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FINAL SITE ASSESSMENT REPORT SITE 4 FLEET LOGISTICS CENTER NAVY FUEL DEPOT WITH TRANSMITTAL NS MAYPORT FL
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June 12, 2013

Project Number 112G03309

Naval Facilities Engineering Command, Southeast
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Reference: CLEAN Contract Number N62470-08-D-1001
Contract Task Order Number JM46

Subject: Final Site Assessment Report for Site 4
Fleet Logistics Center Jacksonville – Navy Fuel Depot, Jacksonville, Florida

Dear Mr. Hayworth:

Tetra Tech is pleased to submit Final Site Assessment Report for Site 4 at the Fleet Logistics Center Jacksonville – Navy Fuel Depot, Jacksonville, Florida, that was prepared for the United States Navy, Naval Facilities Engineering Command Southeast under Contract Task Order (CTO) JM46 for Comprehensive Long-term Environmental Action Navy (CLEAN) Contract Number N62470-08-D-1001.

If you have any questions with regard to this submittal, please do not hesitate to contact me by telephone at (904) 730-4669, extension 220, or via e-mail at Ben.Marshall@TetraTech.com.

Sincerely,

Ben J. Marshall
Project Manager

BJM/lc

Enclosure

c: John Winters, FDEP (electronic only)
Joe Marshall, Fleet Logistics Center (1 hardcopy, 1 CD)
RDM, Tetra Tech (unbound, 1 CD)
Administrative Record (electronic only)
CTO JM46 Project File

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Site Assessment Report
for
Site 4

Fleet Logistics Center Jacksonville – Navy Fuel Depot Jacksonville, Florida

Naval Facilities Engineering Command Southeast

Contract Number N62470-08-D-1001
Contract Task Order JM46

June 2013

Rev. 1
June 2013

SITE ASSESSMENT REPORT
FOR
SITE 4

FLEET LOGISTICS CENTER JACKSONVILLE – NAVY FUEL DEPOT
JACKSONVILLE, FLORIDA

COMPREHENSIVE LONG-TERM
ENVIRONMENTAL ACTION NAVY (CLEAN) CONTRACT

Submitted to:
Naval Facilities Engineering Command Southeast
NAS Jacksonville Building 103
Jacksonville, Florida 32212

Submitted by:
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CONTRACT NUMBER N62470-08-D-1001
CONTRACT TASK ORDER JM46

JUNE 2013

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This Site Assessment Report for Site 4 located at the Fleet Logistics Center Jacksonville – Navy Fuel Depot, Duval County, Florida has been prepared under the direct supervision of a Professional Engineer registered in the State of Florida. The work was performed in accordance with generally accepted professional engineering practices pursuant to Chapter 471 of the Florida Statues. The data, findings, recommendations, specifications or professional opinions were prepared solely for the use of the United States Navy and the Florida Department of Environmental Protection. This document was prepared using information obtained from others. If conditions are determined to exist differently than those described in this document, then the undersigned professional engineer should be notified to evaluate the effects of any additional information on the project described in this document. This Site Assessment Report was developed for Site 4 at the Fleet Logistics Center Jacksonville – Navy Fuel Depot, Jacksonville, Florida and should not be construed to apply to any other site. Tetra Tech, Inc. makes no other warranty, either implied or expressed, and is not responsible for the interpretation by others of these data.

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June 12, 2013
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ACRONYMS

bls	below land surface
CTL	Cleanup Target Level
CTO	Contract Task Order
DPT	direct-push technology
DQO	Data Quality Objective
EDR®	Environmental Data Resource, Inc.
F.A.C.	Florida Administrative Code
FDEP	Florida Department of Environmental Protection
FID	flame ionization detector
FISC	Fleet Industrial Supply Center
FLC	Fleet Logistics Center
FL-PRO	Florida Residual Petroleum Organic
GCTL	Groundwater Cleanup Target Level
GPR	Ground Penetrating Radar
IAS	Initial Assessment Study
IDW	investigation derived waste
mg/kg	milligram per kilogram
NAVSTA	Naval Station
NFA	no further action
PAH	polynuclear aromatic hydrocarbon
Partnering Team	NAVSTA Mayport Installation Restoration Partnering Team
PCB	polychlorinated biphenyl
RMO	Risk Management Option
SAR	Site Assessment Report
SCTL	Soil Cleanup Target Level
SOP	Standard Operating Procedure
SVOC	semivolatile organic compound
TOC	top of casing
TPH	total petroleum hydrocarbon
TRPH	total recoverable petroleum hydrocarbon
UFP-SAP	Unified Federal Policy – Sampling and Analysis Plan
USGS	United States Geological Survey
VOC	volatile organic compound

EXECUTIVE SUMMARY

Tetra Tech, Inc. prepared this Site Assessment Report (SAR) pursuant to Chapter 62-780, Florida Administrative Code to investigate soil and groundwater contamination at Site 4 located at the Fleet Logistics Center (FLC) Jacksonville – Navy Fuel Depot facility in Jacksonville, Florida. This SAR was requested by the Naval Facilities Engineering Command after a sampling event in 2007 indicated soil impacts were present.

SITE 4 BACKGROUND

Site 4 is located in the eastern portion of the FLC facility approximately 125 feet north of the St. Johns River. It was historically referred to as the Burn Kettle and Slurry Burn Pit and is approximately 9,500 square feet (0.2 acre) in size. In the early 1940s when the FLC was undergoing construction, the Site 4 area was part of the St. Johns River and a sandy beach. During the 1940s and 1950s, Site 4 was built up using dredge materials from the St. Johns River, which reportedly consisted primarily of sand with some silt and shell material. Incineration activities at Site 4 started around the mid-1950s and continued into the mid-1960s. Site 4 was used for incineration of trash and various petroleum oils from the 1950s until the mid-1960s using either a burn kettle or a slurry burn pit. In the early 1970s, the disposal activities ceased.

INVESTIGATION METHODS – SOIL AND GROUNDWATER SAMPLING

The site investigation field activities included the collection of soil and groundwater samples in three phases over the period of September 2011 to July 2012. Phase I determined the nature of the contamination, and Phases II and III determined the extent of contamination.

Phase I (September 2011)

Two soil borings were advanced in locations of the suspected source area for contamination for the collection of 23 surface and subsurface samples. Surface and subsurface soil samples were collected above the saturated zone in the following intervals: 0 to 0.5 foot, 0.5 to 2 feet, and 2 to 4 feet, below land surface (bls). The soil samples were analyzed for volatile organic compounds (VOCs), semivolatile organic compounds (SVOCs), Priority Pollutant metals (including barium and tin), polychlorinated biphenyls (PCBs), dioxins/furans, and total petroleum hydrocarbon (TPH).

Groundwater monitoring wells were installed in each soil boring location to depths of 15 feet bls to assess the surficial aquifer quality. Groundwater samples were collected from the monitoring wells (FLC-4-MW01 and FLC-4-MW02) and analyzed for VOCs, SVOCs, metals, PCBs, and TPH.

Phase II (February – March 2012)

To determine the extent of soil impacted by polynuclear aromatic hydrocarbons (PAHs), additional soil borings were placed in a step-out pattern from impacted soil borings and were spaced at 15-foot intervals in the northern-southern direction. Five soil borings were advanced, and eight soil samples were collected from the surface (0 to 2 feet bls) and subsurface (2 to 4 feet bls). An additional monitoring well was installed to assess the downgradient groundwater for potential contamination. A shallow well (15 feet bls) was analyzed for PAH compounds.

Phase III (May – July 2012)

Additional soil borings were advanced since the extent of soil impacts was not defined in Phase II. Four soil borings were advanced at designated grid point locations to collect soil samples, and 12 samples were collected. Soil samples were collected above the water table in the following intervals: 0 to 2, 2 to 3.5, 3 to 4, and 2 to 4 feet bls. The additional samples were collected in the northern and southeastern area of the site and spaced at 15 foot intervals relative to neighboring sample points. No further groundwater assessment was performed in Phase III since the extent of groundwater impacts was determined in Phase II.

INVESTIGATION RESULTS – SOIL AND GROUNDWATER

Site Geology and Hydrogeology

Surface soils and subsurface soils (0 to 6 foot bls) consist of fine to medium grained sands impacted with dark weathered petroleum. Deeper subsurface soil (6 to 15 feet bls) consists primarily of white and grey sand with minor fractions of silts and no indication of impacts by petroleum contamination.

In general, the surficial or upper aquifer ranges from 10 to 90 feet in thickness and contains unconsolidated sediments that include clay, silt, sands, shelly sands, and shell beds (Fred C. Hart Associates, Inc., 1983). Generally, groundwater in the surficial aquifer flows from high topography to low topography and toward the St. Johns River. The water table at Site 4 was encountered at 4 to 6 feet bls during the investigations and relative groundwater levels indicate groundwater flow moves south-southeast toward the St. Johns River. The average hydraulic gradient was calculated to be 0.015 foot per foot and the groundwater velocity across the site is approximately 0.3 foot per day or 100 feet per year. This horizontal gradient partially reflects the general topographic features of the site, which are flat and without any defining ridges or coastal dunes.

Phase I (September 2011)

The nature of contamination in the soil was determined in Phase I and is limited to PAH compounds. Analysis of soil samples revealed the presence of PAH contamination exceeded the residential Florida

Department of Environmental Protection (FDEP) Soil Cleanup Target Levels (SCTLs) in the boring location FLC-4-SB02.

Groundwater sampling results showed no groundwater contamination exceeding the allowable FDEP Groundwater Cleanup Target Level in monitoring well FLC-4-MW01 or FLC-4-MW02.

Phase II (February – March 2012)

Analysis of soil samples revealed the presence of PAH impact exceeding the residential SCTL in 6 boring locations in surface and subsurface samples. Samples that exceeded the SCTL were at the 0 to 0.5, 0 to 2, and 2 to 4 feet bls intervals and spread over northern and eastern area of Site 4. The horizontal and vertical extent of soil impacts were defined along the northwestern and southern areas of Site 4. However, the extent of soil impacts was not defined in the northern and eastern area of Site 4; therefore, Phase III soil sampling was conducted.

Phase III (May – July 2012)

Analysis of soil samples revealed the extent of soils impacted by PAH compounds was defined in the northern and eastern areas of Site 4.

CONCLUSIONS AND RECOMMENDATIONS

The site assessment determined that soils exceed the FDEP residential SCTLs for PAHs. The estimated area of soil impacted with PAHs is approximately 2,800 square feet or 275 tons.

Tetra Tech recommends preparing a risk assessment and/or Remedial Action Plan to explore remedial options.

1.0 INTRODUCTION

Tetra Tech, Inc. was awarded a contract by the United States Navy, Naval Facilities Engineering Command to conduct a site assessment for Site 4 located at the and Fleet Logistics Center (FLC) Jacksonville – Navy Fuel Depot in Jacksonville, Florida. Tasks under the contract include developing the Unified Federal Policy – Sampling and Analysis Plan (UFP-SAP), conducting a field investigation by collecting site data, and preparing a Site Assessment Report (SAR) following Chapter 62-780.600, Florida Administrative Code (F.A.C.). These tasks were conducted pursuant to the Comprehensive Long-term Environmental Action Navy Contract Number N62470-08-D-1001, Contract Task Order (CTO) JM46.

1.1 PURPOSE AND SCOPE OF THE SITE ASSESSMENT

The purpose of this site assessment was to characterize the nature and extent of soil and groundwater contamination associated with Site 4 and interpret the data to determine if remediation activities are necessary based upon the potential risk to human health and the environment. A site assessment was requested because historical activities and confirmatory sampling at Site 4 indicated there were impacts to soil and possibly to groundwater.

The scope and Data Quality Objectives (DQOs) for the investigation was presented in the February 2011 Naval Station (NAVSTA) Mayport Installation Restoration Partnering Team (Partnering Team) meeting and were finalized after the Partnering Team reached agreement. The scope included the preparation of a UFP-SAP and SAR. The UFP-SAP (Tetra Tech, 2011) provided the blue-print for the site investigation. The UFP-SAP includes information for the project team, subcontractors, sample strategy, field procedures and Standard Operating Procedures (SOPs), laboratory testing requirements, and quality control protocols. The Partnering Team also agreed that the SAR would be prepared following Chapter 62-780, F.A.C., guidelines. A copy of the February 2011 Partnering Team meeting presentation is provided in Appendix A.

1.2 REPORT ORGANIZATION

This report is divided into the following the following four sections:

<u>1.0 INTRODUCTION</u>

Presents the historical background for the facility and Site 4 and provides a summary of the historical site assessment activities at Site 4.

2.0 SITE SUBSURFACE INVESTIGATION METHODS

Summarizes the field investigation activities conducted for the soil and groundwater sampling. An overview of the sampling methodology, quality control protocols, and standard field procedures is provided. Information is provided regarding a potable well search in the vicinity and disposal of investigation derived waste (IDW).

3.0 INVESTIGATION RESULTS

Presents information on the site geology, groundwater flow direction, and site hydrogeology. A summary of the soil and groundwater analytical results collected during the site assessment is provided.

4.0 SITE 4 CONCLUSIONS AND RECOMMENDATIONS

Presents a summary of the impacts affecting the soil. Remedial options are discussed to minimize the potential risks to human health and the environment.

1.3 HISTORICAL INFORMATION

Construction of the FLC facility began in the 1940s after the start of World War II to provide fuel storage for Navy aircraft and ships. Today, the facility continues to provide fuel services. Historical details of the facility and Site 4 and previous assessment activity at Site 4 is provided in this section.

1.3.1 Facility Background

The facility is currently referred to as the “Fleet Logistics Center Jacksonville – Navy Fuel Depot” and was formerly called the Fleet Industrial Supply Center (FISC) Navy Fuel Depot. The FLC is located within the corporate limits of the City of Jacksonville, Duval County, Florida and was constructed in the 1940s. The facility houses several large aboveground fuel storage tanks and currently provides fuel support to Naval Air Station Jacksonville and NAVSTA Mayport. It is situated approximately 7 miles north of downtown Jacksonville and 1 mile east of the intersection of Interstate 95 and State Highway 105. The facility consists of 150 acres of government-owned land and 30 acres on permanent easement. It is bordered on the southern and eastern property lines by the St. Johns River, to the north by the Marine Reserve Facility and a recycling facility, and to the west by a commercial storage facility. The FLC property has undergone several changes in management and facility upgrades since opening. From the 1950s through 1970s, disposal of various wastes at the facility occurred by dumping into waste pits and were occasionally burned in a kettle at Site 4. A Facility Location Map of the FLC is provided as Figure 1-1.

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FACILITY LOCATION MAP
FLEET LOGISTICS CENTER JACKSONVILLE - NAVY FUEL DEPOT
JACKSONVILLE, FLORIDA

CONTRACT NUMBER	CTO NUMBER
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FIGURE NO. 1 - 1	REV 0

1.3.2 Site Background

Site 4 is historically known as the Slurry Burn Pit and Burn Kettle Area. It is located in the southeastern portion of the FLC and is approximately 9,500 square feet (0.2 acre). The St. Johns River is located approximately 125 feet to the south and east of the site. The site is bordered by wooded area to the east, west, and north. In the early 1940s when the FLC was undergoing construction, the area of Site 4 was part of a sandy inlet of the St. Johns River. A historical aerial photograph from 1943 of the Site 4 area is provided in Figure 1-2A and depicts the site as part of the St. Johns River. During the 1940s and 1950s, the area of Site 4 was built up using dredge materials consisting primarily of sand from the St. Johns River. A historical aerial photograph from 1952 of the Site 4 area is provided in Figure 1-2B and depicts the build-up the dredging material.

Site activities included the incineration of trash and burning of off-grade petroleum products in the steel kettle and slurry burn pit. Station-generated trash was also routinely burned in the burn kettle from approximately 1965 to 1967, when its use was discontinued. The burn kettle remained onsite until it was removed in 2010. The underground pipe that fed the burn kettle was left in place after removal of the burn kettle. The abandoned pipe is made of steel, is 4 inches in diameter, and is 1.5 feet below land surface (bls). It runs south approximately 82 feet toward the fence line and surfaces just on the other side of the fence. A historical aerial photograph from 1969, which depicts the area of Site 4, is provided in Figure 1-2C and generally shows the site as it appears today. The 2008 aerial photograph of Site 4 is provided in Figure 1-3.

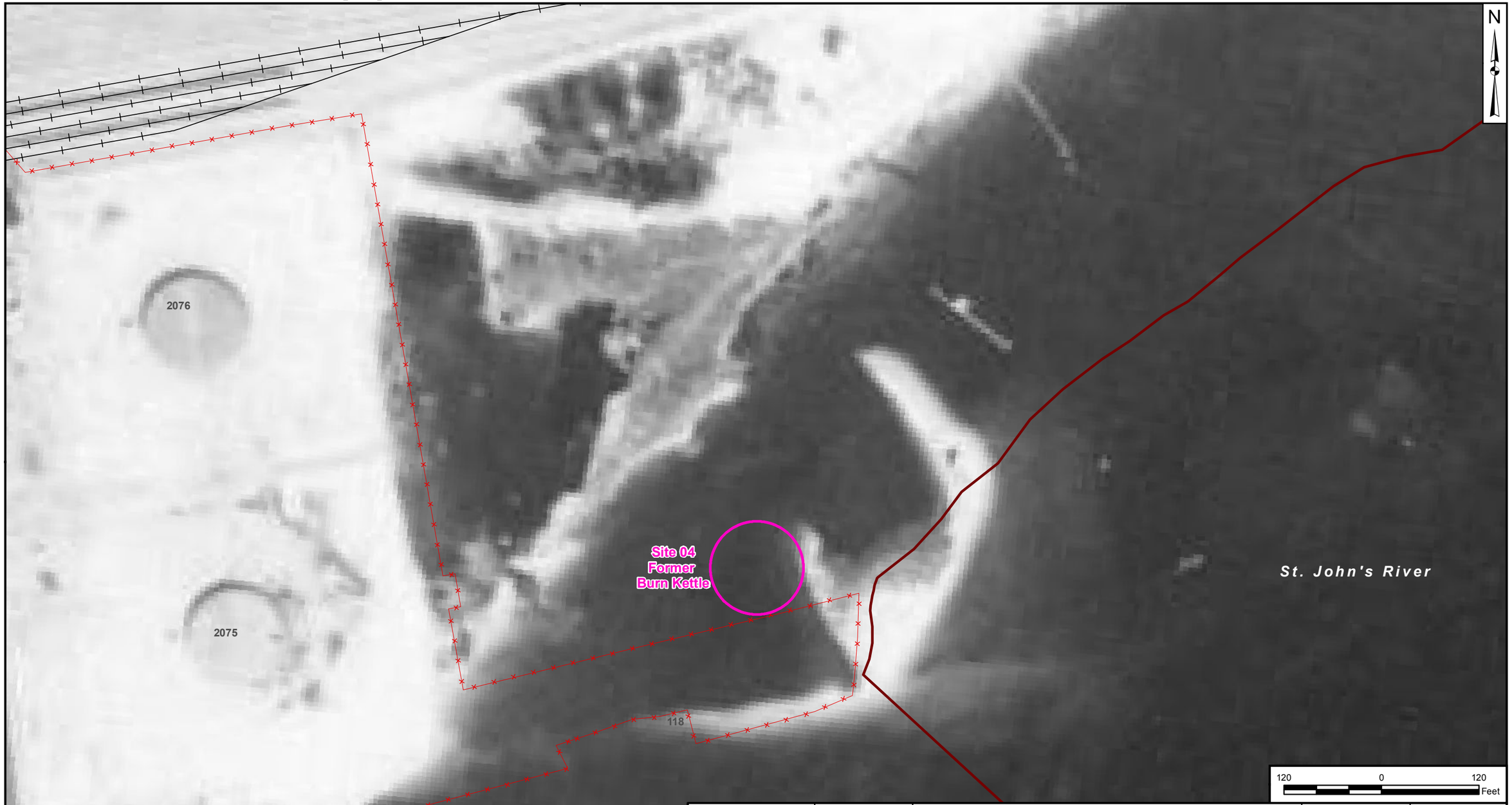
1.4 PREVIOUS SITE 4 INVESTIGATIONS

Previous investigations at Site 4 include the Initial Assessment Survey (IAS) in 1983 and the Limited Site Investigation in 2007. The IAS included a review of available files on the facility sites and interviews to examine the site history, and the study recommended no further sampling at Site 4. However, the 2007 assessment revealed soil impacts. More details on these investigations follow.

Initial Assessment Study – March 1983

An IAS (Fred C. Hart Associates, Inc., 1983) was conducted at the FLC (formerly FISC) in 1983. The IAS included record searches and interviews that identified five sites that were potentially contaminated, including Site 4. Site characteristics reported include physical features, disposal activities, land use, biological features, and general site history.

JAX M:\GIS\PROJECTS\JAX FLEET LOGISTICS CENTER\MXD\SITE 4 FIGURES\FIG 1-2A _AERIAL_1943.MXD 03/12/13 JM



Legend

- Fence Line
- Railroad
- Installation Area
- Site Boundary

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SITE HISTORICAL AERIAL (1943)
FLEET LOGISTICS CENTER JACKSONVILLE - NAVY FUEL DEPOT
JACKSONVILLE, FLORIDA

CONTRACT NUMBER	CTO NUMBER
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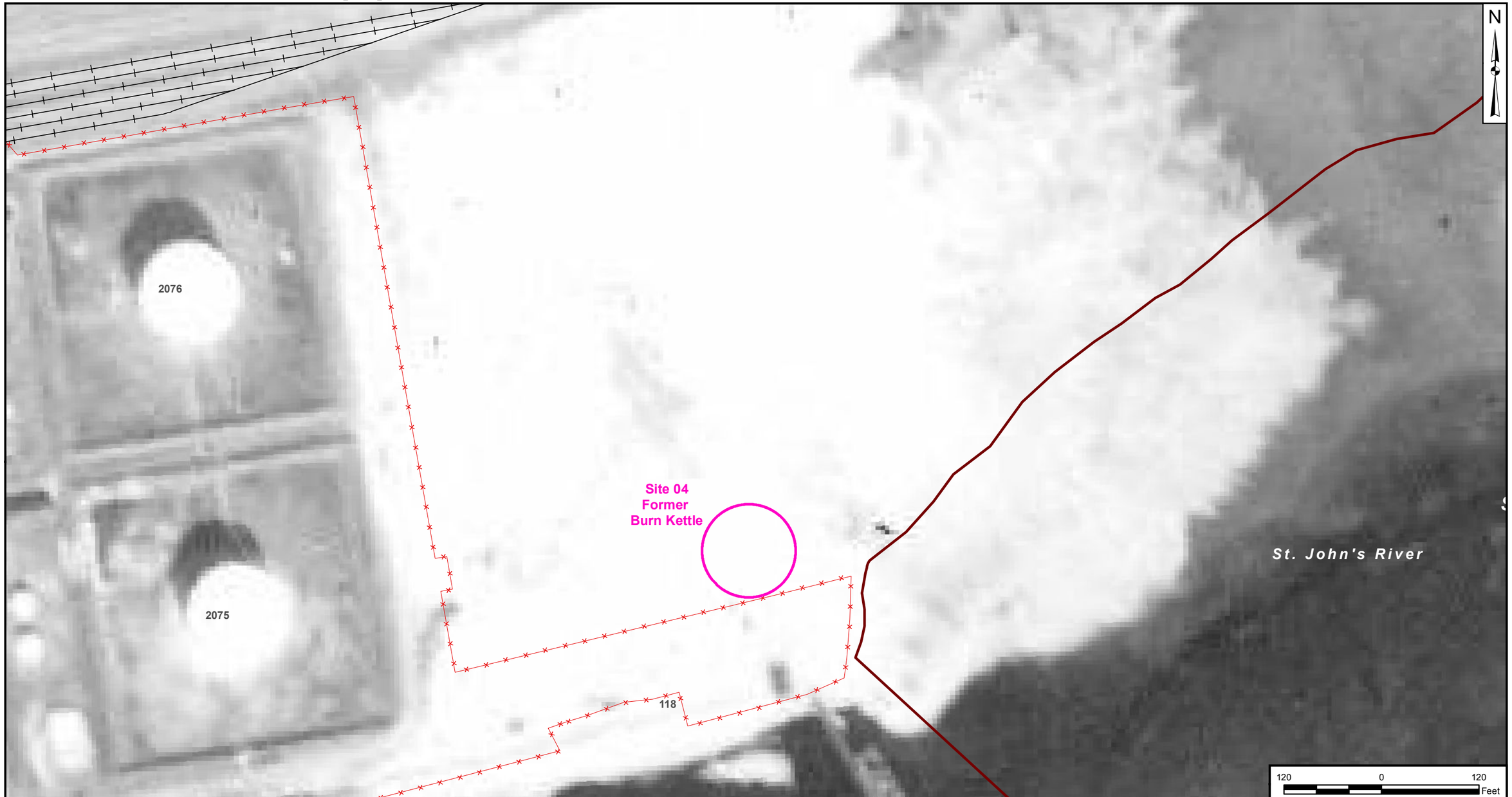
FIGURE NO. 1-2A	REV 0

JAX M:\GIS\PROJECTS\JAX FLEET LOGISTICS CENTER\MXD\SITE 4 FIGURES\FIG 1-2B _AERIAL_1952.MXD 03/12/13 JM



Legend

- Fence Line
- Railroad
- Installation Area
- Site Boundary

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SITE HISTORICAL AERIAL (1952)
FLEET LOGISTICS CENTER JACKSONVILLE - NAVY FUEL DEPOT
JACKSONVILLE, FLORIDA

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FIGURE NO. 1-2B	REV 0

JAX M:\GIS\PROJECTS\JAX FLEET LOGISTICS CENTER\MXD\SITE 4 FIGURES\FIG 1-2C _AERIAL_1969.MXD 01/30/13 JM

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SITE HISTORICAL AERIAL (1969)
FLEET LOGISTICS CENTER JACKSONVILLE - NAVY FUEL DEPOT
JACKSONVILLE, FLORIDA

CONTRACT NUMBER	CTO NUMBER
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APPROVED BY	DATE
FIGURE NO. 1-2C	REV 0

JAX M:\GIS\PROJECTS\JAX FLEET LOGISTICS CENTER\MXD\SITE 4 FIGURES\FIG 1-3 SITE MAP.MXD 03/12/13 JM

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SITE AERIAL MAP
FLEET LOGISTICS CENTER JACKSONVILLE - NAVY FUEL DEPOT
JACKSONVILLE, FLORIDA

CONTRACT NUMBER	CTO NUMBER
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FIGURE NO. 1 - 3	REV 0

According to the IAS, the slurry pit was excavated and all bottom sludge, rust, and wash water generated by tank cleaning was pumped into the pit. Occasionally, off-grade petroleum products were disposed of and burned in the pit. Station-generated trash was also disposed of at this site and routinely burned in the burn kettle. This practice was reportedly conducted from 1965 to 1967. Approximately 336,000 gallons of Navy special fuel and water from off-grade petroleum products; 840 gallons of tetraethyl lead-contaminated sludge and rust from aviation gasoline storage tanks; and an unknown quantity of trash, cans, paper, etc. from the Navy Fuel Depot were disposed of at Site 4. The slurry and burn pit was approximately 30 feet wide by 50 feet long. Although a visual inspection revealed disturbed ground and the burn kettle, there was no apparent evidence of waste oil, sludge, trash, or hazardous materials at the site; therefore, a Confirmation Study was not recommended.

Limited Site Investigation – June 2007

A limited investigation was conducted by Tetra Tech in 2007 that included the collection of soil samples adjacent to the burn kettle at Site 4 for analysis of total recoverable petroleum hydrocarbons (TRPH). Field personnel observed tar like impacts over parts of the land surface in the vicinity of the burn kettle, indicating that a release had occurred. Soil was screened from four boring locations from 0 to 6 inches and at 2 feet bls with a flame ionization detector (FID) surrounding the kettle. The FID readings did not indicate the presence of impacts in the soils. Analytical results for two of the soil samples reported concentrations of TRPH at 3,860 milligrams per kilogram (mg/kg) and 6,610 mg/kg exceeding the Florida Department of Environmental Protection (FDEP) Residential Soil Cleanup Target Level (SCTL) of 460 mg/kg. Additional assessment of the site was recommended to determine the extent of impacts.

2.0 SITE SUBSURFACE INVESTIGATION METHODS

This section documents the field work performed at Site 4 during the site assessment activities. Analytical results of the investigation are presented in Section 3.0. The field work followed the approved UFP-SAP and was performed in three phases within the FLC property boundary (Tetra Tech, 2011). Phase I was conducted in September 2011; however, the impacted soil boundary was not determined. The Phase II activities were conducted between February and May 2012 to collect additional soil samples and a downgradient groundwater sample; however, the extent of soil impacts was not determined. No groundwater impacts were identified in the Phase I and Phase II sampling events. Phase III soil sampling activities were conducted in June 2012, which identified the soil impact boundary.

2.1 ASSESSMENT AREA

Visual inspection of the ground surface next to the former burn kettle at Site 4 revealed sparse tar-like material mixed with surficial sand. The site boundary was estimated to resemble the shape of a circle and is approximately 9,500 square feet (0.2 acre) in size. During Phases II and III, the assessment area extended beyond the original site boundary in the areas to the northwest and southwest, but remained within the FLC property. A site reconnaissance did not locate the former slurry burn pit; therefore, an assessment of the pit was not included in this SAR. Ground Penetrating Radar (GPR) was used to determine the location of the buried feed pipe formerly connected to the burn kettle. The pipe is underground and runs south from the burn kettle to the fence line. Assessment of soil adjacent to the pipe was conducted in Phase II.

2.2 FIELD INVESTIGATIONS

The field investigation methodology and analytical testing plan was presented to the Partnering Team (which included the Installation Restoration Manager for the FLC) in the DQO meeting in February 2011 after which the Partnering Team agreed on the DQOs and the proposed site assessment strategy. The field investigation methodology and analytical testing plan was formally presented in the UFP-SAP (Tetra Tech, 2011) and was accepted by the Partnering Team. The UFP-SAP specified the site assessment strategy, regulatory and quality control requirements, and the field and laboratory SOPs. The site assessment strategy was to be conducted in three phases. Phase I would determine of the nature of soil and groundwater contamination by sampling the suspected source areas of contamination. Phase II would conduct additional sampling as necessary to determine the extent of the contamination within the property boundary of the FLC, and Phase III would address any data gaps. The details for Phase I, Phase II, and Phase III are provided below. A copy of the February 2011 Partnering Team meeting presentation is provided in Appendix A.

2.2.1 Phase I Activities

The scope of the Phase I site assessment activities included the collection of soil and groundwater samples from two locations on the eastern and western sides of the former burn kettle location. Soil and groundwater samples were analyzed for a broad spectrum of potential contaminants since historical activities at Site 4 included the disposal of various types of trash and petroleum-based fuels. GPR was used to determine the location of the buried feed pipe formerly connected to the burn kettle. Assessment of soil adjacent to the pipe was conducted in Phase II.

2.2.1.1 Soil Assessment

Two soil borings (FLC-4-SB01 and FLC-4-SB02) were advanced on the eastern and western sides of the former burn kettle location to collect surface and subsurface samples on September 22, 2011. Surface and subsurface soil samples were collected above the saturated zone in the 0 to 0.5, 0.5 to 2, and 2 to 4 feet bls intervals. Composite soil samples were made of the surface and subsurface samples from the two borings in the 0 to 0.5, 0.5 to 2, and 2 to 4 feet bls intervals. Nine soil samples and quality control samples were collected. The soil sampling locations are shown on Figure 2-1.

Each of the soil sample boreholes were advanced using a stainless steel hand auger with dedicated stainless steel buckets. Soil from each boring and sample interval was mixed in dedicated stainless steel bowls before placement into sample jars. Surficial soil samples were designated with the “FLC-4-SS” prefix in the sample identification and subsurface soil samples with the “FLC-4-SB” prefix. The composite soil samples collected for dioxin/furan analysis were designated with the “FLC-4-SSC” prefix in the sample identification. Decontamination of boring equipment was performed between each sampling location in general accordance with FDEP SOP FC 1000, Cleaning/Decontamination Procedures (FDEP, 2004). Sample collection was conducted in general accordance with FDEP SOP FS 3000 (FDEP, 2008) as stated in the UFP-SAP.

Soil samples were placed in laboratory-provided containers, sealed, labeled, packed in ice, and shipped in coolers under chain-of-custody protocol to a fixed-base laboratory. Laboratory personnel checked in and inspected each sample for integrity prior to analysis. Samples were analyzed for volatile organic compounds (VOCs), semivolatile organic compounds (SVOCs) (including polynuclear aromatic hydrocarbons [PAHs]), polychlorinated biphenyls (PCBs), metals (antimony, arsenic, barium, beryllium, cadmium, chromium, copper, lead, mercury, nickel, selenium, silver, thallium, tin, and zinc), and TRPH (using the Florida Residual Petroleum Range Organic [FL-PRO] method). The composite soil samples made from each boring location were analyzed for dioxins/furans.

JAX M:\GIS\PROJECTS\JAX FLEET LOGISTICS CENTER\MXD\SITE 4 FIGURES\FIGURE_2-1A_SOIL_LOCS_I.MXD 03/12/13 JM

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B. MARSHALL	03/12/13
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SOIL SAMPLE LOCATIONS
PHASE I
FLEET LOGISTICS CENTER JACKSONVILLE - NAVY FUEL DEPOT
JACKSONVILLE, FLORIDA

CONTRACT NUMBER	CTO NUMBER
APPROVED BY	DATE
APPROVED BY	DATE
FIGURE NO. 2-1	REV 0

A list of the soil samples and the associated analysis is presented in Table 2-1. Soil Sampling Log Sheets are provided in Appendix B, and field notes are provided in Appendix C.

FID readings were collected at each soil boring interval to determine if a correlation existed between impacted soil and high FID readings. Comparison of the FID readings with the analytical results showed that soils exceeding SCTLs did not have elevated FID readings when compared with soils not exceeding the SCTLs. Hence, the FID instrument did not indicate if a soil sample was potentially impacted exceeding SCTLs. This result was expected since historical analytical results did not show high concentrations of VOCs in the samples. Since the FID readings did not indicate if impacted soils were present, Tetra Tech proposed that FID readings were not necessary in the January 2012 Partnering Team meeting. The Partnering Team agreed that FID readings were not helpful in identifying impacted soils and use of the FID to screen soil samples was not continued. The FID readings collected during Phase I are recorded on the soil sample log sheets in Appendix B.

2.2.1.2 Groundwater Assessment

Two shallow groundwater monitoring wells (FLC-4-MW01 and FLC-4-MW02) were installed at each of the soil sample locations (FLC-4-SB01 and FLC-4-SB02) on September 27, 2011. The wells were installed by a licensed driller utilizing direct-push technology (DPT) to depths of approximately 15 feet bls and screened from 3 to 15 feet bls. Each monitoring well was equipped with a stickup casing and protective bollards and developed using a peristaltic pump. Well locations were designated with the “FLC-4-MW” prefix in the identification. The monitoring well locations are shown in Figure 2-2. Well construction diagrams and completion logs for the monitoring wells are included in Appendix B, and field notes are provided in Appendix C.

Groundwater samples were collected on September 29, 2011. Prior to groundwater sample collection, the monitoring wells were purged to obtain samples representative of actual aquifer conditions using low-flow purging techniques (typically a rate of less than 1 liter per minute). Groundwater samples were designated with the “FLC-4-MW” prefix in the identification. Each well was sampled with a peristaltic pump and using dedicated Teflon™ tubing. Filtered groundwater samples were also collected using a 0.45 micron filter to investigate the effect of turbidity (suspended solids) on the concentration of metals. Field parameters recorded on the groundwater sampling logs during sample collection included the depth to water, pH, temperature, conductivity, dissolved oxygen, turbidity, color, and odor. Quality control samples were also collected. Sample collection was conducted in general accordance with FDEP SOP FS 3000 (FDEP, 2008) as stated in the UFP-SAP. Decontamination of field equipment was performed between each sampling location in general accordance with FDEP SOP FC 1000, Cleaning/Decontamination Procedures (FDEP, 2004).

TABLE 2-1

SOIL SAMPLE IDENTIFICATION
SITE 4 SAR
FLEET LOGISTICS CENTER JACKSONVILLE - NAVY FUEL DEPOT
JACKSONVILLE, FLORIDA
PAGE 1 OF 2

Sample Location	Sample Identification	Sample Date	Sample Depth Interval (feet bls)		Metals	Dioxins/Furans	SVOCs	VOCs	PAHs	PCBs	TPH
		SOIL									
FLC-4-SB01	FLC-4-SB01-0204-092211	20110922	2	4	✓		✓	✓	✓	✓	✓
FLC-4-SB01	FLC-4-SS01-0006-092211	20110922	0	0.5	✓		✓	✓	✓	✓	✓
FLC-4-SB01	FLC-4-SS01-0624-092211	20110922	0.5	2	✓		✓	✓	✓	✓	✓
FLC-4-SB02	FLC-4-SB02-0204-092211	20110922	2	4	✓		✓	✓	✓	✓	✓
FLC-4-SB02	FLC-4-SS02-0006-092211	20110922	0	0.5	✓		✓	✓	✓	✓	✓
FLC-4-SB02	FLC-4-SS02-0624-092211	20110922	0.5	2	✓		✓	✓	✓	✓	✓
FLC-4-SSC	FLC-4-SSC-0006-092211	20110922	0	0.5		✓					
FLC-4-SSC	FLC-4-SSC-0624-092211	20110922	0.5	2		✓					
FLC-4-SBC	FLC-4-SBC-0204-092211	20110922	2	4		✓					
FLC-4-P01	FLC-4-PO1-0204-022112	20120221	2	4					✓		
FLC-4-P01	FLC-4-PO1-0204-022112-D	20120221	2	4					✓		
FLC-4-P01	FLC-4-PO1-0624-022112	20120221	0.5	2					✓		
FLC-4-P02	FLC-4-PO2-0204-022112	20120221	2	4					✓		
FLC-4-P02	FLC-4-PO2-0624-022112	20120221	0.5	2					✓		
FLC-4-P03	FLC-4-PO3-0204-022112	20120221	2	4					✓		
FLC-4-P03	FLC-4-PO3-0624-022112	20120221	0.5	2					✓		
FLC-4-P04	FLC-4-PO4-0204-022112	20120221	2	4					✓		
FLC-4-P04	FLC-4-PO4-0624-022112	20120221	0.5	2					✓		
FLC-4-P06	FLC-4-PO6-0204-022112	20120221	2	4					✓		
FLC-4-P06	FLC-4-PO6-0204-022112-D	20120221	2	4					✓		
FLC-4-P06	FLC-4-PO6-0624-022112	20120221	0.5	2					✓		
FLC-4-P07	FLC-4-PO7-0204-022112	20120221	2	4					✓		
FLC-4-P07	FLC-4-PO7-0624-022112	20120221	0.5	2					✓		
FLC-4-P08	FLC-4-PO8-0204-022112	20120221	2	4					✓		
FLC-4-P08	FLC-4-PO8-0624-022112	20120221	0.5	2					✓		
FLC-4-P09	FLC-4-PO9-0006-022112	20120221	0	0.5					✓		
FLC-4-P09	FLC-4-PO9-0204-022112	20120221	2	4					✓		
FLC-4-P09	FLC-4-PO9-0624-022112	20120221	0.5	2					✓		
FLC-4-SS03	FLC-4-SS03-0006-022112	20120221	0	0.5					✓		
FLC-4-SS04	FLC-4-SS04-0006-022112	20120221	0	0.5					✓		
FLC-4-SS04	FLC-4-SS04-0006-022112-D	20120221	0	0.5					✓		

TABLE 2-1

SOIL SAMPLE IDENTIFICATION
SITE 4 SAR
FLEET LOGISTICS CENTER JACKSONVILLE - NAVY FUEL DEPOT
JACKSONVILLE, FLORIDA
PAGE 2 OF 2

Sample Location	Sample Identification	Sample Date	Sample Depth Interval (feet bls)		Metals	Dioxins/Furans	SVOCs	VOCs	PAHs	PCBs	TPH
			SOIL								
FLC-4-SB05	FLC-4-SB05-0006-042612	20120426	0	0.5					✓		
FLC-4-SB06	FLC-4-SB06-0006-042612	20120426	0	0.5					✓		
FLC-4-SB07	FLC-4-SB07-0006-042612	20120426	0	0.5					✓		
FLC-4-SB08	FLC-4-SB08-0006-042612	20120426	0	0.5					✓		
FLC-4-SB08	FLC-4-SB08-0006-042612-D	20120426	0	0.5					✓		
FLC-4-SB09	FLC-4-SB09-0024-042612	20120426	0	2					✓		
FLC-4-SB09	FLC-4-SB09-0204-042612	20120426	2	4					✓		
FLC-4-SB10	FLC-4-SB10-0006-061212	20120612	0	0.5					✓		
FLC-4-SB11	FLC-4-SB11-0006-061212	20120612	0	0.5					✓		
FLC-4-SB12	FLC-4-SB12-0006-061212	20120612	0	0.5					✓		
FLC-4-SB13	FLC-4-SB13-0024-061212	20120612	0	2					✓		
FLC-4-SB13	FLC-4-SB13-0203-061212	20120612	2	3					✓		
FLC-4-SB14	FLC-4-SB14-0024-061212	20120612	0	2					✓		
FLC-4-SB14	FLC-4-SB14-0203-061212	20120612	2	3					✓		

Notes:
✓ indicates sample was analyzed for the target analyte group.

An empty cell indicates the sample was not analyzed for the target analyte group.
SS refers to surface sample and SB refers to samples collected below 0.5 foot interval.
D - denotes duplicate sample
For clarity, corresponding report figures refer to each sample location using SB.

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SOIL SAMPLE LOCATIONS
PHASE I, II
FLEET LOGISTICS CENTER JACKSONVILLE - NAVY FUEL DEPOT
JACKSONVILLE, FLORIDA

CONTRACT NUMBER	CTO NUMBER
APPROVED BY	DATE
APPROVED BY	DATE
FIGURE NO. 2-2	REV 0

The groundwater samples were placed in laboratory-provided containers, sealed, labeled, packed in ice, and shipped in coolers under chain-of-custody protocol to a fixed-base laboratory. Laboratory personnel checked in and inspected each sample for integrity prior to analysis. The samples were analyzed for VOCs, SVOCs (including PAHs), PCBs, metals (antimony, arsenic, barium, beryllium, cadmium, chromium, copper, lead, mercury, nickel, selenium, silver, thallium, tin, and zinc), and TRPH (using the FL-PRO method). Groundwater sampling logs are provided in Appendix B.

2.2.2 Phase II Activities

Phase II activities were required since the extent of soil impacts was not determined during Phase I activities. Although groundwater samples did not show any exceedance of Groundwater Target Cleanup Levels (GCTLs), the Partnering Team agreed to replace the existing shallow monitoring well MW-NFD1 since it was downgradient and could not be sampled during Phase I due to its condition and shallow depth (8 feet bls). The Partnering Team decided to move the location of the well near the end of the former feed pipe to the kettle. The plan to collect additional soil samples was presented in the January 2012 Partnering Team meeting and included additional soil borings to determine the extent of soil impacts. To assess the subsurface geology the monitoring well boring logs were examined for lithology. The site geology is discussed in Section 3.1. A copy of the January 2012 Partnering Team presentation is provided in Appendix A.

2.2.2.1 Soil Assessment

Eleven soil sample borings were advanced at Site 4 to the east and northwest and adjacent to the underground feed pipe on February 21, 2012. Soil borings FLC-4-SB03 and FLC-4-SSB04 were sampled in the 0 to 0.5 foot bls interval. Nine soil borings (FLC-4-P01 through FLC-4-P09) were advanced adjacent to the pipe to collect surface and subsurface samples in the 0 to 0.5, 0.5 to 2, and 2 to 4 feet bls intervals. On April 26, 2012, soil borings FLC-4-SB05 through FLC-4-SB09 were advanced to collect surface and subsurface samples in the northern, eastern, and southern area of the former burn kettle. Surface soil samples were collected to the north and east, and subsurface samples were collected from the area of pipe sample FLC-4-SB09. Twenty-five soil samples were collected during the Phase II field activities. Quality control samples were collected during each sampling event. The soil sampling location with the Phase I samples are presented on Figure 2-3. The prefix FLC-4 was not included on the figure for clarity.

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SOIL SAMPLE LOCATIONS
PHASE I, II, III
FLEET LOGISTICS CENTER JACKSONVILLE - NAVY FUEL DEPOT
JACKSONVILLE, FLORIDA

CONTRACT NUMBER	CTO NUMBER
APPROVED BY	DATE
APPROVED BY	DATE
FIGURE NO. 2-3	REV 0

Each of the soil sample boreholes were advanced using a stainless steel hand auger with stainless steel buckets. Soil from each boring and sample interval was mixed in stainless steel bowls before placement into sample jars. Soil samples from the 0 to 0.5-foot interval collected in February were designated with the "FLC-4-SS" prefix in the sample identification, and samples collected in April with the "FLC-4-SB" prefix. The soil samples collected next to the buried pipe were designated with the "FLC-4-P" prefix.

Decontamination of field equipment was performed between each sampling location in general accordance with FDEP SOP FC 1000, Cleaning/Decontamination Procedures (FDEP, 2004). Sample collection was conducted in general accordance with FDEP SOP FS 3000 (FDEP, 2008) as stated in the UFP-SAP.

Soil samples were placed in laboratory-provided containers, sealed, labeled, packed in ice, and shipped in coolers under chain-of-custody protocol to a fixed-base laboratory. Laboratory personnel checked in and inspected each sample for integrity prior to analysis. Samples were analyzed for PAHs. A list of the soil samples and the associated analysis is presented in Table 2-1. Soil sampling log sheets are provided in Appendix B, and field notes provided in Appendix C.

2.2.2.2 Groundwater Assessment

Phase I groundwater sampling activities did not reveal any impacts exceeding FDEP GCTLs. However, the previously installed shallow well (MW-NFD1) was replaced since it was located in a downgradient area and could not be sampled due to its shallow depth (8 feet bls). The replacement well was installed by a licensed driller utilizing DPT to a depth of approximately 15 feet bls on April 25, 2012. The well was screened from 5 to 10 feet bls and developed using a peristaltic pump. It was renamed as FLC-4-MW-NFD1R and was equipped with a stickup casing and protective bollards. The monitoring well location is shown in Figure 2-2. Well construction diagrams and completion logs for the monitoring wells are included in Appendix B, and field notes are provided in Appendix C.

A groundwater sample was collected from the newly installed monitoring well (FLC-4-MW-NFD1R) on May 11, 2012. Prior to groundwater sample collection, the monitoring wells were purged using low-flow purging techniques (typically a rate of less than 1 liter per minute) to obtain samples representative of actual aquifer conditions. Groundwater samples were designated with the "FLC-4-MW" prefix in the identification. Each well was sampled with a peristaltic pump and using dedicated Teflon™ tubing. Field parameters recorded on the groundwater sampling logs during sample collection included the depth to water, pH, temperature, conductivity, dissolved oxygen, turbidity, color, and odor. Quality control samples were also collected. Sample collection was conducted in general accordance with FDEP SOP FS 3000 (FDEP, 2008) as stated in the UFP-SAP. Decontamination of field equipment was performed between

each sampling location in general accordance with FDEP SOP FC 1000, Cleaning/Decontamination Procedures (FDEP, 2004).

The groundwater samples were placed in laboratory-provided containers, sealed, labeled, packed in ice, and shipped in coolers under chain-of-custody protocol to a fixed-base laboratory. Laboratory personnel checked in and inspected each sample for integrity prior to analysis. Groundwater samples were analyzed for PAH compounds. A list of the groundwater samples and the associated analysis is presented in Table 2-2. Groundwater sampling logs are provided in Appendix B.

TABLE 2-2

GROUNDWATER SAMPLE IDENTIFICATION
SITE 4 SAR
FLEET LOGISTICS CENTER JACKSONVILLE – NAVY FUEL DEPOT
JACKSONVILLE, FLORIDA

Sample Location	Sample Identification	Sample Date	Screen Depth Interval (feet bls)	Metals	SVOCs	VOCs	PAHs	PCBs	TPH
GROUNDWATER									
FLC-4-MW01	FLC-4-MW01-092911	9/29/2011	3-15	✔	✔	✔	✔	✔	✔
FLC-4-MW02	FLC-4-MW02-092911	9/29/2011	3-15	✔	✔	✔	✔	✔	✔
FLC-4-MW-NFD1R	FLC-4-MW-NFD1R-20120511	5/11/2012	5-15				✔		

Notes:

✔ indicates sample was analyzed for the target analyte group.
An empty cell indicates the sample was not analyzed for the target analyte group.

2.2.3 Phase III Activities

Phase III activities were conducted since the extent of soil impacted by PAH compounds was not determined during Phase II activities. The Phase III activities were conducted in one sampling event, after which the extent of soil impacts was determined both horizontally and vertically. The soil sample plans were approved in the May 2012 Partnering Team meeting.

2.2.3.1 Soil Assessment

Five soil borings (FLC-4-SB10 through FLC-4-SB14) were advanced at Site 4 to the northern, eastern, and southern areas on June 12, 2012. Soil samples were collected from the 0 to 0.5, 0 to 2, and 2 to 3 feet bls intervals. Seven soil samples were collected during the Phase III field activities. The soil sampling locations are presented on Figure 2-4 with the Phase I and Phase II samples.

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MONITORING WELL LOCATIONS
PHASE I, II
FLEET LOGISTICS CENTER JACKSONVILLE - NAVY FUEL DEPOT
JACKSONVILLE, FLORIDA

CONTRACT NUMBER	CTO NUMBER
APPROVED BY	DATE
APPROVED BY	DATE
FIGURE NO. 2-4	REV 0

Each of the soil sample boreholes were advanced using a stainless steel hand auger with stainless steel buckets. Soil from each boring and sample interval was mixed in stainless steel bowls before placement into sample jars. Soil samples were designated with the "FLC-4-SB" prefix in the sample identification. Decontamination of field equipment was performed between each sampling location in general accordance with FDEP SOP FC 1000, Cleaning/Decontamination Procedures (FDEP, 2004).

Sample collection was conducted in general accordance with FDEP SOP FS 3000 (FDEP, 2008) as stated in the UFP-SAP.

Soil samples were placed in laboratory-provided containers, sealed, labeled, packed in ice, and shipped in coolers under chain-of-custody protocol to a fixed-base laboratory. Laboratory personnel checked in and inspected each sample for integrity prior to analysis. Samples were analyzed for PAH compounds. A list of the soil samples and the associated analysis is presented in Table 2-1. Soil sampling log sheets and field notes are provided in Appendix C.

2.2.3.2 Groundwater Assessment

No additional groundwater samples were collected in Phase III.

2.3 SUPPLEMENTAL QUALITY CONTROL MEASURES

During preparation of the UFP-SAP, chemists from the Navy and Tetra Tech reviewed the laboratory SOPs to ensure that DQOs would be attained. Each laboratory was required to maintain current National Environmental Laboratory Accreditation Program accreditation under the Department of Defense and/or the Florida Department of Health. Quality control samples collected included duplicates, matrix spike duplicates, and equipment rinsate blanks. Temperature blanks and VOC cross-contamination blanks were supplied as necessary with sample coolers shipped to the laboratory. All samples results provided by the laboratory underwent a cursory data validation review by Tetra Tech to ensure data quality objectives were maintained. The validation reviews reported no unacceptable anomalies for the analytical results.

2.4 SUPPLEMENTAL FIELD INVESTIGATION INFORMATION

Supplemental field work included conducting a search for potable wells within a ½-mile radius of Site 4 and the storage and disposal of IDW. This section provides the details for these activities.

2.4.1 Potable Water Well Survey

A potable water well search was conducted to identify potential sensitive receptors within a ½-mile radius of Site 4. Information presented in this section was obtained from a site reconnaissance, interview of the FLC Environmental Manager, and a database search from Environmental Data Resource, Inc. (EDR®) (EDR®, 2012). Results of the search reveals there are no active potable water wells within a ½-mile radius of Site 4. One industrial water well was located within a ½-mile radius located at the fueling pier on the southern border of the facility. The industrial well has its source as the St. Johns River and is used for firefighting at the facility. Two former potable water wells (identified as wells B and C in Table 2-3) have since been abandoned. The water well information is summarized in Table 2-3. A figure from the EDR® report depicting the locations of the former and current water supply wells in the vicinity of Site 4 is presented in Figure 2-5.

TABLE 2-3

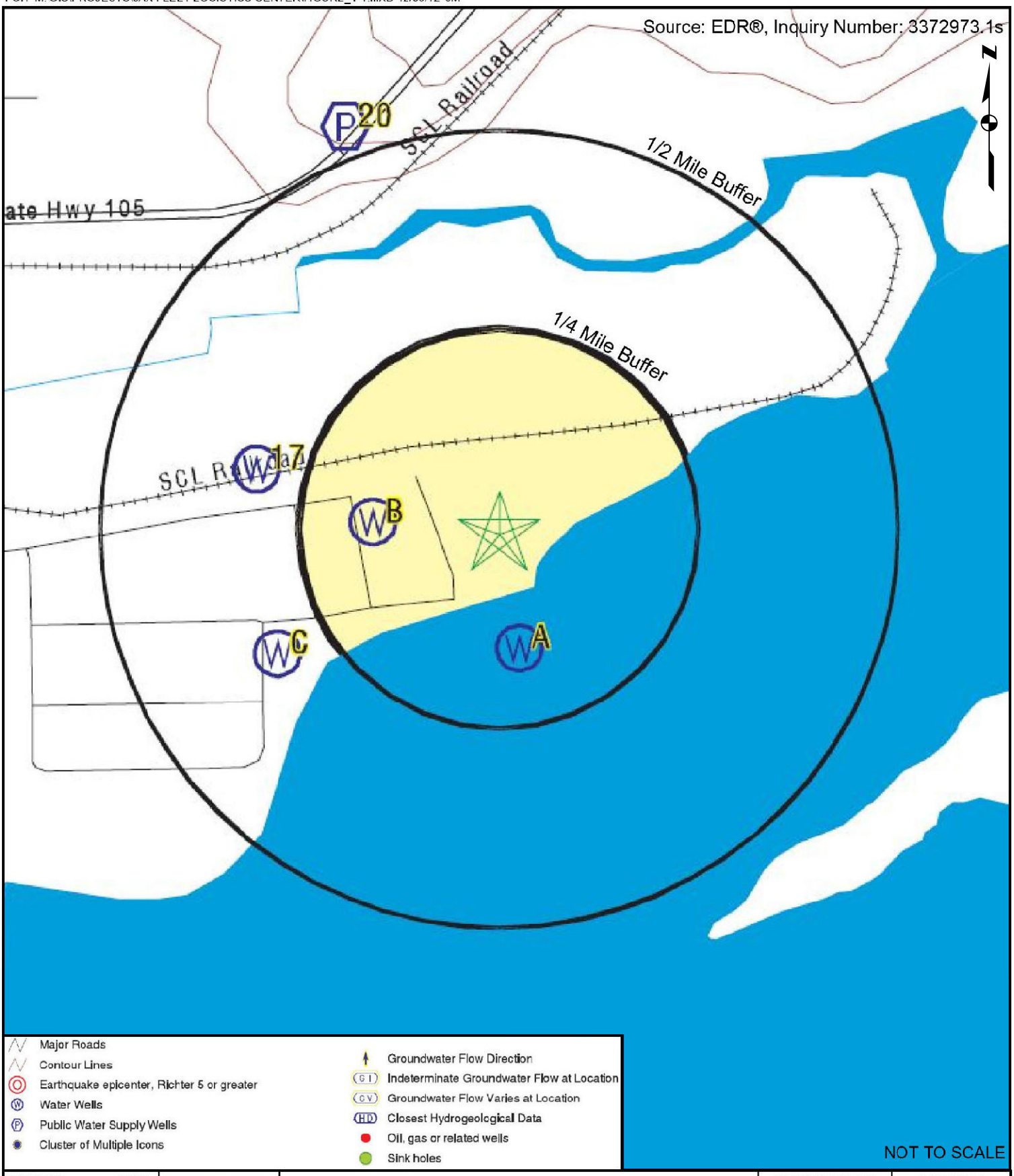
INDUSTRIAL WATER WELL SURVEY RESULTS
SITE 4 SAR
FLEET LOGISTICS CENTER JACKSONVILLE – NAVY FUEL DEPOT
JACKSONVILLE, FLORIDA

Well Identification	Approximate Distance from Center of Site (miles)	Diameter (inches)	Source of Well	Status
A	<0.25	2	Surface Water	Active
B	<0.25	2	Florida Aquifer	Abandoned
C	0.25 to <0.5	2	Florida Aquifer	Abandoned
17	0.25 to <0.5	2	1,000	Inactive

2.4.2 Investigation-Derived Waste

Soil cuttings from borings, purge water from monitoring wells, and decontamination water were collected and containerized in Department of Transportation-approved 55-gallon drums. Each drum was sealed, labeled, and transported to a pre-designated staging area as directed by the FLC Environmental Manager. The waste was profiled as non-hazardous, and manifests were supplied by a licensed disposal contractor. The manifests were signed by the FLC Environmental Manager for transport to a licensed disposal facility. Disposal certificates accounting for each drum of waste are provided in Appendix C.

PGH M:\GIS\PROJECTS\JAX FLEET LOGISTICS CENTER\FIGURE_1-4.MXD 12/06/12 JM



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WATER WELL MAP

FLEET LOGISTICS CENTER JACKSONVILLE - NAVY FUEL DEPOT

JACKSONVILLE, FLORIDA

CONTRACT NUMBER	CTO NUMBER
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APPROVED BY	DATE
—	—
APPROVED BY	DATE
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FIGURE NO. 2-5	REV 0

3.0 INVESTIGATION RESULTS

This section presents information on the site geology and hydrogeology and presents the results of the soil and groundwater sampling activities. Data collected during the assessment with information from previous investigations were used to provide the geology and hydrogeology. Section 4 presents an interpretation of these findings and makes recommendations on remediation activities to protect human health and the environment.

3.1 SITE-SPECIFIC GEOLOGY

To investigate the subsurface geology, the monitoring well installation boring logs were examined for lithology. Examination of boring logs show the surface soils and subsurface soils (0 to 6 feet) consist of light brown fine to medium grained sands with no indication of petroleum odor or contamination. Deeper subsurface soil (6 to 15 feet) consists primarily of white and grey sand and no indication of impacts by petroleum contamination. Shallow test borings drilled at the facility by Brevard Engineering report that soils at the facility primarily consists of light brown fine to coarse sand which is expected since much of the facility is hydraulic fill dredged from river (Fred C. Hart Associates, 1983). The monitoring well construction logs are provided in Appendix B.

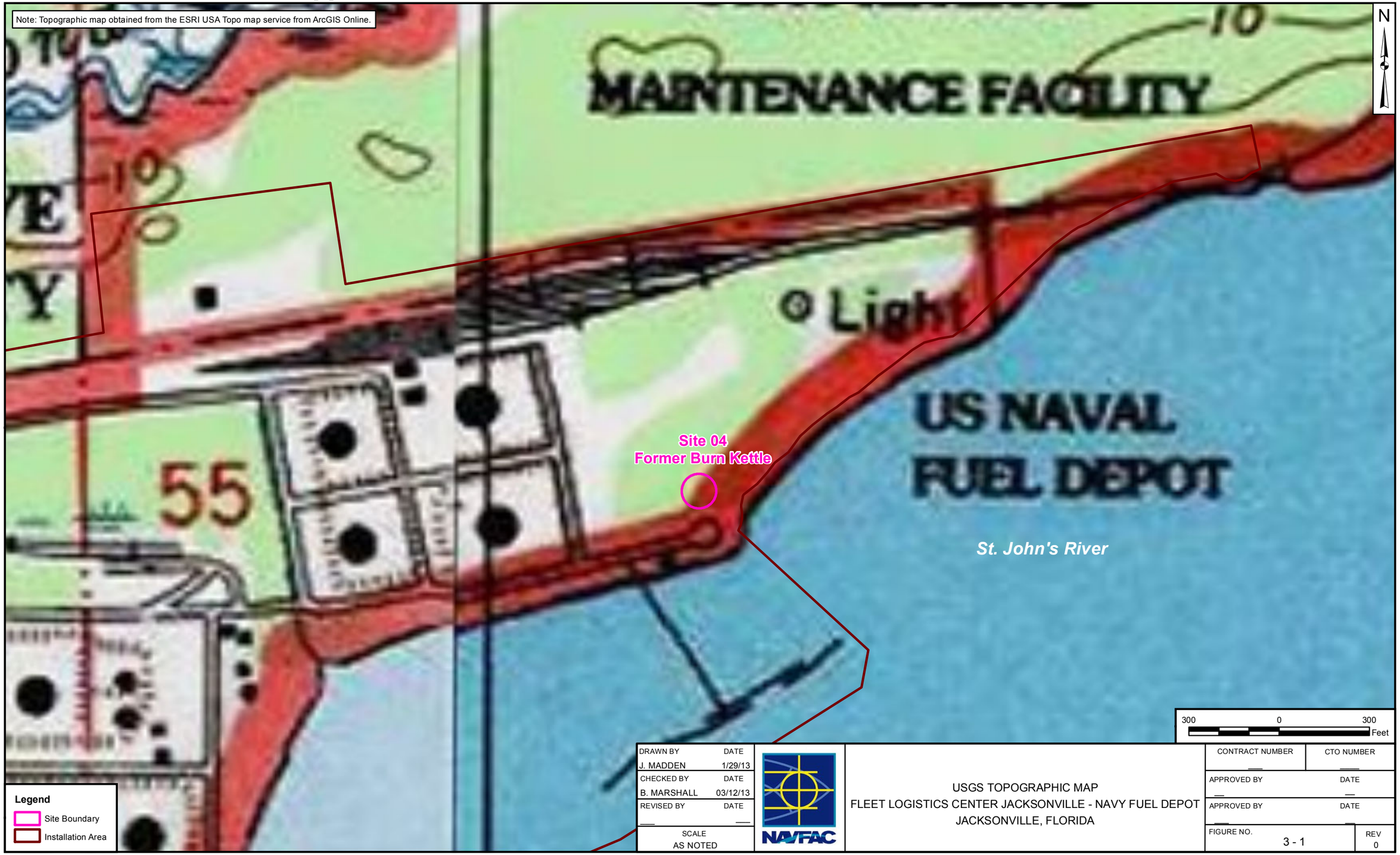
3.2 SITE HYDROGEOLOGY AND GROUNDWATER FLOW DIRECTION

In general, the surficial or upper aquifer ranges from 10 to 90 feet in thickness and contains unconsolidated sediments that include clay, silt, sands, shelly sands, and shell beds (Fred C. Hart Associates, 1983). Generally, groundwater in the surficial aquifer flows from high topography to low topography and toward the St. Johns River. According to the United States Geological Survey (USGS), groundwater in the surficial aquifer is not a water supply for FLC or the surrounding areas. Figure 3-1 presents Site 4 on a USGS Topographic map showing the St. Johns River to the south. As seen in Figure 3-1, the St. Johns River forms the southern and eastern boundary of the facility.

3.2.1 Water Level Measurements

Groundwater level measurements were recorded September 30, 2011, from the Phase I monitoring wells (FLC-4-MW-01 and FLC-4-MW-02) and from all three monitoring wells (FLC-4-MW01, FLC-4-MW02, and FLC-4-MW-NFD1R) on July 11, 2012. Each monitoring well was professionally surveyed on July 11, 2012. The groundwater level measurements recorded on July 11, 2012, and well depths are summarized in Table 3-1. Relative groundwater levels were calculated using the elevation measurements with top of well casing measurements and are presented in Table 3-1.

JAX M:\GIS\PROJECTS\JAX FLEET LOGISTICS CENTER\MXD\SITE 4 FIGURES\FIGURE_3-1_TOPO.MXD 03/12/13 JM



DRAWN BY	DATE
J. MADDEN	1/29/13
CHECKED BY	DATE
B. MARSHALL	03/12/13
REVISED BY	DATE
SCALE	
AS NOTED	

NAVFAC

USGS TOPOGRAPHIC MAP
FLEET LOGISTICS CENTER JACKSONVILLE - NAVY FUEL DEPOT
JACKSONVILLE, FLORIDA

CONTRACT NUMBER	CTO NUMBER
APPROVED BY	DATE
APPROVED BY	DATE
FIGURE NO. 3 - 1	REV 0

TABLE 3-1

GROUNDWATER ELEVATION DATA
SITE 4 SAR
FLEET LOGISTICS CENTER JACKSONVILLE – NAVY FUEL DEPOT
JACKSONVILLE, FLORIDA

Well Identification	Total Well Depth (feet below TOC)	TOC Elevation (feet)	September 30, 2011		July 11, 2012	
			Depth to Water (feet below TOC)	Water Table Relative Elevation (feet)	Depth to Water (feet below TOC)	Water Table Relative Elevation (feet)
FLC-4-MW01	18.2	7.87	8.08	0.21	6.33	1.54
FLC-4-MW02	18.6	8.37	8.48	0.11	6.75	1.62
FLC-4-MW-NFD1R	18	7.33	---	---	7.01	0.32

Notes:
TOC = top of casing
--- No data taken since well was not yet installed.

The relative groundwater levels from July 2012 were used to construct the contours presented in Figure 3-2 and indicate groundwater flow moves south toward the St. Johns River. This groundwater flow direction was expected and is consistent with historical groundwater flow calculations (Geraghty & Miller, Inc., 1991). The water level field log forms are provided in Appendix B.

3.2.2 Aquifer Characteristics and Groundwater Flow

The horizontal movement of groundwater in the surficial aquifer beneath Site 4 was estimated based upon groundwater measurements from existing monitoring wells and hydraulic properties on sandy aquifers taken from published research. The average hydraulic gradient (i) was calculated using water levels from wells FLC-4-MW02 and FLC-4-MW-NFD1R and the measured distance between these wells (80 feet). Using the following equation, the average hydraulic gradient was calculated to be 0.016 feet per feet.

$$i = dH/dL$$

where: dH = difference in water level (head) between monitoring wells in feet
dL = measured distance between monitoring wells in feet

The effective porosity was taken to be 0.3 (Driscoll, 1986) and the hydraulic conductivity as 2×10^{-5} meters per second for sand (Fetter, 1994). Using Darcy's Law, the groundwater velocity moving across the site was calculated.

JAX M:\GIS\PROJECTS\JAX FLEET LOGISTICS CENTER\MXD\SITE 4 FIGURES\FIGURE_3-2_GW_FLOW.MXD 03/14/13 JM

DRAWN BY	DATE
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CHECKED BY	DATE
B. MARSHALL	03/14/13
REVISED BY	DATE
SCALE	
AS NOTED	

NAVFAC

SHALLOW GROUNDWATER FLOW MAP
MEASUREMENTS TAKEN JULY 2012
FLEET LOGISTICS CENTER JACKSONVILLE - NAVY FUEL DEPOT
JACKSONVILLE, FLORIDA

CONTRACT NUMBER	CTO NUMBER
APPROVED BY	DATE
APPROVED BY	DATE
FIGURE NO. 3 - 2	REV 0

Darcy's Law may be expressed as follows:

$$V = \frac{(K \times i)}{n}$$

where: V = average velocity

K = hydraulic conductivity

n = effective porosity

i = average hydraulic gradient

Using this equation, the groundwater velocity across the site is approximately 0.3 foot per day or 100 feet per year.

3.3 NATURE AND EXTENT OF CONTAMINATION

This section presents the analytical results of the soil and groundwater samples collected during Phases I, II, and III. The results show that soil contamination is present exceeding Cleanup Target Levels (CTLs) and that the contamination may pose a risk to human health and the environment. Recommendations for potential remedial actions are presented in Section 4.

3.3.1 Soil Analytical Results

Results for soil samples collected and analyzed during Phase I, Phase II, and Phase III assessment activities revealed exceedances for PAH compounds in surface and subsurface soils. The exceedances are located to the east, north, and south of the former burn kettle location. Details for each phase of assessment are reported in the following subsections.

3.3.1.1 Phase I

Analysis of soil samples revealed no exceedances above the FDEP Residential SCTLs except for the presence of PAH contamination exceeding the FDEP Residential SCTLs in the soil boring location FLC-4-SB02 in surface soil (0 to 0.5 foot bls). The analytical results for detections are summarized in Table 3-2. Detections were reported for metals (arsenic, barium, beryllium, chromium, copper, lead, mercury, and zinc) and VOCs (2-butanone, benzene, ethyl benzene, xylenes, methylene chloride, and toluene); however, the results were less than the CTLs. The sample FLC-4-SS02 in the 0.5 to 2 feet bls interval had an exceedance of methylene chloride exceeding leachability levels; however, this result appears to be an anomaly. The Phase I soil sample locations are identified on Figure 3-3.

Table 3-2

Soil Analytical Results
Site Assessment Report - Site 4
Fleet Logistics Center Jacksonville - Navy Fuel Depot
Jacksonville, Florida
Page 1 of 12

LOCATION	FDEP Residential SCTL	FDEP Industrial SCTL	FDEP Leachability SCTL	FLC-4-MW01			FLC-4-MW02			FLC-4-P01		
SAMPLE IDENTIFICATION				FLC-4-SS01-0006-092211	FLC-4-SS01-0624-092211	FLC-4-SB01-0204-092211	FLC-4-SS02-0006-092211	FLC-4-SS02-0624-092211	FLC-4-SB02-0204-092211	FLC-4-PO1-0624-022112	FLC-4-PO1-0204-022112	FLC-4-PO1-0204-022112-AVG
SAMPLE DATE				20110922	20110922	20110922	20110922	20110922	20110922	20120221	20120221	20120221
SUBMATRIX				SS	SS	SB	SS	SS	SB	SS	SB	SB
TOP DEPTH				0	0.5	2	0	0.5	2	0.5	2	2
BOTTOM DEPTH				0.5	2	4	0.5	2	4	2	4	4
METALS (mg/kg)												
ARSENIC	2.1	12	NC	0.622	0.631 U	0.629 U	1.38	0.566 U	0.664 U	NA	NA	NA
BARIUM	120	130000	1600	4.53 J	11.3	2.72 J	17.5	5.68 J	7.38 J	NA	NA	NA
BERYLLIUM	120	1400	63	0.206 U	0.21 U	0.21 U	0.343 J	0.189 U	0.221 U	NA	NA	NA
CHROMIUM	210	470	38	1.73	1.82	1.19	7.09	1.76	2.33	NA	NA	NA
COPPER	150	89000	NC	1.07 J	0.931 J	0.839 U	5.89	0.755 U	0.885 U	NA	NA	NA
LEAD	400	1400	NC	3.79	1.98	0.738	15.9	2.67	2.78	NA	NA	NA
MERCURY	3	17	2.1	0.0117 U	0.014 U	0.0141 U	0.0163	0.0112	0.0109 U	NA	NA	NA
NICKEL	340	35000	130	1.57 J	1.5 J	0.629 U	6.63	1.54 J	1.71 J	NA	NA	NA
ZINC	26000	630000	NC	5.83	4.66	1.44 J	14.4	3.58 J	4.13 J	NA	NA	NA
PETROLEUM HYDROCARBONS (mg/kg)												
TPH (C08-C40)	460	2700	340	171 J	114 U	12.3 U	236 J	148 J	117 U	NA	NA	NA
POLYCYCLIC AROMATIC HYDROCARBONS (mg/kg)												
1-METHYLNAPHTHALENE	200	1800	3.1	0.00171 U	0.00171 U	0.00187 U	0.0274 J	0.00164 U	0.017 U	0.0021 U	0.0202 U	0.0198 U
2-METHYLNAPHTHALENE	210	2100	8.5	0.00171 U	0.00171 U	0.00187 U	0.0409 J	0.00223 J	0.017 U	0.0021 U	0.0202 U	0.0198 U
ACENAPHTHYLENE	1800	20000	27	0.00171 U	0.00171 U	0.00187 U	0.161	0.00624 J	0.017 U	0.0021 U	0.0202 U	0.0198 U
ANTHRACENE	21000	300000	2500	0.00171 U	0.00171 U	0.00187 U	0.0405 J	0.00171 J	0.017 U	0.0021 U	0.0202 U	0.0198 U
BAP EQUIVALENT-HALFND	0.1	0.7	8	0.00651	0.010759	0.00187 U	**0.909733 [R][I]**	0.04661	0.033276	0.0021 U	0.026226	0.0467315
BAP EQUIVALENT-POS	0.1	0.7	8	0.005562	0.009896	0.00187 U	**0.909733 [R][I]**	0.04661	0.023076	0.0021 U	0.003905	0.0292175
BENZO(A)ANTHRACENE	0.15	NC	0.8	0.00171 U	0.0045 J	0.00187 U	**0.338 [R]**	0.0154	0.017 U	0.0021 U	0.0202 U	0.0198 U
BENZO(A)PYRENE	0.1	0.7	8	0.00438 J	0.00749	0.00187 U	**0.613 [R]**	0.0305	0.0202 J	0.0021 U	0.0202 U	0.03225
BENZO(B)FLUORANTHENE	0.15	NC	2.4	0.00662 J	0.0113	0.00187 U	**0.812 [R]**	0.0384	0.0268 J	0.0021 U	0.0202 U	0.0198 U
BENZO(G,H,I)PERYLENE	2500	52000	32000	0.00171 U	0.0161	0.00187 U	0.551	0.0333	0.017 U	0.0021 U	0.111	0.08345
BENZO(K)FLUORANTHENE	1.5	NC	24	0.00171 U	0.00171 U	0.00187 U	0.28	0.0168	0.0176 J	0.0021 U	0.0202 U	0.0198 U
CHRYSENE	15	NC	77	0.00171 U	0.00574 J	0.00187 U	0.433	0.0225	0.0204 J	0.0021 U	0.215	0.1725
DIBENZO(A,H)ANTHRACENE	0.015	NC	0.7	0.00171 U	0.00171 U	0.00187 U	**0.127 [R]**	0.0084	0.017 U	0.0021 U	0.0202 U	0.0198 U
FLUORANTHENE	3200	59000	1200	0.00371 J	0.00488 J	0.00187 U	0.398	0.0176	0.017 U	0.0021 U	0.104	0.093
INDENO(1,2,3-CD)PYRENE	0.15	NC	6.6	0.0052 J	0.00821	0.00187 U	**0.515 [R]**	0.0214	0.017 U	0.0021 U	0.0369 J	0.0233
NAPHTHALENE	55	300	1.2	0.00171 U	0.00171 U	0.00187 U	0.0479 J	0.00319 J	0.017 U	0.0021 U	0.0263 J	0.018
PHENANTHRENE	2200	36000	250	0.00258 J	0.0023 J	0.00187 U	0.098	0.00624 J	0.017 U	0.0021 U	0.0202 U	0.0198 U
PYRENE	2400	45000	880	0.00468 J	0.00681 J	0.00187 U	0.573	0.0287	0.0223 J	0.0021 U	0.521 J	0.402
VOLATILES (mg/kg)												
2-BUTANONE	16000	110000	17	0.00354 J	0.00687 J	0.00628 J	0.00858 J	0.0115	0.00898 J	NA	NA	NA
ACETONE	11000	68000	25	0.0133 U	0.0507 J	0.0145 U	0.162	0.0826	0.0762	NA	NA	NA
BENZENE	1.2	1.7	0.007	0.00175 J	0.00185 J	0.00175 J	0.00119 U	0.00174 J	0.00201 J	NA	NA	NA
ETHYLBENZENE	1500	9200	0.6	0.00173 J	0.00213 J	0.00164 J	0.00156 J	0.00208 J	0.00209 J	NA	NA	NA
M+P-XYLENES	NC	NC	NC	0.00334 J	0.00383 J	0.00318 J	0.00238 U	0.00355 J	0.00381 J	NA	NA	NA

Table 3-2

Soil Analytical Results
Site Assessment Report - Site 4
Fleet Logistics Center Jacksonville - Navy Fuel Depot
Jacksonville, Florida
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LOCATION	FDEP Residential SCTL	FDEP Industrial SCTL	FDEP Leachability SCTL	FLC-4-MW01			FLC-4-MW02			FLC-4-P01		
SAMPLE IDENTIFICATION				FLC-4-SS01-0006-092211	FLC-4-SS01-0624-092211	FLC-4-SB01-0204-092211	FLC-4-SS02-0006-092211	FLC-4-SS02-0624-092211	FLC-4-SB02-0204-092211	FLC-4-PO1-0624-022112	FLC-4-PO1-0204-022112	FLC-4-PO1-0204-022112-AVG
SAMPLE DATE				20110922	20110922	20110922	20110922	20110922	20110922	20120221	20120221	20120221
SUBMATRIX				SS	SS	SB	SS	SS	SB	SS	SB	SB
TOP DEPTH				0	0.5	2	0	0.5	2	0.5	2	2
BOTTOM DEPTH				0.5	2	4	0.5	2	4	2	4	4
VOLATILES (mg/kg)												
METHYLENE CHLORIDE	17	26	0.02	0.00739	0.00741	0.00693	0.0057	**0.053 [L]**	0.00526 J	NA	NA	NA
O-XYLENE	NC	NC	NC	0.00133 U	0.0014 J	0.00145 U	0.00119 U	0.00137 U	0.00138 J	NA	NA	NA
TOLUENE	7500	60000	0.5	0.0042 J	0.00459 J	0.00395 J	0.00272 J	0.00447 J	0.00467 J	NA	NA	NA
DIOXINS/FURANS (pg/g)												
1,2,3,7,8-PECDD	18	NC	NC	NA	NA	NA	NA	NA	NA	NA	NA	NA
1,2,3,4,7,8-HXCDD	180	NC	NC	NA	NA	NA	NA	NA	NA	NA	NA	NA
1,2,3,6,7,8-HXCDD	180	NC	NC	NA	NA	NA	NA	NA	NA	NA	NA	NA
1,2,3,7,8,9-HXCDD	180	NC	NC	NA	NA	NA	NA	NA	NA	NA	NA	NA
1,2,3,4,6,7,8-HPCDD	1800	NC	NC	NA	NA	NA	NA	NA	NA	NA	NA	NA
1,2,3,4,6,7,8,9-OCDD	60000	NC	NC	NA	NA	NA	NA	NA	NA	NA	NA	NA
2,3,4,7,8-PECDF	60	NC	NC	NA	NA	NA	NA	NA	NA	NA	NA	NA
1,2,3,4,7,8-HXCDF	180	NC	NC	NA	NA	NA	NA	NA	NA	NA	NA	NA
1,2,3,6,7,8-HXCDF	180	NC	NC	NA	NA	NA	NA	NA	NA	NA	NA	NA
2,3,4,6,7,8-HXCDF	180	NC	NC	NA	NA	NA	NA	NA	NA	NA	NA	NA
1,2,3,4,6,7,8-HPCDF	1800	NC	NC	NA	NA	NA	NA	NA	NA	NA	NA	NA
1,2,3,4,7,8,9-HPCDF	1800	NC	NC	NA	NA	NA	NA	NA	NA	NA	NA	NA
1,2,3,4,6,7,8,9-OCDF	60000	NC	NC	NA	NA	NA	NA	NA	NA	NA	NA	NA
TOTAL PECDD	NC	NC	NC	NA	NA	NA	NA	NA	NA	NA	NA	NA
TOTAL HXCDD	NC	NC	NC	NA	NA	NA	NA	NA	NA	NA	NA	NA
TOTAL HPCDD	NC	NC	NC	NA	NA	NA	NA	NA	NA	NA	NA	NA
TOTAL TCDF	NC	NC	NC	NA	NA	NA	NA	NA	NA	NA	NA	NA
TOTAL PECDF	NC	NC	NC	NA	NA	NA	NA	NA	NA	NA	NA	NA
TOTAL HXCDF	NC	NC	NC	NA	NA	NA	NA	NA	NA	NA	NA	NA
TOTAL HPCDF	NC	NC	NC	NA	NA	NA	NA	NA	NA	NA	NA	NA
TEQ WHO-2005	NC	NC	NC	NA	NA	NA	NA	NA	NA	NA	NA	NA
TEQ WHO-2005 - HALFND	NC	NC	NC	NA	NA	NA	NA	NA	NA	NA	NA	NA

Table 3-2

Soil Analytical Results
Site Assessment Report - Site 4
Fleet Logistics Center Jacksonville - Navy Fuel Depot
Jacksonville, Florida
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LOCATION	FDEP Residential SCTL	FDEP Industrial SCTL	FDEP Leachability SCTL	FLC-4-P01	FLC-4-P02		FLC-4-P03		FLC-4-P04		FLC-4-P06	
SAMPLE IDENTIFICATION				FLC-4-PO1-0204-022112-D	FLC-4-PO2-0624-022112	FLC-4-PO2-0204-022112	FLC-4-PO3-0624-022112	FLC-4-PO3-0204-022112	FLC-4-PO4-0624-022112	FLC-4-PO4-0204-022112	FLC-4-PO6-0624-022112	FLC-4-PO6-0204-022112
SAMPLE DATE				20120221	20120221	20120221	20120221	20120221	20120221	20120221	20120221	20120221
SUBMATRIX				SB	SS	SB	SS	SB	SS	SB	SS	SB
TOP DEPTH				2	0.5	2	0.5	2	0.5	2	0.5	2
BOTTOM DEPTH				4	2	4	2	4	2	4	2	4
METALS (mg/kg)												
ARSENIC	2.1	12	NC	NA	NA	NA	NA	NA	NA	NA	NA	NA
BARIUM	120	130000	1600	NA	NA	NA	NA	NA	NA	NA	NA	NA
BERYLLIUM	120	1400	63	NA	NA	NA	NA	NA	NA	NA	NA	NA
CHROMIUM	210	470	38	NA	NA	NA	NA	NA	NA	NA	NA	NA
COPPER	150	89000	NC	NA	NA	NA	NA	NA	NA	NA	NA	NA
LEAD	400	1400	NC	NA	NA	NA	NA	NA	NA	NA	NA	NA
MERCURY	3	17	2.1	NA	NA	NA	NA	NA	NA	NA	NA	NA
NICKEL	340	35000	130	NA	NA	NA	NA	NA	NA	NA	NA	NA
ZINC	26000	630000	NC	NA	NA	NA	NA	NA	NA	NA	NA	NA
PETROLEUM HYDROCARBONS (mg/kg)												
TPH (C08-C40)	460	2700	340	NA	NA	NA	NA	NA	NA	NA	NA	NA
POLYCYCLIC AROMATIC HYDROCARBONS (mg/kg)												
1-METHYLNAPHTHALENE	200	1800	3.1	0.0194 U	0.00164 U	0.0972 U	0.00169 U	0.00196 U	0.00169 U	0.00189 U	0.00165 U	0.00208 U
2-METHYLNAPHTHALENE	210	2100	8.5	0.0194 U	0.00164 U	0.0972 U	0.00169 U	0.00196 U	0.00169 U	0.00189 U	0.00191 J	0.00208 U
ACENAPHTHYLENE	1800	20000	27	0.0194 U	0.00354 J	0.0972 U	0.00169 U	0.00196 U	0.00169 U	0.00189 U	0.00282 J	0.00208 U
ANTHRACENE	21000	300000	2500	0.0194 U	0.00164 U	0.0972 U	0.00169 U	0.00196 U	0.00169 U	0.00189 U	0.00165 U	0.00208 U
BAP EQUIVALENT-HALFND	0.1	0.7	8	0.067237	0.011503	**0.397678 [R]**	0.003327	0.00196 U	0.00169 U	0.002183	0.009092	0.00208 U
BAP EQUIVALENT-POS	0.1	0.7	8	0.05453	0.010683	**0.33931 [R]**	0.002222	0.00196 U	0.00169 U	0.000002	0.008095	0.00208 U
BENZO(A)ANTHRACENE	0.15	NC	0.8	0.0194 U	0.00554 J	0.0972 U	0.00169 U	0.00196 U	0.00169 U	0.00189 U	0.00165 U	0.00208 U
BENZO(A)PYRENE	0.1	0.7	8	0.0544 J	0.00842	**0.32 J[R]**	0.00222 J	0.00196 U	0.00169 U	0.00189 U	0.00762	0.00208 U
BENZO(B)FLUORANTHENE	0.15	NC	2.4	0.0194 U	0.00813	**0.181 J[R]**	0.00169 U	0.00196 U	0.00169 U	0.00189 U	0.00165 U	0.00208 U
BENZO(G,H,I)PERYLENE	2500	52000	32000	0.0559 J	0.0106	0.234 J	0.00169 U	0.00196 U	0.00169 U	0.00189 U	0.00515 J	0.00208 U
BENZO(K)FLUORANTHENE	1.5	NC	24	0.0194 U	0.0097	0.121 J	0.00169 U	0.00196 U	0.00169 U	0.00189 U	0.00165 U	0.00208 U
CHRYSENE	15	NC	77	0.13	0.0151	0.0972 U	0.00206 J	0.00196 U	0.00169 U	0.00201 J	0.0155	0.00208 U
DIBENZO(A,H)ANTHRACENE	0.015	NC	0.7	0.0194 U	0.00164 U	0.0972 U	0.00169 U	0.00196 U	0.00169 U	0.00189 U	0.00165 U	0.00208 U
FLUORANTHENE	3200	59000	1200	0.082	0.00992	0.78	0.00169 U	0.00326 J	0.00188 J	0.00189 U	0.0187	0.00341 J
INDENO(1,2,3-CD)PYRENE	0.15	NC	6.6	0.0194 U	0.00784	0.0972 U	0.00169 U	0.00196 U	0.00169 U	0.00189 U	0.0046 J	0.00208 U
NAPHTHALENE	55	300	1.2	0.0194 U	0.00164 U	0.0972 U	0.00169 U	0.00196 U	0.00169 U	0.00189 U	0.00165 U	0.00208 U
PHENANTHRENE	2200	36000	250	0.0194 U	0.00419 J	0.0972 U	0.00169 U	0.00288 J	0.00169 U	0.00189 U	0.0189	0.00303 J
PYRENE	2400	45000	880	0.283 J	0.0182	2.71	0.00196 J	0.00265 J	0.0024 J	0.00189 U	0.0261	0.00285 J
VOLATILES (mg/kg)												
2-BUTANONE	16000	110000	17	NA	NA	NA	NA	NA	NA	NA	NA	NA
ACETONE	11000	68000	25	NA	NA	NA	NA	NA	NA	NA	NA	NA
BENZENE	1.2	1.7	0.007	NA	NA	NA	NA	NA	NA	NA	NA	NA
ETHYLBENZENE	1500	9200	0.6	NA	NA	NA	NA	NA	NA	NA	NA	NA
M+P-XYLENES	NC	NC	NC	NA	NA	NA	NA	NA	NA	NA	NA	NA

Table 3-2

Soil Analytical Results
Site Assessment Report - Site 4
Fleet Logistics Center Jacksonville - Navy Fuel Depot
Jacksonville, Florida
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LOCATION	FDEP Residential SCTL	FDEP Industrial SCTL	FDEP Leachability SCTL	FLC-4-P01	FLC-4-P02		FLC-4-P03		FLC-4-P04		FLC-4-P06	
SAMPLE IDENTIFICATION				FLC-4-PO1-0204-022112-D	FLC-4-PO2-0624-022112	FLC-4-PO2-0204-022112	FLC-4-PO3-0624-022112	FLC-4-PO3-0204-022112	FLC-4-PO4-0624-022112	FLC-4-PO4-0204-022112	FLC-4-PO6-0624-022112	FLC-4-PO6-0204-022112
SAMPLE DATE				20120221	20120221	20120221	20120221	20120221	20120221	20120221	20120221	20120221
SUBMATRIX				SB	SS	SB	SS	SB	SS	SB	SS	SB
TOP DEPTH				2	0.5	2	0.5	2	0.5	2	0.5	2
BOTTOM DEPTH				4	2	4	2	4	2	4	2	4
VOLATILES (mg/kg)												
METHYLENE CHLORIDE	17	26	0.02	NA	NA	NA	NA	NA	NA	NA	NA	NA
O-XYLENE	NC	NC	NC	NA	NA	NA	NA	NA	NA	NA	NA	NA
TOLUENE	7500	60000	0.5	NA	NA	NA	NA	NA	NA	NA	NA	NA
DIOXINS/FURANS (pg/g)												
1,2,3,7,8-PECDD	18	NC	NC	NA	NA	NA	NA	NA	NA	NA	NA	NA
1,2,3,4,7,8-HXCDD	180	NC	NC	NA	NA	NA	NA	NA	NA	NA	NA	NA
1,2,3,6,7,8-HXCDD	180	NC	NC	NA	NA	NA	NA	NA	NA	NA	NA	NA
1,2,3,7,8,9-HXCDD	180	NC	NC	NA	NA	NA	NA	NA	NA	NA	NA	NA
1,2,3,4,6,7,8-HPCDD	1800	NC	NC	NA	NA	NA	NA	NA	NA	NA	NA	NA
1,2,3,4,6,7,8,9-OCDD	60000	NC	NC	NA	NA	NA	NA	NA	NA	NA	NA	NA
2,3,4,7,8-PECDF	60	NC	NC	NA	NA	NA	NA	NA	NA	NA	NA	NA
1,2,3,4,7,8-HXCDF	180	NC	NC	NA	NA	NA	NA	NA	NA	NA	NA	NA
1,2,3,6,7,8-HXCDF	180	NC	NC	NA	NA	NA	NA	NA	NA	NA	NA	NA
2,3,4,6,7,8-HXCDF	180	NC	NC	NA	NA	NA	NA	NA	NA	NA	NA	NA
1,2,3,4,6,7,8-HPCDF	1800	NC	NC	NA	NA	NA	NA	NA	NA	NA	NA	NA
1,2,3,4,7,8,9-HPCDF	1800	NC	NC	NA	NA	NA	NA	NA	NA	NA	NA	NA
1,2,3,4,6,7,8,9-OCDF	60000	NC	NC	NA	NA	NA	NA	NA	NA	NA	NA	NA
TOTAL PECDD	NC	NC	NC	NA	NA	NA	NA	NA	NA	NA	NA	NA
TOTAL HXCDD	NC	NC	NC	NA	NA	NA	NA	NA	NA	NA	NA	NA
TOTAL HPCDD	NC	NC	NC	NA	NA	NA	NA	NA	NA	NA	NA	NA
TOTAL TCDF	NC	NC	NC	NA	NA	NA	NA	NA	NA	NA	NA	NA
TOTAL PECDF	NC	NC	NC	NA	NA	NA	NA	NA	NA	NA	NA	NA
TOTAL HXCDF	NC	NC	NC	NA	NA	NA	NA	NA	NA	NA	NA	NA
TOTAL HPCDF	NC	NC	NC	NA	NA	NA	NA	NA	NA	NA	NA	NA
TEQ WHO-2005	NC	NC	NC	NA	NA	NA	NA	NA	NA	NA	NA	NA
TEQ WHO-2005 - HALFND	NC	NC	NC	NA	NA	NA	NA	NA	NA	NA	NA	NA

Table 3-2

Soil Analytical Results
Site Assessment Report - Site 4
Fleet Logistics Center Jacksonville - Navy Fuel Depot
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LOCATION	FDEP Residential SCTL	FDEP Industrial SCTL	FDEP Leachability SCTL	FLC-4-P06		FLC-4-P07		FLC-4-P08		FLC-4-P09		
SAMPLE IDENTIFICATION				FLC-4-PO6-0204-022112-AVG	FLC-4-PO6-0204-022112-D	FLC-4-PO7-0624-022112	FLC-4-PO7-0204-022112	FLC-4-PO8-0624-022112	FLC-4-PO8-0204-022112	FLC-4-PO9-0006-022112	FLC-4-PO9-0624-022112	FLC-4-PO9-0204-022112
SAMPLE DATE				20120221	20120221	20120221	20120221	20120221	20120221	20120221	20120221	20120221
SUBMATRIX				SB	SB	SS	SB	SS	SB	SS	SS	SB
TOP DEPTH				2	2	0.5	2	0.5	2	0	0.5	2
BOTTOM DEPTH				4	4	2	4	2	4	0.5	2	4
METALS (mg/kg)												
ARSENIC	2.1	12	NC	NA	NA	NA	NA	NA	NA	NA	NA	NA
BARIUM	120	130000	1600	NA	NA	NA	NA	NA	NA	NA	NA	NA
BERYLLIUM	120	1400	63	NA	NA	NA	NA	NA	NA	NA	NA	NA
CHROMIUM	210	470	38	NA	NA	NA	NA	NA	NA	NA	NA	NA
COPPER	150	89000	NC	NA	NA	NA	NA	NA	NA	NA	NA	NA
LEAD	400	1400	NC	NA	NA	NA	NA	NA	NA	NA	NA	NA
MERCURY	3	17	2.1	NA	NA	NA	NA	NA	NA	NA	NA	NA
NICKEL	340	35000	130	NA	NA	NA	NA	NA	NA	NA	NA	NA
ZINC	26000	630000	NC	NA	NA	NA	NA	NA	NA	NA	NA	NA
PETROLEUM HYDROCARBONS (mg/kg)												
TPH (C08-C40)	460	2700	340	NA	NA	NA	NA	NA	NA	NA	NA	NA
POLYCYCLIC AROMATIC HYDROCARBONS (mg/kg)												
1-METHYLNAPHTHALENE	200	1800	3.1	0.001985 U	0.00189 U	0.00171 U	0.00178 U	0.00172 U	0.00176 U	0.00175 U	0.0017 U	0.00166 U
2-METHYLNAPHTHALENE	210	2100	8.5	0.001985 U	0.00189 U	0.00171 U	0.00178 U	0.00172 U	0.00176 U	0.00256 J	0.0017 U	0.00166 U
ACENAPHTHYLENE	1800	20000	27	0.001985 U	0.00189 U	0.00171 U	0.00178 U	0.00172 U	0.00176 U	0.00384 J	0.0017 U	0.00166 U
ANTHRACENE	21000	300000	2500	0.001985 U	0.00189 U	0.00171 U	0.00178 U	0.00172 U	0.00176 U	0.00282 J	0.0017 U	0.00166 U
BAP EQUIVALENT-HALFND	0.1	0.7	8	0.001985 U	0.00189 U	0.002172	0.00178 U	0.00172 U	0.00176 U	0.076165	0.002287	0.006722
BAP EQUIVALENT-POS	0.1	0.7	8	0.001985 U	0.00189 U	0.000284	0.00178 U	0.00172 U	0.00176 U	0.076165	0.000502	0.005892
BENZO(A)ANTHRACENE	0.15	NC	0.8	0.001985 U	0.00189 U	0.0028 J	0.00178 U	0.00172 U	0.00176 U	0.0455	0.00208 J	0.00416 J
BENZO(A)PYRENE	0.1	0.7	8	0.001985 U	0.00189 U	0.00171 U	0.00178 U	0.00172 U	0.00176 U	0.051	0.0017 U	0.00473 J
BENZO(B)FLUORANTHENE	0.15	NC	2.4	0.001985 U	0.00189 U	0.00171 U	0.00178 U	0.00172 U	0.00176 U	0.0495	0.00272 J	0.00425 J
BENZO(G,H,I)PERYLENE	2500	52000	32000	0.001985 U	0.00189 U	0.00171 U	0.00178 U	0.00172 U	0.00176 U	0.0377	0.0017 U	0.00374 J
BENZO(K)FLUORANTHENE	1.5	NC	24	0.001985 U	0.00189 U	0.00171 U	0.00178 U	0.00172 U	0.00176 U	0.0505	0.00209 J	0.00445 J
CHRYSENE	15	NC	77	0.001985 U	0.00189 U	0.00408 J	0.00178 U	0.00172 U	0.00176 U	0.0704	0.0029 J	0.00589 J
DIBENZO(A,H)ANTHRACENE	0.015	NC	0.7	0.001985 U	0.00189 U	0.00171 U	0.00178 U	0.00172 U	0.00176 U	0.0123	0.0017 U	0.00166 U
FLUORANTHENE	3200	59000	1200	0.0021775	0.00189 U	0.00539 J	0.00178 U	0.00172 U	0.00177 J	0.0701	0.0028 J	0.00614 J
INDENO(1,2,3-CD)PYRENE	0.15	NC	6.6	0.001985 U	0.00189 U	0.00171 U	0.00178 U	0.00172 U	0.00176 U	0.0279	0.0017 U	0.00272 J
NAPHTHALENE	55	300	1.2	0.001985 U	0.00189 U	0.00171 U	0.00178 U	0.00172 U	0.00176 U	0.00448 J	0.0017 U	0.00166 U
PHENANTHRENE	2200	36000	250	0.0019875	0.00189 U	0.00264 J	0.00178 U	0.00172 U	0.00176 U	0.0272	0.0019 J	0.00281 J
PYRENE	2400	45000	880	0.0018975	0.00189 U	0.00554 J	0.00181 J	0.00172 U	0.00195 J	0.0984	0.00345 J	0.00846
VOLATILES (mg/kg)												
2-BUTANONE	16000	110000	17	NA	NA	NA	NA	NA	NA	NA	NA	NA
ACETONE	11000	68000	25	NA	NA	NA	NA	NA	NA	NA	NA	NA
BENZENE	1.2	1.7	0.007	NA	NA	NA	NA	NA	NA	NA	NA	NA
ETHYLBENZENE	1500	9200	0.6	NA	NA	NA	NA	NA	NA	NA	NA	NA
M+P-XYLENES	NC	NC	NC	NA	NA	NA	NA	NA	NA	NA	NA	NA

Table 3-2

Soil Analytical Results
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LOCATION	FDEP Residential SCTL	FDEP Industrial SCTL	FDEP Leachability SCTL	FLC-4-P06		FLC-4-P07		FLC-4-P08		FLC-4-P09		
SAMPLE IDENTIFICATION				FLC-4-PO6-0204-022112-AVG	FLC-4-PO6-0204-022112-D	FLC-4-PO7-0624-022112	FLC-4-PO7-0204-022112	FLC-4-PO8-0624-022112	FLC-4-PO8-0204-022112	FLC-4-PO9-0006-022112	FLC-4-PO9-0624-022112	FLC-4-PO9-0204-022112
SAMPLE DATE				20120221	20120221	20120221	20120221	20120221	20120221	20120221	20120221	20120221
SUBMATRIX				SB	SB	SS	SB	SS	SB	SS	SS	SB
TOP DEPTH				2	2	0.5	2	0.5	2	0	0.5	2
BOTTOM DEPTH				4	4	2	4	2	4	0.5	2	4
VOLATILES (mg/kg)												
METHYLENE CHLORIDE	17	26	0.02	NA	NA	NA	NA	NA	NA	NA	NA	NA
O-XYLENE	NC	NC	NC	NA	NA	NA	NA	NA	NA	NA	NA	NA
TOLUENE	7500	60000	0.5	NA	NA	NA	NA	NA	NA	NA	NA	NA
DIOXINS/FURANS (pg/g)												
1,2,3,7,8-PECDD	18	NC	NC	NA	NA	NA	NA	NA	NA	NA	NA	NA
1,2,3,4,7,8-HXCDD	180	NC	NC	NA	NA	NA	NA	NA	NA	NA	NA	NA
1,2,3,6,7,8-HXCDD	180	NC	NC	NA	NA	NA	NA	NA	NA	NA	NA	NA
1,2,3,7,8,9-HXCDD	180	NC	NC	NA	NA	NA	NA	NA	NA	NA	NA	NA
1,2,3,4,6,7,8-HPCDD	1800	NC	NC	NA	NA	NA	NA	NA	NA	NA	NA	NA
1,2,3,4,6,7,8,9-OCDD	60000	NC	NC	NA	NA	NA	NA	NA	NA	NA	NA	NA
2,3,4,7,8-PECDF	60	NC	NC	NA	NA	NA	NA	NA	NA	NA	NA	NA
1,2,3,4,7,8-HXCDF	180	NC	NC	NA	NA	NA	NA	NA	NA	NA	NA	NA
1,2,3,6,7,8-HXCDF	180	NC	NC	NA	NA	NA	NA	NA	NA	NA	NA	NA
2,3,4,6,7,8-HXCDF	180	NC	NC	NA	NA	NA	NA	NA	NA	NA	NA	NA
1,2,3,4,6,7,8-HPCDF	1800	NC	NC	NA	NA	NA	NA	NA	NA	NA	NA	NA
1,2,3,4,7,8,9-HPCDF	1800	NC	NC	NA	NA	NA	NA	NA	NA	NA	NA	NA
1,2,3,4,6,7,8,9-OCDF	60000	NC	NC	NA	NA	NA	NA	NA	NA	NA	NA	NA
TOTAL PECDD	NC	NC	NC	NA	NA	NA	NA	NA	NA	NA	NA	NA
TOTAL HXCDD	NC	NC	NC	NA	NA	NA	NA	NA	NA	NA	NA	NA
TOTAL HPCDD	NC	NC	NC	NA	NA	NA	NA	NA	NA	NA	NA	NA
TOTAL TCDF	NC	NC	NC	NA	NA	NA	NA	NA	NA	NA	NA	NA
TOTAL PECDF	NC	NC	NC	NA	NA	NA	NA	NA	NA	NA	NA	NA
TOTAL HXCDF	NC	NC	NC	NA	NA	NA	NA	NA	NA	NA	NA	NA
TOTAL HPCDF	NC	NC	NC	NA	NA	NA	NA	NA	NA	NA	NA	NA
TEQ WHO-2005	NC	NC	NC	NA	NA	NA	NA	NA	NA	NA	NA	NA
TEQ WHO-2005 - HALFND	NC	NC	NC	NA	NA	NA	NA	NA	NA	NA	NA	NA

Table 3-2

Soil Analytical Results
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LOCATION	FDEP Residential SCTL	FDEP Industrial SCTL	FDEP Leachability SCTL	FLC-4-SB05	FLC-4-SB06	FLC-4-SB07	FLC-4-SB08			FLC-4-SB09		FLC-4-SB10
SAMPLE IDENTIFICATION				FLC-4-SB05-0006-042612	FLC-4-SB06-0006-042612	FLC-4-SB07-0006-042612	FLC-4-SB08-0006-042612	FLC-4-SB08-0006-042612-AVG	FLC-4-SB08-0006-042612-D	FLC-4-SB09-0024-042612	FLC-4-SB09-0204-042612	FLC-4-SB10-0006-061212
SAMPLE DATE				20120426	20120426	20120426	20120426	20120426	20120426	20120426	20120426	20120612
SUBMATRIX				SS	SS	SS	SS	SS	SS	SS	SB	SS
TOP DEPTH				0	0	0	0	0	0	0	2	0
BOTTOM DEPTH				0.5	0.5	0.5	0.5	0.5	0.5	2	4	0.5
METALS (mg/kg)												
ARSENIC	2.1	12	NC	NA	NA	NA	NA	NA	NA	NA	NA	NA
BARIUM	120	130000	1600	NA	NA	NA	NA	NA	NA	NA	NA	NA
BERYLLIUM	120	1400	63	NA	NA	NA	NA	NA	NA	NA	NA	NA
CHROMIUM	210	470	38	NA	NA	NA	NA	NA	NA	NA	NA	NA
COPPER	150	89000	NC	NA	NA	NA	NA	NA	NA	NA	NA	NA
LEAD	400	1400	NC	NA	NA	NA	NA	NA	NA	NA	NA	NA
MERCURY	3	17	2.1	NA	NA	NA	NA	NA	NA	NA	NA	NA
NICKEL	340	35000	130	NA	NA	NA	NA	NA	NA	NA	NA	NA
ZINC	26000	630000	NC	NA	NA	NA	NA	NA	NA	NA	NA	NA
PETROLEUM HYDROCARBONS (mg/kg)												
TPH (C08-C40)	460	2700	340	NA	NA	NA	NA	NA	NA	NA	NA	NA
POLYCYCLIC AROMATIC HYDROCARBONS (mg/kg)												
1-METHYLNAPHTHALENE	200	1800	3.1	0.00229 U	0.00227 U	0.00472 J	0.00671 J	0.003905	0.0022 U	0.303	0.0311	0.00176 U
2-METHYLNAPHTHALENE	210	2100	8.5	0.00229 U	0.00227 U	0.00813	0.0156 J	0.00835	0.0022 UJ	0.614	0.0551	0.00176 U
ACENAPHTHYLENE	1800	20000	27	0.00229 U	0.00227 U	0.0516	0.0521 J	0.0266	0.0022 UJ	1.16	0.127	0.00655 J
ANTHRACENE	21000	300000	2500	0.00229 U	0.00227 U	0.0133	0.0394 J	0.02025	0.0022 UJ	0.325	0.0364	0.00176 U
BAP EQUIVALENT-HALFND	0.1	0.7	8	0.008998	0.011875	**0.375596 [R]**	**0.563527 [R]**	**0.2892235 [R]**	0.01492	**4.94291 [R][I]**	**0.494766 [R]**	0.017772
BAP EQUIVALENT-POS	0.1	0.7	8	0.007624	0.010627	**0.375596 [R]**	**0.563527 [R]**	**0.2886185 [R]**	0.01371	**4.94291 [R][I]**	**0.494766 [R]**	0.016804
BENZO(A)ANTHRACENE	0.15	NC	0.8	0.00229 U	0.00227 U	**0.229 [R]**	**0.377 J[R]**	**0.18905 [R]**	0.0022 UJ	**1.96 [R][L]**	**0.189 [R]**	0.00176 U
BENZO(A)PYRENE	0.1	0.7	8	0.00677 J	0.00894 J	**0.274 [R]**	**0.377 J[R]**	**0.19425 [R]**	0.0115 J	**3.65 [R][I]**	**0.361 [R]**	0.0145
BENZO(B)FLUORANTHENE	0.15	NC	2.4	0.00779 J	0.0103	**0.274 [R]**	**0.614 J[R]**	**0.3143 [R]**	0.0146 J	**3.02 [R][L]**	**0.305 [R]**	0.0149
BENZO(G,H,I)PERYLENE	2500	52000	32000	0.00509 J	0.0064 J	0.0994	0.189 J	0.097985	0.00697 J	2.28	0.247	0.00913
BENZO(K)FLUORANTHENE	1.5	NC	24	0.00759 J	0.00977	0.269	0.591 J	0.30225	0.0135 J	**3.68 [R]**	0.354	0.0151
CHRYSENE	15	NC	77	0.00229 U	0.012	0.266	0.717 J	0.36575	0.0145 J	4.11	0.426	0.0136
DIBENZO(A,H)ANTHRACENE	0.015	NC	0.7	0.00229 U	0.00227 U	**0.0384 [R]**	**0.0619 J[R]**	**0.0315 [R]**	0.0022 UJ	**0.568 [R]**	**0.0605 [R]**	0.00176 U
FLUORANTHENE	3200	59000	1200	0.00883 J	0.0144	0.233	0.226 J	0.1236	0.0212 J	3.15	0.338	0.017
INDENO(1,2,3-CD)PYRENE	0.15	NC	6.6	0.00229 U	0.00548 J	0.0994	**0.189 J[R]**	0.097505	0.00601 J	**1.86 [R]**	**0.199 [R]**	0.0065 J
NAPHTHALENE	55	300	1.2	0.00229 U	0.00227 U	0.00988	0.0407 J	0.0209	0.0022 UJ	0.817	0.0717	0.00176 U
PHENANTHRENE	2200	36000	250	0.00505 J	0.00779 J	0.0215	0.0452 J	0.0286	0.012 J	1.73	0.188	0.00988
PYRENE	2400	45000	880	0.00229 U	0.0191	0.33	0.265 J	0.14345	0.0219 J	5.34	0.581	0.0231
VOLATILES (mg/kg)												
2-BUTANONE	16000	110000	17	NA	NA	NA	NA	NA	NA	NA	NA	NA
ACETONE	11000	68000	25	NA	NA	NA	NA	NA	NA	NA	NA	NA
BENZENE	1.2	1.7	0.007	NA	NA	NA	NA	NA	NA	NA	NA	NA
ETHYLBENZENE	1500	9200	0.6	NA	NA	NA	NA	NA	NA	NA	NA	NA
M+P-XYLENES	NC	NC	NC	NA	NA	NA	NA	NA	NA	NA	NA	NA

Table 3-2

Soil Analytical Results
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LOCATION	FDEP Residential SCTL	FDEP Industrial SCTL	FDEP Leachability SCTL	**FLC-4-SB05**	**FLC-4-SB06**	**FLC-4-SB07**	**FLC-4-SB08**			**FLC-4-SB09**		**FLC-4-SB10**
SAMPLE IDENTIFICATION				FLC-4-SB05-0006-042612	FLC-4-SB06-0006-042612	FLC-4-SB07-0006-042612	FLC-4-SB08-0006-042612	FLC-4-SB08-0006-042612-AVG	FLC-4-SB08-0006-042612-D	FLC-4-SB09-0024-042612	FLC-4-SB09-0204-042612	FLC-4-SB10-0006-061212
SAMPLE DATE				20120426	20120426	20120426	20120426	20120426	20120426	20120426	20120426	20120612
SUBMATRIX				SS	SS	SS	SS	SS	SS	SS	SB	SS
TOP DEPTH				0	0	0	0	0	0	0	2	0
BOTTOM DEPTH				0.5	0.5	0.5	0.5	0.5	0.5	2	4	0.5
VOLATILES (mg/kg)												
METHYLENE CHLORIDE	17	26	0.02	NA	NA	NA	NA	NA	NA	NA	NA	NA
O-XYLENE	NC	NC	NC	NA	NA	NA	NA	NA	NA	NA	NA	NA
TOLUENE	7500	60000	0.5	NA	NA	NA	NA	NA	NA	NA	NA	NA
DIOXINS/FURANS (pg/g)												
1,2,3,7,8-PECDD	18	NC	NC	NA	NA	NA	NA	NA	NA	NA	NA	NA
1,2,3,4,7,8-HXCDD	180	NC	NC	NA	NA	NA	NA	NA	NA	NA	NA	NA
1,2,3,6,7,8-HXCDD	180	NC	NC	NA	NA	NA	NA	NA	NA	NA	NA	NA
1,2,3,7,8,9-HXCDD	180	NC	NC	NA	NA	NA	NA	NA	NA	NA	NA	NA
1,2,3,4,6,7,8-HPCDD	1800	NC	NC	NA	NA	NA	NA	NA	NA	NA	NA	NA
1,2,3,4,6,7,8,9-OCDD	60000	NC	NC	NA	NA	NA	NA	NA	NA	NA	NA	NA
2,3,4,7,8-PECDF	60	NC	NC	NA	NA	NA	NA	NA	NA	NA	NA	NA
1,2,3,4,7,8-HXCDF	180	NC	NC	NA	NA	NA	NA	NA	NA	NA	NA	NA
1,2,3,6,7,8-HXCDF	180	NC	NC	NA	NA	NA	NA	NA	NA	NA	NA	NA
2,3,4,6,7,8-HXCDF	180	NC	NC	NA	NA	NA	NA	NA	NA	NA	NA	NA
1,2,3,4,6,7,8-HPCDF	1800	NC	NC	NA	NA	NA	NA	NA	NA	NA	NA	NA
1,2,3,4,7,8,9-HPCDF	1800	NC	NC	NA	NA	NA	NA	NA	NA	NA	NA	NA
1,2,3,4,6,7,8,9-OCDF	60000	NC	NC	NA	NA	NA	NA	NA	NA	NA	NA	NA
TOTAL PECDD	NC	NC	NC	NA	NA	NA	NA	NA	NA	NA	NA	NA
TOTAL HXCDD	NC	NC	NC	NA	NA	NA	NA	NA	NA	NA	NA	NA
TOTAL HPCDD	NC	NC	NC	NA	NA	NA	NA	NA	NA	NA	NA	NA
TOTAL TCDF	NC	NC	NC	NA	NA	NA	NA	NA	NA	NA	NA	NA
TOTAL PECDF	NC	NC	NC	NA	NA	NA	NA	NA	NA	NA	NA	NA
TOTAL HXCDF	NC	NC	NC	NA	NA	NA	NA	NA	NA	NA	NA	NA
TOTAL HPCDF	NC	NC	NC	NA	NA	NA	NA	NA	NA	NA	NA	NA
TEQ WHO-2005	NC	NC	NC	NA	NA	NA	NA	NA	NA	NA	NA	NA
TEQ WHO-2005 - HALFND	NC	NC	NC	NA	NA	NA	NA	NA	NA	NA	NA	NA

Table 3-2

Soil Analytical Results
Site Assessment Report - Site 4
Fleet Logistics Center Jacksonville - Navy Fuel Depot
Jacksonville, Florida
Page 9 of 12

LOCATION	FDEP Residential SCTL	FDEP Industrial SCTL	FDEP Leachability SCTL	FLC-4-SB11	FLC-4-SB12	FLC-4-SB13		FLC-4-SB14		FLC-4-SS03	FLC-4-SS04	
SAMPLE IDENTIFICATION				FLC-4-SB11-0006-061212	FLC-4-SB12-0006-061212	FLC-4-SB13-0024-061212	FLC-4-SB13-0203-061212	FLC-4-SB14-0024-061212	FLC-4-SB14-0203-061212	FLC-4-SS03-0006-022112	FLC-4-SS04-0006-022112	FLC-4-SS04-0006-022112-AVG
SAMPLE DATE				20120612	20120612	20120612	20120612	20120612	20120612	20120221	20120221	20120221
SUBMATRIX				SS	SS	SS	SB	SS	SB	SS	SS	SS
TOP DEPTH				0	0	0	2	0	2	0	0	0
BOTTOM DEPTH				0.5	0.5	2	3	2	3	0.5	0.5	0.5
METALS (mg/kg)												
ARSENIC	2.1	12	NC	NA	NA	NA	NA	NA	NA	NA	NA	NA
BARIUM	120	130000	1600	NA	NA	NA	NA	NA	NA	NA	NA	NA
BERYLLIUM	120	1400	63	NA	NA	NA	NA	NA	NA	NA	NA	NA
CHROMIUM	210	470	38	NA	NA	NA	NA	NA	NA	NA	NA	NA
COPPER	150	89000	NC	NA	NA	NA	NA	NA	NA	NA	NA	NA
LEAD	400	1400	NC	NA	NA	NA	NA	NA	NA	NA	NA	NA
MERCURY	3	17	2.1	NA	NA	NA	NA	NA	NA	NA	NA	NA
NICKEL	340	35000	130	NA	NA	NA	NA	NA	NA	NA	NA	NA
ZINC	26000	630000	NC	NA	NA	NA	NA	NA	NA	NA	NA	NA
PETROLEUM HYDROCARBONS (mg/kg)												
TPH (C08-C40)	460	2700	340	NA	NA	NA	NA	NA	NA	NA	NA	NA
POLYCYCLIC AROMATIC HYDROCARBONS (mg/kg)												
1-METHYLNAPHTHALENE	200	1800	3.1	0.00955 U	0.00192 U	0.00202 U	0.00201 U	0.00198 U	0.00197 U	0.0175 U	0.0218 U	0.00768
2-METHYLNAPHTHALENE	210	2100	8.5	0.00955 U	0.00192 U	0.00202 U	0.0044 J	0.00198 U	0.00197 U	0.0175 U	0.0319 J	0.0222
ACENAPHTHYLENE	1800	20000	27	0.00955 U	0.00192 U	0.00202 U	0.00201 U	0.00198 U	0.00197 U	0.0452 J	0.0781 J	0.0691
ANTHRACENE	21000	300000	2500	0.00955 U	0.00192 U	0.00202 U	0.00201 U	0.00198 U	0.00197 U	0.0175 U	0.0333 J	0.02545
BAP EQUIVALENT-HALFND	0.1	0.7	8	0.059097	0.003401	0.00202 U	0.00201 U	0.00198 U	0.00197 U	**0.186679 [R]**	**0.289228 [R]**	**0.264711 [R]**
BAP EQUIVALENT-POS	0.1	0.7	8	0.054322	0.001385	0.00202 U	0.00201 U	0.00198 U	0.00197 U	**0.186679 [R]**	**0.289228 [R]**	**0.264711 [R]**
BENZO(A)ANTHRACENE	0.15	NC	0.8	0.0447	0.00192 U	0.00202 U	0.00201 U	0.00198 U	0.00197 U	0.0764	0.138	0.131
BENZO(A)PYRENE	0.1	0.7	8	0.0428	0.00192 U	0.00202 U	0.00201 U	0.00198 U	0.00197 U	**0.122 [R]**	**0.195 [R]**	**0.18 [R]**
BENZO(B)FLUORANTHENE	0.15	NC	2.4	0.0441	0.00856	0.00202 U	0.00201 U	0.00198 U	0.00197 U	0.139	**0.189 [R]**	**0.171 [R]**
BENZO(G,H,I)PERYLENE	2500	52000	32000	0.0285 J	0.00442 J	0.00202 U	0.00201 U	0.00198 U	0.00197 U	0.0901	0.145	0.1275
BENZO(K)FLUORANTHENE	1.5	NC	24	0.0421	0.00692 J	0.00202 U	0.00201 U	0.00198 U	0.00197 U	0.13	0.193	0.1805
CHRYSENE	15	NC	77	0.0517	0.00836	0.00202 U	0.00201 U	0.00198 U	0.00197 U	0.159	0.298	0.261
DIBENZO(A,H)ANTHRACENE	0.015	NC	0.7	0.00955 U	0.00192 U	0.00202 U	0.00201 U	0.00198 U	0.00197 U	**0.0348 J[R]**	**0.048 J[R]**	**0.0423 [R]**
FLUORANTHENE	3200	59000	1200	0.101	0.0112	0.00202 U	0.00201 U	0.00198 U	0.00197 U	0.114	0.226	0.2085
INDENO(1,2,3-CD)PYRENE	0.15	NC	6.6	0.0217 J	0.00452 J	0.00202 U	0.00201 U	0.00198 U	0.00197 U	0.0688 J	0.113	0.10145
NAPHTHALENE	55	300	1.2	0.00955 U	0.00192 U	0.00202 U	0.00201 U	0.00198 U	0.00197 U	0.0175 U	0.0394 J	0.02655
PHENANTHRENE	2200	36000	250	0.0647	0.00725 J	0.00202 U	0.00201 U	0.00198 U	0.00197 U	0.0356 J	0.0841 J	0.0808
PYRENE	2400	45000	880	0.0917	0.0143	0.00202 U	0.00201 U	0.00198 U	0.00197 U	0.193	0.368	0.329
VOLATILES (mg/kg)												
2-BUTANONE	16000	110000	17	NA	NA	NA	NA	NA	NA	NA	NA	NA
ACETONE	11000	68000	25	NA	NA	NA	NA	NA	NA	NA	NA	NA
BENZENE	1.2	1.7	0.007	NA	NA	NA	NA	NA	NA	NA	NA	NA
ETHYLBENZENE	1500	9200	0.6	NA	NA	NA	NA	NA	NA	NA	NA	NA
M+P-XYLENES	NC	NC	NC	NA	NA	NA	NA	NA	NA	NA	NA	NA

Table 3-2

Soil Analytical Results
Site Assessment Report - Site 4
Fleet Logistics Center Jacksonville - Navy Fuel Depot
Jacksonville, Florida
Page 10 of 12

LOCATION	FDEP Residential SCTL	FDEP Industrial SCTL	FDEP Leachability SCTL	FLC-4-SB11	FLC-4-SB12	FLC-4-SB13		FLC-4-SB14		FLC-4-SS03	FLC-4-SS04	
SAMPLE IDENTIFICATION				FLC-4-SB11-0006-061212	FLC-4-SB12-0006-061212	FLC-4-SB13-0024-061212	FLC-4-SB13-0203-061212	FLC-4-SB14-0024-061212	FLC-4-SB14-0203-061212	FLC-4-SS03-0006-022112	FLC-4-SS04-0006-022112	FLC-4-SS04-0006-022112-AVG
SAMPLE DATE				20120612	20120612	20120612	20120612	20120612	20120612	20120221	20120221	20120221
SUBMATRIX				SS	SS	SS	SB	SS	SB	SS	SS	SS
TOP DEPTH				0	0	0	2	0	2	0	0	0
BOTTOM DEPTH				0.5	0.5	2	3	2	3	0.5	0.5	0.5
VOLATILES (mg/kg)												
METHYLENE CHLORIDE	17	26	0.02	NA	NA	NA	NA	NA	NA	NA	NA	NA
O-XYLENE	NC	NC	NC	NA	NA	NA	NA	NA	NA	NA	NA	NA
TOLUENE	7500	60000	0.5	NA	NA	NA	NA	NA	NA	NA	NA	NA
DIOXINS/FURANS (pg/g)												
1,2,3,7,8-PECDD	18	NC	NC	NA	NA	NA	NA	NA	NA	NA	NA	NA
1,2,3,4,7,8-HXCDD	180	NC	NC	NA	NA	NA	NA	NA	NA	NA	NA	NA
1,2,3,6,7,8-HXCDD	180	NC	NC	NA	NA	NA	NA	NA	NA	NA	NA	NA
1,2,3,7,8,9-HXCDD	180	NC	NC	NA	NA	NA	NA	NA	NA	NA	NA	NA
1,2,3,4,6,7,8-HPCDD	1800	NC	NC	NA	NA	NA	NA	NA	NA	NA	NA	NA
1,2,3,4,6,7,8,9-OCDD	60000	NC	NC	NA	NA	NA	NA	NA	NA	NA	NA	NA
2,3,4,7,8-PECDF	60	NC	NC	NA	NA	NA	NA	NA	NA	NA	NA	NA
1,2,3,4,7,8-HXCDF	180	NC	NC	NA	NA	NA	NA	NA	NA	NA	NA	NA
1,2,3,6,7,8-HXCDF	180	NC	NC	NA	NA	NA	NA	NA	NA	NA	NA	NA
2,3,4,6,7,8-HXCDF	180	NC	NC	NA	NA	NA	NA	NA	NA	NA	NA	NA
1,2,3,4,6,7,8-HPCDF	1800	NC	NC	NA	NA	NA	NA	NA	NA	NA	NA	NA
1,2,3,4,7,8,9-HPCDF	1800	NC	NC	NA	NA	NA	NA	NA	NA	NA	NA	NA
1,2,3,4,6,7,8,9-OCDF	60000	NC	NC	NA	NA	NA	NA	NA	NA	NA	NA	NA
TOTAL PECDD	NC	NC	NC	NA	NA	NA	NA	NA	NA	NA	NA	NA
TOTAL HXCDD	NC	NC	NC	NA	NA	NA	NA	NA	NA	NA	NA	NA
TOTAL HPCDD	NC	NC	NC	NA	NA	NA	NA	NA	NA	NA	NA	NA
TOTAL TCDF	NC	NC	NC	NA	NA	NA	NA	NA	NA	NA	NA	NA
TOTAL PECDF	NC	NC	NC	NA	NA	NA	NA	NA	NA	NA	NA	NA
TOTAL HXCDF	NC	NC	NC	NA	NA	NA	NA	NA	NA	NA	NA	NA
TOTAL HPCDF	NC	NC	NC	NA	NA	NA	NA	NA	NA	NA	NA	NA
TEQ WHO-2005	NC	NC	NC	NA	NA	NA	NA	NA	NA	NA	NA	NA
TEQ WHO-2005 - HALFND	NC	NC	NC	NA	NA	NA	NA	NA	NA	NA	NA	NA

Table 3-2

Soil Analytical Results
Site Assessment Report - Site 4
Fleet Logistics Center Jacksonville - Navy Fuel Depot
Jacksonville, Florida
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LOCATION	FDEP Residential SCTL	FDEP Industrial SCTL	FDEP Leachability SCTL	**FLC-4-SS04**	**FLC-4-SSC**		**FLC-4-SBC**
SAMPLE IDENTIFICATION				FLC-4-SS04-0006-022112-D	FLC-4-SSC-0006-092211	FLC-4-SSC-0624-092211	FLC-4-SBC-0204-092211
SAMPLE DATE				20120221	20120922	20120922	20120922
SUBMATRIX				SS	SS	SS	SB
TOP DEPTH				0	0	0.5	2
BOTTOM DEPTH				0.5	0.5	2	4
METALS (mg/kg)							
ARSENIC	2.1	12	NC	NA	NA	NA	NA
BARIUM	120	130000	1600	NA	NA	NA	NA
BERYLLIUM	120	1400	63	NA	NA	NA	NA
CHROMIUM	210	470	38	NA	NA	NA	NA
COPPER	150	89000	NC	NA	NA	NA	NA
LEAD	400	1400	NC	NA	NA	NA	NA
MERCURY	3	17	2.1	NA	NA	NA	NA
NICKEL	340	35000	130	NA	NA	NA	NA
ZINC	26000	630000	NC	NA	NA	NA	NA
PETROLEUM HYDROCARBONS (mg/kg)							
TPH (C08-C40)	460	2700	340	NA	NA	NA	NA
POLYCYCLIC AROMATIC HYDROCARBONS (mg/kg)							
1-METHYLNAPHTHALENE	200	1800	3.1	0.00768	NA	NA	NA
2-METHYLNAPHTHALENE	210	2100	8.5	0.0125 J	NA	NA	NA
ACENAPHTHYLENE	1800	20000	27	0.0601	NA	NA	NA
ANTHRACENE	21000	300000	2500	0.0176 J	NA	NA	NA
BAP EQUIVALENT-HALFND	0.1	0.7	8	**0.240194 [R]**	NA	NA	NA
BAP EQUIVALENT-POS	0.1	0.7	8	**0.240194 [R]**	NA	NA	NA
BENZO(A)ANTHRACENE	0.15	NC	0.8	0.124	NA	NA	NA
BENZO(A)PYRENE	0.1	0.7	8	**0.165 [R]**	NA	NA	NA
BENZO(B)FLUORANTHENE	0.15	NC	2.4	**0.153 [R]**	NA	NA	NA
BENZO(G,H,I)PERYLENE	2500	52000	32000	0.11	NA	NA	NA
BENZO(K)FLUORANTHENE	1.5	NC	24	0.168	NA	NA	NA
CHRYSENE	15	NC	77	0.224	NA	NA	NA
DIBENZO(A,H)ANTHRACENE	0.015	NC	0.7	**0.0366 [R]**	NA	NA	NA
FLUORANTHENE	3200	59000	1200	0.191	NA	NA	NA
INDENO(1,2,3-CD)PYRENE	0.15	NC	6.6	0.0899	NA	NA	NA
NAPHTHALENE	55	300	1.2	0.0137 J	NA	NA	NA
PHENANTHRENE	2200	36000	250	0.0775	NA	NA	NA
PYRENE	2400	45000	880	0.29	NA	NA	NA
VOLATILES (mg/kg)							
2-BUTANONE	16000	110000	17	NA	NA	NA	NA
ACETONE	11000	68000	25	NA	NA	NA	NA
BENZENE	1.2	1.7	0.007	NA	NA	NA	NA
ETHYLBENZENE	1500	9200	0.6	NA	NA	NA	NA
M+P-XYLENES	NC	NC	NC	NA	NA	NA	NA

Table 3-2

Soil Analytical Results
Site Assessment Report - Site 4
Fleet Logistics Center Jacksonville - Navy Fuel Depot
Jacksonville, Florida
Page 12 of 12

LOCATION	FDEP Residential SCTL	FDEP Industrial SCTL	FDEP Leachability SCTL	**FLC-4-SS04**	**FLC-4-SSC**		**FLC-4-SBC**
SAMPLE IDENTIFICATION				FLC-4-SS04-0006-022112-D	FLC-4-SSC-0006-092211	FLC-4-SSC-0624-092211	FLC-4-SBC-0204-092211
SAMPLE DATE				20120221	20120922	20120922	20120922
SUBMATRIX				SS	SS	SS	SB
TOP DEPTH				0	0	0.5	2
BOTTOM DEPTH				0.5	0.5	2	4
VOLATILES (mg/kg)							
METHYLENE CHLORIDE	17	26	0.02	NA	NA	NA	NA
O-XYLENE	NC	NC	NC	NA	NA	NA	NA
TOLUENE	7500	60000	0.5	NA	NA	NA	NA
DIOXINS/FURANS (pg/g)							
1,2,3,7,8-PECDD	18	NC	NC	NA	4.73	4.46 JK	0.57 J
1,2,3,4,7,8-HXCDD	180	NC	NC	NA	13.4	11.2 JK	2.53 J
1,2,3,6,7,8-HXCDD	180	NC	NC	NA	34.3	28.5 JK	4.89
1,2,3,7,8,9-HXCDD	180	NC	NC	NA	22.3	18 JQ	4.96
1,2,3,4,6,7,8-HPCDD	1800	NC	NC	NA	1670	1630	238
1,2,3,4,6,7,8,9-OCDD	60000	NC	NC	NA	11000 E	11900	1580
2,3,4,7,8-PECDF	60	NC	NC	NA	0.706 J	5.69 U	0.349 U
1,2,3,4,7,8-HXCDF	180	NC	NC	NA	9.11	10.4 J	1.24 J
1,2,3,6,7,8-HXCDF	180	NC	NC	NA	1.54 JK	4.23 U	0.241 JK
2,3,4,6,7,8-HXCDF	180	NC	NC	NA	2.1 J	4.69 U	0.418 J
1,2,3,4,6,7,8-HPCDF	1800	NC	NC	NA	18.6	19.6 J	2.46 J
1,2,3,4,7,8,9-HPCDF	1800	NC	NC	NA	1.8 J	4.27 U	0.37 U
1,2,3,4,6,7,8,9-OCDF	60000	NC	NC	NA	19.1	22.8 J	2.6 J
TOTAL PECDD	NC	NC	NC	NA	17.4 Q	4.33 U	0.57 J
TOTAL HXCDD	NC	NC	NC	NA	394 Q	348	57.4
TOTAL HPCDD	NC	NC	NC	NA	3290 E	3220	465
TOTAL TCDF	NC	NC	NC	NA	1.76	3.26 U	0.24 U
TOTAL PECDF	NC	NC	NC	NA	8.92 Q	5.07 J	0.45 J
TOTAL HXCDF	NC	NC	NC	NA	55.1 Q	35.9 J	6.97
TOTAL HPCDF	NC	NC	NC	NA	40.8	38.4 J	5.81
TEQ WHO-2005	NC	NC	NC	NA	33.3	25.8	4.85
TEQ WHO-2005 - HALFND	NC	NC	NC	NA	33.5	33	5.11

Notes:
NA = not analyzed
Black highlight indicates an exceedance of the residential SCTL (R = Residential, I = Industrial, and L = Leachability).
U = Result is less than laboratory method detection limit.
J = Result is an estimated laboratory value.
K = Estimated Maximum Possible Concentration
Q = Quantitative Interference
E = Value is estimated - Concentration of the target analyte exceeds the instrument calibration range.
NC - No concentration for analyte.
BAP EQ HALFND - Result includes value of one-half the Method Detection Limit for non-detects.
BAP EQ POS - Result includes detected concentrations only.

PGH M:\GIS\PROJECTS\JAX FLEET LOGISTICS CENTER\MXD\SITE 4 FIGURES\FIGURE_3_3_SOILS_PHASE_I_.MXD 03/12/13 JM

Legend

- Soil Locations with Exceedances
- Soil Locations without Exceedances
- Installation Area
- Site Boundary
- Fence Line
- Railroad

Analyte	FDEP Residential SCTL
BAP EQUIVALENT-POS	0.1
BENZO(A)ANTHRACENE	0.15
BENZO(A)PYRENE	0.1
BENZO(B)FLUORANTHENE	0.15
BENZO(K)FLUORANTHENE	1.5
DIBENZO(A,H)ANTHRACENE	0.015
INDENO(1,2,3-CD)PYRENE	0.15

Notes:
All results in mg/kg
U - Result is less than laboratory method detection limit
J - Result is estimated laboratory value
bls - below land surface

DRAWN BY	DATE
J. MADDEN	1/28/13
CHECKED BY	DATE
B. MARSHALL	03/12/13
REVISED BY	DATE
SCALE	
AS NOTED	

NAVFAC

SOIL RESULTS TAG MAP
PHASE I
FLEET LOGISTICS CENTER JACKSONVILLE - NAVY FUEL DEPOT
JACKSONVILLE, FLORIDA

CONTRACT NUMBER	CTO NUMBER
APPROVED BY	DATE
APPROVED BY	DATE
FIGURE NO. 3-3	REV 0

3.3.1.2 Phase II

Analysis of soil samples revealed the presence of PAH compounds exceeding the residential SCTL in four boring locations (FLC-4-P02, FLC-4-SB07, FLC-4-SB08, and FLC-4-SB09) in surface and subsurface intervals. Exceedances were found in the 0 to 2, 2 to 4, 4 to 5, and 4 to 6 feet bls intervals. No exceedances were found in surface samples at boring locations FLC-4-SB05 and FLC-4-SB06. Soil sample FLC-4-P05 was not analyzed because the adjacent soil sample, FLC-4-P06, did not show any exceedances. The analytical results for soil samples exceeding the residential FDEP SCTLs are summarized in Table 3-2. The Phase I and Phase II soil sample locations are identified on Figure 3-4.

3.3.1.3 Phase III

Analysis of soil samples revealed no exceedance for PAH compounds for the residential SCTL in each of the five additional soil sample locations. The analytical results for soil samples exceeding the residential FDEP SCTLs are summarized in Table 3-2. The Phase I, II, and III soil sample locations are presented with tags indicating the concentration and depth on Figure 3-5.

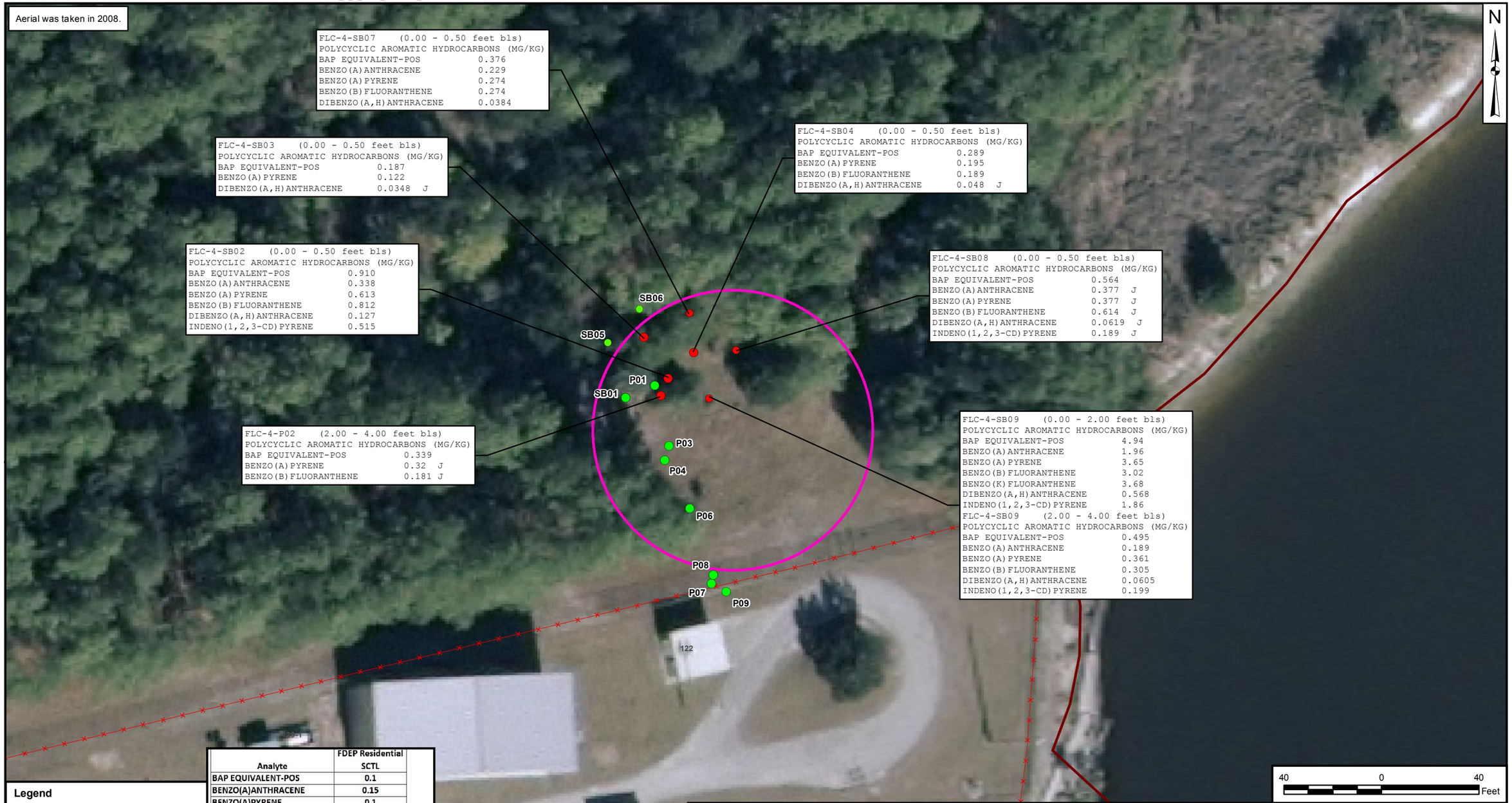
3.3.1.4 Soil Results Summary

Analytical results for soil samples revealed primarily surface and some subsurface soil exceedances for PAHs at Site 4. The area of impacted soil is estimated to be 2,000 square feet. Using an average depth of 2 feet of impacted soils, the volume of impacted soils is approximately 150 cubic yards or 200 tons (using a sand density of 1.35 tons per cubic yard). The estimated areal extent of impacted soils is presented in Figure 3-6. Since groundwater results show no impacts the leaching of the PAH, impacts from the soil to groundwater is no concern. Analytical tables displaying all soil analytical results are provided in Appendix D, and the laboratory analytical reports are provided in Appendix E.

3.3.2 Groundwater Analytical Results

Groundwater samples were taken from three monitoring wells installed at Site 4. Detections were reported for arsenic and barium however no sample results exceeded the FDEP GCTLs. Details for Phases I and II groundwater assessment are reported in the following subsections. No groundwater assessment was required for Phase III.

JAX M:\GIS\PROJECTS\JAX FLEET LOGISTICS CENTER\MXD\SITE 4 FIGURES\FIGURE_3_4_SOIL_PHASEII_TAGS.MXD 03/12/13 JM



Legend

- Soil Locations with Exceedances
- Soil Locations without Exceedances
- Installation Area
- Site Boundary
- Fence Line
- Railroad

Analyte	FDEP Residential SCTL
BAP EQUIVALENT-POS	0.1
BENZO(A)ANTHRACENE	0.15
BENZO(A)PYRENE	0.1
BENZO(B)FLUORANTHENE	0.15
BENZO(K)FLUORANTHENE	1.5
DIBENZO(A,H)ANTHRACENE	0.015
INDENO(1,2,3-CD)PYRENE	0.15

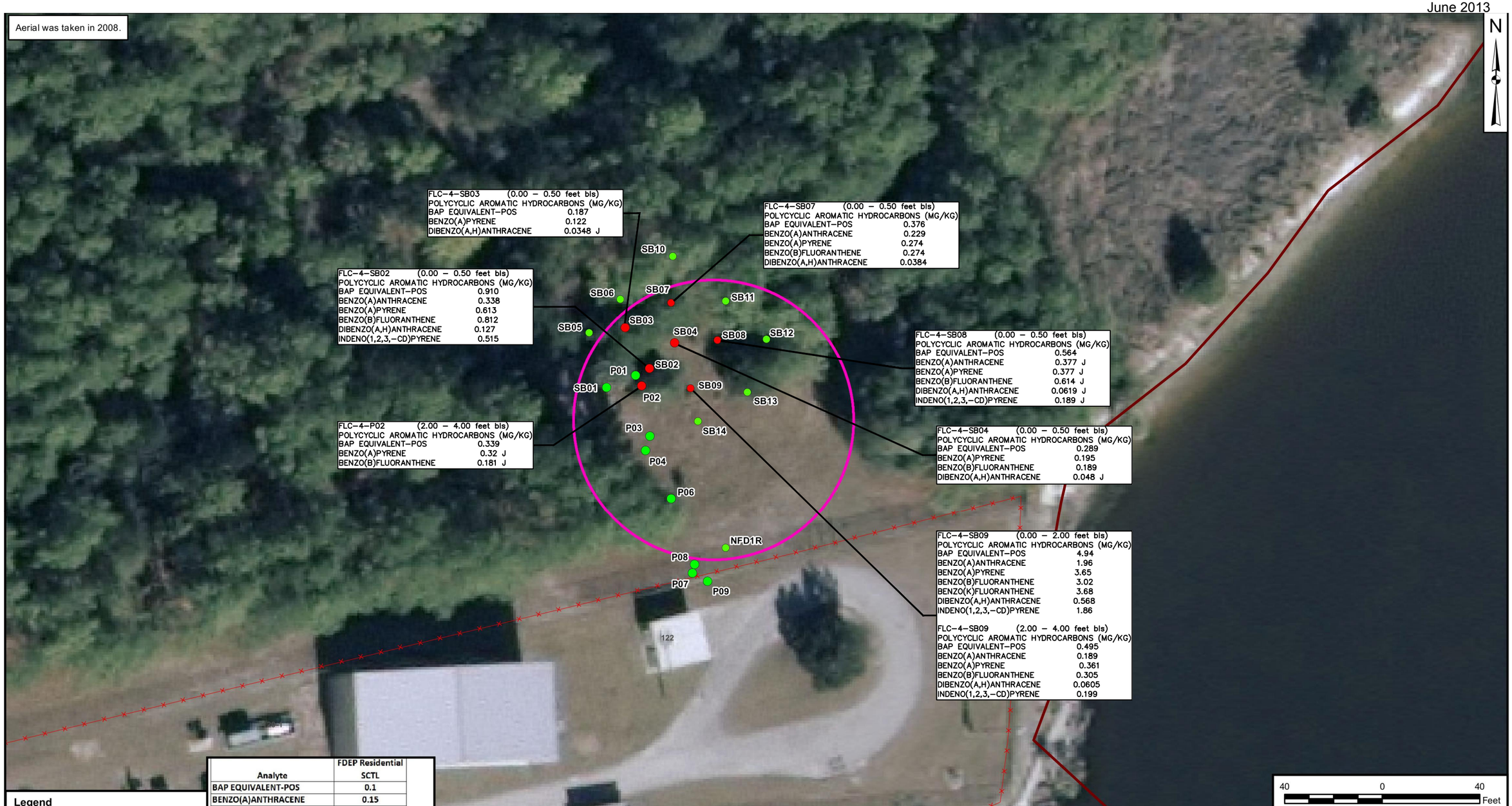
Notes:
All results in mg/kg
U - Result is less than laboratory method detection limit
J - Result is estimated laboratory value
bls - below land surface

DRAWN BY J. MADDEN	DATE 1/29/13
CHECKED BY B. MARSHALL	DATE 03/12/13
REVISED BY	DATE
SCALE AS NOTED	

NAVFAC

SOIL RESULTS TAG MAP
PHASE I, II
FLEET LOGISTICS CENTER JACKSONVILLE - NAVY FUEL DEPOT
JACKSONVILLE, FLORIDA

CONTRACT NUMBER	CTO NUMBER
APPROVED BY	DATE
APPROVED BY	DATE
FIGURE NO. 3-4	REV 0



Legend

- Soil Locations with Exceedances
- Soil Locations without Exceedances
- Installation Area
- Site Boundary
- Fence Line
- Railroad

Analyte	FDEP Residential SCTL
BAP EQUIVALENT-POS	0.1
BENZO(A)ANTHRACENE	0.15
BENZO(A)PYRENE	0.1
BENZO(B)FLUORANTHENE	0.15
BENZO(K)FLUORANTHENE	1.5
DIBENZO(A,H)ANTHRACENE	0.015
INDENO(1,2,3-CD)PYRENE	0.15

Notes:
All results in mg/kg
U - Result is less than laboratory method detection limit
J - Result is estimated laboratory value
bls - below land surface

DRAWN BY	DATE
J. MADDEN	1/29/13
CHECKED BY	DATE
B. MARSHALL	03/11/13
REVISED BY	DATE
SCALE	
AS NOTED	

NAVFAC

SOIL RESULTS TAG MAP
PHASE I, II, III
FLEET LOGISTICS CENTER JACKSONVILLE - NAVY FUEL DEPOT
JACKSONVILLE, FLORIDA

CONTRACT NUMBER	CTO NUMBER
APPROVED BY	DATE
APPROVED BY	DATE
FIGURE NO. 3-5	REV 0

JAX M:\GIS\PROJECTS\JAX FLEET LOGISTICS CENTER\MXD\SITE 4 FIGURES\FIGURE_3-6_SOIL_EXTEND_EXCEEDS.MXD 03/14/13 JM

DRAWN BY	DATE
J. MADDEN	1/28/12
CHECKED BY	DATE
B. MARSHALL	03/14/13
REVISED BY	DATE
J.MADDEN	03/14/13
SCALE	
AS NOTED	

NAVFAC

ESTIMATED AREAL EXTENT OF
SOIL EXCEEDANCES
FLEET LOGISTICS CENTER JACKSONVILLE - NAVY FUEL DEPOT
JACKSONVILLE, FLORIDA

CONTRACT NUMBER	CTO NUMBER
APPROVED BY	DATE
APPROVED BY	DATE
FIGURE NO. 3-6	REV 0

3.3.2.1 Phase I: September 2011

Groundwater samples analyzed from the two shallow groundwater monitoring wells (FLC-4-MW01 and FLC-4-MW02) installed adjacent to the former burn kettle did not exceed FDEP GCTLs for VOCs, SVOCs, PAHs, metals, PCBs, or TPH. A comparison of the un-filtered samples and filtered samples for metals analysis revealed no significant difference.

3.3.2.2 Phase II: July 2012

The groundwater sample collected from downgradient monitoring well FLC-4-MW-NFD1R revealed no exceedances for PAHs. Hence, no groundwater impacts were found at Site 4.

3.3.2.3 Groundwater Results Summary

Groundwater samples collected during Phase I and Phase II from three shallow monitoring wells reveals no exceedances of the FDEP GCTLs. Analytical tables displaying all groundwater analytical results are provided in Appendix D, and the laboratory analytical reports are provided in Appendix E.

4.0 SITE 4 CONCLUSIONS AND RECOMMENDATIONS

This SAR presents information that characterizes the nature and extent of soil contamination associated with Site 4 at the FLC Jacksonville – Navy Fuel Depot in Jacksonville, Florida. The SAR was prepared in general accordance with FDEP Chapter 62-780, F.A.C., per agreement by the Partnering Team. Sample results indicate there are soil impacts exceeding FDEP CTLs at the site, and these exceedances indicate that a potential risk to human health and the environment exists. Hence, remedial actions are recommended in this section.

Site assessment results show that soil is impacted with PAH compounds exceeding FDEP Residential SCTLs in surface and subsurface soils. The area of impacted soil is estimated to be 2,800 square feet. Using an average depth of 2 feet, the volume of impacted soil is estimated to be 200 cubic yards or 275 tons. (Note: The volume of soil impacted exceeding Industrial SCTLs is estimated to be 55 cubic yards or 75 tons.) Groundwater sample results show no groundwater impacts exceeding FDEP GCTLs at the site, and there is no indication that leaching of soil contaminants of concern is occurring.

Following the FDEP Chapter 62-780, F.A.C. Risk Management Options (RMO) Flow Process:

- The site does not qualify for RMO Level I (no further action [NFA] without controls) since soil levels exceed FDEP Residential SCTLs. For the site to qualify for RMO Level I (NFA without controls), remediation of impacted soils exceeding residential SCTLs must be implemented.

- The site does not qualify for RMO Level II (NFA with controls without a Risk Assessment) since soil levels exceeding FDEP Industrial SCTLs. For the site to quality for RMO Level II (NFA with controls without a Risk Assessment), one (or combination) of the following actions must be implemented:

    - Impacted Soil exceeding Industrial SCTLs will have to be remediated.
    - Site controls will have to be implemented to prevent exposure.
    - Alternative CTLs should be calculated and compared with soil concentrations.

Since the volume of soils (200 cubic yards) exceeding FDEP Residential SCTLs is small, Tetra Tech recommends removal of the impacted soils and closure of the site under RMO Level I. Removal of the underground pipe formally connected to the burn kettle should also be removed. Details for site closure will be provided in a Remedial Action Plan.

REFERENCES

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APPENDIX A

PARTNERING TEAM MEETING PRESENTATIONS

DQO Meeting
FISC – Navy Fuel Depot

Sites 4 & 5

Jacksonville, Florida

February 16, 2011

Site 4 - Background

Former Burn Kettle & Slurry Burn Pit

- Burn Kettle operated from ~mid to late 1960s
- Burn kettle used for incineration of off-grade petroleum tank cleaning sludge oils diesel fuels, and trash.
- Slurry Burn Pit was located near the burn kettle and operated from ~mid to late 1960s and used to incinerate off grade oils and trash
- Burn kettle removed in late 2007
- Approximately 250K gallons disposed at Site 4.
- Slurry pit was excavated as reported by the 1983 Hart Associates Report
- Aerial extent of Site 4 based on field observations is approximately ¼ acre
- Current Field Observations indicates a release: stressed vegetation, hard-crusted sludge on surface soil in vicinity of kettle
- Unknowns: Former burn kettle had underground pipe connection. The length/direction/endpoint of the pipe is unknown. Utility detection planned on 2/17/2011 to trace pipe. Location of slurry pit (30'x50') is unknown.

Site 4 – Limited Assessment History

Former Burn Kettle/Slurry Burn Pit

- In 1983 –Monitoring well NFD-1 was sampled for VOCs and metals only and results indicated (2) VOCs at trace levels and no metal detections(no tables or analytical reports available). No formal closure report available.
- In 2007 – Prior to Burn Kettle removal, (2) surface soil samples collected on each side of the burn kettle indicated TRPH exceedances (3,860 mg/kg and 6,610 mg/kg)

Sites 4 with estimated site boundary

Site 5 - Background

Former Sludge Pond/Land Spreading-Disposal Area

- Operated from ~ mid 1950s – early 1970s
- Used for disposal of Waste Oils(from ships), JP-5 fuels mixed with TEL tank cleaning sludge, garbage?, wood and debris. Approximately 250K gallons of liquids disposed at site.
- Pond was filled and current field observation indicates no surface liquids are visible. Soils was pushed into berms at site boundary.
- Aerial extent of Site 5 based on field observation is approximately 3.5 acres
- Historical photo from 1969 indicates a sludge pond existed at the site
- Current field observation indicates a release: stressed vegetation, hard-crusted sludge on surface soil inside site boundary and on berm soil

Site 5 – Limited Assessment History

Former Sludge pond and disposal area

- In 1983 – Confirmation Study collected (32) SB, however only (2) soil samples taken and analyzed for EP Toxicity and metals. Results for soil samples indicated non-hazardous waste (no tables or analytical reports available)
- In 1983 – (2) MWs were also installed (NFD-1 and NFD-2) and tested for VOCs, cyanide and metals. No exceedances were reported (no tables or analytical reports available).
- Confirmation Study recommended install of (2) additional MWs
- In 1986 – (2) MWs installed (NFD-3 and NFD-4) and wells NFD-2,3,4 were sampled for aromatic and petroleum hydrocarbon compounds. Results for groundwater samples indicated petroleum hydrocarbon detections at 1 mg/L in NFD-2 and NFD-3. (no tables or analytical reports available)
- In 2007 – (1) surface soil sample collected in the pond area indicated a TRPH exceedance (16,900 mg/kg)

Site 5 with estimated site boundary

Site 5 – Historic Sample Location Map

Former Sludge pond and disposal area

Geraghty & Miller, Inc.

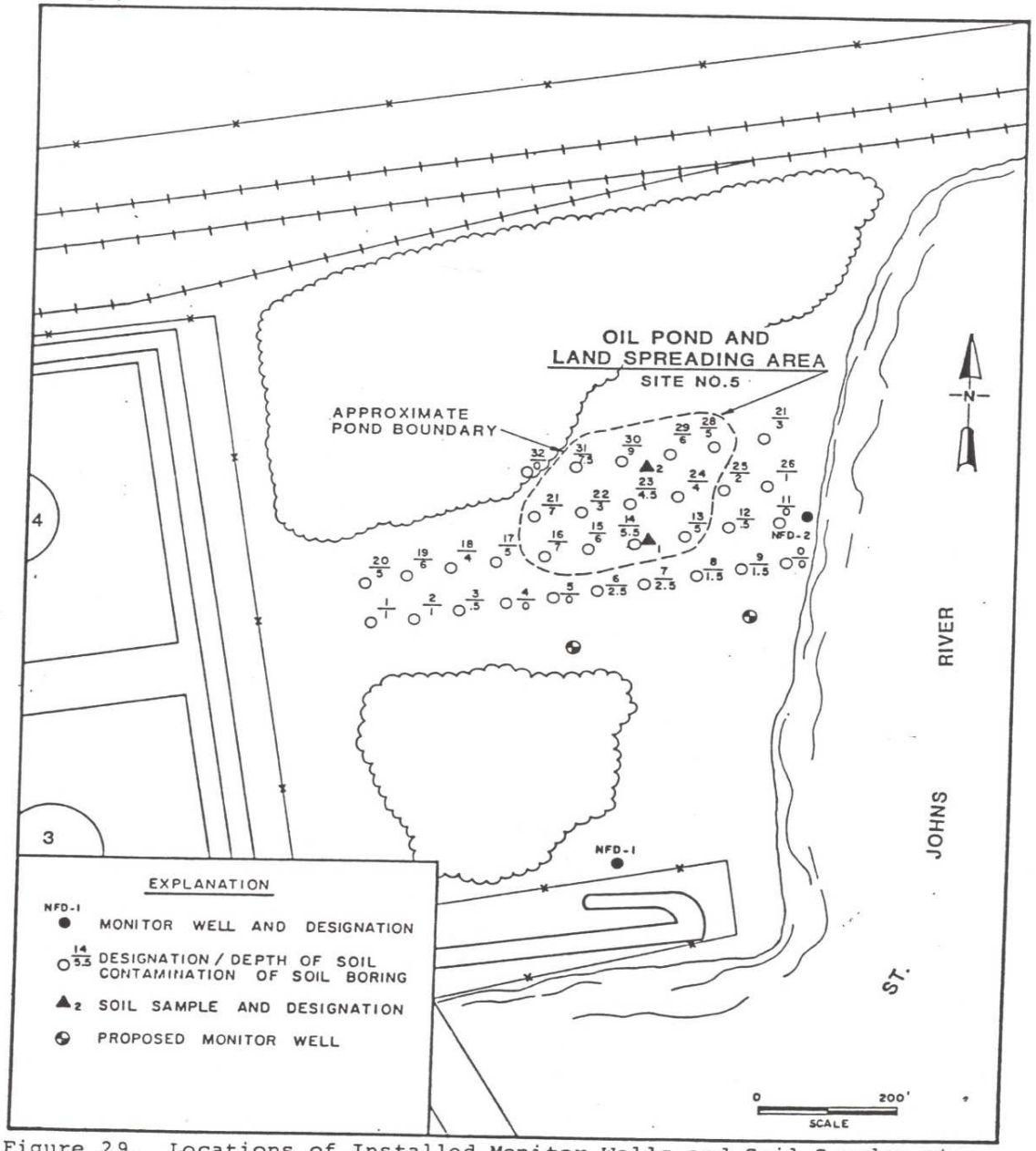


Figure 29. Locations of Installed Monitor Wells and Soil Samples at the Oil Pond and Land Spreading Area (Site No. 5-NFD)

Sites 4,5 – Monitoring Well Location Map

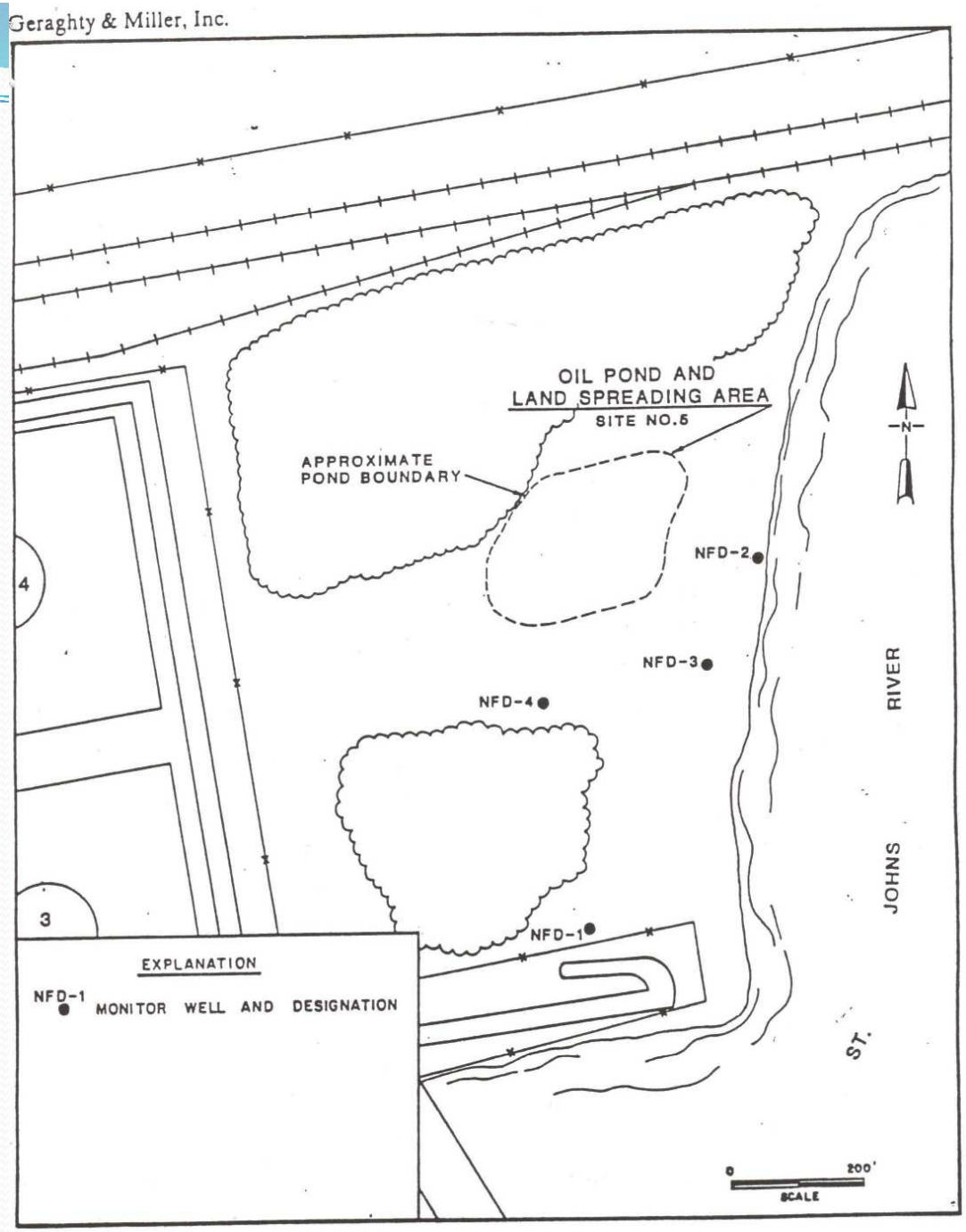


Figure 11. Well Locations, NFD Site No. 5

Historical Photo - 1943

Historical Photo - 1952

Historical Photo - 1969

Historical Photo - 1975

Historical Photo - 1988

Historical Photo - 1997

Historical Photo – 2009 (with field determined site boundaries)

Project Goals

Sites 4 & 5 site assessments

- Prepare SAP to determine the nature and extent of impacted soils/groundwater at Site 4 & Site 5
- Conduct assessment per FDEP chapter 62-780 F.A.C. – Contaminated Site Cleanup Criteria
- Prepare SA reports Site 4 & Site 5 per 62-780 guidelines
- Results of each SA report will provide the necessary data to support the next step of determining the appropriate risk based level (RMO 1,2,3) for Site 4 & Site 5

Assessment Approach – 3 Phases

- Phase I
  - Determine COCs for Site 4 and Site 5 by sampling soil and groundwater in area's indicating a release
- Phase II
  - Determine extent (lateral/vertical) of soil and groundwater impacts within the facility boundaries
- Phase III
  - As necessary, conduct limited soil and groundwater sampling to address any data gaps in the SA

Assessment Process- Phase I

- To determine COCs during first assessment the analysis for soil and groundwater (no sediments or surface water) includes:
  - VOCs
  - SVOCs
  - PAHs
  - RCRA metals
  - TRPH (speciated MA DEP method)
  - Dioxins/Furans (only Site 4 surface soil)
- Soil samples collected from 0-6”, 6”-2’, 2’-4’, 4’-6’. [Note that site groundwater level will likely eliminate the 4’-6’ soil sample interval.]
- Groundwater samples collected from MWs installed in initial soil boring locations and from existing MWs

Sites 4 & 5

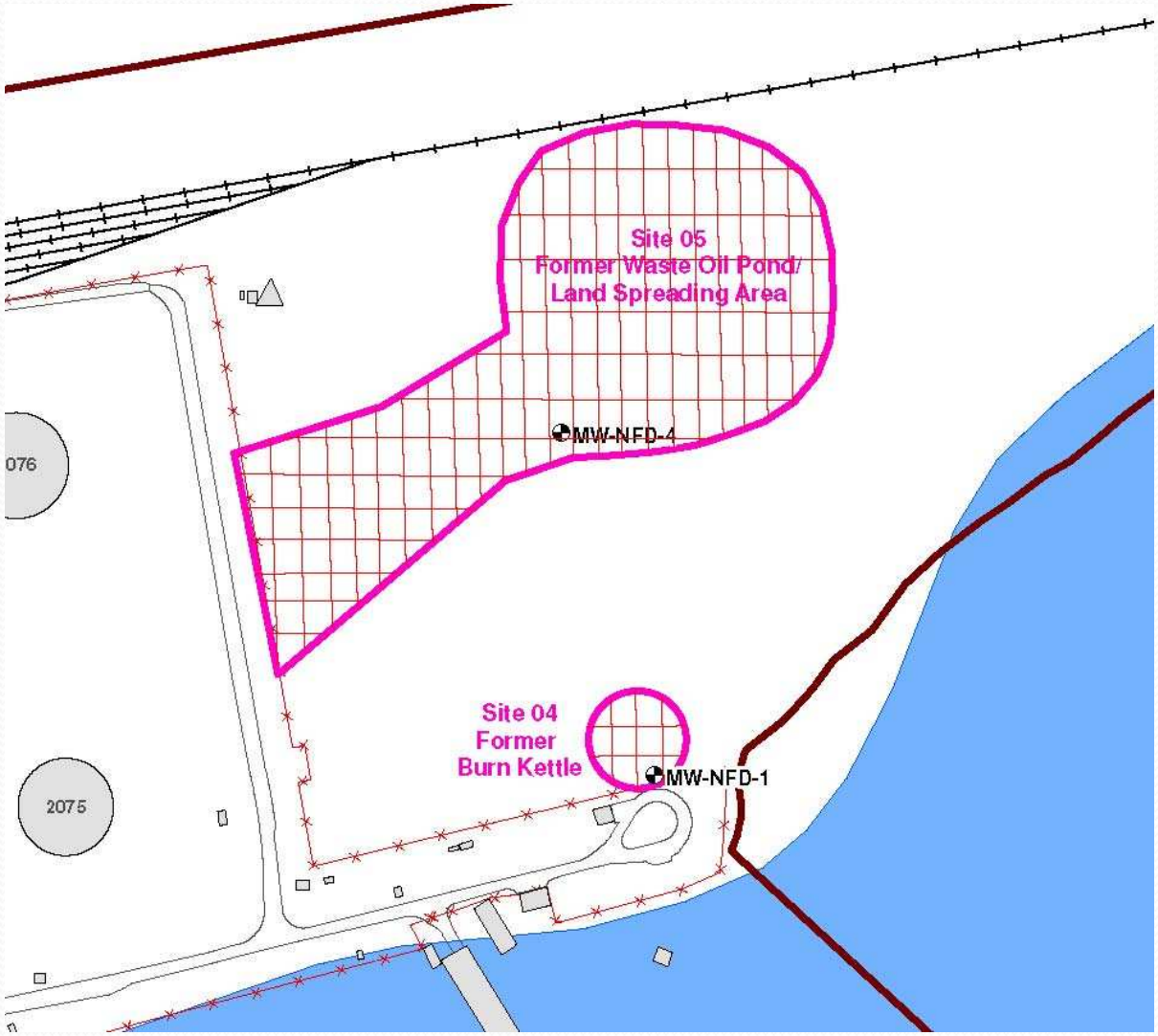
Initial soil & groundwater sample locations

Assessment Process- Phase II

- COCs determined in Phase I will be retained for the remainder of the project
- Step-out soil samples will be collected starting from original locations identified in Phase I
- Field observations will be conducted on each step-out (FID and visual inspection)
- Step-outs will be continued until no indication of contamination is present or facility boundary is reached
- All step-outs will be submitted for laboratory analysis of COCs determined in Phase I
- Adjust site boundary from Phase II results
- Collect soil samples inside proposed grid network that will meet the minimum soil sample requirements for UCL statistical analysis (at least 10 soil samples (per sample interval) per ¼ acre)
- Install MWs based on Phase I and Phase II results to determine extent (lateral/vertical) of groundwater impacts

Sites 4 & 5

Proposed sample grid (min. of 10 samples per ¼ acre)



Assessment Process- Phase III

- If necessary, collect limited additional soil and groundwater data to fill in any data gaps from Phase II depending on budget restrictions.

Site Assessment Decision Rules

- COC Selection Rule
  - For each target analyte in each investigated medium, if the maximum chemical concentration does not exceed the PAL, then exclude the chemical from further consideration. Otherwise retain the chemical as a COC for that medium.

- Delineation Decision Rule
  - If the measured concentrations of soil and groundwater COCs are sufficient to delineate the extent of contamination in those media, then stop collection of data. Otherwise continue sampling to delineate site contamination.

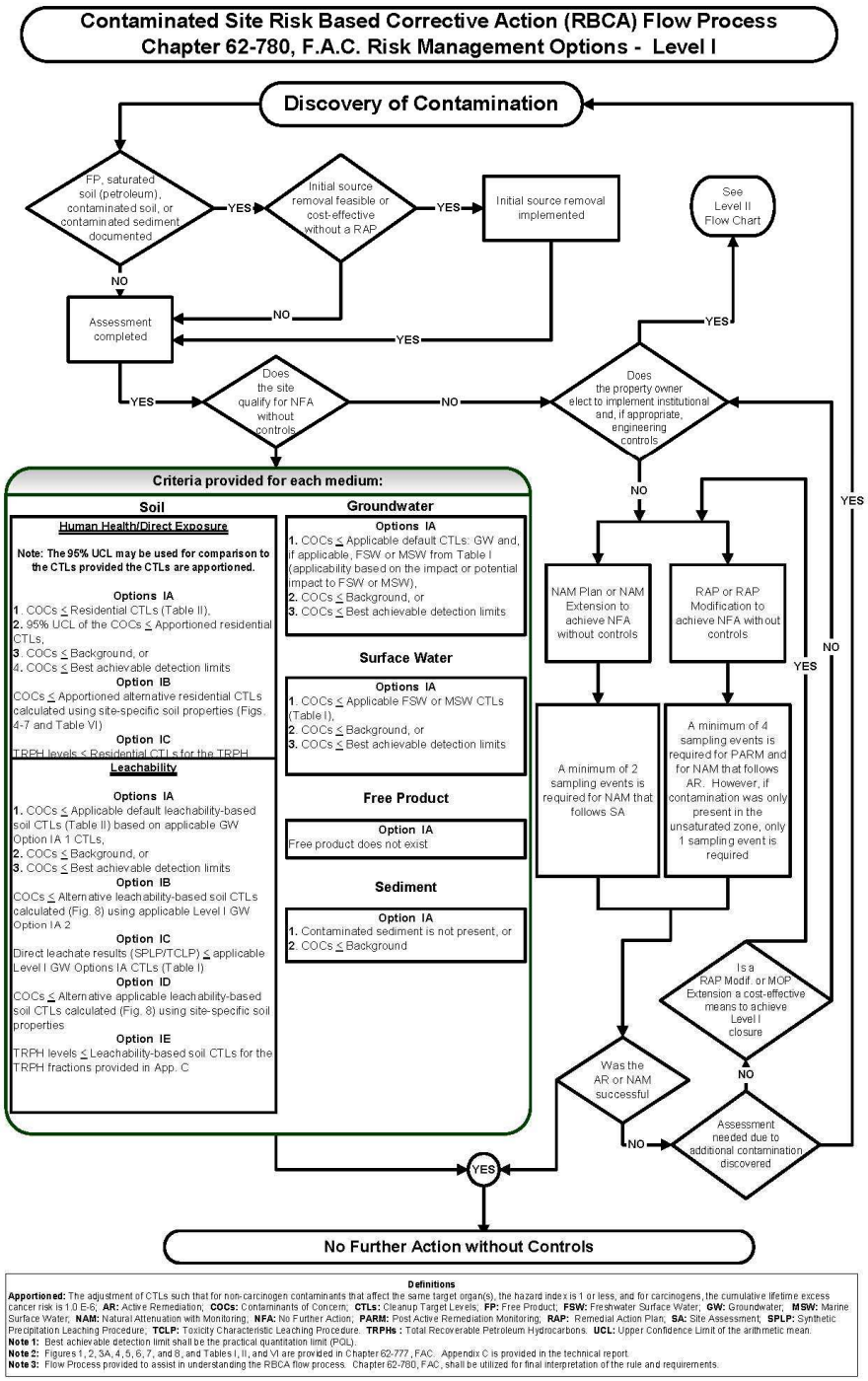
Risk Based Corrective Action Decision Rules

- Soils
  - Decision Rule #1
    - If the COCs 95% UCL concentration is less than its Residential SCTL and soil concentrations are less than the leachability-based SCTL, then proceed to NFA without Institutional controls. Otherwise proceed to Rule #2
  - Decision Rule #2
    - If the COCs 95% UCL concentration is less than its Industrial SCTL then proceed to NFA with Institutional controls. Otherwise the project team will consider risk to site personnel and remedial alternatives in a RAP.
- Groundwater
  - If the maximum measured chemical concentration of a COC is less than its GCTL then proceed to NFA without Institutional Controls. Otherwise the project team will consider risk to site personnel and remedial alternatives in a RAP.

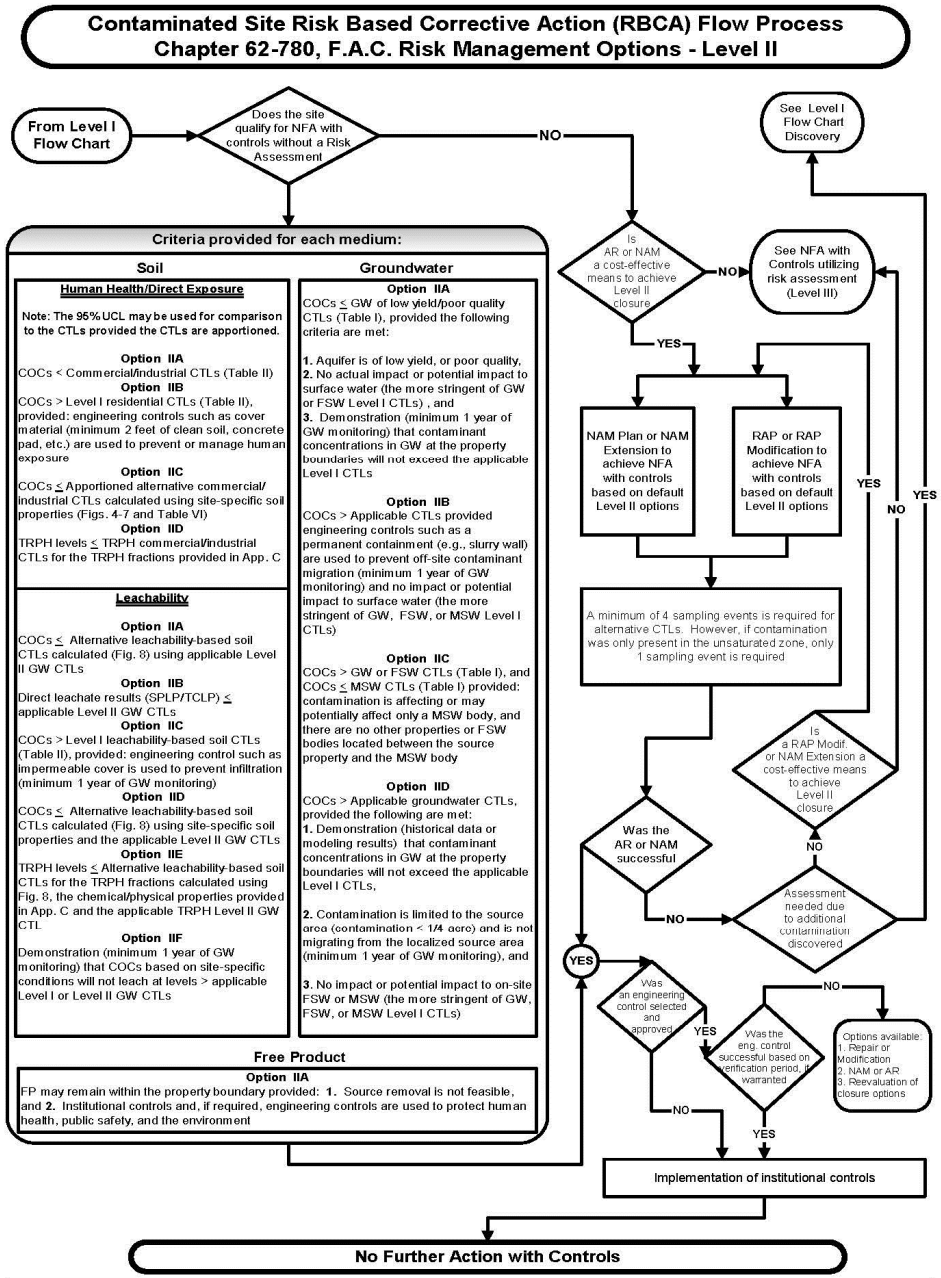
Consensus Items

- Site Boundaries
- No sediment, no surface water, no soil vapor intrusion assessment
- FDEP Chapter 62-780 FAC regulatory requirements
- COC Decision Rule
- Delineation Decision Rule
- Decision Rule Soil:
  - Soil Decision Rule #1
  - Soil Decision Rule #2
- Decision Rule Groundwater

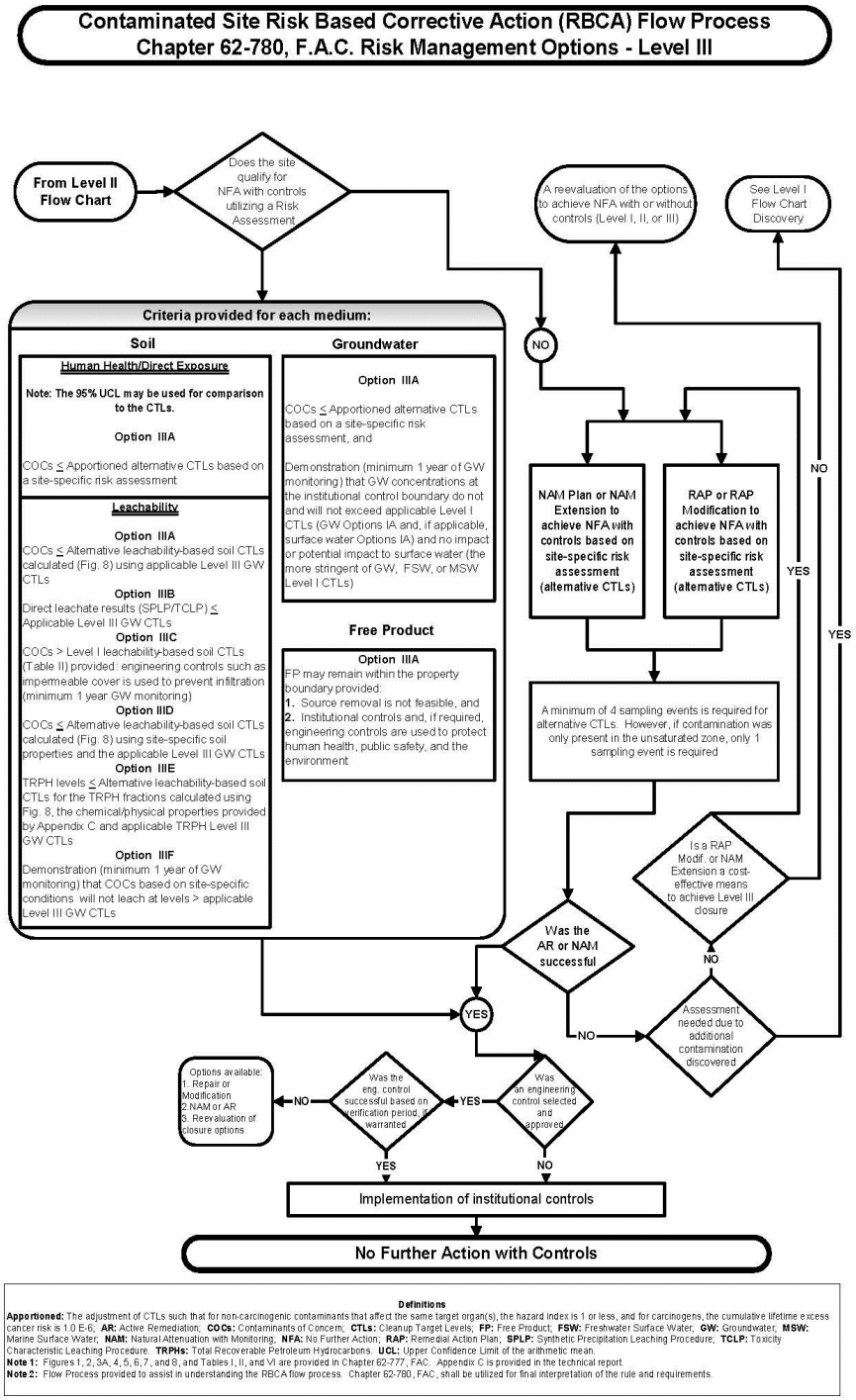
RMO Level 1 Flow Process



RMO Level 2 Flow Process



RMO Level 3 Flow Process



Jan. 2012 Mayport Partnering Meeting
FLC – Navy Fuel Depot

Proposed Phase II Assessment Activities

Sites 4 & 5

Jacksonville, Florida

Site 4 - Background

Former Burn Kettle & Slurry Burn Pit

- Burn Kettle operated from ~mid to late 1960s
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- Pond was filled and current field observation indicates no surface liquids are visible. Soils was pushed into berms at site boundary.
- Aerial extent of Site 5 based on field observation is approximately 3.5 acres
- Historical photo from 1969 indicates a sludge pond existed at the site
- Current field observation indicates a release: stressed vegetation, hard-crusted sludge on surface soil inside site boundary and on berm soil

Project Goals

Sites 4 & 5 site assessments

- Prepare SAP to determine the nature and extent of impacted soils/groundwater at Site 4 & Site 5
- Conduct assessment per FDEP chapter 62-780 F.A.C. – Contaminated Site Cleanup Criteria
- Prepare SA reports Site 4 & Site 5 per 62-780 guidelines
- Results of each SA report will provide the necessary data to support the next step of determining the appropriate risk based level (RMO 1,2,3) for Site 4 & Site 5

Assessment Approach – 3 Phases

- Phase I
  - Determine COCs for Site 4 and Site 5 by sampling soil and groundwater in area's indicating a release
- Phase II
  - Determine extent (lateral/vertical) of soil and groundwater impacts within the facility boundaries
- Phase III
  - As necessary, conduct limited soil and groundwater sampling to address any data gaps in the SA

Assessment Process- Phase I

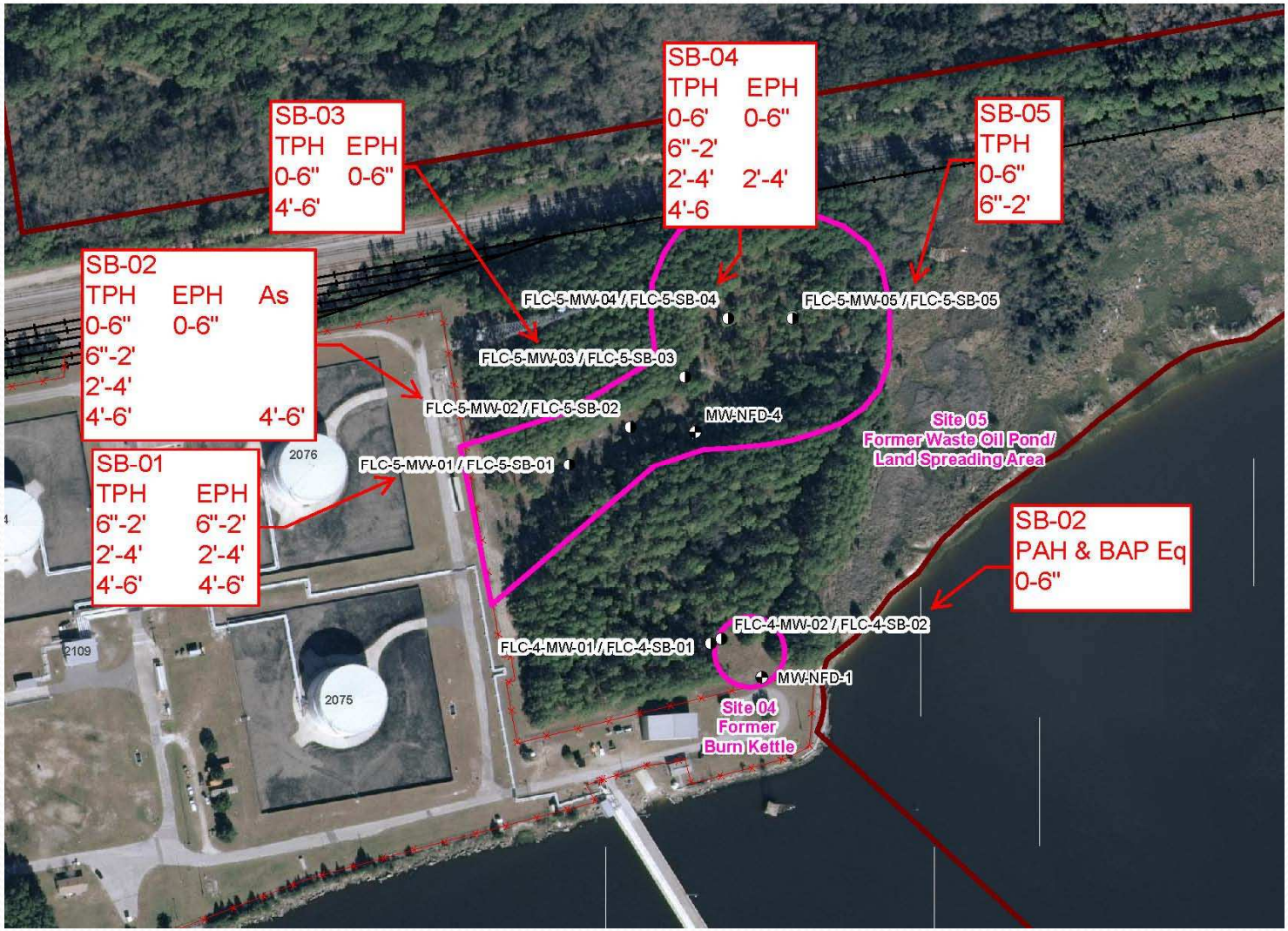
- To determine COCs during first assessment the analysis for soil and groundwater (no sediments or surface water) includes:
  - VOCs
  - SVOCs
  - PAHs
  - RCRA metals (plus Priority Pollutant Metals with Barium/Tin)
  - TRPH (speciated MA DEP method)
  - Dioxins/Furans (composite samples)
- Soil samples collected from 0-6”, 6”-2’, 2’-4’, 4’-6’. [Groundwater level eliminated the 4’-6’ soil sample interval in some locations.]
- Groundwater samples collected from MWs installed in initial soil boring locations and from existing MWs

Sites 4 & 5

Initial soil & groundwater sample locations

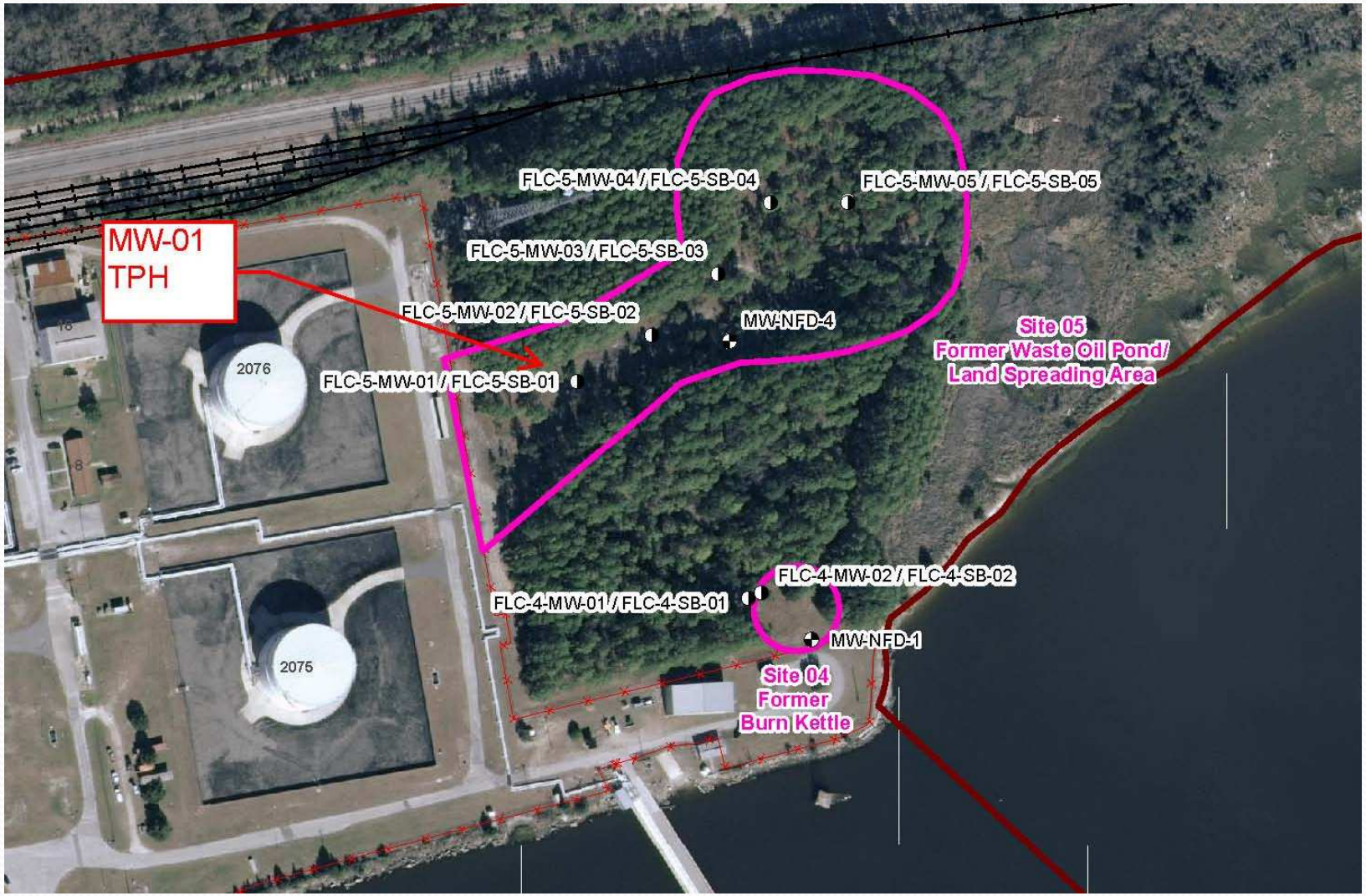
Sites 4 & 5

Phase I soil sample locations & results



Sites 4 & 5

Phase I groundwater sample locations & results



Assessment Process- Phase II

- Conduct step-out soil borings
  - Site 4
    - Step-outs borings will be placed laterally in 15’ intervals in each direction
    - Samples will be collected in the same depth intervals as in Phase I and samples will not be collected in overlapping locations
    - Samples will be analyzed for PAHs
    - In addition, samples will be collected on each side of the Site 4 Kettle Pipe in 20’ sections in depth intervals 0-6”, 6”-2’ and tested for PAHs
    - Collection of lateral soil samples will cease when field observation/FID readings indicate soil is not impacted
  - Site 5
    - Step-outs borings will be placed laterally in 15’ intervals in each direction
    - Samples will be collected in the same depth intervals as in Phase I and samples will not be collected in overlapping locations
    - Samples will be analyzed for TPH (if necessary speciated TPH) and arsenic
    - Collection of lateral soil samples will cease when field observation/FID readings indicate soil is not impacted

Assessment Process- Phase II (continued)

- If analytical results show outer boundary soil samples have an exceedance then an additional round of step-out samples will be collected until delineation is defined.

- Post Soil Sample Results Phase II-B
- Install monitoring wells laterally and vertically
  - Install shallow step-out wells laterally from the Site 5 MW-01 well and replace former site wells MW-NFD-1 & MW-NFD-2
  - Step-outs borings will be placed laterally in 20’ intervals in each direction
  - Install vertical delineation well at the Site 5 MW-01 location with screen 25-30 feet
  - Sample all newly installed wells and MW-01 at Site 5 for TPH and well MW-NFD-1 for PAHs

APPENDIX B

SOIL AND GROUNDWATER SAMPLE LOGS

Tetra Tech NUS, Inc.

SOIL & SEDIMENT SAMPLE LOG SHEET

Page ___ of ___

Project Site Name: FLC Sites 4 & 5
Project No.: 112G03309

Sample ID No.: FLC-4-SS01-0006-092711
Sample Location: Site 4
Sampled By: R. Marshall
C.O.C. No.: 26204

[X] Surface Soil
[ ] Subsurface Soil
[ ] Sediment
[ ] Other:
[ ] QA Sample Type:

Type of Sample:
[ ] Low Concentration
[ ] High Concentration

GRAB SAMPLE DATA:

Date: 9/22/11
Time: 08:45
Method: Grab
Monitor Reading (ppm):

Depth Interval	Color	Description (Sand, Silt, Clay, Moisture, etc.)
00"–06"	Light brown	Fine grained sand

COMPOSITE SAMPLE DATA:

Date:
Method:
Monitor Readings (Range in ppm):

Time	Depth Interval	Color	Description (Sand, Silt, Clay, Moisture, etc.)

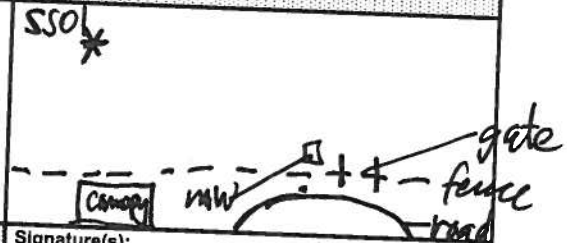
SAMPLE COLLECTION INFORMATION:

Analysis	Container Requirements	Collected	Other
(1) VOCs	3 40mL		
(2) SVOC	1 4oz		
(3) PEST PCB	1 4oz		
(4) TOTAL METALS	1 4oz		
(5) EL-PRO	1 4oz		
(6) SP TPH- VPH	2 40mL		
(7) SP TPH- EPH	1 4oz		

OBSERVATIONS / NOTES:

Unfiltered 8.6ppm
filtered 0 ppm

MAP:



Circle if Applicable:

MS/MSD

Duplicate ID No.:

Signature(s): K. Wall

Tetra Tech NUS, Inc.

SOIL & SEDIMENT SAMPLE LOG SHEET

Page___ of___

Project Site Name: FLC Sites 4 & 5
Project No.: 112G03309

[X] Surface Soil
[ ] Subsurface Soil
[ ] Sediment
[ ] Other:
[ ] QA Sample Type:

Sample ID No.: FLC-4-SS01-0624-92211
Sample Location: Site 4
Sampled By: R. Marshall
C.O.C. No.: 26204

Type of Sample:
[ ] Low Concentration
[ ] High Concentration

GRAB SAMPLE DATA:

Date: 9-22-11
Time: 09:00
Method: Grab
Monitor Reading (ppm):

Depth Interval	Color	Description (Sand, Silt, Clay, Moisture, etc.)
06"-2'	Light brown	Fine grained sand

COMPOSITE SAMPLE DATA:

Date:	Time	Depth Interval	Color	Description (Sand, Silt, Clay, Moisture, etc.)
Method:				
Monitor Readings (Range in ppm):				

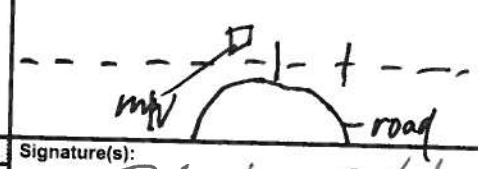
SAMPLE COLLECTION INFORMATION:

Analysis	Container Requirements	Collected	Other
1, 2, 3, 4, 5, 6, 7			

OBSERVATIONS / NOTES:

unfiltered 0.08ppm
filtered 0

MAP:



Circle if Applicable:

MS/MSD Yes

Duplicate ID No.:

Signature(s):

Tetra Tech NUS, Inc.

SOIL & SEDIMENT SAMPLE LOG SHEET

Page ___ of ___

Project Site Name: FLC Sites 4 & 5
Project No.: 112G03309

[] Surface Soil
[X] Subsurface Soil
[] Sediment
[] Other:
[] QA Sample Type:

Sample ID No.: FLC-4-SB01-02
Sample Location: 04-092211 Site 4
Sampled By: B. Marshall
C.O.C. No.: 26204

Type of Sample:
[] Low Concentration
[] High Concentration

GRAB SAMPLE DATA:

	Depth Interval	Color	Description (Sand, Silt, Clay, Moisture, etc.)
Date: 9-22-11 Time: 09:25 Method: Grab Monitor Reading (ppm):	2'-4'	Light brown and white	Fine grained sand

COMPOSITE SAMPLE DATA:

Date:	Time	Depth Interval	Color	Description (Sand, Silt, Clay, Moisture, etc.)
Method:				
Monitor Readings (Range in ppm):				

SAMPLE COLLECTION INFORMATION:

Analysis	Container Requirements	Collected	Other
1, 2, 3, 4, 5, 6, 7			

OBSERVATIONS / NOTES:

unfiltered 0.2 ppm
filtered 0.0 ppm

MAP:

Circle if Applicable:

MS/MSD	Duplicate ID No.:

Signature(s): [illegible]

Tetra Tech NUS, Inc.

SOIL & SEDIMENT SAMPLE LOG SHEET

Page___ of___

Project Site Name: FLC-Sites 4 & 5
Project No.: 112G03304

Sample ID No.: FLC-4-SS02-0006-092211
Sample Location: Site 4
Sampled By: B. Marshall
C.O.C. No.: 26204

[X] Surface Soil
[ ] Subsurface Soil
[ ] Sediment
[ ] Other:
[ ] QA Sample Type:

Type of Sample:
[ ] Low Concentration
[ ] High Concentration

GRAB SAMPLE DATA:

	Depth Interval	Color	Description (Sand, Silt, Clay, Moisture, etc.)
Date: 09-22-11	0"-6"	Brown	Fine sand-with small rocks
Time: 10:05			
Method: Grab			
Monitor Reading (ppm):			

COMPOSITE SAMPLE DATA:

	Time	Depth Interval	Color	Description (Sand, Silt, Clay, Moisture, etc.)
Date:				
Method:				
Monitor Readings (Range in ppm):				

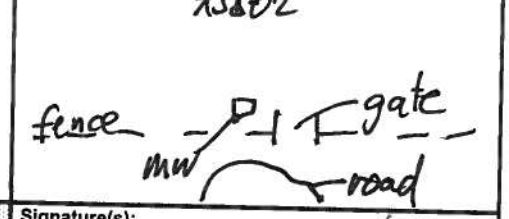
SAMPLE COLLECTION INFORMATION:

Analysis	Container Requirements	Collected	Other
1, 2, 3, 4, 5, 6, 7			

OBSERVATIONS / NOTES:

unfiltered 6.7 ppm
filtered 0.0 ppm

MAP:



Circle if Applicable:

MS/MSD	Duplicate ID No.:

Signature(s): [illegible]

Tetra Tech NUS, Inc.

SOIL & SEDIMENT SAMPLE LOG SHEET

Page ___ of ___

Project Site Name: FLC Sites 4 & 5
Project No.: 112G03304

Sample ID No.: FLC4-SS02-0624-092211
Sample Location: Site 4
Sampled By: B. Marshall
C.O.C. No.: 26204

[X] Surface Soil
[ ] Subsurface Soil
[ ] Sediment
[ ] Other:
[ ] QA Sample Type:

Type of Sample:
[ ] Low Concentration
[ ] High Concentration

GRAB SAMPLE DATA:

	Depth Interval	Color	Description (Sand, Silt, Clay, Moisture, etc.)
Date: 09-22-11 Time: 10:20 Method: Grab Monitor Reading (ppm):	6"-24"	Light brown	Fine grained sand

COMPOSITE SAMPLE DATA:

	Time	Depth Interval	Color	Description (Sand, Silt, Clay, Moisture, etc.)
Date:				
Method:				
Monitor Readings (Range in ppm):				

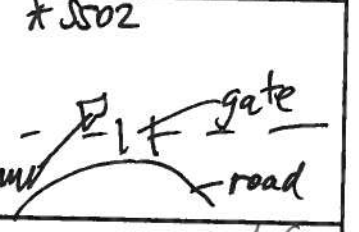
SAMPLE COLLECTION INFORMATION:

Analysis	Container Requirements	Collected	Other
1, 2, 3, 4, 5, 6, 7			

OBSERVATIONS / NOTES:

unfiltered 2.2 ppm
filtered 0.0 ppm

MAP:



Circle if Applicable:

MS/MSD	Duplicate ID No.:

Signature(s):

Tetra Tech NUS, Inc.

SOIL & SEDIMENT SAMPLE LOG SHEET

Page___ of ___

Project Site Name: FLC Sites 4 & 5
Project No.: 112G03309

[] Surface Soil
[X] Subsurface Soil
[] Sediment
[] Other:
[] QA Sample Type:

Sample ID No.: FLC-4-SB02-0204-092211
Sample Location: Site 4
Sampled By: B. Marshall
C.O.C. No.: 26204

Type of Sample:
[] Low Concentration
[] High Concentration

GRAB SAMPLE DATA:

	Depth Interval	Color	Description (Sand, Silt, Clay, Moisture, etc.)
Date: 09/22/11	2'-4'	Light brown	Fine grained sand, some rocks
Time: 10:30			
Method: Grab			
Monitor Reading (ppm):			

COMPOSITE SAMPLE DATA:

	Time	Depth Interval	Color	Description (Sand, Silt, Clay, Moisture, etc.)
Date:				
Method:				
Monitor Readings (Range in ppm):				

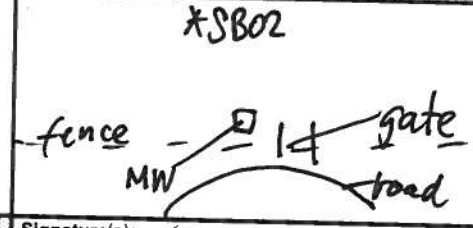
SAMPLE COLLECTION INFORMATION:

Analysis	Container Requirements	Collected	Other
1, 2, 3, 4, 5, 6, 7			

OBSERVATIONS / NOTES:

Unfiltered 0.2 ppm
filtered 0.0 ppm

MAP:



Circle if Applicable:

MS/MSD	Duplicate ID No.:

Signature(s): [illegible]

Tetra Tech NUS, Inc.

SOIL & SEDIMENT SAMPLE LOG SHEET

Page___ of___

Project Site Name: FLC Sites 4/5
Project No.: 112G03309

Sample ID No.: FLC-4-SSC-0006-092211
Sample Location: Site 4
Sampled By: B. Marshall
C.O.C. No.:

[X] Surface Soil
[ ] Subsurface Soil
[ ] Sediment
[ ] Other:
[ ] QA Sample Type:

Type of Sample:
[ ] Low Concentration
[ ] High Concentration

GRAB SAMPLE DATA:

	Depth Interval	Color	Description (Sand, Silt, Clay, Moisture, etc.)
Date: 09-22-11			
Time:			
Method:			
Monitor Reading (ppm):			

COMPOSITE SAMPLE DATA:

Date:	Time	Depth Interval	Color	Description (Sand, Silt, Clay, Moisture, etc.)
09-22-11	10:45	0-6"		
Method:				
Monitor Readings (Range in ppm):				

SAMPLE COLLECTION INFORMATION:

Analysis	Container Requirements	Collected	Other
~~1, 2, 3, 4, 5, 6~~			
DIOXINS / FURANS	2 4oz	✓	

OBSERVATIONS / NOTES:

MAP:

See Sample ID's
FLC-4-SS01/SS02-0006-092211

Circle if Applicable:

MS/MSD	Duplicate ID No.:

Signature(s):

Tetra Tech NUS, Inc.

SOIL & SEDIMENT SAMPLE LOG SHEET

Page ___ of ___

Project Site Name: FLC Sites 4+5
Project No.: 112G03309

Sample ID No.: FLC-4-SSC-0624-092211
Sample Location: Site 4
Sampled By: B. Marsha V
C.O.C. No.: 26203/26204

[X] Surface Soil
[ ] Subsurface Soil
[ ] Sediment
[ ] Other:
[ ] QA Sample Type:

Type of Sample:
[ ] Low Concentration
[ ] High Concentration

GRAB SAMPLE DATA:

	Depth Interval	Color	Description (Sand, Silt, Clay, Moisture, etc.)
Date: 09-22-11			
Time:			
Method:			
Monitor Reading (ppm):			

COMPOSITE SAMPLE DATA:

Date:	Time	Depth Interval	Color	Description (Sand, Silt, Clay, Moisture, etc.)
09-22-11	10:50	6"-24"		
Method:				
Monitor Readings (Range in ppm):				

SAMPLE COLLECTION INFORMATION:

Analysis	Container Requirements	Collected	Other
~~1, 2, 3, 4, 5, 6, 7~~			
DIOXINS/FURANS	2 4oz		

OBSERVATIONS / NOTES:

MAP:

See sample IDs
FLC-4-SS01/SS02-0006-092211

Circle if Applicable:

MS/MSD yes

Duplicate ID No.:

Signature(s):

Tetra Tech NUS, Inc.

SOIL & SEDIMENT SAMPLE LOG SHEET

Page ___ of ___

Project Site Name: FLC Sites 4 & 5
Project No.: 112G03389

[] Surface Soil
[] Subsurface Soil
[] Sediment
[] Other:
[] QA Sample Type:

Sample ID No.: FLC-4-SSC-0204-092211
Sample Location: Site 4
Sampled By: B. Marshall
C.O.C. No.: 26204/26203

Type of Sample:
[] Low Concentration
[] High Concentration

GRAB SAMPLE DATA:

	Depth Interval	Color	Description (Sand, Silt, Clay, Moisture, etc.)
Date:			
Time:			
Method:			
Monitor Reading (ppm):			

COMPOSITE SAMPLE DATA:

Date:	Time	Depth Interval	Color	Description (Sand, Silt, Clay, Moisture, etc.)
09-22-11	10:55	2-4'		
Method:				
Monitor Readings (Range in ppm):				

SAMPLE COLLECTION INFORMATION:

Analysis	Container Requirements	Collected	Other
~~1, 2, 3, 4, 5, 6, 7~~			
DIOXINS FURANS	2.4 oz		

OBSERVATIONS / NOTES:

MAP:

COMPOSITE

Circle if Applicable:

MS/MSD	Duplicate ID No.:

Signature(s):

TETRA TECH NUS, INC.

CHAIN OF CUSTODY

NUMBER 2368

PROJECT NO: 112G03309	FACILITY: FLC- SITE 4	PROJECT MANAGER: B. MARSHALL	PHONE NUMBER: 904-636-6125	LABORATORY NAME AND CONTACT: EMPIRICAL
SAMPLERS (SIGNATURE): K. WILT		FIELD OPERATIONS LEADER: K. WITCHERT	PHONE NUMBER: 904-636-6125	ADDRESS: 621 MAINSTREAM DR. SUITE
		CARRIER/WAYBILL NUMBER		CITY, STATE: NASHVILLE, TN

STANDARD TAT ☒
RUSH TAT ☐
☐ 24 hr. ☐ 48 hr. ☐ 72 hr. ☐ 7 day ☐ 14 day

CONTAINER TYPE PLASTIC (P) or GLASS (G): G G
PRESERVATIVE USED: / /

DATE YEAR 2012	TIME	SAMPLE ID	LOCATION ID	TOP DEPTH (FT)	BOTTOM DEPTH (FT)	MATRIX (GW, SO, SW, SD, QC, ETC.)	COLLECTION METHOD GRAB (G) COMP (C)	No. OF CONTAINERS	PAHS - SOIL	PAHS - AQUEOUS							COMMENTS
2/21	0800	FLC-4-SS03-0006-022112		0	.5	SO		3	3						- MS/MSD		- COOL TO 4°C
2/21	0810	FLC-4-SS04-0006-022112		0	.5	SO		1	1								
2/21	0820	FLC-4-P01-0624-022112		.5	2	SO		1	1								
2/21	0825	FLC-4-P01-0204-022112		2	4	SO		1	1								
2/21	0830	FLC-4-RB01-022112		—	—	QC		2		2							- RINSATE
2/21	0840	FLC-4-P02-0624-022112		.5	2	SO		1	1								
2/21	0845	FLC-4-P02-0204-022112		2	4	SO		1	1								
2/21	0900	FLC-4-P03-0624-022112		.5	2	SO		1	1								
2/21	0905	FLC-4-P03-0204-022112		2	4	SO		1	1								
2/21	0920	FLC-4-P04-0624-022112		.5	2	SO		1	1								
2/21	0925	FLC-4-P04-0204-022112		2	4	SO		1	1								
2/21	0000	FLC-4-DUP02-022112		—	—	SO		1	1								- DUPLICATE
2/21	0000	FLC-4-DUP01-022112		—	—	SO		1	1								- DUPLICATE

1. RELINQUISHED BY: K. WILT	DATE: 2-21-12	TIME: 1530	1. RECEIVED BY	DATE	TIME
2. RELINQUISHED BY	DATE	TIME	2. RECEIVED BY	DATE	TIME
3. RELINQUISHED BY	DATE	TIME	3. RECEIVED BY	DATE	TIME

COMMENTS

DISTRIBUTION: WHITE (ACCOMPANIES SAMPLE) YELLOW (FIELD COPY) PINK (FILE COPY)

4/02R
FORM NO. TtNUS-001

TETRA TECH NUS, INC. CHAIN OF CUSTODY | NUMBER 2369 | PAGE 2 OF 2

PROJECT NO:	FACILITY:	PROJECT MANAGER	PHONE NUMBER	LABORATORY NAME AND CONTACT:
112G03309	FLC-SITE 4	B. MARSHALL	904-636-6125	EMPIRICAL
SAMPLERS (SIGNATURE)		FIELD OPERATIONS LEADER	PHONE NUMBER	ADDRESS
JL Wilt		K. WETCHERT	904-636-6125	621 MAINSTREAM DR. ST.
		CARRIER/WAYBILL NUMBER		CITY, STATE
				NASHVILLE, TN

STANDARD TAT ☒
RUSH TAT ☐
☐ 24 hr. ☐ 48 hr. ☐ 72 hr. ☐ 7 day ☐ 14 day

DATE YEAR 2012	TIME	SAMPLE ID	LOCATION ID	TOP DEPTH (FT)	BOTTOM DEPTH (FT)	MATRIX (GW, SO, SW, SD, QC, ETC.)	COLLECTION METHOD GRAB (G) COMP (C)	No. OF CONTAINERS	TYPE OF ANALYSIS: PAHs - SOIL	PAHs - AQUEOUS							COMMENTS
								CONTAINER TYPE PLASTIC (P) or GLASS (G)	G	G							
								PRESERVATIVE USED	-	-							
2/21	0930	FLC-4-RB02-022112		–	–	QC		2		2							-RINSATE
2/21	0950	FLC-4-P05-0624-022112		.5	2	SO		3	3								-MS/MSD
2/21	0955	FLC-4-P05-0204-022112		2	4	SO		1	1								
2/21	1015	FLC-4-P06-0624-022112		.5	2	SO		1	1								
2/21	1020	FLC-4-P06-0204-022112		2	4	SO		1	1								
2/21	1025	FLC-4-P07-0624-022112		.5	2	SO		1	1								
2/21	1030	FLC-4-P07-0204-022112		2	4	SO		1	1								
2/21	1035	FLC-4-P08-0624-022112		.5	2	SO		1	1								
2/21	1040	FLC-4-P08-0204-022112		2	4	SO		1	1								
2/21	1050	FLC-4-P09-0006-022112		0	.5	SO		1	1								
2/21	1055	FLC-4-P09-0624-022112		.5	2	SO		1	1								
2/21	1100	FLC-4-P09-0204-022112		2	4	SO		1	1								
2/21	6000	FLC-4-DUP03-022112		–	–	SO		1	1								-DUPLICATE

	DATE	TIME		DATE	TIME
1. RELINQUISHED BY JL Wilt	2-21-12	1530	1. RECEIVED BY		
2. RELINQUISHED BY			2. RECEIVED BY		
3. RELINQUISHED BY			3. RECEIVED BY		

COMMENTS

DISTRIBUTION: WHITE (ACCOMPANIES SAMPLE) YELLOW (FIELD COPY) PINK (FILE COPY)

4/02R
FORM NO. TtNUS-001

Tetra Tech NUS, Inc.

SOIL & SEDIMENT SAMPLE LOG SHEET

Page___ of ___

Project Site Name: FLC-SITE 4
Project No.: 112G03309

[x] Surface Soil (SS)
[] Subsurface Soil (SU)
[] Sediment (SD)
[] Other:
[] QA Sample Type:

Sample ID No.: FLC-4-SS03-0006-022112
Sample Location: FLC-4- SS03
Sampled By: KW
C.O.C. No.: 2368

Type of Sample:
[] Low Concentration
[] High Concentration

GRAB SAMPLE DATA:

		Depth	Color	Description (Sand, Silt, Clay, Moisture, etc.)
Date:	2/21/12	0-6"	BROWN	FINE, DRY ORGANIC SAND
Time:	0800			
Method:	Grab			
Monitor Reading (ppm	0			

COMPOSITE SAMPLE DATA:

Date:	Time	Depth	Color	Description (Sand, Silt, Clay, Moisture, etc.)
Method:				
Monitor Readings (Range in ppm):				

SAMPLE COLLECTION INFORMATION:

Analysis	Container Requirements	Collected	LAB
PAH	(1) 4oz. Glass Jar	✓	Empirical

OBSERVATIONS / NOTES:

MAP:

See map with field notes

Circle if Applicable:

MS/MSD

Duplicate ID No.:

Signature(s):

K. Wilt

Tetra Tech NUS, Inc.

SOIL & SEDIMENT SAMPLE LOG SHEET

Page___ of ___

Project Site Name: FLC-SITE 4
Project No.: 112G03309

[✓] Surface Soil (SS)
[] Subsurface Soil (SU)
[] Sediment (SD)
[] Other:
[] QA Sample Type:

Sample ID No.: FLC-4-SS04-0006-022112
Sample Location: FLC-4-SB04
Sampled By: KW
C.O.C. No.: 2368

Type of Sample:
[] Low Concentration
[] High Concentration

GRAB SAMPLE DATA:

		Depth	Color	Description (Sand, Silt, Clay, Moisture, etc.)
Date:	2/21/12	0-6"	BROWN	FINE, DRY ORGANIC SAND
Time:	0810			
Method:	Grab			
Monitor Reading (ppm	0			

COMPOSITE SAMPLE DATA:

Date:	Time	Depth	Color	Description (Sand, Silt, Clay, Moisture, etc.)
Method:				
Monitor Readings (Range in ppm):				

SAMPLE COLLECTION INFORMATION:

Analysis	Container Requirements	Collected	LAB
PAH	(1) 4oz. Glass Jar	✓	Empirical

OBSERVATIONS / NOTES:

MAP:

See map with field notes

Circle if Applicable:

MS/MSD	Duplicate ID No.:
	FLC-4-DUP01-022112

Signature(s): K. Will

Tetra Tech NUS, Inc.

SOIL & SEDIMENT SAMPLE LOG SHEET

Page___ of ___

Project Site Name: FLC-SITE 4
Project No.: 112G03309

[✓] Surface Soil (SS)
[] Subsurface Soil (SU)
[] Sediment (SD)
[] Other:
[] QA Sample Type:

Sample ID No.: FLC-4- P01-0624-022112
Sample Location: FLC-4- P01
Sampled By: KW
C.O.C. No.: 2368

Type of Sample:
[] Low Concentration
[] High Concentration

GRAB SAMPLE DATA:

		Depth	Color	Description (Sand, Silt, Clay, Moisture, etc.)
Date:	2/21/12	6-24"	LT BRN	FINE DRY SAND
Time:	0820			
Method:	Grab			
Monitor Reading (ppm	0			

COMPOSITE SAMPLE DATA:

Date:	Time	Depth	Color	Description (Sand, Silt, Clay, Moisture, etc.)
Method:				
Monitor Readings (Range in ppm):				

SAMPLE COLLECTION INFORMATION:

Analysis	Container Requirements	Collected	LAB
PAH	(1) 4oz. Glass Jar	✓	Empirical

OBSERVATIONS / NOTES:

MAP:

See map with field notes

Circle if Applicable:

MS/MSD	Duplicate ID No.:

Signature(s): K. Wilt

Tetra Tech NUS, Inc.

SOIL & SEDIMENT SAMPLE LOG SHEET

Page___ of ___

Project Site Name: FLC-SITE 4
Project No.: 112G03309

[] Surface Soil (SS)
[✓] Subsurface Soil (SU)
[] Sediment (SD)
[] Other:
[] QA Sample Type:

Sample ID No.: FLC-4-P01-0204-022112
Sample Location: FLC-4- P01
Sampled By: KW
C.O.C. No.: 2368

Type of Sample:
[] Low Concentration
[] High Concentration

GRAB SAMPLE DATA:

		Depth	Color	Description (Sand, Silt, Clay, Moisture, etc.)
Date:	2/21/12	2-4'	LT BRN	MOIST FINE SAND, PETRO ODOR
Time:	0825			
Method:	Grab			
Monitor Reading (ppm	0			

COMPOSITE SAMPLE DATA:

Date:	Time	Depth	Color	Description (Sand, Silt, Clay, Moisture, etc.)
Method:				
Monitor Readings (Range in ppm):				

SAMPLE COLLECTION INFORMATION:

Analysis	Container Requirements	Collected	LAB
PAH	(1) 4oz. Glass Jar	✓	Empirical

OBSERVATIONS / NOTES:

- PETROL RESIDUE @ 3.5'
- H_2O @ 4.0'

MAP:

See map with field notes

Circle if Applicable:

MS/MSD

Duplicate ID No.: FLC-4-DUP02-022112

Signature(s): K. Wild

Tetra Tech NUS, Inc.

SOIL & SEDIMENT SAMPLE LOG SHEET

Page___ of ___

Project Site Name: FLC-SITE 4
Project No.: 112G03309

[✓] Surface Soil (SS)
[] Subsurface Soil (SU)
[] Sediment (SD)
[] Other:
[] QA Sample Type:

Sample ID No.: FLC-4-P02-0624-022112
Sample Location: FLC-4-P02
Sampled By: KW
C.O.C. No.: 2368

Type of Sample:
[] Low Concentration
[] High Concentration

GRAB SAMPLE DATA:

		Depth	Color	Description (Sand, Silt, Clay, Moisture, etc.)
Date:	2/21/12	6-24''	LT BRN	DRY FINE SAND
Time:	0840			
Method:	Grab			
Monitor Reading (ppm	0			

COMPOSITE SAMPLE DATA:

Date:	Time	Depth	Color	Description (Sand, Silt, Clay, Moisture, etc.)
Method:				
Monitor Readings (Range in ppm):				

SAMPLE COLLECTION INFORMATION:

Analysis	Container Requirements	Collected	LAB
PAH	(1) 4oz. Glass Jar	✓	Empirical

OBSERVATIONS / NOTES:

MAP:

See map with field notes

Circle if Applicable:

MS/MSD	Duplicate ID No.:

Signature(s): K. Wilt

Tetra Tech NUS, Inc.

SOIL & SEDIMENT SAMPLE LOG SHEET

Page___ of ___

Project Site Name: FLC-SITE 4
Project No.: 112G03309

[] Surface Soil (SS)
[x] Subsurface Soil (SU)
[] Sediment (SD)
[] Other:
[] QA Sample Type:

Sample ID No.: FLC-4- P02-0204-022112
Sample Location: FLC-4- P02
Sampled By: KW
C.O.C. No.: 2368

Type of Sample:
[] Low Concentration
[] High Concentration

GRAB SAMPLE DATA:

		Depth	Color	Description (Sand, Silt, Clay, Moisture, etc.)
Date:	2/21/12	2-4'	LT BRN	MOIST FINE SAND, PETRO ODOR
Time:	0845			
Method:	Grab			
Monitor Reading (ppm	0			

COMPOSITE SAMPLE DATA:

Date:	Time	Depth	Color	Description (Sand, Silt, Clay, Moisture, etc.)
Method:				
Monitor Readings (Range in ppm):				

SAMPLE COLLECTION INFORMATION:

Analysis	Container Requirements	Collected	LAB
PAH	(1) 4oz. Glass Jar	✓	Empirical

OBSERVATIONS / NOTES:

H_2O @ 4.0'

MAP:

See map with field notes

Circle if Applicable:

MS/MSD

Duplicate ID No.:

Signature(s):

KWilt

Tetra Tech NUS, Inc.

SOIL & SEDIMENT SAMPLE LOG SHEET

Page___ of ___

Project Site Name: FLC-SITE 4
Project No.: 112G03309

[x] Surface Soil (SS)
[] Subsurface Soil (SU)
[] Sediment (SD)
[] Other:
[] QA Sample Type:

Sample ID No.: FLC-4-P03-0624-022112
Sample Location: FLC-4-P03
Sampled By: KW
C.O.C. No.: 23658

Type of Sample:
[] Low Concentration
[] High Concentration

GRAB SAMPLE DATA:

		Depth	Color	Description (Sand, Silt, Clay, Moisture, etc.)
Date:	2/21/12	6-24"	LT BRN	DRY, FINE SAND
Time:	0900			
Method:	Grab			
Monitor Reading (ppm	0			

COMPOSITE SAMPLE DATA:

Date:	Time	Depth	Color	Description (Sand, Silt, Clay, Moisture, etc.)
Method:				
Monitor Readings (Range in ppm):				

SAMPLE COLLECTION INFORMATION:

Analysis	Container Requirements	Collected	LAB
PAH	(1) 4oz. Glass Jar	✓	Empirical

OBSERVATIONS / NOTES:

MAP:

See map with field notes

Circle if Applicable:

MS/MSD	Duplicate ID No.:

Signature(s): K. Wild

Tetra Tech NUS, Inc.

SOIL & SEDIMENT SAMPLE LOG SHEET

Page___ of ___

Project Site Name: FLC-SITE 4
Project No.: 112G03309

[] Surface Soil (SS)
[✓] Subsurface Soil (SU)
[] Sediment (SD)
[] Other:
[] QA Sample Type:

Sample ID No.: FLC-4-P03-0204-022112
Sample Location: FLC-4- P03
Sampled By: KW
C.O.C. No.: 2368

Type of Sample:
[] Low Concentration
[] High Concentration

GRAB SAMPLE DATA:

		Depth	Color	Description (Sand, Silt, Clay, Moisture, etc.)
Date:	2/21/12	2-4'	LT. BRN	MOIST FINE SAND
Time:	0905			
Method:	Grab			
Monitor Reading (ppm	0			

COMPOSITE SAMPLE DATA:

Date:	Time	Depth	Color	Description (Sand, Silt, Clay, Moisture, etc.)
Method:				
Monitor Readings (Range in ppm):				

SAMPLE COLLECTION INFORMATION:

Analysis	Container Requirements	Collected	LAB
PAH	(1) 4oz. Glass Jar	✓	Empirical

OBSERVATIONS / NOTES:

H_2O @ 3.5'

MAP:

See map with field notes

Circle if Applicable:

MS/MSD	Duplicate ID No.:

Signature(s): K. Wilt

Tetra Tech NUS, Inc.

SOIL & SEDIMENT SAMPLE LOG SHEET

Page___ of ___

Project Site Name: FLC-SITE 4
Project No.: 112G03309

[✓] Surface Soil (SS)
[] Subsurface Soil (SU)
[] Sediment (SD)
[] Other:
[] QA Sample Type:

Sample ID No.: FLC-4-P04-0624-022112
Sample Location: FLC-4- P04
Sampled By: KW
C.O.C. No.: 2368

Type of Sample:
[] Low Concentration
[] High Concentration

GRAB SAMPLE DATA:

		Depth	Color	Description (Sand, Silt, Clay, Moisture, etc.)
Date:	2/21/12	6-24"	LT BRN	DRY FINE SAND
Time:	0920			
Method:	Grab			
Monitor Reading (ppm	0			

COMPOSITE SAMPLE DATA:

Date:	Time	Depth	Color	Description (Sand, Silt, Clay, Moisture, etc.)
Method:				
Monitor Readings (Range in ppm):				

SAMPLE COLLECTION INFORMATION:

Analysis	Container Requirements	Collected	LAB
PAH	(1) 4oz. Glass Jar	✓	Empirical

OBSERVATIONS / NOTES:

MAP:

See map with field notes

Circle if Applicable:

MS/MSD	Duplicate ID No.:

Signature(s): K. Wilt

Tetra Tech NUS, Inc.

SOIL & SEDIMENT SAMPLE LOG SHEET

Page___ of ___

Project Site Name: FLC-SITE 4
Project No.: 112G03309

[] Surface Soil (SS)
[✓] Subsurface Soil (SU)
[] Sediment (SD)
[] Other:
[] QA Sample Type:

Sample ID No.: FLC-4-P04-0204-022112
Sample Location: FLC-4- P04
Sampled By: KW
C.O.C. No.: 23168

Type of Sample:
[] Low Concentration
[] High Concentration

GRAB SAMPLE DATA:

		Depth	Color	Description (Sand, Silt, Clay, Moisture, etc.)
Date:	2/21/12	2-4'	LT BRN	MOIST, FINE SAND, SOME ROCKS
Time:	0925			
Method:	Grab			
Monitor Reading (ppm	0			

COMPOSITE SAMPLE DATA:

Date:	Time	Depth	Color	Description (Sand, Silt, Clay, Moisture, etc.)
Method:				
Monitor Readings (Range in ppm):				

SAMPLE COLLECTION INFORMATION:

Analysis	Container Requirements	Collected	LAB
PAH	(1) 4oz. Glass Jar	✓	Empirical

OBSERVATIONS / NOTES:

H_2O @ 3.5'

MAP:

See map with field notes

Circle if Applicable:

MS/MSD	Duplicate ID No.:

Signature(s): K. WLT

Tetra Tech NUS, Inc.

SOIL & SEDIMENT SAMPLE LOG SHEET

Page___ of ___

Project Site Name: FLC-SITE 4
Project No.: 112G03309

[✓] Surface Soil (SS)
[] Subsurface Soil (SU)
[] Sediment (SD)
[] Other:
[] QA Sample Type:

Sample ID No.: FLC-4-P05-0624-022112
Sample Location: FLC-4- P05
Sampled By: KW
C.O.C. No.: 2369

Type of Sample:
[] Low Concentration
[] High Concentration

GRAB SAMPLE DATA:

		Depth	Color	Description (Sand, Silt, Clay, Moisture, etc.)
Date:	2/21/12	6-24"	LT BRN	DRY, FINE SAND
Time:	0950			
Method:	Grab			
Monitor Reading (ppm	0			

COMPOSITE SAMPLE DATA:

Date:	Time	Depth	Color	Description (Sand, Silt, Clay, Moisture, etc.)
Method:				
Monitor Readings (Range in ppm):				

SAMPLE COLLECTION INFORMATION:

Analysis	Container Requirements	Collected	LAB
PAH	(1) 4oz. Glass Jar	✓	Empirical

OBSERVATIONS / NOTES:

MAP:

See map with field notes

Circle if Applicable:

MS/MSD

Duplicate ID No.:

Signature(s): K.W.Lt

Tetra Tech NUS, Inc.

SOIL & SEDIMENT SAMPLE LOG SHEET

Page___ of ___

Project Site Name: FLC-SITE 4
Project No.: 112G03309

[] Surface Soil (SS)
[✓] Subsurface Soil (SU)
[] Sediment (SD)
[] Other:
[] QA Sample Type:

Sample ID No.: FLC-4-P05-0204-022112
Sample Location: FLC-4-P05
Sampled By: KW
C.O.C. No.: 2369

Type of Sample:
[] Low Concentration
[] High Concentration

GRAB SAMPLE DATA:

		Depth	Color	Description (Sand, Silt, Clay, Moisture, etc.)
Date:	2/21/12	2-4'	BROWN	MOIST COARSE SAND
Time:	0955			
Method:	Grab			
Monitor Reading (ppm	0			

COMPOSITE SAMPLE DATA:

Date:	Time	Depth	Color	Description (Sand, Silt, Clay, Moisture, etc.)
Method:				
Monitor Readings (Range in ppm):				

SAMPLE COLLECTION INFORMATION:

Analysis	Container Requirements	Collected	LAB
PAH	(1) 4oz. Glass Jar	✓	Empirical

OBSERVATIONS / NOTES:

H_2O @ 3.5'

MAP:

See map with field notes

Circle if Applicable:

MS/MSD	Duplicate ID No.:

Signature(s): KWLH

Tetra Tech NUS, Inc.

SOIL & SEDIMENT SAMPLE LOG SHEET

Page___ of ___

Project Site Name: FLC-SITE 4
Project No.: 112G03309

[X] Surface Soil (SS)
[] Subsurface Soil (SU)
[] Sediment (SD)
[] Other:
[] QA Sample Type:

Sample ID No.: FLC-4-P06-0624-022112
Sample Location: FLC-4- P06
Sampled By: KW
C.O.C. No.: 2369

Type of Sample:
[] Low Concentration
[] High Concentration

GRAB SAMPLE DATA:

		Depth	Color	Description (Sand, Silt, Clay, Moisture, etc.)
Date:	2/21/12	6-24"	LT BRN	FINE DRY SAND
Time:	1015			
Method:	Grab			
Monitor Reading (ppm	0			

COMPOSITE SAMPLE DATA:

Date:	Time	Depth	Color	Description (Sand, Silt, Clay, Moisture, etc.)
Method:				
Monitor Readings (Range in ppm):				

SAMPLE COLLECTION INFORMATION:

Analysis	Container Requirements	Collected	LAB
PAH	(1) 4oz. Glass Jar	✓	Empirical

OBSERVATIONS / NOTES:

MAP:

See map with field notes

Circle if Applicable:

MS/MSD	Duplicate ID No.:

Signature(s): K. Wilt

Tetra Tech NUS, Inc.

SOIL & SEDIMENT SAMPLE LOG SHEET

Page___ of ___

Project Site Name: FLC-SITE 4
Project No.: 112G03309

[] Surface Soil (SS)
[✓] Subsurface Soil (SU)
[] Sediment (SD)
[] Other:
[] QA Sample Type:

Sample ID No.: FLC-4-P06-0204-022112
Sample Location: FLC-4-P06
Sampled By: KW
C.O.C. No.: 2369

Type of Sample:
[] Low Concentration
[] High Concentration

GRAB SAMPLE DATA:

Date: 2/21/12	Depth	Color	Description (Sand, Silt, Clay, Moisture, etc.)
Time: 1020	2-4'	BROWN	MOIST, COARSE SAND
Method: Grab			
Monitor Reading (ppm 0			

COMPOSITE SAMPLE DATA:

Date:	Time	Depth	Color	Description (Sand, Silt, Clay, Moisture, etc.)
Method:				
Monitor Readings (Range in ppm):				

SAMPLE COLLECTION INFORMATION:

Analysis	Container Requirements	Collected	LAB
PAH	(1) 4oz. Glass Jar	✓	Empirical

OBSERVATIONS / NOTES:

H_2O @ 3.5'

MAP:

See map with field notes

Circle if Applicable:

MS/MSD

Duplicate ID No.: FLC-4-DUP03-022112

Signature(s):

Tetra Tech NUS, Inc.

SOIL & SEDIMENT SAMPLE LOG SHEET

Page___ of ___

Project Site Name: FLC-SITE 4
Project No.: 112G03309

[x] Surface Soil (SS)
[] Subsurface Soil (SU)
[] Sediment (SD)
[] Other:
[] QA Sample Type:

Sample ID No.: FLC-4-P07-0624-022112
Sample Location: FLC-4-P07
Sampled By: KW
C.O.C. No.: 23169

Type of Sample:
[] Low Concentration
[] High Concentration

GRAB SAMPLE DATA:

		Depth	Color	Description (Sand, Silt, Clay, Moisture, etc.)
Date:	2/21/12	6-24"	LT. BRN	DRY, FINE SAND
Time:	1025			
Method:	Grab			
Monitor Reading (ppm	0			

COMPOSITE SAMPLE DATA:

Date:	Time	Depth	Color	Description (Sand, Silt, Clay, Moisture, etc.)
Method:				
Monitor Readings (Range in ppm):				

SAMPLE COLLECTION INFORMATION:

Analysis	Container Requirements	Collected	LAB
PAH	(1) 4oz. Glass Jar	✓	Empirical

OBSERVATIONS / NOTES:

MAP:

See map with field notes

Circle if Applicable:

MS/MSD	Duplicate ID No.:

Signature(s): K. Wilt

Tetra Tech NUS, Inc.

SOIL & SEDIMENT SAMPLE LOG SHEET

Page___ of ___

Project Site Name: FLC-SITE 4
Project No.: 112G03309

[] Surface Soil (SS)
[✓] Subsurface Soil (SU)
[] Sediment (SD)
[] Other:
[] QA Sample Type:

Sample ID No.: FLC-4-P07-0204-022112
Sample Location: FLC-4- P07
Sampled By: KW
C.O.C. No.: 23169

Type of Sample:
[] Low Concentration
[] High Concentration

GRAB SAMPLE DATA:

		Depth	Color	Description (Sand, Silt, Clay, Moisture, etc.)
Date:	2/21/12	2-4'	BROWN	MOIST COARSE SAND
Time:	1030			
Method:	Grab			
Monitor Reading (ppm	0			

COMPOSITE SAMPLE DATA:

Date:	Time	Depth	Color	Description (Sand, Silt, Clay, Moisture, etc.)
Method:				
Monitor Readings (Range in ppm):				

SAMPLE COLLECTION INFORMATION:

Analysis	Container Requirements	Collected	LAB
PAH	(1) 4oz. Glass Jar	✓	Empirical

OBSERVATIONS / NOTES:

H_2O @ 4.0'

MAP:

See map with field notes

Circle if Applicable:

MS/MSD

Duplicate ID No.:

Signature(s):

K. Wilt

Tetra Tech NUS, Inc.

SOIL & SEDIMENT SAMPLE LOG SHEET

Page___ of ___

Project Site Name: FLC-SITE 4
Project No.: 112G03309

[✓] Surface Soil (SS)
[] Subsurface Soil (SU)
[] Sediment (SD)
[] Other:
[] QA Sample Type:

Sample ID No.: FLC-4-P08-0624-02 21 12
Sample Location: FLC-4- P08
Sampled By: KW
C.O.C. No.: 2369

Type of Sample:
[] Low Concentration
[] High Concentration

GRAB SAMPLE DATA:

		Depth	Color	Description (Sand, Silt, Clay, Moisture, etc.)
Date:	2/ 21/12	6-24"	LT BRN	DRY FINE SAND
Time:	1035			
Method:	Grab			
Monitor Reading (ppm	0			

COMPOSITE SAMPLE DATA:

Date:	Time	Depth	Color	Description (Sand, Silt, Clay, Moisture, etc.)
Method:				
Monitor Readings (Range in ppm):				

SAMPLE COLLECTION INFORMATION:

Analysis	Container Requirements	Collected	LAB
PAH	(1) 4oz. Glass Jar	✓	Empirical

OBSERVATIONS / NOTES:

MAP:

See map with field notes

Circle if Applicable:

MS/MSD	Duplicate ID No.:

Signature(s): K. Wall

Tetra Tech NUS, Inc.

SOIL & SEDIMENT SAMPLE LOG SHEET

Page___ of ___

Project Site Name: FLC-SITE 4
Project No.: 112G03309

[] Surface Soil (SS)
[x] Subsurface Soil (SU)
[] Sediment (SD)
[] Other:
[] QA Sample Type:

Sample ID No.: FLC-4-P08-0204-022112
Sample Location: FLC-4-P08
Sampled By: KW
C.O.C. No.: 2369

Type of Sample:
[] Low Concentration
[] High Concentration

GRAB SAMPLE DATA:

		Depth	Color	Description (Sand, Silt, Clay, Moisture, etc.)
Date:	2/21/12	2-4'	BROWN	MOIST COARSE SAND
Time:	1040			
Method:	Grab			
Monitor Reading (ppm	0			

COMPOSITE SAMPLE DATA:

	Time	Depth	Color	Description (Sand, Silt, Clay, Moisture, etc.)
Date:				
Method:				
Monitor Readings (Range in ppm):				

SAMPLE COLLECTION INFORMATION:

Analysis	Container Requirements	Collected	LAB
PAH	(1) 4oz. Glass Jar		Empirical

OBSERVATIONS / NOTES:

H_2O @ 4.0'

MAP:

See map with field notes

Circle if Applicable:

MS/MSD	Duplicate ID No.:

Signature(s): R. WLt

Tetra Tech NUS, Inc.

SOIL & SEDIMENT SAMPLE LOG SHEET

Page___ of ___

Project Site Name: FLC-SITE 4
Project No.: 112G03309

[✓] Surface Soil (SS)
[] Subsurface Soil (SU)
[] Sediment (SD)
[] Other:
[] QA Sample Type:

Sample ID No.: FLC-4- P09-0006-022112
Sample Location: FLC-4- P09
Sampled By: KW
C.O.C. No.: 2369

Type of Sample:
[] Low Concentration
[] High Concentration

GRAB SAMPLE DATA:

		Depth	Color	Description (Sand, Silt, Clay, Moisture, etc.)
Date:	2/ 21/12	0-6"	DARK BRN	FINE SAND w/ ORGANICS
Time:	1050			
Method:	Grab			
Monitor Reading (ppm	0			

COMPOSITE SAMPLE DATA:

	Time	Depth	Color	Description (Sand, Silt, Clay, Moisture, etc.)
Date:				
Method:				
Monitor Readings (Range in ppm):				

SAMPLE COLLECTION INFORMATION:

Analysis	Container Requirements	Collected	LAB
PAH	(1) 4oz. Glass Jar	✓	Empirical

OBSERVATIONS / NOTES:

MAP:

See map with field notes

Circle if Applicable:

MS/MSD	Duplicate ID No.:

Signature(s): K. Wll

Tetra Tech NUS, Inc.

SOIL & SEDIMENT SAMPLE LOG SHEET

Page___ of ___

Project Site Name: FLC-SITE 4
Project No.: 112G03309

[✓] Surface Soil (SS)
[] Subsurface Soil (SU)
[] Sediment (SD)
[] Other:
[] QA Sample Type:

Sample ID No.: FLC-4-P09-0624-02 2112
Sample Location: FLC-4- P09
Sampled By: KW
C.O.C. No.: 23609

Type of Sample:
[] Low Concentration
[] High Concentration

GRAB SAMPLE DATA:

		Depth	Color	Description (Sand, Silt, Clay, Moisture, etc.)
Date:	2/ 21/12	6-24"	LT BRN	COARSE SAND, ROCKS
Time:	1055			
Method:	Grab			
Monitor Reading (ppm	0			

COMPOSITE SAMPLE DATA:

	Time	Depth	Color	Description (Sand, Silt, Clay, Moisture, etc.)
Date:				
Method:				
Monitor Readings (Range in ppm):				

SAMPLE COLLECTION INFORMATION:

Analysis	Container Requirements	Collected	LAB
PAH	(1) 4oz. Glass Jar	✓	Empirical

OBSERVATIONS / NOTES:

MAP:

See map with field notes

Circle if Applicable:

MS/MSD	Duplicate ID No.:

Signature(s): K. Wilt

Tetra Tech NUS, Inc.

SOIL & SEDIMENT SAMPLE LOG SHEET

Page___ of ___

Project Site Name: FLC-SITE 4
Project No.: 112G03309

[] Surface Soil (SS)
[] Subsurface Soil (SU)
[] Sediment (SD)
[] Other:
[] QA Sample Type:

Sample ID No.: FLC-4-P09-0204-022112
Sample Location: FLC-4-P09
Sampled By: KW
C.O.C. No.: 2369

Type of Sample:
[] Low Concentration
[] High Concentration

GRAB SAMPLE DATA:

		Depth	Color	Description (Sand, Silt, Clay, Moisture, etc.)
Date:	2/21/12	2-4'	LT BRN	MOIST ROCKY MID GRAIN SAND
Time:	1100			
Method:	Grab			
Monitor Reading (ppm	0			

COMPOSITE SAMPLE DATA:

	Time	Depth	Color	Description (Sand, Silt, Clay, Moisture, etc.)
Date:				
Method:				
Monitor Readings (Range in ppm):				

SAMPLE COLLECTION INFORMATION:

Analysis	Container Requirements	Collected	LAB
PAH	(1) 4oz. Glass Jar	✓	Empirical

OBSERVATIONS / NOTES:

H_2O @ 4.1'

MAP:

See map with field notes

Circle if Applicable:

MS/MSD	Duplicate ID No.:

Signature(s): R. Will

Tetra Tech

SOIL & SEDIMENT SAMPLE LOG SHEET

Project Site Name: FLC-Site 4
Project No.: 112G03309

[X] Surface Soil
[] Subsurface Soil
[] Sediment
[] Other:
[] QA Sample Type:

Sample ID No.: FLC-4-SB05-0006-042612
Sample Location: FLC-4-SB05
Sampled By: PJ
C.O.C. No.: 884

Type of Sample:
[] Low Concentration
[] High Concentration

GRAB SAMPLE DATA:

		Depth Interval	Color	Description (Sand, Silt, Clay, Moisture, etc.)
Date:	4/26/2012	0-0.5 feet	Light Brown	Dry sand with small orange rocks and bits of clay
Time:	845			
Method:	Grab			
Monitor Reading (ppm	0			

COMPOSITE SAMPLE DATA:

Date:	Time	Depth Interval	Color	Description (Sand, Silt, Clay, Moisture, etc.)
Method:				
Monitor Readings (Range in ppm):				

SAMPLE COLLECTION INFORMATION:

Analysis	Container Requirements	Collected	Lab
PAH	(1) 4 oz glass jar	X	Empirical

OBSERVATIONS / NOTES:

No petroleum observed in soil

MAP:

See map with field notes

Circle if Applicable:

MS/MSD	Duplicate ID No.:

Signature(s):

Tetra Tech

SOIL & SEDIMENT SAMPLE LOG SHEET

Project Site Name: FLC-Site 4
Project No.: 112G03309

[X] Surface Soil
[] Subsurface Soil
[] Sediment
[] Other:
[] QA Sample Type:

Sample ID No.: FLC-4-SB06-0006-042612
Sample Location: FLC-4-SB06
Sampled By: PJ
C.O.C. No.: 884

Type of Sample:
[] Low Concentration
[] High Concentration

GRAB SAMPLE DATA:

		Depth Interval	Color	Description (Sand, Silt, Clay, Moisture, etc.)
Date:	4/26/2012	0-0.5 feet	Brown	Dry sand with small orange rocks
Time:	900			
Method:	Grab			
Monitor Reading (ppm	0			

COMPOSITE SAMPLE DATA:

Date:	Time	Depth Interval	Color	Description (Sand, Silt, Clay, Moisture, etc.)
Method:				
Monitor Readings (Range in ppm):				

SAMPLE COLLECTION INFORMATION:

Analysis	Container Requirements	Collected	Lab
PAH	(1) 4 oz glass jar	X	Empirical

OBSERVATIONS / NOTES:

No petroleum observed in soil

MAP:

See map with field notes

Circle if Applicable:

MS/MSD	Duplicate ID No.:

Signature(s):

Tetra Tech

SOIL & SEDIMENT SAMPLE LOG SHEET

Project Site Name: FLC-Site 4
Project No.: 112G03309

[X] Surface Soil
[] Subsurface Soil
[] Sediment
[] Other:
[] QA Sample Type:

Sample ID No.: FLC-4-SB07-0006-042612
Sample Location: FLC-4-SB07
Sampled By: PJ
C.O.C. No.: 884

Type of Sample:
[] Low Concentration
[] High Concentration

GRAB SAMPLE DATA:

		Depth Interval	Color	Description (Sand, Silt, Clay, Moisture, etc.)
Date:	4/26/2012	0-0.5 feet	Brown	Dry sand with small orange rocks
Time:	915			
Method:	Grab			
Monitor Reading (ppm	0			

COMPOSITE SAMPLE DATA:

Date:	Time	Depth Interval	Color	Description (Sand, Silt, Clay, Moisture, etc.)
Method:				
Monitor Readings (Range in ppm):				

SAMPLE COLLECTION INFORMATION:

Analysis	Container Requirements	Collected	Lab
PAH	(1) 4 oz glass jar	X	Empirical

OBSERVATIONS / NOTES:

No petroleum observed in soil

MAP:

See map with field notes

Circle if Applicable:

MS/MSD	Duplicate ID No.:

Signature(s):

Tetra Tech

SOIL & SEDIMENT SAMPLE LOG SHEET

Project Site Name: FLC-Site 4
Project No.: 112G03309

[X] Surface Soil
[] Subsurface Soil
[] Sediment
[] Other:
[] QA Sample Type:

Sample ID No.: FLC-4-SB08-0006-042612
Sample Location: FLC-4-SB08
Sampled By: PJ
C.O.C. No.: 884

Type of Sample:
[] Low Concentration
[] High Concentration

GRAB SAMPLE DATA:

		Depth Interval	Color	Description (Sand, Silt, Clay, Moisture, etc.)
Date:	4/26/2012	0-0.5 feet	Brown	Dry sand with small orange rocks
Time:	930			
Method:	Grab			
Monitor Reading (ppm	0			

COMPOSITE SAMPLE DATA:

Date:	Time	Depth Interval	Color	Description (Sand, Silt, Clay, Moisture, etc.)
Method:				
Monitor Readings (Range in ppm):				

SAMPLE COLLECTION INFORMATION:

Analysis	Container Requirements	Collected	Lab
PAH	(1) 4 oz glass jar	X	Empirical

OBSERVATIONS / NOTES:

No petroleum observed in soil

MAP:

See map with field notes

Circle if Applicable:

MS/MSD

Duplicate ID No.: FLC-4-DUP01-042612

Signature(s):

Tetra Tech

SOIL & SEDIMENT SAMPLE LOG SHEET

Project Site Name: FLC-Site 4
Project No.: 112G03309

X [] Surface Soil
[] Subsurface Soil
[] Sediment
[] Other:
[] QA Sample Type:

Sample ID No.: FLC-4-SB09-0024-042612
Sample Location: FLC-4-SB09
Sampled By: PJ
C.O.C. No.: 884

Type of Sample:
[] Low Concentration
[] High Concentration

GRAB SAMPLE DATA:

		Depth Interval	Color	Description (Sand, Silt, Clay, Moisture, etc.)
Date:	4/26/2012	0-2.0 feet	Lt Brown/Brown	Dry sand with small white rocks
Time:	945			
Method:	Grab			
Monitor Reading (ppm	0			

COMPOSITE SAMPLE DATA:

Date:	Time	Depth Interval	Color	Description (Sand, Silt, Clay, Moisture, etc.)
Method:				
Monitor Readings (Range in ppm):				

SAMPLE COLLECTION INFORMATION:

Analysis	Container Requirements	Collected	Lab
PAH	(1) 4 oz glass jar	X	Empirical

OBSERVATIONS / NOTES:

No petroleum observed in soil

MAP:

See map with field notes

Circle if Applicable:

MS/MSD Yes, collected	Duplicate ID No.:

Signature(s):

Tetra Tech

SOIL & SEDIMENT SAMPLE LOG SHEET

Project Site Name: FLC-Site 4
Project No.: 112G03309

[X] Surface Soil
[X] Subsurface Soil
[] Sediment
[] Other:
[] QA Sample Type:

Sample ID No.: FLC-4-SB09-0204-042612
Sample Location: FLC-4-SB09
Sampled By: PJ
C.O.C. No.: 884

Type of Sample:
[] Low Concentration
[] High Concentration

GRAB SAMPLE DATA:

		Depth Interval	Color	Description (Sand, Silt, Clay, Moisture, etc.)
Date:	4/26/2012	0-2.0 feet	Lt Brown	Dry to moist sand with small white rocks, water table encountered at approx. 4-feet bgs
Time:	955			
Method:	Grab			
Monitor Reading (ppm	0			

COMPOSITE SAMPLE DATA:

Date:	Time	Depth Interval	Color	Description (Sand, Silt, Clay, Moisture, etc.)
Method:				
Monitor Readings (Range in ppm):				

SAMPLE COLLECTION INFORMATION:

Analysis	Container Requirements	Collected	Lab
PAH	(1) 4 oz glass jar	X	Empirical

OBSERVATIONS / NOTES:

No petroleum observed in soil

MAP:

See map with field notes

Circle if Applicable:

MS/MSD	Duplicate ID No.:

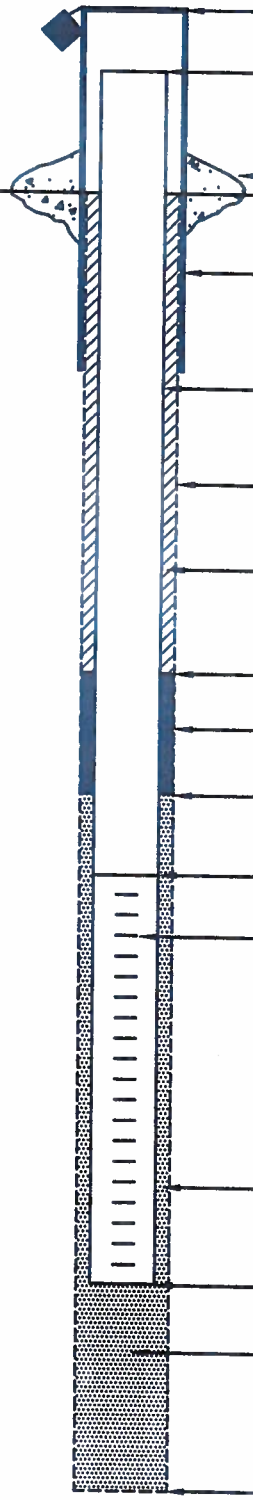
Signature(s):

WELL NO.: FLC-4-MW01

Tetra Tech NUS, Inc.

OVERBURDEN MONITORING WELL SHEET STICK-UP

PROJECT 112G03309	LOCATION SITE 4	DRILLER R. LEBRON
PROJECT NO. FLC	BORING	DRILLING METHOD DPT AUGER
DATE BEGUN 9/27/11	DATE COMPLETED 9/28/11	
FIELD GEOLOGIST K. WEICHERT		DEVELOPMENT METHOD HONDA PUMP
GROUND ELEVATION	DATUM	



ELEVATION/HEIGHT OF TOP OF SURFACE CASING: 3.5'/

ELEVATION/HEIGHT OF TOP OF RISER PIPE: 3.5'/

TYPE OF SURFACE SEAL: CONCRETE

I.D. OF SURFACE CASING: 4"
TYPE OF SURFACE CASING: SQUARE STEEL

RISER PIPE I.D.: 2"
TYPE OF RISER PIPE: PVC SCHEDULE 40

BOREHOLE DIAMETER: 6"

TYPE OF BACKFILL: TYPE I PORTLAND CEMENT

ELEVATION/DEPTH TOP OF SEAL: 0.7/

TYPE OF SEAL: 30/65 FINE SAND

DEPTH TOP OF SAND PACK: 2.7

ELEVATION/DEPTH TOP OF SCREEN: 2.7/

TYPE OF SCREEN: PVC SCHEDULE 40

SLOT SIZE x LENGTH: 0.10 X 12'

I.D. OF SCREEN: 2"

TYPE OF SAND PACK: 20/40 SAND

ELEVATION/DEPTH BOTTOM OF SCREEN: 14.7/

ELEVATION/DEPTH BOTTOM OF SAND PACK: 14.7/
BACKFILL MATERIAL BELOW SAND:

ELEVATION/DEPTH OF HOLE: 14.8 /

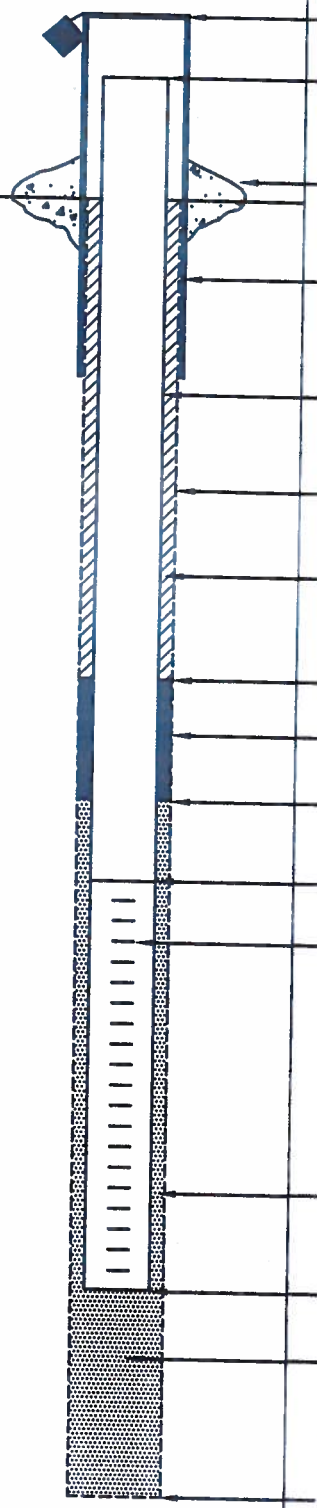
ACAD:FORM_MWSU.dwg 07/28/99 INL

WELL NO.: FLC-4-MWD2

Tetra Tech NUS, Inc.

OVERBURDEN MONITORING WELL SHEET STICK-UP

PROJECT 112G03309	LOCATION SITE 4	DRILLER R. LEBRON
PROJECT NO. FLC	BORING	DRILLING METHOD DPT AUGER
DATE BEGUN 9/27/11	DATE COMPLETED 9/28/11	
FIELD GEOLOGIST K. WEICHERT		DEVELOPMENT METHOD HONDA PUMP
GROUND ELEVATION	DATUM	



ELEVATION/HEIGHT OF TOP OF SURFACE CASING: 3.5'/

ELEVATION/HEIGHT OF TOP OF RISER PIPE: 3.5'/

TYPE OF SURFACE SEAL: CONCRETE

I.D. OF SURFACE CASING: 4"

TYPE OF SURFACE CASING: SQUARE STEEL

RISER PIPE I.D.: 2"

TYPE OF RISER PIPE: PVC SCHEDULE 40

BOREHOLE DIAMETER: 6"

TYPE OF BACKFILL: TYPE I PORTLAND CEMENT

ELEVATION/DEPTH TOP OF SEAL: 1.1/

TYPE OF SEAL: 30/65 FINE SAND

DEPTH TOP OF SAND PACK: 3.1

ELEVATION/DEPTH TOP OF SCREEN: 3.1/

TYPE OF SCREEN: PVC SCHEDULE 40

SLOT SIZE x LENGTH: 0.10 X 12'

I.D. OF SCREEN: 2"

TYPE OF SAND PACK: 20/40 SAND

ELEVATION/DEPTH BOTTOM OF SCREEN: 15.1/

ELEVATION/DEPTH BOTTOM OF SAND PACK: 15.1/

BACKFILL MATERIAL BELOW SAND:

ELEVATION/DEPTH OF HOLE: 15.2/

ACAD:FORM_MWSU.dwg 07/20/99 INL

Form FD 9000-24

GROUNDWATER SAMPLING LOG

SITE NAME: SITE 4	SITE LOCATION: FLC
WELL NO: FLC-4-MW01	SAMPLE ID: FLC-4-MW01-092911
DATE: 9-29-11	

PURGING DATA

WELL DIAMETER (inches): 2	TUBING DIAMETER (inches): 3/16	WELL SCREEN INTERVAL DEPTH: 3 feet to 15 feet (BGS)	STATIC DEPTH TO WATER (feet): 7.86	PURGE PUMP TYPE OR BAILER: PP

WELL VOLUME PURGE: 1 WELL VOLUME = (TOTAL WELL DEPTH – STATIC DEPTH TO WATER) X WELL CAPACITY
(only fill out if applicable)
= (18.5 feet – 7.86 feet) X .16 gallons/foot = x. 3.84/GAL = 6.5 L gallons

EQUIPMENT VOLUME PURGE: 1 EQUIPMENT VOL. = PUMP VOLUME + (TUBING CAPACITY X TUBING LENGTH) + FLOW CELL VOLUME
(only fill out if applicable)
= gallons + (gallons/foot X feet) + gallons = gallons

INITIAL PUMP OR TUBING DEPTH IN WELL (feet): 8.8	FINAL PUMP OR TUBING DEPTH IN WELL (feet): 8.8	PURGING INITIATED AT: 0735	PURGING ENDED AT: 0815	TOTAL VOLUME PURGED (~~gallons~~): 14.0 L

TIME	VOLUME PURGED (~~gallons~~) L	CUMUL. VOLUME PURGED (~~gallons~~) L	PURGE RATE (~~gpm~~) mL	DEPTH TO WATER (feet)	pH (standard units)	TEMP. (°C)	COND. (circle units) µmhos/cm or µS/cm	DISSOLVED OXYGEN (circle units) mg/L or % saturation	TURBIDITY (NTUs)	COLOR (describe)	ODOR (describe)
0735	—	—	350	7.86	—	—	—	—	—	—	—
0755	7.0	7.0	350	7.91	7.09	25.0	511	6.9%	43.18	CLOUDY	—
0805	3.5	10.5	350	7.92	7.09	25.0	509	7.3%	45.77	CLOUDY	—
0815	3.5	14.0	350	7.92	7.08	25.0	509	7.1%	46.02	CLOUDY	—
0820- SAMPLE TIME *											

WELL CAPACITY (Gallons Per Foot): **0.75"** = 0.02; **1"** = 0.04; **1.25"** = 0.06; **2"** = 0.16; **3"** = 0.37; **4"** = 0.65; **5"** = 1.02; **6"** = 1.47; **12"** = 5.88
TUBING INSIDE DIA. CAPACITY (Gal./Ft.): **1/8"** = 0.0006; **3/16"** = 0.0014; **1/4"** = 0.0026; **5/16"** = 0.004; **3/8"** = 0.006; **1/2"** = 0.010; **5/8"** = 0.016

PURGING EQUIPMENT CODES: B = Bailer; **BP** = Bladder Pump; **ESP** = Electric Submersible Pump; **PP** = Peristaltic Pump; **O** = Other (Specify)

SAMPLING DATA

SAMPLED BY (PRINT) / AFFILIATION: K. WEICHERT	SAMPLER(S) SIGNATURE(S): [signature]	SAMPLING INITIATED AT: 0820	SAMPLING ENDED AT: 0845
PUMP OR TUBING DEPTH IN WELL (feet): 8.8	TUBING MATERIAL CODE: PE	FIELD-FILTERED: (Y) N Filtration Equipment Type:	FILTER SIZE: — µm
FIELD DECONTAMINATION: PUMP Y (N)	TUBING Y (N (replaced))	DUPLICATE: Y (N)	

SAMPLE CONTAINER SPECIFICATION				SAMPLE PRESERVATION			INTENDED ANALYSIS AND/OR METHOD	SAMPLING EQUIPMENT CODE	SAMPLE PUMP FLOW RATE (mL per minute)
SAMPLE ID CODE	# CONTAINERS	MATERIAL CODE	VOLUME	PRESERVATIVE USED	TOTAL VOL ADDED IN FIELD (mL)	FINAL pH			
1	2	AG	1L	HCl	1L		TRPH		
2	2	AG	1L	—	1L		SVOC		
3	1	AG	1L	—	1L		PEST/PCB		
4	1	P	250	HNO_3	250		TOTAL METALS		
5	1	P	250	HNO_3	250		FILTERED METALS		
6	3	CG	40mL	HCl	40mL		VOCS		
7	2	CG	40mL	HCl	40mL	-	1,4 DIOXANE		
8	2	AG	1L	HCl	1L	-	SPECIATED TPH		
9	2	CG	40mL	HCl	40mL	-	VPH		

REMARKS: * ALL PARAMETERS STABLE

MATERIAL CODES: **AG** = Amber Glass; **CG** = Clear Glass; **PE** = Polyethylene; **PP** = Polypropylene; **S** = Silicone; T = Teflon; **O** = Other (Specify)

SAMPLING EQUIPMENT CODES: **APP** = After Peristaltic Pump; **B** = Bailer; **BP** = Bladder Pump; **ESP** = Electric Submersible Pump; **RFPP** = Reverse Flow Peristaltic Pump; **SM** = Straw Method (Tubing Gravity Drain); **O** = Other (Specify)

NOTES: 1. The above do not constitute all of the information required by Chapter 62-160, F.A.C.
2. STABILIZATION CRITERIA FOR RANGE OF VARIATION OF LAST THREE CONSECUTIVE READINGS (SEE FS 2212, SECTION 3)
pH: ± 0.2 units **Temperature:** ± 0.2 °C **Specific Conductance:** ± 5% **Dissolved Oxygen:** all readings ≤ 20% saturation (see Table FS 2200-2); optionally, ± 0.2 mg/L or ± 10% (whichever is greater) **Turbidity:** all readings ≤ 20 NTU; optionally ± 5 NTU or ± 10% (whichever is greater)

Revision Date: February 12, 2009

Form FD 9000-24

GROUNDWATER SAMPLING LOG

SITE NAME: SITE 4	SITE LOCATION: FLC	
WELL NO: FLC-4-MW02	SAMPLE ID: FLC-~~MW02~~ 4-MW02-092911	DATE: 9-29-11

PURGING DATA

WELL DIAMETER (inches): 2	TUBING DIAMETER (inches): 3/16	WELL SCREEN INTERVAL DEPTH: 3 feet to 15 ~~13.65~~ feet	STATIC DEPTH TO WATER (feet): 8.01	PURGE PUMP TYPE OR BAILER:

WELL VOLUME PURGE: 1 WELL VOLUME = (TOTAL WELL DEPTH – STATIC DEPTH TO WATER) X WELL CAPACITY
(only fill out if applicable)
= (18.5 feet – 8.01 feet) X .16 (3.8 L/gal) = 6.4 L gallons/foot = gallons

EQUIPMENT VOLUME PURGE: 1 EQUIPMENT VOL. = PUMP VOLUME + (TUBING CAPACITY X TUBING LENGTH) + FLOW CELL VOLUME
(only fill out if applicable)
= gallons + (gallons/foot X feet) + gallons = gallons

INITIAL PUMP OR TUBING DEPTH IN WELL (feet): 9.0'	FINAL PUMP OR TUBING DEPTH IN WELL (feet): 9.0'	PURGING INITIATED AT: 0855	PURGING ENDED AT: 0925	TOTAL VOLUME PURGED (~~gallons~~): 10.5 L

TIME	VOLUME PURGED (~~gallons~~ L)	CUMUL. VOLUME PURGED (~~gallons~~ L)	PURGE RATE (~~gpm~~ mL)	DEPTH TO WATER (feet)	pH (standard units)	TEMP. (°C)	COND. (circle units) µmhos/cm or µS/cm	DISSOLVED OXYGEN (circle units) mg/L or % saturation	TURBIDITY (NTUs)	COLOR (describe)	ODOR (describe)
0855	—	—	.350	8.01	—	—	—	—	—	—	—
0915	7.0	7.0	.350	8.16	7.08	24.4	625	3.6%	52.84	CLOUDY	—
0920	1.75	8.75	.350	8.16	7.10	24.3	625	2.9%	51.03	CLOUDY	—
0925	1.75	10.5	.350	8.17	7.09	24.3	624	3.0%	52.29	CLOUDY	—
0930- SAMPLE TIME - ALL PARAMETERS STABLE											

WELL CAPACITY (Gallons Per Foot): **0.75"** = 0.02; **1"** = 0.04; **1.25"** = 0.06; **2"** = 0.16; **3"** = 0.37; **4"** = 0.65; **5"** = 1.02; **6"** = 1.47; **12"** = 5.88
TUBING INSIDE DIA. CAPACITY (Gal./Ft.): **1/8"** = 0.0006; **3/16"** = 0.0014; **1/4"** = 0.0026; **5/16"** = 0.004; **3/8"** = 0.006; **1/2"** = 0.010; **5/8"** = 0.016
PURGING EQUIPMENT CODES: **B** = Bailer; **BP** = Bladder Pump; **ESP** = Electric Submersible Pump; **PP** = Peristaltic Pump; **O** = Other (Specify)

SAMPLING DATA

SAMPLED BY (PRINT) / AFFILIATION: K. WEICHERT	SAMPLER(S) SIGNATURE(S): K-WLt	SAMPLING INITIATED AT: 0930	SAMPLING ENDED AT: 1000
PUMP OR TUBING DEPTH IN WELL (feet): 9.0'	TUBING MATERIAL CODE: PE	FIELD-FILTERED: (Y) N Filtration Equipment Type:	FILTER SIZE: 1 µm
FIELD DECONTAMINATION: PUMP Y (N)	TUBING Y (N (replaced))	DUPLICATE: Y (N)	

SAMPLE CONTAINER SPECIFICATION				SAMPLE PRESERVATION			INTENDED ANALYSIS AND/OR METHOD	SAMPLING EQUIPMENT CODE	SAMPLE PUMP FLOW RATE (mL per minute)
SAMPLE ID CODE	# CONTAINERS	MATERIAL CODE	VOLUME	PRESERVATIVE USED	TOTAL VOL ADDED IN FIELD (mL)	FINAL pH			
1									
2									
3									
4									
5									
6									

REMARKS: 7, 8, 9

MATERIAL CODES: **AG** = Amber Glass; **CG** = Clear Glass; **PE** = Polyethylene; **PP** = Polypropylene; **S** = Silicone; **T** = Teflon; **O** = Other (Specify)

SAMPLING EQUIPMENT CODES: **APP** = After Peristaltic Pump; **B** = Bailer; **BP** = Bladder Pump; **ESP** = Electric Submersible Pump; **RFPP** = Reverse Flow Peristaltic Pump; **SM** = Straw Method (Tubing Gravity Drain); **O** = Other (Specify)

NOTES: 1. The above do not constitute all of the information required by Chapter 62-160, F.A.C.
2. STABILIZATION CRITERIA FOR RANGE OF VARIATION OF LAST THREE CONSECUTIVE READINGS (SEE FS 2212, SECTION 3)
pH: ± 0.2 units **Temperature:** ± 0.2 °C **Specific Conductance:** ± 5% **Dissolved Oxygen:** all readings ≤ 20% saturation (see Table FS 2200-2); optionally, ± 0.2 mg/L or ± 10% (whichever is greater) **Turbidity:** all readings ≤ 20 NTU; optionally ± 5 NTU or ± 10% (whichever is greater)

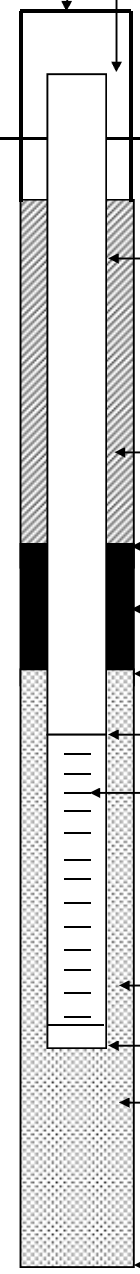
Revision Date: February 12, 2009

Tetra Tech, Inc.

WELL No.: FLC-4-MWNFD1R

MONITORING WELL SHEET

PROJECT:	FLC Navy Depot	DRILLING Co.:	Probe Domain	BORING No.:	
PROJECT No.:	112G03309	DRILLER:	J. Laymon	DATE COMPLETED:	04/25/12
SITE:	Site 4	DRILLING METHOD:	DPT Auger	NORTHING:	
GEOLOGIST:	P. Johnson	DEV. METHOD:	Pumping	EASTING:	



Not to Scale

Elevation / Depth of Top of Riser:		~3.5'/
Elevation / Height of Top of Surface Casing:		~3.5'/
I.D. of Surface Casing:	4"	
Type of Surface Casing:	Square Steel	
Type of Surface Seal:	Concrete	
I.D. of Riser:	2"	
Type of Riser:	PVC Sch 40	
Borehole Diameter:	8"	
Type of Backfill:	Portland Cement	
Elevation / Depth of Seal:		1.2'/
Type of Seal:	Bentonite	
Elevation / Depth of Top of Filter Pack:		5.2'/
Elevation / Depth of Top of Screen:		5.20/
Type of Screen:	2" PVC Sch 40	
Slot Size x Length:	10 slot, 10'	
I.D. of Screen:	2"	
Type of Filter Pack:	N/A	
Elevation / Depth of Bottom of Screen:		15.20/
Elevation / Depth of Bottom of Filter Pack:		N/A/
Type of Backfill Below Well:		
Elevation / Total Depth of Borehole:		15.2/

Tetra Tech NUS / FDEP Groundwater Sampling Sheet

SITE NAME: Site 4	SITE LOCATION: FLC
WELL NO: FLC-4-MW-NFDIR	SAMPLE ID: FLC-4-~~GW~~-MW-NFDIR-20120511 / DATE: 5/11/12

PURGING DATA

WELL DIAMETER (inches): 2	TUBING DIAMETER (inches): 3/16	WELL SCREEN INTERVAL DEPTH: 8 feet to 18 feet	STATIC DEPTH TO WATER (feet): 7.98	PURGE PUMP TYPE OR BAILER: Peristaltic

WELL VOLUME PURGE: 1 WELL VOLUME = (TOTAL WELL DEPTH – STATIC DEPTH TO WATER) X WELL CAPACITY
only fill out if applicable) 5.96 Liters

EQUIPMENT VOLUME PURGE: 1 EQUIPMENT VOL. = PUMP VOLUME + (TUBING CAPACITY X TUBING LENGTH) + FLOW CELL VOLUME
(only fill out if applicable) _____ Liters

INITIAL PUMP OR TUBING DEPTH IN WELL (feet): 8.5	FINAL PUMP OR TUBING DEPTH IN WELL (feet): 8.5	PURGING INITIATED AT: 1020	PURGING ENDED AT: 1101	TOTAL VOLUME PURGED (Liters): 6.2

TIME	VOLUME PURGED (Liters)	CUMUL. VOLUME PURGED (Liters)	PURGE RATE (lpm)	DEPTH TO WATER (feet)	pH (standard units)	TEMP. (°C)	COND. (µmhos/cm or µS/cm)	DISSOLVED OXYGEN (circle mg/L or % saturation)	TURBIDITY (NTUs)	COLOR (describe)	ODOR (describe)
1020	—	—	200	7.98	—	—	—	—	—	—	—
1055	5.0	5.0	200	7.99	7.01	21.85	0.483	3.4	4.30	clear	none
1058	.6	5.6	200	8.01	7.00	21.88	0.484	3.3	3.58	clear	none
1101	.6	6.2	200	8.00	7.00	21.86	0.484	3.3	2.90	clear	none
1106	Sample time										

WELL CAPACITY (Gallons Per Foot): **0.75"** = 0.02; **1"** = 0.04; **1.25"** = 0.06; **2"** = 0.16; **3"** = 0.37; **4"** = 0.65; **5"** = 1.02; **6"** = 1.47; **12"** = 5.88
TUBING INSIDE DIA. CAPACITY (Gal./Ft.): **1/8"** = 0.0006; **3/16"** = 0.0014; **1/4"** = 0.0026; **5/16"** = 0.004; **3/8"** = 0.006; **1/2"** = 0.010; **5/8"** = 0.016

SAMPLING DATA

SAMPLED BY (PRINT) / AFFILIATION: Jeff Krone	SAMPLER(S) SIGNATURES: [signature]	SAMPLING INITIATED AT: 1106	SAMPLING ENDED AT: 1125
PUMP OR TUBING DEPTH IN WELL (feet): 8.5	SAMPLE PUMP FLOW RATE (mL per minute): 200	TUBING MATERIAL CODE: Teflon	
FIELD DECONTAMINATION: Y (N)	FIELD-FILTERED: Y (N) Filtration Equipment Type: _____ FILTER SIZE: ____ µm	DUPLICATE: (Y) N MS/MSD	

SAMPLE CONTAINER SPECIFICATION				SAMPLE PRESERVATION			INTENDED ANALYSIS AND/OR METHOD	SAMPLING EQUIPMENT CODE
SAMPLE ID CODE	# CONTAINERS	MATERIAL CODE	VOLUME	PRESERVATIVE USED	TOTAL VOL ADDED IN FIELD (mL)	FINAL pH		
APP	6	AG	1 liter	none			PAH	

REMARKS:

MATERIAL CODES: **AG** = Amber Glass; **CG** = Clear Glass; **PE** = Polyethylene; **PP** = Polypropylene; **S** = Silicone; **T** = Teflon; **O** = Other (Specify)

SAMPLING/PURGING EQUIPMENT CODES: **APP** = After Peristaltic Pump; **B** = Bailer; **BP** = Bladder Pump; **ESP** = Electric Submersible Pump; **PP** = Peristaltic Pump; **RFPP** = Reverse Flow Peristaltic Pump; **SM** = Straw Method (Tubing Gravity Drain); **VT** = Vacuum Trap; **O** = Other (Specify)

APPENDIX C

FIELD NOTES AND FORMS

112603309

SOIL SAMPLING

9/22/11

PERSONNEL: B. MARSHALL, K. WEICHERT, Z. SCRIBNER
TRUCK: RENTAL
PPE: LEVEL "D"
WEATHER: WARM, SUNNY, PARTLY CLOUDY, CHANCE OF RAIN
OBJECTIVE: COLLECT SOIL SAMPLES AT SITES 4+5

0630 BM, KW, + ZS AT TENUS OFFICE LOADING TRUCK.
0700 CREW DEPARTS FOR SITE
0730 ALL CREW ON SITE - BEGIN SETTING UP AT SITE 4
0815 CREW BEGINS COLLECTING SOIL SAMPLES - SEE TABLE BELOW AND SOIL SAMPLE LOG SHEETS FOR DETAILS

TIME	SAMPLE ID	PID SCREENING UNFILTERED	PID SCREENING FILTERED	ANALYSES / NOTES
0845	FLC-4-SS01-0006-092211	8.6 ppm	0.0 ppm	1 2 3 4 5 6 7 8
0900	FLC-4-SS01-0624-092211	0.8	0.0	1 2 3 4 5 6 7 8 *
0925	FLC-4-SB01-0204-092211	0.2	0.0	1 2 3 4 5 6 7 8
1005	FLC-4-SS02-0006-092211	6.7	0.0	1 2 3 4 5 6 7 8
1020	FLC-4-SS02-0624-092211	2.2	0.0	1 2 3 4 5 6 7 8
1030	FLC-4-SB02-0204-092211	0.2	0.0	1 2 3 4 5 6 7 8
1045	FLC-4-SSC-0006-092211	COMPOSITE		9 - 00"-06"
1050	FLC-4-SSC-0624-092211	COMPOSITE		9 - 06"-24"
1055	FLC-4-SSC-0204-092211	COMPOSITE		9 - 2'-4'
1115	FLC-4-RB01-092211	RINSATE		1 2 3 4 5 6 7 8 9
1210	FLC-5-SS05-0006-092211	0.0	—	1 2 3 4 5 6 7 8
1225	FLC-5-SS05-0624-092211	2.5	0.0	1 2 3 4 5 6 7 8
1235	FLC-5-SB05-0204-092211	0.3	0.0	1 2 3 4 5 6 7 8
1305	FLC-5-SS04-0006-092211	17.2	0.0	1 2 3 4 5 6 7 8
1320	FLC-5-SS04-0624-092211	12.6	0.0	1 2 3 4 5 6 7 8
1335	FLC-5-SB04-0204-092211	0.0	-	1 2 3 4 5 6 7 8
1400	FLC-5-SB04-0406-092211	113.7	0.0	1 2 3 4 5 6 7 8
1435	FLC-5-SS03-0006-092211	0.0	—	1 2 3 4 5 6 7 8
1445	FLC-5-SS03-0624-092211	0.0	—	1 2 3 4 5 6 7 8
1455	FLC-5-SB03-0204-092211	0.0	-	1 2 3 4 5 6 7 8
1505	FLC-5-SB03-0406-092211	0.0	—	1 2 3 4 5 6 7 8

* MS/MSD COLLECTED 1 VOCs, 2 SVOCs 3 PEST/PCB 4 TOTAL METALS 5 FL PRO 6 SP. TPH - VPH 7 SP. TPH - EPH 8 1,4 DIOXANE 9 DIOXINS FURANS

→

SAMPLE NOMENCLATURE:

FLC-ZAABB-XXXX-YYYYYY

FLC = FLEET LOGISTICS CENTER
Z = SITE → 4 = SITE 4, 5 = SITE 5
AA = SURFACE (SS) OR SUBSURFACE (SB)
XXXX = DEPTH INTERVAL - EXAMPLE:
SURFACE 0006 = 00" — 06"
SUBSURFACE 0204 = 02' - 04'
YYYYYY = DATE EX. 092211 = SEPT 22, 2011

1530 - CREW BEGINS LOADING UP
1600 - CREW DEPARTS SITE.

KPW

K. Wolf

PERSONNEL: K. WEICHERT (TETRA TECH)
R. LeBRON - (GW PROTECTION)
D. CURTIN - (GW PROTECTION)
TRUCK: 2006 F250
PPE: LEVEL "D"
WEATHER: WARM, PARTLY CLOUDY, CHANCE OF RAIN
OBJECTIVE: INSTALL MONITORING WELLS AT SITE 4+5 SOIL BORING LOCATIONS

0600 KW AT TETRA TECH OFFICE
0700 KW DEPARTS FOR FLC
0800 KW AT FLC - PHONES DRILLERS TO ENSURE THEY HAVE GOOD DIRECTIONS TO THE SITE.
0830 KW BEGINS CALIBRATING FID FOR MONITORING
0915 RL + DC OF GW PROTECTION ON SITE.
0920 CREW ON BASE - TAILGATE H+S MEETING CONDUCTED.
0940 CREW BEGINS WORK AT SITE 4
0950 CREW BEGINS INSTALLING FLC-4-MW01

MW01
- 15' BGS 3'-15' SCREEN
- FID: 15.6 ppm
- CUTTINGS IN DRUM FLC-4-001

1015- MW01 INSTALLED - WELL COMPLETION WILL BE DONE TOMORROW
- CREW DECONS RODS

1035- CREW BEGINS INSTALLING FLC-4-MW02

MW02
- 15' BGS 3'-15' SCREEN
- FID: 0.2 ppm
- CUTTINGS IN DRUM FLC-4-002

1105 MW02 INSTALLED - WELL NOT YET COMPLETED.
1125 CREW AT SITE 5 - BEGINS WORK ON FLC-5-MW01

MW01
- 15' BGS 3'-15' SCREEN
- FID: 22.0 ppm
- CUTTINGS IN DRUM FLC-5-001

1200 CREW BEGINS WORK ON FLC-5-MW02

MW02
- 15' BGS - FID: 0.0 ppm 3'-15' SCREEN
- CUTTINGS IN DRUM FLC-5-002 →

112603309

MW INSTALLATION

9/28/11

1245 CREW BEGINS WORK ON FLC-5-MW03

MW03

- 15' BGS 3'- 15' SCREEN
- FID: 2.2 ppm
- CUTTINGS IN DRUM FLC-5-003

1330 CREW BEGINS WORK ON FLC-5-MW04

MW04

- 15' BGS 3'- 15' SCREEN
- FID: 0.1 ppm
- CUTTINGS IN DRUM FLC-5-004

1400 IT BEGINS RAINING ON SITE- CREW STOPS DRILLING, AND STARTS MOVING DRUMS TO STAGING AREA.

1445- CREW DEPARTS SITE.

PERSONNEL: K. WEICHERT (TENUS)
R. LEBRON, D. CORTIN (GW PROTECTION)
TRUCK: 2006 F250
PPE: LEVEL "D"
WEATHER: WARM, CLOUDY, CHANCE OF RAIN
OBJECTIVE: COMPLETE MW INSTALLATIONS AT SITES 4+5

0530 KW AT OFFICE LOADING TRUCK.
0545 KW DEPARTS FOR SITE.
0620 KW AT FLC
0640 DRILLERS ON SITE- ALL CREW ENTERS BASE
0710 CREW ONSITE- BEGIN INSTALLING FLC-5-MW05 AND DEVELOPING WELLS

MW05
- 15' BGS 3'-15' SCREEN
- FID: 17.7 PPM
- CUTTINGS IN DRUM FLC-5-005

0800 - MW05 INSTALLED- CREW BEGINS INSTALLING STICK UP CASINGS, CONCRETE PADS, AND BALLARDS

DEVELOPMENT DRUMS - SITES

FLC-5-006
- DEV. H_2O
- MW01- 20 gal
- MW02- 20 gal

FLC-5-007
- DEV H_2O
- MW03- 10 gal
- MW04- 10 gal
- MW05- 10 gal

1130 SITE 5 WELL COMPLETION AND DEVELOPMENT COMPLETE - CREW HEADS TO SITE 4, AND BEGINS COMPLETION AND DEVELOPMENT OF BOTH SITE 4 MONITORING WELLS.

→

112G03309

MW INSTALLATION

9-28-11

DEVELOPMENT DRUM - SITE 4

FLC-4-003
- DEV H_2O
- MW01 - 15 GAL
- MW02 - 15 GAL

1445 - ALL WELLS COMPLETED - CREW DEPARTS SITE

JPW

W. Inlet

112G03309 GW SAMPLING 9-29-11

PERSONNEL: K. WEICHERT
TRUCK: 2006 F250
PPE: LEVEL "D"
WEATHER: WARM, SUNNY,
OBJECTIVE: COLLECT GW SAMPLES AT SITES 4+5

0530 KW AT TENUS OFFICE LOADING UP
0610 KW DEPARTS FOR SITE
0650 KW ON SITE- BEGINS SETTING UP AND SAMPLING WELLS. SEE TABLE BELOW AND GW SAMPLE LOG SHEETS FOR DETAILS

WELL	SAMPLE ID	PURGE START	PURGE STOP	SAMPLE TIME	ANALYSES / NOTES
MW01	FLC-4-MW01-092911	0735	0815	0820	1
4-MW02	FLC-4-MW02-092911	0855	0925	0930	1
5-MW05	FLC-5-MW05-092911	1050	1120	1125	1
5-MW04	FLC-5-MW04-092911	1215	1245	1250	1
5-MW03	FLC-5-MW03-092911	1325	1355	1400	1
—	FLC-RB02-092911	—	—	1435	1 - RINSATE

1 VOCs, SVOCs, FL PRO, TOTAL METALS, FIELD FILTERED METALS, PEST/PCB, 1,4 DIOXANE, SP TPH-VPH, SP TPH-EPH

1500 - KW DEPARTS SITE

FLC= FLEET LOGISTICS CENTER
4= SITE 4
5= SITE 5
092911= SEPT 29, 2011

KPW

Tetra Tech NUS, Inc.

DAILY ACTIVITIES RECORD

PROJECT NAME:	FLC - 4+5	PROJECT NUMBER:	112603309
CLIENT:	US NAVY	LOCATION:	SITE 4+5
DATE:	9-27-11	ARRIVAL TIME:	0915
Tt NUS PERSONNEL:	K. WEICHERT	DEPARTURE TIME:	1600
CONTRACTOR:	GW PROTECTION	DRILLER:	R. LEBRON

ITEM	QUANTITY ESTIMATE	QUANTITY TODAY	PREVIOUS TOTAL QUANTITY	CUMULATIVE QUANTITY TO DATE
MOBILIZATION	1	1	0	1
RIG RATE	2	1	0	1
MW INSTALL	7	6	0	6 *
CASING	7	6	0	6
DRUMS	10	6	0	6

COMMENTS: * 6 WELLS AT 15 FEET BGS w/ 12' SCREEN

APPROVED BY:

Tt NUS REPRESENTATIVE

Raymond LeBron
DRILLER

DATE: 9-27-11

Tetra Tech NUS, Inc.

DAILY ACTIVITIES RECORD

PROJECT NAME:	FLC 4+5	PROJECT NUMBER:	112G03309
CLIENT:	US NAVY	LOCATION:	SITE 4+5
DATE:	9-28-11	ARRIVAL TIME:	0640
Tt NUS PERSONNEL:	K. LOEICHERT	DEPARTURE TIME:	
CONTRACTOR:	GW. PROTECTION	DRILLER:	R. LEBRON

ITEM	QUANTITY ESTIMATE	QUANTITY TODAY	PREVIOUS TOTAL QUANTITY	CUMULATIVE QUANTITY TO DATE
DEMOBILIZATION	1	1	0	1
RIG RATE	2	1	1	2
MW INSTALL	7	1	6	7 (1)
DEVELOPMENT	7	7	0	7
CASING/BALLARDS/PADS	7	7	0	7 *
DRUMS	10	4	6	10 (2)
PERMITTING	7	7 (3)	0	7

COMMENTS: *STICK UP CASING, 2'x2' CONCRETE PAD, AND 3 BALLARDS PER WELL

(1) SEVEN WELLS @ 15' BGS (2) 7 SOIL DRUMS, 3 H_2O - ALL PLASTIC

(3) PERMITS COMPLETED BY GW PROTECTION AT OFFICE

APPROVED BY:

Tt NUS REPRESENTATIVE

Raymond LeBron

DRILLER

DATE: 9-28-11

Tetra Tech NUS, Inc.

GROUNDWATER LEVEL MEASUREMENT SHEET

Project Name: SITE 4 + 5
Project No.: 112G03309
Location: FLC
Personnel: K. WEICHERT
Weather Conditions: WARM, 82°, SUNNY
Measuring Device: HERON
Tidally Influenced: Yes ___ No ___
Remarks:

Well or Piezometer Number	Date	Time	Elevation of Reference Point (feet)*	Total Well Depth (feet)*	Water Level Indicator Reading (feet)*	Thickness of Free Product (feet)*	Groundwater Elevation (feet)*	Comments FID READING (PPM)
4-MW01	9/30	0735		18.2'	8.08'			2902 / 364.5
4-MW02	9/30	0737		18.6'	8.48'			1792 / 603.1
5-MW01	9/30	0814		18.7'	9.60			30.2 / 0.00
5-MW02	9/30	0816		18.5	9.94			7.0 / 0.00
5-MW03	9/30	0819		18.5	11.64			0.0 / 0.0
5-MW04	9/30	0821		18.2	10.68			19.5 / 0.5
5-MW05	9/30	0824		18.2	8.63			3038 / 262.8
*	ALL WELLS HAVE ABOUT 4' STICKUP							

* All measurements to the nearest 0.01 foot

112G03309 SITE 4: PHASE II SOIL SAMPLING 2-21-12

PERSONNEL: K. WEICHERT, D. SIEFKEN
TRUCK: 2006 F250
PPE: LEVEL "D"
WEATHER: COOL, 58°, PARTLY CLOUDY
OBJ: COLLECT SOIL SAMPLES AT SITE 4

0600 KW AT TENUS OFFICE LOADING UP
0700 KW DEPARTS FOR FLC
0730 KW + DS AT FLC, BEGIN SETTING UP FOR TODAY'S ACTIVITIES
0800 KW + DS BEGIN SOIL SAMPLING AT SITE 4

TIME	SAMPLE ID	INTERVAL	NOTES
0800	FLC-4-SS03-0006-022112 *	0"-6"	FINE BRN SAND, ORGANICS
0810	FLC-4-SS04-0006-022112 (1)	0"-6"	FINE BRN SAND, ORGANICS
0000	FLC-4-DUP01-022112	0"-6"	-DUP OF SS04-0006
0820	FLC-4-P01-0624-022112	6"-24"	FINE LT BROWN SAND - PETRO @ 3.5'
0825	FLC-4-P01-0204-022112 (2)	2'-4'	FINE LT BRN SAND - H_2O @ 4.0' moist
0000	FLC-4-DUP02-022112	2'-4'	-DUP OF P01-0204 | 0830 - FLC-4-RB01-022112
0840	FLC-4-P02-0624-022112	6"-24"	LT BRN FINE SAND
0845	FLC-4-P02-0204-022112	2'-4'	LT BRN MOIST FINE SAND - PETRO ODOR - H_2O = 4.0
0900	FLC-4-P03-0624-022112	6-24"	FINE LT BROWN SAND
0905	FLC-4-P03-0204-022112	2-4'	H_2O @ 3.5' - LT BROWN SAND - MOIST
0920	FLC-4-P04-0624-022112	6-24"	FINE LT BRN SAND
0925	FLC-4-P04-0204-022112	2-4'	H_2O @ 3.5' MOIST LT BROWN SAND / ROCKS
0930	FLC-4-RB02-022112	—	RINSATE
0950	FLC-4-P05-0624-022112 *	6-24"	FINE LT BROWN SAND
0955	FLC-4-P05-0204-022112	2-4'	BROWN COARSE SAND - H_2O @ 3.5' - MOIST
1015	FLC-4-P06-0624-022112	6-24"	FINE LT BRN SAND
1020	FLC-4-P06-0204-022112 (3)	2-4'	BROWN COARSE MOIST SAND - H_2O @ 3.5'
0000	FLC-4-DUP03-022112	2-4'	DUP OF P06-0204
1025	FLC-4-P07-0624-022112	6-24"	FINE LT BRN SAND
1030	FLC-4-P07-0204-022112	2-4'	COARSE BRN SAND - H_2O @ 4.0' - MOIST
1035	FLC-4-P08-0624-022112	6-24"	FINE LT BRN SAND
1040	FLC-4-P08-0204-022112	2-4'	COARSE BRN SAND - MOIST - H_2O @ 4.0'
1050	FLC-4-P09-0006-022112	0-6"	DK BRN FINE ORGANIC SAND
1055	FLC-4-P09-0624-022112	6-24"	COARSE SAND, LT BROWN, RED ROCKS
1100	FLC-4-P09-0204-022112	2-4'	LT BRN MID GRAIN SAND - H_2O @ 4.1' - ROCKS

K. Weichert

112G03309 SITE 4: PHASE II SOIL SAMPLING 2-21-17

1110 KW+DS BEGIN CLEANING UP
1125 KW+DS DEPART SITE FOR OFFICE- WILL RETURN STEAM WASHER AND GRAB LUNCH ONTHE WAY.
1300 KW+DS AT OFFICE
1530 KW RELINQUISHES SAMPLES TO FED EX FOR DELIVERY TO EMPIRICAL LABS

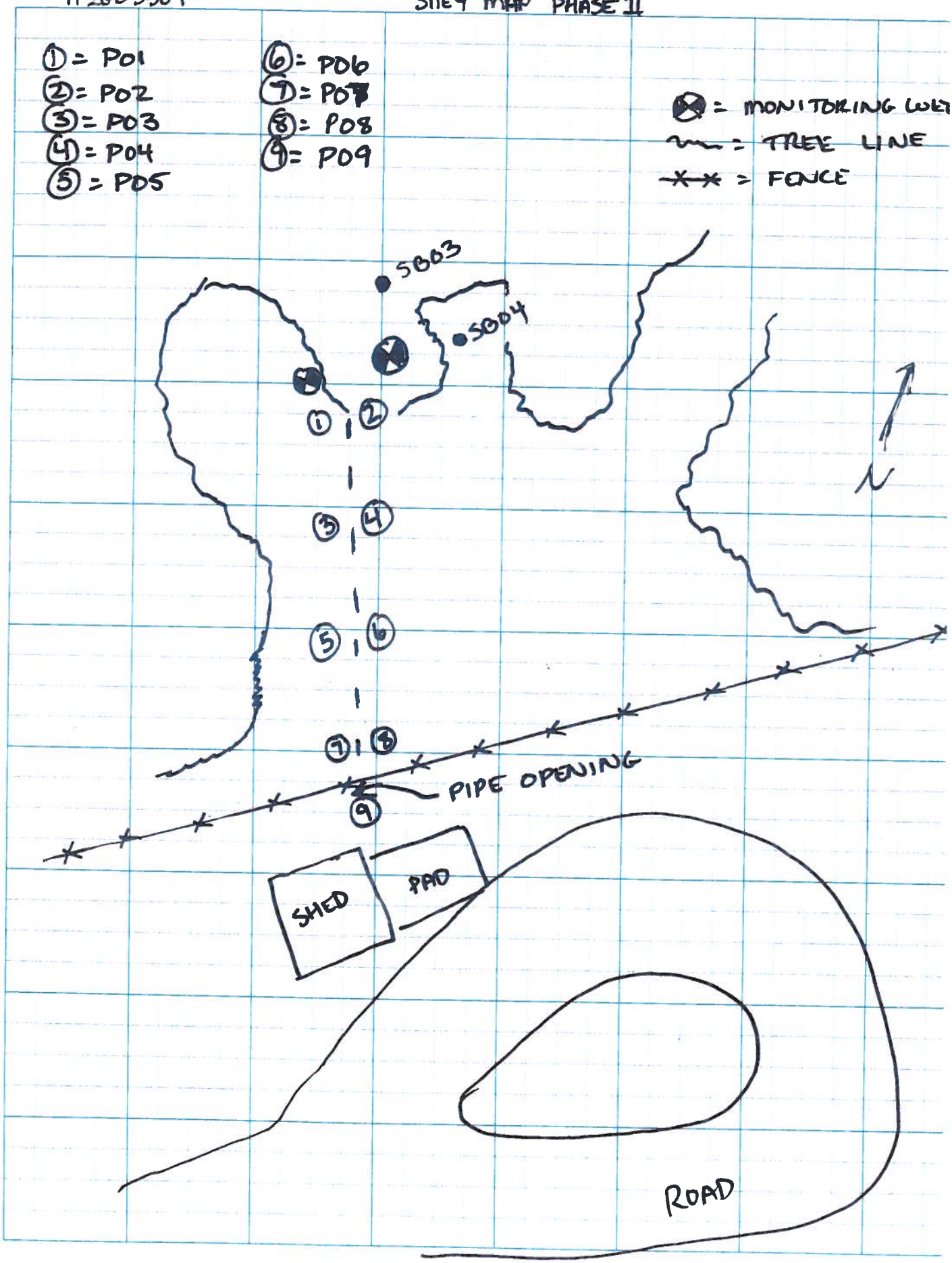
*= MS|MSD COLLECTED
1 DUP01 COLLECTED
2 DUP02 COLLECTED
3 DUP03 COLLECTED.

KPW

KWH

112603309

SITE 4 MAP PHASE II



112G03309 FLC - SITE 4+5 DPT 4-25-12

PERSONNEL: P. JOHNSON (PJ), K. WEICHERT (KW) - TETRA TECH
J. Legmon (JL), J. Ringehart (JR) - Probe Domain
TRUCK: RENTAL
PPE: LEVEL "D"
WEATHER: COOL, 60°, BREEZY, SUNNY
OBJ: COLLECT SOIL SAMPLES AND INSTALL MONITORING WELLS AT SITES 4+5

0650 KW + PJ AT OFFICE LOADING TRUCK
0745 PJ+ KW DEPART FOR SITE
0815 PJ+ KW MEET DRILLERS AND PROCEED TO SITE
0825 SITE H+S MEETING CONDUCTED.
0830 KW+JL meet drum/supplies delivery at Site 5 gate /drum storage area
0900 KW+JL+JR proceed to begin MW-NFD1 abandonment and MW-NFD1R installation at Site 4
RJ proceed to mark sample locations and MW Install locations at Site 5, then Site 4
1045 MW-NFD1 abandonment + MW-NFD1R install complete
Drill crew clean up, Depart Site 4
1100 Mobilize to MW-7 at Site 5
1115 Arrive MW-7 Site 5, set up on install of MW-7

MW Wells Installed

Site	Well ID	Total Depth	Screen Int.	Notes
4	MW-NFD1R	15' bgs	5'-15'	→ 5'-15' bgs
5	MW-7	14' bgs	~~5'-15'~~	Hand Clear to 4' bgs, Water Table @ 5.5' bgs
5	MW-6	15' bgs	5'-15'	" " " 4' bgs, " " @ 6' bgs
5	MW-8	15' bgs	5'-15'	Hand Clr 4' bgs, W.T. ~6' bgs, Petroleum in soils ±3.5' → SLIGHT 5' bgs

1530 Drill crew finish MW-8 install and pack up to depart FLC
1545 KW labels soil cutting drums
FLC-4-004
FLC-5-009, FLC-5-010
1600 Load trucks and depart site for TT office
1645 Arrive office + unload, done for day

112G03309 FLC Sites 4+5 DPT and Soil Sample 4/26/12

Personnel: TE - P. Johnson (PJ), K. Weichart (KW)
PD - J. Lapinon (JL), J. Reinhart (JR)
Truck: F150 rental, Jeep Cherokee (KW), GMC Dually (JL)
PPE: Level "D"
Weather: Sunny, clear, 65-85°F, light to moderate wind

0700 PJ+KW load truck and depart office for FLC
0730 PJ, KW, JL, JR arrive at FLC, enter security gate and prepare for start of Site 5 MW-1D 1) geology characterization 2) well install
0800 Setting up on MW-1D location (KW, JL, JR)
PJ prepares to begin soil sampling on Site 4 for PAH

PAH Soil Sampling Site 4

Time	ID	Description
0845	FLC-4-SB05-0006-042612	Light Brown sand with small orange rocks and pieces of clay, No Petro
0900	FLC-4-SB06-0006-042612	Brown Sand with small orange rocks, No Petro
0915	FLC-4-SB07-0006-042612	Brown Sand with " " " , No Petro
0930	FLC-4-SB08-0006-042612	" " " " " " , No Petro
0000	FLC-4-DUP01-042612	DUP of SB08 " " " " " " "
0945	FLC-4-SB09-0024-042612	Brown/Light brown sand + rocks, No Petro, MS/MSD
0955	FLC-4-SB09-0204-042612	Light Brown Sand + rocks, Water Table ~4', No Petro

1000 KW, JL, JR start drilling/install replacement well MW-NFD4R
1015 KW, JL, JR ~~finish installing MW-1D~~ installing MW-NFD4R

MW Wells Installed

Site	Well ID	Total Depth	Screen Int.	Notes
5	MW-1D	30'	25'-30'	See lithology description below
5	MW-NFD4R	15'	5'-15'	

MW-1D Geology/Lithology Description

Depth (ft)	Description
0-0.5	Light Brown fine Sand
0.5-2	Dark Weathered Petroleum/Sand mix
2-4	Dark Weathered Petroleum
4-5	Fine white Sand
5-6	Grey Moist Sand with small specks of weathered petroleum
6-8	Wood Root Material, wet
8-10	Fine Wet Brown/Grey Sand
10-11	Fine Light Brown silt/Sand, wet
11-15	Fine Brown Sand, wet
15-20	Fine Grey Silty Sand, wet
20-25	Medium Grain Wet Sands, minor silts
25-30	Medium Grain Grey Wet Sand

4/26/12

1030 PJ prepares to sample FLC-5-SBK8
~~[illegible]~~ EPH Soil Sampling Site 5

Time	ID	Description
1100	FLC-5-SBK8-0024-042612	Light gray Sand, No Petro
1105	FLC-5-SBK8-0020 3.5 -042612	Light gray Sand, Water Table @ 3.5 bgs, No Petro
~~1110~~	~~FLC-5-SBK8-04 042612RI~~	

1130 KW, JL, JR, PJ Start drilling/installing MW-1D
1230 Finish install MW-1D + packing up to break for lunch
1330 Lunch Break off-site
1430 Drillers decon Petro coated auger over containment tub

Drum # Well Development H_2O from: (see development logs for details)
FLC-5-10 MW-6, MW-7, MW-8, MW-NFD1R, MW-NFD4R
FLC-5-11 " " " " "

1500 Drillers grouting and finishing metal covers on remaining wells
1600 Load up and depart site for day / to office
1630 PJ ships Site 4 samples from FedEx on way to office
1715 Arrive JE office/done for day

112G03309 FLC Sites 4+5 DPT Sample 4-27-12

Monitoring Well Installation

Personnel: P. Johnson (PE), Jason Reinhart + Donnie (Probe Doraign)
Truck: 2006 F250
PPE: Level "D"
Weather: Sunny/Clear, 80's F, SW wind 10-15 mph

0730 Depart office for FLC 4+5
0815 Arrive Gate, Sunbelt delivers wrong mixer (mortar), Pass thru security
0830 Arrive on site 5, drillers begin installing well pads/bollards + development

1000 Begin DPT Macrocore Soil Sampling for EPA at SBE6

Time	ID	Description (W.T. = Water Table)
1040	FLC-5-SBE6-0024-042712	Brown Sand with organics and limestone rock No Petro
1045	FLC-5-SBE6-0204-042712	Petroleum soaked Sand/organics, light grey sand at W.T. @ 4' bgs
1110	FLC-5-SBE7-0024-042712	Grey Sand/organics/limerock, No Petro
1115	FLC-5-SBE7-0204-042712	Light grey Sand to W.T. @ 4' bgs, No Petro
1130	FLC-5-SBC6-0024-042712	Grey Sand/organics, No Petro
1135	FLC-5-SBC6-0204-042712	Dark Grey Sand to light grey sand @ W.T. @ 4' bgs No Petro
1150	FLC-5-SBD6-0024-042712	Grey Sand/organics/limestone, No Petro
1155	FLC-5-SBD6-0204-042712	Grey Petro Soaked Sand to W.T. @ 4' bgs
1210	FLC-5-SBD7-0024-042712	Light Brown/Tan Sand, No Petro
1215	FLC-5-SBD7-0204-042712	Dark Brown Petro Soaked Sand to W.T. @ 4' bgs
1230	FLC-5-SBC7-0024-042712	Grey/Dark Brown Petro Soaked sand
1235	FLC-5-SBC7-0204-042712	Grey/Brown Sand with Petro Soaked layer above W.T. @ 4' bgs
	~~FLC-5-DUP01-042712~~	
1235	FLC-5-DUP01-042712	Duplicate of SBC7-0204
1335	FLC-5-RB01-042712	2x1L amber bottles

1240 Finished Sampling, clean up, drillers installing pads/bollards and developing wells
1330 JR informs PJ that MW-8 will need to be re-installed because the PVC casing was cracked causing sand to fill in
1335 Drillers take rig to get water/etc in prep for re-install MW-8 then take lunch break
1345 Pete stays on-site to label and move soil drums to storage area outside gate on concrete pad
1335 Pete also collects Rinsate Blank after decon of augers
FLC-5-RB01-042712 2x1L amber bottles
1435 Drillers return from lunch to prep/start re-installing MW-8

712603309 FLC Sites 4+5 DPT Sampling (cont) 4-27-12

1535 Drillers finish installing MW-8 only to find that it is damaged again and will not produce without filling with sand

1545 Begin cleaning up site 4+5 to leave for day
Close and label drill cutting and development H_2O drums

Drums		
FLC-5-9	Soil	
10	Water	40 gal
11	Water	40 gal
12	Soil	
FLC-4-7(?)	Soil	
FLC-5-7	Soil	
FLC-5-8	Soil	

1625 JR informs PJ they will return next Wed to finish installing/developing

1630 Depart FLC for Office

1715 Arrive office and unload truck/equipment/soil+rinsate samples into sample fridge at office

*Jeff Krone to ship samples to Katadhin Labs on Monday

Certificate of Disposal

This certificate is to verify that the wastes specified on the following manifest numbers have been properly managed in accordance with all local, state and federal regulations.

Facility: EQ Florida, Inc.
7202 East Eighth Ave.
Tampa, FL 33619

Manifest: 058255
NAVY FUEL DEPOT SITES 4 AND 5
FLC ESQ G

Inbound Container	Manifest Page	Manifest Line	Inbound Weight	Inbound Approval	Destination	Treatment	Mgmt Code	Outbound Manifest	Outbound Page	Outbound Line	Ship/ Disposal Date
176315-1-1	1	1	215.00	NFD 001	Facility - CTL	NLiq-Solidify-Sub D	LIW	531849	1	1	4/30/2012
176315-1-2	1	1	346.00	NFD 001	Facility - CTL	NLiq-Solidify-Sub D	LIW	531849	1	1	4/30/2012
176315-1-3	1	1	451.00	NFD 001	Facility - CTL	NLiq-Solidify-Sub D	LIW	531849	1	1	4/30/2012
176315-1-4	1	1	280.00	NFD 001	Process - PIT	NLiq-Solidify-Sub D	LIW				4/24/2012
176315-2-1	1	2	507.00	NFD 002	Facility - CTL	NSol-Solidify-Sub D	NONE	531849	1	1	4/30/2012
176315-2-2	1	2	502.00	NFD 002	Facility - CTL	NSol-Solidify-Sub D	NONE	531849	1	1	4/30/2012
176315-2-3	1	2	392.00	NFD 002	Facility - CTL	NSol-Solidify-Sub D	NONE	531849	1	1	4/30/2012
176315-2-4	1	2	448.00	NFD 002	Process - PIT	NSol-Solidify-Sub D	NONE				4/24/2012
176315-2-5	1	2	509.00	NFD 002	Facility - CTL	NSol-Solidify-Sub D	NONE	531849	1	1	4/30/2012
176315-2-6	1	2	527.00	NFD 002	Process - PIT	NSol-Solidify-Sub D	NONE				4/24/2012
176315-2-7	1	2	492.00	NFD 002	Process - PIT	NSol-Solidify-Sub D	NONE				4/24/2012

I certify that the above information is true and correct to the best of my knowledge.

Authorized Signature: _____

FLC Site 4 + 5

112603309 US Navy MPT GW Sampling 5-11-2012

Personnel: Pete Johnson (PJ) (FOL) + Jeff Krone (JK)
Truck: Dodge 1500 (Rental)
PPE: Level 'D'
Weather: Sunny, light SE wind, 85-90°F

0800 PJ + JK load truck and depart office for FLC site
Truck has low tire pressure, so stop fill up + get drinks
0900 Arrive FLC check in and drive into site 5
0915 Equipment calibration (see cal log sheet)
1000 JK begin sampling Site 4 for PAH
PJ drive to FAM for drum to contain purge water
1045 PJ back + begin sampling Site 5 for TRPH

Time	Sample ID	Notes
1106	FLC-4-MW-NFD 1R-20120511	
1210	FLC-3-MW-NFD 4R-20120511	Turbidity would not come down <2
1234	FLC-5-MW-6-20120511	
1346	FLC-5-MW-7-20120511	Turbidity would not come down < 20
1350	FLC-5-MW-8-20120511	" " " " " "
1433	FLC-5-MW-1D-20120511	" " " " " "
~~1450~~	~~FLC-5-MW-2-20120511~~	~~" " " " " "~~
1455	FLC-5-RB01-20120511	

1500 Back up + label drum FLC-5-016 20 gal Purge H2O from above wells + addn'l soils FLC-5-013, 014, 015 from drillers last
1530 Depart Site 5 and check out with FLC security
1600 Arrive Office + unload truck + store samples for Monday shipping, per OK by Empirical Lab staff

PJ

Certificate of Disposal

This certificate is to verify that the wastes specified on the following manifest numbers have been properly managed in accordance with all local, state and federal regulations.

Facility: EQ Florida, Inc.
7202 East Eighth Ave.
Tampa, FL 33619

Manifest: 058452
NAVY FUEL DEPOT SITES 4 AND 5
FLC ESQ G

Inbound Container	Manifest Page	Manifest Line	Inbound Weight	Inbound Approval	Destination	Treatment	Mgmt Code	Outbound Manifest	Outbound Page	Outbound Line	Ship/ Disposal Date
179236-1-1	1	1	366.00	NFD 001	Process - PIT	NLiq-Solidify-Sub D	LIW				6/25/2012
179236-1-2	1	1	399.00	NFD 001	Process - PIT	NLiq-Solidify-Sub D	LIW				6/25/2012
179236-2-1	1	2	562.00	NFD 002	Process - PIT	NSol-Solidify-Sub D	NONE				6/25/2012
179236-2-2	1	2	714.00	NFD 002	Process - PIT	NSol-Solidify-Sub D	NONE				6/25/2012
179236-2-3	1	2	623.00	NFD 002	Process - PIT	NSol-Solidify-Sub D	NONE				6/25/2012
179236-2-4	1	2	420.00	NFD 002	Process - PIT	NSol-Solidify-Sub D	NONE				6/25/2012
179236-2-5	1	2	573.00	NFD 002	Process - PIT	NSol-Solidify-Sub D	NONE				6/25/2012
179236-2-6	1	2	454.00	NFD 002	Process - PIT	NSol-Solidify-Sub D	NONE				6/25/2012
179236-2-7	1	2	283.00	NFD 002	Process - PIT	NSol-Solidify-Sub D	NONE				6/25/2012
179236-3-1	1	3	165.00	NFD 001	Process - PIT	NLiq-Solidify-Sub D	LIW				6/25/2012

I certify that the above information is true and correct to the best of my knowledge.

Authorized Signature: _____

APPENDIX D

FULL APPENDIX ANALYTICAL TABLES

Table D-1
Soil Analytical Results

Site Assessment Report - Site 4
Fleet Logistics Center Jacksonville - Navy Fuel Depot
Jacksonville, Florida

LOCATION	FLC-4-SB01			FLC-4-SB02			FLC-4-P01				FLC-4-P02		FLC-4-P03
SAMPLE IDENTIFICATION	FLC-4-SS01-0006-092211	FLC-4-SS01-0624-092211	FLC-4-SB01-0204-092211	FLC-4-SS02-0006-092211	FLC-4-SS02-0624-092211	FLC-4-SB02-0204-092211	FLC-4-PO1-0624-022112	FLC-4-PO1-0204-022112	FLC-4-PO1-0204-022112-AVG	FLC-4-PO1-0204-022112-D	FLC-4-PO2-0624-022112	FLC-4-PO2-0204-022112	FLC-4-PO3-0624-022112
SAMPLE DATE	20110922	20110922	20110922	20110922	20110922	20110922	20120221	20120221	20120221	20120221	20120221	20120221	20120221
TOP DEPTH	0	0.5	2	0	0.5	2	0.5	2	2	2	0.5	2	0.5
BOTTOM DEPTH	0.5	2	4	0.5	2	4	2	4	4	4	2	4	2
METALS (mg/kg)													
ANTIMONY	1.03 U	1.05 U	1.05 U	1.01 U	0.944 U	1.11 U	NA	NA	NA	NA	NA	NA	NA
ARSENIC	0.622	0.631 U	0.629 U	1.38	0.566 U	0.664 U	NA	NA	NA	NA	NA	NA	NA
BARIUM	4.53 J	11.3	2.72 J	17.5	5.68 J	7.38 J	NA	NA	NA	NA	NA	NA	NA
BERYLLIUM	0.206 U	0.21 U	0.21 U	0.343 J	0.189 U	0.221 U	NA	NA	NA	NA	NA	NA	NA
CADMIUM	0.206 U	0.21 U	0.21 U	0.201 U	0.189 U	0.221 U	NA	NA	NA	NA	NA	NA	NA
CHROMIUM	1.73	1.82	1.19	7.09	1.76	2.33	NA	NA	NA	NA	NA	NA	NA
COPPER	1.07 J	0.931 J	0.839 U	5.89	0.755 U	0.885 U	NA	NA	NA	NA	NA	NA	NA
LEAD	3.79	1.98	0.738	15.9	2.67	2.78	NA	NA	NA	NA	NA	NA	NA
MERCURY	0.0117 U	0.014 U	0.0141 U	0.0163	0.0112	0.0109 U	NA	NA	NA	NA	NA	NA	NA
NICKEL	1.57 J	1.5 J	0.629 U	6.63	1.54 J	1.71 J	NA	NA	NA	NA	NA	NA	NA
SELENIUM	0.619 U	0.631 U	0.629 U	0.604 U	0.566 U	0.664 U	NA	NA	NA	NA	NA	NA	NA
SILVER	0.206 U	0.21 U	0.21 U	0.201 U	0.189 U	0.221 U	NA	NA	NA	NA	NA	NA	NA
THALLIUM	0.619 U	0.631 U	0.629 U	0.604 U	0.566 U	0.664 U	NA	NA	NA	NA	NA	NA	NA
TIN	3.5 U	3.47 U	3.44 U	3.75 U	3.18 U	3.63 U	NA	NA	NA	NA	NA	NA	NA
ZINC	5.83	4.66	1.44 J	14.4	3.58 J	4.13 J	NA	NA	NA	NA	NA	NA	NA
PCBS (mg/kg)													
AROCLOR-1016	0.00418 U	0.0042 U	0.00447 U	0.00443 U	0.0042 U	0.00424 U	NA	NA	NA	NA	NA	NA	NA
AROCLOR-1221	0.00418 U	0.0042 U	0.00447 U	0.00443 U	0.0042 U	0.00424 U	NA	NA	NA	NA	NA	NA	NA
AROCLOR-1232	0.00418 U	0.0042 U	0.00447 U	0.00443 U	0.0042 U	0.00424 U	NA	NA	NA	NA	NA	NA	NA
AROCLOR-1242	0.00418 U	0.0042 U	0.00447 U	0.00443 U	0.0042 U	0.00424 U	NA	NA	NA	NA	NA	NA	NA
AROCLOR-1248	0.00418 U	0.0042 U	0.00447 U	0.00443 U	0.0042 U	0.00424 U	NA	NA	NA	NA	NA	NA	NA
AROCLOR-1254	0.00418 U	0.0042 U	0.00447 U	0.00443 U	0.0042 U	0.00424 U	NA	NA	NA	NA	NA	NA	NA
AROCLOR-1260	0.00418 U	0.0042 U	0.00447 U	0.00443 U	0.0042 U	0.00424 U	NA	NA	NA	NA	NA	NA	NA
PETROLEUM HYDROCARBONS (mg/kg)													
TPH (C08-C40)	171 J	114 U	12.3 U	236 J	148 J	117 U	NA	NA	NA	NA	NA	NA	NA
POLYCYCLIC AROMATIC HYDROCARBONS (mg/kg)													
1-METHYLNAPHTHALENE	0.00171 U	0.00171 U	0.00187 U	0.0274 J	0.00164 U	0.017 U	0.0021 U	0.0202 U	0.0198 U	0.0194 U	0.00164 U	0.0972 U	0.00169 U
2-METHYLNAPHTHALENE	0.00171 U	0.00171 U	0.00187 U	0.0409 J	0.00223 J	0.017 U	0.0021 U	0.0202 U	0.0198 U	0.0194 U	0.00164 U	0.0972 U	0.00169 U
ACENAPHTHENE	0.00171 U	0.00171 U	0.00187 U	0.0177 U	0.00164 U	0.017 U	0.0021 U	0.0202 U	0.0198 U	0.0194 U	0.00164 U	0.0972 U	0.00169 U
ACENAPHTHYLENE	0.00171 U	0.00171 U	0.00187 U	0.161	0.00624 J	0.017 U	0.0021 U	0.0202 U	0.0198 U	0.0194 U	0.00354 J	0.0972 U	0.00169 U
ANTHRACENE	0.00171 U	0.00171 U	0.00187 U	0.0405 J	0.00171 J	0.017 U	0.0021 U	0.0202 U	0.0198 U	0.0194 U	0.00164 U	0.0972 U	0.00169 U
BAP EQUIVALENT-HALFND	0.00651	0.010759	0.00187 U	0.909733	0.04661	0.033276	0.0021 U	0.026226	0.046732	0.067237	0.011503	0.397678	0.003327
BAP EQUIVALENT-POS	0.005562	0.009896	0.00187 U	0.909733	0.04661	0.023076	0.0021 U	0.003905	0.029218	0.05453	0.010683	0.33931	0.002222
BENZO(A)ANTHRACENE	0.00171 U	0.0045 J	0.00187 U	0.338	0.0154	0.017 U	0.0021 U	0.0202 U	0.0198 U	0.0194 U	0.00554 J	0.0972 U	0.00169 U
BENZO(A)PYRENE	0.00438 J	0.00749	0.00187 U	0.613	0.0305	0.0202 J	0.0021 U	0.0202 U	0.03225	0.0544 J	0.00842	0.32 J	0.00222 J
BENZO(B)FLUORANTHENE	0.00662 J	0.0113	0.00187 U	0.812	0.0384	0.0268 J	0.0021 U	0.0202 U	0.0198 U	0.0194 U	0.00813	0.181 J	0.00169 U

Table D-1
Soil Analytical Results

Site Assessment Report - Site 4
Fleet Logistics Center Jacksonville - Navy Fuel Depot
Jacksonville, Florida

LOCATION	FLC-4-SB01			FLC-4-SB02			FLC-4-P01				FLC-4-P02		FLC-4-P03
SAMPLE IDENTIFICATION	FLC-4-SS01-0006-092211	FLC-4-SS01-0624-092211	FLC-4-SB01-0204-092211	FLC-4-SS02-0006-092211	FLC-4-SS02-0624-092211	FLC-4-SB02-0204-092211	FLC-4-PO1-0624-022112	FLC-4-PO1-0204-022112	FLC-4-PO1-0204-022112-AVG	FLC-4-PO1-0204-022112-D	FLC-4-PO2-0624-022112	FLC-4-PO2-0204-022112	FLC-4-PO3-0624-022112
SAMPLE DATE	20110922	20110922	20110922	20110922	20110922	20110922	20120221	20120221	20120221	20120221	20120221	20120221	20120221
TOP DEPTH	0	0.5	2	0	0.5	2	0.5	2	2	2	0.5	2	0.5
BOTTOM DEPTH	0.5	2	4	0.5	2	4	2	4	4	4	2	4	2
POLYCYCLIC AROMATIC HYDROCARBONS (mg/kg)													
BENZO(G,H,I)PERYLENE	0.00171 U	0.0161	0.00187 U	0.551	0.0333	0.017 U	0.0021 U	0.111	0.08345	0.0559 J	0.0106	0.234 J	0.00169 U
BENZO(K)FLUORANTHENE	0.00171 U	0.00171 U	0.00187 U	0.28	0.0168	0.0176 J	0.0021 U	0.0202 U	0.0198 U	0.0194 U	0.0097	0.121 J	0.00169 U
CHRYSENE	0.00171 U	0.00574 J	0.00187 U	0.433	0.0225	0.0204 J	0.0021 U	0.215	0.1725	0.13	0.0151	0.0972 U	0.00206 J
DIBENZO(A,H)ANTHRACENE	0.00171 U	0.00171 U	0.00187 U	0.127	0.0084	0.017 U	0.0021 U	0.0202 U	0.0198 U	0.0194 U	0.00164 U	0.0972 U	0.00169 U
FLUORANTHENE	0.00371 J	0.00488 J	0.00187 U	0.398	0.0176	0.017 U	0.0021 U	0.104	0.093	0.082	0.00992	0.78	0.00169 U
FLUORENE	0.00171 U	0.00171 U	0.00187 U	0.0177 U	0.00164 U	0.017 U	0.0021 U	0.0202 U	0.0198 U	0.0194 U	0.00164 U	0.0972 U	0.00169 U
INDENO(1,2,3-CD)PYRENE	0.0052 J	0.00821	0.00187 U	0.515	0.0214	0.017 U	0.0021 U	0.0369 J	0.0233	0.0194 U	0.00784	0.0972 U	0.00169 U
NAPHTHALENE	0.00171 U	0.00171 U	0.00187 U	0.0479 J	0.00319 J	0.017 U	0.0021 U	0.0263 J	0.018	0.0194 U	0.00164 U	0.0972 U	0.00169 U
PHENANTHRENE	0.00258 J	0.0023 J	0.00187 U	0.098	0.00624 J	0.017 U	0.0021 U	0.0202 U	0.0198 U	0.0194 U	0.00419 J	0.0972 U	0.00169 U
PYRENE	0.00468 J	0.00681 J	0.00187 U	0.573	0.0287	0.0223 J	0.0021 U	0.521 J	0.402	0.283 J	0.0182	2.71	0.00196 J
SEMIVOLATILES (mg/kg)													
1,1-BIPHENYL	0.0851 U	0.0855 U	0.0934 U	0.442 U	0.0817 U	0.0846 U	NA	NA	NA	NA	NA	NA	NA
1,2,4,5-TETRACHLOROBENZENE	0.0851 U	0.0855 U	0.0934 U	0.442 U	0.0817 U	0.0846 U	NA	NA	NA	NA	NA	NA	NA
2,2'-OXYBIS(1-CHLOROPROPANE)	0.0851 U	0.0855 U	0.0934 U	0.442 U	0.0817 U	0.0846 U	NA	NA	NA	NA	NA	NA	NA
2,3,4,6-TETRACHLOROPHENOL	0.0851 U	0.0855 U	0.0934 U	0.442 U	0.0817 U	0.0846 U	NA	NA	NA	NA	NA	NA	NA
2,4,5-TRICHLOROPHENOL	0.0851 U	0.0855 U	0.0934 U	0.442 U	0.0817 U	0.0846 U	NA	NA	NA	NA	NA	NA	NA
2,4,6-TRICHLOROPHENOL	0.0851 U	0.0855 U	0.0934 U	0.442 U	0.0817 U	0.0846 U	NA	NA	NA	NA	NA	NA	NA
2,4-DICHLOROPHENOL	0.0851 U	0.0855 U	0.0934 U	0.442 U	0.0817 U	0.0846 U	NA	NA	NA	NA	NA	NA	NA
2,4-DIMETHYLPHENOL	0.34 U	0.342 U	0.374 U	1.77 U	0.326 U	0.338 U	NA	NA	NA	NA	NA	NA	NA
2,4-DINITROPHENOL	0.851 U	0.855 U	0.934 U	4.42 U	0.817 U	0.846 U	NA	NA	NA	NA	NA	NA	NA
2,4-DINITROTOLUENE	0.0851 U	0.0855 U	0.0934 U	0.442 U	0.0817 U	0.0846 U	NA	NA	NA	NA	NA	NA	NA
2,6-DINITROTOLUENE	0.0851 U	0.0855 U	0.0934 U	0.442 U	0.0817 U	0.0846 U	NA	NA	NA	NA	NA	NA	NA
2-CHLORONAPHTHALENE	0.0851 U	0.0855 U	0.0934 U	0.442 U	0.0817 U	0.0846 U	NA	NA	NA	NA	NA	NA	NA
2-CHLOROPHENOL	0.0851 U	0.0855 U	0.0934 U	0.442 U	0.0817 U	0.0846 U	NA	NA	NA	NA	NA	NA	NA
2-METHYLPHENOL	0.0851 U	0.0855 U	0.0934 U	0.442 U	0.0817 U	0.0846 U	NA	NA	NA	NA	NA	NA	NA
2-NITROANILINE	0.34 U	0.342 U	0.374 U	1.77 U	0.326 U	0.338 U	NA	NA	NA	NA	NA	NA	NA
2-NITROPHENOL	0.0851 U	0.0855 U	0.0934 U	0.442 U	0.0817 U	0.0846 U	NA	NA	NA	NA	NA	NA	NA
3,3'-DICHLOROBENZIDINE	0.0851 U	0.0855 U	0.0934 U	0.442 U	0.0817 U	0.0846 U	NA	NA	NA	NA	NA	NA	NA
3-NITROANILINE	0.34 U	0.342 U	0.374 U	1.77 U	0.326 U	0.338 U	NA	NA	NA	NA	NA	NA	NA
4,6-DINITRO-2-METHYLPHENOL	0.851 U	0.855 U	0.934 U	4.42 U	0.817 U	0.846 U	NA	NA	NA	NA	NA	NA	NA
4-BROMOPHENYL PHENYL ETHER	0.0851 U	0.0855 U	0.0934 U	0.442 U	0.0817 U	0.0846 U	NA	NA	NA	NA	NA	NA	NA
4-CHLORO-3-METHYLPHENOL	0.0851 U	0.0855 U	0.0934 U	0.442 U	0.0817 U	0.0846 U	NA	NA	NA	NA	NA	NA	NA
4-CHLOROANILINE	0.0851 U	0.0855 U	0.0934 U	0.442 U	0.0817 U	0.0846 U	NA	NA	NA	NA	NA	NA	NA
4-CHLOROPHENYL PHENYL ETHER	0.0851 U	0.0855 U	0.0934 U	0.442 U	0.0817 U	0.0846 U	NA	NA	NA	NA	NA	NA	NA
4-METHYLPHENOL	0.0851 U	0.0855 U	0.0934 U	0.442 U	0.0817 U	0.0846 U	NA	NA	NA	NA	NA	NA	NA
4-NITROANILINE	0.34 U	0.342 U	0.374 U	1.77 U	0.326 U	0.338 U	NA	NA	NA	NA	NA	NA	NA

Table D-1
Soil Analytical Results

Site Assessment Report - Site 4
Fleet Logistics Center Jacksonville - Navy Fuel Depot
Jacksonville, Florida

LOCATION	FLC-4-SB01			FLC-4-SB02			FLC-4-P01				FLC-4-P02		FLC-4-P03
SAMPLE IDENTIFICATION	FLC-4-SS01-0006-092211	FLC-4-SS01-0624-092211	FLC-4-SB01-0204-092211	FLC-4-SS02-0006-092211	FLC-4-SS02-0624-092211	FLC-4-SB02-0204-092211	FLC-4-PO1-0624-022112	FLC-4-PO1-0204-022112	FLC-4-PO1-0204-022112-AVG	FLC-4-PO1-0204-022112-D	FLC-4-PO2-0624-022112	FLC-4-PO2-0204-022112	FLC-4-PO3-0624-022112
SAMPLE DATE	20110922	20110922	20110922	20110922	20110922	20110922	20120221	20120221	20120221	20120221	20120221	20120221	20120221
TOP DEPTH	0	0.5	2	0	0.5	2	0.5	2	2	2	0.5	2	0.5
BOTTOM DEPTH	0.5	2	4	0.5	2	4	2	4	4	4	2	4	2
SEMIVOLATILES (mg/kg)													
4-NITROPHENOL	0.34 U	0.342 U	0.374 U	1.77 U	0.326 U	0.338 U	NA	NA	NA	NA	NA	NA	NA
ACETOPHENONE	0.0851 U	0.0855 U	0.0934 U	0.442 U	0.0817 U	0.0846 U	NA	NA	NA	NA	NA	NA	NA
ATRAZINE	0.0851 U	0.0855 U	0.0934 U	0.442 U	0.0817 U	0.0846 U	NA	NA	NA	NA	NA	NA	NA
BENZALDEHYDE	0.0851 U	0.0855 U	0.0934 U	0.442 U	0.0817 U	0.0846 U	NA	NA	NA	NA	NA	NA	NA
BIS(2-CHLOROETHOXY)METHANE	0.0851 U	0.0855 U	0.0934 U	0.442 U	0.0817 U	0.0846 U	NA	NA	NA	NA	NA	NA	NA
BIS(2-CHLOROETHYL)ETHER	0.0851 U	0.0855 U	0.0934 U	0.442 U	0.0817 U	0.0846 U	NA	NA	NA	NA	NA	NA	NA
BIS(2-ETHYLHEXYL)PHTHALATE	0.0851 U	0.0855 U	0.0934 U	0.442 U	0.0817 U	0.0846 U	NA	NA	NA	NA	NA	NA	NA
BUTYL BENZYL PHTHALATE	0.0851 U	0.0855 U	0.0934 U	0.442 U	0.0817 U	0.0846 U	NA	NA	NA	NA	NA	NA	NA
CAPROLACTAM	0.0851 U	0.0855 U	0.0934 U	0.442 U	0.0817 U	0.0846 U	NA	NA	NA	NA	NA	NA	NA
CARBAZOLE	0.0851 U	0.0855 U	0.0934 U	0.442 U	0.0817 U	0.0846 U	NA	NA	NA	NA	NA	NA	NA
DIBENZOFURAN	0.0851 U	0.0855 U	0.0934 U	0.442 U	0.0817 U	0.0846 U	NA	NA	NA	NA	NA	NA	NA
DIETHYL PHTHALATE	0.0851 U	0.0855 U	0.0934 U	0.442 U	0.0817 U	0.0846 U	NA	NA	NA	NA	NA	NA	NA
DIMETHYL PHTHALATE	0.0851 U	0.0855 U	0.0934 U	0.442 U	0.0817 U	0.0846 U	NA	NA	NA	NA	NA	NA	NA
DI-N-BUTYL PHTHALATE	0.0851 U	0.0855 U	0.0934 U	0.442 U	0.0817 U	0.0846 U	NA	NA	NA	NA	NA	NA	NA
DI-N-OCTYL PHTHALATE	0.0851 U	0.0855 U	0.0934 U	0.442 U	0.0817 U	0.0846 U	NA	NA	NA	NA	NA	NA	NA
HEXACHLOROBENZENE	0.0851 U	0.0855 U	0.0934 U	0.442 U	0.0817 U	0.0846 U	NA	NA	NA	NA	NA	NA	NA
HEXACHLOROCYCLOPENTADIENE	0.0851 U	0.0855 U	0.0934 U	0.442 U	0.0817 U	0.0846 U	NA	NA	NA	NA	NA	NA	NA
HEXACHLOROETHANE	0.0851 U	0.0855 U	0.0934 U	0.442 U	0.0817 U	0.0846 U	NA	NA	NA	NA	NA	NA	NA
ISOPHORONE	0.0851 U	0.0855 U	0.0934 U	0.442 U	0.0817 U	0.0846 U	NA	NA	NA	NA	NA	NA	NA
NITROBENZENE	0.0851 U	0.0855 U	0.0934 U	0.442 U	0.0817 U	0.0846 U	NA	NA	NA	NA	NA	NA	NA
N-NITROSO-DI-N-PROPYLAMINE	0.0851 U	0.0855 U	0.0934 U	0.442 U	0.0817 U	0.0846 U	NA	NA	NA	NA	NA	NA	NA
N-NITROSODIPHENYLAMINE	0.0851 U	0.0855 U	0.0934 U	0.442 U	0.0817 U	0.0846 U	NA	NA	NA	NA	NA	NA	NA
PHENOL	0.0851 U	0.0855 U	0.0934 U	0.442 U	0.0817 U	0.0846 U	NA	NA	NA	NA	NA	NA	NA
VOLATILES (mg/kg)													
1,1,1,2-TETRACHLOROETHANE	0.00133 U	0.00135 U	0.00145 U	0.00119 U	0.00137 U	0.00134 U	NA	NA	NA	NA	NA	NA	NA
1,1,1-TRICHLOROETHANE	0.00133 U	0.00135 U	0.00145 U	0.00119 U	0.00137 U	0.00134 U	NA	NA	NA	NA	NA	NA	NA
1,1,2,2-TETRACHLOROETHANE	0.00133 U	0.00135 U	0.00145 U	0.00119 U	0.00137 U	0.00134 U	NA	NA	NA	NA	NA	NA	NA
1,1,2-TRICHLOROETHANE	0.00133 U	0.00135 U	0.00145 U	0.00119 U	0.00137 U	0.00134 U	NA	NA	NA	NA	NA	NA	NA
1,1,2-TRICHLOROTRIFLUOROETHANE	0.00266 U	0.0027 U	0.0029 U	0.00238 U	0.00275 U	0.00269 U	NA	NA	NA	NA	NA	NA	NA
1,1-DICHLOROETHANE	0.00133 U	0.00135 U	0.00145 U	0.00119 U	0.00137 U	0.00134 U	NA	NA	NA	NA	NA	NA	NA
1,1-DICHLOROETHENE	0.00133 U	0.00135 U	0.00145 U	0.00119 U	0.00137 U	0.00134 U	NA	NA	NA	NA	NA	NA	NA
1,2,3-TRICHLOROBENZENE	0.00133 U	0.00135 U	0.00145 U	0.00119 U	0.00137 U	0.00134 U	NA	NA	NA	NA	NA	NA	NA
1,2,4-TRICHLOROBENZENE	0.00133 U	0.00135 U	0.00145 U	0.00119 U	0.00137 U	0.00134 U	NA	NA	NA	NA	NA	NA	NA
1,2-DIBROMO-3-CHLOROPROPANE	0.00266 U	0.0027 U	0.0029 U	0.00238 U	0.00275 U	0.00269 U	NA	NA	NA	NA	NA	NA	NA
1,2-DIBROMOETHANE	0.00133 U	0.00135 U	0.00145 U	0.00119 U	0.00137 U	0.00134 U	NA	NA	NA	NA	NA	NA	NA
1,2-DICHLOROBENZENE	0.00133 U	0.00135 U	0.00145 U	0.00119 U	0.00137 U	0.00134 U	NA	NA	NA	NA	NA	NA	NA

Table D-1
Soil Analytical Results

Site Assessment Report - Site 4
Fleet Logistics Center Jacksonville - Navy Fuel Depot
Jacksonville, Florida

LOCATION	FLC-4-SB01			FLC-4-SB02			FLC-4-P01				FLC-4-P02		FLC-4-P03
SAMPLE IDENTIFICATION	FLC-4-SS01-0006-092211	FLC-4-SS01-0624-092211	FLC-4-SB01-0204-092211	FLC-4-SS02-0006-092211	FLC-4-SS02-0624-092211	FLC-4-SB02-0204-092211	FLC-4-PO1-0624-022112	FLC-4-PO1-0204-022112	FLC-4-PO1-0204-022112-AVG	FLC-4-PO1-0204-022112-D	FLC-4-PO2-0624-022112	FLC-4-PO2-0204-022112	FLC-4-PO3-0624-022112
SAMPLE DATE	20110922	20110922	20110922	20110922	20110922	20110922	20120221	20120221	20120221	20120221	20120221	20120221	20120221
TOP DEPTH	0	0.5	2	0	0.5	2	0.5	2	2	2	0.5	2	0.5
BOTTOM DEPTH	0.5	2	4	0.5	2	4	2	4	4	4	2	4	2
VOLATILES (mg/kg)													
1,2-DICHLOROETHANE	0.00133 U	0.00135 U	0.00145 U	0.00119 U	0.00137 U	0.00134 U	NA	NA	NA	NA	NA	NA	NA
1,2-DICHLOROPROPANE	0.00133 U	0.00135 U	0.00145 U	0.00119 U	0.00137 U	0.00134 U	NA	NA	NA	NA	NA	NA	NA
1,3-DICHLOROBENZENE	0.00133 U	0.00135 U	0.00145 U	0.00119 U	0.00137 U	0.00134 U	NA	NA	NA	NA	NA	NA	NA
1,4-DICHLOROBENZENE	0.00133 U	0.00135 U	0.00145 U	0.00119 U	0.00137 U	0.00134 U	NA	NA	NA	NA	NA	NA	NA
1,4-DIOXANE	0.0532 U	0.054 U	0.0581 U	0.0476 U	0.0549 U	0.0538 U	NA	NA	NA	NA	NA	NA	NA
2-BUTANONE	0.00354 J	0.00687 J	0.00628 J	0.00858 J	0.0115	0.00898 J	NA	NA	NA	NA	NA	NA	NA
2-HEXANONE	0.00266 U	0.0027 U	0.0029 U	0.00387 U	0.00275 U	0.00269 U	NA	NA	NA	NA	NA	NA	NA
4-METHYL-2-PENTANONE	0.00266 U	0.0027 U	0.0029 U	0.00238 U	0.00275 U	0.00269 U	NA	NA	NA	NA	NA	NA	NA
ACETONE	0.0133 U	0.0507 J	0.0145 U	0.162	0.0826	0.0762	NA	NA	NA	NA	NA	NA	NA
BENZENE	0.00175 J	0.00185 J	0.00175 J	0.00119 U	0.00174 J	0.00201 J	NA	NA	NA	NA	NA	NA	NA
BROMOCHLOROMETHANE	0.00133 U	0.00135 U	0.00145 U	0.00119 U	0.00137 U	0.00134 U	NA	NA	NA	NA	NA	NA	NA
BROMODICHLOROMETHANE	0.00133 U	0.00135 U	0.00145 U	0.00119 U	0.00137 U	0.00134 U	NA	NA	NA	NA	NA	NA	NA
BROMOFORM	0.00133 U	0.00135 U	0.00145 U	0.00119 U	0.00137 U	0.00134 U	NA	NA	NA	NA	NA	NA	NA
BROMOMETHANE	0.00266 U	0.0027 U	0.0029 U	0.00238 U	0.00275 U	0.00269 U	NA	NA	NA	NA	NA	NA	NA
CARBON DISULFIDE	0.00133 U	0.00135 U	0.00145 U	0.00119 U	0.00137 U	0.00134 U	NA	NA	NA	NA	NA	NA	NA
CARBON TETRACHLORIDE	0.00133 U	0.00135 U	0.00145 U	0.00119 U	0.00137 U	0.00134 U	NA	NA	NA	NA	NA	NA	NA
CHLOROBENZENE	0.00133 U	0.00135 U	0.00145 U	0.00119 U	0.00137 U	0.00134 U	NA	NA	NA	NA	NA	NA	NA
CHLORODIBROMOMETHANE	0.00133 U	0.00135 U	0.00145 U	0.00119 U	0.00137 U	0.00134 U	NA	NA	NA	NA	NA	NA	NA
CHLOROETHANE	0.00266 U	0.0027 U	0.0029 U	0.00238 U	0.00275 U	0.00269 U	NA	NA	NA	NA	NA	NA	NA
CHLOROFORM	0.00133 U	0.00135 U	0.00145 U	0.00119 U	0.00137 U	0.00134 U	NA	NA	NA	NA	NA	NA	NA
CHLOROMETHANE	0.00266 U	0.0027 U	0.0029 U	0.00238 U	0.00275 U	0.00269 U	NA	NA	NA	NA	NA	NA	NA
CIS-1,2-DICHLOROETHENE	0.00133 U	0.00135 U	0.00145 U	0.00119 U	0.00137 U	0.00134 U	NA	NA	NA	NA	NA	NA	NA
CIS-1,3-DICHLOROPROPENE	0.00133 U	0.00135 U	0.00145 U	0.00119 U	0.00137 U	0.00134 U	NA	NA	NA	NA	NA	NA	NA
CYCLOHEXANE	0.00133 U	0.00135 U	0.00145 U	0.00119 U	0.00137 U	0.00134 U	NA	NA	NA	NA	NA	NA	NA
DICHLORODIFLUOROMETHANE	0.00266 U	0.0027 U	0.0029 U	0.00238 U	0.00275 U	0.00269 U	NA	NA	NA	NA	NA	NA	NA
ETHYLBENZENE	0.00173 J	0.00213 J	0.00164 J	0.00156 J	0.00208 J	0.00209 J	NA	NA	NA	NA	NA	NA	NA
ISOPROPYLBENZENE	0.00133 U	0.00135 U	0.00145 U	0.00119 U	0.00137 U	0.00134 U	NA	NA	NA	NA	NA	NA	NA
M+P-XYLENES	0.00334 J	0.00383 J	0.00318 J	0.00238 U	0.00355 J	0.00381 J	NA	NA	NA	NA	NA	NA	NA
METHYL ACETATE	0.00266 U	0.0027 U	0.0029 U	0.00238 U	0.00275 U	0.00269 U	NA	NA	NA	NA	NA	NA	NA
METHYL CYCLOHEXANE	0.00133 U	0.00135 U	0.00145 U	0.00119 U	0.00137 U	0.00134 U	NA	NA	NA	NA	NA	NA	NA
METHYL TERT-BUTYL ETHER	0.00133 U	0.00135 U	0.00145 U	0.00119 U	0.00137 U	0.00134 U	NA	NA	NA	NA	NA	NA	NA
METHYLENE CHLORIDE	0.00739	0.00741	0.00693	0.0057	0.053	0.00526 J	NA	NA	NA	NA	NA	NA	NA
O-XYLENE	0.00133 U	0.0014 J	0.00145 U	0.00119 U	0.00137 U	0.00138 J	NA	NA	NA	NA	NA	NA	NA
STYRENE	0.00133 U	0.00135 U	0.00145 U	0.00119 U	0.00137 U	0.00134 U	NA	NA	NA	NA	NA	NA	NA
TETRACHLOROETHENE	0.00133 U	0.00135 U	0.00145 U	0.00119 U	0.00137 U	0.00134 U	NA	NA	NA	NA	NA	NA	NA
TOLUENE	0.0042 J	0.00459 J	0.00395 J	0.00272 J	0.00447 J	0.00467 J	NA	NA	NA	NA	NA	NA	NA

Table D-1
Soil Analytical Results

Site Assessment Report - Site 4
Fleet Logistics Center Jacksonville - Navy Fuel Depot
Jacksonville, Florida

LOCATION	FLC-4-SB01			FLC-4-SB02			FLC-4-P01				FLC-4-P02		FLC-4-P03
SAMPLE IDENTIFICATION	FLC-4-SS01-0006-092211	FLC-4-SS01-0624-092211	FLC-4-SB01-0204-092211	FLC-4-SS02-0006-092211	FLC-4-SS02-0624-092211	FLC-4-SB02-0204-092211	FLC-4-PO1-0624-022112	FLC-4-PO1-0204-022112	FLC-4-PO1-0204-022112-AVG	FLC-4-PO1-0204-022112-D	FLC-4-PO2-0624-022112	FLC-4-PO2-0204-022112	FLC-4-PO3-0624-022112
SAMPLE DATE	20110922	20110922	20110922	20110922	20110922	20110922	20120221	20120221	20120221	20120221	20120221	20120221	20120221
TOP DEPTH	0	0.5	2	0	0.5	2	0.5	2	2	2	0.5	2	0.5
BOTTOM DEPTH	0.5	2	4	0.5	2	4	2	4	4	4	2	4	2
VOLATILES (mg/kg)													
TRANS-1,2-DICHLOROETHENE	0.00133 U	0.00135 U	0.00145 U	0.00119 U	0.00137 U	0.00134 U	NA	NA	NA	NA	NA	NA	NA
TRANS-1,3-DICHLOROPROPENE	0.00133 U	0.00135 U	0.00145 U	0.00119 U	0.00137 U	0.00134 U	NA	NA	NA	NA	NA	NA	NA
TRICHLOROETHENE	0.00133 U	0.00135 U	0.00145 U	0.00119 U	0.00137 U	0.00134 U	NA	NA	NA	NA	NA	NA	NA
TRICHLOROFLUOROMETHANE	0.00266 U	0.0027 U	0.0029 U	0.00238 U	0.00275 U	0.00269 U	NA	NA	NA	NA	NA	NA	NA
VINYL CHLORIDE	0.00266 U	0.0027 U	0.0029 U	0.00238 U	0.00275 U	0.00269 U	NA	NA	NA	NA	NA	NA	NA

LOCATION	FLC-4-P03	FLC-4-P04		FLC-4-P06				FLC-4-P07		FLC-4-P08		FLC-4-P09	
SAMPLE IDENTIFICATION	FLC-4-PO3-0204-022112	FLC-4-PO4-0624-022112	FLC-4-PO4-0204-022112	FLC-4-PO6-0624-022112	FLC-4-PO6-0204-022112	FLC-4-PO6-0204-022112-AVG	FLC-4-PO6-0204-022112-D	FLC-4-PO7-0624-022112	FLC-4-PO7-0204-022112	FLC-4-PO8-0624-022112	FLC-4-PO8-0204-022112	FLC-4-PO9-0006-022112	FLC-4-PO9-0624-022112
SAMPLE DATE	20120221	20120221	20120221	20120221	20120221	20120221	20120221	20120221	20120221	20120221	20120221	20120221	20120221
TOP DEPTH	2	0.5	2	0.5	2	2	2	0.5	2	0.5	2	0	0.5
BOTTOM DEPTH	4	2	4	2	4	4	4	2	4	2	4	0.5	2
POLYCYCLIC AROMATIC HYDROCARBONS (mg/kg)													
1-METHYLNAPHTHALENE	0.00196 U	0.00169 U	0.00189 U	0.00165 U	0.00208 U	0.001985 U	0.00189 U	0.00171 U	0.00178 U	0.00172 U	0.00176 U	0.00175 U	0.0017 U
2-METHYLNAPHTHALENE	0.00196 U	0.00169 U	0.00189 U	0.00191 J	0.00208 U	0.001985 U	0.00189 U	0.00171 U	0.00178 U	0.00172 U	0.00176 U	0.00256 J	0.0017 U
ACENAPHTHENE	0.00196 U	0.00169 U	0.00189 U	0.00165 U	0.00208 U	0.001985 U	0.00189 U	0.00171 U	0.00178 U	0.00172 U	0.00176 U	0.00175 U	0.0017 U
ACENAPHTHYLENE	0.00196 U	0.00169 U	0.00189 U	0.00282 J	0.00208 U	0.001985 U	0.00189 U	0.00171 U	0.00178 U	0.00172 U	0.00176 U	0.00384 J	0.0017 U
ANTHRACENE	0.00196 U	0.00169 U	0.00189 U	0.00165 U	0.00208 U	0.001985 U	0.00189 U	0.00171 U	0.00178 U	0.00172 U	0.00176 U	0.00282 J	0.0017 U
BAP EQUIVALENT-HALFND	0.00196 U	0.00169 U	0.002183	0.009092	0.00208 U	0.001985 U	0.00189 U	0.002172	0.00178 U	0.00172 U	0.00176 U	0.076165	0.002287
BAP EQUIVALENT-POS	0.00196 U	0.00169 U	0.000002	0.008095	0.00208 U	0.001985 U	0.00189 U	0.000284	0.00178 U	0.00172 U	0.00176 U	0.076165	0.000502
BENZO(A)ANTHRACENE	0.00196 U	0.00169 U	0.00189 U	0.00165 U	0.00208 U	0.001985 U	0.00189 U	0.0028 J	0.00178 U	0.00172 U	0.00176 U	0.0455	0.00208 J
BENZO(A)PYRENE	0.00196 U	0.00169 U	0.00189 U	0.00762	0.00208 U	0.001985 U	0.00189 U	0.00171 U	0.00178 U	0.00172 U	0.00176 U	0.051	0.0017 U
BENZO(B)FLUORANTHENE	0.00196 U	0.00169 U	0.00189 U	0.00165 U	0.00208 U	0.001985 U	0.00189 U	0.00171 U	0.00178 U	0.00172 U	0.00176 U	0.0495	0.00272 J

Table D-1
Soil Analytical Results

Site Assessment Report - Site 4
Fleet Logistics Center Jacksonville - Navy Fuel Depot
Jacksonville, Florida

LOCATION	FLC-4-P03	FLC-4-P04		FLC-4-P06				FLC-4-P07		FLC-4-P08		FLC-4-P09	
SAMPLE IDENTIFICATION	FLC-4-PO3-0204-022112	FLC-4-PO4-0624-022112	FLC-4-PO4-0204-022112	FLC-4-PO6-0624-022112	FLC-4-PO6-0204-022112	FLC-4-PO6-0204-022112-AVG	FLC-4-PO6-0204-022112-D	FLC-4-PO7-0624-022112	FLC-4-PO7-0204-022112	FLC-4-PO8-0624-022112	FLC-4-PO8-0204-022112	FLC-4-PO9-0006-022112	FLC-4-PO9-0624-022112
SAMPLE DATE	20120221	20120221	20120221	20120221	20120221	20120221	20120221	20120221	20120221	20120221	20120221	20120221	20120221
TOP DEPTH	2	0.5	2	0.5	2	2	2	0.5	2	0.5	2	0	0.5
BOTTOM DEPTH	4	2	4	2	4	4	4	2	4	2	4	0.5	2
POLYCYCLIC AROMATIC HYDROCARBONS (mg/kg)													
BENZO(G,H,I)PERYLENE	0.00196 U	0.00169 U	0.00189 U	0.00515 J	0.00208 U	0.001985 U	0.00189 U	0.00171 U	0.00178 U	0.00172 U	0.00176 U	0.0377	0.0017 U
BENZO(K)FLUORANTHENE	0.00196 U	0.00169 U	0.00189 U	0.00165 U	0.00208 U	0.001985 U	0.00189 U	0.00171 U	0.00178 U	0.00172 U	0.00176 U	0.0505	0.00209 J
CHRYSENE	0.00196 U	0.00169 U	0.00201 J	0.0155	0.00208 U	0.001985 U	0.00189 U	0.00408 J	0.00178 U	0.00172 U	0.00176 U	0.0704	0.0029 J
DIBENZO(A,H)ANTHRACENE	0.00196 U	0.00169 U	0.00189 U	0.00165 U	0.00208 U	0.001985 U	0.00189 U	0.00171 U	0.00178 U	0.00172 U	0.00176 U	0.0123	0.0017 U
FLUORANTHENE	0.00326 J	0.00188 J	0.00189 U	0.0187	0.00341 J	0.002178	0.00189 U	0.00539 J	0.00178 U	0.00172 U	0.00177 J	0.0701	0.0028 J
FLUORENE	0.00196 U	0.00169 U	0.00189 U	0.00165 U	0.00208 U	0.001985 U	0.00189 U	0.00171 U	0.00178 U	0.00172 U	0.00176 U	0.00175 U	0.0017 U
INDENO(1,2,3-CD)PYRENE	0.00196 U	0.00169 U	0.00189 U	0.0046 J	0.00208 U	0.001985 U	0.00189 U	0.00171 U	0.00178 U	0.00172 U	0.00176 U	0.0279	0.0017 U
NAPHTHALENE	0.00196 U	0.00169 U	0.00189 U	0.00165 U	0.00208 U	0.001985 U	0.00189 U	0.00171 U	0.00178 U	0.00172 U	0.00176 U	0.00448 J	0.0017 U
PHENANTHRENE	0.00288 J	0.00169 U	0.00189 U	0.0189	0.00303 J	0.001988	0.00189 U	0.00264 J	0.00178 U	0.00172 U	0.00176 U	0.0272	0.0019 J
PYRENE	0.00265 J	0.0024 J	0.00189 U	0.0261	0.00285 J	0.001898	0.00189 U	0.00554 J	0.00181 J	0.00172 U	0.00195 J	0.0984	0.00345 J

LOCATION	FLC-4-P09	FLC-4-SB05	FLC-4-SB06	FLC-4-SB07	FLC-4-SB08			FLC-4-SB09		FLC-4-SB10	FLC-4-SB11	FLC-4-SB12	FLC-4-SB13
SAMPLE IDENTIFICATION	FLC-4-PO9-0204-022112	FLC-4-SB05-0006-042612	FLC-4-SB06-0006-042612	FLC-4-SB07-0006-042612	FLC-4-SB08-0006-042612	FLC-4-SB08-0006-042612-AVG	FLC-4-SB08-0006-042612-D	FLC-4-SB09-0024-042612	FLC-4-SB09-0204-042612	FLC-4-SB10-0006-061212	FLC-4-SB11-0006-061212	FLC-4-SB12-0006-061212	FLC-4-SB13-0024-061212
SAMPLE DATE	20120221	20120426	20120426	20120426	20120426	20120426	20120426	20120426	20120426	20120612	20120612	20120612	20120612
TOP DEPTH	2	0	0	0	0	0	0	0	2	0	0	0	0
BOTTOM DEPTH	4	0.5	0.5	0.5	0.5	0.5	0.5	0.5	4	0.5	0.5	0.5	2
POLYCYCLIC AROMATIC HYDROCARBONS (mg/kg)													
1-METHYLNAPHTHALENE	0.00166 U	0.00229 U	0.00227 U	0.00472 J	0.00671 J	0.003905	0.0022 U	0.303	0.0311	0.00176 U	0.00955 U	0.00192 U	0.00202 U
2-METHYLNAPHTHALENE	0.00166 U	0.00229 U	0.00227 U	0.00813	0.0156 J	0.00835	0.0022 UJ	0.614	0.0551	0.00176 U	0.00955 U	0.00192 U	0.00202 U
ACENAPHTHENE	0.00166 U	0.00229 U	0.00227 U	0.00189 U	0.00499 J	0.003045	0.0022 U	0.0173 U	0.00204 U	0.00176 U	0.00955 U	0.00192 U	0.00202 U
ACENAPHTHYLENE	0.00166 U	0.00229 U	0.00227 U	0.0516	0.0521 J	0.0266	0.0022 UJ	1.16	0.127	0.00655 J	0.00955 U	0.00192 U	0.00202 U
ANTHRACENE	0.00166 U	0.00229 U	0.00227 U	0.0133	0.0394 J	0.02025	0.0022 UJ	0.325	0.0364	0.00176 U	0.00955 U	0.00192 U	0.00202 U
BAP EQUIVALENT-HALFND	0.006722	0.008998	0.011875	0.375596	0.563527	0.289224	0.01492	4.94291	0.494766	0.017772	0.059097	0.003401	0.00202 U
BAP EQUIVALENT-POS	0.005892	0.007624	0.010627	0.375596	0.563527	0.288619	0.01371	4.94291	0.494766	0.016804	0.054322	0.001385	0.00202 U
BENZO(A)ANTHRACENE	0.00416 J	0.00229 U	0.00227 U	0.229	0.377 J	0.18905	0.0022 UJ	1.96	0.189	0.00176 U	0.0447	0.00192 U	0.00202 U
BENZO(A)PYRENE	0.00473 J	0.00677 J	0.00894 J	0.274	0.377 J	0.19425	0.0115 J	3.65	0.361	0.0145	0.0428	0.00192 U	0.00202 U
BENZO(B)FLUORANTHENE	0.00425 J	0.00779 J	0.0103	0.274	0.614 J	0.3143	0.0146 J	3.02	0.305	0.0149	0.0441	0.00856	0.00202 U

Table D-1
Soil Analytical Results

Site Assessment Report - Site 4
Fleet Logistics Center Jacksonville - Navy Fuel Depot
Jacksonville, Florida

LOCATION	FLC-4-P09	FLC-4-SB05	FLC-4-SB06	FLC-4-SB07	FLC-4-SB08			FLC-4-SB09		FLC-4-SB10	FLC-4-SB11	FLC-4-SB12	FLC-4-SB13
SAMPLE IDENTIFICATION	FLC-4-PO9-0204-022112	FLC-4-SB05-0006-042612	FLC-4-SB06-0006-042612	FLC-4-SB07-0006-042612	FLC-4-SB08-0006-042612	FLC-4-SB08-0006-042612-AVG	FLC-4-SB08-0006-042612-D	FLC-4-SB09-0024-042612	FLC-4-SB09-0204-042612	FLC-4-SB10-0006-061212	FLC-4-SB11-0006-061212	FLC-4-SB12-0006-061212	FLC-4-SB13-0024-061212
SAMPLE DATE	20120221	20120426	20120426	20120426	20120426	20120426	20120426	20120426	20120426	20120612	20120612	20120612	20120612
TOP DEPTH	2	0	0	0	0	0	0	0	2	0	0	0	0
BOTTOM DEPTH	4	0.5	0.5	0.5	0.5	0.5	0.5	0.5	4	0.5	0.5	0.5	2
POLYCYCLIC AROMATIC HYDROCARBONS (mg/kg)													
BENZO(G,H,I)PERYLENE	0.00374 J	0.00509 J	0.0064 J	0.0994	0.189 J	0.097985	0.00697 J	2.28	0.247	0.00913	0.0285 J	0.00442 J	0.00202 U
BENZO(K)FLUORANTHENE	0.00445 J	0.00759 J	0.00977	0.269	0.591 J	0.30225	0.0135 J	3.68	0.354	0.0151	0.0421	0.00692 J	0.00202 U
CHRYSENE	0.00589 J	0.00229 U	0.012	0.266	0.717 J	0.36575	0.0145 J	4.11	0.426	0.0136	0.0517	0.00836	0.00202 U
DIBENZO(A,H)ANTHRACENE	0.00166 U	0.00229 U	0.00227 U	0.0384	0.0619 J	0.0315	0.0022 UJ	0.568	0.0605	0.00176 U	0.00955 U	0.00192 U	0.00202 U
FLUORANTHENE	0.00614 J	0.00883 J	0.0144	0.233	0.226 J	0.1236	0.0212 J	3.15	0.338	0.017	0.101	0.0112	0.00202 U
FLUORENE	0.00166 U	0.00229 U	0.00227 U	0.00533 J	0.00182 U	0.00201 U	0.0022 U	0.0173 U	0.0125	0.00176 U	0.00955 U	0.00192 U	0.00202 U
INDENO(1,2,3-CD)PYRENE	0.00272 J	0.00229 U	0.00548 J	0.0994	0.189 J	0.097505	0.00601 J	1.86	0.199	0.0065 J	0.0217 J	0.00452 J	0.00202 U
NAPHTHALENE	0.00166 U	0.00229 U	0.00227 U	0.00988	0.0407 J	0.0209	0.0022 UJ	0.817	0.0717	0.00176 U	0.00955 U	0.00192 U	0.00202 U
PHENANTHRENE	0.00281 J	0.00505 J	0.00779 J	0.0215	0.0452 J	0.0286	0.012 J	1.73	0.188	0.00988	0.0647	0.00725 J	0.00202 U
PYRENE	0.00846	0.00229 U	0.0191	0.33	0.265 J	0.14345	0.0219 J	5.34	0.581	0.0231	0.0917	0.0143	0.00202 U

LOCATION	FLC-4-SB13	FLC-4-SB14		FLC-4-SS03	FLC-4-SS04			FLC-4-SSC		FLC-4-SBC
SAMPLE IDENTIFICATION	FLC-4-SB13-0203-061212	FLC-4-SB14-0024-061212	FLC-4-SB14-0203-061212	FLC-4-SS03-0006-022112	FLC-4-SS04-0006-022112	FLC-4-SS04-0006-022112-AVG	FLC-4-SS04-0006-022112-D	FLC-4-SSC-0006-092211	FLC-4-SSC-0624-092211	FLC-4-SBC-0204-092211
SAMPLE DATE	20120612	20120612	20120612	20120221	20120221	20120221	20120221	20120922	20120922	20120922
TOP DEPTH	2	0	2	0	0	0	0	0	0.5	2
BOTTOM DEPTH	3	2	3	0.5	0.5	0.5	0.5	0.5	2	4
POLYCYCLIC AROMATIC HYDROCARBONS (mg/kg)										
1-METHYLNAPHTHALENE	0.00201 U	0.00198 U	0.00197 U	0.0175 U	0.0218 U	0.00768	0.00768	NA	NA	NA
2-METHYLNAPHTHALENE	0.0044 J	0.00198 U	0.00197 U	0.0175 U	0.0319 J	0.0222	0.0125 J	NA	NA	NA
ACENAPHTHENE	0.00201 U	0.00198 U	0.00197 U	0.0175 U	0.0218 U	0.00351 J	0.00351 J	NA	NA	NA
ACENAPHTHYLENE	0.00201 U	0.00198 U	0.00197 U	0.0452 J	0.0781 J	0.0691	0.0601	NA	NA	NA
ANTHRACENE	0.00201 U	0.00198 U	0.00197 U	0.0175 U	0.0333 J	0.02545	0.0176 J	NA	NA	NA
BAP EQUIVALENT-HALFND	0.00201 U	0.00198 U	0.00197 U	0.186679	0.289228	0.264711	0.240194	NA	NA	NA
BAP EQUIVALENT-POS	0.00201 U	0.00198 U	0.00197 U	0.186679	0.289228	0.264711	0.240194	NA	NA	NA
BENZO(A)ANTHRACENE	0.00201 U	0.00198 U	0.00197 U	0.0764	0.138	0.131	0.124	NA	NA	NA
BENZO(A)PYRENE	0.00201 U	0.00198 U	0.00197 U	0.122	0.195	0.18	0.165	NA	NA	NA
BENZO(B)FLUORANTHENE	0.00201 U	0.00198 U	0.00197 U	0.139	0.189	0.171	0.153	NA	NA	NA

Table D-1
Soil Analytical Results

Site Assessment Report - Site 4
Fleet Logistics Center Jacksonville - Navy Fuel Depot
Jacksonville, Florida

LOCATION	FLC-4-SB13	FLC-4-SB14		FLC-4-SS03	FLC-4-SS04			FLC-4-SSC		FLC-4-SBC
SAMPLE IDENTIFICATION	FLC-4-SB13-0203-061212	FLC-4-SB14-0024-061212	FLC-4-SB14-0203-061212	FLC-4-SS03-0006-022112	FLC-4-SS04-0006-022112	FLC-4-SS04-0006-022112-AVG	FLC-4-SS04-0006-022112-D	FLC-4-SSC-0006-092211	FLC-4-SSC-0624-092211	FLC-4-SBC-0204-092211
SAMPLE DATE	20120612	20120612	20120612	20120221	20120221	20120221	20120221	20120922	20120922	20120922
TOP DEPTH	2	0	2	0	0	0	0	0	0.5	2
BOTTOM DEPTH	3	2	3	0.5	0.5	0.5	0.5	0.5	2	4
POLYCYCLIC AROMATIC HYDROCARBONS (mg/kg)										
BENZO(G,H,I)PERYLENE	0.00201 U	0.00198 U	0.00197 U	0.0901	0.145	0.1275	0.11	NA	NA	NA
BENZO(K)FLUORANTHENE	0.00201 U	0.00198 U	0.00197 U	0.13	0.193	0.1805	0.168	NA	NA	NA
CHRYSENE	0.00201 U	0.00198 U	0.00197 U	0.159	0.298	0.261	0.224	NA	NA	NA
DIBENZO(A,H)ANTHRACENE	0.00201 U	0.00198 U	0.00197 U	0.0348 J	0.048 J	0.0423	0.0366	NA	NA	NA
FLUORANTHENE	0.00201 U	0.00198 U	0.00197 U	0.114	0.226	0.2085	0.191	NA	NA	NA
FLUORENE	0.00201 U	0.00198 U	0.00197 U	0.0175 U	0.0218 U	0.011735 U	0.00167 U	NA	NA	NA
INDENO(1,2,3-CD)PYRENE	0.00201 U	0.00198 U	0.00197 U	0.0688 J	0.113	0.10145	0.0899	NA	NA	NA
NAPHTHALENE	0.00201 U	0.00198 U	0.00197 U	0.0175 U	0.0394 J	0.02655	0.0137 J	NA	NA	NA
PHENANTHRENE	0.00201 U	0.00198 U	0.00197 U	0.0356 J	0.0841 J	0.0808	0.0775	NA	NA	NA
PYRENE	0.00201 U	0.00198 U	0.00197 U	0.193	0.368	0.329	0.29	NA	NA	NA

Table D-1
Soil Analytical Results

Site Assessment Report - Site 4
Fleet Logistics Center Jacksonville - Navy Fuel Depot
Jacksonville, Florida

LOCATION	FLC-4-SB13	FLC-4-SB14		FLC-4-SS03	FLC-4-SS04			FLC-4-SSC		FLC-4-SBC
SAMPLE IDENTIFICATION	FLC-4-SB13-0203-061212	FLC-4-SB14-0024-061212	FLC-4-SB14-0203-061212	FLC-4-SS03-0006-022112	FLC-4-SS04-0006-022112	FLC-4-SS04-0006-022112-AVG	FLC-4-SS04-0006-022112-D	FLC-4-SSC-0006-092211	FLC-4-SSC-0624-092211	FLC-4-SBC-0204-092211
SAMPLE DATE	20120612	20120612	20120612	20120221	20120221	20120221	20120221	20120922	20120922	20120922
TOP DEPTH	2	0	2	0	0	0	0	0	0.5	2
BOTTOM DEPTH	3	2	3	0.5	0.5	0.5	0.5	0.5	2	4
DIOXINS/FURANS (pg/g)										
2,3,7,8-TCDD	NA	NA	NA	NA	NA	NA	NA	0.348 U	5.92 U	0.331 U
1,2,3,7,8-PECDD	NA	NA	NA	NA	NA	NA	NA	4.73	4.46 JK	0.57 J
1,2,3,4,7,8-HXCDD	NA	NA	NA	NA	NA	NA	NA	13.4	11.2 JK	2.53 J
1,2,3,6,7,8-HXCDD	NA	NA	NA	NA	NA	NA	NA	34.3	28.5 JK	4.89
1,2,3,7,8,9-HXCDD	NA	NA	NA	NA	NA	NA	NA	22.3	18 JQ	4.96
1,2,3,4,6,7,8-HPCDD	NA	NA	NA	NA	NA	NA	NA	1670	1630	238
1,2,3,4,6,7,8,9-OCDD	NA	NA	NA	NA	NA	NA	NA	11000 E	11900	1580
2,3,7,8-TCDF	NA	NA	NA	NA	NA	NA	NA	0.45 U	3.26 U	0.24 U
1,2,3,7,8-PECDF	NA	NA	NA	NA	NA	NA	NA	0.672 U	5.57 U	0.341 U
2,3,4,7,8-PECDF	NA	NA	NA	NA	NA	NA	NA	0.706 J	5.69 U	0.349 U
1,2,3,4,7,8-HXCDF	NA	NA	NA	NA	NA	NA	NA	9.11	10.4 J	1.24 J
1,2,3,6,7,8-HXCDF	NA	NA	NA	NA	NA	NA	NA	1.54 JK	4.23 U	0.241 JK
2,3,4,6,7,8-HXCDF	NA	NA	NA	NA	NA	NA	NA	2.1 J	4.69 U	0.418 J
1,2,3,7,8,9-HXCDF	NA	NA	NA	NA	NA	NA	NA	0.544 U	5.67 U	0.316 U
1,2,3,4,6,7,8-HPCDF	NA	NA	NA	NA	NA	NA	NA	18.6	19.6 J	2.46 J
1,2,3,4,7,8,9-HPCDF	NA	NA	NA	NA	NA	NA	NA	1.8 J	4.27 U	0.37 U
1,2,3,4,6,7,8,9-OCDF	NA	NA	NA	NA	NA	NA	NA	19.1	22.8 J	2.6 J
TOTAL TCDD	NA	NA	NA	NA	NA	NA	NA	0.348 U	5.92 U	0.331 U
TOTAL PECDD	NA	NA	NA	NA	NA	NA	NA	17.4 Q	4.33 U	0.57 J
TOTAL HXCDD	NA	NA	NA	NA	NA	NA	NA	394 Q	348	57.4
TOTAL HPCDD	NA	NA	NA	NA	NA	NA	NA	3290 E	3220	465
TOTAL TCDF	NA	NA	NA	NA	NA	NA	NA	1.76	3.26 U	0.24 U
TOTAL PECDF	NA	NA	NA	NA	NA	NA	NA	8.92 Q	5.07 J	0.45 J
TOTAL HXCDF	NA	NA	NA	NA	NA	NA	NA	55.1 Q	35.9 J	6.97
TOTAL HPCDF	NA	NA	NA	NA	NA	NA	NA	40.8	38.4 J	5.81
TEQ WHO-2005	NA	NA	NA	NA	NA	NA	NA	33.3	25.8	4.85
TEQ WHO-2005 - HALFND	NA	NA	NA	NA	NA	NA	NA	33.5	33	5.11

Notes:
NA = not analyzed
U = Result is less than laboratory method detection limit.
J = Result is an estimated laboratory value.
K = Estimated Maximum Possible Concentration
Q = Quantitative Interference
E = Value is estimated. Concentration of the target analyte exceeds the instrument calibration range.
pg/g = picograms per gram

Table D-2
Groundwater Analtyical Results

Site Assessment Report, Site 4
Fleet Logistics Center Jacksonville - Navy Fuel Depot
Jacksonville, Florida

LOCATION	**FLC-4-MW01**	**FLC-4-MW02**	**FLC-4-MW-NFD1R**
SAMPLE IDENTIFICATION	FLC-4-MW01-092911	FLC-4-MW02-092911	FLC-4-MW-NFD1R-20120511
SAMPLE DATE	20110929	20110929	20120511
DISSOLVED METALS (µg/L)			
ANTIMONY	5 UX	5 UX	NA
ARSENIC	3.53	4.12	NA
BARIUM	8.32 J	6.28 J	NA
BERYLLIUM	2.5 U	2.5 U	NA
CADMIUM	1 U	1 U	NA
CHROMIUM	2 U	2 U	NA
COPPER	5 U	5 U	NA
LEAD	1.5 U	1.5 U	NA
MERCURY	0.08 U	0.08 U	NA
NICKEL	5 U	5 U	NA
SELENIUM	3 U	3 U	NA
SILVER	1 U	1 U	NA
THALLIUM	4 U	4 U	NA
TIN	5 U	5 U	NA
ZINC	10 U	10 U	NA
METALS (µg/L)			
ANTIMONY	5 UX	5 UX	NA
ARSENIC	4.6	5.31	NA
BARIUM	8.83 J	6.7 J	NA
BERYLLIUM	2.5 U	2.5 U	NA
CADMIUM	1 U	1 U	NA
CHROMIUM	2 U	2 U	NA
COPPER	5 U	5 U	NA
LEAD	1.5 U	1.5 U	NA
MERCURY	0.08 U	0.08 U	NA
NICKEL	5 U	5 U	NA
SELENIUM	3 U	3 U	NA
SILVER	1 U	1 U	NA
THALLIUM	4 U	4 U	NA
TIN	5 U	5 U	NA
ZINC	10 U	10 U	NA
PCBS (µg/L)			
AROCLOR-1016	0.12 U	0.12 U	NA
AROCLOR-1221	0.12 U	0.12 U	NA
AROCLOR-1232	0.12 U	0.12 U	NA
AROCLOR-1242	0.12 U	0.12 U	NA
AROCLOR-1248	0.12 U	0.12 U	NA
AROCLOR-1254	0.12 U	0.12 U	NA

Table D-2
Groundwater Analtyical Results

Site Assessment Report, Site 4
Fleet Logistics Center Jacksonville - Navy Fuel Depot
Jacksonville, Florida

LOCATION	**FLC-4-MW01**	**FLC-4-MW02**	**FLC-4-MW-NFD1R**
SAMPLE IDENTIFICATION	FLC-4-MW01-092911	FLC-4-MW02-092911	FLC-4-MW-NFD1R-20120511
SAMPLE DATE	20110929	20110929	20120511
PCBS (µg/L)			
AROCLOR-1260	0.12 U	0.12 U	NA
PETROLEUM HYDROCARBONS (mg/L)			
TPH (C08-C40)	0.157 U	0.159 U	NA
POLYCYCLIC AROMATIC HYDROCARBONS (µg/L)			
1-METHYLNAPHTHALENE	0.0467 U	0.0463 U	0.0463 U
2-METHYLNAPHTHALENE	0.0467 U	0.0463 U	0.0463 U
ACENAPHTHENE	0.0467 U	0.0631 J	0.0463 U
ACENAPHTHYLENE	0.0467 U	0.0463 U	0.0463 U
ANTHRACENE	0.0467 U	0.0463 U	0.0463 U
BAP EQUIVALENT-HALFND	0.0467 U	0.0463 U	NA
BAP EQUIVALENT-POS	0.0467 U	0.0463 U	NA
BENZO(A)ANTHRACENE	0.0467 U	0.0463 U	0.0586 J
BENZO(A)PYRENE	0.0467 U	0.0463 U	0.0463 U
BENZO(B)FLUORANTHENE	0.0467 U	0.0463 U	0.0463 U
BENZO(G,H,I)PERYLENE	0.0467 U	0.0463 U	0.0605 J
BENZO(K)FLUORANTHENE	0.0467 U	0.0463 U	0.0463 U
CHRYSENE	0.0467 U	0.0463 U	0.0547 J
DIBENZO(A,H)ANTHRACENE	0.0467 U	0.0463 U	0.0535 J
FLUORANTHENE	0.0467 U	0.0463 U	0.0749 J
FLUORENE	0.0467 U	0.0463 U	0.0463 U
HEXACHLOROBUTADIENE	0.234 U	0.231 U	NA
INDENO(1,2,3-CD)PYRENE	0.0467 U	0.0463 U	0.0559 J
NAPHTHALENE	0.0467 U	0.0463 U	0.0463 U
PENTACHLOROPHENOL	0.935 U	0.926 U	NA
PHENANTHRENE	0.0708 U	0.0917 U	0.103 J
PYRENE	0.0467 U	0.0463 U	0.0728 J
SEMIVOLATILES (µg/L)			
1,1-BIPHENYL	0.467 U	0.463 U	NA
1,2,4,5-TETRACHLOROBENZENE	1.17 U	1.16 U	NA
2,2'-OXYBIS(1-CHLOROPROPANE)	0.467 U	0.463 U	NA
2,3,4,6-TETRACHLOROPHENOL	1.17 U	1.16 U	NA
2,4,5-TRICHLOROPHENOL	0.467 U	0.463 U	NA
2,4,6-TRICHLOROPHENOL	1.17 U	1.16 U	NA
2,4-DICHLOROPHENOL	0.234 U	0.231 U	NA
2,4-DIMETHYLPHENOL	4.67 U	4.63 U	NA
2,4-DINITROPHENOL	11.7 U	11.6 U	NA
2,4-DINITROTOLUENE	1.17 U	1.16 U	NA
2,6-DINITROTOLUENE	1.17 U	1.16 U	NA

Table D-2
Groundwater Analtyical Results

Site Assessment Report, Site 4
Fleet Logistics Center Jacksonville - Navy Fuel Depot
Jacksonville, Florida

LOCATION	**FLC-4-MW01**	**FLC-4-MW02**	**FLC-4-MW-NFD1R**
SAMPLE IDENTIFICATION	FLC-4-MW01-092911	FLC-4-MW02-092911	FLC-4-MW-NFD1R-20120511
SAMPLE DATE	20110929	20110929	20120511
SEMIVOLATILES (µg/L)			
2-CHLORONAPHTHALENE	1.17 U	1.16 U	NA
2-CHLOROPHENOL	1.17 U	1.16 U	NA
2-METHYLPHENOL	1.17 U	1.16 U	NA
2-NITROANILINE	4.67 U	4.63 U	NA
2-NITROPHENOL	1.17 U	1.16 U	NA
3,3'-DICHLOROBENZIDINE	1.17 U	1.16 U	NA
3-NITROANILINE	1.17 U	1.16 U	NA
4,6-DINITRO-2-METHYLPHENOL	4.67 U	4.63 U	NA
4-BROMOPHENYL PHENYL ETHER	1.17 U	1.16 U	NA
4-CHLORO-3-METHYLPHENOL	1.17 U	1.16 U	NA
4-CHLOROANILINE	1.17 U	1.16 U	NA
4-CHLOROPHENYL PHENYL ETHER	1.17 U	1.16 U	NA
4-METHYLPHENOL	1.17 U	1.16 U	NA
4-NITROANILINE	1.17 U	1.16 U	NA
4-NITROPHENOL	4.67 U	4.63 U	NA
ACETOPHENONE	1.17 U	1.16 U	NA
ATRAZINE	1.17 U	1.16 U	NA
BENZALDEHYDE	1.17 U	1.16 U	NA
BIS(2-CHLOROETHOXY)METHANE	1.17 U	1.16 U	NA
BIS(2-CHLOROETHYL)ETHER	1.17 U	1.16 U	NA
BIS(2-ETHYLHEXYL)PHTHALATE	1.17 U	1.16 U	NA
BUTYL BENZYL PHTHALATE	1.17 U	1.16 U	NA
CAPROLACTAM	1.17 U	1.16 U	NA
CARBAZOLE	1.17 U	1.16 U	NA
DIBENZOFURAN	1.17 U	1.16 U	NA
DIETHYL PHTHALATE	1.17 U	1.16 U	NA
DIMETHYL PHTHALATE	1.17 U	1.16 U	NA
DI-N-BUTYL PHTHALATE	1.17 U	1.16 U	NA
DI-N-OCTYL PHTHALATE	1.17 U	1.16 U	NA
HEXACHLOROBENZENE	0.935 U	0.926 U	NA
HEXACHLOROCYCLOPENTADIENE	1.17 U	1.16 U	NA
HEXACHLOROETHANE	1.17 U	1.16 U	NA
ISOPHORONE	1.17 U	1.16 U	NA
NAPHTHALENE	1.17 U	1.16 U	NA
NITROBENZENE	1.17 U	1.16 U	NA
N-NITROSO-DI-N-PROPYLAMINE	1.17 U	1.16 U	NA
N-NITROSODIPHENYLAMINE	1.17 U	1.16 U	NA
PHENOL	1.17 U	1.16 U	NA

Table D-2
Groundwater Analtyical Results

Site Assessment Report, Site 4
Fleet Logistics Center Jacksonville - Navy Fuel Depot
Jacksonville, Florida

LOCATION	**FLC-4-MW01**	**FLC-4-MW02**	**FLC-4-MW-NFD1R**
SAMPLE IDENTIFICATION	FLC-4-MW01-092911	FLC-4-MW02-092911	FLC-4-MW-NFD1R-20120511
SAMPLE DATE	20110929	20110929	20120511
VOLATILES (µg/L)			
1,1,1,2-TETRACHLOROETHANE	0.25 U	0.25 U	NA
1,1,1-TRICHLOROETHANE	0.25 U	0.25 U	NA
1,1,2,2-TETRACHLOROETHANE	0.2 U	0.2 U	NA
1,1,2-TRICHLOROETHANE	0.25 U	0.25 U	NA
1,1,2-TRICHLOROTRIFLUOROETHANE	0.25 U	0.25 U	NA
1,1-DICHLOROETHANE	0.25 U	0.25 U	NA
1,1-DICHLOROETHENE	0.25 U	0.25 U	NA
1,2,3-TRICHLOROBENZENE	0.25 U	0.25 U	NA
1,2,4-TRICHLOROBENZENE	0.25 U	0.25 U	NA
1,2-DIBROMO-3-CHLOROPROPANE	0.5 U	0.5 U	NA
1,2-DIBROMOETHANE	0.25 U	0.25 U	NA
1,2-DICHLOROBENZENE	0.25 U	0.25 U	NA
1,2-DICHLOROETHANE	0.25 U	0.25 U	NA
1,2-DICHLOROPROPANE	0.25 U	0.25 U	NA
1,3-DICHLOROBENZENE	0.25 U	0.25 U	NA
1,4-DICHLOROBENZENE	0.25 U	0.25 U	NA
1,4-DIOXANE	1 U	1 U	NA
2-BUTANONE	2.5 U	2.5 U	NA
2-HEXANONE	0.25 U	0.25 U	NA
4-METHYL-2-PENTANONE	1.25 U	1.25 U	NA
ACETONE	4.56 J	6.2 J	NA
BENZENE	0.25 U	0.25 U	NA
BROMOCHLOROMETHANE	0.5 U	0.5 U	NA
BROMODICHLOROMETHANE	0.25 U	0.25 U	NA
BROMOFORM	0.25 U	0.25 U	NA
BROMOMETHANE	0.5 U	0.5 U	NA
CARBON DISULFIDE	0.25 U	0.25 U	NA
CARBON TETRACHLORIDE	0.25 U	0.25 U	NA
CHLOROBENZENE	0.25 U	0.25 U	NA
CHLORODIBROMOMETHANE	0.25 U	0.25 U	NA
CHLOROETHANE	0.5 U	0.5 U	NA
CHLOROFORM	0.25 U	0.25 U	NA
CHLOROMETHANE	0.5 U	0.5 U	NA
CIS-1,2-DICHLOROETHENE	0.25 U	0.25 U	NA
CIS-1,3-DICHLOROPROPENE	0.25 U	0.25 U	NA
CYCLOHEXANE	0.5 U	0.5 U	NA
DICHLORODIFLUOROMETHANE	0.5 U	0.5 U	NA
ETHYLBENZENE	0.25 U	0.25 U	NA

Table D-2
Groundwater Analtyical Results

Site Assessment Report, Site 4
Fleet Logistics Center Jacksonville - Navy Fuel Depot
Jacksonville, Florida

LOCATION	**FLC-4-MW01**	**FLC-4-MW02**	**FLC-4-MW-NFD1R**
SAMPLE IDENTIFICATION	FLC-4-MW01-092911	FLC-4-MW02-092911	FLC-4-MW-NFD1R-20120511
SAMPLE DATE	20110929	20110929	20120511
VOLATILES (µg/L)			
ISOPROPYLBENZENE	0.25 U	0.25 U	NA
M+P-XYLENES	0.5 U	0.5 U	NA
METHYL ACETATE	0.5 U	0.5 U	NA
METHYL CYCLOHEXANE	0.25 U	0.25 U	NA
METHYL TERT-BUTYL ETHER	0.25 U	0.25 U	NA
METHYLENE CHLORIDE	0.5 U	0.5 U	NA
O-XYLENE	0.25 U	0.25 U	NA
STYRENE	0.25 U	0.25 U	NA
TETRACHLOROETHENE	0.25 U	0.25 U	NA
TOLUENE	0.25 U	0.25 U	NA
TRANS-1,2-DICHLOROETHENE	0.25 U	0.25 U	NA
TRANS-1,3-DICHLOROPROPENE	0.25 U	0.25 U	NA
TRICHLOROETHENE	0.25 U	0.25 U	NA
TRICHLOROFLUOROMETHANE	0.5 U	0.5 U	NA
VINYL CHLORIDE	0.25 U	0.25 U	NA

Notes:

NA - not analyzed

U - Result is less than laboratory method detection limit

J - Result is estimated laboratory value

X - Result has potential positive bias due to an ICV ro CCV exceeding the upper control limit on the high side

APPENDIX E

LABORATORY ANALYTICAL RESULTS

ANALYTICAL DATA PACKAGE
SDG # 1109191

PROJECT NAME: NAVY FUEL DEPOT CTO JM 46
PROJECT LOCATION: KEY WEST, FLORIDA
CONTRACT #: N62467-04-D-0055

SUBMITTAL TO:
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Original Report Date: October 31, 2011
Report Revision #: 01
Revision Date: November 23, 2011
Total # of Pages: 2355

THIS DOCUMENT MEETS DoD QSM 4.1 STANDARDS

The results relate to only the samples associated with the referenced SDG and the submitted data has been produced in accordance with laboratory procedures. The Laboratory's Technical Lab Director, Mr. Rick Davis, is responsible for the final data produced and reported. His signature is listed at the end of the Case Narrative within the Analytical Data Package. If applicable to this report package, details on report revisions and the information on subcontracted analysis are listed in the package Case Narrative. This report shall not be reproduced, except in full, without the written approval of Empirical Laboratories, LLC.

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Sample Delivery Group Case Narrative

Receipt Information
The samples were received within the preservation guidelines for the associated methods. The information associated with sample receipt and the Sample Delivery Group (SDG) are included within section 4 of this package, which also provides information on the link between the client sample ID listed on the COC and laboratory's assigned unique sample ID or WorkOrder #. The sample is tracked through the laboratory for all analysis via the assigned WorkOrder #.

All samples that were received were analyzed and none of the samples were placed on hold without analyses. Samples were subcontracted to Environmental Conservation Laboratories, Inc. for 1,4-Dioxane by SW8260B and to Cape Fear Analytical for Dioxans by SW8290.

Changes to the Revision
The package was revised to replace the SW6010C and SW7470A section of the package with the re-analysis of all samples for a different compound list analyzed as low level Metals.

Analytical Information
All samples were prepped (where applicable) and analyzed within the standard allowed holding times, unless noted within the exceptions listed below. The laboratory analyzed all samples within the program and method guidelines. The following information is provided specific to individual methods:

Chromatographic Flags for Manual Integration:
The following letters are used to denote manual integrations on the laboratory's raw data in association with chromatographic integrations:

A: The peak was manually integrated as it was not integrated in the original chromatogram.
B: The peak was manually integrated due to resolution or coelution issues in the original chromatogram.
C: The peak was manually integrated to correct the baseline from the original chromatogram.
D: The peak was manually integrated to identify the correct peak as the wrong peak was identified in the original chromatogram.
E: The peak was manually integrated to include the entire peak as the original chromatogram only integrated part of the peak.

SW8260B:
The surrogate Bromofluorobenzene exceeded criteria with a negative bias in 1109191-04. The surrogate Toluene-d8 exceeded criteria with a positive bias in 1109191-04 and -04RE1.

The method blank 1I27005-BLK1 has a positive result for 2-Hexanone. The method

blank 1I28025-BLK1 has a positive result for Methylene Chloride.

The batch spike associated to batch 1I28025 exceeded recovery criteria with a positive bias for Acetone, Bromomethane, 2-Hexanone, and Vinyl Chloride.

The matrix spikes associated to sample 1109191-02 exceeded recovery criteria with a positive bias for Bromomethane 1,2-Dibromoethane, 1,1,2,2-Tetrachloroethane, and Vinyl Chloride, exceeded recovery criteria with a negative bias for 1,2,3-Trichlorobenzene and 1,2,4-Trichlorobenzene, and exceeded relative percent difference criteria for Methyl Acetate.

The internal standard 1,4-Dichlorobenzene-d4 exceeded criteria with a negative bias in 1109191-04 and in the re-analysis of this sample 1109191-04RE1.

The continuing calibration verifications exceeded criteria in 1I27024-CCV1 with a positive bias for Bromomethane and with a negative bias for Methyl t-Butyl Ether, in 1I27201-CCV1 with a positive bias for Acetone, Bromoform, Bromomethane, and Vinyl Chloride and with a negative bias for Methyl t-Butyl Ether, and in 1I27207-CCV1 with a positive bias for Bromomform, 1,2,3-Trichlorobenzene, and 1,2,4-Trichlorobenzene and with a negative bias for Cyclohexane, Methylene Chloride, and Methyl Acetate.

No additional anomalies or deviations are noted and the proper data qualifiers have been applied.

SW8270C BNA:
All surrogates except Terphenyl-d14 exceeded criteria with a negative bias in 1109191-04.

The batch spike associated to batch 1I26926 exceeded criteria with a positive bias for Acetophenone and Butylbenzylphthalate and with a negative bias for Caprolactam. The batch spike associated to batch 1J03009 exceeded criteria with a positive bias for Di-n-butylphthalate, Hexachlorobutadiene, and N-nitroso-di-n-propylamine.

The matrix spikes associated to sample 1109191-02 exceeded recovery criteria with a negative bias for N-nitrosodiphenylamine and exceeded recovery criteria with no recovery for 2,4-Dinitrophenol.

The internal standard Perylene-d12 exceeded criteria with a negative bias in 1J03009-BLK1. The internal standards Phenanthrene-d10, Chrysene-d12, and Perylene-d12 exceeded criteria with a negative bias in 1J03009-MSD1.

The initial calibration verification 1E12203-ICV3 exceeded criteria with a positive bias for 2,4-Dinitrophenol.

The continuing calibration verifications exceeded criteria in 1I27208-CCV1 with a negative bias for Benzaldehyde, 2,2'-Oxybis-1-chloropropane, and Isophorone and with a positive bias for 2,4-Dinitropenol and 2-Nitroaniline, in 1J28307-CCV1 with a positive

bias for 2,4-Dinitrophenol, Di-n-octylphthalate, Hexachlorocyclopentadiene, and 4-Nitrophenol, in 1J29003-CCV1 with a negative bias for Benzo(g,h,i)perylene, Dibenz(a,h)anthracene, and Indeno(1,2,3-cd)pyrene and with a positive bias for Hexachlorobutadiene, and in 1J291050CCV1 with a negative bias for Benzo(g,h,i)perylene, 2,2'-Oxybis-1-chloropropane, Dibenz(a,h)anthracene, and Indeno(1,2,3-cd)pyrene and with a positive bias for Hexachlorobutadiene.

No additional anomalies or deviations are noted and the proper data qualifiers have been applied.

SW8270C BNA Low Level:
The method blank 1I26926-BLK2 has a positive result for Phenanthrene.

The batch spike associated to batch 1I26926 exceeded criteria with a positive bias for Pentachlorophenol.

The continuing calibration verification 1J29206-CCV1 exceeded criteria with a negative bias for Pentachlorophenol and 2,4,6-Tribromophenol.

No additional anomalies or deviations are noted and the proper data qualifiers have been applied.

SW8270C PAH:
The matrix spikes associated to sample 1109191-02 exceeded relative percent difference criteria for Acenaphthene, Acenaphthylene, 1-Methylnaphthalene, 2-Methylnaphthalene, and Naphthalene.

The continuing calibration verification 1J29908-CCV1 exceeded criteria with a positive bias for Benzo(g,h,i)perylene, Dibenz(a,h)anthracene, and Indeno(1,2,3-cd)pyrene.

No additional anomalies or deviations are noted and the proper data qualifiers have been applied.

SW8082A:
The surrogates Tetrachloro-m-xylene and Decachlorobiphenyl exceeded criteria with a positive bias in 1109191-01, -02, -03, -04, -05, -06, 1I29016-BLK1, -BS1, -MS1, and -MSD1. The surrogate Decachlorobiphenyl exceeded criteria with a negative bias in 1109191-10.

The batch spikes associated to batch 1I23014 exceeded recovery criteria with a positive bias on both columns for Aroclor-1016 and on column 2 for Aroclor-1260. The batch spike associated to batch 1I29016 exceeded recovery criteria with a positive bias on both columns for Aroclor-1016 and -1260.

The matrix spikes associated to sample 1109191-02 exceeded recovery criteria with a positive bias on both columns for Aroclor-1016 and -1260.

The continuing calibration verifications exceeded criteria in 1J27601-CCV4, -CCV8, 1J27708-CCVA, and -CCVG with a positive bias on both columns for Aroclor-1016 and -1260, in 1J27708-CCV7 with a negative bias on column 2 for Decachlorobiphenyl, in 1J28715-CCV1, -CCV5, and –CCV7 with a positive bias on column 2 for Aroclor-1016 and -1260, in 1J28715-CCV6 and –CCV8 with a positive bias on column 2 for Aroclor-1254, and in 1J28715-CCV9 with a negative bias on column 2 for Decachlorobiphenyl and Tetrachloro-m-xylene.

No additional anomalies or deviations are noted and the proper data qualifiers have been applied.

FLPRO:
The surrogate 2-Fluorobiphenyl exceeded criteria with a negative bias in 1109191-01, -03, and -05, exceeded criteria with a positive bias in 1109191-10, 1I28003-MS1, and -MSD1, and was diluted out in 1109191-02 and -06. The surrogate o-Terphenyl exceeded criteria with a negative bias in 1109191-03. The surrogate 2-Fluorobiphenyl exceeded the retention time window in 1I28003-MS1, -MSD1, 1109191-03, -04, and -05. The surrogate o-Terphenyl exceeded the retention time window in 1J27605-CCV2, -CCV3, 1I28003-BLK1, -BS1, -MSD1, 1109191-01, -03, -04, and -05. The result bias due to the retention time shift was determined to be negligible for all affected batch QC and samples.

The continuing calibration verifications exceeded criteria in 1J27605-CCV1 with a negative bias for 2-Fluorobiiphenyl and in 1J27605-CCV2 with a positive bias for Petroleum Range Organics and o-Terphenyl.

No additional anomalies or deviations are noted and the proper data qualifiers have been applied.

SW6010C/SW7470A/SW7471A:
The continuing calibration verifications exceeded criteria in 1J28401-CCV6, -CCV7, -CCV8, -CCV9, 1K32008-CCV6 and –CCV7 with a positive bias for Antimony.

The digestion blank 1J06014-BLK1 has a positive result for Tin.

No additional anomalies or deviations are noted and the proper data qualifiers have been applied.

Data Qualifiers
As applicable and where required, the following general qualifiers are associated with the sample results. Additional qualifiers will be specified within the reporting sections of the data package or within the body of the Case Narrative.

Analytical Report Terms and Qualifiers

MDL: The method detection limit (MDL) is defined as the minimum concentration of a substance that can be measured and reported with 99% confidence that the analyte concentration is greater than zero. The MDL is determined from analysis of a sample containing the analyte in a given matrix. For DoD QSM 4.1 reporting purposes, this definition is also applied to the reported Detection Limit (DL).

LOD: The Limit of Detection is an estimate of the minimum amount of a substance that an analytical process can reliably detect. An LOD is analyte- and matrix-specific and may be laboratory-dependent. This definition is further clarified in the DoD QSM 4.1 revisions as the smallest amount or concentration of a substance that must be present in a sample in order to be detected at a high level of confidence (99%). At the LOD, the false negative rate (Type II error) is 1%.

LOQ: The Limit of Quantitation is the minimum level, concentration, or quantity of a target variable (e.g., target analyte) that can be reported with a specified degree of confidence. This term is further clarified within the DoD QSM 4.1 as the lowest concentration that produces a quantitative result within specified limits of precision and bias.

*****: An exceeding quality control criteria is associated with the reported result.

B: The presence of a "B" to the right of an analytical value indicates that this compound was also detected in the method blank and the data should be interpreted with caution. One should consider the possibility that the correct sample result might be less than the reported result and, perhaps, zero. **For Florida DEP reports this qualifier is "V".**

D: When a sample (or sample extract) is rerun diluted because one of the compound concentrations exceeded the highest concentration range for the standard curve, all of the values obtained in the dilution run will be flagged with a "D".

E: The concentration for any compound found which exceeds the highest concentration level on the standard curve for that compound will be flagged with an "E". Usually the sample will be rerun at a dilution to quantitate the flagged compound. **For Florida DEP reports this qualifier is "L".**

H1: The result was analyzed outside of the EPA recommended holding time.

H2: The result was extracted outside of the EPA recommended holding time.

H3: The sample for this analyte was received outside of the EPA recommended holding time.

J: The presence of a "J" to the right of an analytical result indicates that the reported result is estimated. The mass spectral data pass the identification criteria showing that the compound is present, but the calculated result is less than the EQL. One should feel confident that the result is greater than zero and less than the EQL. **For Florida DEP reports this qualifier is "I".**

M: Indicates that the sample matrix interfered with the quantitation of the analyte. In dual column analysis the result is reported from the column with the lower concentration. In inorganics, it indicates that the parameters MDL/RL has been raised.

N: The MS/MSD accuracy and/or precision are outside criteria. The predigested spike recovery is not within control limits for the associated parameter.

P: The associated numerical value is an estimated quantity. There is greater than a 40% difference between the two GC columns for the detected concentrations. The higher of the two values is reported unless matrix interference is obvious or for HPLC analysis where the primary column is reported.

Q: The RPD and/or percent recovery exceeded limits in the associated Blank Spike and/or Blank Spike Duplicate.

S: The associated internal standard failed criteria.

U: The presence of a "U" indicates that the analyte was analyzed for but was not detected or the concentration of the analyte quantitated below the DL.

X: The parameter shows a potential positive bias on a reported concentration due to an ICV or CCV exceeding the upper control limit on the high side.

Y: The parameter shows a potential negative bias on a reported concentration due to an ICV or CCV exceeding the lower control limit on the low side.

Z: The parameter shows lack of confirmation/detection, which may be due to a negative bias in the ICV or CCV which exceeds the lower control limit.

LIMS Definitions / Naming Conventions:
The following are general naming conventions that are used throughout the laboratory; however, on a method by method basis, there are additional QAQC items that are named in a consistent format.

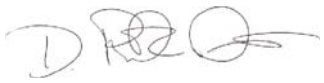
BLK: LIMS assigns a unique identifier to the Method Blank by naming it as the letters BLK appended to the Batch ID. A Method Blank is an analyte-free matrix to which all reagents are added in the same volumes or proportions as used in sample processing. The Method Blank is used to assess for possible contamination during preparation and/or analysis steps. Method Blanks within a Batch or Analytical sequence will be appended with a numerical value beginning with 1 that will increase incrementally.

BS: LIMS assigns a unique identifier to the Blank Spike by naming it as the letters BS appended to the Batch ID. The Blank Spike or Lab Control Sample is a controlled analyte-free matrix, which is spiked with known and verified concentrations of target analytes. Spiking concentrations can be referenced in the method SOP. The BS is used to evaluate the viability of analytes taken through the entire prep (when applicable) and analytical process. Blank Spikes within a Batch or Analytical sequence will be appended with a numerical value beginning with 1 that will increase incrementally. A duplicate Blank Spike will be designated as a BSD.

MS: The LIMS assigns each Client sample with a unique identifier. The Matrix Spike is designated with a MS at the end of the sample's unique identifier. The Matrix Spike sample is used to assess the effect of the sample matrix on the precision and accuracy of the results generated using the selected method. A duplicate Matrix Spike will be designated as a MSD.

IDs: The LIMS assigns each Client sample with a unique identifier. The letter "RE" may potentially be appended to the end of the LIMS Sample ID. And "**RE"** implies that the sample was either re-prepped, re-analyzed straight, or re-analyzed at a dilution. Subsequent re-analysis for the sample will be appended with a numerical value beginning with 1 that will increase incrementally. Eg: RE1, RE2, RE3, etc.

Statement of Data Authenticity:
I certify that, based upon my inquiry of those individuals immediately responsible for obtaining the information and to the best of my knowledge, the data package is in compliance with the terms and conditions of the contract, both technically and for completeness, with the exception of the conditions detailed in this Case Narrative, as verified by my signature below. During absences, Ms. Marcia K. McGinnity is authorized to sign this Statement of Data Authenticity.



Mr. Rick D. Davis
Laboratory Technical Director / VP Operations

ORGANIC CALCULATIONS

GC/MS Volatiles

$$\text{Final Concentration} = \frac{\text{On-column(ug/L or ug/Kg) * Expected Vol/Weight (mL or g) * Dilution}}{\text{Initial Vol/Weight (mL or g) * (Percent Solids/100) (if applicable)}}$$

Note - Expected Vol/Weight value is found in "Final Vol" column of Preparation Batch Summary.

GC/MS Extractables

$$\text{Final Concentration} = \frac{\text{On-column(ng/uL) * Final Vol (ml) * Dilution *(1000uL/mL)}}{\text{Initial Vol/Weight (mL or g) * (Percent Solids/100) (if applicable)}}$$

= ng/mL or ng/g

= ug/L or ug/kg

GC or LC Extractables

$$\text{Final Concentration} = \frac{\text{On-column(ng/mL) * Final Vol (mL) * Dilution}}{\text{Initial Vol/Weight (mL or g) * (Percent Solids/100) (if applicable)}}$$

= ng/mL or ng/g

= ug/L or ug/kg

Sample Receipt Information

TETRA TECH NUS, INC. CHAIN OF CUSTODY | NUMBER № 2302 | PAGE ____ OF _____

PROJECT NO:	FACILITY:	PROJECT MANAGER	PHONE NUMBER	LABORATORY NAME AND CONTACT:
1126-03309	FLC Sites 4+5	B. Marshall	9047304669	Empirical, B. Richard
SAMPLERS (SIGNATURE)		FIELD OPERATIONS LEADER: K. Weidart	PHONE NUMBER	ADDRESS: 621 Mainstream Dr., Ste 270
		CARRIER/WAYBILL NUMBER: FED-EX		CITY, STATE: Nashville, TN

STANDARD TAT ☒
RUSH TAT ☐
☐ 24 hr. ☐ 48 hr. ☐ 72 hr. ☐ 7 day ☐ 14 day

CONTAINER TYPE PLASTIC (P) or GLASS (G)
PRESERVATIVE USED
TYPE OF ANALYSIS

DATE YEAR 9/22/11	TIME	SAMPLE ID	LOCATION ID	TOP DEPTH (FT)	BOTTOM DEPTH (FT)	MATRIX (GW, SO, SW, SD, QC, ETC.)	COLLECTION METHOD GRAB (G) COMP (C)	No. OF CONTAINERS	VOCs	SVOC (include PAHs), PCBs	Metals, FLPRO	Dioxins/Furans	VOCs	SVOCs (include PAHs), PCBs	Metals, FLPRO	Dioxins/Furans 1,4 Dioxane	COMMENTS
-01	08:45	FLC-4-SS01-0006-092211				SO	G		3	1	1						
-02	09:00	FLC-4-SS01-0624-092211				SO	G		9	3	3						MS/MSD collected
-03	09:25	FLC-4-SB01-0204-092211				SO	G		3	1	1						
-04	10:05	FLC-4-SS02-0006-092211				SO	G		3	1	1						
-05	10:20	FLC-4-SS02-0624-092211				SO	G		3	1	1						
-06	10:30	FLC-4-SB02-0204-092211				SO	G		3	1	1						
-07	10:45	FLC-4-SSC-0006-092211				SO	C					2					
-08	10:50	FLC-4-SSC-0624-092211				SO	C					4					MS/MSD collected
-09	10:55	FLC-4-SBC-0204-092211				SO	C					2					
-10	11:15	FLC-4-RB01-092211				QC	G		3				3	2	1	1	2 2 2 Rinsate

1. RELINQUISHED BY	DATE	TIME	1. RECEIVED BY	DATE	TIME
	9-23-11	15:00			
2. RELINQUISHED BY	DATE	TIME	2. RECEIVED BY	DATE	TIME
3. RELINQUISHED BY	DATE	TIME	3. RECEIVED BY	DATE	TIME

COMMENTS

DISTRIBUTION: WHITE (ACCOMPANIES SAMPLE) YELLOW (FIELD COPY) PINK (FILE COPY)

4/02R
FORM NO. TtNUS-001

Cooler Received/Opened On_ 09/24/11 @ 09:00

1. Tracking #_____8525_____(last 4 digits, FedEx)

Courier: ___Hand Delivery FedEx

2. Temperature of rep. sample ~~or temp~~ blank when opened: 0.5 *Degrees Celsius + correction factor 1.6* = 2.1

3. If Item #2 temperature is 0°C or less, was the representative sample or temp blank frozen? YES NO..NA

4. Were custody seals on outside of cooler? YES..NO...NA

If yes, how many and where: Front & back

5. Were the seals intact, signed, and dated correctly? YES..NO...NA

6. Were custody papers inside cooler? YES...NO...NA

I certify that I opened the cooler and answered questions 1-6 (intial) RT

7. Were custody seals on containers: YES NO and Intact YES..NO..NA

Were these signed and dated correctly? YES...NO...NA

8. Packing mat'l used? Bubble wrap Plastic bag Peanuts Vermiculite Foam Insert Paper Other None

9. Cooling process: Ice Ice-pack Ice (direct contact) Dry ice Other None

10. Did all containers arrive in good condition (unbroken)? YES...NO...NA

11. Were all container labels complete (#, date, signed, pres., etc)? YES...NO...NA

12. Did all container labels and tags agree with custody papers? YES...NO...NA

13a. Were VOA vials received? YES...NO...NA

b. Was there any observable headspace present in any VOA vial? YES...NO...NA

14. Was there a Trip Blank in this cooler? YES..NO...NA If multiple coolers, sequence #_____

I certify that I unloaded the cooler and answered questions 7-14 (intial) RT

15a. On pres'd bottles, did pH test strips suggest preservation reached the correct pH level? YES..NO..NA

b. Did the bottle labels indicate that the correct preservatives were used YES...NO...NA

16. Was residual chlorine present? YES...NO...NA

I certify that I checked for chlorine and pH as per SOP and answered questions 15-16 (intial) RT

17. Were custody papers properly filled out (ink, signed, etc)? YES...NO...NA

18. Did you sign the custody papers in the appropriate place? YES...NO...NA

19. Were correct containers used for the analysis requested? YES...NO...NA

20. Was sufficient amount of sample sent in each container? YES...NO...NA

I certify that I entered this project into LIMS and answered questions 17-20 (intial) RT

I certify that I attached a label with the unique LIMS number to each container (intial) RT

21. Were there Non-Conformance issues at login? YES...NO Was a NCR generated? YES...NO...#_____

Additional Details:

Cooler Received/Opened On_ 09/24/11 @ 09:00

1. Tracking #_____8634_____(last 4 digits, FedEx)

Courier: ___Hand Delivery FedEx

2. Temperature of rep. sample ~~or temp~~ blank when opened: 1.1 *Degrees Celsius + correction factor 1.6* = 2.7

3. If Item #2 temperature is 0°C or less, was the representative sample or temp blank frozen? YES ...NO...NA

4. Were custody seals on outside of cooler? YES...NO...NA

If yes, how many and where: Front & back

5. Were the seals intact, signed, and dated correctly? YES...NO...NA

6. Were custody papers inside cooler? YES...NO...NA

I certify that I opened the cooler and answered questions 1-6 (intial) _____

7. Were custody seals on containers: YES NO and Intact YES...NO...NA

Were these signed and dated correctly? YES...NO...NA

8. Packing mat'l used? Bubble wrap Plastic bag Peanuts Vermiculite Foam Insert Paper Other None

9. Cooling process: Ice Ice-pack Ice (direct contact) Dry ice Other None

10. Did all containers arrive in good condition (unbroken)? YES...NO...NA

11. Were all container labels complete (#, date, signed, pres., etc)? YES...NO...NA

12. Did all container labels and tags agree with custody papers? YES...NO...NA

13a. Were VOA vials received? YES...NO...NA

b. Was there any observable headspace present in any VOA vial? YES...NO...NA

14. Was there a Trip Blank in this cooler? YES...NO...NA If multiple coolers, sequence #_____

I certify that I unloaded the cooler and answered questions 7-14 (intial) _____

15a. On pres'd bottles, did pH test strips suggest preservation reached the correct pH level? YES...NO...NA

b. Did the bottle labels indicate that the correct preservatives were used YES...NO...NA

16. Was residual chlorine present? YES...NO...NA

I certify that I checked for chlorine and pH as per SOP and answered questions 15-16 (intial) _____

17. Were custody papers properly filled out (ink, signed, etc)? YES...NO...NA

18. Did you sign the custody papers in the appropriate place? YES...NO...NA

19. Were correct containers used for the analysis requested? YES...NO...NA

20. Was sufficient amount of sample sent in each container? YES...NO...NA

I certify that I entered this project into LIMS and answered questions 17-20 (intial) _____

I certify that I attached a label with the unique LIMS number to each container (intial) _____

21. Were there Non-Conformance issues at login? YES...NO Was a NCR generated? YES...NO...#_____

Additional Details:

Cooler Received/Opened On_ 09/24/11 @ 09:00

1. Tracking #_____8689_____(last 4 digits, FedEx)

Courier: ___Hand Delivery FedEx

2. Temperature of rep. sample ~~or temp~~ blank when opened: 1.2 *Degrees Celsius + correction factor 1.6* = 38

3. If Item #2 temperature is 0°C or less, was the representative sample or temp blank frozen? YES NO..NA

4. Were custody seals on outside of cooler? YES..NO...NA

If yes, how many and where: Front & back

5. Were the seals intact, signed, and dated correctly? YES..NO...NA

6. Were custody papers inside cooler? YES...NO...NA

I certify that I opened the cooler and answered questions 1-6 (intial) RT

7. Were custody seals on containers: YES NO and Intact YES..NO..NA

Were these signed and dated correctly? YES...NO...NA

8. Packing mat'l used? Bubble wrap Plastic bag Peanuts Vermiculite Foam Insert Paper Other None

9. Cooling process: Ice Ice-pack Ice (direct contact) Dry ice Other None

10. Did all containers arrive in good condition (unbroken)? YES...NO...NA

11. Were all container labels complete (#, date, signed, pres., etc)? YES...NO...NA

12. Did all container labels and tags agree with custody papers? YES...NO...NA

13a. Were VOA vials received? YES...NO...NA

b. Was there any observable headspace present in any VOA vial? YES..NO..NA

14. Was there a Trip Blank in this cooler? YES..NO...NA If multiple coolers, sequence #_____

I certify that I unloaded the cooler and answered questions 7-14 (intial) RT

15a. On pres'd bottles, did pH test strips suggest preservation reached the correct pH level? YES..NO..NA

b. Did the bottle labels indicate that the correct preservatives were used YES...NO...NA

16. Was residual chlorine present? YES...NO...NA

I certify that I checked for chlorine and pH as per SOP and answered questions 15-16 (intial) RT

17. Were custody papers properly filled out (ink, signed, etc)? YES..NO...NA

18. Did you sign the custody papers in the appropriate place? YES..NO...NA

19. Were correct containers used for the analysis requested? YES..NO...NA

20. Was sufficient amount of sample sent in each container? YES..NO...NA

I certify that I entered this project into LIMS and answered questions 17-20 (intial) RT

I certify that I attached a label with the unique LIMS number to each container (intial) RT

21. Were there Non-Conformance issues at login? YES..NO Was a NCR generated? YES...NO..#_____

Additional Details:

Cooler Received/Opened On_ 09/24/11 @ 09:00

1. Tracking #_____8222_____(last 4 digits, FedEx)

Courier: ___Hand Delivery FedEx

2. Temperature of rep. sample ~~or temp~~ blank when opened: 1.7 *Degrees Celsius + correction factor 1.6* = 3.3

3. If Item #2 temperature is 0°C or less, was the representative sample or temp blank frozen? YES (NO)..NA

4. Were custody seals on outside of cooler? (YES)..NO...NA

If yes, how many and where: Front & back

5. Were the seals intact, signed, and dated correctly? (YES)..NO...NA

6. Were custody papers inside cooler? (YES)...NO...NA

I certify that I opened the cooler and answered questions 1-6 (intial) RT

7. Were custody seals on containers: YES NO and Intact YES..(NO)..NA

Were these signed and dated correctly? YES...NO...(NA)

8. Packing mat'l used? (Bubble wrap) (Plastic bag) Peanuts Vermiculite Foam Insert Paper Other None

9. Cooling process: (Ice) Ice-pack Ice (direct contact) Dry ice Other None

10. Did all containers arrive in good condition (unbroken)? (YES)...NO...NA

11. Were all container labels complete (#, date, signed, pres., etc)? (YES)...NO...NA

12. Did all container labels and tags agree with custody papers? (YES)...NO...NA

13a. Were VOA vials received? (YES)...NO...NA

b. Was there any observable headspace present in any VOA vial? YES..(NO)..NA

14. Was there a Trip Blank in this cooler? (YES)..NO...NA If multiple coolers, sequence #_____

I certify that I unloaded the cooler and answered questions 7-14 (intial) RT

15a. On pres'd bottles, did pH test strips suggest preservation reached the correct pH level? YES..NO..(NA)

b. Did the bottle labels indicate that the correct preservatives were used YES...NO..(NA)

16. Was residual chlorine present? YES...NO..(NA)

I certify that I checked for chlorine and pH as per SOP and answered questions 15-16 (intial) RT

17. Were custody papers properly filled out (ink, signed, etc)? (YES)..NO...NA

18. Did you sign the custody papers in the appropriate place? (YES)..NO...NA

19. Were correct containers used for the analysis requested? (YES)..NO...NA

20. Was sufficient amount of sample sent in each container? (YES)..NO...NA

I certify that I entered this project into LIMS and answered questions 17-20 (intial) RT

I certify that I attached a label with the unique LIMS number to each container (intial) RT

21. Were there Non-Conformance issues at login? YES..(NO) Was a NCR generated? YES...(NO)..#_____

Additional Details:

SUBCONTRACT ORDER

Empirical Laboratories, LLC

1109191

SENDING LABORATORY:

Empirical Laboratories, LLC
621 Mainstream Drive, Suite 270
Nashville, TN 37228
Phone: 615.345.1115
Fax: 866.417.0548
Project Manager: Brian Richard

RECEIVING LABORATORY:

Cape Fear Analytical
3306 Kitty Hawk Road, Suite 120
Wilmington, NC 28405
Phone :(919) 552-2127
Fax: 919-52-2127

Analysis	Due	Expires	Laboratory ID	Comments
Sample ID: FLC-4-SSC-0006-092211				
Reference No: 1109191-07	**Solid**	**Sampled:09/22/2011 10:45**		
SUB_DIOXINS_8290	10/12/2011 14:00	10/22/2011 10:45		
Containers Supplied:				
Sample ID: FLC-4-SSC-0624-092211				
Reference No: 1109191-08	**Solid**	**Sampled:09/22/2011 10:50**		
SUB_DIOXINS_8290	10/12/2011 14:00	10/22/2011 10:50		
Containers Supplied:				
Sample ID: FLC-4-SBC-0204-092211				
Reference No: 1109191-09	**Solid**	**Sampled:09/22/2011 10:55**		
SUB_DIOXINS_8290	10/12/2011 14:00	10/22/2011 10:55		
Containers Supplied:				
Sample ID: FLC-4-RB01-092211				
Reference No: 1109191-10	**Water**	**Sampled:09/22/2011 11:15**		
SUB_DIOXINS_8290	10/12/2011 14:00	10/22/2011 11:15		
Containers Supplied:				

Released By	Date	Received By	Date

Released By	Date	Received By	Date

SUBCONTRACT ORDER

Empirical Laboratories, LLC

1109191

SENDING LABORATORY:

Empirical Laboratories, LLC
621 Mainstream Drive, Suite 270
Nashville, TN 37228
Phone: 615.345.1115
Fax: 866.417.0548
Project Manager: Brian Richard

RECEIVING LABORATORY:

Environmental Conservation Laboratories, Inc (SUB)
10775 Central Port Drive
Orlando, FL 32824
Phone :(404) 826-5314
Fax: (404) 850-6945

Analysis	Due	Expires	Laboratory ID	Comments
Sample ID: FLC-4-RB01-092211				
Reference No: 1109191-10	**Water**	**Sampled:09/22/2011 11:15**		
SUB_SPECIALTY	10/12/2011 14:00	03/20/2012 11:15		1,4-Dioxane
Containers Supplied:				

Released By	Date	Received By	Date

Released By	Date	Received By	Date

WORK ORDER

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Printed: 10/29/2011 7:55:40AM

Empirical Laboratories, LLC

Client: Tetra Tech NUS, Inc. (T010)
Project: Navy Fuel Depot CTO JM46

Project Manager: Brian Richard
Project Number: Navy Fuel Depot CTO JM46

Report To:
Tetra Tech NUS, Inc. (T010)
Accounts Payable
661 Andersen Drive
Pittsburgh, PA 15220-2745
Phone: (412) 921-8182
Fax: (412) 921-4040

Invoice To:
Tetra Tech NUS, Inc. (T010)
Accounts Payable
661 Andersen Drive
Pittsburgh, PA 15220-2745
Phone :(412) 921-8182
Fax: (412) 921-4040

Date Due: 10/12/2011 16:00 (12 day TAT)

Received By: Reginald Talley
Logged In By: Reginald Talley

Date Received: 09/24/2011 09:00
Date Logged In 09/24/2011 12:35

Samples Received at: **2.1°C**

Custody Seals	Yes	Received On Ice	Yes
Containers Intact	Yes		
COC/Labels Agree	Yes		
Preservation Confir	Yes		

Analysis	Due	TAT	Expires	Version	Comments
1109191-01 FLC-4-SS01-0006-092211 [Solid] Sampled 09/22/2011 08:45 Central					
SM2540B	10/12/2011 14:00	10	09/29/2011 08:45		
SW6010C	10/12/2011 14:00	10	03/20/2012 08:45		
FLPRO	10/05/2011 14:00	10	10/06/2011 08:45		potential high conc - special prep
SW8082A	10/12/2011 14:00	10	10/06/2011 08:45		
SW8270C	10/12/2011 14:00	10	10/06/2011 08:45		potential high conc - special prep
SW7471A	10/12/2011 14:00	10	10/20/2011 08:45		
SW8260B	10/12/2011 14:00	10	10/06/2011 08:45		
SW8270C	10/12/2011 14:00	10	10/06/2011 08:45		Analyze with regular SVOCs if high PRO concentrations!

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WORK ORDER

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Empirical Laboratories, LLC

Client: Tetra Tech NUS, Inc. (T010)
Project: Navy Fuel Depot CTO JM46

Project Manager: Brian Richard
Project Number: Navy Fuel Depot CTO JM46

Analysis	Due	TAT	Expires	Version	Comments
1109191-02 FLC-4-SS01-0624-092211 [Solid] Sampled 09/22/2011 09:00 Central					**MS/MSD**
FLPRO	10/05/2011 14:00	10	10/06/2011 09:00		potential high conc - special prep / MS/MSD
SM2540B	10/12/2011 14:00	10	09/29/2011 09:00		MS/MSD
SW8260B	10/12/2011 14:00	10	10/06/2011 09:00		MS/MSD
SW8270C	10/12/2011 14:00	10	10/06/2011 09:00		Analyze with regular SVOCs if high PRO concentrations!
SW8270C	10/12/2011 14:00	10	10/06/2011 09:00		potential high conc - special prep,MS/MSD
SW8082A	10/12/2011 14:00	10	10/06/2011 09:00		MS/MSD
SW6010C	10/12/2011 14:00	10	03/20/2012 09:00		MS/MSD
SW7471A	10/12/2011 14:00	10	10/20/2011 09:00		MS/MSD
1109191-03 FLC-4-SB01-0204-092211 [Solid] Sampled 09/22/2011 09:25 Central					
SW8270C	10/12/2011 14:00	10	10/06/2011 09:25		Analyze with regular SVOCs if high PRO concentrations!
SW7471A	10/12/2011 14:00	10	10/20/2011 09:25		
SW6010C	10/12/2011 14:00	10	03/20/2012 09:25		
FLPRO	10/05/2011 14:00	10	10/06/2011 09:25		potential high conc - special prep
SW8082A	10/12/2011 14:00	10	10/06/2011 09:25		
SW8260B	10/12/2011 14:00	10	10/06/2011 09:25		
SM2540B	10/12/2011 14:00	10	09/29/2011 09:25		
SW8270C	10/12/2011 14:00	10	10/06/2011 09:25		potential high conc - special prep

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Empirical Laboratories, LLC

Client: Tetra Tech NUS, Inc. (T010)
Project: Navy Fuel Depot CTO JM46

Project Manager: Brian Richard
Project Number: Navy Fuel Depot CTO JM46

Analysis	Due	TAT	Expires	Version	Comments
1109191-04 FLC-4-SS02-0006-092211 [Solid] Sampled 09/22/2011 10:05 Central					
SW8270C	10/12/2011 14:00	10	10/06/2011 10:05		Analyze with regular SVOCs if high PRO concentrations!
SW8260B	10/12/2011 14:00	10	10/06/2011 10:05		report both (matrix)-ADM
SM2540B	10/12/2011 14:00	10	09/29/2011 10:05		
SW8270C	10/12/2011 14:00	10	10/06/2011 10:05		potential high conc - special prep
SW7471A	10/12/2011 14:00	10	10/20/2011 10:05		
SW6010C	10/12/2011 14:00	10	03/20/2012 10:05		
FLPRO	10/05/2011 14:00	10	10/06/2011 10:05		potential high conc - special prep
SW8082A	10/12/2011 14:00	10	10/06/2011 10:05		
1109191-05 FLC-4-SS02-0624-092211 [Solid] Sampled 09/22/2011 10:20 Central					
SW8270C	10/12/2011 14:00	10	10/06/2011 10:20		Analyze with regular SVOCs if high PRO concentrations!
SW8260B	10/12/2011 14:00	10	10/06/2011 10:20		
SW8082A	10/12/2011 14:00	10	10/06/2011 10:20		
FLPRO	10/05/2011 14:00	10	10/06/2011 10:20		potential high conc - special prep
SW6010C	10/12/2011 14:00	10	03/20/2012 10:20		
SW7471A	10/12/2011 14:00	10	10/20/2011 10:20		
SW8270C	10/12/2011 14:00	10	10/06/2011 10:20		potential high conc - special prep
SM2540B	10/12/2011 14:00	10	09/29/2011 10:20		

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Empirical Laboratories, LLC

Client: Tetra Tech NUS, Inc. (T010)
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Project Manager: Brian Richard
Project Number: Navy Fuel Depot CTO JM46

Analysis	Due	TAT	Expires	Version	Comments
1109191-06 FLC-4-SB02-0204-092211 [Solid] Sampled 09/22/2011 10:30 Central					
SM2540B	10/12/2011 14:00	10	09/29/2011 10:30		
SW7471A	10/12/2011 14:00	10	10/20/2011 10:30		
SW6010C	10/12/2011 14:00	10	03/20/2012 10:30		
FLPRO	10/05/2011 14:00	10	10/06/2011 10:30		potential high conc - special prep
SW8082A	10/12/2011 14:00	10	10/06/2011 10:30		
SW8270C	10/12/2011 14:00	10	10/06/2011 10:30		potential high conc - special prep
SW8270C	10/12/2011 14:00	10	10/06/2011 10:30		Analyze with regular SVOCs if high PRO concentrations!
SW8260B	10/12/2011 14:00	10	10/06/2011 10:30		
1109191-10 FLC-4-RB01-092211 [Water] Sampled 09/22/2011 11:15 Central					
SW6010C	10/12/2011 14:00	10	03/20/2012 11:15		
SW8260B	10/12/2011 14:00	10	10/06/2011 11:15		
SW7470A	10/12/2011 14:00	10	10/20/2011 11:15		
FLPRO	10/05/2011 14:00	10	09/29/2011 11:15		
SW8082A	10/12/2011 14:00	10	09/29/2011 11:15		
SW8270C	10/12/2011 14:00	10	09/29/2011 11:15		LOD 0.1ug/L in Target!
SW8270C	10/07/2011 14:00	10	09/29/2011 11:15		HCBD_PCP_PAHs for waters!
SW8270C (Cancelled)	10/12/2011 14:00	10	09/29/2011 11:15		Replaced with SMS_BNA_8270C_LOW_3510C 10/5/11 BKR/MKM

Cape Fear Analytical

1109191-07 FLC-4-SSC-0006-092211 [Solid] Sampled 09/22/2011 10:45 Central					
SW8290	10/12/2011 14:00	10	10/22/2011 10:45		
1109191-08 FLC-4-SSC-0624-092211 [Solid] Sampled 09/22/2011 10:50 Central					
SW8290	10/12/2011 14:00	10	10/22/2011 10:50		

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WORK ORDER

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Printed: 10/29/2011 7:55:40AM

Empirical Laboratories, LLC

Client: Tetra Tech NUS, Inc. (T010)
Project: Navy Fuel Depot CTO JM46

Project Manager: Brian Richard
Project Number: Navy Fuel Depot CTO JM46

Analysis	Due	TAT	Expires	Version	Comments
Cape Fear Analytical					
1109191-09 FLC-4-SBC-0204-092211 [Solid] Sampled 09/22/2011 10:55 Central					
SW8290	10/12/2011 14:00	10	10/22/2011 10:55		
1109191-10 FLC-4-RB01-092211 [Water] Sampled 09/22/2011 11:15 Central					
SW8290	10/12/2011 14:00	10	10/22/2011 11:15		
Environmental Conservation Laboratories, Inc (SUB)					
1109191-10 FLC-4-RB01-092211 [Water] Sampled 09/22/2011 11:15 Central					
SUB_SPECIALTY	10/12/2011 14:00	10	03/20/2012 11:15		1,4-Dioxane

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Sample Delivery Group Assignment Form

CLIENT: Tetra Tech NUS, Inc. (T010)
PROJECT NAME: Navy Fuel Depot CTO JM46
SDG #: 1109191
MATRIX: Water

QC LEVEL: Level IV
Report Due: 10/12/2011 - 10/12/2011
Client Sample Count: 10

Sample Type	Sampled	Received	Lab ID	Client ID	FLPRO	SM2540B	SUB_SPECIALTY	SW6010C	SW7470A
Client Sample	9/22/2011	9/24/2011	1109191-01	FLC-4-SS01-0006-092211	X	X		X	
Client Sample	9/22/2011	9/24/2011	1109191-02	FLC-4-SS01-0624-092211	MS/MSD	MS/MSD		MS/MSD	
Client Sample	9/22/2011	9/24/2011	1109191-03	FLC-4-SB01-0204-092211	X	X		X	
Client Sample	9/22/2011	9/24/2011	1109191-04	FLC-4-SS02-0006-092211	X	X		X	
Client Sample	9/22/2011	9/24/2011	1109191-05	FLC-4-SS02-0624-092211	X	X		X	
Client Sample	9/22/2011	9/24/2011	1109191-06	FLC-4-SB02-0204-092211	X	X		X	
Client Sample	9/22/2011	9/24/2011	1109191-07	FLC-4-SSC-0006-092211					
Client Sample	9/22/2011	9/24/2011	1109191-08	FLC-4-SSC-0624-092211					
Client Sample	9/22/2011	9/24/2011	1109191-09	FLC-4-SBC-0204-092211					
Client Sample	9/22/2011	9/24/2011	1109191-10	FLC-4-RB01-092211	X		X	X	X

Sample Type	Sampled	Received	Lab ID	Client ID	SW7471A	SW8082A	SW8260B	SW8270C	SW8290
Client Sample	9/22/2011	9/24/2011	1109191-01	FLC-4-SS01-0006-092211	X	X	X	X	
Client Sample	9/22/2011	9/24/2011	1109191-02	FLC-4-SS01-0624-092211	MS/MSD	MS/MSD	MS/MSD	MS/MSD	
Client Sample	9/22/2011	9/24/2011	1109191-03	FLC-4-SB01-0204-092211	X	X	X	X	
Client Sample	9/22/2011	9/24/2011	1109191-04	FLC-4-SS02-0006-092211	X	X	X	X	
Client Sample	9/22/2011	9/24/2011	1109191-05	FLC-4-SS02-0624-092211	X	X	X	X	
Client Sample	9/22/2011	9/24/2011	1109191-06	FLC-4-SB02-0204-092211	X	X	X	X	
Client Sample	9/22/2011	9/24/2011	1109191-07	FLC-4-SSC-0006-092211					X
Client Sample	9/22/2011	9/24/2011	1109191-08	FLC-4-SSC-0624-092211					X
Client Sample	9/22/2011	9/24/2011	1109191-09	FLC-4-SBC-0204-092211					X
Client Sample	9/22/2011	9/24/2011	1109191-10	FLC-4-RB01-092211		X	X	X	X

Data for SW8260B Forms

ANALYSIS DATA SHEET

FLC-4-SS01-0006-092211

Laboratory:	Empirical Laboratories, LLC			SDG:	1109191
Client:	Tetra Tech NUS, Inc. (T010)			Project:	Navy Fuel Depot CTO JM46
Matrix:	Soil	Laboratory ID:	1109191-01	File ID:	0919101.D
Sampled:	09/22/11 08:45	Prepared:	09/27/11 00:00	Analyzed:	09/27/11 10:54
Solids:	97.94	Preparation:	5035	Dilution:	1
Batch:	1I27005	Sequence:	1I27024	Calibration:	1266001
Instrument:	MS-VOA5				

CAS NO.	COMPOUND	CONC. (ug/Kg dry)	DL	LOD	LOQ	Q
67-64-1	Acetone		13.3	26.6	53.2	U
71-43-2	Benzene	1.75	1.33	2.66	5.32	I
74-97-5	Bromochloromethane		1.33	2.66	5.32	U
75-27-4	Bromodichloromethane		1.33	2.66	5.32	U
75-25-2	Bromoform		1.33	2.66	5.32	U
74-83-9	Bromomethane		2.66	5.32	10.6	X, U
78-93-3	2-Butanone	3.54	2.66	5.32	10.6	I
75-15-0	Carbon disulfide		1.33	2.66	5.32	U
56-23-5	Carbon tetrachloride		1.33	2.66	5.32	U
108-90-7	Chlorobenzene		1.33	2.66	5.32	U
75-00-3	Chloroethane		2.66	5.32	10.6	U
67-66-3	Chloroform		1.33	2.66	5.32	U
74-87-3	Chloromethane		2.66	5.32	10.6	U
110-82-7	Cyclohexane		1.33	2.66	5.32	U
124-48-1	Dibromochloromethane		1.33	2.66	5.32	U
96-12-8	1,2-Dibromo-3-chloropropane		2.66	5.32	10.6	U
106-93-4	1,2-Dibromoethane (EDB)		1.33	2.66	5.32	U
95-50-1	1,2-Dichlorobenzene		1.33	2.66	5.32	U
541-73-1	1,3-Dichlorobenzene		1.33	2.66	5.32	U
106-46-7	1,4-Dichlorobenzene		1.33	2.66	5.32	U
75-71-8	Dichlorodifluoromethane		2.66	5.32	10.6	U
75-34-3	1,1-Dichloroethane		1.33	2.66	5.32	U
107-06-2	1,2-Dichloroethane		1.33	2.66	5.32	U
75-35-4	1,1-Dichloroethene		1.33	2.66	5.32	U
156-59-2	cis-1,2-Dichloroethene		1.33	2.66	5.32	U
156-60-5	trans-1,2-Dichloroethene		1.33	2.66	5.32	U
78-87-5	1,2-Dichloropropane		1.33	2.66	5.32	U
10061-01-5	cis-1,3-Dichloropropene		1.33	2.66	5.32	U
10061-02-6	trans-1,3-Dichloropropene		1.33	2.66	5.32	U
123-91-1	1,4-Dioxane		53.2	106	213	U
100-41-4	Ethylbenzene	1.73	1.33	2.66	5.32	I
591-78-6	2-Hexanone		2.66	5.32	10.6	U
98-82-8	Isopropylbenzene		1.33	2.66	5.32	U
75-09-2	Methylene chloride	7.39	1.33	2.66	5.32	
79-20-9	Methyl Acetate		2.66	5.32	10.6	U
108-87-2	Methylcyclohexane		1.33	2.66	5.32	U
108-10-1	4-Methyl-2-pentanone		2.66	5.32	10.6	U
1634-04-4	Methyl t-Butyl Ether		1.33	2.66	5.32	Y, U
100-42-5	Styrene		1.33	2.66	5.32	U

ANALYSIS DATA SHEET

FLC-4-SS01-0006-092211

Laboratory:	Empirical Laboratories, LLC			SDG:	1109191
Client:	Tetra Tech NUS, Inc. (T010)			Project:	Navy Fuel Depot CTO JM46
Matrix:	Soil	Laboratory ID:	1109191-01	File ID:	0919101.D
Sampled:	09/22/11 08:45	Prepared:	09/27/11 00:00	Analyzed:	09/27/11 10:54
Solids:	97.94	Preparation:	5035	Dilution:	1

Batch: 1I27005 Sequence: 1I27024 Calibration: 1266001 Instrument: MS-VOA5

CAS NO.	COMPOUND	CONC. (ug/Kg dry)	DL	LOD	LOQ	Q
79-34-5	1,1,2,2-Tetrachloroethane		1.33	2.66	5.32	U
630-20-6	1,1,1,2-Tetrachloroethane		1.33	2.66	5.32	U
127-18-4	Tetrachloroethene		1.33	2.66	5.32	U
108-88-3	Toluene	4.20	1.33	2.66	5.32	I
87-61-6	1,2,3-Trichlorobenzene		1.33	2.66	5.32	U
120-82-1	1,2,4-Trichlorobenzene		1.33	2.66	5.32	U
79-00-5	1,1,2-Trichloroethane		1.33	2.66	5.32	U
71-55-6	1,1,1-Trichloroethane		1.33	2.66	5.32	U
79-01-6	Trichloroethene		1.33	2.66	5.32	U
75-69-4	Trichlorofluoromethane		2.66	5.32	10.6	U
76-13-1	1,1,2-Trichloro-1,2,2-trifluoroethane		2.66	5.32	10.6	U
75-01-4	Vinyl chloride		2.66	5.32	10.6	U
108-38-3/106-42-	m,p-Xylene	3.34	2.66	5.32	10.6	I
95-47-6	o-Xylene		1.33	2.66	5.32	U

SYSTEM MONITORING COMPOUND	ADDED (ug/Kg dry)	CONC (ug/Kg dry)	% REC	QC LIMITS	Q
Bromofluorobenzene	31.91	31.44	98.5	85 - 120	
Dibromofluoromethane	31.91	35.58	112	80 - 125	
1,2-Dichloroethane-d4	31.91	35.17	110	75 - 140	
Toluene-d8	31.91	33.38	105	85 - 115	

ANALYSIS DATA SHEET

FLC-4-SS01-0624-092211

Laboratory:	Empirical Laboratories, LLC			SDG:	1109191
Client:	Tetra Tech NUS, Inc. (T010)			Project:	Navy Fuel Depot CTO JM46
Matrix:	Soil	Laboratory ID:	1109191-02	File ID:	0919102.D
Sampled:	09/22/11 09:00	Prepared:	09/27/11 00:00	Analyzed:	09/27/11 11:21
Solids:	96.12	Preparation:	5035	Dilution:	1
Batch:	1I27005	Sequence:	1I27024	Calibration:	1266001
Instrument:	MS-VOA5				

CAS NO.	COMPOUND	CONC. (ug/Kg dry)	DL	LOD	LOQ	Q
67-64-1	Acetone	50.7	13.5	27.0	54.0	I
71-43-2	Benzene	1.85	1.35	2.70	5.40	I
74-97-5	Bromochloromethane		1.35	2.70	5.40	U
75-27-4	Bromodichloromethane		1.35	2.70	5.40	U
75-25-2	Bromoform		1.35	2.70	5.40	U
74-83-9	Bromomethane		2.70	5.40	10.8	X, N, U
78-93-3	2-Butanone	6.87	2.70	5.40	10.8	I
75-15-0	Carbon disulfide		1.35	2.70	5.40	U
56-23-5	Carbon tetrachloride		1.35	2.70	5.40	U
108-90-7	Chlorobenzene		1.35	2.70	5.40	U
75-00-3	Chloroethane		2.70	5.40	10.8	U
67-66-3	Chloroform		1.35	2.70	5.40	U
74-87-3	Chloromethane		2.70	5.40	10.8	U
110-82-7	Cyclohexane		1.35	2.70	5.40	U
124-48-1	Dibromochloromethane		1.35	2.70	5.40	U
96-12-8	1,2-Dibromo-3-chloropropane		2.70	5.40	10.8	U
106-93-4	1,2-Dibromoethane (EDB)		1.35	2.70	5.40	N, U
95-50-1	1,2-Dichlorobenzene		1.35	2.70	5.40	U
541-73-1	1,3-Dichlorobenzene		1.35	2.70	5.40	U
106-46-7	1,4-Dichlorobenzene		1.35	2.70	5.40	U
75-71-8	Dichlorodifluoromethane		2.70	5.40	10.8	U
75-34-3	1,1-Dichloroethane		1.35	2.70	5.40	U
107-06-2	1,2-Dichloroethane		1.35	2.70	5.40	U
75-35-4	1,1-Dichloroethene		1.35	2.70	5.40	U
156-59-2	cis-1,2-Dichloroethene		1.35	2.70	5.40	U
156-60-5	trans-1,2-Dichloroethene		1.35	2.70	5.40	U
78-87-5	1,2-Dichloropropane		1.35	2.70	5.40	U
10061-01-5	cis-1,3-Dichloropropene		1.35	2.70	5.40	U
10061-02-6	trans-1,3-Dichloropropene		1.35	2.70	5.40	U
123-91-1	1,4-Dioxane		54.0	108	216	U
100-41-4	Ethylbenzene	2.13	1.35	2.70	5.40	I
591-78-6	2-Hexanone		2.70	5.40	10.8	U
98-82-8	Isopropylbenzene		1.35	2.70	5.40	U
75-09-2	Methylene chloride	7.41	1.35	2.70	5.40	
79-20-9	Methyl Acetate		2.70	5.40	10.8	N, U
108-87-2	Methylcyclohexane		1.35	2.70	5.40	U
108-10-1	4-Methyl-2-pentanone		2.70	5.40	10.8	U
1634-04-4	Methyl t-Butyl Ether		1.35	2.70	5.40	Y, U
100-42-5	Styrene		1.35	2.70	5.40	U

ANALYSIS DATA SHEET

FLC-4-SS01-0624-092211

Laboratory:	Empirical Laboratories, LLC			SDG:	1109191
Client:	Tetra Tech NUS, Inc. (T010)			Project:	Navy Fuel Depot CTO JM46
Matrix:	Soil	Laboratory ID:	1109191-02	File ID:	0919102.D
Sampled:	09/22/11 09:00	Prepared:	09/27/11 00:00	Analyzed:	09/27/11 11:21
Solids:	96.12	Preparation:	5035	Dilution:	1

Batch: 1I27005 Sequence: 1I27024 Calibration: 1266001 Instrument: MS-VOA5

CAS NO.	COMPOUND	CONC. (ug/Kg dry)	DL	LOD	LOQ	Q
79-34-5	1,1,2,2-Tetrachloroethane		1.35	2.70	5.40	N, U
630-20-6	1,1,1,2-Tetrachloroethane		1.35	2.70	5.40	U
127-18-4	Tetrachloroethene		1.35	2.70	5.40	U
108-88-3	Toluene	4.59	1.35	2.70	5.40	I
87-61-6	1,2,3-Trichlorobenzene		1.35	2.70	5.40	N, U
120-82-1	1,2,4-Trichlorobenzene		1.35	2.70	5.40	N, U
79-00-5	1,1,2-Trichloroethane		1.35	2.70	5.40	U
71-55-6	1,1,1-Trichloroethane		1.35	2.70	5.40	U
79-01-6	Trichloroethene		1.35	2.70	5.40	U
75-69-4	Trichlorofluoromethane		2.70	5.40	10.8	U
76-13-1	1,1,2-Trichloro-1,2,2-trifluoroethane		2.70	5.40	10.8	U
75-01-4	Vinyl chloride		2.70	5.40	10.8	N, U
108-38-3/106-42-	m,p-Xylene	3.83	2.70	5.40	10.8	I
95-47-6	o-Xylene	1.40	1.35	2.70	5.40	I

SYSTEM MONITORING COMPOUND	ADDED (ug/Kg dry)	CONC (ug/Kg dry)	% REC	QC LIMITS	Q
Bromofluorobenzene	32.38	32.80	101	85 - 120	
Dibromofluoromethane	32.38	36.43	113	80 - 125	
1,2-Dichloroethane-d4	32.38	34.48	107	75 - 140	
Toluene-d8	32.38	33.51	103	85 - 115	

ANALYSIS DATA SHEET

FLC-4-SB01-0204-092211

Laboratory:	Empirical Laboratories, LLC			SDG:	1109191
Client:	Tetra Tech NUS, Inc. (T010)			Project:	Navy Fuel Depot CTO JM46
Matrix:	Soil	Laboratory ID:	1109191-03	File ID:	0919103.D
Sampled:	09/22/11 09:25	Prepared:	09/27/11 00:00	Analyzed:	09/27/11 11:47
Solids:	89.14	Preparation:	5035	Dilution:	1
Batch:	1I27005	Sequence:	1I27024	Calibration:	1266001
Instrument:	MS-VOA5				

CAS NO.	COMPOUND	CONC. (ug/Kg dry)	DL	LOD	LOQ	Q
67-64-1	Acetone		14.5	29.0	58.1	U
71-43-2	Benzene	1.75	1.45	2.90	5.81	I
74-97-5	Bromochloromethane		1.45	2.90	5.81	U
75-27-4	Bromodichloromethane		1.45	2.90	5.81	U
75-25-2	Bromoform		1.45	2.90	5.81	U
74-83-9	Bromomethane		2.90	5.81	11.6	X, U
78-93-3	2-Butanone	6.28	2.90	5.81	11.6	I
75-15-0	Carbon disulfide		1.45	2.90	5.81	U
56-23-5	Carbon tetrachloride		1.45	2.90	5.81	U
108-90-7	Chlorobenzene		1.45	2.90	5.81	U
75-00-3	Chloroethane		2.90	5.81	11.6	U
67-66-3	Chloroform		1.45	2.90	5.81	U
74-87-3	Chloromethane		2.90	5.81	11.6	U
110-82-7	Cyclohexane		1.45	2.90	5.81	U
124-48-1	Dibromochloromethane		1.45	2.90	5.81	U
96-12-8	1,2-Dibromo-3-chloropropane		2.90	5.81	11.6	U
106-93-4	1,2-Dibromoethane (EDB)		1.45	2.90	5.81	U
95-50-1	1,2-Dichlorobenzene		1.45	2.90	5.81	U
541-73-1	1,3-Dichlorobenzene		1.45	2.90	5.81	U
106-46-7	1,4-Dichlorobenzene		1.45	2.90	5.81	U
75-71-8	Dichlorodifluoromethane		2.90	5.81	11.6	U
75-34-3	1,1-Dichloroethane		1.45	2.90	5.81	U
107-06-2	1,2-Dichloroethane		1.45	2.90	5.81	U
75-35-4	1,1-Dichloroethene		1.45	2.90	5.81	U
156-59-2	cis-1,2-Dichloroethene		1.45	2.90	5.81	U
156-60-5	trans-1,2-Dichloroethene		1.45	2.90	5.81	U
78-87-5	1,2-Dichloropropane		1.45	2.90	5.81	U
10061-01-5	cis-1,3-Dichloropropene		1.45	2.90	5.81	U
10061-02-6	trans-1,3-Dichloropropene		1.45	2.90	5.81	U
123-91-1	1,4-Dioxane		58.1	116	232	U
100-41-4	Ethylbenzene	1.64	1.45	2.90	5.81	I
591-78-6	2-Hexanone		2.90	5.81	11.6	U
98-82-8	Isopropylbenzene		1.45	2.90	5.81	U
75-09-2	Methylene chloride	6.93	1.45	2.90	5.81	
79-20-9	Methyl Acetate		2.90	5.81	11.6	U
108-87-2	Methylcyclohexane		1.45	2.90	5.81	U
108-10-1	4-Methyl-2-pentanone		2.90	5.81	11.6	U
1634-04-4	Methyl t-Butyl Ether		1.45	2.90	5.81	Y, U
100-42-5	Styrene		1.45	2.90	5.81	U

ANALYSIS DATA SHEET

FLC-4-SB01-0204-092211

Laboratory:	Empirical Laboratories, LLC			SDG:	1109191
Client:	Tetra Tech NUS, Inc. (T010)			Project:	Navy Fuel Depot CTO JM46
Matrix:	Soil	Laboratory ID:	1109191-03	File ID:	0919103.D
Sampled:	09/22/11 09:25	Prepared:	09/27/11 00:00	Analyzed:	09/27/11 11:47
Solids:	89.14	Preparation:	5035	Dilution:	1

Batch: 1I27005 Sequence: 1I27024 Calibration: 1266001 Instrument: MS-VOA5

CAS NO.	COMPOUND	CONC. (ug/Kg dry)	DL	LOD	LOQ	Q
79-34-5	1,1,2,2-Tetrachloroethane		1.45	2.90	5.81	U
630-20-6	1,1,1,2-Tetrachloroethane		1.45	2.90	5.81	U
127-18-4	Tetrachloroethene		1.45	2.90	5.81	U
108-88-3	Toluene	3.95	1.45	2.90	5.81	I
87-61-6	1,2,3-Trichlorobenzene		1.45	2.90	5.81	U
120-82-1	1,2,4-Trichlorobenzene		1.45	2.90	5.81	U
79-00-5	1,1,2-Trichloroethane		1.45	2.90	5.81	U
71-55-6	1,1,1-Trichloroethane		1.45	2.90	5.81	U
79-01-6	Trichloroethene		1.45	2.90	5.81	U
75-69-4	Trichlorofluoromethane		2.90	5.81	11.6	U
76-13-1	1,1,2-Trichloro-1,2,2-trifluoroethane		2.90	5.81	11.6	U
75-01-4	Vinyl chloride		2.90	5.81	11.6	U
108-38-3/106-42-	m,p-Xylene	3.18	2.90	5.81	11.6	I
95-47-6	o-Xylene		1.45	2.90	5.81	U

SYSTEM MONITORING COMPOUND	ADDED (ug/Kg dry)	CONC (ug/Kg dry)	% REC	QC LIMITS	Q
Bromofluorobenzene	34.84	35.92	103	85 - 120	
Dibromofluoromethane	34.84	39.29	113	80 - 125	
1,2-Dichloroethane-d4	34.84	38.26	110	75 - 140	
Toluene-d8	34.84	34.91	100	85 - 115	

ANALYSIS DATA SHEET

FLC-4-SS02-0006-092211

Laboratory:	Empirical Laboratories, LLC			SDG:	1109191
Client:	Tetra Tech NUS, Inc. (T010)			Project:	Navy Fuel Depot CTO JM46
Matrix:	Soil	Laboratory ID:	1109191-04	File ID:	0919104.D
Sampled:	09/22/11 10:05	Prepared:	09/27/11 00:00	Analyzed:	09/27/11 12:14
Solids:	93.66	Preparation:	5035	Dilution:	1
Batch:	1I27005	Sequence:	1I27024	Calibration:	1266001
Instrument:	MS-VOA5				

CAS NO.	COMPOUND	CONC. (ug/Kg dry)	DL	LOD	LOQ	Q
67-64-1	Acetone	162	11.9	23.8	47.6	
71-43-2	Benzene		1.19	2.38	4.76	U
74-97-5	Bromochloromethane		1.19	2.38	4.76	U
75-27-4	Bromodichloromethane		1.19	2.38	4.76	U
75-25-2	Bromoform		1.19	2.38	4.76	U
74-83-9	Bromomethane		2.38	4.76	9.52	X, U
78-93-3	2-Butanone	8.58	2.38	4.76	9.52	I
75-15-0	Carbon disulfide		1.19	2.38	4.76	U
56-23-5	Carbon tetrachloride		1.19	2.38	4.76	U
108-90-7	Chlorobenzene		1.19	2.38	4.76	U
75-00-3	Chloroethane		2.38	4.76	9.52	U
67-66-3	Chloroform		1.19	2.38	4.76	U
74-87-3	Chloromethane		2.38	4.76	9.52	U
110-82-7	Cyclohexane		1.19	2.38	4.76	U
124-48-1	Dibromochloromethane		1.19	2.38	4.76	U
96-12-8	1,2-Dibromo-3-chloropropane		2.38	4.76	9.52	S, U
106-93-4	1,2-Dibromoethane (EDB)		1.19	2.38	4.76	U
95-50-1	1,2-Dichlorobenzene		1.19	2.38	4.76	S, U
541-73-1	1,3-Dichlorobenzene		1.19	2.38	4.76	S, U
106-46-7	1,4-Dichlorobenzene		1.19	2.38	4.76	S, U
75-71-8	Dichlorodifluoromethane		2.38	4.76	9.52	U
75-34-3	1,1-Dichloroethane		1.19	2.38	4.76	U
107-06-2	1,2-Dichloroethane		1.19	2.38	4.76	U
75-35-4	1,1-Dichloroethene		1.19	2.38	4.76	U
156-59-2	cis-1,2-Dichloroethene		1.19	2.38	4.76	U
156-60-5	trans-1,2-Dichloroethene		1.19	2.38	4.76	U
78-87-5	1,2-Dichloropropane		1.19	2.38	4.76	U
10061-01-5	cis-1,3-Dichloropropene		1.19	2.38	4.76	U
10061-02-6	trans-1,3-Dichloropropene		1.19	2.38	4.76	U
123-91-1	1,4-Dioxane		47.6	95.2	190	U
100-41-4	Ethylbenzene	1.56	1.19	2.38	4.76	I
591-78-6	2-Hexanone	3.87	2.38	4.76	9.52	IV
98-82-8	Isopropylbenzene		1.19	2.38	4.76	U
75-09-2	Methylene chloride	5.70	1.19	2.38	4.76	
79-20-9	Methyl Acetate		2.38	4.76	9.52	U
108-87-2	Methylcyclohexane		1.19	2.38	4.76	U
108-10-1	4-Methyl-2-pentanone		2.38	4.76	9.52	U
1634-04-4	Methyl t-Butyl Ether		1.19	2.38	4.76	Y, U
100-42-5	Styrene		1.19	2.38	4.76	U

ANALYSIS DATA SHEET

FLC-4-SS02-0006-092211

Laboratory:	Empirical Laboratories, LLC			SDG:	1109191
Client:	Tetra Tech NUS, Inc. (T010)			Project:	Navy Fuel Depot CTO JM46
Matrix:	Soil	Laboratory ID:	1109191-04	File ID:	0919104.D
Sampled:	09/22/11 10:05	Prepared:	09/27/11 00:00	Analyzed:	09/27/11 12:14
Solids:	93.66	Preparation:	5035	Dilution:	1

Batch: 1I27005 Sequence: 1I27024 Calibration: 1266001 Instrument: MS-VOA5

CAS NO.	COMPOUND	CONC. (ug/Kg dry)	DL	LOD	LOQ	Q
79-34-5	1,1,2,2-Tetrachloroethane		1.19	2.38	4.76	S, U
630-20-6	1,1,1,2-Tetrachloroethane		1.19	2.38	4.76	U
127-18-4	Tetrachloroethene		1.19	2.38	4.76	U
108-88-3	Toluene	2.72	1.19	2.38	4.76	I
87-61-6	1,2,3-Trichlorobenzene		1.19	2.38	4.76	S, U
120-82-1	1,2,4-Trichlorobenzene		1.19	2.38	4.76	S, U
79-00-5	1,1,2-Trichloroethane		1.19	2.38	4.76	U
71-55-6	1,1,1-Trichloroethane		1.19	2.38	4.76	U
79-01-6	Trichloroethene		1.19	2.38	4.76	U
75-69-4	Trichlorofluoromethane		2.38	4.76	9.52	U
76-13-1	1,1,2-Trichloro-1,2,2-trifluoroethane		2.38	4.76	9.52	U
75-01-4	Vinyl chloride		2.38	4.76	9.52	U
108-38-3/106-42-	m,p-Xylene		2.38	4.76	9.52	U
95-47-6	o-Xylene		1.19	2.38	4.76	U

SYSTEM MONITORING COMPOUND	ADDED (ug/Kg dry)	CONC (ug/Kg dry)	% REC	QC LIMITS	Q
Bromofluorobenzene	28.55	24.10	84.4	85 - 120	*
Dibromofluoromethane	28.55	31.50	110	80 - 125	
1,2-Dichloroethane-d4	28.55	30.81	108	75 - 140	
Toluene-d8	28.55	33.52	117	85 - 115	*

ANALYSIS DATA SHEET

FLC-4-SS02-0006-092211

Laboratory:	Empirical Laboratories, LLC			SDG:	1109191
Client:	Tetra Tech NUS, Inc. (T010)			Project:	Navy Fuel Depot CTO JM46
Matrix:	Soil	Laboratory ID:	1109191-04RE1	File ID:	0919104R.D
Sampled:	09/22/11 10:05	Prepared:	09/28/11 00:00	Analyzed:	09/28/11 14:53
Solids:	93.66	Preparation:	5035	Dilution:	1
Batch:	1I28025	Sequence:	1I27201	Calibration:	1266001
Instrument:	MS-VOA5				

CAS NO.	COMPOUND	CONC. (ug/Kg dry)	DL	LOD	LOQ	Q
67-64-1	Acetone	187	14.0	28.0	56.1	X, Q
71-43-2	Benzene		1.40	2.80	5.61	U
74-97-5	Bromochloromethane		1.40	2.80	5.61	U
75-27-4	Bromodichloromethane		1.40	2.80	5.61	U
75-25-2	Bromoform		1.40	2.80	5.61	X, U
74-83-9	Bromomethane		2.80	5.61	11.2	Q, X, U
78-93-3	2-Butanone	9.76	2.80	5.61	11.2	I
75-15-0	Carbon disulfide		1.40	2.80	5.61	U
56-23-5	Carbon tetrachloride		1.40	2.80	5.61	U
108-90-7	Chlorobenzene		1.40	2.80	5.61	U
75-00-3	Chloroethane		2.80	5.61	11.2	U
67-66-3	Chloroform		1.40	2.80	5.61	U
74-87-3	Chloromethane		2.80	5.61	11.2	U
110-82-7	Cyclohexane		1.40	2.80	5.61	U
124-48-1	Dibromochloromethane		1.40	2.80	5.61	U
96-12-8	1,2-Dibromo-3-chloropropane		2.80	5.61	11.2	S, U
106-93-4	1,2-Dibromoethane (EDB)		1.40	2.80	5.61	U
95-50-1	1,2-Dichlorobenzene		1.40	2.80	5.61	S, U
541-73-1	1,3-Dichlorobenzene		1.40	2.80	5.61	S, U
106-46-7	1,4-Dichlorobenzene		1.40	2.80	5.61	S, U
75-71-8	Dichlorodifluoromethane		2.80	5.61	11.2	U
75-34-3	1,1-Dichloroethane		1.40	2.80	5.61	U
107-06-2	1,2-Dichloroethane		1.40	2.80	5.61	U
75-35-4	1,1-Dichloroethene		1.40	2.80	5.61	U
156-59-2	cis-1,2-Dichloroethene		1.40	2.80	5.61	U
156-60-5	trans-1,2-Dichloroethene		1.40	2.80	5.61	U
78-87-5	1,2-Dichloropropane		1.40	2.80	5.61	U
10061-01-5	cis-1,3-Dichloropropene		1.40	2.80	5.61	U
10061-02-6	trans-1,3-Dichloropropene		1.40	2.80	5.61	U
123-91-1	1,4-Dioxane		56.1	112	224	U
100-41-4	Ethylbenzene	1.91	1.40	2.80	5.61	I
591-78-6	2-Hexanone	4.26	2.80	5.61	11.2	Q, I
98-82-8	Isopropylbenzene		1.40	2.80	5.61	U
75-09-2	Methylene chloride	98.1	1.40	2.80	5.61	V
79-20-9	Methyl Acetate		2.80	5.61	11.2	U
108-87-2	Methylcyclohexane		1.40	2.80	5.61	U
108-10-1	4-Methyl-2-pentanone		2.80	5.61	11.2	U
1634-04-4	Methyl t-Butyl Ether		1.40	2.80	5.61	Y, U
100-42-5	Styrene		1.40	2.80	5.61	U

ANALYSIS DATA SHEET

FLC-4-SS02-0006-092211

Laboratory:	Empirical Laboratories, LLC			SDG:	1109191
Client:	Tetra Tech NUS, Inc. (T010)			Project:	Navy Fuel Depot CTO JM46
Matrix:	Soil	Laboratory ID:	1109191-04RE1	File ID:	0919104R.D
Sampled:	09/22/11 10:05	Prepared:	09/28/11 00:00	Analyzed:	09/28/11 14:53
Solids:	93.66	Preparation:	5035	Dilution:	1

Batch: 1I28025 Sequence: 1I27201 Calibration: 1266001 Instrument: MS-VOA5

CAS NO.	COMPOUND	CONC. (ug/Kg dry)	DL	LOD	LOQ	Q
79-34-5	1,1,2,2-Tetrachloroethane		1.40	2.80	5.61	S, U
630-20-6	1,1,1,2-Tetrachloroethane		1.40	2.80	5.61	U
127-18-4	Tetrachloroethene		1.40	2.80	5.61	U
108-88-3	Toluene	3.18	1.40	2.80	5.61	I
87-61-6	1,2,3-Trichlorobenzene		1.40	2.80	5.61	S, U
120-82-1	1,2,4-Trichlorobenzene		1.40	2.80	5.61	S, U
79-00-5	1,1,2-Trichloroethane		1.40	2.80	5.61	U
71-55-6	1,1,1-Trichloroethane		1.40	2.80	5.61	U
79-01-6	Trichloroethene		1.40	2.80	5.61	U
75-69-4	Trichlorofluoromethane		2.80	5.61	11.2	U
76-13-1	1,1,2-Trichloro-1,2,2-trifluoroethane		2.80	5.61	11.2	U
75-01-4	Vinyl chloride		2.80	5.61	11.2	Q, X, U
108-38-3/106-42-	m,p-Xylene		2.80	5.61	11.2	U
95-47-6	o-Xylene		1.40	2.80	5.61	U

SYSTEM MONITORING COMPOUND	ADDED (ug/Kg dry)	CONC (ug/Kg dry)	% REC	QC LIMITS	Q
Bromofluorobenzene	33.64	28.79	85.6	85 - 120	
Dibromofluoromethane	33.64	38.81	115	80 - 125	
1,2-Dichloroethane-d4	33.64	38.01	113	75 - 140	
Toluene-d8	33.64	39.04	116	85 - 115	*

ANALYSIS DATA SHEET

FLC-4-SS02-0624-092211

Laboratory:	Empirical Laboratories, LLC			SDG:	1109191
Client:	Tetra Tech NUS, Inc. (T010)			Project:	Navy Fuel Depot CTO JM46
Matrix:	Soil	Laboratory ID:	1109191-05RE1	File ID:	0919105R.D
Sampled:	09/22/11 10:20	Prepared:	09/28/11 00:00	Analyzed:	09/28/11 15:46
Solids:	98.08	Preparation:	5035	Dilution:	1
Batch:	1I28025	Sequence:	1I27201	Calibration:	1266001
Instrument:	MS-VOA5				

CAS NO.	COMPOUND	CONC. (ug/Kg dry)	DL	LOD	LOQ	Q
67-64-1	Acetone	82.6	13.7	27.5	54.9	X, Q
71-43-2	Benzene	1.74	1.37	2.75	5.49	I
74-97-5	Bromochloromethane		1.37	2.75	5.49	U
75-27-4	Bromodichloromethane		1.37	2.75	5.49	U
75-25-2	Bromoform		1.37	2.75	5.49	X, U
74-83-9	Bromomethane		2.75	5.49	11.0	X, Q, U
78-93-3	2-Butanone	11.5	2.75	5.49	11.0	
75-15-0	Carbon disulfide		1.37	2.75	5.49	U
56-23-5	Carbon tetrachloride		1.37	2.75	5.49	U
108-90-7	Chlorobenzene		1.37	2.75	5.49	U
75-00-3	Chloroethane		2.75	5.49	11.0	U
67-66-3	Chloroform		1.37	2.75	5.49	U
74-87-3	Chloromethane		2.75	5.49	11.0	U
110-82-7	Cyclohexane		1.37	2.75	5.49	U
124-48-1	Dibromochloromethane		1.37	2.75	5.49	U
96-12-8	1,2-Dibromo-3-chloropropane		2.75	5.49	11.0	U
106-93-4	1,2-Dibromoethane (EDB)		1.37	2.75	5.49	U
95-50-1	1,2-Dichlorobenzene		1.37	2.75	5.49	U
541-73-1	1,3-Dichlorobenzene		1.37	2.75	5.49	U
106-46-7	1,4-Dichlorobenzene		1.37	2.75	5.49	U
75-71-8	Dichlorodifluoromethane		2.75	5.49	11.0	U
75-34-3	1,1-Dichloroethane		1.37	2.75	5.49	U
107-06-2	1,2-Dichloroethane		1.37	2.75	5.49	U
75-35-4	1,1-Dichloroethene		1.37	2.75	5.49	U
156-59-2	cis-1,2-Dichloroethene		1.37	2.75	5.49	U
156-60-5	trans-1,2-Dichloroethene		1.37	2.75	5.49	U
78-87-5	1,2-Dichloropropane		1.37	2.75	5.49	U
10061-01-5	cis-1,3-Dichloropropene		1.37	2.75	5.49	U
10061-02-6	trans-1,3-Dichloropropene		1.37	2.75	5.49	U
123-91-1	1,4-Dioxane		54.9	110	220	U
100-41-4	Ethylbenzene	2.08	1.37	2.75	5.49	I
591-78-6	2-Hexanone		2.75	5.49	11.0	Q, U
98-82-8	Isopropylbenzene		1.37	2.75	5.49	U
75-09-2	Methylene chloride	53.0	1.37	2.75	5.49	V
79-20-9	Methyl Acetate		2.75	5.49	11.0	U
108-87-2	Methylcyclohexane		1.37	2.75	5.49	U
108-10-1	4-Methyl-2-pentanone		2.75	5.49	11.0	U
1634-04-4	Methyl t-Butyl Ether		1.37	2.75	5.49	Y, U
100-42-5	Styrene		1.37	2.75	5.49	U

ANALYSIS DATA SHEET

FLC-4-SS02-0624-092211

Laboratory:	Empirical Laboratories, LLC			SDG:	1109191
Client:	Tetra Tech NUS, Inc. (T010)			Project:	Navy Fuel Depot CTO JM46
Matrix:	Soil	Laboratory ID:	1109191-05RE1	File ID:	0919105R.D
Sampled:	09/22/11 10:20	Prepared:	09/28/11 00:00	Analyzed:	09/28/11 15:46
Solids:	98.08	Preparation:	5035	Dilution:	1

Batch: 1I28025 Sequence: 1I27201 Calibration: 1266001 Instrument: MS-VOA5

CAS NO.	COMPOUND	CONC. (ug/Kg dry)	DL	LOD	LOQ	Q
79-34-5	1,1,2,2-Tetrachloroethane		1.37	2.75	5.49	U
630-20-6	1,1,1,2-Tetrachloroethane		1.37	2.75	5.49	U
127-18-4	Tetrachloroethene		1.37	2.75	5.49	U
108-88-3	Toluene	4.47	1.37	2.75	5.49	I
87-61-6	1,2,3-Trichlorobenzene		1.37	2.75	5.49	U
120-82-1	1,2,4-Trichlorobenzene		1.37	2.75	5.49	U
79-00-5	1,1,2-Trichloroethane		1.37	2.75	5.49	U
71-55-6	1,1,1-Trichloroethane		1.37	2.75	5.49	U
79-01-6	Trichloroethene		1.37	2.75	5.49	U
75-69-4	Trichlorofluoromethane		2.75	5.49	11.0	U
76-13-1	1,1,2-Trichloro-1,2,2-trifluoroethane		2.75	5.49	11.0	U
75-01-4	Vinyl chloride		2.75	5.49	11.0	Q, X, U
108-38-3/106-42-	m,p-Xylene	3.55	2.75	5.49	11.0	I
95-47-6	o-Xylene		1.37	2.75	5.49	U

SYSTEM MONITORING COMPOUND	ADDED (ug/Kg dry)	CONC (ug/Kg dry)	% REC	QC LIMITS	Q
Bromofluorobenzene	32.96	32.22	97.7	85 - 120	
Dibromofluoromethane	32.96	36.51	111	80 - 125	
1,2-Dichloroethane-d4	32.96	36.34	110	75 - 140	
Toluene-d8	32.96	33.97	103	85 - 115	

ANALYSIS DATA SHEET

FLC-4-SB02-0204-092211

Laboratory:	Empirical Laboratories, LLC		SDG:	1109191	
Client:	Tetra Tech NUS, Inc. (T010)		Project:	Navy Fuel Depot CTO JM46	
Matrix:	Soil	Laboratory ID:	1109191-06	File ID:	0919106.D
Sampled:	09/22/11 10:30	Prepared:	09/27/11 00:00	Analyzed:	09/27/11 12:40
Solids:	94.12	Preparation:	5035	Dilution:	1
Batch:	1I27005	Sequence: 1I27024	Calibration:	1266001	Instrument: MS-VOA5

CAS NO.	COMPOUND	CONC. (ug/Kg dry)	DL	LOD	LOQ	Q
67-64-1	Acetone	76.2	13.4	26.9	53.8	
71-43-2	Benzene	2.01	1.34	2.69	5.38	I
74-97-5	Bromochloromethane		1.34	2.69	5.38	U
75-27-4	Bromodichloromethane		1.34	2.69	5.38	U
75-25-2	Bromoform		1.34	2.69	5.38	U
74-83-9	Bromomethane		2.69	5.38	10.8	X, U
78-93-3	2-Butanone	8.98	2.69	5.38	10.8	I
75-15-0	Carbon disulfide		1.34	2.69	5.38	U
56-23-5	Carbon tetrachloride		1.34	2.69	5.38	U
108-90-7	Chlorobenzene		1.34	2.69	5.38	U
75-00-3	Chloroethane		2.69	5.38	10.8	U
67-66-3	Chloroform		1.34	2.69	5.38	U
74-87-3	Chloromethane		2.69	5.38	10.8	U
110-82-7	Cyclohexane		1.34	2.69	5.38	U
124-48-1	Dibromochloromethane		1.34	2.69	5.38	U
96-12-8	1,2-Dibromo-3-chloropropane		2.69	5.38	10.8	U
106-93-4	1,2-Dibromoethane (EDB)		1.34	2.69	5.38	U
95-50-1	1,2-Dichlorobenzene		1.34	2.69	5.38	U
541-73-1	1,3-Dichlorobenzene		1.34	2.69	5.38	U
106-46-7	1,4-Dichlorobenzene		1.34	2.69	5.38	U
75-71-8	Dichlorodifluoromethane		2.69	5.38	10.8	U
75-34-3	1,1-Dichloroethane		1.34	2.69	5.38	U
107-06-2	1,2-Dichloroethane		1.34	2.69	5.38	U
75-35-4	1,1-Dichloroethene		1.34	2.69	5.38	U
156-59-2	cis-1,2-Dichloroethene		1.34	2.69	5.38	U
156-60-5	trans-1,2-Dichloroethene		1.34	2.69	5.38	U
78-87-5	1,2-Dichloropropane		1.34	2.69	5.38	U
10061-01-5	cis-1,3-Dichloropropene		1.34	2.69	5.38	U
10061-02-6	trans-1,3-Dichloropropene		1.34	2.69	5.38	U
123-91-1	1,4-Dioxane		53.8	108	215	U
100-41-4	Ethylbenzene	2.09	1.34	2.69	5.38	I
591-78-6	2-Hexanone		2.69	5.38	10.8	U
98-82-8	Isopropylbenzene		1.34	2.69	5.38	U
75-09-2	Methylene chloride	5.26	1.34	2.69	5.38	I
79-20-9	Methyl Acetate		2.69	5.38	10.8	U
108-87-2	Methylcyclohexane		1.34	2.69	5.38	U
108-10-1	4-Methyl-2-pentanone		2.69	5.38	10.8	U
1634-04-4	Methyl t-Butyl Ether		1.34	2.69	5.38	Y, U
100-42-5	Styrene		1.34	2.69	5.38	U

ANALYSIS DATA SHEET

FLC-4-SB02-0204-092211

Laboratory:	Empirical Laboratories, LLC			SDG:	1109191
Client:	Tetra Tech NUS, Inc. (T010)			Project:	Navy Fuel Depot CTO JM46
Matrix:	Soil	Laboratory ID:	1109191-06	File ID:	0919106.D
Sampled:	09/22/11 10:30	Prepared:	09/27/11 00:00	Analyzed:	09/27/11 12:40
Solids:	94.12	Preparation:	5035	Dilution:	1

Batch: 1I27005 Sequence: 1I27024 Calibration: 1266001 Instrument: MS-VOA5

CAS NO.	COMPOUND	CONC. (ug/Kg dry)	DL	LOD	LOQ	Q
79-34-5	1,1,2,2-Tetrachloroethane		1.34	2.69	5.38	U
630-20-6	1,1,1,2-Tetrachloroethane		1.34	2.69	5.38	U
127-18-4	Tetrachloroethene		1.34	2.69	5.38	U
108-88-3	Toluene	4.67	1.34	2.69	5.38	I
87-61-6	1,2,3-Trichlorobenzene		1.34	2.69	5.38	U
120-82-1	1,2,4-Trichlorobenzene		1.34	2.69	5.38	U
79-00-5	1,1,2-Trichloroethane		1.34	2.69	5.38	U
71-55-6	1,1,1-Trichloroethane		1.34	2.69	5.38	U
79-01-6	Trichloroethene		1.34	2.69	5.38	U
75-69-4	Trichlorofluoromethane		2.69	5.38	10.8	U
76-13-1	1,1,2-Trichloro-1,2,2-trifluoroethane		2.69	5.38	10.8	U
75-01-4	Vinyl chloride		2.69	5.38	10.8	U
108-38-3/106-42-	m,p-Xylene	3.81	2.69	5.38	10.8	I
95-47-6	o-Xylene	1.38	1.34	2.69	5.38	I

SYSTEM MONITORING COMPOUND	ADDED (ug/Kg dry)	CONC (ug/Kg dry)	% REC	QC LIMITS	Q
Bromofluorobenzene	32.26	32.50	101	85 - 120	
Dibromofluoromethane	32.26	36.15	112	80 - 125	
1,2-Dichloroethane-d4	32.26	34.16	106	75 - 140	
Toluene-d8	32.26	32.83	102	85 - 115	

ANALYSIS DATA SHEET

FLC-4-RB01-092211

Laboratory:	Empirical Laboratories, LLC		SDG:	1109191	
Client:	Tetra Tech NUS, Inc. (T010)		Project:	Navy Fuel Depot CTO JM46	
Matrix:	Water	Laboratory ID:	1109191-10	File ID:	0919110.D
Sampled:	09/22/11 11:15	Prepared:	09/28/11 00:00	Analyzed:	09/28/11 23:56
Solids:		Preparation:	5030B	Dilution:	1

Batch: 1I28022 Sequence: 1I27207 Calibration: 1258002 Instrument: MS-VOA6

CAS NO.	COMPOUND	CONC. (ug/L)	DL	LOD	LOQ	Q
67-64-1	Acetone	6.39	2.50	5.00	10.0	I
71-43-2	Benzene		0.250	0.500	1.00	U
74-97-5	Bromochloromethane		0.250	1.00	2.00	U
75-27-4	Bromodichloromethane		0.250	0.500	1.00	U
75-25-2	Bromoform		0.250	0.500	1.00	X, U
74-83-9	Bromomethane		0.500	1.00	2.00	U
78-93-3	2-Butanone	4.58	2.50	5.00	10.0	I
75-15-0	Carbon disulfide		0.250	0.500	1.00	U
56-23-5	Carbon tetrachloride		0.250	0.500	1.00	U
108-90-7	Chlorobenzene		0.250	0.500	1.00	U
75-00-3	Chloroethane		0.500	1.00	2.00	U
67-66-3	Chloroform		0.250	0.500	1.00	U
74-87-3	Chloromethane		0.500	1.00	2.00	U
110-82-7	Cyclohexane		0.500	1.00	2.00	Y, U
124-48-1	Dibromochloromethane		0.250	0.500	1.00	U
96-12-8	1,2-Dibromo-3-chloropropane		0.500	1.00	2.00	U
106-93-4	1,2-Dibromoethane (EDB)		0.250	0.500	1.00	U
95-50-1	1,2-Dichlorobenzene		0.250	0.500	1.00	U
541-73-1	1,3-Dichlorobenzene		0.250	0.500	1.00	U
106-46-7	1,4-Dichlorobenzene		0.250	0.500	1.00	U
75-71-8	Dichlorodifluoromethane		0.500	1.00	2.00	U
75-34-3	1,1-Dichloroethane		0.250	0.500	1.00	U
107-06-2	1,2-Dichloroethane		0.250	0.500	1.00	U
75-35-4	1,1-Dichloroethene		0.250	0.500	1.00	U
156-59-2	cis-1,2-Dichloroethene		0.250	0.500	1.00	U
156-60-5	trans-1,2-Dichloroethene		0.250	0.500	1.00	U
78-87-5	1,2-Dichloropropane		0.250	0.500	1.00	U
10061-01-5	cis-1,3-Dichloropropene		0.250	0.500	1.00	U
10061-02-6	trans-1,3-Dichloropropene		0.250	0.500	1.00	U
100-41-4	Ethylbenzene		0.250	0.500	1.00	U
591-78-6	2-Hexanone		1.25	2.50	5.00	U
98-82-8	Isopropylbenzene		0.250	0.500	1.00	U
75-09-2	Methylene chloride		0.500	1.00	2.00	Y, U
79-20-9	Methyl Acetate		0.500	1.00	2.00	Y, U
108-87-2	Methylcyclohexane		0.250	0.500	1.00	U
108-10-1	4-Methyl-2-pentanone		1.25	2.50	5.00	U
1634-04-4	Methyl t-Butyl Ether		0.250	0.500	1.00	U
100-42-5	Styrene		0.250	0.500	1.00	U
79-34-5	1,1,2,2-Tetrachloroethane		0.250	0.500	1.00	U

ANALYSIS DATA SHEET

FLC-4-RB01-092211

Laboratory:	Empirical Laboratories, LLC			SDG:	1109191
Client:	Tetra Tech NUS, Inc. (T010)			Project:	Navy Fuel Depot CTO JM46
Matrix:	Water	Laboratory ID:	1109191-10	File ID:	0919110.D
Sampled:	09/22/11 11:15	Prepared:	09/28/11 00:00	Analyzed:	09/28/11 23:56
Solids:		Preparation:	5030B	Dilution:	1

Batch: 1I28022 Sequence: 1I27207 Calibration: 1258002 Instrument: MS-VOA6

CAS NO.	COMPOUND	CONC. (ug/L)	DL	LOD	LOQ	Q
630-20-6	1,1,1,2-Tetrachloroethane		0.250	0.500	1.00	U
127-18-4	Tetrachloroethene		0.250	0.500	1.00	U
108-88-3	Toluene	0.323	0.250	0.500	1.00	I
87-61-6	1,2,3-Trichlorobenzene		0.250	0.500	1.00	X, U
120-82-1	1,2,4-Trichlorobenzene		0.250	0.500	1.00	X, U
79-00-5	1,1,2-Trichloroethane		0.250	0.500	1.00	U
71-55-6	1,1,1-Trichloroethane		0.250	0.500	1.00	U
79-01-6	Trichloroethene		0.250	0.500	1.00	U
75-69-4	Trichlorofluoromethane		0.500	1.00	2.00	U
76-13-1	1,1,2-Trichloro-1,2,2-trifluoroethane		0.250	0.500	1.00	U
75-01-4	Vinyl chloride		0.500	1.00	2.00	U
108-38-3/106-42-	m,p-Xylene		0.500	1.00	2.00	U
95-47-6	o-Xylene		0.250	0.500	1.00	U

SYSTEM MONITORING COMPOUND	ADDED (ug/L)	CONC (ug/L)	% REC	QC LIMITS	Q
Bromofluorobenzene	30.00	30.28	101	75 - 120	
Dibromofluoromethane	30.00	31.16	104	85 - 115	
1,2-Dichloroethane-d4	30.00	29.04	96.8	70 - 120	
Toluene-d8	30.00	31.91	106	85 - 120	

SURROGATE STANDARD RECOVERY AND RT SUMMARY

SW8260B

Laboratory:	Empirical Laboratories, LLC	SDG:	1109191
Client:	Tetra Tech NUS, Inc. (T010)	Project:	Navy Fuel Depot CTO JM46
Sequence:	1I27024	Instrument:	MS-VOA5
		Calibration:	1266001

Surrogate Compound	Spike Level	% Recovery	Recovery Limits	RT	CCV RT	RT Diff	RT Diff Limit	Q
Calibration Check (1I27024-CCV1) ug/L				Lab File ID: 0927CCV1.D		Analyzed: 09/27/11 07:11		
Bromofluorobenzene	30.00	114	80 - 120	12.199	12.199	0.0000	+/-1.000	
Dibromofluoromethane	30.00	108	80 - 120	6.84	6.84	0.0000	+/-1.000	
1,2-Dichloroethane-d4	30.00	98.7	80 - 120	7.332	7.332	0.0000	+/-1.000	
Toluene-d8	30.00	109	80 - 120	9.568	9.568	0.0000	+/-1.000	
LCS (1I27005-BS1) ug/Kg wet				Lab File ID: 0927LCS1.D		Analyzed: 09/27/11 07:49		
Bromofluorobenzene	30.00	108	85 - 120	12.194	12.199	-0.0050	+/-1.000	
Dibromofluoromethane	30.00	105	80 - 125	6.836	6.84	-0.0040	+/-1.000	
1,2-Dichloroethane-d4	30.00	95.1	75 - 140	7.338	7.332	0.0060	+/-1.000	
Toluene-d8	30.00	104	85 - 115	9.564	9.568	-0.0040	+/-1.000	
Blank (1I27005-BLK1) ug/Kg wet				Lab File ID: 0927BL1.D		Analyzed: 09/27/11 08:42		
Bromofluorobenzene	30.00	104	85 - 120	12.198	12.199	-0.0010	+/-1.000	
Dibromofluoromethane	30.00	108	80 - 125	6.84	6.84	0.0000	+/-1.000	
1,2-Dichloroethane-d4	30.00	105	75 - 140	7.332	7.332	0.0000	+/-1.000	
Toluene-d8	30.00	99.8	85 - 115	9.568	9.568	0.0000	+/-1.000	
FLC-4-SS01-0006-092211 (1109191-01) ug/Kg dry				Lab File ID: 0919101.D		Analyzed: 09/27/11 10:54		
Bromofluorobenzene	31.91	98.5	85 - 120	12.198	12.199	-0.0010	+/-1.000	
Dibromofluoromethane	31.91	112	80 - 125	6.84	6.84	0.0000	+/-1.000	
1,2-Dichloroethane-d4	31.91	110	75 - 140	7.342	7.332	0.0100	+/-1.000	
Toluene-d8	31.91	105	85 - 115	9.568	9.568	0.0000	+/-1.000	
FLC-4-SS01-0624-092211 (1109191-02) ug/Kg dry				Lab File ID: 0919102.D		Analyzed: 09/27/11 11:21		
Bromofluorobenzene	32.38	101	85 - 120	12.199	12.199	0.0000	+/-1.000	
Dibromofluoromethane	32.38	113	80 - 125	6.831	6.84	-0.0090	+/-1.000	
1,2-Dichloroethane-d4	32.38	107	75 - 140	7.333	7.332	0.0010	+/-1.000	
Toluene-d8	32.38	103	85 - 115	9.569	9.568	0.0010	+/-1.000	
FLC-4-SB01-0204-092211 (1109191-03) ug/Kg dry				Lab File ID: 0919103.D		Analyzed: 09/27/11 11:47		
Bromofluorobenzene	34.84	103	85 - 120	12.198	12.199	-0.0010	+/-1.000	
Dibromofluoromethane	34.84	113	80 - 125	6.84	6.84	0.0000	+/-1.000	
1,2-Dichloroethane-d4	34.84	110	75 - 140	7.332	7.332	0.0000	+/-1.000	
Toluene-d8	34.84	100	85 - 115	9.568	9.568	0.0000	+/-1.000	
FLC-4-SS02-0006-092211 (1109191-04) ug/Kg dry				Lab File ID: 0919104.D		Analyzed: 09/27/11 12:14		
Bromofluorobenzene	28.55	84.4	85 - 120	12.195	12.199	-0.0040	+/-1.000	*
Dibromofluoromethane	28.55	110	80 - 125	6.836	6.84	-0.0040	+/-1.000	
1,2-Dichloroethane-d4	28.55	108	75 - 140	7.338	7.332	0.0060	+/-1.000	
Toluene-d8	28.55	117	85 - 115	9.565	9.568	-0.0030	+/-1.000	*

SURROGATE STANDARD RECOVERY AND RT SUMMARY

SW8260B

Laboratory:	Empirical Laboratories, LLC	SDG:	1109191
Client:	Tetra Tech NUS, Inc. (T010)	Project:	Navy Fuel Depot CTO JM46
Sequence:	1I27024	Instrument:	MS-VOA5
		Calibration:	1266001

Surrogate Compound	Spike Level	% Recovery	Recovery Limits	RT	CCV RT	RT Diff	RT Diff Limit	Q
FLC-4-SB02-0204-092211 (1109191-06) ug/Kg dry				Lab File ID: 0919106.D		Analyzed: 09/27/11 12:40		
Bromofluorobenzene	32.26	101	85 - 120	12.199	12.199	0.0000	+/-1.000	
Dibromofluoromethane	32.26	112	80 - 125	6.84	6.84	0.0000	+/-1.000	
1,2-Dichloroethane-d4	32.26	106	75 - 140	7.343	7.332	0.0110	+/-1.000	
Toluene-d8	32.26	102	85 - 115	9.569	9.568	0.0010	+/-1.000	
Matrix Spike (1I27005-MS1) ug/Kg dry				Lab File ID: 0919102M.D		Analyzed: 09/27/11 17:58		
Bromofluorobenzene	32.31	106	85 - 120	12.195	12.199	-0.0040	+/-1.000	
Dibromofluoromethane	32.31	112	80 - 125	6.837	6.84	-0.0030	+/-1.000	
1,2-Dichloroethane-d4	32.31	101	75 - 140	7.339	7.332	0.0070	+/-1.000	
Toluene-d8	32.31	107	85 - 115	9.565	9.568	-0.0030	+/-1.000	
Matrix Spike Dup (1I27005-MSD1) ug/Kg dry				Lab File ID: 0919102S.D		Analyzed: 09/27/11 18:24		
Bromofluorobenzene	32.72	108	85 - 120	12.198	12.199	-0.0010	+/-1.000	
Dibromofluoromethane	32.72	113	80 - 125	6.84	6.84	0.0000	+/-1.000	
1,2-Dichloroethane-d4	32.72	107	75 - 140	7.342	7.332	0.0100	+/-1.000	
Toluene-d8	32.72	109	85 - 115	9.568	9.568	0.0000	+/-1.000	

SURROGATE STANDARD RECOVERY AND RT SUMMARY

SW8260B

Laboratory:	Empirical Laboratories, LLC	SDG:	1109191
Client:	Tetra Tech NUS, Inc. (T010)	Project:	Navy Fuel Depot CTO JM46
Sequence:	1I27201	Instrument:	MS-VOA5
		Calibration:	1266001

Surrogate Compound	Spike Level	% Recovery	Recovery Limits	RT	CCV RT	RT Diff	RT Diff Limit	Q
Calibration Check (1I27201-CCV1) ug/L				Lab File ID: 0928CCV1.D		Analyzed: 09/28/11 10:10		
Bromofluorobenzene	30.00	120	80 - 120	12.199	12.199	0.0000	+/-1.000	
Dibromofluoromethane	30.00	109	80 - 120	6.84	6.84	0.0000	+/-1.000	
1,2-Dichloroethane-d4	30.00	107	80 - 120	7.333	7.333	0.0000	+/-1.000	
Toluene-d8	30.00	106	80 - 120	9.569	9.569	0.0000	+/-1.000	
LCS (1I28025-BS1) ug/Kg wet				Lab File ID: 0928LCS1.D		Analyzed: 09/28/11 10:37		
Bromofluorobenzene	30.00	110	85 - 120	12.196	12.199	-0.0030	+/-1.000	
Dibromofluoromethane	30.00	108	80 - 125	6.837	6.84	-0.0030	+/-1.000	
1,2-Dichloroethane-d4	30.00	102	75 - 140	7.34	7.333	0.0070	+/-1.000	
Toluene-d8	30.00	101	85 - 115	9.566	9.569	-0.0030	+/-1.000	
Blank (1I28025-BLK1) ug/Kg wet				Lab File ID: 0928BLK1.D		Analyzed: 09/28/11 12:41		
Bromofluorobenzene	30.00	104	85 - 120	12.202	12.199	0.0030	+/-1.000	
Dibromofluoromethane	30.00	107	80 - 125	6.844	6.84	0.0040	+/-1.000	
1,2-Dichloroethane-d4	30.00	103	75 - 140	7.346	7.333	0.0130	+/-1.000	
Toluene-d8	30.00	100	85 - 115	9.572	9.569	0.0030	+/-1.000	
FLC-4-SS02-0006-092211 (1109191-04RE1) ug/Kg dry				Lab File ID: 0919104R.D		Analyzed: 09/28/11 14:53		
Bromofluorobenzene	33.64	85.6	85 - 120	12.2	12.199	0.0010	+/-1.000	
Dibromofluoromethane	33.64	115	80 - 125	6.841	6.84	0.0010	+/-1.000	
1,2-Dichloroethane-d4	33.64	113	75 - 140	7.334	7.333	0.0010	+/-1.000	
Toluene-d8	33.64	116	85 - 115	9.57	9.569	0.0010	+/-1.000	*
FLC-4-SS02-0624-092211 (1109191-05RE1) ug/Kg dry				Lab File ID: 0919105R.D		Analyzed: 09/28/11 15:46		
Bromofluorobenzene	32.96	97.7	85 - 120	12.195	12.199	-0.0040	+/-1.000	
Dibromofluoromethane	32.96	111	80 - 125	6.836	6.84	-0.0040	+/-1.000	
1,2-Dichloroethane-d4	32.96	110	75 - 140	7.339	7.333	0.0060	+/-1.000	
Toluene-d8	32.96	103	85 - 115	9.565	9.569	-0.0040	+/-1.000	
LCS Dup (1I28025-BSD1) ug/Kg wet				Lab File ID: 0928LCD1.D		Analyzed: 09/28/11 21:30		
Bromofluorobenzene	30.00	111	85 - 120	12.19	12.199	-0.0090	+/-1.000	
Dibromofluoromethane	30.00	110	80 - 125	6.832	6.84	-0.0080	+/-1.000	
1,2-Dichloroethane-d4	30.00	104	75 - 140	7.334	7.333	0.0010	+/-1.000	
Toluene-d8	30.00	102	85 - 115	9.57	9.569	0.0010	+/-1.000	

SURROGATE STANDARD RECOVERY AND RT SUMMARY

SW8260B

Laboratory:	Empirical Laboratories, LLC	SDG:	1109191
Client:	Tetra Tech NUS, Inc. (T010)	Project:	Navy Fuel Depot CTO JM46
Sequence:	1I27207	Instrument:	MS-VOA6
		Calibration:	1258002

Surrogate Compound	Spike Level	% Recovery	Recovery Limits	RT	CCV RT	RT Diff	RT Diff Limit	Q
Calibration Check (1I27207-CCV1) ug/L				Lab File ID: 928CCV1E.D		Analyzed: 09/28/11 20:51		
Bromofluorobenzene	30.00	105	80 - 120	12.219	12.219	0.0000	+/-1.000	
Dibromofluoromethane	30.00	101	80 - 120	6.914	6.914	0.0000	+/-1.000	
1,2-Dichloroethane-d4	30.00	99.1	80 - 120	7.406	7.406	0.0000	+/-1.000	
Toluene-d8	30.00	109	80 - 120	9.61	9.61	0.0000	+/-1.000	
LCS (1I28022-BS1) ug/L				Lab File ID: 928LCS1E.D		Analyzed: 09/28/11 21:18		
Bromofluorobenzene	30.00	104	75 - 120	12.225	12.219	0.0060	+/-1.000	
Dibromofluoromethane	30.00	100	85 - 115	6.91	6.914	-0.0040	+/-1.000	
1,2-Dichloroethane-d4	30.00	95.7	70 - 120	7.402	7.406	-0.0040	+/-1.000	
Toluene-d8	30.00	109	85 - 120	9.607	9.61	-0.0030	+/-1.000	
Blank (1I28022-BLK1) ug/L				Lab File ID: 928BLK1E.D		Analyzed: 09/28/11 22:36		
Bromofluorobenzene	30.00	101	75 - 120	12.217	12.219	-0.0020	+/-1.000	
Dibromofluoromethane	30.00	103	85 - 115	6.912	6.914	-0.0020	+/-1.000	
1,2-Dichloroethane-d4	30.00	98.5	70 - 120	7.404	7.406	-0.0020	+/-1.000	
Toluene-d8	30.00	108	85 - 120	9.608	9.61	-0.0020	+/-1.000	
FLC-4-RB01-092211 (1109191-10) ug/L				Lab File ID: 0919110.D		Analyzed: 09/28/11 23:56		
Bromofluorobenzene	30.00	101	75 - 120	12.218	12.219	-0.0010	+/-1.000	
Dibromofluoromethane	30.00	104	85 - 115	6.903	6.914	-0.0110	+/-1.000	
1,2-Dichloroethane-d4	30.00	96.8	70 - 120	7.405	7.406	-0.0010	+/-1.000	
Toluene-d8	30.00	106	85 - 120	9.61	9.61	0.0000	+/-1.000	

LCS / LCS DUPLICATE RECOVERY

SW8260B

Laboratory:	Empirical Laboratories, LLC	SDG:	1109191
Client:	Tetra Tech NUS, Inc. (T010)	Project:	Navy Fuel Depot CTO JM46
Matrix:	Solid		
Batch:	1I27005	Laboratory ID:	1I27005-BS1
Preparation:	5035	Initial/Final:	5 g / 5 mL

ANALYTE	SPIKE ADDED (ug/Kg wet)	LCS CONCENTRATION (ug/Kg wet)	LCS % REC.	QC LIMITS REC.
Acetone	100.0	77.92	77.9	20 - 160
Benzene	50.00	48.47	96.9	75 - 125
Bromochloromethane	50.00	47.52	95.0	70 - 125
Bromodichloromethane	50.00	46.54	93.1	70 - 130
Bromoform	50.00	52.20	104	55 - 135
Bromomethane	50.00	64.68	129	30 - 160
2-Butanone	100.0	88.78	88.8	30 - 160
Carbon disulfide	50.00	40.45	80.9	45 - 160
Carbon tetrachloride	50.00	52.00	104	65 - 135
Chlorobenzene	50.00	49.52	99.0	75 - 125
Chloroethane	50.00	47.67	95.3	40 - 155
Chloroform	50.00	48.23	96.5	70 - 125
Chloromethane	50.00	46.66	93.3	50 - 130
Cyclohexane	50.00	43.83	87.7	65 - 140
Dibromochloromethane	50.00	47.99	96.0	65 - 130
1,2-Dibromo-3-chloropropane	50.00	47.24	94.5	40 - 135
1,2-Dibromoethane (EDB)	50.00	49.94	99.9	70 - 125
1,2-Dichlorobenzene	50.00	49.04	98.1	75 - 120
1,3-Dichlorobenzene	50.00	49.35	98.7	70 - 125
1,4-Dichlorobenzene	50.00	49.76	99.5	70 - 125
Dichlorodifluoromethane	50.00	48.36	96.7	35 - 135
1,1-Dichloroethane	50.00	47.38	94.8	75 - 125
1,2-Dichloroethane	50.00	46.17	92.3	70 - 135
1,1-Dichloroethene	50.00	46.95	93.9	65 - 135
cis-1,2-Dichloroethene	50.00	49.63	99.3	65 - 125
trans-1,2-Dichloroethene	50.00	49.19	98.4	65 - 135
1,2-Dichloropropane	50.00	46.64	93.3	70 - 120
cis-1,3-Dichloropropene	50.00	50.09	100	70 - 125
trans-1,3-Dichloropropene	50.00	44.33	88.7	65 - 125
1,4-Dioxane	1000	946.8	94.7	50 - 150

LCS / LCS DUPLICATE RECOVERY

SW8260B

Laboratory:	Empirical Laboratories, LLC	SDG:	1109191
Client:	Tetra Tech NUS, Inc. (T010)	Project:	Navy Fuel Depot CTO JM46
Matrix:	Solid		
Batch:	1I27005	Laboratory ID:	1I27005-BS1
Preparation:	5035	Initial/Final:	5 g / 5 mL

ANALYTE	SPIKE ADDED (ug/Kg wet)	LCS CONCENTRATION (ug/Kg wet)	LCS % REC.	QC LIMITS REC.
Ethylbenzene	50.00	51.11	102	75 - 125
2-Hexanone	100.0	108.2	108	45 - 145
Isopropylbenzene	50.00	50.99	102	75 - 130
Methylene chloride	50.00	45.47	90.9	55 - 140
Methyl Acetate	50.00	45.60	91.2	45 - 165
Methylcyclohexane	50.00	47.33	94.7	65 - 135
4-Methyl-2-pentanone	100.0	102.2	102	45 - 145
Methyl t-Butyl Ether	50.00	32.07	64.1	55 - 150
Styrene	50.00	51.25	102	75 - 125
1,1,2,2-Tetrachloroethane	50.00	48.93	97.9	55 - 130
1,1,1,2-Tetrachloroethane	50.00	50.95	102	75 - 125
Tetrachloroethene	50.00	51.55	103	65 - 140
Toluene	50.00	50.62	101	70 - 125
1,2,3-Trichlorobenzene	50.00	44.75	89.5	60 - 130
1,2,4-Trichlorobenzene	50.00	48.04	96.1	65 - 130
1,1,2-Trichloroethane	50.00	49.15	98.3	60 - 125
1,1,1-Trichloroethane	50.00	50.89	102	70 - 135
Trichloroethene	50.00	46.76	93.5	75 - 125
Trichlorofluoromethane	50.00	51.10	102	25 - 185
1,1,2-Trichloro-1,2,2-trifluoroethane	50.00	44.30	88.6	20 - 185
Vinyl chloride	50.00	55.85	112	60 - 125
m,p-Xylene	100.0	104.1	104	80 - 125
o-Xylene	50.00	51.86	104	75 - 125

LCS / LCS DUPLICATE RECOVERY

SW8260B

Laboratory:	Empirical Laboratories, LLC	SDG:	1109191
Client:	Tetra Tech NUS, Inc. (T010)	Project:	Navy Fuel Depot CTO JM46
Matrix:	Water		
Batch:	1I28022	Laboratory ID:	1I28022-BS1
Preparation:	5030B	Initial/Final:	5 mL / 5 mL

ANALYTE	SPIKE ADDED (ug/L)	LCS CONCENTRATION (ug/L)	LCS % REC.	QC LIMITS REC.
Acetone	100.0	79.5	79.5	40 - 140
Benzene	50.00	41.1	82.1	80 - 120
Bromochloromethane	50.00	45.8	91.6	65 - 130
Bromodichloromethane	50.00	42.9	85.9	75 - 120
Bromoform	50.00	54.7	109	70 - 130
Bromomethane	50.00	39.8	79.7	30 - 145
2-Butanone	100.0	72.0	72.0	30 - 150
Carbon disulfide	50.00	36.6	73.2	35 - 160
Carbon tetrachloride	50.00	48.9	97.8	65 - 140
Chlorobenzene	50.00	48.2	96.3	80 - 120
Chloroethane	50.00	46.7	93.4	60 - 135
Chloroform	50.00	44.3	88.6	65 - 135
Chloromethane	50.00	42.4	84.8	40 - 125
Cyclohexane	50.00	34.8	69.5	60 - 130
Dibromochloromethane	50.00	49.3	98.7	60 - 135
1,2-Dibromo-3-chloropropane	50.00	51.5	103	50 - 130
1,2-Dibromoethane (EDB)	50.00	47.8	95.6	80 - 120
1,2-Dichlorobenzene	50.00	52.0	104	70 - 120
1,3-Dichlorobenzene	50.00	51.1	102	75 - 125
1,4-Dichlorobenzene	50.00	51.8	104	75 - 125
Dichlorodifluoromethane	50.00	50.9	102	30 - 155
1,1-Dichloroethane	50.00	41.5	83.0	70 - 135
1,2-Dichloroethane	50.00	46.3	92.6	70 - 130
1,1-Dichloroethene	50.00	43.1	86.2	70 - 130
cis-1,2-Dichloroethene	50.00	42.4	84.9	70 - 125
trans-1,2-Dichloroethene	50.00	40.2	80.5	60 - 140
1,2-Dichloropropane	50.00	39.3	78.7	75 - 125
cis-1,3-Dichloropropene	50.00	42.9	85.8	70 - 130
trans-1,3-Dichloropropene	50.00	41.5	83.1	55 - 140
Ethylbenzene	50.00	48.0	95.9	75 - 125

LCS / LCS DUPLICATE RECOVERY

SW8260B

Laboratory:	Empirical Laboratories, LLC	SDG:	1109191
Client:	Tetra Tech NUS, Inc. (T010)	Project:	Navy Fuel Depot CTO JM46
Matrix:	Water		
Batch:	1I28022	Laboratory ID:	1I28022-BS1
Preparation:	5030B	Initial/Final:	5 mL / 5 mL

ANALYTE	SPIKE ADDED (ug/L)	LCS CONCENTRATION (ug/L)	LCS % REC.	QC LIMITS REC.
2-Hexanone	100.0	78.7	78.7	55 - 130
Isopropylbenzene	50.00	47.8	95.6	75 - 125
Methylene chloride	50.00	40.4	80.7	55 - 140
Methyl Acetate	50.00	37.5	75.0	55 - 150
Methylcyclohexane	50.00	40.1	80.2	60 - 125
4-Methyl-2-pentanone	100.0	76.3	76.3	60 - 135
Methyl t-Butyl Ether	50.00	40.5	81.1	65 - 125
Styrene	50.00	47.4	94.8	65 - 135
1,1,2,2-Tetrachloroethane	50.00	45.7	91.3	65 - 130
1,1,1,2-Tetrachloroethane	50.00	48.5	97.0	80 - 130
Tetrachloroethene	50.00	49.2	98.4	45 - 150
Toluene	50.00	45.7	91.4	75 - 120
1,2,3-Trichlorobenzene	50.00	64.1	128	55 - 140
1,2,4-Trichlorobenzene	50.00	59.4	119	65 - 135
1,1,2-Trichloroethane	50.00	44.9	89.9	75 - 125
1,1,1-Trichloroethane	50.00	48.4	96.8	65 - 130
Trichloroethene	50.00	43.9	87.8	70 - 125
Trichlorofluoromethane	50.00	49.5	99.0	60 - 145
1,1,2-Trichloro-1,2,2-trifluoroethane	50.00	41.5	83.1	60 - 130
Vinyl chloride	50.00	52.8	106	50 - 145
m,p-Xylene	100.0	98.0	98.0	75 - 130
o-Xylene	50.00	48.4	96.8	80 - 120

LCS / LCS DUPLICATE RECOVERY

SW8260B

Laboratory:	Empirical Laboratories, LLC	SDG:	1109191
Client:	Tetra Tech NUS, Inc. (T010)	Project:	Navy Fuel Depot CTO JM46
Matrix:	Solid		
Batch:	1I28025	Laboratory ID:	1I28025-BS1
Preparation:	5035	Initial/Final:	5 g / 5 mL

ANALYTE	SPIKE ADDED (ug/Kg wet)	LCS CONCENTRATION (ug/Kg wet)	LCS % REC.	QC LIMITS REC.
Acetone	**100.0**	**205.9**	**206**	**20 - 160**
Benzene	50.00	50.05	100	75 - 125
Bromochloromethane	50.00	51.25	103	70 - 125
Bromodichloromethane	50.00	48.35	96.7	70 - 130
Bromoform	50.00	55.67	111	55 - 135
Bromomethane	**50.00**	**87.47**	**175**	**30 - 160**
2-Butanone	100.0	147.0	147	30 - 160
Carbon disulfide	50.00	40.76	81.5	45 - 160
Carbon tetrachloride	50.00	49.19	98.4	65 - 135
Chlorobenzene	50.00	51.36	103	75 - 125
Chloroethane	50.00	51.89	104	40 - 155
Chloroform	50.00	48.43	96.9	70 - 125
Chloromethane	50.00	53.35	107	50 - 130
Cyclohexane	50.00	42.12	84.2	65 - 140
Dibromochloromethane	50.00	50.85	102	65 - 130
1,2-Dibromo-3-chloropropane	50.00	51.77	104	40 - 135
1,2-Dibromoethane (EDB)	50.00	51.85	104	70 - 125
1,2-Dichlorobenzene	50.00	50.94	102	75 - 120
1,3-Dichlorobenzene	50.00	50.63	101	70 - 125
1,4-Dichlorobenzene	50.00	52.68	105	70 - 125
Dichlorodifluoromethane	50.00	56.89	114	35 - 135
1,1-Dichloroethane	50.00	46.93	93.9	75 - 125
1,2-Dichloroethane	50.00	48.68	97.4	70 - 135
1,1-Dichloroethene	50.00	47.02	94.0	65 - 135
cis-1,2-Dichloroethene	50.00	51.23	102	65 - 125
trans-1,2-Dichloroethene	50.00	49.11	98.2	65 - 135
1,2-Dichloropropane	50.00	47.77	95.5	70 - 120
cis-1,3-Dichloropropene	50.00	53.60	107	70 - 125
trans-1,3-Dichloropropene	50.00	46.71	93.4	65 - 125
1,4-Dioxane	1000	1038	104	50 - 150

LCS / LCS DUPLICATE RECOVERY

SW8260B

Laboratory:	Empirical Laboratories, LLC	SDG:	1109191
Client:	Tetra Tech NUS, Inc. (T010)	Project:	Navy Fuel Depot CTO JM46
Matrix:	Solid		
Batch:	1I28025	Laboratory ID:	1I28025-BS1
Preparation:	5035	Initial/Final:	5 g / 5 mL

ANALYTE	SPIKE ADDED (ug/Kg wet)	LCS CONCENTRATION (ug/Kg wet)	LCS % REC.	QC LIMITS REC.
Ethylbenzene	50.00	50.75	102	75 - 125
2-Hexanone	**100.0**	**148.1**	**148**	**45 - 145**
Isopropylbenzene	50.00	50.80	102	75 - 130
Methylene chloride	50.00	48.27	96.5	55 - 140
Methyl Acetate	50.00	45.57	91.1	45 - 165
Methylcyclohexane	50.00	48.41	96.8	65 - 135
4-Methyl-2-pentanone	100.0	113.9	114	45 - 145
Methyl t-Butyl Ether	50.00	35.27	70.5	55 - 150
Styrene	50.00	55.11	110	75 - 125
1,1,2,2-Tetrachloroethane	50.00	49.06	98.1	55 - 130
1,1,1,2-Tetrachloroethane	50.00	50.81	102	75 - 125
Tetrachloroethene	50.00	50.99	102	65 - 140
Toluene	50.00	50.60	101	70 - 125
1,2,3-Trichlorobenzene	50.00	56.01	112	60 - 130
1,2,4-Trichlorobenzene	50.00	56.23	112	65 - 130
1,1,2-Trichloroethane	50.00	52.02	104	60 - 125
1,1,1-Trichloroethane	50.00	49.31	98.6	70 - 135
Trichloroethene	50.00	47.94	95.9	75 - 125
Trichlorofluoromethane	50.00	49.68	99.4	25 - 185
1,1,2-Trichloro-1,2,2-trifluoroethane	50.00	43.92	87.8	20 - 185
Vinyl chloride	**50.00**	**71.25**	**142**	**60 - 125**
m,p-Xylene	100.0	105.5	106	80 - 125
o-Xylene	50.00	53.02	106	75 - 125

ANALYTE	SPIKE ADDED (ug/Kg wet)	LCSD CONCENTRATION (ug/Kg wet)	LCSD % REC. #	% RPD #	QC LIMITS RPD	QC LIMITS REC.
Acetone	100.0	156.5	157	27.2	30	20 - 160
Benzene	50.00	46.56	93.1	7.25	30	75 - 125
Bromochloromethane	50.00	48.53	97.1	5.46	30	70 - 125
Bromodichloromethane	50.00	46.27	92.5	4.40	30	70 - 130

LCS / LCS DUPLICATE RECOVERY

SW8260B

Laboratory:	Empirical Laboratories, LLC	SDG:	1109191
Client:	Tetra Tech NUS, Inc. (T010)	Project:	Navy Fuel Depot CTO JM46
Matrix:	Solid		
Batch:	1I28025	Laboratory ID:	1I28025-BSD1
Preparation:	5035	Initial/Final:	5 g / 5 mL

ANALYTE	SPIKE ADDED (ug/Kg wet)	LCSD CONCENTRATION (ug/Kg wet)	LCSD % REC. #	% RPD #	QC LIMITS RPD	QC LIMITS REC.
Bromoform	50.00	51.52	103	7.73	30	55 - 135
Bromomethane	**50.00**	**85.13**	**170 ***	**2.71**	**30**	**30 - 160**
2-Butanone	100.0	124.3	124	16.7	30	30 - 160
Carbon disulfide	50.00	36.36	72.7	11.4	30	45 - 160
Carbon tetrachloride	50.00	44.31	88.6	10.4	30	65 - 135
Chlorobenzene	50.00	46.48	93.0	9.96	30	75 - 125
Chloroethane	50.00	45.61	91.2	12.9	30	40 - 155
Chloroform	50.00	44.86	89.7	7.65	30	70 - 125
Chloromethane	50.00	47.67	95.3	11.2	30	50 - 130
Cyclohexane	50.00	36.89	73.8	13.2	30	65 - 140
Dibromochloromethane	50.00	46.78	93.6	8.34	30	65 - 130
1,2-Dibromo-3-chloropropane	50.00	46.55	93.1	10.6	30	40 - 135
1,2-Dibromoethane (EDB)	50.00	50.25	101	3.14	30	70 - 125
1,2-Dichlorobenzene	50.00	45.96	91.9	10.3	30	75 - 120
1,3-Dichlorobenzene	50.00	43.64	87.3	14.8	30	70 - 125
1,4-Dichlorobenzene	50.00	45.49	91.0	14.6	30	70 - 125
Dichlorodifluoromethane	50.00	50.17	100	12.6	30	35 - 135
1,1-Dichloroethane	50.00	43.84	87.7	6.80	30	75 - 125
1,2-Dichloroethane	50.00	45.72	91.4	6.28	30	70 - 135
1,1-Dichloroethene	50.00	42.19	84.4	10.8	30	65 - 135
cis-1,2-Dichloroethene	50.00	48.31	96.6	5.87	30	65 - 125
trans-1,2-Dichloroethene	50.00	44.87	89.7	9.01	30	65 - 135
1,2-Dichloropropane	50.00	45.16	90.3	5.62	30	70 - 120
cis-1,3-Dichloropropene	50.00	49.56	99.1	7.82	30	70 - 125
trans-1,3-Dichloropropene	50.00	42.59	85.2	9.22	30	65 - 125
1,4-Dioxane	1000	961.5	96.1	7.68	30	50 - 150
Ethylbenzene	50.00	46.50	93.0	8.73	30	75 - 125
2-Hexanone	100.0	109.5	109	30.0	30	45 - 145
Isopropylbenzene	50.00	45.94	91.9	10.1	30	75 - 130
Methylene chloride	50.00	48.27	96.5	0.00497	30	55 - 140

LCS / LCS DUPLICATE RECOVERY

SW8260B

Laboratory:	Empirical Laboratories, LLC	SDG:	1109191
Client:	Tetra Tech NUS, Inc. (T010)	Project:	Navy Fuel Depot CTO JM46
Matrix:	Solid		
Batch:	1I28025	Laboratory ID:	1I28025-BSD1
Preparation:	5035	Initial/Final:	5 g / 5 mL

ANALYTE	SPIKE ADDED (ug/Kg wet)	LCSD CONCENTRATION (ug/Kg wet)	LCSD % REC. #	% RPD #	QC LIMITS RPD	QC LIMITS REC.
Methyl Acetate	50.00	43.14	86.3	5.48	30	45 - 165
Methylcyclohexane	50.00	41.16	82.3	16.2	30	65 - 135
4-Methyl-2-pentanone	100.0	93.59	93.6	19.6	30	45 - 145
Methyl t-Butyl Ether	50.00	43.99	88.0	22.0	30	55 - 150
Styrene	50.00	49.85	99.7	10.0	30	75 - 125
1,1,2,2-Tetrachloroethane	50.00	44.12	88.2	10.6	30	55 - 130
1,1,1,2-Tetrachloroethane	50.00	47.83	95.7	6.04	30	75 - 125
Tetrachloroethene	50.00	44.58	89.2	13.4	30	65 - 140
Toluene	50.00	45.98	92.0	9.57	30	70 - 125
1,2,3-Trichlorobenzene	50.00	48.67	97.3	14.0	30	60 - 130
1,2,4-Trichlorobenzene	50.00	48.05	96.1	15.7	30	65 - 130
1,1,2-Trichloroethane	50.00	48.94	97.9	6.10	30	60 - 125
1,1,1-Trichloroethane	50.00	45.15	90.3	8.81	30	70 - 135
Trichloroethene	50.00	43.85	87.7	8.91	30	75 - 125
Trichlorofluoromethane	50.00	43.63	87.3	13.0	30	25 - 185
1,1,2-Trichloro-1,2,2-trifluoroethane	50.00	39.04	78.1	11.8	30	20 - 185
Vinyl chloride	**50.00**	**63.94**	**128 ***	**10.8**	**30**	**60 - 125**
m,p-Xylene	100.0	96.39	96.4	9.06	30	80 - 125
o-Xylene	50.00	48.79	97.6	8.29	30	75 - 125

MATRIX SPIKE / MATRIX SPIKE DUPLICATE RECOVERY

SW8260B

FLC-4-SS01-0624-092211

Laboratory: Empirical Laboratories, LLC

SDG: 1109191

Client: Tetra Tech NUS, Inc. (T010)

Project: Navy Fuel Depot CTO JM46

Matrix: Solid

Batch: 1I27005

% Solids: 96.12

Source Sample Name: **1109191-02**

ANALYTE	SPIKE ADDED (ug/Kg dry)	SAMPLE CONCENTRATION (ug/Kg dry)	MS CONCENTRATION (ug/Kg dry)	MS % REC.	Q	QC LIMITS REC.
Acetone	107.7	50.74	111.0	55.9		20 - 160
Benzene	53.85	1.850	54.83	98.4		75 - 125
Bromochloromethane	53.85	ND	53.73	99.8		70 - 125
Bromodichloromethane	53.85	ND	50.34	93.5		70 - 130
Bromoform	53.85	ND	56.77	105		55 - 135
Bromomethane	53.85	ND	93.48	174	*	30 - 160
2-Butanone	107.7	6.869	97.35	84.0		30 - 160
Carbon disulfide	53.85	ND	43.03	79.9		45 - 160
Carbon tetrachloride	53.85	ND	55.10	102		65 - 135
Chlorobenzene	53.85	ND	53.36	99.1		75 - 125
Chloroethane	53.85	ND	54.37	101		40 - 155
Chloroform	53.85	ND	51.96	96.5		70 - 125
Chloromethane	53.85	ND	51.60	95.8		50 - 130
Cyclohexane	53.85	ND	43.81	81.4		65 - 140
Dibromochloromethane	53.85	ND	53.25	98.9		65 - 130
1,2-Dibromo-3-chloropropane	53.85	ND	55.66	103		40 - 135
1,2-Dibromoethane (EDB)	53.85	ND	56.72	105		70 - 125
1,2-Dichlorobenzene	53.85	ND	47.56	88.3		75 - 120
1,3-Dichlorobenzene	53.85	ND	49.15	91.3		70 - 125
1,4-Dichlorobenzene	53.85	ND	50.38	93.6		70 - 125
Dichlorodifluoromethane	53.85	ND	51.22	95.1		35 - 135
1,1-Dichloroethane	53.85	ND	50.79	94.3		75 - 125
1,2-Dichloroethane	53.85	ND	50.05	93.0		70 - 135
1,1-Dichloroethene	53.85	ND	52.66	97.8		65 - 135
cis-1,2-Dichloroethene	53.85	ND	54.26	101		65 - 125
trans-1,2-Dichloroethene	53.85	ND	52.98	98.4		65 - 135
1,2-Dichloropropane	53.85	ND	49.97	92.8		70 - 120
cis-1,3-Dichloropropene	53.85	ND	53.64	99.6		70 - 125
trans-1,3-Dichloropropene	53.85	ND	47.81	88.8		65 - 125
1,4-Dioxane	1077	ND	966.7	89.8		50 - 150
Ethylbenzene	53.85	2.127	54.66	97.6		75 - 125
2-Hexanone	107.7	ND	106.6	99.0		45 - 145

MATRIX SPIKE / MATRIX SPIKE DUPLICATE RECOVERY

SW8260B

FLC-4-SS01-0624-092211

Laboratory: Empirical Laboratories, LLC

SDG: 1109191

Client: Tetra Tech NUS, Inc. (T010)

Project: Navy Fuel Depot CTO JM46

Matrix: Solid

Batch: 1I27005

% Solids: 96.12

Source Sample Name: **1109191-02**

ANALYTE	SPIKE ADDED (ug/Kg dry)	SAMPLE CONCENTRATION (ug/Kg dry)	MS CONCENTRATION (ug/Kg dry)	MS % REC.	Q	QC LIMITS REC.
Isopropylbenzene	53.85	ND	51.08	94.9		75 - 130
Methylene chloride	53.85	7.408	53.44	85.5		55 - 140
Methyl Acetate	53.85	ND	50.49	93.8		45 - 165
Methylcyclohexane	53.85	ND	44.43	82.5		65 - 135
4-Methyl-2-pentanone	107.7	ND	109.8	102		45 - 145
Methyl t-Butyl Ether	53.85	ND	52.51	97.5		55 - 150
Styrene	53.85	ND	54.31	101		75 - 125
1,1,2,2-Tetrachloroethane	53.85	ND	60.01	111		55 - 130
1,1,1,2-Tetrachloroethane	53.85	ND	53.05	98.5		75 - 125
Tetrachloroethene	53.85	ND	54.76	102		65 - 140
Toluene	53.85	4.590	58.25	99.6		70 - 125
1,2,3-Trichlorobenzene	53.85	ND	26.54	49.3	*	60 - 130
1,2,4-Trichlorobenzene	53.85	ND	31.73	58.9	*	65 - 130
1,1,2-Trichloroethane	53.85	ND	55.80	104		60 - 125
1,1,1-Trichloroethane	53.85	ND	55.23	103		70 - 135
Trichloroethene	53.85	ND	49.39	91.7		75 - 125
Trichlorofluoromethane	53.85	ND	56.42	105		25 - 185
1,1,2-Trichloro-1,2,2-trifluoroethane	53.85	ND	48.50	90.1		20 - 185
Vinyl chloride	53.85	ND	67.24	125		60 - 125
m,p-Xylene	107.7	3.830	111.5	99.9		80 - 125
o-Xylene	53.85	1.398	55.17	99.9		75 - 125

MATRIX SPIKE / MATRIX SPIKE DUPLICATE RECOVERY

SW8260B

FLC-4-SS01-0624-092211

Laboratory: Empirical Laboratories, LLC

SDG: 1109191

Client: Tetra Tech NUS, Inc. (T010)

Project: Navy Fuel Depot CTO JM46

Matrix: Solid

Batch: 1I27005

% Solids: 96.12

Source Sample Name: **1109191-02**

ANALYTE	SPIKE ADDED (ug/Kg dry)	MSD CONCENTRATION (ug/Kg dry)	MSD % REC. #	% RPD	Q	QC LIMITS RPD	QC LIMITS REC.
Acetone	109.1	144.2	85.7	26.0		30	20 - 160
Benzene	54.53	65.50	117	17.7		30	75 - 125
Bromochloromethane	54.53	66.07	121	20.6		30	70 - 125
Bromodichloromethane	54.53	61.31	112	19.6		30	70 - 130
Bromoform	54.53	71.19	131	22.5		30	55 - 135
Bromomethane	54.53	104.1	191	10.8	*	30	30 - 160
2-Butanone	109.1	116.4	100	17.8		30	30 - 160
Carbon disulfide	54.53	51.75	94.9	18.4		30	45 - 160
Carbon tetrachloride	54.53	68.24	125	21.3		30	65 - 135
Chlorobenzene	54.53	63.19	116	16.9		30	75 - 125
Chloroethane	54.53	65.06	119	17.9		30	40 - 155
Chloroform	54.53	62.84	115	18.9		30	70 - 125
Chloromethane	54.53	60.80	112	16.4		30	50 - 130
Cyclohexane	54.53	51.64	94.7	16.4		30	65 - 140
Dibromochloromethane	54.53	66.30	122	21.8		30	65 - 130
1,2-Dibromo-3-chloropropane	54.53	71.65	131	25.1		30	40 - 135
1,2-Dibromoethane (EDB)	54.53	69.82	128	20.7	*	30	70 - 125
1,2-Dichlorobenzene	54.53	56.16	103	16.6		30	75 - 120
1,3-Dichlorobenzene	54.53	58.13	107	16.7		30	70 - 125
1,4-Dichlorobenzene	54.53	59.38	109	16.4		30	70 - 125
Dichlorodifluoromethane	54.53	61.64	113	18.5		30	35 - 135
1,1-Dichloroethane	54.53	62.74	115	21.0		30	75 - 125
1,2-Dichloroethane	54.53	61.25	112	20.1		30	70 - 135
1,1-Dichloroethene	54.53	62.67	115	17.4		30	65 - 135
cis-1,2-Dichloroethene	54.53	65.57	120	18.9		30	65 - 125
trans-1,2-Dichloroethene	54.53	62.59	115	16.6		30	65 - 135
1,2-Dichloropropane	54.53	59.56	109	17.5		30	70 - 120
cis-1,3-Dichloropropene	54.53	64.01	117	17.6		30	70 - 125
trans-1,3-Dichloropropene	54.53	58.20	107	19.6		30	65 - 125
1,4-Dioxane	1091	1301	119	29.5		30	50 - 150
Ethylbenzene	54.53	65.27	116	17.7		30	75 - 125
2-Hexanone	109.1	143.7	132	29.6		30	45 - 145
Isopropylbenzene	54.53	60.44	111	16.8		30	75 - 130

MATRIX SPIKE / MATRIX SPIKE DUPLICATE RECOVERY

SW8260B

FLC-4-SS01-0624-092211

Laboratory: Empirical Laboratories, LLC

SDG: 1109191

Client: Tetra Tech NUS, Inc. (T010)

Project: Navy Fuel Depot CTO JM46

Matrix: Solid

Batch: 1I27005

% Solids: 96.12

Source Sample Name: **1109191-02**

ANALYTE	SPIKE ADDED (ug/Kg dry)	MSD CONCENTRATION (ug/Kg dry)	MSD % REC. #	% RPD	Q	QC LIMITS RPD	QC LIMITS REC.
Methylene chloride	54.53	63.75	103	17.6		30	55 - 140
Methyl Acetate	54.53	68.36	125	30.1	*	30	45 - 165
Methylcyclohexane	54.53	51.06	93.6	13.9		30	65 - 135
4-Methyl-2-pentanone	109.1	137.4	126	22.3		30	45 - 145
Methyl t-Butyl Ether	54.53	65.39	120	21.8		30	55 - 150
Styrene	54.53	66.80	123	20.6		30	75 - 125
1,1,2,2-Tetrachloroethane	54.53	71.96	132	18.1	*	30	55 - 130
1,1,1,2-Tetrachloroethane	54.53	65.73	121	21.3		30	75 - 125
Tetrachloroethene	54.53	66.36	122	19.2		30	65 - 140
Toluene	54.53	69.55	119	17.7		30	70 - 125
1,2,3-Trichlorobenzene	54.53	30.73	56.4	14.6	*	30	60 - 130
1,2,4-Trichlorobenzene	54.53	37.36	68.5	16.3		30	65 - 130
1,1,2-Trichloroethane	54.53	68.12	125	19.9		30	60 - 125
1,1,1-Trichloroethane	54.53	66.87	123	19.1		30	70 - 135
Trichloroethene	54.53	59.22	109	18.1		30	75 - 125
Trichlorofluoromethane	54.53	67.93	125	18.5		30	25 - 185
1,1,2-Trichloro-1,2,2-trifluoroethane	54.53	59.08	108	19.7		30	20 - 185
Vinyl chloride	54.53	79.95	147	17.3	*	30	60 - 125
m,p-Xylene	109.1	132.3	118	17.1		30	80 - 125
o-Xylene	54.53	66.44	119	18.5		30	75 - 125

PREPARATION BATCH SUMMARY

SW8260B

Laboratory: Empirical Laboratories, LLC SDG: 1109191

Client: Tetra Tech NUS, Inc. (T010) Project: Navy Fuel Depot CTO JM46

Batch: 1I27005 Batch Matrix: Solid Preparation: 5035

SAMPLE NAME	LAB SAMPLE ID	DATE PREPARED	INITIAL VOL./WEIGHT	FINAL VOL.
FLC-4-SS01-0006-092211	1109191-01	09/27/11 00:00	4.80	5.00
FLC-4-SS01-0624-092211	1109191-02	09/27/11 00:00	4.82	5.00
FLC-4-SB01-0204-092211	1109191-03	09/27/11 00:00	4.83	5.00
FLC-4-SS02-0006-092211	1109191-04	09/27/11 00:00	5.61	5.00
FLC-4-SB02-0204-092211	1109191-06	09/27/11 00:00	4.94	5.00
Blank	1I27005-BLK1	09/27/11 00:00	5.00	5.00
LCS	1I27005-BS1	09/27/11 00:00	5.00	5.00
FLC-4-SS01-0624-092211	1I27005-MS1	09/27/11 00:00	4.83	5.00
FLC-4-SS01-0624-092211	1I27005-MSD1	09/27/11 00:00	4.77	5.00

PREPARATION BATCH SUMMARY

SW8260B

Laboratory: Empirical Laboratories, LLC SDG: 1109191

Client: Tetra Tech NUS, Inc. (T010) Project: Navy Fuel Depot CTO JM46

Batch: 1I28022 Batch Matrix: Water Preparation: 5030B

SAMPLE NAME	LAB SAMPLE ID	DATE PREPARED	INITIAL VOL./WEIGHT	FINAL VOL.
FLC-4-RB01-092211	1109191-10	09/28/11 00:00	5.00	5.00
Blank	1I28022-BLK1	09/28/11 00:00	5.00	5.00
LCS	1I28022-BS1	09/28/11 00:00	5.00	5.00

PREPARATION BATCH SUMMARY

SW8260B

Laboratory: Empirical Laboratories, LLC SDG: 1109191

Client: Tetra Tech NUS, Inc. (T010) Project: Navy Fuel Depot CTO JM46

Batch: 1I28025 Batch Matrix: Solid Preparation: 5035

SAMPLE NAME	LAB SAMPLE ID	DATE PREPARED	INITIAL VOL./WEIGHT	FINAL VOL.
FLC-4-SS02-0006-092211	1109191-04RE1	09/28/11 00:00	4.76	5.00
FLC-4-SS02-0624-092211	1109191-05RE1	09/28/11 00:00	4.64	5.00
Blank	1I28025-BLK1	09/28/11 00:00	5.00	5.00
LCS	1I28025-BS1	09/28/11 00:00	5.00	5.00
LCS Dup	1I28025-BSD1	09/28/11 00:00	5.00	5.00

MASS SPECTROMETER INSTRUMENT PERFORMANCE CHECK

SW8260B

Laboratory:	Empirical Laboratories, LLC	SDG:	1109191
Client:	Tetra Tech NUS, Inc. (T010)	Project:	Navy Fuel Depot CTO JM46
Lab File ID:	0913TUN1.D	Injection Date:	09/13/11
Instrument ID:	MS-VOA6	Injection Time:	13:38
Sequence:	1I25809	Lab Sample ID:	1I25809-TUN1

m/z	ION ABUNDANCE CRITERIA	% RELATIVE ABUNDANCE	
50	15 - 40% of 95	29.6	PASS
75	30 - 60% of 95	54.9	PASS
95	Base peak, 100% relative abundance	100	PASS
96	5 - 9% of 95	6.49	PASS
173	Less than 2% of 174	0	PASS
174	50 - 200% of 95	58.8	PASS
175	5 - 9% of 174	7.37	PASS
176	95 - 101% of 174	97.4	PASS
177	5 - 9% of 176	6.71	PASS

MASS SPECTROMETER INSTRUMENT PERFORMANCE CHECK

SW8260B

Laboratory:	Empirical Laboratories, LLC	SDG:	1109191
Client:	Tetra Tech NUS, Inc. (T010)	Project:	Navy Fuel Depot CTO JM46
Lab File ID:	0922TU1.D	Injection Date:	09/22/11
Instrument ID:	MS-VOA5	Injection Time:	13:31
Sequence:	1I26601	Lab Sample ID:	1I26601-TUN1

m/z	ION ABUNDANCE CRITERIA	% RELATIVE ABUNDANCE	
50	15 - 40% of 95	23.4	PASS
75	30 - 60% of 95	48.4	PASS
95	Base peak, 100% relative abundance	100	PASS
96	5 - 9% of 95	6.57	PASS
173	Less than 2% of 174	0	PASS
174	50 - 200% of 95	59.8	PASS
175	5 - 9% of 174	7.68	PASS
176	95 - 101% of 174	98.5	PASS
177	5 - 9% of 176	6.69	PASS

MASS SPECTROMETER INSTRUMENT PERFORMANCE CHECK

SW8260B

Laboratory:	Empirical Laboratories, LLC	SDG:	1109191
Client:	Tetra Tech NUS, Inc. (T010)	Project:	Navy Fuel Depot CTO JM46
Lab File ID:	0927TU1.D	Injection Date:	09/27/11
Instrument ID:	MS-VOA5	Injection Time:	06:45
Sequence:	1I27024	Lab Sample ID:	1I27024-TUN1

m/z	ION ABUNDANCE CRITERIA	% RELATIVE ABUNDANCE	
50	15 - 40% of 95	22	PASS
75	30 - 60% of 95	48.2	PASS
95	Base peak, 100% relative abundance	100	PASS
96	5 - 9% of 95	6.47	PASS
173	Less than 2% of 174	0	PASS
174	50 - 200% of 95	67.3	PASS
175	5 - 9% of 174	7.56	PASS
176	95 - 101% of 174	98.8	PASS
177	5 - 9% of 176	6.61	PASS

MASS SPECTROMETER INSTRUMENT PERFORMANCE CHECK

SW8260B

Laboratory:	Empirical Laboratories, LLC	SDG:	1109191
Client:	Tetra Tech NUS, Inc. (T010)	Project:	Navy Fuel Depot CTO JM46
Lab File ID:	0928TU1.D	Injection Date:	09/28/11
Instrument ID:	MS-VOA5	Injection Time:	09:44
Sequence:	1I27201	Lab Sample ID:	1I27201-TUN1

m/z	ION ABUNDANCE CRITERIA	% RELATIVE ABUNDANCE	
50	15 - 40% of 95	22.7	PASS
75	30 - 60% of 95	47.6	PASS
95	Base peak, 100% relative abundance	100	PASS
96	5 - 9% of 95	6.99	PASS
173	Less than 2% of 174	0	PASS
174	50 - 200% of 95	57.3	PASS
175	5 - 9% of 174	8.13	PASS
176	95 - 101% of 174	97.2	PASS
177	5 - 9% of 176	6.81	PASS

MASS SPECTROMETER INSTRUMENT PERFORMANCE CHECK

SW8260B

Laboratory:	Empirical Laboratories, LLC	SDG:	1109191
Client:	Tetra Tech NUS, Inc. (T010)	Project:	Navy Fuel Depot CTO JM46
Lab File ID:	928TUN1E.D	Injection Date:	09/28/11
Instrument ID:	MS-VOA6	Injection Time:	20:24
Sequence:	1I27207	Lab Sample ID:	1I27207-TUN1

m/z	ION ABUNDANCE CRITERIA	% RELATIVE ABUNDANCE	
50	15 - 40% of 95	26.4	PASS
75	30 - 60% of 95	54.8	PASS
95	Base peak, 100% relative abundance	100	PASS
96	5 - 9% of 95	6.42	PASS
173	Less than 2% of 174	0	PASS
174	50 - 200% of 95	81.5	PASS
175	5 - 9% of 174	7.28	PASS
176	95 - 101% of 174	96.8	PASS
177	5 - 9% of 176	6.48	PASS

ANALYSIS SEQUENCE SUMMARY

SW8260B

Laboratory:	Empirical Laboratories, LLC	SDG:	1109191
Client:	Tetra Tech NUS, Inc. (T010)	Project:	Navy Fuel Depot CTO JM46
Sequence:	1I25809	Instrument:	MS-VOA6
Calibration:	1258002		

Sample Name	Lab Sample ID	Lab File ID	Analysis Date/Time
MS Tune	1I25809-TUN1	0913TUN1.D	09/13/11 13:38
Cal Standard	1I25809-CAL1	0913CAL1.D	09/13/11 14:57
Cal Standard	1I25809-CAL2	0913CAL2.D	09/13/11 15:23
Cal Standard	1I25809-CAL3	0913CAL3.D	09/13/11 15:50
Cal Standard	1I25809-CAL4	0913CAL4.D	09/13/11 16:17
Cal Standard	1I25809-CAL5	0913CAL5.D	09/13/11 16:44
Cal Standard	1I25809-CAL6	0913CAL6.D	09/13/11 17:10
Cal Standard	1I25809-CAL7	0913CAL7.D	09/13/11 17:37
Cal Standard	1I25809-CAL8	0913CAL8.D	09/13/11 18:04
Cal Standard	1I25809-CAL9	0913CAL9.D	09/13/11 18:30
Initial Cal Check	1I25809-ICV2	0913ICV2.D	09/13/11 19:51

ANALYSIS SEQUENCE SUMMARY

SW8260B

Laboratory:	Empirical Laboratories, LLC	SDG:	1109191
Client:	Tetra Tech NUS, Inc. (T010)	Project:	Navy Fuel Depot CTO JM46
Sequence:	1I26601	Instrument:	MS-VOA5
Calibration:	1266001		

Sample Name	Lab Sample ID	Lab File ID	Analysis Date/Time
MS Tune	1I26601-TUN1	0922TU1.D	09/22/11 13:31
Cal Standard	1I26601-CAL1	0922CAL1.D	09/22/11 14:24
Cal Standard	1I26601-CAL2	0922CAL2.D	09/22/11 14:51
Cal Standard	1I26601-CAL3	0922CAL3.D	09/22/11 15:17
Cal Standard	1I26601-CAL4	0922CAL4.D	09/22/11 15:44
Cal Standard	1I26601-CAL5	0922CAL5.D	09/22/11 16:10
Cal Standard	1I26601-CAL6	0922CAL6.D	09/22/11 16:37
Cal Standard	1I26601-CAL7	0922CAL7.D	09/22/11 17:03
Cal Standard	1I26601-CAL8	0922CAL8.D	09/22/11 17:30
Initial Cal Check	1I26601-ICV2	0922ICV2.D	09/22/11 18:49

ANALYSIS SEQUENCE SUMMARY

SW8260B

Laboratory:	Empirical Laboratories, LLC	SDG:	1109191
Client:	Tetra Tech NUS, Inc. (T010)	Project:	Navy Fuel Depot CTO JM46
Sequence:	1I27024	Instrument:	MS-VOA5
Calibration:	1266001		

Sample Name	Lab Sample ID	Lab File ID	Analysis Date/Time
MS Tune	1I27024-TUN1	0927TU1.D	09/27/11 06:45
Calibration Check	1I27024-CCV1	0927CCV1.D	09/27/11 07:11
LCS	1I27005-BS1	0927LCS1.D	09/27/11 07:49
Blank	1I27005-BLK1	0927BL1.D	09/27/11 08:42
FLC-4-SS01-0006-092211	1109191-01	0919101.D	09/27/11 10:54
FLC-4-SS01-0624-092211	1109191-02	0919102.D	09/27/11 11:21
FLC-4-SB01-0204-092211	1109191-03	0919103.D	09/27/11 11:47
FLC-4-SS02-0006-092211	1109191-04	0919104.D	09/27/11 12:14
FLC-4-SB02-0204-092211	1109191-06	0919106.D	09/27/11 12:40
FLC-4-SS01-0624-092211	1I27005-MS1	0919102M.D	09/27/11 17:58
FLC-4-SS01-0624-092211	1I27005-MSD1	0919102S.D	09/27/11 18:24

ANALYSIS SEQUENCE SUMMARY

SW8260B

Laboratory:	Empirical Laboratories, LLC	SDG:	1109191
Client:	Tetra Tech NUS, Inc. (T010)	Project:	Navy Fuel Depot CTO JM46
Sequence:	1I27201	Instrument:	MS-VOA5
Calibration:	1266001		

Sample Name	Lab Sample ID	Lab File ID	Analysis Date/Time
MS Tune	1I27201-TUN1	0928TU1.D	09/28/11 09:44
Calibration Check	1I27201-CCV1	0928CCV1.D	09/28/11 10:10
LCS	1I28025-BS1	0928LCS1.D	09/28/11 10:37
Blank	1I28025-BLK1	0928BLK1.D	09/28/11 12:41
FLC-4-SS02-0006-092211	1109191-04RE1	0919104R.D	09/28/11 14:53
FLC-4-SS02-0624-092211	1109191-05RE1	0919105R.D	09/28/11 15:46
LCS Dup	1I28025-BSD1	0928LCD1.D	09/28/11 21:30

ANALYSIS SEQUENCE SUMMARY

SW8260B

Laboratory:	Empirical Laboratories, LLC	SDG:	1109191
Client:	Tetra Tech NUS, Inc. (T010)	Project:	Navy Fuel Depot CTO JM46
Sequence:	1I27207	Instrument:	MS-VOA6
Calibration:	1258002		

Sample Name	Lab Sample ID	Lab File ID	Analysis Date/Time
MS Tune	1I27207-TUN1	928TUN1E.D	09/28/11 20:24
Calibration Check	1I27207-CCV1	928CCV1E.D	09/28/11 20:51
LCS	1I28022-BS1	928LCS1E.D	09/28/11 21:18
Blank	1I28022-BLK1	928BLK1E.D	09/28/11 22:36
FLC-4-RB01-092211	1109191-10	0919110.D	09/28/11 23:56

INTERNAL STANDARD AREA AND RT SUMMARY
SW8260B

Laboratory:	Empirical Laboratories, LLC	SDG:	1109191
Client:	Tetra Tech NUS, Inc. (T010)	Project:	Navy Fuel Depot CTO JM46
Sequence:	1I27024	Instrument:	MS-VOA5
		Calibration:	1266001

Internal Standard	Response	RT	Reference Response	Reference RT	Area %	Area % Limits	RT Diff	RT Diff Limit	Q
Calibration Check (1I27024-CCV1)			Lab File ID: 0927CCV1.D			Analyzed: 09/27/11 07:11			
Fluorobenzene	788018	7.864	811527	7.861	97	50 - 200	0.0030	+/-0.50	
Chlorobenzene-d5	321840	10.997	356845	10.993	90	50 - 200	0.0040	+/-0.50	
1,4-Dichlorobenzene-d4	227974	13.4	238939	13.397	95	50 - 200	0.0030	+/-0.50	
LCS (1I27005-BS1)			Lab File ID: 0927LCS1.D			Analyzed: 09/27/11 07:49			
Fluorobenzene	831012	7.86	788018	7.864	105	50 - 200	-0.0040	+/-0.50	
Chlorobenzene-d5	350634	11.003	321840	10.997	109	50 - 200	0.0060	+/-0.50	
1,4-Dichlorobenzene-d4	250137	13.396	227974	13.4	110	50 - 200	-0.0040	+/-0.50	
Blank (1I27005-BLK1)			Lab File ID: 0927BL1.D			Analyzed: 09/27/11 08:42			
Fluorobenzene	799556	7.864	788018	7.864	101	50 - 200	0.0000	+/-0.50	
Chlorobenzene-d5	352268	10.997	321840	10.997	109	50 - 200	0.0000	+/-0.50	
1,4-Dichlorobenzene-d4	223564	13.4	227974	13.4	98	50 - 200	0.0000	+/-0.50	
FLC-4-SS01-0006-092211 (1109191-01)			Lab File ID: 0919101.D			Analyzed: 09/27/11 10:54			
Fluorobenzene	746176	7.864	788018	7.864	95	50 - 200	0.0000	+/-0.50	
Chlorobenzene-d5	315840	10.997	321840	10.997	98	50 - 200	0.0000	+/-0.50	
1,4-Dichlorobenzene-d4	177009	13.4	227974	13.4	78	50 - 200	0.0000	+/-0.50	
FLC-4-SS01-0624-092211 (1109191-02)			Lab File ID: 0919102.D			Analyzed: 09/27/11 11:21			
Fluorobenzene	734000	7.865	788018	7.864	93	50 - 200	0.0010	+/-0.50	
Chlorobenzene-d5	319505	10.998	321840	10.997	99	50 - 200	0.0010	+/-0.50	
1,4-Dichlorobenzene-d4	188125	13.401	227974	13.4	83	50 - 200	0.0010	+/-0.50	
FLC-4-SB01-0204-092211 (1109191-03)			Lab File ID: 0919103.D			Analyzed: 09/27/11 11:47			
Fluorobenzene	733561	7.864	788018	7.864	93	50 - 200	0.0000	+/-0.50	
Chlorobenzene-d5	324582	11.007	321840	10.997	101	50 - 200	0.0100	+/-0.50	
1,4-Dichlorobenzene-d4	208183	13.4	227974	13.4	91	50 - 200	0.0000	+/-0.50	
FLC-4-SS02-0006-092211 (1109191-04)			Lab File ID: 0919104.D			Analyzed: 09/27/11 12:14			
Fluorobenzene	664438	7.87	788018	7.864	84	50 - 200	0.0060	+/-0.50	
Chlorobenzene-d5	226416	11.003	321840	10.997	70	50 - 200	0.0060	+/-0.50	
1,4-Dichlorobenzene-d4	85520	13.396	227974	13.4	38	50 - 200	-0.0040	+/-0.50	*
FLC-4-SB02-0204-092211 (1109191-06)			Lab File ID: 0919106.D			Analyzed: 09/27/11 12:40			
Fluorobenzene	736276	7.875	788018	7.864	93	50 - 200	0.0110	+/-0.50	
Chlorobenzene-d5	319287	11.007	321840	10.997	99	50 - 200	0.0100	+/-0.50	
1,4-Dichlorobenzene-d4	190808	13.401	227974	13.4	84	50 - 200	0.0010	+/-0.50	
Matrix Spike (1I27005-MS1)			Lab File ID: 0919102M.D			Analyzed: 09/27/11 17:58			
Fluorobenzene	908346	7.871	788018	7.864	115	50 - 200	0.0070	+/-0.50	
Chlorobenzene-d5	376933	11.003	321840	10.997	117	50 - 200	0.0060	+/-0.50	
1,4-Dichlorobenzene-d4	241779	13.397	227974	13.4	106	50 - 200	-0.0030	+/-0.50	

INTERNAL STANDARD AREA AND RT SUMMARY
SW8260B

Laboratory:	Empirical Laboratories, LLC	SDG:	1109191
Client:	Tetra Tech NUS, Inc. (T010)	Project:	Navy Fuel Depot CTO JM46
Sequence:	1I27024	Instrument:	MS-VOA5
		Calibration:	1266001

Internal Standard	Response	RT	Reference Response	Reference RT	Area %	Area % Limits	RT Diff	RT Diff Limit	Q
Matrix Spike Dup (1I27005-MSD1)			Lab File ID: 0919102S.D			Analyzed: 09/27/11 18:24			
Fluorobenzene	870593	7.864	788018	7.864	110	50 - 200	0.0000	+/-0.50	
Chlorobenzene-d5	361424	10.997	321840	10.997	112	50 - 200	0.0000	+/-0.50	
1,4-Dichlorobenzene-d4	238135	13.4	227974	13.4	104	50 - 200	0.0000	+/-0.50	

INTERNAL STANDARD AREA AND RT SUMMARY
SW8260B

Laboratory:	Empirical Laboratories, LLC	SDG:	1109191
Client:	Tetra Tech NUS, Inc. (T010)	Project:	Navy Fuel Depot CTO JM46
Sequence:	1I27201	Instrument:	MS-VOA5
		Calibration:	1266001

Internal Standard	Response	RT	Reference Response	Reference RT	Area %	Area % Limits	RT Diff	RT Diff Limit	Q
Calibration Check (1I27201-CCV1)			Lab File ID: 0928CCV1.D			Analyzed: 09/28/11 10:10			
Fluorobenzene	673830	7.865	811527	7.861	83	50 - 200	0.0040	+/-0.50	
Chlorobenzene-d5	278317	10.997	356845	10.993	78	50 - 200	0.0040	+/-0.50	
1,4-Dichlorobenzene-d4	212942	13.4	238939	13.397	89	50 - 200	0.0030	+/-0.50	
LCS (1I28025-BS1)			Lab File ID: 0928LCS1.D			Analyzed: 09/28/11 10:37			
Fluorobenzene	661097	7.871	673830	7.865	98	50 - 200	0.0060	+/-0.50	
Chlorobenzene-d5	288634	11.004	278317	10.997	104	50 - 200	0.0070	+/-0.50	
1,4-Dichlorobenzene-d4	211465	13.397	212942	13.4	99	50 - 200	-0.0030	+/-0.50	
Blank (1I28025-BLK1)			Lab File ID: 0928BLK1.D			Analyzed: 09/28/11 12:41			
Fluorobenzene	671787	7.878	673830	7.865	100	50 - 200	0.0130	+/-0.50	
Chlorobenzene-d5	289426	11.01	278317	10.997	104	50 - 200	0.0130	+/-0.50	
1,4-Dichlorobenzene-d4	196414	13.404	212942	13.4	92	50 - 200	0.0040	+/-0.50	
FLC-4-SS02-0006-092211 (1109191-04RE1)			Lab File ID: 0919104R.D			Analyzed: 09/28/11 14:53			
Fluorobenzene	603207	7.866	673830	7.865	90	50 - 200	0.0010	+/-0.50	
Chlorobenzene-d5	213189	10.998	278317	10.997	77	50 - 200	0.0010	+/-0.50	
1,4-Dichlorobenzene-d4	83500	13.401	212942	13.4	39	50 - 200	0.0010	+/-0.50	*
FLC-4-SS02-0624-092211 (1109191-05RE1)			Lab File ID: 0919105R.D			Analyzed: 09/28/11 15:46			
Fluorobenzene	666022	7.87	673830	7.865	99	50 - 200	0.0050	+/-0.50	
Chlorobenzene-d5	281242	11.003	278317	10.997	101	50 - 200	0.0060	+/-0.50	
1,4-Dichlorobenzene-d4	157726	13.396	212942	13.4	74	50 - 200	-0.0040	+/-0.50	
LCS Dup (1I28025-BSD1)			Lab File ID: 0928LCD1.D			Analyzed: 09/28/11 21:30			
Fluorobenzene	660986	7.866	673830	7.865	98	50 - 200	0.0010	+/-0.50	
Chlorobenzene-d5	289141	10.998	278317	10.997	104	50 - 200	0.0010	+/-0.50	
1,4-Dichlorobenzene-d4	219024	13.402	212942	13.4	103	50 - 200	0.0020	+/-0.50	

INTERNAL STANDARD AREA AND RT SUMMARY
SW8260B

Laboratory:	Empirical Laboratories, LLC	SDG:	1109191
Client:	Tetra Tech NUS, Inc. (T010)	Project:	Navy Fuel Depot CTO JM46
Sequence:	1I27207	Instrument:	MS-VOA6
		Calibration:	1258002

Internal Standard	Response	RT	Reference Response	Reference RT	Area %	Area % Limits	RT Diff	RT Diff Limit	Q
Calibration Check (1I27207-CCV1)			Lab File ID: 928CCV1E.D			Analyzed: 09/28/11 20:51			
Fluorobenzene	1063587	7.927	858032	7.903	124	50 - 200	0.0240	+/-0.50	
Chlorobenzene-d5	484964	11.028	403998	11.013	120	50 - 200	0.0150	+/-0.50	
1,4-Dichlorobenzene-d4	400064	13.419	333506	13.405	120	50 - 200	0.0140	+/-0.50	
LCS (1I28022-BS1)			Lab File ID: 928LCS1E.D			Analyzed: 09/28/11 21:18			
Fluorobenzene	1103773	7.924	1063587	7.927	104	50 - 200	-0.0030	+/-0.50	
Chlorobenzene-d5	484504	11.034	484964	11.028	100	50 - 200	0.0060	+/-0.50	
1,4-Dichlorobenzene-d4	401695	13.415	400064	13.419	100	50 - 200	-0.0040	+/-0.50	
Blank (1I28022-BLK1)			Lab File ID: 928BLK1E.D			Analyzed: 09/28/11 22:36			
Fluorobenzene	999759	7.925	1063587	7.927	94	50 - 200	-0.0020	+/-0.50	
Chlorobenzene-d5	449134	11.026	484964	11.028	93	50 - 200	-0.0020	+/-0.50	
1,4-Dichlorobenzene-d4	348672	13.417	400064	13.419	87	50 - 200	-0.0020	+/-0.50	
FLC-4-RB01-092211 (1109191-10)			Lab File ID: 0919110.D			Analyzed: 09/28/11 23:56			
Fluorobenzene	918781	7.927	1063587	7.927	86	50 - 200	0.0000	+/-0.50	
Chlorobenzene-d5	420333	11.027	484964	11.028	87	50 - 200	-0.0010	+/-0.50	
1,4-Dichlorobenzene-d4	323172	13.419	400064	13.419	81	50 - 200	0.0000	+/-0.50	

INITIAL CALIBRATION DATA

SW8260B

Laboratory:	Empirical Laboratories, LLC	SDG:	1109191
Client:	Tetra Tech NUS, Inc. (T010)	Project:	Navy Fuel Depot CTO JM46
Calibration:	1258002	Instrument:	MS-VOA6
Matrix:	Water	Calibration Dates:	9/13/11 14:57 9/13/11 18:30

Compound	Level 01		Level 02		Level 03		Level 04		Level 05		Level 06	
	ug/L	RF	ug/L	RF	ug/L	RF	ug/L	RF	ug/L	RF	ug/L	RF
Acetone	1	~~0.2025603~~	2	0.1457111	4	0.129836	10	0.1096288	20	0.1172883	100	0.1161553
Acetonitrile	5	~~6.673884E-02~~	10	4.082234E-02	20	3.916281E-02	50	4.234248E-02	100	4.195796E-02	500	4.348781E-02
Acrolein	2.502	5.512186E-02	5.005	4.513846E-02	10.01	4.647939E-02	25.02	4.550316E-02	50.05	4.562258E-02	250.2	4.706066E-02
Acrylonitrile	2.498	9.507946E-02	4.997	9.245133E-02	9.994	9.605667E-02	24.98	9.240335E-02	49.97	0.0973469	249.8	0.1006377
Benzene	0.5	1.012489	1	1.019346	2	1.012249	5	1.028983	10	1.048885	50	1.073407
Allyl chloride	0.5	0.5426878	1	0.4788847	2	0.4372163	5	0.4472141	10	0.4545328	50	0.4557156
Bromobenzene	0.5	0.6520267	1	0.6703422	2	0.6835796	5	0.6802636	10	0.6432074	50	0.6990824
Bromochloromethane	0.5	0.1277608	1	0.1425862	2	0.1375576	5	0.1356523	10	0.1427114	50	0.1492161
Tert-Amyl Methyl Ether	0.5	0.9161638	1	0.8802777	2	0.8906859	5	0.8956939	10	0.9091681	50	0.9478054
Bromodichloromethane	0.5	0.3916978	1	0.3932988	2	0.4145342	5	0.3945168	10	0.4054259	50	0.4255933
Bromoform	0.5	0.2752893	1	0.3015285	2	0.3182005	5	0.3170214	10	0.3372792	50	0.3906046
Bromomethane	0.5	0.1566235	1	0.1343555	2	0.136196	5	0.1428968	10	0.1463382	50	0.1578632
Bromofluorobenzene	30	0.8951082	35	0.8715383	40	0.8804214	50	0.847972	60	0.8349991	70	0.8438784
n-Butylbenzene	0.5	1.843014	1	2.07058	2	1.874533	5	1.8611	10	1.908563	50	2.039616
2-Butanone	1	0.2185913	2	0.211796	4	0.2139028	10	0.203933	20	0.2114883	100	0.2227151
sec-Butylbenzene	0.5	2.461807	1	2.512994	2	2.492873	5	2.460693	10	2.515377	50	2.705586
tert-Butylbenzene	0.5	1.97378	1	1.88858	2	2.002003	5	1.958609	10	1.960425	50	2.116269
Carbon disulfide	0.5	0.7028582	1	0.62755	2	0.6048156	5	0.6152078	10	0.6705723	50	0.6691913
Carbon tetrachloride	0.5	0.2963466	1	0.3115722	2	0.3214618	5	0.3327848	10	0.3487612	50	0.3656545
Chlorobenzene	0.5	1.445381	1	1.426059	2	1.429195	5	1.433918	10	1.422227	50	1.512426
Chloroethane	0.5	0.1607268	1	0.1591843	2	0.1559997	5	0.159022	10	0.1665614	50	0.1625335
Chloroform	0.5	0.5570148	1	0.5246148	2	0.5195337	5	0.5057294	10	0.5004336	50	0.5217724
2-Chloroethyl vinyl ether	0.9975	0.1792576	1.995	0.1885999	3.99	0.1889613	9.975	0.1964874	19.95	0.201442	99.75	0.2144144
Chloromethane	0.5	0.3054575	1	0.2771807	2	0.284681	5	0.2643817	10	0.3010329	50	0.3031173
1-Chlorohexane	0.5	1.003537	1	0.8934638	2	0.7790349	5	0.7227957	10	0.7002461	50	0.7353481
2-Chlorotoluene	0.5	2.104186	1	2.087544	2	2.107453	5	2.074577	10	2.041034	50	2.181487
Chloroprene	0.5	0.5718982	1	0.5211654	2	0.5582105	5	0.538903	10	0.5791737	50	0.5888372
4-Chlorotoluene	0.5	2.390102	1	2.410669	2	2.383228	5	2.380563	10	2.36417	50	2.55075
Cyclohexane	0.5	0.5181371	1	0.4928189	2	0.4986614	5	0.4805975	10	0.5031449	50	0.5024042
Dibromochloromethane	0.5	0.5118308	1	0.5404977	2	0.5669012	5	0.56378	10	0.5735861	50	0.6481355
1,2-Dibromo-3-chloropropane	0.5	0.1331146	1	0.1351693	2	0.1416032	5	0.1291551	10	0.1325067	50	0.1482053

INITIAL CALIBRATION DATA

SW8260B

Laboratory: Empirical Laboratories, LLC

SDG: 1109191

Client: Tetra Tech NUS, Inc. (T010)

Project: Navy Fuel Depot CTO JM46

Calibration: 1258002

Instrument: MS-VOA6

Matrix: Water

Calibration Dates: 9/13/11 14:57 9/13/11 18:30

Compound	Level 01		Level 02		Level 03		Level 04		Level 05		Level 06	
	ug/L	RF	ug/L	RF	ug/L	RF	ug/L	RF	ug/L	RF	ug/L	RF
1,2-Dibromoethane (EDB)	0.5	0.5714543	1	0.5492779	2	0.5720933	5	0.5653543	10	0.5607722	50	0.6045733
Dibromomethane	0.5	0.1880594	1	0.1957956	2	0.1943835	5	0.1922236	10	0.1936848	50	0.2017494
1,2-Dichlorobenzene	0.5	1.043062	1	1.151465	2	1.170164	5	1.124382	10	1.138074	50	1.195595
1,3-Dichlorobenzene	0.5	1.166965	1	1.204071	2	1.201804	5	1.182671	10	1.172136	50	1.249796
trans-1,4-Dichloro-2-butene	0.5	0.4367314	1	0.3917022	2	0.4069838	5	0.3883828	10	0.3840793	50	0.4150198
cis-1,4-Dichloro-2-butene	0.5	0.2561146	1	0.2709702	2	0.2905464	5	0.283749	10	0.2817231	50	0.3177409
1,4-Dichlorobenzene	0.5	1.206701	1	1.21887	2	1.250038	5	1.208776	10	1.190408	50	1.264017
Dichlorodifluoromethane	0.5	0.2286063	1	0.2222296	2	0.2251319	5	0.2082929	10	0.2692399	50	0.274137
1,1-Dichloroethane	0.5	0.5403927	1	0.5468138	2	0.5510232	5	0.5598113	10	0.5660451	50	0.5760678
1,2-Dichloroethane	0.5	0.5091653	1	0.5133103	2	0.535132	5	0.5264139	10	0.5289745	50	0.5375092
1,1-Dichloroethene	0.5	0.2215123	1	0.1901946	2	0.1936768	5	0.1835806	10	0.1809237	50	0.1920659
cis-1,2-Dichloroethene	0.5	0.2759689	1	0.2809375	2	0.275684	5	0.2810175	10	0.2794099	50	0.2857354
trans-1,2-Dichloroethene	0.5	0.2543393	1	0.2569625	2	0.2506923	5	0.2396904	10	0.2432336	50	0.2414877
1,2-Dichloroethene (total)	1	0.2651541	2	0.26895	4	0.2631881	10	0.2603539	20	0.2613217	100	0.2636116
1,2-Dichloropropane	0.5	0.3129687	1	0.2920712	2	0.314964	5	0.3197433	10	0.3175197	50	0.3227427
1,3-Dichloropropane	0.5	0.8999091	1	0.9157803	2	0.9604611	5	0.9358264	10	0.9264139	50	0.9791751
2,2-Dichloropropane	0.5	0.4652106	1	0.4221918	2	0.4329419	5	0.410635	10	0.4295269	50	0.4285419
1,1-Dichloropropene	0.5	0.3910023	1	0.3838045	2	0.3976261	5	0.3911952	10	0.3995013	50	0.3999589
cis-1,3-Dichloropropene	0.5	0.463611	1	0.4327107	2	0.4665514	5	0.4660316	10	0.461037	50	0.4868566
trans-1,3-Dichloropropene	0.5	1.021709	1	0.9951684	2	1.053659	5	1.046248	10	1.05344	50	1.097596
Diisopropyl Ether	0.5	1.396814	1	1.292429	2	1.347844	5	1.348943	10	1.376833	50	1.386673
1,4-Dioxane	10	2.465498E-03	20	2.708284E-03	40	2.585345E-03	100	2.794651E-03	200	2.793109E-03	1000	2.989768E-03
Ethylbenzene	0.5	2.457479	1	2.380473	2	2.475882	5	2.469799	10	2.459088	50	2.642813
Ethyl tert-Butyl Ether	0.5	1.12008	1	1.086968	2	1.14498	5	1.122042	10	1.135052	50	1.183627
Ethyl Methacrylate	0.5	0.9186823	1	0.9131462	2	0.8967468	5	0.8920737	10	0.8816809	50	0.9623694
Hexachlorobutadiene	0.5	0.3121058	1	0.2844149	2	0.2816563	5	0.2708137	10	0.2880372	50	0.3057296
Hexane	0.4982	0.3915076	0.9965	0.324182	1.993	0.3167794	4.982	0.3187651	9.965	0.345999	49.82	0.3489789
2-Hexanone	1	0.6942306	2	0.6203614	4	0.6418341	10	0.5964609	20	0.622888	100	0.682274
Iodomethane	0.5	~~0.1446611~~	1	0.1803929	2	0.192522	5	0.2261244	10	0.2506887	50	0.2997653
Isobutyl alcohol	10	1.911543E-02	20	1.668002E-02	40	1.717703E-02	100	1.539873E-02	200	1.596719E-02	1000	1.744178E-02
Isopropylbenzene	0.5	1.963069	1	2.060213	2	2.029325	5	2.043946	10	2.062737	50	2.231013

INITIAL CALIBRATION DATA

SW8260B

Laboratory: Empirical Laboratories, LLC

SDG: 1109191

Client: Tetra Tech NUS, Inc. (T010)

Project: Navy Fuel Depot CTO JM46

Calibration: 1258002

Instrument: MS-VOA6

Matrix: Water

Calibration Dates: 9/13/11 14:57 9/13/11 18:30

Compound	Level 01		Level 02		Level 03		Level 04		Level 05		Level 06	
	ug/L	RF	ug/L	RF	ug/L	RF	ug/L	RF	ug/L	RF	ug/L	RF
p-Isopropyltoluene	0.5	2.109424	1	2.114073	2	2.118759	5	2.091327	10	2.094262	50	2.222574
Methacrylonitrile	5	0.2729157	10	0.2817162	20	0.2854049	50	0.2777351	100	0.2815552	500	0.288832
Methylene chloride	0.5	0.3300081	1	0.2647493	2	0.2436774	5	0.2293131	10	0.2281537	50	0.220352
Methyl Acetate	0.5	0.2755516	1	0.30078	2	0.2736329	5	0.2335647	10	0.2429932	50	0.2577989
Methylcyclohexane	0.5	0.3502468	1	0.3188125	2	0.3190488	5	0.3203237	10	0.3291036	50	0.3437828
Naphthalene	0.5	1.64271	1	1.535768	2	1.579974	5	1.449095	10	1.456422	50	1.575249
Methyl Methacrylate	0.5	0.4182653	1	0.3884151	2	0.4153615	5	0.3912162	10	0.4044113	50	0.412795
4-Methyl-2-pentanone	1	0.4113452	2	0.4094188	4	0.4197394	10	0.4081596	20	0.4078632	100	0.4339199
Methyl t-Butyl Ether	0.5	0.8135796	1	0.8137488	2	0.8448218	5	0.8349479	10	0.8366813	50	0.8440215
n-Propylbenzene	0.5	3.333283	1	3.242529	2	3.29175	5	3.17809	10	3.204302	50	3.484074
Propionitrile	5	5.391408E-02	10	5.129346E-02	20	5.106057E-02	50	4.942123E-02	100	5.000412E-02	500	5.135697E-02
Styrene	0.5	1.508159	1	1.539544	2	1.576131	5	1.56831	10	1.602108	50	1.704637
1,1,2,2-Tetrachloroethane	0.5	0.8293924	1	0.858749	2	0.8920637	5	0.8218323	10	0.836417	50	0.8977279
1,1,1,2-Tetrachloroethane	0.5	0.4799916	1	0.5001817	2	0.5138307	5	0.4987747	10	0.4942518	50	0.5434963
tert-Butyl alcohol	2.5	3.432919E-02	5	3.239695E-02	10	3.288559E-02	25	3.132331E-02	50	2.930228E-02	250	3.006676E-02
Tetrachloroethene	0.5	0.4645225	1	0.4560609	2	0.4651735	5	0.4673637	10	0.4634311	50	0.4873334
Toluene	0.5	1.284083	1	1.298892	2	1.273544	5	1.285833	10	1.28507	50	1.33459
1,2,3-Trichlorobenzene	0.5	0.5781544	1	0.558453	2	0.5361409	5	0.5203265	10	0.5193367	50	0.5660439
1,2,4-Trichlorobenzene	0.5	0.7031412	1	0.6649282	2	0.6549946	5	0.5960133	10	0.6187458	50	0.6666121
1,1,2-Trichloroethane	0.5	0.4475516	1	0.4532805	2	0.4573483	5	0.4537151	10	0.4428391	50	0.4631068
1,1,1-Trichloroethane	0.5	0.384882	1	0.4004025	2	0.4017626	5	0.4094113	10	0.4212622	50	0.4340432
Tetrahydrofuran	0.5	~~0.1687945~~	1	0.140742	2	0.1313183	5	0.107031	10	0.1043258	50	0.1114998
Trichloroethene	0.5	0.2667189	1	0.2644078	2	0.261275	5	0.2693326	10	0.2723188	50	0.2775691
Trichlorofluoromethane	0.5	0.3724328	1	0.3780669	2	0.3792874	5	0.3818739	10	0.4127502	50	0.4187662
1,2,3-Trichloropropane	0.5	0.1866801	1	0.2084578	2	0.1952223	5	0.2076396	10	0.1951678	50	0.2095557
1,3,5-Trimethylbenzene	0.5	2.181309	1	2.119397	2	2.223617	5	2.188818	10	2.208112	50	2.363758
1,2,4-Trimethylbenzene	0.5	2.319662	1	2.286779	2	2.312335	5	2.245849	10	2.252409	50	2.446174
1,1,2-Trichloro-1,2,2-trifluoroethan	0.5	0.2027342	1	0.2091492	2	0.1975031	5	0.2032302	10	0.2082168	50	0.2139902
Vinyl chloride	0.5	0.2641456	1	0.2443262	2	0.2484517	5	0.2375925	10	0.2607173	50	0.2597799
m,p-Xylene	1	1.938364	2	1.908754	4	1.915563	10	1.946601	20	1.920622	100	2.080095
o-Xylene	0.5	2.079012	1	2.030726	2	2.050798	5	2.011347	10	1.991375	50	2.13974

INITIAL CALIBRATION DATA

SW8260B

Laboratory:	Empirical Laboratories, LLC	SDG:	1109191
Client:	Tetra Tech NUS, Inc. (T010)	Project:	Navy Fuel Depot CTO JM46
Calibration:	1258002	Instrument:	MS-VOA6
Matrix:	Water	Calibration Dates:	9/13/11 14:57 9/13/11 18:30

Compound	Level 01		Level 02		Level 03		Level 04		Level 05		Level 06	
	ug/L	RF	ug/L	RF	ug/L	RF	ug/L	RF	ug/L	RF	ug/L	RF
Vinyl acetate	0.996	0.6982792	1.992	0.7581075	3.984	0.8172823	9.96	0.8452236	19.92	0.8650183	99.62	0.9280547
Xylenes (total)	1.5	1.985247	3	1.949411	6	1.960642	15	1.968183	30	1.944206	150	2.099977
Dibromofluoromethane	30	0.3148987	35	0.3105525	40	0.3114031	50	0.3100304	60	0.3059853	70	0.3007833
1,2-Dichloroethane-d4	30	6.594251E-02	35	6.521349E-02	40	6.623482E-02	50	6.464654E-02	60	6.459988E-02	70	6.163063E-02
Toluene-d8	30	2.002048	35	1.956807	40	1.961315	50	1.967983	60	1.928561	70	1.932351
1,3,5-Trichlorobenzene	0.5	0.7233703	1	0.7043601	2	0.6972111	5	0.6721858	10	0.6715092	50	0.7324674
Diethyl ether	0.5	0.2270762	1	0.2109934	2	0.2112744	5	0.2057755	10	0.20576	50	0.2102066

INITIAL CALIBRATION DATA (Continued)

SW8260B

Laboratory:	Empirical Laboratories, LLC	SDG:	1109191
Client:	Tetra Tech NUS, Inc. (T010)	Project:	Navy Fuel Depot CTO JM46
Calibration:	1258002	Instrument:	MS-VOA6
Matrix:	Water	Calibration Dates:	9/13/11 14:57 9/13/11 18:30

Compound	Level 07		Level 08		Level 09		Level 10		Level 11		Level 12	
	ug/L	RF	ug/L	RF	ug/L	RF	ug/L	RF	ug/L	RF	ug/L	RF
Acetone	200	0.1166755	300	0.1144909	400	0.1146763						
Acetonitrile	1000	0.0449317	1500	4.491217E-02	2000	4.569825E-02						
Acrolein	500.5	4.965607E-02	750.8	5.040645E-02	1001	5.134519E-02						
Acrylonitrile	499.7	0.1031605	749.6	0.1042654	999.4	0.1069093						
Benzene	100	1.08036	150	1.08988	200	1.106296						
Allyl chloride	100	0.461829	150	0.4664067	200	0.4575453						
Bromobenzene	100	0.7032417	150	0.6914736	200	0.7205662						
Bromochloromethane	100	0.1456423	150	0.1426195	200	0.1411766						
Tert-Amyl Methyl Ether	100	0.967278	150	0.9527552	200	0.968265						
Bromodichloromethane	100	0.4319297	150	0.4320795	200	0.4329709						
Bromoform	100	0.4135953	150	~~0.4237712~~	200	~~0.4401142~~						
Bromomethane	100	0.174302	150	0.1809963	200	0.1864307						
Bromofluorobenzene	30	0.9044906	30	0.9088533	30	0.919014						
n-Butylbenzene	100	2.079648	150	1.985056	200	2.032137						
2-Butanone	200	0.2232973	300	0.2236105	400	0.2245547						
sec-Butylbenzene	100	2.793076	150	2.709122	200	2.757884						
tert-Butylbenzene	100	2.15285	150	2.074602	200	2.135493						
Carbon disulfide	100	0.6842403	150	0.6977567	200	0.7110176						
Carbon tetrachloride	100	0.3765448	150	0.3743512	200	0.374315						
Chlorobenzene	100	1.544425	150	1.553333	200	1.607816						
Chloroethane	100	0.1683823	150	0.1647617	200	0.1655736						
Chloroform	100	0.5201437	150	0.5233394	200	0.5240376						
2-Chloroethyl vinyl ether	199.5	0.2170065	299.2	0.2147974	399	0.2153371						
Chloromethane	100	0.3119887	150	0.3103885	200	0.3221559						
1-Chlorohexane	100	0.7503567	150	0.7558635	200	0.7744302						
2-Chlorotoluene	100	2.191888	150	2.143614	200	2.183054						
Chloroprene	100	0.5943233	150	0.5823561	200	0.5902586						
4-Chlorotoluene	100	2.543333	150	2.484863	200	2.539128						
Cyclohexane	100	0.5188785	150	0.5228505	200	0.5206162						
Dibromochloromethane	100	0.6691122	150	0.6757425	200	0.7043424						
1,2-Dibromo-3-chloropropane	100	0.1585164	150	0.1538009	200	0.1581365						

INITIAL CALIBRATION DATA (Continued)

SW8260B

Laboratory: Empirical Laboratories, LLC
SDG: 1109191
Client: Tetra Tech NUS, Inc. (T010)
Project: Navy Fuel Depot CTO JM46
Calibration: 1258002
Instrument: MS-VOA6
Matrix: Water
Calibration Dates: 9/13/11 14:57 9/13/11 18:30

Compound	Level 07		Level 08		Level 09		Level 10		Level 11		Level 12	
	ug/L	RF	ug/L	RF	ug/L	RF	ug/L	RF	ug/L	RF	ug/L	RF
1,2-Dibromoethane (EDB)	100	0.6187714	150	0.6167109	200	0.6288224						
Dibromomethane	100	0.2039875	150	0.201025	200	0.203185						
1,2-Dichlorobenzene	100	1.243658	150	1.188325	200	1.239112						
1,3-Dichlorobenzene	100	1.282804	150	1.25716	200	1.29033						
trans-1,4-Dichloro-2-butene	100	0.4205755	150	0.3984384	200	0.3967927						
cis-1,4-Dichloro-2-butene	100	0.3279401	150	0.3136546	200	0.3212571						
1,4-Dichlorobenzene	100	1.289009	150	1.257396	200	1.295522						
Dichlorodifluoromethane	100	0.2718626	150	0.2754207	200	0.2759096						
1,1-Dichloroethane	100	0.5704305	150	0.5811296	200	0.5955877						
1,2-Dichloroethane	100	0.5402458	150	0.5295547	200	0.5230952						
1,1-Dichloroethene	100	0.1949912	150	0.1981413	200	0.2037595						
cis-1,2-Dichloroethene	100	0.2851411	150	0.2891809	200	0.2936416						
trans-1,2-Dichloroethene	100	0.2510613	150	0.2544983	200	0.2638378						
1,2-Dichloroethene (total)	200	0.2681012	300	0.2718396	400	0.2787397						
1,2-Dichloropropane	100	0.3243318	150	0.3239879	200	0.3236542						
1,3-Dichloropropane	100	0.9964303	150	0.9870319	200	1.017231						
2,2-Dichloropropane	100	0.4199076	150	0.4155449	200	0.413344						
1,1-Dichloropropene	100	0.409026	150	0.4056769	200	0.405036						
cis-1,3-Dichloropropene	100	0.491748	150	0.4884704	200	0.4918617						
trans-1,3-Dichloropropene	100	1.112863	150	1.102736	200	1.131884						
Diisopropyl Ether	100	1.404357	150	1.407936	200	1.431034						
1,4-Dioxane	2000	3.111039E-03	3000	3.115727E-03	4000	3.101045E-03						
Ethylbenzene	100	2.692985	150	2.735396	200	2.816156						
Ethyl tert-Butyl Ether	100	1.182907	150	1.173294	200	1.183799						
Ethyl Methacrylate	100	0.9589001	150	0.9705522	200	1.007765						
Hexachlorobutadiene	100	0.3188338	150	0.3152535	200	0.3271351						
Hexane	99.65	0.3524343	149.5	0.3483596	199.3	0.3531751						
2-Hexanone	200	0.6793857	300	0.6756797	400	0.6820493						
Iodomethane	100	0.3107297	150	0.313973	200	0.3182309						
Isobutyl alcohol	2000	1.787289E-02	3000	1.787843E-02	4000	0.0177109						
Isopropylbenzene	100	2.23725	150	2.296142	200	2.331245						

INITIAL CALIBRATION DATA (Continued)

SW8260B

Laboratory: Empirical Laboratories, LLC
SDG: 1109191
Client: Tetra Tech NUS, Inc. (T010)
Project: Navy Fuel Depot CTO JM46
Calibration: 1258002
Instrument: MS-VOA6
Matrix: Water
Calibration Dates: 9/13/11 14:57 9/13/11 18:30

Compound	Level 07		Level 08		Level 09		Level 10		Level 11		Level 12	
	ug/L	RF	ug/L	RF	ug/L	RF	ug/L	RF	ug/L	RF	ug/L	RF
p-Isopropyltoluene	100	2.292945	150	2.268964	200	2.306926						
Methacrylonitrile	1000	0.2842293	1500	0.2728792	2000	0.2655311						
Methylene chloride	100	0.2219804	150	0.2252686	200	0.2311264						
Methyl Acetate	100	0.2556234	150	0.258417	200	0.2575204						
Methylcyclohexane	100	0.3501692	150	0.3518043	200	0.3595688						
Naphthalene	100	1.686319	150	1.633381	200	1.724235						
Methyl Methacrylate	100	0.4222154	150	0.4087355	200	0.4074361						
4-Methyl-2-pentanone	200	0.4411978	300	0.429964	400	0.4288896						
Methyl t-Butyl Ether	100	0.8574469	150	0.8627605	200	0.8841276						
n-Propylbenzene	100	3.462267	150	3.433123	200	3.483227						
Propionitrile	1000	5.144793E-02	1500	5.093901E-02	2000	5.141434E-02						
Styrene	100	1.730752	150	1.747169	200	1.780947						
1,1,2,2-Tetrachloroethane	100	0.8977024	150	0.8702267	200	0.8893335						
1,1,1,2-Tetrachloroethane	100	0.5568762	150	0.5642541	200	0.5792642						
tert-Butyl alcohol	500	3.072704E-02	750	3.097659E-02	1000	3.113947E-02						
Tetrachloroethene	100	0.501375	150	0.5116784	200	0.5298307						
Toluene	100	1.340263	150	1.328356	200	1.36351						
1,2,3-Trichlorobenzene	100	0.597398	150	0.574394	200	0.6031484						
1,2,4-Trichlorobenzene	100	0.6918151	150	0.6707748	200	0.6960391						
1,1,2-Trichloroethane	100	0.4644598	150	0.4622911	200	0.4723133						
1,1,1-Trichloroethane	100	0.4349489	150	0.4336358	200	0.4291253						
Tetrahydrofuran	100	0.1160592	150	0.1135105	200	0.114872						
Trichloroethene	100	0.2835195	150	0.2829871	200	0.2859771						
Trichlorofluoromethane	100	0.4231154	150	0.4156056	200	0.4086547						
1,2,3-Trichloropropane	100	0.2144116	150	0.211841	200	0.213758						
1,3,5-Trimethylbenzene	100	2.393797	150	2.318602	200	2.389455						
1,2,4-Trimethylbenzene	100	2.427362	150	2.373065	200	2.417867						
1,1,2-Trichloro-1,2,2-trifluoroethan	100	0.2221093	150	0.2222891	200	0.2274684						
Vinyl chloride	100	0.265811	150	0.2645491	200	0.2673915						
m,p-Xylene	200	2.103691	300	2.111833	400	1.932533						
o-Xylene	100	2.163759	150	2.170816	200	2.212979						

INITIAL CALIBRATION DATA (Continued)

SW8260B

Laboratory:	Empirical Laboratories, LLC	SDG:	1109191
Client:	Tetra Tech NUS, Inc. (T010)	Project:	Navy Fuel Depot CTO JM46
Calibration:	1258002	Instrument:	MS-VOA6
Matrix:	Water	Calibration Dates:	9/13/11 14:57 9/13/11 18:30

Compound	Level 07		Level 08		Level 09		Level 10		Level 11		Level 12	
	ug/L	RF	ug/L	RF	ug/L	RF	ug/L	RF	ug/L	RF	ug/L	RF
Vinyl acetate	199.2	0.9331187	298.9	0.926519	398.5	0.9642979						
Xylenes (total)	300	2.123714	450	2.131493	600	2.026014						
Dibromofluoromethane	30	0.3180859	30	0.3156314	30	0.3166727						
1,2-Dichloroethane-d4	30	6.421959E-02	30	6.567008E-02	30	6.650076E-02						
Toluene-d8	30	1.973032	30	1.97269	30	2.05799						
1,3,5-Trichlorobenzene	100	0.764239	150	0.7326603	200	0.7606563						
Diethyl ether	100	0.2122217	150	0.2177108	200	0.2205556						

INITIAL CALIBRATION DATA (Continued)

SW8260B

Laboratory:	Empirical Laboratories, LLC	SDG:	1109191
Client:	Tetra Tech NUS, Inc. (T010)	Project:	Navy Fuel Depot CTO JM46
Calibration:	1258002	Instrument:	MS-VOA6
Matrix:	Water	Calibration Dates:	9/13/11 14:57 9/13/11 18:30

Compound	Mean RF	RF RSD	Mean RT	RT RSD	Linear r	Quad COD	LIMIT	Q
Acetone	0.1205578	9.687295	3.774875	0.1224781			15	
Acetonitrile	4.291444E-02	5.272112	3.845125	7.659699E-02			15	
Acrolein	4.848154E-02	6.980569	3.654778	0.1096685			15	
Acrylonitrile	9.870118E-02	5.344786	4.607222	0.1583335			15	
Benzene	1.052433	3.42443	7.641889	5.881455E-02			15	
Allyl chloride	0.4668925	6.578725	4.670778	9.108382E-02			15	
Bromobenzene	0.6826426	3.610985	12.36811	1.539211E-02			15	
Bromochloromethane	0.140547	4.436461	6.738556	0.0432367			15	
Tert-Amyl Methyl Ether	0.9253437	3.687357	7.835556	4.824906E-02			15	
Bromodichloromethane	0.4135608	4.291761	8.622556	0.0459804			15	
Bromoform	0.336217	14.64914	11.77686	2.346656E-02			SPCC (0.1)	
Bromomethane	0.1573336	12.30692	2.825556	0.1340577			15	
Bromofluorobenzene	0.878475	3.50609	12.20544	3.205571E-02			15	
n-Butylbenzene	1.966027	4.818819	13.79511	2.510454E-02			15	
2-Butanone	0.2170988	3.310907	6.212667	8.854368E-02			15	
sec-Butylbenzene	2.601046	5.263794	13.25522	0.0168091			15	
tert-Butylbenzene	2.029179	4.594246	13.02311	3.061215E-02			15	
Carbon disulfide	0.6648011	5.956892	4.766778	8.314131E-02			15	
Carbon tetrachloride	0.3446436	8.790892	7.608889	4.578012E-02			15	
Chlorobenzene	1.486087	4.682253	11.05244	3.120293E-02			SPCC (0.3)	
Chloroethane	0.1625273	2.519463	2.959111	9.369155E-02			15	
Chloroform	0.5218466	3.013169	6.716889	6.679279E-02			CCC (20)	
2-Chloroethyl vinyl ether	0.2018115	7.047183	8.981222	3.489983E-02			15	
Chloromethane	0.2978205	6.24167	2.244111	0.1419306			SPCC (0.1)	
1-Chlorohexane	0.790564	12.24414	11.01889	2.782658E-02			15	
2-Chlorotoluene	2.123871	2.530433	12.589	2.500628E-02			15	
Chloroprene	0.5694584	4.427518	6.017889	0.0730229			15	
4-Chlorotoluene	2.449645	3.220879	12.65133	0.0327337			15	
Cyclohexane	0.5064566	2.880723	7.539	0.0447776			15	
Dibromochloromethane	0.6059921	11.34527	10.29022	3.142678E-02			15	
1,2-Dibromo-3-chloropropane	0.1433564	8.087151	14.39778	2.960806E-02			15	
1,2-Dibromoethane (EDB)	0.5875367	5.031314	10.50033	2.392711E-02			15	

INITIAL CALIBRATION DATA (Continued)

SW8260B

Laboratory:	Empirical Laboratories, LLC	SDG:	1109191
Client:	Tetra Tech NUS, Inc. (T010)	Project:	Navy Fuel Depot CTO JM46
Calibration:	1258002	Instrument:	MS-VOA6
Matrix:	Water	Calibration Dates:	9/13/11 14:57 9/13/11 18:30

Compound	Mean RF	RF RSD	Mean RT	RT RSD	Linear r	Quad COD	LIMIT	Q
Dibromomethane	0.1971215	2.823059	8.559111	3.380959E-02			15	
1,2-Dichlorobenzene	1.165982	5.30465	13.755	2.189561E-02			15	
1,3-Dichlorobenzene	1.223082	3.895014	13.34467	1.660648E-02			15	
trans-1,4-Dichloro-2-butene	0.4043007	4.239626	12.16789	3.988439E-02			15	
cis-1,4-Dichloro-2-butene	0.2959662	8.48351	11.85722	1.707596E-02			15	
1,4-Dichlorobenzene	1.242304	3.039538	13.43778	3.775295E-02			15	
Dichlorodifluoromethane	0.2500923	11.25192	2.026333	0.1256169			15	
1,1-Dichloroethane	0.5652557	3.131601	5.755222	4.671026E-02			SPCC (0.1)	
1,2-Dichloroethane	0.5270445	1.994005	7.474556	5.584797E-02			15	
1,1-Dichloroethene	0.1954273	6.13466	4.236444	9.543841E-02			CCC (20)	
cis-1,2-Dichloroethene	0.2829685	2.11867	6.464222	8.195503E-02			15	
trans-1,2-Dichloroethene	0.2506448	3.158602	5.382333	4.563419E-02			15	
1,2-Dichloroethene (total)	0.2668066	2.184513	0	0			15	
1,2-Dichloropropane	0.3168871	3.213076	8.448889	3.365111E-02			CCC (20)	
1,3-Dichloropropane	0.9575843	4.197904	10.03122	4.193362E-02			15	
2,2-Dichloropropane	0.4264272	3.853406	6.568889	6.836368E-02			15	
1,1-Dichloropropene	0.3980919	2.050297	7.488667	3.238935E-02			15	
cis-1,3-Dichloropropene	0.4720976	4.153466	9.193556	3.964417E-02			15	
trans-1,3-Dichloropropene	1.068367	4.252531	9.664889	3.211923E-02			15	
Diisopropyl Ether	1.376985	3.027222	6.130333	3.859198E-02			15	
1,4-Dioxane	2.851607E-03	8.45963	8.609444	6.024487E-02			15	
Ethylbenzene	2.570008	5.96735	11.19822	2.864721E-02			CCC (20)	
Ethyl tert-Butyl Ether	1.148083	3.042998	6.593333	3.762048E-02			15	
Ethyl Methacrylate	0.9335463	4.599985	9.855	4.943664E-02			15	
Hexachlorobutadiene	0.3004422	6.526226	15.754	1.794061E-02			15	
Hexane	0.3444646	6.674385	5.958889	7.419289E-02			15	
2-Hexanone	0.6550182	5.36188	9.966889	2.629714E-02			15	
Iodomethane	0.2615534	21.70705	4.432875	6.469751E-02	0.9998293		0.995	
Isobutyl alcohol	1.724916E-02	6.454047	6.821556	9.267301E-02			15	
Isopropylbenzene	2.139438	6.266823	12.09589	0.0235622			15	
p-Isopropyltoluene	2.179917	4.194532	13.39289	0.0222104			15	
Methacrylonitrile	0.2789776	2.647557	6.381	0.2380406			15	

INITIAL CALIBRATION DATA (Continued)

SW8260B

Laboratory:	Empirical Laboratories, LLC	SDG:	1109191
Client:	Tetra Tech NUS, Inc. (T010)	Project:	Navy Fuel Depot CTO JM46
Calibration:	1258002	Instrument:	MS-VOA6
Matrix:	Water	Calibration Dates:	9/13/11 14:57 9/13/11 18:30

Compound	Mean RF	RF RSD	Mean RT	RT RSD	Linear r	Quad COD	LIMIT	Q
Methylene chloride	0.2438477	14.39367	4.722222	6.406583E-02			15	
Methyl Acetate	0.2617647	7.499968	4.592	9.512777E-02			15	
Methylcyclohexane	0.3380956	4.79907	8.773778	4.976014E-02			15	
Naphthalene	1.587017	6.01227	15.625	2.181913E-02			15	
Methyl Methacrylate	0.4076502	2.827101	8.581334	3.106002E-02			15	
4-Methyl-2-pentanone	0.4211664	3.007595	9.120111	3.050622E-02			15	
Methyl t-Butyl Ether	0.8435707	2.689572	5.389	8.041854E-02			15	
n-Propylbenzene	3.345849	3.677033	12.505	2.762268E-02			15	
Propionitrile	5.120575E-02	2.410489	5.934556	0.1150231			15	
Styrene	1.639751	6.170199	11.67022	2.919399E-02			15	
1,1,2,2-Tetrachloroethane	0.8659383	3.529277	12.02267	2.558354E-02			SPCC (0.3)	
1,1,1,2-Tetrachloroethane	0.5256579	6.805975	11.09633	2.565078E-02			15	
tert-Butyl alcohol	0.0314608	4.850766	4.403889	0.1026763			15	
Tetrachloroethene	0.4829744	5.371503	10.39989	2.350423E-02			15	
Toluene	1.31046	2.4204	9.667	3.971049E-02			CCC (20)	
1,2,3-Trichlorobenzene	0.5614884	5.49401	15.91	2.023116E-02			15	
1,2,4-Trichlorobenzene	0.6625627	5.367651	15.47256	2.423506E-02			15	
1,1,2-Trichloroethane	0.457434	1.99802	9.819111	2.430674E-02			15	
1,1,1-Trichloroethane	0.4166082	4.36868	7.270111	0.0409493			15	
Tetrahydrofuran	0.1174198	10.55463	6.934	4.856623E-02			15	
Trichloroethene	0.2737895	3.314345	8.398667	4.706414E-02			15	
Trichlorofluoromethane	0.3989503	5.134027	3.453333	7.408229E-02			15	
1,2,3-Trichloropropane	0.2047482	4.819765	12.14944	2.556525E-02			15	
1,3,5-Trimethylbenzene	2.265207	4.514474	12.68311	1.603748E-02			15	
1,2,4-Trimethylbenzene	2.342389	3.256804	13.05489	3.544193E-02			15	
1,1,2-Trichloro-1,2,2-trifluoroethane	0.2118545	4.855379	4.314	9.308264E-02			15	
Vinyl chloride	0.2569739	4.185694	2.382889	0.1508775			CCC (20)	
m,p-Xylene	1.984228	4.37884	11.31178	4.639836E-02			15	
o-Xylene	2.094506	3.792232	11.70022	2.042205E-02			15	
Vinyl acetate	0.8595446	10.39629	5.833111	4.834157E-02			15	
Xylenes (total)	2.020987	3.822958	0	0			15	
Dibromofluoromethane	0.3115604	1.783618	6.886111	4.295847E-02			15	

INITIAL CALIBRATION DATA (Continued)

SW8260B

Laboratory:	Empirical Laboratories, LLC	SDG:	1109191
Client:	Tetra Tech NUS, Inc. (T010)	Project:	Navy Fuel Depot CTO JM46
Calibration:	1258002	Instrument:	MS-VOA6
Matrix:	Water	Calibration Dates:	9/13/11 14:57 9/13/11 18:30

Compound	Mean RF	RF RSD	Mean RT	RT RSD	Linear r	Quad COD	LIMIT	Q
1,2-Dichloroethane-d4	6.496203E-02	2.269836	7.380333	3.127819E-02			15	
Toluene-d8	1.972531	1.97295	9.592889	2.660194E-02			15	
1,3,5-Trichlorobenzene	0.7176288	4.74805	14.91822	1.420438E-02			15	
Diethyl ether	0.2135082	3.291587	3.887444	8.870748E-02			15	

INITIAL CALIBRATION DATA

SW8260B

Laboratory:	Empirical Laboratories, LLC	SDG:	1109191
Client:	Tetra Tech NUS, Inc. (T010)	Project:	Navy Fuel Depot CTO JM46
Calibration:	1266001	Instrument:	MS-VOA5
Matrix:	Water	Calibration Dates:	9/22/11 14:24 9/22/11 17:30

Compound	Level 01		Level 02		Level 03		Level 04		Level 05		Level 06	
	ug/L	RF	ug/L	RF	ug/L	RF	ug/L	RF	ug/L	RF	ug/L	RF
Acetone	4	0.1188625	10	9.608079E-02	20	8.819769E-02	40	8.823181E-02	80	8.616095E-02	200	8.707862E-02
Acetonitrile	20	4.898592E-02	50	4.359449E-02	100	4.350874E-02	200	4.351297E-02	400	4.178957E-02	1000	4.151948E-02
Acrolein	10.01	~~2.817512E-02~~	25.02	2.816848E-02	50.05	3.252845E-02	100.1	0.0338988	200.2	3.522584E-02	500.5	3.992546E-02
Acrylonitrile	9.992	9.187519E-02	24.98	8.578503E-02	49.97	8.980942E-02	99.94	9.217756E-02	199.9	9.058561E-02	499.7	0.0922519
Benzene	2	1.164915	5	1.157804	10	1.221273	20	1.178445	40	1.179245	100	1.162396
Allyl chloride	2	0.1368786	5	0.1510169	10	0.1542804	20	0.1560521	40	0.1598552	100	0.162725
Bromobenzene	2	0.8101757	5	0.7461885	10	0.7879815	20	0.7543536	40	0.7579366	100	0.7572709
Bromochloromethane	2	0.1199427	5	0.1259475	10	0.1308758	20	0.1232196	40	0.1236407	100	0.125923
Tert-Amyl Methyl Ether	2	0.7373063	5	0.6899755	10	0.7367088	20	0.7415262	40	0.7577652	100	0.7697919
Bromodichloromethane	2	0.3533468	5	0.3698866	10	0.3827911	20	0.3774126	40	0.384594	100	0.400482
Bromoform	2	0.2638254	5	0.2496145	10	0.2799857	20	0.295498	40	0.2974069	100	0.3324135
Bromomethane	2	0.1306169	5	0.1060092	10	0.106625	20	0.1044827	40	0.1068159	100	0.1282037
Bromofluorobenzene	35	0.8226933	40	0.803422	50	0.766571	60	0.7438524	70	0.7367088	30	0.9124498
n-Butylbenzene	2	1.943685	5	1.98105	10	2.148734	20	2.136533	40	2.340593	100	2.431936
2-Butanone	4	0.1726271	10	0.1678485	20	0.1580309	40	0.1631887	80	0.1557617	200	0.1645824
sec-Butylbenzene	2	2.732032	5	2.912352	10	3.086396	20	3.119491	40	3.360377	100	3.389619
tert-Butylbenzene	2	1.750213	5	1.862417	10	2.009377	20	1.983644	40	2.157432	100	2.158381
Carbon disulfide	2	1.08181	5	1.057096	10	1.101243	20	1.046303	40	1.049007	100	1.089407
Carbon tetrachloride	2	0.2766135	5	0.2657014	10	0.2832791	20	0.2781294	40	0.2876515	100	0.3026543
Chlorobenzene	2	1.356756	5	1.350696	10	1.458062	20	1.377909	40	1.396614	100	1.433389
Chloroethane	2	0.1769755	5	0.1702583	10	0.1721202	20	0.1565807	40	0.1651541	100	0.1698953
Chloroform	2	0.5327757	5	0.5261903	10	0.5427434	20	0.525099	40	0.5238481	100	0.5325286
2-Chloroethyl vinyl ether	3.99		9.975		19.95		39.9	8.412619E-04	79.8	5.865055E-04	199.5	8.476713E-04
Chloromethane	2	0.3375277	5	0.2931955	10	0.309152	20	0.2883527	40	0.2952492	100	0.324289
1-Chlorohexane	2	0.9155058	5	0.8306386	10	0.8832324	20	0.8600583	40	0.8856693	100	0.9041084
2-Chlorotoluene	2	2.510822	5	2.511687	10	2.573761	20	2.472719	40	2.551398	100	2.459922
Chloroprene	2	0.4652884	5	0.4735527	10	0.4857912	20	0.5002643	40	0.5057114	100	0.5197473
4-Chlorotoluene	2	2.603352	5	2.51961	10	2.751922	20	2.665823	40	2.728579	100	2.713223
Cyclohexane	2	0.5873733	5	0.5690774	10	0.6056889	20	0.5734745	40	0.5970198	100	0.5903798
Dibromochloromethane	2	0.4732461	5	0.4636565	10	0.5028859	20	0.4982752	40	0.4978813	100	0.545254
1,2-Dibromo-3-chloropropane	2	0.1090755	5	0.1033475	10	0.105521	20	0.1096786	40	0.1106224	100	0.1175319

INITIAL CALIBRATION DATA

SW8260B

Laboratory: Empirical Laboratories, LLC
SDG: 1109191
Client: Tetra Tech NUS, Inc. (T010)
Project: Navy Fuel Depot CTO JM46
Calibration: 1266001
Instrument: MS-VOA5
Matrix: Water
Calibration Dates: 9/22/11 14:24 9/22/11 17:30

Compound	Level 01		Level 02		Level 03		Level 04		Level 05		Level 06	
	ug/L	RF	ug/L	RF	ug/L	RF	ug/L	RF	ug/L	RF	ug/L	RF
1,2-Dibromoethane (EDB)	2	0.4509628	5	0.4220681	10	0.4797263	20	0.4939077	40	0.4746866	100	0.5148309
Dibromomethane	2	0.1737348	5	0.1769242	10	0.1761072	20	0.1834967	40	0.1791803	100	0.1862789
1,2-Dichlorobenzene	2	1.112375	5	1.085763	10	1.150975	20	1.126078	40	1.162096	100	1.158334
1,3-Dichlorobenzene	2	1.244462	5	1.229206	10	1.268924	20	1.209214	40	1.272361	100	1.249193
trans-1,4-Dichloro-2-butene	2	0.225381	5	0.2160054	10	0.2311216	20	0.2249758	40	0.2333914	100	0.2352946
cis-1,4-Dichloro-2-butene	2	0.2246858	5	0.1993589	10	0.1993892	20	0.2176246	40	0.2124895	100	0.2234195
1,4-Dichlorobenzene	2	1.222633	5	1.139838	10	1.208323	20	1.125143	40	1.204301	100	1.198643
Dichlorodifluoromethane	2	0.259824	5	0.2436499	10	0.2561461	20	0.2137138	40	0.2144521	100	0.2722202
1,1-Dichloroethane	2	0.5840777	5	0.6227085	10	0.6224054	20	0.6226078	40	0.6237567	100	0.6328869
1,2-Dichloroethane	2	0.376581	5	0.3556354	10	0.3671794	20	0.3688972	40	0.3649393	100	0.3695404
1,1-Dichloroethene	2	0.2554299	5	0.2483063	10	0.2811692	20	0.2661778	40	0.27328	100	0.282963
cis-1,2-Dichloroethene	2	0.282216	5	0.3127705	10	0.3081321	20	0.2996333	40	0.3178148	100	0.3126582
trans-1,2-Dichloroethene	2	0.286006	5	0.2833857	10	0.2944123	20	0.2927241	40	0.2918844	100	0.2940383
1,2-Dichloroethene (total)	4	0.284111	10	0.2980781	20	0.3012722	40	0.2961787	80	0.3048496	200	0.3033483
1,2-Dichloropropane	2	0.3448697	5	0.3472047	10	0.3667914	20	0.3619177	40	0.3573425	100	0.3625825
1,3-Dichloropropane	2	0.7736917	5	0.8276054	10	0.9072388	20	0.8936569	40	0.8861866	100	0.933199
2,2-Dichloropropane	2	0.3866327	5	0.3857097	10	0.3993819	20	0.393022	40	0.3939675	100	0.3969557
1,1-Dichloropropene	2	0.4286154	5	0.4154208	10	0.4402051	20	0.4287528	40	0.4388853	100	0.4326834
cis-1,3-Dichloropropene	2	0.404246	5	0.4105789	10	0.4463537	20	0.4335068	40	0.4483877	100	0.4539123
trans-1,3-Dichloropropene	2	0.8466379	5	0.7986384	10	0.8715436	20	0.8616262	40	0.8717396	100	0.8800429
Diisopropyl Ether	2	1.288629	5	1.310378	10	1.414784	20	1.375793	40	1.366932	100	1.371582
1,4-Dioxane	40	2.448838E-03	100	2.114697E-03	200	2.633294E-03	400	2.317483E-03	800	2.147292E-03	2000	2.097942E-03
Ethylbenzene	2	2.524526	5	2.522062	10	2.713038	20	2.620192	40	2.611558	100	2.698219
Ethyl tert-Butyl Ether	2	0.902326	5	0.9088822	10	0.960257	20	0.945414	40	0.9486436	100	0.9381355
Ethyl Methacrylate	2	0.676276	5	0.6493382	10	0.7013855	20	0.7013633	40	0.7153419	100	0.7764173
Hexachlorobutadiene	2	0.3840236	5	0.4106691	10	0.4281493	20	0.4171567	40	0.4473159	100	0.4851176
Hexane	1.993	0.5652019	4.982	0.5196229	9.965	0.5646991	19.93	0.5175688	39.86	0.5224444	99.65	0.5296424
2-Hexanone	4	0.485607	10	0.4096742	20	0.4295082	40	0.4486843	80	0.4430715	200	0.4642992
Iodomethane	2	4.211087E-02	5	4.723218E-02	10	7.755588E-02	20	0.1098817	40	0.1435081	100	0.2060758
Isobutyl alcohol	40	7.507635E-03	100	6.522045E-03	200	6.769928E-03	400	7.64457E-03	800	7.331402E-03	2000	7.796978E-03
Isopropylbenzene	2	1.792626	5	1.89062	10	2.07693	20	2.030356	40	2.099009	100	2.16183

INITIAL CALIBRATION DATA

SW8260B

Laboratory: Empirical Laboratories, LLC

SDG: 1109191

Client: Tetra Tech NUS, Inc. (T010)

Project: Navy Fuel Depot CTO JM46

Calibration: 1266001

Instrument: MS-VOA5

Matrix: Water

Calibration Dates: 9/22/11 14:24 9/22/11 17:30

Compound	Level 01		Level 02		Level 03		Level 04		Level 05		Level 06	
	ug/L	RF	ug/L	RF	ug/L	RF	ug/L	RF	ug/L	RF	ug/L	RF
p-Isopropyltoluene	2	1.807775	5	1.875809	10	2.002138	20	1.986714	40	2.145415	100	2.192661
Methacrylonitrile	20	0.182157	50	0.1751869	100	0.1805852	200	0.1833797	400	0.1728071	1000	0.1581845
Methylene chloride	2	~~0.5161694~~	5	0.3993381	10	0.3823809	20	0.3450865	40	0.3392196	100	0.3297581
Methyl Acetate	2	0.2399038	5	0.2219616	10	0.2407746	20	0.2254232	40	0.2340525	100	0.2225563
Methylcyclohexane	2	0.4527467	5	0.4733303	10	0.4974381	20	0.4837214	40	0.4891351	100	0.4868038
Naphthalene	2	~~3.166804~~	5	1.478798	10	1.135993	20	0.9146623	40	0.864548	100	0.8365315
Methyl Methacrylate	2	0.3837581	5	0.3703685	10	0.3891614	20	0.3752056	40	0.3664196	100	0.3657247
4-Methyl-2-pentanone	4	0.2803668	10	0.2611599	20	0.2763046	40	0.2836523	80	0.2805431	200	0.2771556
Methyl t-Butyl Ether	2	0.6546775	5	0.6466138	10	0.677669	20	0.6611591	40	0.6703003	100	0.6734204
n-Propylbenzene	2	3.899397	5	3.827781	10	4.119475	20	3.995984	40	4.222248	100	4.164501
Propionitrile	20	3.371066E-02	50	3.007808E-02	100	3.336835E-02	200	3.407022E-02	400	3.326705E-02	1000	3.303451E-02
Styrene	2	1.247148	5	1.328334	10	1.379125	20	1.433988	40	1.459241	100	1.544803
1,1,2,2-Tetrachloroethane	2	0.9663852	5	0.8058121	10	0.8522078	20	0.831683	40	0.8475211	100	0.8611257
1,1,1,2-Tetrachloroethane	2	0.4082462	5	0.4160523	10	0.4464208	20	0.441532	40	0.4541951	100	0.4713202
tert-Butyl alcohol	10	2.382743E-02	25	2.089338E-02	50	2.335877E-02	100	2.548936E-02	200	2.492957E-02	500	2.504395E-02
Tetrachloroethene	2	0.5005326	5	0.4882422	10	0.5254501	20	0.4948493	40	0.5113996	100	0.5243562
Toluene	2	1.504667	5	1.386487	10	1.452805	20	1.429087	40	1.43203	100	1.426
1,2,3-Trichlorobenzene	2	0.5335592	5	0.4879797	10	0.5166362	20	0.4954151	40	0.5013359	100	0.5301162
1,2,4-Trichlorobenzene	2	0.5458641	5	0.5432549	10	0.5587569	20	0.5461394	40	0.5590572	100	0.59795
1,1,2-Trichloroethane	2	0.4343555	5	0.4351951	10	0.4592416	20	0.4451723	40	0.444847	100	0.4740582
1,1,1-Trichloroethane	2	0.3510215	5	0.3659048	10	0.375582	20	0.3704054	40	0.3815275	100	0.3964173
Tetrahydrofuran	2	~~0.1380138~~	5	9.651085E-02	10	8.501254E-02	20	8.936486E-02	40	8.028063E-02	100	8.653894E-02
Trichloroethene	2	0.3276042	5	0.3008327	10	0.3219037	20	0.3153906	40	0.324607	100	0.3216039
Trichlorofluoromethane	2	0.4031658	5	0.4026599	10	0.4144763	20	0.4046187	40	0.413613	100	0.4015066
1,2,3-Trichloropropane	2	0.1262578	5	0.1191874	10	0.1280819	20	0.1353151	40	0.1358833	100	0.140409
1,3,5-Trimethylbenzene	2	2.166285	5	2.223439	10	2.239518	20	2.247178	40	2.391699	100	2.353224
1,2,4-Trimethylbenzene	2	1.959049	5	1.963683	10	2.138372	20	2.037997	40	2.204495	100	2.215494
1,1,2-Trichloro-1,2,2-trifluoroethar	2	0.2907298	5	0.2897995	10	0.3014551	20	0.28997	40	0.2979622	100	0.3027516
Vinyl chloride	2	0.1732404	5	0.1514618	10	0.1418243	20	0.1513074	40	0.1426952	100	0.2020688
m,p-Xylene	4	1.880014	10	1.790373	20	1.878003	40	1.860455	80	1.87021	200	1.815918
o-Xylene	2	1.821047	5	1.83914	10	1.689632	20	1.904226	40	1.945254	100	1.949368

INITIAL CALIBRATION DATA

SW8260B

Laboratory:	Empirical Laboratories, LLC	SDG:	1109191
Client:	Tetra Tech NUS, Inc. (T010)	Project:	Navy Fuel Depot CTO JM46
Calibration:	1266001	Instrument:	MS-VOA5
Matrix:	Water	Calibration Dates:	9/22/11 14:24 9/22/11 17:30

Compound	Level 01		Level 02		Level 03		Level 04		Level 05		Level 06	
	ug/L	RF	ug/L	RF	ug/L	RF	ug/L	RF	ug/L	RF	ug/L	RF
Vinyl acetate	3.985	0.4958381	9.962	0.4686045	19.92	0.5039378	39.84	0.508469	79.68	0.4988072	199.2	0.5101072
Xylenes (total)	6	1.860358	15	1.806629	30	1.815213	60	1.875045	120	1.895224	300	1.860401
Dibromofluoromethane	35	0.2572163	40	0.2563477	50	0.2463793	60	0.2453356	70	0.2506674	30	0.2663096
1,2-Dichloroethane-d4	35	5.281801E-02	40	0.052784	50	5.325856E-02	60	5.140063E-02	70	5.369499E-02	30	0.0537852
Toluene-d8	35	1.947581	40	1.914803	50	1.899645	60	1.80974	70	1.829695	30	2.053775
1,3,5-Trichlorobenzene	2	0.5915381	5	0.6344109	10	0.6790149	20	0.6568601	40	0.6926359	100	0.7159805
Diethyl ether	2	0.2403249	5	0.2282716	10	0.2473519	20	0.2461933	40	0.2445887	100	0.2469677

INITIAL CALIBRATION DATA (Continued)

SW8260B

Laboratory:	Empirical Laboratories, LLC	SDG:	1109191
Client:	Tetra Tech NUS, Inc. (T010)	Project:	Navy Fuel Depot CTO JM46
Calibration:	1266001	Instrument:	MS-VOA5
Matrix:	Water	Calibration Dates:	9/22/11 14:24 9/22/11 17:30

Compound	Level 07		Level 08		Level 09		Level 10		Level 11		Level 12	
	ug/L	RF	ug/L	RF	ug/L	RF	ug/L	RF	ug/L	RF	ug/L	RF
Acetone	300	8.784713E-02	400	8.853479E-02								
Acetonitrile	1500	4.118865E-02	2000	4.091991E-02								
Acrolein	750.8	4.098839E-02	1001	4.163791E-02								
Acrylonitrile	749.6	9.110055E-02	999.4	8.956628E-02								
Benzene	150	1.126204	200	1.047395								
Allyl chloride	150	0.1659473	200	0.1606491								
Bromobenzene	150	0.7573052	200	0.7353153								
Bromochloromethane	150	0.1237866	200	0.1150888								
Tert-Amyl Methyl Ether	150	0.7548499	200	0.7220125								
Bromodichloromethane	150	0.3915467	200	0.3752359								
Bromoform	150	0.3366279	200	0.33451								
Bromomethane	150	0.1363764	200	0.1349997								
Bromofluorobenzene	30	0.9504356	30	0.9194398								
n-Butylbenzene	150	2.425191	200	2.348514								
2-Butanone	300	0.1589538	400	0.1628517								
sec-Butylbenzene	150	3.284333	200	3.220266								
tert-Butylbenzene	150	2.144107	200	2.083879								
Carbon disulfide	150	1.075859	200	1.028814								
Carbon tetrachloride	150	0.3008449	200	0.2890556								
Chlorobenzene	150	1.422392	200	1.325941								
Chloroethane	150	0.1677224	200	0.16835								
Chloroform	150	0.5217077	200	0.4895547								
2-Chloroethyl vinyl ether	299.2	8.450538E-04	399	8.299315E-04								
Chloromethane	150	0.3234763	200	0.3142851								
1-Chlorohexane	150	0.8923649	200	0.8399995								
2-Chlorotoluene	150	2.517548	200	2.389747								
Chloroprene	150	0.5047502	200	0.4870088								
4-Chlorotoluene	150	2.636591	200	2.583894								
Cyclohexane	150	0.5835966	200	0.5394466								
Dibromochloromethane	150	0.5650854	200	0.5522991								
1,2-Dibromo-3-chloropropane	150	0.1170772	200	0.1202803								

INITIAL CALIBRATION DATA (Continued)

SW8260B

Laboratory: Empirical Laboratories, LLC
SDG: 1109191
Client: Tetra Tech NUS, Inc. (T010)
Project: Navy Fuel Depot CTO JM46
Calibration: 1266001
Instrument: MS-VOA5
Matrix: Water
Calibration Dates: 9/22/11 14:24 9/22/11 17:30

Compound	Level 07		Level 08		Level 09		Level 10		Level 11		Level 12	
	ug/L	RF	ug/L	RF	ug/L	RF	ug/L	RF	ug/L	RF	ug/L	RF
1,2-Dibromoethane (EDB)	150	0.5318444	200	0.5236721								
Dibromomethane	150	0.182332	200	0.1716194								
1,2-Dichlorobenzene	150	1.15349	200	1.132292								
1,3-Dichlorobenzene	150	1.234799	200	1.220412								
trans-1,4-Dichloro-2-butene	150	0.2404556	200	0.2445114								
cis-1,4-Dichloro-2-butene	150	0.229488	200	0.2370207								
1,4-Dichlorobenzene	150	1.181047	200	1.149826								
Dichlorodifluoromethane	150	0.2717185	200	0.2555995								
1,1-Dichloroethane	150	0.6243388	200	0.6027983								
1,2-Dichloroethane	150	0.366853	200	0.3490292								
1,1-Dichloroethene	150	0.2828897	200	0.2732589								
cis-1,2-Dichloroethene	150	0.3075019	200	0.2906369								
trans-1,2-Dichloroethene	150	0.2813448	200	0.2780051								
1,2-Dichloroethene (total)	300	0.2944233	400	0.284321								
1,2-Dichloropropane	150	0.3531426	200	0.3297516								
1,3-Dichloropropane	150	0.9506904	200	0.9162072								
2,2-Dichloropropane	150	0.3976266	200	0.3770422								
1,1-Dichloropropene	150	0.4276002	200	0.4066579								
cis-1,3-Dichloropropene	150	0.4519335	200	0.4256184								
trans-1,3-Dichloropropene	150	0.87931	200	0.8577463								
Diisopropyl Ether	150	1.306574	200	1.232327								
1,4-Dioxane	3000	2.201136E-03	4000	2.120106E-03								
Ethylbenzene	150	2.667912	200	2.486087								
Ethyl tert-Butyl Ether	150	0.9023305	200	0.8465185								
Ethyl Methacrylate	150	0.7978529	200	0.7837334								
Hexachlorobutadiene	150	0.4988539	200	0.5183666								
Hexane	149.5	0.4920029	199.3	0.5040077								
2-Hexanone	300	0.4831369	400	0.4861303								
Iodomethane	150	0.220041	200	0.2186747								
Isobutyl alcohol	3000	7.564468E-03	4000	7.958232E-03								
Isopropylbenzene	150	2.138388	200	2.016236								

INITIAL CALIBRATION DATA (Continued)

SW8260B

Laboratory: Empirical Laboratories, LLC
SDG: 1109191
Client: Tetra Tech NUS, Inc. (T010)
Project: Navy Fuel Depot CTO JM46
Calibration: 1266001
Instrument: MS-VOA5
Matrix: Water
Calibration Dates: 9/22/11 14:24 9/22/11 17:30

Compound	Level 07		Level 08		Level 09		Level 10		Level 11		Level 12	
	ug/L	RF	ug/L	RF	ug/L	RF	ug/L	RF	ug/L	RF	ug/L	RF
p-Isopropyltoluene	150	2.232923	200	2.15901								
Methacrylonitrile	1500	0.1468888	2000	0.1353776								
Methylene chloride	150	0.3298352	200	0.3174503								
Methyl Acetate	150	0.2210349	200	0.2201711								
Methylcyclohexane	150	0.4748371	200	0.4457521								
Naphthalene	150	0.909901	200	~~0.9822852~~								
Methyl Methacrylate	150	0.3587398	200	0.3366524								
4-Methyl-2-pentanone	300	0.278679	400	0.2742043								
Methyl t-Butyl Ether	150	0.6686392	200	0.6482783								
n-Propylbenzene	150	4.011069	200	3.845668								
Propionitrile	1500	3.030035E-02	2000	3.288878E-02								
Styrene	150	1.564378	200	1.476642								
1,1,2,2-Tetrachloroethane	150	0.8505192	200	0.8764155								
1,1,1,2-Tetrachloroethane	150	0.4774177	200	0.4618037								
tert-Butyl alcohol	750	2.588969E-02	1000	0.0268632								
Tetrachloroethene	150	0.5319925	200	0.5160474								
Toluene	150	1.413226	200	1.336431								
1,2,3-Trichlorobenzene	150	0.5640228	200	0.5697428								
1,2,4-Trichlorobenzene	150	0.6312066	200	0.6383516								
1,1,2-Trichloroethane	150	0.4785327	200	0.4632667								
1,1,1-Trichloroethane	150	0.3910753	200	0.3699319								
Tetrahydrofuran	150	8.531692E-02	200	8.434062E-02								
Trichloroethene	150	0.3129763	200	0.2980636								
Trichlorofluoromethane	150	0.4367081	200	0.4171795								
1,2,3-Trichloropropane	150	0.144179	200	0.1410262								
1,3,5-Trimethylbenzene	150	2.341858	200	2.310753								
1,2,4-Trimethylbenzene	150	2.230145	200	2.162977								
1,1,2-Trichloro-1,2,2-trifluoroethan	150	0.3054812	200	0.2927877								
Vinyl chloride	150	0.1929922	200	0.1790475								
m,p-Xylene	300	1.734601	400	1.587052								
o-Xylene	150	1.939328	200	1.823303								

INITIAL CALIBRATION DATA (Continued)

SW8260B

Laboratory:	Empirical Laboratories, LLC	SDG:	1109191
Client:	Tetra Tech NUS, Inc. (T010)	Project:	Navy Fuel Depot CTO JM46
Calibration:	1266001	Instrument:	MS-VOA5
Matrix:	Water	Calibration Dates:	9/22/11 14:24 9/22/11 17:30

Compound	Level 07		Level 08		Level 09		Level 10		Level 11		Level 12	
	ug/L	RF	ug/L	RF	ug/L	RF	ug/L	RF	ug/L	RF	ug/L	RF
Vinyl acetate	298.9	0.4986469	398.5	0.4712433								
Xylenes (total)	450	1.802844	600	1.665802								
Dibromofluoromethane	30	0.2709578	30	0.2621535								
1,2-Dichloroethane-d4	30	5.252695E-02	30	5.203152E-02								
Toluene-d8	30	2.161808	30	2.153597								
1,3,5-Trichlorobenzene	150	0.7525933	200	0.7424838								
Diethyl ether	150	0.2547375	200	0.2435783								

INITIAL CALIBRATION DATA (Continued)

SW8260B

Laboratory:	Empirical Laboratories, LLC	SDG:	1109191
Client:	Tetra Tech NUS, Inc. (T010)	Project:	Navy Fuel Depot CTO JM46
Calibration:	1266001	Instrument:	MS-VOA5
Matrix:	Water	Calibration Dates:	9/22/11 14:24 9/22/11 17:30

Compound	Mean RF	RF RSD	Mean RT	RT RSD	Linear r	Quad COD	LIMIT	Q
Acetone	9.262429E-02	11.90643	3.6785	4.856359E-02			15	
Acetonitrile	4.312747E-02	6.061775	3.757125	0.1387689			15	
Acrolein	3.605333E-02	13.8895	3.57	6.403258E-02			15	
Acrylonitrile	9.039394E-02	2.351678	4.513375	9.046768E-02			15	
Benzene	1.15471	4.40344	7.59525	6.388472E-02			15	
Allyl chloride	0.1559256	5.807646	4.593375	5.865917E-02			15	
Bromobenzene	0.7633159	3.156461	12.35538	2.042026E-02			15	
Bromochloromethane	0.1235531	3.744441	6.682875	3.424374E-02			15	
Tert-Amyl Methyl Ether	0.738742	3.338367	7.786	2.636406E-02			15	
Bromodichloromethane	0.379412	3.755271	8.585125	0.0450843			15	
Bromoform	0.2987352	11.20645	11.757	3.154518E-02			SPCC (0.1)	
Bromomethane	0.1192662	12.10129	2.761125	0.1032391			15	
Bromofluorobenzene	0.8319466	10.17697	12.1915	3.352992E-02			15	
n-Butylbenzene	2.21953	8.742535	13.78488	1.459332E-02			15	
2-Butanone	0.1629806	3.378259	6.131	3.249685E-02			15	
sec-Butylbenzene	3.138108	7.223366	13.24425	2.997162E-02			15	
tert-Butylbenzene	2.018681	7.408334	13.0105	0.0273861			15	
Carbon disulfide	1.066192	2.317999	4.69425	0.0806365			15	
Carbon tetrachloride	0.2854912	4.345216	7.564125	5.875428E-02			15	
Chlorobenzene	1.39022	3.27461	11.03175	4.093915E-02			SPCC (0.3)	
Chloroethane	0.1683821	3.504598	2.8915	7.305979E-02			15	
Chloroform	0.5243059	2.970635	6.65675	6.337178E-02			CCC (20)	
2-Chloroethyl vinyl ether	7.900848E-04	14.42955	9.0186	3.071997E-02			15	
Chloromethane	0.3106909	5.611084	2.186	0.197025			SPCC (0.1)	
1-Chlorohexane	0.8764472	3.44206	10.9995	3.549746E-02			15	
2-Chlorotoluene	2.498451	2.300804	12.5755	2.538883E-02			15	
Chloroprene	0.4927643	3.679655	5.954	3.260176E-02			15	
4-Chlorotoluene	2.650374	3.009551	12.637	3.639899E-02			15	
Cyclohexane	0.5807571	3.520722	7.49425	5.498976E-02			15	
Dibromochloromethane	0.5123229	7.324453	10.26188	3.765018E-02			15	
1,2-Dibromo-3-chloropropane	0.1116418	5.423155	14.38575	0.016599			15	
1,2-Dibromoethane (EDB)	0.4864624	7.728818	10.47625	3.816228E-02			15	

INITIAL CALIBRATION DATA (Continued)

SW8260B

Laboratory:	Empirical Laboratories, LLC	SDG:	1109191
Client:	Tetra Tech NUS, Inc. (T010)	Project:	Navy Fuel Depot CTO JM46
Calibration:	1266001	Instrument:	MS-VOA5
Matrix:	Water	Calibration Dates:	9/22/11 14:24 9/22/11 17:30

Compound	Mean RF	RF RSD	Mean RT	RT RSD	Linear r	Quad COD	LIMIT	Q
Dibromomethane	0.1787092	2.825964	8.52	5.208831E-02			15	
1,2-Dichlorobenzene	1.135175	2.330415	13.74412	1.790503E-02			15	
1,3-Dichlorobenzene	1.241071	1.789839	13.333	3.032041E-02			15	
trans-1,4-Dichloro-2-butene	0.2313921	3.959584	12.151	0.0337291			15	
cis-1,4-Dichloro-2-butene	0.2179345	6.234229	11.83788	3.493355E-02			15	
1,4-Dichlorobenzene	1.178719	3.055248	13.42387	3.216621E-02			15	
Dichlorodifluoromethane	0.2484155	9.294431	1.9755	0.1077106			15	
1,1-Dichloroethane	0.6169475	2.548656	5.688	4.293537E-02			SPCC (0.1)	
1,2-Dichloroethane	0.3648319	2.363883	7.421625	2.124116E-02			15	
1,1-Dichloroethene	0.2704343	4.793499	4.15725	9.827615E-02			CCC (20)	
cis-1,2-Dichloroethene	0.3039205	4.018694	6.402	7.814877E-02			15	
trans-1,2-Dichloroethene	0.2877251	2.213099	5.3125	5.443119E-02			15	
1,2-Dichloroethene (total)	0.2958228	2.693549	0	0			15	
1,2-Dichloropropane	0.3529503	3.421076	8.407875	4.430362E-02			CCC (20)	
1,3-Dichloropropane	0.8860595	6.588773	10.00338	4.049483E-02			15	
2,2-Dichloropropane	0.3912923	1.940874	6.509125	6.302224E-02			15	
1,1-Dichloropropene	0.4273526	2.654576	7.4435	0.0643481			15	
cis-1,3-Dichloropropene	0.4343172	4.421404	9.16	4.630375E-02			15	
trans-1,3-Dichloropropene	0.8584106	3.106252	9.63675	2.988977E-02			15	
Diisopropyl Ether	1.333375	4.434439	6.05825	6.534611E-02			15	
1,4-Dioxane	2.260098E-03	8.550648	8.564	1.730568E-02			15	
Ethylbenzene	2.605449	3.310795	11.18063	4.280774E-02			CCC (20)	
Ethyl tert-Butyl Ether	0.9190634	4.020285	6.5275	7.321103E-02			15	
Ethyl Methacrylate	0.7252136	7.500033	9.82625	4.375171E-02			15	
Hexachlorobutadiene	0.4487066	10.5692	15.7475	2.174577E-02			15	
Hexane	0.5268988	4.972468	5.90225	6.565295E-02			15	
2-Hexanone	0.456264	6.230949	9.936875	0.0381254			15	
Iodomethane	0.133135	56.48888	4.353125	9.593548E-02	0.9970219		0.995	
Isobutyl alcohol	7.386907E-03	6.747025	6.74325	5.696222E-02			15	
Isopropylbenzene	2.025749	6.241648	12.082	2.645294E-02			15	
p-Isopropyltoluene	2.050306	7.603231	13.38225	3.060136E-02			15	
Methacrylonitrile	0.1668209	10.78342	6.304875	0.1101118			15	

INITIAL CALIBRATION DATA (Continued)

SW8260B

Laboratory:	Empirical Laboratories, LLC	SDG:	1109191
Client:	Tetra Tech NUS, Inc. (T010)	Project:	Navy Fuel Depot CTO JM46
Calibration:	1266001	Instrument:	MS-VOA5
Matrix:	Water	Calibration Dates:	9/22/11 14:24 9/22/11 17:30

Compound	Mean RF	RF RSD	Mean RT	RT RSD	Linear r	Quad COD	LIMIT	Q
Methylene chloride	0.3490098	8.668745	4.641143	7.457064E-02			15	
Methyl Acetate	0.2282347	3.789468	4.49725	5.194467E-02			15	
Methylcyclohexane	0.4754706	3.787672	8.740375	2.615589E-02			15	
Naphthalene	1.023406	24.13032	15.61717	6.293815E-03	0.9962189		0.995	
Methyl Methacrylate	0.3682538	4.389723	7.49425	5.498976E-02			15	
4-Methyl-2-pentanone	0.2765082	2.476592	9.08475	3.297722E-02			15	
Methyl t-Butyl Ether	0.6625947	1.7724	5.30375	4.219036E-02			15	
n-Propylbenzene	4.010765	3.692624	12.492	3.030227E-02			15	
Propionitrile	3.258975E-02	4.68954	5.85175	7.485566E-02			15	
Styrene	1.429207	7.509738	11.65575	0.0203143			15	
1,1,2,2-Tetrachloroethane	0.8614587	5.48281	12.00437	3.245852E-02			SPCC (0.3)	
1,1,1,2-Tetrachloroethane	0.4471235	5.528561	11.07475	2.539237E-02			15	
tert-Butyl alcohol	2.453692E-02	7.503262	4.2915	8.823289E-02			15	
Tetrachloroethene	0.5116087	3.080681	10.37675	1.998181E-02			15	
Toluene	1.422592	3.423855	9.639125	3.912066E-02			CCC (20)	
1,2,3-Trichlorobenzene	0.524851	5.805789	15.90263	8.131435E-03			15	
1,2,4-Trichlorobenzene	0.5775726	6.817697	15.46288	2.562883E-02			15	
1,1,2-Trichloroethane	0.4543336	3.737003	9.791875	4.041322E-02			15	
1,1,1-Trichloroethane	0.3752332	3.854202	7.220875	6.450497E-02			15	
Tetrahydrofuran	8.676648E-02	5.855686	6.862857	5.768608E-02			15	
Trichloroethene	0.3153728	3.459258	8.35975	4.362699E-02			15	
Trichlorofluoromethane	0.411741	2.866948	3.38175	8.307126E-02			15	
1,2,3-Trichloropropane	0.1337925	6.400753	12.13	1.931119E-02			15	
1,3,5-Trimethylbenzene	2.284244	3.363203	12.6705	2.287039E-02			15	
1,2,4-Trimethylbenzene	2.114026	5.28424	13.03975	3.041942E-02			15	
1,1,2-Trichloro-1,2,2-trifluoroethane	0.2963671	2.137491	4.235	0.1022132			15	
Vinyl chloride	0.1668297	13.96866	2.32525	0.2038693			CCC (20)	
m,p-Xylene	1.802078	5.588899	11.29525	3.199225E-02			15	
o-Xylene	1.863912	4.786033	11.68675	1.214236E-02			15	
Vinyl acetate	0.4944567	3.222097	5.75825	6.339422E-02			15	
Xylenes (total)	1.822689	3.943502	0	0			15	
Dibromofluoromethane	0.2569209	3.59577	6.8305	2.537164E-02			15	

INITIAL CALIBRATION DATA (Continued)

SW8260B

Laboratory:	Empirical Laboratories, LLC	SDG:	1109191
Client:	Tetra Tech NUS, Inc. (T010)	Project:	Navy Fuel Depot CTO JM46
Calibration:	1266001	Instrument:	MS-VOA5
Matrix:	Water	Calibration Dates:	9/22/11 14:24 9/22/11 17:30

Compound	Mean RF	RF RSD	Mean RT	RT RSD	Linear r	Quad COD	LIMIT	Q
1,2-Dichloroethane-d4	5.278748E-02	1.536433	7.33175	4.044068E-02			15	
Toluene-d8	1.971331	6.949267	9.5615	3.922291E-02			15	
1,3,5-Trichlorobenzene	0.6831897	8.014695	14.909	0.0239794			15	
Diethyl ether	0.2440017	3.104075	3.79675	5.736106E-02			15	

INITIAL CALIBRATION CHECK

SW8260B

Laboratory:	Empirical Laboratories, LLC	SDG:	1109191
Client:	Tetra Tech NUS, Inc. (T010)	Project:	Navy Fuel Depot CTO JM46
Instrument ID:	MS-VOA6	Calibration:	1258002
Lab File ID:	0913ICV2.D	Calibration Date:	09/13/11 14:57
Sequence:	1I25809	Injection Date:	09/13/11
Lab Sample ID:	1I25809-ICV2	Injection Time:	19:51

		CONC. (ug/L)		RESPONSE FACTOR			% DIFF / DRIFT	
COMPOUND	TYPE	STD	ICV	ICAL	ICV	MIN (#)	ICV	LIMIT (#)
Acetone	A	200.0	238.7	0.1205578	0.1438586		19.3	20
Benzene	A	100.0	103.5	1.052433	1.089445		3.5	20
Bromochloromethane	A	100.0	103.8	0.140547	0.1459249		3.8	20
Bromodichloromethane	A	100.0	96.07	0.4135608	0.3973052		-3.9	20
Bromoform	A	100.0	119.5	0.336217	0.4017654	0.1	19.5	20
Bromomethane	A	100.0	107.4	0.1573336	0.1689642		7.4	20
2-Butanone	A	200.0	216.8	0.2170988	0.2352962		8.4	20
Carbon disulfide	A	100.0	86.50	0.6648011	0.5750799		-13.5	20
Carbon tetrachloride	A	100.0	103.0	0.3446436	0.3551161		3.0	20
Chlorobenzene	A	100.0	104.1	1.486087	1.547167	0.3	4.1	20
Chloroethane	A	100.0	100.6	0.1625273	0.163566		0.6	20
Chloroform	A	100.0	96.42	0.5218466	0.5031581		-3.6	20
Chloromethane	A	100.0	91.11	0.2978205	0.271356	0.1	-8.9	20
Cyclohexane	A	100.0	90.95	0.5064566	0.4606125		-9.1	20
Dibromochloromethane	A	100.0	105.9	0.6059921	0.641765		5.9	20
1,2-Dibromo-3-chloropropane	A	100.0	101.1	0.1433564	0.144953		1.1	20
1,2-Dibromoethane (EDB)	A	100.0	102.5	0.5875367	0.6020909		2.5	20
1,2-Dichlorobenzene	A	100.0	102.4	1.165982	1.194183		2.4	20
1,3-Dichlorobenzene	A	100.0	102.5	1.223082	1.254		2.5	20
1,4-Dichlorobenzene	A	100.0	102.7	1.242304	1.276374		2.7	20
Dichlorodifluoromethane	A	100.0	84.81	0.2500923	0.2121029		-15.2	20
1,1-Dichloroethane	A	100.0	102.6	0.5652557	0.5799733	0.1	2.6	20
1,2-Dichloroethane	A	100.0	95.45	0.5270445	0.5030399		-4.6	20
1,1-Dichloroethene	A	100.0	93.81	0.1954273	0.1833252		-6.2	20
cis-1,2-Dichloroethene	A	100.0	102.4	0.2829685	0.2898771		2.4	20
trans-1,2-Dichloroethene	A	100.0	100.6	0.2506448	0.2522233		0.6	20
1,2-Dichloropropane	A	100.0	101.4	0.3168871	0.3214647		1.4	20
cis-1,3-Dichloropropene	A	100.0	103.2	0.4720976	0.4873506		3.2	20
trans-1,3-Dichloropropene	A	100.0	91.94	1.068367	0.9822541		-8.1	20

INITIAL CALIBRATION CHECK

SW8260B

Laboratory:	Empirical Laboratories, LLC	SDG:	1109191
Client:	Tetra Tech NUS, Inc. (T010)	Project:	Navy Fuel Depot CTO JM46
Instrument ID:	MS-VOA6	Calibration:	1258002
Lab File ID:	0913ICV2.D	Calibration Date:	09/13/11 14:57
Sequence:	1I25809	Injection Date:	09/13/11
Lab Sample ID:	1I25809-ICV2	Injection Time:	19:51

		CONC. (ug/L)		RESPONSE FACTOR			% DIFF / DRIFT	
COMPOUND	TYPE	STD	ICV	ICAL	ICV	MIN (#)	ICV	LIMIT (#)
Ethylbenzene	A	100.0	104.6	2.570008	2.687852		4.6	20
2-Hexanone	A	200.0	204.6	0.6550182	0.6699451		2.3	20
Isopropylbenzene	A	100.0	98.82	2.139438	2.114114		-1.2	20
Methylene chloride	A	100.0	91.96	0.2438477	0.2242383		-8.0	20
Methyl Acetate	A	100.0	100.2	0.2617647	0.2623128		0.2	20
Methylcyclohexane	A	100.0	96.41	0.3380956	0.325952		-3.6	20
4-Methyl-2-pentanone	A	200.0	194.9	0.4211664	0.4103278		-2.6	20
Methyl t-Butyl Ether	A	100.0	99.49	0.8435707	0.8392316		-0.5	20
Styrene	A	100.0	105.0	1.639751	1.7217		5.0	20
1,1,2,2-Tetrachloroethane	A	100.0	101.3	0.8659383	0.8774305	0.3	1.3	20
1,1,1,2-Tetrachloroethane	A	100.0	104.9	0.5256579	0.5515382		4.9	20
Tetrachloroethene	A	100.0	104.0	0.4829744	0.5024189		4.0	20
Toluene	A	100.0	103.7	1.31046	1.358779		3.7	20
1,2,3-Trichlorobenzene	A	100.0	96.37	0.5614884	0.5410968		-3.6	20
1,2,4-Trichlorobenzene	A	100.0	97.83	0.6625627	0.648166		-2.2	20
1,1,2-Trichloroethane	A	100.0	103.7	0.457434	0.4745303		3.7	20
1,1,1-Trichloroethane	A	100.0	101.8	0.4166082	0.4242727		1.8	20
Trichloroethene	A	100.0	100.7	0.2737895	0.2756099		0.7	20
Trichlorofluoromethane	A	100.0	97.14	0.3989503	0.3875519		-2.9	20
1,1,2-Trichloro-1,2,2-trifluoroethane	A	100.0	91.49	0.2118545	0.193824		-8.5	20
Vinyl chloride	A	100.0	95.48	0.2569739	0.2453527		-4.5	20
m,p-Xylene	A	200.0	210.1	1.984228	2.084274		5.0	20
o-Xylene	A	100.0	102.3	2.094506	2.142908		2.3	20
Bromofluorobenzene	A	30.00	30.31	0.878475	0.8874272		1.0	20
Dibromofluoromethane	A	30.00	29.89	0.3115604	0.310461		-0.4	20
1,2-Dichloroethane-d4	A	30.00	30.23	6.496203E-02	6.545398E-02		0.8	20
Toluene-d8	A	30.00	30.47	1.972531	2.003656		1.6	20

Column to be used to flag Response Factor and %Diff/Drift values with an asterisk

* Values outside of QC limits

INITIAL CALIBRATION CHECK

SW8260B

Laboratory:	Empirical Laboratories, LLC	SDG:	1109191
Client:	Tetra Tech NUS, Inc. (T010)	Project:	Navy Fuel Depot CTO JM46
Instrument ID:	MS-VOA5	Calibration:	1266001
Lab File ID:	0922ICV2.D	Calibration Date:	09/22/11 14:24
Sequence:	1I26601	Injection Date:	09/22/11
Lab Sample ID:	1I26601-ICV2	Injection Time:	18:49

		CONC. (ug/L)		RESPONSE FACTOR			% DIFF / DRIFT	
COMPOUND	TYPE	STD	ICV	ICAL	ICV	MIN (#)	ICV	LIMIT (#)
Acetone	A	200.0	171.7	9.262429E-02	7.953653E-02		-14.1	20
Benzene	A	100.0	101.2	1.15471	1.16904		1.2	20
Bromochloromethane	A	100.0	100.0	0.1235531	0.1236091		0.05	20
Bromodichloromethane	A	100.0	99.31	0.379412	0.3768115		-0.7	20
Bromoform	A	100.0	113.5	0.2987352	0.3390708	0.1	13.5	20
Bromomethane	A	100.0	116.8	0.1192662	0.1393045		16.8	20
2-Butanone	A	200.0	209.9	0.1629806	0.1710292		4.9	20
Carbon disulfide	A	100.0	83.14	1.066192	0.8864712		-16.9	20
Carbon tetrachloride	A	100.0	103.6	0.2854912	0.2957594		3.6	20
Chlorobenzene	A	100.0	102.6	1.39022	1.426585	0.3	2.6	20
Chloroethane	A	100.0	108.3	0.1683821	0.1822979		8.3	20
Chloroform	A	100.0	99.65	0.5243059	0.5224809		-0.3	20
Chloromethane	A	100.0	104.1	0.3106909	0.3234885	0.1	4.1	20
Cyclohexane	A	100.0	91.38	0.5807571	0.5306956		-8.6	20
Dibromochloromethane	A	100.0	105.7	0.5123229	0.5415322		5.7	20
1,2-Dibromo-3-chloropropane	A	100.0	99.05	0.1116418	0.1105864		-0.9	20
1,2-Dibromoethane (EDB)	A	100.0	108.6	0.4864624	0.5283236		8.6	20
1,2-Dichlorobenzene	A	100.0	99.64	1.135175	1.13111		-0.4	20
1,3-Dichlorobenzene	A	100.0	97.86	1.241071	1.214509		-2.1	20
1,4-Dichlorobenzene	A	100.0	99.82	1.178719	1.176551		-0.2	20
Dichlorodifluoromethane	A	100.0	99.59	0.2484155	0.2473864		-0.4	20
1,1-Dichloroethane	A	100.0	100.7	0.6169475	0.6210126	0.1	0.7	20
1,2-Dichloroethane	A	100.0	98.47	0.3648319	0.3592603		-1.5	20
1,1-Dichloroethene	A	100.0	97.33	0.2704343	0.2632097		-2.7	20
cis-1,2-Dichloroethene	A	100.0	103.2	0.3039205	0.3137538		3.2	20
trans-1,2-Dichloroethene	A	100.0	99.24	0.2877251	0.2855323		-0.8	20
1,2-Dichloropropane	A	100.0	99.60	0.3529503	0.3515464		-0.4	20
cis-1,3-Dichloropropene	A	100.0	106.9	0.4343172	0.4641796		6.9	20
trans-1,3-Dichloropropene	A	100.0	97.13	0.8584106	0.8337863		-2.9	20

INITIAL CALIBRATION CHECK

SW8260B

Laboratory:	Empirical Laboratories, LLC	SDG:	1109191
Client:	Tetra Tech NUS, Inc. (T010)	Project:	Navy Fuel Depot CTO JM46
Instrument ID:	MS-VOA5	Calibration:	1266001
Lab File ID:	0922ICV2.D	Calibration Date:	09/22/11 14:24
Sequence:	1I26601	Injection Date:	09/22/11
Lab Sample ID:	1I26601-ICV2	Injection Time:	18:49

		CONC. (ug/L)		RESPONSE FACTOR			% DIFF / DRIFT	
COMPOUND	TYPE	STD	ICV	ICAL	ICV	MIN (#)	ICV	LIMIT (#)
1,4-Dioxane	A	2000	2180	2.260098E-03	2.463676E-03		9.0	20
Ethylbenzene	A	100.0	103.8	2.605449	2.703953		3.8	20
2-Hexanone	A	200.0	214.5	0.456264	0.4893285		7.2	20
Isopropylbenzene	A	100.0	100.9	2.025749	2.044747		0.9	20
Methylene chloride	A	100.0	93.19	0.3490098	0.3252298		-6.8	20
Methyl Acetate	A	100.0	103.0	0.2282347	0.2349746		3.0	20
Methylcyclohexane	A	100.0	97.86	0.4754706	0.4652849		-2.1	20
4-Methyl-2-pentanone	A	200.0	211.5	0.2765082	0.2923942		5.7	20
Methyl t-Butyl Ether	A	100.0	103.9	0.6625947	0.6881797		3.9	20
Styrene	A	100.0	106.1	1.429207	1.516987		6.1	20
1,1,2,2-Tetrachloroethane	A	100.0	107.3	0.8614587	0.9239789	0.3	7.3	20
1,1,1,2-Tetrachloroethane	A	100.0	105.2	0.4471235	0.4704562		5.2	20
Tetrachloroethene	A	100.0	104.4	0.5116087	0.5341521		4.4	20
Toluene	A	100.0	106.2	1.422592	1.510148		6.2	20
1,2,3-Trichlorobenzene	A	100.0	85.93	0.524851	0.4509789		-14.1	20
1,2,4-Trichlorobenzene	A	100.0	92.49	0.5775726	0.5342242		-7.5	20
1,1,2-Trichloroethane	A	100.0	107.9	0.4543336	0.4903284		7.9	20
1,1,1-Trichloroethane	A	100.0	105.4	0.3752332	0.3953329		5.4	20
Trichloroethene	A	100.0	97.81	0.3153728	0.3084676		-2.2	20
Trichlorofluoromethane	A	100.0	102.3	0.411741	0.4213471		2.3	20
1,1,2-Trichloro-1,2,2-trifluoroethane	A	100.0	90.85	0.2963671	0.2692437		-9.2	20
Vinyl chloride	A	100.0	108.8	0.1668297	0.1814298		8.8	20
m,p-Xylene	A	200.0	203.2	1.802078	1.831121		1.6	20
o-Xylene	A	100.0	105.2	1.863912	1.960037		5.2	20
Bromofluorobenzene	A	30.00	32.98	0.8319466	0.9146197		9.9	20
Dibromofluoromethane	A	30.00	32.55	0.2569209	0.2787404		8.5	20
1,2-Dichloroethane-d4	A	30.00	29.81	5.278748E-02	5.244459E-02		-0.6	20
Toluene-d8	A	30.00	32.11	1.971331	2.110278		7.0	20

Column to be used to flag Response Factor and %Diff/Drift values with an asterisk

* Values outside of QC limits

CONTINUING CALIBRATION CHECK

SW8260B

Laboratory:	Empirical Laboratories, LLC	SDG:	1109191
Client:	Tetra Tech NUS, Inc. (T010)	Project:	Navy Fuel Depot CTO JM46
Instrument ID:	MS-VOA5	Calibration:	1266001
Lab File ID:	0927CCV1.D	Calibration Date:	09/22/11 14:24
Sequence:	1I27024	Injection Date:	09/27/11
Lab Sample ID:	1I27024-CCV1	Injection Time:	07:11

		CONC. (ug/L)		RESPONSE FACTOR			% DIFF / DRIFT	
COMPOUND	TYPE	STD	CCV	ICAL	CCV	MIN (#)	CCV	LIMIT (#)
Acetone	A	200.0	193.6	9.262429E-02	8.966407E-02		-3.2	20
Benzene	A	100.0	100.3	1.15471	1.15851		0.3	20
Bromochloromethane	A	100.0	100.7	0.1235531	0.1243963		0.7	20
Bromodichloromethane	A	100.0	104.0	0.379412	0.3945142		4.0	20
Bromoform	A	100.0	114.2	0.2987352	0.3412463	0.1	14.2	20
Bromomethane	A	100.0	137.4	0.1192662	0.1638454		37.4	20 *
2-Butanone	A	200.0	199.7	0.1629806	0.1627442		-0.1	20
Carbon disulfide	A	100.0	105.6	1.066192	1.12632		5.6	20
Carbon tetrachloride	A	100.0	111.6	0.2854912	0.3186993		11.6	20
Chlorobenzene	A	100.0	106.4	1.39022	1.479069	0.3	6.4	20
Chloroethane	A	100.0	101.5	0.1683821	0.1708549		1.5	20
Chloroform	A	100.0	101.9	0.5243059	0.5342204		1.9	20
Chloromethane	A	100.0	103.9	0.3106909	0.3229171	0.1	3.9	20
Cyclohexane	A	100.0	102.5	0.5807571	0.5952587		2.5	20
Dibromochloromethane	A	100.0	109.4	0.5123229	0.5603551		9.4	20
1,2-Dibromo-3-chloropropane	A	100.0	105.1	0.1116418	0.1173344		5.1	20
1,2-Dibromoethane (EDB)	A	100.0	108.2	0.4864624	0.526456		8.2	20
1,2-Dichlorobenzene	A	100.0	102.3	1.135175	1.160872		2.3	20
1,3-Dichlorobenzene	A	100.0	102.3	1.241071	1.269965		2.3	20
1,4-Dichlorobenzene	A	100.0	102.4	1.178719	1.206551		2.4	20
Dichlorodifluoromethane	A	100.0	113.0	0.2484155	0.2805952		13.0	20
1,1-Dichloroethane	A	100.0	102.2	0.6169475	0.6307291	0.1	2.2	20
1,2-Dichloroethane	A	100.0	99.30	0.3648319	0.3622627		-0.7	20
1,1-Dichloroethene	A	100.0	106.2	0.2704343	0.2871905		6.2	20
cis-1,2-Dichloroethene	A	100.0	105.4	0.3039205	0.3203428		5.4	20
trans-1,2-Dichloroethene	A	100.0	100.9	0.2877251	0.2902723		0.9	20
1,2-Dichloropropane	A	100.0	98.99	0.3529503	0.3493801		-1.0	20
cis-1,3-Dichloropropene	A	100.0	102.8	0.4343172	0.4464374		2.8	20
trans-1,3-Dichloropropene	A	100.0	104.9	0.8584106	0.9006497		4.9	20

CONTINUING CALIBRATION CHECK

SW8260B

Laboratory:	Empirical Laboratories, LLC	SDG:	1109191
Client:	Tetra Tech NUS, Inc. (T010)	Project:	Navy Fuel Depot CTO JM46
Instrument ID:	MS-VOA5	Calibration:	1266001
Lab File ID:	0927CCV1.D	Calibration Date:	09/22/11 14:24
Sequence:	1I27024	Injection Date:	09/27/11
Lab Sample ID:	1I27024-CCV1	Injection Time:	07:11

		CONC. (ug/L)		RESPONSE FACTOR			% DIFF / DRIFT	
COMPOUND	TYPE	STD	CCV	ICAL	CCV	MIN (#)	CCV	LIMIT (#)
1,4-Dioxane	A	2000	1889	2.260098E-03	2.135243E-03		-5.5	20
Ethylbenzene	A	100.0	106.7	2.605449	2.780815		6.7	20
2-Hexanone	A	200.0	203.1	0.456264	0.4633911		1.6	20
Isopropylbenzene	A	100.0	112.5	2.025749	2.278304		12.5	20
Methylene chloride	A	100.0	94.04	0.3490098	0.3282035		-6.0	20
Methyl Acetate	A	100.0	96.77	0.2282347	0.2208574		-3.2	20
Methylcyclohexane	A	100.0	105.2	0.4754706	0.5001411		5.2	20
4-Methyl-2-pentanone	A	200.0	194.1	0.2765082	0.2683189		-3.0	20
Methyl t-Butyl Ether	A	100.0	68.88	0.6625947	0.4563851		-31.1	20 *
Styrene	A	100.0	110.3	1.429207	1.576855		10.3	20
1,1,2,2-Tetrachloroethane	A	100.0	108.8	0.8614587	0.9373319	0.3	8.8	20
1,1,1,2-Tetrachloroethane	A	100.0	109.6	0.4471235	0.4900522		9.6	20
Tetrachloroethene	A	100.0	111.8	0.5116087	0.5721896		11.8	20
Toluene	A	100.0	105.7	1.422592	1.503544		5.7	20
1,2,3-Trichlorobenzene	A	100.0	92.97	0.524851	0.4879754		-7.0	20
1,2,4-Trichlorobenzene	A	100.0	97.74	0.5775726	0.5645275		-2.3	20
1,1,2-Trichloroethane	A	100.0	107.7	0.4543336	0.4894566		7.7	20
1,1,1-Trichloroethane	A	100.0	107.5	0.3752332	0.4034969		7.5	20
Trichloroethene	A	100.0	99.04	0.3153728	0.3123591		-1.0	20
Trichlorofluoromethane	A	100.0	109.9	0.411741	0.4524715		9.9	20
1,1,2-Trichloro-1,2,2-trifluoroethane	A	100.0	105.5	0.2963671	0.312562		5.5	20
Vinyl chloride	A	100.0	118.9	0.1668297	0.1984314		18.9	20
m,p-Xylene	A	200.0	208.8	1.802078	1.881262		4.4	20
o-Xylene	A	100.0	109.7	1.863912	2.044896		9.7	20
Bromofluorobenzene	A	30.00	34.33	0.8319466	0.9519699		14.4	20
Dibromofluoromethane	A	30.00	32.52	0.2569209	0.2785419		8.4	20
1,2-Dichloroethane-d4	A	30.00	29.62	5.278748E-02	0.0521181		-1.3	20
Toluene-d8	A	30.00	32.62	1.971331	2.143668		8.7	20

Column to be used to flag Response Factor and %Diff/Drift values with an asterisk

* Values outside of QC limits

CONTINUING CALIBRATION CHECK

SW8260B

Laboratory:	Empirical Laboratories, LLC	SDG:	1109191
Client:	Tetra Tech NUS, Inc. (T010)	Project:	Navy Fuel Depot CTO JM46
Instrument ID:	MS-VOA5	Calibration:	1266001
Lab File ID:	0928CCV1.D	Calibration Date:	09/22/11 14:24
Sequence:	1I27201	Injection Date:	09/28/11
Lab Sample ID:	1I27201-CCV1	Injection Time:	10:10

		CONC. (ug/L)		RESPONSE FACTOR			% DIFF / DRIFT	
COMPOUND	TYPE	STD	CCV	ICAL	CCV	MIN (#)	CCV	LIMIT (#)
Acetone	A	200.0	275.8	9.262429E-02	0.1277071		37.9	20 *
Benzene	A	100.0	95.88	1.15471	1.107188		-4.1	20
Bromochloromethane	A	100.0	105.6	0.1235531	0.1304403		5.6	20
Bromodichloromethane	A	100.0	103.3	0.379412	0.3919616		3.3	20
Bromoform	A	100.0	124.3	0.2987352	0.3713661	0.1	24.3	20 *
Bromomethane	A	100.0	172.2	0.1192662	0.205388		72.2	20 *
2-Butanone	A	200.0	228.3	0.1629806	0.1860567		14.2	20
Carbon disulfide	A	100.0	94.88	1.066192	1.011577		-5.1	20
Carbon tetrachloride	A	100.0	98.82	0.2854912	0.2821112		-1.2	20
Chlorobenzene	A	100.0	105.2	1.39022	1.46278	0.3	5.2	20
Chloroethane	A	100.0	96.77	0.1683821	0.1629398		-3.2	20
Chloroform	A	100.0	97.22	0.5243059	0.5097324		-2.8	20
Chloromethane	A	100.0	106.0	0.3106909	0.3294898	0.1	6.1	20
Cyclohexane	A	100.0	88.01	0.5807571	0.5111059		-12.0	20
Dibromochloromethane	A	100.0	111.2	0.5123229	0.5695739		11.2	20
1,2-Dibromo-3-chloropropane	A	100.0	112.2	0.1116418	0.1252242		12.2	20
1,2-Dibromoethane (EDB)	A	100.0	115.4	0.4864624	0.5613753		15.4	20
1,2-Dichlorobenzene	A	100.0	101.8	1.135175	1.155634		1.8	20
1,3-Dichlorobenzene	A	100.0	98.16	1.241071	1.218239		-1.8	20
1,4-Dichlorobenzene	A	100.0	101.6	1.178719	1.197239		1.6	20
Dichlorodifluoromethane	A	100.0	117.9	0.2484155	0.2929487		17.9	20
1,1-Dichloroethane	A	100.0	91.88	0.6169475	0.5668844	0.1	-8.1	20
1,2-Dichloroethane	A	100.0	99.64	0.3648319	0.3635368		-0.4	20
1,1-Dichloroethene	A	100.0	101.0	0.2704343	0.2732852		1.1	20
cis-1,2-Dichloroethene	A	100.0	99.28	0.3039205	0.3017252		-0.7	20
trans-1,2-Dichloroethene	A	100.0	97.51	0.2877251	0.2805561		-2.5	20
1,2-Dichloropropane	A	100.0	94.67	0.3529503	0.3341539		-5.3	20
cis-1,3-Dichloropropene	A	100.0	104.2	0.4343172	0.4526682		4.2	20
trans-1,3-Dichloropropene	A	100.0	108.7	0.8584106	0.9332955		8.7	20

CONTINUING CALIBRATION CHECK

SW8260B

Laboratory:	Empirical Laboratories, LLC	SDG:	1109191
Client:	Tetra Tech NUS, Inc. (T010)	Project:	Navy Fuel Depot CTO JM46
Instrument ID:	MS-VOA5	Calibration:	1266001
Lab File ID:	0928CCV1.D	Calibration Date:	09/22/11 14:24
Sequence:	1I27201	Injection Date:	09/28/11
Lab Sample ID:	1I27201-CCV1	Injection Time:	10:10

		CONC. (ug/L)		RESPONSE FACTOR			% DIFF / DRIFT	
COMPOUND	TYPE	STD	CCV	ICAL	CCV	MIN (#)	CCV	LIMIT (#)
1,4-Dioxane	A	2000	2175	2.260098E-03	2.45766E-03		8.7	20
Ethylbenzene	A	100.0	102.6	2.605449	2.673582		2.6	20
2-Hexanone	A	200.0	228.8	0.456264	0.5220646		14.4	20
Isopropylbenzene	A	100.0	107.8	2.025749	2.183222		7.8	20
Methylene chloride	A	100.0	97.39	0.3490098	0.3399012		-2.6	20
Methyl Acetate	A	100.0	93.71	0.2282347	0.2138734		-6.3	20
Methylcyclohexane	A	100.0	95.12	0.4754706	0.4522679		-4.9	20
4-Methyl-2-pentanone	A	200.0	209.4	0.2765082	0.2894916		4.7	20
Methyl t-Butyl Ether	A	100.0	76.41	0.6625947	0.5063141		-23.6	20 *
Styrene	A	100.0	113.3	1.429207	1.619791		13.3	20
1,1,2,2-Tetrachloroethane	A	100.0	105.4	0.8614587	0.9076373	0.3	5.4	20
1,1,1,2-Tetrachloroethane	A	100.0	107.6	0.4471235	0.4810486		7.6	20
Tetrachloroethene	A	100.0	106.2	0.5116087	0.5431997		6.2	20
Toluene	A	100.0	100.5	1.422592	1.430406		0.5	20
1,2,3-Trichlorobenzene	A	100.0	111.1	0.524851	0.5831095		11.1	20
1,2,4-Trichlorobenzene	A	100.0	113.5	0.5775726	0.6557673		13.5	20
1,1,2-Trichloroethane	A	100.0	110.8	0.4543336	0.5035133		10.8	20
1,1,1-Trichloroethane	A	100.0	96.50	0.3752332	0.3621179		-3.5	20
Trichloroethene	A	100.0	95.62	0.3153728	0.3015636		-4.4	20
Trichlorofluoromethane	A	100.0	96.19	0.411741	0.3960425		-3.8	20
1,1,2-Trichloro-1,2,2-trifluoroethane	A	100.0	94.12	0.2963671	0.2789502		-5.9	20
Vinyl chloride	A	100.0	129.6	0.1668297	0.2161805		29.6	20 *
m,p-Xylene	A	200.0	208.0	1.802078	1.874566		4.0	20
o-Xylene	A	100.0	107.2	1.863912	1.997562		7.2	20
Bromofluorobenzene	A	30.00	35.86	0.8319466	0.9943194		19.5	20
Dibromofluoromethane	A	30.00	32.57	0.2569209	0.2789606		8.6	20
1,2-Dichloroethane-d4	A	30.00	31.97	5.278748E-02	5.625306E-02		6.6	20
Toluene-d8	A	30.00	31.74	1.971331	2.08601		5.8	20

Column to be used to flag Response Factor and %Diff/Drift values with an asterisk

* Values outside of QC limits

CONTINUING CALIBRATION CHECK

SW8260B

Laboratory:	Empirical Laboratories, LLC	SDG:	1109191
Client:	Tetra Tech NUS, Inc. (T010)	Project:	Navy Fuel Depot CTO JM46
Instrument ID:	MS-VOA6	Calibration:	1258002
Lab File ID:	928CCV1E.D	Calibration Date:	09/13/11 14:57
Sequence:	1I27207	Injection Date:	09/28/11
Lab Sample ID:	1I27207-CCV1	Injection Time:	20:51

		CONC. (ug/L)		RESPONSE FACTOR			% DIFF / DRIFT		
COMPOUND	TYPE	STD	CCV	ICAL	CCV	MIN (#)	CCV	LIMIT (#)	
Acetone	A	200.0	211.0	0.1205578	0.1272205		5.5	20	
Benzene	A	100.0	85.40	1.052433	0.8987727		-14.6	20	
Bromochloromethane	A	100.0	94.08	0.140547	0.1322301		-5.9	20	
Bromodichloromethane	A	100.0	97.09	0.4135608	0.4015121		-2.9	20	
Bromoform	A	100.0	120.6	0.336217	0.405499	0.1	20.6	20	*
Bromomethane	A	100.0	81.70	0.1573336	0.1285359		-18.3	20	
2-Butanone	A	200.0	171.2	0.2170988	0.185784		-14.4	20	
Carbon disulfide	A	100.0	85.80	0.6648011	0.5704069		-14.2	20	
Carbon tetrachloride	A	100.0	105.4	0.3446436	0.3632087		5.4	20	
Chlorobenzene	A	100.0	101.0	1.486087	1.500403	0.3	1.0	20	
Chloroethane	A	100.0	83.24	0.1625273	0.1352829		-16.8	20	
Chloroform	A	100.0	91.95	0.5218466	0.4798366		-8.1	20	
Chloromethane	A	100.0	81.02	0.2978205	0.2413103	0.1	-19.0	20	
Cyclohexane	A	100.0	79.46	0.5064566	0.4024145		-20.5	20	*
Dibromochloromethane	A	100.0	107.9	0.6059921	0.6537479		7.9	20	
1,2-Dibromo-3-chloropropane	A	100.0	113.7	0.1433564	0.1629774		13.7	20	
1,2-Dibromoethane (EDB)	A	100.0	100.0	0.5875367	0.5876323		0.02	20	
1,2-Dichlorobenzene	A	100.0	109.4	1.165982	1.275824		9.4	20	
1,3-Dichlorobenzene	A	100.0	109.0	1.223082	1.333662		9.0	20	
1,4-Dichlorobenzene	A	100.0	109.0	1.242304	1.354055		9.0	20	
Dichlorodifluoromethane	A	100.0	106.7	0.2500923	0.2668631		6.7	20	
1,1-Dichloroethane	A	100.0	85.04	0.5652557	0.4807065	0.1	-15.0	20	
1,2-Dichloroethane	A	100.0	99.77	0.5270445	0.5258467		-0.2	20	
1,1-Dichloroethene	A	100.0	89.67	0.1954273	0.1752362		-10.3	20	
cis-1,2-Dichloroethene	A	100.0	88.66	0.2829685	0.2508926		-11.3	20	
trans-1,2-Dichloroethene	A	100.0	82.45	0.2506448	0.2066615		-17.5	20	
1,2-Dichloropropane	A	100.0	84.05	0.3168871	0.2663382		-16.0	20	
cis-1,3-Dichloropropene	A	100.0	90.12	0.4720976	0.42546		-9.9	20	
trans-1,3-Dichloropropene	A	100.0	95.36	1.068367	1.018788		-4.6	20	

CONTINUING CALIBRATION CHECK

SW8260B

Laboratory:	Empirical Laboratories, LLC	SDG:	1109191
Client:	Tetra Tech NUS, Inc. (T010)	Project:	Navy Fuel Depot CTO JM46
Instrument ID:	MS-VOA6	Calibration:	1258002
Lab File ID:	928CCV1E.D	Calibration Date:	09/13/11 14:57
Sequence:	1I27207	Injection Date:	09/28/11
Lab Sample ID:	1I27207-CCV1	Injection Time:	20:51

		CONC. (ug/L)		RESPONSE FACTOR			% DIFF / DRIFT	
COMPOUND	TYPE	STD	CCV	ICAL	CCV	MIN (#)	CCV	LIMIT (#)
Ethylbenzene	A	100.0	99.60	2.570008	2.559674		-0.4	20
2-Hexanone	A	200.0	179.9	0.6550182	0.5890585		-10.1	20
Isopropylbenzene	A	100.0	106.6	2.139438	2.281888		6.7	20
Methylene chloride	A	100.0	79.53	0.2438477	0.1939382		-20.5	20 *
Methyl Acetate	A	100.0	71.86	0.2617647	0.1880935		-28.1	20 *
Methylcyclohexane	A	100.0	91.30	0.3380956	0.3086865		-8.7	20
4-Methyl-2-pentanone	A	200.0	168.8	0.4211664	0.3555		-15.6	20
Methyl t-Butyl Ether	A	100.0	82.53	0.8435707	0.6961744		-17.5	20
Styrene	A	100.0	103.2	1.639751	1.692325		3.2	20
1,1,2,2-Tetrachloroethane	A	100.0	95.68	0.8659383	0.8285642	0.3	-4.3	20
1,1,1,2-Tetrachloroethane	A	100.0	103.7	0.5256579	0.5451015		3.7	20
Tetrachloroethene	A	100.0	103.0	0.4829744	0.4973757		3.0	20
Toluene	A	100.0	92.66	1.31046	1.214345		-7.3	20
1,2,3-Trichlorobenzene	A	100.0	137.7	0.5614884	0.7731315		37.7	20 *
1,2,4-Trichlorobenzene	A	100.0	123.9	0.6625627	0.8206784		23.9	20 *
1,1,2-Trichloroethane	A	100.0	90.94	0.457434	0.4159688		-9.1	20
1,1,1-Trichloroethane	A	100.0	102.4	0.4166082	0.426437		2.4	20
Trichloroethene	A	100.0	94.21	0.2737895	0.2579287		-5.8	20
Trichlorofluoromethane	A	100.0	99.14	0.3989503	0.3954997		-0.9	20
1,1,2-Trichloro-1,2,2-trifluoroethane	A	100.0	89.18	0.2118545	0.1889216		-10.8	20
Vinyl chloride	A	100.0	96.80	0.2569739	0.2487529		-3.2	20
m,p-Xylene	A	200.0	209.8	1.984228	2.081745		4.9	20
o-Xylene	A	100.0	101.0	2.094506	2.115315		1.0	20
Bromofluorobenzene	A	30.00	31.47	0.878475	0.9216437		4.9	20
Dibromofluoromethane	A	30.00	30.28	0.3115604	0.3144209		0.9	20
1,2-Dichloroethane-d4	A	30.00	29.74	6.496203E-02	0.0644094		-0.9	20
Toluene-d8	A	30.00	32.75	1.972531	2.153465		9.2	20

Column to be used to flag Response Factor and %Diff/Drift values with an asterisk

* Values outside of QC limits

ANALYSIS DATA SHEET

Blank

Laboratory: Empirical Laboratories, LLC SDG: 1109191

Client: Tetra Tech NUS, Inc. (T010) Project: Navy Fuel Depot CTO JM46

Matrix: Laboratory ID: 1I27005-BLK1 File ID: 0927BL1.D

Sampled: Prepared: Analyzed: 09/27/11 08:42

Solids: Preparation: 5035 Dilution:

Batch: 1I27005 Sequence: 1I27024 Calibration: 1266001 Instrument: MS-VOA5

CAS NO.	COMPOUND	ONC. (ug/Kg we	DL	LOD	LOQ	Q
67-64-1	Acetone		12.5	25.0	50.0	U
71-43-2	Benzene		1.25	2.50	5.00	U
74-97-5	Bromochloromethane		1.25	2.50	5.00	U
75-27-4	Bromodichloromethane		1.25	2.50	5.00	U
75-25-2	Bromoform		1.25	2.50	5.00	U
74-83-9	Bromomethane		2.50	5.00	10.0	X, U
78-93-3	2-Butanone		2.50	5.00	10.0	U
75-15-0	Carbon disulfide		1.25	2.50	5.00	U
56-23-5	Carbon tetrachloride		1.25	2.50	5.00	U
108-90-7	Chlorobenzene		1.25	2.50	5.00	U
75-00-3	Chloroethane		2.50	5.00	10.0	U
67-66-3	Chloroform		1.25	2.50	5.00	U
74-87-3	Chloromethane		2.50	5.00	10.0	U
110-82-7	Cyclohexane		1.25	2.50	5.00	U
124-48-1	Dibromochloromethane		1.25	2.50	5.00	U
96-12-8	1,2-Dibromo-3-chloropropane		2.50	5.00	10.0	U
106-93-4	1,2-Dibromoethane (EDB)		1.25	2.50	5.00	U
95-50-1	1,2-Dichlorobenzene		1.25	2.50	5.00	U
541-73-1	1,3-Dichlorobenzene		1.25	2.50	5.00	U
106-46-7	1,4-Dichlorobenzene		1.25	2.50	5.00	U
75-71-8	Dichlorodifluoromethane		2.50	5.00	10.0	U
75-34-3	1,1-Dichloroethane		1.25	2.50	5.00	U
107-06-2	1,2-Dichloroethane		1.25	2.50	5.00	U
75-35-4	1,1-Dichloroethene		1.25	2.50	5.00	U
156-59-2	cis-1,2-Dichloroethene		1.25	2.50	5.00	U
156-60-5	trans-1,2-Dichloroethene		1.25	2.50	5.00	U
78-87-5	1,2-Dichloropropane		1.25	2.50	5.00	U
10061-01-5	cis-1,3-Dichloropropene		1.25	2.50	5.00	U
10061-02-6	trans-1,3-Dichloropropene		1.25	2.50	5.00	U
123-91-1	1,4-Dioxane		50.0	100	200	U
100-41-4	Ethylbenzene		1.25	2.50	5.00	U
591-78-6	2-Hexanone	2.92	2.50	5.00	10.0	I
98-82-8	Isopropylbenzene		1.25	2.50	5.00	U
75-09-2	Methylene chloride		1.25	2.50	5.00	U
79-20-9	Methyl Acetate		2.50	5.00	10.0	U
108-87-2	Methylcyclohexane		1.25	2.50	5.00	U
108-10-1	4-Methyl-2-pentanone		2.50	5.00	10.0	U
1634-04-4	Methyl t-Butyl Ether		1.25	2.50	5.00	Y, U
100-42-5	Styrene		1.25	2.50	5.00	U
79-34-5	1,1,2,2-Tetrachloroethane		1.25	2.50	5.00	U

ANALYSIS DATA SHEET

Blank

Laboratory: Empirical Laboratories, LLC SDG: 1109191

Client: Tetra Tech NUS, Inc. (T010) Project: Navy Fuel Depot CTO JM46

Matrix: Laboratory ID: 1I27005-BLK1 File ID: 0927BL1.D

Sampled: Prepared: Analyzed: 09/27/11 08:42

Solids: Preparation: 5035 Dilution:

Batch: 1I27005 Sequence: 1I27024 Calibration: 1266001 Instrument: MS-VOA5

CAS NO.	COMPOUND	ONC. (ug/Kg we	DL	LOD	LOQ	Q
630-20-6	1,1,1,2-Tetrachloroethane		1.25	2.50	5.00	U
127-18-4	Tetrachloroethene		1.25	2.50	5.00	U
108-88-3	Toluene		1.25	2.50	5.00	U
87-61-6	1,2,3-Trichlorobenzene		1.25	2.50	5.00	U
120-82-1	1,2,4-Trichlorobenzene		1.25	2.50	5.00	U
79-00-5	1,1,2-Trichloroethane		1.25	2.50	5.00	U
71-55-6	1,1,1-Trichloroethane		1.25	2.50	5.00	U
79-01-6	Trichloroethene		1.25	2.50	5.00	U
75-69-4	Trichlorofluoromethane		2.50	5.00	10.0	U
76-13-1	1,1,2-Trichloro-1,2,2-trifluoroethane		2.50	5.00	10.0	U
75-01-4	Vinyl chloride		2.50	5.00	10.0	U
108-38-3/106-42-	m,p-Xylene		2.50	5.00	10.0	U
95-47-6	o-Xylene		1.25	2.50	5.00	U

SYSTEM MONITORING COMPOUND	ADDED (ug/Kg wet)	CONC (ug/Kg wet)	% REC	QC LIMITS	Q
Bromofluorobenzene	30.00	31.22	104	85 - 120	
Dibromofluoromethane	30.00	32.33	108	80 - 125	
1,2-Dichloroethane-d4	30.00	31.53	105	75 - 140	
Toluene-d8	30.00	29.95	99.8	85 - 115	

ANALYSIS DATA SHEET

LCS

Laboratory: Empirical Laboratories, LLC SDG: 1109191

Client: Tetra Tech NUS, Inc. (T010) Project: Navy Fuel Depot CTO JM46

Matrix: Laboratory ID: 1I27005-BS1 File ID: 0927LCS1.D

Sampled: Prepared: Analyzed: 09/27/11 07:49

Solids: Preparation: 5035 Dilution:

Batch: 1I27005 Sequence: 1I27024 Calibration: 1266001 Instrument: MS-VOA5

CAS NO.	COMPOUND	ONC. (ug/Kg we	DL	LOD	LOQ	Q
67-64-1	Acetone	77.92	12.5	25.0	50.0	
71-43-2	Benzene	48.47	1.25	2.50	5.00	
74-97-5	Bromochloromethane	47.52	1.25	2.50	5.00	
75-27-4	Bromodichloromethane	46.54	1.25	2.50	5.00	
75-25-2	Bromoform	52.20	1.25	2.50	5.00	
74-83-9	Bromomethane	64.68	2.50	5.00	10.0	X
78-93-3	2-Butanone	88.78	2.50	5.00	10.0	
75-15-0	Carbon disulfide	40.45	1.25	2.50	5.00	
56-23-5	Carbon tetrachloride	52.00	1.25	2.50	5.00	
108-90-7	Chlorobenzene	49.52	1.25	2.50	5.00	
75-00-3	Chloroethane	47.67	2.50	5.00	10.0	
67-66-3	Chloroform	48.23	1.25	2.50	5.00	
74-87-3	Chloromethane	46.66	2.50	5.00	10.0	
110-82-7	Cyclohexane	43.83	1.25	2.50	5.00	
124-48-1	Dibromochloromethane	47.99	1.25	2.50	5.00	
96-12-8	1,2-Dibromo-3-chloropropane	47.24	2.50	5.00	10.0	
106-93-4	1,2-Dibromoethane (EDB)	49.94	1.25	2.50	5.00	
95-50-1	1,2-Dichlorobenzene	49.04	1.25	2.50	5.00	
541-73-1	1,3-Dichlorobenzene	49.35	1.25	2.50	5.00	
106-46-7	1,4-Dichlorobenzene	49.76	1.25	2.50	5.00	
75-71-8	Dichlorodifluoromethane	48.36	2.50	5.00	10.0	
75-34-3	1,1-Dichloroethane	47.38	1.25	2.50	5.00	
107-06-2	1,2-Dichloroethane	46.17	1.25	2.50	5.00	
75-35-4	1,1-Dichloroethene	46.95	1.25	2.50	5.00	
156-59-2	cis-1,2-Dichloroethene	49.63	1.25	2.50	5.00	
156-60-5	trans-1,2-Dichloroethene	49.19	1.25	2.50	5.00	
78-87-5	1,2-Dichloropropane	46.64	1.25	2.50	5.00	
10061-01-5	cis-1,3-Dichloropropene	50.09	1.25	2.50	5.00	
10061-02-6	trans-1,3-Dichloropropene	44.33	1.25	2.50	5.00	
123-91-1	1,4-Dioxane	946.8	50.0	100	200	
100-41-4	Ethylbenzene	51.11	1.25	2.50	5.00	
591-78-6	2-Hexanone	108.2	2.50	5.00	10.0	
98-82-8	Isopropylbenzene	50.99	1.25	2.50	5.00	
75-09-2	Methylene chloride	45.47	1.25	2.50	5.00	
79-20-9	Methyl Acetate	45.60	2.50	5.00	10.0	
108-87-2	Methylcyclohexane	47.33	1.25	2.50	5.00	
108-10-1	4-Methyl-2-pentanone	102.2	2.50	5.00	10.0	
1634-04-4	Methyl t-Butyl Ether	32.07	1.25	2.50	5.00	Y
100-42-5	Styrene	51.25	1.25	2.50	5.00	
79-34-5	1,1,2,2-Tetrachloroethane	48.93	1.25	2.50	5.00	

ANALYSIS DATA SHEET

LCS

Laboratory: Empirical Laboratories, LLC SDG: 1109191

Client: Tetra Tech NUS, Inc. (T010) Project: Navy Fuel Depot CTO JM46

Matrix: Laboratory ID: 1I27005-BS1 File ID: 0927LCS1.D

Sampled: Prepared: Analyzed: 09/27/11 07:49

Solids: Preparation: 5035 Dilution:

Batch: 1I27005 Sequence: 1I27024 Calibration: 1266001 Instrument: MS-VOA5

CAS NO.	COMPOUND	ONC. (ug/Kg we	DL	LOD	LOQ	Q
630-20-6	1,1,1,2-Tetrachloroethane	50.95	1.25	2.50	5.00	
127-18-4	Tetrachloroethene	51.55	1.25	2.50	5.00	
108-88-3	Toluene	50.62	1.25	2.50	5.00	
87-61-6	1,2,3-Trichlorobenzene	44.75	1.25	2.50	5.00	
120-82-1	1,2,4-Trichlorobenzene	48.04	1.25	2.50	5.00	
79-00-5	1,1,2-Trichloroethane	49.15	1.25	2.50	5.00	
71-55-6	1,1,1-Trichloroethane	50.89	1.25	2.50	5.00	
79-01-6	Trichloroethene	46.76	1.25	2.50	5.00	
75-69-4	Trichlorofluoromethane	51.10	2.50	5.00	10.0	
76-13-1	1,1,2-Trichloro-1,2,2-trifluoroethane	44.30	2.50	5.00	10.0	
75-01-4	Vinyl chloride	55.85	2.50	5.00	10.0	
108-38-3/106-42-	m,p-Xylene	104.1	2.50	5.00	10.0	
95-47-6	o-Xylene	51.86	1.25	2.50	5.00	

SYSTEM MONITORING COMPOUND	ADDED (ug/Kg wet)	CONC (ug/Kg wet)	% REC	QC LIMITS	Q
Bromofluorobenzene	30.00	32.35	108	85 - 120	
Dibromofluoromethane	30.00	31.59	105	80 - 125	
1,2-Dichloroethane-d4	30.00	28.54	95.1	75 - 140	
Toluene-d8	30.00	31.17	104	85 - 115	

ANALYSIS DATA SHEET

Matrix Spike

Laboratory: Empirical Laboratories, LLC SDG: 1109191

Client: Tetra Tech NUS, Inc. (T010) Project: Navy Fuel Depot CTO JM46

Matrix: Laboratory ID: 1I27005-MS1 File ID: 0919102M.D

Sampled: Prepared: Analyzed: 09/27/11 17:58

Solids: Preparation: 5035 Dilution:

Batch: 1I27005 Sequence: 1I27024 Calibration: 1266001 Instrument: MS-VOA5

CAS NO.	COMPOUND	ONC. (ug/Kg dry	DL	LOD	LOQ	Q
67-64-1	Acetone	111.0	13.5	26.9	53.9	
71-43-2	Benzene	54.83	1.35	2.69	5.39	
74-97-5	Bromochloromethane	53.73	1.35	2.69	5.39	
75-27-4	Bromodichloromethane	50.34	1.35	2.69	5.39	
75-25-2	Bromoform	56.77	1.35	2.69	5.39	
74-83-9	Bromomethane	93.48	2.69	5.39	10.8	X
78-93-3	2-Butanone	97.35	2.69	5.39	10.8	
75-15-0	Carbon disulfide	43.03	1.35	2.69	5.39	
56-23-5	Carbon tetrachloride	55.10	1.35	2.69	5.39	
108-90-7	Chlorobenzene	53.36	1.35	2.69	5.39	
75-00-3	Chloroethane	54.37	2.69	5.39	10.8	
67-66-3	Chloroform	51.96	1.35	2.69	5.39	
74-87-3	Chloromethane	51.60	2.69	5.39	10.8	
110-82-7	Cyclohexane	43.81	1.35	2.69	5.39	
124-48-1	Dibromochloromethane	53.25	1.35	2.69	5.39	
96-12-8	1,2-Dibromo-3-chloropropane	55.66	2.69	5.39	10.8	
106-93-4	1,2-Dibromoethane (EDB)	56.72	1.35	2.69	5.39	
95-50-1	1,2-Dichlorobenzene	47.56	1.35	2.69	5.39	
541-73-1	1,3-Dichlorobenzene	49.15	1.35	2.69	5.39	
106-46-7	1,4-Dichlorobenzene	50.38	1.35	2.69	5.39	
75-71-8	Dichlorodifluoromethane	51.22	2.69	5.39	10.8	
75-34-3	1,1-Dichloroethane	50.79	1.35	2.69	5.39	
107-06-2	1,2-Dichloroethane	50.05	1.35	2.69	5.39	
75-35-4	1,1-Dichloroethene	52.66	1.35	2.69	5.39	
156-59-2	cis-1,2-Dichloroethene	54.26	1.35	2.69	5.39	
156-60-5	trans-1,2-Dichloroethene	52.98	1.35	2.69	5.39	
78-87-5	1,2-Dichloropropane	49.97	1.35	2.69	5.39	
10061-01-5	cis-1,3-Dichloropropene	53.64	1.35	2.69	5.39	
10061-02-6	trans-1,3-Dichloropropene	47.81	1.35	2.69	5.39	
123-91-1	1,4-Dioxane	966.7	53.9	108	215	
100-41-4	Ethylbenzene	54.66	1.35	2.69	5.39	
591-78-6	2-Hexanone	106.6	2.69	5.39	10.8	
98-82-8	Isopropylbenzene	51.08	1.35	2.69	5.39	
75-09-2	Methylene chloride	53.44	1.35	2.69	5.39	
79-20-9	Methyl Acetate	50.49	2.69	5.39	10.8	
108-87-2	Methylcyclohexane	44.43	1.35	2.69	5.39	
108-10-1	4-Methyl-2-pentanone	109.8	2.69	5.39	10.8	
1634-04-4	Methyl t-Butyl Ether	52.51	1.35	2.69	5.39	Y
100-42-5	Styrene	54.31	1.35	2.69	5.39	
79-34-5	1,1,2,2-Tetrachloroethane	60.01	1.35	2.69	5.39	

ANALYSIS DATA SHEET

Matrix Spike

Laboratory: Empirical Laboratories, LLC SDG: 1109191

Client: Tetra Tech NUS, Inc. (T010) Project: Navy Fuel Depot CTO JM46

Matrix: Laboratory ID: 1I27005-MS1 File ID: 0919102M.D

Sampled: Prepared: Analyzed: 09/27/11 17:58

Solids: Preparation: 5035 Dilution:

Batch: 1I27005 Sequence: 1I27024 Calibration: 1266001 Instrument: MS-VOA5

CAS NO.	COMPOUND	ONC. (ug/Kg dry	DL	LOD	LOQ	Q
630-20-6	1,1,1,2-Tetrachloroethane	53.05	1.35	2.69	5.39	
127-18-4	Tetrachloroethene	54.76	1.35	2.69	5.39	
108-88-3	Toluene	58.25	1.35	2.69	5.39	
87-61-6	1,2,3-Trichlorobenzene	26.54	1.35	2.69	5.39	
120-82-1	1,2,4-Trichlorobenzene	31.73	1.35	2.69	5.39	
79-00-5	1,1,2-Trichloroethane	55.80	1.35	2.69	5.39	
71-55-6	1,1,1-Trichloroethane	55.23	1.35	2.69	5.39	
79-01-6	Trichloroethene	49.39	1.35	2.69	5.39	
75-69-4	Trichlorofluoromethane	56.42	2.69	5.39	10.8	
76-13-1	1,1,2-Trichloro-1,2,2-trifluoroethane	48.50	2.69	5.39	10.8	
75-01-4	Vinyl chloride	67.24	2.69	5.39	10.8	
108-38-3/106-42-	m,p-Xylene	111.5	2.69	5.39	10.8	
95-47-6	o-Xylene	55.17	1.35	2.69	5.39	

SYSTEM MONITORING COMPOUND	ADDED (ug/Kg dry)	CONC (ug/Kg dry)	% REC	QC LIMITS	Q
Bromofluorobenzene	32.31	34.40	106	85 - 120	
Dibromofluoromethane	32.31	36.13	112	80 - 125	
1,2-Dichloroethane-d4	32.31	32.75	101	75 - 140	
Toluene-d8	32.31	34.42	107	85 - 115	

ANALYSIS DATA SHEET

Matrix Spike Dup

Laboratory: Empirical Laboratories, LLC SDG: 1109191

Client: Tetra Tech NUS, Inc. (T010) Project: Navy Fuel Depot CTO JM46

Matrix: Laboratory ID: 1I27005-MSD1 File ID: 0919102S.D

Sampled: Prepared: Analyzed: 09/27/11 18:24

Solids: Preparation: 5035 Dilution:

Batch: 1I27005 Sequence: 1I27024 Calibration: 1266001 Instrument: MS-VOA5

CAS NO.	COMPOUND	ONC. (ug/Kg dry	DL	LOD	LOQ	Q
67-64-1	Acetone	144.2	13.6	27.3	54.5	
71-43-2	Benzene	65.50	1.36	2.73	5.45	
74-97-5	Bromochloromethane	66.07	1.36	2.73	5.45	
75-27-4	Bromodichloromethane	61.31	1.36	2.73	5.45	
75-25-2	Bromoform	71.19	1.36	2.73	5.45	
74-83-9	Bromomethane	104.1	2.73	5.45	10.9	X
78-93-3	2-Butanone	116.4	2.73	5.45	10.9	
75-15-0	Carbon disulfide	51.75	1.36	2.73	5.45	
56-23-5	Carbon tetrachloride	68.24	1.36	2.73	5.45	
108-90-7	Chlorobenzene	63.19	1.36	2.73	5.45	
75-00-3	Chloroethane	65.06	2.73	5.45	10.9	
67-66-3	Chloroform	62.84	1.36	2.73	5.45	
74-87-3	Chloromethane	60.80	2.73	5.45	10.9	
110-82-7	Cyclohexane	51.64	1.36	2.73	5.45	
124-48-1	Dibromochloromethane	66.30	1.36	2.73	5.45	
96-12-8	1,2-Dibromo-3-chloropropane	71.65	2.73	5.45	10.9	
106-93-4	1,2-Dibromoethane (EDB)	69.82	1.36	2.73	5.45	
95-50-1	1,2-Dichlorobenzene	56.16	1.36	2.73	5.45	
541-73-1	1,3-Dichlorobenzene	58.13	1.36	2.73	5.45	
106-46-7	1,4-Dichlorobenzene	59.38	1.36	2.73	5.45	
75-71-8	Dichlorodifluoromethane	61.64	2.73	5.45	10.9	
75-34-3	1,1-Dichloroethane	62.74	1.36	2.73	5.45	
107-06-2	1,2-Dichloroethane	61.25	1.36	2.73	5.45	
75-35-4	1,1-Dichloroethene	62.67	1.36	2.73	5.45	
156-59-2	cis-1,2-Dichloroethene	65.57	1.36	2.73	5.45	
156-60-5	trans-1,2-Dichloroethene	62.59	1.36	2.73	5.45	
78-87-5	1,2-Dichloropropane	59.56	1.36	2.73	5.45	
10061-01-5	cis-1,3-Dichloropropene	64.01	1.36	2.73	5.45	
10061-02-6	trans-1,3-Dichloropropene	58.20	1.36	2.73	5.45	
123-91-1	1,4-Dioxane	1301	54.5	109	218	
100-41-4	Ethylbenzene	65.27	1.36	2.73	5.45	
591-78-6	2-Hexanone	143.7	2.73	5.45	10.9	
98-82-8	Isopropylbenzene	60.44	1.36	2.73	5.45	
75-09-2	Methylene chloride	63.75	1.36	2.73	5.45	
79-20-9	Methyl Acetate	68.36	2.73	5.45	10.9	
108-87-2	Methylcyclohexane	51.06	1.36	2.73	5.45	
108-10-1	4-Methyl-2-pentanone	137.4	2.73	5.45	10.9	
1634-04-4	Methyl t-Butyl Ether	65.39	1.36	2.73	5.45	Y
100-42-5	Styrene	66.80	1.36	2.73	5.45	
79-34-5	1,1,2,2-Tetrachloroethane	71.96	1.36	2.73	5.45	

ANALYSIS DATA SHEET

Matrix Spike Dup

Laboratory: Empirical Laboratories, LLC SDG: 1109191

Client: Tetra Tech NUS, Inc. (T010) Project: Navy Fuel Depot CTO JM46

Matrix: Laboratory ID: 1I27005-MSD1 File ID: 0919102S.D

Sampled: Prepared: Analyzed: 09/27/11 18:24

Solids: Preparation: 5035 Dilution:

Batch: 1I27005 Sequence: 1I27024 Calibration: 1266001 Instrument: MS-VOA5

CAS NO.	COMPOUND	ONC. (ug/Kg dry	DL	LOD	LOQ	Q
630-20-6	1,1,1,2-Tetrachloroethane	65.73	1.36	2.73	5.45	
127-18-4	Tetrachloroethene	66.36	1.36	2.73	5.45	
108-88-3	Toluene	69.55	1.36	2.73	5.45	
87-61-6	1,2,3-Trichlorobenzene	30.73	1.36	2.73	5.45	
120-82-1	1,2,4-Trichlorobenzene	37.36	1.36	2.73	5.45	
79-00-5	1,1,2-Trichloroethane	68.12	1.36	2.73	5.45	
71-55-6	1,1,1-Trichloroethane	66.87	1.36	2.73	5.45	
79-01-6	Trichloroethene	59.22	1.36	2.73	5.45	
75-69-4	Trichlorofluoromethane	67.93	2.73	5.45	10.9	
76-13-1	1,1,2-Trichloro-1,2,2-trifluoroethane	59.08	2.73	5.45	10.9	
75-01-4	Vinyl chloride	79.95	2.73	5.45	10.9	
108-38-3/106-42-	m,p-Xylene	132.3	2.73	5.45	10.9	
95-47-6	o-Xylene	66.44	1.36	2.73	5.45	

SYSTEM MONITORING COMPOUND	ADDED (ug/Kg dry)	CONC (ug/Kg dry)	% REC	QC LIMITS	Q
Bromofluorobenzene	32.72	35.32	108	85 - 120	
Dibromofluoromethane	32.72	37.09	113	80 - 125	
1,2-Dichloroethane-d4	32.72	34.87	107	75 - 140	
Toluene-d8	32.72	35.59	109	85 - 115	

ANALYSIS DATA SHEET

Blank

Laboratory: Empirical Laboratories, LLC SDG: 1109191

Client: Tetra Tech NUS, Inc. (T010) Project: Navy Fuel Depot CTO JM46

Matrix: Laboratory ID: 1I28022-BLK1 File ID: 928BLK1E.D

Sampled: Prepared: Analyzed: 09/28/11 22:36

Solids: Preparation: 5030B Dilution:

Batch: 1I28022 Sequence: 1I27207 Calibration: 1258002 Instrument: MS-VOA6

CAS NO.	COMPOUND	CONC. (ug/L)	DL	LOD	LOQ	Q
67-64-1	Acetone		2.50	5.00	10.0	U
71-43-2	Benzene		0.250	0.500	1.00	U
74-97-5	Bromochloromethane		0.250	1.00	2.00	U
75-27-4	Bromodichloromethane		0.250	0.500	1.00	U
75-25-2	Bromoform		0.250	0.500	1.00	X, U
74-83-9	Bromomethane		0.500	1.00	2.00	U
78-93-3	2-Butanone		2.50	5.00	10.0	U
75-15-0	Carbon disulfide		0.250	0.500	1.00	U
56-23-5	Carbon tetrachloride		0.250	0.500	1.00	U
108-90-7	Chlorobenzene		0.250	0.500	1.00	U
75-00-3	Chloroethane		0.500	1.00	2.00	U
67-66-3	Chloroform		0.250	0.500	1.00	U
74-87-3	Chloromethane		0.500	1.00	2.00	U
110-82-7	Cyclohexane		0.500	1.00	2.00	Y, U
124-48-1	Dibromochloromethane		0.250	0.500	1.00	U
96-12-8	1,2-Dibromo-3-chloropropane		0.500	1.00	2.00	U
106-93-4	1,2-Dibromoethane (EDB)		0.250	0.500	1.00	U
95-50-1	1,2-Dichlorobenzene		0.250	0.500	1.00	U
541-73-1	1,3-Dichlorobenzene		0.250	0.500	1.00	U
106-46-7	1,4-Dichlorobenzene		0.250	0.500	1.00	U
75-71-8	Dichlorodifluoromethane		0.500	1.00	2.00	U
75-34-3	1,1-Dichloroethane		0.250	0.500	1.00	U
107-06-2	1,2-Dichloroethane		0.250	0.500	1.00	U
75-35-4	1,1-Dichloroethene		0.250	0.500	1.00	U
156-59-2	cis-1,2-Dichloroethene		0.250	0.500	1.00	U
156-60-5	trans-1,2-Dichloroethene		0.250	0.500	1.00	U
78-87-5	1,2-Dichloropropane		0.250	0.500	1.00	U
10061-01-5	cis-1,3-Dichloropropene		0.250	0.500	1.00	U
10061-02-6	trans-1,3-Dichloropropene		0.250	0.500	1.00	U
100-41-4	Ethylbenzene		0.250	0.500	1.00	U
591-78-6	2-Hexanone		1.25	2.50	5.00	U
98-82-8	Isopropylbenzene		0.250	0.500	1.00	U
75-09-2	Methylene chloride		0.500	1.00	2.00	Y, U
79-20-9	Methyl Acetate		0.500	1.00	2.00	Y, U
108-87-2	Methylcyclohexane		0.250	0.500	1.00	U
108-10-1	4-Methyl-2-pentanone		1.25	2.50	5.00	U
1634-04-4	Methyl t-Butyl Ether		0.250	0.500	1.00	U
100-42-5	Styrene		0.250	0.500	1.00	U
79-34-5	1,1,2,2-Tetrachloroethane		0.250	0.500	1.00	U
630-20-6	1,1,1,2-Tetrachloroethane		0.250	0.500	1.00	U

ANALYSIS DATA SHEET

Blank

Laboratory: Empirical Laboratories, LLC SDG: 1109191

Client: Tetra Tech NUS, Inc. (T010) Project: Navy Fuel Depot CTO JM46

Matrix: Laboratory ID: 1I28022-BLK1 File ID: 928BLK1E.D

Sampled: Prepared: Analyzed: 09/28/11 22:36

Solids: Preparation: 5030B Dilution:

Batch: 1I28022 Sequence: 1I27207 Calibration: 1258002 Instrument: MS-VOA6

CAS NO.	COMPOUND	CONC. (ug/L)	DL	LOD	LOQ	Q
127-18-4	Tetrachloroethene		0.250	0.500	1.00	U
108-88-3	Toluene		0.250	0.500	1.00	U
87-61-6	1,2,3-Trichlorobenzene		0.250	0.500	1.00	X, U
120-82-1	1,2,4-Trichlorobenzene		0.250	0.500	1.00	X, U
79-00-5	1,1,2-Trichloroethane		0.250	0.500	1.00	U
71-55-6	1,1,1-Trichloroethane		0.250	0.500	1.00	U
79-01-6	Trichloroethene		0.250	0.500	1.00	U
75-69-4	Trichlorofluoromethane		0.500	1.00	2.00	U
76-13-1	1,1,2-Trichloro-1,2,2-trifluoroethane		0.250	0.500	1.00	U
75-01-4	Vinyl chloride		0.500	1.00	2.00	U
108-38-3/106-42-	m,p-Xylene		0.500	1.00	2.00	U
95-47-6	o-Xylene		0.250	0.500	1.00	U

SYSTEM MONITORING COMPOUND	ADDED (ug/L)	CONC (ug/L)	% REC	QC LIMITS	Q
Bromofluorobenzene	30.00	30.22	101	75 - 120	
Dibromofluoromethane	30.00	30.90	103	85 - 115	
1,2-Dichloroethane-d4	30.00	29.54	98.5	70 - 120	
Toluene-d8	30.00	32.30	108	85 - 120	

ANALYSIS DATA SHEET

LCS

Laboratory: Empirical Laboratories, LLC SDG: 1109191

Client: Tetra Tech NUS, Inc. (T010) Project: Navy Fuel Depot CTO JM46

Matrix: Laboratory ID: 1I28022-BS1 File ID: 928LCS1E.D

Sampled: Prepared: Analyzed: 09/28/11 21:18

Solids: Preparation: 5030B Dilution:

Batch: 1I28022 Sequence: 1I27207 Calibration: 1258002 Instrument: MS-VOA6

CAS NO.	COMPOUND	CONC. (ug/L)	DL	LOD	LOQ	Q
67-64-1	Acetone	79.5	2.50	5.00	10.0	
71-43-2	Benzene	41.1	0.250	0.500	1.00	
74-97-5	Bromochloromethane	45.8	0.250	1.00	2.00	
75-27-4	Bromodichloromethane	42.9	0.250	0.500	1.00	
75-25-2	Bromoform	54.7	0.250	0.500	1.00	X
74-83-9	Bromomethane	39.8	0.500	1.00	2.00	
78-93-3	2-Butanone	72.0	2.50	5.00	10.0	
75-15-0	Carbon disulfide	36.6	0.250	0.500	1.00	
56-23-5	Carbon tetrachloride	48.9	0.250	0.500	1.00	
108-90-7	Chlorobenzene	48.2	0.250	0.500	1.00	
75-00-3	Chloroethane	46.7	0.500	1.00	2.00	
67-66-3	Chloroform	44.3	0.250	0.500	1.00	
74-87-3	Chloromethane	42.4	0.500	1.00	2.00	
110-82-7	Cyclohexane	34.8	0.500	1.00	2.00	Y
124-48-1	Dibromochloromethane	49.3	0.250	0.500	1.00	
96-12-8	1,2-Dibromo-3-chloropropane	51.5	0.500	1.00	2.00	
106-93-4	1,2-Dibromoethane (EDB)	47.8	0.250	0.500	1.00	
95-50-1	1,2-Dichlorobenzene	52.0	0.250	0.500	1.00	
541-73-1	1,3-Dichlorobenzene	51.1	0.250	0.500	1.00	
106-46-7	1,4-Dichlorobenzene	51.8	0.250	0.500	1.00	
75-71-8	Dichlorodifluoromethane	50.9	0.500	1.00	2.00	
75-34-3	1,1-Dichloroethane	41.5	0.250	0.500	1.00	
107-06-2	1,2-Dichloroethane	46.3	0.250	0.500	1.00	
75-35-4	1,1-Dichloroethene	43.1	0.250	0.500	1.00	
156-59-2	cis-1,2-Dichloroethene	42.4	0.250	0.500	1.00	
156-60-5	trans-1,2-Dichloroethene	40.2	0.250	0.500	1.00	
78-87-5	1,2-Dichloropropane	39.3	0.250	0.500	1.00	
10061-01-5	cis-1,3-Dichloropropene	42.9	0.250	0.500	1.00	
10061-02-6	trans-1,3-Dichloropropene	41.5	0.250	0.500	1.00	
100-41-4	Ethylbenzene	48.0	0.250	0.500	1.00	
591-78-6	2-Hexanone	78.7	1.25	2.50	5.00	
98-82-8	Isopropylbenzene	47.8	0.250	0.500	1.00	
75-09-2	Methylene chloride	40.4	0.500	1.00	2.00	Y
79-20-9	Methyl Acetate	37.5	0.500	1.00	2.00	Y
108-87-2	Methylcyclohexane	40.1	0.250	0.500	1.00	
108-10-1	4-Methyl-2-pentanone	76.3	1.25	2.50	5.00	
1634-04-4	Methyl t-Butyl Ether	40.5	0.250	0.500	1.00	
100-42-5	Styrene	47.4	0.250	0.500	1.00	
79-34-5	1,1,2,2-Tetrachloroethane	45.7	0.250	0.500	1.00	
630-20-6	1,1,1,2-Tetrachloroethane	48.5	0.250	0.500	1.00	

ANALYSIS DATA SHEET

LCS

Laboratory: Empirical Laboratories, LLC SDG: 1109191

Client: Tetra Tech NUS, Inc. (T010) Project: Navy Fuel Depot CTO JM46

Matrix: Laboratory ID: 1I28022-BS1 File ID: 928LCS1E.D

Sampled: Prepared: Analyzed: 09/28/11 21:18

Solids: Preparation: 5030B Dilution:

Batch: 1I28022 Sequence: 1I27207 Calibration: 1258002 Instrument: MS-VOA6

CAS NO.	COMPOUND	CONC. (ug/L)	DL	LOD	LOQ	Q
127-18-4	Tetrachloroethene	49.2	0.250	0.500	1.00	
108-88-3	Toluene	45.7	0.250	0.500	1.00	
87-61-6	1,2,3-Trichlorobenzene	64.1	0.250	0.500	1.00	X
120-82-1	1,2,4-Trichlorobenzene	59.4	0.250	0.500	1.00	X
79-00-5	1,1,2-Trichloroethane	44.9	0.250	0.500	1.00	
71-55-6	1,1,1-Trichloroethane	48.4	0.250	0.500	1.00	
79-01-6	Trichloroethene	43.9	0.250	0.500	1.00	
75-69-4	Trichlorofluoromethane	49.5	0.500	1.00	2.00	
76-13-1	1,1,2-Trichloro-1,2,2-trifluoroethane	41.5	0.250	0.500	1.00	
75-01-4	Vinyl chloride	52.8	0.500	1.00	2.00	
108-38-3/106-42-	m,p-Xylene	98.0	0.500	1.00	2.00	
95-47-6	o-Xylene	48.4	0.250	0.500	1.00	

SYSTEM MONITORING COMPOUND	ADDED (ug/L)	CONC (ug/L)	% REC	QC LIMITS	Q
Bromofluorobenzene	30.00	31.11	104	75 - 120	
Dibromofluoromethane	30.00	29.99	100	85 - 115	
1,2-Dichloroethane-d4	30.00	28.72	95.7	70 - 120	
Toluene-d8	30.00	32.76	109	85 - 120	

ANALYSIS DATA SHEET

Blank

Laboratory: Empirical Laboratories, LLC SDG: 1109191

Client: Tetra Tech NUS, Inc. (T010) Project: Navy Fuel Depot CTO JM46

Matrix: Laboratory ID: 1I28025-BLK1 File ID: 0928BLK1.D

Sampled: Prepared: Analyzed: 09/28/11 12:41

Solids: Preparation: 5035 Dilution:

Batch: 1I28025 Sequence: 1I27201 Calibration: 1266001 Instrument: MS-VOA5

CAS NO.	COMPOUND	ONC. (ug/Kg we	DL	LOD	LOQ	Q
67-64-1	Acetone		12.5	25.0	50.0	Q, X, U
71-43-2	Benzene		1.25	2.50	5.00	U
74-97-5	Bromochloromethane		1.25	2.50	5.00	U
75-27-4	Bromodichloromethane		1.25	2.50	5.00	U
75-25-2	Bromoform		1.25	2.50	5.00	X, U
74-83-9	Bromomethane		2.50	5.00	10.0	Q, X, U
78-93-3	2-Butanone		2.50	5.00	10.0	U
75-15-0	Carbon disulfide		1.25	2.50	5.00	U
56-23-5	Carbon tetrachloride		1.25	2.50	5.00	U
108-90-7	Chlorobenzene		1.25	2.50	5.00	U
75-00-3	Chloroethane		2.50	5.00	10.0	U
67-66-3	Chloroform		1.25	2.50	5.00	U
74-87-3	Chloromethane		2.50	5.00	10.0	U
110-82-7	Cyclohexane		1.25	2.50	5.00	U
124-48-1	Dibromochloromethane		1.25	2.50	5.00	U
96-12-8	1,2-Dibromo-3-chloropropane		2.50	5.00	10.0	U
106-93-4	1,2-Dibromoethane (EDB)		1.25	2.50	5.00	U
95-50-1	1,2-Dichlorobenzene		1.25	2.50	5.00	U
541-73-1	1,3-Dichlorobenzene		1.25	2.50	5.00	U
106-46-7	1,4-Dichlorobenzene		1.25	2.50	5.00	U
75-71-8	Dichlorodifluoromethane		2.50	5.00	10.0	U
75-34-3	1,1-Dichloroethane		1.25	2.50	5.00	U
107-06-2	1,2-Dichloroethane		1.25	2.50	5.00	U
75-35-4	1,1-Dichloroethene		1.25	2.50	5.00	U
156-59-2	cis-1,2-Dichloroethene		1.25	2.50	5.00	U
156-60-5	trans-1,2-Dichloroethene		1.25	2.50	5.00	U
78-87-5	1,2-Dichloropropane		1.25	2.50	5.00	U
10061-01-5	cis-1,3-Dichloropropene		1.25	2.50	5.00	U
10061-02-6	trans-1,3-Dichloropropene		1.25	2.50	5.00	U
123-91-1	1,4-Dioxane		50.0	100	200	U
100-41-4	Ethylbenzene		1.25	2.50	5.00	U
591-78-6	2-Hexanone		2.50	5.00	10.0	Q, U
98-82-8	Isopropylbenzene		1.25	2.50	5.00	U
75-09-2	Methylene chloride	3.91	1.25	2.50	5.00	I
79-20-9	Methyl Acetate		2.50	5.00	10.0	U
108-87-2	Methylcyclohexane		1.25	2.50	5.00	U
108-10-1	4-Methyl-2-pentanone		2.50	5.00	10.0	U
1634-04-4	Methyl t-Butyl Ether		1.25	2.50	5.00	Y, U
100-42-5	Styrene		1.25	2.50	5.00	U
79-34-5	1,1,2,2-Tetrachloroethane		1.25	2.50	5.00	U

ANALYSIS DATA SHEET

Blank

Laboratory: Empirical Laboratories, LLC SDG: 1109191

Client: Tetra Tech NUS, Inc. (T010) Project: Navy Fuel Depot CTO JM46

Matrix: Laboratory ID: 1I28025-BLK1 File ID: 0928BLK1.D

Sampled: Prepared: Analyzed: 09/28/11 12:41

Solids: Preparation: 5035 Dilution:

Batch: 1I28025 Sequence: 1I27201 Calibration: 1266001 Instrument: MS-VOA5

CAS NO.	COMPOUND	ONC. (ug/Kg we	DL	LOD	LOQ	Q
630-20-6	1,1,1,2-Tetrachloroethane		1.25	2.50	5.00	U
127-18-4	Tetrachloroethene		1.25	2.50	5.00	U
108-88-3	Toluene		1.25	2.50	5.00	U
87-61-6	1,2,3-Trichlorobenzene		1.25	2.50	5.00	U
120-82-1	1,2,4-Trichlorobenzene		1.25	2.50	5.00	U
79-00-5	1,1,2-Trichloroethane		1.25	2.50	5.00	U
71-55-6	1,1,1-Trichloroethane		1.25	2.50	5.00	U
79-01-6	Trichloroethene		1.25	2.50	5.00	U
75-69-4	Trichlorofluoromethane		2.50	5.00	10.0	U
76-13-1	1,1,2-Trichloro-1,2,2-trifluoroethane		2.50	5.00	10.0	U
75-01-4	Vinyl chloride		2.50	5.00	10.0	X, Q, U
108-38-3/106-42-	m,p-Xylene		2.50	5.00	10.0	U
95-47-6	o-Xylene		1.25	2.50	5.00	U

SYSTEM MONITORING COMPOUND	ADDED (ug/Kg wet)	CONC (ug/Kg wet)	% REC	QC LIMITS	Q
Bromofluorobenzene	30.00	31.24	104	85 - 120	
Dibromofluoromethane	30.00	32.22	107	80 - 125	
1,2-Dichloroethane-d4	30.00	31.02	103	75 - 140	
Toluene-d8	30.00	30.12	100	85 - 115	

ANALYSIS DATA SHEET

LCS

Laboratory: Empirical Laboratories, LLC SDG: 1109191

Client: Tetra Tech NUS, Inc. (T010) Project: Navy Fuel Depot CTO JM46

Matrix: Laboratory ID: 1I28025-BS1 File ID: 0928LCS1.D

Sampled: Prepared: Analyzed: 09/28/11 10:37

Solids: Preparation: 5035 Dilution:

Batch: 1I28025 Sequence: 1I27201 Calibration: 1266001 Instrument: MS-VOA5

CAS NO.	COMPOUND	ONC. (ug/Kg we	DL	LOD	LOQ	Q
67-64-1	Acetone	205.9	12.5	25.0	50.0	X
71-43-2	Benzene	50.05	1.25	2.50	5.00	
74-97-5	Bromochloromethane	51.25	1.25	2.50	5.00	
75-27-4	Bromodichloromethane	48.35	1.25	2.50	5.00	
75-25-2	Bromoform	55.67	1.25	2.50	5.00	X
74-83-9	Bromomethane	87.47	2.50	5.00	10.0	X
78-93-3	2-Butanone	147.0	2.50	5.00	10.0	
75-15-0	Carbon disulfide	40.76	1.25	2.50	5.00	
56-23-5	Carbon tetrachloride	49.19	1.25	2.50	5.00	
108-90-7	Chlorobenzene	51.36	1.25	2.50	5.00	
75-00-3	Chloroethane	51.89	2.50	5.00	10.0	
67-66-3	Chloroform	48.43	1.25	2.50	5.00	
74-87-3	Chloromethane	53.35	2.50	5.00	10.0	
110-82-7	Cyclohexane	42.12	1.25	2.50	5.00	
124-48-1	Dibromochloromethane	50.85	1.25	2.50	5.00	
96-12-8	1,2-Dibromo-3-chloropropane	51.77	2.50	5.00	10.0	
106-93-4	1,2-Dibromoethane (EDB)	51.85	1.25	2.50	5.00	
95-50-1	1,2-Dichlorobenzene	50.94	1.25	2.50	5.00	
541-73-1	1,3-Dichlorobenzene	50.63	1.25	2.50	5.00	
106-46-7	1,4-Dichlorobenzene	52.68	1.25	2.50	5.00	
75-71-8	Dichlorodifluoromethane	56.89	2.50	5.00	10.0	
75-34-3	1,1-Dichloroethane	46.93	1.25	2.50	5.00	
107-06-2	1,2-Dichloroethane	48.68	1.25	2.50	5.00	
75-35-4	1,1-Dichloroethene	47.02	1.25	2.50	5.00	
156-59-2	cis-1,2-Dichloroethene	51.23	1.25	2.50	5.00	
156-60-5	trans-1,2-Dichloroethene	49.11	1.25	2.50	5.00	
78-87-5	1,2-Dichloropropane	47.77	1.25	2.50	5.00	
10061-01-5	cis-1,3-Dichloropropene	53.60	1.25	2.50	5.00	
10061-02-6	trans-1,3-Dichloropropene	46.71	1.25	2.50	5.00	
123-91-1	1,4-Dioxane	1038	50.0	100	200	
100-41-4	Ethylbenzene	50.75	1.25	2.50	5.00	
591-78-6	2-Hexanone	148.1	2.50	5.00	10.0	
98-82-8	Isopropylbenzene	50.80	1.25	2.50	5.00	
75-09-2	Methylene chloride	48.27	1.25	2.50	5.00	
79-20-9	Methyl Acetate	45.57	2.50	5.00	10.0	
108-87-2	Methylcyclohexane	48.41	1.25	2.50	5.00	
108-10-1	4-Methyl-2-pentanone	113.9	2.50	5.00	10.0	
1634-04-4	Methyl t-Butyl Ether	35.27	1.25	2.50	5.00	Y
100-42-5	Styrene	55.11	1.25	2.50	5.00	
79-34-5	1,1,2,2-Tetrachloroethane	49.06	1.25	2.50	5.00	

ANALYSIS DATA SHEET

LCS

Laboratory: Empirical Laboratories, LLC SDG: 1109191

Client: Tetra Tech NUS, Inc. (T010) Project: Navy Fuel Depot CTO JM46

Matrix: Laboratory ID: 1I28025-BS1 File ID: 0928LCS1.D

Sampled: Prepared: Analyzed: 09/28/11 10:37

Solids: Preparation: 5035 Dilution:

Batch: 1I28025 Sequence: 1I27201 Calibration: 1266001 Instrument: MS-VOA5

CAS NO.	COMPOUND	ONC. (ug/Kg we	DL	LOD	LOQ	Q
630-20-6	1,1,1,2-Tetrachloroethane	50.81	1.25	2.50	5.00	
127-18-4	Tetrachloroethene	50.99	1.25	2.50	5.00	
108-88-3	Toluene	50.60	1.25	2.50	5.00	
87-61-6	1,2,3-Trichlorobenzene	56.01	1.25	2.50	5.00	
120-82-1	1,2,4-Trichlorobenzene	56.23	1.25	2.50	5.00	
79-00-5	1,1,2-Trichloroethane	52.02	1.25	2.50	5.00	
71-55-6	1,1,1-Trichloroethane	49.31	1.25	2.50	5.00	
79-01-6	Trichloroethene	47.94	1.25	2.50	5.00	
75-69-4	Trichlorofluoromethane	49.68	2.50	5.00	10.0	
76-13-1	1,1,2-Trichloro-1,2,2-trifluoroethane	43.92	2.50	5.00	10.0	
75-01-4	Vinyl chloride	71.25	2.50	5.00	10.0	X
108-38-3/106-42-	m,p-Xylene	105.5	2.50	5.00	10.0	
95-47-6	o-Xylene	53.02	1.25	2.50	5.00	

SYSTEM MONITORING COMPOUND	ADDED (ug/Kg wet)	CONC (ug/Kg wet)	% REC	QC LIMITS	Q
Bromofluorobenzene	30.00	32.97	110	85 - 120	
Dibromofluoromethane	30.00	32.46	108	80 - 125	
1,2-Dichloroethane-d4	30.00	30.59	102	75 - 140	
Toluene-d8	30.00	30.21	101	85 - 115	

ANALYSIS DATA SHEET

LCS Dup

Laboratory: Empirical Laboratories, LLC SDG: 1109191

Client: Tetra Tech NUS, Inc. (T010) Project: Navy Fuel Depot CTO JM46

Matrix: Laboratory ID: 1I28025-BSD1 File ID: 0928LCD1.D

Sampled: Prepared: Analyzed: 09/28/11 21:30

Solids: Preparation: 5035 Dilution:

Batch: 1I28025 Sequence: 1I27201 Calibration: 1266001 Instrument: MS-VOA5

CAS NO.	COMPOUND	ONC. (ug/Kg we	DL	LOD	LOQ	Q
67-64-1	Acetone	156.5	12.5	25.0	50.0	X
71-43-2	Benzene	46.56	1.25	2.50	5.00	
74-97-5	Bromochloromethane	48.53	1.25	2.50	5.00	
75-27-4	Bromodichloromethane	46.27	1.25	2.50	5.00	
75-25-2	Bromoform	51.52	1.25	2.50	5.00	X
74-83-9	Bromomethane	85.13	2.50	5.00	10.0	X
78-93-3	2-Butanone	124.3	2.50	5.00	10.0	
75-15-0	Carbon disulfide	36.36	1.25	2.50	5.00	
56-23-5	Carbon tetrachloride	44.31	1.25	2.50	5.00	
108-90-7	Chlorobenzene	46.48	1.25	2.50	5.00	
75-00-3	Chloroethane	45.61	2.50	5.00	10.0	
67-66-3	Chloroform	44.86	1.25	2.50	5.00	
74-87-3	Chloromethane	47.67	2.50	5.00	10.0	
110-82-7	Cyclohexane	36.89	1.25	2.50	5.00	
124-48-1	Dibromochloromethane	46.78	1.25	2.50	5.00	
96-12-8	1,2-Dibromo-3-chloropropane	46.55	2.50	5.00	10.0	
106-93-4	1,2-Dibromoethane (EDB)	50.25	1.25	2.50	5.00	
95-50-1	1,2-Dichlorobenzene	45.96	1.25	2.50	5.00	
541-73-1	1,3-Dichlorobenzene	43.64	1.25	2.50	5.00	
106-46-7	1,4-Dichlorobenzene	45.49	1.25	2.50	5.00	
75-71-8	Dichlorodifluoromethane	50.17	2.50	5.00	10.0	
75-34-3	1,1-Dichloroethane	43.84	1.25	2.50	5.00	
107-06-2	1,2-Dichloroethane	45.72	1.25	2.50	5.00	
75-35-4	1,1-Dichloroethene	42.19	1.25	2.50	5.00	
156-59-2	cis-1,2-Dichloroethene	48.31	1.25	2.50	5.00	
156-60-5	trans-1,2-Dichloroethene	44.87	1.25	2.50	5.00	
78-87-5	1,2-Dichloropropane	45.16	1.25	2.50	5.00	
10061-01-5	cis-1,3-Dichloropropene	49.56	1.25	2.50	5.00	
10061-02-6	trans-1,3-Dichloropropene	42.59	1.25	2.50	5.00	
123-91-1	1,4-Dioxane	961.5	50.0	100	200	
100-41-4	Ethylbenzene	46.50	1.25	2.50	5.00	
591-78-6	2-Hexanone	109.5	2.50	5.00	10.0	
98-82-8	Isopropylbenzene	45.94	1.25	2.50	5.00	
75-09-2	Methylene chloride	48.27	1.25	2.50	5.00	
79-20-9	Methyl Acetate	43.14	2.50	5.00	10.0	
108-87-2	Methylcyclohexane	41.16	1.25	2.50	5.00	
108-10-1	4-Methyl-2-pentanone	93.59	2.50	5.00	10.0	
1634-04-4	Methyl t-Butyl Ether	43.99	1.25	2.50	5.00	Y
100-42-5	Styrene	49.85	1.25	2.50	5.00	
79-34-5	1,1,2,2-Tetrachloroethane	44.12	1.25	2.50	5.00	

ANALYSIS DATA SHEET

LCS Dup

Laboratory: Empirical Laboratories, LLC SDG: 1109191

Client: Tetra Tech NUS, Inc. (T010) Project: Navy Fuel Depot CTO JM46

Matrix: Laboratory ID: 1I28025-BSD1 File ID: 0928LCD1.D

Sampled: Prepared: Analyzed: 09/28/11 21:30

Solids: Preparation: 5035 Dilution:

Batch: 1I28025 Sequence: 1I27201 Calibration: 1266001 Instrument: MS-VOA5

CAS NO.	COMPOUND	ONC. (ug/Kg we	DL	LOD	LOQ	Q
630-20-6	1,1,1,2-Tetrachloroethane	47.83	1.25	2.50	5.00	
127-18-4	Tetrachloroethene	44.58	1.25	2.50	5.00	
108-88-3	Toluene	45.98	1.25	2.50	5.00	
87-61-6	1,2,3-Trichlorobenzene	48.67	1.25	2.50	5.00	
120-82-1	1,2,4-Trichlorobenzene	48.05	1.25	2.50	5.00	
79-00-5	1,1,2-Trichloroethane	48.94	1.25	2.50	5.00	
71-55-6	1,1,1-Trichloroethane	45.15	1.25	2.50	5.00	
79-01-6	Trichloroethene	43.85	1.25	2.50	5.00	
75-69-4	Trichlorofluoromethane	43.63	2.50	5.00	10.0	
76-13-1	1,1,2-Trichloro-1,2,2-trifluoroethane	39.04	2.50	5.00	10.0	
75-01-4	Vinyl chloride	63.94	2.50	5.00	10.0	X
108-38-3/106-42-	m,p-Xylene	96.39	2.50	5.00	10.0	
95-47-6	o-Xylene	48.79	1.25	2.50	5.00	

SYSTEM MONITORING COMPOUND	ADDED (ug/Kg wet)	CONC (ug/Kg wet)	% REC	QC LIMITS	Q
Bromofluorobenzene	30.00	33.19	111	85 - 120	
Dibromofluoromethane	30.00	32.96	110	80 - 125	
1,2-Dichloroethane-d4	30.00	31.25	104	75 - 140	
Toluene-d8	30.00	30.57	102	85 - 115	

HOLDING TIME SUMMARY

SW8260B

Laboratory: Empirical Laboratories, LLC SDG: 1109191

Client: Tetra Tech NUS, Inc. (T010) Project: Navy Fuel Depot CTO JM46

Sample Name	Date Collected	Date Received	Date Prepared	Days to Prep	Max Days to Prep	Date Analyzed	Days to Analysis	Max Days to Analysis	Q
FLC-4-SS01-0006-092211	09/22/11 08:45	09/24/11 09:00	09/27/11 00:00	N/A	14.00	09/27/11 10:54	5.09	14.00	
FLC-4-SS01-0624-092211	09/22/11 09:00	09/24/11 09:00	09/27/11 00:00	N/A	14.00	09/27/11 11:21	5.10	14.00	
FLC-4-SB01-0204-092211	09/22/11 09:25	09/24/11 09:00	09/27/11 00:00	N/A	14.00	09/27/11 11:47	5.10	14.00	
FLC-4-SS02-0006-092211	09/22/11 10:05	09/24/11 09:00	09/27/11 00:00	N/A	14.00	09/27/11 12:14	5.09	14.00	
FLC-4-SS02-0006-092211	09/22/11 10:05	09/24/11 09:00	09/28/11 00:00	N/A	14.00	09/28/11 14:53	6.20	14.00	
FLC-4-SS02-0624-092211	09/22/11 10:20	09/24/11 09:00	09/28/11 00:00	N/A	14.00	09/28/11 15:46	6.23	14.00	
FLC-4-SB02-0204-092211	09/22/11 10:30	09/24/11 09:00	09/27/11 00:00	N/A	14.00	09/27/11 12:40	5.09	14.00	
FLC-4-RB01-092211	09/22/11 11:15	09/24/11 09:00	09/28/11 00:00	N/A	14.00	09/28/11 23:56	6.53	14.00	

Data for SW8260B
Supporting Raw Data / Logs

Comment: 8260B
Operator: ADM
Data Path: d:\DATA\091311V6\
Pre-Seq Cmd:
Post-Seq Cmd:

Ma/13/11

990

Method Sections To Run
(X) Full Method
( ) Reprocessing Only

On A Barcode Mismatch
(X) Inject Anyway
( ) Don't Inject

Line	Type	Vial	DataFile	Method	Sample Name
1	Sample	50	0913TUN1	VW6SUR	SEQ-TUN1 13:38, 9/13
2	Blank	100	BLANK1	VW6SUR	BLANK;;;;;
3	Blank	100	BLANK2	VW6SUR	BLANK;;;;;
4	Sample	1	0913CAL1	VW6SUR	SEQ-CAL1;;;;;
5	Sample	2	0913CAL2	VW6SUR	SEQ-CAL2;;;;;
6	Sample	3	0913CAL3	VW6SUR	SEQ-CAL3;;;;;
7	Sample	4	0913CAL4	VW6SUR	SEQ-CAL4;;;;;
8	Sample	5	0913CAL5	VW6SUR	SEQ-CAL5;;;;;
9	Sample	6	0913CAL6	VW6SUR	SEQ-CAL6;;;;;
10	Sample	7	0913CAL7	VW6SUR	SEQ-CAL7;;;;;
11	Sample	8	0913CAL8	VW6SUR	SEQ-CAL8;;;;;
12	Sample	9	0913CAL9	VW6SUR	SEQ-CAL9;;;;;
13	Blank	10	BLANK3	VW6SUR	BLANK;;;;;
14	Spike	11	0913ICV1	VW6SUR	SEQ-ICV1;;;;;
15	Spike	12	0913ICV2	VW6SUR	SEQ-ICV2;;;;;
16	Blank	100	BLANK4	VW6SUR	BLANK;;;;;
17	Sample	51	0913TUN2	VW6SUR	SEQ-TUN2 5:53, 9/14
18	Spike	13	0913ICV3	VW6SUR	SEQ-ICV3;;;;;

ICAL

HW

Last Modified: Wed Sep 14 05:03:31 2011

Report Date: 15-Sep-2011 09:32

Calibration History

Method : \\ELABNSH05\TARGET\chem\voa6.i\091311V6.b\VW6SUR.m
Start Cal Date: 13-SEP-2011 14:57
End Cal Date : 13-SEP-2011 18:30
Last Cal Level: 1
Last Cal Type : Initial Calibration

Initial Calibration

Injection Date	Sublist	Calibration File
Cal Level: 1 , Cal Amount: 0.5000		
13-SEP-2011 14:57	8260	0913CAL1.D
Cal Level: 2 , Cal Amount: 1.000		
13-SEP-2011 15:23	8260	0913CAL2.D
Cal Level: 3 , Cal Amount: 2.000		
13-SEP-2011 15:50	8260	0913CAL3.D
Cal Level: 4 , Cal Amount: 5.000		
13-SEP-2011 16:17	8260	0913CAL4.D
Cal Level: 5 , Cal Amount: 10.00		
13-SEP-2011 16:44	8260	0913CAL5.D
Cal Level: 6 , Cal Amount: 50.00		
13-SEP-2011 17:10	8260	0913CAL6.D
Cal Level: 7 , Cal Amount: 100.0		
13-SEP-2011 17:37	8260	0913CAL7.D
Cal Level: 8 , Cal Amount: 150.0		
13-SEP-2011 18:04	8260	0913CAL8.D
Cal Level: 9 , Cal Amount: 200.0		

13-SEP-2011 18:30	8260	0913CAL9.D

Continuing Calibration

13-SEP-2011 17:37	8260	0913CAL7.D

Data File: \\ELABNSH05\TARGET\chem\voa6.i\091311V6.b\0913TUN1.D

Date : 13-SEP-2011 13:38

Client ID: 25ppb BFB

Instrument: voa6.i

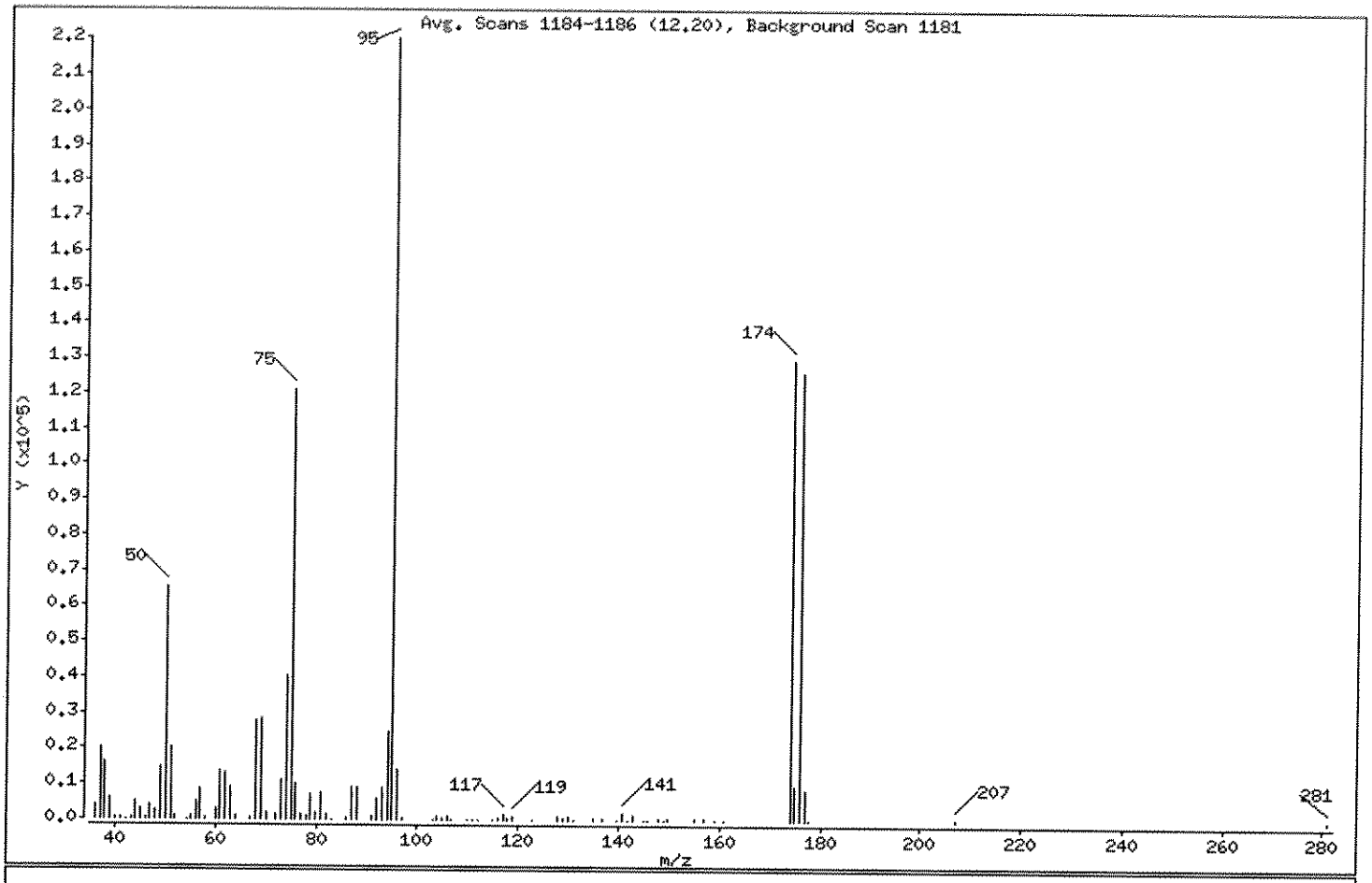
Sample Info: SEQ-TUN1

Operator: ADM

Column phase: RTX-VRX

Column diameter: 0.25

1 bfb



m/e	ION ABUNDANCE CRITERIA	% RELATIVE ABUNDANCE
95	Base Peak, 100% relative abundance	100.00
50	15.00 - 40.00% of mass 95	29.56
75	30.00 - 60.00% of mass 95	54.90
96	5.00 - 9.00% of mass 95	6.49
173	Less than 2.00% of mass 174	0.00 (0.00)
174	Greater than 50.00% of mass 95	58.83
175	5.00 - 9.00% of mass 174	4.34 (7.37)
176	95.00 - 101.00% of mass 174	57.29 (97.38)
177	5.00 - 9.00% of mass 176	3.85 (6.71)

-041.37

MA 9/15/11

Data File: \\ELABNSH05\TARGET\chem\voa6.i\091311V6.b\0913TUN1.D

Date : 13-SEP-2011 13:38

Client ID: 25ppb BFB

Instrument: voa6.i

Sample Info: SEQ-TUN1

Operator: ADM

Column phase: RTX-VRX

Column diameter: 0.25

Data File: 0913TUN1.D

Spectrum: Avg. Scans 1184-1186 (12.20), Background Scan 1181

Location of Maximum: 94.95

Number of points: 93

m/z	Y	m/z	Y	m/z	Y	m/z	Y
35.95	4035	62.00	13385	92.95	9037	136.85	319
36.95	20112	63.00	9129	93.95	24744	139.80	161
37.95	16408	63.95	906	94.95	220160	140.90	1834
39.00	5970	66.90	740	96.00	14290	141.85	176
39.90	583	67.90	28008	97.00	338	142.85	1709
41.00	458	69.00	28208	102.90	246	144.85	158
41.95	209	70.00	1971	103.80	847	145.80	202
43.05	646	71.95	1760	104.90	423	147.90	366
43.95	4840	72.95	11062	105.80	956	148.85	153
44.95	3123	73.90	40336	106.75	239	149.75	312
46.00	268	75.00	120872	109.90	169	154.90	296
46.90	3808	76.00	10003	110.90	170	156.85	317
47.90	2392	77.00	1514	111.90	195	158.95	201
49.00	14702	77.85	1017	114.85	205	160.80	202
49.95	65088	78.85	7098	115.85	752	173.90	129520
50.95	20296	79.85	1984	116.90	1419	174.90	9548
51.95	919	80.85	7472	117.80	757	175.90	126128
54.20	159	81.80	1435	118.90	1160	176.90	8468
54.90	1154	83.00	181	122.85	151	177.75	238
56.00	5067	85.85	257	127.85	760	206.95	331
56.95	8487	86.95	9116	128.85	366	281.00	299
57.95	669	87.95	8880	129.85	802		
59.90	2944	90.90	1051	130.90	212		
60.90	13696	91.95	5974	134.85	421		

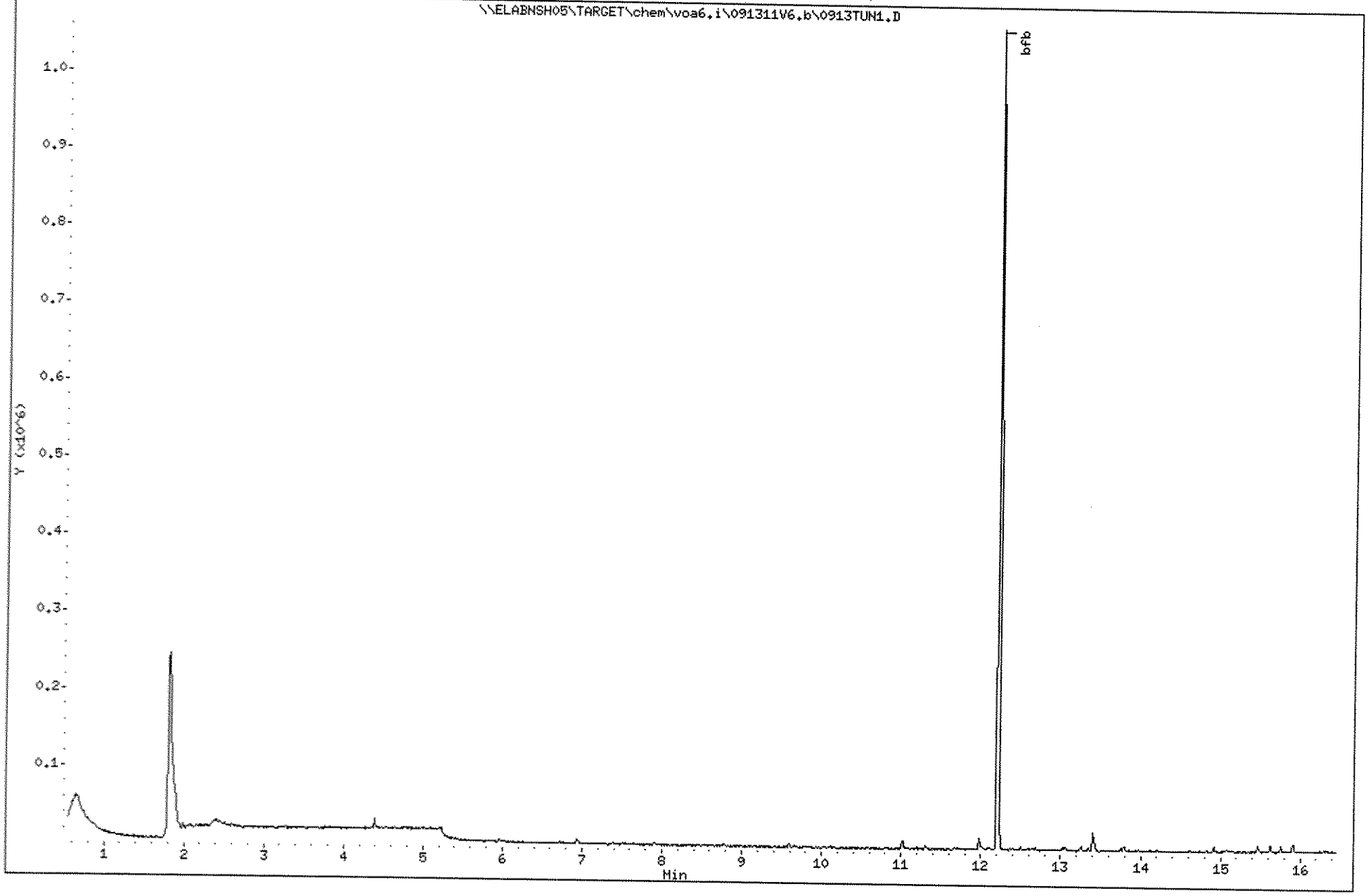
Data File: \\ELABNSH05\TARGET\chem\voa6.i\091311V6.b\0913TUN1.D
Date : 13-SEP-2011 13:38
Client ID: 25ppb BFB
Sample Info: SEQ-TUN1

Instrument: voa6.i

Operator: ADM

Column phase: RTX-VRX

Column diameter: 0.25



Data File: \\ELABNSH05\TARGET\chem\voa6.i\091311V6.b\0913TUN2.D

Date : 14-SEP-2011 05:53

Client ID: 25ppb BFB

Instrument: voa6.i

Sample Info: SEQ-TUN2

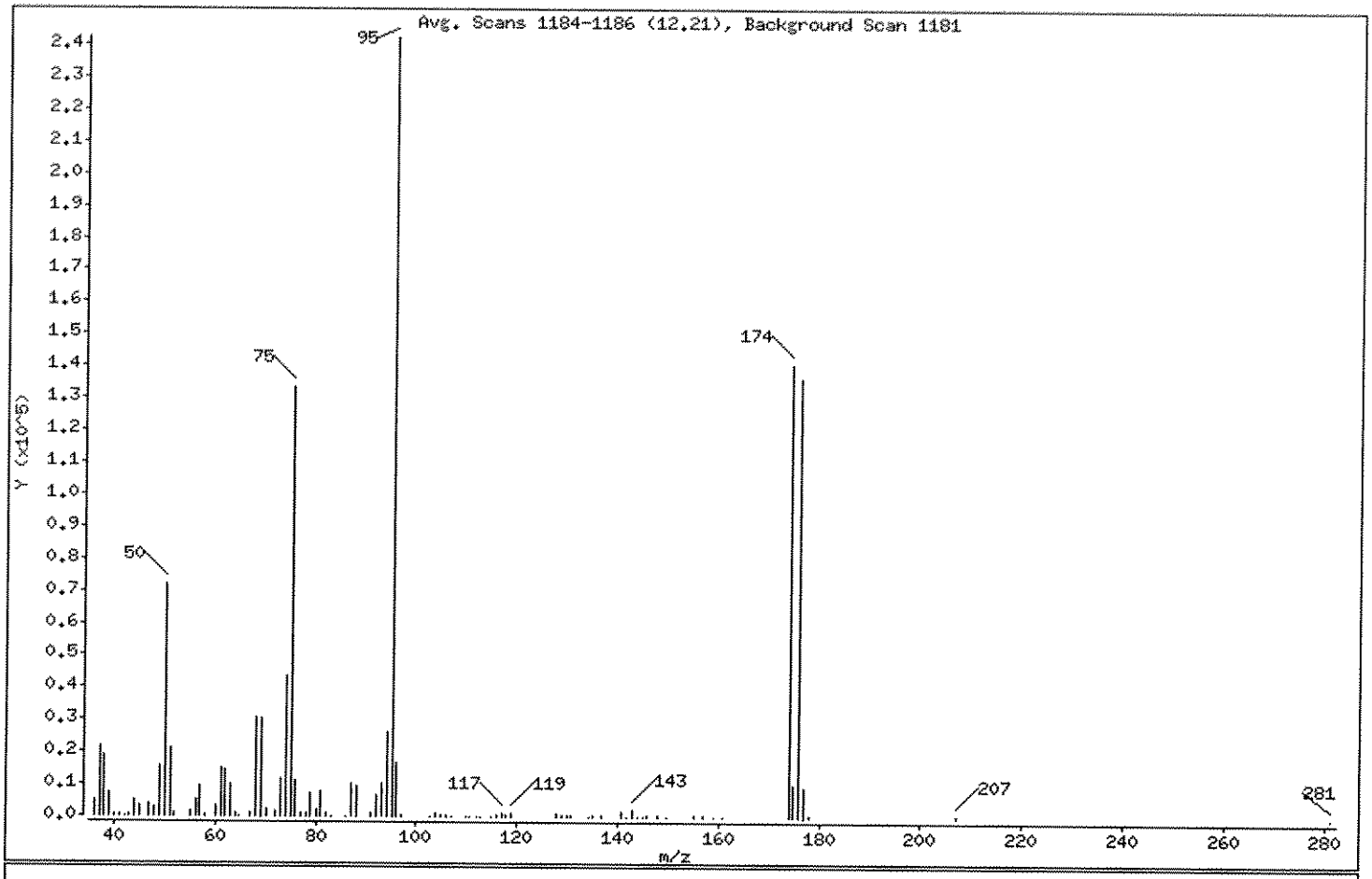
Volume Injected (uL): 1.0

Operator: ADM

Column phase: RTX-VRX

Column diameter: 0.25

1 bfb



m/e	ION ABUNDANCE CRITERIA	% RELATIVE ABUNDANCE
95	Base Peak, 100% relative abundance	100.00
50	15.00 - 40.00% of mass 95	29.64
75	30.00 - 60.00% of mass 95	55.14
96	5.00 - 9.00% of mass 95	6.88
173	Less than 2.00% of mass 174	0.00 (0.00)
174	Greater than 50.00% of mass 95	57.99
175	5.00 - 9.00% of mass 174	4.23 (7.30)
176	95.00 - 101.00% of mass 174	56.17 (96.86)
177	5.00 - 9.00% of mass 176	3.81 (6.79)

091'57'

mg 11/11

Data File: \\ELABNSH05\TARGET\chem\voa6.i\091311V6.b\0913TUN2.D

Date : 14-SEP-2011 05:53

Client ID: 25ppb BFB

Instrument: voa6.i

Sample Info: SEQ-TUN2

Volume Injected (uL): 1.0

Operator: ADM

Column phase: RTX-VRX

Column diameter: 0.25

Data File: 0913TUN2.D

Spectrum: Avg. Scans 1184-1186 (12.21), Background Scan 1181

Location of Maximum: 95.05

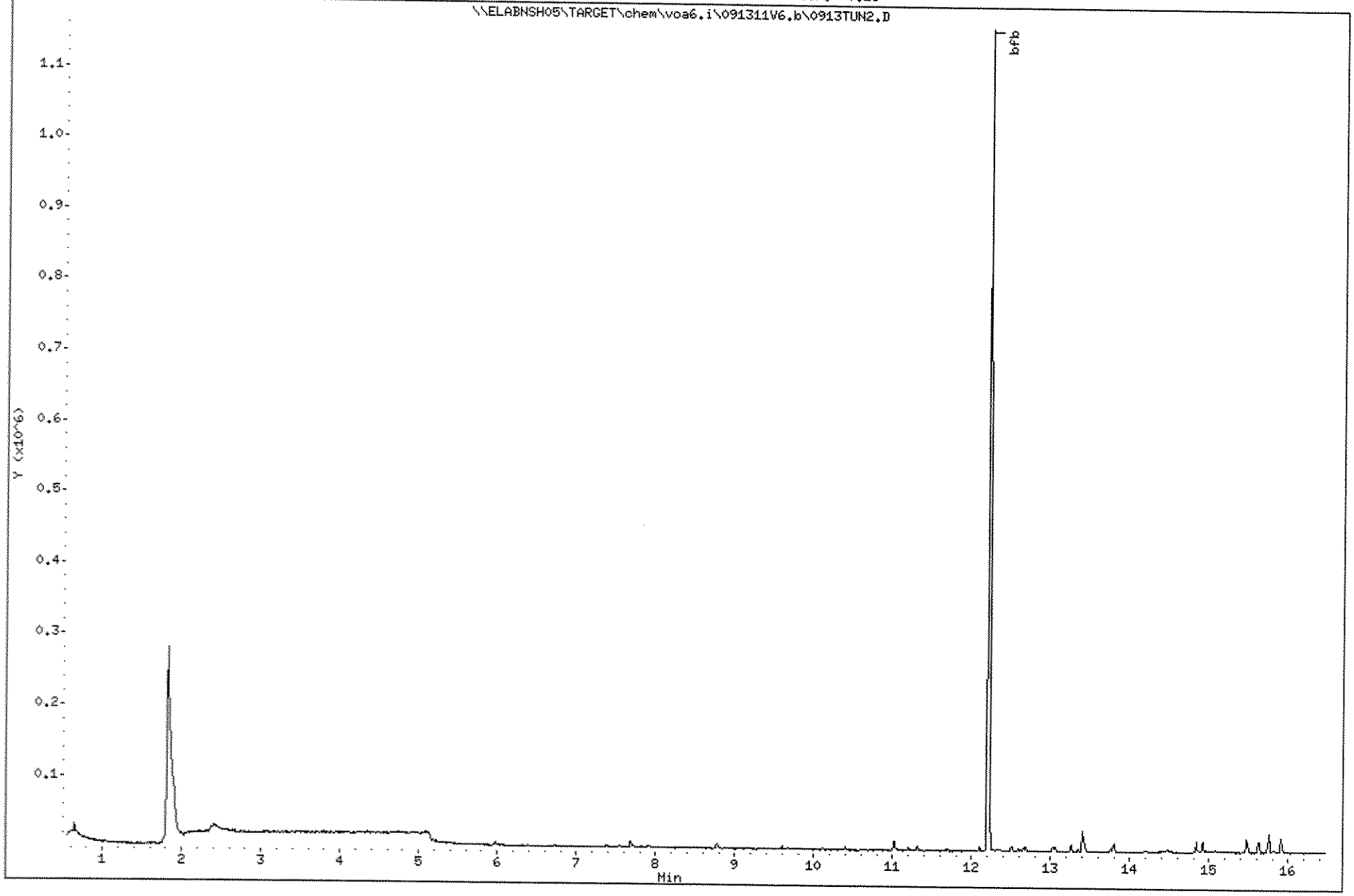
Number of points: 92

m/z	Y	m/z	Y	m/z	Y	m/z	Y
35.95	4880	63.95	991	93.95	26320	136.85	371
36.95	21712	64.85	235	95.05	242240	140.90	1853
37.95	18944	67.00	1124	96.00	16672	141.85	217
39.00	6992	68.00	30744	97.00	486	142.85	1977
40.00	422	69.00	30440	102.80	169	143.85	161
40.90	408	70.00	2228	103.90	1071	144.95	218
41.95	169	71.95	1808	105.00	363	145.90	304
42.95	490	72.95	11892	105.90	796	147.90	517
43.95	4761	74.00	43704	106.85	246	149.85	202
44.95	3611	75.00	133568	109.90	180	154.90	441
46.90	3984	76.00	10948	110.70	231	156.95	292
48.00	2818	77.00	1395	111.90	162	158.95	172
49.00	15769	78.05	865	112.80	194	160.90	185
49.95	71800	78.85	7015	114.85	279	173.90	140480
50.95	21072	79.95	2108	115.95	738	174.90	10255
51.95	927	80.95	7853	116.90	1246	175.90	136064
55.00	1403	81.90	1349	117.90	728	176.90	9241
56.00	5059	83.00	199	118.90	1141	177.85	325
56.95	9285	85.85	255	127.85	887	206.95	302
57.95	665	86.95	9899	128.95	406	281.00	270
59.90	3251	87.95	9448	129.85	830		
61.00	15111	90.90	1043	130.85	355		
62.00	14674	91.95	6588	134.10	195		
63.00	9874	92.95	9953	134.95	569		

Data File: \\ELABNSH05\TARGET\chem\voa6.i\091311V6.b\0913TUN2.D
Date : 14-SEP-2011 05:53
Client ID: 25ppb BFB
Sample Info: SEQ-TUN2
Volume Injected (uL): 1.0
Column phase: RTX-VRX

Instrument: voa6.i

Operator: ADM
Column diameter: 0.25



Data File: \\ELABNSH05\TARGET\chem\voa6.i\091311V6.b\0913CAL1.D
Report Date: 15-Sep-2011 09:37

Laboratory Name

Data file : \\ELABNSH05\TARGET\chem\voa6.i\091311V6.b\0913CAL1.D
Lab Smp Id: SEQ-CAL1 Client Smp ID: SEQ-CAL1
Inj Date : 13-SEP-2011 14:57 MS Autotune Date: 13-SEP-2011 09:32
Operator : ADM Inst ID: voa6.i
Smp Info : SEQ-CAL1;;;;;
Misc Info : ;;;;;8260.sub;
Comment :
Method : \\ELABNSH05\TARGET\chem\voa6.i\091311V6.b\VW6SUR.m
Meth Date : 15-Sep-2011 09:36 amonteiro Quant Type: ISTD
Cal Date : 13-SEP-2011 14:57 Cal File: 0913CAL1.D
Als bottle: 1 Calibration Sample, Level: 1
Dil Factor: 1.00000
Integrator: HP RTE Compound Sublist: 8260.sub
Target Version: 4.04
Processing Host: TARGET02_VM

Concentration Formula: Amt * DF * 5*Uf/Vo

Name	Value	Description
DF	1.000	Dilution Factor
Uf	1.000	unit correction factor
Vo	5.000	Volume of sample purged (mL)

C 09/15/11

µg 9/17/11

Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	AMOUNTS CAL-AMT (ug/L)	AMOUNTS ON-COL (ug/L)
* 55 Fluorobenzene	96	7.900	7.900	(1.000)	862706	30.0000	
1 Dichlorodifluoromethane	85	2.024	2.024	(0.256)	3287	0.50000	0.4570(a)
2 Chloromethane	50	2.241	2.241	(0.284)	4392	0.50000	0.5128(a)
3 Vinyl chloride	62	2.379	2.379	(0.301)	3798	0.50000	0.5140(a)
4 Bromomethane	94	2.821	2.821	(0.357)	2252	0.50000	0.4977(a)
5 Chloroethane	64	2.959	2.959	(0.375)	2311	0.50000	0.4945(aQ)
6 Trichlorofluoromethane	101	3.451	3.451	(0.437)	5355	0.50000	0.4668(a)
10 Ethyl Ether	59	3.884	3.884	(0.492)	3265	0.50000	0.5318(a)
22 Acetonitrile	41	3.845	3.845	(0.487)	9596	5.00000	7.776
14 Trichlorotrifluoroethane	101	4.308	4.308	(0.545)	2915	0.50000	0.4785(a)
7 Acrolein	56	3.648	3.648	(0.462)	3966	2.50000	2.842(a)
36 Allyl chloride	41	4.662	4.662	(0.590)	7803	0.50000	0.5812(a)
13 1,1-Dichloroethene	96	4.229	4.229	(0.535)	3185	0.50000	0.5667(aQ)
9 Acetone	43	3.766	3.766	(0.477)	5825	1.00000	1.680(a)
15 t-Butyl alcohol	59	4.396	4.396	(0.556)	2468	2.50000	2.728(Q)
16 Iodomethane	142	4.436	4.436	(0.561)	2080	0.50000	1.849(Ta)

Data File: \\ELABNSH05\TARGET\chem\voa6.i\091311V6.b\0913CAL1.D
Report Date: 15-Sep-2011 09:37

	Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	AMOUNTS CAL-AMT (ug/L)	AMOUNTS ON-COL (ug/L)
	20 Carbon disulfide	76	4.760	4.760	(0.603)	10106	0.50000	0.5286(a)
	19 Methylene chloride	84	4.721	4.721	(0.598)	4745	0.50000	0.6767(aQ)
	18 Acrylonitrile	53	4.593	4.593	(0.581)	6830	2.50000	2.408(aQ)
	24 trans-1,2-Dichloroethene	96	5.380	5.380	(0.681)	3657	0.50000	0.5074(a)
	23 MTBE	73	5.380	5.380	(0.681)	11698	0.50000	0.4822(a)
	26 1,1-Dichloroethane	63	5.754	5.754	(0.728)	7770	0.50000	0.4780(a)
	56 Propionitrile	54	5.932	5.932	(0.751)	7752	5.00000	5.264
	27 Vinyl acetate	43	5.833	5.833	(0.738)	20000	1.00000	0.8123(a)
	69 Chloroprene	53	6.010	6.010	(0.761)	8223	0.50000	0.5021(a)
	32 Di-isopropyl ether	45	6.128	6.128	(0.776)	20084	0.50000	0.5072(a)
	35 cis-1,2-Dichloroethene	96	6.463	6.463	(0.818)	3968	0.50000	0.4876(aQ)
M	47 1,2-Dichloroethene(total)	96				7625	1.00000	0.9950(a)
	33 2-Butanone	43	6.207	6.207	(0.786)	6286	1.00000	1.007(a)
	73 Methacrylonitrile	41	6.365	6.365	(0.806)	39241	5.00000	4.891
	72 Hexane	57	5.951	5.951	(0.753)	5609	0.50000	0.5682(a)
	40 Bromochloromethane	128	6.739	6.739	(0.853)	1837	0.50000	0.4545(a)
	84 Isobutyl alcohol	43	6.817	6.817	(0.863)	5497	10.0000	11.08
	42 Tetrahydrofuran	42	6.926	6.926	(0.877)	2427	0.50000	0.7188(a)
	43 tert-Amyl alcohol	59	7.093	7.093	(0.898)	2008	2.50000	2.543(Q)
	39 Chloroform	83	6.709	6.709	(0.849)	8009	0.50000	0.5337(a)
	17 Methyl acetate	43	4.583	4.583	(0.580)	3962	0.50000	0.5263(a)
$	41 Dibromofluoromethane	111	6.886	6.886	(0.872)	271665	30.0000	30.32
	44 1,1,1-Trichloroethane	97	7.270	7.270	(0.920)	5534	0.50000	0.4619(a)
	38 ETBE	59	6.591	6.591	(0.834)	16105	0.50000	0.4878(a)
	49 Cyclohexane	56	7.536	7.536	(0.954)	7450	0.50000	0.5115(a)
	51 Carbon tetrachloride	117	7.605	7.605	(0.963)	4261	0.50000	0.4299(a)
$	45 1,2-Dichloroethane-d4	102	7.378	7.378	(0.934)	56889	30.0000	30.45
	52 Benzene	78	7.634	7.634	(0.966)	14558	0.50000	0.4810(a)
	54 tert-Amyl Methyl Ether	73	7.831	7.831	(0.991)	13173	0.50000	0.4950(a)
	46 1,2-Dichloroethane	62	7.467	7.467	(0.945)	7321	0.50000	0.4830(a)
	37 2,2-Dichloropropane	77	6.561	6.561	(0.831)	6689	0.50000	0.5455(a)
	48 1,1-Dichloropropene	75	7.487	7.487	(0.948)	5622	0.50000	0.4911(a)
	58 Trichloroethene	95	8.392	8.392	(1.062)	3835	0.50000	0.4871(a)
	62 1,4-Dioxane	88	8.618	8.618	(1.091)	709	10.0000	8.646(Q)
	59 1,2-Dichloropropane	63	8.451	8.451	(1.070)	4500	0.50000	0.4938(a)
	61 Dibromomethane	93	8.559	8.559	(1.083)	2704	0.50000	0.4770(a)
	50 Methyl methacrylate	41	8.579	8.579	(1.086)	6014	0.50000	0.5130(a)
	63 Bromodichloromethane	83	8.618	8.618	(1.091)	5632	0.50000	0.4736(a)
	64 tert-Amyl Ethyl Ether	59	8.717	8.717	(1.103)	12198	0.50000	0.4655(a)
	68 2-Chloroethyl vinyl ether	63	8.983	8.983	(1.137)	5142	1.00000	0.8883(a)
	71 cis-1,3-Dichloropropene	75	9.189	9.189	(1.163)	6666	0.50000	0.4910(a)
	70 4-Methyl-2-pentanone	43	9.120	9.120	(1.154)	11829	1.00000	0.9767(a)
$	75 Toluene-d8	98	9.593	9.593	(0.871)	799832	30.0000	30.45
	77 Toluene	92	9.662	9.662	(0.877)	8550	0.50000	0.4899(a)
	76 trans-1,3-Dichloropropene	75	9.662	9.662	(0.877)	6803	0.50000	0.4782(a)
	79 Ethyl methacrylate	69	9.849	9.849	(0.894)	6117	0.50000	0.4920(a)
	78 1,1,2-Trichloroethane	83	9.819	9.819	(0.891)	2980	0.50000	0.4892(a)

Data File: \\ELABNSH05\TARGET\chem\voa6.i\091311V6.b\0913CAL1.D
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Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	AMOUNTS CAL-AMT (ug/L)	AMOUNTS ON-COL (ug/L)
83 Tetrachloroethene	166	10.400	10.400	(0.944)	3093	0.50000	0.4809(a)
80 2-Hexanone	43	9.967	9.967	(0.904)	9245	1.00000	1.060(a)
82 Dibromochloromethane	129	10.292	10.292	(0.934)	3408	0.50000	0.4223(a)
85 1,2-Dibromoethane	107	10.498	10.498	(0.953)	3805	0.50000	0.4863(a)
65 Methyl cyclohexane	83	8.766	8.766	(1.110)	5036	0.50000	0.5180(a)
* 86 Chlorobenzene-d5	82	11.020	11.020	(1.000)	399507	30.0000	
88 Chlorobenzene	112	11.049	11.049	(1.003)	9624	0.50000	0.4863(a)
89 1,1,1,2-Tetrachloroethane	131	11.099	11.099	(1.007)	3196	0.50000	0.4566(a)
87 1-Chlorohexane	91	11.020	11.020	(1.000)	6682	0.50000	0.6347(aQ)
90 Ethylbenzene	91	11.197	11.197	(1.016)	16363	0.50000	0.4781(a)
91 m,p-Xylene	91	11.305	11.305	(1.026)	25813	1.00000	0.9769(a)
M 127 Xylene(total)	91				39656	1.50000	1.473
93 o-Xylene	91	11.699	11.699	(1.062)	13843	0.50000	0.4963(a)
92 Styrene	104	11.669	11.669	(1.059)	10042	0.50000	0.4599(a)
95 Bromoform	173	11.778	11.778	(1.069)	1833	0.50000	0.4094(a)
125 cis-1,4-Dichloro-2-butene	75	11.856	11.856	(0.884)	1418	0.50000	0.4327(aQ)
97 Isopropylbenzene	105	12.093	12.093	(1.097)	13071	0.50000	0.4588(a)
$ 99 Bromofluorobenzene	95	12.201	12.201	(1.107)	357602	30.0000	30.57
96 1,1,2,2-Tetrachloroethane	83	12.024	12.024	(0.897)	4592	0.50000	0.4789(a)
81 1,3-Dichloropropane	76	10.026	10.026	(0.910)	5992	0.50000	0.4699(a)
98 1,2,3-Trichloropropane	110	12.152	12.152	(1.103)	1243	0.50000	0.4559(aQ)
124 trans-1,4-Dichloro-2-butene	53	12.162	12.162	(0.907)	2418	0.50000	0.5401(aQ)
101 n-Propylbenzene	91	12.506	12.506	(0.932)	18455	0.50000	0.4981(a)
105 1,3,5-Trimethylbenzene	105	12.683	12.683	(0.946)	12077	0.50000	0.4815(a)
108 1,2,4-Trimethylbenzene	105	13.047	13.047	(0.973)	12843	0.50000	0.4951(a)
109 sec-Butylbenzene	105	13.254	13.254	(0.988)	13630	0.50000	0.4732(a)
107 tert-Butylbenzene	119	13.018	13.018	(0.971)	10928	0.50000	0.4863(a)
110 1,3-Dichlorobenzene	146	13.343	13.343	(0.995)	6461	0.50000	0.4770(a)
* 112 1,4-Dichlorobenzene-d4	152	13.411	13.411	(1.000)	332195	30.0000	(Q)
113 1,4-Dichlorobenzene	146	13.431	13.431	(1.001)	6681	0.50000	0.4857(a)
115 n-Butylbenzene	91	13.795	13.795	(1.029)	10204	0.50000	0.4687(a)
114 1,2-Dichlorobenzene	146	13.756	13.756	(1.026)	5775	0.50000	0.4473(a)
118 1,2-Dibromo-3-chloropropane	157	14.406	14.406	(1.074)	737	0.50000	0.4643(a)
119 1,3,5-Trichlorobenzene	180	14.917	14.917	(1.112)	4005	0.50000	0.5040(a)
100 Bromobenzene	156	12.368	12.368	(0.922)	3610	0.50000	0.4776(a)
102 2-Chlorotoluene	91	12.585	12.585	(0.938)	11650	0.50000	0.4954(a)
103 4-Chlorotoluene	91	12.644	12.644	(0.943)	13233	0.50000	0.4878(a)
120 1,2,4-Trichlorobenzene	180	15.468	15.468	(1.153)	3893	0.50000	0.5306(a)
121 Naphthalene	128	15.626	15.626	(1.165)	9095	0.50000	0.5175(a)
111 p-Isopropyltoluene	119	13.392	13.392	(0.999)	11679	0.50000	0.4838(a)
122 Hexachlorobutadiene	225	15.754	15.754	(1.175)	1728	0.50000	0.5194(a)
123 1,2,3-Trichlorobenzene	180	15.911	15.911	(1.186)	3201	0.50000	0.5148(a)

QC Flag Legend

T - Target compound detected outside RT window.
a - Target compound detected but, quantitated amount Below Limit Of Quantitation(BLOQ).

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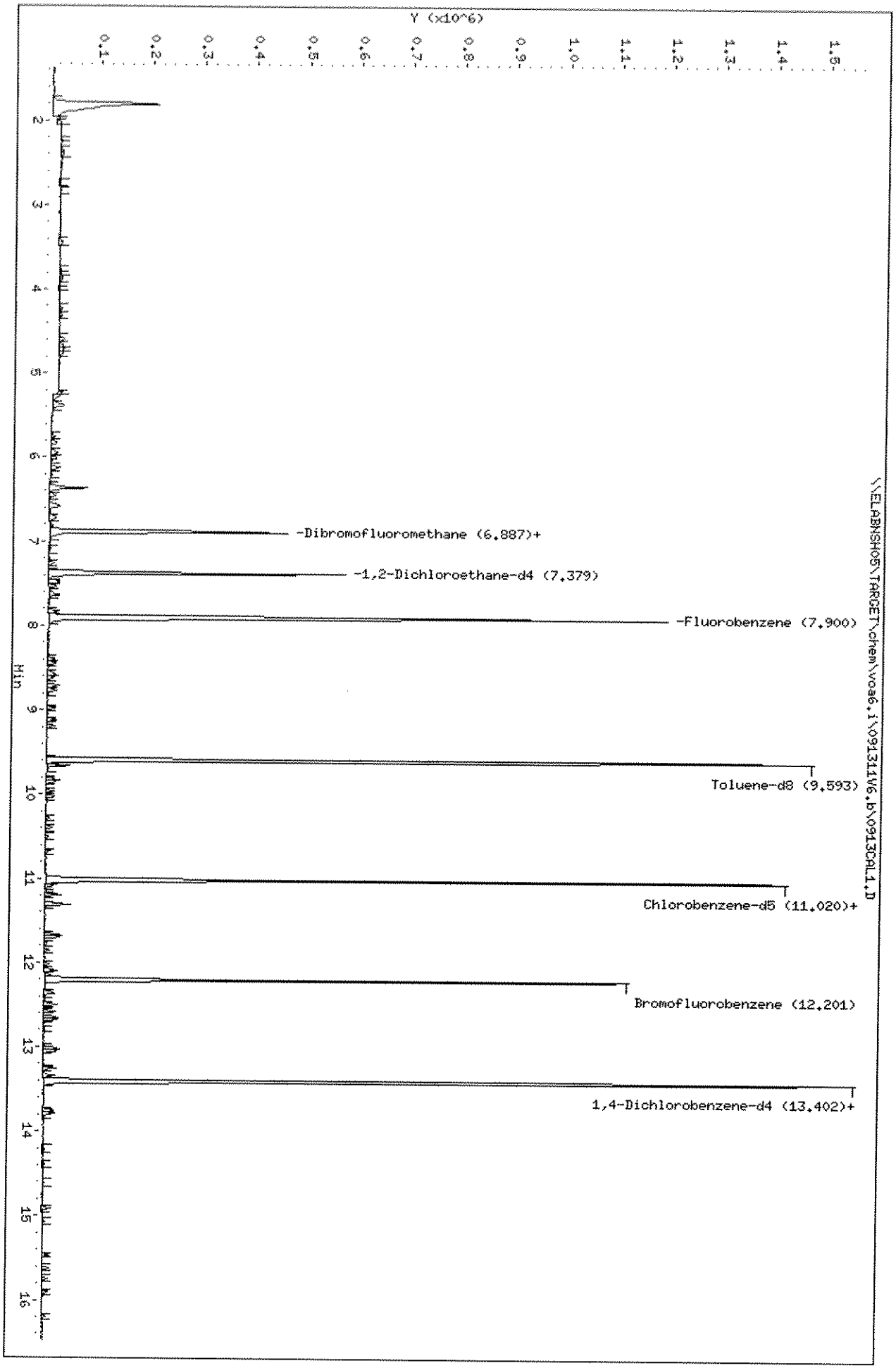
QC Flag Legend

Q - Qualifier signal failed the ratio test.

Data File: \\ELABNSH05\TARGET\chem\voa6.i\091311\6.b\0913CAL1.D
Date : 13-SEP-2011 14:57
Client ID: SEQ-CAL1
Sample Info: SEQ-CAL1;;;;;
Purge Volume: 5.0
Column phase: RTX-VRX

Instrument: voa6.i
Operator: ADM
Column diameter: 0.25



Data File: \\ELABNSH05\TARGET\chem\voa6.i\091311V6.b\0913CAL2.D
Report Date: 15-Sep-2011 09:37

Laboratory Name

Data file : \\ELABNSH05\TARGET\chem\voa6.i\091311V6.b\0913CAL2.D
Lab Smp Id: SEQ-CAL2 Client Smp ID: SEQ-CAL2
Inj Date : 13-SEP-2011 15:23 MS Autotune Date: 13-SEP-2011 09:32
Operator : ADM Inst ID: voa6.i
Smp Info : SEQ-CAL2;;;;;
Misc Info : ;;;;;8260.sub;
Comment :
Method : \\ELABNSH05\TARGET\chem\voa6.i\091311V6.b\VW6SUR.m
Meth Date : 15-Sep-2011 09:37 amonteiro Quant Type: ISTD
Cal Date : 13-SEP-2011 14:57 Cal File: 0913CAL1.D
Als bottle: 2 Calibration Sample, Level: 2
Dil Factor: 1.00000
Integrator: HP RTE Compound Sublist: 8260.sub
Target Version: 4.04
Processing Host: TARGET02_VM

Concentration Formula: Amt * DF * 5*Uf/Vo

Name	Value	Description
DF	1.000	Dilution Factor
Uf	1.000	unit correction factor
Vo	5.000	Volume of sample purged (mL)

9/15/11 ma 9/17/11

Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	AMOUNTS CAL-AMT (ug/L)	AMOUNTS ON-COL (ug/L)
* 55 Fluorobenzene	96	7.906	7.906	(1.000)	878416	30.0000	
1 Dichlorodifluoromethane	85	2.030	2.030	(0.257)	6507	1.00000	0.8886(a)
2 Chloromethane	50	2.247	2.247	(0.284)	8116	1.00000	0.9307(a)
3 Vinyl chloride	62	2.384	2.384	(0.302)	7154	1.00000	0.9508(a)
4 Bromomethane	94	2.827	2.827	(0.358)	3934	1.00000	0.8540(a)
5 Chloroethane	64	2.955	2.955	(0.374)	4661	1.00000	0.9794(a)
6 Trichlorofluoromethane	101	3.457	3.457	(0.437)	11070	1.00000	0.9476(a)
10 Ethyl Ether	59	3.890	3.890	(0.492)	6178	1.00000	0.9882(a)
22 Acetonitrile	41	3.841	3.841	(0.486)	11953	10.0000	9.512
14 Trichlorotrifluoroethane	101	4.313	4.313	(0.546)	6124	1.00000	0.9872(a)
7 Acrolein	56	3.654	3.654	(0.462)	6615	5.00000	4.656(a)
36 Allyl chloride	41	4.668	4.668	(0.590)	14022	1.00000	1.026
13 1,1-Dichloroethene	96	4.235	4.235	(0.536)	5569	1.00000	0.9732(aQ)
9 Acetone	43	3.772	3.772	(0.477)	8533	2.00000	2.417(a)
15 t-Butyl alcohol	59	4.402	4.402	(0.557)	4743	5.00000	5.149
16 Iodomethane	142	4.431	4.431	(0.561)	5282	1.00000	2.188(a)

Data File: \\ELABNSH05\TARGET\chem\voa6.i\091311V6.b\0913CAL2.D
Report Date: 15-Sep-2011 09:37

	Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	AMOUNTS CAL-AMT (ug/L)	AMOUNTS ON-COL (ug/L)
	20 Carbon disulfide	76	4.766	4.766	(0.603)	18375	1.00000	0.9440(a)
	19 Methylene chloride	84	4.727	4.727	(0.598)	7752	1.00000	1.086(a)
	18 Acrylonitrile	53	4.609	4.609	(0.583)	13527	5.00000	4.684(aQ)
	24 trans-1,2-Dichloroethene	96	5.386	5.386	(0.681)	7524	1.00000	1.025
	23 MTBE	73	5.386	5.386	(0.681)	23827	1.00000	0.9646(a)
	26 1,1-Dichloroethane	63	5.760	5.760	(0.729)	16011	1.00000	0.9674(a)
	56 Propionitrile	54	5.927	5.927	(0.750)	15019	10.0000	10.02
	27 Vinyl acetate	43	5.829	5.829	(0.737)	44218	2.00000	1.764(a)
	69 Chloroprene	53	6.016	6.016	(0.761)	15260	1.00000	0.9152(a)
	32 Di-isopropyl ether	45	6.134	6.134	(0.776)	37843	1.00000	0.9386(a)
	35 cis-1,2-Dichloroethene	96	6.459	6.459	(0.817)	8226	1.00000	0.9928(aQ)
M	47 1,2-Dichloroethene(total)	96				15750	2.00000	2.018
	33 2-Butanone	43	6.213	6.213	(0.786)	12403	2.00000	1.951(a)
	73 Methacrylonitrile	41	6.370	6.370	(0.806)	82488	10.0000	10.10
	72 Hexane	57	5.957	5.957	(0.754)	9459	1.00000	0.9411(a)
	40 Bromochloromethane	128	6.735	6.735	(0.852)	4175	1.00000	1.014(a)
	84 Isobutyl alcohol	43	6.823	6.823	(0.863)	9768	20.0000	19.34
	42 Tetrahydrofuran	42	6.931	6.931	(0.877)	4121	1.00000	1.199(a)
	43 tert-Amyl alcohol	59	7.099	7.099	(0.898)	3943	5.00000	4.905
	39 Chloroform	83	6.715	6.715	(0.849)	15361	1.00000	1.005
	17 Methyl acetate	43	4.589	4.589	(0.580)	8807	1.00000	1.149
$	41 Dibromofluoromethane	111	6.882	6.882	(0.871)	318260	35.0000	34.89
	44 1,1,1-Trichloroethane	97	7.266	7.266	(0.919)	11724	1.00000	0.9611(a)
	38 ETBE	59	6.597	6.597	(0.834)	31827	1.00000	0.9468(a)
	49 Cyclohexane	56	7.542	7.542	(0.954)	14430	1.00000	0.9731(a)
	51 Carbon tetrachloride	117	7.610	7.610	(0.963)	9123	1.00000	0.9040(a)
$	45 1,2-Dichloroethane-d4	102	7.384	7.384	(0.934)	66832	35.0000	35.14
	52 Benzene	78	7.640	7.640	(0.966)	29847	1.00000	0.9686(a)
	54 tert-Amyl Methyl Ether	73	7.837	7.837	(0.991)	25775	1.00000	0.9513(a)
	46 1,2-Dichloroethane	62	7.473	7.473	(0.945)	15030	1.00000	0.9739(a)
	37 2,2-Dichloropropane	77	6.567	6.567	(0.831)	12362	1.00000	0.9901(a)
	48 1,1-Dichloropropene	75	7.492	7.492	(0.948)	11238	1.00000	0.9641(aQ)
	58 Trichloroethene	95	8.398	8.398	(1.062)	7742	1.00000	0.9657(a)
	62 1,4-Dioxane	88	8.614	8.614	(1.090)	1586	20.0000	18.99(Q)
	59 1,2-Dichloropropane	63	8.447	8.447	(1.068)	8552	1.00000	0.9217(a)
	61 Dibromomethane	93	8.555	8.555	(1.082)	5733	1.00000	0.9933(a)
	50 Methyl methacrylate	41	8.585	8.585	(1.086)	11373	1.00000	0.9528(a)
	63 Bromodichloromethane	83	8.624	8.624	(1.091)	11516	1.00000	0.9510(a)
	64 tert-Amyl Ethyl Ether	59	8.713	8.713	(1.102)	25640	1.00000	0.9610(a)
	68 2-Chloroethyl vinyl ether	63	8.978	8.978	(1.136)	11017	2.00000	1.869(a)
	71 cis-1,3-Dichloropropene	75	9.195	9.195	(1.163)	12670	1.00000	0.9166(a)
	70 4-Methyl-2-pentanone	43	9.116	9.116	(1.153)	23976	2.00000	1.944(a)
$	75 Toluene-d8	98	9.589	9.589	(0.870)	936031	35.0000	34.72
	77 Toluene	92	9.667	9.667	(0.878)	17752	1.00000	0.9912(a)
	76 trans-1,3-Dichloropropene	75	9.667	9.667	(0.878)	13601	1.00000	0.9315(a)
	79 Ethyl methacrylate	69	9.854	9.854	(0.895)	12480	1.00000	0.9781(a)
	78 1,1,2-Trichloroethane	83	9.815	9.815	(0.891)	6195	1.00000	0.9909(a)

Data File: \\ELABNSH05\TARGET\chem\voa6.i\091311V6.b\0913CAL2.D
Report Date: 15-Sep-2011 09:37

Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	AMOUNTS CAL-AMT (ug/L)	AMOUNTS ON-COL (ug/L)
83 Tetrachloroethene	166	10.396	10.396	(0.944)	6233	1.00000	0.9443(a)
80 2-Hexanone	43	9.963	9.963	(0.904)	16957	2.00000	1.894(a)
82 Dibromochloromethane	129	10.287	10.287	(0.934)	7387	1.00000	0.8919(a)
85 1,2-Dibromoethane	107	10.504	10.504	(0.954)	7507	1.00000	0.9349(a)
65 Methyl cyclohexane	83	8.772	8.772	(1.110)	9335	1.00000	0.9430(a)
* 86 Chlorobenzene-d5	82	11.016	11.016	(1.000)	410011	30.0000	
88 Chlorobenzene	112	11.055	11.055	(1.004)	19490	1.00000	0.9596(a)
89 1,1,1,2-Tetrachloroethane	131	11.095	11.095	(1.007)	6836	1.00000	0.9515(a)
87 1-Chlorohexane	91	11.016	11.016	(1.000)	12211	1.00000	1.130(Q)
90 Ethylbenzene	91	11.193	11.193	(1.016)	32534	1.00000	0.9262(a)
91 m,p-Xylene	91	11.311	11.311	(1.027)	52174	2.00000	1.924
M 127 Xylene(total)	91				79928	3.00000	2.893
93 o-Xylene	91	11.695	11.695	(1.062)	27754	1.00000	0.9695(a)
92 Styrene	104	11.665	11.665	(1.059)	21041	1.00000	0.9389(a)
95 Bromoform	173	11.774	11.774	(1.069)	4121	1.00000	0.8968(a)
125 cis-1,4-Dichloro-2-butene	75	11.852	11.852	(0.884)	3003	1.00000	0.9155(a)
97 Isopropylbenzene	105	12.098	12.098	(1.098)	28157	1.00000	0.9630(a)
$ 99 Bromofluorobenzene	95	12.207	12.207	(1.108)	416897	35.0000	34.72
96 1,1,2,2-Tetrachloroethane	83	12.020	12.020	(0.896)	9517	1.00000	0.9917(a)
81 1,3-Dichloropropane	76	10.032	10.032	(0.911)	12516	1.00000	0.9563(a)
98 1,2,3-Trichloropropane	110	12.148	12.148	(1.103)	2849	1.00000	1.018
124 trans-1,4-Dichloro-2-butene	53	12.167	12.167	(0.908)	4341	1.00000	0.9688(a)
101 n-Propylbenzene	91	12.502	12.502	(0.932)	35935	1.00000	0.9691(a)
105 1,3,5-Trimethylbenzene	105	12.679	12.679	(0.946)	23488	1.00000	0.9356(a)
108 1,2,4-Trimethylbenzene	105	13.053	13.053	(0.974)	25343	1.00000	0.9762(a)
109 sec-Butylbenzene	105	13.250	13.250	(0.988)	27850	1.00000	0.9661(a)
107 tert-Butylbenzene	119	13.024	13.024	(0.971)	20930	1.00000	0.9307(a)
110 1,3-Dichlorobenzene	146	13.348	13.348	(0.996)	13344	1.00000	0.9844(a)
* 112 1,4-Dichlorobenzene-d4	152	13.407	13.407	(1.000)	332472	30.0000	(Q)
113 1,4-Dichlorobenzene	146	13.437	13.437	(1.002)	13508	1.00000	0.9811(a)
115 n-Butylbenzene	91	13.791	13.791	(1.029)	22947	1.00000	1.053
114 1,2-Dichlorobenzene	146	13.752	13.752	(1.026)	12761	1.00000	0.9876(a)
118 1,2-Dibromo-3-chloropropane	157	14.401	14.401	(1.074)	1498	1.00000	0.9429(a)
119 1,3,5-Trichlorobenzene	180	14.913	14.913	(1.112)	7806	1.00000	0.9815(a)
100 Bromobenzene	156	12.364	12.364	(0.922)	7429	1.00000	0.9820(a)
102 2-Chlorotoluene	91	12.591	12.591	(0.939)	23135	1.00000	0.9829(a)
103 4-Chlorotoluene	91	12.650	12.650	(0.943)	26716	1.00000	0.9841(a)
120 1,2,4-Trichlorobenzene	180	15.474	15.474	(1.154)	7369	1.00000	1.004
121 Naphthalene	128	15.622	15.622	(1.165)	17020	1.00000	0.9677(a)
111 p-Isopropyltoluene	119	13.388	13.388	(0.999)	23429	1.00000	0.9698(a)
122 Hexachlorobutadiene	225	15.750	15.750	(1.175)	3152	1.00000	0.9466(a)
123 1,2,3-Trichlorobenzene	180	15.907	15.907	(1.186)	6189	1.00000	0.9946(a)

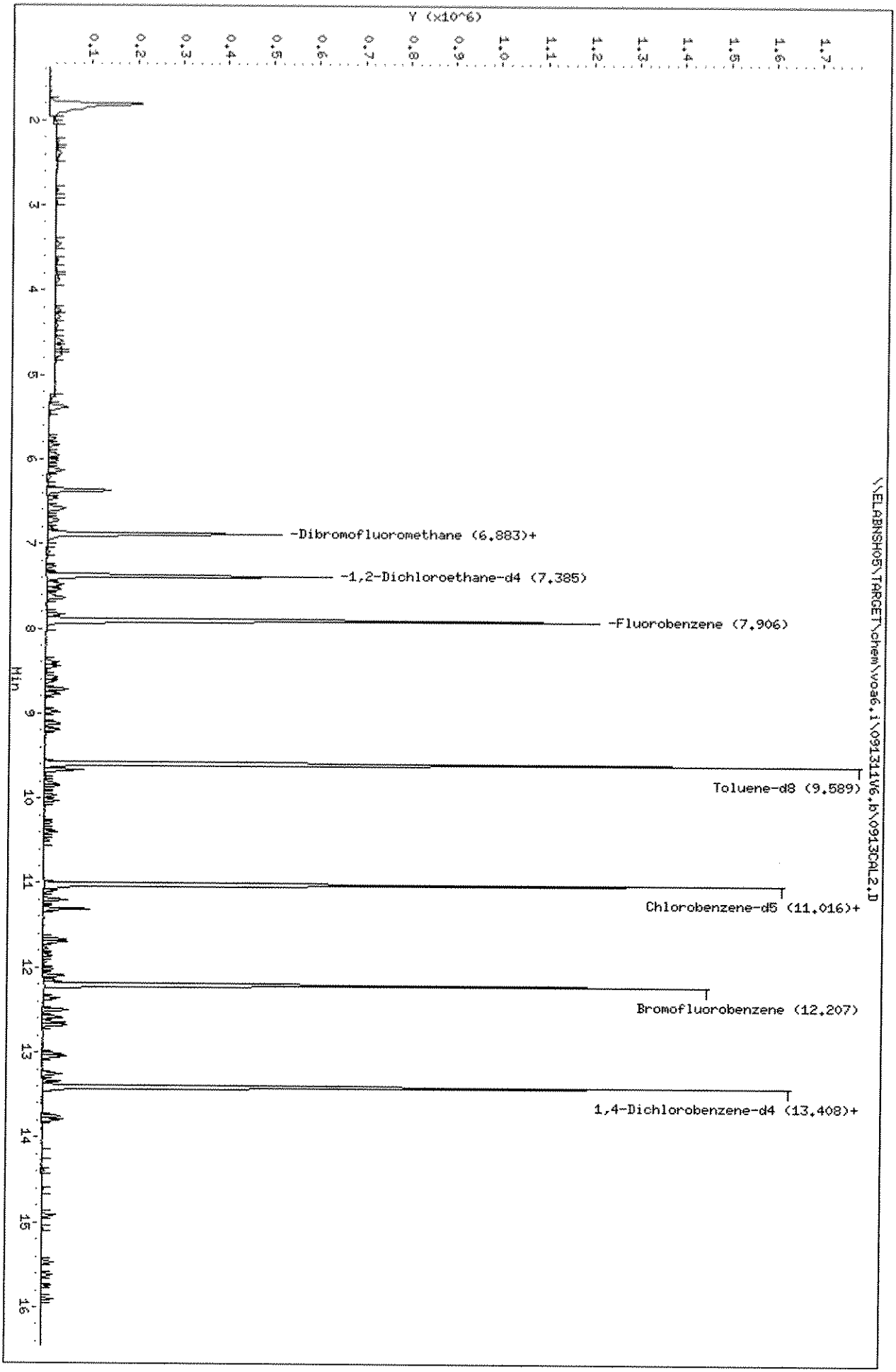
QC Flag Legend

a - Target compound detected but, quantitated amount Below Limit Of Quantitation(BLOQ).

Data File: \\ELABNSH05\TARGET\chem\voa6.i\091311V6.b\0913CAL2.D
Report Date: 15-Sep-2011 09:37

QC Flag Legend

Q - Qualifier signal failed the ratio test.


Data File: \\ELABNSH05\TARGET\chem\voa6.i\091311V6.b\0913CAL2.D
Date : 13-SEP-2011 15:23
Client ID: SEQ-CAL2
Sample Info: SEQ-CAL2;;;;;
Purge Volume: 5.0
Column phase: RTX-VRX
Instrument: voa6.i
Operator: ADM
Column diameter: 0.25
\\ELABNSH05\TARGET\chem\voa6.i\091311V6.b\0913CAL2.D
Y (x10^6)
Min
-Dibromofluoromethane (6.883)+
-1,2-Dichloroethane-d4 (7.385)
-Fluorobenzene (7.906)
Toluene-d8 (9.589)
Chlorobenzene-d5 (11.016)+
Bromofluorobenzene (12.207)
1,4-Dichlorobenzene-d4 (13.408)+

Data File: \\ELABNSH05\TARGET\chem\voa6.i\091311V6.b\0913CAL3.D
Report Date: 15-Sep-2011 09:37

Laboratory Name

Data file : \\ELABNSH05\TARGET\chem\voa6.i\091311V6.b\0913CAL3.D
Lab Smp Id: SEQ-CAL3 Client Smp ID: SEQ-CAL3
Inj Date : 13-SEP-2011 15:50 MS Autotune Date: 13-SEP-2011 09:32
Operator : ADM Inst ID: voa6.i
Smp Info : SEQ-CAL3;;;;;
Misc Info : ;;;;;8260.sub;
Comment :
Method : \\ELABNSH05\TARGET\chem\voa6.i\091311V6.b\VW6SUR.m
Meth Date : 15-Sep-2011 09:37 amonteiro Quant Type: ISTD
Cal Date : 13-SEP-2011 14:57 Cal File: 0913CAL1.D
Als bottle: 3 Calibration Sample, Level: 3
Dil Factor: 1.00000
Integrator: HP RTE Compound Sublist: 8260.sub
Target Version: 4.04
Processing Host: TARGET02_VM

Concentration Formula: Amt * DF * 5*Uf/Vo

Name	Value	Description
DF	1.000	Dilution Factor
Uf	1.000	unit correction factor
Vo	5.000	Volume of sample purged (mL)

MA 11/14

09/11/11

Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	AMOUNTS CAL-AMT (ug/L)	AMOUNTS ON-COL (ug/L)
* 55 Fluorobenzene	96	7.900	7.900	(1.000)	870290	30.0000	
1 Dichlorodifluoromethane	85	2.024	2.024	(0.256)	13062	2.00000	1.800(a)
2 Chloromethane	50	2.250	2.250	(0.285)	16517	2.00000	1.912(a)
3 Vinyl chloride	62	2.388	2.388	(0.302)	14415	2.00000	1.934(a)
4 Bromomethane	94	2.831	2.831	(0.358)	7902	2.00000	1.731(a)
5 Chloroethane	64	2.959	2.959	(0.375)	9051	2.00000	1.920(a)
6 Trichlorofluoromethane	101	3.451	3.451	(0.437)	22006	2.00000	1.901(a)
10 Ethyl Ether	59	3.894	3.894	(0.493)	12258	2.00000	1.979
22 Acetonitrile	41	3.845	3.845	(0.487)	22722	20.0000	18.25
14 Trichlorotrifluoroethane	101	4.317	4.317	(0.547)	11459	2.00000	1.864
7 Acrolein	56	3.658	3.658	(0.463)	13497	10.0000	9.588
36 Allyl chloride	41	4.671	4.671	(0.591)	25367	2.00000	1.873
13 1,1-Dichloroethene	96	4.238	4.238	(0.537)	11237	2.00000	1.982(Q)
9 Acetone	43	3.776	3.776	(0.478)	15066	4.00000	4.308(a)
15 t-Butyl alcohol	59	4.406	4.406	(0.558)	9540	10.0000	10.45(Q)
16 Iodomethane	142	4.435	4.435	(0.561)	11170	2.00000	2.830(a)

Data File: \\ELABNSH05\TARGET\chem\voa6.i\091311V6.b\0913CAL3.D
Report Date: 15-Sep-2011 09:37

	Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	AMOUNTS CAL-AMT (ug/L)	AMOUNTS ON-COL (ug/L)
	20 Carbon disulfide	76	4.770	4.770	(0.604)	35091	2.00000	1.820
	19 Methylene chloride	84	4.721	4.721	(0.598)	14138	2.00000	1.999(a)
	18 Acrylonitrile	53	4.602	4.602	(0.583)	27849	10.0000	9.733(Q)
	24 trans-1,2-Dichloroethene	96	5.380	5.380	(0.681)	14545	2.00000	2.000
	23 MTBE	73	5.390	5.390	(0.682)	49016	2.00000	2.003
	26 1,1-Dichloroethane	63	5.754	5.754	(0.728)	31970	2.00000	1.950
	56 Propionitrile	54	5.931	5.931	(0.751)	29625	20.0000	19.94
	27 Vinyl acetate	43	5.833	5.833	(0.738)	94457	4.00000	3.803(a)
	69 Chloroprene	53	6.020	6.020	(0.762)	32387	2.00000	1.960
	32 Di-isopropyl ether	45	6.128	6.128	(0.776)	78201	2.00000	1.958
	35 cis-1,2-Dichloroethene	96	6.463	6.463	(0.818)	15995	2.00000	1.948(Q)
M	47 1,2-Dichloroethene(total)	96				30540	4.00000	3.949
	33 2-Butanone	43	6.207	6.207	(0.786)	24821	4.00000	3.941(a)
	73 Methacrylonitrile	41	6.374	6.374	(0.807)	165590	20.0000	20.46
	72 Hexane	57	5.961	5.961	(0.755)	18315	2.00000	1.839
	40 Bromochloromethane	128	6.738	6.738	(0.853)	7981	2.00000	1.957(a)
	84 Isobutyl alcohol	43	6.817	6.817	(0.863)	19932	40.0000	39.83
	42 Tetrahydrofuran	42	6.935	6.935	(0.878)	7619	2.00000	2.237
	43 tert-Amyl alcohol	59	7.102	7.102	(0.899)	7849	10.0000	9.855
	39 Chloroform	83	6.719	6.719	(0.851)	30143	2.00000	1.991
	17 Methyl acetate	43	4.593	4.593	(0.581)	15876	2.00000	2.091
$	41 Dibromofluoromethane	111	6.886	6.886	(0.872)	361348	40.0000	39.98
	44 1,1,1-Trichloroethane	97	7.270	7.270	(0.920)	23310	2.00000	1.929
	38 ETBE	59	6.591	6.591	(0.834)	66431	2.00000	1.994
	49 Cyclohexane	56	7.535	7.535	(0.954)	28932	2.00000	1.969(a)
	51 Carbon tetrachloride	117	7.604	7.604	(0.963)	18651	2.00000	1.865
$	45 1,2-Dichloroethane-d4	102	7.378	7.378	(0.934)	76858	40.0000	40.78
	52 Benzene	78	7.644	7.644	(0.968)	58730	2.00000	1.924
	54 tert-Amyl Methyl Ether	73	7.831	7.831	(0.991)	51677	2.00000	1.925
	46 1,2-Dichloroethane	62	7.476	7.476	(0.946)	31048	2.00000	2.031
	37 2,2-Dichloropropane	77	6.571	6.571	(0.832)	25119	2.00000	2.030
	48 1,1-Dichloropropene	75	7.486	7.486	(0.948)	23070	2.00000	1.998
	58 Trichloroethene	95	8.401	8.401	(1.064)	15159	2.00000	1.908
	62 1,4-Dioxane	88	8.608	8.608	(1.090)	3000	40.0000	36.26(Q)
	59 1,2-Dichloropropane	63	8.451	8.451	(1.070)	18274	2.00000	1.988
	61 Dibromomethane	93	8.559	8.559	(1.083)	11278	2.00000	1.972
	50 Methyl methacrylate	41	8.579	8.579	(1.086)	24099	2.00000	2.038
	63 Bromodichloromethane	83	8.618	8.618	(1.091)	24051	2.00000	2.005
	64 tert-Amyl Ethyl Ether	59	8.716	8.716	(1.103)	51981	2.00000	1.966
	68 2-Chloroethyl vinyl ether	63	8.982	8.982	(1.137)	21872	4.00000	3.745(a)
	71 cis-1,3-Dichloropropene	75	9.189	9.189	(1.163)	27069	2.00000	1.976
	70 4-Methyl-2-pentanone	43	9.120	9.120	(1.154)	48706	4.00000	3.986(a)
$	75 Toluene-d8	98	9.592	9.592	(0.870)	1057703	40.0000	39.77
	77 Toluene	92	9.661	9.661	(0.877)	34340	2.00000	1.944
	76 trans-1,3-Dichloropropene	75	9.661	9.661	(0.877)	28411	2.00000	1.972
	79 Ethyl methacrylate	69	9.848	9.848	(0.894)	24180	2.00000	1.921
	78 1,1,2-Trichloroethane	83	9.819	9.819	(0.891)	12332	2.00000	2.000

Data File: \\ELABNSH05\TARGET\chem\voa6.i\091311V6.b\0913CAL3.D
Report Date: 15-Sep-2011 09:37

Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	AMOUNTS CAL-AMT (ug/L)	AMOUNTS ON-COL (ug/L)
83 Tetrachloroethene	166	10.399	10.399	(0.944)	12543	2.00000	1.926
80 2-Hexanone	43	9.966	9.966	(0.904)	34613	4.00000	3.919(a)
82 Dibromochloromethane	129	10.291	10.291	(0.934)	15286	2.00000	1.871
85 1,2-Dibromoethane	107	10.498	10.498	(0.953)	15426	2.00000	1.947
65 Methyl cyclohexane	83	8.775	8.775	(1.111)	18511	2.00000	1.887
* 86 Chlorobenzene-d5	82	11.019	11.019	(1.000)	404462	30.0000	
88 Chlorobenzene	112	11.049	11.049	(1.003)	38537	2.00000	1.923
89 1,1,1,2-Tetrachloroethane	131	11.098	11.098	(1.007)	13855	2.00000	1.955
87 1-Chlorohexane	91	11.019	11.019	(1.000)	21006	2.00000	1.971(Q)
90 Ethylbenzene	91	11.197	11.197	(1.016)	66760	2.00000	1.927
91 m,p-Xylene	91	11.305	11.305	(1.026)	103303	4.00000	3.862
M 127 Xylene(total)	91				158601	6.00000	5.820
93 o-Xylene	91	11.699	11.699	(1.062)	55298	2.00000	1.958
92 Styrene	104	11.669	11.669	(1.059)	42499	2.00000	1.922
95 Bromoform	173	11.777	11.777	(1.069)	8580	2.00000	1.893
125 cis-1,4-Dichloro-2-butene	75	11.856	11.856	(0.884)	6373	2.00000	1.963(a)
97 Isopropylbenzene	105	12.092	12.092	(1.097)	54719	2.00000	1.897
$ 99 Bromofluorobenzene	95	12.201	12.201	(1.107)	474796	40.0000	40.09
96 1,1,2,2-Tetrachloroethane	83	12.023	12.023	(0.897)	19567	2.00000	2.060
81 1,3-Dichloropropane	76	10.025	10.025	(0.910)	25898	2.00000	2.006
98 1,2,3-Trichloropropane	110	12.151	12.151	(1.103)	5264	2.00000	1.907
124 trans-1,4-Dichloro-2-butene	53	12.161	12.161	(0.907)	8927	2.00000	2.013(a)
101 n-Propylbenzene	91	12.506	12.506	(0.932)	72203	2.00000	1.968
105 1,3,5-Trimethylbenzene	105	12.683	12.683	(0.946)	48774	2.00000	1.963
108 1,2,4-Trimethylbenzene	105	13.057	13.057	(0.974)	50720	2.00000	1.974
109 sec-Butylbenzene	105	13.254	13.254	(0.988)	54680	2.00000	1.917
107 tert-Butylbenzene	119	13.017	13.017	(0.971)	43913	2.00000	1.973
110 1,3-Dichlorobenzene	146	13.342	13.342	(0.995)	26361	2.00000	1.965
* 112 1,4-Dichlorobenzene-d4	152	13.411	13.411	(1.000)	329018	30.0000	(Q)
113 1,4-Dichlorobenzene	146	13.431	13.431	(1.001)	27419	2.00000	2.012
115 n-Butylbenzene	91	13.795	13.795	(1.029)	41117	2.00000	1.907
114 1,2-Dichlorobenzene	146	13.756	13.756	(1.026)	25667	2.00000	2.007
118 1,2-Dibromo-3-chloropropane	157	14.395	14.395	(1.073)	3106	2.00000	1.976(a)
119 1,3,5-Trichlorobenzene	180	14.917	14.917	(1.112)	15293	2.00000	1.943
100 Bromobenzene	156	12.368	12.368	(0.922)	14994	2.00000	2.003
102 2-Chlorotoluene	91	12.584	12.584	(0.938)	46226	2.00000	1.984
103 4-Chlorotoluene	91	12.653	12.653	(0.943)	52275	2.00000	1.946
120 1,2,4-Trichlorobenzene	180	15.468	15.468	(1.153)	14367	2.00000	1.977
121 Naphthalene	128	15.626	15.626	(1.165)	34656	2.00000	1.991
111 p-Isopropyltoluene	119	13.391	13.391	(0.999)	46474	2.00000	1.944
122 Hexachlorobutadiene	225	15.753	15.753	(1.175)	6178	2.00000	1.875
123 1,2,3-Trichlorobenzene	180	15.911	15.911	(1.186)	11760	2.00000	1.910

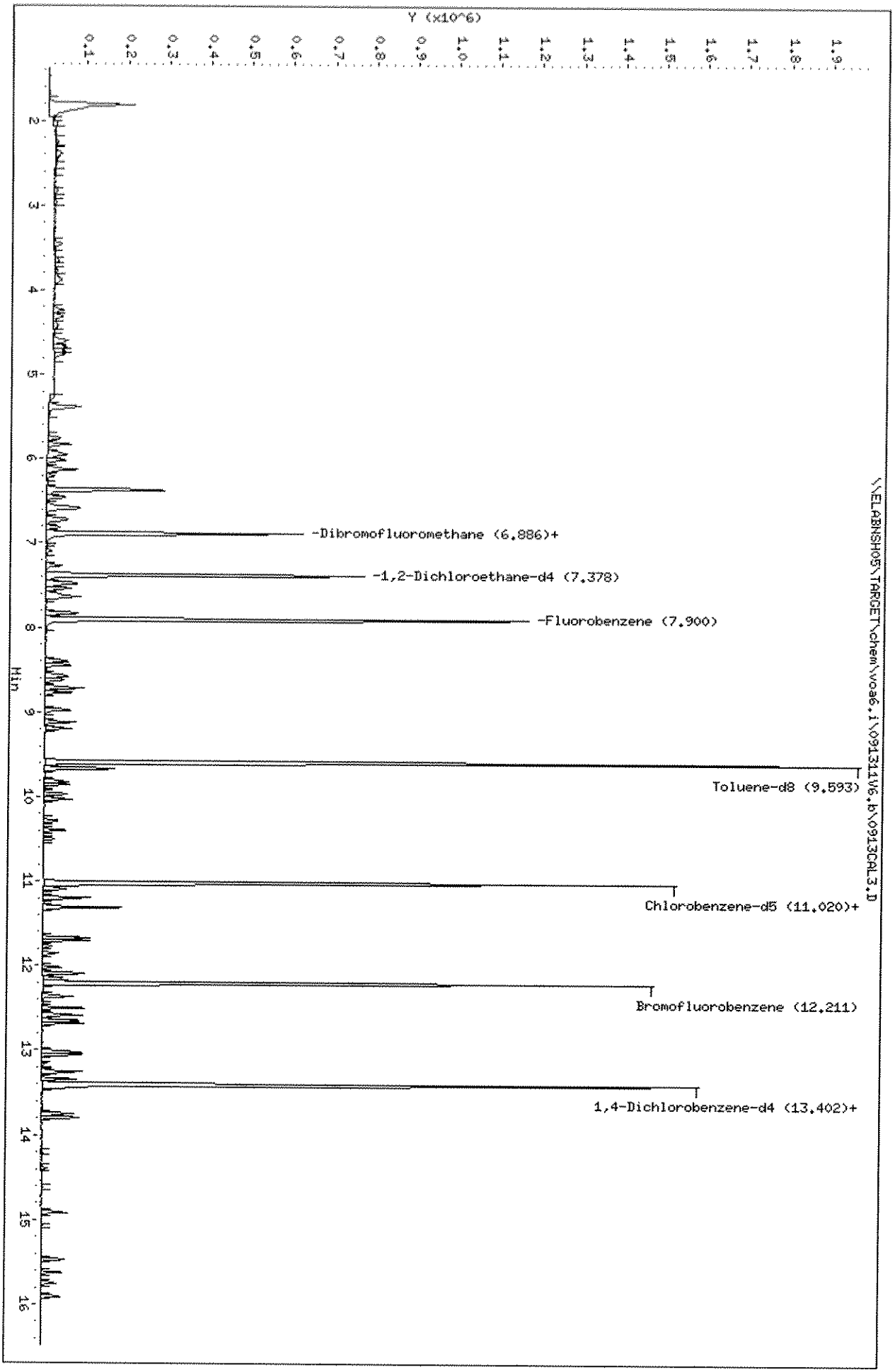
QC Flag Legend

a - Target compound detected but, quantitated amount Below Limit Of Quantitation(BLOQ).

Data File: \\ELABNSH05\TARGET\chem\voa6.i\091311V6.b\0913CAL3.D
Report Date: 15-Sep-2011 09:37

QC Flag Legend

Q - Qualifier signal failed the ratio test.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Operator: ADM
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Min
\\ELABNSH05\TARGET\chem\vaa6.i\091311V6.b\0913CAL3.D
-Dibromofluoromethane (6.886)+
-1,2-Dichloroethane-d4 (7.378)
-Fluorobenzene (7.900)
Toluene-d8 (9.593)
Chlorobenzene-d5 (11.020)+
Bromofluorobenzene (12.211)
1,4-Dichlorobenzene-d4 (13.402)+

Data File: \\ELABNSH05\TARGET\chem\voa6.i\091311V6.b\0913CAL4.D
Report Date: 15-Sep-2011 09:37

Laboratory Name

Data file : \\ELABNSH05\TARGET\chem\voa6.i\091311V6.b\0913CAL4.D
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Operator : ADM Inst ID: voa6.i
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Misc Info : ;;;;;8260.sub;
Comment :
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Meth Date : 15-Sep-2011 09:37 amonteiro Quant Type: ISTD
Cal Date : 13-SEP-2011 14:57 Cal File: 0913CAL1.D
Als bottle: 4 Calibration Sample, Level: 4
Dil Factor: 1.00000
Integrator: HP RTE Compound Sublist: 8260.sub
Target Version: 4.04
Processing Host: TARGET02_VM

Concentration Formula: Amt * DF * 5*Uf/Vo

Name	Value	Description
DF	1.000	Dilution Factor
Uf	1.000	unit correction factor
Vo	5.000	Volume of sample purged (mL)

09/15/11 09/17/11

Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	AMOUNTS CAL-AMT (ug/L)	ON-COL (ug/L)
* 55 Fluorobenzene	96	7.903	7.903	(1.000)	858032	30.0000	
1 Dichlorodifluoromethane	85	2.027	2.027	(0.257)	29787	5.00000	4.164
2 Chloromethane	50	2.244	2.244	(0.284)	37808	5.00000	4.439
3 Vinyl chloride	62	2.382	2.382	(0.301)	33977	5.00000	4.623
4 Bromomethane	94	2.824	2.824	(0.357)	20435	5.00000	4.541
5 Chloroethane	64	2.962	2.962	(0.375)	22741	5.00000	4.892
6 Trichlorofluoromethane	101	3.454	3.454	(0.437)	54610	5.00000	4.786
10 Ethyl Ether	59	3.887	3.887	(0.492)	29427	5.00000	4.819
22 Acetonitrile	41	3.848	3.848	(0.487)	60552	50.0000	49.33
14 Trichlorotrifluoroethane	101	4.320	4.320	(0.547)	29063	5.00000	4.796
7 Acrolein	56	3.651	3.651	(0.462)	32562	25.0000	23.46
36 Allyl chloride	41	4.675	4.675	(0.592)	63954	5.00000	4.789
13 1,1-Dichloroethene	96	4.242	4.242	(0.537)	26253	5.00000	4.697(Q)
9 Acetone	43	3.779	3.779	(0.478)	31355	10.0000	9.093(a)
15 t-Butyl alcohol	59	4.399	4.399	(0.557)	22397	25.0000	24.89
16 Iodomethane	142	4.429	4.429	(0.560)	32337	5.00000	5.168

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	Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	AMOUNTS CAL-AMT (ug/L)	AMOUNTS ON-COL (ug/L)
	20 Carbon disulfide	76	4.763	4.763	(0.603)	87978	5.00000	4.627
	19 Methylene chloride	84	4.724	4.724	(0.598)	32793	5.00000	4.702
	18 Acrylonitrile	53	4.606	4.606	(0.583)	66018	25.0000	23.40(Q)
	24 trans-1,2-Dichloroethene	96	5.383	5.383	(0.681)	34277	5.00000	4.781
	23 MTBE	73	5.393	5.393	(0.682)	119402	5.00000	4.949
	26 1,1-Dichloroethane	63	5.757	5.757	(0.729)	80056	5.00000	4.952
	56 Propionitrile	54	5.934	5.934	(0.751)	70675	50.0000	48.26
	27 Vinyl acetate	43	5.836	5.836	(0.738)	240776	10.0000	9.832
	69 Chloroprene	53	6.013	6.013	(0.761)	77066	5.00000	4.732
	32 Di-isopropyl ether	45	6.131	6.131	(0.776)	192906	5.00000	4.898
	35 cis-1,2-Dichloroethene	96	6.466	6.466	(0.818)	40187	5.00000	4.966(Q)
M	47 1,2-Dichloroethene(total)	96				74464	10.0000	9.747
	33 2-Butanone	43	6.210	6.210	(0.786)	58327	10.0000	9.394(a)
	73 Methacrylonitrile	41	6.368	6.368	(0.806)	397176	50.0000	49.78
	72 Hexane	57	5.954	5.954	(0.753)	45421	5.00000	4.626
	40 Bromochloromethane	128	6.742	6.742	(0.853)	19399	5.00000	4.826
	84 Isobutyl alcohol	43	6.820	6.820	(0.863)	44042	100.000	89.27
	42 Tetrahydrofuran	42	6.929	6.929	(0.877)	15306	5.00000	4.558
	43 tert-Amyl alcohol	59	7.096	7.096	(0.898)	18295	25.0000	23.30
	39 Chloroform	83	6.712	6.712	(0.849)	72322	5.00000	4.846
	17 Methyl acetate	43	4.596	4.596	(0.582)	33401	5.00000	4.461
$	41 Dibromofluoromethane	111	6.889	6.889	(0.872)	443360	50.0000	49.75
	44 1,1,1-Trichloroethane	97	7.273	7.273	(0.920)	58548	5.00000	4.914
	38 ETBE	59	6.594	6.594	(0.834)	160458	5.00000	4.886
	49 Cyclohexane	56	7.539	7.539	(0.954)	68728	5.00000	4.745
	51 Carbon tetrachloride	117	7.608	7.608	(0.963)	47590	5.00000	4.828
$	45 1,2-Dichloroethane-d4	102	7.381	7.381	(0.934)	92448	50.0000	49.76
	52 Benzene	78	7.637	7.637	(0.966)	147150	5.00000	4.888
	54 tert-Amyl Methyl Ether	73	7.834	7.834	(0.991)	128089	5.00000	4.840
	46 1,2-Dichloroethane	62	7.470	7.470	(0.945)	75280	5.00000	4.994
	37 2,2-Dichloropropane	77	6.564	6.564	(0.831)	58723	5.00000	4.815
	48 1,1-Dichloropropene	75	7.490	7.490	(0.948)	55943	5.00000	4.913
	58 Trichloroethene	95	8.395	8.395	(1.062)	38516	5.00000	4.919
	62 1,4-Dioxane	88	8.602	8.602	(1.088)	7993	100.000	98.00(Q)
	59 1,2-Dichloropropane	63	8.444	8.444	(1.068)	45725	5.00000	5.045
	61 Dibromomethane	93	8.562	8.562	(1.083)	27489	5.00000	4.876
	50 Methyl methacrylate	41	8.582	8.582	(1.086)	55946	5.00000	4.798
	63 Bromodichloromethane	83	8.621	8.621	(1.091)	56418	5.00000	4.770
	64 tert-Amyl Ethyl Ether	59	8.710	8.710	(1.102)	128873	5.00000	4.945
	68 2-Chloroethyl vinyl ether	63	8.976	8.976	(1.136)	56057	10.0000	9.736
	71 cis-1,3-Dichloropropene	75	9.192	9.192	(1.163)	66645	5.00000	4.936
	70 4-Methyl-2-pentanone	43	9.123	9.123	(1.154)	116738	10.0000	9.691
$	75 Toluene-d8	98	9.596	9.596	(0.871)	1325102	50.0000	49.88
	77 Toluene	92	9.665	9.665	(0.878)	86579	5.00000	4.906
	76 trans-1,3-Dichloropropene	75	9.665	9.665	(0.878)	70447	5.00000	4.896
	79 Ethyl methacrylate	69	9.852	9.852	(0.895)	60066	5.00000	4.778
	78 1,1,2-Trichloroethane	83	9.822	9.822	(0.892)	30550	5.00000	4.959

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Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	AMOUNTS CAL-AMT (ug/L)	AMOUNTS ON-COL (ug/L)
83 Tetrachloroethene	166	10.403	10.403	(0.945)	31469	5.00000	4.838
80 2-Hexanone	43	9.970	9.970	(0.905)	80323	10.0000	9.106
82 Dibromochloromethane	129	10.285	10.285	(0.934)	37961	5.00000	4.652
85 1,2-Dibromoethane	107	10.501	10.501	(0.954)	38067	5.00000	4.811
65 Methyl cyclohexane	83	8.769	8.769	(1.110)	45808	5.00000	4.737
* 86 Chlorobenzene-d5	82	11.013	11.013	(1.000)	403998	30.0000	
88 Chlorobenzene	112	11.052	11.052	(1.004)	96550	5.00000	4.824
89 1,1,1,2-Tetrachloroethane	131	11.092	11.092	(1.007)	33584	5.00000	4.744
87 1-Chlorohexane	91	11.013	11.013	(1.000)	48668	5.00000	4.571
90 Ethylbenzene	91	11.200	11.200	(1.017)	166299	5.00000	4.805
91 m,p-Xylene	91	11.308	11.308	(1.027)	262141	10.0000	9.810
M 127 Xylene(total)	91				397571	15.0000	14.61
93 o-Xylene	91	11.702	11.702	(1.063)	135430	5.00000	4.801
92 Styrene	104	11.672	11.672	(1.060)	105599	5.00000	4.782
95 Bromoform	173	11.781	11.781	(1.070)	21346	5.00000	4.714
125 cis-1,4-Dichloro-2-butene	75	11.859	11.859	(0.885)	15772	5.00000	4.794(a)
97 Isopropylbenzene	105	12.096	12.096	(1.098)	137625	5.00000	4.777
$ 99 Bromofluorobenzene	95	12.204	12.204	(1.108)	570965	50.0000	48.26
96 1,1,2,2-Tetrachloroethane	83	12.017	12.017	(0.896)	45681	5.00000	4.745
81 1,3-Dichloropropane	76	10.029	10.029	(0.911)	63012	5.00000	4.886
98 1,2,3-Trichloropropane	110	12.145	12.145	(1.103)	13981	5.00000	5.071(Q)
124 trans-1,4-Dichloro-2-butene	53	12.164	12.164	(0.907)	21588	5.00000	4.803(a)
101 n-Propylbenzene	91	12.499	12.499	(0.932)	176652	5.00000	4.749
105 1,3,5-Trimethylbenzene	105	12.686	12.686	(0.946)	121664	5.00000	4.831
108 1,2,4-Trimethylbenzene	105	13.050	13.050	(0.974)	124834	5.00000	4.794
109 sec-Butylbenzene	105	13.257	13.257	(0.989)	136776	5.00000	4.730
107 tert-Butylbenzene	119	13.021	13.021	(0.971)	108868	5.00000	4.826
110 1,3-Dichlorobenzene	146	13.346	13.346	(0.996)	65738	5.00000	4.835
* 112 1,4-Dichlorobenzene-d4	152	13.405	13.405	(1.000)	333506	30.0000	(Q)
113 1,4-Dichlorobenzene	146	13.434	13.434	(1.002)	67189	5.00000	4.865
115 n-Butylbenzene	91	13.798	13.798	(1.029)	103448	5.00000	4.733
114 1,2-Dichlorobenzene	146	13.749	13.749	(1.026)	62498	5.00000	4.822
118 1,2-Dibromo-3-chloropropane	157	14.399	14.399	(1.074)	7179	5.00000	4.505
119 1,3,5-Trichlorobenzene	180	14.920	14.920	(1.113)	37363	5.00000	4.683
100 Bromobenzene	156	12.371	12.371	(0.923)	37812	5.00000	4.982
102 2-Chlorotoluene	91	12.588	12.588	(0.939)	115314	5.00000	4.884
103 4-Chlorotoluene	91	12.647	12.647	(0.943)	132322	5.00000	4.859
120 1,2,4-Trichlorobenzene	180	15.471	15.471	(1.154)	33129	5.00000	4.498
121 Naphthalene	128	15.619	15.619	(1.165)	80547	5.00000	4.565
111 p-Isopropyltoluene	119	13.395	13.395	(0.999)	116245	5.00000	4.797
122 Hexachlorobutadiene	225	15.757	15.757	(1.175)	15053	5.00000	4.507
123 1,2,3-Trichlorobenzene	180	15.904	15.904	(1.186)	28922	5.00000	4.633

QC Flag Legend

a - Target compound detected but, quantitated amount Below Limit Of Quantitation(BLOQ).

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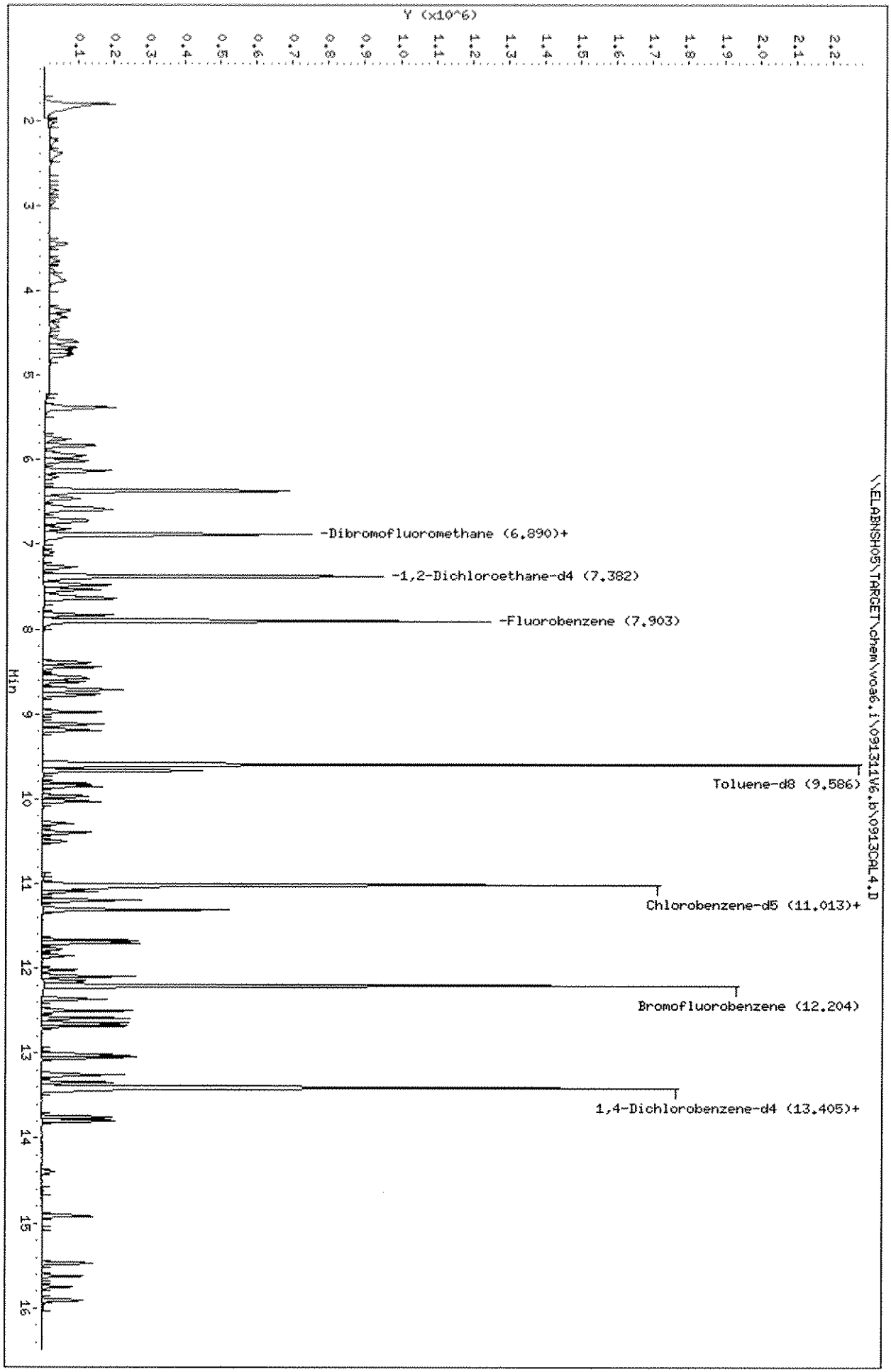
QC Flag Legend

Q - Qualifier signal failed the ratio test.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Purge Volume: 5.0
Column phase: RTX-VRX
Instrument: voa6.i
Operator: ADM
Column diameter: 0.25
Y (x10^6)
Min
\\ELABNSH05\TARGET\chem\voa6.i\091311V6.b\0913CAL4.D
-Dibromofluoromethane (6.890)+
-1,2-Dichloroethane-d4 (7.382)
-Fluorobenzene (7.903)
Toluene-d8 (9.586)
Chlorobenzene-d5 (11.013)+
Bromofluorobenzene (12.204)
1,4-Dichlorobenzene-d4 (13.405)+

Data File: \\ELABNSH05\TARGET\chem\voa6.i\091311V6.b\0913CAL5.D
Report Date: 15-Sep-2011 09:37

Laboratory Name

Data file : \\ELABNSH05\TARGET\chem\voa6.i\091311V6.b\0913CAL5.D
Lab Smp Id: SEQ-CAL5 Client Smp ID: SEQ-CAL5
Inj Date : 13-SEP-2011 16:44 MS Autotune Date: 13-SEP-2011 09:32
Operator : ADM Inst ID: voa6.i
Smp Info : SEQ-CAL5;;;;;
Misc Info : ;;;;;8260.sub;
Comment :
Method : \\ELABNSH05\TARGET\chem\voa6.i\091311V6.b\VW6SUR.m
Meth Date : 15-Sep-2011 09:37 amonteiro Quant Type: ISTD
Cal Date : 13-SEP-2011 14:57 Cal File: 0913CAL1.D
Als bottle: 5 Calibration Sample, Level: 5
Dil Factor: 1.00000
Integrator: HP RTE Compound Sublist: 8260.sub
Target Version: 4.04
Processing Host: TARGET02_VM

Concentration Formula: Amt * DF * 5*Uf/Vo

Name	Value	Description
DF	1.000	Dilution Factor
Uf	1.000	unit correction factor
Vo	5.000	Volume of sample purged (mL)

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CH 11/7

Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	AMOUNTS CAL-AMT (ug/L)	AMOUNTS ON-COL (ug/L)
* 55 Fluorobenzene	96	7.906	7.906	(1.000)	848678	30.0000	
1 Dichlorodifluoromethane	85	2.030	2.030	(0.257)	76166	10.0000	10.76
2 Chloromethane	50	2.246	2.246	(0.284)	85160	10.0000	10.11
3 Vinyl chloride	62	2.384	2.384	(0.302)	73755	10.0000	10.14
4 Bromomethane	94	2.827	2.827	(0.358)	41398	10.0000	9.301
5 Chloroethane	64	2.955	2.955	(0.374)	47119	10.0000	10.25
6 Trichlorofluoromethane	101	3.457	3.457	(0.437)	116764	10.0000	10.34
10 Ethyl Ether	59	3.890	3.890	(0.492)	58208	10.0000	9.637
22 Acetonitrile	41	3.841	3.841	(0.486)	118696	100.000	97.77
14 Trichlorotrifluoroethane	101	4.313	4.313	(0.546)	58903	10.0000	9.828
7 Acrolein	56	3.654	3.654	(0.462)	64596	50.0000	47.05
36 Allyl chloride	41	4.668	4.668	(0.590)	128584	10.0000	9.735
13 1,1-Dichloroethene	96	4.234	4.234	(0.536)	51182	10.0000	9.258(Q)
9 Acetone	43	3.772	3.772	(0.477)	66360	20.0000	19.46
15 t-Butyl alcohol	59	4.402	4.402	(0.557)	41447	50.0000	46.57
16 Iodomethane	142	4.431	4.431	(0.561)	70918	10.0000	9.485

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	Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	AMOUNTS CAL-AMT (ug/L)	AMOUNTS ON-COL (ug/L)
	20 Carbon disulfide	76	4.766	4.766	(0.603)	189700	10.0000	10.09
	19 Methylene chloride	84	4.717	4.717	(0.597)	64543	10.0000	9.356
	18 Acrylonitrile	53	4.608	4.608	(0.583)	137611	50.0000	49.32(Q)
	24 trans-1,2-Dichloroethene	96	5.386	5.386	(0.681)	68809	10.0000	9.704
	23 MTBE	73	5.386	5.386	(0.681)	236691	10.0000	9.918
	26 1,1-Dichloroethane	63	5.750	5.750	(0.727)	160130	10.0000	10.01
	56 Propionitrile	54	5.927	5.927	(0.750)	141458	100.000	97.65
	27 Vinyl acetate	43	5.829	5.829	(0.737)	487457	20.0000	20.12
	69 Chloroprene	53	6.016	6.016	(0.761)	163844	10.0000	10.17
	32 Di-isopropyl ether	45	6.134	6.134	(0.776)	389496	10.0000	9.999
	35 cis-1,2-Dichloroethene	96	6.459	6.459	(0.817)	79043	10.0000	9.874(Q)
M	47 1,2-Dichloroethene(total)	96				147852	20.0000	19.58
	33 2-Butanone	43	6.213	6.213	(0.786)	119657	20.0000	19.48
	73 Methacrylonitrile	41	6.370	6.370	(0.806)	796499	100.000	100.9
	72 Hexane	57	5.957	5.957	(0.754)	97538	10.0000	10.04
	40 Bromochloromethane	128	6.734	6.734	(0.852)	40372	10.0000	10.15
	84 Isobutyl alcohol	43	6.813	6.813	(0.862)	90340	200.000	185.1
	42 Tetrahydrofuran	42	6.931	6.931	(0.877)	29513	10.0000	8.885
	43 tert-Amyl alcohol	59	7.099	7.099	(0.898)	35418	50.0000	45.60
	39 Chloroform	83	6.715	6.715	(0.849)	141569	10.0000	9.590
	17 Methyl acetate	43	4.589	4.589	(0.580)	68741	10.0000	9.283
$	41 Dibromofluoromethane	111	6.882	6.882	(0.871)	519366	60.0000	58.93
	44 1,1,1-Trichloroethane	97	7.266	7.266	(0.919)	119172	10.0000	10.11
	38 ETBE	59	6.597	6.597	(0.834)	321098	10.0000	9.886
	49 Cyclohexane	56	7.541	7.541	(0.954)	142336	10.0000	9.935
	51 Carbon tetrachloride	117	7.610	7.610	(0.963)	98662	10.0000	10.12
$	45 1,2-Dichloroethane-d4	102	7.384	7.384	(0.934)	109649	60.0000	59.66
	52 Benzene	78	7.640	7.640	(0.966)	296722	10.0000	9.966
	54 tert-Amyl Methyl Ether	73	7.837	7.837	(0.991)	257197	10.0000	9.825
	46 1,2-Dichloroethane	62	7.473	7.473	(0.945)	149643	10.0000	10.04
	37 2,2-Dichloropropane	77	6.567	6.567	(0.831)	121510	10.0000	10.07
	48 1,1-Dichloropropene	75	7.492	7.492	(0.948)	113016	10.0000	10.04(Q)
	58 Trichloroethene	95	8.398	8.398	(1.062)	77037	10.0000	9.946
	62 1,4-Dioxane	88	8.604	8.604	(1.088)	15803	200.000	195.9(Q)
	59 1,2-Dichloropropane	63	8.447	8.447	(1.068)	89824	10.0000	10.02
	61 Dibromomethane	93	8.555	8.555	(1.082)	54792	10.0000	9.826
	50 Methyl methacrylate	41	8.585	8.585	(1.086)	114405	10.0000	9.920
	63 Bromodichloromethane	83	8.624	8.624	(1.091)	114692	10.0000	9.803
	64 tert-Amyl Ethyl Ether	59	8.713	8.713	(1.102)	258618	10.0000	10.03
	68 2-Chloroethyl vinyl ether	63	8.978	8.978	(1.136)	113688	20.0000	19.96
	71 cis-1,3-Dichloropropene	75	9.195	9.195	(1.163)	130424	10.0000	9.766
	70 4-Methyl-2-pentanone	43	9.116	9.116	(1.153)	230763	20.0000	19.37
$	75 Toluene-d8	98	9.589	9.589	(0.870)	1548696	60.0000	58.66
	77 Toluene	92	9.667	9.667	(0.878)	171992	10.0000	9.806
	76 trans-1,3-Dichloropropene	75	9.667	9.667	(0.878)	140991	10.0000	9.860
	79 Ethyl methacrylate	69	9.854	9.854	(0.895)	118003	10.0000	9.444
	78 1,1,2-Trichloroethane	83	9.815	9.815	(0.891)	59269	10.0000	9.681

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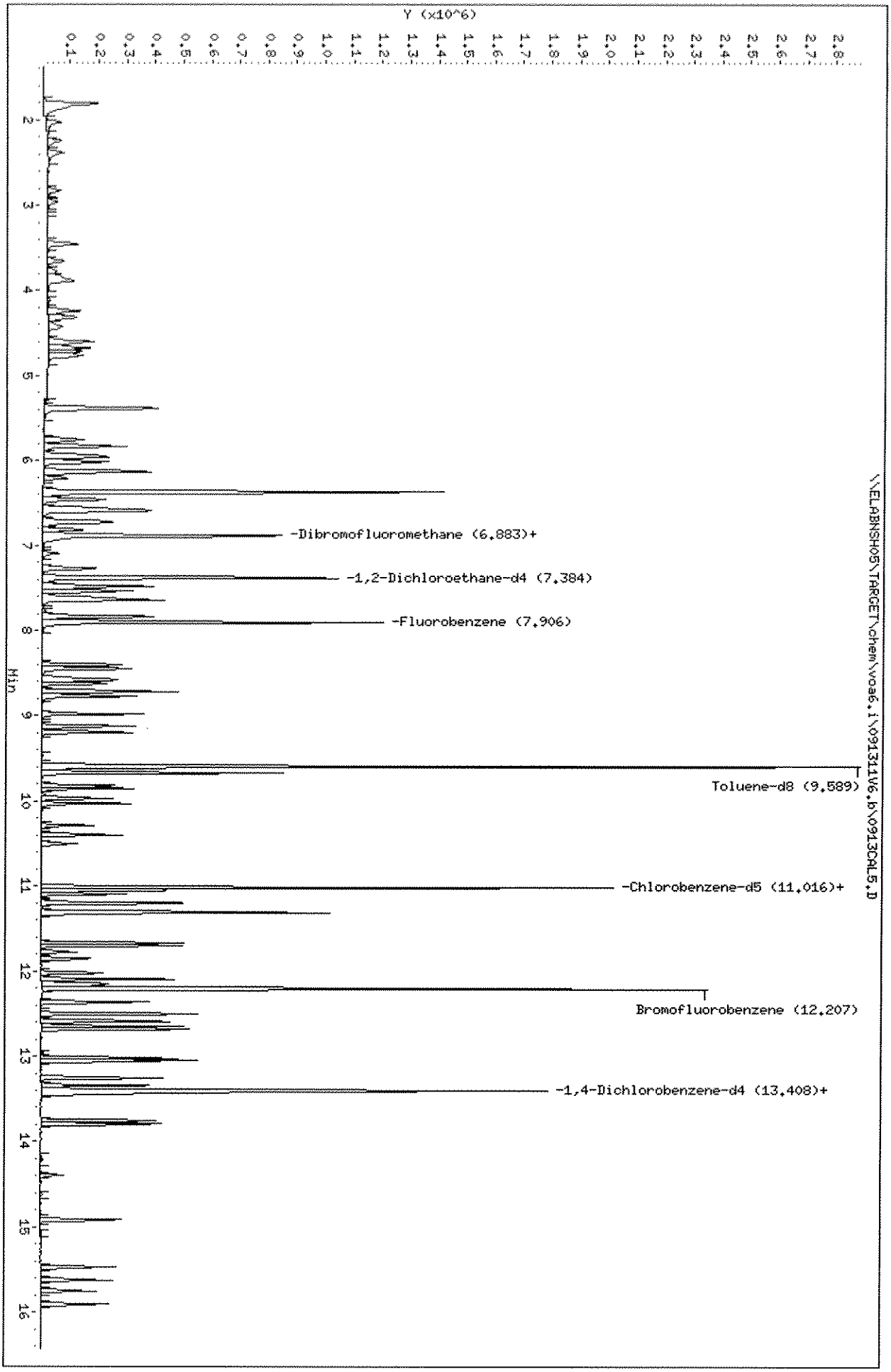
	Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	AMOUNTS CAL-AMT (ug/L)	AMOUNTS ON-COL (ug/L)	
83	Tetrachloroethene	166	10.396	10.396	(0.944)	62025	10.0000	9.595	
80	2-Hexanone	43	9.963	9.963	(0.904)	166733	20.0000	19.02	
82	Dibromochloromethane	129	10.287	10.287	(0.934)	76768	10.0000	9.465	
85	1,2-Dibromoethane	107	10.504	10.504	(0.954)	75053	10.0000	9.544	
65	Methyl cyclohexane	83	8.772	8.772	(1.110)	93101	10.0000	9.734	
* 86	Chlorobenzene-d5	82	11.016	11.016	(1.000)	401516	30.0000		
88	Chlorobenzene	112	11.055	11.055	(1.004)	190349	10.0000	9.570	
89	1,1,1,2-Tetrachloroethane	131	11.094	11.094	(1.007)	66150	10.0000	9.402	
87	1-Chlorohexane	91	11.016	11.016	(1.000)	93720	10.0000	8.858	
90	Ethylbenzene	91	11.203	11.203	(1.017)	329121	10.0000	9.568	
91	m,p-Xylene	91	11.311	11.311	(1.027)	514107	20.0000	19.36	
M 127	Xylene(total)	91				780630	30.0000	28.87	
93	o-Xylene	91	11.705	11.705	(1.063)	266523	10.0000	9.508	
92	Styrene	104	11.675	11.675	(1.060)	214424	10.0000	9.770	
95	Bromoform	173	11.773	11.773	(1.069)	45141	10.0000	10.03	
125	cis-1,4-Dichloro-2-butene	75	11.862	11.862	(0.885)	31545	10.0000	9.519	
97	Isopropylbenzene	105	12.098	12.098	(1.098)	276074	10.0000	9.641	
$ 99	Bromofluorobenzene	95	12.207	12.207	(1.108)	670531	60.0000	57.03	
96	1,1,2,2-Tetrachloroethane	83	12.020	12.020	(0.896)	93655	10.0000	9.659	
81	1,3-Dichloropropane	76	10.031	10.031	(0.911)	123990	10.0000	9.674	
98	1,2,3-Trichloropropane	110	12.147	12.147	(1.103)	26121	10.0000	9.532	
124	trans-1,4-Dichloro-2-butene	53	12.167	12.167	(0.908)	43006	10.0000	9.500	
101	n-Propylbenzene	91	12.502	12.502	(0.932)	358791	10.0000	9.577	
105	1,3,5-Trimethylbenzene	105	12.679	12.679	(0.946)	247246	10.0000	9.748	
108	1,2,4-Trimethylbenzene	105	13.053	13.053	(0.974)	252206	10.0000	9.616	
109	sec-Butylbenzene	105	13.260	13.260	(0.989)	281651	10.0000	9.671	
107	tert-Butylbenzene	119	13.023	13.023	(0.971)	219512	10.0000	9.661	
110	1,3-Dichlorobenzene	146	13.348	13.348	(0.996)	131246	10.0000	9.583	
* 112	1,4-Dichlorobenzene-d4	152	13.407	13.407	(1.000)	335915	30.0000		(Q)
113	1,4-Dichlorobenzene	146	13.437	13.437	(1.002)	133292	10.0000	9.582	
115	n-Butylbenzene	91	13.791	13.791	(1.029)	213705	10.0000	9.708	
114	1,2-Dichlorobenzene	146	13.752	13.752	(1.026)	127432	10.0000	9.761	
118	1,2-Dibromo-3-chloropropane	157	14.391	14.391	(1.073)	14837	10.0000	9.243	
119	1,3,5-Trichlorobenzene	180	14.923	14.923	(1.113)	75190	10.0000	9.357	
100	Bromobenzene	156	12.364	12.364	(0.922)	72021	10.0000	9.422	
102	2-Chlorotoluene	91	12.590	12.590	(0.939)	228538	10.0000	9.610	
103	4-Chlorotoluene	91	12.649	12.649	(0.943)	264720	10.0000	9.651	
120	1,2,4-Trichlorobenzene	180	15.474	15.474	(1.154)	69282	10.0000	9.339	
121	Naphthalene	128	15.622	15.622	(1.165)	163078	10.0000	9.177	
111	p-Isopropyltoluene	119	13.397	13.397	(0.999)	234498	10.0000	9.607	
122	Hexachlorobutadiene	225	15.750	15.750	(1.175)	32252	10.0000	9.587	
123	1,2,3-Trichlorobenzene	180	15.907	15.907	(1.186)	58151	10.0000	9.249	

QC Flag Legend

Q - Qualifier signal failed the ratio test.

Data File: \\ELABNSH05\TARGET\chem\voa6.i\091311V6.b\0913CAL5.D
Date : 13-SEP-2011 16:44
Client ID: SEQ-CAL5
Sample Info: SEQ-CAL5;;;;
Purge Volume: 5.0
Column phase: RTX-VRX

Instrument: voa6.i
Operator: ADM
Column diameter: 0.25



Data File: \\ELABNSH05\TARGET\chem\voa6.i\091311V6.b\0913CAL6.D
Report Date: 15-Sep-2011 09:37

Laboratory Name

Data file : \\ELABNSH05\TARGET\chem\voa6.i\091311V6.b\0913CAL6.D
Lab Smp Id: SEQ-CAL6 Client Smp ID: SEQ-CAL6
Inj Date : 13-SEP-2011 17:10 MS Autotune Date: 13-SEP-2011 09:32
Operator : ADM Inst ID: voa6.i
Smp Info : SEQ-CAL6;;;;;
Misc Info : ;;;;;8260.sub;
Comment :
Method : \\ELABNSH05\TARGET\chem\voa6.i\091311V6.b\VW6SUR.m
Meth Date : 15-Sep-2011 09:37 amonteiro Quant Type: ISTD
Cal Date : 13-SEP-2011 14:57 Cal File: 0913CAL1.D
Als bottle: 6 Calibration Sample, Level: 6
Dil Factor: 1.00000
Integrator: HP RTE Compound Sublist: 8260.sub
Target Version: 4.04
Processing Host: TARGET02_VM

Concentration Formula: Amt * DF * 5*Uf/Vo

Name	Value	Description
DF	1.000	Dilution Factor
Uf	1.000	unit correction factor
Vo	5.000	Volume of sample purged (mL)

09/15/11 ma 9/15/11

Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	AMOUNTS CAL-AMT (ug/L)	AMOUNTS ON-COL (ug/L)
* 55 Fluorobenzene	96	7.910	7.910	(1.000)	891069	30.0000	
1 Dichlorodifluoromethane	85	2.024	2.024	(0.256)	407125	50.0000	54.81
2 Chloromethane	50	2.241	2.241	(0.283)	450164	50.0000	50.89
3 Vinyl chloride	62	2.378	2.378	(0.301)	385803	50.0000	50.54
4 Bromomethane	94	2.821	2.821	(0.357)	234445	50.0000	50.17
5 Chloroethane	64	2.959	2.959	(0.374)	241381	50.0000	50.00
6 Trichlorofluoromethane	101	3.451	3.451	(0.436)	621916	50.0000	52.48
10 Ethyl Ether	59	3.884	3.884	(0.491)	312181	50.0000	49.23
22 Acetonitrile	41	3.845	3.845	(0.486)	645844	500.000	506.7
14 Trichlorotrifluoroethane	101	4.317	4.317	(0.546)	317800	50.0000	50.50
7 Acrolein	56	3.658	3.658	(0.462)	349732	250.000	242.6
36 Allyl chloride	41	4.672	4.672	(0.591)	676790	50.0000	48.80
13 1,1-Dichloroethene	96	4.238	4.238	(0.536)	285240	50.0000	49.14(Q)
9 Acetone	43	3.766	3.766	(0.476)	345008	100.000	96.35
15 t-Butyl alcohol	59	4.406	4.406	(0.557)	223263	250.000	238.9
16 Iodomethane	142	4.435	4.435	(0.561)	445186	50.0000	48.64

Data File: \\ELABNSH05\TARGET\chem\voa6.i\091311V6.b\0913CAL6.D
Report Date: 15-Sep-2011 09:37

	Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	AMOUNTS CAL-AMT (ug/L)	AMOUNTS ON-COL (ug/L)
	20 Carbon disulfide	76	4.770	4.770	(0.603)	993826	50.0000	50.33
	19 Methylene chloride	84	4.721	4.721	(0.597)	327248	50.0000	45.18
	18 Acrylonitrile	53	4.603	4.603	(0.582)	746695	250.000	254.9(Q)
	24 trans-1,2-Dichloroethene	96	5.380	5.380	(0.680)	358637	50.0000	48.17
	23 MTBE	73	5.390	5.390	(0.681)	1253469	50.0000	50.03
	26 1,1-Dichloroethane	63	5.754	5.754	(0.728)	855527	50.0000	50.96
	56 Propionitrile	54	5.931	5.931	(0.750)	762710	500.000	501.5
	27 Vinyl acetate	43	5.833	5.833	(0.737)	2746061	100.000	108.0
	69 Chloroprene	53	6.020	6.020	(0.761)	874491	50.0000	51.70
	32 Di-isopropyl ether	45	6.128	6.128	(0.775)	2059369	50.0000	50.35
	35 cis-1,2-Dichloroethene	96	6.463	6.463	(0.817)	424350	50.0000	50.49(Q)
M	47 1,2-Dichloroethene(total)	96				782987	100.000	98.66
	33 2-Butanone	43	6.207	6.207	(0.785)	661515	100.000	102.6
	73 Methacrylonitrile	41	6.384	6.384	(0.807)	4289487	500.000	517.7
	72 Hexane	57	5.961	5.961	(0.754)	516408	50.0000	50.65
	40 Bromochloromethane	128	6.738	6.738	(0.852)	221603	50.0000	53.08
	84 Isobutyl alcohol	43	6.817	6.817	(0.862)	518061	1000.00	1011
	42 Tetrahydrofuran	42	6.935	6.935	(0.877)	165590	50.0000	47.48
	43 tert-Amyl alcohol	59	7.102	7.102	(0.898)	205296	250.000	251.7
	39 Chloroform	83	6.719	6.719	(0.849)	774892	50.0000	49.99
	17 Methyl acetate	43	4.593	4.593	(0.581)	382861	50.0000	49.24
$	41 Dibromofluoromethane	111	6.886	6.886	(0.871)	625377	70.0000	67.58
	44 1,1,1-Trichloroethane	97	7.270	7.270	(0.919)	644604	50.0000	52.09
	38 ETBE	59	6.591	6.591	(0.833)	1757822	50.0000	51.55
	49 Cyclohexane	56	7.536	7.536	(0.953)	746128	50.0000	49.60
	51 Carbon tetrachloride	117	7.614	7.614	(0.963)	543039	50.0000	53.05
$	45 1,2-Dichloroethane-d4	102	7.378	7.378	(0.933)	128140	70.0000	66.41
	52 Benzene	78	7.644	7.644	(0.966)	1594133	50.0000	51.00
	54 tert-Amyl Methyl Ether	73	7.841	7.841	(0.991)	1407600	50.0000	51.21
	46 1,2-Dichloroethane	62	7.476	7.476	(0.945)	798263	50.0000	50.99
	37 2,2-Dichloropropane	77	6.571	6.571	(0.831)	636434	50.0000	50.25
	48 1,1-Dichloropropene	75	7.486	7.486	(0.946)	593985	50.0000	50.23(Q)
	58 Trichloroethene	95	8.402	8.402	(1.062)	412222	50.0000	50.69
	62 1,4-Dioxane	88	8.608	8.608	(1.088)	88803	1000.00	1048(Q)
	59 1,2-Dichloropropane	63	8.451	8.451	(1.068)	479310	50.0000	50.92
	61 Dibromomethane	93	8.559	8.559	(1.082)	299621	50.0000	51.17
	50 Methyl methacrylate	41	8.579	8.579	(1.085)	613048	50.0000	50.63
	63 Bromodichloromethane	83	8.628	8.628	(1.091)	632055	50.0000	51.45
	64 tert-Amyl Ethyl Ether	59	8.717	8.717	(1.102)	1405165	50.0000	51.92
	68 2-Chloroethyl vinyl ether	63	8.982	8.982	(1.136)	635268	100.000	106.2
	71 cis-1,3-Dichloropropene	75	9.199	9.199	(1.163)	723038	50.0000	51.56
	70 4-Methyl-2-pentanone	43	9.120	9.120	(1.153)	1288842	100.000	103.0
$	75 Toluene-d8	98	9.593	9.593	(0.871)	1873423	70.0000	68.57
	77 Toluene	92	9.671	9.671	(0.878)	924208	50.0000	50.92
	76 trans-1,3-Dichloropropene	75	9.671	9.671	(0.878)	760089	50.0000	51.37
	79 Ethyl methacrylate	69	9.858	9.858	(0.895)	666444	50.0000	51.54
	78 1,1,2-Trichloroethane	83	9.819	9.819	(0.891)	320703	50.0000	50.62

Data File: \\ELABNSH05\TARGET\chem\voa6.i\091311V6.b\0913CAL6.D
Report Date: 15-Sep-2011 09:37

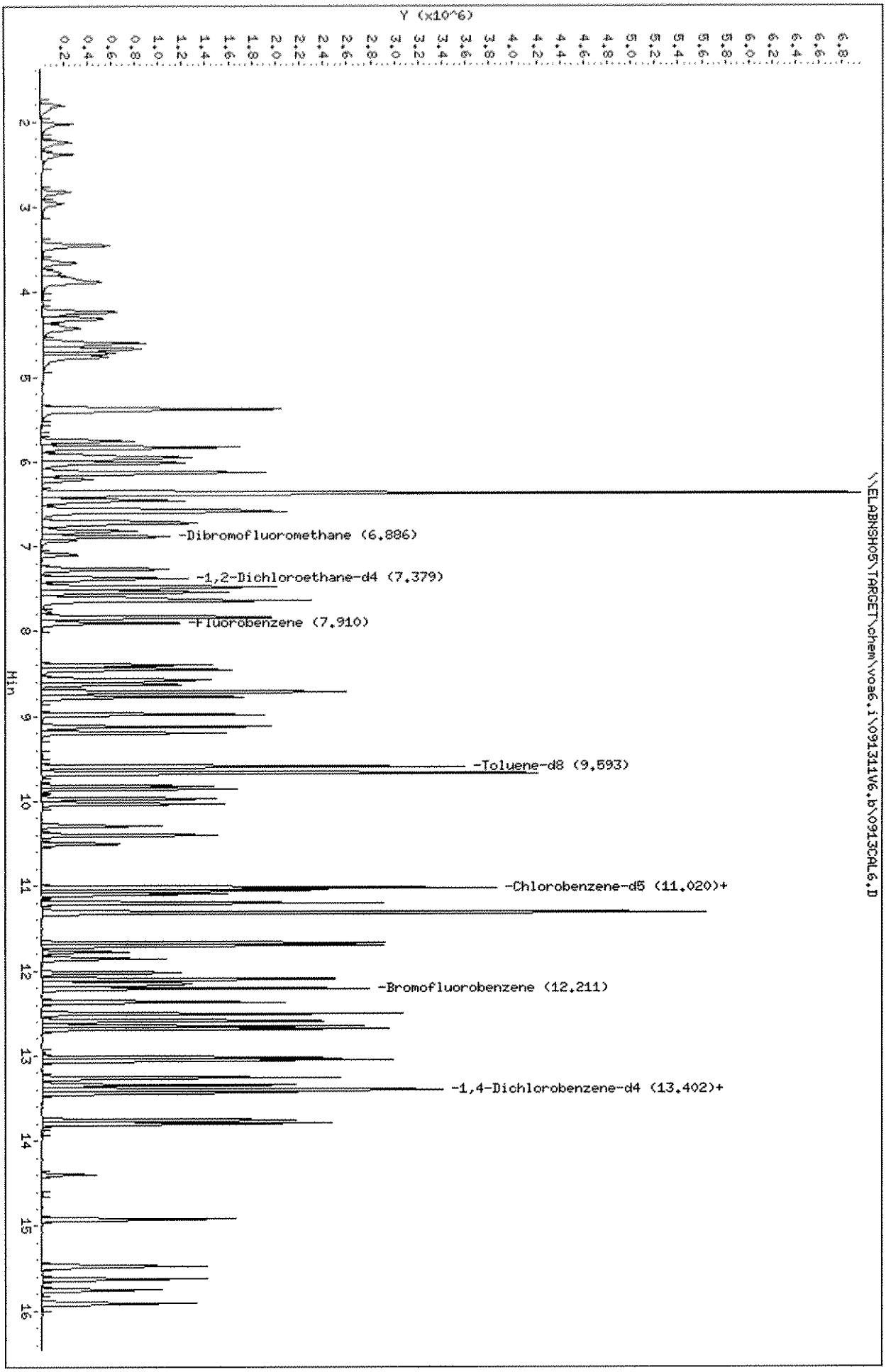
	Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	AMOUNTS CAL-AMT (ug/L)	AMOUNTS ON-COL (ug/L)	
	83 Tetrachloroethene	166	10.400	10.400	(0.944)	337480	50.0000	50.45	
	80 2-Hexanone	43	9.967	9.967	(0.904)	944954	100.000	104.2	
	82 Dibromochloromethane	129	10.291	10.291	(0.934)	448836	50.0000	53.48	
	85 1,2-Dibromoethane	107	10.498	10.498	(0.953)	418669	50.0000	51.45	
	65 Methyl cyclohexane	83	8.776	8.776	(1.109)	510557	50.0000	50.84	
*	86 Chlorobenzene-d5	82	11.020	11.020	(1.000)	415502	30.0000		
	88 Chlorobenzene	112	11.059	11.059	(1.004)	1047360	50.0000	50.89	
	89 1,1,1,2-Tetrachloroethane	131	11.098	11.098	(1.007)	376373	50.0000	51.70	
	87 1-Chlorohexane	91	11.020	11.020	(1.000)	509231	50.0000	46.51	
	90 Ethylbenzene	91	11.197	11.197	(1.016)	1830157	50.0000	51.42	
	91 m,p-Xylene	91	11.315	11.315	(1.027)	2880946	100.000	104.8	
M	127 Xylene(total)	91				4362723	150.000	155.9	
	93 o-Xylene	91	11.699	11.699	(1.062)	1481777	50.0000	51.08	
	92 Styrene	104	11.669	11.669	(1.059)	1180467	50.0000	51.98	
	95 Bromoform	173	11.777	11.777	(1.069)	270495	50.0000	58.09	
	125 cis-1,4-Dichloro-2-butene	75	11.856	11.856	(0.884)	183059	50.0000	53.68	
	97 Isopropylbenzene	105	12.102	12.102	(1.098)	1544984	50.0000	52.14	
$	99 Bromofluorobenzene	95	12.210	12.210	(1.108)	818144	70.0000	67.24	
	96 1,1,2,2-Tetrachloroethane	83	12.023	12.023	(0.897)	517205	50.0000	51.84	
	81 1,3-Dichloropropane	76	10.035	10.035	(0.911)	678082	50.0000	51.13	
	98 1,2,3-Trichloropropane	110	12.151	12.151	(1.103)	145118	50.0000	51.17	
	124 trans-1,4-Dichloro-2-butene	53	12.171	12.171	(0.908)	239104	50.0000	51.32	
	101 n-Propylbenzene	91	12.506	12.506	(0.932)	2007268	50.0000	52.06	
	105 1,3,5-Trimethylbenzene	105	12.683	12.683	(0.946)	1361824	50.0000	52.18	
	108 1,2,4-Trimethylbenzene	105	13.057	13.057	(0.974)	1409306	50.0000	52.22	
	109 sec-Butylbenzene	105	13.254	13.254	(0.988)	1558760	50.0000	52.01	
	107 tert-Butylbenzene	119	13.027	13.027	(0.971)	1219239	50.0000	52.14	
	110 1,3-Dichlorobenzene	146	13.342	13.342	(0.995)	720041	50.0000	51.09	
*	112 1,4-Dichlorobenzene-d4	152	13.411	13.411	(1.000)	345676	30.0000		(Q)
	113 1,4-Dichlorobenzene	146	13.441	13.441	(1.002)	728234	50.0000	50.87	
	115 n-Butylbenzene	91	13.795	13.795	(1.029)	1175077	50.0000	51.87	
	114 1,2-Dichlorobenzene	146	13.756	13.756	(1.026)	688814	50.0000	51.27	
	118 1,2-Dibromo-3-chloropropane	157	14.395	14.395	(1.073)	85385	50.0000	51.69	
	119 1,3,5-Trichlorobenzene	180	14.917	14.917	(1.112)	421994	50.0000	51.03	
	100 Bromobenzene	156	12.368	12.368	(0.922)	402760	50.0000	51.20	
	102 2-Chlorotoluene	91	12.594	12.594	(0.939)	1256813	50.0000	51.36	
	103 4-Chlorotoluene	91	12.653	12.653	(0.943)	1469555	50.0000	52.06	
	120 1,2,4-Trichlorobenzene	180	15.478	15.478	(1.154)	384053	50.0000	50.30	
	121 Naphthalene	128	15.626	15.626	(1.165)	907543	50.0000	49.63	
	111 p-Isopropyltoluene	119	13.392	13.392	(0.999)	1280484	50.0000	50.98	
	122 Hexachlorobutadiene	225	15.754	15.754	(1.175)	176139	50.0000	50.88	
	123 1,2,3-Trichlorobenzene	180	15.911	15.911	(1.186)	326113	50.0000	50.40	

QC Flag Legend

Q - Qualifier signal failed the ratio test.

Data File: \\ELABNSHO5\TARGET\chem\voa6.i\091311V6.b\0913CAL6.D
Date : 13-SEP-2011 17:10
Client ID: SEQ-CAL6
Sample Info: SEQ-CAL6;;;;;
Purge Volume: 5.0
Column phase: RTX-VRX

Instrument: voa6.i
Operator: ADH
Column diameter: 0.25



Data File: \\ELABNSH05\TARGET\chem\voa6.i\091311V6.b\0913CAL7.D
Report Date: 15-Sep-2011 09:37

Laboratory Name

Data file : \\ELABNSH05\TARGET\chem\voa6.i\091311V6.b\0913CAL7.D
Lab Smp Id: SEQ-CAL7 Client Smp ID: SEQ-CAL7
Inj Date : 13-SEP-2011 17:37 MS Autotune Date: 13-SEP-2011 09:32
Operator : ADM Inst ID: voa6.i
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Misc Info : ;;;;;8260.sub;
Comment :
Method : \\ELABNSH05\TARGET\chem\voa6.i\091311V6.b\VW6SUR.m
Meth Date : 15-Sep-2011 09:37 amonteiro Quant Type: ISTD
Cal Date : 13-SEP-2011 14:57 Cal File: 0913CAL1.D
Als bottle: 7 Calibration Sample, Level: 7
Dil Factor: 1.00000
Integrator: HP RTE Compound Sublist: 8260.sub
Target Version: 4.04
Processing Host: TARGET02_VM

Concentration Formula: Amt * DF * 5*Uf/Vo

Name	Value	Description
DF	1.000	Dilution Factor
Uf	1.000	unit correction factor
Vo	5.000	Volume of sample purged (mL)

ma 9/17/11

09/15/11

Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	AMOUNTS CAL-AMT (ug/L)	ON-COL (ug/L)
* 55 Fluorobenzene	96	7.910	7.910	(1.000)	925948	30.0000	
1 Dichlorodifluoromethane	85	2.024	2.024	(0.256)	839102	100.000	108.7
2 Chloromethane	50	2.241	2.241	(0.283)	962951	100.000	104.8
3 Vinyl chloride	62	2.388	2.388	(0.302)	820424	100.000	103.4
4 Bromomethane	94	2.831	2.831	(0.358)	537982	100.000	110.8
5 Chloroethane	64	2.959	2.959	(0.374)	519711	100.000	103.6
6 Trichlorofluoromethane	101	3.451	3.451	(0.436)	1305943	100.000	106.0
10 Ethyl Ether	59	3.884	3.884	(0.491)	655021	100.000	99.40
22 Acetonitrile	41	3.845	3.845	(0.486)	1386814	1000.00	1047
14 Trichlorotrifluoroethane	101	4.317	4.317	(0.546)	685539	100.000	104.8
7 Acrolein	56	3.658	3.658	(0.462)	767082	500.000	512.1
36 Allyl chloride	41	4.672	4.672	(0.591)	1425432	100.000	98.92
13 1,1-Dichloroethene	96	4.239	4.239	(0.536)	601839	100.000	99.78
9 Acetone	43	3.776	3.776	(0.477)	720236	200.000	193.6
15 t-Butyl alcohol	59	4.406	4.406	(0.557)	474194	500.000	488.3
16 Iodomethane	142	4.435	4.435	(0.561)	959065	100.000	99.09

Data File: \\ELABNSH05\TARGET\chem\voa6.i\091311V6.b\0913CAL7.D
Report Date: 15-Sep-2011 09:37

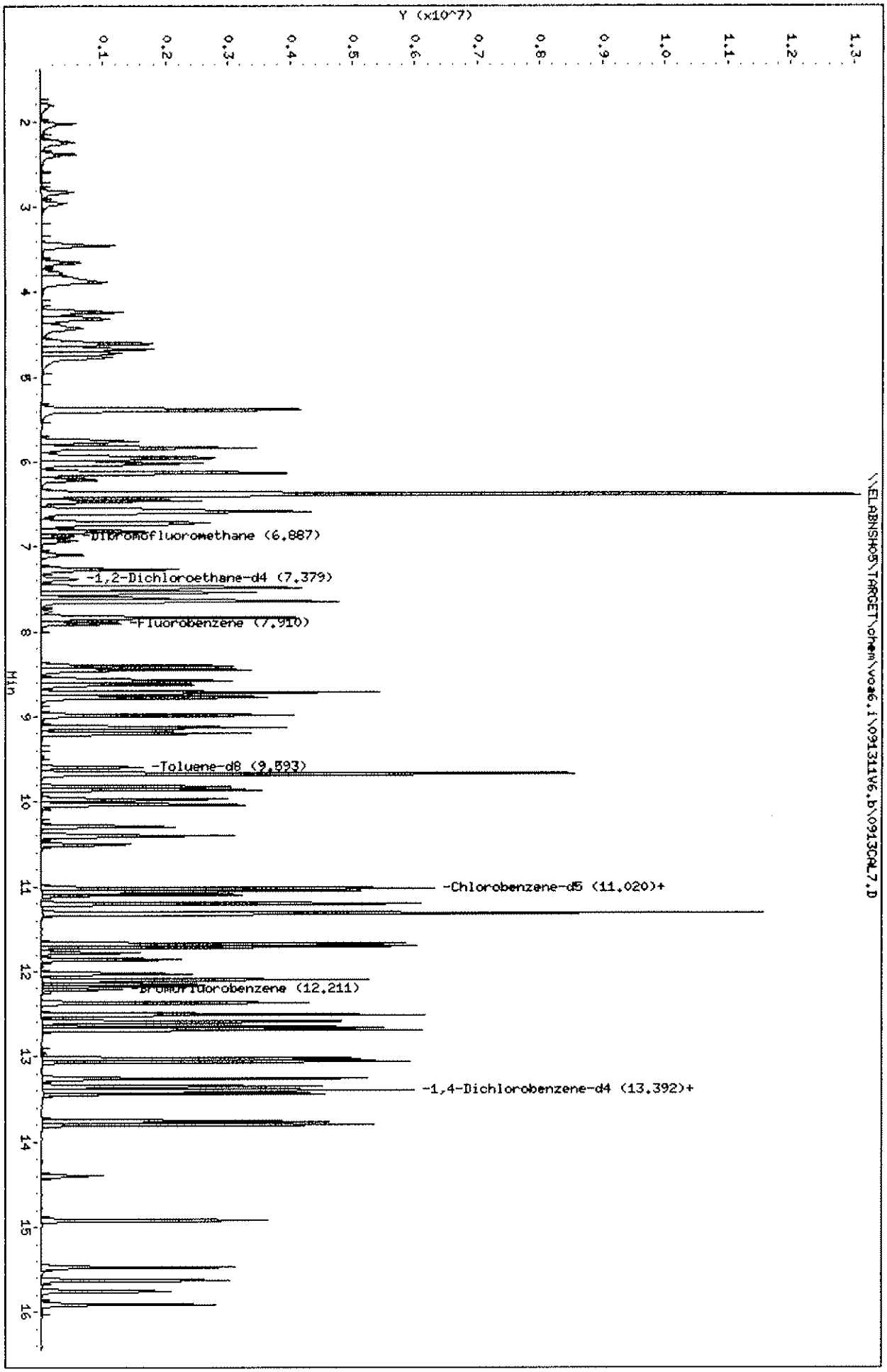
	Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	AMOUNTS CAL-AMT (ug/L)	AMOUNTS ON-COL (ug/L)
	20 Carbon disulfide	76	4.770	4.770	(0.603)	2111903	100.000	102.9
	19 Methylene chloride	84	4.721	4.721	(0.597)	685141	100.000	91.03
	18 Acrylonitrile	53	4.613	4.613	(0.583)	1591065	500.000	522.6
	24 trans-1,2-Dichloroethene	96	5.380	5.380	(0.680)	774899	100.000	100.2
	23 MTBE	73	5.390	5.390	(0.681)	2646504	100.000	101.6
	26 1,1-Dichloroethane	63	5.754	5.754	(0.728)	1760630	100.000	100.9
	56 Propionitrile	54	5.941	5.941	(0.751)	1587937	1000.00	1005
	27 Vinyl acetate	43	5.833	5.833	(0.737)	5737089	200.000	217.1
	69 Chloroprene	53	6.020	6.020	(0.761)	1834375	100.000	104.4
	32 Di-isopropyl ether	45	6.128	6.128	(0.775)	4334540	100.000	102.0
	35 cis-1,2-Dichloroethene	96	6.463	6.463	(0.817)	880086	100.000	100.8
M	47 1,2-Dichloroethene(total)	96				1654985	200.000	200.9
	33 2-Butanone	43	6.217	6.217	(0.786)	1378411	200.000	205.7
	73 Methacrylonitrile	41	6.394	6.394	(0.808)	8772718	1000.00	1019
	72 Hexane	57	5.961	5.961	(0.754)	1083979	100.000	102.3
	40 Bromochloromethane	128	6.738	6.738	(0.852)	449524	100.000	103.6
	84 Isobutyl alcohol	43	6.827	6.827	(0.863)	1103291	2000.00	2072
	42 Tetrahydrofuran	42	6.935	6.935	(0.877)	358216	100.000	98.84
	43 tert-Amyl alcohol	59	7.103	7.103	(0.898)	443564	500.000	523.4
	39 Chloroform	83	6.719	6.719	(0.849)	1605420	100.000	99.67
	17 Methyl acetate	43	4.593	4.593	(0.581)	788980	100.000	97.65
$	41 Dibromofluoromethane	111	6.886	6.886	(0.871)	294531	30.0000	30.63
	44 1,1,1-Trichloroethane	97	7.270	7.270	(0.919)	1342467	100.000	104.4
	38 ETBE	59	6.591	6.591	(0.833)	3651035	100.000	103.0
	49 Cyclohexane	56	7.545	7.545	(0.954)	1601515	100.000	102.4
	51 Carbon tetrachloride	117	7.614	7.614	(0.963)	1162203	100.000	109.2
$	45 1,2-Dichloroethane-d4	102	7.378	7.378	(0.933)	59464	30.0000	29.66
	52 Benzene	78	7.644	7.644	(0.966)	3334523	100.000	102.6
	54 tert-Amyl Methyl Ether	73	7.841	7.841	(0.991)	2985497	100.000	104.5
	46 1,2-Dichloroethane	62	7.477	7.477	(0.945)	1667465	100.000	102.5
	37 2,2-Dichloropropane	77	6.571	6.571	(0.831)	1296042	100.000	98.47
	48 1,1-Dichloropropene	75	7.486	7.486	(0.946)	1262456	100.000	102.7
	58 Trichloroethene	95	8.402	8.402	(1.062)	875081	100.000	103.6
	62 1,4-Dioxane	88	8.608	8.608	(1.088)	192044	2000.00	2182
	59 1,2-Dichloropropane	63	8.451	8.451	(1.068)	1001048	100.000	102.3
	61 Dibromomethane	93	8.559	8.559	(1.082)	629606	100.000	103.5
	50 Methyl methacrylate	41	8.579	8.579	(1.085)	1303165	100.000	103.6
	63 Bromodichloromethane	83	8.628	8.628	(1.091)	1333148	100.000	104.4
	64 tert-Amyl Ethyl Ether	59	8.717	8.717	(1.102)	2915822	100.000	103.7
	68 2-Chloroethyl vinyl ether	63	8.982	8.982	(1.136)	1336229	200.000	215.1(A)
	71 cis-1,3-Dichloropropene	75	9.199	9.199	(1.163)	1517777	100.000	104.2
	70 4-Methyl-2-pentanone	43	9.120	9.120	(1.153)	2723508	200.000	209.5
$	75 Toluene-d8	98	9.593	9.593	(0.871)	843053	30.0000	30.01
	77 Toluene	92	9.671	9.671	(0.878)	1908928	100.000	102.3
	76 trans-1,3-Dichloropropene	75	9.662	9.662	(0.877)	1585044	100.000	104.2
	79 Ethyl methacrylate	69	9.858	9.858	(0.895)	1365755	100.000	102.7
	78 1,1,2-Trichloroethane	83	9.819	9.819	(0.891)	661527	100.000	101.5

Data File: \\ELABNSH05\TARGET\chem\voa6.i\091311V6.b\0913CAL7.D
Report Date: 15-Sep-2011 09:37

Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	AMOUNTS CAL-AMT (ug/L)	AMOUNTS ON-COL (ug/L)
83 Tetrachloroethene	166	10.400	10.400	(0.944)	714105	100.000	103.8
80 2-Hexanone	43	9.967	9.967	(0.904)	1935289	200.000	207.4
82 Dibromochloromethane	129	10.291	10.291	(0.934)	953012	100.000	110.4
85 1,2-Dibromoethane	107	10.498	10.498	(0.953)	881312	100.000	105.3
65 Methyl cyclohexane	83	8.776	8.776	(1.109)	1080795	100.000	103.6
* 86 Chlorobenzene-d5	82	11.020	11.020	(1.000)	427288	30.0000	
88 Chlorobenzene	112	11.049	11.049	(1.003)	2199714	100.000	103.9
89 1,1,1,2-Tetrachloroethane	131	11.098	11.098	(1.007)	793155	100.000	105.9
87 1-Chlorohexane	91	11.020	11.020	(1.000)	1068728	100.000	94.91
90 Ethylbenzene	91	11.197	11.197	(1.016)	3835601	100.000	104.8
91 m,p-Xylene	91	11.315	11.315	(1.027)	5992545	200.000	212.0(A)
M 127 Xylene(total)	91				9074373	300.000	315.3
93 o-Xylene	91	11.699	11.699	(1.062)	3081828	100.000	103.3
92 Styrene	104	11.669	11.669	(1.059)	2465099	100.000	105.5
95 Bromoform	173	11.778	11.778	(1.069)	589081	100.000	123.0
125 cis-1,4-Dichloro-2-butene	75	11.856	11.856	(0.884)	388938	100.000	110.8
97 Isopropylbenzene	105	12.093	12.093	(1.097)	3186500	100.000	104.6
$ 99 Bromofluorobenzene	95	12.211	12.211	(1.108)	386478	30.0000	30.89
96 1,1,2,2-Tetrachloroethane	83	12.024	12.024	(0.897)	1064678	100.000	103.7
81 1,3-Dichloropropane	76	10.036	10.036	(0.911)	1419209	100.000	104.0
98 1,2,3-Trichloropropane	110	12.152	12.152	(1.103)	305385	100.000	104.7
124 trans-1,4-Dichloro-2-butene	53	12.171	12.171	(0.908)	498804	100.000	104.0
101 n-Propylbenzene	91	12.506	12.506	(0.932)	4106260	100.000	103.5
105 1,3,5-Trimethylbenzene	105	12.683	12.683	(0.946)	2839051	100.000	105.7
108 1,2,4-Trimethylbenzene	105	13.057	13.057	(0.974)	2878860	100.000	103.6
109 sec-Butylbenzene	105	13.254	13.254	(0.988)	3312597	100.000	107.4
107 tert-Butylbenzene	119	13.027	13.027	(0.971)	2553287	100.000	106.1
110 1,3-Dichlorobenzene	146	13.342	13.342	(0.995)	1521410	100.000	104.9
* 112 1,4-Dichlorobenzene-d4	152	13.411	13.411	(1.000)	355801	30.0000	
113 1,4-Dichlorobenzene	146	13.441	13.441	(1.002)	1528769	100.000	103.8
115 n-Butylbenzene	91	13.795	13.795	(1.029)	2466470	100.000	105.8
114 1,2-Dichlorobenzene	146	13.756	13.756	(1.026)	1474983	100.000	106.7
118 1,2-Dibromo-3-chloropropane	157	14.396	14.396	(1.073)	188001	100.000	110.6
119 1,3,5-Trichlorobenzene	180	14.917	14.917	(1.112)	906390	100.000	106.5
100 Bromobenzene	156	12.368	12.368	(0.922)	834047	100.000	103.0
102 2-Chlorotoluene	91	12.594	12.594	(0.939)	2599587	100.000	103.2
103 4-Chlorotoluene	91	12.653	12.653	(0.943)	3016401	100.000	103.8
120 1,2,4-Trichlorobenzene	180	15.478	15.478	(1.154)	820495	100.000	104.4
121 Naphthalene	128	15.626	15.626	(1.165)	1999980	100.000	106.2(A)
111 p-Isopropyltoluene	119	13.392	13.392	(0.999)	2719440	100.000	105.2
122 Hexachlorobutadiene	225	15.754	15.754	(1.175)	378138	100.000	106.1
123 1,2,3-Trichlorobenzene	180	15.911	15.911	(1.186)	708516	100.000	106.4

QC Flag Legend

A - Target compound detected but, quantitated amount exceeded maximum amount.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Sample Info: SEQ-CAL7;;;;;
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Column phase: RTX-VRX
Instrument: voa6.i
Operator: ADM
Column diameter: 0.25
\\ELABNSHO5\TARGET\chem\voa6.i\091311V6.b\0913CAL7.D
Y (x10^7)
Min
-Dibromofluoromethane (6.887)
-1,2-Dichloroethane-d4 (7.379)
-Fluorobenzene (7.910)
-Toluene-d8 (9.593)
-Chlorobenzene-d5 (11.020)+
-Bromofluorobenzene (12.211)
-1,4-Dichlorobenzene-d4 (13.392)+

Data File: \\ELABNSH05\TARGET\chem\voa6.i\091311V6.b\0913CAL8.D
Report Date: 15-Sep-2011 09:37

Laboratory Name

Data file : \\ELABNSH05\TARGET\chem\voa6.i\091311V6.b\0913CAL8.D
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Als bottle: 8 Calibration Sample, Level: 8
Dil Factor: 1.00000
Integrator: HP RTE Compound Sublist: 8260.sub
Target Version: 4.04
Processing Host: TARGET02_VM

Concentration Formula: Amt * DF * 5*Uf/Vo

Name	Value	Description
DF	1.000	Dilution Factor
Uf	1.000	unit correction factor
Vo	5.000	Volume of sample purged (mL)

09/13/11 09/11/11

Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	AMOUNTS CAL-AMT (ug/L)	AMOUNTS ON-COL (ug/L)
* 55 Fluorobenzene	96	7.902	7.902	(1.000)	955732	30.0000	
1 Dichlorodifluoromethane	85	2.026	2.026	(0.256)	1316142	150.000	165.2
2 Chloromethane	50	2.242	2.242	(0.284)	1483241	150.000	156.3
3 Vinyl chloride	62	2.380	2.380	(0.301)	1264190	150.000	154.4
4 Bromomethane	94	2.823	2.823	(0.357)	864920	150.000	172.6
5 Chloroethane	64	2.961	2.961	(0.375)	787340	150.000	152.1
6 Trichlorofluoromethane	101	3.453	3.453	(0.437)	1986038	150.000	156.3
10 Ethyl Ether	59	3.886	3.886	(0.492)	1040366	150.000	153.0
22 Acetonitrile	41	3.847	3.847	(0.487)	2146200	1500.00	1570
14 Trichlorotrifluoroethane	101	4.309	4.309	(0.545)	1062244	150.000	157.4
7 Acrolein	56	3.660	3.660	(0.463)	1205661	750.000	779.9
36 Allyl chloride	41	4.673	4.673	(0.591)	2228799	150.000	149.8
13 1,1-Dichloroethene	96	4.240	4.240	(0.537)	946850	150.000	152.1(Q)
9 Acetone	43	3.778	3.778	(0.478)	1094226	300.000	284.9
15 t-Butyl alcohol	59	4.408	4.408	(0.558)	740133	750.000	738.4
16 Iodomethane	142	4.437	4.437	(0.562)	1500370	150.000	149.3

Data File: \\ELABNSH05\TARGET\chem\voa6.i\091311V6.b\0913CAL8.D
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	Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	AMOUNTS CAL-AMT (ug/L)	AMOUNTS ON-COL (ug/L)
	20 Carbon disulfide	76	4.772	4.772	(0.604)	3334342	150.000	157.4
	19 Methylene chloride	84	4.723	4.723	(0.598)	1076482	150.000	138.6
	18 Acrylonitrile	53	4.614	4.614	(0.584)	2489917	750.000	792.4(Q)
	24 trans-1,2-Dichloroethene	96	5.382	5.382	(0.681)	1216161	150.000	152.3
	23 MTBE	73	5.392	5.392	(0.682)	4122839	150.000	153.4
	26 1,1-Dichloroethane	63	5.756	5.756	(0.728)	2777021	150.000	154.2
	56 Propionitrile	54	5.943	5.943	(0.752)	2434202	1500.00	1492
	27 Vinyl acetate	43	5.835	5.835	(0.738)	8822570	300.000	323.4
	69 Chloroprene	53	6.022	6.022	(0.762)	2782882	150.000	153.4
	32 Di-isopropyl ether	45	6.130	6.130	(0.776)	6728048	150.000	153.4
	35 cis-1,2-Dichloroethene	96	6.465	6.465	(0.818)	1381897	150.000	153.3(Q)
M	47 1,2-Dichloroethene(total)	96				2598058	300.000	305.6
	33 2-Butanone	43	6.219	6.219	(0.787)	2137117	300.000	309.0
	73 Methacrylonitrile	41	6.396	6.396	(0.809)	13039967	1500.00	1467
	72 Hexane	57	5.963	5.963	(0.755)	1659143	150.000	151.7
	40 Bromochloromethane	128	6.740	6.740	(0.853)	681530	150.000	152.2
	84 Isobutyl alcohol	43	6.829	6.829	(0.864)	1708699	3000.00	3109
	42 Tetrahydrofuran	42	6.937	6.937	(0.878)	542428	150.000	145.0
	43 tert-Amyl alcohol	59	7.095	7.095	(0.898)	696740	750.000	796.6
	39 Chloroform	83	6.721	6.721	(0.851)	2500861	150.000	150.4
	17 Methyl acetate	43	4.595	4.595	(0.582)	1234887	150.000	148.1
$	41 Dibromofluoromethane	111	6.888	6.888	(0.872)	301659	30.0000	30.39
	44 1,1,1-Trichloroethane	97	7.272	7.272	(0.920)	2072198	150.000	156.1
	38 ETBE	59	6.593	6.593	(0.834)	5606775	150.000	153.3
	49 Cyclohexane	56	7.537	7.537	(0.954)	2498525	150.000	154.8
	51 Carbon tetrachloride	117	7.606	7.606	(0.963)	1788897	150.000	162.9
$	45 1,2-Dichloroethane-d4	102	7.380	7.380	(0.934)	62763	30.0000	30.33
	52 Benzene	78	7.646	7.646	(0.968)	5208168	150.000	155.3
	54 tert-Amyl Methyl Ether	73	7.833	7.833	(0.991)	4552893	150.000	154.4
	46 1,2-Dichloroethane	62	7.478	7.478	(0.946)	2530562	150.000	150.7
	37 2,2-Dichloropropane	77	6.573	6.573	(0.832)	1985748	150.000	146.2
	48 1,1-Dichloropropene	75	7.488	7.488	(0.948)	1938592	150.000	152.8(Q)
	58 Trichloroethene	95	8.404	8.404	(1.064)	1352299	150.000	155.0
	62 1,4-Dioxane	88	8.610	8.610	(1.090)	297780	3000.00	3278(Q)
	59 1,2-Dichloropropane	63	8.453	8.453	(1.070)	1548228	150.000	153.4
	61 Dibromomethane	93	8.561	8.561	(1.083)	960630	150.000	153.0
	50 Methyl methacrylate	41	8.581	8.581	(1.086)	1953208	150.000	150.4
	63 Bromodichloromethane	83	8.620	8.620	(1.091)	2064761	150.000	156.7
	64 tert-Amyl Ethyl Ether	59	8.718	8.718	(1.103)	4420770	150.000	152.3
	68 2-Chloroethyl vinyl ether	63	8.984	8.984	(1.137)	2047413	300.000	319.2(A)
	71 cis-1,3-Dichloropropene	75	9.191	9.191	(1.163)	2334234	150.000	155.2
	70 4-Methyl-2-pentanone	43	9.122	9.122	(1.154)	4109304	300.000	306.3
$	75 Toluene-d8	98	9.594	9.594	(0.871)	870179	30.0000	30.00
	77 Toluene	92	9.673	9.673	(0.878)	2929775	150.000	152.0
	76 trans-1,3-Dichloropropene	75	9.663	9.663	(0.878)	2432157	150.000	154.8
	79 Ethyl methacrylate	69	9.860	9.860	(0.895)	2140616	150.000	155.9
	78 1,1,2-Trichloroethane	83	9.821	9.821	(0.892)	1019613	150.000	151.6

Data File: \\ELABNSH05\TARGET\chem\voa6.i\091311V6.b\0913CAL8.D
Report Date: 15-Sep-2011 09:37

	Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	AMOUNTS CAL-AMT (ug/L)	AMOUNTS ON-COL (ug/L)
	83 Tetrachloroethene	166	10.401	10.401	(0.945)	1128540	150.000	158.9
	80 2-Hexanone	43	9.968	9.968	(0.905)	2980511	300.000	309.5
	82 Dibromochloromethane	129	10.293	10.293	(0.935)	1490394	150.000	167.3
	85 1,2-Dibromoethane	107	10.500	10.500	(0.954)	1360196	150.000	157.4
	65 Methyl cyclohexane	83	8.778	8.778	(1.111)	1681153	150.000	156.1
*	86 Chlorobenzene-d5	82	11.012	11.012	(1.000)	441113	30.0000	
	88 Chlorobenzene	112	11.051	11.051	(1.004)	3425978	150.000	156.8
	89 1,1,1,2-Tetrachloroethane	131	11.100	11.100	(1.008)	1244499	150.000	161.0
	87 1-Chlorohexane	91	11.022	11.022	(1.001)	1667106	150.000	143.4(A)
	90 Ethylbenzene	91	11.199	11.199	(1.017)	6033093	150.000	159.6(A)
	91 m,p-Xylene	91	11.317	11.317	(1.028)	9315568	300.000	319.3(A)
M	127 Xylene(total)	91				14103443	450.000	474.8
	93 o-Xylene	91	11.701	11.701	(1.063)	4787875	150.000	155.5(A)
	92 Styrene	104	11.671	11.671	(1.060)	3853495	150.000	159.8
	95 Bromoform	173	11.779	11.779	(1.070)	934655	150.000	189.1
	125 cis-1,4-Dichloro-2-butene	75	11.858	11.858	(0.884)	596342	150.000	159.0
	97 Isopropylbenzene	105	12.094	12.094	(1.098)	5064290	150.000	161.0(A)
$	99 Bromofluorobenzene	95	12.203	12.203	(1.108)	400907	30.0000	31.04
	96 1,1,2,2-Tetrachloroethane	83	12.025	12.025	(0.897)	1654536	150.000	150.7
	81 1,3-Dichloropropane	76	10.037	10.037	(0.912)	2176963	150.000	154.6
	98 1,2,3-Trichloropropane	110	12.153	12.153	(1.104)	467229	150.000	155.2
	124 trans-1,4-Dichloro-2-butene	53	12.173	12.173	(0.908)	757539	150.000	147.8
	101 n-Propylbenzene	91	12.508	12.508	(0.932)	6527294	150.000	153.9
	105 1,3,5-Trimethylbenzene	105	12.685	12.685	(0.946)	4408289	150.000	153.5
	108 1,2,4-Trimethylbenzene	105	13.059	13.059	(0.974)	4511838	150.000	152.0
	109 sec-Butylbenzene	105	13.256	13.256	(0.988)	5150772	150.000	156.2
	107 tert-Butylbenzene	119	13.029	13.029	(0.971)	3944379	150.000	153.4
	110 1,3-Dichlorobenzene	146	13.344	13.344	(0.995)	2390201	150.000	154.2
*	112 1,4-Dichlorobenzene-d4	152	13.413	13.413	(1.000)	380254	30.0000	(Q)
	113 1,4-Dichlorobenzene	146	13.443	13.443	(1.002)	2390650	150.000	151.8
	115 n-Butylbenzene	91	13.797	13.797	(1.029)	3774127	150.000	151.4
	114 1,2-Dichlorobenzene	146	13.758	13.758	(1.026)	2259327	150.000	152.9
	118 1,2-Dibromo-3-chloropropane	157	14.397	14.397	(1.073)	292417	150.000	160.9
	119 1,3,5-Trichlorobenzene	180	14.919	14.919	(1.112)	1392985	150.000	153.1
	100 Bromobenzene	156	12.370	12.370	(0.922)	1314678	150.000	151.9
	102 2-Chlorotoluene	91	12.586	12.586	(0.938)	4075589	150.000	151.4
	103 4-Chlorotoluene	91	12.655	12.655	(0.944)	4724396	150.000	152.2
	120 1,2,4-Trichlorobenzene	180	15.470	15.470	(1.153)	1275324	150.000	151.8
	121 Naphthalene	128	15.628	15.628	(1.165)	3105499	150.000	154.4(A)
	111 p-Isopropyltoluene	119	13.393	13.393	(0.999)	4313914	150.000	156.1
	122 Hexachlorobutadiene	225	15.756	15.756	(1.175)	599382	150.000	157.4
	123 1,2,3-Trichlorobenzene	180	15.913	15.913	(1.186)	1092078	150.000	153.4

QC Flag Legend

A - Target compound detected but, quantitated amount exceeded maximum amount.

Data File: \\ELABNSH05\TARGET\chem\voa6.i\091311V6.b\0913CAL8.D
Report Date: 15-Sep-2011 09:37

QC Flag Legend

Q - Qualifier signal failed the ratio test.

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Sample Info: SEQ-CAL8;;;;
Purge Volume: 5.0
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Instrument: voa6.i
Operator: ADH
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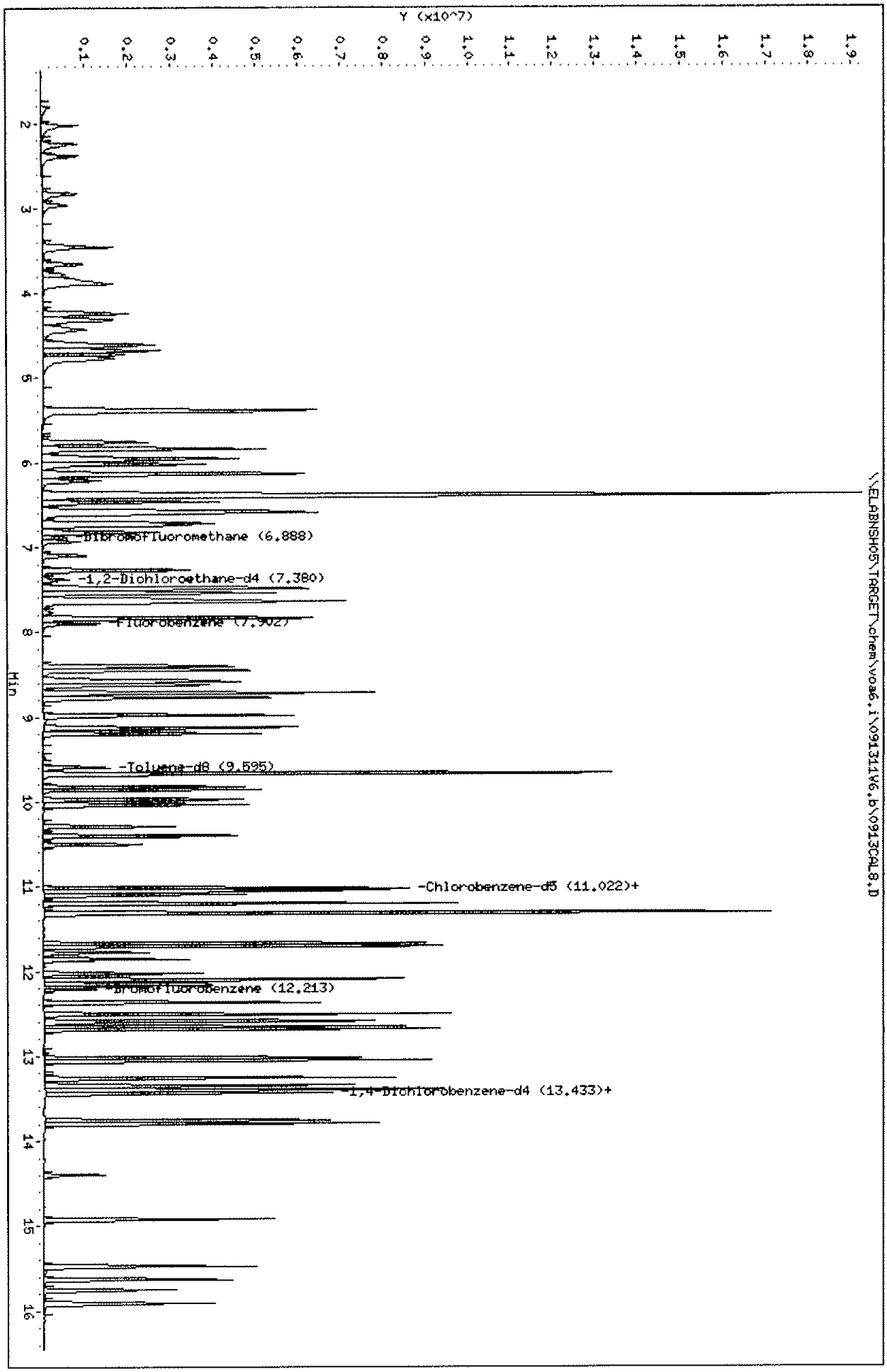

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Report Date: 15-Sep-2011 09:37

Laboratory Name

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Lab Smp Id: SEQ-CAL9 Client Smp ID: SEQ-CAL9
Inj Date : 13-SEP-2011 18:30 MS Autotune Date: 13-SEP-2011 09:32
Operator : ADM Inst ID: voa6.i
Smp Info : SEQ-CAL9;;;;;
Misc Info : ;;;;;8260.sub;
Comment :
Method : \\ELABNSH05\TARGET\chem\voa6.i\091311V6.b\VW6SUR.m
Meth Date : 15-Sep-2011 09:37 amonteiro Quant Type: ISTD
Cal Date : 13-SEP-2011 18:30 Cal File: 0913CAL9.D
Als bottle: 9 Calibration Sample, Level: 9
Dil Factor: 1.00000
Integrator: HP RTE Compound Sublist: 8260.sub
Target Version: 4.04
Processing Host: TARGET02_VM

Concentration Formula: Amt * DF * 5*Uf/Vo

Name	Value	Description
DF	1.000	Dilution Factor
Uf	1.000	unit correction factor
Vo	5.000	Volume of sample purged (mL)

091511

mg 11 7 11

Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	AMOUNTS CAL-AMT (ug/L)	ON-COL (ug/L)
* 55 Fluorobenzene	96	7.904	7.904	(1.000)	993357	30.0000	
1 Dichlorodifluoromethane	85	2.028	2.028	(0.257)	1827178	200.000	220.6(A)
2 Chloromethane	50	2.245	2.245	(0.284)	2133439	200.000	216.3(A)
3 Vinyl chloride	62	2.383	2.383	(0.301)	1770768	200.000	208.1(A)
4 Bromomethane	94	2.825	2.825	(0.358)	1234615	200.000	237.0(A)
5 Chloroethane	64	2.963	2.963	(0.375)	1096491	200.000	203.7(A)
6 Trichlorofluoromethane	101	3.455	3.455	(0.437)	2706267	200.000	204.9(A)
10 Ethyl Ether	59	3.888	3.888	(0.492)	1460603	200.000	206.6
22 Acetonitrile	41	3.849	3.849	(0.487)	3026312	2000.00	2130(A)
14 Trichlorotrifluoroethane	101	4.312	4.312	(0.546)	1506382	200.000	214.7(A)
7 Acrolein	56	3.652	3.652	(0.462)	1701837	1000.00	1059(A)
36 Allyl chloride	41	4.676	4.676	(0.592)	3030039	200.000	196.0
13 1,1-Dichloroethene	96	4.233	4.233	(0.536)	1349373	200.000	208.5(AQ)
9 Acetone	43	3.780	3.780	(0.478)	1518860	400.000	380.5
15 t-Butyl alcohol	59	4.410	4.410	(0.558)	1031087	1000.00	989.8
16 Iodomethane	142	4.430	4.430	(0.560)	2107446	200.000	201.2(A)

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Report Date: 15-Sep-2011 09:37

	Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	AMOUNTS CAL-AMT (ug/L)	AMOUNTS ON-COL (ug/L)
	20 Carbon disulfide	76	4.764	4.764	(0.603)	4708629	200.000	213.9(A)
	19 Methylene chloride	84	4.725	4.725	(0.598)	1530607	200.000	189.6
	18 Acrylonitrile	53	4.617	4.617	(0.584)	3537845	1000.00	1083(AQ)
	24 trans-1,2-Dichloroethene	96	5.384	5.384	(0.681)	1747234	200.000	210.5(A)
	23 MTBE	73	5.394	5.394	(0.682)	5855029	200.000	209.6(A)
	26 1,1-Dichloroethane	63	5.758	5.758	(0.729)	3944208	200.000	210.7(A)
	56 Propionitrile	54	5.945	5.945	(0.752)	3404853	2000.00	2008(A)
	27 Vinyl acetate	43	5.837	5.837	(0.739)	12723998	400.000	448.8(A)
	69 Chloroprene	53	6.024	6.024	(0.762)	3908917	200.000	207.3(A)
	32 Di-isopropyl ether	45	6.132	6.132	(0.776)	9476854	200.000	207.8(A)
	35 cis-1,2-Dichloroethene	96	6.477	6.477	(0.819)	1944606	200.000	207.5(AQ)
M	47 1,2-Dichloroethene(total)	96				3691840	400.000	418.1
	33 2-Butanone	43	6.221	6.221	(0.787)	2974173	400.000	413.7(A)
	73 Methacrylonitrile	41	6.408	6.408	(0.811)	17584480	2000.00	1904
	72 Hexane	57	5.965	5.965	(0.755)	2330674	200.000	205.1(A)
	40 Bromochloromethane	128	6.743	6.743	(0.853)	934925	200.000	200.9(A)
	84 Isobutyl alcohol	43	6.831	6.831	(0.864)	2345766	4000.00	4107(A)
	42 Tetrahydrofuran	42	6.939	6.939	(0.878)	760726	200.000	195.7
	43 tert-Amyl alcohol	59	7.097	7.097	(0.898)	960204	1000.00	1056(A)
	39 Chloroform	83	6.723	6.723	(0.851)	3470376	200.000	200.8(A)
	17 Methyl acetate	43	4.597	4.597	(0.582)	1705398	200.000	196.8
$	41 Dibromofluoromethane	111	6.890	6.890	(0.872)	314569	30.0000	30.49
	44 1,1,1-Trichloroethane	97	7.274	7.274	(0.920)	2841831	200.000	206.0(A)
	38 ETBE	59	6.595	6.595	(0.834)	7839568	200.000	206.2
	49 Cyclohexane	56	7.540	7.540	(0.954)	3447718	200.000	205.6(A)
	51 Carbon tetrachloride	117	7.609	7.609	(0.963)	2478856	200.000	217.2(A)
$	45 1,2-Dichloroethane-d4	102	7.382	7.382	(0.934)	66059	30.0000	30.71(Q)
	52 Benzene	78	7.648	7.648	(0.968)	7326315	200.000	210.2(A)
	54 tert-Amyl Methyl Ether	73	7.835	7.835	(0.991)	6412219	200.000	209.3(A)
	46 1,2-Dichloroethane	62	7.481	7.481	(0.946)	3464135	200.000	198.5
	37 2,2-Dichloropropane	77	6.575	6.575	(0.832)	2737321	200.000	193.9
	48 1,1-Dichloropropene	75	7.491	7.491	(0.948)	2682302	200.000	203.5(AQ)
	58 Trichloroethene	95	8.396	8.396	(1.062)	1893849	200.000	208.9(A)
	62 1,4-Dioxane	88	8.613	8.613	(1.090)	410726	4000.00	4350(AQ)
	59 1,2-Dichloropropane	63	8.445	8.445	(1.068)	2143361	200.000	204.3(A)
	61 Dibromomethane	93	8.563	8.563	(1.083)	1345568	200.000	206.2(A)
	50 Methyl methacrylate	41	8.583	8.583	(1.086)	2698197	200.000	199.9
	63 Bromodichloromethane	83	8.622	8.622	(1.091)	2867298	200.000	209.4(A)
	64 tert-Amyl Ethyl Ether	59	8.721	8.721	(1.103)	6288830	200.000	208.4(A)
	68 2-Chloroethyl vinyl ether	63	8.986	8.986	(1.137)	2844958	400.000	426.8(A)
	71 cis-1,3-Dichloropropene	75	9.193	9.193	(1.163)	3257295	200.000	208.4(A)
	70 4-Methyl-2-pentanone	43	9.124	9.124	(1.154)	5680540	400.000	407.3(A)
$	75 Toluene-d8	98	9.597	9.597	(0.871)	920716	30.0000	31.30
	77 Toluene	92	9.666	9.666	(0.878)	4066768	200.000	208.1(A)
	76 trans-1,3-Dichloropropene	75	9.666	9.666	(0.878)	3375927	200.000	211.9(A)
	79 Ethyl methacrylate	69	9.862	9.862	(0.895)	3005734	200.000	215.9(A)
	78 1,1,2-Trichloroethane	83	9.823	9.823	(0.892)	1408709	200.000	206.5(A)

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	Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	AMOUNTS CAL-AMT (ug/L)	AMOUNTS ON-COL (ug/L)
	83 Tetrachloroethene	166	10.404	10.404	(0.945)	1580259	200.000	219.4(A)
	80 2-Hexanone	43	9.971	9.971	(0.905)	4068524	400.000	416.5(A)
	82 Dibromochloromethane	129	10.295	10.295	(0.935)	2100753	200.000	232.4(A)
	85 1,2-Dibromoethane	107	10.502	10.502	(0.954)	1875509	200.000	214.0(A)
	65 Methyl cyclohexane	83	8.780	8.780	(1.111)	2381201	200.000	212.7(A)
*	86 Chlorobenzene-d5	82	11.014	11.014	(1.000)	447386	30.0000	
	88 Chlorobenzene	112	11.053	11.053	(1.004)	4795429	200.000	216.4(A)
	89 1,1,1,2-Tetrachloroethane	131	11.093	11.093	(1.007)	1727698	200.000	220.4(A)
	87 1-Chlorohexane	91	11.024	11.024	(1.001)	2309795	200.000	195.9(A)
	90 Ethylbenzene	91	11.201	11.201	(1.017)	8399391	200.000	219.2(A)
	91 m,p-Xylene	91	11.319	11.319	(1.028)	11527839	400.000	389.6(A)
M	127 Xylene(total)	91				18128210	600.000	600.9
	93 o-Xylene	91	11.703	11.703	(1.063)	6600371	200.000	211.3(A)
	92 Styrene	104	11.673	11.673	(1.060)	5311806	200.000	217.2(A)
	95 Bromoform	173	11.782	11.782	(1.070)	1312673	200.000	261.8(A)
	125 cis-1,4-Dichloro-2-butene	75	11.860	11.860	(0.885)	822324	200.000	217.1(A)
	97 Isopropylbenzene	105	12.097	12.097	(1.098)	6953109	200.000	217.9(A)
$	99 Bromofluorobenzene	95	12.205	12.205	(1.108)	411154	30.0000	31.38
	96 1,1,2,2-Tetrachloroethane	83	12.028	12.028	(0.897)	2276433	200.000	205.4(A)
	81 1,3-Dichloropropane	76	10.030	10.030	(0.911)	3033966	200.000	212.4(A)
	98 1,2,3-Trichloropropane	110	12.146	12.146	(1.103)	637549	200.000	208.8(A)
	124 trans-1,4-Dichloro-2-butene	53	12.175	12.175	(0.908)	1015673	200.000	196.3
	101 n-Propylbenzene	91	12.510	12.510	(0.933)	8916039	200.000	208.2(A)
	105 1,3,5-Trimethylbenzene	105	12.687	12.687	(0.946)	6116303	200.000	211.0(A)
	108 1,2,4-Trimethylbenzene	105	13.061	13.061	(0.974)	6189029	200.000	206.4(A)
	109 sec-Butylbenzene	105	13.258	13.258	(0.989)	7059374	200.000	212.0(A)
	107 tert-Butylbenzene	119	13.022	13.022	(0.971)	5466236	200.000	210.5(A)
	110 1,3-Dichlorobenzene	146	13.347	13.347	(0.996)	3302867	200.000	211.0(A)
*	112 1,4-Dichlorobenzene-d4	152	13.406	13.406	(1.000)	383956	30.0000	(Q)
	113 1,4-Dichlorobenzene	146	13.445	13.445	(1.003)	3316157	200.000	208.6(A)
	115 n-Butylbenzene	91	13.799	13.799	(1.029)	5201674	200.000	206.7(A)
	114 1,2-Dichlorobenzene	146	13.760	13.760	(1.026)	3171762	200.000	212.5(A)
	118 1,2-Dibromo-3-chloropropane	157	14.400	14.400	(1.074)	404783	200.000	220.6(A)
	119 1,3,5-Trichlorobenzene	180	14.921	14.921	(1.113)	1947057	200.000	212.0(A)
	100 Bromobenzene	156	12.372	12.372	(0.923)	1844438	200.000	211.1(A)
	102 2-Chlorotoluene	91	12.589	12.589	(0.939)	5587977	200.000	205.6(A)
	103 4-Chlorotoluene	91	12.658	12.658	(0.944)	6499423	200.000	207.3(A)
	120 1,2,4-Trichlorobenzene	180	15.472	15.472	(1.154)	1781656	200.000	210.1(A)
	121 Naphthalene	128	15.630	15.630	(1.166)	4413536	200.000	217.3(A)
	111 p-Isopropyltoluene	119	13.396	13.396	(0.999)	5905054	200.000	211.6(A)
	122 Hexachlorobutadiene	225	15.758	15.758	(1.175)	837370	200.000	217.8(A)
	123 1,2,3-Trichlorobenzene	180	15.915	15.915	(1.187)	1543883	200.000	214.8(A)

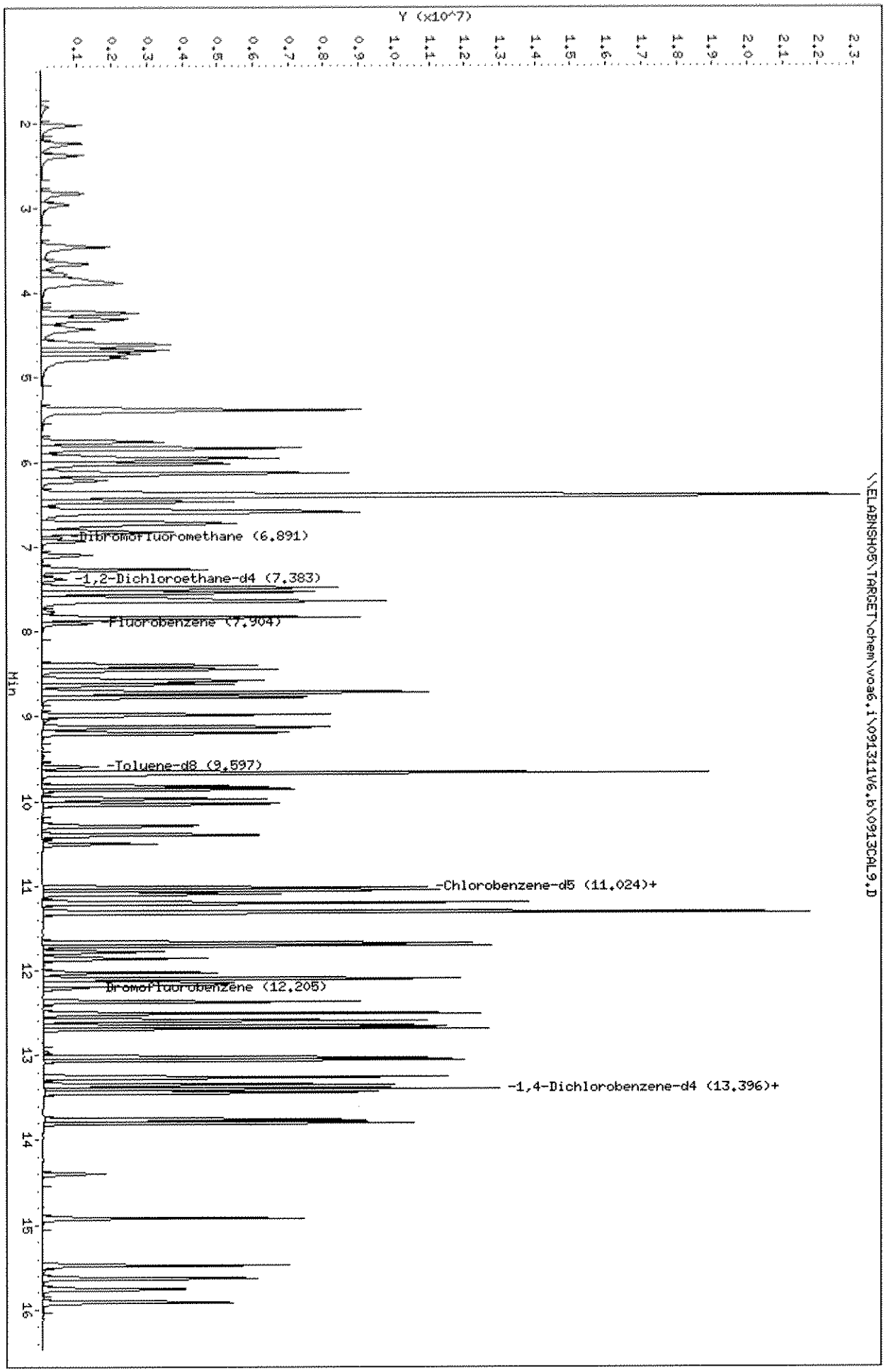
QC Flag Legend

A - Target compound detected but, quantitated amount exceeded maximum amount.

Data File: \\ELABNSH05\TARGET\chem\voa6.i\091311V6.b\0913CAL9.D
Report Date: 15-Sep-2011 09:37

QC Flag Legend

Q - Qualifier signal failed the ratio test.


Data File: \\ELABNSHO5\TARGET\chem\voa6.i\091311V6.b\0913CAL9.D
Date : 13-SEP-2011 18:30
Client ID: SEQ-CAL9
Sample Info: SEQ-CAL9;;;;;
Purge Volume: 5.0
Column phase: RTX-VRX
Instrument: voa6.i
Operator: ADH
Column diameter: 0.25
\\ELABNSHO5\TARGET\chem\voa6.i\091311V6.b\0913CAL9.D
Y (x10^7)
Min
Dibromofluoromethane (6.891)
-1,2-Dichloroethane-d4 (7.383)
-Fluorobenzene (7.904)
-Toluene-d8 (9.597)
-Chlorobenzene-d5 (11.024)+
Bromofluorobenzene (12.205)
-1,4-Dichlorobenzene-d4 (13.396)+

Data File: \\ELABNSH05\TARGET\chem\voa6.i\091311V6.b\0913ICV2.D
Report Date: 15-Sep-2011 13:07

Laboratory Name

RECOVERY REPORT

Client Name:
Sample Matrix: LIQUID
Lab Smp Id: SEQ-ICV2
Level: LOW
Data Type: MS DATA
SpikeList File: i8260.spk
Sublist File: 8260.sub
Method File: \\ELABNSH05\TARGET\chem\voa6.i\091311V6.b\VW6SUR.m
Misc Info: ;3;ICV;;;8260.sub;

Client SDG: SDGa04139
Fraction: VOA
Client Smp ID: SEQ-ICV2
Operator: ADM
SampleType: ICV
Quant Type: ISTD

	SPIKE COMPOUND	CONC ADDED ug/L	CONC RECOVERED ug/L	% RECOVERED	LIMITS
	1 Dichlorodifluorome	100.0	84.81	84.81	80-120
	2 Chloromethane	100.0	91.11	91.11	80-120
	3 Vinyl chloride	100.0	95.48	95.48	80-120
	4 Bromomethane	100.0	107.4	107.40	80-120
	5 Chloroethane	100.0	100.6	100.60	80-120
	7 Acrolein	500.0	0.0000	*	80-120
	9 Acetone	200.0	238.6	119.30	80-120
	6 Trichlorofluoromet	100.0	97.14	97.14	80-120
	10 Ethyl Ether	100.0	101.5	101.50	80-120
	14 Trichlorotrifluoro	100.0	91.49	91.49	80-120
	13 1,1-Dichloroethene	100.0	93.81	93.81	80-120
	15 t-Butyl alcohol	500.0	467.9	93.58	80-120
	43 tert-Amyl alcohol	500.0	525.3	105.06	80-120
	16 Iodomethane	100.0	101.4	101.40	80-120
	18 Acrylonitrile	500.0	0.0000	*	80-120
	17 Methyl acetate	100.0	100.2	100.20	80-120
	20 Carbon disulfide	100.0	86.50	86.50	80-120
	22 Acetonitrile	1000	1030	103.00	80-120
	19 Methylene chloride	100.0	91.96	91.96	80-120
	24 trans-1,2-Dichloro	100.0	100.6	100.60	80-120
	23 MTBE	100.0	99.48	99.48	80-120
	26 1,1-Dichloroethane	100.0	102.6	102.60	80-120
	27 Vinyl acetate	200.0	210.6	105.30	80-120
	32 Di-isopropyl ether	100.0	102.1	102.10	80-120
	33 2-Butanone	200.0	216.8	108.40	80-120
	35 cis-1,2-Dichloroet	100.0	102.4	102.40	80-120
	36 Allyl chloride	100.0	102.7	102.70	80-120
M	47 1,2-Dichloroethene	200.0	203.1	101.55	80-120
	40 Bromochloromethane	100.0	103.8	103.80	80-120
	39 Chloroform	100.0	96.42	96.42	80-120
	42 Tetrahydrofuran	100.0	94.48	94.48	80-120
	44 1,1,1-Trichloroeth	100.0	101.8	101.80	80-120
	49 Cyclohexane	100.0	90.95	90.95	80-120

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SPIKE COMPOUND	CONC ADDED ug/L	CONC RECOVERED ug/L	% RECOVERED	LIMITS
51 Carbon tetrachlori	100.0	103.0	103.00	80-120
52 Benzene	100.0	103.5	103.50	80-120
46 1,2-Dichloroethane	100.0	95.44	95.44	80-120
38 ETBE	100.0	101.2	101.20	80-120
37 2,2-Dichloropropan	100.0	91.16	91.16	80-120
48 1,1-Dichloropropen	100.0	99.48	99.48	80-120
54 tert-Amyl Methyl E	100.0	96.64	96.64	80-120
56 Propionitrile	1000	1017	101.70	80-120
58 Trichloroethene	100.0	100.7	100.70	80-120
59 1,2-Dichloropropan	100.0	101.4	101.40	80-120
61 Dibromomethane	100.0	98.23	98.23	80-120
50 Methyl methacrylat	100.0	99.22	99.22	80-120
62 1,4-Dioxane	2000	2153	107.65	80-120
63 Bromodichlorometha	100.0	96.07	96.07	80-120
68 2-Chloroethyl viny	200.0	161.1	80.55	80-120
69 Chloroprene	100.0	99.79	99.79	80-120
70 4-Methyl-2-pentano	200.0	194.8	97.40	80-120
64 tert-Amyl Ethyl Et	100.0	99.44	99.44	80-120
71 cis-1,3-Dichloropr	100.0	103.2	103.20	80-120
72 Hexane	100.0	105.0	105.00	80-120
73 Methacrylonitrile	1000	995.1	99.51	80-120
77 Toluene	100.0	103.7	103.70	80-120
76 trans-1,3-Dichloro	100.0	91.94	91.94	80-120
79 Ethyl methacrylate	100.0	104.7	104.70	80-120
80 2-Hexanone	200.0	204.6	102.30	80-120
78 1,1,2-Trichloroeth	100.0	103.7	103.70	80-120
83 Tetrachloroethene	100.0	104.0	104.00	80-120
82 Dibromochlorometha	100.0	105.9	105.90	80-120
84 Isobutyl alcohol	2000	1949	97.45	80-120
85 1,2-Dibromoethane	100.0	102.5	102.50	80-120
65 Methyl cyclohexane	100.0	96.41	96.41	80-120
88 Chlorobenzene	100.0	104.1	104.10	80-120
90 Ethylbenzene	100.0	104.6	104.60	80-120
89 1,1,1,2-Tetrachlor	100.0	104.9	104.90	80-120
87 1-Chlorohexane	100.0	93.69	93.69	80-120
91 m,p-Xylene	200.0	210.1	105.05	80-120
M 127 Xylene(total)	300.0	312.4	104.13	80-120
93 o-Xylene	100.0	102.3	102.30	80-120
92 Styrene	100.0	105.0	105.00	80-120
95 Bromoform	100.0	119.5	119.50	80-120
97 Isopropylbenzene	100.0	98.82	98.82	80-120
96 1,1,2,2-Tetrachlor	100.0	101.3	101.30	80-120
81 1,3-Dichloropropan	100.0	104.0	104.00	80-120
98 1,2,3-Trichloropro	100.0	98.71	98.71	80-120
101 n-Propylbenzene	100.0	101.3	101.30	80-120
105 1,3,5-Trimethylben	100.0	105.6	105.60	80-120
108 1,2,4-Trimethylben	100.0	101.2	101.20	80-120

Data File: \\ELABNSH05\TARGET\chem\voa6.i\091311V6.b\0913ICV2.D
Report Date: 15-Sep-2011 13:07

SPIKE COMPOUND	CONC ADDED ug/L	CONC RECOVERED ug/L	% RECOVERED	LIMITS
109 sec-Butylbenzene	100.0	102.6	102.60	80-120
107 tert-Butylbenzene	100.0	102.6	102.60	80-120
110 1,3-Dichlorobenzen	100.0	102.5	102.50	80-120
113 1,4-Dichlorobenzen	100.0	102.7	102.70	80-120
115 n-Butylbenzene	100.0	100.7	100.70	80-120
114 1,2-Dichlorobenzen	100.0	102.4	102.40	80-120
118 1,2-Dibromo-3-chlo	100.0	101.1	101.10	80-120
119 1,3,5-Trichloroben	100.0	101.6	101.60	80-120
100 Bromobenzene	100.0	102.3	102.30	80-120
102 2-Chlorotoluene	100.0	100.4	100.40	80-120
103 4-Chlorotoluene	100.0	101.4	101.40	80-120
120 1,2,4-Trichloroben	100.0	97.83	97.83	80-120
121 Naphthalene	100.0	95.22	95.22	80-120
111 p-Isopropyltoluene	100.0	96.99	96.99	80-120
122 Hexachlorobutadien	100.0	96.62	96.62	80-120
123 1,2,3-Trichloroben	100.0	96.37	96.37	80-120
124 trans-1,4-Dichloro	100.0	94.50	94.50	80-120
125 cis-1,4-Dichloro-2	100.0	114.0	114.00	80-120

SURROGATE COMPOUND	CONC ADDED ug/L	CONC RECOVERED ug/L	% RECOVERED	LIMITS
$ 41 Dibromofluorometha	30.00	29.89	99.63	85-115
$ 45 1,2-Dichloroethane	30.00	30.23	100.77	70-120
$ 75 Toluene-d8	30.00	30.47	101.57	85-120
$ 99 Bromofluorobenzene	30.00	30.30	101.00	75-120

Data File: \\ELABNSH05\TARGET\chem\voa6.i\091311V6.b\0913ICV2.D
Report Date: 15-Sep-2011 13:07

Laboratory Name

Data file : \\ELABNSH05\TARGET\chem\voa6.i\091311V6.b\0913ICV2.D
Lab Smp Id: SEQ-ICV2 Client Smp ID: SEQ-ICV2
Inj Date : 13-SEP-2011 19:51 MS Autotune Date: 13-SEP-2011 09:32
Operator : ADM Inst ID: voa6.i
Smp Info : SEQ-ICV2;;;;;
Misc Info : ;3;ICV;;;8260.sub;
Comment :
Method : \\ELABNSH05\TARGET\chem\voa6.i\091311V6.b\VW6SUR.m
Meth Date : 15-Sep-2011 09:37 amonteiro Quant Type: ISTD
Cal Date : 13-SEP-2011 18:30 Cal File: 0913CAL9.D
Als bottle: 12 QC Sample: ICV
Dil Factor: 1.00000
Integrator: HP RTE Compound Sublist: 8260.sub
Target Version: 4.04
Processing Host: TARGET02_VM

Concentration Formula: Amt * DF * 5*Uf/Vo

Name	Value	Description
DF	1.000	Dilution Factor
Uf	1.000	unit correction factor
Vo	5.000	Volume of sample purged (mL)

9/15/11 na 9/14

Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS ON-COLUMN (ug/L)	FINAL (ug/L)
* 55 Fluorobenzene	96	7.903	7.904	(1.000)	1004767	30.0000	
1 Dichlorodifluoromethane	85	2.027	2.028	(0.257)	710380	84.8099	84.81(Q)
2 Chloromethane	50	2.244	2.245	(0.284)	908832	91.1140	91.11
3 Vinyl chloride	62	2.382	2.383	(0.301)	821741	95.4777	95.48
4 Bromomethane	94	2.825	2.825	(0.357)	565899	107.392	107.4
5 Chloroethane	64	2.962	2.963	(0.375)	547819	100.639	100.6
6 Trichlorofluoromethane	101	3.455	3.455	(0.437)	1297998	97.1429	97.14
10 Ethyl Ether	59	3.888	3.888	(0.492)	725806	101.499	101.5
22 Acetonitrile	41	3.848	3.849	(0.487)	1481188	1030.53	1030
14 Trichlorotrifluoroethane	101	4.311	4.312	(0.545)	649160	91.4892	91.49
36 Allyl chloride	41	4.675	4.676	(0.592)	1605886	102.696	102.7
13 1,1-Dichloroethene	96	4.242	4.233	(0.537)	613997	93.8073	93.81(Q)
9 Acetone	43	3.779	3.780	(0.478)	963629	238.655	238.6
15 t-Butyl alcohol	59	4.409	4.410	(0.558)	493001	467.879	467.9
16 Iodomethane	142	4.439	4.430	(0.562)	1064993	101.363	101.4
20 Carbon disulfide	76	4.773	4.764	(0.604)	1926071	86.5041	86.50

Data File: \\ELABNSH05\TARGET\chem\voa6.i\091311V6.b\0913ICV2.D
Report Date: 15-Sep-2011 13:07

	Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS ON-COLUMN (ug/L)	FINAL (ug/L)
	19 Methylene chloride	84	4.724	4.725	(0.598)	751024	91.9583	91.96
	24 trans-1,2-Dichloroethene	96	5.384	5.384	(0.681)	844752	100.630	100.6
	23 MTBE	73	5.393	5.394	(0.682)	2810774	99.4856	99.48
	26 1,1-Dichloroethane	63	5.758	5.758	(0.729)	1942460	102.604	102.6
	56 Propionitrile	54	5.945	5.945	(0.752)	1744379	1017.13	1017
	27 Vinyl acetate	43	5.836	5.837	(0.738)	6038265	210.571	210.6
	69 Chloroprene	53	6.023	6.024	(0.762)	1903226	99.7894	99.79
	32 Di-isopropyl ether	45	6.132	6.132	(0.776)	4709642	102.121	102.1
	35 cis-1,2-Dichloroethene	96	6.466	6.477	(0.818)	970863	102.441	102.4(Q)
M	47 1,2-Dichloroethene(total)	96				1815615	203.071	203.1
	33 2-Butanone	43	6.210	6.221	(0.786)	1576119	216.764	216.8
	73 Methacrylonitrile	41	6.387	6.408	(0.808)	9297844	995.105	995.1
	72 Hexane	57	5.964	5.965	(0.755)	1207000	104.990	105.0
	40 Bromochloromethane	128	6.742	6.743	(0.853)	488735	103.826	103.8
	84 Isobutyl alcohol	43	6.821	6.831	(0.863)	1125898	1948.89	1949
	42 Tetrahydrofuran	42	6.929	6.939	(0.877)	371552	94.4787	94.48
	43 tert-Amyl alcohol	59	7.096	7.097	(0.898)	483058	525.332	525.3
	39 Chloroform	83	6.712	6.723	(0.849)	1685189	96.4188	96.42
	17 Methyl acetate	43	4.596	4.597	(0.582)	878544	100.209	100.2
$	41 Dibromofluoromethane	111	6.889	6.890	(0.872)	311941	29.8941	29.89
	44 1,1,1-Trichloroethane	97	7.273	7.274	(0.920)	1420984	101.840	101.8
	38 ETBE	59	6.594	6.595	(0.834)	3893568	101.258	101.2
	49 Cyclohexane	56	7.539	7.540	(0.954)	1542694	90.9481	90.95
	51 Carbon tetrachloride	117	7.608	7.609	(0.963)	1189363	103.039	103.0
$	45 1,2-Dichloroethane-d4	102	7.382	7.382	(0.934)	65766	30.2272	30.23(Q)
	52 Benzene	78	7.647	7.648	(0.968)	3648793	103.517	103.5
	54 tert-Amyl Methyl Ether	73	7.834	7.835	(0.991)	2995002	96.6385	96.64
	46 1,2-Dichloroethane	62	7.470	7.481	(0.945)	1684793	95.4454	95.44
	37 2,2-Dichloropropane	77	6.574	6.575	(0.832)	1301917	91.1579	91.16
	48 1,1-Dichloropropene	75	7.490	7.491	(0.948)	1326317	99.4764	99.48(Q)
	58 Trichloroethene	95	8.395	8.396	(1.062)	923079	100.665	100.7
	62 1,4-Dioxane	88	8.612	8.613	(1.090)	205635	2153.10	2153(Q)
	59 1,2-Dichloropropane	63	8.444	8.445	(1.068)	1076657	101.445	101.4
	61 Dibromomethane	93	8.563	8.563	(1.083)	648532	98.2321	98.23
	50 Methyl methacrylate	41	8.582	8.583	(1.086)	1354675	99.2210	99.22
	63 Bromodichloromethane	83	8.622	8.622	(1.091)	1330664	96.0694	96.07
	64 tert-Amyl Ethyl Ether	59	8.720	8.721	(1.103)	3034772	99.4401	99.44
	68 2-Chloroethyl vinyl ether	63	8.986	8.986	(1.137)	1085915	161.065	161.1
	71 cis-1,3-Dichloropropene	75	9.192	9.193	(1.163)	1632246	103.231	103.2
	70 4-Methyl-2-pentanone	43	9.124	9.124	(1.154)	2748559	194.853	194.8
$	75 Toluene-d8	98	9.596	9.597	(0.871)	912489	30.4734	30.47
	77 Toluene	92	9.665	9.666	(0.878)	2062681	103.687	103.7
	76 trans-1,3-Dichloropropene	75	9.665	9.666	(0.878)	1491101	91.9397	91.94
	79 Ethyl methacrylate	69	9.852	9.862	(0.895)	1484146	104.727	104.7
	78 1,1,2-Trichloroethane	83	9.822	9.823	(0.892)	720356	103.737	103.7
	83 Tetrachloroethene	166	10.403	10.404	(0.945)	762692	104.026	104.0
	80 2-Hexanone	43	9.970	9.971	(0.905)	2034007	204.558	204.6

Data File: \\ELABNSH05\TARGET\chem\voa6.i\091311V6.b\0913ICV2.D
Report Date: 15-Sep-2011 13:07

	Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS ON-COLUMN (ug/L)	FINAL (ug/L)
	82 Dibromochloromethane	129	10.285	10.295	(0.934)	974225	105.903	105.9
	85 1,2-Dibromoethane	107	10.501	10.502	(0.954)	913998	102.477	102.5
	65 Methyl cyclohexane	83	8.769	8.780	(1.110)	1091686	96.4082	96.41
*	86 Chlorobenzene-d5	82	11.013	11.014	(1.000)	455412	30.0000	
	88 Chlorobenzene	112	11.053	11.053	(1.004)	2348661	104.110	104.1
	89 1,1,1,2-Tetrachloroethane	131	11.092	11.093	(1.007)	837257	104.923	104.9
	87 1-Chlorohexane	91	11.023	11.024	(1.001)	1124334	93.6861	93.69
	90 Ethylbenzene	91	11.200	11.201	(1.017)	4080267	104.585	104.6
	91 m,p-Xylene	91	11.308	11.319	(1.027)	6328023	210.084	210.1(A)
M	127 Xylene(total)	91				9581043	312.395	312.4
	93 o-Xylene	91	11.702	11.703	(1.063)	3253020	102.311	102.3
	92 Styrene	104	11.673	11.673	(1.060)	2613610	104.998	105.0
	95 Bromoform	173	11.781	11.782	(1.070)	609896	119.496	119.5
	125 cis-1,4-Dichloro-2-butene	75	11.860	11.860	(0.885)	430126	114.000	114.0
	97 Isopropylbenzene	105	12.096	12.097	(1.098)	3209309	98.8163	98.82
$	99 Bromofluorobenzene	95	12.204	12.205	(1.108)	404145	30.3057	30.30
	96 1,1,2,2-Tetrachloroethane	83	12.027	12.028	(0.897)	1118566	101.327	101.3
	81 1,3-Dichloropropane	76	10.029	10.030	(0.911)	1511694	103.993	104.0
	98 1,2,3-Trichloropropane	110	12.145	12.146	(1.103)	306806	98.7099	98.71
	124 trans-1,4-Dichloro-2-butene	53	12.165	12.175	(0.907)	487044	94.4963	94.50
	101 n-Propylbenzene	91	12.509	12.510	(0.933)	4319802	101.276	101.3
	105 1,3,5-Trimethylbenzene	105	12.686	12.687	(0.946)	3051073	105.656	105.6
	108 1,2,4-Trimethylbenzene	105	13.051	13.061	(0.974)	3022841	101.230	101.2
	109 sec-Butylbenzene	105	13.257	13.258	(0.989)	3403778	102.651	102.6
	107 tert-Butylbenzene	119	13.021	13.022	(0.971)	2652873	102.553	102.6
	110 1,3-Dichlorobenzene	146	13.346	13.347	(0.996)	1598624	102.528	102.5
*	112 1,4-Dichlorobenzene-d4	152	13.405	13.406	(1.000)	382446	30.0000	(Q)
	113 1,4-Dichlorobenzene	146	13.434	13.445	(1.002)	1627147	102.742	102.7
	115 n-Butylbenzene	91	13.799	13.799	(1.029)	2524390	100.721	100.7
	114 1,2-Dichlorobenzene	146	13.759	13.760	(1.026)	1522368	102.419	102.4
	118 1,2-Dibromo-3-chloropropane	157	14.399	14.400	(1.074)	184789	101.114	101.1
	119 1,3,5-Trichlorobenzene	180	14.921	14.921	(1.113)	929156	101.564	101.6
	100 Bromobenzene	156	12.371	12.372	(0.923)	890001	102.270	102.3
	102 2-Chlorotoluene	91	12.588	12.589	(0.939)	2719035	100.424	100.4
	103 4-Chlorotoluene	91	12.647	12.658	(0.943)	3165560	101.367	101.4
	120 1,2,4-Trichlorobenzene	180	15.472	15.472	(1.154)	826295	97.8271	97.83
	121 Naphthalene	128	15.629	15.630	(1.166)	1926497	95.2221	95.22
	111 p-Isopropyltoluene	119	13.395	13.396	(0.999)	2695339	96.9895	96.99
	122 Hexachlorobutadiene	225	15.757	15.758	(1.175)	370046	96.6153	96.62
	123 1,2,3-Trichlorobenzene	180	15.915	15.915	(1.187)	689801	96.3683	96.37

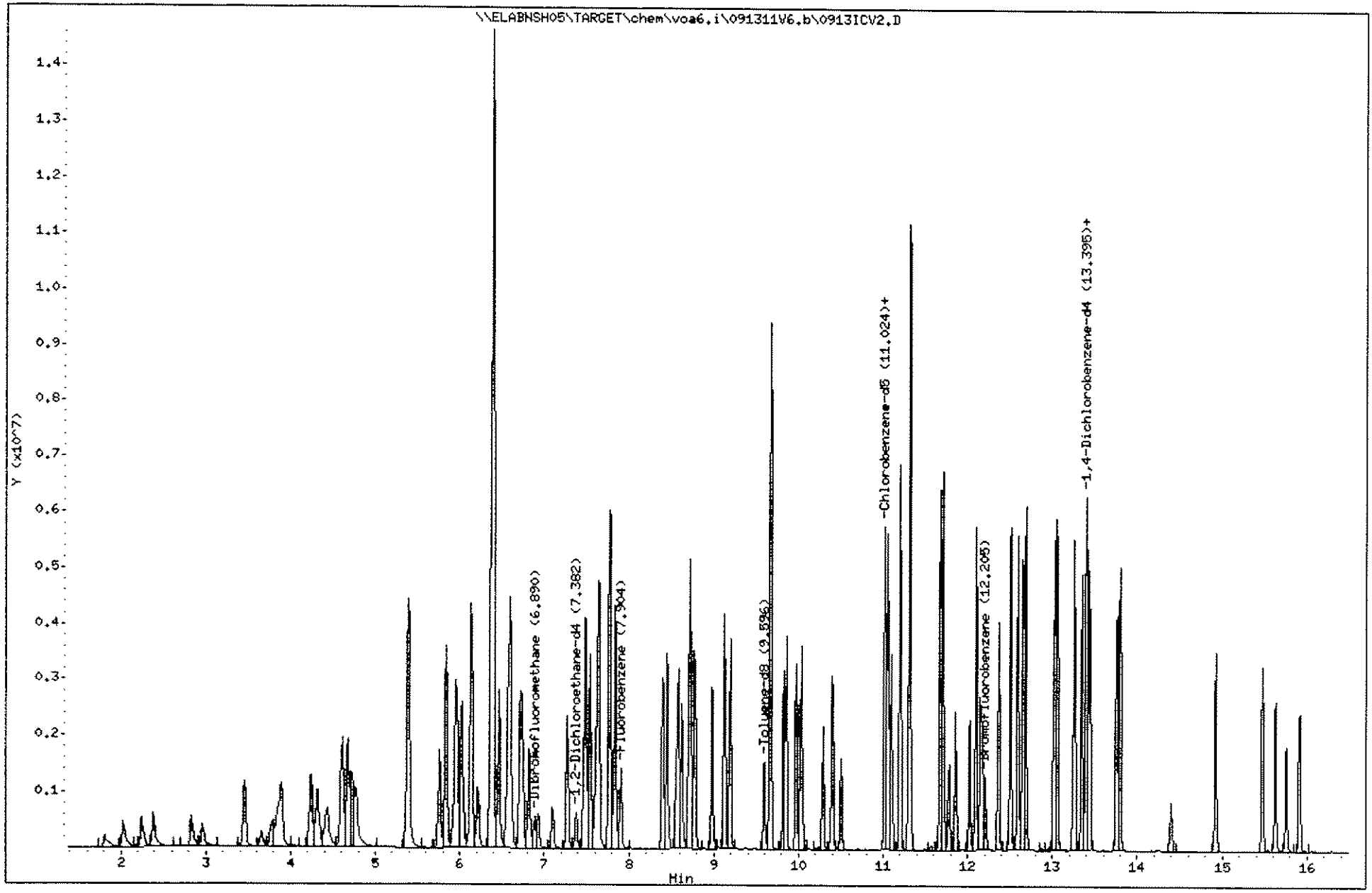
QC Flag Legend

A - Target compound detected but, quantitated amount exceeded maximum amount.
Q - Qualifier signal failed the ratio test.

Data File: \\ELABNSH05\TARGET\chem\voa6.i\091311V6.b\0913ICV2.D
Date : 13-SEP-2011 19:51
Client ID: SEQ-ICV2
Sample Info: SEQ-ICV2;;;;;
Purge Volume: 5.0
Column phase: RTX-VRX

Instrument: voa6.i

Operator: ADM
Column diameter: 0.25



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1109191

Sequence Name: C:\HPCHEM\1\SEQUENCE\092211V5.S
Comment: 8260B
Operator: ADM
Data Path: C:\HPCHEM\1\DATA\092211V5\
Pre-Seq Cmd:
Post-Seq Cmd:

MG 9/27/11

8281

Method Sections To Run
(X) Full Method
( ) Reprocessing Only

On A Barcode Mismatch
(X) Inject Anyway
( ) Don't Inject

Line	Type	Vial	DataFile	Method	Sample Name
1	Blank	48	PREBLK1	VS5SUR	BLANK;;;;;
2	Blank	49	PREBLK2	VS5SUR	BLANK;;;;;
3	Blank	50	PREBLK3	VS5SUR	BLANK;;;;;
4	Sample	51	0922TU1	VS5SUR	SEQ-TUN1;;;;;
5	Blank	1	BLANK2	VS5SUR	BLANK;;;;;
6	Sample	2	0922CAL1	VS5SUR	SEQ-CAL1;;;;;
7	Sample	3	0922CAL2	VS5SUR	SEQ-CAL2;;;;;
8	Sample	4	0922CAL3	VS5SUR	SEQ-CAL3;;;;;
9	Sample	5	0922CAL4	VS5SUR	SEQ-CAL4;;;;;
10	Sample	6	0922CAL5	VS5SUR	SEQ-CAL5;;;;;
11	Sample	7	0922CAL6	VS5SUR	SEQ-CAL6;;;;;
12	Sample	8	0922CAL7	VS5SUR	SEQ-CAL7;;;;;
13	Sample	9	0922CAL8	VS5SUR	SEQ-CAL8;;;;;
14	Blank	10	BLANK3	VS5SUR	BLANK;;;;;
15	Sample	11	0922ICV1	VS5SUR	SEQ-ICV1;;;;;
16	Sample	12	0922ICV2	VS5SUR	SEQ-ICV2;;;;;

Soil
ical

Report Date: 23-Sep-2011 06:50

Calibration History

Method : \\ELABNSH05\TARGET\chem\voa5.i\092211V5.b\VS5SUR.m
Start Cal Date: 22-SEP-2011 14:24
End Cal Date : 22-SEP-2011 17:30
Last Cal Level: 1
Last Cal Type : Initial Calibration

Initial Calibration

Injection Date	Sublist	Calibration File
Cal Level: 1 , Cal Amount: 2.000		
22-SEP-2011 14:24	8260	0922CAL1.D
Cal Level: 2 , Cal Amount: 5.000		
22-SEP-2011 14:51	8260	0922CAL2.D
Cal Level: 3 , Cal Amount: 10.00		
22-SEP-2011 15:17	8260	0922CAL3.D
Cal Level: 4 , Cal Amount: 20.00		
22-SEP-2011 15:44	8260	0922CAL4.D
Cal Level: 5 , Cal Amount: 40.00		
22-SEP-2011 16:10	8260	0922CAL5.D
Cal Level: 6 , Cal Amount: 100.0		
22-SEP-2011 16:37	8260	0922CAL6.D
Cal Level: 7 , Cal Amount: 150.0		
22-SEP-2011 17:03	8260	0922CAL7.D
Cal Level: 8 , Cal Amount: 200.0		
22-SEP-2011 17:30	8260	0922CAL8.D

Continuing Calibration

22-SEP-2011 16:37	8260	0922CAL6.D

Data File: \\ELABNSH05\TARGET\chem\voa5.i\092211V5.b\0922TU1.D

Date : 22-SEP-2011 13:31

Client ID: SEQ-TUN1

Instrument: voa5.i

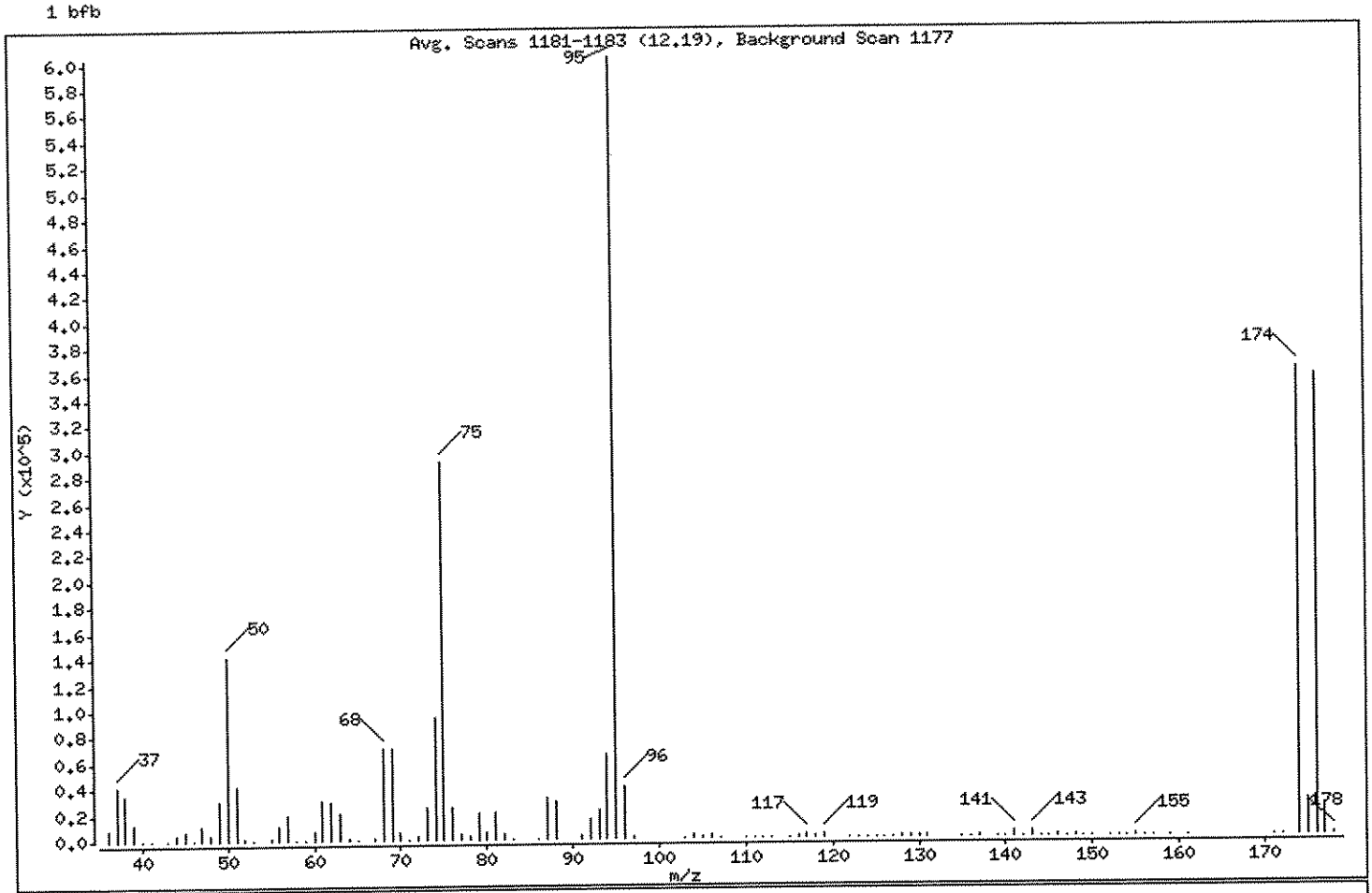
Sample Info: SEQ-TUN1;;;;;

Operator: ADM

Column phase: RTX-VRX

Column diameter: 0.25

1 bfb



m/e	ION ABUNDANCE CRITERIA	% RELATIVE ABUNDANCE
95	Base Peak, 100% relative abundance	100.00
50	15.00 - 40.00% of mass 95	23.41
75	30.00 - 60.00% of mass 95	48.37
96	5.00 - 9.00% of mass 95	6.57
173	Less than 2.00% of mass 174	0.00 (0.00)
174	Greater than 50.00% of mass 95	59.76
175	5.00 - 9.00% of mass 174	4.59 (7.68)
176	95.00 - 101.00% of mass 174	58.89 (98.53)
177	5.00 - 9.00% of mass 176	3.94 (6.69)

09/23/11

MG/23/11

Data File: \\ELABNSH05\TARGET\chem\voa5.i\092211V5.b\0922TU1.D

Date : 22-SEP-2011 13:31

Client ID: SEQ-TUN1 Instrument: voa5.i

Sample Info: SEQ-TUN1;;;;;

Operator: ADM

Column phase: RTX-VRX Column diameter: 0.25

Data File: 0922TU1.D

Spectrum: Avg. Scans 1181-1183 (12.19), Background Scan 1177

Location of Maximum: 95.00

Number of points: 109

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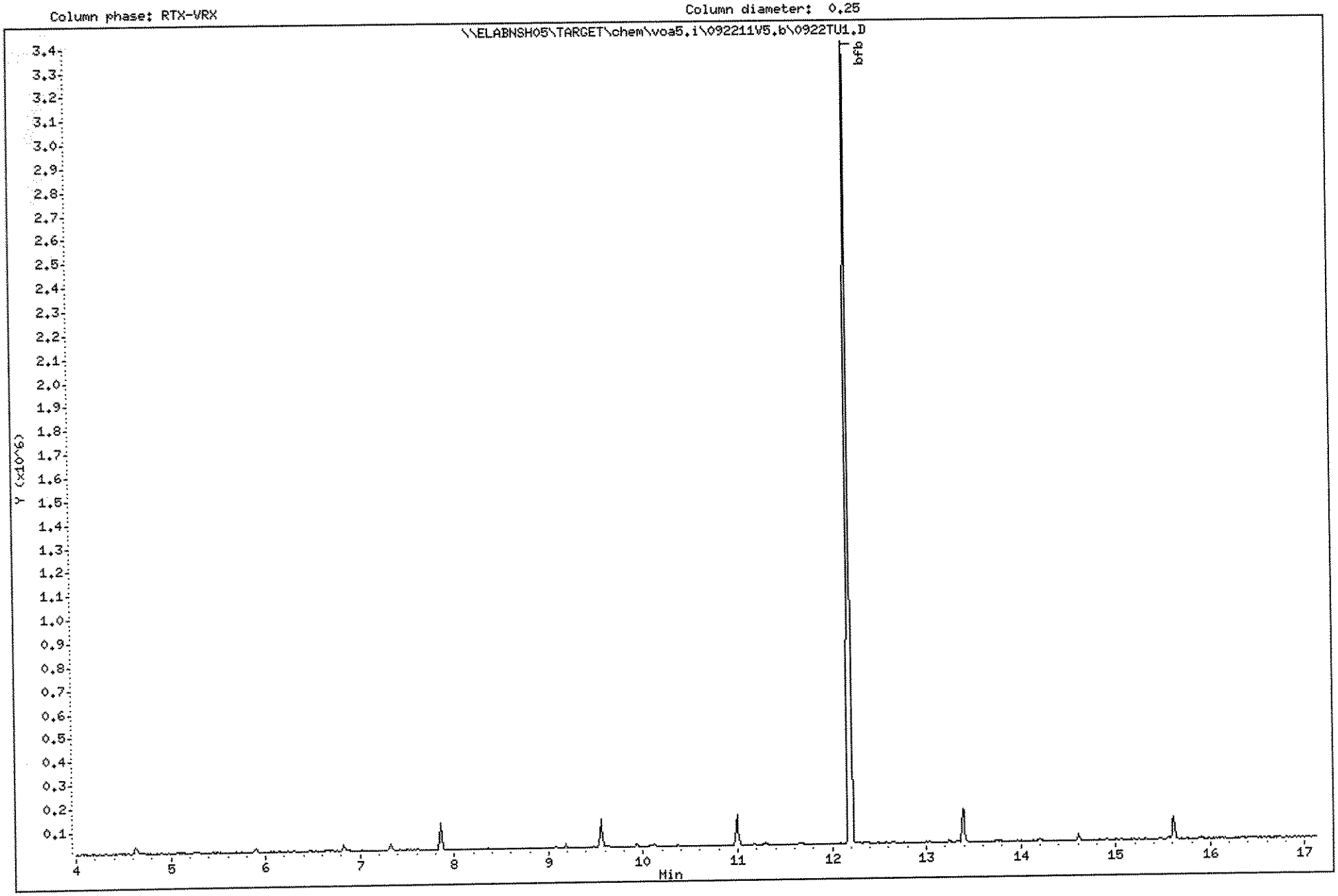
36.00	7835	67.00	1879	104.00	2555	141.00	4190
37.00	41248	68.00	71368	105.00	846	142.00	585
38.00	34352	69.00	70096	106.00	2306	143.00	4141
39.00	12913	70.00	4862	107.00	591	144.00	345
40.00	63	71.00	141	110.00	260	145.00	384
41.00	89	72.00	3197	111.00	428	146.00	736
43.00	440	73.00	24808	112.00	458	147.00	167
44.00	3576	74.00	94528	113.00	258	148.00	1003
45.00	7262	75.00	291968	115.00	516	149.00	272
46.00	461	76.00	24896	116.00	1742	150.00	384
47.00	11323	77.00	3994	117.00	2938	152.00	187
48.00	4601	78.00	2886	118.00	1904	153.00	277
49.00	30960	79.00	20704	119.00	2517	154.00	201
50.00	141312	80.00	4867	122.00	71	155.00	949
51.00	41912	81.00	20672	123.00	51	156.00	127
52.00	1632	82.00	3692	124.00	357	157.00	628
53.00	59	83.00	445	125.00	155	159.00	374
55.00	1765	86.00	429	126.00	158	161.00	523
56.00	10522	87.00	32032	127.00	87	171.00	120
57.00	19440	88.00	29832	128.00	1493	172.00	234
58.00	630	91.00	2178	129.00	792	174.00	360768
59.00	72	92.00	15499	130.00	1631	175.00	27720
60.00	6269	93.00	22312	131.00	732	176.00	355456
61.00	30328	94.00	65800	135.00	634	177.00	23768
62.00	29136	95.00	603648	136.00	59	178.00	739
63.00	21152	96.00	39680	137.00	1014		
64.00	1765	97.00	1022	139.00	156		
65.00	284	103.00	284	140.00	375		

Data File: \\ELABNSH05\TARGET\chem\voa5.i\092211V5.b\0922TU1.D
Date : 22-SEP-2011 13:31
Client ID: SEQ-TUN1
Sample Info: SEQ-TUN1;;;;;

Instrument: voa5.i

Operator: ADM
Column diameter: 0.25

Column phase: RTX-VRX



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1109191

Data File: \\ELABNSH05\TARGET\chem\voa5.i\092211V5.b\0922CAL1.D
Report Date: 23-Sep-2011 07:06

Laboratory Name

Data file : \\ELABNSH05\TARGET\chem\voa5.i\092211V5.b\0922CAL1.D
Lab Smp Id: SEQ-CAL1 Client Smp ID: SEQ-CAL1
Inj Date : 22-SEP-2011 14:24
Operator : ADM Inst ID: voa5.i
Smp Info : SEQ-CAL1;;;;;
Misc Info : ;;;;;8260.sub;
Comment :
Method : \\ELABNSH05\TARGET\chem\voa5.i\092211V5.b\VS5SUR.m
Meth Date : 23-Sep-2011 07:06 amonteiro Quant Type: ISTD
Cal Date : 22-SEP-2011 14:24 Cal File: 0922CAL1.D
Als bottle: 2 Calibration Sample, Level: 1
Dil Factor: 1.00000
Integrator: HP RTE Compound Sublist: 8260.sub
Target Version: 4.04
Processing Host: TARGET02_VM

Concentration Formula: Amt * DF * 5*Uf/(Ws*(Solids/100))

Name	Value	Description
DF	1.000	Dilution Factor
Uf	1.000	unit correction factor
Ws	5.000	Weight of sample extracted (g)
Solids	100.000	Percent Solids

M9/23/11

09/23/11

Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	AMOUNTS CAL-AMT (ug/Kg)	AMOUNTS ON-COL (ug/Kg)
* 55 Fluorobenzene	96	7.855	7.855	(1.000)	819266	30.0000	
1 Dichlorodifluoromethane	85	1.974	1.974	(0.251)	14191	2.00000	2.092
2 Chloromethane	50	2.191	2.191	(0.279)	18435	2.00000	2.173
3 Vinyl chloride	62	2.329	2.329	(0.297)	9462	2.00000	2.077
4 Bromomethane	94	2.762	2.762	(0.352)	7134	2.00000	2.190
5 Chloroethane	64	2.890	2.890	(0.368)	9666	2.00000	2.102
7 Trichlorofluoromethane	101	3.383	3.383	(0.431)	22020	2.00000	1.958(a)
11 Ethyl Ether	59	3.796	3.796	(0.483)	13126	2.00000	1.970
10 Acetonitrile	41	3.757	3.757	(0.478)	26755	20.0000	22.72
13 Trichlorotrifluoroethane	101	4.230	4.230	(0.539)	15879	2.00000	1.962
8 Acrolein	56	3.570	3.570	(0.455)	7702	10.0000	7.815
19 Allyl chloride	76	4.594	4.594	(0.585)	7476	2.00000	1.756
12 1,1-Dichloroethene	96	4.151	4.151	(0.529)	13951	2.00000	1.889
9 Acetone	43	3.678	3.678	(0.468)	12984	4.00000	5.133(a)
14 t-Butyl alcohol	59	4.289	4.289	(0.546)	6507	10.0000	9.711

Data File: \\ELABNSH05\TARGET\chem\voa5.i\092211V5.b\0922CAL1.D
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	Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	AMOUNTS CAL-AMT (ug/Kg)	AMOUNTS ON-COL (ug/Kg)
	16 Iodomethane	142	4.358	4.358	(0.555)	2300	2.00000	7.666(T)
	22 Carbon disulfide	76	4.693	4.693	(0.597)	59086	2.00000	2.029
	20 Methylene chloride	84	4.643	4.643	(0.591)	28192	2.00000	2.958
	18 Acrylonitrile	53	4.506	4.506	(0.574)	25070	10.0000	10.16
	24 trans-1,2-Dichloroethene	96	5.313	5.313	(0.676)	15621	2.00000	1.988
	23 MTBE	73	5.303	5.303	(0.675)	35757	2.00000	1.976
	26 1,1-Dichloroethane	63	5.688	5.688	(0.724)	31901	2.00000	1.893
	28 Propionitrile	54	5.855	5.855	(0.745)	18412	20.0000	20.69
	27 Vinyl acetate	43	5.757	5.757	(0.733)	53960	4.00000	4.012(a)
	30 Chloroprene	53	5.954	5.954	(0.758)	25413	2.00000	1.888
	33 Di-isopropyl ether	45	6.062	6.062	(0.772)	70382	2.00000	1.933
	37 cis-1,2-Dichloroethene	96	6.397	6.397	(0.814)	15414	2.00000	1.857
M	6 1,2-Dichloroethene(total)	96				31035	4.00000	3.845
	34 2-Butanone	43	6.131	6.131	(0.781)	18857	4.00000	4.237(a)
	36 Methacrylonitrile	41	6.298	6.298	(0.802)	99490	20.0000	21.84
	29 Hexane	57	5.904	5.904	(0.752)	30762	2.00000	2.145
	42 Bromochloromethane	128	6.682	6.682	(0.851)	6551	2.00000	1.942(a)
	43 Isobutyl alcohol	42	6.742	6.742	(0.858)	8201	40.0000	40.65
	45 Tetrahydrofuran	42	6.870	6.870	(0.875)	7538	2.00000	3.181
	46 tert-Amyl alcohol	59	7.027	7.027	(0.895)	4722	10.0000	8.870
	41 Chloroform	83	6.653	6.653	(0.847)	29099	2.00000	2.032
	17 Methyl acetate	43	4.496	4.496	(0.572)	13103	2.00000	2.102
$	44 Dibromofluoromethane	111	6.830	6.830	(0.870)	245850	35.0000	35.04
	47 1,1,1-Trichloroethane	97	7.214	7.214	(0.918)	19172	2.00000	1.871
	40 ETBE	59	6.525	6.525	(0.831)	49283	2.00000	1.964
	51 Cyclohexane	56	7.490	7.490	(0.954)	32081	2.00000	2.023
	52 Carbon tetrachloride	117	7.559	7.559	(0.962)	15108	2.00000	1.938
$	48 1,2-Dichloroethane-d4	102	7.333	7.333	(0.934)	50484	35.0000	35.02
	53 Benzene	78	7.589	7.589	(0.966)	63625	2.00000	2.018
	54 tert-Amyl Methyl Ether	73	7.786	7.786	(0.991)	40270	2.00000	1.996
	49 1,2-Dichloroethane	62	7.421	7.421	(0.945)	20568	2.00000	2.064
	39 2,2-Dichloropropane	77	6.505	6.505	(0.828)	21117	2.00000	1.976
	50 1,1-Dichloropropene	75	7.441	7.441	(0.947)	23410	2.00000	2.006
	56 Trichloroethene	95	8.357	8.357	(1.064)	17893	2.00000	2.078
	60 1,4-Dioxane	88	8.564	8.564	(1.090)	2675	40.0000	43.34
	57 1,2-Dichloropropane	63	8.406	8.406	(1.070)	18836	2.00000	1.954
	58 Dibromomethane	93	8.515	8.515	(1.084)	9489	2.00000	1.944
	59 Methyl methacrylate	41	7.490	7.490	(0.954)	20960	2.00000	2.084
	61 Bromodichloromethane	83	8.584	8.584	(1.093)	19299	2.00000	1.863
	62 tert-Amyl Ethyl Ether	59	8.672	8.672	(1.104)	38097	2.00000	1.944
	70 cis-1,3-Dichloropropene	75	9.155	9.155	(1.166)	22079	2.00000	1.862
	69 4-Methyl-2-pentanone	43	9.086	9.086	(1.157)	30626	4.00000	4.056(Ta)
$	71 Toluene-d8	98	9.559	9.559	(0.869)	810645	35.0000	34.58
	74 Toluene	92	9.638	9.638	(0.876)	35788	2.00000	2.115
	73 trans-1,3-Dichloropropene	75	9.638	9.638	(0.876)	20137	2.00000	1.972
	76 Ethyl methacrylate	69	9.825	9.825	(0.893)	16085	2.00000	1.865
	75 1,1,2-Trichloroethane	83	9.795	9.795	(0.891)	10331	2.00000	1.912

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Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	AMOUNTS CAL-AMT (ug/Kg)	AMOUNTS ON-COL (ug/Kg)
80 Tetrachloroethene	166	10.376	10.376	(0.944)	11905	2.00000	1.957
77 2-Hexanone	43	9.933	9.933	(0.903)	23100	4.00000	4.257(a)
79 Dibromochloromethane	129	10.258	10.258	(0.933)	11256	2.00000	1.847
81 1,2-Dibromoethane	107	10.475	10.475	(0.953)	10726	2.00000	1.854
63 Methyl cyclohexane	83	8.741	8.741	(1.113)	24728	2.00000	1.904
* 82 Chlorobenzene-d5	82	10.997	10.997	(1.000)	356770	30.0000	
84 Chlorobenzene	112	11.026	11.026	(1.003)	32270	2.00000	1.952
85 1,1,1,2-Tetrachloroethane	131	11.076	11.076	(1.007)	9710	2.00000	1.826
83 1-Chlorohexane	91	10.997	10.997	(1.000)	21775	2.00000	2.089
86 Ethylbenzene	91	11.174	11.174	(1.016)	60045	2.00000	1.938
87 m,p-Xylene	91	11.292	11.292	(1.027)	89431	4.00000	4.173
M 119 Xylene(total)	91				132744	6.00000	6.127
89 o-Xylene	91	11.686	11.686	(1.063)	43313	2.00000	1.954
88 Styrene	104	11.657	11.657	(1.060)	29663	2.00000	1.745
90 Bromoform	173	11.755	11.755	(1.069)	6275	2.00000	1.766
91 cis-1,4-Dichloro-2-butene	53	11.834	11.834	(0.884)	3232	2.00000	2.062(a)
94 Isopropylbenzene	105	12.080	12.080	(1.099)	42637	2.00000	1.770
$ 97 Bromofluorobenzene	95	12.189	12.189	(1.108)	342431	35.0000	34.61
93 1,1,2,2-Tetrachloroethane	83	12.002	12.002	(0.896)	13901	2.00000	2.244
78 1,3-Dichloropropane	76	10.002	10.002	(0.910)	18402	2.00000	1.746
95 1,2,3-Trichloropropane	110	12.130	12.130	(1.103)	3003	2.00000	1.887
96 trans-1,4-Dichloro-2-butene	53	12.149	12.149	(0.907)	3242	2.00000	1.948(a)
99 n-Propylbenzene	91	12.494	12.494	(0.933)	56091	2.00000	1.944
102 1,3,5-Trimethylbenzene	105	12.671	12.671	(0.946)	31161	2.00000	1.897
106 1,2,4-Trimethylbenzene	105	13.036	13.036	(0.974)	28180	2.00000	1.853
107 sec-Butylbenzene	105	13.243	13.243	(0.989)	39299	2.00000	1.741
105 tert-Butylbenzene	119	13.006	13.006	(0.971)	25176	2.00000	1.734
108 1,3-Dichlorobenzene	146	13.331	13.331	(0.996)	17901	2.00000	2.005
* 110 1,4-Dichlorobenzene-d4	152	13.390	13.390	(1.000)	215768	30.0000	
111 1,4-Dichlorobenzene	146	13.420	13.420	(1.002)	17587	2.00000	2.074
113 n-Butylbenzene	91	13.784	13.784	(1.029)	27959	2.00000	1.751
112 1,2-Dichlorobenzene	146	13.745	13.745	(1.026)	16001	2.00000	1.960
117 1,2-Dibromo-3-chloropropane	157	14.385	14.385	(1.074)	1569	2.00000	1.954(a)
118 1,3,5-Trichlorobenzene	180	14.907	14.907	(1.113)	8509	2.00000	1.732
98 Bromobenzene	156	12.356	12.356	(0.923)	11654	2.00000	2.123
100 2-Chlorotoluene	91	12.573	12.573	(0.939)	36117	2.00000	2.010
101 4-Chlorotoluene	91	12.632	12.632	(0.943)	37448	2.00000	1.964
120 1,2,4-Trichlorobenzene	180	15.459	15.459	(1.154)	7852	2.00000	1.890
121 Naphthalene	128	15.617	15.617	(1.166)	45553	2.00000	6.144
109 p-Isopropyltoluene	119	13.381	13.381	(0.999)	26004	2.00000	1.763
122 Hexachlorobutadiene	225	15.745	15.745	(1.176)	5524	2.00000	1.712
123 1,2,3-Trichlorobenzene	180	15.902	15.902	(1.188)	7675	2.00000	2.033

QC Flag Legend

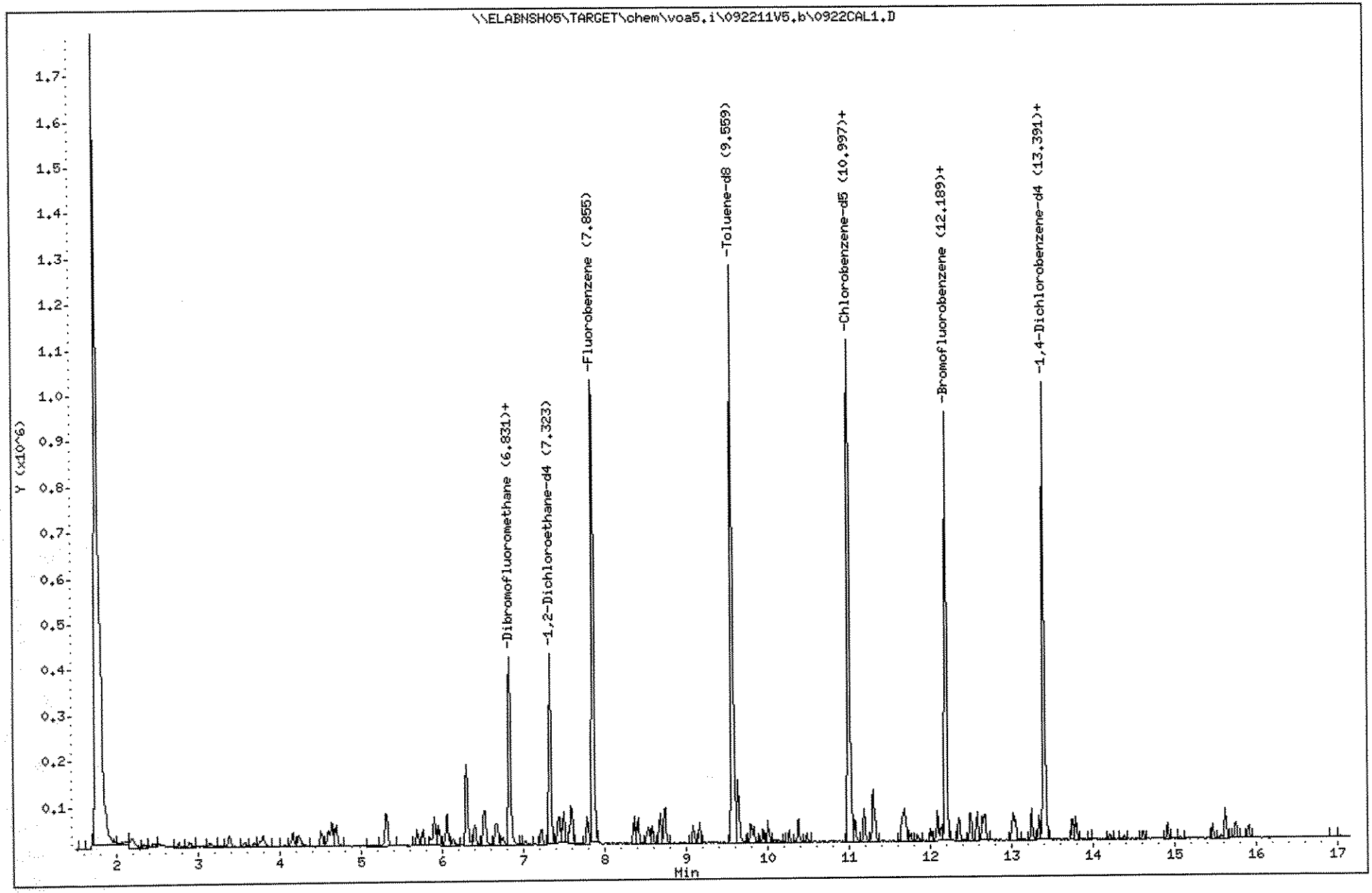
T - Target compound detected outside RT window.
a - Target compound detected but, quantitated amount Below Limit Of Quantitation(BLOQ).

Data File: \\ELABNSH05\TARGET\chem\voa5.i\092211V5.b\0922CAL1.D
Date : 22-SEP-2011 14:24
Client ID: SEQ-CAL1
Sample Info: SEQ-CAL1;;;;;

Column phase: RTX-VRX

Instrument: voa5.i

Operator: ADM
Column diameter: 0.25



196

1109191

Data File: \\ELABNSH05\TARGET\chem\voa5.i\092211V5.b\0922CAL2.D
Report Date: 23-Sep-2011 07:07

Laboratory Name

Data file : \\ELABNSH05\TARGET\chem\voa5.i\092211V5.b\0922CAL2.D
Lab Smp Id: SEQ-CAL2 Client Smp ID: SEQ-CAL2
Inj Date : 22-SEP-2011 14:51
Operator : ADM Inst ID: voa5.i
Smp Info : SEQ-CAL2;;;;;
Misc Info : ;;;;;8260.sub;
Comment :
Method : \\ELABNSH05\TARGET\chem\voa5.i\092211V5.b\VS5SUR.m
Meth Date : 23-Sep-2011 07:07 amonteiro Quant Type: ISTD
Cal Date : 22-SEP-2011 14:24 Cal File: 0922CAL1.D
Als bottle: 3 Calibration Sample, Level: 2
Dil Factor: 1.00000
Integrator: HP RTE Compound Sublist: 8260.sub
Target Version: 4.04
Processing Host: TARGET02_VM

Concentration Formula: Amt * DF * 5*Uf/(Ws*(Solids/100))

Name	Value	Description
DF	1.000	Dilution Factor
Uf	1.000	unit correction factor
Ws	5.000	Weight of sample extracted (g)
Solids	100.000	Percent Solids

mg 9/23/11

Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	AMOUNTS CAL-AMT (ug/Kg)	AMOUNTS ON-COL (ug/Kg)
* 55 Fluorobenzene	96	7.865	7.865	(1.000)	809194	30.0000	
1 Dichlorodifluoromethane	85	1.974	1.974	(0.251)	32860	5.00000	4.904
2 Chloromethane	50	2.181	2.181	(0.277)	39542	5.00000	4.718
3 Vinyl chloride	62	2.319	2.319	(0.295)	20427	5.00000	4.539
4 Bromomethane	94	2.762	2.762	(0.351)	14297	5.00000	4.444
5 Chloroethane	64	2.890	2.890	(0.368)	22962	5.00000	5.056
7 Trichlorofluoromethane	101	3.383	3.383	(0.430)	54305	5.00000	4.890
11 Ethyl Ether	59	3.797	3.797	(0.483)	30786	5.00000	4.678
10 Acetonitrile	41	3.767	3.767	(0.479)	58794	50.0000	50.54
13 Trichlorotrifluoroethane	101	4.230	4.230	(0.538)	39084	5.00000	4.889
8 Acrolein	56	3.570	3.570	(0.454)	19010	25.0000	19.53
19 Allyl chloride	76	4.595	4.595	(0.584)	20367	5.00000	4.842
12 1,1-Dichloroethene	96	4.161	4.161	(0.529)	33488	5.00000	4.591
9 Acetone	43	3.679	3.679	(0.468)	25916	10.0000	10.37
14 t-Butyl alcohol	59	4.299	4.299	(0.547)	14089	25.0000	21.29

Data File: \\ELABNSH05\TARGET\chem\voa5.i\092211V5.b\0922CAL2.D
Report Date: 23-Sep-2011 07:07

	Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	AMOUNTS CAL-AMT (ug/Kg)	AMOUNTS ON-COL (ug/Kg)
	16 Iodomethane	142	4.358	4.358	(0.554)	6370	5.00000	8.336
	22 Carbon disulfide	76	4.693	4.693	(0.597)	142566	5.00000	4.957
	20 Methylene chloride	84	4.644	4.644	(0.590)	53857	5.00000	5.721
	18 Acrylonitrile	53	4.516	4.516	(0.574)	57801	25.0000	23.72
	24 trans-1,2-Dichloroethene	96	5.314	5.314	(0.676)	38219	5.00000	4.924
	23 MTBE	73	5.304	5.304	(0.674)	87206	5.00000	4.879
	26 1,1-Dichloroethane	63	5.688	5.688	(0.723)	83982	5.00000	5.047
	28 Propionitrile	54	5.846	5.846	(0.743)	40565	50.0000	46.15
	27 Vinyl acetate	43	5.757	5.757	(0.732)	125917	10.0000	9.478
	30 Chloroprene	53	5.954	5.954	(0.757)	63866	5.00000	4.805
	33 Di-isopropyl ether	45	6.052	6.052	(0.770)	176725	5.00000	4.914
	37 cis-1,2-Dichloroethene	96	6.397	6.397	(0.813)	42182	5.00000	5.146
M	6 1,2-Dichloroethene(total)	96				80401	10.0000	10.07
	34 2-Butanone	43	6.131	6.131	(0.780)	45274	10.0000	10.30
	36 Methacrylonitrile	41	6.299	6.299	(0.801)	236267	50.0000	52.51
	29 Hexane	57	5.895	5.895	(0.750)	69827	5.00000	4.930
	42 Bromochloromethane	128	6.683	6.683	(0.850)	16986	5.00000	5.097
	43 Isobutyl alcohol	42	6.742	6.742	(0.857)	17592	100.000	88.29
	45 Tetrahydrofuran	42	6.860	6.860	(0.872)	13016	5.00000	5.562
	46 tert-Amyl alcohol	59	7.028	7.028	(0.894)	10738	25.0000	20.42
	41 Chloroform	83	6.653	6.653	(0.846)	70965	5.00000	5.018
	17 Methyl acetate	43	4.496	4.496	(0.572)	29935	5.00000	4.862
$	44 Dibromofluoromethane	111	6.831	6.831	(0.869)	276580	40.0000	39.91
	47 1,1,1-Trichloroethane	97	7.215	7.215	(0.917)	49348	5.00000	4.876
	40 ETBE	59	6.525	6.525	(0.830)	122577	5.00000	4.945
	51 Cyclohexane	56	7.491	7.491	(0.952)	76749	5.00000	4.899
	52 Carbon tetrachloride	117	7.559	7.559	(0.961)	35834	5.00000	4.653
$	48 1,2-Dichloroethane-d4	102	7.333	7.333	(0.932)	56950	40.0000	40.00
	53 Benzene	78	7.589	7.589	(0.965)	156148	5.00000	5.013
	54 tert-Amyl Methyl Ether	73	7.786	7.786	(0.990)	93054	5.00000	4.670
	49 1,2-Dichloroethane	62	7.422	7.422	(0.944)	47963	5.00000	4.874
	39 2,2-Dichloropropane	77	6.506	6.506	(0.827)	52019	5.00000	4.929
	50 1,1-Dichloropropene	75	7.441	7.441	(0.946)	56026	5.00000	4.860
	56 Trichloroethene	95	8.357	8.357	(1.063)	40572	5.00000	4.769
	60 1,4-Dioxane	88	8.564	8.564	(1.089)	5704	100.000	93.57
	57 1,2-Dichloropropane	63	8.407	8.407	(1.069)	46826	5.00000	4.919
	58 Dibromomethane	93	8.515	8.515	(1.083)	23861	5.00000	4.950
	59 Methyl methacrylate	41	7.491	7.491	(0.952)	49950	5.00000	5.029
	61 Bromodichloromethane	83	8.584	8.584	(1.091)	49885	5.00000	4.874
	62 tert-Amyl Ethyl Ether	59	8.673	8.673	(1.103)	93862	5.00000	4.851
	70 cis-1,3-Dichloropropene	75	9.155	9.155	(1.164)	55373	5.00000	4.727
	69 4-Methyl-2-pentanone	43	9.086	9.086	(1.155)	70443	10.0000	9.445
$	71 Toluene-d8	98	9.559	9.559	(0.869)	909049	40.0000	38.85
	74 Toluene	92	9.638	9.638	(0.876)	82279	5.00000	4.873
	73 trans-1,3-Dichloropropene	75	9.638	9.638	(0.876)	47394	5.00000	4.652
	76 Ethyl methacrylate	69	9.825	9.825	(0.893)	38534	5.00000	4.477
	75 1,1,2-Trichloroethane	83	9.786	9.786	(0.890)	25826	5.00000	4.789

Data File: \\ELABNSH05\TARGET\chem\voa5.i\092211V5.b\0922CAL2.D
Report Date: 23-Sep-2011 07:07

Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	AMOUNTS CAL-AMT (ug/Kg)	AMOUNTS ON-COL (ug/Kg)
80 Tetrachloroethene	166	10.377	10.377	(0.944)	28974	5.00000	4.772
77 2-Hexanone	43	9.933	9.933	(0.903)	48623	10.0000	8.979
79 Dibromochloromethane	129	10.258	10.258	(0.933)	27515	5.00000	4.525
81 1,2-Dibromoethane	107	10.475	10.475	(0.953)	25047	5.00000	4.338
63 Methyl cyclohexane	83	8.742	8.742	(1.111)	63836	5.00000	4.977
* 82 Chlorobenzene-d5	82	10.997	10.997	(1.000)	356061	30.0000	
84 Chlorobenzene	112	11.027	11.027	(1.003)	80155	5.00000	4.858
85 1,1,1,2-Tetrachloroethane	131	11.076	11.076	(1.007)	24690	5.00000	4.652
83 1-Chlorohexane	91	10.997	10.997	(1.000)	49293	5.00000	4.739
86 Ethylbenzene	91	11.175	11.175	(1.016)	149668	5.00000	4.840
87 m,p-Xylene	91	11.293	11.293	(1.027)	212494	10.0000	9.935
M 119 Xylene(total)	91				321635	15.0000	14.87
89 o-Xylene	91	11.687	11.687	(1.063)	109141	5.00000	4.934
88 Styrene	104	11.657	11.657	(1.060)	78828	5.00000	4.647
90 Bromoform	173	11.756	11.756	(1.069)	14813	5.00000	4.178
91 cis-1,4-Dichloro-2-butene	53	11.834	11.834	(0.884)	7473	5.00000	4.574(a)
94 Isopropylbenzene	105	12.081	12.081	(1.099)	112196	5.00000	4.666
$ 97 Bromofluorobenzene	95	12.189	12.189	(1.108)	381423	40.0000	38.63
93 1,1,2,2-Tetrachloroethane	83	12.002	12.002	(0.896)	30206	5.00000	4.677
78 1,3-Dichloropropane	76	10.002	10.002	(0.910)	49113	5.00000	4.670
95 1,2,3-Trichloropropane	110	12.130	12.130	(1.103)	7073	5.00000	4.454
96 trans-1,4-Dichloro-2-butene	53	12.150	12.150	(0.907)	8097	5.00000	4.668(a)
99 n-Propylbenzene	91	12.494	12.494	(0.933)	143485	5.00000	4.772
102 1,3,5-Trimethylbenzene	105	12.672	12.672	(0.946)	83346	5.00000	4.867
106 1,2,4-Trimethylbenzene	105	13.036	13.036	(0.974)	73609	5.00000	4.644
107 sec-Butylbenzene	105	13.243	13.243	(0.989)	109170	5.00000	4.640
105 tert-Butylbenzene	119	13.007	13.007	(0.971)	69813	5.00000	4.613
108 1,3-Dichlorobenzene	146	13.332	13.332	(0.996)	46077	5.00000	4.952
* 110 1,4-Dichlorobenzene-d4	152	13.391	13.391	(1.000)	224911	30.0000	
111 1,4-Dichlorobenzene	146	13.420	13.420	(1.002)	42727	5.00000	4.835
113 n-Butylbenzene	91	13.785	13.785	(1.029)	74260	5.00000	4.463
112 1,2-Dichlorobenzene	146	13.745	13.745	(1.026)	40700	5.00000	4.782
117 1,2-Dibromo-3-chloropropane	157	14.386	14.386	(1.074)	3874	5.00000	4.628
118 1,3,5-Trichlorobenzene	180	14.908	14.908	(1.113)	23781	5.00000	4.643
98 Bromobenzene	156	12.357	12.357	(0.923)	27971	5.00000	4.888
100 2-Chlorotoluene	91	12.573	12.573	(0.939)	94151	5.00000	5.026
101 4-Chlorotoluene	91	12.632	12.632	(0.943)	94448	5.00000	4.753
120 1,2,4-Trichlorobenzene	180	15.459	15.459	(1.154)	20364	5.00000	4.703
121 Naphthalene	128	15.617	15.617	(1.166)	55433	5.00000	7.348
109 p-Isopropyltoluene	119	13.381	13.381	(0.999)	70315	5.00000	4.574
122 Hexachlorobutadiene	225	15.745	15.745	(1.176)	15394	5.00000	4.576
123 1,2,3-Trichlorobenzene	180	15.903	15.903	(1.188)	18292	5.00000	4.649

QC Flag Legend

a - Target compound detected but, quantitated amount Below Limit Of Quantitation(BLOQ).

Data File: \\ELABNSH05\TARGET\chem\voa5.i\092211V5.b\0922CAL2.D
Date : 22-SEP-2011 14:51
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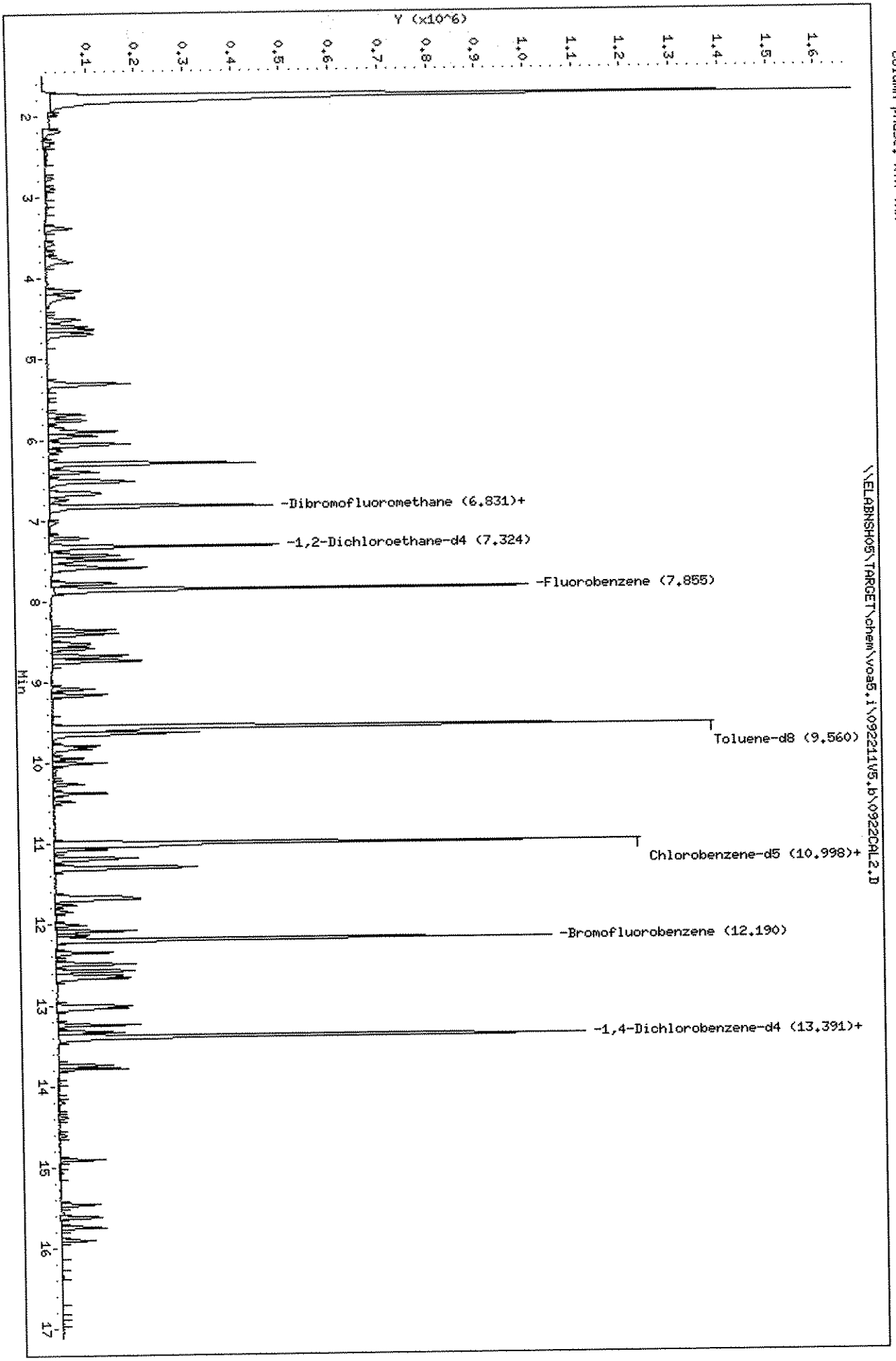
Sample Info: SEQ-CAL2;;;;;
Column Phase: RTX-VRX

Instrument: voa5.i
Operator: ADM
Column diameter: 0.25



Data File: \\ELABNSH05\TARGET\chem\voa5.i\092211V5.b\0922CAL3.D
Report Date: 23-Sep-2011 07:07

Laboratory Name

Data file : \\ELABNSH05\TARGET\chem\voa5.i\092211V5.b\0922CAL3.D
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Inj Date : 22-SEP-2011 15:17
Operator : ADM Inst ID: voa5.i
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Misc Info : ;;;;;8260.sub;
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Meth Date : 23-Sep-2011 07:07 amonteiro Quant Type: ISTD
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Als bottle: 4 Calibration Sample, Level: 3
Dil Factor: 1.00000
Integrator: HP RTE Compound Sublist: 8260.sub
Target Version: 4.04
Processing Host: TARGET02_VM

Concentration Formula: Amt * DF * 5*Uf/(Ws*(Solids/100))

Name	Value	Description
DF	1.000	Dilution Factor
Uf	1.000	unit correction factor
Ws	5.000	Weight of sample extracted (g)
Solids	100.000	Percent Solids

M9/23/11

Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	AMOUNTS CAL-AMT (ug/Kg)	AMOUNTS ON-COL (ug/Kg)
* 55 Fluorobenzene	96	7.858	7.858	(1.000)	811892	30.0000	
1 Dichlorodifluoromethane	85	1.977	1.977	(0.252)	69321	10.0000	10.31
2 Chloromethane	50	2.184	2.184	(0.278)	83666	10.0000	9.950
3 Vinyl chloride	62	2.322	2.322	(0.296)	38382	10.0000	8.501
4 Bromomethane	94	2.755	2.755	(0.351)	28856	10.0000	8.940
5 Chloroethane	64	2.893	2.893	(0.368)	46581	10.0000	10.22
7 Trichlorofluoromethane	101	3.376	3.376	(0.430)	112170	10.0000	10.07
11 Ethyl Ether	59	3.800	3.800	(0.484)	66941	10.0000	10.14
10 Acetonitrile	41	3.760	3.760	(0.479)	117748	100.000	100.9
13 Trichlorotrifluoroethane	101	4.233	4.233	(0.539)	81583	10.0000	10.17
8 Acrolein	56	3.573	3.573	(0.455)	44060	50.0000	45.11
19 Allyl chloride	76	4.588	4.588	(0.584)	41753	10.0000	9.894
12 1,1-Dichloroethene	96	4.154	4.154	(0.529)	76093	10.0000	10.40
9 Acetone	43	3.681	3.681	(0.469)	47738	20.0000	19.04
14 t-Butyl alcohol	59	4.292	4.292	(0.546)	31608	50.0000	47.60

09/23/11

Data File: \\ELABNSH05\TARGET\chem\voa5.i\092211V5.b\0922CAL3.D
Report Date: 23-Sep-2011 07:07

	Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	AMOUNTS CAL-AMT (ug/Kg)	AMOUNTS ON-COL (ug/Kg)
	16 Iodomethane	142	4.351	4.351	(0.554)	20989	10.0000	10.71
	22 Carbon disulfide	76	4.696	4.696	(0.598)	298030	10.0000	10.33
	20 Methylene chloride	84	4.637	4.637	(0.590)	103484	10.0000	10.96
	18 Acrylonitrile	53	4.509	4.509	(0.574)	121453	50.0000	49.68
	24 trans-1,2-Dichloroethene	96	5.307	5.307	(0.675)	79677	10.0000	10.23
	23 MTBE	73	5.307	5.307	(0.675)	183398	10.0000	10.23
	26 1,1-Dichloroethane	63	5.691	5.691	(0.724)	168442	10.0000	10.09
	28 Propionitrile	54	5.848	5.848	(0.744)	90305	100.000	102.4
	27 Vinyl acetate	43	5.760	5.760	(0.733)	271671	20.0000	20.38
	30 Chloroprene	53	5.957	5.957	(0.758)	131470	10.0000	9.858
	33 Di-isopropyl ether	45	6.055	6.055	(0.771)	382884	10.0000	10.61
	37 cis-1,2-Dichloroethene	96	6.400	6.400	(0.814)	83390	10.0000	10.14
M	6 1,2-Dichloroethene(total)	96				163067	20.0000	20.37
	34 2-Butanone	43	6.134	6.134	(0.781)	85536	20.0000	19.39
	36 Methacrylonitrile	41	6.302	6.302	(0.802)	488719	100.000	108.2
	29 Hexane	57	5.898	5.898	(0.751)	152290	10.0000	10.72
	42 Bromochloromethane	128	6.686	6.686	(0.851)	35419	10.0000	10.59
	43 Isobutyl alcohol	42	6.745	6.745	(0.858)	36643	200.000	183.3
	45 Tetrahydrofuran	42	6.863	6.863	(0.873)	23007	10.0000	9.798
	46 tert-Amyl alcohol	59	7.030	7.030	(0.895)	25274	50.0000	47.91
	41 Chloroform	83	6.656	6.656	(0.847)	146883	10.0000	10.35
	17 Methyl acetate	43	4.499	4.499	(0.573)	65161	10.0000	10.55
$	44 Dibromofluoromethane	111	6.833	6.833	(0.870)	333389	50.0000	47.95
	47 1,1,1-Trichloroethane	97	7.218	7.218	(0.919)	101644	10.0000	10.01
	40 ETBE	59	6.528	6.528	(0.831)	259875	10.0000	10.45
	51 Cyclohexane	56	7.493	7.493	(0.954)	163918	10.0000	10.43
	52 Carbon tetrachloride	117	7.562	7.562	(0.962)	76664	10.0000	9.922
$	48 1,2-Dichloroethane-d4	102	7.326	7.326	(0.932)	72067	50.0000	50.45
	53 Benzene	78	7.592	7.592	(0.966)	330514	10.0000	10.58
	54 tert-Amyl Methyl Ether	73	7.789	7.789	(0.991)	199376	10.0000	9.972
	49 1,2-Dichloroethane	62	7.424	7.424	(0.945)	99370	10.0000	10.06
	39 2,2-Dichloropropane	77	6.508	6.508	(0.828)	108085	10.0000	10.21
	50 1,1-Dichloropropene	75	7.444	7.444	(0.947)	119133	10.0000	10.30
	56 Trichloroethene	95	8.360	8.360	(1.064)	87117	10.0000	10.21
	60 1,4-Dioxane	88	8.567	8.567	(1.090)	14253	200.000	233.0
	57 1,2-Dichloropropane	63	8.409	8.409	(1.070)	99265	10.0000	10.39
	58 Dibromomethane	93	8.518	8.518	(1.084)	47660	10.0000	9.854
	59 Methyl methacrylate	41	7.493	7.493	(0.954)	105319	10.0000	10.57
	61 Bromodichloromethane	83	8.587	8.587	(1.093)	103595	10.0000	10.09
	62 tert-Amyl Ethyl Ether	59	8.675	8.675	(1.104)	199939	10.0000	10.30
	70 cis-1,3-Dichloropropene	75	9.158	9.158	(1.165)	120797	10.0000	10.28
	69 4-Methyl-2-pentanone	43	9.079	9.079	(1.155)	149553	20.0000	19.98
$	71 Toluene-d8	98	9.562	9.562	(0.869)	1132755	50.0000	48.18
	74 Toluene	92	9.641	9.641	(0.876)	173261	10.0000	10.21
	73 trans-1,3-Dichloropropene	75	9.631	9.631	(0.876)	103940	10.0000	10.15
	76 Ethyl methacrylate	69	9.828	9.828	(0.893)	83647	10.0000	9.671
	75 1,1,2-Trichloroethane	83	9.788	9.788	(0.890)	54769	10.0000	10.11

Data File: \\ELABNSH05\TARGET\chem\voa5.i\092211V5.b\0922CAL3.D
Report Date: 23-Sep-2011 07:07

Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	AMOUNTS CAL-AMT (ug/Kg)	AMOUNTS ON-COL (ug/Kg)
80 Tetrachloroethene	166	10.380	10.380	(0.944)	62665	10.0000	10.27
77 2-Hexanone	43	9.936	9.936	(0.903)	102446	20.0000	18.83
79 Dibromochloromethane	129	10.261	10.261	(0.933)	59974	10.0000	9.816
81 1,2-Dibromoethane	107	10.478	10.478	(0.953)	57212	10.0000	9.862
63 Methyl cyclohexane	83	8.735	8.735	(1.112)	134622	10.0000	10.46
* 82 Chlorobenzene-d5	82	11.000	11.000	(1.000)	357779	30.0000	
84 Chlorobenzene	112	11.030	11.030	(1.003)	173888	10.0000	10.49
85 1,1,1,2-Tetrachloroethane	131	11.069	11.069	(1.006)	53240	10.0000	9.984
83 1-Chlorohexane	91	11.000	11.000	(1.000)	105334	10.0000	10.08
86 Ethylbenzene	91	11.177	11.177	(1.016)	323556	10.0000	10.41
87 m,p-Xylene	91	11.296	11.296	(1.027)	447940	20.0000	20.84
M 119 Xylene(total)	91				649445	30.0000	29.91
89 o-Xylene	91	11.690	11.690	(1.063)	201505	10.0000	9.065
88 Styrene	104	11.650	11.650	(1.059)	164474	10.0000	9.650
90 Bromoform	173	11.759	11.759	(1.069)	33391	10.0000	9.372
91 cis-1,4-Dichloro-2-butene	53	11.837	11.837	(0.884)	15451	10.0000	9.149
94 Isopropylbenzene	105	12.084	12.084	(1.098)	247694	10.0000	10.25
$ 97 Bromofluorobenzene	95	12.192	12.192	(1.108)	457105	50.0000	46.07
93 1,1,2,2-Tetrachloroethane	83	12.005	12.005	(0.896)	66039	10.0000	9.893
78 1,3-Dichloropropane	76	10.005	10.005	(0.910)	108197	10.0000	10.24
95 1,2,3-Trichloropropane	110	12.133	12.133	(1.103)	15275	10.0000	9.573
96 trans-1,4-Dichloro-2-butene	53	12.153	12.153	(0.907)	17910	10.0000	9.988
99 n-Propylbenzene	91	12.487	12.487	(0.932)	319225	10.0000	10.27
102 1,3,5-Trimethylbenzene	105	12.665	12.665	(0.946)	173544	10.0000	9.804
106 1,2,4-Trimethylbenzene	105	13.039	13.039	(0.974)	165706	10.0000	10.12
107 sec-Butylbenzene	105	13.246	13.246	(0.989)	239170	10.0000	9.835
105 tert-Butylbenzene	119	13.010	13.010	(0.971)	155710	10.0000	9.954
108 1,3-Dichlorobenzene	146	13.335	13.335	(0.996)	98331	10.0000	10.22
* 110 1,4-Dichlorobenzene-d4	152	13.394	13.394	(1.000)	232475	30.0000	
111 1,4-Dichlorobenzene	146	13.423	13.423	(1.002)	93635	10.0000	10.25
113 n-Butylbenzene	91	13.788	13.788	(1.029)	166509	10.0000	9.681
112 1,2-Dichlorobenzene	146	13.738	13.738	(1.026)	89191	10.0000	10.14
117 1,2-Dibromo-3-chloropropane	157	14.389	14.389	(1.074)	8177	10.0000	9.452
118 1,3,5-Trichlorobenzene	180	14.911	14.911	(1.113)	52618	10.0000	9.939
98 Bromobenzene	156	12.350	12.350	(0.922)	61062	10.0000	10.32
100 2-Chlorotoluene	91	12.576	12.576	(0.939)	199445	10.0000	10.30
101 4-Chlorotoluene	91	12.635	12.635	(0.943)	213251	10.0000	10.38
120 1,2,4-Trichlorobenzene	180	15.462	15.462	(1.154)	43299	10.0000	9.674
121 Naphthalene	128	15.620	15.620	(1.166)	88030	10.0000	11.85
109 p-Isopropyltoluene	119	13.384	13.384	(0.999)	155149	10.0000	9.765
122 Hexachlorobutadiene	225	15.748	15.748	(1.176)	33178	10.0000	9.542
123 1,2,3-Trichlorobenzene	180	15.905	15.905	(1.188)	40035	10.0000	9.843

Data File: \\ELABNSH05\TARGET\chem\voa5.i\092211V5.b\0922CAL3.D
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Column phase: RTX-VRX

Instrument: voa5.i
Operator: ADM
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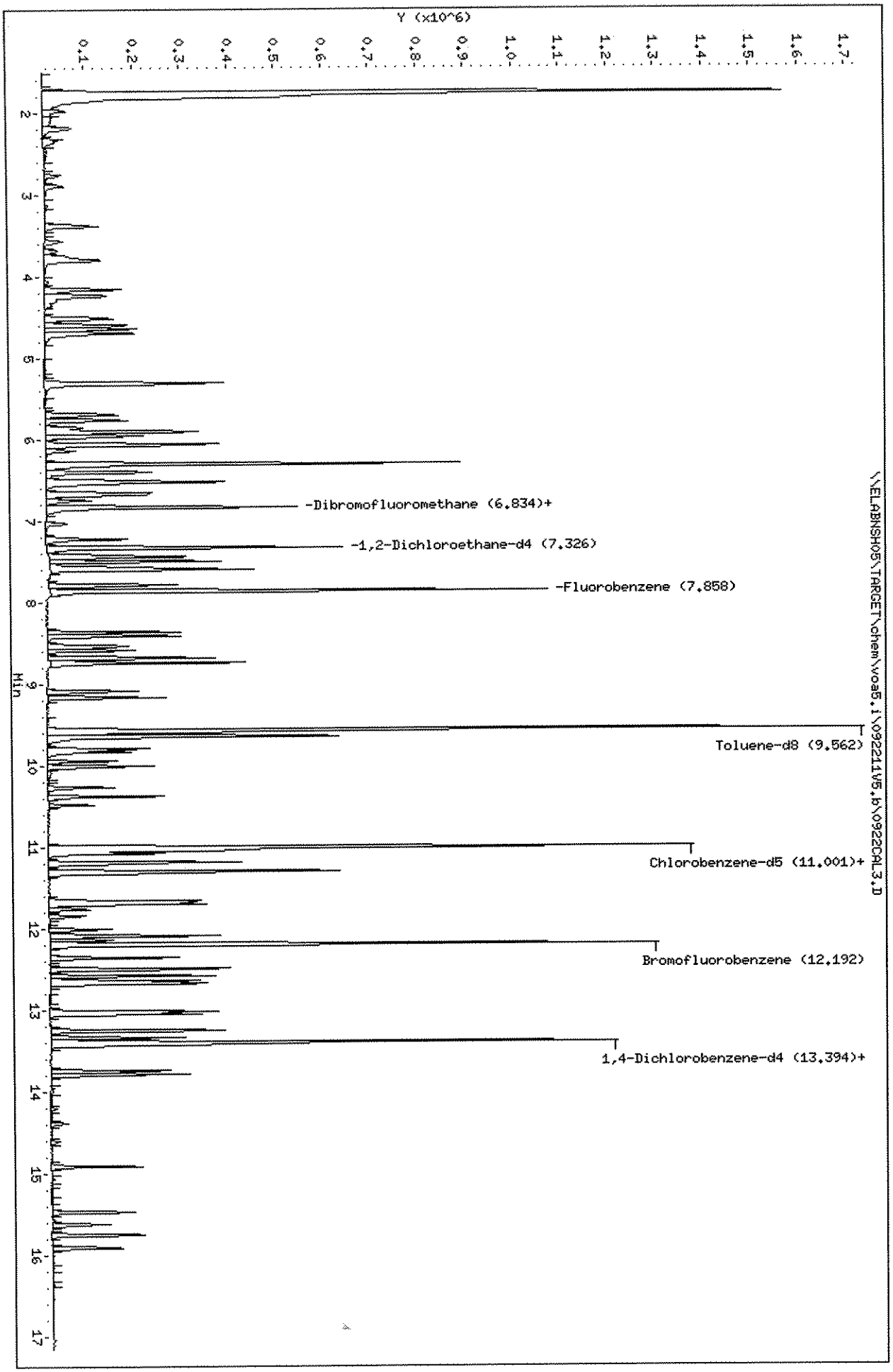

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Report Date: 23-Sep-2011 07:07

Laboratory Name

Data file : \\ELABNSH05\TARGET\chem\voa5.i\092211V5.b\0922CAL4.D
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Inj Date : 22-SEP-2011 15:44
Operator : ADM Inst ID: voa5.i
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Meth Date : 23-Sep-2011 07:07 amonteiro Quant Type: ISTD
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Als bottle: 5 Calibration Sample, Level: 4
Dil Factor: 1.00000
Integrator: HP RTE Compound Sublist: 8260.sub
Target Version: 4.04
Processing Host: TARGET02_VM

Concentration Formula: Amt * DF * 5*Uf/(Ws*(Solids/100))

Name	Value	Description
DF	1.000	Dilution Factor
Uf	1.000	unit correction factor
Ws	5.000	Weight of sample extracted (g)
Solids	100.000	Percent Solids

MG 9/23/11

Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	AMOUNTS CAL-AMT (ug/Kg)	AMOUNTS ON-COL (ug/Kg)
* 55 Fluorobenzene	96	7.861	7.861	(1.000)	811527	30.0000	
1 Dichlorodifluoromethane	85	1.980	1.980	(0.252)	115623	20.0000	17.21
2 Chloromethane	50	2.187	2.187	(0.278)	156004	20.0000	18.56
3 Vinyl chloride	62	2.325	2.325	(0.296)	81860	20.0000	18.14
4 Bromomethane	94	2.759	2.759	(0.351)	56527	20.0000	17.52
5 Chloroethane	64	2.896	2.896	(0.368)	84713	20.0000	18.60
7 Trichlorofluoromethane	101	3.379	3.379	(0.430)	218906	20.0000	19.65
11 Ethyl Ether	59	3.793	3.793	(0.483)	133195	20.0000	20.18
10 Acetonitrile	41	3.753	3.753	(0.478)	235413	200.000	201.8
13 Trichlorotrifluoroethane	101	4.236	4.236	(0.539)	156879	20.0000	19.57
8 Acrolein	56	3.566	3.566	(0.454)	91791	100.000	94.02
19 Allyl chloride	76	4.591	4.591	(0.584)	84427	20.0000	20.02
12 1,1-Dichloroethene	96	4.157	4.157	(0.529)	144007	20.0000	19.68
9 Acetone	43	3.675	3.675	(0.467)	95470	40.0000	38.10
14 t-Butyl alcohol	59	4.295	4.295	(0.546)	68951	100.000	103.9

09/23/11

Data File: \\ELABNSH05\TARGET\chem\voa5.i\092211V5.b\0922CAL4.D
Report Date: 23-Sep-2011 07:07

	Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	AMOUNTS CAL-AMT (ug/Kg)	AMOUNTS ON-COL (ug/Kg)
	16 Iodomethane	142	4.354	4.354	(0.554)	59448	20.0000	16.98
	22 Carbon disulfide	76	4.689	4.689	(0.597)	566069	20.0000	19.63
	20 Methylene chloride	84	4.640	4.640	(0.590)	186698	20.0000	19.78
	18 Acrylonitrile	53	4.512	4.512	(0.574)	249199	100.000	102.0
	24 trans-1,2-Dichloroethene	96	5.310	5.310	(0.675)	158369	20.0000	20.35
	23 MTBE	73	5.300	5.300	(0.674)	357699	20.0000	19.96
	26 1,1-Dichloroethane	63	5.684	5.684	(0.723)	336842	20.0000	20.18
	28 Propionitrile	54	5.852	5.852	(0.744)	184326	200.000	209.1
	27 Vinyl acetate	43	5.753	5.753	(0.732)	547981	40.0000	41.13
	30 Chloroprene	53	5.950	5.950	(0.757)	270652	20.0000	20.30
	33 Di-isopropyl ether	45	6.058	6.058	(0.771)	744329	20.0000	20.64
	37 cis-1,2-Dichloroethene	96	6.403	6.403	(0.815)	162107	20.0000	19.72
M	6 1,2-Dichloroethene(total)	96				320476	40.0000	40.06
	34 2-Butanone	43	6.127	6.127	(0.779)	176576	40.0000	40.05
	36 Methacrylonitrile	41	6.305	6.305	(0.802)	992117	200.000	219.8
	29 Hexane	57	5.901	5.901	(0.751)	279034	20.0000	19.64
	42 Bromochloromethane	128	6.679	6.679	(0.850)	66664	20.0000	19.95
	43 Isobutyl alcohol	42	6.738	6.738	(0.857)	82717	400.000	414.0
	45 Tetrahydrofuran	42	6.866	6.866	(0.873)	48348	20.0000	20.60
	46 tert-Amyl alcohol	59	7.024	7.024	(0.893)	53696	100.000	101.8
	41 Chloroform	83	6.659	6.659	(0.847)	284088	20.0000	20.03
	17 Methyl acetate	43	4.502	4.502	(0.573)	121958	20.0000	19.75
$	44 Dibromofluoromethane	111	6.827	6.827	(0.868)	398193	60.0000	57.29
	47 1,1,1-Trichloroethane	97	7.221	7.221	(0.919)	200396	20.0000	19.74
	40 ETBE	59	6.521	6.521	(0.830)	511486	20.0000	20.57
	51 Cyclohexane	56	7.497	7.497	(0.954)	310260	20.0000	19.75
	52 Carbon tetrachloride	117	7.565	7.565	(0.962)	150473	20.0000	19.48
$	48 1,2-Dichloroethane-d4	102	7.329	7.329	(0.932)	83426	60.0000	58.42
	53 Benzene	78	7.595	7.595	(0.966)	637560	20.0000	20.41
	54 tert-Amyl Methyl Ether	73	7.782	7.782	(0.990)	401179	20.0000	20.08
	49 1,2-Dichloroethane	62	7.418	7.418	(0.944)	199580	20.0000	20.22
	39 2,2-Dichloropropane	77	6.511	6.511	(0.828)	212632	20.0000	20.09
	50 1,1-Dichloropropene	75	7.437	7.437	(0.946)	231963	20.0000	20.06
	56 Trichloroethene	95	8.363	8.363	(1.064)	170632	20.0000	20.00
	60 1,4-Dioxane	88	8.560	8.560	(1.089)	25076	400.000	410.2
	57 1,2-Dichloropropane	63	8.403	8.403	(1.069)	195804	20.0000	20.51
	58 Dibromomethane	93	8.521	8.521	(1.084)	99275	20.0000	20.54
	59 Methyl methacrylate	41	7.497	7.497	(0.954)	202993	20.0000	20.38
	61 Bromodichloromethane	83	8.580	8.580	(1.091)	204187	20.0000	19.89
	62 tert-Amyl Ethyl Ether	59	8.679	8.679	(1.104)	393822	20.0000	20.29
	66 2-Chloroethyl vinyl ether	63	9.023	9.023	(1.148)	908	40.0000	42.59(T)
	70 cis-1,3-Dichloropropene	75	9.161	9.161	(1.165)	234535	20.0000	19.96
	69 4-Methyl-2-pentanone	43	9.082	9.082	(1.155)	306922	40.0000	41.03
$	71 Toluene-d8	98	9.565	9.565	(0.870)	1291593	60.0000	55.08
	74 Toluene	92	9.634	9.634	(0.876)	339975	20.0000	20.09
	73 trans-1,3-Dichloropropene	75	9.634	9.634	(0.876)	204978	20.0000	20.07
	76 Ethyl methacrylate	69	9.821	9.821	(0.893)	166852	20.0000	19.34

Data File: \\ELABNSH05\TARGET\chem\voa5.i\092211V5.b\0922CAL4.D
Report Date: 23-Sep-2011 07:07

Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	AMOUNTS CAL-AMT (ug/Kg)	AMOUNTS ON-COL (ug/Kg)
75 1,1,2-Trichloroethane	83	9.792	9.792	(0.891)	105905	20.0000	19.60
80 Tetrachloroethene	166	10.373	10.373	(0.944)	117723	20.0000	19.34
77 2-Hexanone	43	9.939	9.939	(0.904)	213481	40.0000	39.34
79 Dibromochloromethane	129	10.264	10.264	(0.934)	118538	20.0000	19.45
81 1,2-Dibromoethane	107	10.471	10.471	(0.953)	117499	20.0000	20.31
63 Methyl cyclohexane	83	8.738	8.738	(1.112)	261702	20.0000	20.35
* 82 Chlorobenzene-d5	82	10.993	10.993	(1.000)	356845	30.0000	
84 Chlorobenzene	112	11.033	11.033	(1.004)	327800	20.0000	19.82
85 1,1,1,2-Tetrachloroethane	131	11.072	11.072	(1.007)	105039	20.0000	19.75
83 1-Chlorohexane	91	11.003	11.003	(1.001)	204605	20.0000	19.63
86 Ethylbenzene	91	11.180	11.180	(1.017)	623335	20.0000	20.11
87 m,p-Xylene	91	11.299	11.299	(1.028)	885192	40.0000	41.30
M 119 Xylene(total)	91				1338201	60.0000	61.73
89 o-Xylene	91	11.683	11.683	(1.063)	453009	20.0000	20.43
88 Styrene	104	11.653	11.653	(1.060)	341141	20.0000	20.07
90 Bromoform	173	11.752	11.752	(1.069)	70298	20.0000	19.78
91 cis-1,4-Dichloro-2-butene	53	11.840	11.840	(0.884)	34666	20.0000	19.97
94 Isopropylbenzene	105	12.077	12.077	(1.099)	483015	20.0000	20.04
$ 97 Bromofluorobenzene	95	12.195	12.195	(1.109)	530880	60.0000	53.65
93 1,1,2,2-Tetrachloroethane	83	12.008	12.008	(0.896)	132481	20.0000	19.31
78 1,3-Dichloropropane	76	9.998	9.998	(0.910)	212598	20.0000	20.17
95 1,2,3-Trichloropropane	110	12.126	12.126	(1.103)	32191	20.0000	20.23
96 trans-1,4-Dichloro-2-butene	53	12.146	12.146	(0.907)	35837	20.0000	19.44
99 n-Propylbenzene	91	12.491	12.491	(0.932)	636531	20.0000	19.93
102 1,3,5-Trimethylbenzene	105	12.668	12.668	(0.946)	357959	20.0000	19.68
106 1,2,4-Trimethylbenzene	105	13.042	13.042	(0.974)	324638	20.0000	19.28
107 sec-Butylbenzene	105	13.239	13.239	(0.988)	496912	20.0000	19.88
105 tert-Butylbenzene	119	13.013	13.013	(0.971)	315980	20.0000	19.65
108 1,3-Dichlorobenzene	146	13.328	13.328	(0.995)	192619	20.0000	19.49
* 110 1,4-Dichlorobenzene-d4	152	13.397	13.397	(1.000)	238939	30.0000	
111 1,4-Dichlorobenzene	146	13.426	13.426	(1.002)	179227	20.0000	19.09
113 n-Butylbenzene	91	13.781	13.781	(1.029)	340334	20.0000	19.25
112 1,2-Dichlorobenzene	146	13.742	13.742	(1.026)	179376	20.0000	19.84
117 1,2-Dibromo-3-chloropropane	157	14.382	14.382	(1.074)	17471	20.0000	19.65
118 1,3,5-Trichlorobenzene	180	14.904	14.904	(1.112)	104633	20.0000	19.23
98 Bromobenzene	156	12.353	12.353	(0.922)	120163	20.0000	19.76
100 2-Chlorotoluene	91	12.579	12.579	(0.939)	393886	20.0000	19.79
101 4-Chlorotoluene	91	12.638	12.638	(0.943)	424646	20.0000	20.12
120 1,2,4-Trichlorobenzene	180	15.465	15.465	(1.154)	86996	20.0000	18.91
121 Naphthalene	128	15.613	15.613	(1.165)	145699	20.0000	19.72
109 p-Isopropyltoluene	119	13.377	13.377	(0.999)	316469	20.0000	19.38
122 Hexachlorobutadiene	225	15.751	15.751	(1.176)	66450	20.0000	18.59
123 1,2,3-Trichlorobenzene	180	15.899	15.899	(1.187)	78916	20.0000	18.88

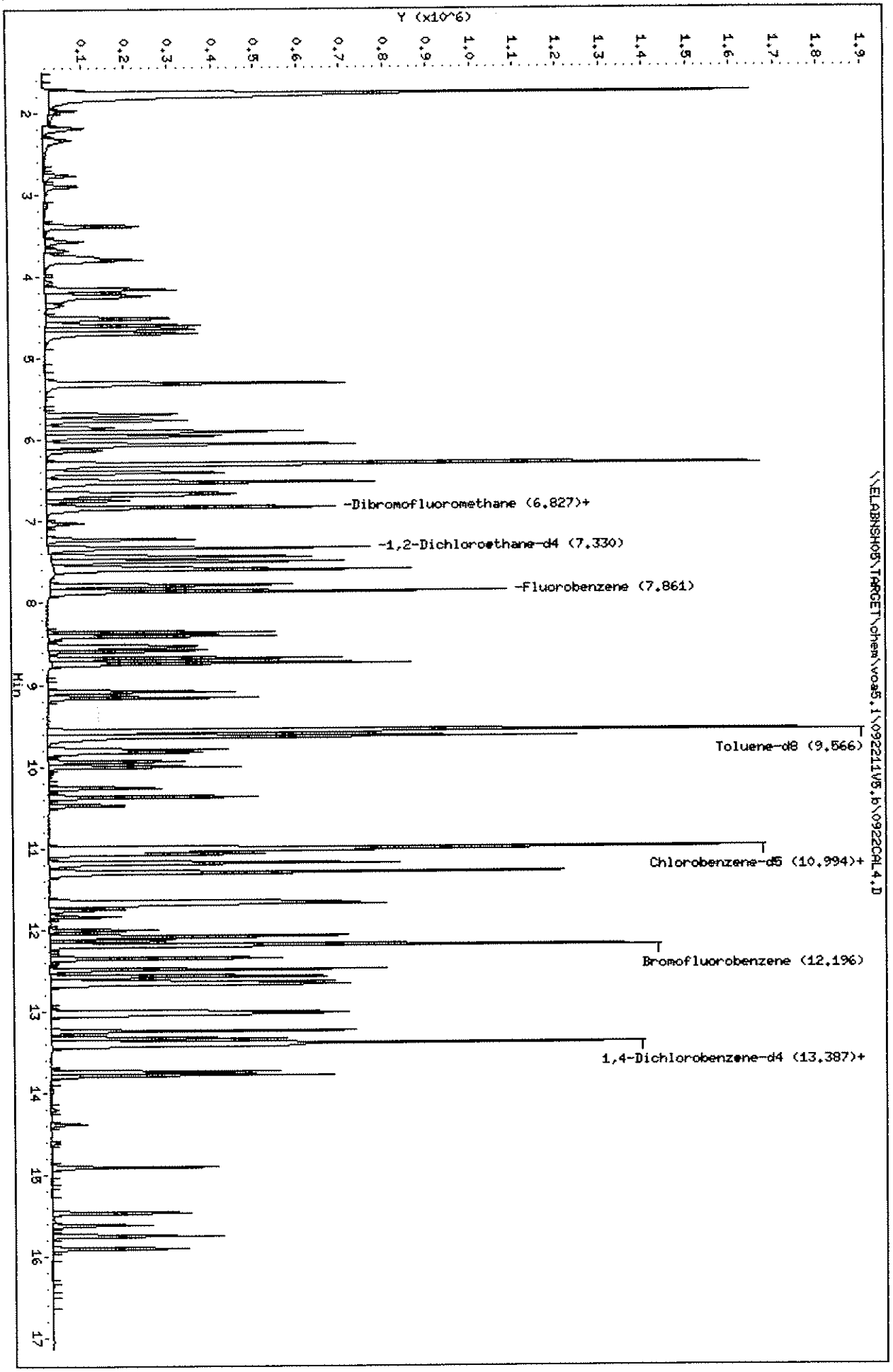
Data File: \\ELABNSH05\TARGET\chem\voa5.i\092211V5.b\0922CAL4.D
Report Date: 23-Sep-2011 07:07

QC Flag Legend

T - Target compound detected outside RT window.

Data File: \\ELABNSH05\TARGET\chem\voa5.i\092211V5.b\0922CAL4.D
Date : 22-SEP-2011 15:44
Client ID: SEQ-CAL4
Sample Info: SEQ-CAL4;;;;;
Column phase: RTX-VRX

Instrument: voa5.i
Operator: ADM
Column diameter: 0.25



Data File: \\ELABNSH05\TARGET\chem\voa5.i\092211V5.b\0922CAL5.D
Report Date: 23-Sep-2011 07:07

Laboratory Name

Data file : \\ELABNSH05\TARGET\chem\voa5.i\092211V5.b\0922CAL5.D
Lab Smp Id: SEQ-CAL5 Client Smp ID: SEQ-CAL5
Inj Date : 22-SEP-2011 16:10
Operator : ADM Inst ID: voa5.i
Smp Info : SEQ-CAL5;;;;;
Misc Info : ;;;;;8260.sub;
Comment :
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Meth Date : 23-Sep-2011 07:07 amonteiro Quant Type: ISTD
Cal Date : 22-SEP-2011 14:24 Cal File: 0922CAL1.D
Als bottle: 6 Calibration Sample, Level: 5
Dil Factor: 1.00000
Integrator: HP RTE Compound Sublist: 8260.sub
Target Version: 4.04
Processing Host: TARGET02_VM

Concentration Formula: Amt * DF * 5*Uf/(Ws*(Solids/100))

Name	Value	Description
DF	1.000	Dilution Factor
Uf	1.000	unit correction factor
Ws	5.000	Weight of sample extracted (g)
Solids	100.000	Percent Solids

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Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	AMOUNTS CAL-AMT (ug/Kg)	AMOUNTS ON-COL (ug/Kg)
* 55 Fluorobenzene	96	7.865	7.865	(1.000)	814689	30.0000	
1 Dichlorodifluoromethane	85	1.975	1.975	(0.251)	232949	40.0000	34.53
2 Chloromethane	50	2.191	2.191	(0.279)	320715	40.0000	38.01
3 Vinyl chloride	62	2.319	2.319	(0.295)	155003	40.0000	34.21
4 Bromomethane	94	2.763	2.763	(0.351)	116029	40.0000	35.82
5 Chloroethane	64	2.891	2.891	(0.368)	179399	40.0000	39.23
7 Trichlorofluoromethane	101	3.383	3.383	(0.430)	449288	40.0000	40.18
11 Ethyl Ether	59	3.797	3.797	(0.483)	265685	40.0000	40.10
10 Acetonitrile	41	3.758	3.758	(0.478)	453940	400.000	387.6
13 Trichlorotrifluoroethane	101	4.240	4.240	(0.539)	323662	40.0000	40.22
8 Acrolein	56	3.570	3.570	(0.454)	191512	200.000	195.4
19 Allyl chloride	76	4.595	4.595	(0.584)	173643	40.0000	41.01
12 1,1-Dichloroethene	96	4.161	4.161	(0.529)	296851	40.0000	40.42
9 Acetone	43	3.679	3.679	(0.468)	187185	80.0000	74.42
14 t-Butyl alcohol	59	4.289	4.289	(0.545)	135399	200.000	203.2

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Data File: \\ELABNSH05\TARGET\chem\voa5.i\092211V5.b\0922CAL5.D
Report Date: 23-Sep-2011 07:07

	Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	AMOUNTS CAL-AMT (ug/Kg)	AMOUNTS ON-COL (ug/Kg)
	16 Iodomethane	142	4.349	4.349	(0.553)	155886	40.0000	32.58
	22 Carbon disulfide	76	4.693	4.693	(0.597)	1139486	40.0000	39.36
	20 Methylene chloride	84	4.644	4.644	(0.590)	368478	40.0000	38.88
	18 Acrylonitrile	53	4.516	4.516	(0.574)	491748	200.000	200.4
	24 trans-1,2-Dichloroethene	96	5.314	5.314	(0.676)	317060	40.0000	40.58
	23 MTBE	73	5.304	5.304	(0.674)	728115	40.0000	40.46
	26 1,1-Dichloroethane	63	5.688	5.688	(0.723)	677557	40.0000	40.44
	28 Propionitrile	54	5.846	5.846	(0.743)	361364	400.000	408.3
	27 Vinyl acetate	43	5.757	5.757	(0.732)	1079326	80.0000	80.69
	30 Chloroprene	53	5.954	5.954	(0.757)	549330	40.0000	41.05
	33 Di-isopropyl ether	45	6.062	6.062	(0.771)	1484833	40.0000	41.01
	37 cis-1,2-Dichloroethene	96	6.397	6.397	(0.813)	345227	40.0000	41.83
M	6 1,2-Dichloroethene(total)	96				662287	80.0000	82.41
	34 2-Butanone	43	6.131	6.131	(0.780)	338393	80.0000	76.46
	36 Methacrylonitrile	41	6.299	6.299	(0.801)	1877121	400.000	414.4
	29 Hexane	57	5.905	5.905	(0.751)	565520	40.0000	39.66
	42 Bromochloromethane	128	6.683	6.683	(0.850)	134305	40.0000	40.03
	43 Isobutyl alcohol	42	6.742	6.742	(0.857)	159275	800.000	794.0
	45 Tetrahydrofuran	42	6.860	6.860	(0.872)	87205	40.0000	37.01
	46 tert-Amyl alcohol	59	7.028	7.028	(0.894)	110901	200.000	209.5
	41 Chloroform	83	6.653	6.653	(0.846)	569031	40.0000	39.96
	17 Methyl acetate	43	4.496	4.496	(0.572)	254240	40.0000	41.02
$	44 Dibromofluoromethane	111	6.831	6.831	(0.869)	476504	70.0000	68.30
	47 1,1,1-Trichloroethane	97	7.225	7.225	(0.919)	414435	40.0000	40.67
	40 ETBE	59	6.525	6.525	(0.830)	1030466	40.0000	41.29
	51 Cyclohexane	56	7.491	7.491	(0.952)	648514	40.0000	41.12
	52 Carbon tetrachloride	117	7.570	7.570	(0.962)	312462	40.0000	40.30
$	48 1,2-Dichloroethane-d4	102	7.333	7.333	(0.932)	102071	70.0000	71.20
	53 Benzene	78	7.599	7.599	(0.966)	1280957	40.0000	40.85
	54 tert-Amyl Methyl Ether	73	7.786	7.786	(0.990)	823124	40.0000	41.03
	49 1,2-Dichloroethane	62	7.422	7.422	(0.944)	396416	40.0000	40.01
	39 2,2-Dichloropropane	77	6.506	6.506	(0.827)	427948	40.0000	40.27
	50 1,1-Dichloropropene	75	7.441	7.441	(0.946)	476740	40.0000	41.08
	56 Trichloroethene	95	8.358	8.358	(1.063)	352605	40.0000	41.17
	60 1,4-Dioxane	88	8.564	8.564	(1.089)	46650	800.000	760.1
	57 1,2-Dichloropropane	63	8.407	8.407	(1.069)	388164	40.0000	40.50
	58 Dibromomethane	93	8.525	8.525	(1.084)	194635	40.0000	40.10
	59 Methyl methacrylate	41	7.491	7.491	(0.952)	398024	40.0000	39.80
	61 Bromodichloromethane	83	8.584	8.584	(1.091)	417766	40.0000	40.55
	62 tert-Amyl Ethyl Ether	59	8.673	8.673	(1.103)	811614	40.0000	41.66
	66 2-Chloroethyl vinyl ether	63	9.018	9.018	(1.147)	1271	80.0000	59.39(T)
	70 cis-1,3-Dichloropropene	75	9.165	9.165	(1.165)	487062	40.0000	41.30
	69 4-Methyl-2-pentanone	43	9.086	9.086	(1.155)	609481	80.0000	81.17
$	71 Toluene-d8	98	9.559	9.559	(0.869)	1541021	70.0000	64.97
	74 Toluene	92	9.638	9.638	(0.876)	689198	40.0000	40.26
	73 trans-1,3-Dichloropropene	75	9.638	9.638	(0.876)	419545	40.0000	40.62
	76 Ethyl methacrylate	69	9.825	9.825	(0.893)	344275	40.0000	39.46

Data File: \\ELABNSH05\TARGET\chem\voa5.i\092211V5.b\0922CAL5.D
Report Date: 23-Sep-2011 07:07

Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	AMOUNTS CAL-AMT (ug/Kg)	AMOUNTS ON-COL (ug/Kg)
75 1,1,2-Trichloroethane	83	9.796	9.796	(0.891)	214093	40.0000	39.16
80 Tetrachloroethene	166	10.377	10.377	(0.944)	246123	40.0000	39.98
77 2-Hexanone	43	9.934	9.934	(0.903)	426477	80.0000	77.69
79 Dibromochloromethane	129	10.259	10.259	(0.933)	239617	40.0000	38.87
81 1,2-Dibromoethane	107	10.475	10.475	(0.953)	228454	40.0000	39.03
63 Methyl cyclohexane	83	8.742	8.742	(1.111)	531324	40.0000	41.15
* 82 Chlorobenzene-d5	82	10.997	10.997	(1.000)	360955	30.0000	
84 Chlorobenzene	112	11.037	11.037	(1.004)	672153	40.0000	40.18
85 1,1,1,2-Tetrachloroethane	131	11.076	11.076	(1.007)	218592	40.0000	40.63
83 1-Chlorohexane	91	10.997	10.997	(1.000)	426249	40.0000	40.42
86 Ethylbenzene	91	11.185	11.185	(1.017)	1256873	40.0000	40.09
87 m,p-Xylene	91	11.293	11.293	(1.027)	1800164	80.0000	83.02
M 119 Xylene(total)	91				2736363	120.000	124.8
89 o-Xylene	91	11.687	11.687	(1.063)	936199	40.0000	41.74
88 Styrene	104	11.657	11.657	(1.060)	702294	40.0000	40.84
90 Bromoform	173	11.756	11.756	(1.069)	143134	40.0000	39.82
91 cis-1,4-Dichloro-2-butene	53	11.835	11.835	(0.884)	67228	40.0000	39.00
94 Isopropylbenzene	105	12.081	12.081	(1.099)	1010197	40.0000	41.45
$ 97 Bromofluorobenzene	95	12.189	12.189	(1.108)	620477	70.0000	61.99
93 1,1,2,2-Tetrachloroethane	83	12.002	12.002	(0.896)	268141	40.0000	39.35
78 1,3-Dichloropropane	76	10.003	10.003	(0.910)	426498	40.0000	40.00
95 1,2,3-Trichloropropane	110	12.130	12.130	(1.103)	65397	40.0000	40.62
96 trans-1,4-Dichloro-2-butene	53	12.150	12.150	(0.907)	73841	40.0000	40.34
99 n-Propylbenzene	91	12.495	12.495	(0.933)	1335846	40.0000	42.11
102 1,3,5-Trimethylbenzene	105	12.672	12.672	(0.946)	756692	40.0000	41.88
106 1,2,4-Trimethylbenzene	105	13.036	13.036	(0.974)	697464	40.0000	41.71
107 sec-Butylbenzene	105	13.243	13.243	(0.989)	1063165	40.0000	42.83
105 tert-Butylbenzene	119	13.007	13.007	(0.971)	682574	40.0000	42.75
108 1,3-Dichlorobenzene	146	13.332	13.332	(0.996)	402553	40.0000	41.01
* 110 1,4-Dichlorobenzene-d4	152	13.391	13.391	(1.000)	237287	30.0000	
111 1,4-Dichlorobenzene	146	13.421	13.421	(1.002)	381020	40.0000	40.87
113 n-Butylbenzene	91	13.785	13.785	(1.029)	740523	40.0000	42.18
112 1,2-Dichlorobenzene	146	13.746	13.746	(1.026)	367667	40.0000	40.95
117 1,2-Dibromo-3-chloropropane	157	14.386	14.386	(1.074)	34999	40.0000	39.63
118 1,3,5-Trichlorobenzene	180	14.908	14.908	(1.113)	219138	40.0000	40.55
98 Bromobenzene	156	12.357	12.357	(0.923)	239798	40.0000	39.72
100 2-Chlorotoluene	91	12.573	12.573	(0.939)	807218	40.0000	40.85
101 4-Chlorotoluene	91	12.642	12.642	(0.944)	863275	40.0000	41.18
120 1,2,4-Trichlorobenzene	180	15.460	15.460	(1.154)	176876	40.0000	38.72
121 Naphthalene	128	15.617	15.617	(1.166)	273528	40.0000	38.22
109 p-Isopropyltoluene	119	13.381	13.381	(0.999)	678772	40.0000	41.86
122 Hexachlorobutadiene	225	15.745	15.745	(1.176)	141523	40.0000	39.88
123 1,2,3-Trichlorobenzene	180	15.903	15.903	(1.188)	158614	40.0000	38.21

Data File: \\ELABNSH05\TARGET\chem\voa5.i\092211V5.b\0922CAL5.D
Report Date: 23-Sep-2011 07:07

QC Flag Legend

T - Target compound detected outside RT window.

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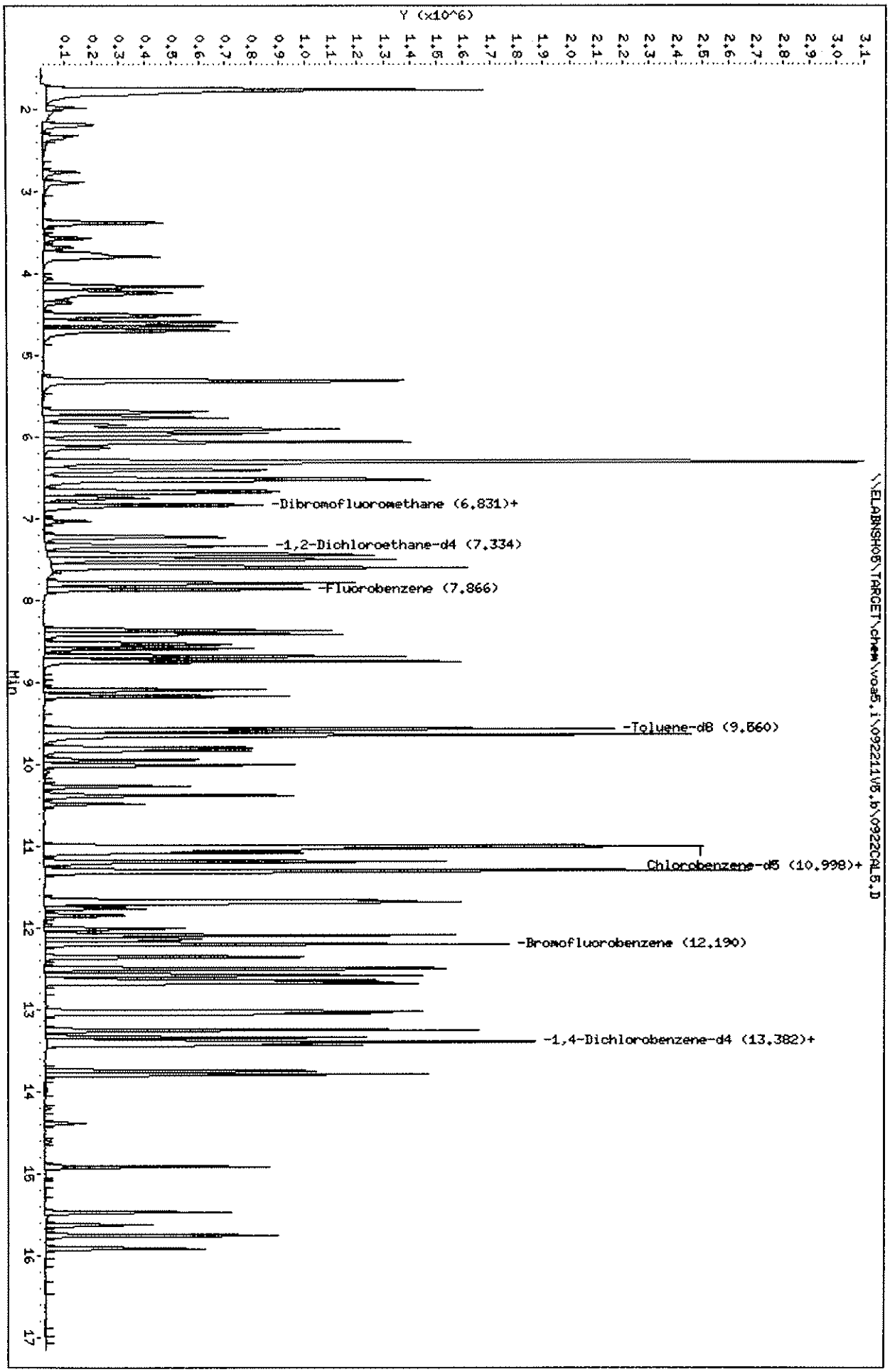
Sample Info: SEQ-CAL5;;;;;
Column phase: RTX-VRX

Instrument: voa5.i
Operator: ADM
Column diameter: 0.25



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Report Date: 23-Sep-2011 07:07

Laboratory Name

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Inj Date : 22-SEP-2011 16:37
Operator : ADM Inst ID: voa5.i
Smp Info : SEQ-CAL6;;;;;
Misc Info : ;;;;;8260.sub;
Comment :
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Meth Date : 23-Sep-2011 07:07 amonteiro Quant Type: ISTD
Cal Date : 22-SEP-2011 14:24 Cal File: 0922CAL1.D
Als bottle: 7 Calibration Sample, Level: 6
Dil Factor: 1.00000
Integrator: HP RTE Compound Sublist: 8260.sub
Target Version: 4.04
Processing Host: TARGET02_VM

Concentration Formula: Amt * DF * 5*Uf/(Ws*(Solids/100))

Name	Value	Description
DF	1.000	Dilution Factor
Uf	1.000	unit correction factor
Ws	5.000	Weight of sample extracted (g)
Solids	100.000	Percent Solids

mg 9/23/11

Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	AMOUNTS CAL-AMT (ug/Kg)	AMOUNTS ON-COL (ug/Kg)
* 55 Fluorobenzene	96	7.865	7.865	(1.000)	826324	30.0000	
1 Dichlorodifluoromethane	85	1.974	1.974	(0.251)	749807	100.000	109.6
2 Chloromethane	50	2.181	2.181	(0.277)	893226	100.000	104.4
3 Vinyl chloride	62	2.329	2.329	(0.296)	556581	100.000	121.1
4 Bromomethane	94	2.762	2.762	(0.351)	353126	100.000	107.5
5 Chloroethane	64	2.890	2.890	(0.368)	467962	100.000	100.9
7 Trichlorofluoromethane	101	3.383	3.383	(0.430)	1105915	100.000	97.51
11 Ethyl Ether	59	3.796	3.796	(0.483)	680251	100.000	101.2
10 Acetonitrile	41	3.757	3.757	(0.478)	1143618	1000.00	962.7
13 Trichlorotrifluoroethane	101	4.240	4.240	(0.539)	833903	100.000	102.2
8 Acrolein	56	3.570	3.570	(0.454)	550406	500.000	553.7
19 Allyl chloride	76	4.594	4.594	(0.584)	448212	100.000	104.4
12 1,1-Dichloroethene	96	4.161	4.161	(0.529)	779397	100.000	104.6
9 Acetone	43	3.678	3.678	(0.468)	479701	200.000	188.0
14 t-Butyl alcohol	59	4.289	4.289	(0.545)	344907	500.000	510.3

09/23/11

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	Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	AMOUNTS CAL-AMT (ug/Kg)	AMOUNTS ON-COL (ug/Kg)
	16 Iodomethane	142	4.348	4.348	(0.553)	567618	100.000	98.08
	22 Carbon disulfide	76	4.693	4.693	(0.597)	3000677	100.000	102.2
	20 Methylene chloride	84	4.644	4.644	(0.590)	908290	100.000	94.48
	18 Acrylonitrile	53	4.515	4.515	(0.574)	1269737	500.000	510.3
	24 trans-1,2-Dichloroethene	96	5.313	5.313	(0.676)	809903	100.000	102.2
	23 MTBE	73	5.303	5.303	(0.674)	1854878	100.000	101.6
	26 1,1-Dichloroethane	63	5.688	5.688	(0.723)	1743232	100.000	102.6
	28 Propionitrile	54	5.855	5.855	(0.745)	909907	1000.00	1014
	27 Vinyl acetate	43	5.757	5.757	(0.732)	2798852	200.000	206.3
	30 Chloroprene	53	5.954	5.954	(0.757)	1431599	100.000	105.5
	33 Di-isopropyl ether	45	6.062	6.062	(0.771)	3777903	100.000	102.9
	37 cis-1,2-Dichloroethene	96	6.407	6.407	(0.815)	861190	100.000	102.9
M	6 1,2-Dichloroethene(total)	96				1671093	200.000	205.1
	34 2-Butanone	43	6.131	6.131	(0.780)	906656	200.000	202.0
	36 Methacrylonitrile	41	6.308	6.308	(0.802)	4357054	1000.00	948.2
	29 Hexane	57	5.904	5.904	(0.751)	1453748	100.000	100.5
	42 Bromochloromethane	128	6.683	6.683	(0.850)	346844	100.000	101.9
	43 Isobutyl alcohol	42	6.742	6.742	(0.857)	429522	2000.00	2111
	45 Tetrahydrofuran	42	6.870	6.870	(0.874)	238364	100.000	99.74
	46 tert-Amyl alcohol	59	7.027	7.027	(0.894)	286303	500.000	533.2
	41 Chloroform	83	6.663	6.663	(0.847)	1466804	100.000	101.6
	17 Methyl acetate	43	4.496	4.496	(0.572)	613012	100.000	97.51
$	44 Dibromofluoromethane	111	6.830	6.830	(0.868)	220058	30.0000	31.10
	47 1,1,1-Trichloroethane	97	7.224	7.224	(0.919)	1091897	100.000	105.6
	40 ETBE	59	6.535	6.535	(0.831)	2584013	100.000	102.1
	51 Cyclohexane	56	7.500	7.500	(0.954)	1626150	100.000	101.6
	52 Carbon tetrachloride	117	7.569	7.569	(0.962)	833635	100.000	106.0
$	48 1,2-Dichloroethane-d4	102	7.333	7.333	(0.932)	44444	30.0000	30.57
	53 Benzene	78	7.599	7.599	(0.966)	3201720	100.000	100.7
	54 tert-Amyl Methyl Ether	73	7.786	7.786	(0.990)	2120325	100.000	104.2
	49 1,2-Dichloroethane	62	7.421	7.421	(0.944)	1017867	100.000	101.3
	39 2,2-Dichloropropane	77	6.515	6.515	(0.828)	1093380	100.000	101.4
	50 1,1-Dichloropropene	75	7.451	7.451	(0.947)	1191789	100.000	101.2
	56 Trichloroethene	95	8.367	8.367	(1.064)	885830	100.000	102.0
	60 1,4-Dioxane	88	8.564	8.564	(1.089)	115572	2000.00	1856
	57 1,2-Dichloropropane	63	8.416	8.416	(1.070)	998702	100.000	102.7
	58 Dibromomethane	93	8.525	8.525	(1.084)	513089	100.000	104.2
	59 Methyl methacrylate	41	7.500	7.500	(0.954)	1007357	100.000	99.31
	61 Bromodichloromethane	83	8.593	8.593	(1.093)	1103093	100.000	105.6
	62 tert-Amyl Ethyl Ether	59	8.682	8.682	(1.104)	2005845	100.000	101.5
	66 2-Chloroethyl vinyl ether	63	9.017	9.017	(1.147)	4658	200.000	214.6(TA)
	70 cis-1,3-Dichloropropene	75	9.165	9.165	(1.165)	1250262	100.000	104.5
	69 4-Methyl-2-pentanone	43	9.086	9.086	(1.155)	1526802	200.000	200.5
$	71 Toluene-d8	98	9.569	9.569	(0.870)	718503	30.0000	31.25
	74 Toluene	92	9.647	9.647	(0.877)	1662930	100.000	100.2
	73 trans-1,3-Dichloropropene	75	9.638	9.638	(0.876)	1026262	100.000	102.5
	76 Ethyl methacrylate	69	9.835	9.835	(0.894)	905419	100.000	107.1

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Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	AMOUNTS CAL-AMT (ug/Kg)	AMOUNTS ON-COL (ug/Kg)
75 1,1,2-Trichloroethane	83	9.795	9.795	(0.891)	552823	100.000	104.3
80 Tetrachloroethene	166	10.376	10.376	(0.944)	611478	100.000	102.5
77 2-Hexanone	43	9.943	9.943	(0.904)	1082885	200.000	203.5
79 Dibromochloromethane	129	10.268	10.268	(0.934)	635848	100.000	106.4
81 1,2-Dibromoethane	107	10.485	10.485	(0.953)	600370	100.000	105.8
63 Methyl cyclohexane	83	8.741	8.741	(1.111)	1340859	100.000	102.4
* 82 Chlorobenzene-d5	82	10.997	10.997	(1.000)	349845	30.0000	
84 Chlorobenzene	112	11.036	11.036	(1.004)	1671547	100.000	103.1
85 1,1,1,2-Tetrachloroethane	131	11.076	11.076	(1.007)	549630	100.000	105.4
83 1-Chlorohexane	91	11.007	11.007	(1.001)	1054326	100.000	103.2(A)
86 Ethylbenzene	91	11.184	11.184	(1.017)	3146528	100.000	103.6
87 m,p-Xylene	91	11.302	11.302	(1.028)	4235265	200.000	201.5
M 119 Xylene(total)	91				6508521	300.000	306.1
89 o-Xylene	91	11.686	11.686	(1.063)	2273256	100.000	104.6
88 Styrene	104	11.657	11.657	(1.060)	1801472	100.000	108.1
90 Bromoform	173	11.765	11.765	(1.070)	387644	100.000	111.3
91 cis-1,4-Dichloro-2-butene	53	11.844	11.844	(0.884)	181894	100.000	102.5
94 Isopropylbenzene	105	12.090	12.090	(1.099)	2521018	100.000	106.7
$ 97 Bromofluorobenzene	95	12.199	12.199	(1.109)	319216	30.0000	32.90
93 1,1,2,2-Tetrachloroethane	83	12.011	12.011	(0.896)	701074	100.000	99.96
78 1,3-Dichloropropane	76	10.012	10.012	(0.910)	1088250	100.000	105.3
95 1,2,3-Trichloropropane	110	12.130	12.130	(1.103)	163738	100.000	104.9
96 trans-1,4-Dichloro-2-butene	53	12.159	12.159	(0.907)	191562	100.000	101.7
99 n-Propylbenzene	91	12.494	12.494	(0.932)	3390473	100.000	103.8
102 1,3,5-Trimethylbenzene	105	12.671	12.671	(0.946)	1915846	100.000	103.0
106 1,2,4-Trimethylbenzene	105	13.046	13.046	(0.974)	1803715	100.000	104.8
107 sec-Butylbenzene	105	13.253	13.253	(0.989)	2759613	100.000	108.0
105 tert-Butylbenzene	119	13.016	13.016	(0.971)	1757217	100.000	106.9
108 1,3-Dichlorobenzene	146	13.341	13.341	(0.996)	1017014	100.000	100.6
* 110 1,4-Dichlorobenzene-d4	152	13.400	13.400	(1.000)	244241	30.0000	
111 1,4-Dichlorobenzene	146	13.430	13.430	(1.002)	975859	100.000	101.7
113 n-Butylbenzene	91	13.785	13.785	(1.029)	1979928	100.000	109.6
112 1,2-Dichlorobenzene	146	13.745	13.745	(1.026)	943042	100.000	102.0
117 1,2-Dibromo-3-chloropropane	157	14.385	14.385	(1.074)	95687	100.000	105.3
118 1,3,5-Trichlorobenzene	180	14.917	14.917	(1.113)	582906	100.000	104.8
98 Bromobenzene	156	12.356	12.356	(0.922)	616522	100.000	99.21
100 2-Chlorotoluene	91	12.583	12.583	(0.939)	2002713	100.000	98.46
101 4-Chlorotoluene	91	12.642	12.642	(0.943)	2208934	100.000	102.4
120 1,2,4-Trichlorobenzene	180	15.469	15.469	(1.154)	486813	100.000	103.5
121 Naphthalene	128	15.617	15.617	(1.165)	681051	100.000	93.94
109 p-Isopropyltoluene	119	13.391	13.391	(0.999)	1785126	100.000	106.9
122 Hexachlorobutadiene	225	15.755	15.755	(1.176)	394952	100.000	108.1
123 1,2,3-Trichlorobenzene	180	15.902	15.902	(1.187)	431587	100.000	101.0

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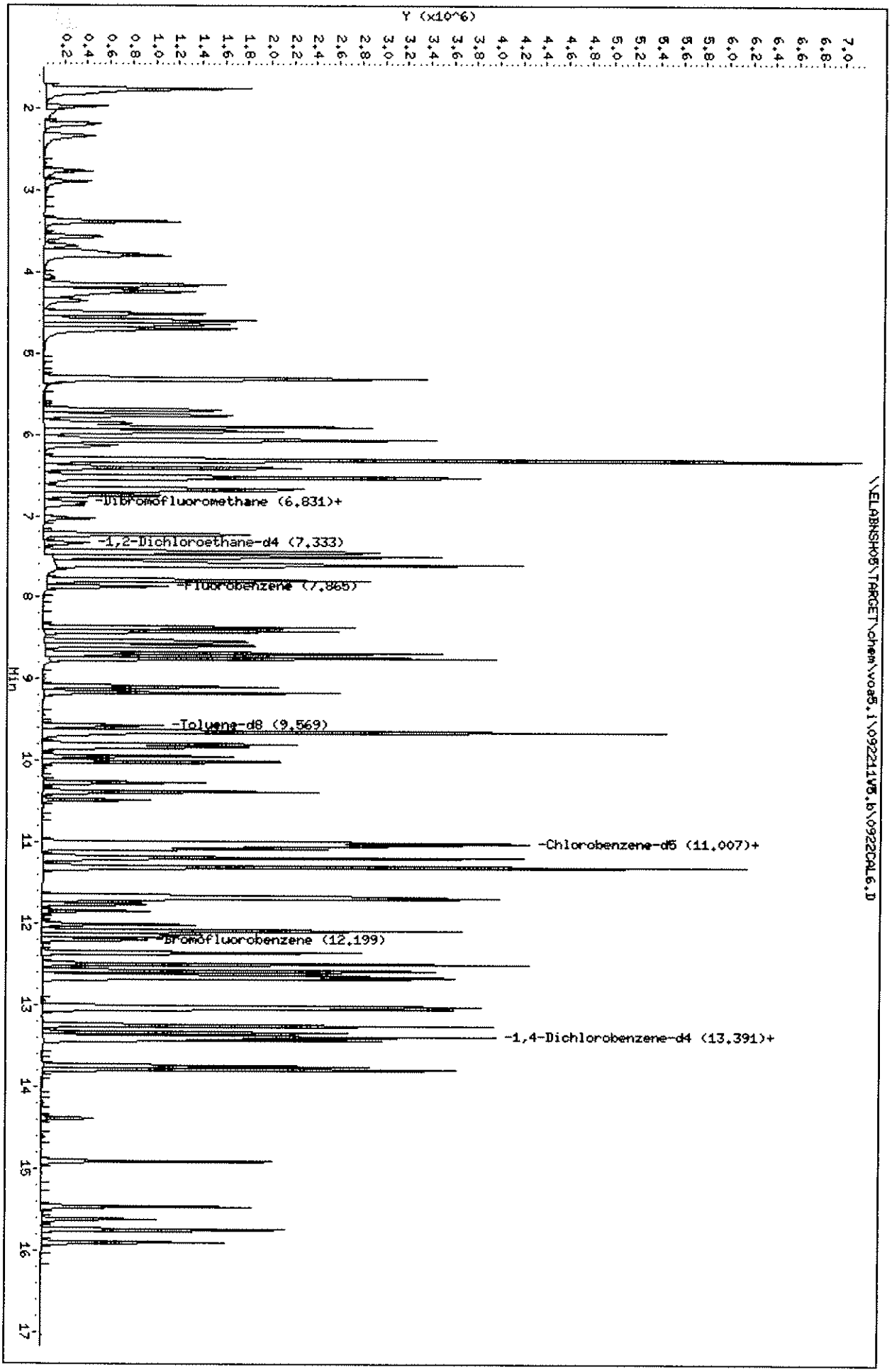
QC Flag Legend

T - Target compound detected outside RT window.
A - Target compound detected but, quantitated amount exceeded maximum amount.

Data File: \\ELABNSHO5\TARGET\chem\voa5.i\092211V5.b\0922CAL6.D
Date : 22-SEP-2011 16:37
Client ID: SEQ-CAL6
Sample Info: SEQ-CAL6;;;;;
Column phase: RTX-VRX

Instrument: voa5.i
Operator: ADH
Column diameter: 0.25



Data File: \\ELABNSH05\TARGET\chem\voa5.i\092211V5.b\0922CAL7.D
Report Date: 23-Sep-2011 07:07

Laboratory Name

Data file : \\ELABNSH05\TARGET\chem\voa5.i\092211V5.b\0922CAL7.D
Lab Smp Id: SEQ-CAL7 Client Smp ID: SEQ-CAL7
Inj Date : 22-SEP-2011 17:03
Operator : ADM Inst ID: voa5.i
Smp Info : SEQ-CAL7;;;;;
Misc Info : ;;;;;8260.sub;
Comment :
Method : \\ELABNSH05\TARGET\chem\voa5.i\092211V5.b\VS5SUR.m
Meth Date : 23-Sep-2011 07:07 amonteiro Quant Type: ISTD
Cal Date : 22-SEP-2011 14:24 Cal File: 0922CAL1.D
Als bottle: 8 Calibration Sample, Level: 7
Dil Factor: 1.00000
Integrator: HP RTE Compound Sublist: 8260.sub
Target Version: 4.04
Processing Host: TARGET02_VM

Concentration Formula: Amt * DF * 5*Uf/(Ws*(Solids/100))

Name	Value	Description
DF	1.000	Dilution Factor
Uf	1.000	unit correction factor
Ws	5.000	Weight of sample extracted (g)
Solids	100.000	Percent Solids

MA 9/23/11

Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	AMOUNTS CAL-AMT (ug/Kg)	AMOUNTS ON-COL (ug/Kg)
* 55 Fluorobenzene	96	7.857	7.857	(1.000)	829022	30.0000	
1 Dichlorodifluoromethane	85	1.976	1.976	(0.252)	1126303	150.000	164.1
2 Chloromethane	50	2.183	2.183	(0.278)	1340845	150.000	156.2
3 Vinyl chloride	62	2.331	2.331	(0.297)	799974	150.000	173.5
4 Bromomethane	94	2.764	2.764	(0.352)	565295	150.000	171.5
5 Chloroethane	64	2.892	2.892	(0.368)	695228	150.000	149.4
7 Trichlorofluoromethane	101	3.385	3.385	(0.431)	1810203	150.000	159.1
11 Ethyl Ether	59	3.799	3.799	(0.484)	1055915	150.000	156.6
10 Acetonitrile	41	3.749	3.749	(0.477)	1707315	1500.00	1432
13 Trichlorotrifluoroethane	101	4.232	4.232	(0.539)	1266253	150.000	154.6
8 Acrolein	56	3.572	3.572	(0.455)	850413	750.000	852.7
19 Allyl chloride	76	4.596	4.596	(0.585)	687870	150.000	159.6
12 1,1-Dichloroethene	96	4.153	4.153	(0.529)	1172609	150.000	156.9
9 Acetone	43	3.680	3.680	(0.468)	728272	300.000	284.5
14 t-Butyl alcohol	59	4.291	4.291	(0.546)	536578	750.000	791.3

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	Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	AMOUNTS CAL-AMT (ug/Kg)	AMOUNTS ON-COL (ug/Kg)
	16 Iodomethane	142	4.350	4.350	(0.554)	912094	150.000	152.7
	22 Carbon disulfide	76	4.695	4.695	(0.598)	4459554	150.000	151.4
	20 Methylene chloride	84	4.636	4.636	(0.590)	1367203	150.000	141.8
	18 Acrylonitrile	53	4.518	4.518	(0.575)	1887102	750.000	755.9
	24 trans-1,2-Dichloroethene	96	5.316	5.316	(0.677)	1166205	150.000	146.7
	23 MTBE	73	5.306	5.306	(0.675)	2771583	150.000	151.4
	26 1,1-Dichloroethane	63	5.690	5.690	(0.724)	2587953	150.000	151.8
	28 Propionitrile	54	5.857	5.857	(0.746)	1255983	1500.00	1395
	27 Vinyl acetate	43	5.759	5.759	(0.733)	4118735	300.000	302.6
	30 Chloroprene	53	5.956	5.956	(0.758)	2092245	150.000	153.6
	33 Di-isopropyl ether	45	6.054	6.054	(0.771)	5415893	150.000	147.0
	37 cis-1,2-Dichloroethene	96	6.409	6.409	(0.816)	1274629	150.000	151.8
M	6 1,2-Dichloroethene(total)	96				2440834	300.000	298.4
	34 2-Butanone	43	6.133	6.133	(0.781)	1317762	300.000	292.6
	36 Methacrylonitrile	41	6.310	6.310	(0.803)	6088702	1500.00	1321
	29 Hexane	57	5.907	5.907	(0.752)	2032608	150.000	140.1
	42 Bromochloromethane	128	6.685	6.685	(0.851)	513109	150.000	150.3
	43 Isobutyl alcohol	42	6.744	6.744	(0.858)	627111	3000.00	3072
	45 Tetrahydrofuran	42	6.862	6.862	(0.873)	353648	150.000	147.5
	46 tert-Amyl alcohol	59	7.029	7.029	(0.895)	434384	750.000	806.4
	41 Chloroform	83	6.655	6.655	(0.847)	2162536	150.000	149.2
	17 Methyl acetate	43	4.498	4.498	(0.573)	916214	150.000	145.3
$	44 Dibromofluoromethane	111	6.832	6.832	(0.870)	224630	30.0000	31.64
	47 1,1,1-Trichloroethane	97	7.226	7.226	(0.920)	1621050	150.000	156.3
	40 ETBE	59	6.527	6.527	(0.831)	3740259	150.000	147.3
	51 Cyclohexane	56	7.492	7.492	(0.954)	2419072	150.000	150.7
	52 Carbon tetrachloride	117	7.561	7.561	(0.962)	1247035	150.000	158.1
$	48 1,2-Dichloroethane-d4	102	7.335	7.335	(0.934)	43546	30.0000	29.85
	53 Benzene	78	7.601	7.601	(0.967)	4668241	150.000	146.3
	54 tert-Amyl Methyl Ether	73	7.788	7.788	(0.991)	3128936	150.000	153.3
	49 1,2-Dichloroethane	62	7.424	7.424	(0.945)	1520646	150.000	150.8
	39 2,2-Dichloropropane	77	6.507	6.507	(0.828)	1648206	150.000	152.4
	50 1,1-Dichloropropene	75	7.443	7.443	(0.947)	1772450	150.000	150.1
	56 Trichloroethene	95	8.359	8.359	(1.064)	1297321	150.000	148.9
	60 1,4-Dioxane	88	8.566	8.566	(1.090)	182479	3000.00	2922
	57 1,2-Dichloropropane	63	8.409	8.409	(1.070)	1463815	150.000	150.1
	58 Dibromomethane	93	8.517	8.517	(1.084)	755786	150.000	153.0
	59 Methyl methacrylate	41	7.492	7.492	(0.954)	1487016	150.000	146.1
	61 Bromodichloromethane	83	8.586	8.586	(1.093)	1623004	150.000	154.8
	62 tert-Amyl Ethyl Ether	59	8.674	8.674	(1.104)	2979292	150.000	150.3
	66 2-Chloroethyl vinyl ether	63	9.019	9.019	(1.148)	6987	300.000	320.8(A)
	70 cis-1,3-Dichloropropene	75	9.157	9.157	(1.165)	1873314	150.000	156.1
	69 4-Methyl-2-pentanone	43	9.088	9.088	(1.157)	2310310	300.000	302.4
$	71 Toluene-d8	98	9.561	9.561	(0.869)	741431	30.0000	32.90
	74 Toluene	92	9.640	9.640	(0.876)	2423456	150.000	149.0
	73 trans-1,3-Dichloropropene	75	9.640	9.640	(0.876)	1507876	150.000	153.6
	76 Ethyl methacrylate	69	9.827	9.827	(0.893)	1368190	150.000	165.0

Data File: \\ELABNSH05\TARGET\chem\voa5.i\092211V5.b\0922CAL7.D
Report Date: 23-Sep-2011 07:07

Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	AMOUNTS CAL-AMT (ug/Kg)	AMOUNTS ON-COL (ug/Kg)
75 1,1,2-Trichloroethane	83	9.788	9.788	(0.890)	820607	150.000	158.0
80 Tetrachloroethene	166	10.379	10.379	(0.944)	912282	150.000	156.0
77 2-Hexanone	43	9.935	9.935	(0.903)	1657005	300.000	317.7
79 Dibromochloromethane	129	10.260	10.260	(0.933)	969031	150.000	165.4
81 1,2-Dibromoethane	107	10.477	10.477	(0.953)	912028	150.000	164.0
63 Methyl cyclohexane	83	8.743	8.743	(1.113)	1968252	150.000	149.8
* 82 Chlorobenzene-d5	82	10.999	10.999	(1.000)	342968	30.0000	
84 Chlorobenzene	112	11.029	11.029	(1.003)	2439175	150.000	153.5
85 1,1,1,2-Tetrachloroethane	131	11.078	11.078	(1.007)	818695	150.000	160.2
83 1-Chlorohexane	91	10.999	10.999	(1.000)	1530263	150.000	152.7(A)
86 Ethylbenzene	91	11.186	11.186	(1.017)	4575042	150.000	153.6
87 m,p-Xylene	91	11.295	11.295	(1.027)	5949128	300.000	288.8
M 119 Xylene(total)	91				9274765	450.000	444.8
89 o-Xylene	91	11.689	11.689	(1.063)	3325637	150.000	156.1
88 Styrene	104	11.659	11.659	(1.060)	2682658	150.000	164.2
90 Bromoform	173	11.758	11.758	(1.069)	577263	150.000	169.0
91 cis-1,4-Dichloro-2-butene	53	11.836	11.836	(0.884)	277225	150.000	158.0
94 Isopropylbenzene	105	12.083	12.083	(1.099)	3666993	150.000	158.3(A)
$ 97 Bromofluorobenzene	95	12.191	12.191	(1.108)	325969	30.0000	34.27
93 1,1,2,2-Tetrachloroethane	83	12.004	12.004	(0.896)	1027440	150.000	148.1
78 1,3-Dichloropropane	76	10.004	10.004	(0.910)	1630282	150.000	160.9
95 1,2,3-Trichloropropane	110	12.132	12.132	(1.103)	247244	150.000	161.6
96 trans-1,4-Dichloro-2-butene	53	12.152	12.152	(0.907)	290474	150.000	155.9
99 n-Propylbenzene	91	12.487	12.487	(0.932)	4845432	150.000	150.0
102 1,3,5-Trimethylbenzene	105	12.674	12.674	(0.946)	2829000	150.000	153.8
106 1,2,4-Trimethylbenzene	105	13.038	13.038	(0.974)	2694049	150.000	158.2
107 sec-Butylbenzene	105	13.245	13.245	(0.989)	3967523	150.000	157.0
105 tert-Butylbenzene	119	13.009	13.009	(0.971)	2590113	150.000	159.3
108 1,3-Dichlorobenzene	146	13.334	13.334	(0.996)	1491656	150.000	149.2
* 110 1,4-Dichlorobenzene-d4	152	13.393	13.393	(1.000)	241603	30.0000	
111 1,4-Dichlorobenzene	146	13.422	13.422	(1.002)	1426723	150.000	150.3
113 n-Butylbenzene	91	13.787	13.787	(1.029)	2929667	150.000	163.9
112 1,2-Dichlorobenzene	146	13.747	13.747	(1.026)	1393433	150.000	152.4
117 1,2-Dibromo-3-chloropropane	157	14.388	14.388	(1.074)	141431	150.000	157.3
118 1,3,5-Trichlorobenzene	180	14.910	14.910	(1.113)	909144	150.000	165.2
98 Bromobenzene	156	12.358	12.358	(0.923)	914836	150.000	148.8
100 2-Chlorotoluene	91	12.575	12.575	(0.939)	3041236	150.000	151.1
101 4-Chlorotoluene	91	12.634	12.634	(0.943)	3185042	150.000	149.2
120 1,2,4-Trichlorobenzene	180	15.461	15.461	(1.154)	762507	150.000	163.9
121 Naphthalene	128	15.619	15.619	(1.166)	1099174	150.000	153.9
109 p-Isopropyltoluene	119	13.383	13.383	(0.999)	2697405	150.000	163.4
122 Hexachlorobutadiene	225	15.747	15.747	(1.176)	602623	150.000	166.8
123 1,2,3-Trichlorobenzene	180	15.905	15.905	(1.188)	681348	150.000	161.2

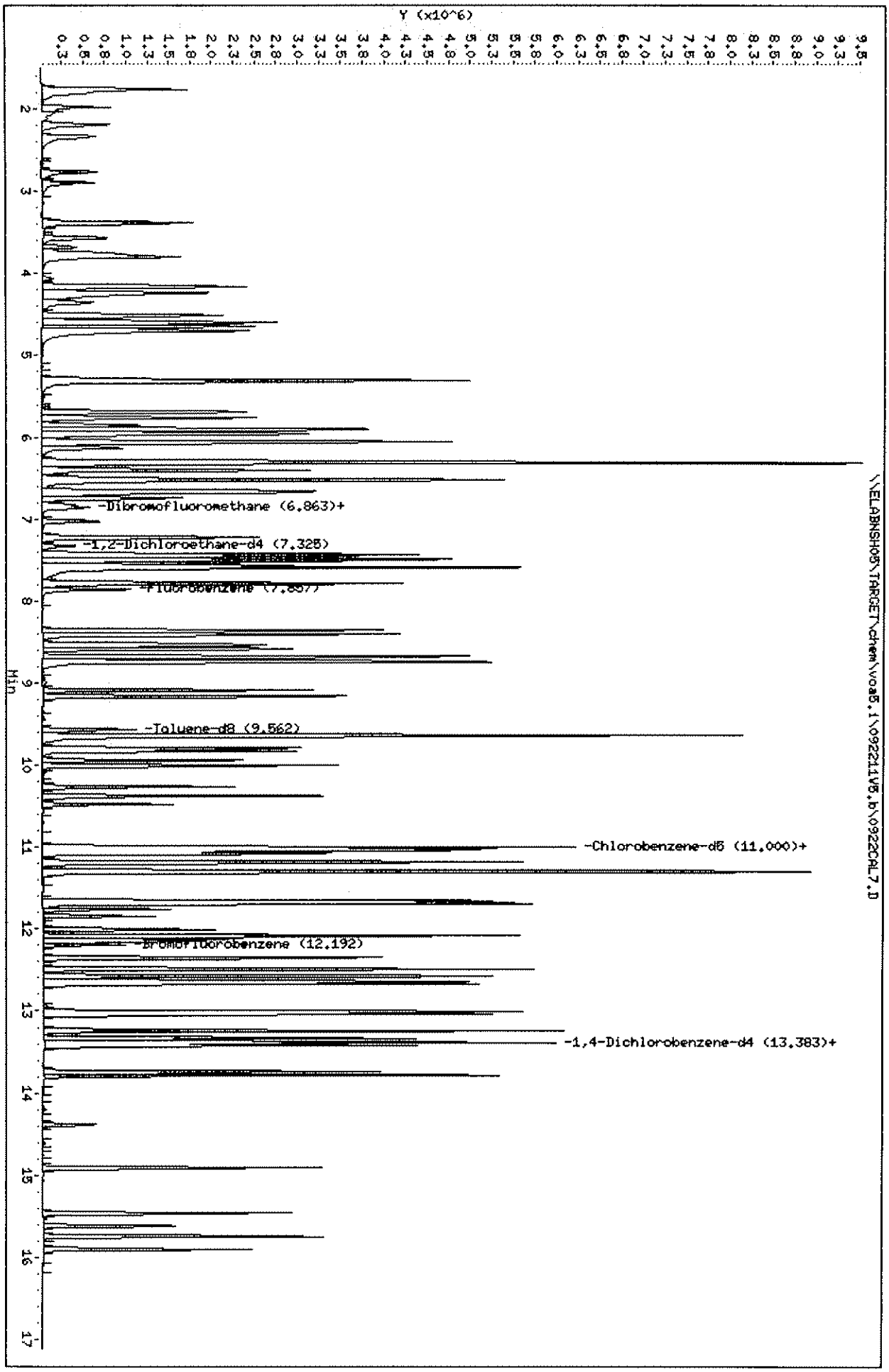
Data File: \\ELABNSH05\TARGET\chem\voa5.i\092211V5.b\0922CAL7.D
Report Date: 23-Sep-2011 07:07

QC Flag Legend

A - Target compound detected but, quantitated amount exceeded maximum amount.

Data File: \\ELABNSH05\TARGET\chem\voa5.i\092211V5.b\0922CAL7.D
Date : 22-SEP-2011 17:03
Client ID: SEQ-CAL7
Sample Info: SEQ-CAL7;;;;;
Column phase: RTX-VRX

Instrument: voa5.i
Operator: ADM
Column diameter: 0.25



Data File: \\ELABNSH05\TARGET\chem\voa5.i\092211V5.b\0922CAL8.D
Report Date: 23-Sep-2011 07:07

Laboratory Name

Data file : \\ELABNSH05\TARGET\chem\voa5.i\092211V5.b\0922CAL8.D
Lab Smp Id: SEQ-CAL8 Client Smp ID: SEQ-CAL8
Inj Date : 22-SEP-2011 17:30
Operator : ADM Inst ID: voa5.i
Smp Info : SEQ-CAL8;;;;;
Misc Info : ;;;;;8260.sub;
Comment :
Method : \\ELABNSH05\TARGET\chem\voa5.i\092211V5.b\VS5SUR.m
Meth Date : 23-Sep-2011 07:07 amonteiro Quant Type: ISTD
Cal Date : 22-SEP-2011 17:30 Cal File: 0922CAL8.D
Als bottle: 9 Calibration Sample, Level: 8
Dil Factor: 1.00000
Integrator: HP RTE Compound Sublist: 8260.sub
Target Version: 4.04
Processing Host: TARGET02_VM

Concentration Formula: Amt * DF * 5*Uf/(Ws*(Solids/100))

Name	Value	Description
DF	1.000	Dilution Factor
Uf	1.000	unit correction factor
Ws	5.000	Weight of sample extracted (g)
Solids	100.000	Percent Solids

MG 9/23/11

Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	AMOUNTS CAL-AMT (ug/Kg)	ON-COL (ug/Kg)
* 55 Fluorobenzene	96	7.864	7.864	(1.000)	881312	30.0000	
1 Dichlorodifluoromethane	85	1.974	1.974	(0.251)	1501753	200.000	205.8(A)
2 Chloromethane	50	2.190	2.190	(0.279)	1846555	200.000	202.3(A)
3 Vinyl chloride	62	2.328	2.328	(0.296)	1051978	200.000	214.6(A)
4 Bromomethane	94	2.762	2.762	(0.351)	793179	200.000	226.4(A)
5 Chloroethane	64	2.890	2.890	(0.367)	989126	200.000	200.0
7 Trichlorofluoromethane	101	3.382	3.382	(0.430)	2451102	200.000	202.6(A)
11 Ethyl Ether	59	3.796	3.796	(0.483)	1431123	200.000	199.6
10 Acetonitrile	41	3.756	3.756	(0.478)	2404214	2000.00	1898
13 Trichlorotrifluoroethane	101	4.239	4.239	(0.539)	1720249	200.000	197.6
8 Acrolein	56	3.569	3.569	(0.454)	1224423	1000.00	1155(A)
19 Allyl chloride	76	4.594	4.594	(0.584)	943880	200.000	206.0(A)
12 1,1-Dichloroethene	96	4.160	4.160	(0.529)	1605509	200.000	202.1(A)
9 Acetone	43	3.678	3.678	(0.468)	1040357	400.000	382.3
14 t-Butyl alcohol	59	4.288	4.288	(0.545)	789162	1000.00	1095(A)

CM 9/28/11

Data File: \\ELABNSH05\TARGET\chem\voa5.i\092211V5.b\0922CAL8.D
Report Date: 23-Sep-2011 07:07

	Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	AMOUNTS CAL-AMT (ug/Kg)	AMOUNTS ON-COL (ug/Kg)
	16 Iodomethane	142	4.357	4.357	(0.554)	1284804	200.000	200.0
	22 Carbon disulfide	76	4.702	4.702	(0.598)	6044710	200.000	193.0
	20 Methylene chloride	84	4.643	4.643	(0.590)	1865152	200.000	181.9
	18 Acrylonitrile	53	4.515	4.515	(0.574)	2629616	1000.00	990.9
	24 trans-1,2-Dichloroethene	96	5.313	5.313	(0.676)	1633395	200.000	193.2
	23 MTBE	73	5.303	5.303	(0.674)	3808903	200.000	195.7
	26 1,1-Dichloroethane	63	5.687	5.687	(0.723)	3541689	200.000	195.4
	28 Propionitrile	54	5.855	5.855	(0.744)	1932352	2000.00	2018(A)
	27 Vinyl acetate	43	5.766	5.766	(0.733)	5516733	400.000	381.3
	30 Chloroprene	53	5.953	5.953	(0.757)	2861378	200.000	197.7
	33 Di-isopropyl ether	45	6.061	6.061	(0.771)	7240429	200.000	184.8
	37 cis-1,2-Dichloroethene	96	6.406	6.406	(0.815)	1707612	200.000	191.2
M	6 1,2-Dichloroethene(total)	96				3341007	400.000	384.5
	34 2-Butanone	43	6.130	6.130	(0.780)	1913642	400.000	399.7
	36 Methacrylonitrile	41	6.318	6.318	(0.803)	7953991	2000.00	1623
	29 Hexane	57	5.904	5.904	(0.751)	2950889	200.000	191.3
	42 Bromochloromethane	128	6.682	6.682	(0.850)	676194	200.000	186.3
	43 Isobutyl alcohol	42	6.751	6.751	(0.858)	935158	4000.00	4309(A)
	45 Tetrahydrofuran	42	6.859	6.859	(0.872)	495536	200.000	194.4
	46 tert-Amyl alcohol	59	7.027	7.027	(0.894)	647587	1000.00	1131(A)
	41 Chloroform	83	6.662	6.662	(0.847)	2876336	200.000	186.7
	17 Methyl acetate	43	4.495	4.495	(0.572)	1293596	200.000	192.9
$	44 Dibromofluoromethane	111	6.830	6.830	(0.868)	231039	30.0000	30.61
	47 1,1,1-Trichloroethane	97	7.224	7.224	(0.919)	2173503	200.000	197.2
	40 ETBE	59	6.534	6.534	(0.831)	4973646	200.000	184.2
	51 Cyclohexane	56	7.500	7.500	(0.954)	3169472	200.000	185.8
	52 Carbon tetrachloride	117	7.568	7.568	(0.962)	1698321	200.000	202.5(A)
$	48 1,2-Dichloroethane-d4	102	7.332	7.332	(0.932)	45856	30.0000	29.57
	53 Benzene	78	7.598	7.598	(0.966)	6153877	200.000	181.4
	54 tert-Amyl Methyl Ether	73	7.785	7.785	(0.990)	4242122	200.000	195.5
	49 1,2-Dichloroethane	62	7.421	7.421	(0.944)	2050691	200.000	191.3
	39 2,2-Dichloropropane	77	6.515	6.515	(0.828)	2215279	200.000	192.7
	50 1,1-Dichloropropene	75	7.450	7.450	(0.947)	2389283	200.000	190.3
	56 Trichloroethene	95	8.357	8.357	(1.063)	1751247	200.000	189.0
	60 1,4-Dioxane	88	8.563	8.563	(1.089)	249130	4000.00	3752
	57 1,2-Dichloropropane	63	8.406	8.406	(1.069)	1937427	200.000	186.8
	58 Dibromomethane	93	8.524	8.524	(1.084)	1008335	200.000	192.1
	59 Methyl methacrylate	41	7.500	7.500	(0.954)	1977972	200.000	182.8
	61 Bromodichloromethane	83	8.583	8.583	(1.091)	2204666	200.000	197.8
	62 tert-Amyl Ethyl Ether	59	8.682	8.682	(1.104)	4023651	200.000	190.9
	66 2-Chloroethyl vinyl ether	63	9.016	9.016	(1.147)	9728	400.000	420.2(A)
	70 cis-1,3-Dichloropropene	75	9.164	9.164	(1.165)	2500684	200.000	196.0
	69 4-Methyl-2-pentanone	43	9.085	9.085	(1.155)	3222127	400.000	396.7
$	71 Toluene-d8	98	9.558	9.558	(0.869)	762873	30.0000	32.77
	74 Toluene	92	9.637	9.637	(0.876)	3156043	200.000	187.9
	73 trans-1,3-Dichloropropene	75	9.637	9.637	(0.876)	2025608	200.000	199.8
	76 Ethyl methacrylate	69	9.824	9.824	(0.893)	1850823	200.000	216.1(A)

Data File: \\ELABNSH05\TARGET\chem\voa5.i\092211V5.b\0922CAL8.D
Report Date: 23-Sep-2011 07:07

Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	AMOUNTS CAL-AMT (ug/Kg)	AMOUNTS ON-COL (ug/Kg)
75 1,1,2-Trichloroethane	83	9.795	9.795	(0.891)	1094026	200.000	203.9(A)
80 Tetrachloroethene	166	10.376	10.376	(0.944)	1218670	200.000	201.7(A)
77 2-Hexanone	43	9.942	9.942	(0.904)	2296039	400.000	426.2(A)
79 Dibromochloromethane	129	10.267	10.267	(0.934)	1304280	200.000	215.6(A)
81 1,2-Dibromoethane	107	10.474	10.474	(0.953)	1236676	200.000	215.3(A)
63 Methyl cyclohexane	83	8.741	8.741	(1.111)	2618978	200.000	187.5
* 82 Chlorobenzene-d5	82	10.996	10.996	(1.000)	354232	30.0000	
84 Chlorobenzene	112	11.036	11.036	(1.004)	3131271	200.000	190.8
85 1,1,1,2-Tetrachloroethane	131	11.075	11.075	(1.007)	1090571	200.000	206.6(A)
83 1-Chlorohexane	91	10.996	10.996	(1.000)	1983698	200.000	191.7(A)
86 Ethylbenzene	91	11.184	11.184	(1.017)	5871010	200.000	190.8
87 m,p-Xylene	91	11.292	11.292	(1.027)	7495794	400.000	352.3
M 119 Xylene(total)	91				11801609	600.000	547.9
89 o-Xylene	91	11.686	11.686	(1.063)	4305815	200.000	195.6
88 Styrene	104	11.656	11.656	(1.060)	3487158	200.000	206.6(A)
90 Bromoform	173	11.755	11.755	(1.069)	789961	200.000	224.0(A)
91 cis-1,4-Dichloro-2-butene	53	11.843	11.843	(0.884)	379644	200.000	217.5(A)
94 Isopropylbenzene	105	12.080	12.080	(1.099)	4761435	200.000	199.1(A)
$ 97 Bromofluorobenzene	95	12.188	12.188	(1.108)	325695	30.0000	33.16
93 1,1,2,2-Tetrachloroethane	83	12.001	12.001	(0.896)	1403784	200.000	203.5(A)
78 1,3-Dichloropropane	76	10.001	10.001	(0.910)	2163666	200.000	206.8(A)
95 1,2,3-Trichloropropane	110	12.129	12.129	(1.103)	333040	200.000	210.8(A)
96 trans-1,4-Dichloro-2-butene	53	12.149	12.149	(0.907)	391642	200.000	211.3(A)
99 n-Propylbenzene	91	12.494	12.494	(0.932)	6159734	200.000	191.8
102 1,3,5-Trimethylbenzene	105	12.671	12.671	(0.946)	3701210	200.000	202.3(A)
106 1,2,4-Trimethylbenzene	105	13.045	13.045	(0.974)	3464513	200.000	204.6(A)
107 sec-Butylbenzene	105	13.242	13.242	(0.988)	5158008	200.000	205.2(A)
105 tert-Butylbenzene	119	13.016	13.016	(0.971)	3337818	200.000	206.4(A)
108 1,3-Dichlorobenzene	146	13.331	13.331	(0.995)	1954775	200.000	196.7
* 110 1,4-Dichlorobenzene-d4	152	13.400	13.400	(1.000)	240260	30.0000	
111 1,4-Dichlorobenzene	146	13.429	13.429	(1.002)	1841714	200.000	195.1
113 n-Butylbenzene	91	13.784	13.784	(1.029)	3761693	200.000	211.6(A)
112 1,2-Dichlorobenzene	146	13.745	13.745	(1.026)	1813630	200.000	199.5
117 1,2-Dibromo-3-chloropropane	157	14.385	14.385	(1.074)	192657	200.000	215.5(A)
118 1,3,5-Trichlorobenzene	180	14.907	14.907	(1.112)	1189261	200.000	217.4(A)
98 Bromobenzene	156	12.356	12.356	(0.922)	1177779	200.000	192.7
100 2-Chlorotoluene	91	12.572	12.572	(0.938)	3827737	200.000	191.3
101 4-Chlorotoluene	91	12.641	12.641	(0.943)	4138709	200.000	195.0
120 1,2,4-Trichlorobenzene	180	15.468	15.468	(1.154)	1022469	200.000	221.0(A)
121 Naphthalene	128	15.616	15.616	(1.165)	1573359	200.000	222.0(A)
109 p-Isopropyltoluene	119	13.380	13.380	(0.999)	3458158	200.000	210.6(A)
122 Hexachlorobutadiene	225	15.744	15.744	(1.175)	830285	200.000	231.0(A)
123 1,2,3-Trichlorobenzene	180	15.902	15.902	(1.187)	912576	200.000	217.1(A)

Data File: \\ELABNSH05\TARGET\chem\voa5.i\092211V5.b\0922CAL8.D
Report Date: 23-Sep-2011 07:07

QC Flag Legend

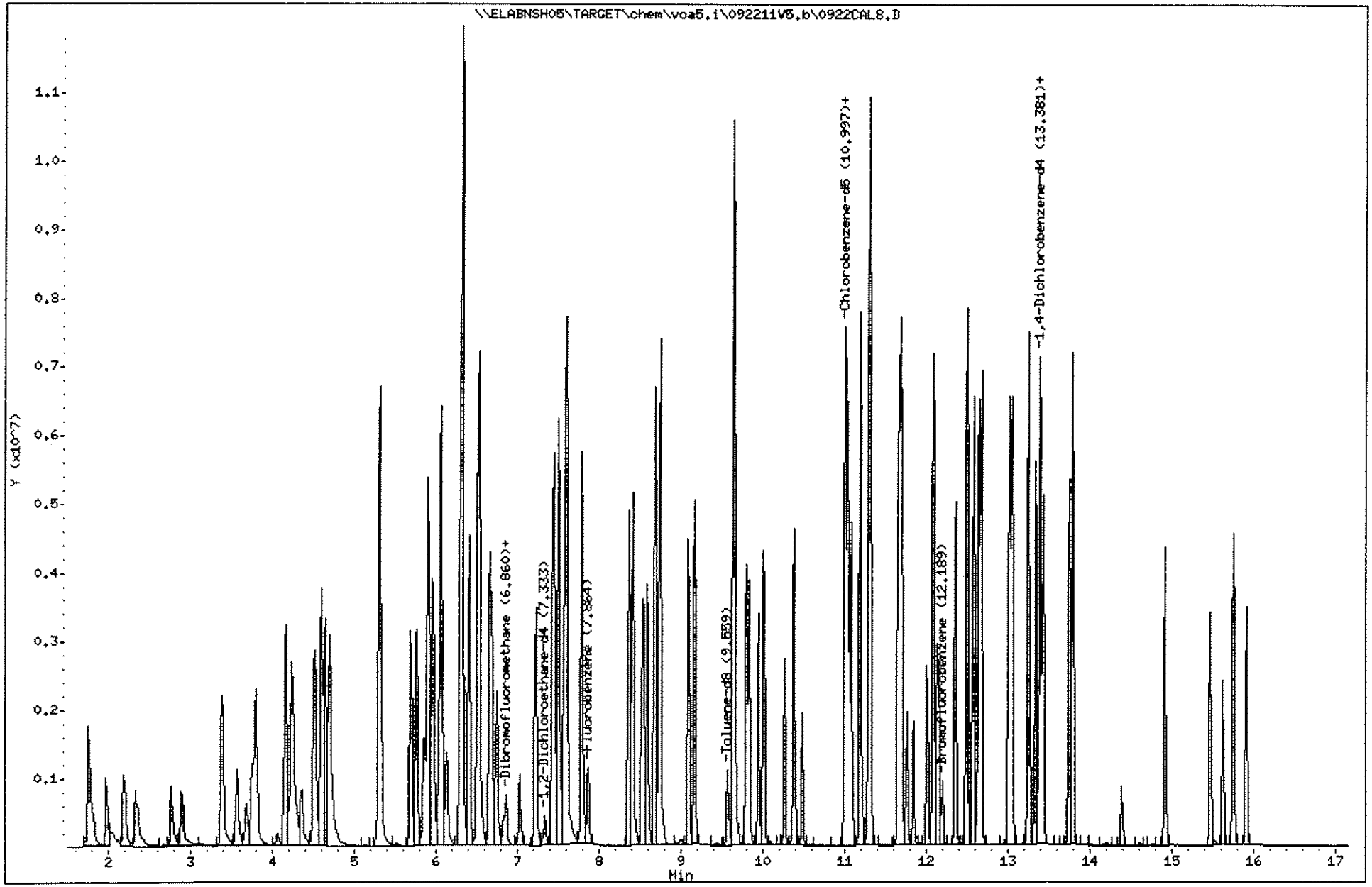
A - Target compound detected but, quantitated amount exceeded maximum amount.

Data File: \\ELABNSH05\TARGET\chem\voa5.i\092211V5.b\0922CAL8.D
Date : 22-SEP-2011 17:30
Client ID: SEQ-CAL8
Sample Info: SEQ-CAL8;;;;;

Column phase: RTX-VRX

Instrument: voa5.i

Operator: ADM
Column diameter: 0.25



229

1109191

Data File: \\ELABNSH05\TARGET\chem\voa5.i\092211V5.b\0922ICV2.D
Report Date: 23-Sep-2011 07:07

Laboratory Name

RECOVERY REPORT

Client Name:
Sample Matrix: SOLID
Lab Smp Id: SEQ-ICV2
Level: LOW
Data Type: MS DATA
SpikeList File: i8260.spk
Sublist File: 8260.sub
Method File: \\ELABNSH05\TARGET\chem\voa5.i\092211V5.b\VS5SUR.m
Misc Info: ;3;ICV;;;8260.sub;

Client SDG: SDGa72529
Fraction: VOA
Client Smp ID: SEQ-ICV2
Operator: ADM
SampleType: ICV
Quant Type: ISTD

	SPIKE COMPOUND	CONC ADDED ug/Kg	CONC RECOVERED ug/Kg	% RECOVERED	LIMITS
	1 Dichlorodifluorome	100.0	99.58	99.58	80-120
	2 Chloromethane	100.0	104.1	104.10	80-120
	3 Vinyl chloride	100.0	108.8	108.80	80-120
	4 Bromomethane	100.0	116.8	116.80	80-120
	5 Chloroethane	100.0	108.3	108.30	80-120
	8 Acrolein	500.0	0.0000	*	80-120
	9 Acetone	200.0	171.7	85.85	80-120
	7 Trichlorofluoromet	100.0	102.3	102.30	80-120
	11 Ethyl Ether	100.0	103.3	103.30	80-120
	13 Trichlorotrifluoro	100.0	90.85	90.85	80-120
	12 1,1-Dichloroethene	100.0	97.33	97.33	80-120
	14 t-Butyl alcohol	500.0	569.4	113.88	80-120
	46 tert-Amyl alcohol	500.0	0.0000	*	80-120
	16 Iodomethane	100.0	98.37	98.37	80-120
	18 Acrylonitrile	500.0	0.0000	*	80-120
	17 Methyl acetate	100.0	103.0	103.00	80-120
	22 Carbon disulfide	100.0	83.14	83.14	80-120
	10 Acetonitrile	1000	985.8	98.58	80-120
	20 Methylene chloride	100.0	93.19	93.19	80-120
	24 trans-1,2-Dichloro	100.0	99.24	99.24	80-120
	23 MTBE	100.0	103.9	103.90	80-120
	26 1,1-Dichloroethane	100.0	100.6	100.60	80-120
	27 Vinyl acetate	200.0	233.4	116.70	80-120
	33 Di-isopropyl ether	100.0	101.2	101.20	80-120
	34 2-Butanone	200.0	209.9	104.95	80-120
	37 cis-1,2-Dichloroet	100.0	103.2	103.20	80-120
	19 Allyl chloride	100.0	112.0	112.00	80-120
M	6 1,2-Dichloroethene	200.0	202.5	101.25	80-120
	42 Bromochloromethane	100.0	100.0	100.00	80-120
	41 Chloroform	100.0	99.65	99.65	80-120
	45 Tetrahydrofuran	100.0	104.2	104.20	80-120
	47 1,1,1-Trichloroeth	100.0	105.4	105.40	80-120
	51 Cyclohexane	100.0	91.38	91.38	80-120

Data File: \\ELABNSH05\TARGET\chem\voa5.i\092211V5.b\0922ICV2.D
Report Date: 23-Sep-2011 07:07

SPIKE COMPOUND	CONC ADDED ug/Kg	CONC RECOVERED ug/Kg	% RECOVERED	LIMITS
52 Carbon tetrachlori	100.0	103.6	103.60	80-120
53 Benzene	100.0	101.2	101.20	80-120
49 1,2-Dichloroethane	100.0	98.47	98.47	80-120
40 ETBE	100.0	103.9	103.90	80-120
39 2,2-Dichloropropan	100.0	100.0	100.00	80-120
50 1,1-Dichloropropen	100.0	99.37	99.37	80-120
54 tert-Amyl Methyl E	100.0	101.0	101.00	80-120
28 Propionitrile	1000	1103	110.30	80-120
56 Trichloroethene	100.0	97.81	97.81	80-120
57 1,2-Dichloropropan	100.0	99.60	99.60	80-120
58 Dibromomethane	100.0	101.8	101.80	80-120
59 Methyl methacrylat	100.0	89.32	89.32	80-120
60 1,4-Dioxane	2000	2180	109.00	80-120
61 Bromodichlorometha	100.0	99.31	99.31	80-120
66 2-Chloroethyl viny	200.0	211.8	105.90	80-120
30 Chloroprene	100.0	102.8	102.80	80-120
69 4-Methyl-2-pentano	200.0	211.5	105.75	80-120
62 tert-Amyl Ethyl Et	100.0	99.29	99.29	80-120
70 cis-1,3-Dichloropr	100.0	106.9	106.90	80-120
29 Hexane	100.0	103.6	103.60	80-120
36 Methacrylonitrile	1000	988.0	98.80	80-120
74 Toluene	100.0	106.2	106.20	80-120
73 trans-1,3-Dichloro	100.0	97.13	97.13	80-120
76 Ethyl methacrylate	100.0	115.4	115.40	80-120
77 2-Hexanone	200.0	214.5	107.25	80-120
75 1,1,2-Trichloroeth	100.0	107.9	107.90	80-120
80 Tetrachloroethene	100.0	104.4	104.40	80-120
79 Dibromochlorometha	100.0	105.7	105.70	80-120
43 Isobutyl alcohol	2000	2277	113.85	80-120
81 1,2-Dibromoethane	100.0	108.6	108.60	80-120
63 Methyl cyclohexane	100.0	97.86	97.86	80-120
84 Chlorobenzene	100.0	102.6	102.60	80-120
86 Ethylbenzene	100.0	103.8	103.80	80-120
85 1,1,1,2-Tetrachlor	100.0	105.2	105.20	80-120
83 1-Chlorohexane	100.0	104.8	104.80	80-120
87 m,p-Xylene	200.0	203.2	101.60	80-120
M 119 Xylene(total)	300.0	308.4	102.80	80-120
89 o-Xylene	100.0	105.2	105.20	80-120
88 Styrene	100.0	106.1	106.10	80-120
90 Bromoform	100.0	113.5	113.50	80-120
94 Isopropylbenzene	100.0	100.9	100.90	80-120
93 1,1,2,2-Tetrachlor	100.0	107.2	107.20	80-120
78 1,3-Dichloropropan	100.0	109.2	109.20	80-120
95 1,2,3-Trichloropro	100.0	108.1	108.10	80-120
99 n-Propylbenzene	100.0	101.9	101.90	80-120
102 1,3,5-Trimethylben	100.0	103.5	103.50	80-120
106 1,2,4-Trimethylben	100.0	104.0	104.00	80-120

Data File: \\ELABNSH05\TARGET\chem\voa5.i\092211V5.b\0922ICV2.D
Report Date: 23-Sep-2011 07:07

SPIKE COMPOUND	CONC ADDED ug/Kg	CONC RECOVERED ug/Kg	% RECOVERED	LIMITS
107 sec-Butylbenzene	100.0	105.9	105.90	80-120
105 tert-Butylbenzene	100.0	107.6	107.60	80-120
108 1,3-Dichlorobenzen	100.0	97.86	97.86	80-120
111 1,4-Dichlorobenzen	100.0	99.82	99.82	80-120
113 n-Butylbenzene	100.0	105.9	105.90	80-120
112 1,2-Dichlorobenzen	100.0	99.64	99.64	80-120
117 1,2-Dibromo-3-chlo	100.0	99.05	99.05	80-120
118 1,3,5-Trichloroben	100.0	99.75	99.75	80-120
98 Bromobenzene	100.0	98.97	98.97	80-120
100 2-Chlorotoluene	100.0	100.7	100.70	80-120
101 4-Chlorotoluene	100.0	98.08	98.08	80-120
120 1,2,4-Trichloroben	100.0	92.49	92.49	80-120
121 Naphthalene	100.0	97.63	97.63	80-120
109 p-Isopropyltoluene	100.0	100.4	100.40	80-120
122 Hexachlorobutadien	100.0	95.78	95.78	80-120
123 1,2,3-Trichloroben	100.0	85.92	85.92	80-120
96 trans-1,4-Dichloro	100.0	106.8	106.80	80-120
91 cis-1,4-Dichloro-2	100.0	114.3	114.30	80-120

SURROGATE COMPOUND	CONC ADDED ug/Kg	CONC RECOVERED ug/Kg	% RECOVERED	LIMITS
$ 44 Dibromofluorometha	30.00	32.55	108.50	80-125
$ 48 1,2-Dichloroethane	30.00	29.80	99.33	75-140
$ 71 Toluene-d8	30.00	32.11	107.03	85-115
$ 97 Bromofluorobenzene	30.00	32.98	109.93	85-120

Data File: \\ELABNSH05\TARGET\chem\voa5.i\092211V5.b\0922ICV2.D
Report Date: 23-Sep-2011 07:07

Laboratory Name

Data file : \\ELABNSH05\TARGET\chem\voa5.i\092211V5.b\0922ICV2.D
Lab Smp Id: SEQ-ICV2 Client Smp ID: SEQ-ICV2
Inj Date : 22-SEP-2011 18:49 MS Autotune Date: 28-JUL-1998 05:19
Operator : ADM Inst ID: voa5.i
Smp Info : SEQ-ICV2;;;;;
Misc Info : ;3;ICV;;;8260.sub;
Comment :
Method : \\ELABNSH05\TARGET\chem\voa5.i\092211V5.b\VS5SUR.m
Meth Date : 23-Sep-2011 07:07 amonteiro Quant Type: ISTD
Cal Date : 22-SEP-2011 17:30 Cal File: 0922CAL8.D
Als bottle: 12 QC Sample: ICV
Dil Factor: 1.00000
Integrator: HP RTE Compound Sublist: 8260.sub
Target Version: 4.04
Processing Host: TARGET02_VM

Concentration Formula: Amt * DF * 5*Uf/(Ws*(Solids/100))

Name	Value	Description
DF	1.000	Dilution Factor
Uf	1.000	unit correction factor
Ws	5.000	Weight of sample extracted (g)
Solids	100.000	Percent Solids

mg 9/23/11

Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS ON-COLUMN (ug/Kg)	FINAL (ug/Kg)
* 55 Fluorobenzene	96	7.861	7.864	(1.000)	860184	30.0000	
1 Dichlorodifluoromethane	85	1.980	1.974	(0.252)	709326	99.5857	99.58
2 Chloromethane	50	2.187	2.190	(0.278)	927532	104.119	104.1
3 Vinyl chloride	62	2.325	2.328	(0.296)	520210	108.751	108.8
4 Bromomethane	94	2.759	2.762	(0.351)	399425	116.801	116.8
5 Chloroethane	64	2.896	2.890	(0.368)	522699	108.264	108.3
7 Trichlorofluoromethane	101	3.379	3.382	(0.430)	1208120	102.333	102.3
11 Ethyl Ether	59	3.793	3.796	(0.483)	722966	103.337	103.3
10 Acetonitrile	41	3.753	3.756	(0.478)	1219057	985.825	985.8(Q)
13 Trichlorotrifluoroethane	101	4.236	4.239	(0.539)	771997	90.8480	90.85
19 Allyl chloride	76	4.591	4.594	(0.584)	500860	112.029	112.0(Q)
12 1,1-Dichloroethene	96	4.157	4.160	(0.529)	754696	97.3285	97.33
9 Acetone	43	3.675	3.678	(0.467)	456107	171.740	171.7
14 t-Butyl alcohol	59	4.285	4.288	(0.545)	400589	569.389	569.4
16 Iodomethane	142	4.354	4.357	(0.554)	592821	98.3747	98.37

CQ 9/23/11

Data File: \\ELABNSH05\TARGET\chem\voa5.i\092211V5.b\0922ICV2.D
Report Date: 23-Sep-2011 07:07

	Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS ON-COLUMN (ug/Kg)	FINAL (ug/Kg)
	22 Carbon disulfide	76	4.699	4.702	(0.598)	2541761	83.1436	83.14
	20 Methylene chloride	84	4.640	4.643	(0.590)	932525	93.1864	93.19
	24 trans-1,2-Dichloroethene	96	5.310	5.313	(0.675)	818701	99.2379	99.24
	23 MTBE	73	5.300	5.303	(0.674)	1973204	103.861	103.9
	26 1,1-Dichloroethane	63	5.684	5.687	(0.723)	1780617	100.659	100.6
	28 Propionitrile	54	5.852	5.855	(0.744)	1030382	1102.67	1103
	27 Vinyl acetate	43	5.753	5.766	(0.732)	3295541	233.353	233.4
	30 Chloroprene	53	5.950	5.953	(0.757)	1452392	102.796	102.8
	33 Di-isopropyl ether	45	6.058	6.061	(0.771)	3871291	101.259	101.2
	37 cis-1,2-Dichloroethene	96	6.403	6.406	(0.815)	899620	103.235	103.2
M	6 1,2-Dichloroethene(total)	96				1718321	202.473	202.5
	34 2-Butanone	43	6.127	6.130	(0.779)	980777	209.877	209.9
	36 Methacrylonitrile	41	6.305	6.318	(0.802)	4725941	988.025	988.0
	29 Hexane	57	5.901	5.904	(0.751)	1560499	103.654	103.6
	42 Bromochloromethane	128	6.679	6.682	(0.850)	354422	100.045	100.0
	43 Isobutyl alcohol	42	6.738	6.751	(0.857)	482219	2276.73	2277
	45 Tetrahydrofuran	42	6.866	6.859	(0.873)	259252	104.208	104.2
	41 Chloroform	83	6.659	6.662	(0.847)	1498099	99.6519	99.65
	17 Methyl acetate	43	4.492	4.495	(0.571)	673738	102.953	103.0
$	44 Dibromofluoromethane	111	6.827	6.830	(0.868)	239768	32.5478	32.55
	47 1,1,1-Trichloroethane	97	7.221	7.224	(0.919)	1133530	105.357	105.4
	40 ETBE	59	6.521	6.534	(0.830)	2738103	103.904	103.9
	51 Cyclohexane	56	7.497	7.500	(0.954)	1521653	91.3800	91.38
	52 Carbon tetrachloride	117	7.565	7.568	(0.962)	848025	103.597	103.6
$	48 1,2-Dichloroethane-d4	102	7.329	7.332	(0.932)	45112	29.8051	29.80
	53 Benzene	78	7.595	7.598	(0.966)	3351966	101.241	101.2
	54 tert-Amyl Methyl Ether	73	7.782	7.785	(0.990)	2139262	100.995	101.0
	49 1,2-Dichloroethane	62	7.418	7.421	(0.944)	1030100	98.4729	98.47
	39 2,2-Dichloropropane	77	6.511	6.515	(0.828)	1122265	100.029	100.0
	50 1,1-Dichloropropene	75	7.437	7.450	(0.946)	1217618	99.3698	99.37
	56 Trichloroethene	95	8.363	8.357	(1.064)	884463	97.8105	97.81
	60 1,4-Dioxane	88	8.560	8.563	(1.089)	141281	2180.15	2180
	57 1,2-Dichloropropane	63	8.403	8.406	(1.069)	1007982	99.6022	99.60
	58 Dibromomethane	93	8.521	8.524	(1.084)	521601	101.794	101.8
	59 Methyl methacrylate	41	7.497	7.500	(0.954)	943173	89.3252	89.32
	61 Bromodichloromethane	83	8.580	8.583	(1.091)	1080424	99.3146	99.31
	62 tert-Amyl Ethyl Ether	59	8.679	8.682	(1.104)	2042387	99.2906	99.29
	66 2-Chloroethyl vinyl ether	63	9.013	9.016	(1.147)	4785	211.758	211.8(A)
	70 cis-1,3-Dichloropropene	75	9.161	9.164	(1.165)	1330933	106.876	106.9
	69 4-Methyl-2-pentanone	43	9.082	9.085	(1.155)	1676752	211.490	211.5
$	71 Toluene-d8	98	9.565	9.558	(0.870)	752831	32.1145	32.11
	74 Toluene	92	9.634	9.637	(0.876)	1795793	106.155	106.2
	73 trans-1,3-Dichloropropene	75	9.634	9.637	(0.876)	991497	97.1314	97.13
	76 Ethyl methacrylate	69	9.821	9.824	(0.893)	995422	115.426	115.4
	75 1,1,2-Trichloroethane	83	9.792	9.795	(0.891)	583074	107.923	107.9
	80 Tetrachloroethene	166	10.373	10.376	(0.944)	635187	104.406	104.4
	77 2-Hexanone	43	9.939	9.942	(0.904)	1163770	214.494	214.5

Data File: \\ELABNSH05\TARGET\chem\voa5.i\092211V5.b\0922ICV2.D
Report Date: 23-Sep-2011 07:07

Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS ON-COLUMN (ug/Kg)	FINAL (ug/Kg)
79 Dibromochloromethane	129	10.264	10.267	(0.934)	643963	105.701	105.7
81 1,2-Dibromoethane	107	10.471	10.474	(0.953)	628256	108.605	108.6
63 Methyl cyclohexane	83	8.738	8.741	(1.112)	1334102	97.8578	97.86
* 82 Chlorobenzene-d5	82	10.993	10.996	(1.000)	356745	30.0000	
84 Chlorobenzene	112	11.033	11.036	(1.004)	1696424	102.616	102.6
85 1,1,1,2-Tetrachloroethane	131	11.072	11.075	(1.007)	559443	105.218	105.2
83 1-Chlorohexane	91	11.003	10.996	(1.001)	1092500	104.824	104.8(AQ)
86 Ethylbenzene	91	11.180	11.184	(1.017)	3215406	103.781	103.8
87 m,p-Xylene	91	11.289	11.292	(1.027)	4354954	203.223	203.2
M 119 Xylene(total)	91				6685732	308.380	308.4
89 o-Xylene	91	11.683	11.686	(1.063)	2330778	105.157	105.2
88 Styrene	104	11.653	11.656	(1.060)	1803925	106.142	106.1
90 Bromoform	173	11.752	11.755	(1.069)	403206	113.502	113.5
91 cis-1,4-Dichloro-2-butene	53	11.840	11.843	(0.884)	205260	114.317	114.3
94 Isopropylbenzene	105	12.077	12.080	(1.099)	2431511	100.938	100.9
$ 97 Bromofluorobenzene	95	12.185	12.188	(1.108)	326286	32.9812	32.98
93 1,1,2,2-Tetrachloroethane	83	11.998	12.001	(0.896)	761257	107.257	107.2
78 1,3-Dichloropropane	76	9.998	10.001	(0.910)	1150381	109.180	109.2
95 1,2,3-Trichloropropane	110	12.126	12.129	(1.103)	172033	108.129	108.1(Q)
96 trans-1,4-Dichloro-2-butene	53	12.146	12.149	(0.907)	203548	106.770	106.8(Q)
99 n-Propylbenzene	91	12.491	12.494	(0.932)	3367427	101.906	101.9
102 1,3,5-Trimethylbenzene	105	12.668	12.671	(0.946)	1947971	103.507	103.5
106 1,2,4-Trimethylbenzene	105	13.042	13.045	(0.974)	1811435	104.002	104.0
107 sec-Butylbenzene	105	13.239	13.242	(0.988)	2738012	105.901	105.9
105 tert-Butylbenzene	119	13.013	13.016	(0.971)	1790517	107.657	107.6
108 1,3-Dichlorobenzene	146	13.328	13.331	(0.995)	1000622	97.8597	97.86
* 110 1,4-Dichlorobenzene-d4	152	13.397	13.400	(1.000)	247167	30.0000	(Q)
111 1,4-Dichlorobenzene	146	13.426	13.429	(1.002)	969349	99.8161	99.82
113 n-Butylbenzene	91	13.781	13.784	(1.029)	1936063	105.874	105.9
112 1,2-Dichlorobenzene	146	13.742	13.745	(1.026)	931910	99.6418	99.64
117 1,2-Dibromo-3-chloropropane	157	14.382	14.385	(1.074)	91111	99.0546	99.05
118 1,3,5-Trichlorobenzene	180	14.904	14.907	(1.112)	561492	99.7546	99.75
98 Bromobenzene	156	12.353	12.356	(0.922)	622417	98.9710	98.97
100 2-Chlorotoluene	91	12.569	12.572	(0.938)	2072989	100.706	100.7
101 4-Chlorotoluene	91	12.638	12.641	(0.943)	2141616	98.0766	98.08
120 1,2,4-Trichlorobenzene	180	15.465	15.468	(1.154)	440142	92.4947	92.49
121 Naphthalene	128	15.613	15.616	(1.165)	716002	97.6284	97.63
109 p-Isopropyltoluene	119	13.377	13.380	(0.999)	1696274	100.417	100.4
122 Hexachlorobutadiene	225	15.741	15.744	(1.175)	354096	95.7832	95.78
123 1,2,3-Trichlorobenzene	180	15.899	15.902	(1.187)	371557	85.9251	85.92

QC Flag Legend

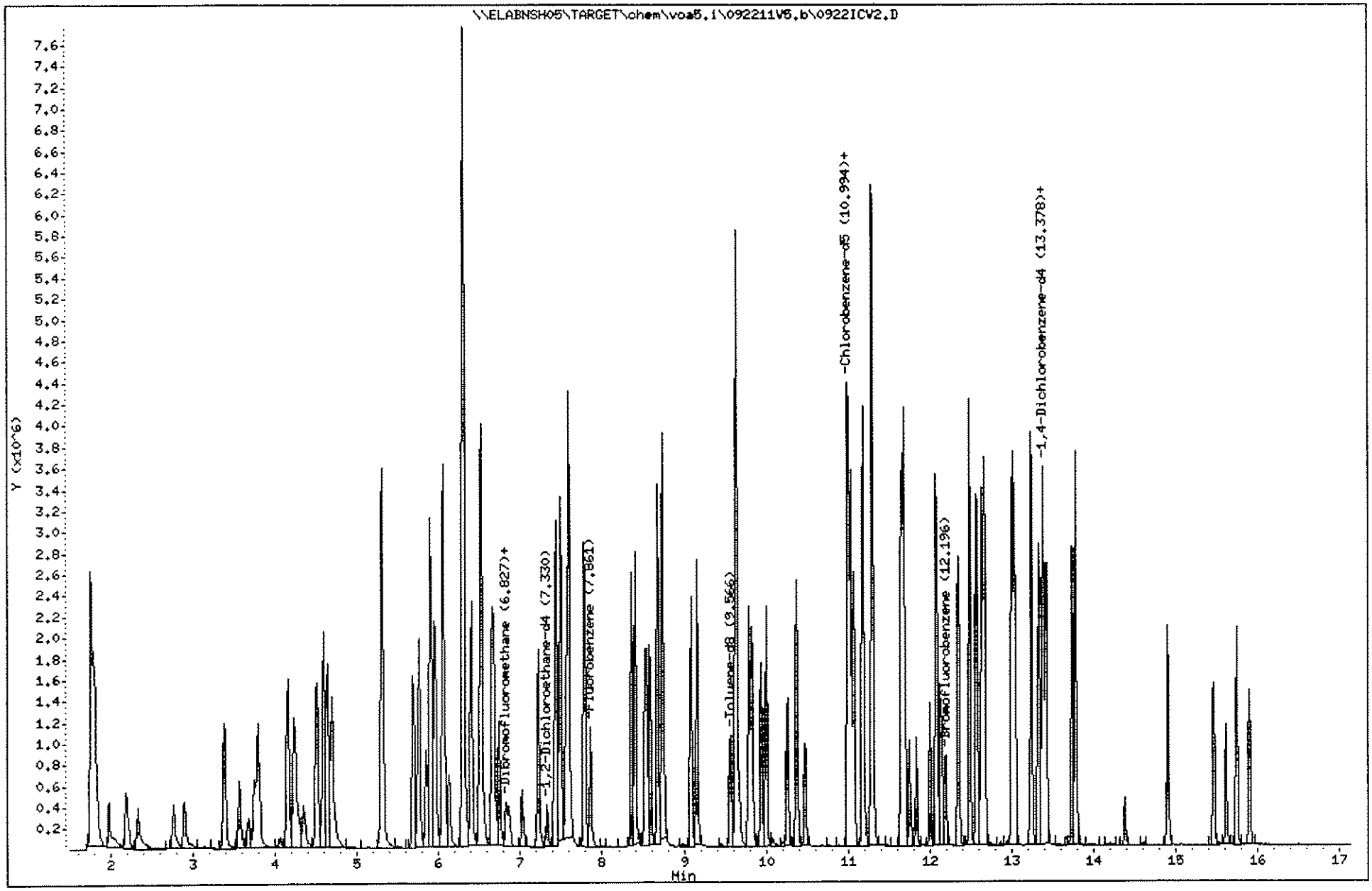
A - Target compound detected but, quantitated amount exceeded maximum amount.
Q - Qualifier signal failed the ratio test.

Data File: \\ELABNSH05\TARGET\chem\voa5.i\092211V5.b\0922ICV2.D
Date : 22-SEP-2011 18:49
Client ID: SEQ-ICV2
Sample Info: SEQ-ICV2;;;;;

Column phase: RTX-VRX

Instrument: voa5.i

Operator: ADM
Column diameter: 0.25



236

1109191

Data File: 0922CAL1lodloq.D
Report Date: 23-Sep-2011 08:58

Laboratory Name

Data file : \\ELABNSH05\TARGET\chem\voa5.i\092211V5.b\0922CAL1lodloq.D
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Inj Date : 22-SEP-2011 14:24
Operator : ADM Inst ID: voa5.i
Smp Info : SEQ-CAL1;;;;;
Misc Info : ;;;;;8260.sub;
Comment :
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Meth Date : 23-Sep-2011 08:58 amonteiro Quant Type: ISTD
Cal Date : 22-SEP-2011 17:30 Cal File: 0922CAL8.D
Als bottle: 2
Dil Factor: 1.00000
Integrator: HP RTE Compound Sublist: 8260.sub
Target Version: 4.04
Processing Host: TARGET02_VM

Concentration Formula: Amt * DF * 5*Uf/(Ws*(Solids/100))

Name	Value	Description
DF	1.000	Dilution Factor
Uf	1.000	unit correction factor
Ws	5.000	Weight of sample extracted (g)
Solids	100.000	Percent Solids

MA 9/23/11

Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS ON-COLUMN (ug/Kg)	FINAL (ug/Kg)
* 55 Fluorobenzene	96	7.855	7.864	(1.000)	819266	30.0000	
1 Dichlorodifluoromethane	85	1.974	1.974	(0.251)	14191	2.09185	2.092
2 Chloromethane	50	2.191	2.190	(0.279)	18435	2.17276	2.173
3 Vinyl chloride	62	2.329	2.328	(0.297)	9462	2.07685	2.077
4 Bromomethane	94	2.762	2.762	(0.352)	7134	2.19034	2.190
5 Chloroethane	64	2.890	2.890	(0.368)	9666	2.10207	2.102
7 Trichlorofluoromethane	101	3.383	3.382	(0.431)	22020	1.95835	1.958(a)
11 Ethyl Ether	59	3.796	3.796	(0.483)	13126	1.96986	1.970
10 Acetonitrile	41	3.757	3.756	(0.478)	26755	22.7168	22.72
13 Trichlorotrifluoroethane	101	4.230	4.239	(0.539)	15879	1.96196	1.962
8 Acrolein	56	3.570	3.569	(0.455)	7702	7.81493	7.815
19 Allyl chloride	76	4.594	4.594	(0.585)	7476	1.75569	1.756
12 1,1-Dichloroethene	96	4.151	4.160	(0.529)	13951	1.88903	1.889
9 Acetone	43	3.678	3.678	(0.468)	12984	5.13310	5.133(a)
14 t-Butyl alcohol	59	4.289	4.288	(0.546)	6507	9.71085	9.711

CAA 12/3/16

Data File: 0922CAL1lodloq.D
Report Date: 23-Sep-2011 08:58

	Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS ON-COLUMN (ug/Kg)	FINAL (ug/Kg)
	16 Iodomethane	142	4.358	4.357	(0.555)	2300	7.66625	7.666(T)
	22 Carbon disulfide	76	4.693	4.702	(0.597)	59086	2.02930	2.029
	20 Methylene chloride	84	4.643	4.643	(0.591)	28192	2.95791	2.958
	18 Acrylonitrile	53	4.506	4.515	(0.574)	25070	10.1621	10.16
	24 trans-1,2-Dichloroethene	96	5.313	5.313	(0.676)	15621	1.98805	1.988
	23 MTBE	73	5.303	5.303	(0.675)	35757	1.97610	1.976
	26 1,1-Dichloroethane	63	5.688	5.687	(0.724)	31901	1.89344	1.893
	28 Propionitrile	54	5.855	5.855	(0.745)	18412	20.6879	20.69
	27 Vinyl acetate	43	5.757	5.766	(0.733)	53960	4.01167	4.012(a)
	30 Chloroprene	53	5.954	5.953	(0.758)	25413	1.88848	1.888
	33 Di-isopropyl ether	45	6.062	6.061	(0.772)	70382	1.93288	1.933
	37 cis-1,2-Dichloroethene	96	6.397	6.406	(0.814)	15414	1.85717	1.857
M	6 1,2-Dichloroethene(total)	96				31035	3.84522	3.845
	34 2-Butanone	43	6.131	6.130	(0.781)	18857	4.23675	4.237(a)
	36 Methacrylonitrile	41	6.298	6.318	(0.802)	99490	21.8386	21.84
	29 Hexane	57	5.904	5.904	(0.752)	30762	2.14538	2.145
	42 Bromochloromethane	128	6.682	6.682	(0.851)	6551	1.94156	1.942(a)
	43 Isobutyl alcohol	42	6.742	6.751	(0.858)	8201	40.6537	40.65
	45 Tetrahydrofuran	42	6.870	6.859	(0.875)	7538	3.18127	3.181
	46 tert-Amyl alcohol	59	7.027	7.027	(0.895)	4722	8.86987	8.870
	41 Chloroform	83	6.653	6.662	(0.847)	29099	2.03231	2.032
	17 Methyl acetate	43	4.496	4.495	(0.572)	13103	2.10225	2.102
$	44 Dibromofluoromethane	111	6.830	6.830	(0.870)	245850	35.0402	35.04
	47 1,1,1-Trichloroethane	97	7.214	7.224	(0.918)	19172	1.87095	1.871
	40 ETBE	59	6.525	6.534	(0.831)	49283	1.96358	1.964
	51 Cyclohexane	56	7.490	7.500	(0.954)	32081	2.02278	2.023
	52 Carbon tetrachloride	117	7.559	7.568	(0.962)	15108	1.93781	1.938
$	48 1,2-Dichloroethane-d4	102	7.333	7.332	(0.934)	50484	35.0202	35.02
	53 Benzene	78	7.589	7.598	(0.966)	63625	2.01768	2.018
	54 tert-Amyl Methyl Ether	73	7.786	7.785	(0.991)	40270	1.99611	1.996
	49 1,2-Dichloroethane	62	7.421	7.421	(0.945)	20568	2.06441	2.064
	39 2,2-Dichloropropane	77	6.505	6.515	(0.828)	21117	1.97618	1.976
	50 1,1-Dichloropropene	75	7.441	7.450	(0.947)	23410	2.00591	2.006
	56 Trichloroethene	95	8.357	8.357	(1.064)	17893	2.07757	2.078
	60 1,4-Dioxane	88	8.564	8.563	(1.090)	2675	43.3404	43.34
	57 1,2-Dichloropropane	63	8.406	8.406	(1.070)	18836	1.95421	1.954
	58 Dibromomethane	93	8.515	8.524	(1.084)	9489	1.94433	1.944
	59 Methyl methacrylate	41	7.490	7.500	(0.954)	20960	2.08420	2.084
	61 Bromodichloromethane	83	8.584	8.583	(1.093)	19299	1.86260	1.863
	62 tert-Amyl Ethyl Ether	59	8.672	8.682	(1.104)	38097	1.94459	1.944
	70 cis-1,3-Dichloropropene	75	9.155	9.164	(1.166)	22079	1.86152	1.862
	69 4-Methyl-2-pentanone	43	9.086	9.085	(1.157)	30626	4.05582	4.056(Ta)
$	71 Toluene-d8	98	9.559	9.558	(0.869)	810645	34.5783	34.58(R)
	74 Toluene	92	9.638	9.637	(0.876)	35788	2.11539	2.115
	73 trans-1,3-Dichloropropene	75	9.638	9.637	(0.876)	20137	1.97257	1.972
	76 Ethyl methacrylate	69	9.825	9.824	(0.893)	16085	1.86504	1.865
	75 1,1,2-Trichloroethane	83	9.795	9.795	(0.891)	10331	1.91206	1.912

Data File: 0922CAL1lodloq.D
Report Date: 23-Sep-2011 08:58

Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS ON-COLUMN (ug/Kg)	FINAL (ug/Kg)
80 Tetrachloroethene	166	10.376	10.376	(0.944)	11905	1.95670	1.957
77 2-Hexanone	43	9.933	9.942	(0.903)	23100	4.25725	4.257(a)
79 Dibromochloromethane	129	10.258	10.267	(0.933)	11256	1.84745	1.847
81 1,2-Dibromoethane	107	10.475	10.474	(0.953)	10726	1.85405	1.854
63 Methyl cyclohexane	83	8.741	8.741	(1.113)	24728	1.90442	1.904
* 82 Chlorobenzene-d5	82	10.997	10.996	(1.000)	356770	30.0000	
84 Chlorobenzene	112	11.026	11.036	(1.003)	32270	1.95186	1.952
85 1,1,1,2-Tetrachloroethane	131	11.076	11.075	(1.007)	9710	1.82610	1.826
83 1-Chlorohexane	91	10.997	10.996	(1.000)	21775	2.08913	2.089
86 Ethylbenzene	91	11.174	11.184	(1.016)	60045	1.93788	1.938
87 m,p-Xylene	91	11.292	11.292	(1.027)	89431	4.17299	4.173
M 119 Xylene(total)	91				132744	6.12700	6.127
89 o-Xylene	91	11.686	11.686	(1.063)	43313	1.95401	1.954
88 Styrene	104	11.657	11.656	(1.060)	29663	1.74523	1.745
90 Bromoform	173	11.755	11.755	(1.069)	6275	1.76628	1.766
91 cis-1,4-Dichloro-2-butene	53	11.834	11.843	(0.884)	3232	2.06196	2.062(a)
94 Isopropylbenzene	105	12.080	12.080	(1.099)	42637	1.76984	1.770
$ 97 Bromofluorobenzene	95	12.189	12.188	(1.108)	342431	34.6107	34.61
93 1,1,2,2-Tetrachloroethane	83	12.002	12.001	(0.896)	13901	2.24360	2.244
78 1,3-Dichloropropane	76	10.002	10.001	(0.910)	18402	1.74637	1.746
95 1,2,3-Trichloropropane	110	12.130	12.129	(1.103)	3003	1.88737	1.887
99 n-Propylbenzene	91	12.494	12.494	(0.933)	56091	1.94447	1.944
102 1,3,5-Trimethylbenzene	105	12.671	12.671	(0.946)	31161	1.89672	1.897
106 1,2,4-Trimethylbenzene	105	13.036	13.045	(0.974)	28180	1.85338	1.853
107 sec-Butylbenzene	105	13.243	13.242	(0.989)	39299	1.74120	1.741
105 tert-Butylbenzene	119	13.006	13.016	(0.971)	25176	1.73402	1.734
108 1,3-Dichlorobenzene	146	13.331	13.331	(0.996)	17901	2.00546	2.005
* 110 1,4-Dichlorobenzene-d4	152	13.390	13.400	(1.000)	215768	30.0000	
111 1,4-Dichlorobenzene	146	13.420	13.429	(1.002)	17587	2.07451	2.074
113 n-Butylbenzene	91	13.784	13.784	(1.029)	27959	1.75144	1.751
112 1,2-Dichlorobenzene	146	13.745	13.745	(1.026)	16001	1.95983	1.960
117 1,2-Dibromo-3-chloropropane	157	14.385	14.385	(1.074)	1569	1.95403	1.954(a)
118 1,3,5-Trichlorobenzene	180	14.907	14.907	(1.113)	8509	1.73170	1.732
98 Bromobenzene	156	12.356	12.356	(0.923)	11654	2.12278	2.123
100 2-Chlorotoluene	91	12.573	12.572	(0.939)	36117	2.00990	2.010
101 4-Chlorotoluene	91	12.632	12.641	(0.943)	37448	1.96452	1.964
120 1,2,4-Trichlorobenzene	180	15.459	15.468	(1.154)	7852	1.89020	1.890
121 Naphthalene	128	15.617	15.616	(1.166)	45553	6.14370	6.144
109 p-Isopropyltoluene	119	13.381	13.380	(0.999)	26004	1.76342	1.763
122 Hexachlorobutadiene	225	15.745	15.744	(1.176)	5524	1.71169	1.712
123 1,2,3-Trichlorobenzene	180	15.902	15.902	(1.188)	7675	2.03318	2.033

QC Flag Legend

T - Target compound detected outside RT window.
a - Target compound detected but, quantitated amount Below Limit Of Quantitation(BLOQ).

Data File: 0922CAL1lodloq.D
Report Date: 23-Sep-2011 08:58

QC Flag Legend

R - Spike/Surrogate failed recovery limits.

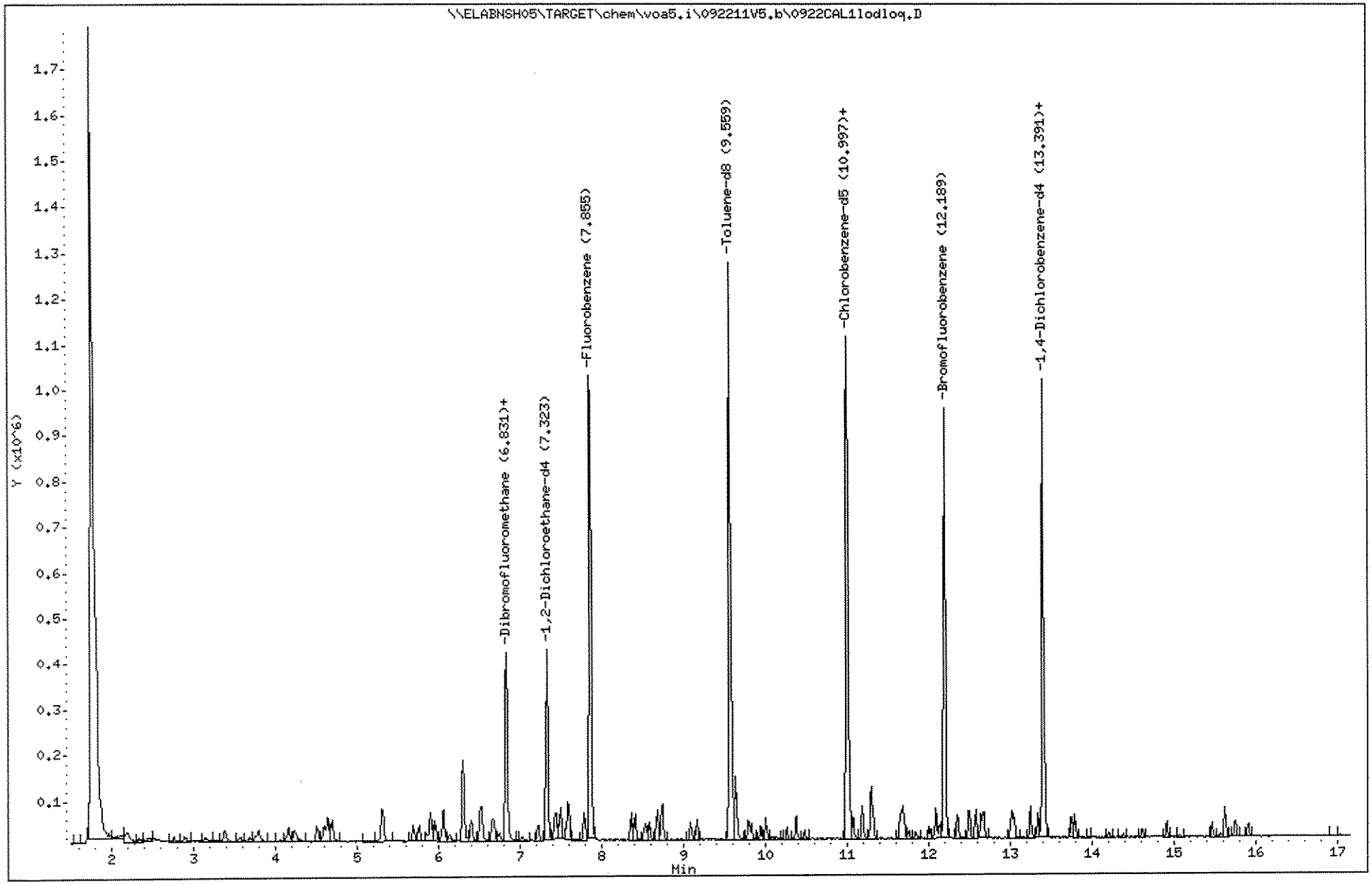
Data File: \\ELABNSH05\TARGET\chem\voa5.i\092211V5.b\0922CAL1lodloq.D
Date : 22-SEP-2011 14:24
Client ID: SEQ-CAL1
Sample Info: SEQ-CAL1;;;;;

Instrument: voa5.i

Operator: ADM

Column phase: RTX-VRX

Column diameter: 0.25



Data File: 0922CAL2lodloq.D
Report Date: 23-Sep-2011 08:58

Laboratory Name

Data file : \\ELABNSH05\TARGET\chem\voa5.i\092211V5.b\0922CAL2lodloq.D
Lab Smp Id: SEQ-CAL2 Client Smp ID: SEQ-CAL2
Inj Date : 22-SEP-2011 14:51
Operator : ADM Inst ID: voa5.i
Smp Info : SEQ-CAL2;;;;;
Misc Info : ;;;;;8260.sub;
Comment :
Method : \\ELABNSH05\TARGET\chem\voa5.i\092211V5.b\VS5SUR.m
Meth Date : 23-Sep-2011 08:58 amonteiro Quant Type: ISTD
Cal Date : 22-SEP-2011 17:30 Cal File: 0922CAL8.D
Als bottle: 3
Dil Factor: 1.00000
Integrator: HP RTE Compound Sublist: 8260.sub
Target Version: 4.04
Processing Host: TARGET02_VM

Concentration Formula: Amt * DF * 5*Uf/(Ws*(Solids/100))

Name	Value	Description
DF	1.000	Dilution Factor
Uf	1.000	unit correction factor
Ws	5.000	Weight of sample extracted (g)
Solids	100.000	Percent Solids

Mg 9/23/11

Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS ON-COLUMN (ug/Kg)	FINAL (ug/Kg)
* 55 Fluorobenzene	96	7.865	7.864	(1.000)	809194	30.0000	
1 Dichlorodifluoromethane	85	1.974	1.974	(0.251)	32860	4.90408	4.904
2 Chloromethane	50	2.181	2.190	(0.277)	39542	4.71844	4.718
3 Vinyl chloride	62	2.319	2.328	(0.295)	20427	4.53941	4.539
4 Bromomethane	94	2.762	2.762	(0.351)	14297	4.44423	4.444
5 Chloroethane	64	2.890	2.890	(0.368)	22962	5.05571	5.056
7 Trichlorofluoromethane	101	3.383	3.382	(0.430)	54305	4.88972	4.890
11 Ethyl Ether	59	3.797	3.796	(0.483)	30786	4.67766	4.678
10 Acetonitrile	41	3.767	3.756	(0.479)	58794	50.5414	50.54
13 Trichlorotrifluoroethane	101	4.230	4.239	(0.538)	39084	4.88920	4.889
8 Acrolein	56	3.570	3.569	(0.454)	19010	19.5288	19.53
19 Allyl chloride	76	4.595	4.594	(0.584)	20367	4.84260	4.842
12 1,1-Dichloroethene	96	4.161	4.160	(0.529)	33488	4.59088	4.591
9 Acetone	43	3.679	3.678	(0.468)	25916	10.3732	10.37
14 t-Butyl alcohol	59	4.299	4.288	(0.547)	14089	21.2877	21.29

9/23/11

Data File: 0922CAL2lodloq.D
Report Date: 23-Sep-2011 08:58

	Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS ON-COLUMN (ug/Kg)	FINAL (ug/Kg)
	16 Iodomethane	142	4.358	4.357	(0.554)	6370	8.33557	8.336
	22 Carbon disulfide	76	4.693	4.702	(0.597)	142566	4.95734	4.957
	20 Methylene chloride	84	4.644	4.643	(0.590)	53857	5.72102	5.721
	18 Acrylonitrile	53	4.516	4.515	(0.574)	57801	23.7212	23.72
	24 trans-1,2-Dichloroethene	96	5.314	5.313	(0.676)	38219	4.92459	4.924
	23 MTBE	73	5.304	5.303	(0.674)	87206	4.87941	4.879
	26 1,1-Dichloroethane	63	5.688	5.687	(0.723)	83982	5.04669	5.047
	28 Propionitrile	54	5.846	5.855	(0.743)	40565	46.1465	46.15
	27 Vinyl acetate	43	5.757	5.766	(0.732)	125917	9.47785	9.478
	30 Chloroprene	53	5.954	5.953	(0.757)	63866	4.80506	4.805
	33 Di-isopropyl ether	45	6.052	6.061	(0.770)	176725	4.91376	4.914
	37 cis-1,2-Dichloroethene	96	6.397	6.406	(0.813)	42182	5.14560	5.146
M	6 1,2-Dichloroethene(total)	96				80401	10.0702	10.07
	34 2-Butanone	43	6.131	6.130	(0.780)	45274	10.2987	10.30
	36 Methacrylonitrile	41	6.299	6.318	(0.801)	236267	52.5075	52.51
	29 Hexane	57	5.895	5.904	(0.750)	69827	4.93043	4.930
	42 Bromochloromethane	128	6.683	6.682	(0.850)	16986	5.09690	5.097
	43 Isobutyl alcohol	42	6.742	6.751	(0.857)	17592	88.2920	88.29
	45 Tetrahydrofuran	42	6.860	6.859	(0.872)	13016	5.56153	5.562
	46 tert-Amyl alcohol	59	7.028	7.027	(0.894)	10738	20.4215	20.42
	41 Chloroform	83	6.653	6.662	(0.846)	70965	5.01797	5.018
	17 Methyl acetate	43	4.496	4.495	(0.572)	29935	4.86257	4.862
$	44 Dibromofluoromethane	111	6.831	6.830	(0.869)	276580	39.9108	39.91(R)
	47 1,1,1-Trichloroethane	97	7.215	7.224	(0.917)	49348	4.87570	4.876
	40 ETBE	59	6.525	6.534	(0.830)	122577	4.94461	4.945
	51 Cyclohexane	56	7.491	7.500	(0.952)	76749	4.89944	4.899
	52 Carbon tetrachloride	117	7.559	7.568	(0.961)	35834	4.65341	4.653
$	48 1,2-Dichloroethane-d4	102	7.333	7.332	(0.932)	56950	39.9974	40.00
	53 Benzene	78	7.589	7.598	(0.965)	156148	5.01340	5.013
	54 tert-Amyl Methyl Ether	73	7.786	7.785	(0.990)	93054	4.66993	4.670
	49 1,2-Dichloroethane	62	7.422	7.421	(0.944)	47963	4.87396	4.874
	39 2,2-Dichloropropane	77	6.506	6.515	(0.827)	52019	4.92866	4.929
	50 1,1-Dichloropropene	75	7.441	7.450	(0.946)	56026	4.86040	4.860
	56 Trichloroethene	95	8.357	8.357	(1.063)	40572	4.76948	4.769
	60 1,4-Dioxane	88	8.564	8.563	(1.089)	5704	93.5666	93.57
	57 1,2-Dichloropropane	63	8.407	8.406	(1.069)	46826	4.91861	4.919
	58 Dibromomethane	93	8.515	8.524	(1.083)	23861	4.95006	4.950
	59 Methyl methacrylate	41	7.491	7.500	(0.952)	49950	5.02871	5.029
	61 Bromodichloromethane	83	8.584	8.583	(1.091)	49885	4.87447	4.874
	62 tert-Amyl Ethyl Ether	59	8.673	8.682	(1.103)	93862	4.85063	4.851
	70 cis-1,3-Dichloropropene	75	9.155	9.164	(1.164)	55373	4.72672	4.727
	69 4-Methyl-2-pentanone	43	9.086	9.085	(1.155)	70443	9.44492	9.445
$	71 Toluene-d8	98	9.559	9.558	(0.869)	909049	38.8530	38.85(R)
	74 Toluene	92	9.638	9.637	(0.876)	82279	4.87310	4.873
	73 trans-1,3-Dichloropropene	75	9.638	9.637	(0.876)	47394	4.65184	4.652
	76 Ethyl methacrylate	69	9.825	9.824	(0.893)	38534	4.47688	4.477
	75 1,1,2-Trichloroethane	83	9.786	9.795	(0.890)	25826	4.78938	4.789

Data File: 0922CAL2lodloq.D
Report Date: 23-Sep-2011 08:58

Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS ON-COLUMN (ug/Kg)	FINAL (ug/Kg)
80 Tetrachloroethene	166	10.377	10.376	(0.944)	28974	4.77164	4.772
77 2-Hexanone	43	9.933	9.942	(0.903)	48623	8.97889	8.979
79 Dibromochloromethane	129	10.258	10.267	(0.933)	27515	4.52504	4.525
81 1,2-Dibromoethane	107	10.475	10.474	(0.953)	25047	4.33814	4.338
63 Methyl cyclohexane	83	8.742	8.741	(1.111)	63836	4.97749	4.977
* 82 Chlorobenzene-d5	82	10.997	10.996	(1.000)	356061	30.0000	
84 Chlorobenzene	112	11.027	11.036	(1.003)	80155	4.85785	4.858
85 1,1,1,2-Tetrachloroethane	131	11.076	11.075	(1.007)	24690	4.65254	4.652
83 1-Chlorohexane	91	10.997	10.996	(1.000)	49293	4.73867	4.739
86 Ethylbenzene	91	11.175	11.184	(1.016)	149668	4.83998	4.840
87 m,p-Xylene	91	11.293	11.292	(1.027)	212494	9.93505	9.935
M 119 Xylene(total)	91				321635	14.8686	14.87
89 o-Xylene	91	11.687	11.686	(1.063)	109141	4.93355	4.934
88 Styrene	104	11.657	11.656	(1.060)	78828	4.64710	4.647
90 Bromoform	173	11.756	11.755	(1.069)	14813	4.17786	4.178
91 cis-1,4-Dichloro-2-butene	53	11.834	11.843	(0.884)	7473	4.57382	4.574(a)
94 Isopropylbenzene	105	12.081	12.080	(1.099)	112196	4.66647	4.666
$ 97 Bromofluorobenzene	95	12.189	12.188	(1.108)	381423	38.6285	38.63(R)
93 1,1,2,2-Tetrachloroethane	83	12.002	12.001	(0.896)	30206	4.67702	4.677
78 1,3-Dichloropropane	76	10.002	10.001	(0.910)	49113	4.67015	4.670
95 1,2,3-Trichloropropane	110	12.130	12.129	(1.103)	7073	4.45419	4.454
99 n-Propylbenzene	91	12.494	12.494	(0.933)	143485	4.77188	4.772
102 1,3,5-Trimethylbenzene	105	12.672	12.671	(0.946)	83346	4.86690	4.867
106 1,2,4-Trimethylbenzene	105	13.036	13.045	(0.974)	73609	4.64442	4.644
107 sec-Butylbenzene	105	13.243	13.242	(0.989)	109170	4.64030	4.640
105 tert-Butylbenzene	119	13.007	13.016	(0.971)	69813	4.61295	4.613
108 1,3-Dichlorobenzene	146	13.332	13.331	(0.996)	46077	4.95220	4.952
* 110 1,4-Dichlorobenzene-d4	152	13.391	13.400	(1.000)	224911	30.0000	
111 1,4-Dichlorobenzene	146	13.420	13.429	(1.002)	42727	4.83507	4.835
113 n-Butylbenzene	91	13.785	13.784	(1.029)	74260	4.46277	4.463
112 1,2-Dichlorobenzene	146	13.745	13.745	(1.026)	40700	4.78236	4.782
117 1,2-Dibromo-3-chloropropane	157	14.386	14.385	(1.074)	3874	4.62853	4.628
118 1,3,5-Trichlorobenzene	180	14.908	14.907	(1.113)	23781	4.64301	4.643
98 Bromobenzene	156	12.357	12.356	(0.923)	27971	4.88781	4.888
100 2-Chlorotoluene	91	12.573	12.572	(0.939)	94151	5.02649	5.026
101 4-Chlorotoluene	91	12.632	12.641	(0.943)	94448	4.75331	4.753
120 1,2,4-Trichlorobenzene	180	15.459	15.468	(1.154)	20364	4.70291	4.703
121 Naphthalene	128	15.617	15.616	(1.166)	55433	7.34771	7.348
109 p-Isopropyltoluene	119	13.381	13.380	(0.999)	70315	4.57446	4.574
122 Hexachlorobutadiene	225	15.745	15.744	(1.176)	15394	4.57614	4.576
123 1,2,3-Trichlorobenzene	180	15.903	15.902	(1.188)	18292	4.64875	4.649

QC Flag Legend

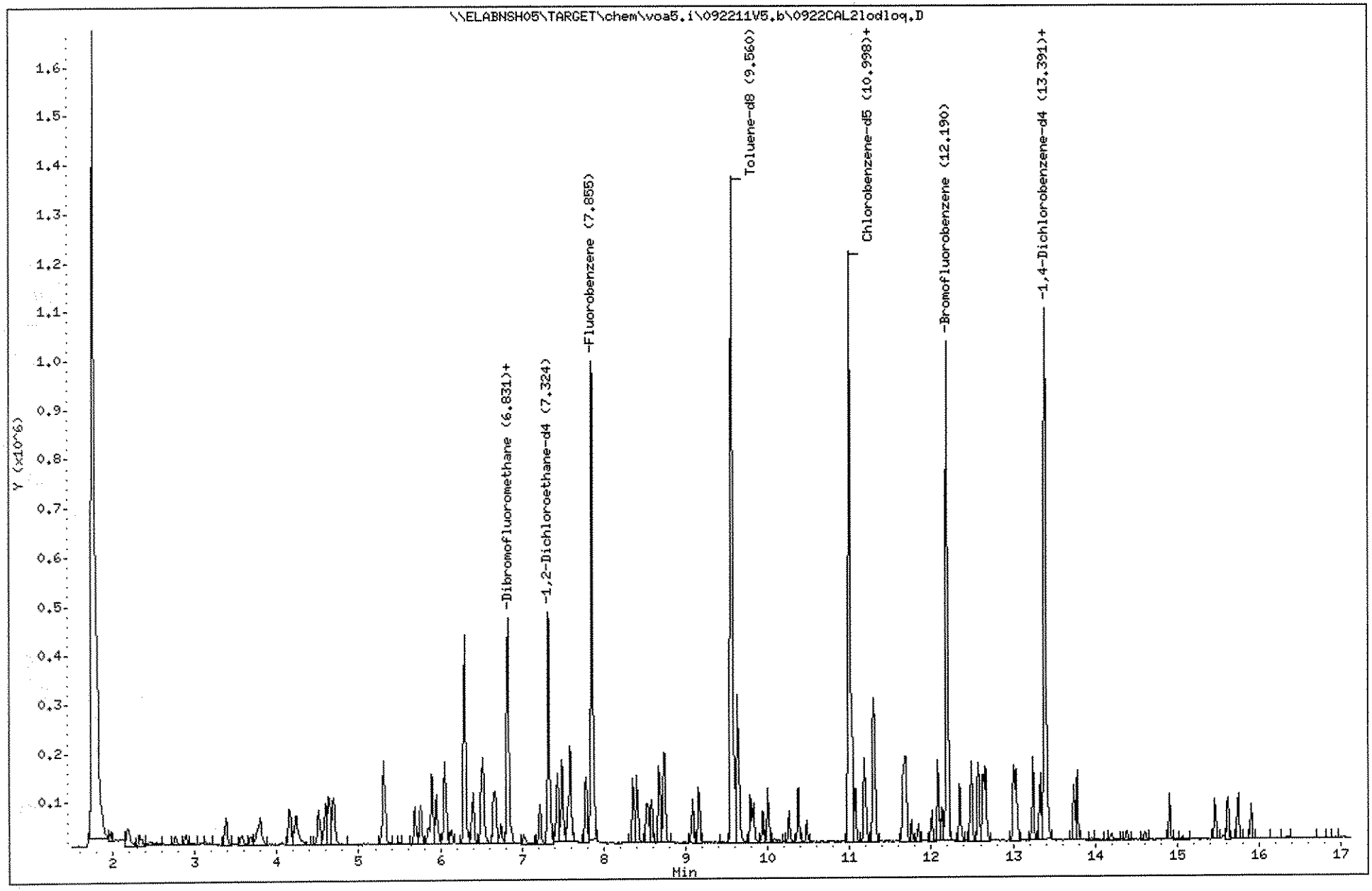
a - Target compound detected but, quantitated amount Below Limit Of Quantitation(BLOQ).
R - Spike/Surrogate failed recovery limits.

Data File: \\ELABNSH05\TARGET\chem\voa5.i\092211V5.b\0922CAL2lodloq.D
Date : 22-SEP-2011 14:51
Client ID: SEQ-CAL2
Sample Info: SEQ-CAL2;;;;;

Column phase: RTX-VRX

Instrument: voa5.i

Operator: ADM
Column diameter: 0.25



Data File: 0922CAL3lodloq.D
Report Date: 23-Sep-2011 08:59

Laboratory Name

Data file : \\ELABNSH05\TARGET\chem\voa5.i\092211V5.b\0922CAL3lodloq.D
Lab Smp Id: SEQ-CAL3 Client Smp ID: SEQ-CAL3
Inj Date : 22-SEP-2011 15:17
Operator : ADM Inst ID: voa5.i
Smp Info : SEQ-CAL3;;;;;
Misc Info : ;;;;;8260.sub;
Comment :
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Meth Date : 23-Sep-2011 08:58 amonteiro Quant Type: ISTD
Cal Date : 22-SEP-2011 17:30 Cal File: 0922CAL8.D
Als bottle: 4
Dil Factor: 1.00000
Integrator: HP RTE Compound Sublist: 8260.sub
Target Version: 4.04
Processing Host: TARGET02_VM

Concentration Formula: Amt * DF * 5*Uf/(Ws*(Solids/100))

Name	Value	Description
DF	1.000	Dilution Factor
Uf	1.000	unit correction factor
Ws	5.000	Weight of sample extracted (g)
Solids	100.000	Percent Solids

MG 9/23/11

Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS ON-COLUMN (ug/Kg)	FINAL (ug/Kg)
* 55 Fluorobenzene	96	7.858	7.864	(1.000)	811892	30.0000	
1 Dichlorodifluoromethane	85	1.977	1.974	(0.252)	69321	10.3112	10.31
2 Chloromethane	50	2.184	2.190	(0.278)	83666	9.95047	9.950
3 Vinyl chloride	62	2.322	2.328	(0.296)	38382	8.50114	8.501
4 Bromomethane	94	2.755	2.762	(0.351)	28856	8.94009	8.940
5 Chloroethane	64	2.893	2.890	(0.368)	46581	10.2220	10.22
7 Trichlorofluoromethane	101	3.376	3.382	(0.430)	112170	10.0664	10.07
11 Ethyl Ether	59	3.800	3.796	(0.484)	66941	10.1373	10.14
10 Acetonitrile	41	3.760	3.756	(0.479)	117748	100.884	100.9
13 Trichlorotrifluoroethane	101	4.233	4.239	(0.539)	81583	10.1717	10.17
8 Acrolein	56	3.573	3.569	(0.455)	44060	45.1121	45.11
19 Allyl chloride	76	4.588	4.594	(0.584)	41753	9.89449	9.894
12 1,1-Dichloroethene	96	4.154	4.160	(0.529)	76093	10.3969	10.40
9 Acetone	43	3.681	3.678	(0.469)	47738	19.0442	19.04
14 t-Butyl alcohol	59	4.292	4.288	(0.546)	31608	47.5992	47.60

CA 9/23/11

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	Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS ON-COLUMN (ug/Kg)	FINAL (ug/Kg)
	16 Iodomethane	142	4.351	4.357	(0.554)	20989	10.7117	10.71
	22 Carbon disulfide	76	4.696	4.702	(0.598)	298030	10.3287	10.33
	20 Methylene chloride	84	4.637	4.643	(0.590)	103484	10.9562	10.96
	18 Acrylonitrile	53	4.509	4.515	(0.574)	121453	49.6781	49.68
	24 trans-1,2-Dichloroethene	96	5.307	5.313	(0.675)	79677	10.2324	10.23
	23 MTBE	73	5.307	5.303	(0.675)	183398	10.2275	10.23
	26 1,1-Dichloroethane	63	5.691	5.687	(0.724)	168442	10.0885	10.09
	28 Propionitrile	54	5.848	5.855	(0.744)	90305	102.389	102.4
	27 Vinyl acetate	43	5.760	5.766	(0.733)	271671	20.3809	20.38
	30 Chloroprene	53	5.957	5.953	(0.758)	131470	9.85849	9.858
	33 Di-isopropyl ether	45	6.055	6.061	(0.771)	382884	10.6106	10.61
	37 cis-1,2-Dichloroethene	96	6.400	6.406	(0.814)	83390	10.1386	10.14
M	6 1,2-Dichloroethene(total)	96				163067	20.3710	20.37
	34 2-Butanone	43	6.134	6.130	(0.781)	85536	19.3926	19.39
	36 Methacrylonitrile	41	6.302	6.318	(0.802)	488719	108.251	108.2
	29 Hexane	57	5.898	5.904	(0.751)	152290	10.7173	10.72
	42 Bromochloromethane	128	6.686	6.682	(0.851)	35419	10.5927	10.59
	43 Isobutyl alcohol	42	6.745	6.751	(0.858)	36643	183.295	183.3
	45 Tetrahydrofuran	42	6.863	6.859	(0.873)	23007	9.79785	9.798
	46 tert-Amyl alcohol	59	7.030	7.027	(0.895)	25274	47.9062	47.91
	41 Chloroform	83	6.656	6.662	(0.847)	146883	10.3517	10.35
	17 Methyl acetate	43	4.499	4.495	(0.573)	65161	10.5494	10.55
$	44 Dibromofluoromethane	111	6.833	6.830	(0.870)	333389	47.9485	47.95(R)
	47 1,1,1-Trichloroethane	97	7.218	7.224	(0.919)	101644	10.0093	10.01
	40 ETBE	59	6.528	6.534	(0.831)	259875	10.4482	10.45
	51 Cyclohexane	56	7.493	7.500	(0.954)	163918	10.4293	10.43
	52 Carbon tetrachloride	117	7.562	7.568	(0.962)	76664	9.92251	9.922
$	48 1,2-Dichloroethane-d4	102	7.326	7.332	(0.932)	72067	50.4462	50.45(R)
	53 Benzene	78	7.592	7.598	(0.966)	330514	10.5765	10.58
	54 tert-Amyl Methyl Ether	73	7.789	7.785	(0.991)	199376	9.97248	9.972
	49 1,2-Dichloroethane	62	7.424	7.421	(0.945)	99370	10.0643	10.06
	39 2,2-Dichloropropane	77	6.508	6.515	(0.828)	108085	10.2067	10.21
	50 1,1-Dichloropropene	75	7.444	7.450	(0.947)	119133	10.3007	10.30
	56 Trichloroethene	95	8.360	8.357	(1.064)	87117	10.2071	10.21
	60 1,4-Dioxane	88	8.567	8.563	(1.090)	14253	233.025	233.0
	57 1,2-Dichloropropane	63	8.409	8.406	(1.070)	99265	10.3922	10.39
	58 Dibromomethane	93	8.518	8.524	(1.084)	47660	9.85440	9.854
	59 Methyl methacrylate	41	7.493	7.500	(0.954)	105319	10.5677	10.57
	61 Bromodichloromethane	83	8.587	8.583	(1.093)	103595	10.0891	10.09
	62 tert-Amyl Ethyl Ether	59	8.675	8.682	(1.104)	199939	10.2982	10.30
	70 cis-1,3-Dichloropropene	75	9.158	9.164	(1.165)	120797	10.2771	10.28
	69 4-Methyl-2-pentanone	43	9.079	9.085	(1.155)	149553	19.9853	19.98
$	71 Toluene-d8	98	9.562	9.558	(0.869)	1132755	48.1818	48.18(R)
	74 Toluene	92	9.641	9.637	(0.876)	173261	10.2124	10.21
	73 trans-1,3-Dichloropropene	75	9.631	9.637	(0.876)	103940	10.1530	10.15
	76 Ethyl methacrylate	69	9.828	9.824	(0.893)	83647	9.67143	9.671
	75 1,1,2-Trichloroethane	83	9.788	9.795	(0.890)	54769	10.1080	10.11

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Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS ON-COLUMN (ug/Kg)	FINAL (ug/Kg)
80 Tetrachloroethene	166	10.380	10.376	(0.944)	62665	10.2705	10.27
77 2-Hexanone	43	9.936	9.942	(0.903)	102446	18.8272	18.83
79 Dibromochloromethane	129	10.261	10.267	(0.933)	59974	9.81580	9.816
81 1,2-Dibromoethane	107	10.478	10.474	(0.953)	57212	9.86153	9.862
63 Methyl cyclohexane	83	8.735	8.741	(1.112)	134622	10.4620	10.46
* 82 Chlorobenzene-d5	82	11.000	10.996	(1.000)	357779	30.0000	
84 Chlorobenzene	112	11.030	11.036	(1.003)	173888	10.4880	10.49
85 1,1,1,2-Tetrachloroethane	131	11.069	11.075	(1.006)	53240	9.98428	9.984
83 1-Chlorohexane	91	11.000	10.996	(1.000)	105334	10.0774	10.08
86 Ethylbenzene	91	11.177	11.184	(1.016)	323556	10.4129	10.41
87 m,p-Xylene	91	11.296	11.292	(1.027)	447940	20.8426	20.84
M 119 Xylene(total)	91				649445	29.9076	29.91
89 o-Xylene	91	11.690	11.686	(1.063)	201505	9.06498	9.065
88 Styrene	104	11.650	11.656	(1.059)	164474	9.64958	9.650
90 Bromoform	173	11.759	11.755	(1.069)	33391	9.37237	9.372
91 cis-1,4-Dichloro-2-butene	53	11.837	11.843	(0.884)	15451	9.14904	9.149
94 Isopropylbenzene	105	12.084	12.080	(1.098)	247694	10.2527	10.25
$ 97 Bromofluorobenzene	95	12.192	12.188	(1.108)	457105	46.0709	46.07(R)
93 1,1,2,2-Tetrachloroethane	83	12.005	12.001	(0.896)	66039	9.89261	9.893
78 1,3-Dichloropropane	76	10.005	10.001	(0.910)	108197	10.2390	10.24
95 1,2,3-Trichloropropane	110	12.133	12.129	(1.103)	15275	9.57317	9.573
96 trans-1,4-Dichloro-2-butene	53	12.153	12.149	(0.907)	17910	9.98831	9.988
99 n-Propylbenzene	91	12.487	12.494	(0.932)	319225	10.2710	10.27
102 1,3,5-Trimethylbenzene	105	12.665	12.671	(0.946)	173544	9.80420	9.804
106 1,2,4-Trimethylbenzene	105	13.039	13.045	(0.974)	165706	10.1152	10.12
107 sec-Butylbenzene	105	13.246	13.242	(0.989)	239170	9.83521	9.835
105 tert-Butylbenzene	119	13.010	13.016	(0.971)	155710	9.95391	9.954
108 1,3-Dichlorobenzene	146	13.335	13.331	(0.996)	98331	10.2244	10.22
* 110 1,4-Dichlorobenzene-d4	152	13.394	13.400	(1.000)	232475	30.0000	
111 1,4-Dichlorobenzene	146	13.423	13.429	(1.002)	93635	10.2512	10.25
113 n-Butylbenzene	91	13.788	13.784	(1.029)	166509	9.68104	9.681
112 1,2-Dichlorobenzene	146	13.738	13.745	(1.026)	89191	10.1392	10.14
117 1,2-Dibromo-3-chloropropane	157	14.389	14.385	(1.074)	8177	9.45175	9.452
118 1,3,5-Trichlorobenzene	180	14.911	14.907	(1.113)	52618	9.93889	9.939
98 Bromobenzene	156	12.350	12.356	(0.922)	61062	10.3231	10.32
100 2-Chlorotoluene	91	12.576	12.572	(0.939)	199445	10.3014	10.30
101 4-Chlorotoluene	91	12.635	12.641	(0.943)	213251	10.3831	10.38
120 1,2,4-Trichlorobenzene	180	15.462	15.468	(1.154)	43299	9.67423	9.674
121 Naphthalene	128	15.620	15.616	(1.166)	88030	11.8508	11.85
109 p-Isopropyltoluene	119	13.384	13.380	(0.999)	155149	9.76507	9.765
122 Hexachlorobutadiene	225	15.748	15.744	(1.176)	33178	9.54185	9.542
123 1,2,3-Trichlorobenzene	180	15.905	15.902	(1.188)	40035	9.84348	9.843

QC Flag Legend

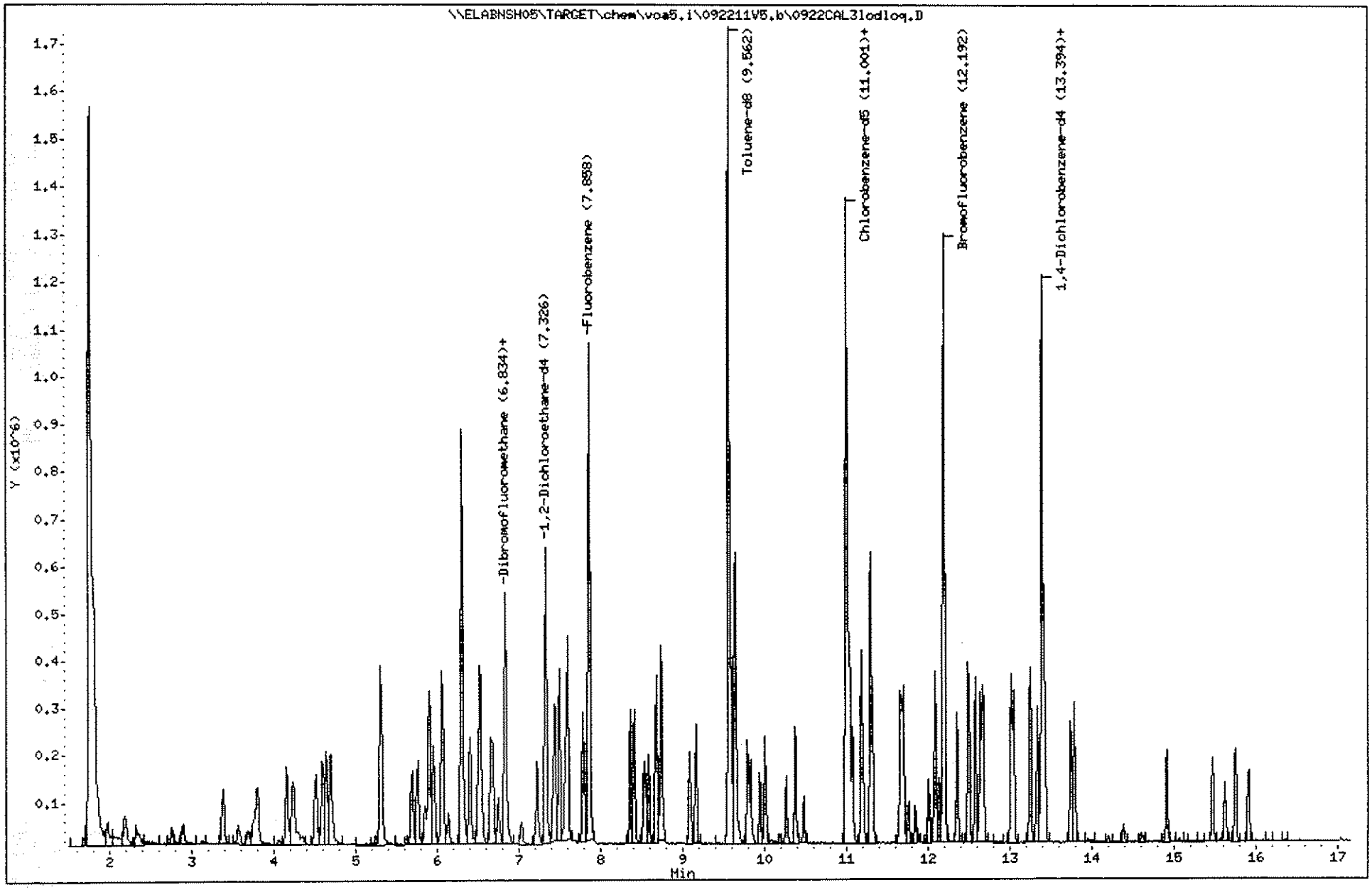
R - Spike/Surrogate failed recovery limits.

Data File: \\ELABNSH05\TARGET\chem\voa5.i\092211V5.b\0922CAL3lodloq.D
Date : 22-SEP-2011 15:17
Client ID: SEQ-CAL3
Sample Info: SEQ-CAL3;;;;;

Instrument: voa5.i

Operator: ADM
Column diameter: 0.25

Column phase: RTX-VRX



Data File: 0922CAL4lodloq.D
Report Date: 23-Sep-2011 08:59

Laboratory Name

Data file : \\ELABNSH05\TARGET\chem\voa5.i\092211V5.b\0922CAL4lodloq.D
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Inj Date : 22-SEP-2011 15:44
Operator : ADM Inst ID: voa5.i
Smp Info : SEQ-CAL4;;;;;
Misc Info : ;;;;;8260.sub;
Comment :
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Cal Date : 22-SEP-2011 17:30 Cal File: 0922CAL8.D
Als bottle: 5
Dil Factor: 1.00000
Integrator: HP RTE Compound Sublist: 8260.sub
Target Version: 4.04
Processing Host: TARGET02_VM

Concentration Formula: Amt * DF * 5*Uf/(Ws*(Solids/100))

Name	Value	Description
DF	1.000	Dilution Factor
Uf	1.000	unit correction factor
Ws	5.000	Weight of sample extracted (g)
Solids	100.000	Percent Solids

Mg 1 L 3/11

Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS ON-COLUMN (ug/Kg)	FINAL (ug/Kg)
* 55 Fluorobenzene	96	7.861	7.864	(1.000)	811527	30.0000	
1 Dichlorodifluoromethane	85	1.980	1.974	(0.252)	115623	17.2062	17.21
2 Chloromethane	50	2.187	2.190	(0.278)	156004	18.5620	18.56
3 Vinyl chloride	62	2.325	2.328	(0.296)	81860	18.1391	18.14
4 Bromomethane	94	2.759	2.762	(0.351)	56527	17.5209	17.52
5 Chloroethane	64	2.896	2.890	(0.368)	84713	18.5983	18.60
7 Trichlorofluoromethane	101	3.379	3.382	(0.430)	218906	19.6540	19.65
11 Ethyl Ether	59	3.793	3.796	(0.483)	133195	20.1796	20.18
10 Acetonitrile	41	3.753	3.756	(0.478)	235413	201.788	201.8
13 Trichlorotrifluoroethane	101	4.236	4.239	(0.539)	156879	19.5683	19.57
8 Acrolein	56	3.566	3.569	(0.454)	91791	94.0251	94.02
19 Allyl chloride	76	4.591	4.594	(0.584)	84427	20.0162	20.02
12 1,1-Dichloroethene	96	4.157	4.160	(0.529)	144007	19.6852	19.68
9 Acetone	43	3.675	3.678	(0.467)	95470	38.1031	38.10
14 t-Butyl alcohol	59	4.295	4.288	(0.546)	68951	103.882	103.9

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	Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS ON-COLUMN (ug/Kg)	FINAL (ug/Kg)
	16 Iodomethane	142	4.354	4.357	(0.554)	59448	16.9763	16.98
	22 Carbon disulfide	76	4.689	4.702	(0.597)	566069	19.6269	19.63
	20 Methylene chloride	84	4.640	4.643	(0.590)	186698	19.7752	19.78
	18 Acrylonitrile	53	4.512	4.515	(0.574)	249199	101.976	102.0
	24 trans-1,2-Dichloroethene	96	5.310	5.313	(0.675)	158369	20.3475	20.35
	23 MTBE	73	5.300	5.303	(0.674)	357699	19.9567	19.96
	26 1,1-Dichloroethane	63	5.684	5.687	(0.723)	336842	20.1835	20.18
	28 Propionitrile	54	5.852	5.855	(0.744)	184326	209.085	209.1
	27 Vinyl acetate	43	5.753	5.766	(0.732)	547981	41.1283	41.13
	30 Chloroprene	53	5.950	5.953	(0.757)	270652	20.3044	20.30
	33 Di-isopropyl ether	45	6.058	6.061	(0.771)	744329	20.6363	20.64
	37 cis-1,2-Dichloroethene	96	6.403	6.406	(0.815)	162107	19.7179	19.72
M	6 1,2-Dichloroethene(total)	96				320476	40.0654	40.06
	34 2-Butanone	43	6.127	6.130	(0.779)	176576	40.0511	40.05
	36 Methacrylonitrile	41	6.305	6.318	(0.802)	992117	219.852	219.8
	29 Hexane	57	5.901	5.904	(0.751)	279034	19.6457	19.64
	42 Bromochloromethane	128	6.679	6.682	(0.850)	66664	19.9460	19.95
	43 Isobutyl alcohol	42	6.738	6.751	(0.857)	82717	413.952	414.0
	45 Tetrahydrofuran	42	6.866	6.859	(0.873)	48348	20.5989	20.60
	46 tert-Amyl alcohol	59	7.024	7.027	(0.893)	53696	101.825	101.8
	41 Chloroform	83	6.659	6.662	(0.847)	284088	20.0303	20.03
	17 Methyl acetate	43	4.502	4.495	(0.573)	121958	19.7536	19.75
$	44 Dibromofluoromethane	111	6.827	6.830	(0.868)	398193	57.2944	57.29(R)
	47 1,1,1-Trichloroethane	97	7.221	7.224	(0.919)	200396	19.7427	19.74
	40 ETBE	59	6.521	6.534	(0.830)	511486	20.5734	20.57
	51 Cyclohexane	56	7.497	7.500	(0.954)	310260	19.7492	19.75
	52 Carbon tetrachloride	117	7.565	7.568	(0.962)	150473	19.4843	19.48
$	48 1,2-Dichloroethane-d4	102	7.329	7.332	(0.932)	83426	58.4237	58.42(R)
	53 Benzene	78	7.595	7.598	(0.966)	637560	20.4111	20.41
	54 tert-Amyl Methyl Ether	73	7.782	7.785	(0.990)	401179	20.0754	20.08
	49 1,2-Dichloroethane	62	7.418	7.421	(0.944)	199580	20.2229	20.22
	39 2,2-Dichloropropane	77	6.511	6.515	(0.828)	212632	20.0884	20.09
	50 1,1-Dichloropropene	75	7.437	7.450	(0.946)	231963	20.0655	20.06
	56 Trichloroethene	95	8.363	8.357	(1.064)	170632	20.0011	20.00
	60 1,4-Dioxane	88	8.560	8.563	(1.089)	25076	410.156	410.2
	57 1,2-Dichloropropane	63	8.403	8.406	(1.069)	195804	20.5081	20.51
	58 Dibromomethane	93	8.521	8.524	(1.084)	99275	20.5358	20.54
	59 Methyl methacrylate	41	7.497	7.500	(0.954)	202993	20.3776	20.38
	61 Bromodichloromethane	83	8.580	8.583	(1.091)	204187	19.8946	19.89
	62 tert-Amyl Ethyl Ether	59	8.679	8.682	(1.104)	393822	20.2936	20.29
	66 2-Chloroethyl vinyl ether	63	9.023	9.016	(1.148)	908	42.5925	42.59(T)
	70 cis-1,3-Dichloropropene	75	9.161	9.164	(1.165)	234535	19.9627	19.96
	69 4-Methyl-2-pentanone	43	9.082	9.085	(1.155)	306922	41.0335	41.03
$	71 Toluene-d8	98	9.565	9.558	(0.870)	1291593	55.0818	55.08(R)
	74 Toluene	92	9.634	9.637	(0.876)	339975	20.0913	20.09
	73 trans-1,3-Dichloropropene	75	9.634	9.637	(0.876)	204978	20.0749	20.07
	76 Ethyl methacrylate	69	9.821	9.824	(0.893)	166852	19.3423	19.34

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Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS ON-COLUMN (ug/Kg)	FINAL (ug/Kg)
75 1,1,2-Trichloroethane	83	9.792	9.795	(0.891)	105905	19.5967	19.60
80 Tetrachloroethene	166	10.373	10.376	(0.944)	117723	19.3448	19.34
77 2-Hexanone	43	9.939	9.942	(0.904)	213481	39.3355	39.34
79 Dibromochloromethane	129	10.264	10.267	(0.934)	118538	19.4516	19.45
81 1,2-Dibromoethane	107	10.471	10.474	(0.953)	117499	20.3061	20.31
63 Methyl cyclohexane	83	8.738	8.741	(1.112)	261702	20.3471	20.35
* 82 Chlorobenzene-d5	82	10.993	10.996	(1.000)	356845	30.0000	
84 Chlorobenzene	112	11.033	11.036	(1.004)	327800	19.8229	19.82
85 1,1,1,2-Tetrachloroethane	131	11.072	11.075	(1.007)	105039	19.7499	19.75
83 1-Chlorohexane	91	11.003	10.996	(1.001)	204605	19.6260	19.63
86 Ethylbenzene	91	11.180	11.184	(1.017)	623335	20.1132	20.11
87 m,p-Xylene	91	11.299	11.292	(1.028)	885192	41.2958	41.30
M 119 Xylene(total)	91				1338201	61.7283	61.73
89 o-Xylene	91	11.683	11.686	(1.063)	453009	20.4326	20.43
88 Styrene	104	11.653	11.656	(1.060)	341141	20.0669	20.07
90 Bromoform	173	11.752	11.755	(1.069)	70298	19.7833	19.78
91 cis-1,4-Dichloro-2-butene	53	11.840	11.843	(0.884)	34666	19.9716	19.97
94 Isopropylbenzene	105	12.077	12.080	(1.099)	483015	20.0455	20.04
$ 97 Bromofluorobenzene	95	12.195	12.188	(1.109)	530880	53.6466	53.65(R)
93 1,1,2,2-Tetrachloroethane	83	12.008	12.001	(0.896)	132481	19.3087	19.31
78 1,3-Dichloropropane	76	9.998	10.001	(0.910)	212598	20.1715	20.17
95 1,2,3-Trichloropropane	110	12.126	12.129	(1.103)	32191	20.2276	20.23
96 trans-1,4-Dichloro-2-butene	53	12.146	12.149	(0.907)	35837	19.4454	19.44
99 n-Propylbenzene	91	12.491	12.494	(0.932)	636531	19.9263	19.93
102 1,3,5-Trimethylbenzene	105	12.668	12.671	(0.946)	357959	19.6755	19.68
106 1,2,4-Trimethylbenzene	105	13.042	13.045	(0.974)	324638	19.2807	19.28
107 sec-Butylbenzene	105	13.239	13.242	(0.988)	496912	19.8813	19.88
105 tert-Butylbenzene	119	13.013	13.016	(0.971)	315980	19.6529	19.65
108 1,3-Dichlorobenzene	146	13.328	13.331	(0.995)	192619	19.4866	19.49
* 110 1,4-Dichlorobenzene-d4	152	13.397	13.400	(1.000)	238939	30.0000	
111 1,4-Dichlorobenzene	146	13.426	13.429	(1.002)	179227	19.0909	19.09
113 n-Butylbenzene	91	13.781	13.784	(1.029)	340334	19.2521	19.25
112 1,2-Dichlorobenzene	146	13.742	13.745	(1.026)	179376	19.8397	19.84
117 1,2-Dibromo-3-chloropropane	157	14.382	14.385	(1.074)	17471	19.6483	19.65
118 1,3,5-Trichlorobenzene	180	14.904	14.907	(1.112)	104633	19.2292	19.23
98 Bromobenzene	156	12.353	12.356	(0.922)	120163	19.7652	19.76
100 2-Chlorotoluene	91	12.579	12.572	(0.939)	393886	19.7940	19.79
101 4-Chlorotoluene	91	12.638	12.641	(0.943)	424646	20.1166	20.12
120 1,2,4-Trichlorobenzene	180	15.465	15.468	(1.154)	86996	18.9115	18.91
121 Naphthalene	128	15.613	15.616	(1.165)	145699	19.7232	19.72
109 p-Isopropyltoluene	119	13.377	13.380	(0.999)	316469	19.3797	19.38
122 Hexachlorobutadiene	225	15.751	15.744	(1.176)	66450	18.5937	18.59
123 1,2,3-Trichlorobenzene	180	15.899	15.902	(1.187)	78916	18.8783	18.88

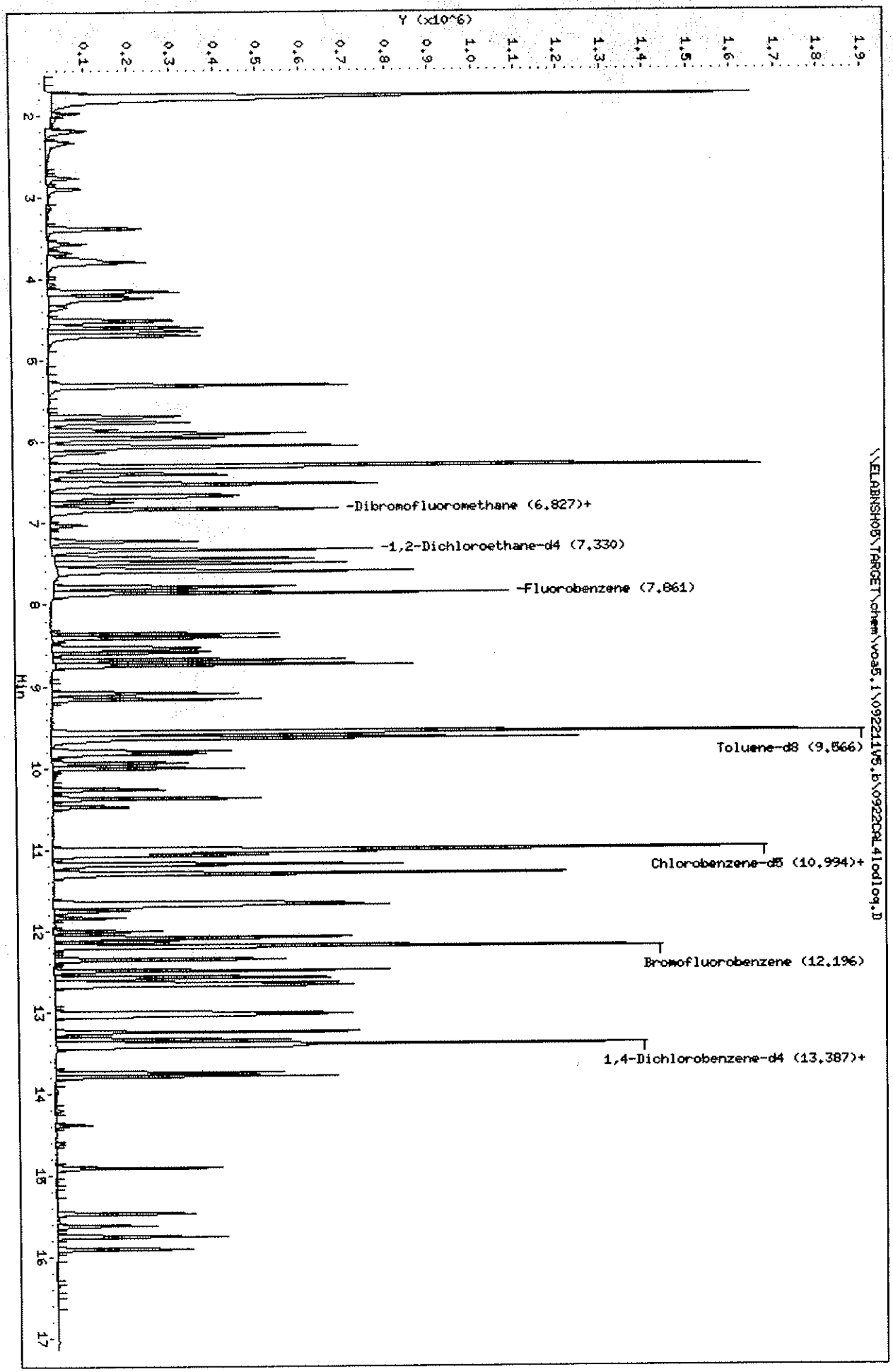
Data File: 0922CAL4lodloq.D
Report Date: 23-Sep-2011 08:59

QC Flag Legend

T - Target compound detected outside RT window.
R - Spike/Surrogate failed recovery limits.

Data File: \\ELABNSH05\TARGET\chem\voa5.i\092211V5.b\0922CAL4lodloq.D
Date : 22-SEP-2011 15:44
Client ID: SEQ-CAL4
Sample Info: SEQ-CAL4;;;;;
Column phase: RTX-VRX

Instrument: voa5.i
Operator: ADM
Column diameter: 0.25



Sequence Name: C:\HPCHEM\1\SEQUENCE\[illegible]
Comment: 8260B/6200B/624
Operator: ADM
Data Path: C:\HPCHEM\1\DATA\092711V5\
Pre-Seq Cmd:
Post-Seq Cmd:

M 9/27/11

Method Sections To Run
(X) Full Method
( ) Reprocessing Only

On A Barcode Mismatch
(X) Inject Anyway
( ) Don't Inject

8784

Line	Type	Vial	DataFile	Method	Sample Name
1	Blank	48	PREBLK1	VS5SUR	BLANK;;;;;
2	Blank	49	PREBLK2	VS5SUR	BLANK;;;;;
3	Blank	50	PREBLK3	VS5SUR	BLANK;;;;;
4	Sample	51	0927TU1	VS5SUR	SEQ-TUN1;;;;; 6:45, 9/27
5	Sample	1	0927CCV1	VS5SUR	SEQ-CCV1;;;;;
6	Sample	2	0927LCS1	VS5SUR	-BS1;;;;;
7	Sample	3	0927RL1	VS5SUR	SEQ-LCV1;;;;;
8	Blank	4	BLANK	VS5SUR	BLANK;;;;;
9	Sample	5	0927BLK1	VS5SUR	1I27005-BLK1;;;;;
10	Sample	6	0927BLK2	VS5SUR	1I27005-BLK2;50;;;;
11	Sample	7	0918801R	VS5SUR	1109188-01RE1;;;;;
12	Sample	8	0917402R	VS5SUR	1109174-02RE1;;;;;
13	Sample	9	0919101	VS5SUR	1109191-01;;;;;
14	Sample	10	0919102	VS5SUR	1109191-02;;;;;
15	Sample	11	0919103	VS5SUR	1109191-03;;;;;
16	Sample	12	0919104	VS5SUR	1109191-04;;;;; -KA B - 15/5mL out
17	Sample	13	0919106	VS5SUR	1109191-06;;;;;
18	Sample	14	0919201	VS5SUR	1109192-01;;;;; -KA B - 15/5mL out
19	Sample	15	0919202	VS5SUR	1109192-02;;;;;
20	Sample	16	0919203	VS5SUR	1109192-03;;;;;
21	Sample	17	0919105D	VS5SUR	1109191-05;50;;;; -KA 1X
22	Sample	18	0919205D	VS5SUR	1109192-05;50;;;; -KA 1X
23	Sample	19	0919206D	VS5SUR	1109192-06;50;;;; -KA 1X
24	Sample	20	0919211D	VS5SUR	1109192-11;50;;;; -KA 1X
25	Sample	21	0919213D	VS5SUR	1109192-13;50;;;; -KA 1X
26	Sample	22	0919215D	VS5SUR	1109192-15;50;;;; -KA 1X
27	Sample	23	0919216D	VS5SUR	1109192-16;50;;;;
28	Blank	24	BLANK1	VS5SUR	BLANK;;;;;
29	Sample	25	0919102M	VS5SUR	1I27005-MS1;;;;;
30	Sample	26	0919102S	VS5SUR	1I27005-MSD1;;;;;

18:24, 9/27

Last Modified: Tue Sep 27 11:23:39 2011 Page: 1

Data File: \\ELABNSH05\TARGET\chem\voa5.i\092711V5.b\0927TU1.D

Date : 27-SEP-2011 06:45

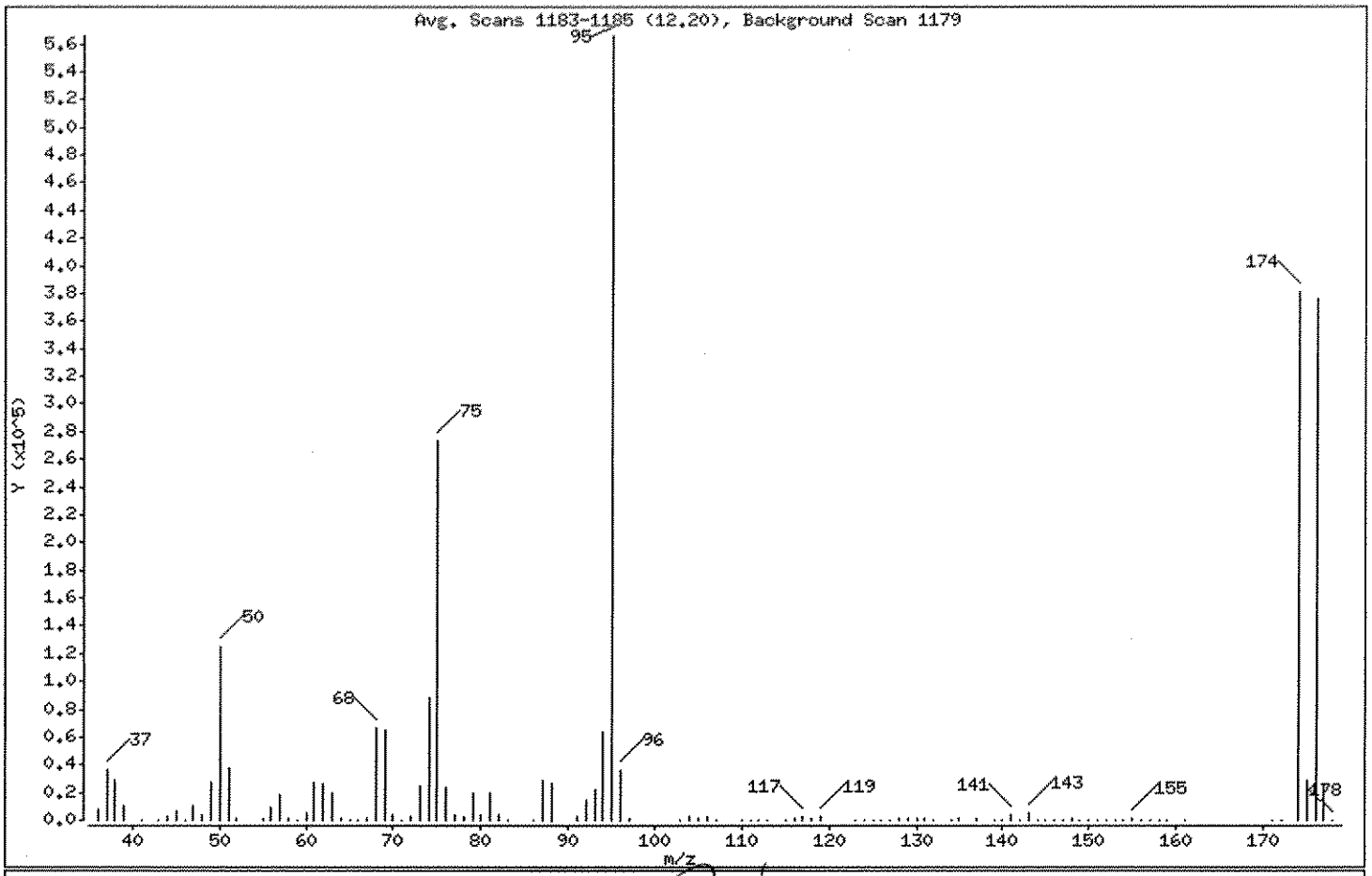
Client ID: SEQ-TUN1 Instrument: voa5.i

Sample Info: SEQ-TUN1;;;;;

Operator: ADM

Column phase: RTX-VRX Column diameter: 0.25

1 bfb



KDW 9-29-11

m/e	ION ABUNDANCE CRITERIA	% RELATIVE ABUNDANCE
95	Base Peak, 100% relative abundance	100.00
50	15.00 - 40.00% of mass 95	22.00
75	30.00 - 60.00% of mass 95	48.20
96	5.00 - 9.00% of mass 95	6.47
173	Less than 2.00% of mass 174	0.00 (0.00)
174	Greater than 50.00% of mass 95	67.28
175	5.00 - 9.00% of mass 174	5.09 (7.56)
176	95.00 - 101.00% of mass 174	66.48 (98.80)
177	5.00 - 9.00% of mass 176	4.39 (6.61)

MA 9/27/11

Report Date: 27-Sep-2011 07:42

Calibration History

Method : \\ELABNSH05\TARGET\chem\voa5.i\092711V5.b\VS5SUR.m
Start Cal Date: 22-SEP-2011 14:24
End Cal Date : 22-SEP-2011 17:30
Last Cal Level: 1
Last Cal Type : Initial Calibration

Initial Calibration

Injection Date	Sublist	Calibration File
Cal Level: 1 , Cal Amount: 2.000		
22-SEP-2011 14:24	8260	0922CAL1.D
Cal Level: 2 , Cal Amount: 5.000		
22-SEP-2011 14:51	8260	0922CAL2.D
Cal Level: 3 , Cal Amount: 10.00		
22-SEP-2011 15:17	8260	0922CAL3.D
Cal Level: 4 , Cal Amount: 20.00		
22-SEP-2011 15:44	8260	0922CAL4.D
Cal Level: 5 , Cal Amount: 40.00		
22-SEP-2011 16:10	8260	0922CAL5.D
Cal Level: 6 , Cal Amount: 100.0		
22-SEP-2011 16:37	8260	0922CAL6.D
Cal Level: 7 , Cal Amount: 150.0		
22-SEP-2011 17:03	8260	0922CAL7.D
Cal Level: 8 , Cal Amount: 200.0		
22-SEP-2011 17:30	8260	0922CAL8.D

Continuing Calibration

27-SEP-2011 07:11	8260	0927CCV1.D
27-SEP-2011 07:11	8260	0927CCV1.D
26-SEP-2011 08:25	8260	0926CCV1.D
26-SEP-2011 08:25	8260	0926CCV1.D
26-SEP-2011 07:06	8260	0926CCV1.D
26-SEP-2011 07:06	8260	0926CCV1.D
23-SEP-2011 09:16	8260	0923CCV1.D
23-SEP-2011 09:16	8260	0923CCV1.D

Data File: \\ELABNSH05\TARGET\chem\voa5.i\092711V5.b\0927TU1.D

Date : 27-SEP-2011 06:45

Client ID: SEQ-TUN1 Instrument: voa5.i

Sample Info: SEQ-TUN1;;;;;

Operator: ADM

Column phase: RTX-VRX Column diameter: 0.25

Data File: 0927TU1.D
Spectrum: Avg. Scans 1183-1185 (12.20), Background Scan 1179
Location of Maximum: 95.00
Number of points: 110

m/z	Y	m/z	Y	m/z	Y	m/z	Y
36.00	7347	68.00	66544	105.00	745	142.00	514
37.00	36536	69.00	65088	106.00	2449	143.00	4601
38.00	29224	70.00	4426	107.00	537	144.00	72
39.00	10976	71.00	199	110.00	282	145.00	326
41.00	58	72.00	3234	111.00	380	146.00	503
43.00	380	73.00	24928	112.00	264	147.00	296
44.00	2938	74.00	88712	113.00	459	148.00	1102
45.00	6141	75.00	272768	115.00	458	149.00	362
46.00	551	76.00	23408	116.00	1614	150.00	534
47.00	10182	77.00	3853	117.00	2838	151.00	121
48.00	4224	78.00	2661	118.00	1577	152.00	69
49.00	27016	79.00	20016	119.00	2386	153.00	296
50.00	124528	80.00	4410	123.00	184	154.00	268
51.00	37544	81.00	19816	124.00	290	155.00	947
52.00	1484	82.00	3584	125.00	116	156.00	173
55.00	1828	83.00	327	126.00	176	157.00	633
56.00	9241	86.00	146	127.00	132	158.00	149
57.00	17704	87.00	28264	128.00	1741	159.00	508
58.00	756	88.00	27640	129.00	700	161.00	564
59.00	79	91.00	2081	130.00	1786	171.00	67
60.00	5760	92.00	14474	131.00	683	172.00	154
61.00	27576	93.00	21512	132.00	62	174.00	380800
62.00	26616	94.00	63248	134.00	66	175.00	28792
63.00	19056	95.00	565952	135.00	856	176.00	376256
64.00	1635	96.00	36632	137.00	788	177.00	24872
65.00	279	97.00	980	139.00	57	178.00	639
66.00	56	103.00	261	140.00	145		
67.00	1931	104.00	2485	141.00	4456		

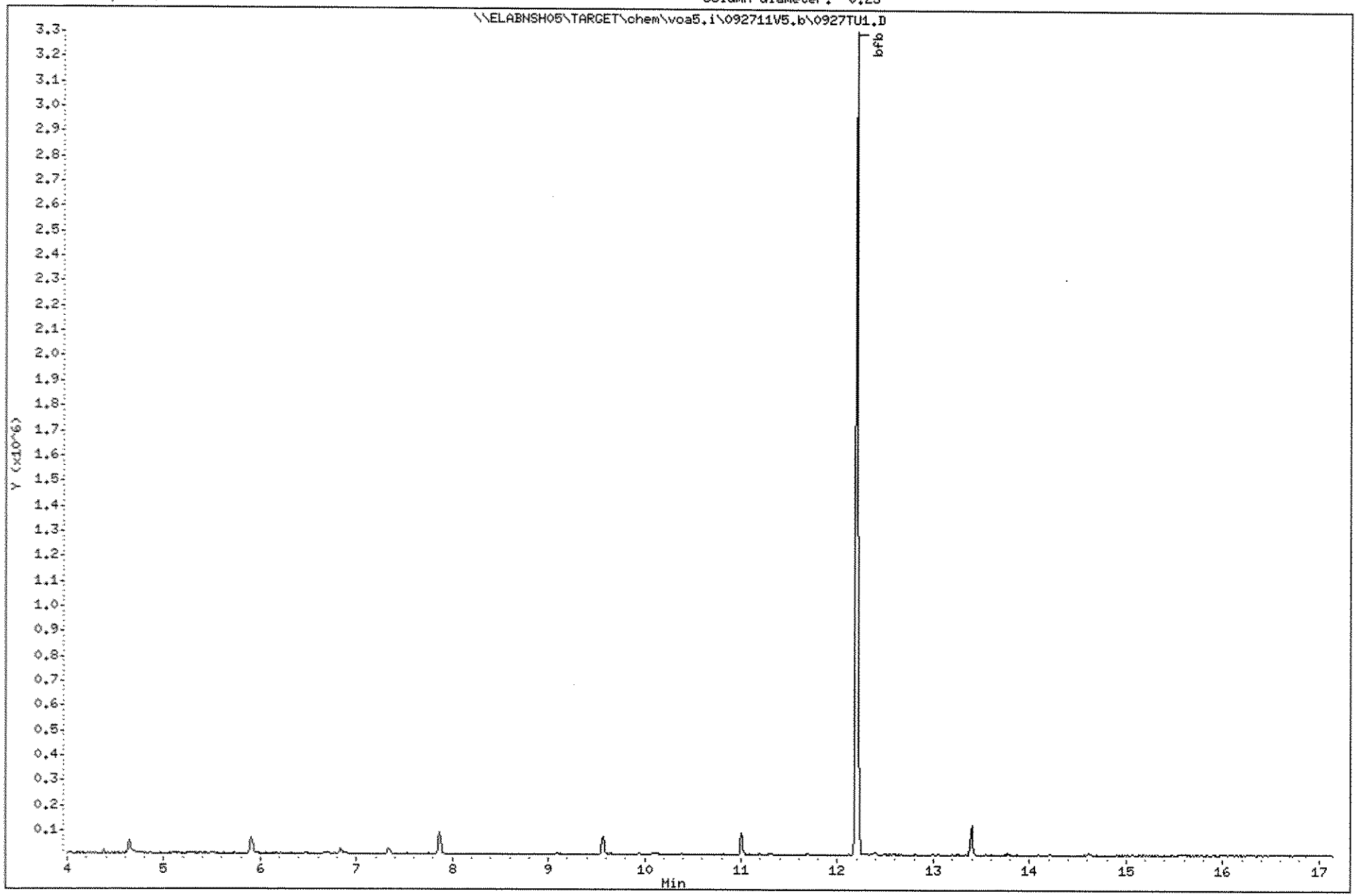
Data File: \\ELABNSH05\TARGET\chem\voa5.i\092711V5.b\0927TU1.D
Date : 27-SEP-2011 06:45
Client ID: SEQ-TUN1
Sample Info: SEQ-TUN1;;;;;

Instrument: voa5.i

Operator: ADM

Column phase: RTX-VRX

Column diameter: 0.25



Data File: \\ELABNSH05\TARGET\chem\voa5.i\092711V5.b\0927CCV1.D
Report Date: 27-Sep-2011 07:42

Laboratory Name

Data file : \\ELABNSH05\TARGET\chem\voa5.i\092711V5.b\0927CCV1.D
Lab Smp Id: SEQ-CCV1 Client Smp ID: SEQ-CCV1
Inj Date : 27-SEP-2011 07:11 MS Autotune Date: 28-JUL-1998 05:19
Operator : ADM Inst ID: voa5.i
Smp Info : SEQ-CCV1;;;;;
Misc Info : ;2;;;;8260.sub;
Comment :
Method : \\ELABNSH05\TARGET\chem\voa5.i\092711V5.b\VS5SUR.m
Meth Date : 27-Sep-2011 07:39 amonteiro Quant Type: ISTD
Cal Date : 22-SEP-2011 14:24 Cal File: 0922CAL1.D
Als bottle: 1 Continuing Calibration Sample
Dil Factor: 1.00000
Integrator: HP RTE Compound Sublist: 8260.sub
Target Version: 4.04
Processing Host: TARGET02_VM

Concentration Formula: Amt * DF * 5*Uf/(Ws*(Solids/100))

Name	Value	Description
DF	1.000	Dilution Factor
Uf	1.000	unit correction factor
Ws	5.000	Weight of sample extracted (g)
Solids	100.000	Percent Solids

Mg 9/27/11

9-29-11

Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	AMOUNTS CAL-AMT (ug/Kg)	AMOUNTS ON-COL (ug/Kg)
* 55 Fluorobenzene	96	7.864	7.864	(1.000)	788018	30.0000	
1 Dichlorodifluoromethane	85	1.974	1.974	(0.251)	737047	100.000	113.0
2 Chloromethane	50	2.191	2.191	(0.279)	848215	100.000	103.9
3 Vinyl chloride	62	2.338	2.338	(0.297)	521225	100.000	118.9
4 Bromomethane	94	2.772	2.772	(0.352)	430377	100.000	137.4
5 Chloroethane	64	2.900	2.900	(0.369)	448789	100.000	101.5
7 Trichlorofluoromethane	101	3.392	3.392	(0.431)	1188519	100.000	109.9
11 Ethyl Ether	59	3.806	3.806	(0.484)	656837	100.000	102.5
10 Acetonitrile	41	3.767	3.767	(0.479)	1017177	1000.00	897.9
13 Trichlorotrifluoroethane	101	4.240	4.240	(0.539)	821015	100.000	105.5
8 Acrolein	56	3.570	3.570	(0.454)	518154	500.000	546.6
19 Allyl chloride	76	4.604	4.604	(0.585)	434596	100.000	106.1
12 1,1-Dichloroethene	96	4.161	4.161	(0.529)	754371	100.000	106.2
9 Acetone	43	3.688	3.688	(0.469)	471046	200.000	193.6
14 t-Butyl alcohol	59	4.299	4.299	(0.547)	478791	500.000	742.9

Data File: \\ELABNSH05\TARGET\chem\voa5.i\092711V5.b\0927CCV1.D
Report Date: 27-Sep-2011 07:42

	Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	AMOUNTS CAL-AMT (ug/Kg)	AMOUNTS ON-COL (ug/Kg)
	16 Iodomethane	142	4.358	4.358	(0.554)	820388	100.000	144.9
	22 Carbon disulfide	76	4.702	4.702	(0.598)	2958535	100.000	105.6
	20 Methylene chloride	84	4.643	4.643	(0.590)	862101	100.000	94.04
	18 Acrylonitrile	53	4.515	4.515	(0.574)	1133851	500.000	477.8
	24 trans-1,2-Dichloroethene	96	5.323	5.323	(0.677)	762466	100.000	100.9
	23 MTBE	73	5.313	5.313	(0.676)	1198799	100.000	68.88
	26 1,1-Dichloroethane	63	5.697	5.697	(0.724)	1656753	100.000	102.2
	28 Propionitrile	54	5.855	5.855	(0.745)	832223	1000.00	972.2
	27 Vinyl acetate	43	5.766	5.766	(0.733)	2921752	200.000	225.8
	30 Chloroprene	53	5.963	5.963	(0.758)	1383416	100.000	106.9
	33 Di-isopropyl ether	45	6.062	6.062	(0.771)	3434995	100.000	98.07
	37 cis-1,2-Dichloroethene	96	6.407	6.407	(0.815)	841453	100.000	105.4
M	6 1,2-Dichloroethene(total)	96				1603920	200.000	206.3
	34 2-Butanone	43	6.141	6.141	(0.781)	854969	200.000	199.7
	36 Methacrylonitrile	41	6.318	6.318	(0.803)	4008112	1000.00	914.7
	29 Hexane	57	5.904	5.904	(0.751)	1423494	100.000	103.2
	42 Bromochloromethane	128	6.692	6.692	(0.851)	326755	100.000	100.7
	43 Isobutyl alcohol	42	6.751	6.751	(0.858)	373327	2000.00	1924
	45 Tetrahydrofuran	42	6.870	6.870	(0.874)	230691	100.000	101.2
	46 tert-Amyl alcohol	59	7.037	7.037	(0.895)	178615	500.000	348.8
	41 Chloroform	83	6.663	6.663	(0.847)	1403251	100.000	101.9
	17 Methyl acetate	43	4.505	4.505	(0.573)	580132	100.000	96.77
$	44 Dibromofluoromethane	111	6.840	6.840	(0.870)	219496	30.0000	32.52
	47 1,1,1-Trichloroethane	97	7.224	7.224	(0.919)	1059876	100.000	107.5
	40 ETBE	59	6.535	6.535	(0.831)	710355	100.000	29.42
	51 Cyclohexane	56	7.500	7.500	(0.954)	1563582	100.000	102.5
	52 Carbon tetrachloride	117	7.569	7.569	(0.962)	837136	100.000	111.6
$	48 1,2-Dichloroethane-d4	102	7.332	7.332	(0.932)	41070	30.0000	29.62
	53 Benzene	78	7.598	7.598	(0.966)	3043088	100.000	100.3
	54 tert-Amyl Methyl Ether	73	7.795	7.795	(0.991)	199624	100.000	10.29
	49 1,2-Dichloroethane	62	7.431	7.431	(0.945)	951565	100.000	99.30
	39 2,2-Dichloropropane	77	6.515	6.515	(0.828)	1111461	100.000	108.1
	50 1,1-Dichloropropene	75	7.451	7.451	(0.947)	1147429	100.000	102.2
	56 Trichloroethene	95	8.367	8.367	(1.064)	820482	100.000	99.04
	60 1,4-Dioxane	88	8.574	8.574	(1.090)	112174	2000.00	1889
	57 1,2-Dichloropropane	63	8.416	8.416	(1.070)	917726	100.000	98.99
	58 Dibromomethane	93	8.524	8.524	(1.084)	473897	100.000	101.0
	59 Methyl methacrylate	41	7.500	7.500	(0.954)	955308	100.000	98.76
	61 Bromodichloromethane	83	8.593	8.593	(1.093)	1036281	100.000	104.0
	62 tert-Amyl Ethyl Ether	59	8.682	8.682	(1.104)	12690	100.000	0.6735(a)
	66 2-Chloroethyl vinyl ether	63	9.017	9.017	(1.147)	2819	200.000	136.2(T)
	70 cis-1,3-Dichloropropene	75	9.165	9.165	(1.165)	1172669	100.000	102.8
	69 4-Methyl-2-pentanone	43	9.086	9.086	(1.155)	1409601	200.000	194.1
$	71 Toluene-d8	98	9.568	9.568	(0.870)	689918	30.0000	32.62
	74 Toluene	92	9.647	9.647	(0.877)	1613002	100.000	105.7
	73 trans-1,3-Dichloropropene	75	9.637	9.637	(0.876)	966217	100.000	104.9
	76 Ethyl methacrylate	69	9.834	9.834	(0.894)	876885	100.000	112.7

Data File: \\ELABNSH05\TARGET\chem\voa5.i\092711V5.b\0927CCV1.D
Report Date: 27-Sep-2011 07:42

	Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	AMOUNTS CAL-AMT (ug/Kg)	AMOUNTS ON-COL (ug/Kg)
	75 1,1,2-Trichloroethane	83	9.795	9.795	(0.891)	525089	100.000	107.7
	80 Tetrachloroethene	166	10.376	10.376	(0.944)	613845	100.000	111.8
	77 2-Hexanone	43	9.943	9.943	(0.904)	994252	200.000	203.1
	79 Dibromochloromethane	129	10.268	10.268	(0.934)	601149	100.000	109.4
	81 1,2-Dibromoethane	107	10.485	10.485	(0.953)	564782	100.000	108.2
	63 Methyl cyclohexane	83	8.741	8.741	(1.111)	1313734	100.000	105.2
*	82 Chlorobenzene-d5	82	10.997	10.997	(1.000)	321840	30.0000	
	84 Chlorobenzene	112	11.036	11.036	(1.004)	1586745	100.000	106.4
	85 1,1,1,2-Tetrachloroethane	131	11.076	11.076	(1.007)	525728	100.000	109.6
	83 1-Chlorohexane	91	11.007	11.007	(1.001)	980187	100.000	104.2(A)
	86 Ethylbenzene	91	11.184	11.184	(1.017)	2983258	100.000	106.7
	87 m,p-Xylene	91	11.302	11.302	(1.028)	4036435	200.000	208.8
M	119 Xylene(total)	91				6230200	300.000	318.5
	89 o-Xylene	91	11.696	11.696	(1.064)	2193764	100.000	109.7
	88 Styrene	104	11.657	11.657	(1.060)	1691650	100.000	110.3
	90 Bromoform	173	11.765	11.765	(1.070)	366089	100.000	114.2
	91 cis-1,4-Dichloro-2-butene	53	11.844	11.844	(0.884)	171931	100.000	103.8
	94 Isopropylbenzene	105	12.090	12.090	(1.099)	2444164	100.000	112.5
$	97 Bromofluorobenzene	95	12.199	12.199	(1.109)	306382	30.0000	34.33
	93 1,1,2,2-Tetrachloroethane	83	12.011	12.011	(0.896)	712291	100.000	108.8
	78 1,3-Dichloropropane	76	10.012	10.012	(0.910)	1028793	100.000	108.2
	95 1,2,3-Trichloropropane	110	12.139	12.139	(1.104)	159837	100.000	111.4
	96 trans-1,4-Dichloro-2-butene	53	12.159	12.159	(0.907)	184167	100.000	104.7
	99 n-Propylbenzene	91	12.494	12.494	(0.932)	3241994	100.000	106.4
	102 1,3,5-Trimethylbenzene	105	12.671	12.671	(0.946)	1851732	100.000	106.7
	106 1,2,4-Trimethylbenzene	105	13.046	13.046	(0.974)	1726979	100.000	107.5
	107 sec-Butylbenzene	105	13.252	13.252	(0.989)	2622558	100.000	110.0
	105 tert-Butylbenzene	119	13.016	13.016	(0.971)	1701130	100.000	110.9
	108 1,3-Dichlorobenzene	146	13.341	13.341	(0.996)	965063	100.000	102.3
*	110 1,4-Dichlorobenzene-d4	152	13.400	13.400	(1.000)	227974	30.0000	
	111 1,4-Dichlorobenzene	146	13.430	13.430	(1.002)	916874	100.000	102.4
	113 n-Butylbenzene	91	13.784	13.784	(1.029)	1913907	100.000	113.5
	112 1,2-Dichlorobenzene	146	13.745	13.745	(1.026)	882162	100.000	102.3
	117 1,2-Dibromo-3-chloropropane	157	14.385	14.385	(1.074)	89164	100.000	105.1
	118 1,3,5-Trichlorobenzene	180	14.917	14.917	(1.113)	556366	100.000	107.2
	98 Bromobenzene	156	12.356	12.356	(0.922)	592215	100.000	102.1
	100 2-Chlorotoluene	91	12.583	12.583	(0.939)	1939675	100.000	102.2
	101 4-Chlorotoluene	91	12.642	12.642	(0.943)	2108698	100.000	104.7
	120 1,2,4-Trichlorobenzene	180	15.469	15.469	(1.154)	428992	100.000	97.74
	121 Naphthalene	128	15.617	15.617	(1.165)	606633	100.000	89.59
	109 p-Isopropyltoluene	119	13.390	13.390	(0.999)	1747279	100.000	112.1
	122 Hexachlorobutadiene	225	15.754	15.754	(1.176)	352286	100.000	103.3
	123 1,2,3-Trichlorobenzene	180	15.902	15.902	(1.187)	370819	100.000	92.97

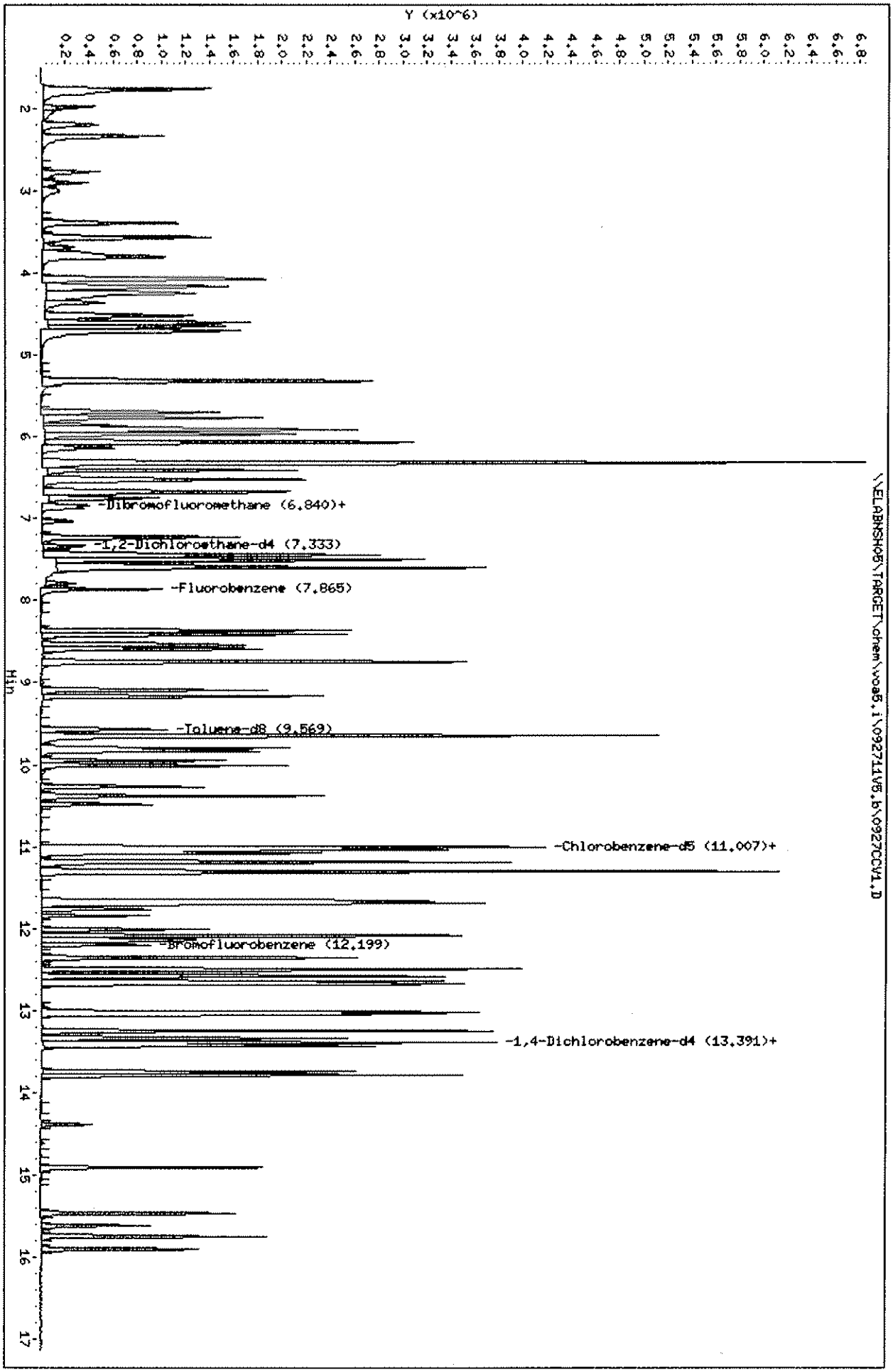
Data File: \\ELABNSH05\TARGET\chem\voa5.i\092711V5.b\0927CCV1.D
Report Date: 27-Sep-2011 07:42

QC Flag Legend

T - Target compound detected outside RT window.
a - Target compound detected but, quantitated amount
    Below Limit Of Quantitation(BLOQ).
A - Target compound detected but, quantitated amount
    exceeded maximum amount.

Data File: \ELABNSHOS\TARGET\chem\voa5.i\092711V5.b\0927CCV1.D
Date : 27-SEP-2011 07:11
Client ID: SEQ-CCV1
Sample Info: SEQ-CCV1;;;;
Column phase: RTX-VRX

Instrument: voa5.i
Operator: ADM
Column diameter: 0.25



Data File: \\ELABNSH05\TARGET\chem\voa5.i\092711V5.b\0927LCS1.D
Report Date: 27-Sep-2011 09:35

Laboratory Name

Data file : \\ELABNSH05\TARGET\chem\voa5.i\092711V5.b\0927LCS1.D
Lab Smp Id: 1I27005-BS1 Client Smp ID: 1I27005-BS1
Inj Date : 27-SEP-2011 07:49 MS Autotune Date: 28-JUL-1998 05:19
Operator : ADM Inst ID: voa5.i
Smp Info : 1I27005-BS1;;;;;
Misc Info : ;3;LCS;;;8260.sub;
Comment :
Method : \\ELABNSH05\TARGET\chem\voa5.i\092711V5.b\VS5SUR.m
Meth Date : 27-Sep-2011 09:31 amonteiro Quant Type: ISTD
Cal Date : 22-SEP-2011 14:24 Cal File: 0922CAL1.D
Als bottle: 2 QC Sample: LCS
Dil Factor: 1.00000
Integrator: HP RTE Compound Sublist: 8260.sub
Target Version: 4.04
Processing Host: TARGET02_VM

Concentration Formula: Amt * DF * 5*Uf/(Ws*(Solids/100))

Name	Value	Description
DF	1.000	Dilution Factor
Uf	1.000	unit correction factor
Ws	5.000	Weight of sample extracted (g)
Solids	100.000	Percent Solids

UMA | 07111

9.29.11

Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS ON-COLUMN (ug/Kg)	FINAL (ug/Kg)
* 55 Fluorobenzene	96	7.860	7.864	(1.000)	831012	30.0000	
1 Dichlorodifluoromethane	85	1.980	1.974	(0.252)	332803	48.3638	48.36
2 Chloromethane	50	2.197	2.191	(0.279)	401550	46.6577	46.66
3 Vinyl chloride	62	2.334	2.338	(0.297)	258104	55.8512	55.85
4 Bromomethane	94	2.768	2.772	(0.352)	213695	64.6823	64.68
5 Chloroethane	64	2.896	2.900	(0.368)	222363	47.6733	47.67
7 Trichlorofluoromethane	101	3.388	3.392	(0.431)	582786	51.0974	51.10
11 Ethyl Ether	59	3.802	3.806	(0.484)	320356	47.3970	47.40
10 Acetonitrile	41	3.763	3.767	(0.479)	510813	427.584	427.6
13 Trichlorotrifluoroethane	101	4.236	4.240	(0.539)	363667	44.2982	44.30
8 Acrolein	56	3.566	3.570	(0.454)	277933	278.022	278.0
19 Allyl chloride	76	4.600	4.604	(0.585)	225365	52.1769	52.18
12 1,1-Dichloroethene	96	4.167	4.161	(0.530)	351694	46.9477	46.95
9 Acetone	43	3.684	3.688	(0.469)	199914	77.9162	77.92
14 t-Butyl alcohol	59	4.295	4.299	(0.546)	247727	364.471	364.5

Data File: \\ELABNSH05\TARGET\chem\voa5.i\092711V5.b\0927LCS1.D
Report Date: 27-Sep-2011 09:35

	Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS ON-COLUMN (ug/Kg)	CONCENTRATIONS FINAL (ug/Kg)
	16 Iodomethane	142	4.354	4.358	(0.554)	389349	69.2137	69.21
	22 Carbon disulfide	76	4.698	4.702	(0.598)	1194675	40.4508	40.45
	20 Methylene chloride	84	4.639	4.643	(0.590)	439561	45.4669	45.47
	18 Acrylonitrile	53	4.511	4.515	(0.574)	571535	228.396	228.4
	24 trans-1,2-Dichloroethene	96	5.319	5.323	(0.677)	392020	49.1860	49.18
	23 MTBE	73	5.309	5.313	(0.675)	588553	32.0664	32.07
	26 1,1-Dichloroethane	63	5.693	5.697	(0.724)	809700	47.3793	47.38
	28 Propionitrile	54	5.851	5.855	(0.744)	440040	487.442	487.4
	27 Vinyl acetate	43	5.762	5.766	(0.733)	1493267	109.448	109.4
	30 Chloroprene	53	5.959	5.963	(0.758)	665223	48.7351	48.74
	33 Di-isopropyl ether	45	6.058	6.062	(0.771)	1706525	46.2034	46.20
	37 cis-1,2-Dichloroethene	96	6.403	6.407	(0.815)	417810	49.6286	49.63
M	6 1,2-Dichloroethene(total)	96				809830	98.8146	98.81
	34 2-Butanone	43	6.137	6.141	(0.781)	400813	88.7809	88.78
	36 Methacrylonitrile	41	6.304	6.318	(0.802)	2192958	474.563	474.6
	29 Hexane	57	5.910	5.904	(0.752)	751902	51.6972	51.70
	42 Bromochloromethane	128	6.688	6.692	(0.851)	162650	47.5234	47.52
	43 Isobutyl alcohol	42	6.747	6.751	(0.858)	202971	991.935	991.9
	45 Tetrahydrofuran	42	6.866	6.870	(0.873)	112332	46.7375	46.74
	46 tert-Amyl alcohol	59	7.033	7.037	(0.895)	81855	151.581	151.6
	41 Chloroform	83	6.659	6.663	(0.847)	700481	48.2309	48.23
	17 Methyl acetate	43	4.501	4.505	(0.573)	288266	45.5956	45.60
$	44 Dibromofluoromethane	111	6.836	6.840	(0.870)	224816	31.5894	31.59
	47 1,1,1-Trichloroethane	97	7.230	7.224	(0.920)	528941	50.8883	50.89
	40 ETBE	59	6.531	6.535	(0.831)	326960	12.8429	12.84(R)
	51 Cyclohexane	56	7.496	7.500	(0.954)	705165	43.8339	43.83
	52 Carbon tetrachloride	117	7.565	7.569	(0.962)	411227	51.9996	52.00
$	48 1,2-Dichloroethane-d4	102	7.338	7.332	(0.934)	41725	28.5350	28.54
	53 Benzene	78	7.604	7.598	(0.967)	1550314	48.4685	48.47
	54 tert-Amyl Methyl Ether	73	7.791	7.795	(0.991)	76396	3.73328	3.733(R)
	49 1,2-Dichloroethane	62	7.427	7.431	(0.945)	466620	46.1725	46.17
	39 2,2-Dichloropropane	77	6.511	6.515	(0.828)	545990	50.3729	50.37
	50 1,1-Dichloropropene	75	7.447	7.451	(0.947)	579254	48.9324	48.93
	56 Trichloroethene	95	8.363	8.367	(1.064)	408512	46.7619	46.76
	60 1,4-Dioxane	88	8.570	8.574	(1.090)	59275	946.778	946.8
	57 1,2-Dichloropropane	63	8.412	8.416	(1.070)	455996	46.6402	46.64
	58 Dibromomethane	93	8.520	8.524	(1.084)	224787	45.4081	45.41
	59 Methyl methacrylate	41	7.496	7.500	(0.954)	431573	42.3077	42.31
	61 Bromodichloromethane	83	8.589	8.593	(1.093)	489149	46.5419	46.54
	66 2-Chloroethyl vinyl ether	63	9.092	9.017	(1.157)	822	37.6543	37.65(Q)
	70 cis-1,3-Dichloropropene	75	9.161	9.165	(1.165)	602589	50.0873	50.09
	69 4-Methyl-2-pentanone	43	9.092	9.086	(1.157)	783043	102.233	102.2
$	71 Toluene-d8	98	9.564	9.568	(0.869)	718101	31.1669	31.17
	74 Toluene	92	9.643	9.647	(0.876)	841739	50.6248	50.62
	73 trans-1,3-Dichloropropene	75	9.643	9.637	(0.876)	444801	44.3339	44.33
	76 Ethyl methacrylate	69	9.830	9.834	(0.893)	460669	54.3488	54.35
	75 1,1,2-Trichloroethane	83	9.791	9.795	(0.890)	261008	49.1525	49.15

Data File: \\ELABNSH05\TARGET\chem\voa5.i\092711V5.b\0927LCS1.D
Report Date: 27-Sep-2011 09:35

Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS ON-COLUMN (ug/Kg)	FINAL (ug/Kg)
80 Tetrachloroethene	166	10.382	10.376	(0.944)	308236	51.5481	51.55
77 2-Hexanone	43	9.939	9.943	(0.903)	577168	108.231	108.2
79 Dibromochloromethane	129	10.264	10.268	(0.933)	287371	47.9916	47.99
81 1,2-Dibromoethane	107	10.481	10.485	(0.953)	283935	49.9384	49.94
63 Methyl cyclohexane	83	8.747	8.741	(1.113)	623390	47.3315	47.33
* 82 Chlorobenzene-d5	82	11.003	10.997	(1.000)	350634	30.0000	
84 Chlorobenzene	112	11.042	11.036	(1.004)	804556	49.5153	49.52
85 1,1,1,2-Tetrachloroethane	131	11.081	11.076	(1.007)	266246	50.9474	50.95
83 1-Chlorohexane	91	11.003	11.007	(1.000)	510821	49.8664	49.87
86 Ethylbenzene	91	11.190	11.184	(1.017)	1556382	51.1094	51.11
87 m,p-Xylene	91	11.298	11.302	(1.027)	2193544	104.145	104.1
M 119 Xylene(total)	91				3323350	156.007	156.0
89 o-Xylene	91	11.692	11.696	(1.063)	1129806	51.8615	51.86
88 Styrene	104	11.663	11.657	(1.060)	856025	51.2457	51.24
90 Bromoform	173	11.761	11.765	(1.069)	182257	52.1986	52.20
91 cis-1,4-Dichloro-2-butene	53	11.840	11.844	(0.884)	91876	50.5599	50.56
94 Isopropylbenzene	105	12.086	12.090	(1.098)	1207375	50.9945	50.99
$ 97 Bromofluorobenzene	95	12.194	12.199	(1.108)	314555	32.3496	32.35
93 1,1,2,2-Tetrachloroethane	83	12.007	12.011	(0.896)	351451	48.9296	48.93
78 1,3-Dichloropropane	76	10.008	10.012	(0.910)	517164	49.9379	49.94
95 1,2,3-Trichloropropane	110	12.135	12.139	(1.103)	77506	49.5643	49.56(Q)
96 trans-1,4-Dichloro-2-butene	53	12.155	12.159	(0.907)	91174	47.2555	47.26(Q)
99 n-Propylbenzene	91	12.500	12.494	(0.933)	1687601	50.4644	50.46
102 1,3,5-Trimethylbenzene	105	12.677	12.671	(0.946)	988996	51.9272	51.93
106 1,2,4-Trimethylbenzene	105	13.042	13.046	(0.974)	888535	50.4089	50.41
107 sec-Butylbenzene	105	13.248	13.252	(0.989)	1406715	53.7627	53.76
105 tert-Butylbenzene	119	13.012	13.016	(0.971)	874934	51.9816	51.98
108 1,3-Dichlorobenzene	146	13.337	13.341	(0.996)	510705	49.3530	49.35
* 110 1,4-Dichlorobenzene-d4	152	13.396	13.400	(1.000)	250137	30.0000	(Q)
111 1,4-Dichlorobenzene	146	13.426	13.430	(1.002)	489045	49.7600	49.76
113 n-Butylbenzene	91	13.790	13.784	(1.029)	1006733	54.3997	54.40
112 1,2-Dichlorobenzene	146	13.751	13.745	(1.026)	464159	49.0395	49.04
117 1,2-Dibromo-3-chloropropane	157	14.391	14.385	(1.074)	43978	47.2420	47.24
118 1,3,5-Trichlorobenzene	180	14.913	14.917	(1.113)	299134	52.5130	52.51
98 Bromobenzene	156	12.362	12.356	(0.923)	295783	46.4740	46.47
100 2-Chlorotoluene	91	12.579	12.583	(0.939)	1011646	48.5624	48.56
101 4-Chlorotoluene	91	12.638	12.642	(0.943)	1068475	48.3503	48.35
120 1,2,4-Trichlorobenzene	180	15.465	15.469	(1.154)	231359	48.0422	48.04
121 Naphthalene	128	15.622	15.617	(1.166)	370963	49.4696	49.47
109 p-Isopropyltoluene	119	13.386	13.390	(0.999)	871076	50.9543	50.95
122 Hexachlorobutadiene	225	15.750	15.754	(1.176)	173242	46.3051	46.30
123 1,2,3-Trichlorobenzene	180	15.908	15.902	(1.187)	195829	44.7484	44.75

QC Flag Legend

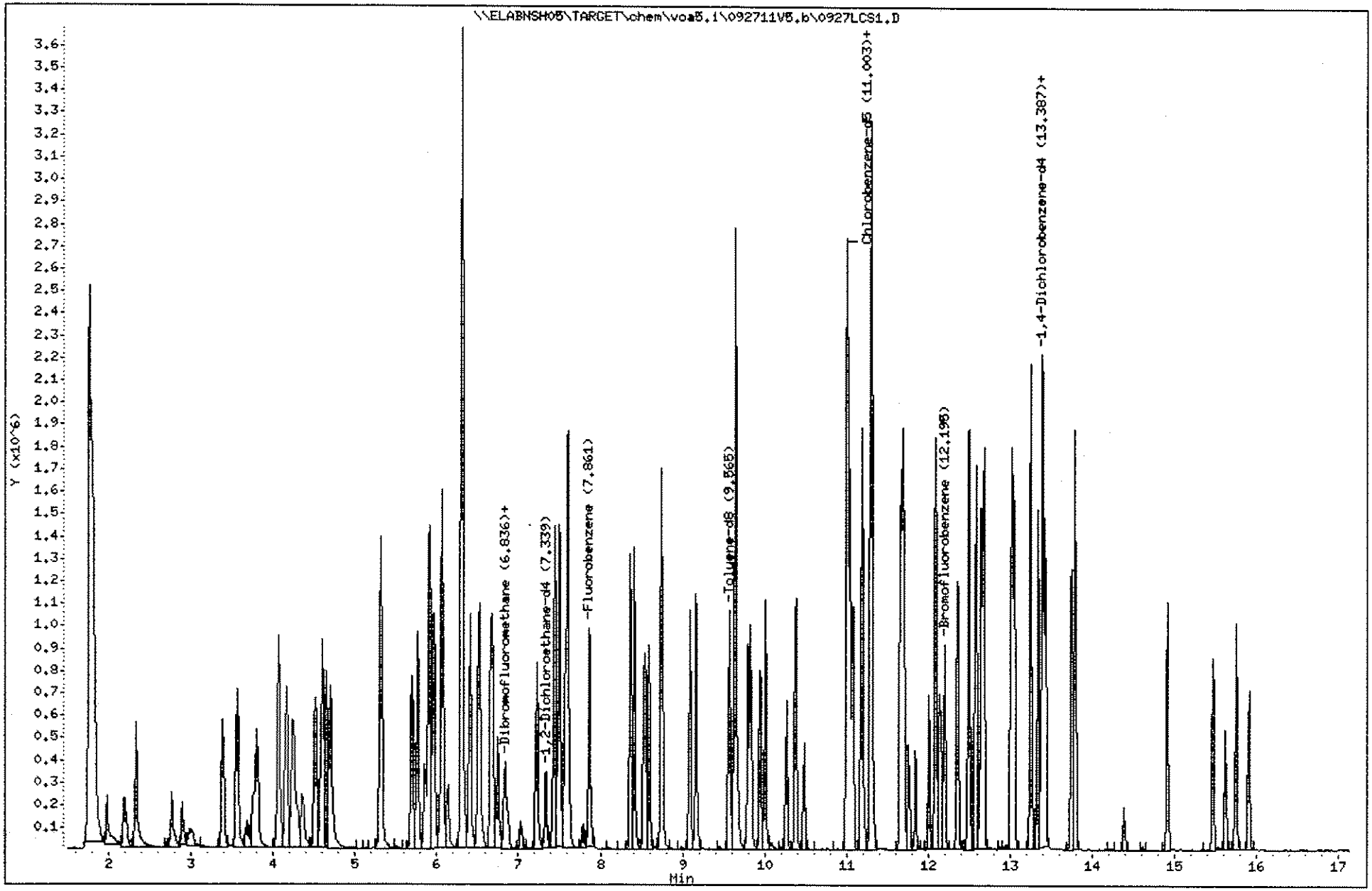
Q - Qualifier signal failed the ratio test.
R - Spike/Surrogate failed recovery limits.

Data File: \\ELABNSH05\TARGET\chem\voa5.i\092711V5.b\0927LCS1.D
Date : 27-SEP-2011 07:49
Client ID: 1I27005-BS1
Sample Info: 1I27005-BS1;;;;;

Column phase: RTX-VRX

Instrument: voa5.i

Operator: ADM
Column diameter: 0.25

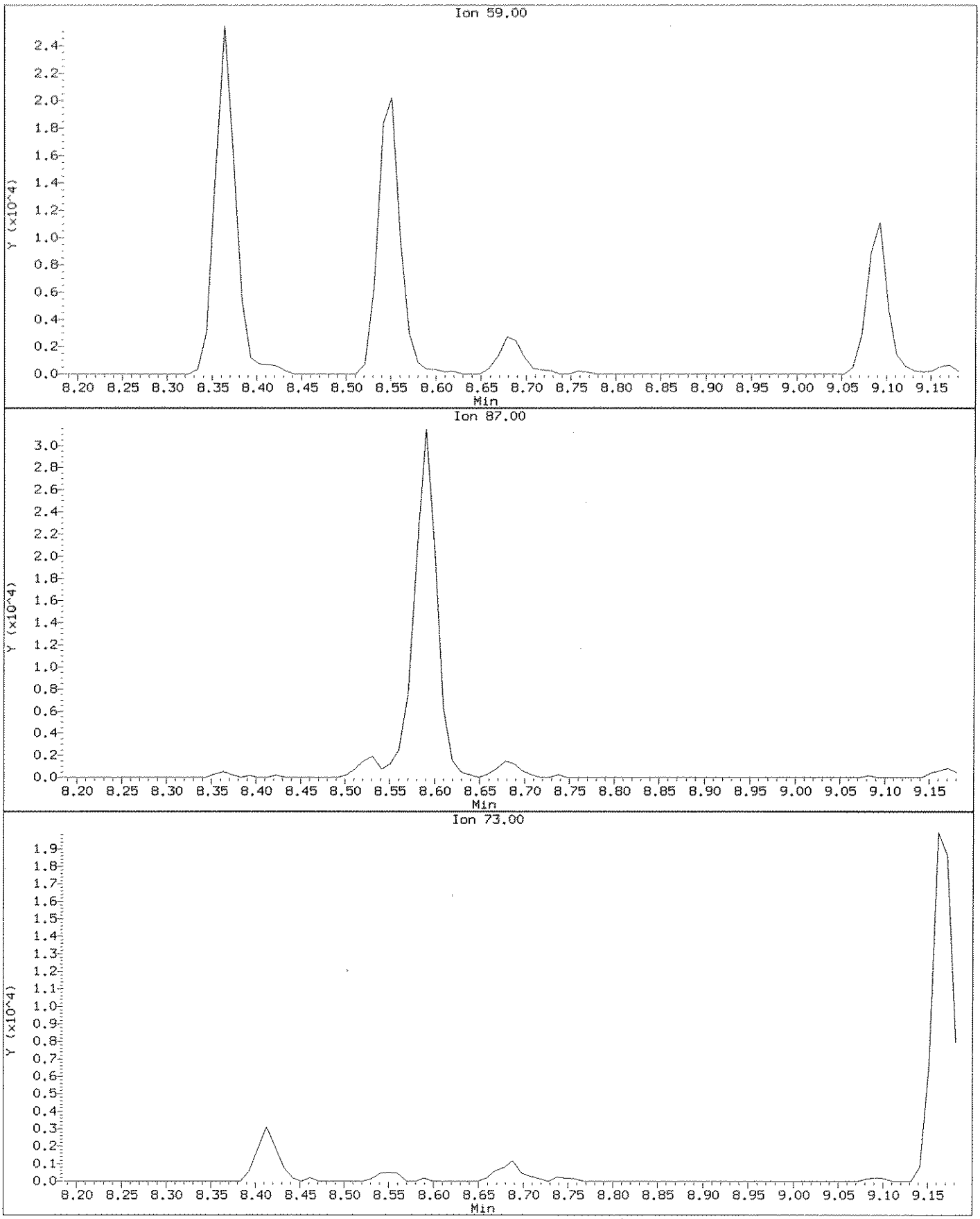


269

1109191

Data File: \\ELABNSHO5\TARGET\chem\voa5.i\092711V5.b\0927LCS1.D
Injection Date: 27-SEP-2011 07:49
Instrument: voa5.i
Client Sample ID: 1I27005-BS1

Compound: tert-Amyl Ethyl Ether
CAS Number: 919-94-8



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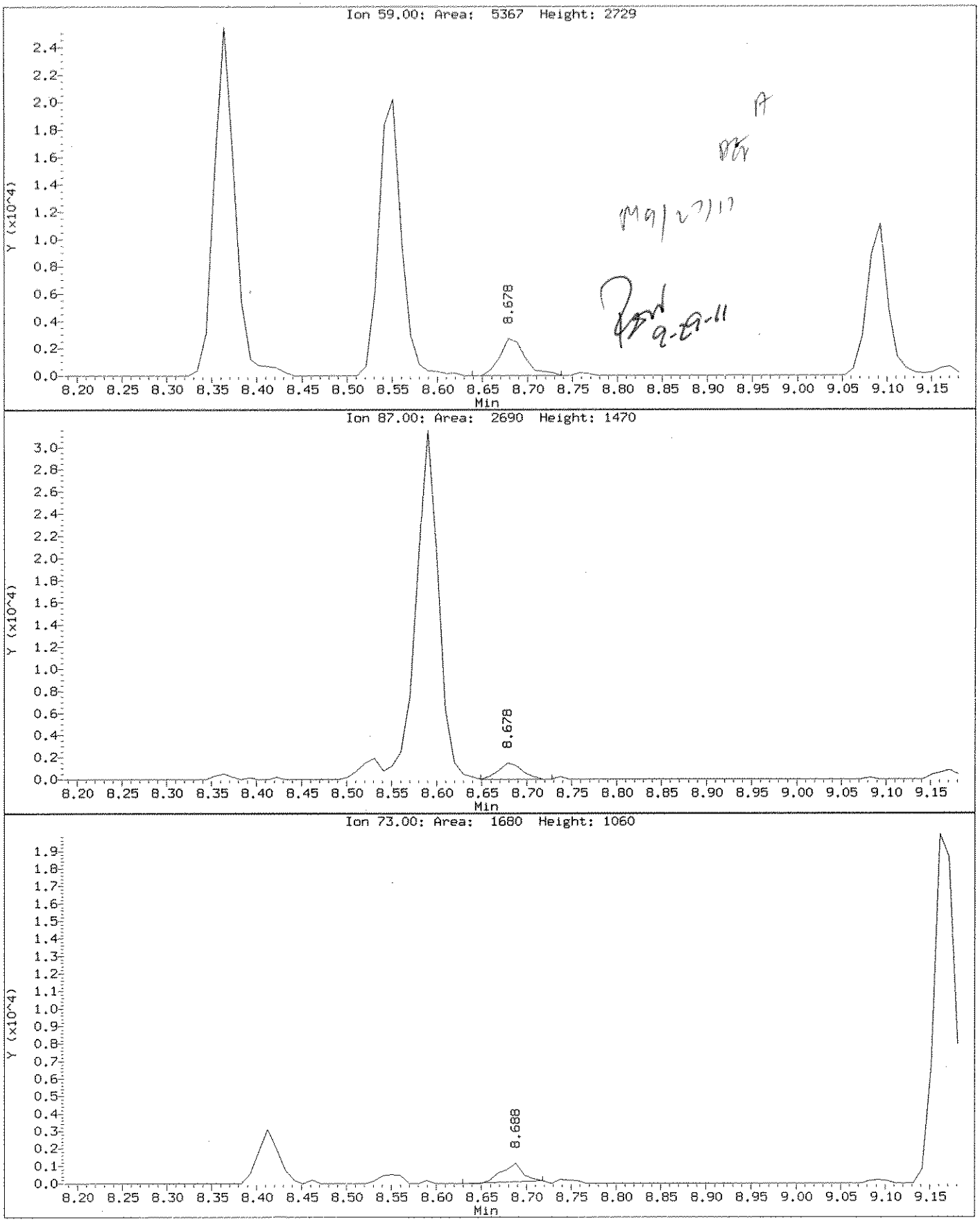
Injection Date: 27-SEP-2011 07:49
Instrument: voa5.i
Client Sample ID: 1I27005-BS1

Compound: tert-Amyl Ethyl Ether
CAS Number: 919-94-8



Data File: \\ELABNSH05\TARGET\chem\voa5.i\092711V5.b\0927BL1.D
Report Date: 27-Sep-2011 09:41

Laboratory Name

Data file : \\ELABNSH05\TARGET\chem\voa5.i\092711V5.b\0927BL1.D
Lab Smp Id: 1I27005-BLK1 Client Smp ID: 1I27005-BLK1
Inj Date : 27-SEP-2011 08:42 MS Autotune Date: 28-JUL-1998 05:19
Operator : ADM Inst ID: voa5.i
Smp Info : 1I27005-BLK1;;;;;
Misc Info : ;3;;;;8260.sub;
Comment :
Method : \\ELABNSH05\TARGET\chem\voa5.i\092711V5.b\VS5SUR.m
Meth Date : 27-Sep-2011 09:31 amonteiro Quant Type: ISTD
Cal Date : 22-SEP-2011 14:24 Cal File: 0922CAL1.D
Als bottle: 4 QC Sample: BLANK
Dil Factor: 1.00000
Integrator: HP RTE Compound Sublist: 8260.sub
Target Version: 4.04
Processing Host: TARGET02_VM

Concentration Formula: Amt * DF * 5*Uf/(Ws*(Solids/100))

Name	Value	Description
DF	1.000	Dilution Factor
Uf	1.000	unit correction factor
Ws	5.000	Weight of sample extracted (g)
Solids	100.000	Percent Solids

Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS ON-COLUMN (ug/Kg)	FINAL (ug/Kg)
* 55 Fluorobenzene	96	7.864	7.864	(1.000)	799556	30.0000	
29 Hexane	57	5.904	5.904	(0.751)	26435	1.88905	1.889
$ 44 Dibromofluoromethane	111	6.840	6.840	(0.870)	221383	32.3308	32.33
$ 48 1,2-Dichloroethane-d4	102	7.332	7.332	(0.932)	44353	31.5256	31.52
$ 71 Toluene-d8	98	9.568	9.568	(0.870)	693364	29.9537	29.95
77 2-Hexanone	43	9.943	9.943	(0.904)	15642	2.91960	2.920(a)
* 82 Chlorobenzene-d5	82	10.997	10.997	(1.000)	352268	30.0000	
$ 97 Bromofluorobenzene	95	12.198	12.199	(1.109)	305024	31.2239	31.22
* 110 1,4-Dichlorobenzene-d4	152	13.400	13.400	(1.000)	223564	30.0000	(Q)
120 1,2,4-Trichlorobenzene	180	15.469	15.469	(1.154)	1964	0.45630	0.4563(aQ)
121 Naphthalene	128	15.616	15.617	(1.165)	19229	1.88205	1.882
123 1,2,3-Trichlorobenzene	180	15.902	15.902	(1.187)	3242	0.82888	0.8289(a)

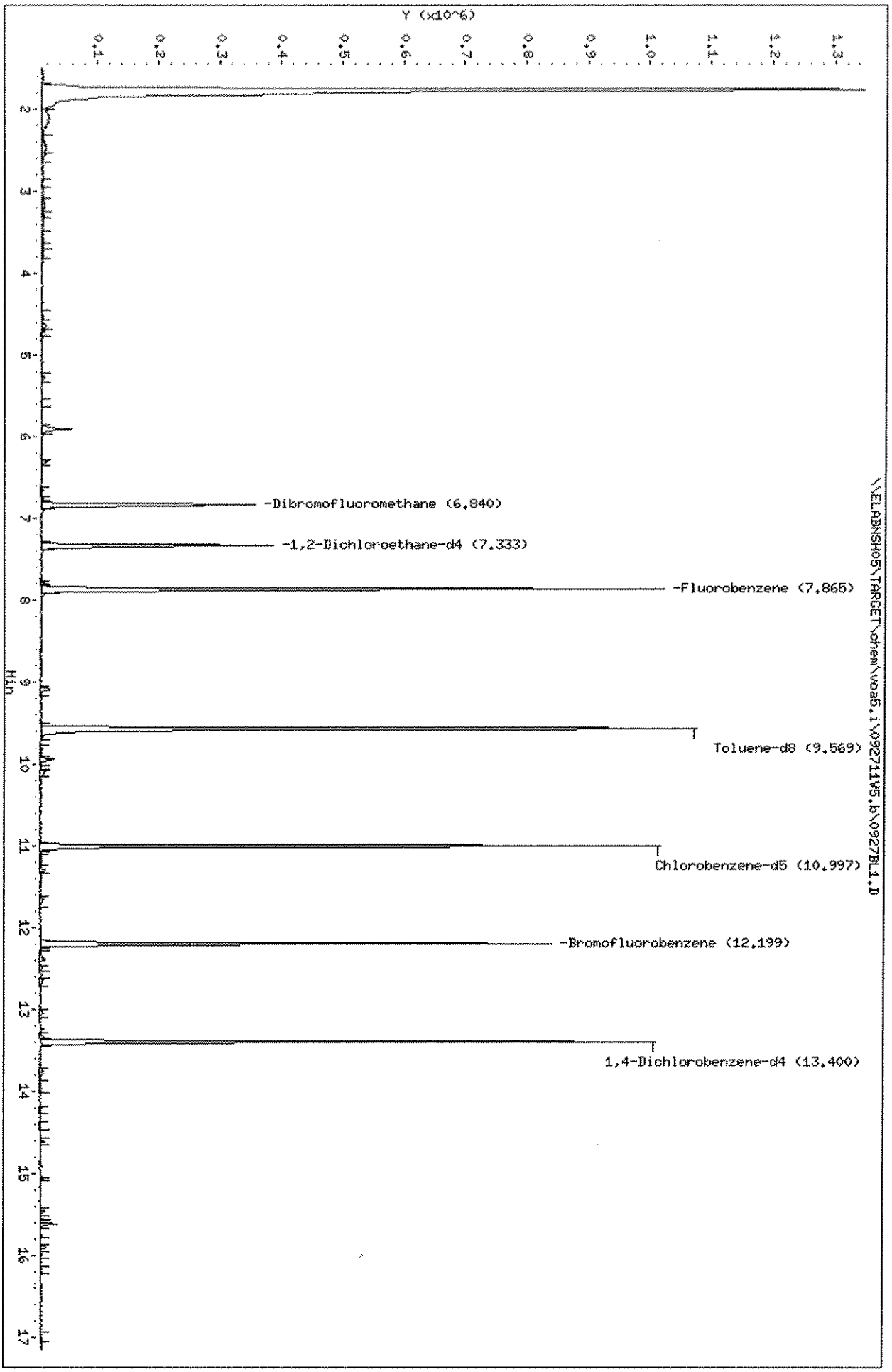
Data File: \\ELABNSH05\TARGET\chem\voa5.i\092711V5.b\0927BL1.D
Report Date: 27-Sep-2011 09:41

QC Flag Legend

a - Target compound detected but, quantitated amount
    Below Limit Of Quantitation(BLOQ).
Q - Qualifier signal failed the ratio test.

Data File: \\ELABNSH05\TARGET\chem\voa5.i\092711V5.b\0927BL1.D
Date : 27-SEP-2011 08:42
Client ID: 1I27005-BLK1
Sample Info: 1I27005-BLK1;;;;;
Column phase: RTX-VRX

Instrument: voa5.i
Operator: ADM
Column diameter: 0.25



Data File: \\ELABNSH05\TARGET\chem\voa5.i\092711V5.b\0927BL1.D

Date : 27-SEP-2011 08:42

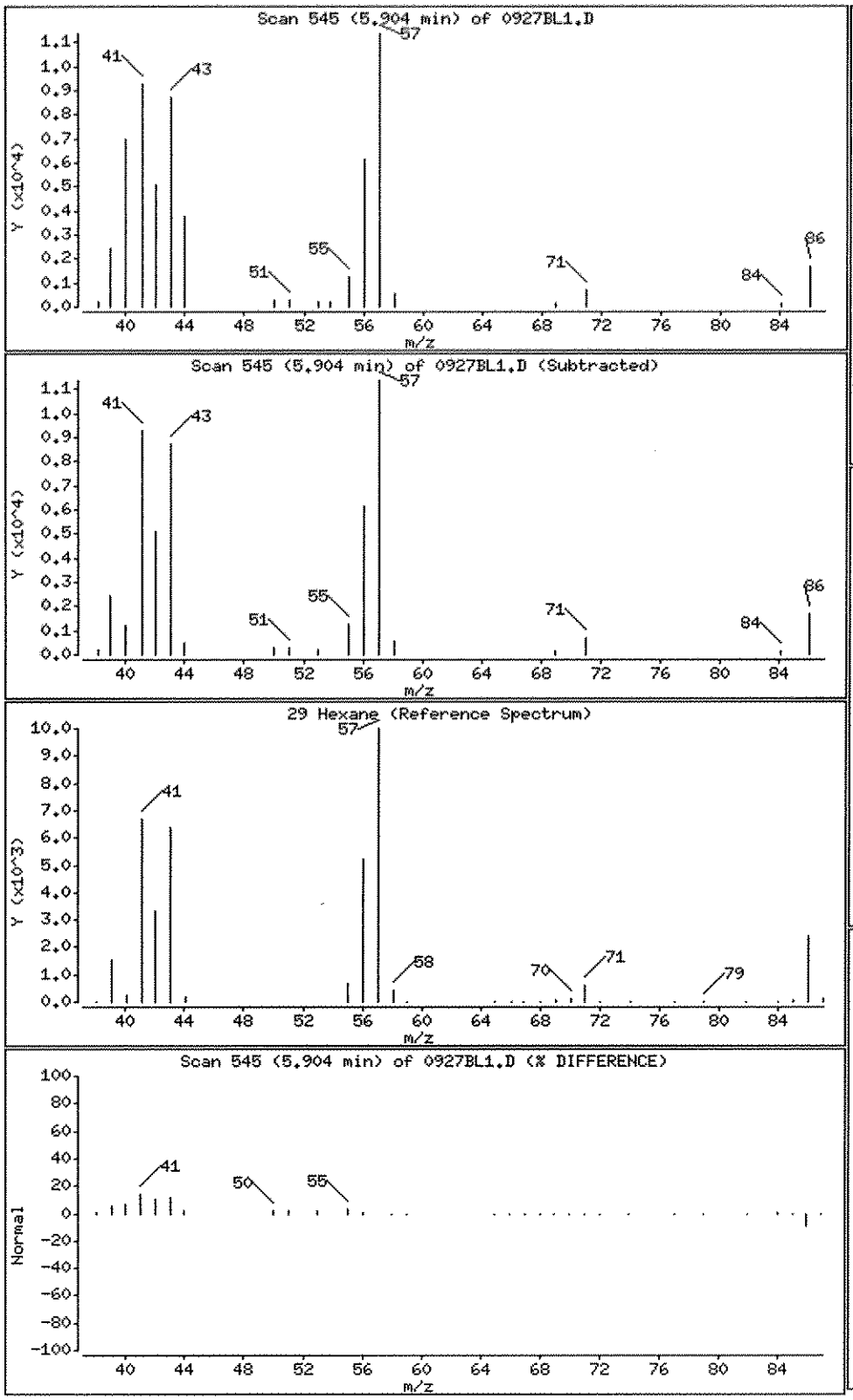
Client ID: 1I27005-BLK1 Instrument: voa5.i

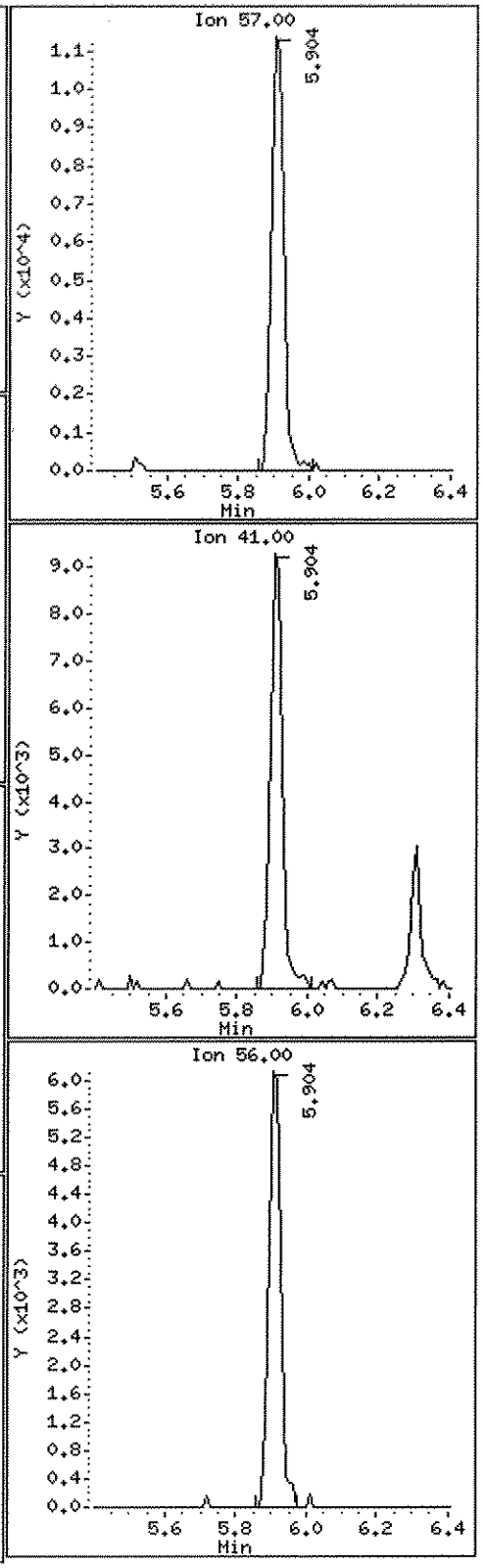
Sample Info: 1I27005-BLK1;;;;;

Operator: ADM

Column phase: RTX-VRX Column diameter: 0.25

29 Hexane Concentration: 1.889 ug/Kg





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Date : 27-SEP-2011 08:42

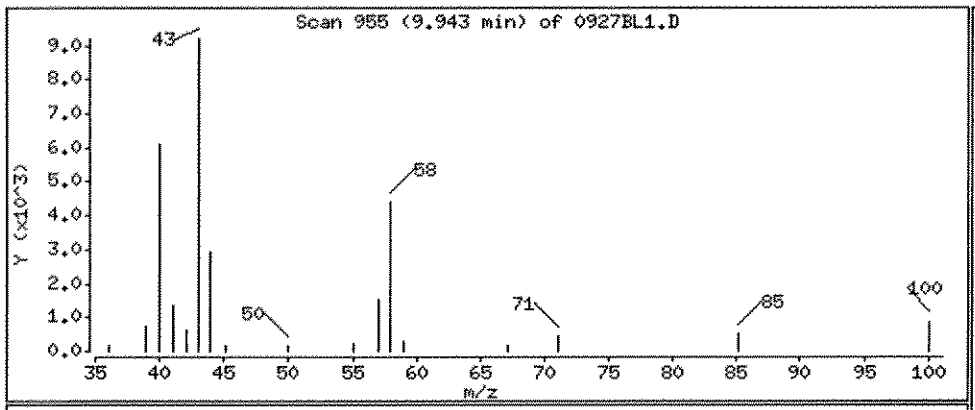
Client ID: 1I27005-BLK1 Instrument: voa5.i

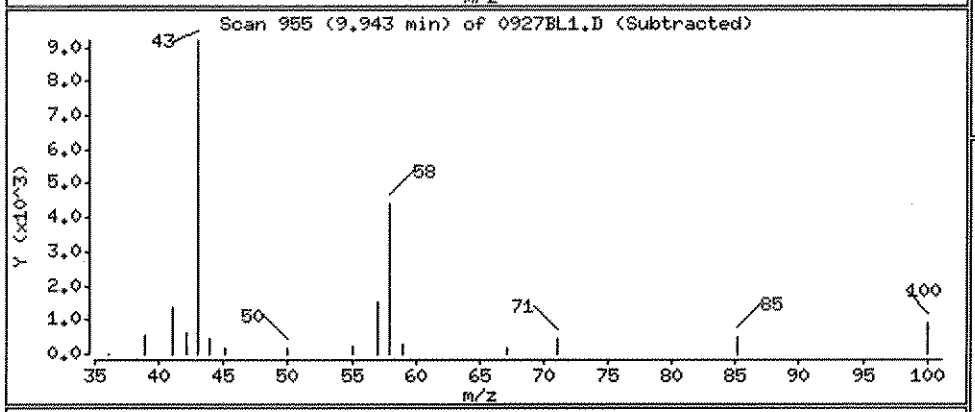
Sample Info: 1I27005-BLK1;;;;;

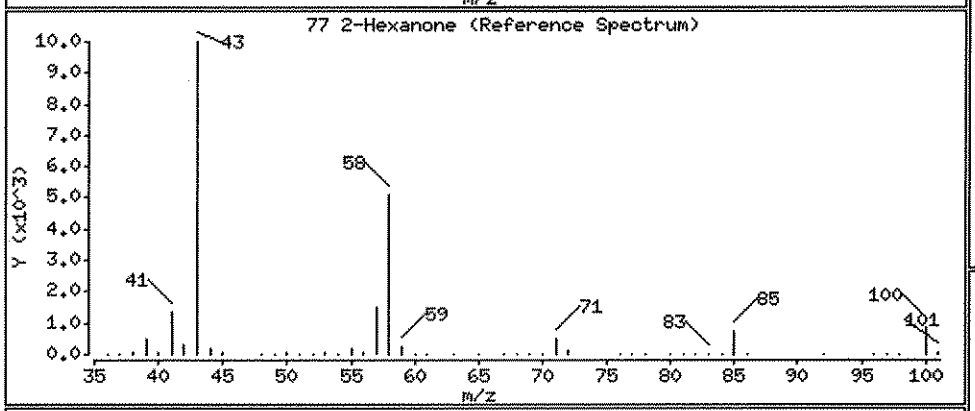
Operator: ADM

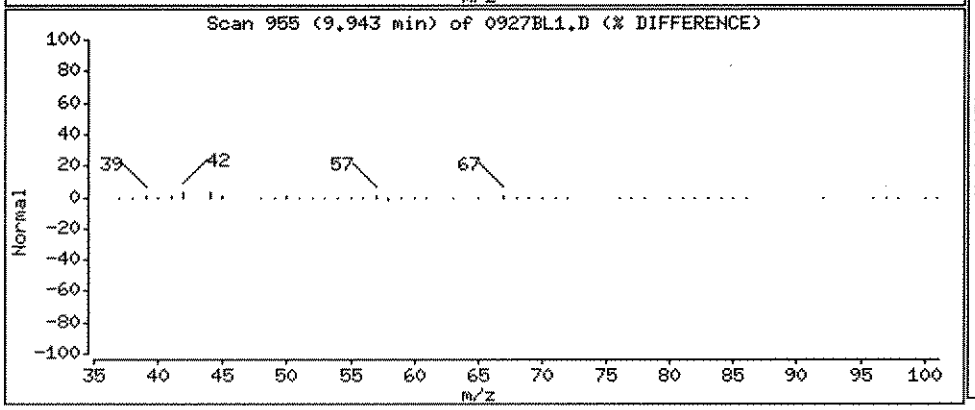
Column phase: RTX-VRX Column diameter: 0.25

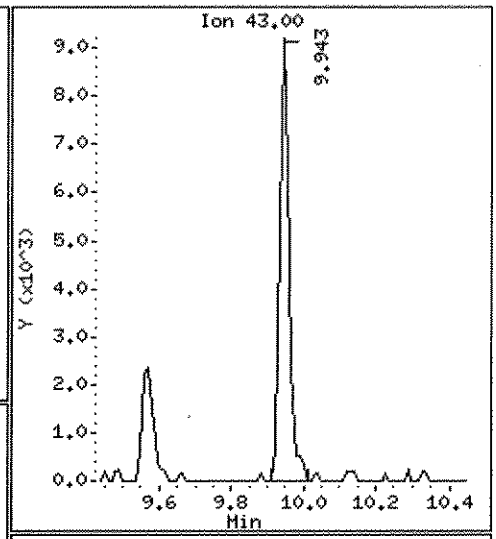
77 2-Hexanone Concentration: 2.920 ug/Kg

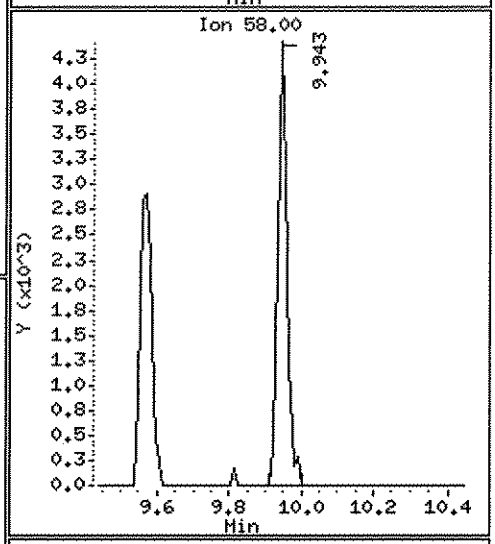


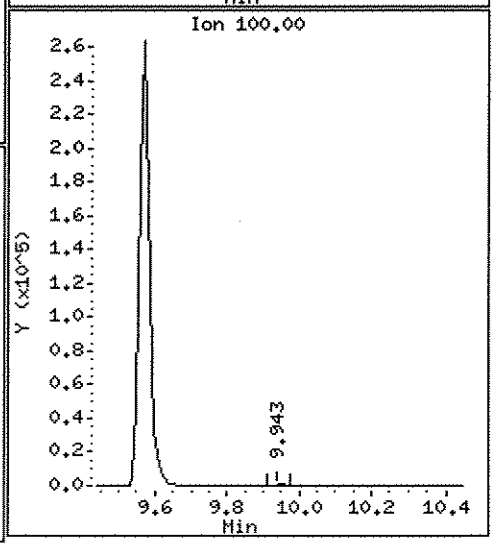












Data File: \\ELABNSH05\TARGET\chem\voa5.i\092711V5.b\0927BL1.D

Date : 27-SEP-2011 08:42

Client ID: 1I27005-BLK1

Instrument: voa5.i

Sample Info: 1I27005-BLK1;;;;;

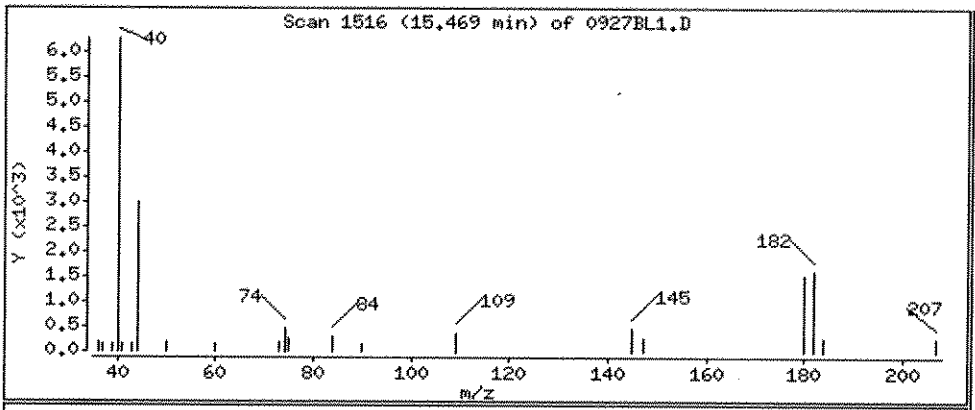
Operator: ADM

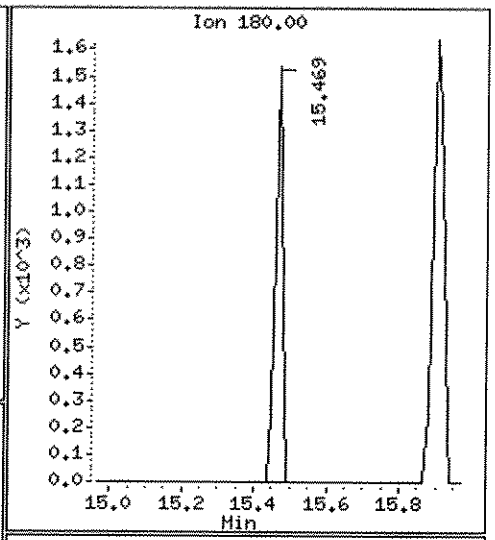
Column phase: RTX-VRX

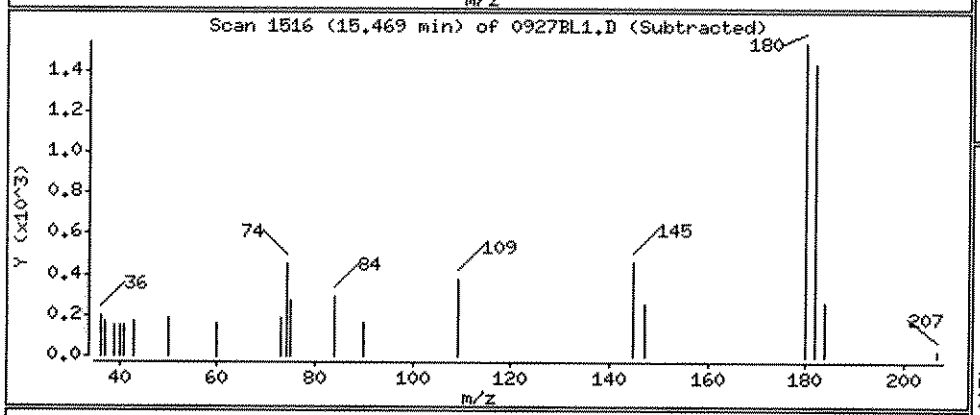
Column diameter: 0.25

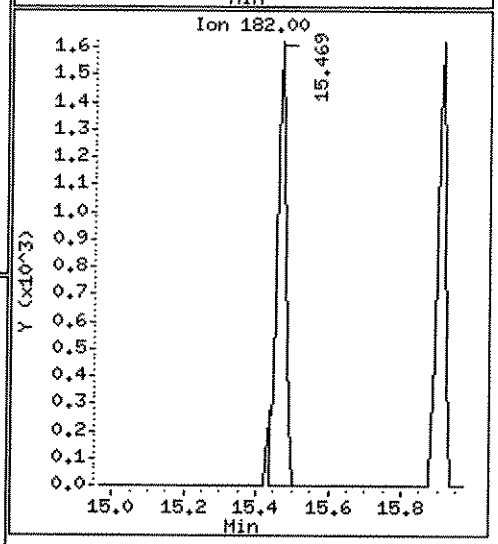
120 1,2,4-Trichlorobenzene

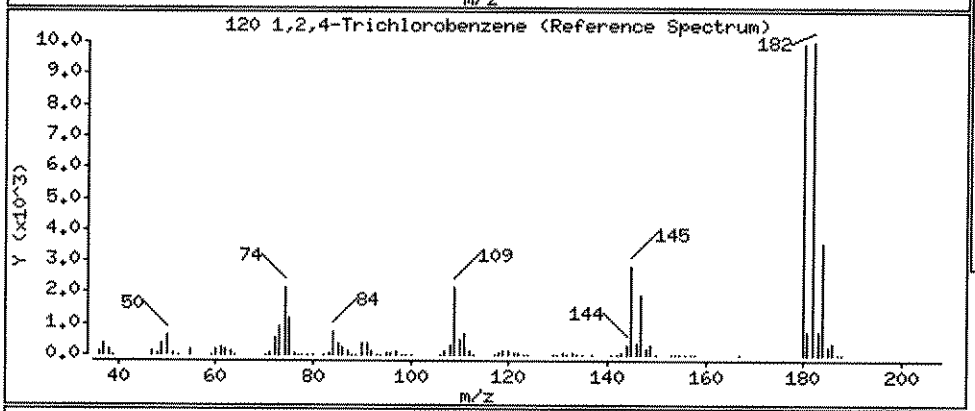
Concentration: 0.4563 ug/Kg

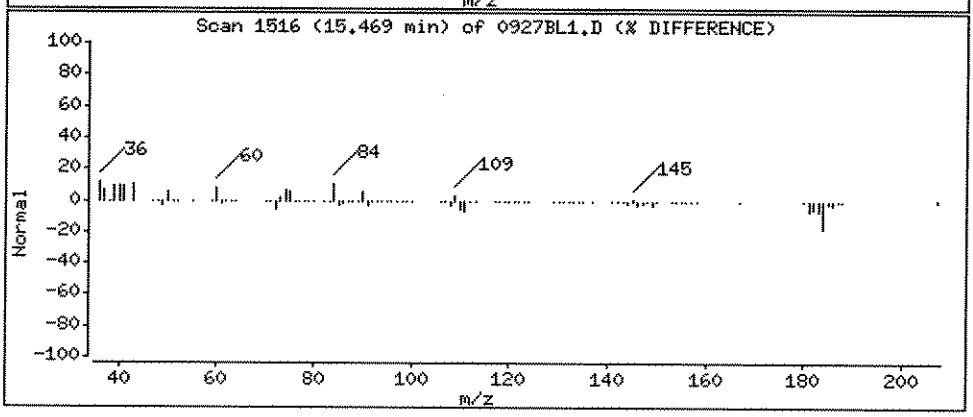












Data File: \\ELABNSH05\TARGET\chem\voa5.i\092711V5.b\0927BL1.D

Date : 27-SEP-2011 08:42

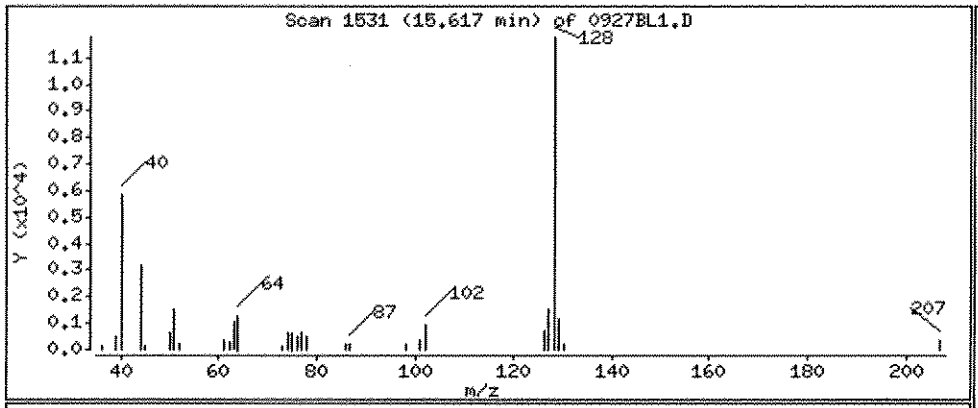
Client ID: 1I27005-BLK1 Instrument: voa5.i

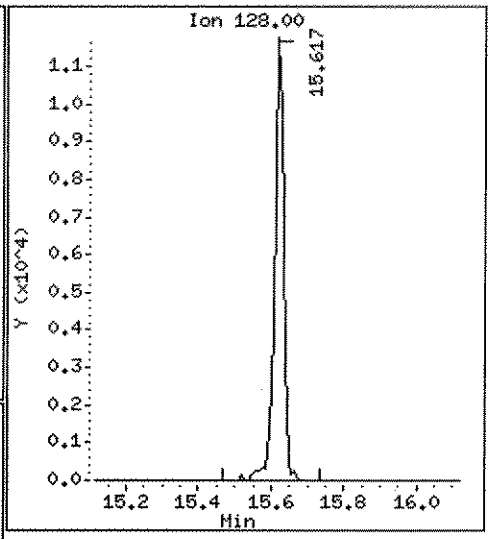
Sample Info: 1I27005-BLK1;;;;;

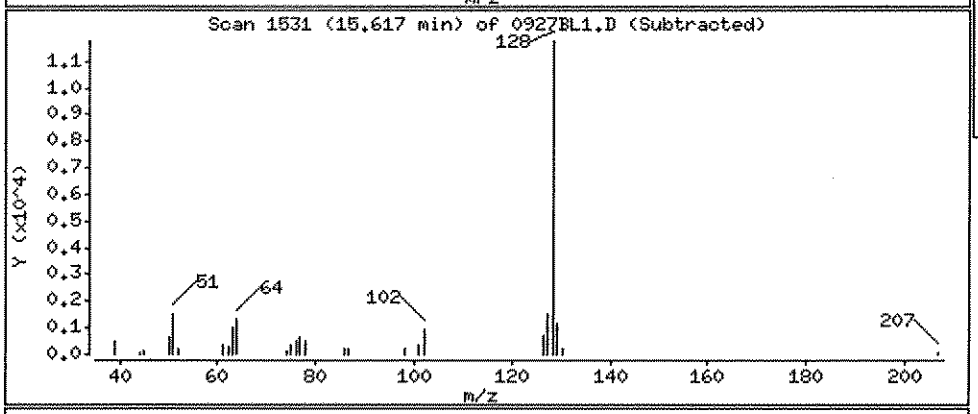
Operator: ADM

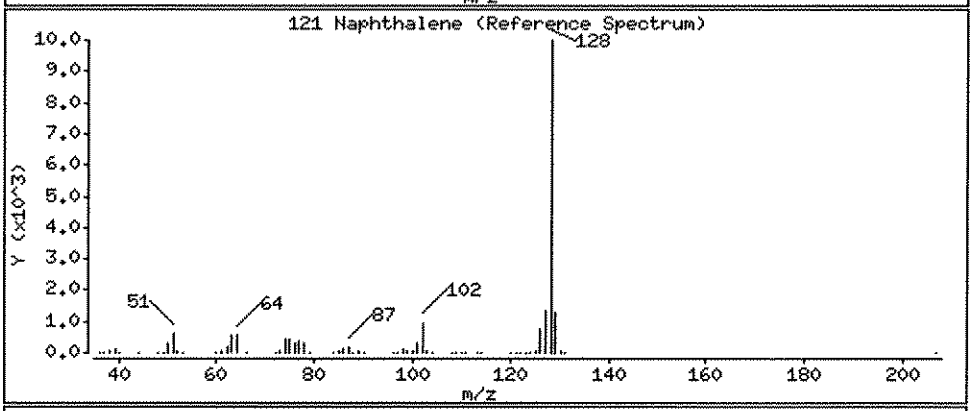
Column phase: RTX-VRX Column diameter: 0.25

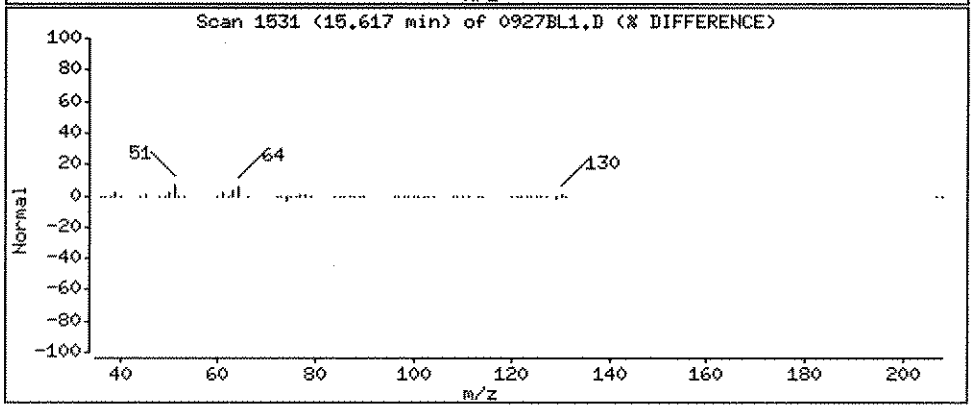
121 Naphthalene Concentration: 1.882 ug/Kg











Data File: \\ELABNSH05\TARGET\chem\voa5.i\092711V5.b\0927BL1.D

Date : 27-SEP-2011 08:42

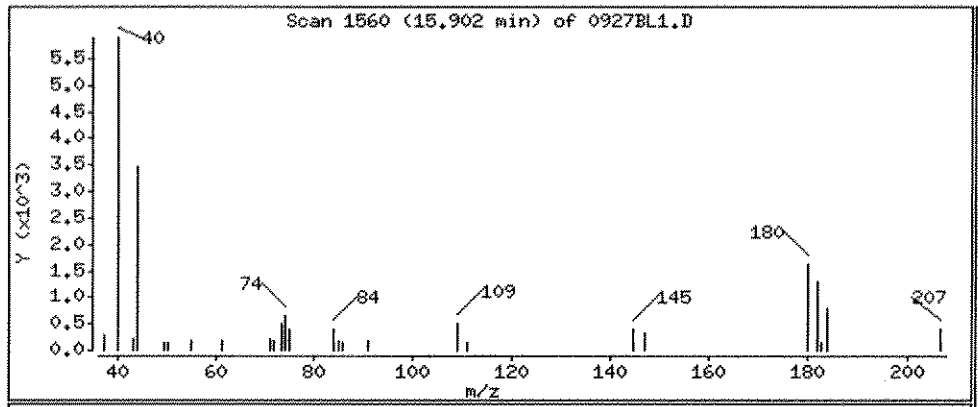
Client ID: 1I27005-BLK1 Instrument: voa5.i

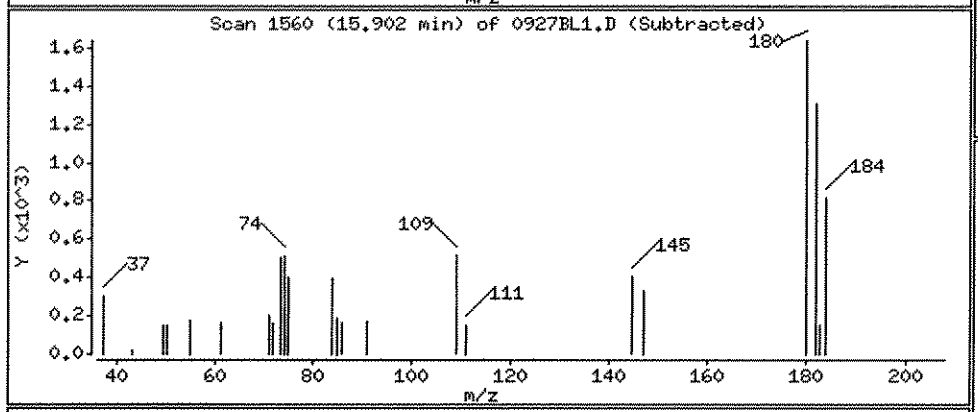
Sample Info: 1I27005-BLK1;;;;;

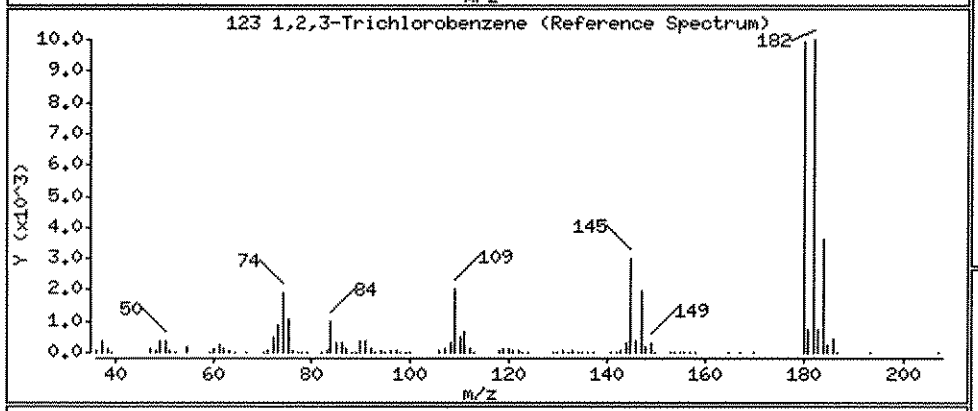
Operator: ADM

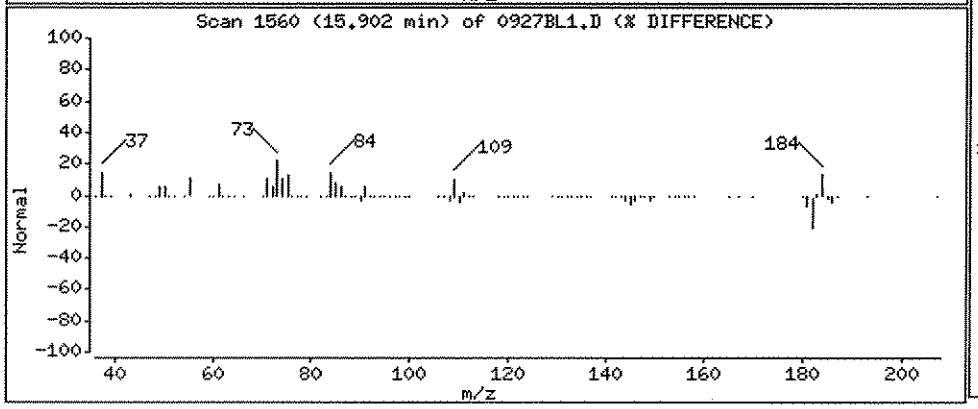
Column phase: RTX-VRX Column diameter: 0.25

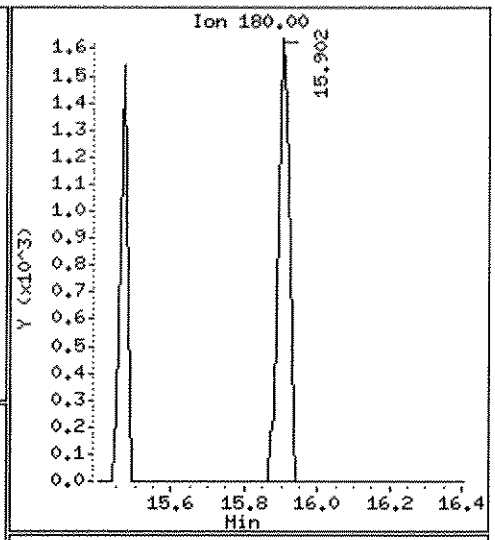
123 1,2,3-Trichlorobenzene Concentration: 0.8289 ug/Kg

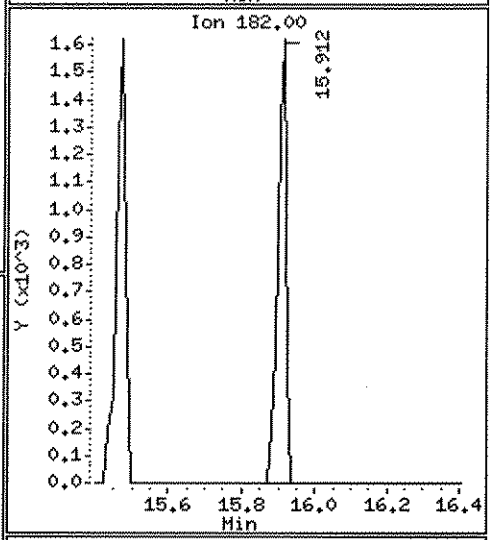


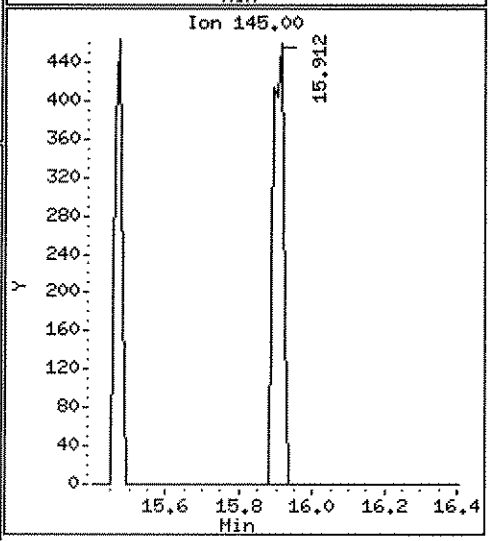












Data File: \\ELABNSH05\TARGET\chem\voa5.i\092711V5.b\0919101.D
Report Date: 28-Sep-2011 07:20

Laboratory Name

Data file : \\ELABNSH05\TARGET\chem\voa5.i\092711V5.b\0919101.D
Lab Smp Id: 1109191-01 Client Smp ID: FLC-4-SS01-0006-092
Inj Date : 27-SEP-2011 10:54 MS Autotune Date: 28-JUL-1998 05:19
Operator : ADM Inst ID: voa5.i
Smp Info : 1109191-01;;;;;
Misc Info : ;;;;;8260.sub;
Comment :
Method : \\ELABNSH05\TARGET\chem\voa5.i\092711V5.b\VS5SUR.m
Meth Date : 28-Sep-2011 07:17 amonteiro Quant Type: ISTD
Cal Date : 22-SEP-2011 14:24 Cal File: 0922CAL1.D
Als bottle: 9
Dil Factor: 1.00000
Integrator: HP RTE Compound Sublist: 8260.sub
Target Version: 4.04
Processing Host: TARGET02_VM

Concentration Formula: Amt * DF * 5*Uf/(Ws*(Solids/100))

Name	Value	Description
DF	1.000	Dilution Factor
Uf	1.000	unit correction factor
Ws	5.000	Weight of sample extracted (g)
Solids	100.000	Percent Solids

MG 9/28/11

PDW 9-29-11

Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS ON-COLUMN (ug/Kg)	FINAL (ug/Kg)
* 55 Fluorobenzene	96	7.864	7.864	(1.000)	746176	30.0000	
10 Acetonitrile	41	3.757	3.767	(0.478)	23255	21.6791	21.68
20 Methylene chloride	84	4.653	4.643	(0.592)	60345	6.95158	6.952
34 2-Butanone	43	6.141	6.141	(0.781)	13499	3.33001	3.330(a)
29 Hexane	57	5.914	5.904	(0.752)	13712	1.04996	1.050
$ 44 Dibromofluoromethane	111	6.840	6.840	(0.870)	213763	33.4513	33.45
51 Cyclohexane	56	7.500	7.500	(0.954)	9330	0.64590	0.6459(a)
$ 48 1,2-Dichloroethane-d4	102	7.342	7.332	(0.934)	43421	33.0710	33.07
53 Benzene	78	7.598	7.598	(0.966)	47286	1.64641	1.646
$ 71 Toluene-d8	98	9.568	9.568	(0.870)	651323	31.3828	31.38
74 Toluene	92	9.647	9.647	(0.877)	59169	3.95064	3.951
63 Methyl cyclohexane	83	8.741	8.741	(1.111)	11541	0.97589	0.9759(a)
* 82 Chlorobenzene-d5	82	10.997	10.997	(1.000)	315840	30.0000	
86 Ethylbenzene	91	11.184	11.184	(1.017)	44540	1.62376	1.624
87 m,p-Xylene	91	11.302	11.302	(1.028)	59649	3.14401	3.144

Data File: \\ELABNSH05\TARGET\chem\voa5.i\092711V5.b\0919101.D
Report Date: 28-Sep-2011 07:20

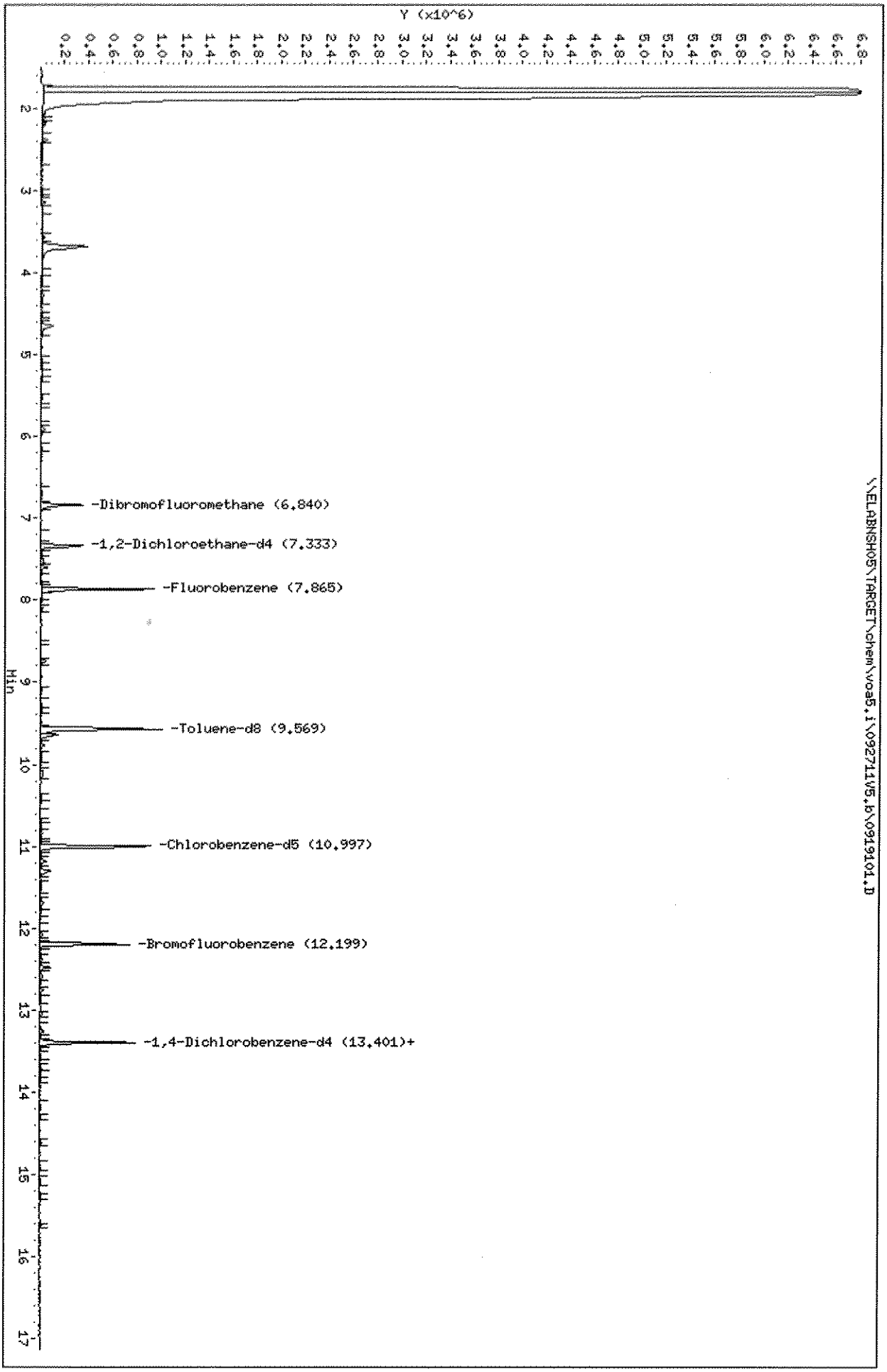
Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS ON-COLUMN (ug/Kg)	FINAL (ug/Kg)
M 119 Xylene(total)	91				82622	4.31471	4.315
89 o-Xylene	91	11.686	11.696	(1.063)	22973	1.17070	1.171
$ 97 Bromofluorobenzene	95	12.198	12.199	(1.109)	258929	29.5624	29.56
106 1,2,4-Trimethylbenzene	105	13.046	13.046	(0.974)	12440	0.99732	0.9973(a)
* 110 1,4-Dichlorobenzene-d4	152	13.400	13.400	(1.000)	177009	30.0000	(Q)
109 p-Isopropyltoluene	119	13.390	13.390	(0.999)	32583	2.69338	2.693

QC Flag Legend

a - Target compound detected but, quantitated amount
Below Limit Of Quantitation(BLOQ).
Q - Qualifier signal failed the ratio test.

Data File: \\ELABNSHO5\TARGET\chem\voa5.i\092711V5.b\0919101.D
Date : 27-SEP-2011 10:54
Client ID: FLC-4-SS01-0006-092
Sample Info: 1109191-01;;;;;
Column phase: RTX-VRX

Instrument: voa5.i
Operator: ADM
Column diameter: 0.25



Data File: \\ELABNSH05\TARGET\chem\voa5.i\092711V5.b\0919101.D

Date : 27-SEP-2011 10:54

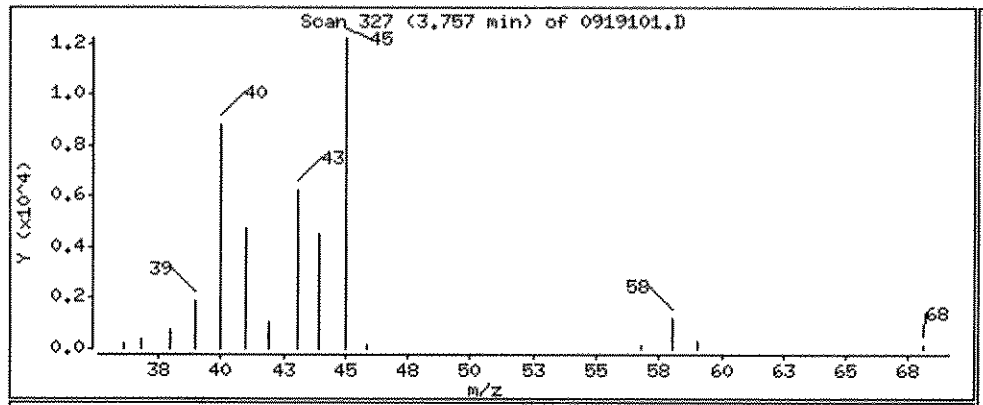
Client ID: FLC-4-SS01-0006-092 Instrument: voa5.i

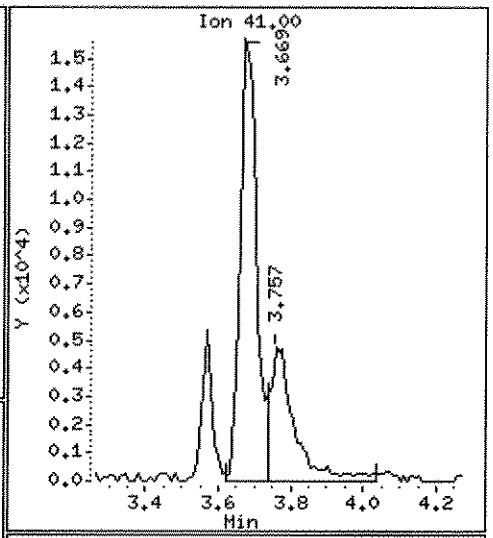
Sample Info: 1109191-01;;;;;

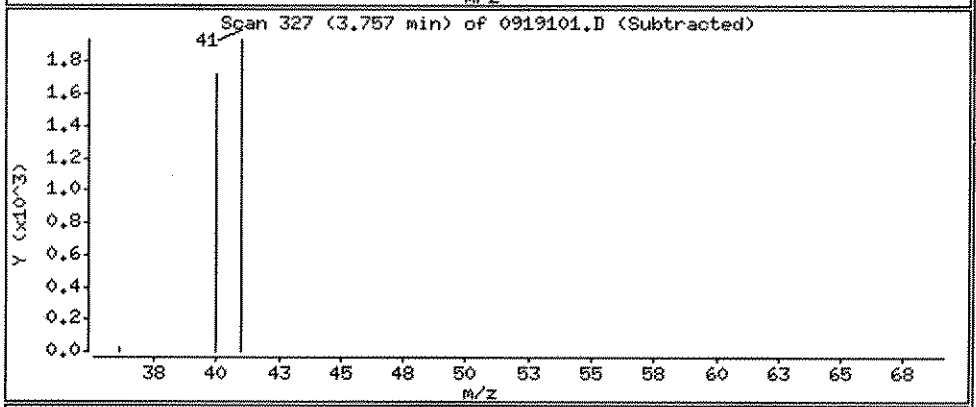
Operator: ADM

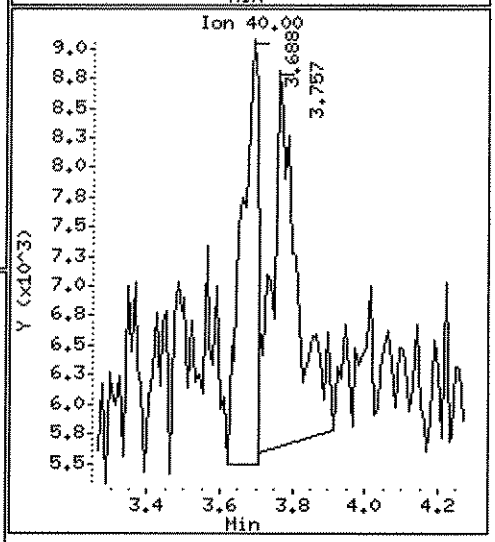
Column phase: RTX-VRX Column diameter: 0.25

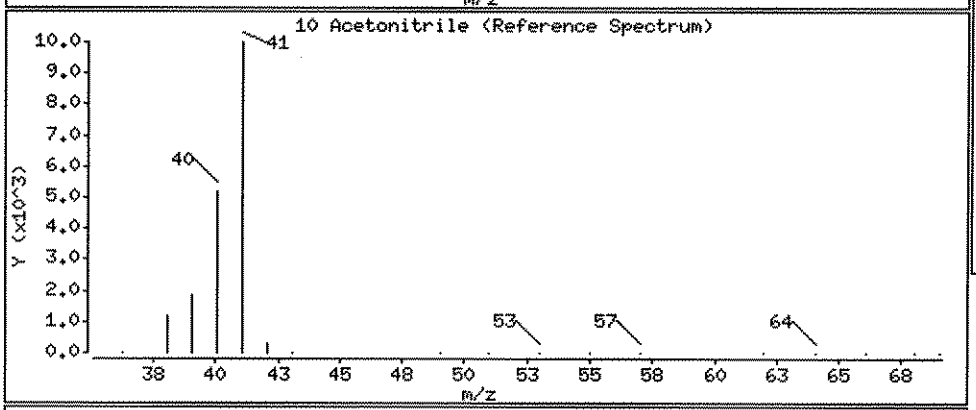
10 Acetonitrile Concentration: 21.68 ug/Kg

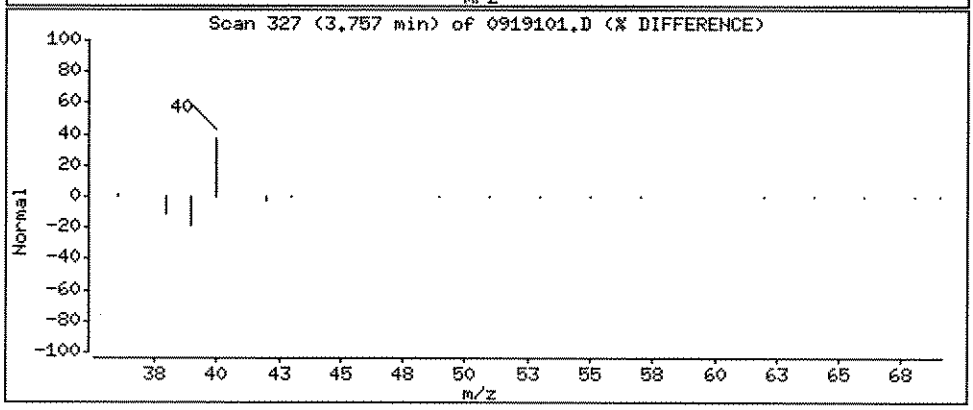












Data File: \\ELABNSH05\TARGET\chem\voa5.i\092711V5.b\0919101.D

Date : 27-SEP-2011 10:54

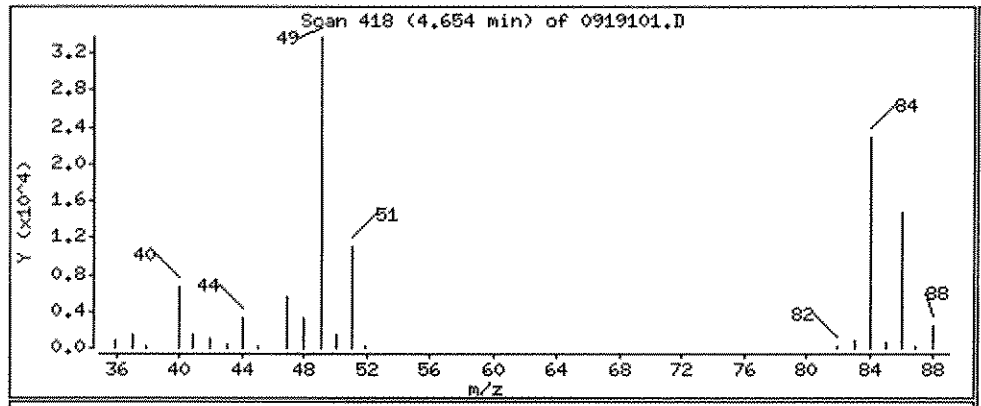
Client ID: FLC-4-SS01-0006-092 Instrument: voa5.i

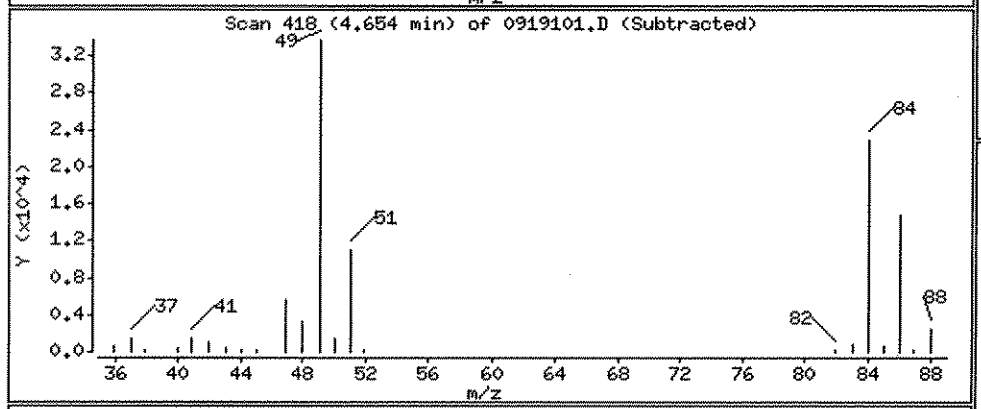
Sample Info: 1109191-01;;;;;

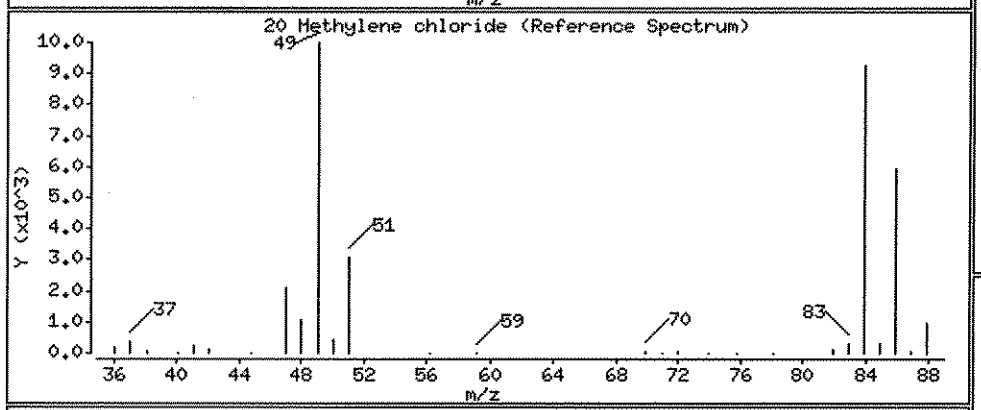
Operator: ADM

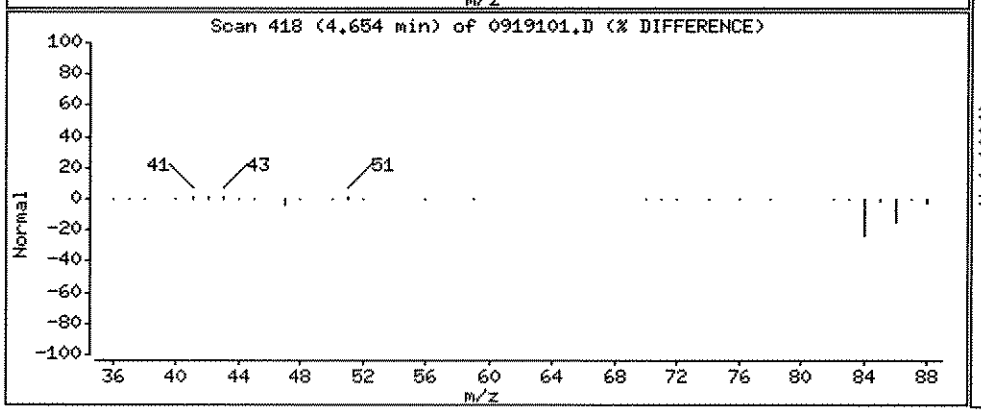
Column phase: RTX-VRX Column diameter: 0.25

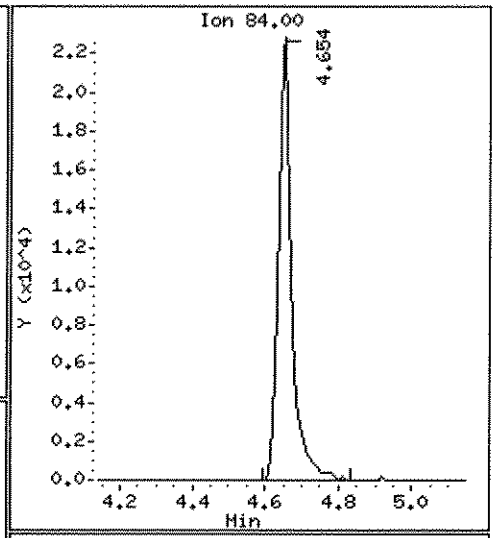
20 Methylene chloride Concentration: 6.952 ug/Kg

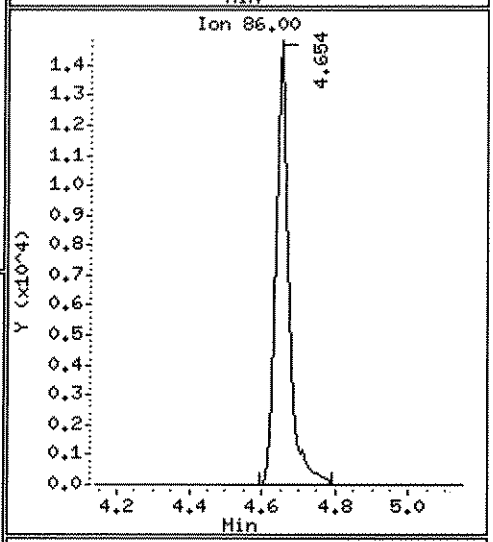


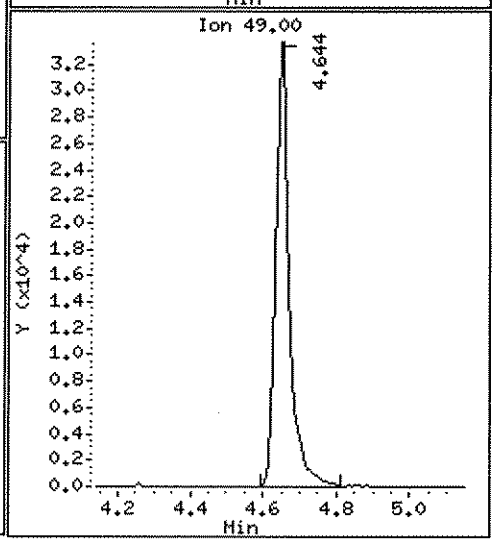












Data File: \\ELABNSH05\TARGET\chem\voa5.i\092711V5.b\0919101.D

Date : 27-SEP-2011 10:54

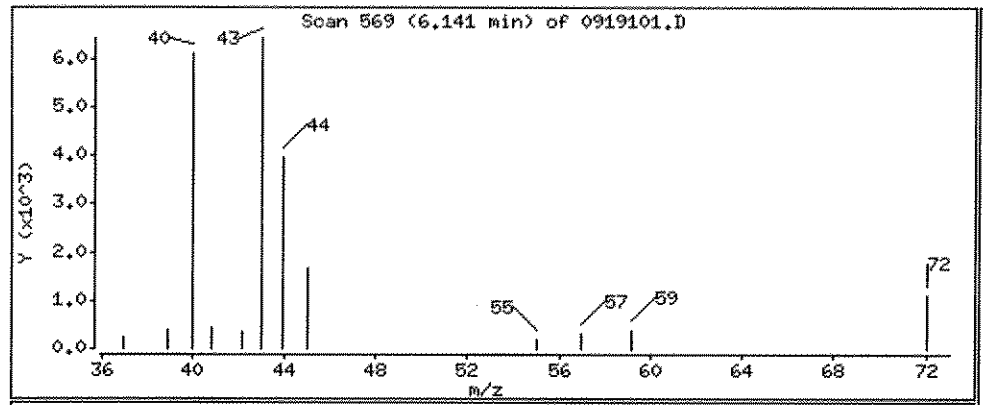
Client ID: FLC-4-SS01-0006-092 Instrument: voa5.i

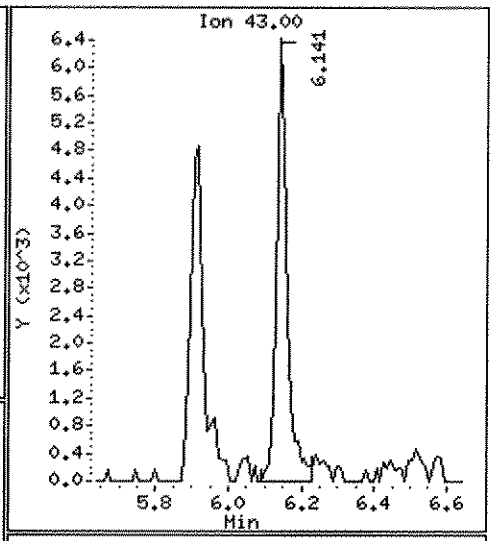
Sample Info: 1109191-01;;;;;

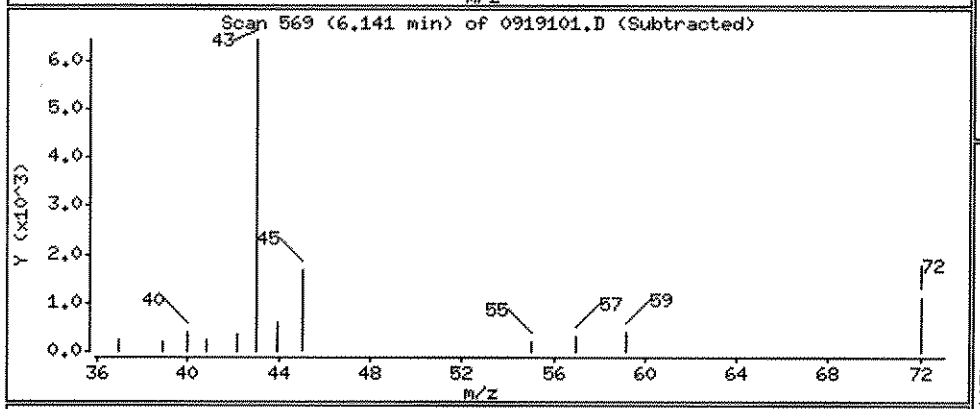
Operator: ADM

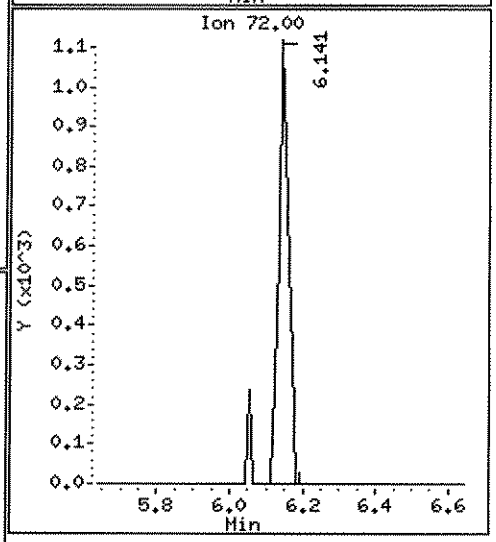
Column phase: RTX-VRX Column diameter: 0.25

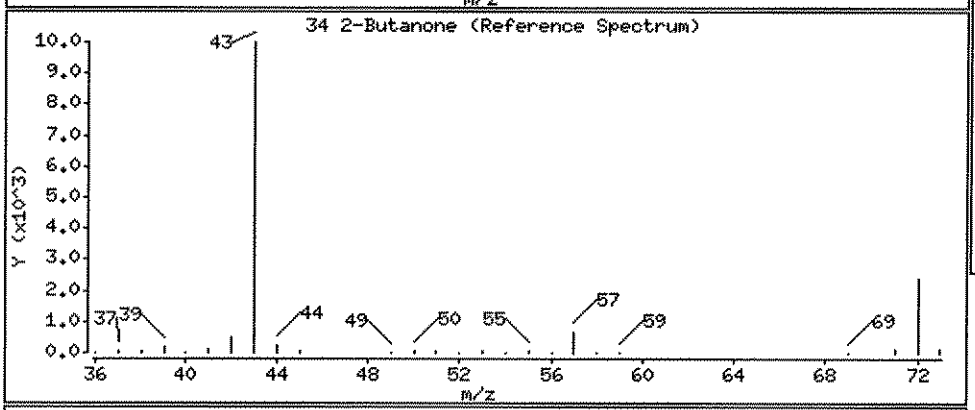
34 2-Butanone Concentration: 3.330 ug/Kg

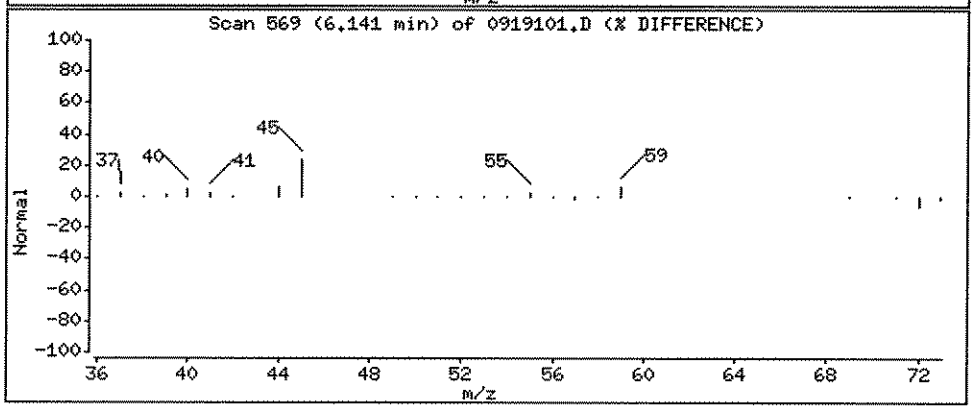












Data File: \\ELABNSH05\TARGET\chem\voa5.i\092711V5.b\0919101.D

Date : 27-SEP-2011 10:54

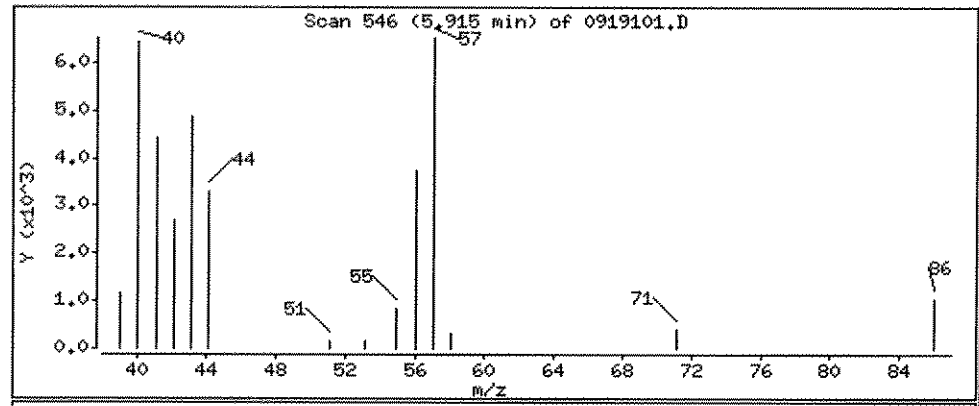
Client ID: FLC-4-SS01-0006-092 Instrument: voa5.i

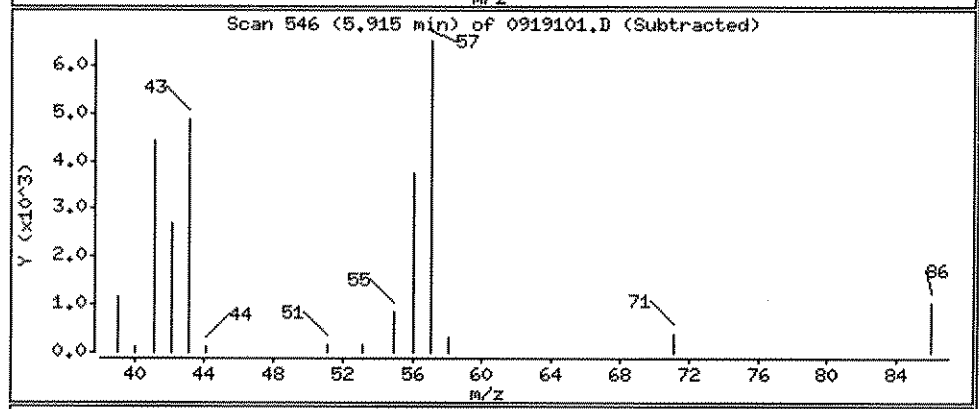
Sample Info: 1109191-01;;;;;

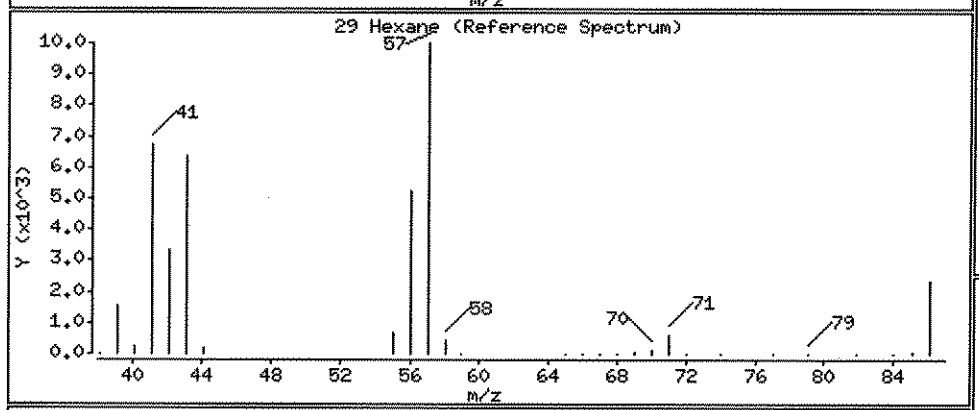
Operator: ADM

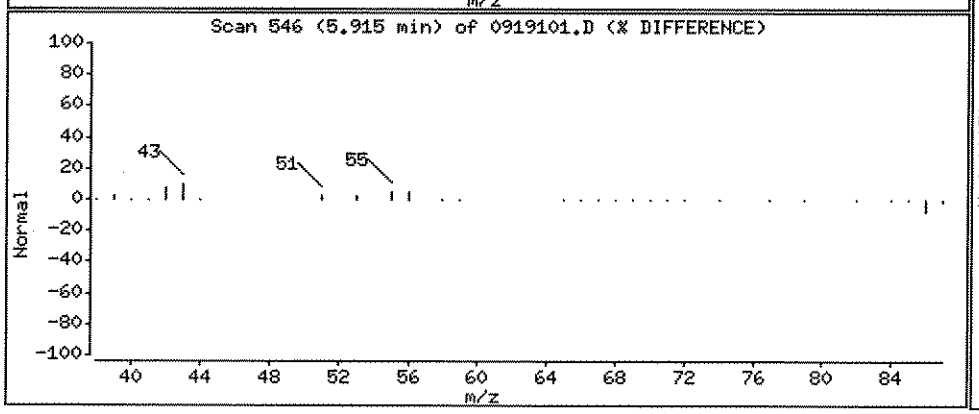
Column phase: RTX-VRX Column diameter: 0.25

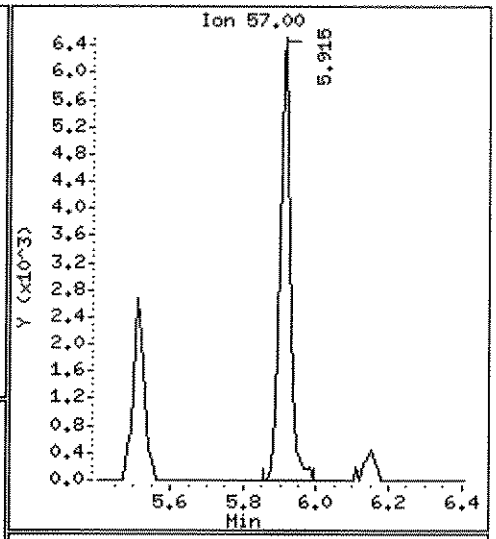
29 Hexane Concentration: 1.050 ug/Kg

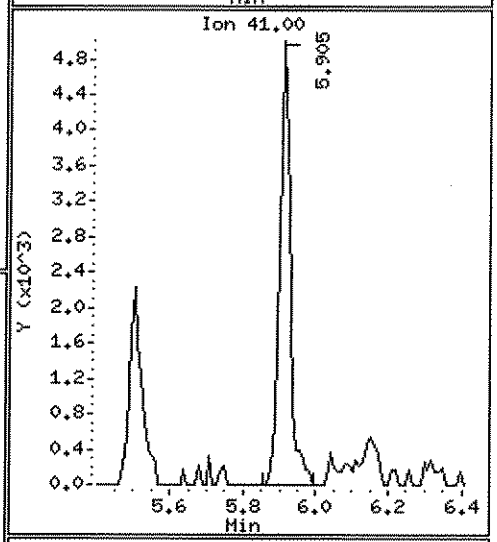


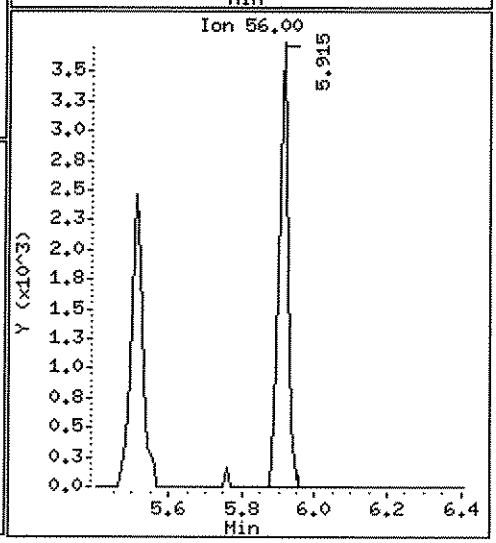












Data File: \\ELABNSHO5\TARGET\chem\voa5.i\092711V5.b\0919101.D

Date : 27-SEP-2011 10:54

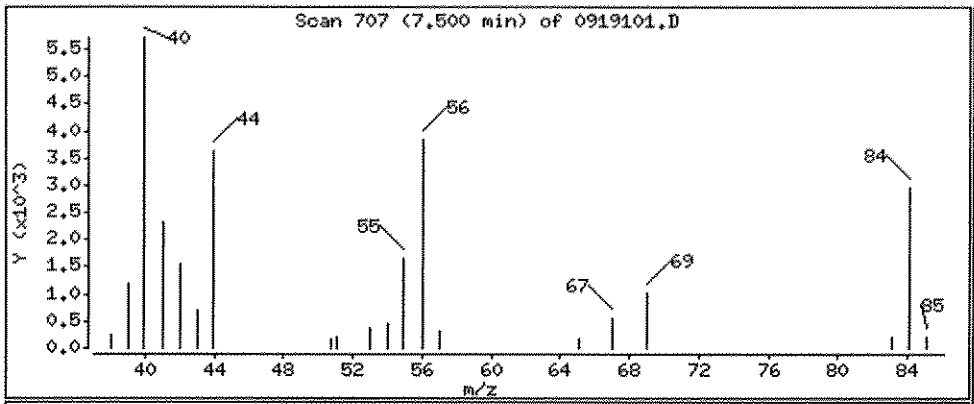
Client ID: FLC-4-SS01-0006-092 Instrument: voa5.i

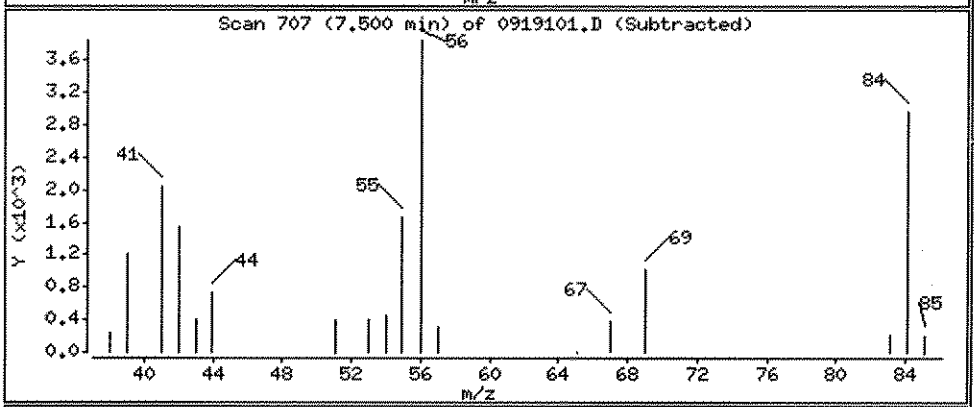
Sample Info: 1109191-01;;;;;

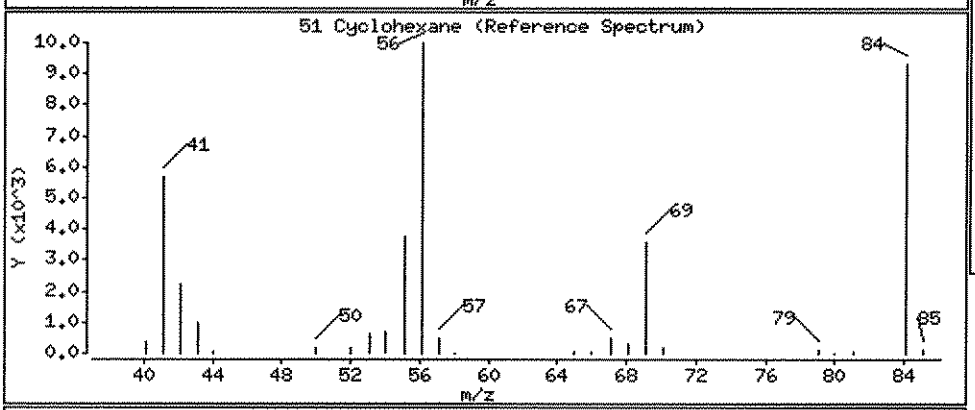
Operator: ADM

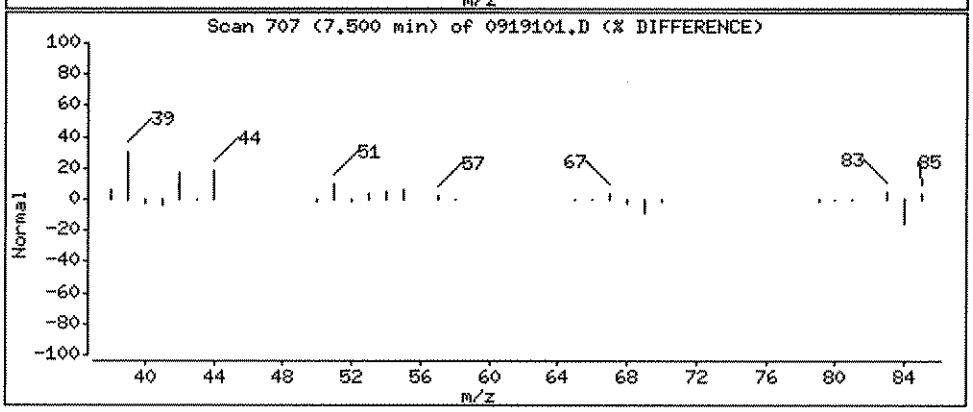
Column phase: RTX-VRX Column diameter: 0.25

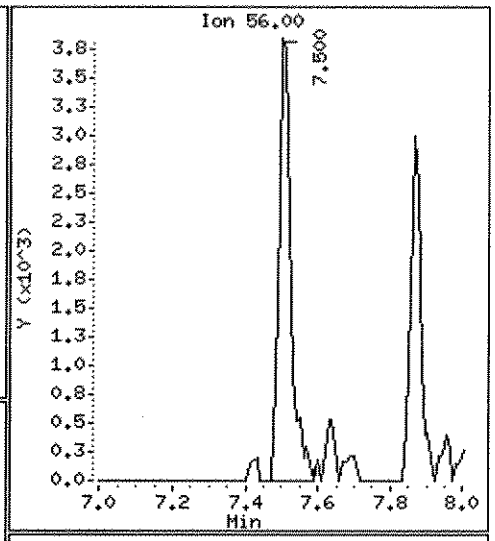
51 Cyclohexane Concentration: 0.6459 ug/Kg

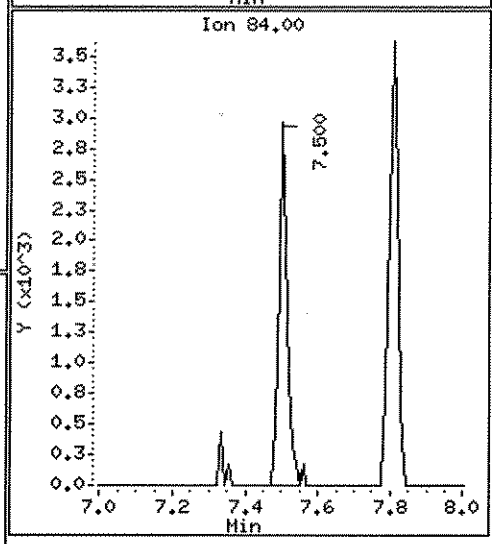












Data File: \\ELABNSH05\TARGET\chem\voa5.i\092711V5.b\0919101.D

Date : 27-SEP-2011 10:54

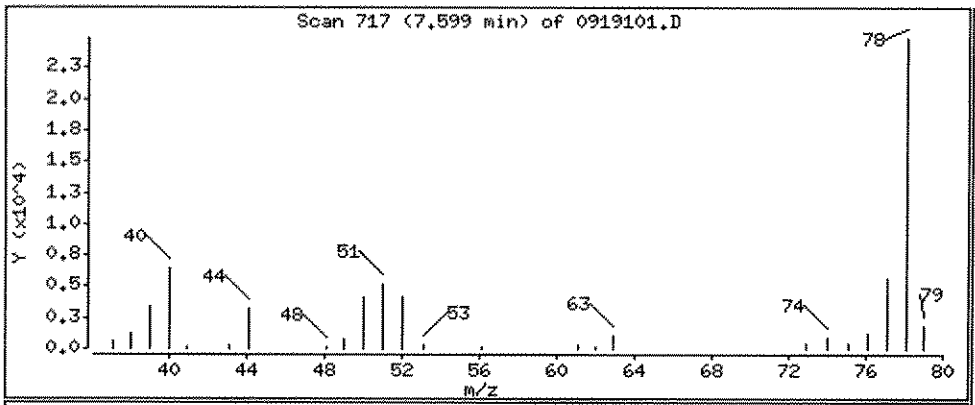
Client ID: FLC-4-SS01-0006-092 Instrument: voa5.i

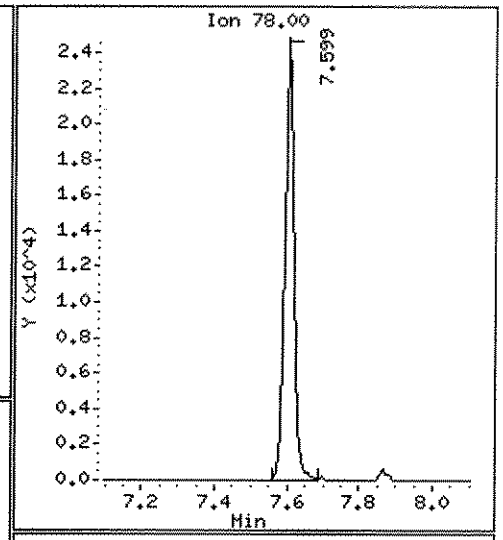
Sample Info: 1109191-01;;;;;

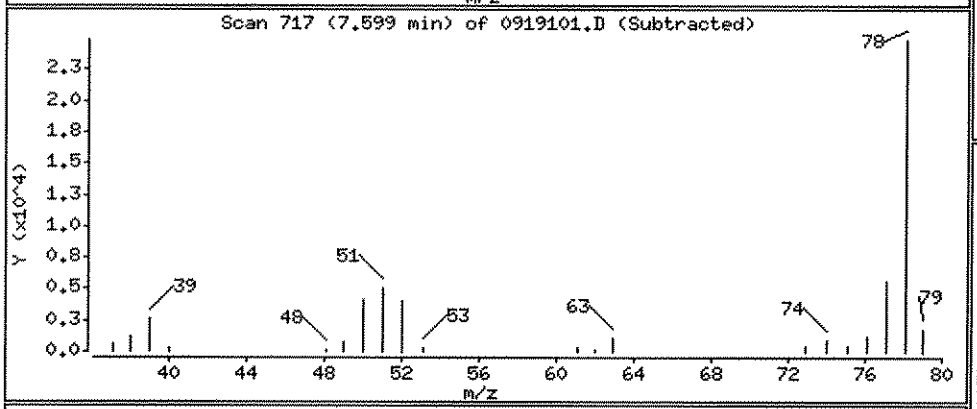
Operator: ADM

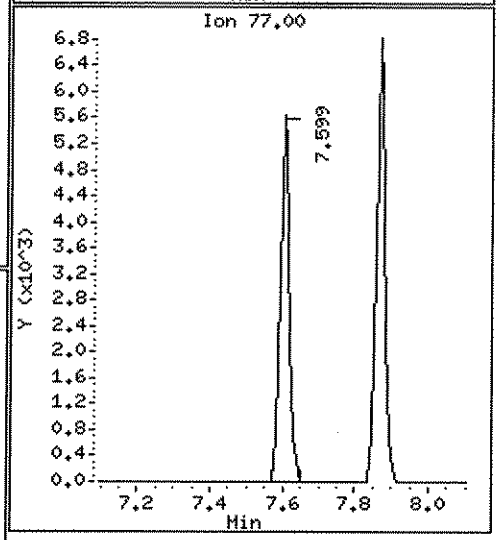
Column phase: RTX-VRX Column diameter: 0.25

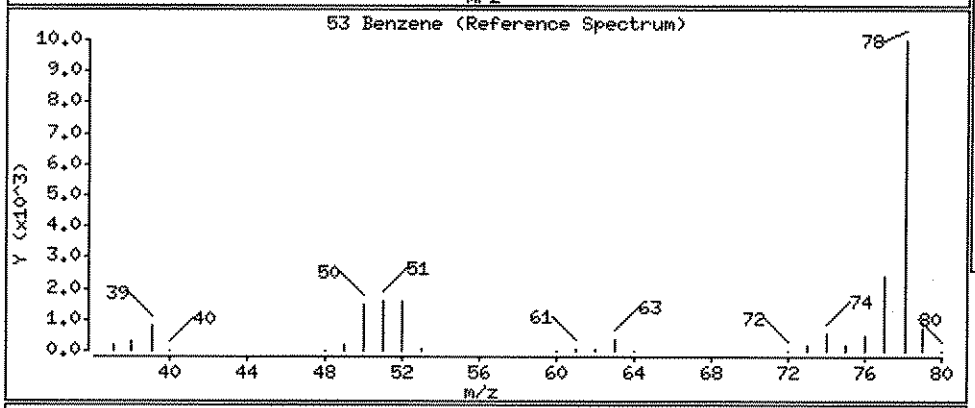
53 Benzene Concentration: 1.646 ug/Kg

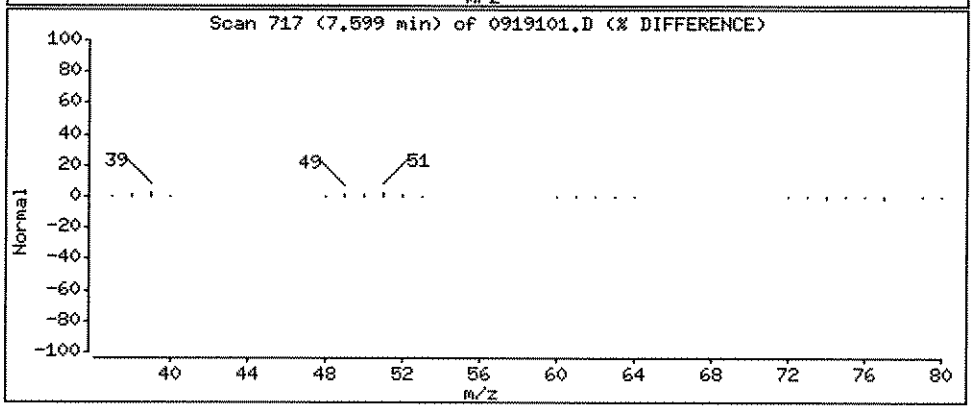












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Date : 27-SEP-2011 10:54

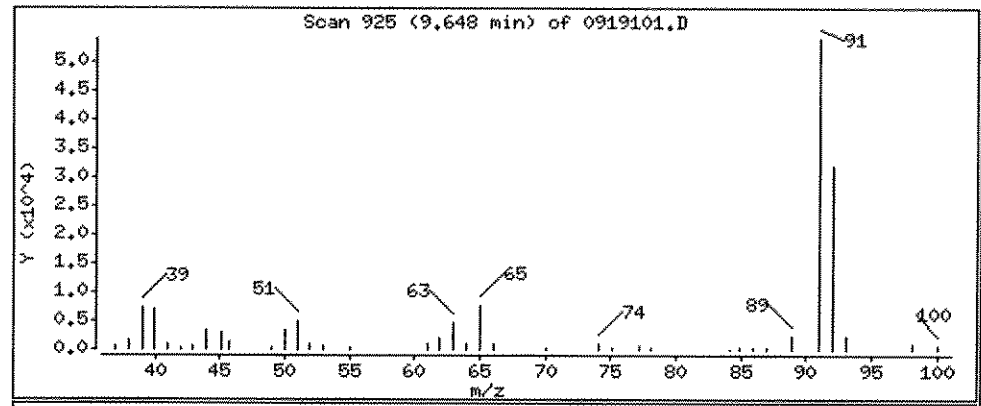
Client ID: FLC-4-SS01-0006-092 Instrument: voa5.i

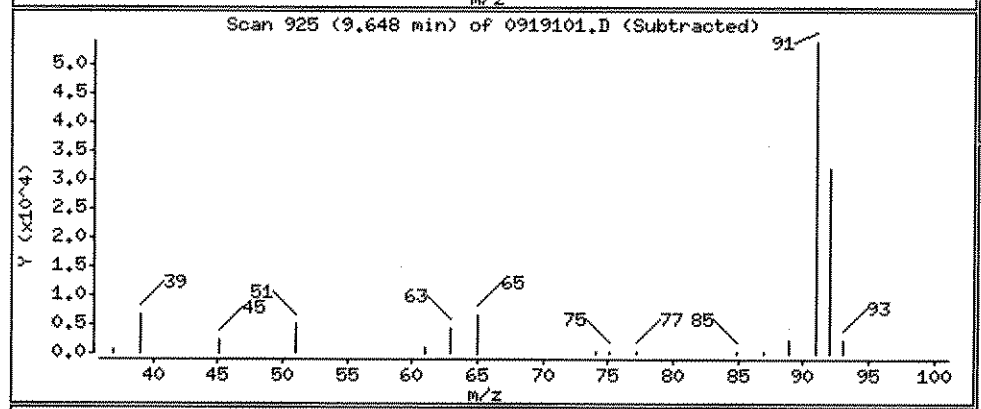
Sample Info: 1109191-01;;;;;

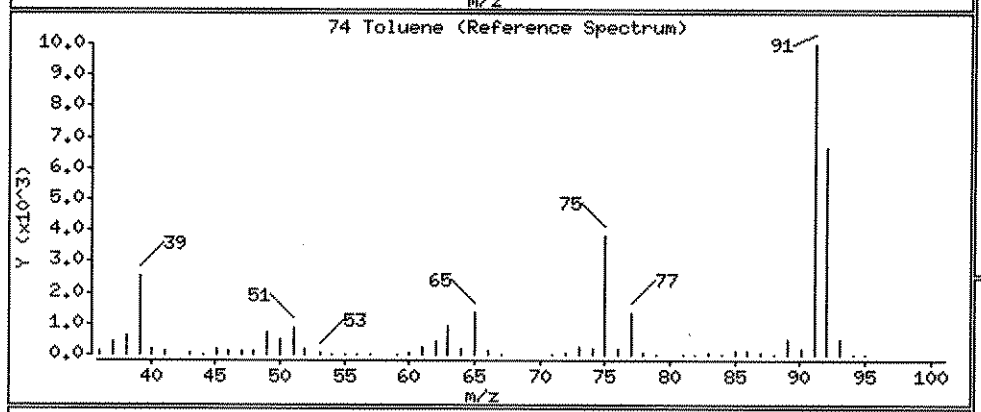
Operator: ADM

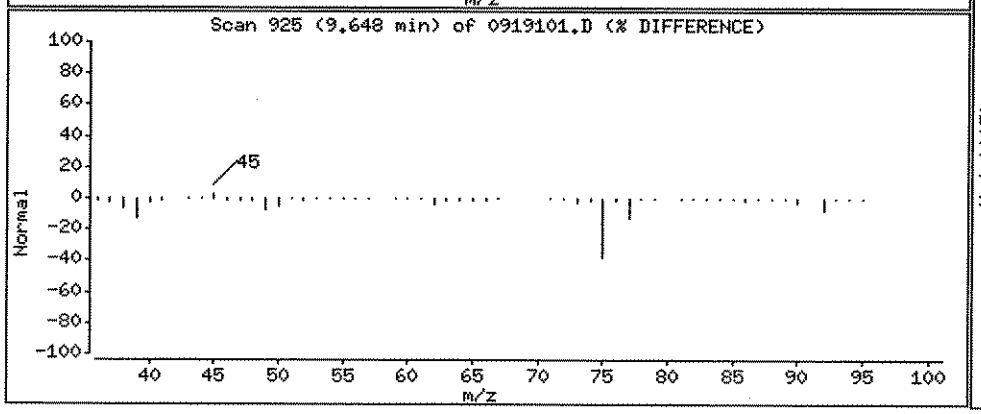
Column phase: RTX-VRX Column diameter: 0.25

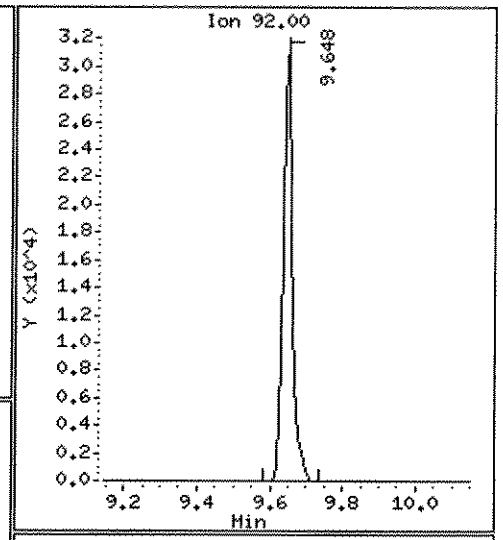
74 Toluene Concentration: 3.951 ug/Kg

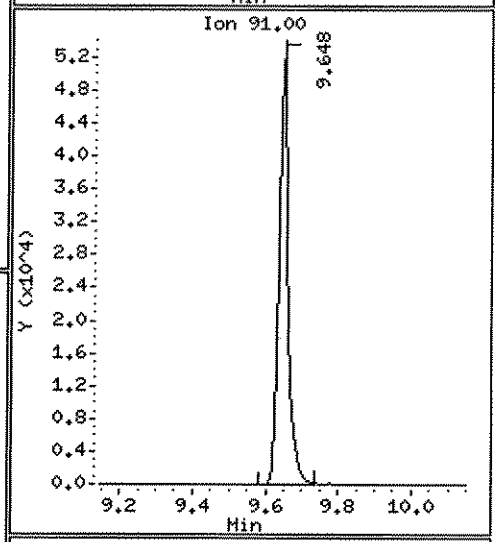


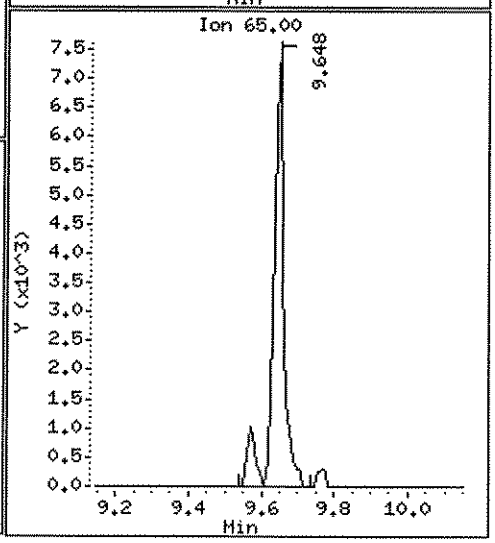












Data File: \\ELABNSHO5\TARGET\chem\voa5.i\092711V5.b\0919101.D

Date : 27-SEP-2011 10:54

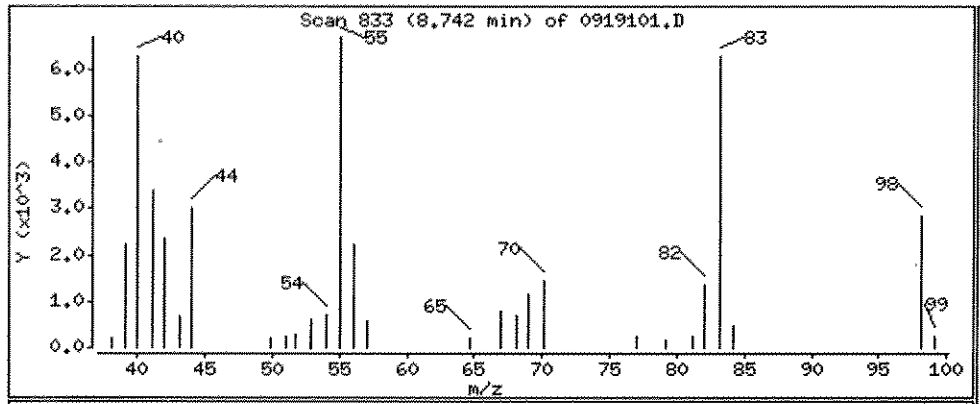
Client ID: FLC-4-SS01-0006-092 Instrument: voa5.i

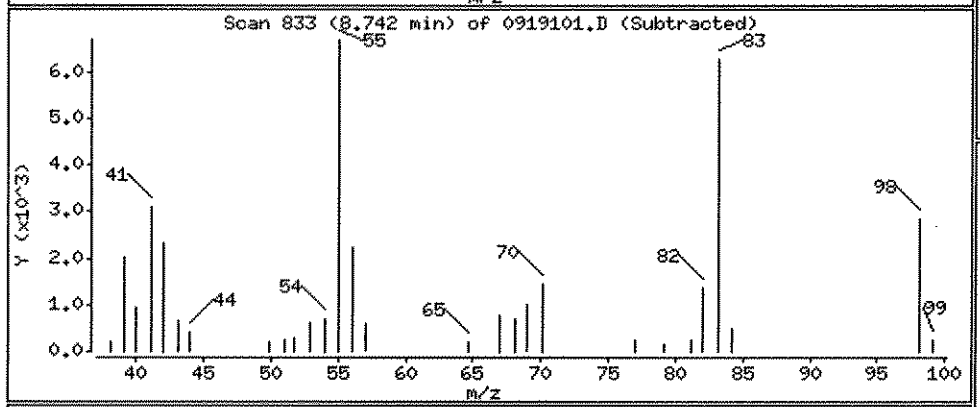
Sample Info: 1109191-01;;;;;

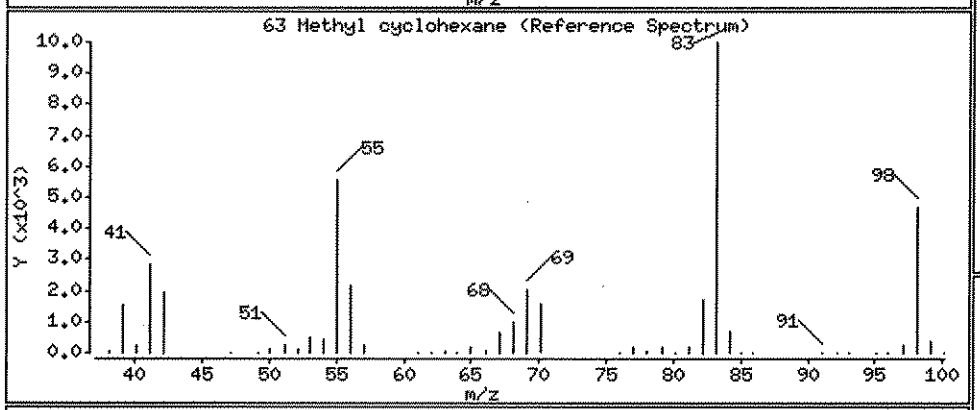
Operator: ADM

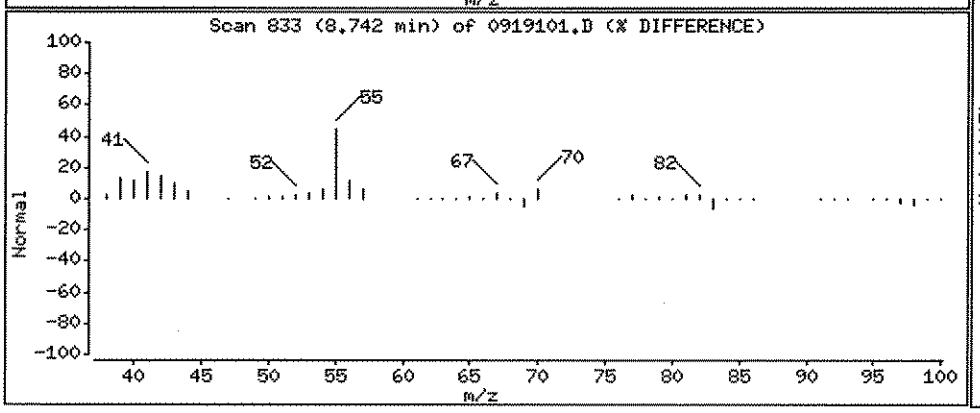
Column phase: RTX-VRX Column diameter: 0.25

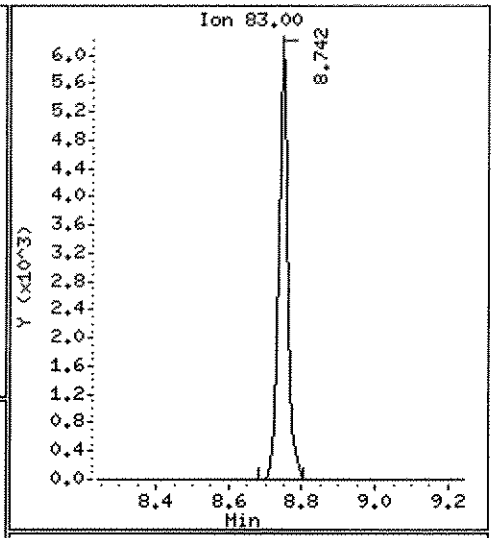
63 Methyl cyclohexane Concentration: 0.9759 ug/Kg

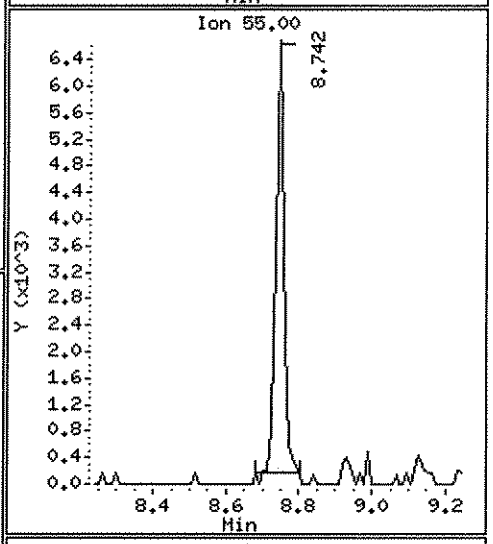


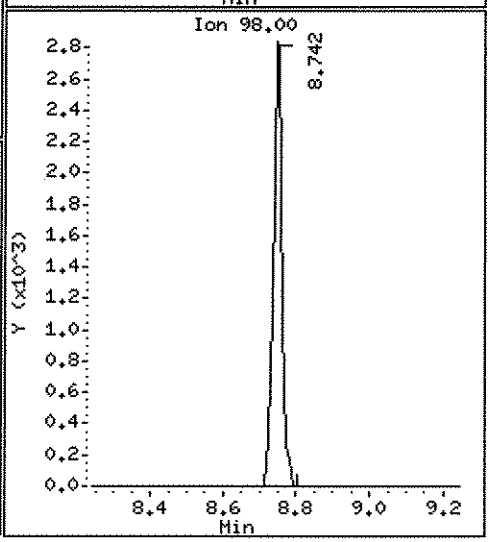












Data File: \\ELABNSH05\TARGET\chem\voa5.i\092711V5.b\0919101.D

Date : 27-SEP-2011 10:54

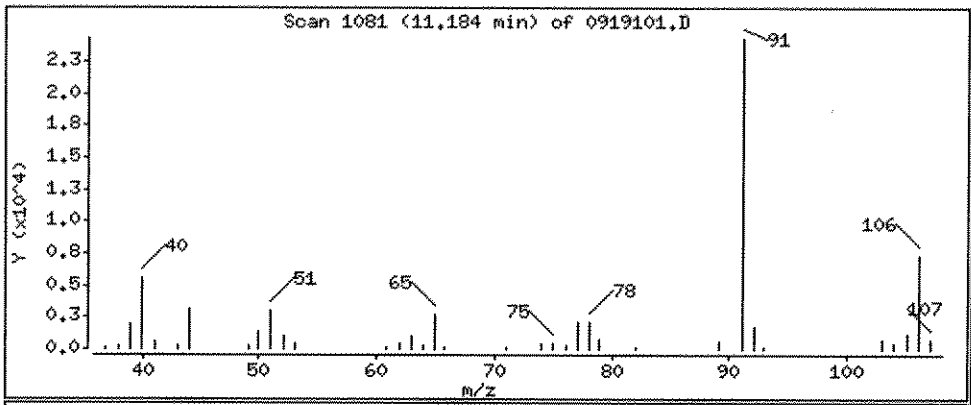
Client ID: FLC-4-SS01-0006-092 Instrument: voa5.i

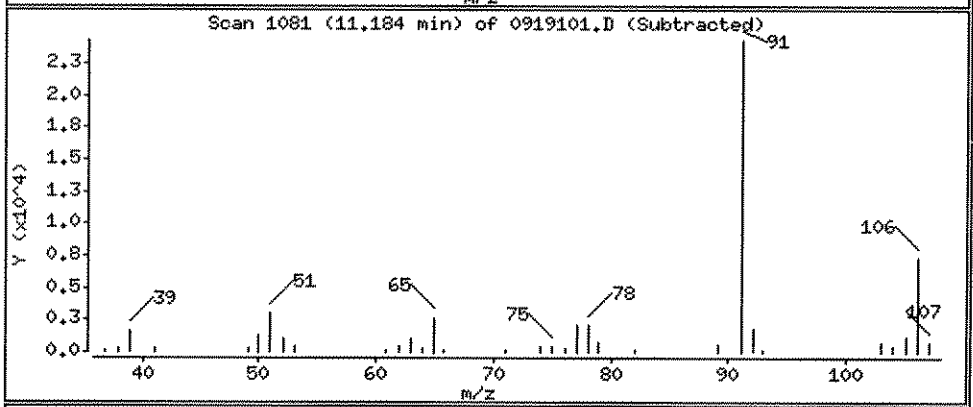
Sample Info: 1109191-01;;;;;

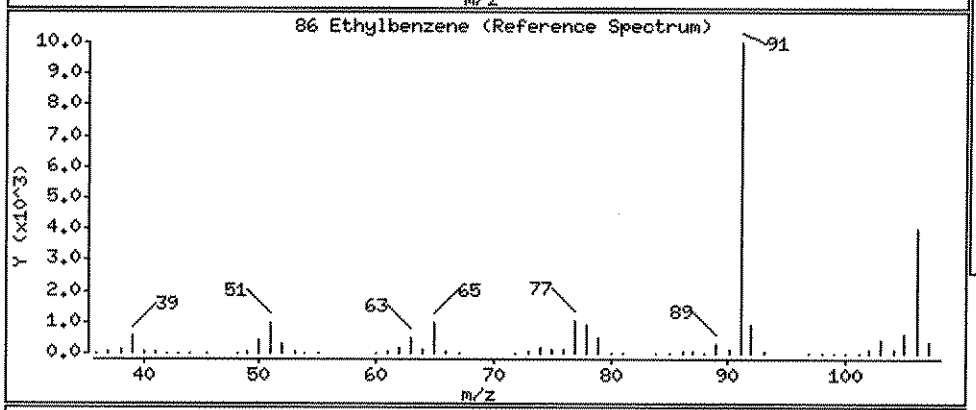
Operator: ADM

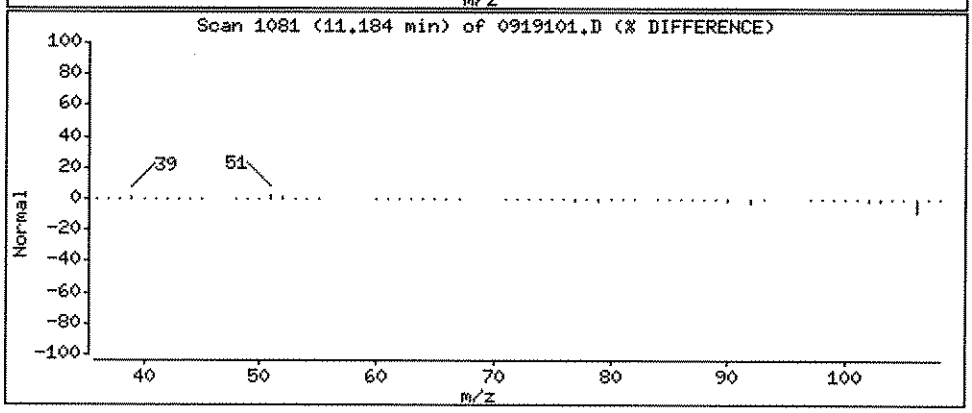
Column phase: RTX-VRX Column diameter: 0.25

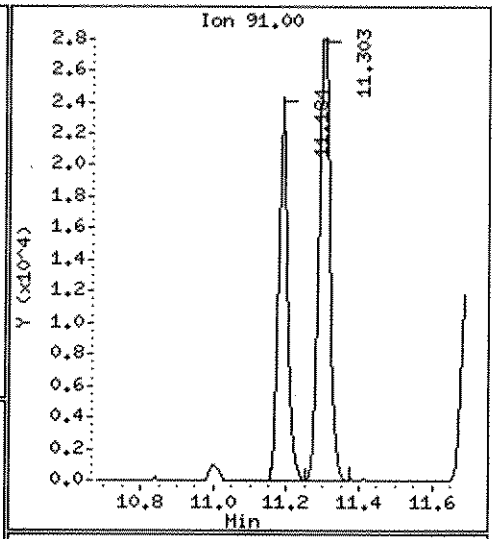
86 Ethylbenzene Concentration: 1.624 ug/Kg

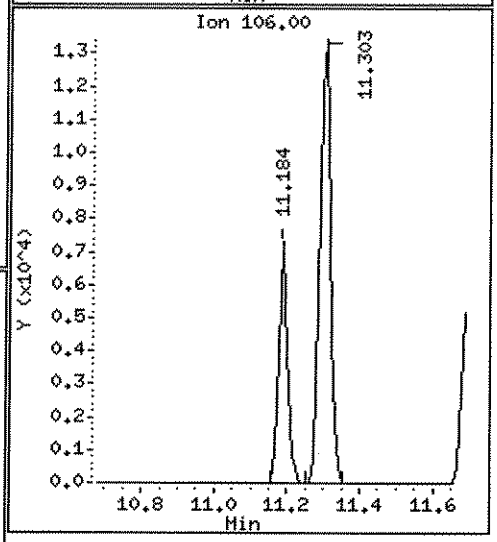












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Date : 27-SEP-2011 10:54

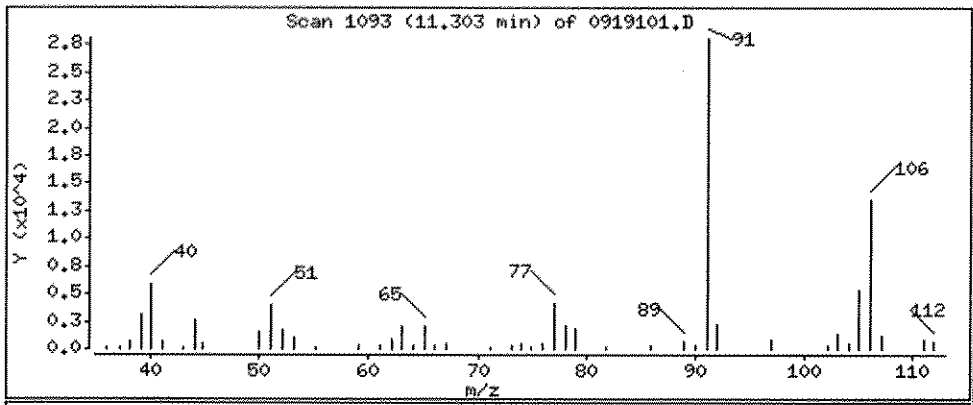
Client ID: FLC-4-SS01-0006-092 Instrument: voa5.i

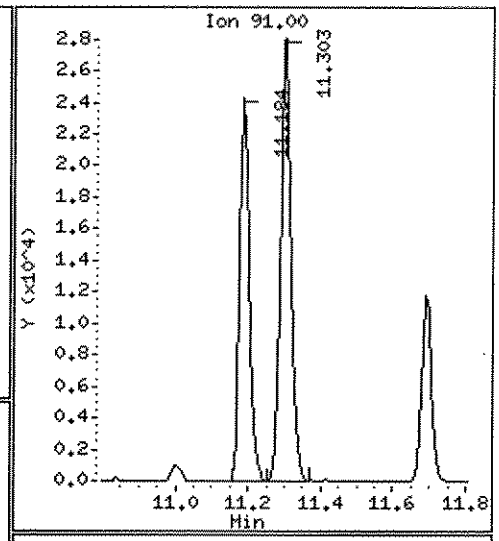
Sample Info: 1109191-01;;;;;

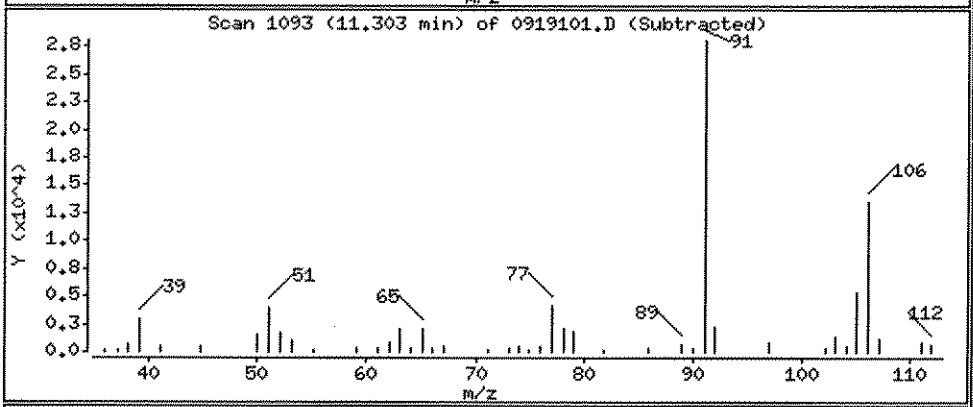
Operator: ADM

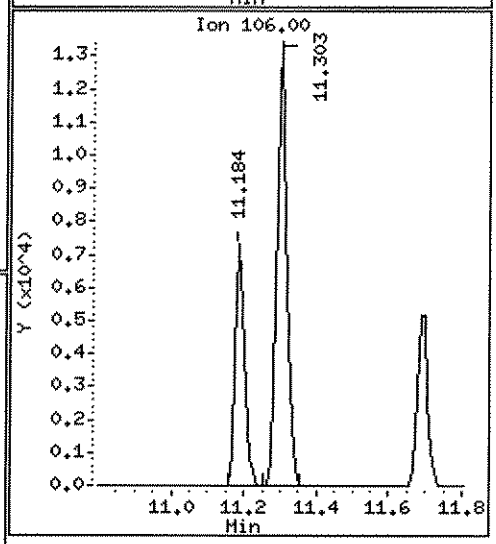
Column phase: RTX-VRX Column diameter: 0.25

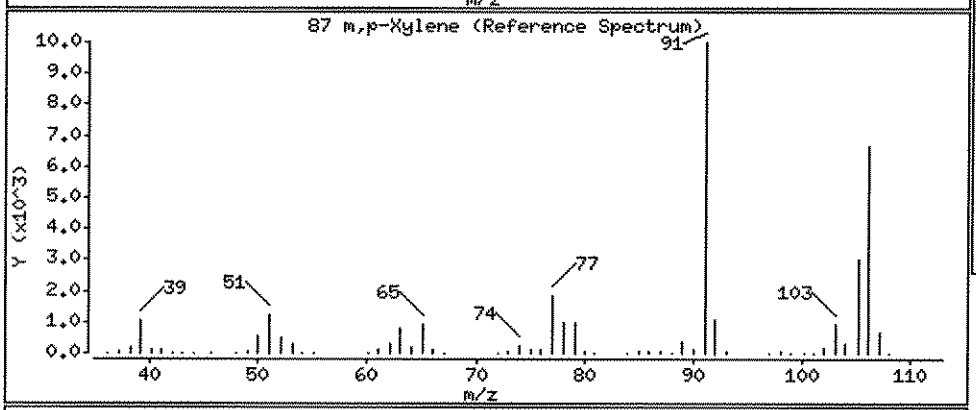
87 m,p-Xylene Concentration: 3.144 ug/Kg

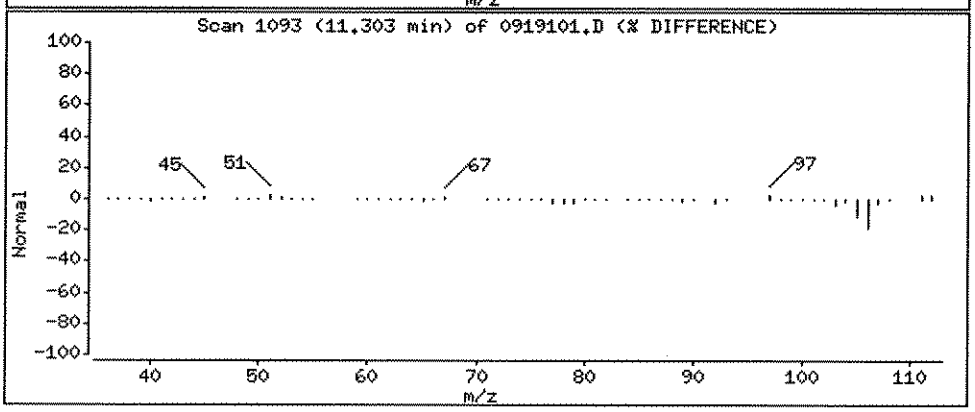












Data File: \\ELABNSH05\TARGET\chem\voa5.i\092711V5.b\0919101.D

Date : 27-SEP-2011 10:54

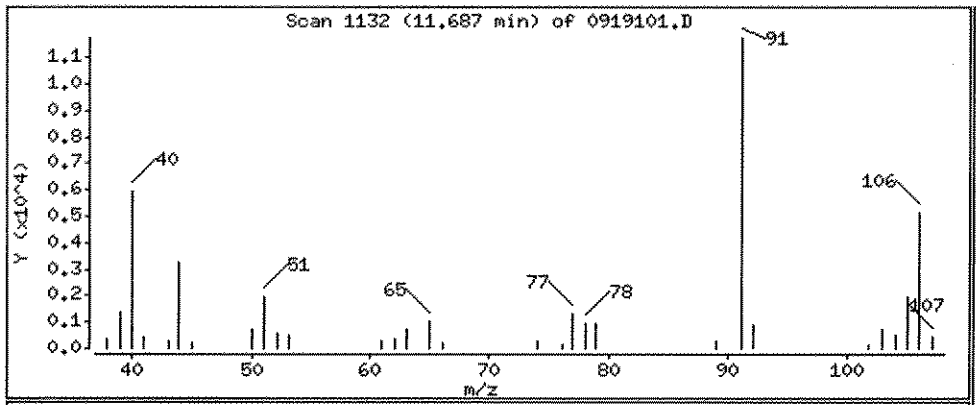
Client ID: FLC-4-SS01-0006-092 Instrument: voa5.i

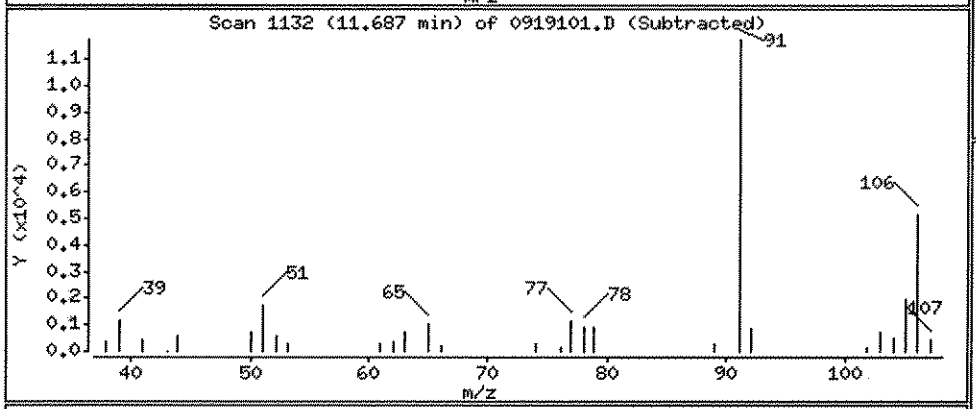
Sample Info: 1109191-01;;;;;

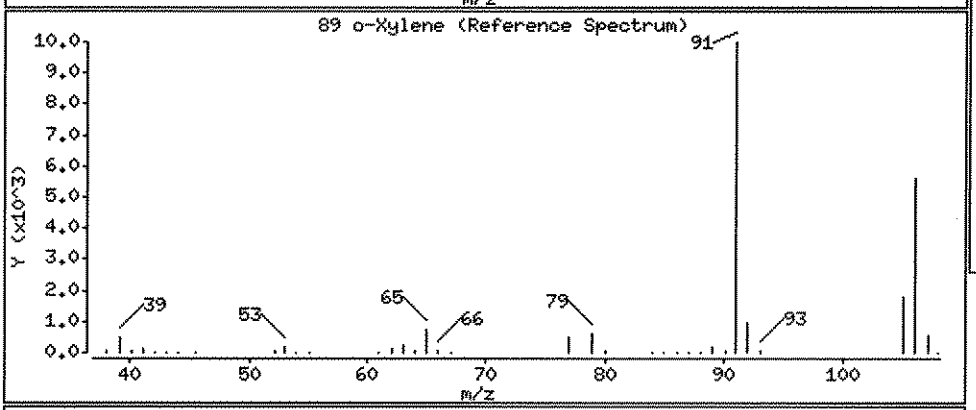
Operator: ADM

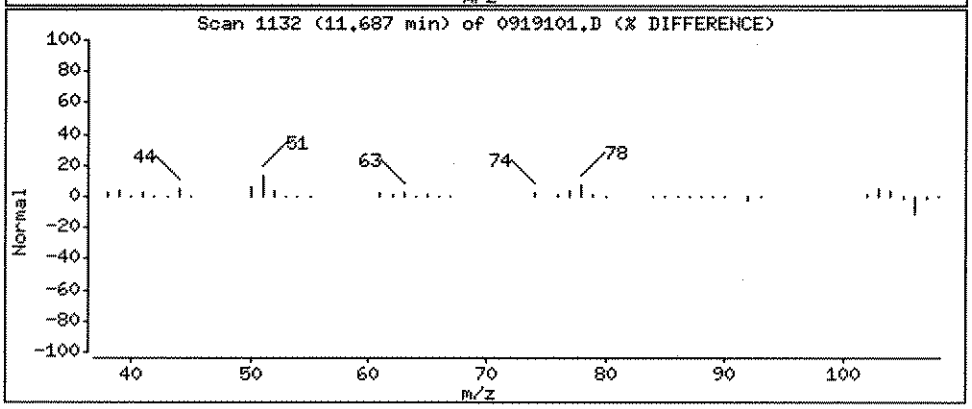
Column phase: RTX-VRX Column diameter: 0.25

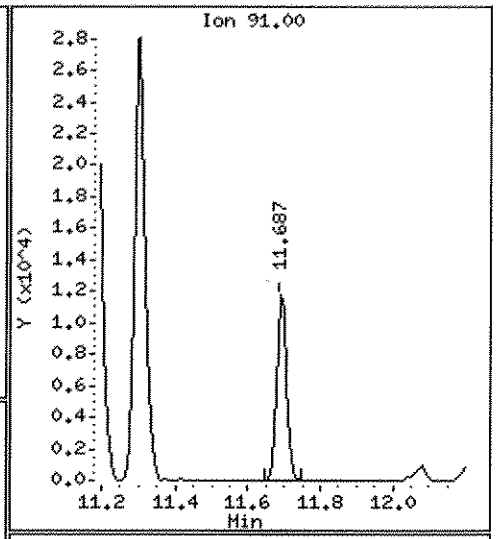
89 o-Xylene Concentration: 1.171 ug/Kg

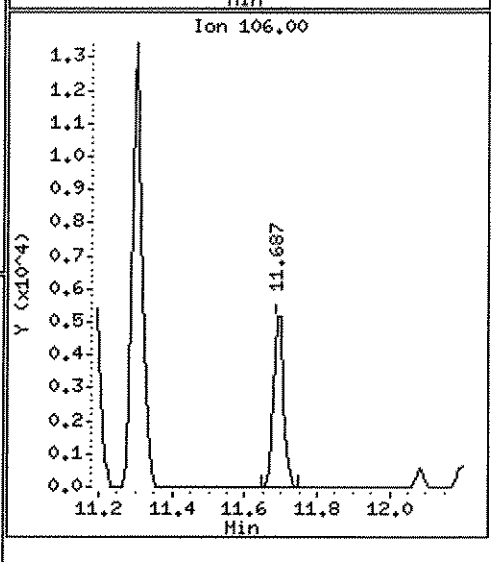












Data File: \\ELABNSH05\TARGET\chem\voa5.i\092711V5.b\0919101.D

Date : 27-SEP-2011 10:54

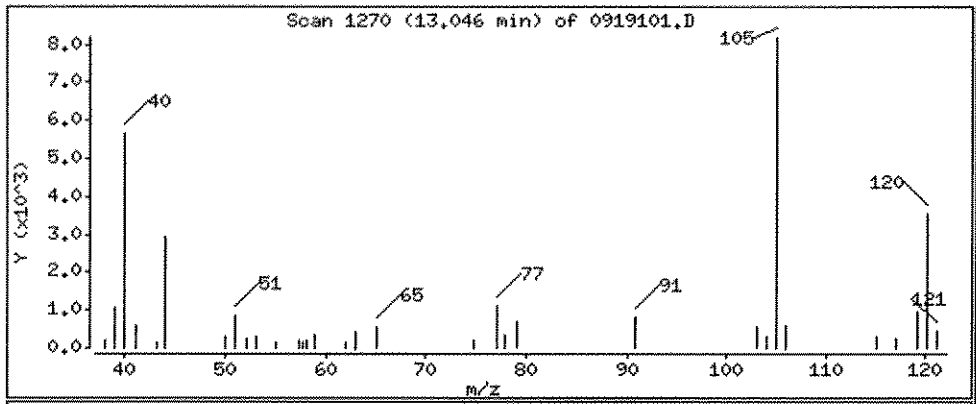
Client ID: FLC-4-SS01-0006-092 Instrument: voa5.i

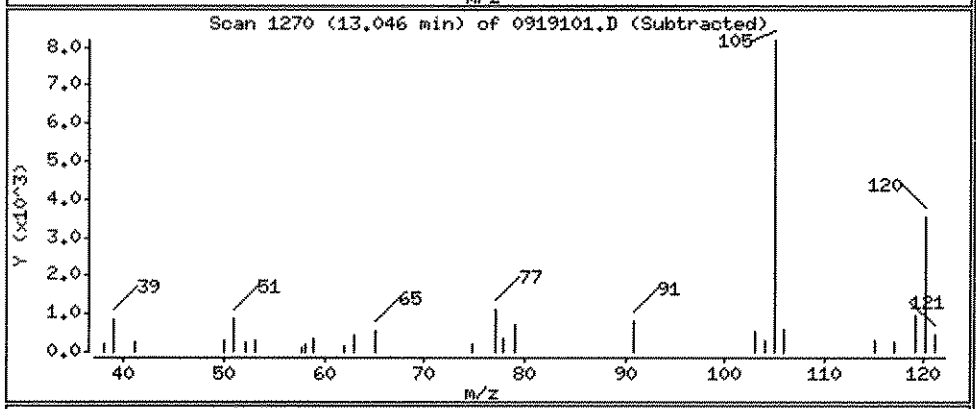
Sample Info: 1109191-01;;;;;

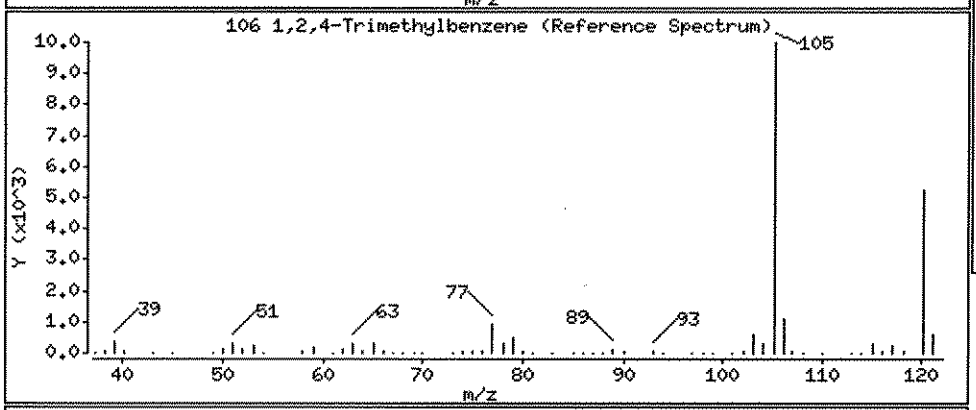
Operator: ADM

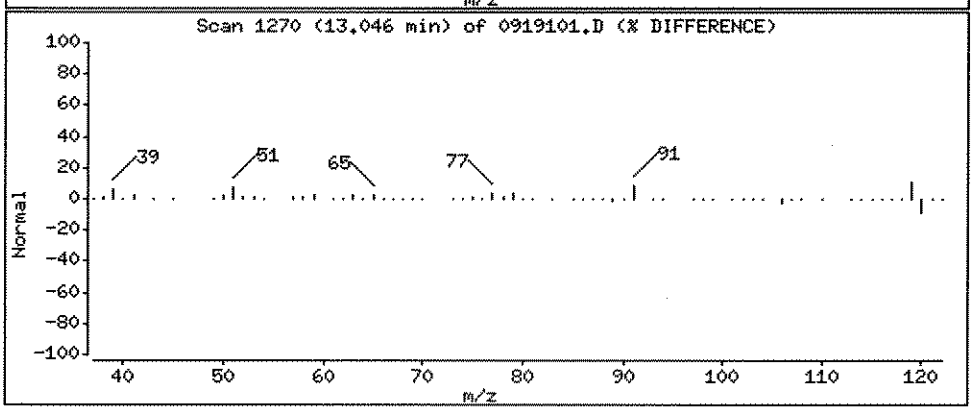
Column phase: RTX-VRX Column diameter: 0.25

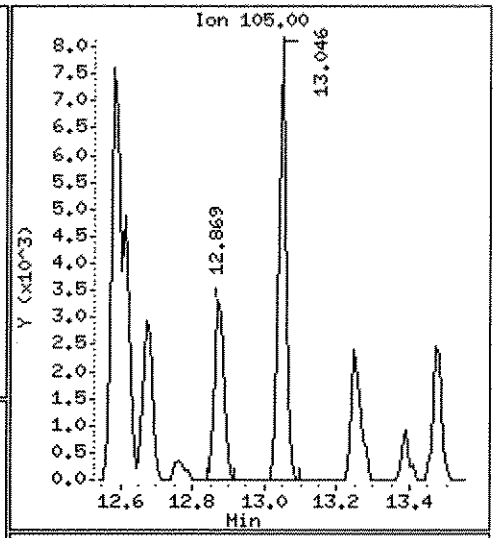
106 1,2,4-Trimethylbenzene Concentration: 0.9973 ug/Kg

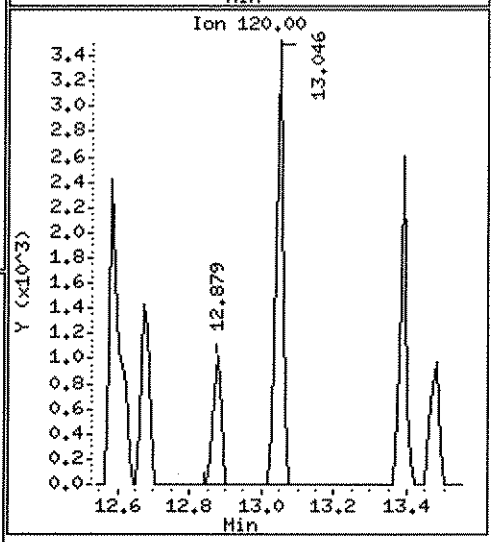












Data File: \\ELABNSH05\TARGET\chem\voa5.i\092711V5.b\0919101.D

Date : 27-SEP-2011 10:54

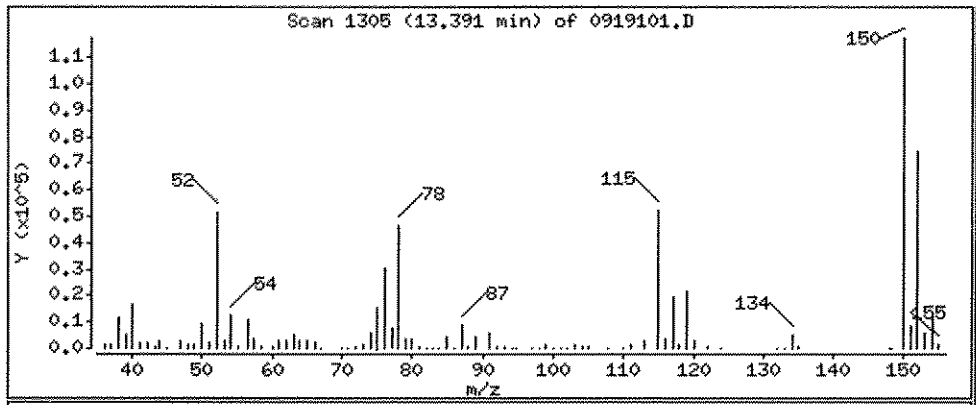
Client ID: FLC-4-SS01-0006-092 Instrument: voa5.i

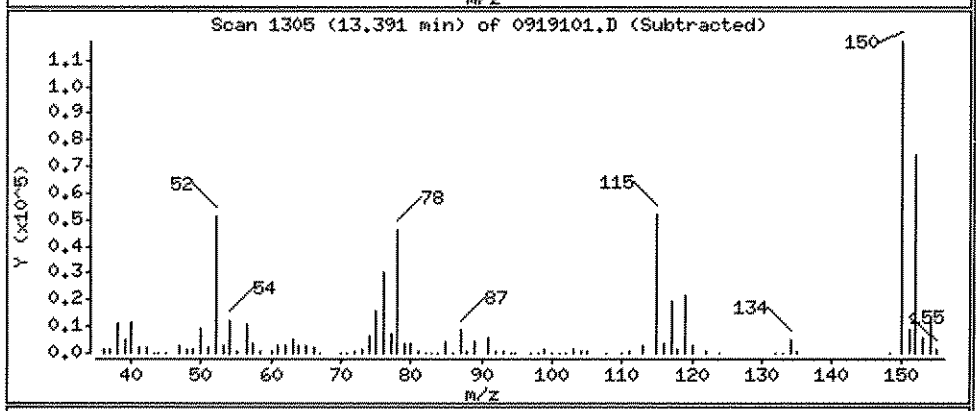
Sample Info: 1109191-01;;;;;

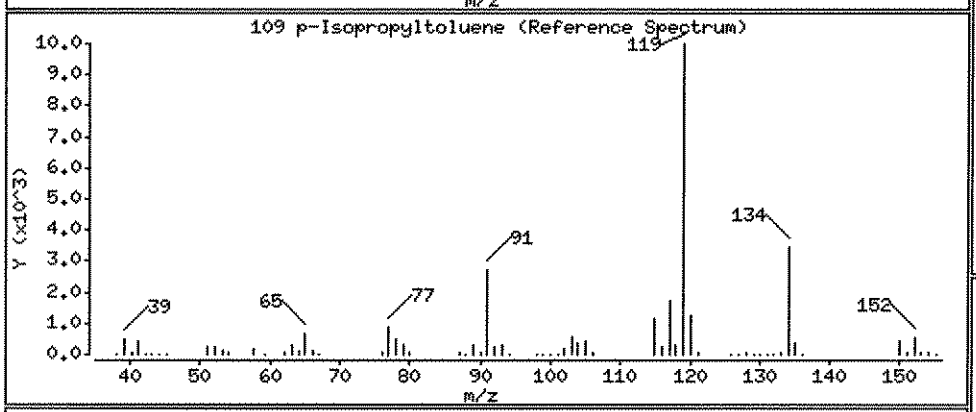
Operator: ADM

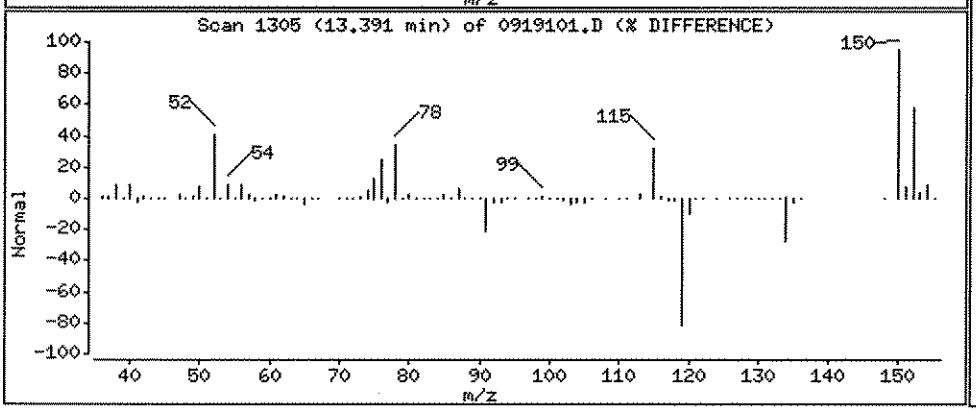
Column phase: RTX-VRX Column diameter: 0.25

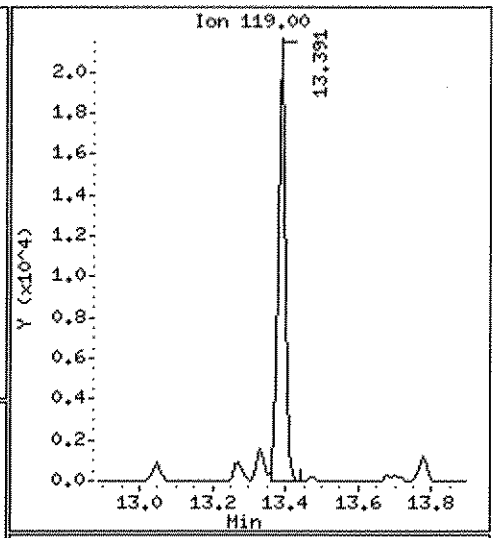
109 p-Isopropyltoluene Concentration: 2.693 ug/Kg

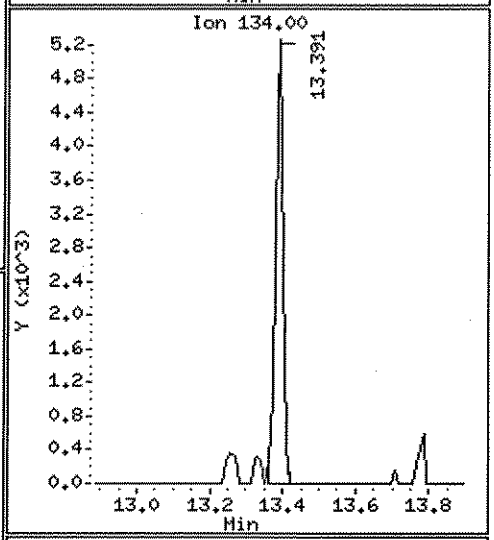


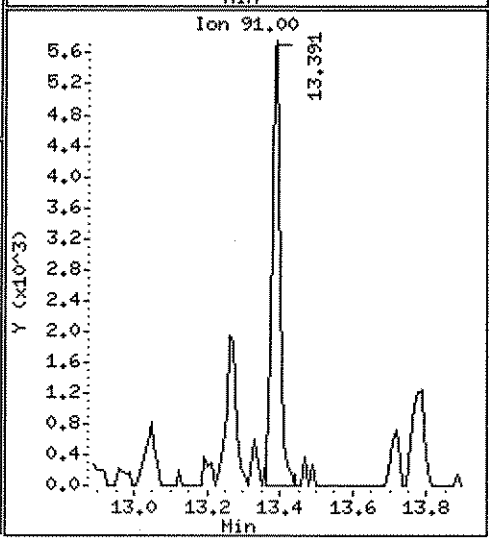












Data File: \\ELABNSH05\TARGET\chem\voa5.i\092711V5.b\0919102.D
Report Date: 28-Sep-2011 07:20

Laboratory Name

Data file : \\ELABNSH05\TARGET\chem\voa5.i\092711V5.b\0919102.D
Lab Smp Id: 1109191-02
Inj Date : 27-SEP-2011 11:21 MS Autotune Date: 28-JUL-1998 05:19
Operator : ADM Inst ID: voa5.i
Smp Info : 1109191-02;;;;;
Misc Info : ;;;;;8260.sub;
Comment :
Method : \\ELABNSH05\TARGET\chem\voa5.i\092711V5.b\VS5SUR.m
Meth Date : 28-Sep-2011 07:17 amonteiro Quant Type: ISTD
Cal Date : 22-SEP-2011 14:24 Cal File: 0922CAL1.D
Als bottle: 10
Dil Factor: 1.00000
Integrator: HP RTE Compound Sublist: 8260.sub
Target Version: 4.04
Processing Host: TARGET02_VM

Concentration Formula: Amt * DF * 5*Uf/(Ws*(Solids/100))

Name	Value	Description
DF	1.000	Dilution Factor
Uf	1.000	unit correction factor
Ws	5.000	Weight of sample extracted (g)
Solids	100.000	Percent Solids

MG 9/28/11

9-29-11

Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS ON-COLUMN (ug/Kg)	FINAL (ug/Kg)
* 55 Fluorobenzene	96	7.865	7.864	(1.000)	734000	30.0000	
10 Acetonitrile	41	3.758	3.767	(0.478)	19366	18.3532	18.35(Q)
9 Acetone	43	3.689	3.688	(0.469)	106540	47.0120	47.01
20 Methylene chloride	84	4.654	4.643	(0.592)	58611	6.86383	6.864
34 2-Butanone	43	6.141	6.141	(0.781)	25378	6.36424	6.364(a)
29 Hexane	57	5.905	5.904	(0.751)	13072	1.01756	1.018
$ 44 Dibromofluoromethane	111	6.831	6.840	(0.869)	212206	33.7585	33.76
51 Cyclohexane	56	7.501	7.500	(0.954)	10144	0.71390	0.7139(a)
$ 48 1,2-Dichloroethane-d4	102	7.333	7.332	(0.932)	41265	31.9503	31.95
53 Benzene	78	7.599	7.598	(0.966)	48433	1.71432	1.714
$ 71 Toluene-d8	98	9.569	9.568	(0.870)	651794	31.0452	31.04
74 Toluene	92	9.638	9.647	(0.876)	64443	4.25342	4.253
63 Methyl cyclohexane	83	8.742	8.741	(1.111)	13198	1.13451	1.134
* 82 Chlorobenzene-d5	82	10.998	10.997	(1.000)	319505	30.0000	
86 Ethylbenzene	91	11.185	11.184	(1.017)	54675	1.97038	1.970

Data File: \\ELABNSH05\TARGET\chem\voa5.i\092711V5.b\0919102.D
Report Date: 28-Sep-2011 07:20

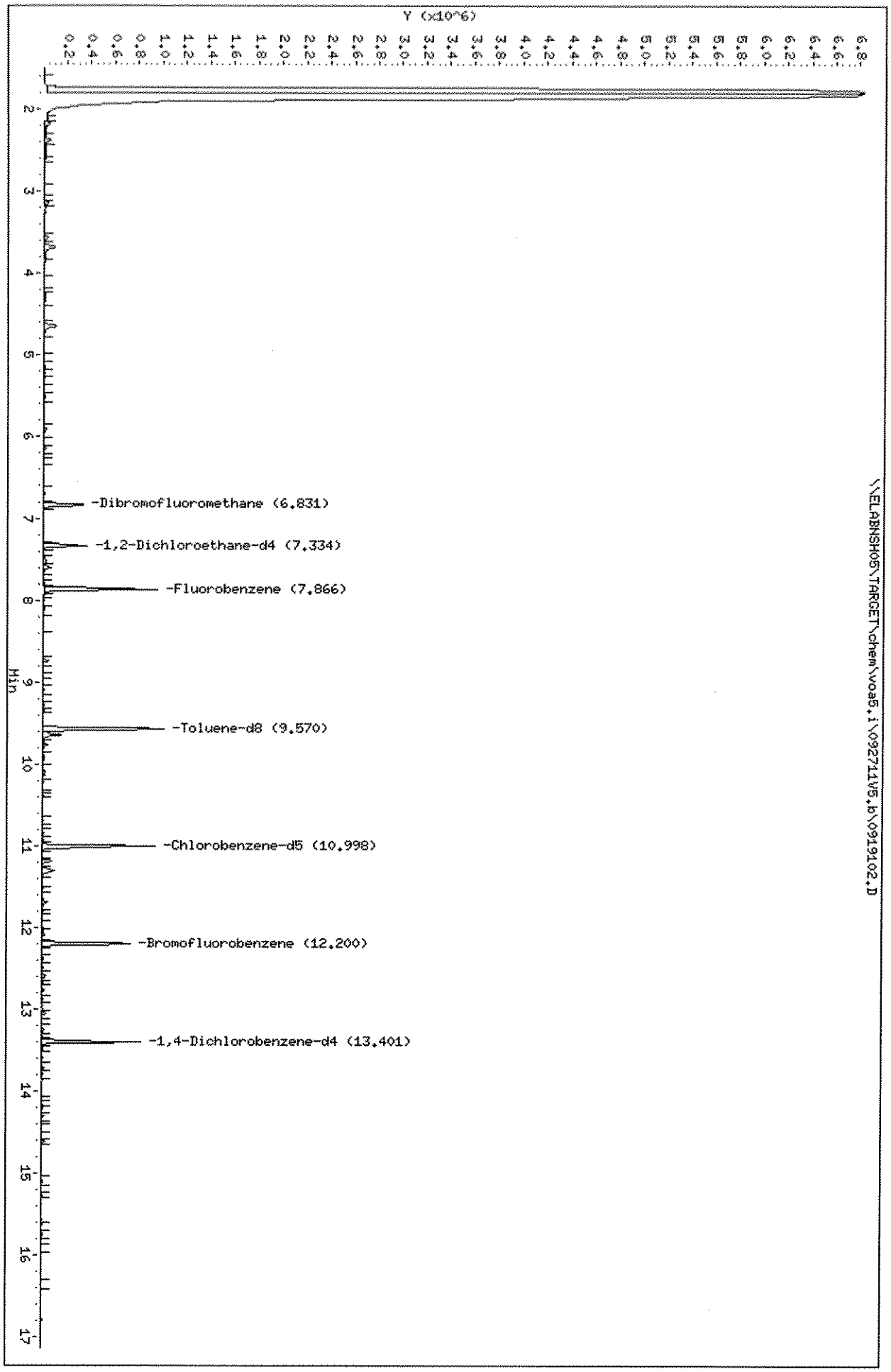
Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS ON-COLUMN (ug/Kg)	FINAL (ug/Kg)
87 m,p-Xylene	91	11.293	11.302	(1.027)	68105	3.54853	3.548
M 119 Xylene(total)	91				93815	4.84368	4.844
89 o-Xylene	91	11.687	11.696	(1.063)	25710	1.29515	1.295
$ 97 Bromofluorobenzene	95	12.199	12.199	(1.109)	269259	30.3891	30.39
102 1,3,5-Trimethylbenzene	105	12.672	12.671	(0.946)	5831	0.40708	0.4071(a)
106 1,2,4-Trimethylbenzene	105	13.046	13.046	(0.974)	15191	1.14591	1.146
* 110 1,4-Dichlorobenzene-d4	152	13.401	13.400	(1.000)	188125	30.0000	(Q)

QC Flag Legend

a - Target compound detected but, quantitated amount Below Limit Of Quantitation(BLOQ).
Q - Qualifier signal failed the ratio test.

Data File: \\ELABNSH05\TARGET\chem\voa5.i\092711V5.b\091910 2.D
Date : 27-SEP-2011 11:21
Client ID:
Sample Info: 1109191-02;;;;;
Column phase: RTX-VRX

Instrument: voa5.i
Operator: ADM
Column diameter: 0.25



Data File: \\ELABNSH05\TARGET\chem\voa5.i\092711V5.b\0919102.D

Date : 27-SEP-2011 11:21

Client ID:

Instrument: voa5.i

Sample Info: 1109191-02;;;;;

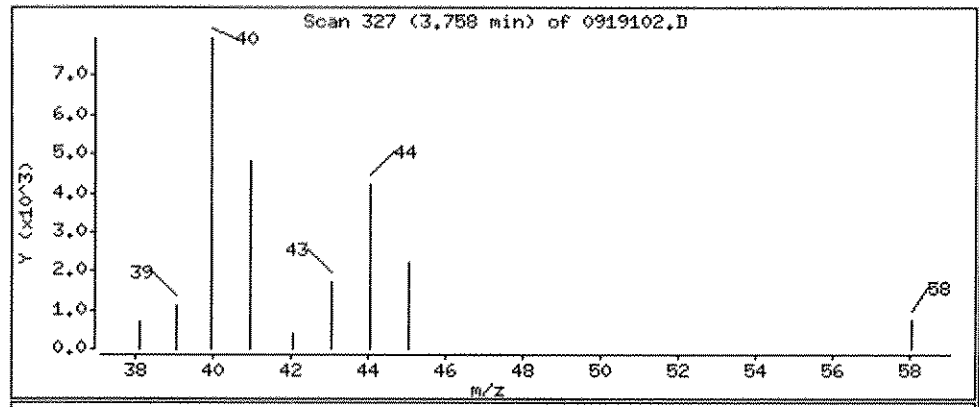
Operator: ADM

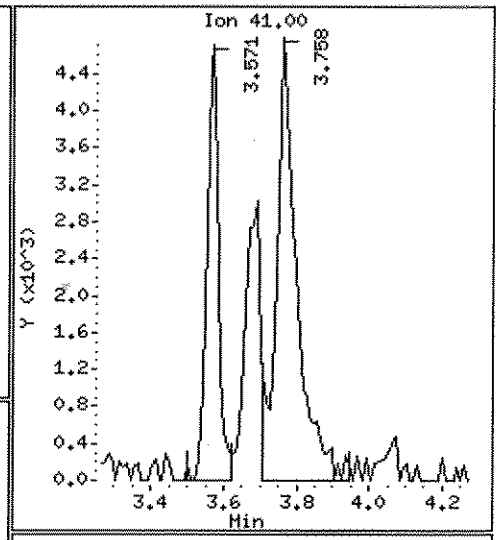
Column phase: RTX-VRX

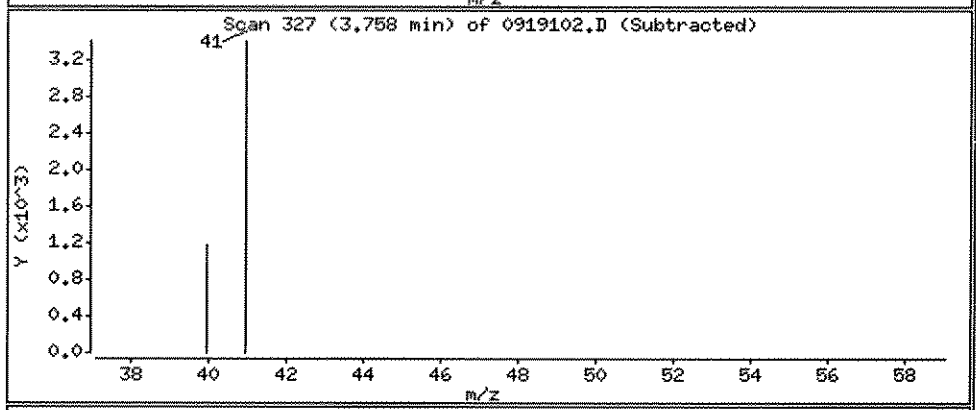
Column diameter: 0.25

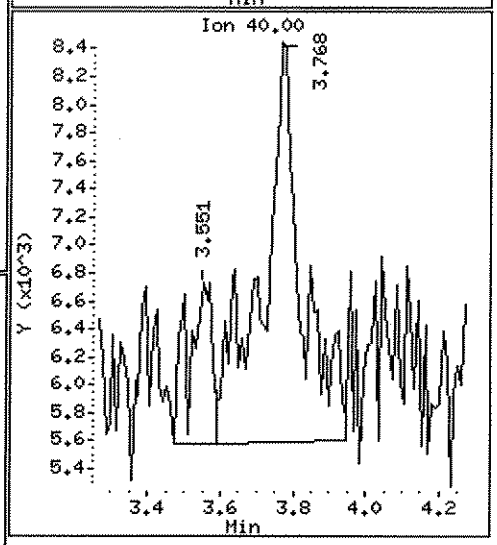
10 Acetonitrile

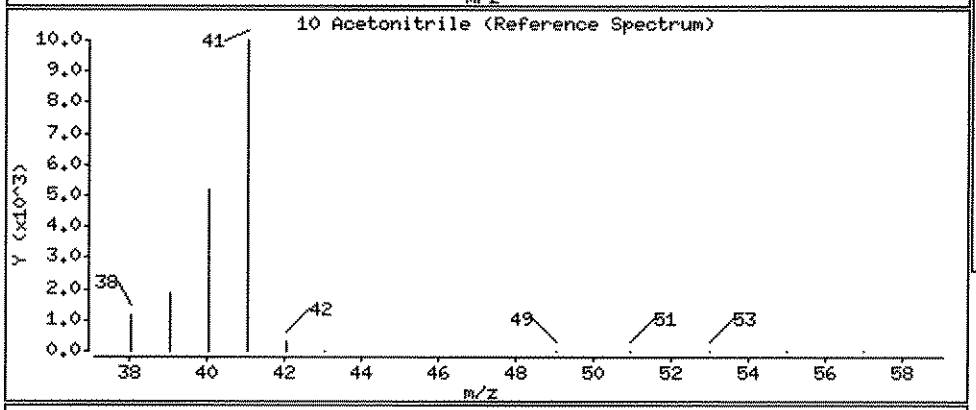
Concentration: 18.35 ug/Kg

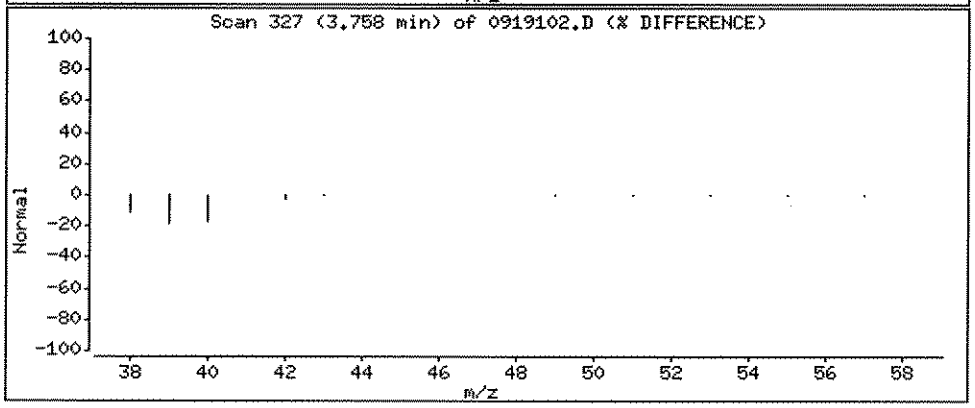












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Date : 27-SEP-2011 11:21

Client ID:

Instrument: voa5.i

Sample Info: 1109191-02;;;;;

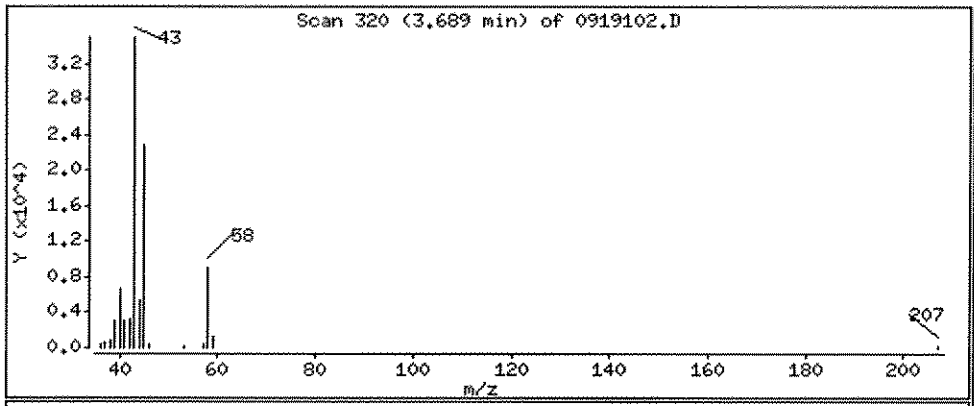
Operator: ADM

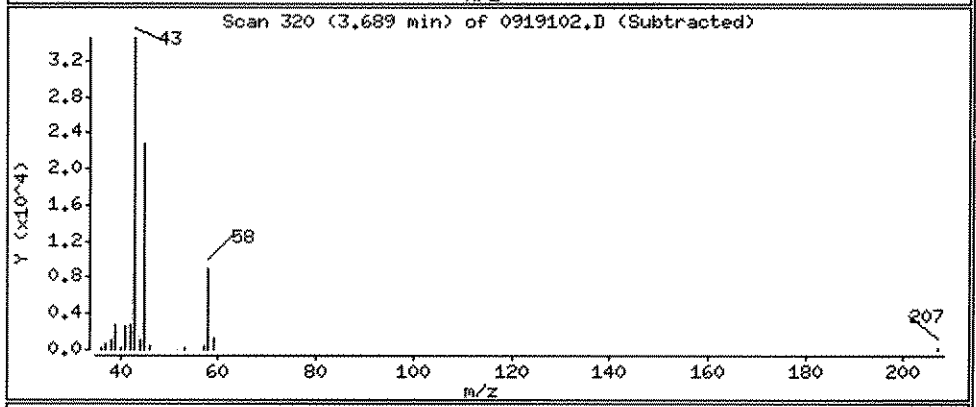
Column phase: RTX-VRX

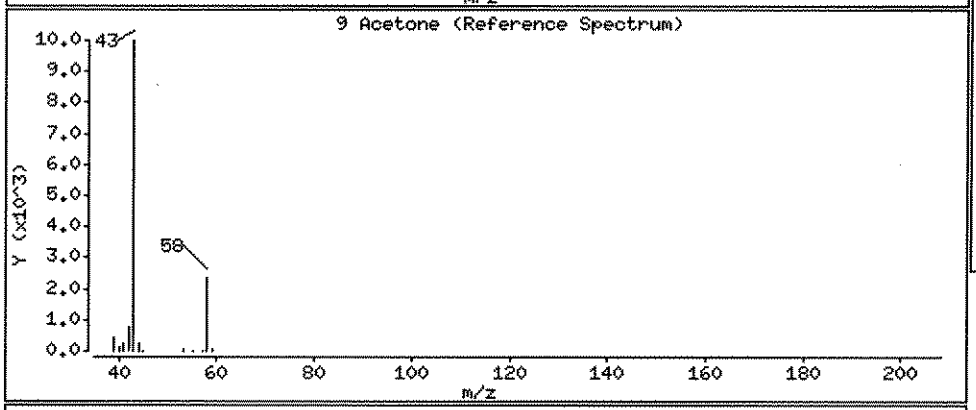
Column diameter: 0.25

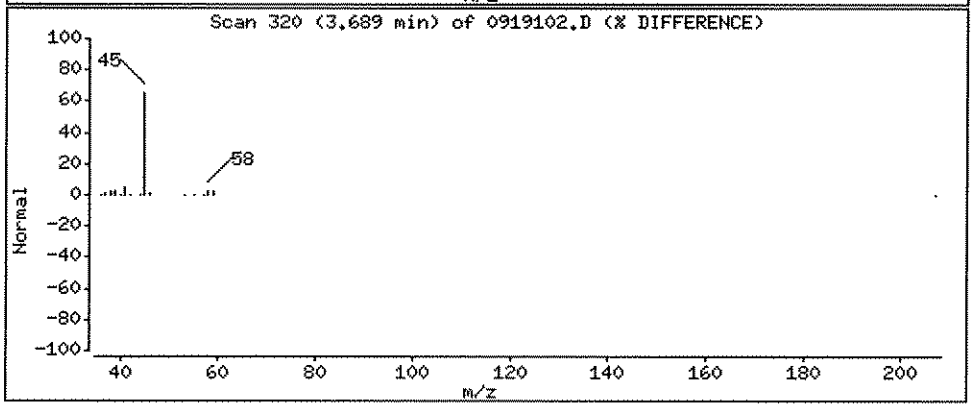
9 Acetone

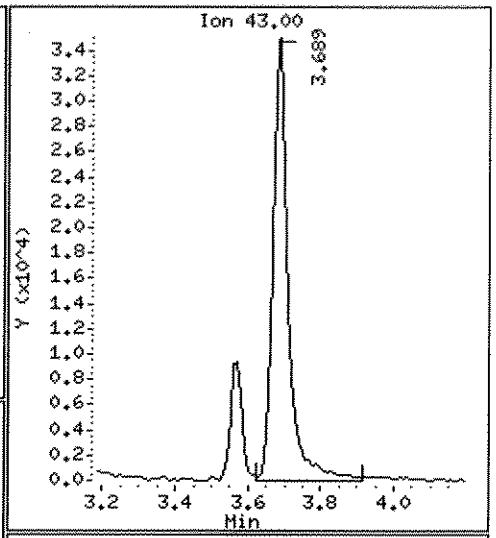
Concentration: 47.01 ug/Kg

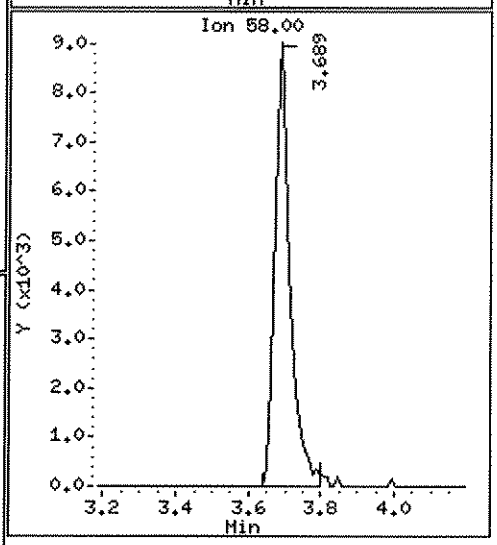












Data File: \\ELABNSH05\TARGET\chem\voa5.i\092711V5.b\0919102.D

Date : 27-SEP-2011 11:21

Client ID:

Instrument: voa5.i

Sample Info: 1109191-02;;;;;

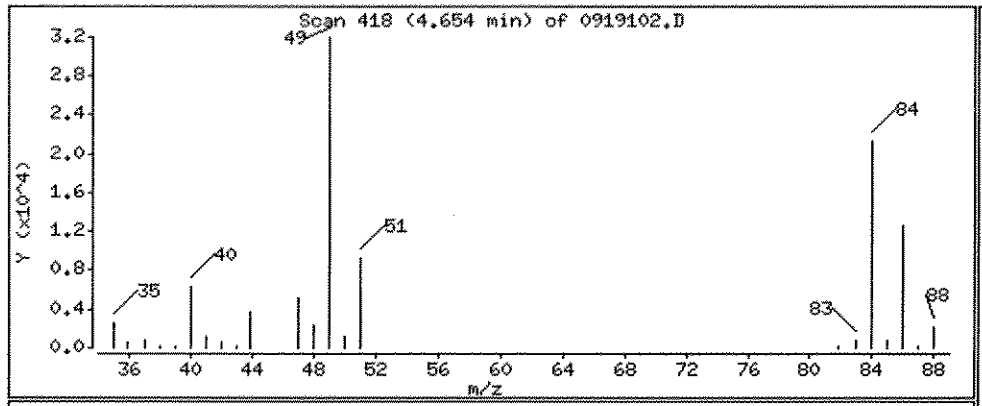
Operator: ADM

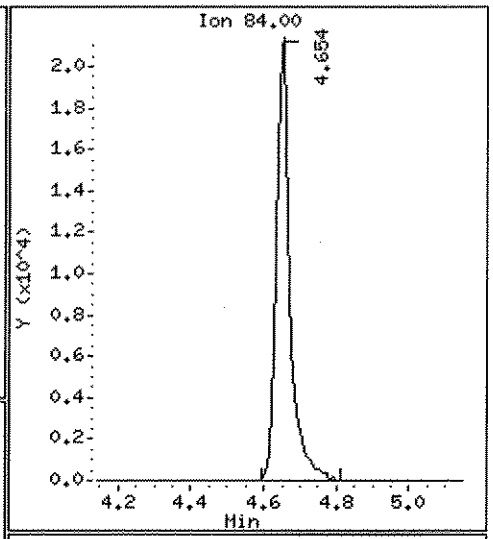
Column phase: RTX-VRX

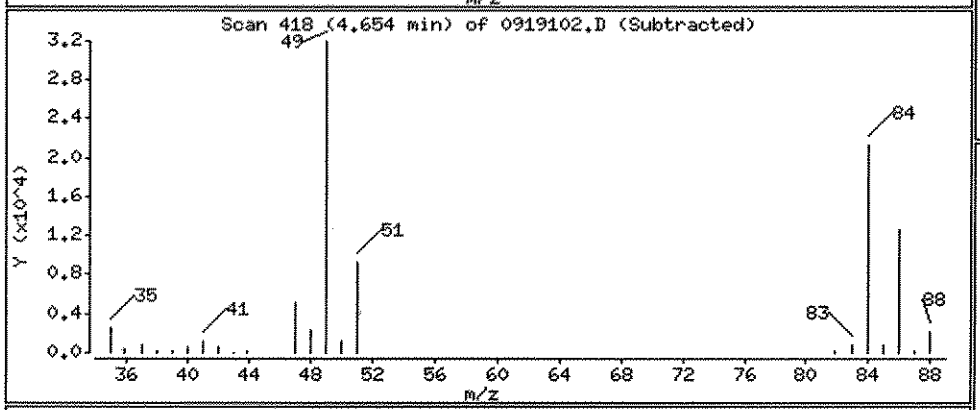
Column diameter: 0.25

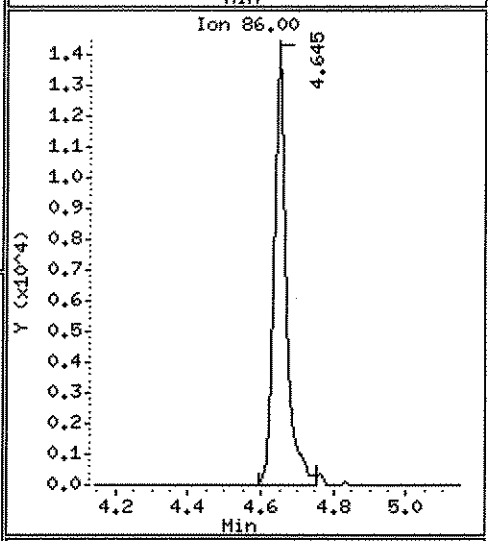
20 Methylene chloride

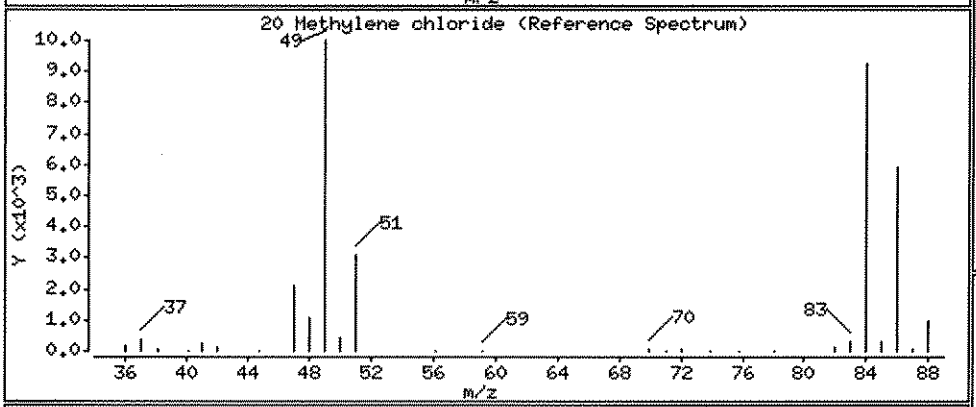
Concentration: 6.864 ug/Kg

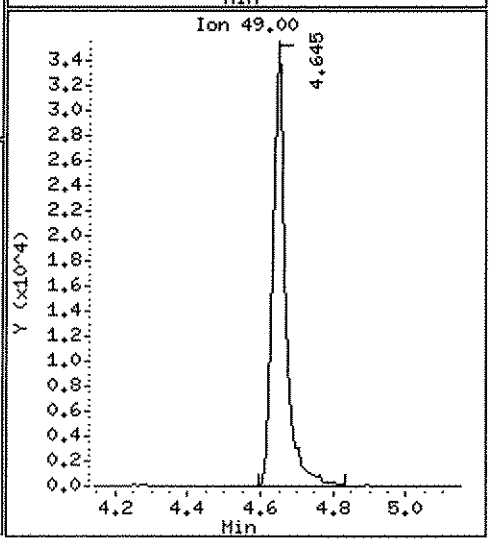


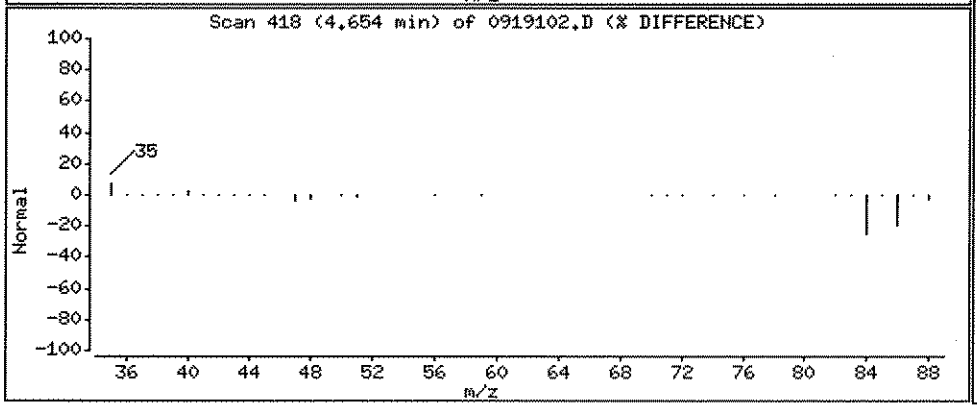












Data File: \\ELABNSH05\TARGET\chem\voa5.i\092711V5.b\0919102.D

Date : 27-SEP-2011 11:21

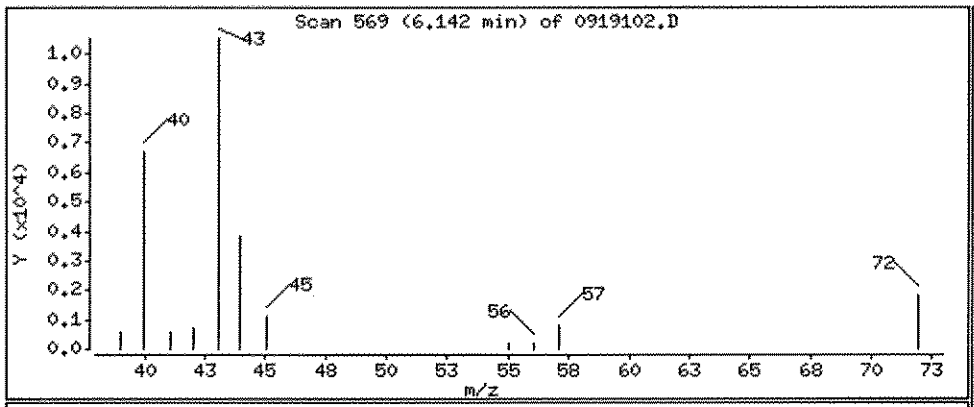
Client ID: Instrument: voa5.i

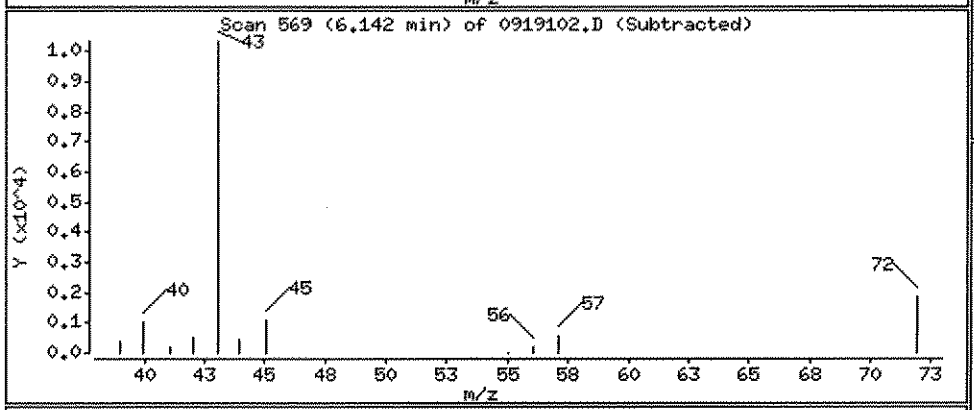
Sample Info: 1109191-02;;;;;

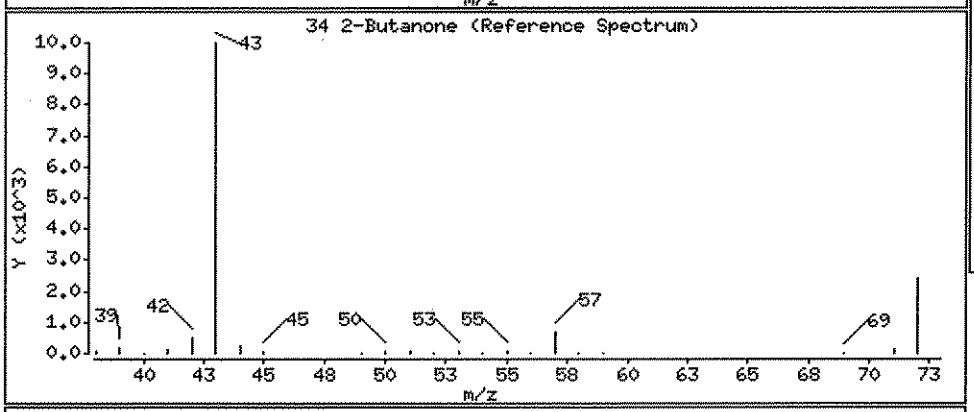
Operator: ADM

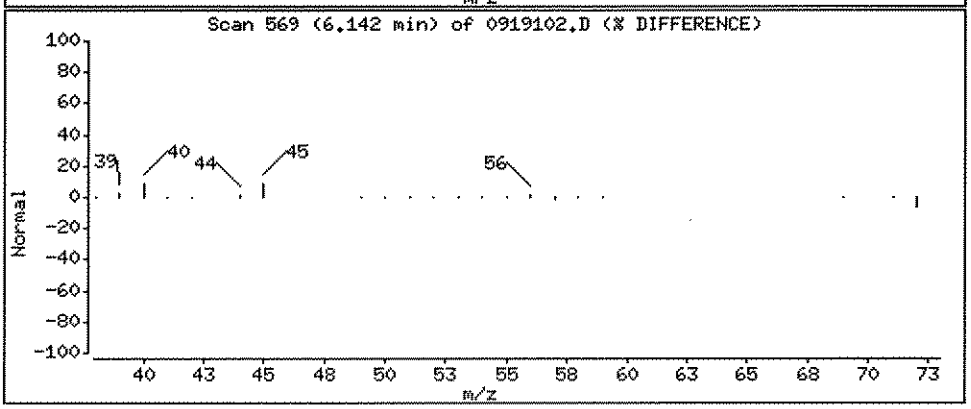
Column phase: RTX-VRX Column diameter: 0.25

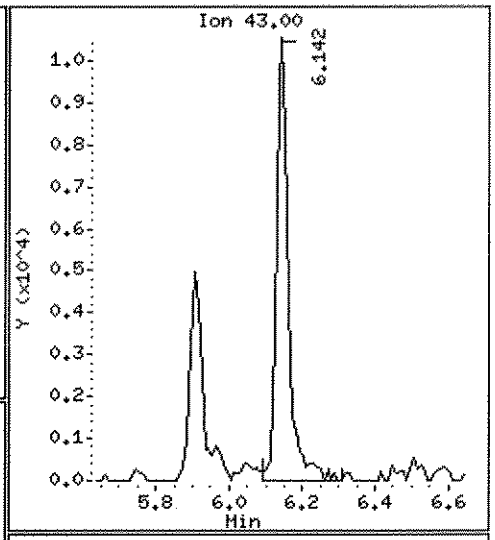
34 2-Butanone Concentration: 6.364 ug/Kg

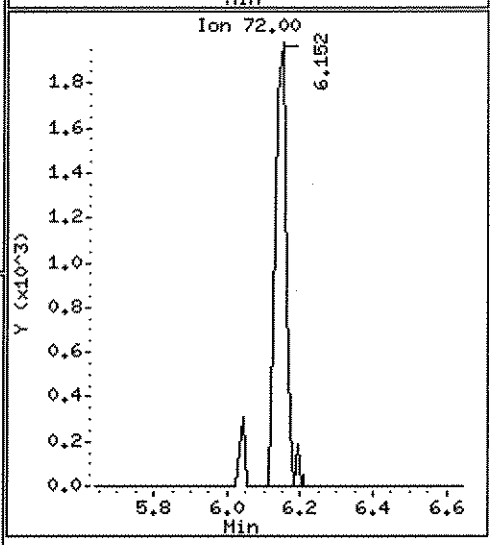












Data File: \\ELABNSH05\TARGET\chem\voa5.i\092711V5.b\0919102.D

Date : 27-SEP-2011 11:21

Client ID:

Instrument: voa5.i

Sample Info: 1109191-02;;;;;

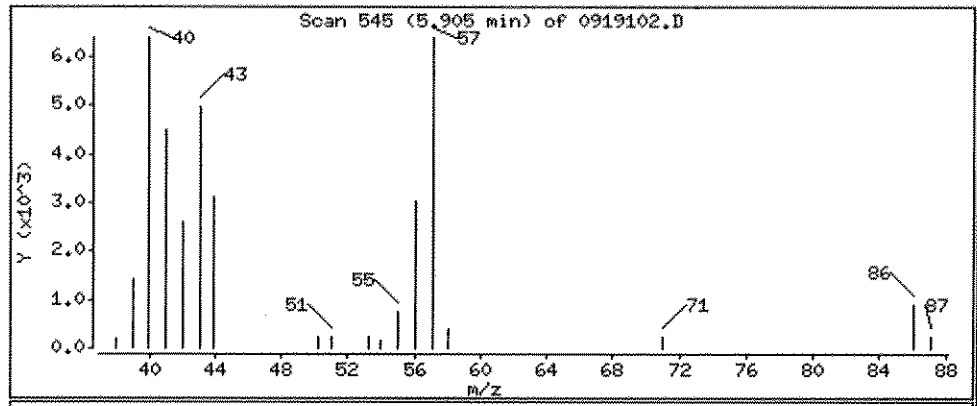
Operator: ADH

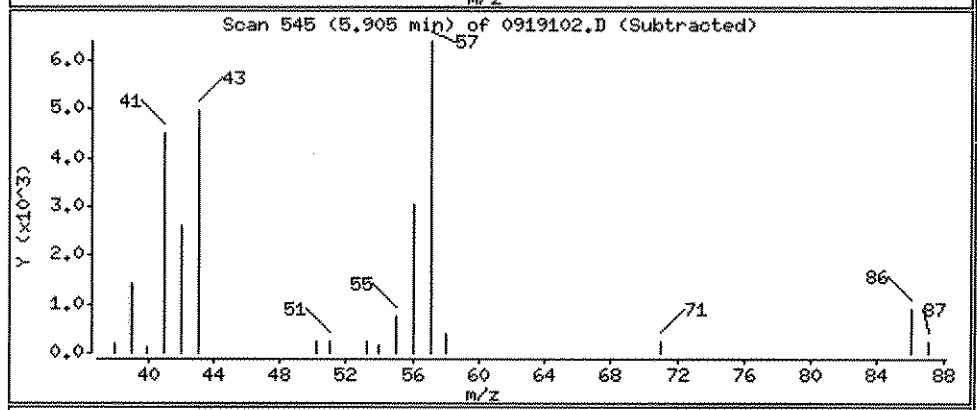
Column phase: RTX-VRX

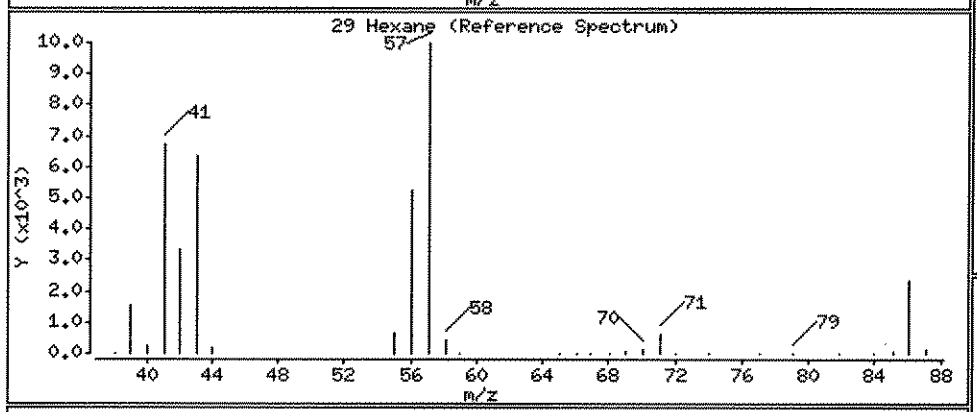
Column diameter: 0.25

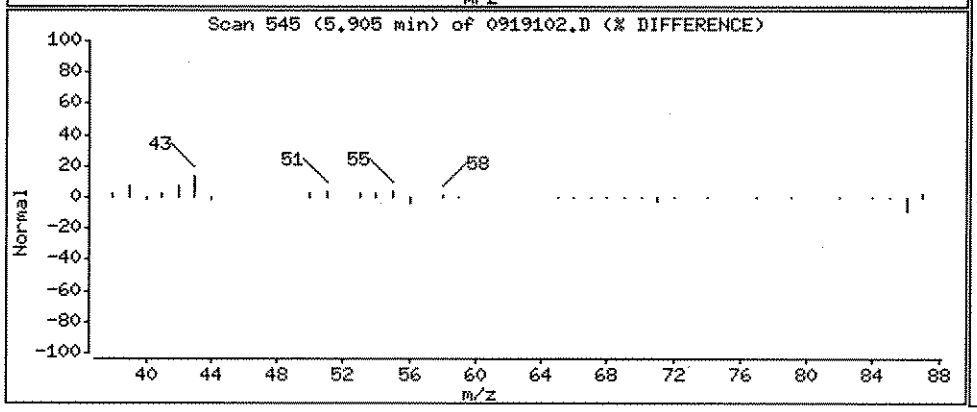
29 Hexane

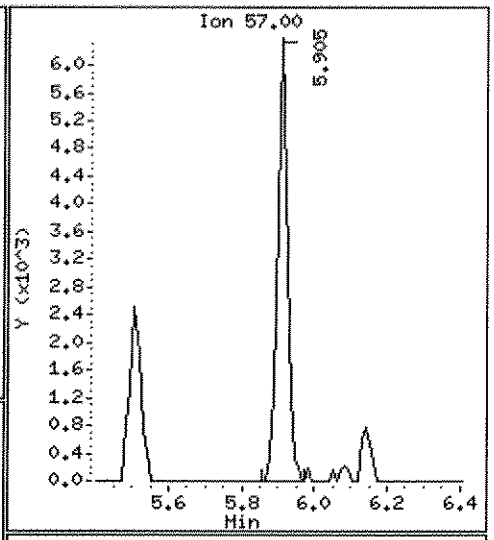
Concentration: 1.018 ug/Kg

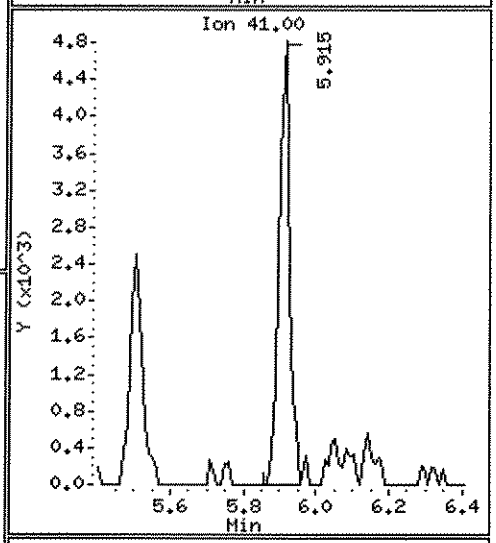


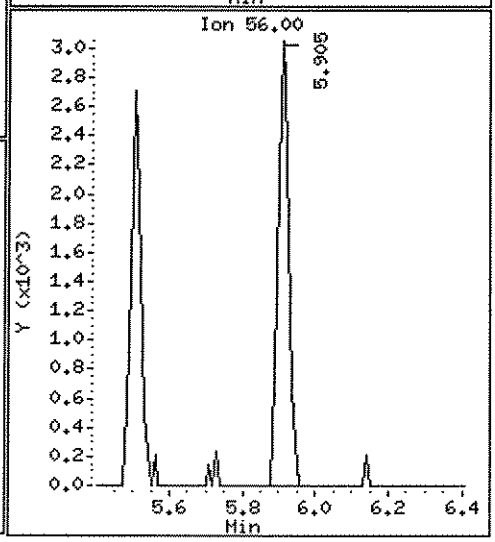












Data File: \\ELABNSH05\TARGET\chem\voa5.i\092711V5.b\0919102.D

Date : 27-SEP-2011 11:21

Client ID:

Instrument: voa5.i

Sample Info: 1109191-02;;;;;

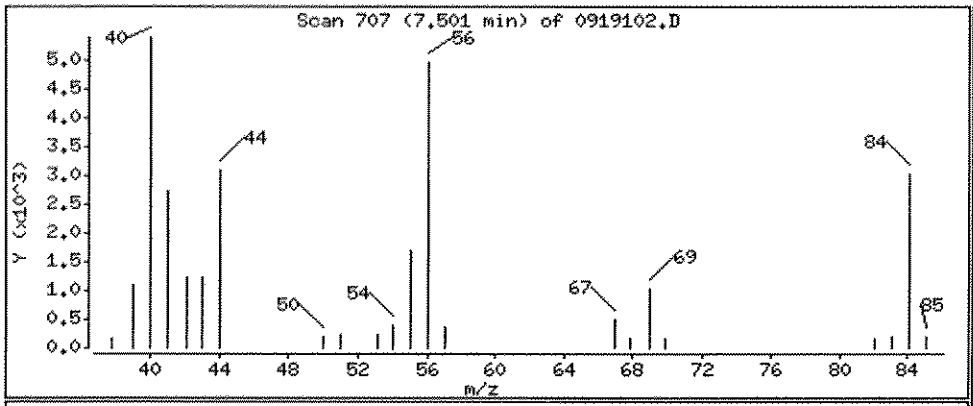
Operator: ADM

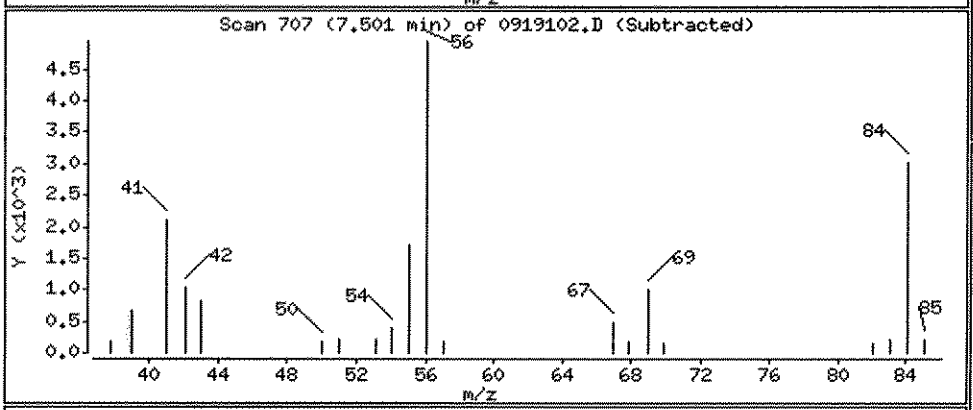
Column phase: RTX-VRX

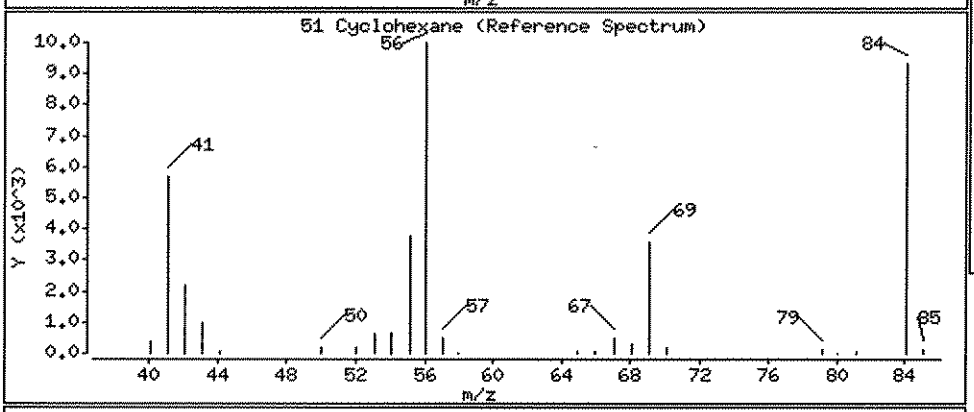
Column diameter: 0.25

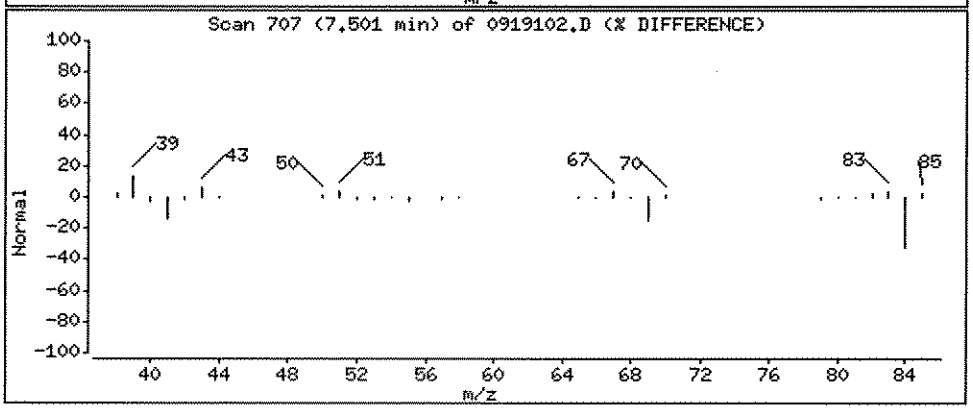
51 Cyclohexane

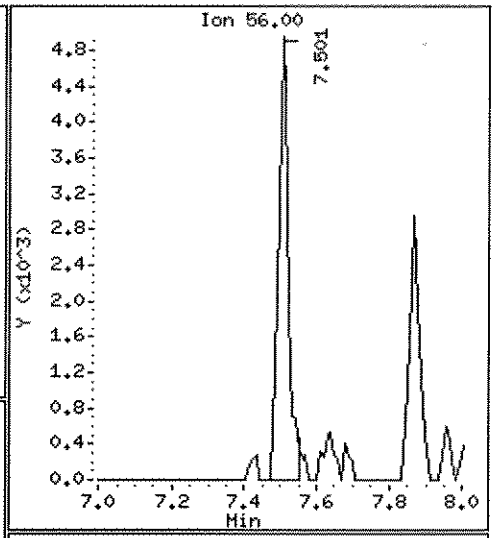
Concentration: 0.7139 ug/Kg

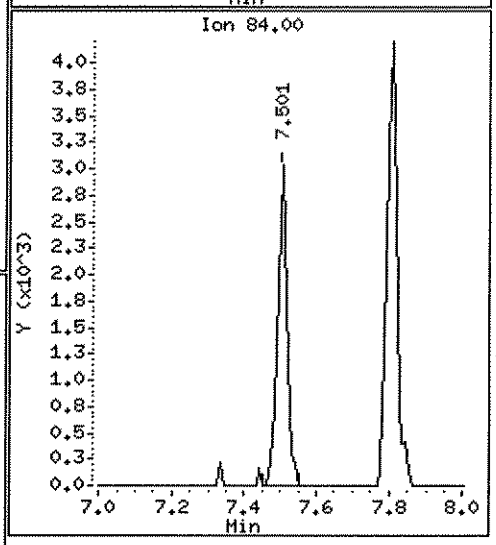












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Date : 27-SEP-2011 11:21

Client ID:

Instrument: voa5.i

Sample Info: 1109191-02;;;;;

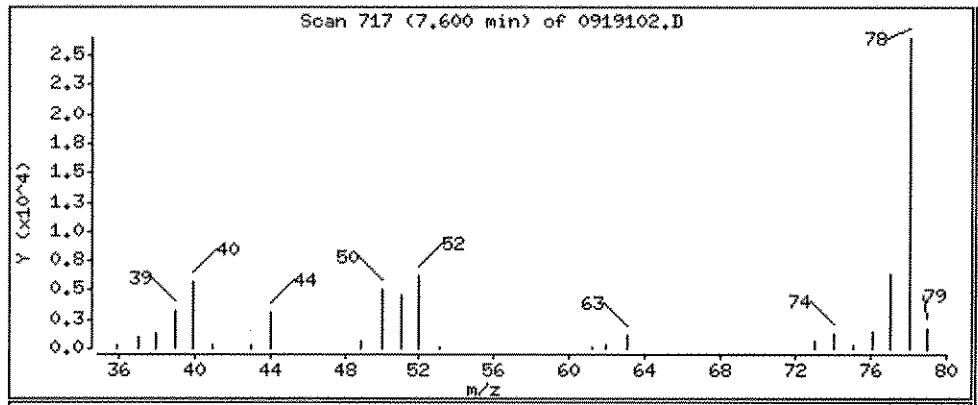
Operator: ADM

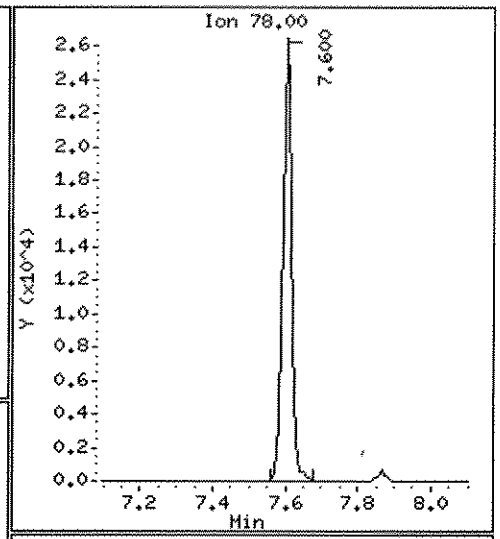
Column phase: RTX-VRX

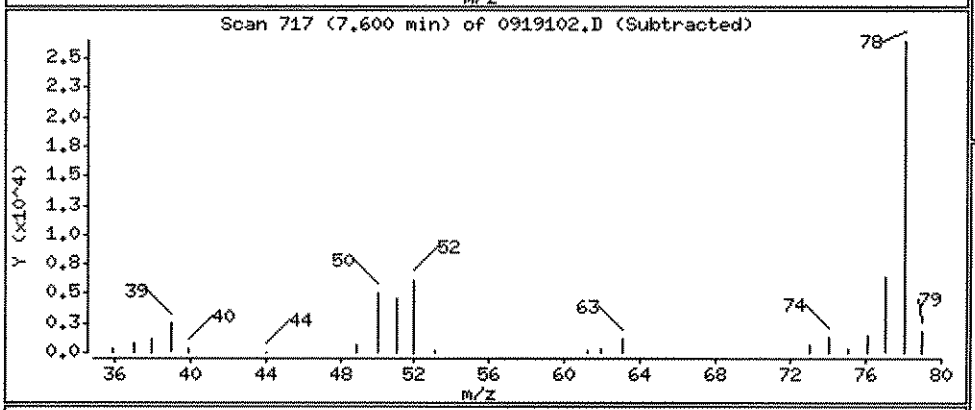
Column diameter: 0.25

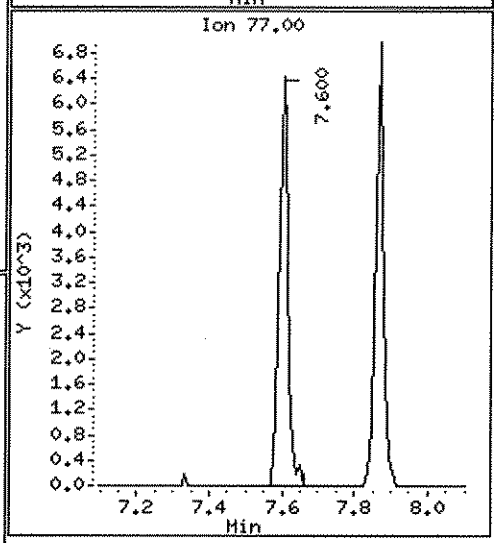
53 Benzene

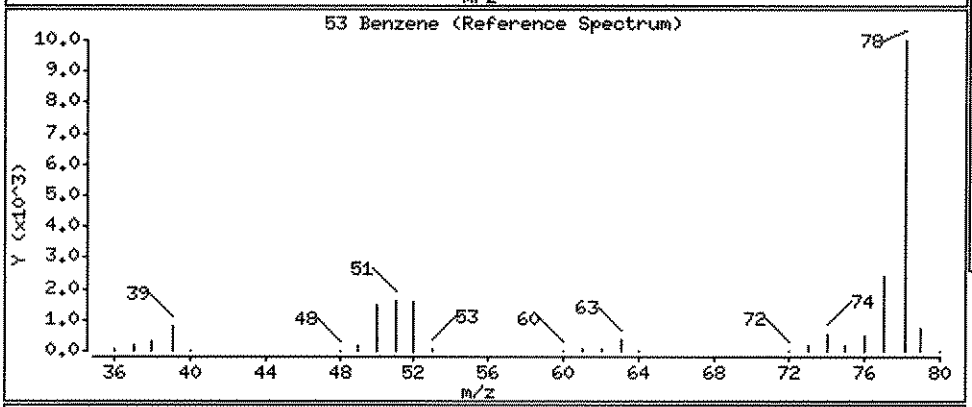
Concentration: 1.714 ug/Kg

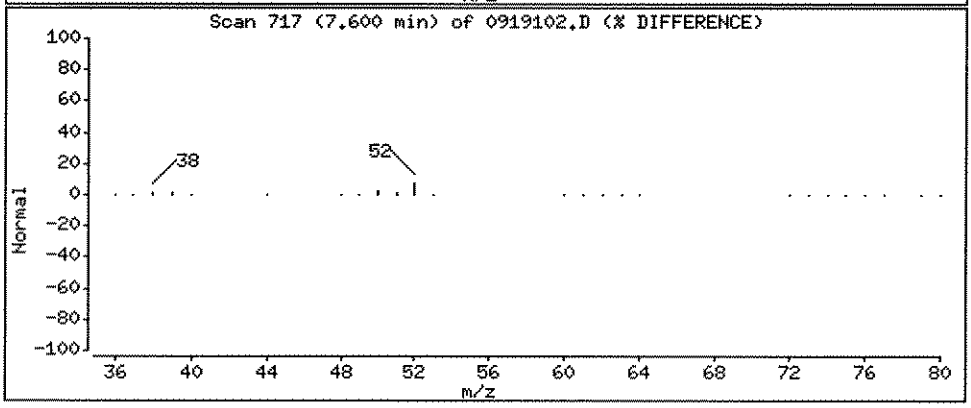












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Date : 27-SEP-2011 11:21

Client ID:

Instrument: voa5.i

Sample Info: 1109191-02;;;;;

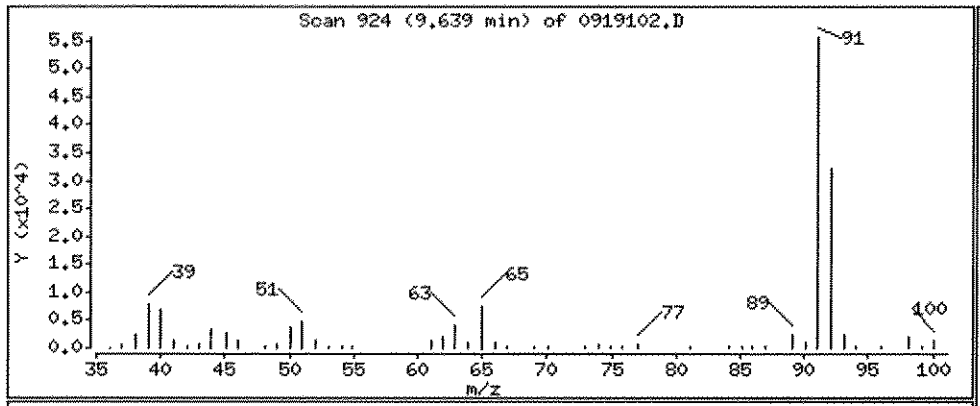
Operator: ADM

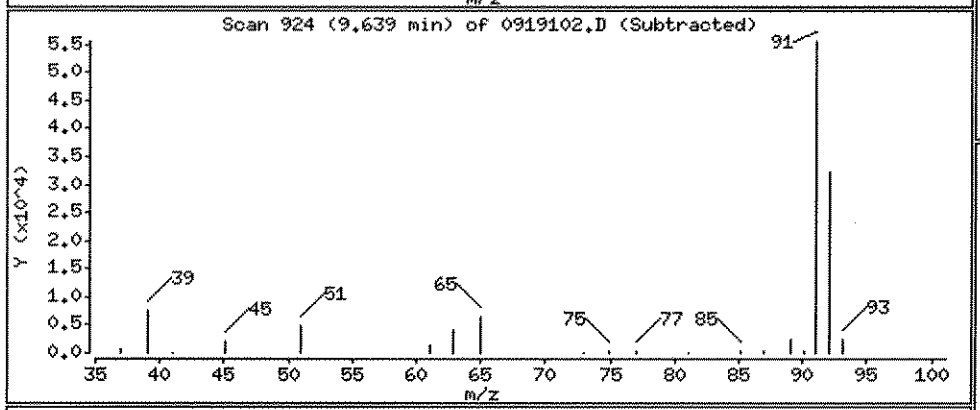
Column phase: RTX-VRX

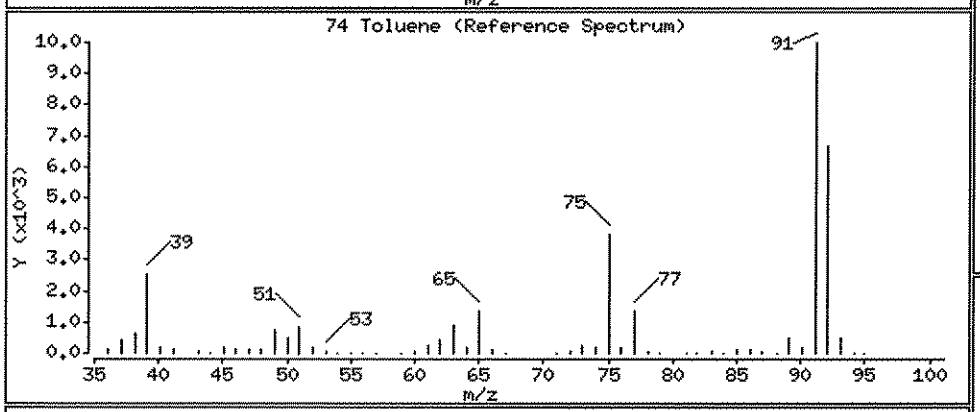
Column diameter: 0.25

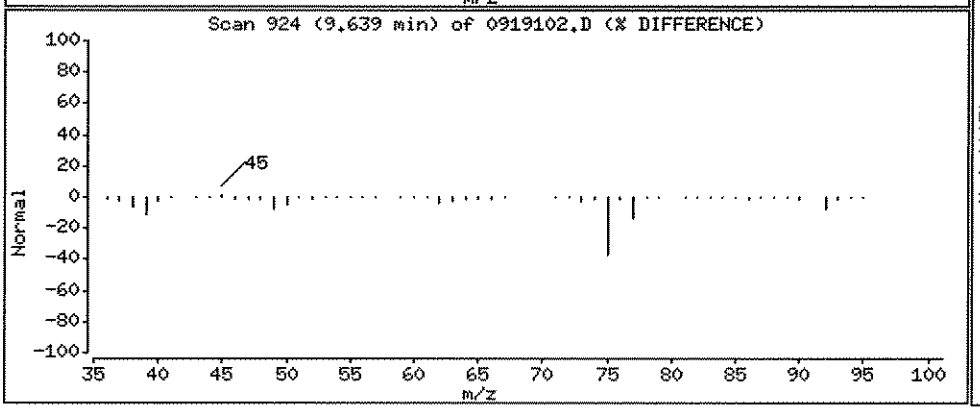
74 Toluene

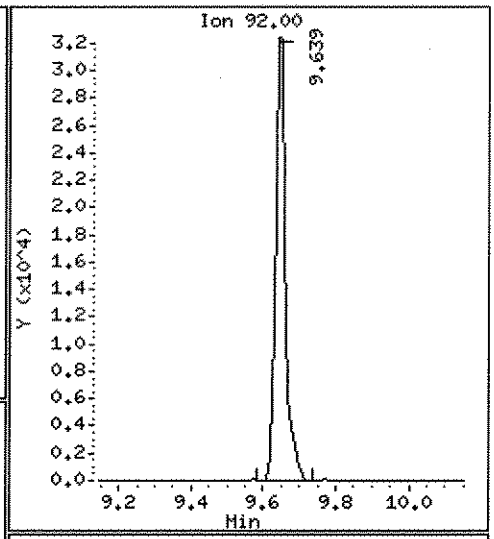
Concentration: 4.253 ug/Kg

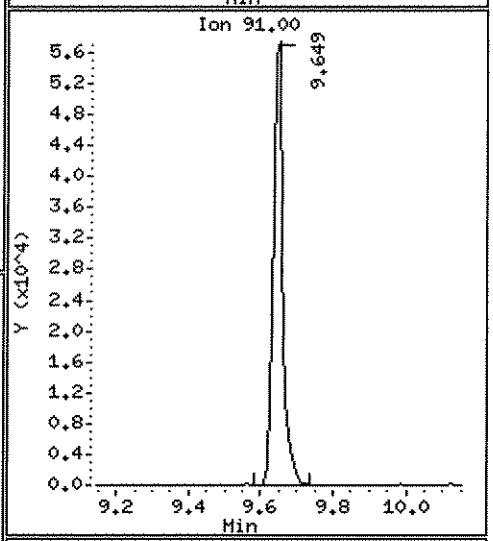


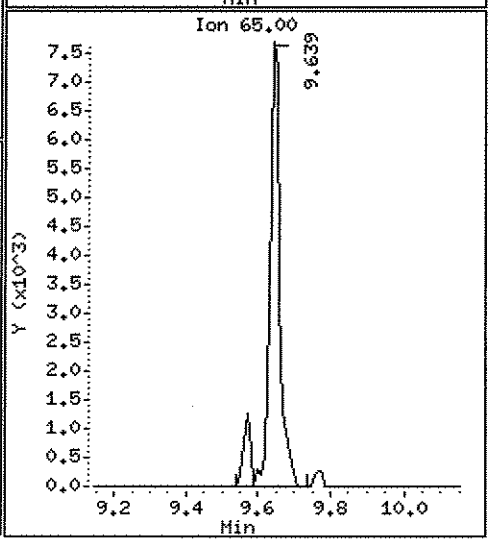












Data File: \\ELABNSH05\TARGET\chem\voa5.i\092711V5.b\0919102.D

Date : 27-SEP-2011 11:21

Client ID:

Instrument: voa5.i

Sample Info: 1109191-02;;;;;

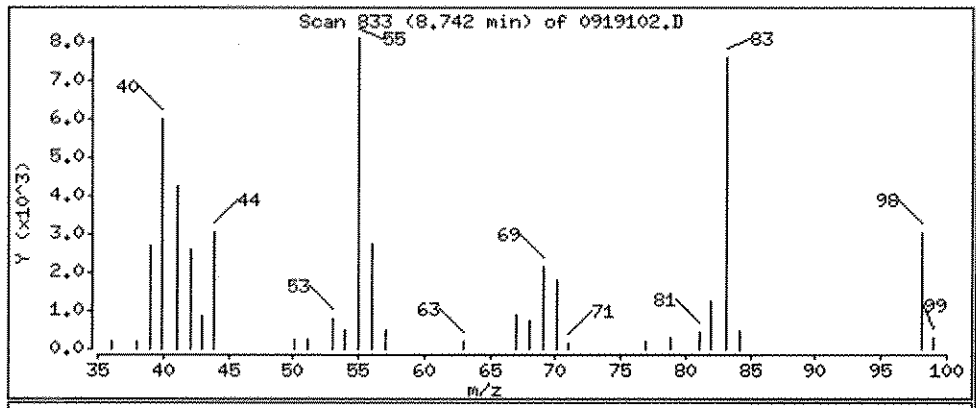
Operator: ADM

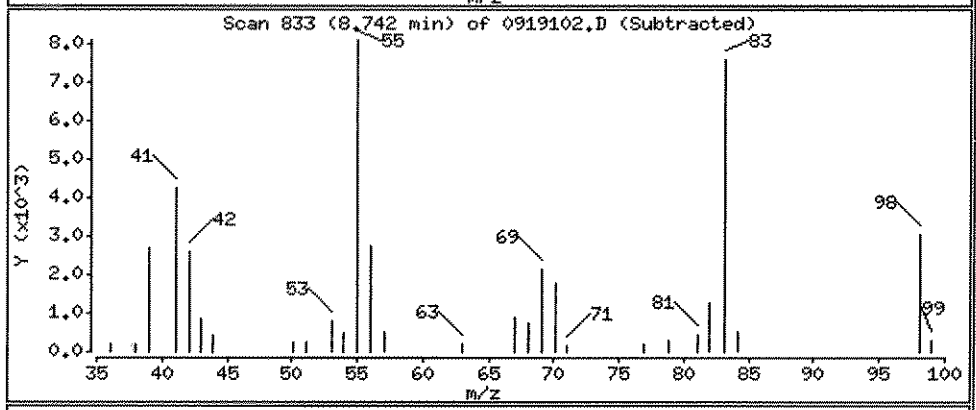
Column phase: RTX-VRX

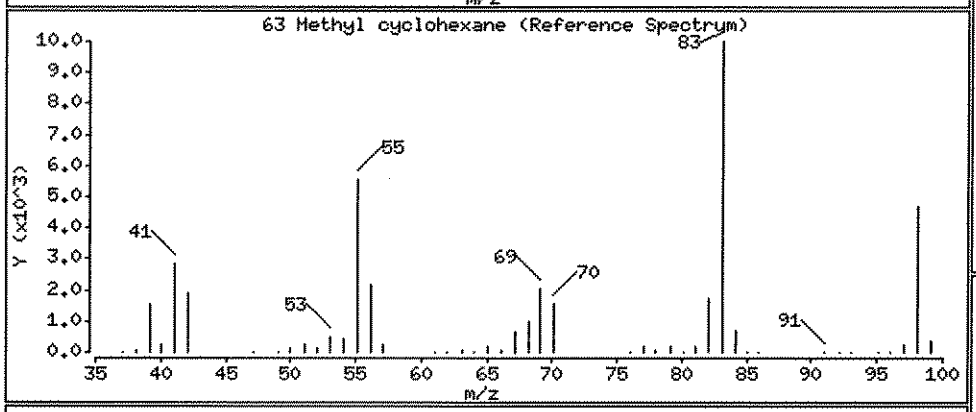
Column diameter: 0.25

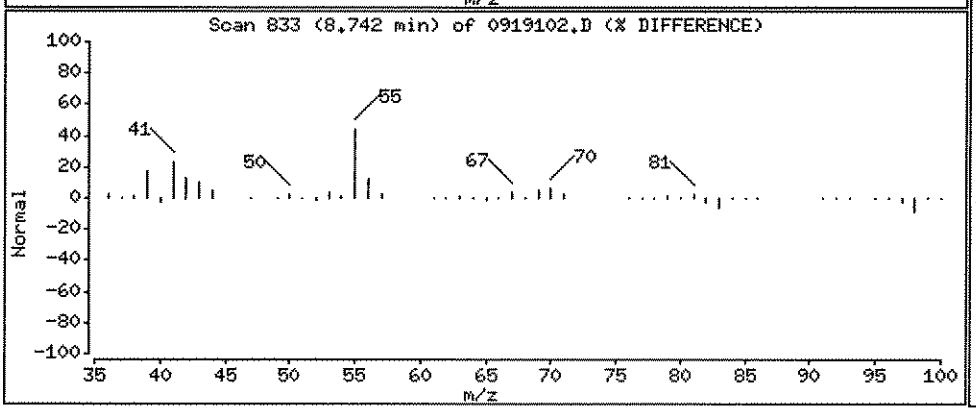
63 Methyl cyclohexane

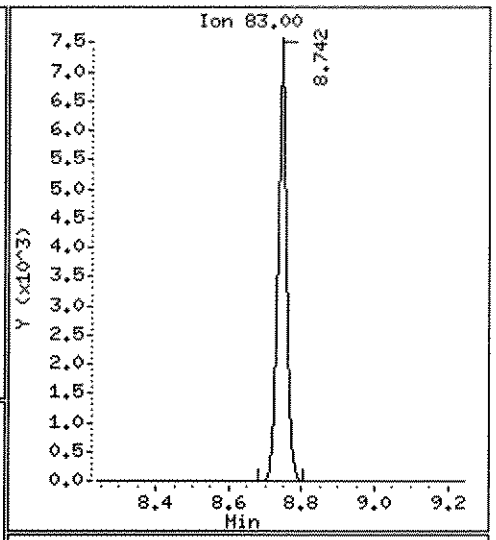
Concentration: 1.134 ug/Kg

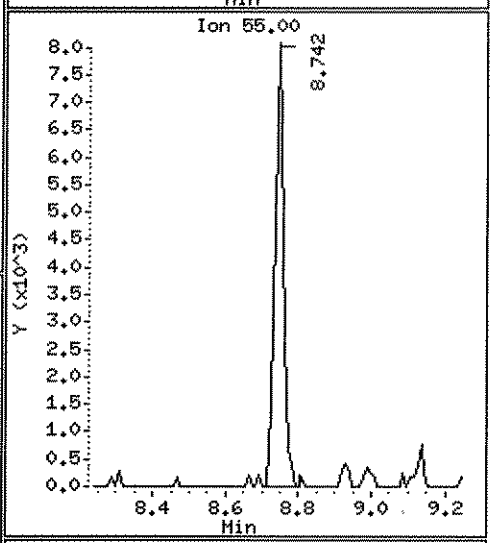


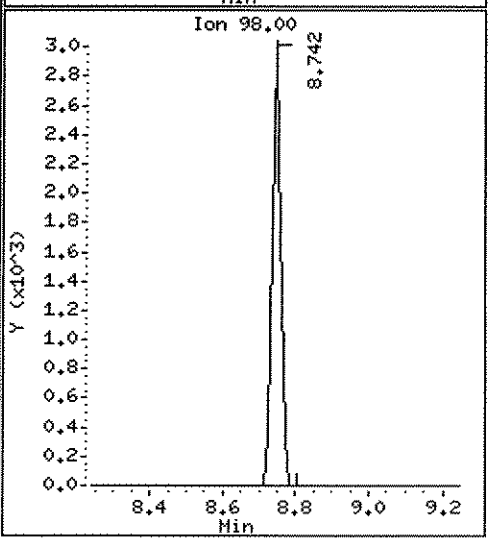












Data File: \\ELABNSH05\TARGET\chem\voa5.i\092711V5.b\0919102.D

Date : 27-SEP-2011 11:21

Client ID:

Instrument: voa5.i

Sample Info: 1109191-02;;;;;

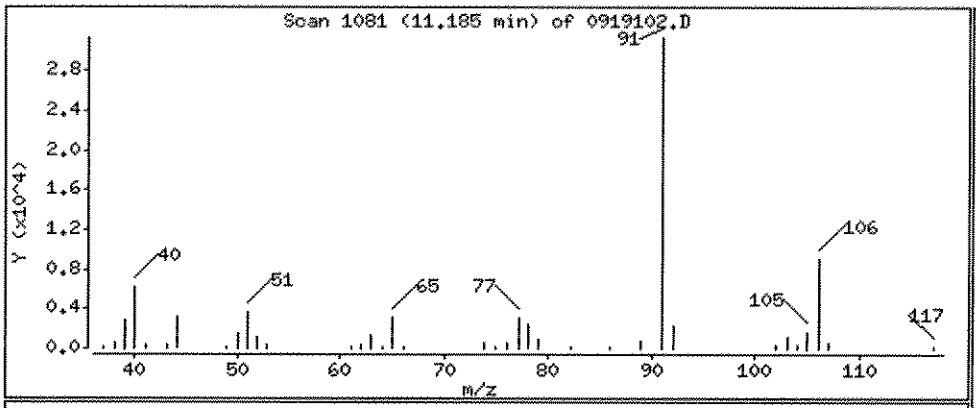
Operator: ADM

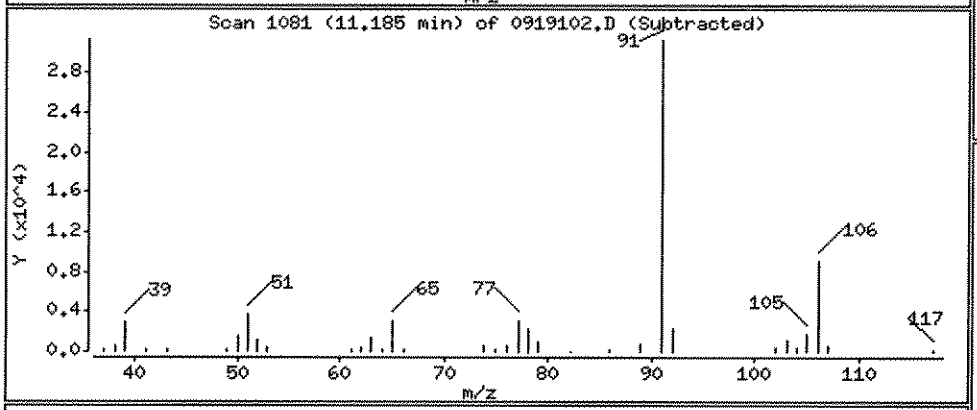
Column phase: RTX-VRX

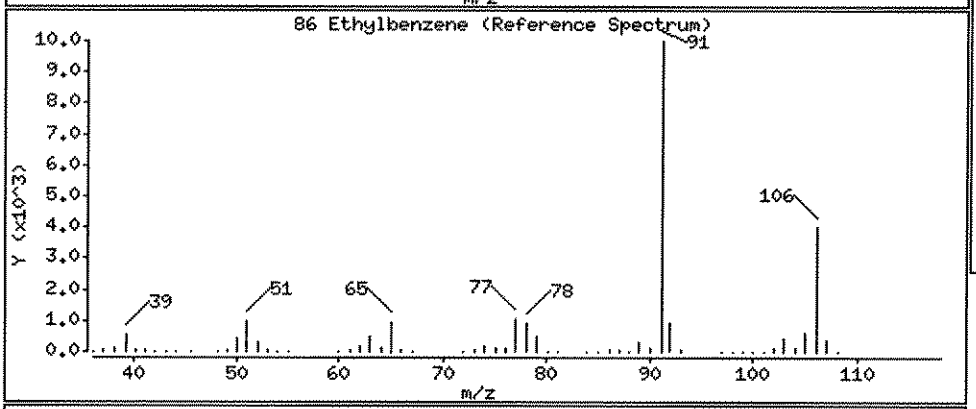
Column diameter: 0.25

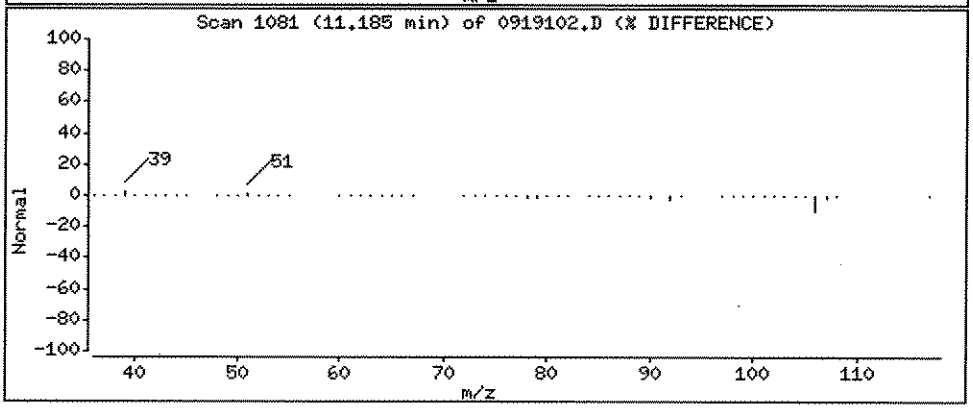
86 Ethylbenzene

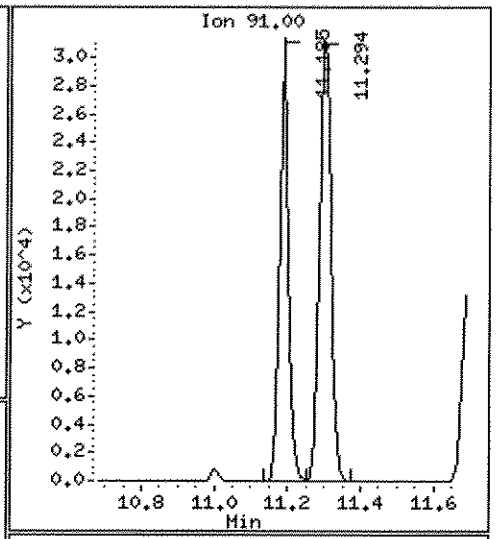
Concentration: 1.970 ug/Kg

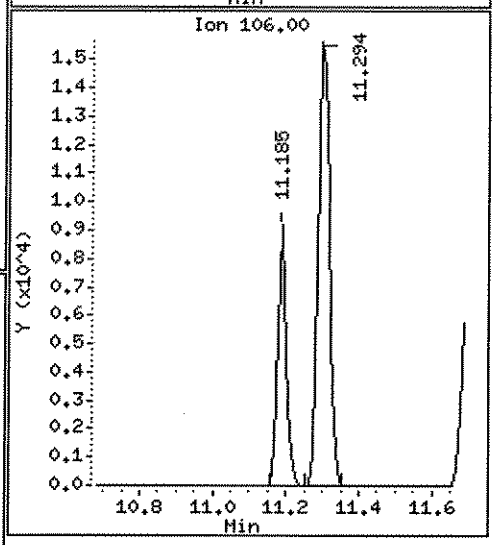












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Date : 27-SEP-2011 11:21

Client ID:

Instrument: voa5.i

Sample Info: 1109191-02;;;;;

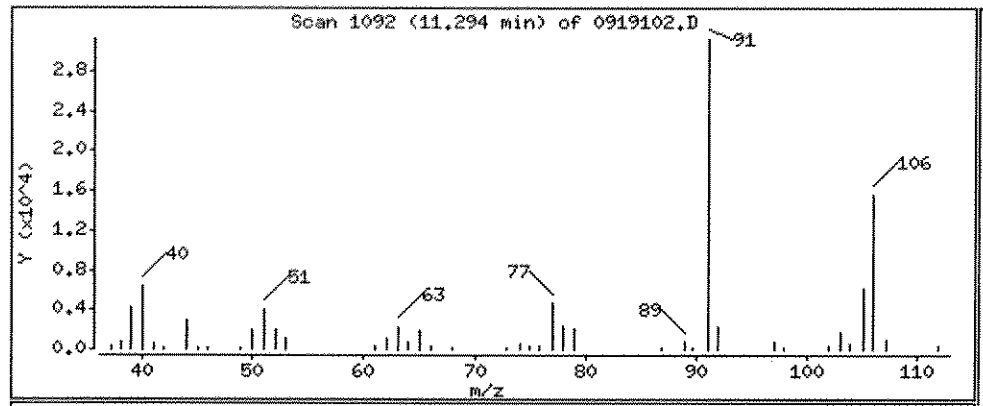
Operator: ADH

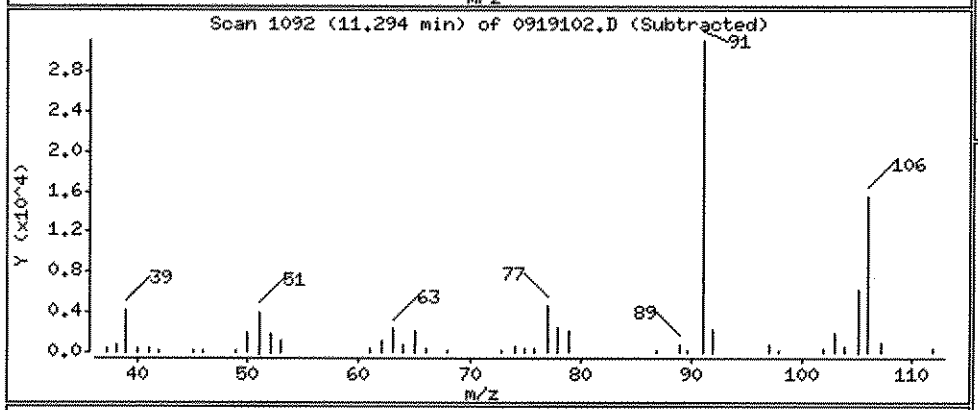
Column phase: RTX-VRX

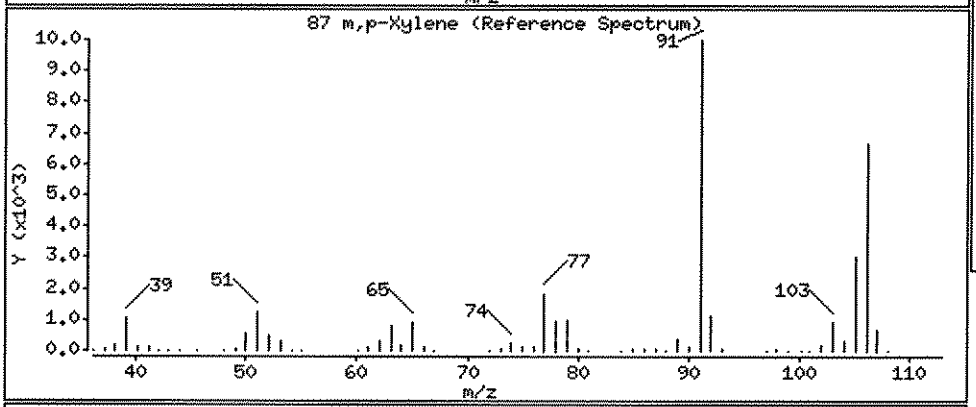
Column diameter: 0.25

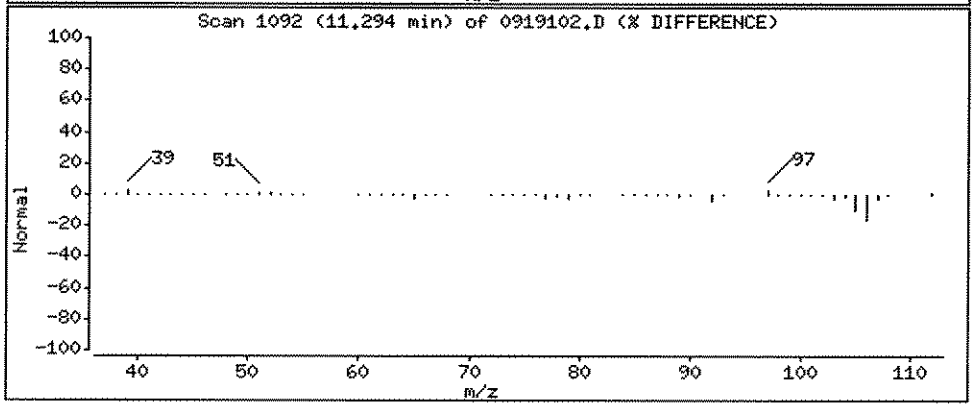
87 m,p-Xylene

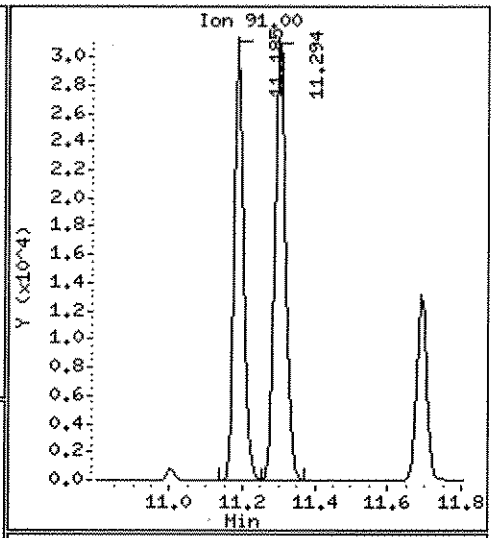
Concentration: 3.548 ug/Kg

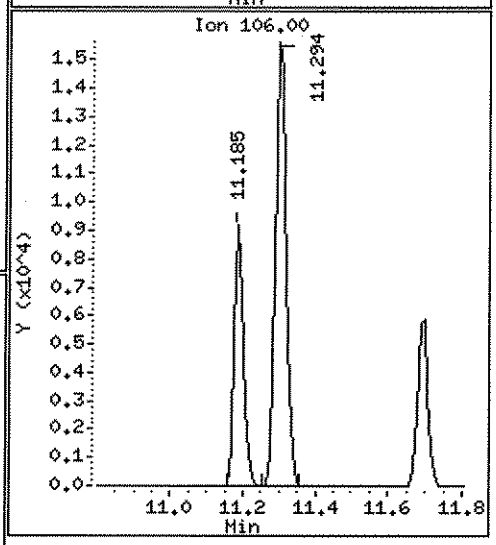












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Date : 27-SEP-2011 11:21

Client ID:

Instrument: voa5.i

Sample Info: 1109191-02;;;;;

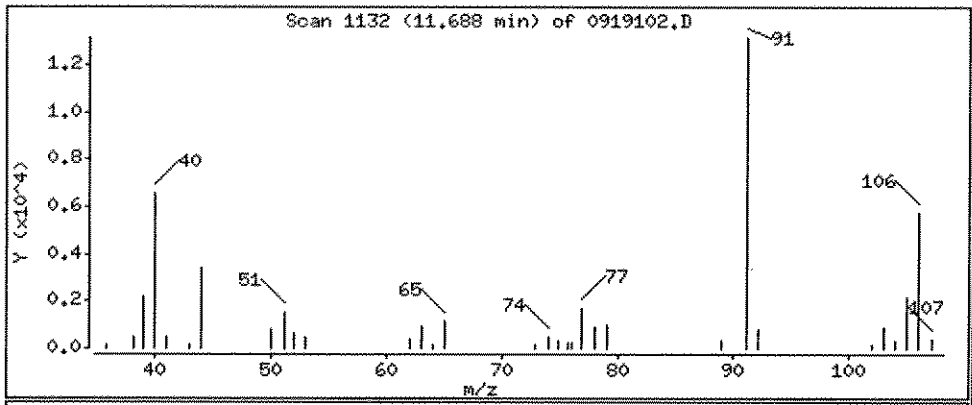
Operator: ADM

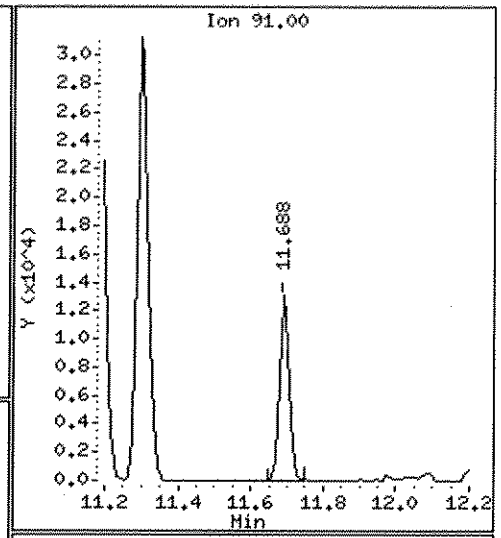
Column phase: RTX-VRX

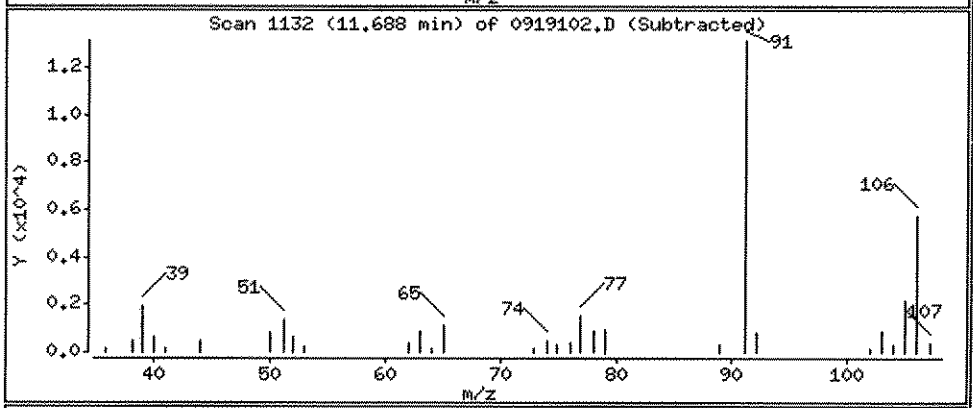
Column diameter: 0.25

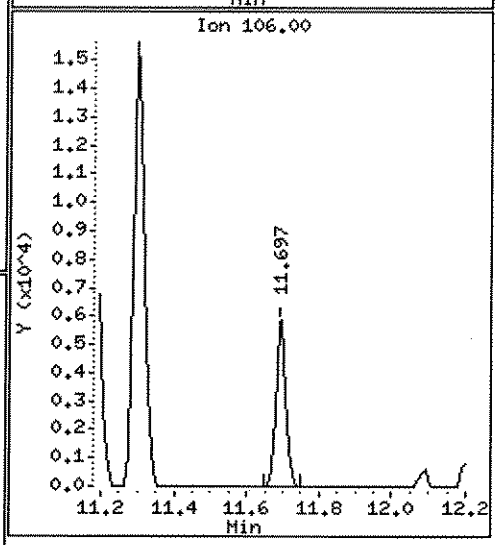
89 o-Xylene

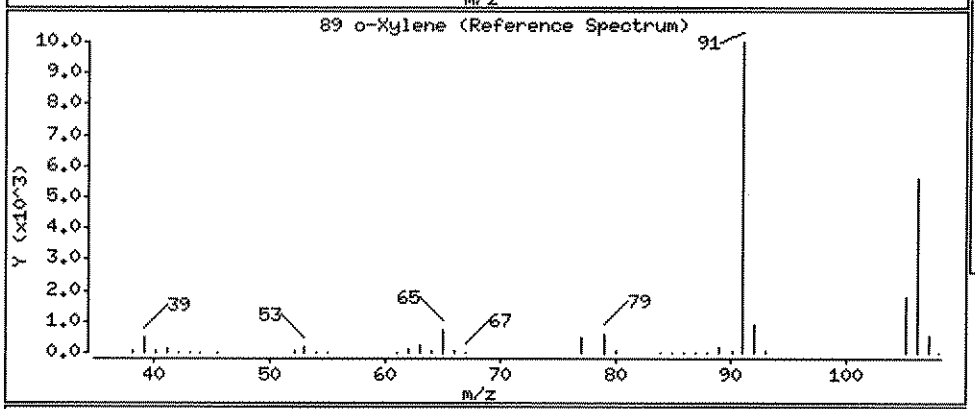
Concentration: 1.295 ug/Kg

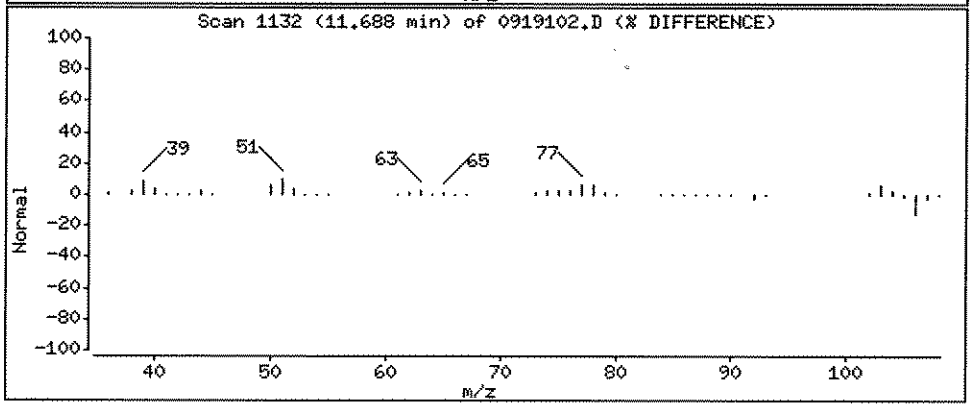












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Date : 27-SEP-2011 11:21

Client ID:

Instrument: voa5.i

Sample Info: 1109191-02;;;;;

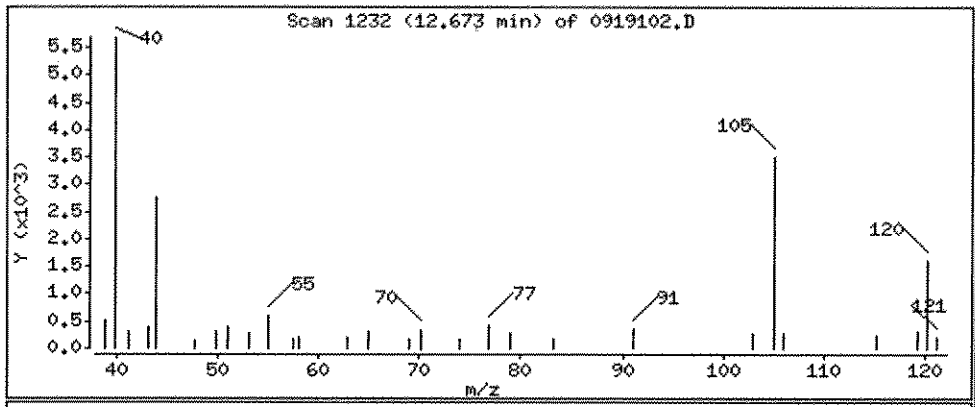
Operator: ADM

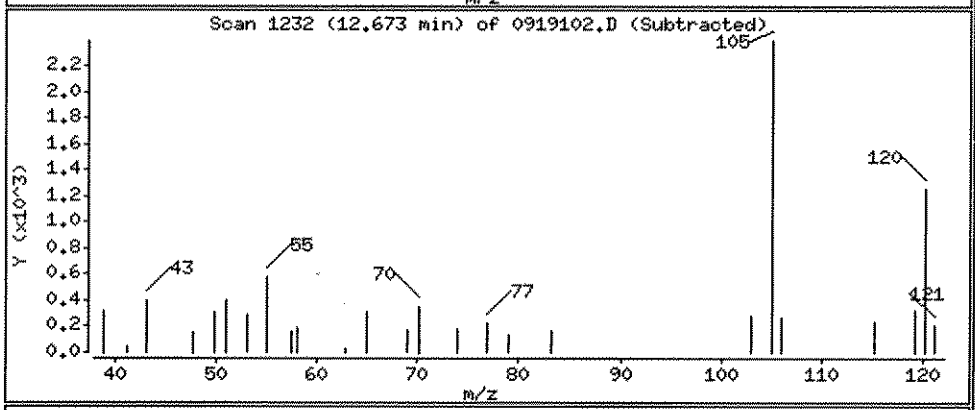
Column phase: RTX-VRX

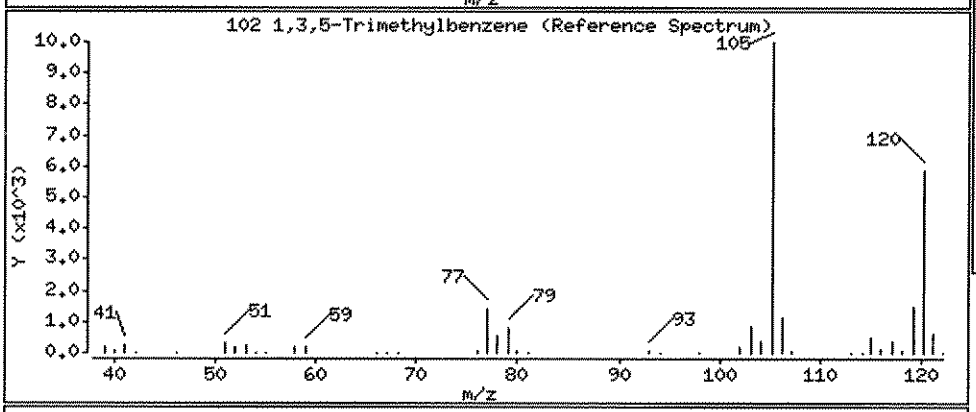
Column diameter: 0.25

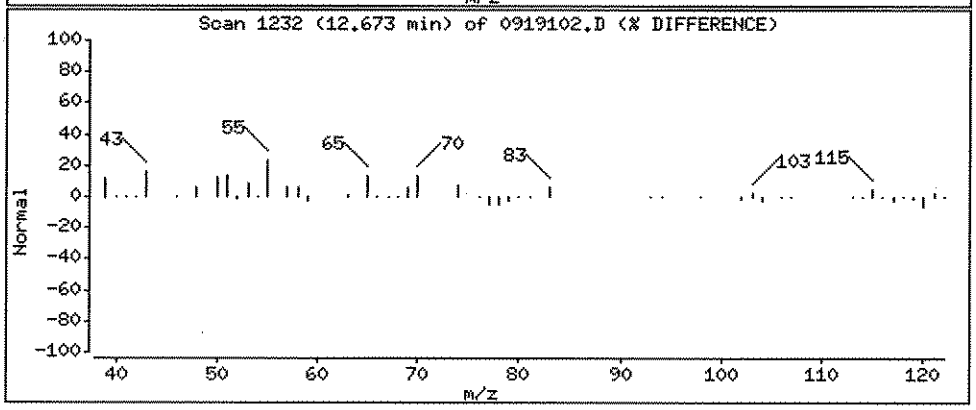
102 1,3,5-Trimethylbenzene

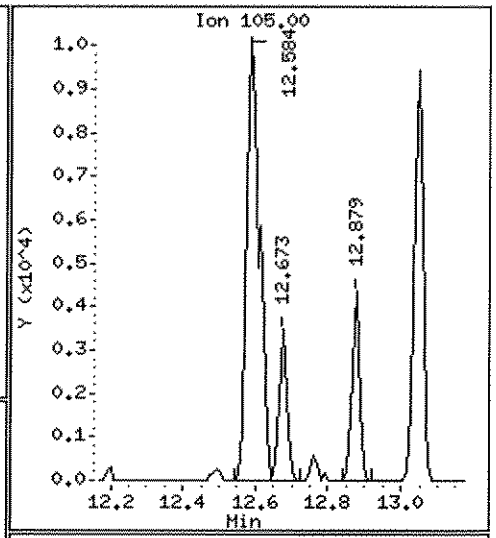
Concentration: 0.4071 ug/Kg

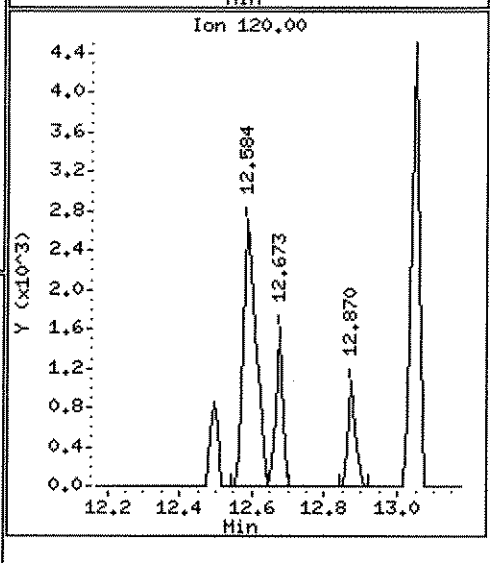












Data File: \\ELABNSH05\TARGET\chem\voa5.i\092711V5.b\0919102.D

Date : 27-SEP-2011 11:21

Client ID:

Instrument: voa5.i

Sample Info: 1109191-02;;;;;

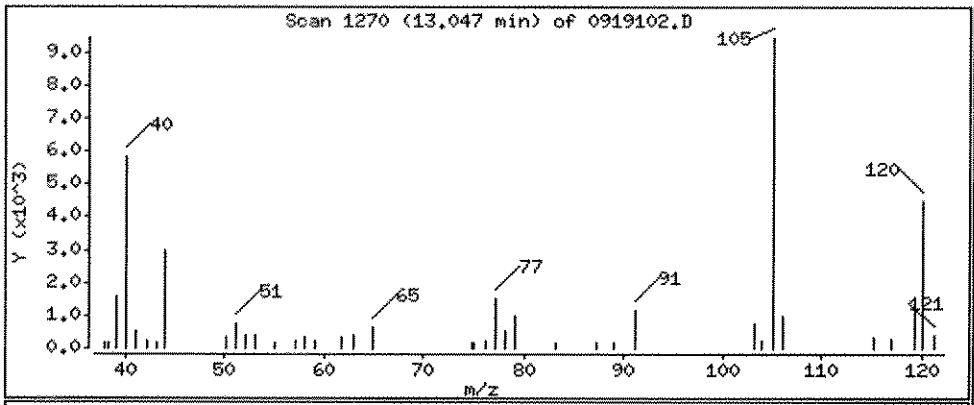
Operator: ADM

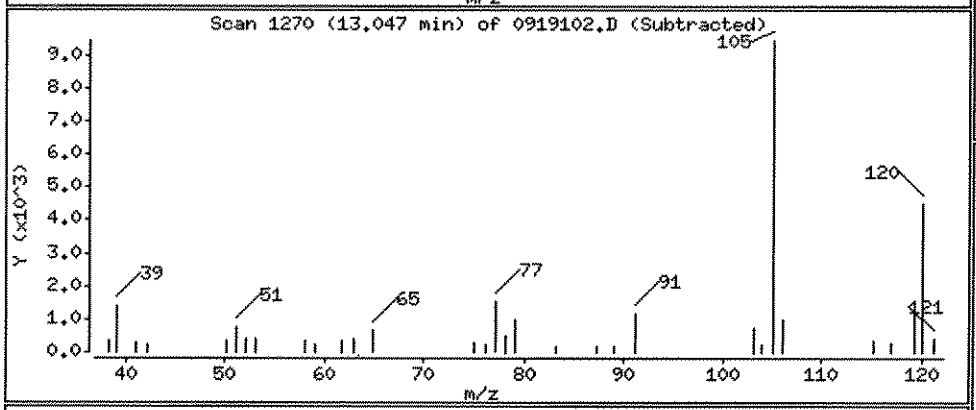
Column phase: RTX-VRX

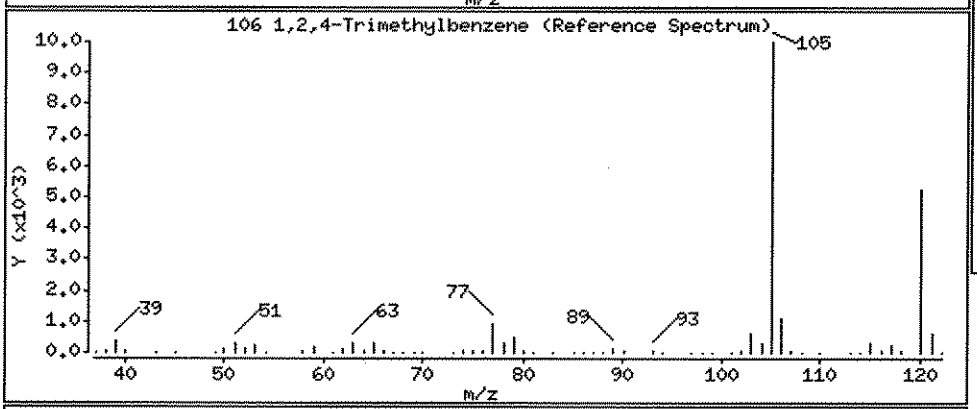
Column diameter: 0.25

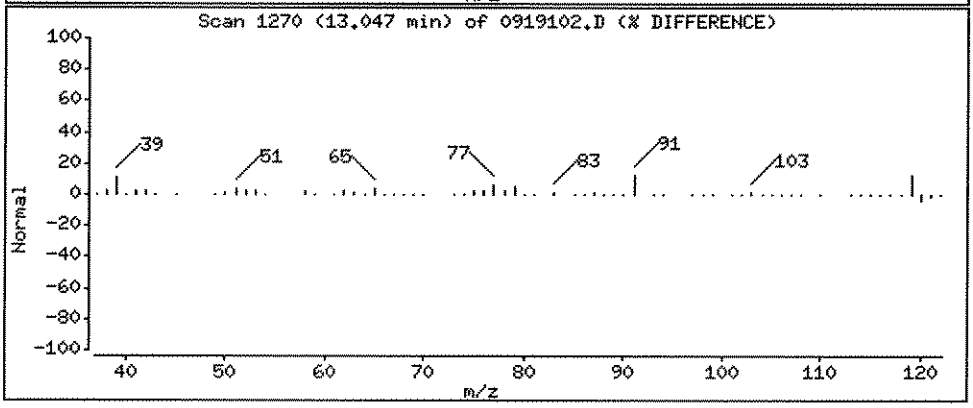
106 1,2,4-Trimethylbenzene

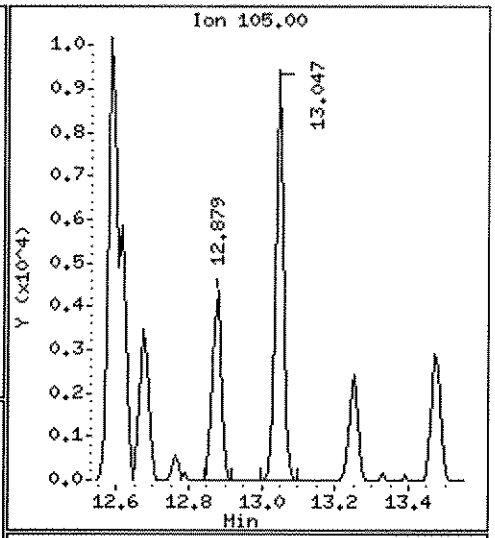
Concentration: 1.146 ug/Kg

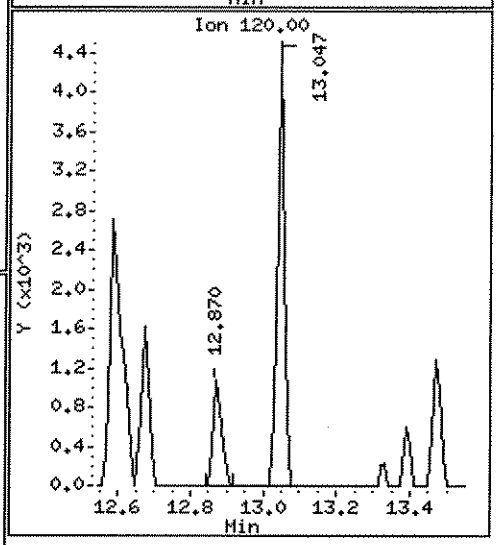












Data File: \\ELABNSH05\TARGET\chem\voa5.i\092711V5.b\0919103.D
Report Date: 28-Sep-2011 07:21

Laboratory Name

Data file : \\ELABNSH05\TARGET\chem\voa5.i\092711V5.b\0919103.D
Lab Smp Id: 1109191-03 Client Smp ID: FLC-4-SB01-0204-092
Inj Date : 27-SEP-2011 11:47 MS Autotune Date: 28-JUL-1998 05:19
Operator : ADM Inst ID: voa5.i
Smp Info : 1109191-03;;;;;
Misc Info : ;;;;;8260.sub;
Comment :
Method : \\ELABNSH05\TARGET\chem\voa5.i\092711V5.b\VS5SUR.m
Meth Date : 28-Sep-2011 07:17 amonteiro Quant Type: ISTD
Cal Date : 22-SEP-2011 14:24 Cal File: 0922CAL1.D
Als bottle: 11
Dil Factor: 1.00000
Integrator: HP RTE Compound Sublist: 8260.sub
Target Version: 4.04
Processing Host: TARGET02_VM

Concentration Formula: Amt * DF * 5*Uf/(Ws*(Solids/100))

Name	Value	Description
DF	1.000	Dilution Factor
Uf	1.000	unit correction factor
Ws	5.000	Weight of sample extracted (g)
Solids	100.000	Percent Solids

MG/VR/11

KPN 9-Sep-11

Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS ON-COLUMN (ug/Kg)	FINAL (ug/Kg)
* 55 Fluorobenzene	96	7.864	7.864	(1.000)	733561	30.0000	
10 Acetonitrile	41	3.757	3.767	(0.478)	17048	16.1661	16.17(M)
14 t-Butyl alcohol	59	4.299	4.299	(0.547)	2539	4.23179	4.232(Q)
20 Methylene chloride	84	4.643	4.643	(0.590)	50902	5.96461	5.965
34 2-Butanone	43	6.141	6.141	(0.781)	21553	5.40825	5.408(a)
29 Hexane	57	5.914	5.904	(0.752)	11892	0.92626	0.9262(a)
$ 44 Dibromofluoromethane	111	6.840	6.840	(0.870)	212547	33.8330	33.83
51 Cyclohexane	56	7.500	7.500	(0.954)	8633	0.60793	0.6079(a)
$ 48 1,2-Dichloroethane-d4	102	7.332	7.332	(0.932)	42521	32.9425	32.94
53 Benzene	78	7.598	7.598	(0.966)	42567	1.50759	1.508
$ 71 Toluene-d8	98	9.568	9.568	(0.869)	641096	30.0580	30.06
74 Toluene	92	9.647	9.647	(0.877)	52293	3.39750	3.397
63 Methyl cyclohexane	83	8.741	8.741	(1.111)	11750	1.01065	1.011
* 82 Chlorobenzene-d5	82	11.007	10.997	(1.000)	324582	30.0000	
86 Ethylbenzene	91	11.184	11.184	(1.016)	39839	1.41326	1.413

Data File: \\ELABNSH05\TARGET\chem\voa5.i\092711V5.b\0919103.D
Report Date: 28-Sep-2011 07:21

Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS ON-COLUMN (ug/Kg)	CONCENTRATIONS FINAL (ug/Kg)
87 m,p-Xylene	91	11.302	11.302	(1.027)	53360	2.73677	2.737
M 119 Xylene(total)	91				76053	3.86206	3.862
89 o-Xylene	91	11.696	11.696	(1.063)	22693	1.12528	1.125
$ 97 Bromofluorobenzene	95	12.198	12.199	(1.108)	278413	30.9308	30.93
106 1,2,4-Trimethylbenzene	105	13.046	13.046	(0.974)	13723	0.93544	0.9354(a)
* 110 1,4-Dichlorobenzene-d4	152	13.400	13.400	(1.000)	208183	30.0000	(Q)

QC Flag Legend

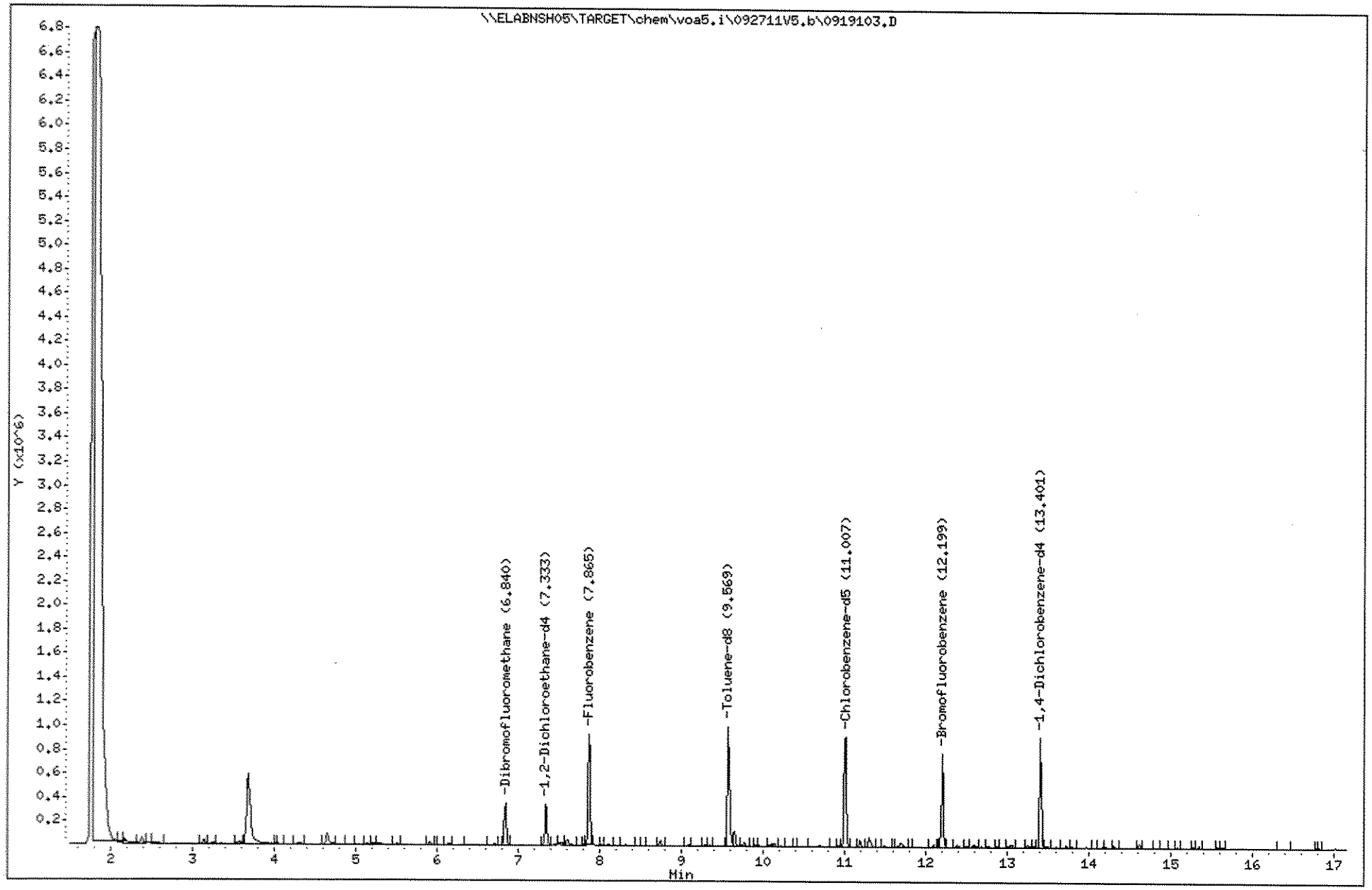
a - Target compound detected but, quantitated amount Below Limit Of Quantitation(BLOQ).
Q - Qualifier signal failed the ratio test.
M - Compound response manually integrated.

Data File: \\ELABNSH05\TARGET\chem\voa5.i\092711V5.b\0919103.D
Date : 27-SEP-2011 11:47
Client ID: FLC-4-SB01-0204-092
Sample Info: 1109191-03;;;;;

Instrument: voa5.i

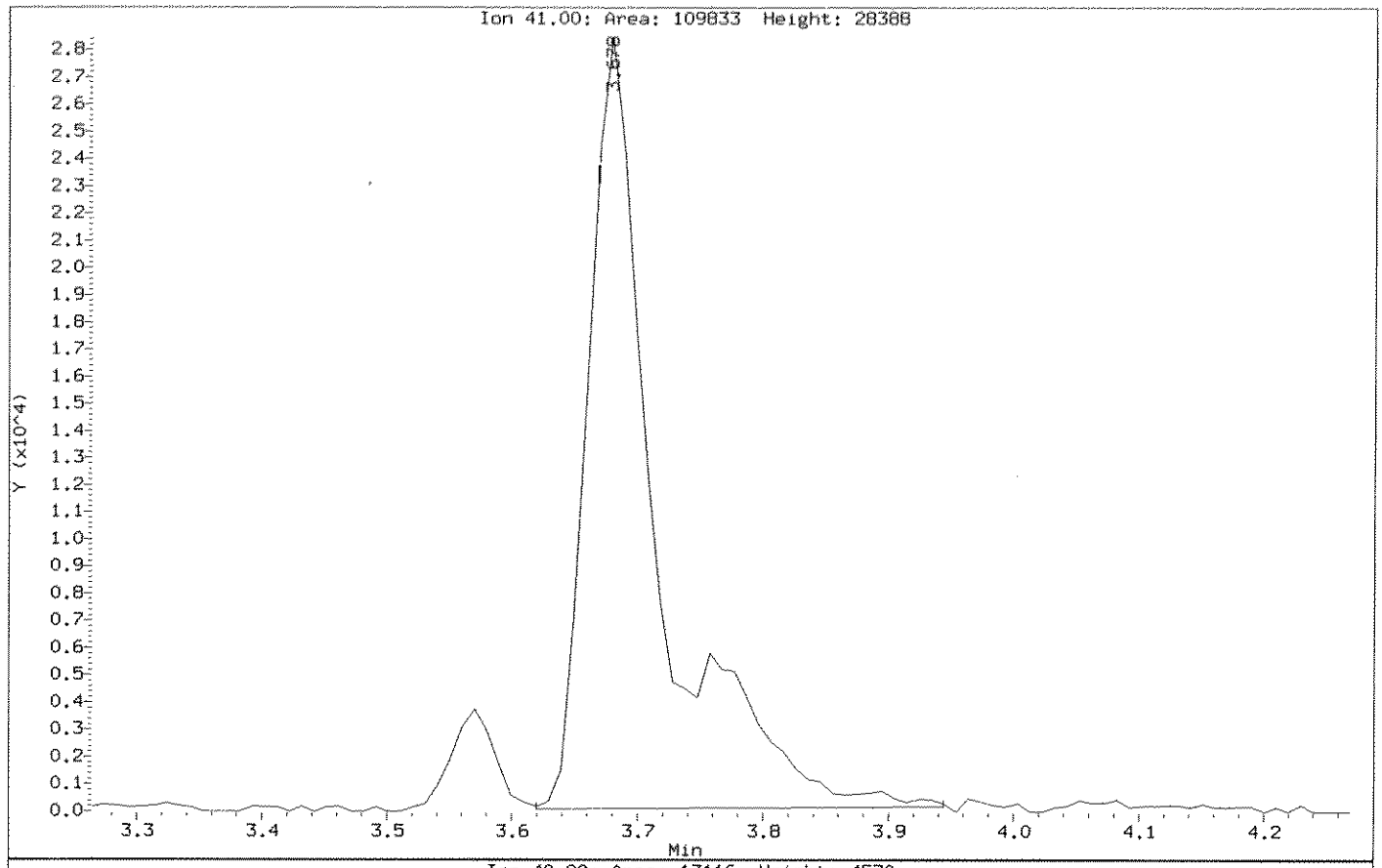
Operator: ADM
Column diameter: 0.25

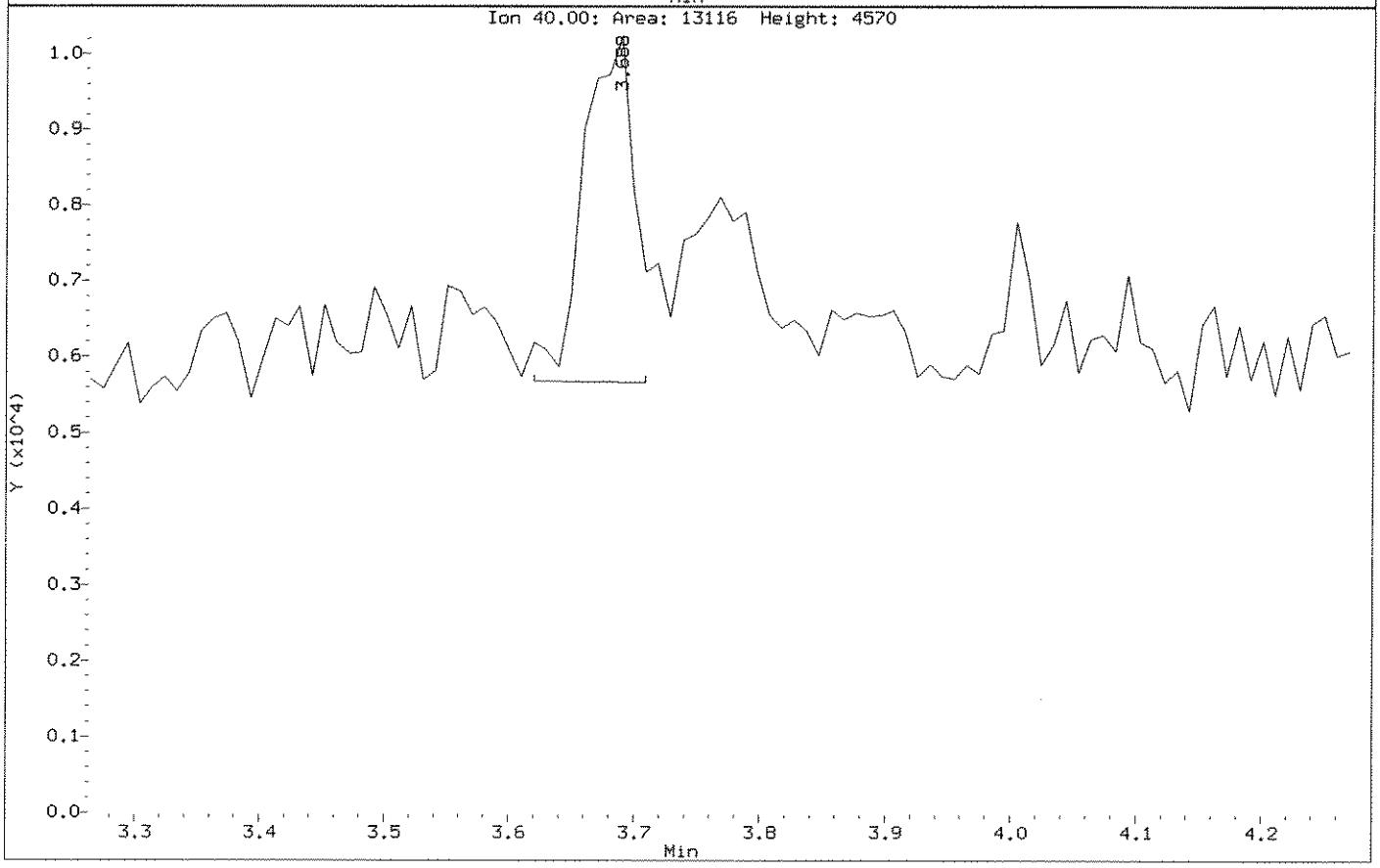
Column phase: RTX-VRX



Data File: \\ELABNSHO5\TARGET\chem\voa5.i\092711V5.b\0919103.D
Injection Date: 27-SEP-2011 11:47
Instrument: voa5.i
Client Sample ID: FLC-4-SB01-0204-092

Compound: Acetonitrile
CAS Number: 75-05-8





Data File: \\ELABNSH05\TARGET\chem\voa5.i\092711V5.b\0919103.D

Date : 27-SEP-2011 11:47

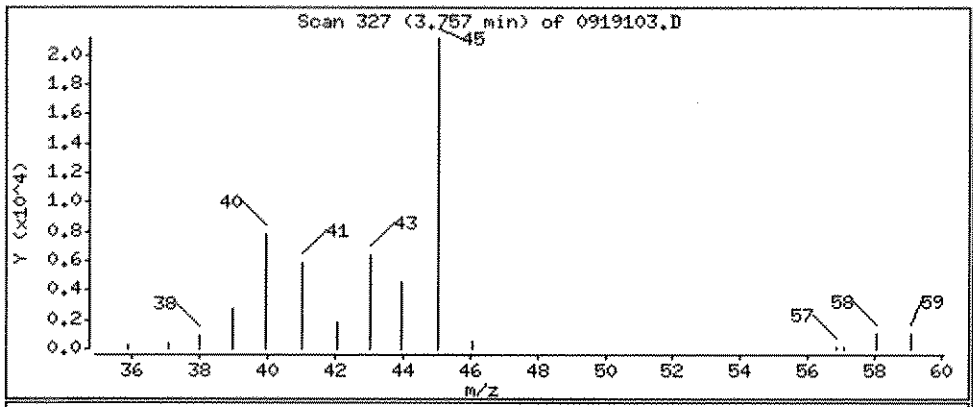
Client ID: FLC-4-SB01-0204-092 Instrument: voa5.i

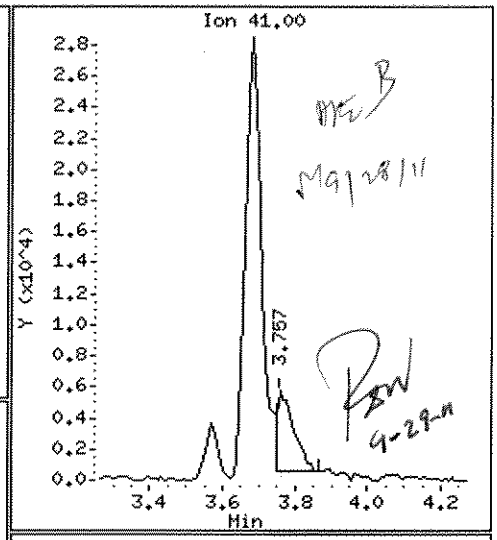
Sample Info: 1109191-03;;;;;

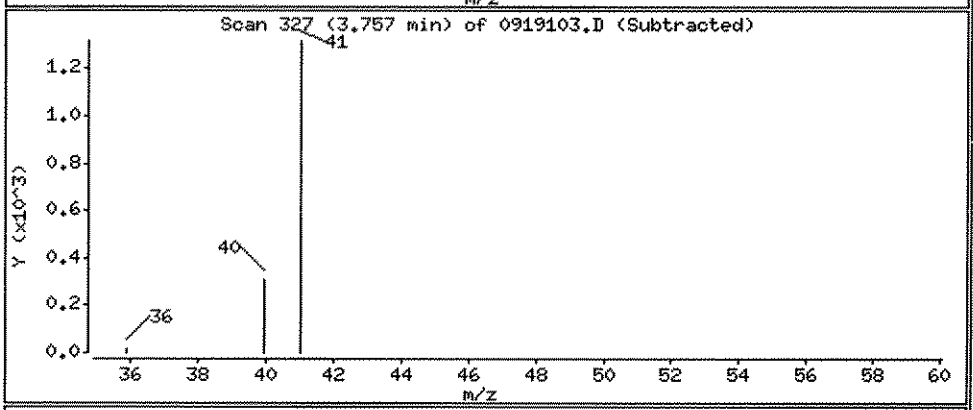
Operator: ADM

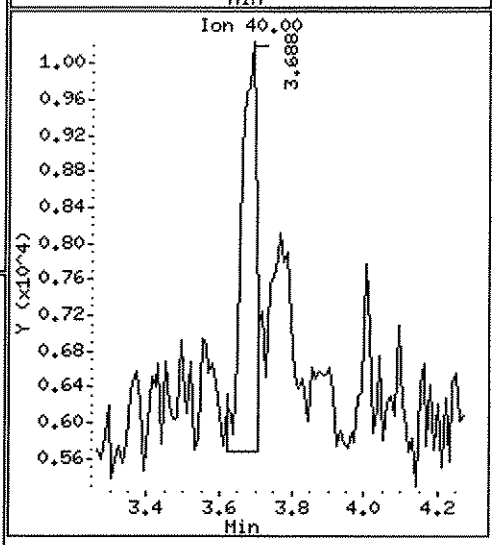
Column phase: RTX-VRX Column diameter: 0.25

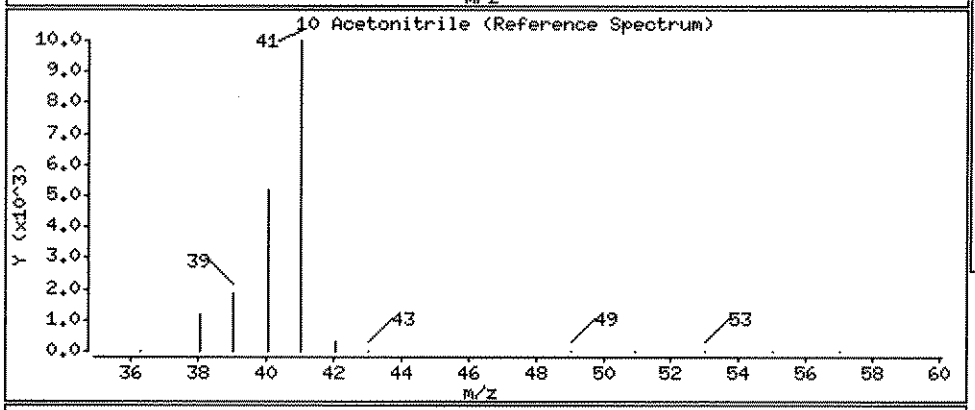
10 Acetonitrile Concentration: 16.17 ug/Kg

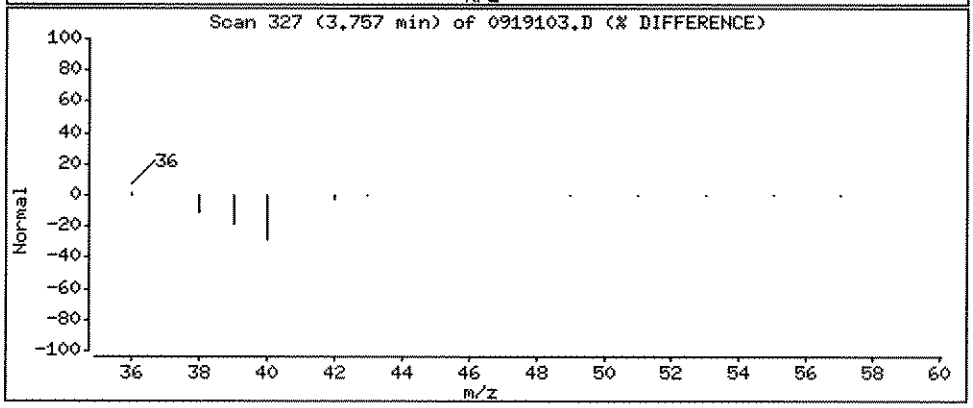












Data File: \\ELABNSH05\TARGET\chem\voa5.i\092711V5.b\0919103.D

Date : 27-SEP-2011 11:47

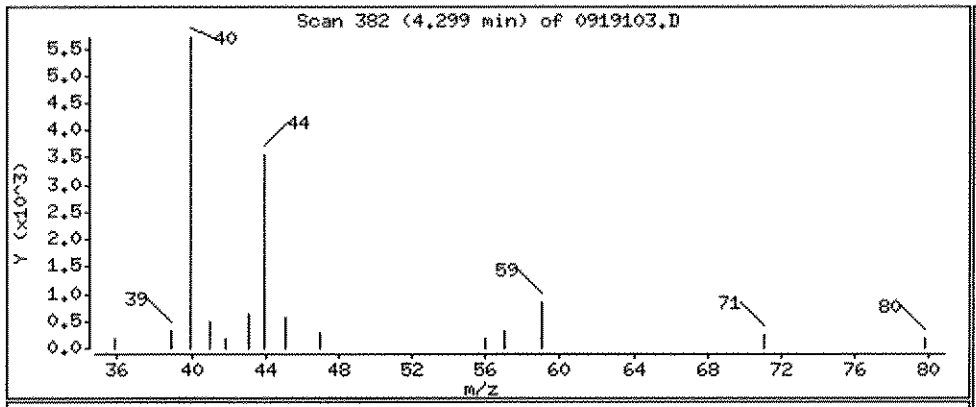
Client ID: FLC-4-SB01-0204-092 Instrument: voa5.i

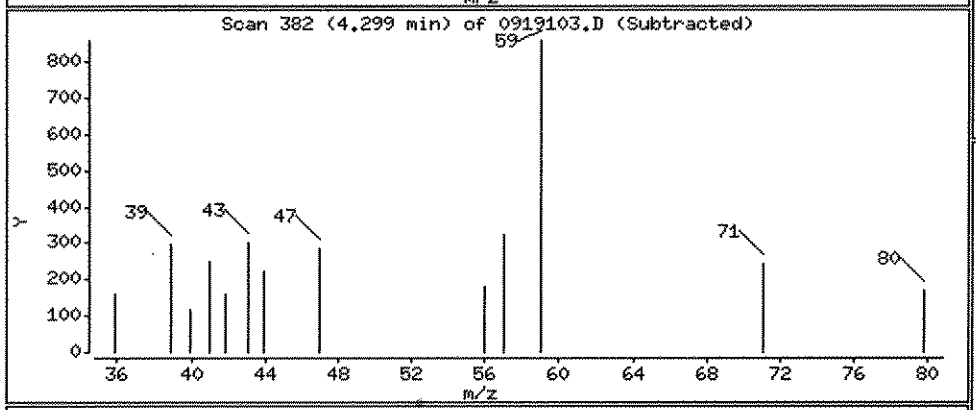
Sample Info: 1109191-03;;;;;

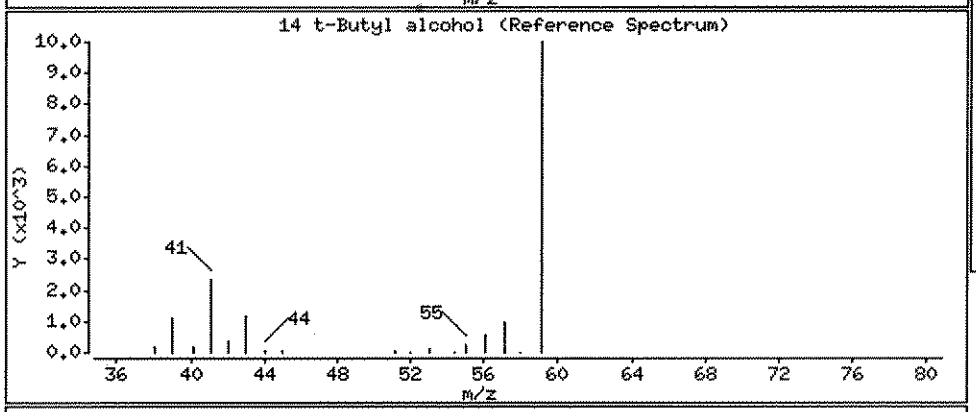
Operator: ADM

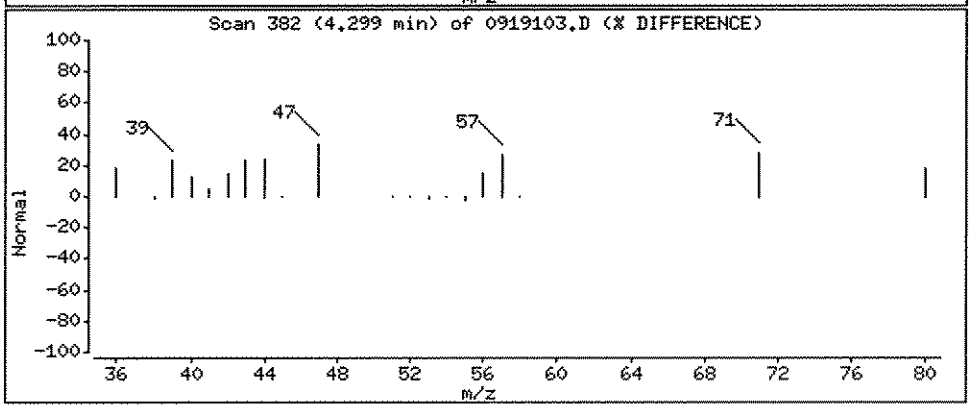
Column phase: RTX-VRX Column diameter: 0.25

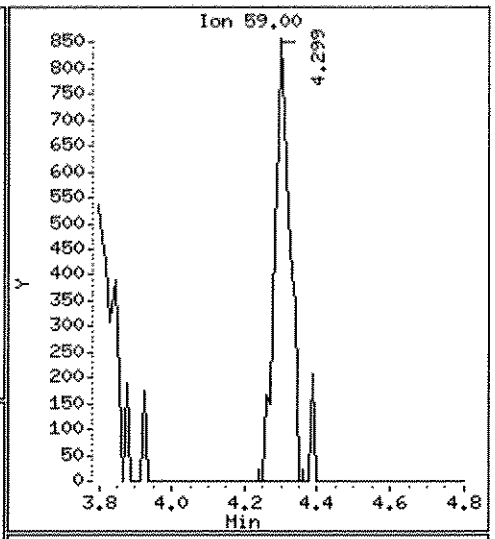
14 t-Butyl alcohol Concentration: 4.232 ug/Kg

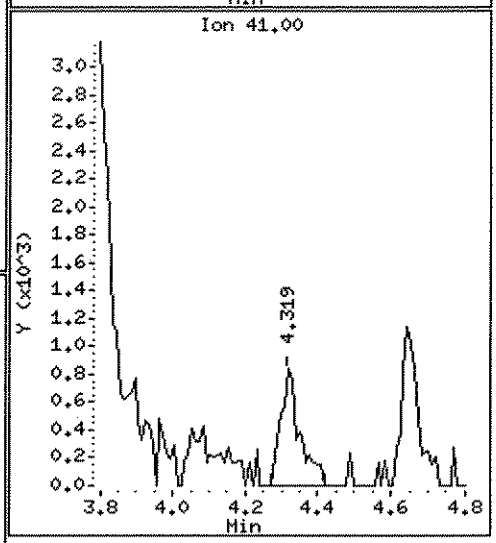












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Date : 27-SEP-2011 11:47

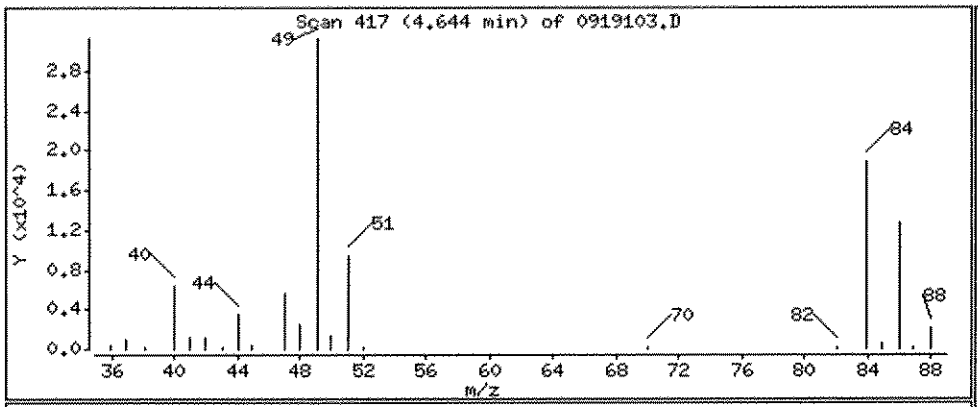
Client ID: FLC-4-SB01-0204-092 Instrument: voa5.i

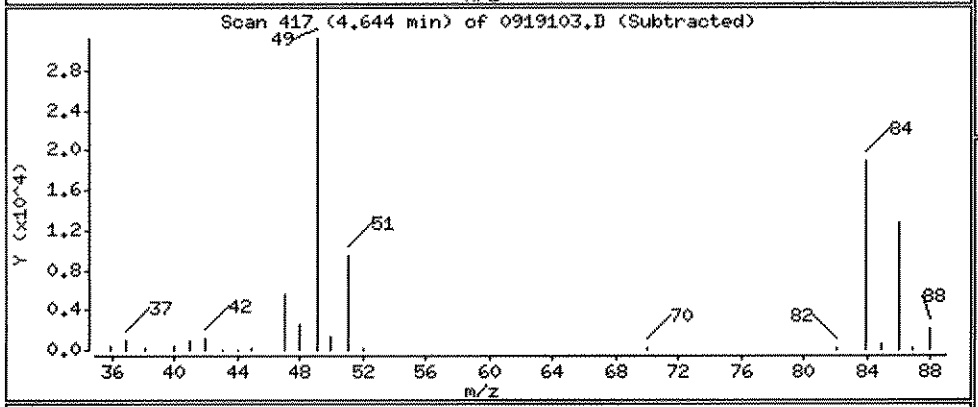
Sample Info: 1109191-03;;;;;

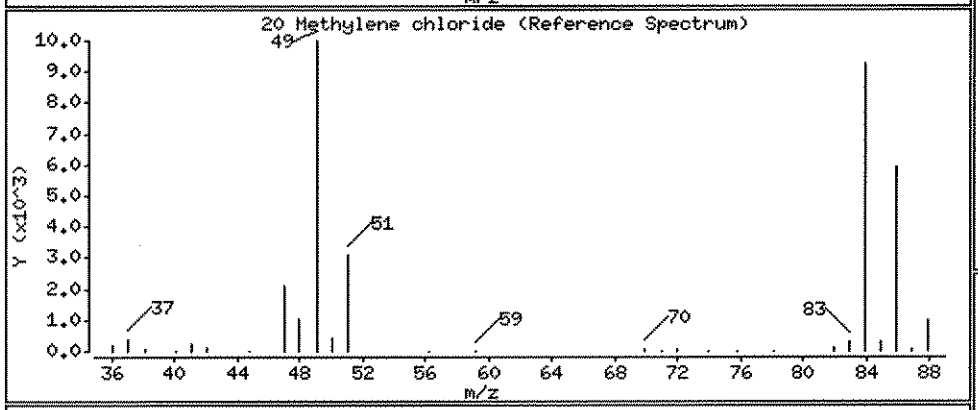
Operator: ADM

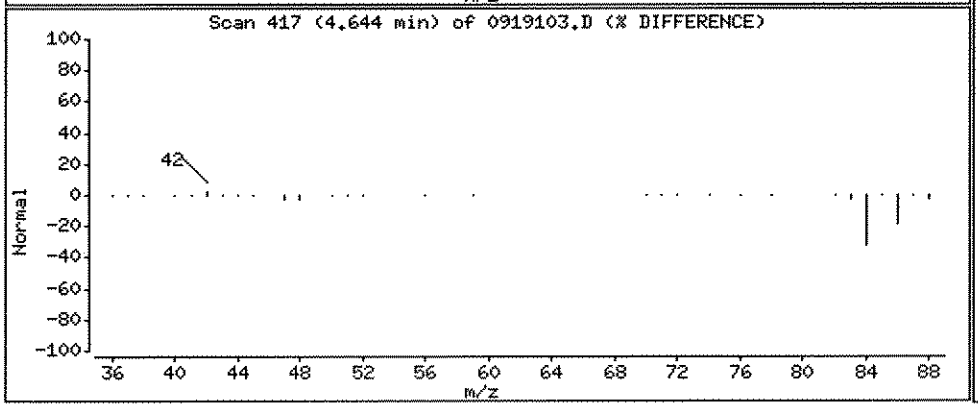
Column phase: RTX-VRX Column diameter: 0.25

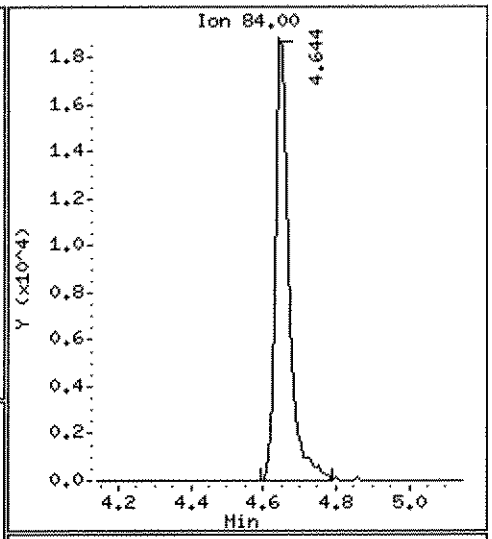
20 Methylene chloride Concentration: 5.965 ug/Kg

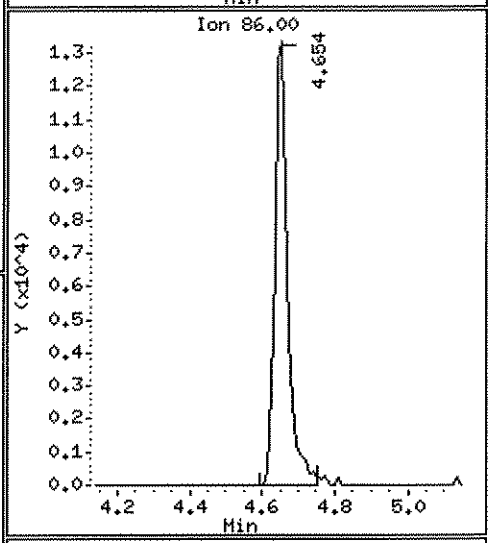


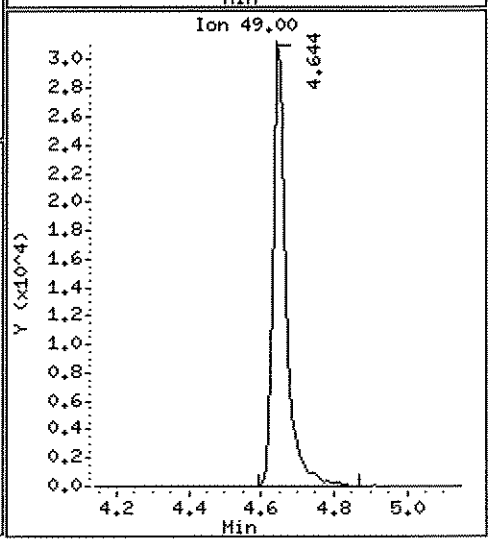












Data File: \\ELABNSH05\TARGET\chem\voa5.i\092711V5.b\0919103.D

Date : 27-SEP-2011 11:47

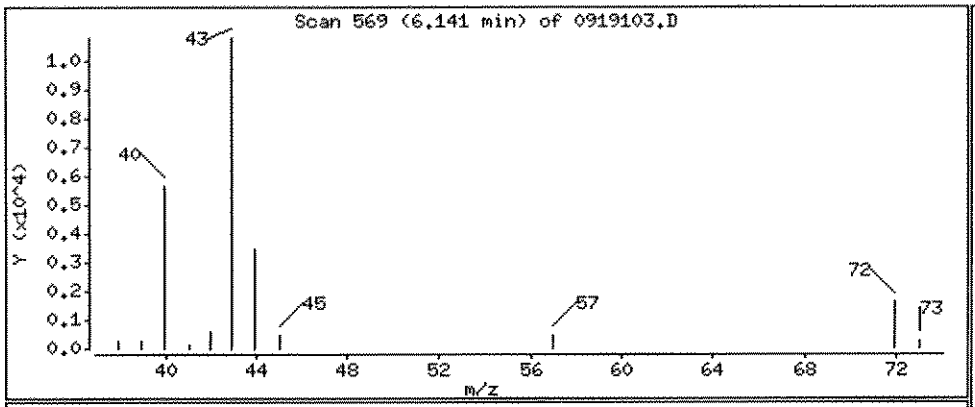
Client ID: FLC-4-SB01-0204-092 Instrument: voa5.i

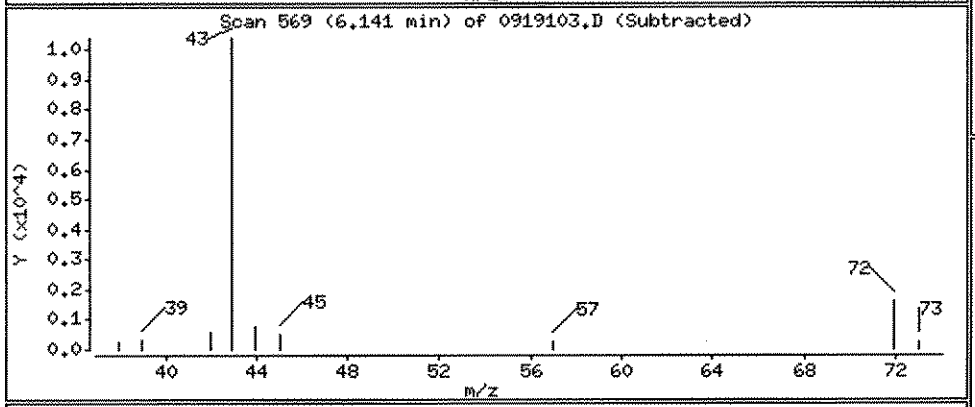
Sample Info: 1109191-03;;;;;

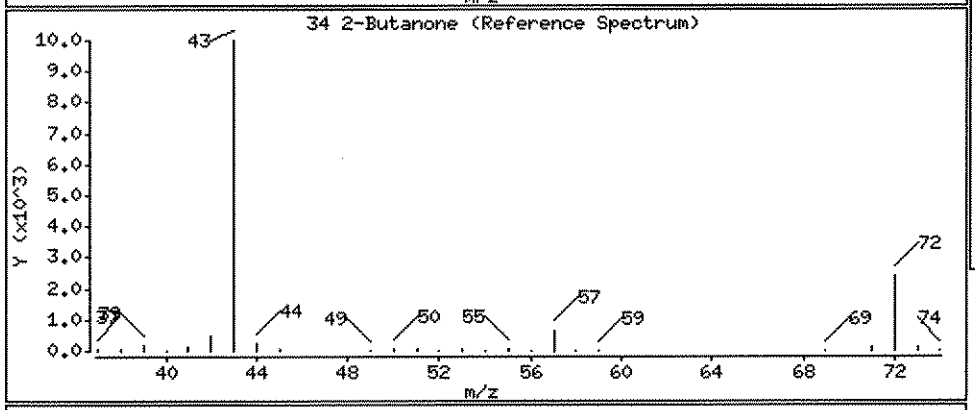
Operator: ADM

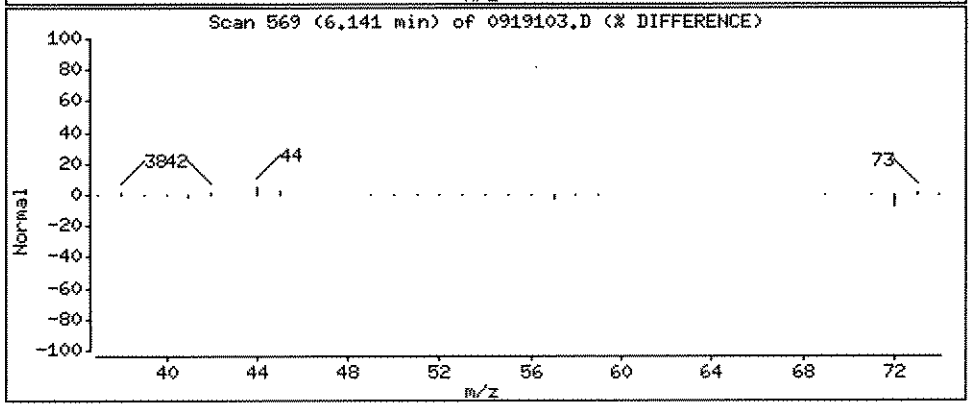
Column phase: RTX-VRX Column diameter: 0.25

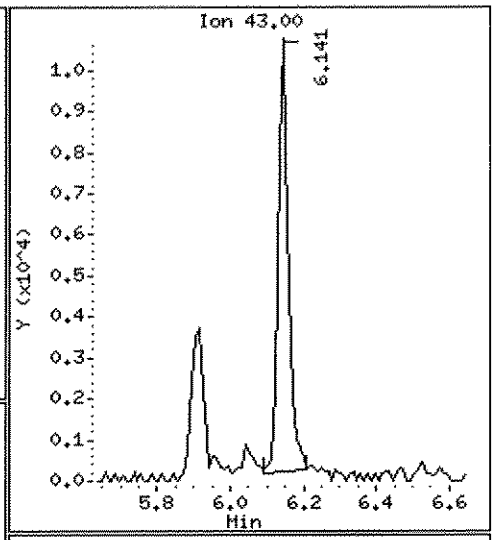
34 2-Butanone Concentration: 5.408 ug/Kg

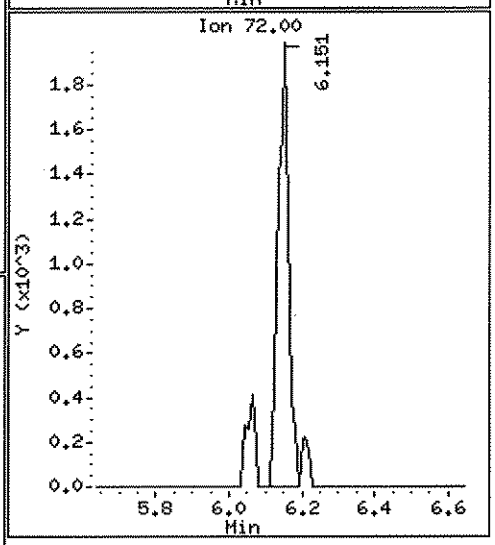












Data File: \\ELABNSH05\TARGET\chem\voa5.i\092711V5.b\0919103.D

Date : 27-SEP-2011 11:47

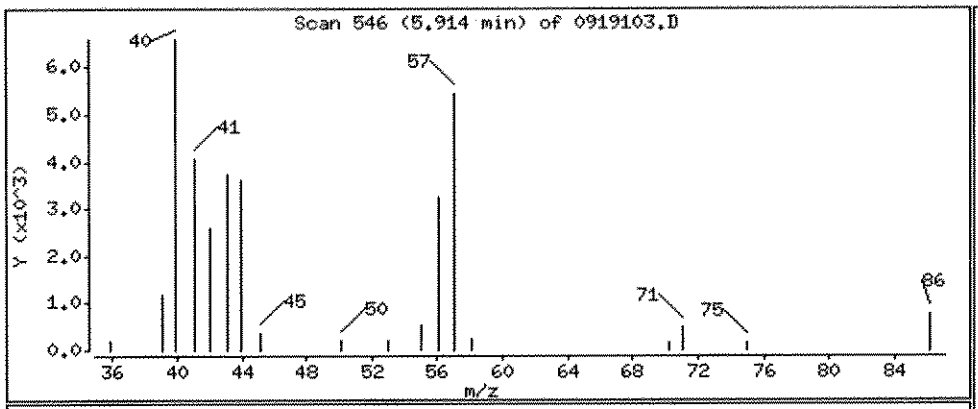
Client ID: FLC-4-SB01-0204-092 Instrument: voa5.i

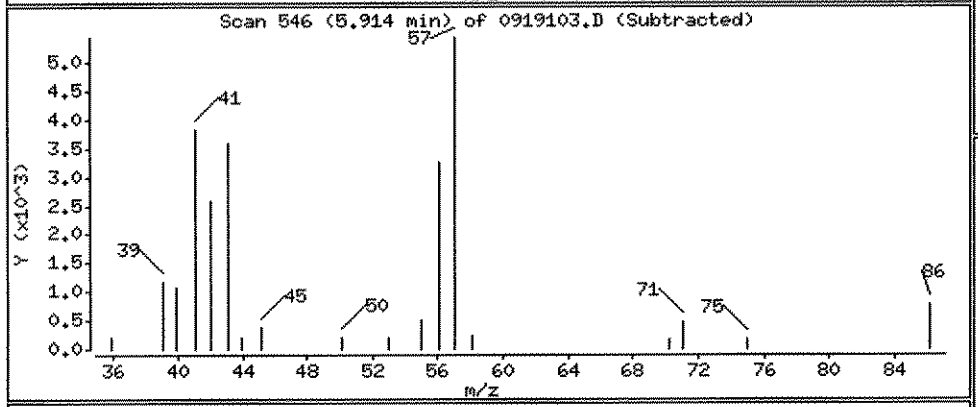
Sample Info: 1109191-03;;;;;

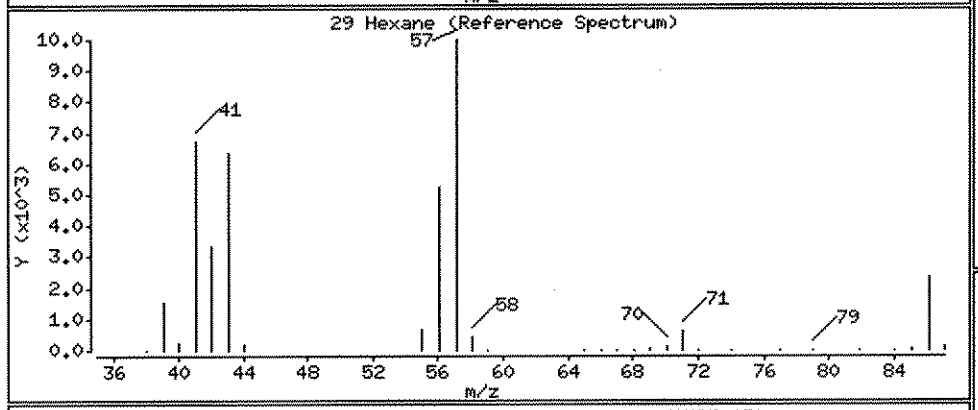
Operator: ADM

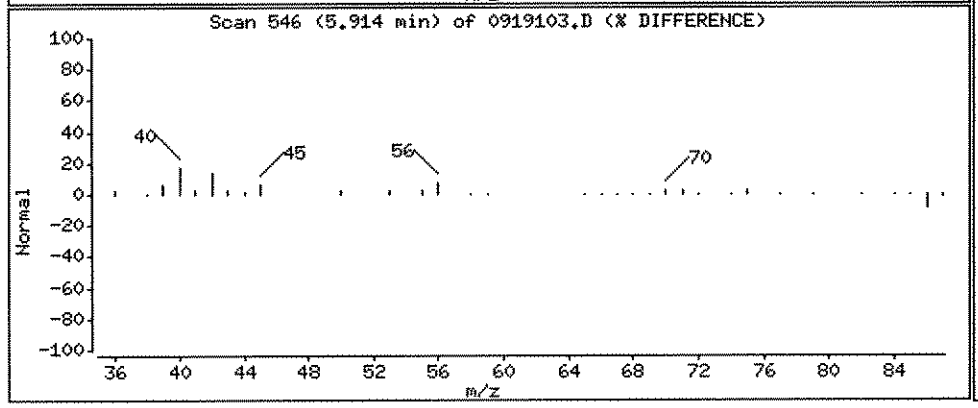
Column phase: RTX-VRX Column diameter: 0.25

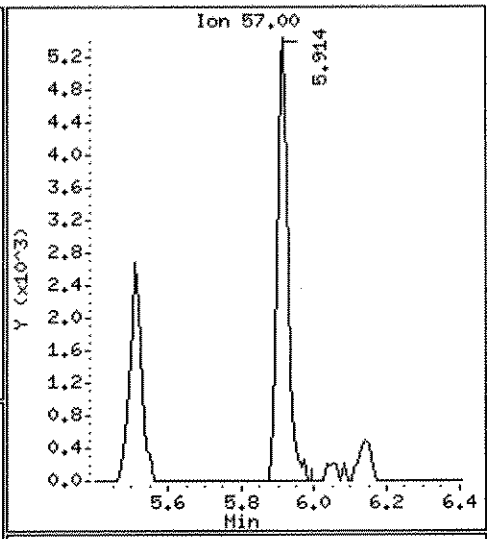
29 Hexane Concentration: 0.9262 ug/Kg

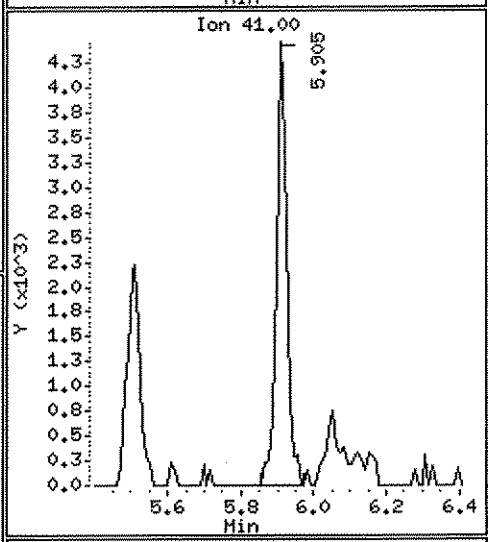


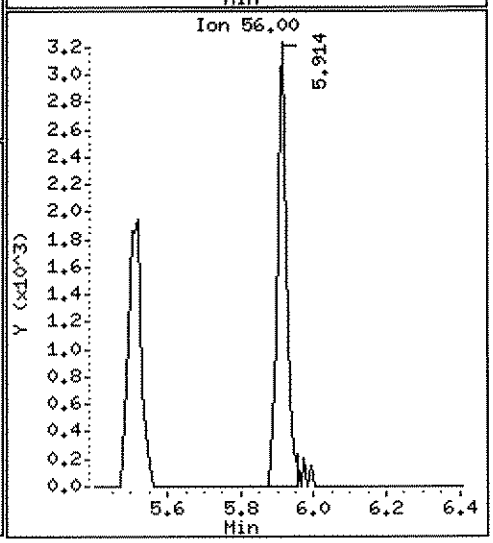












Data File: \\ELABNSH05\TARGET\chem\voa5.i\092711V5.b\0919103.D

Date : 27-SEP-2011 11:47

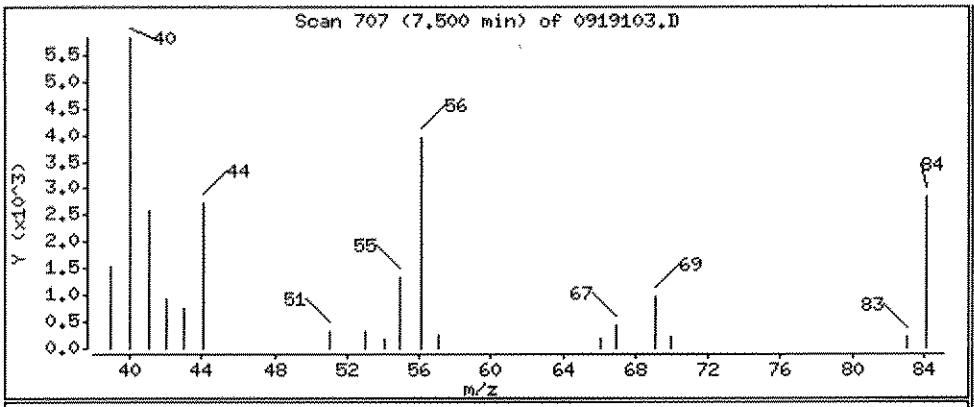
Client ID: FLC-4-SB01-0204-092 Instrument: voa5.i

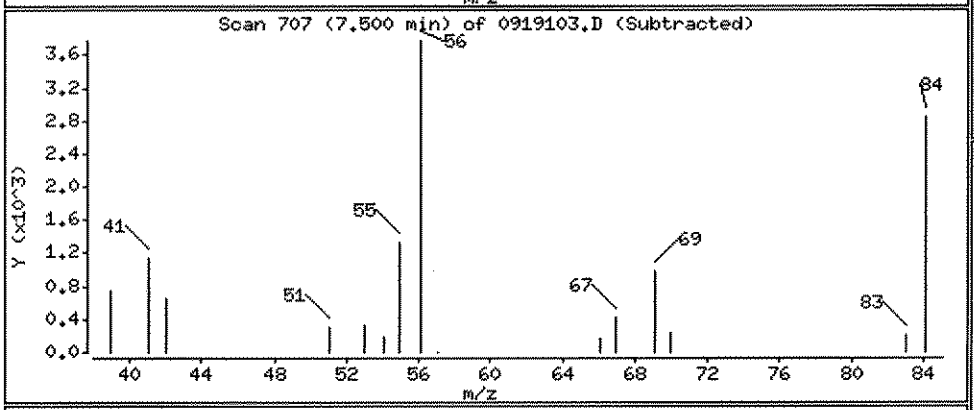
Sample Info: 1109191-03;;;;;

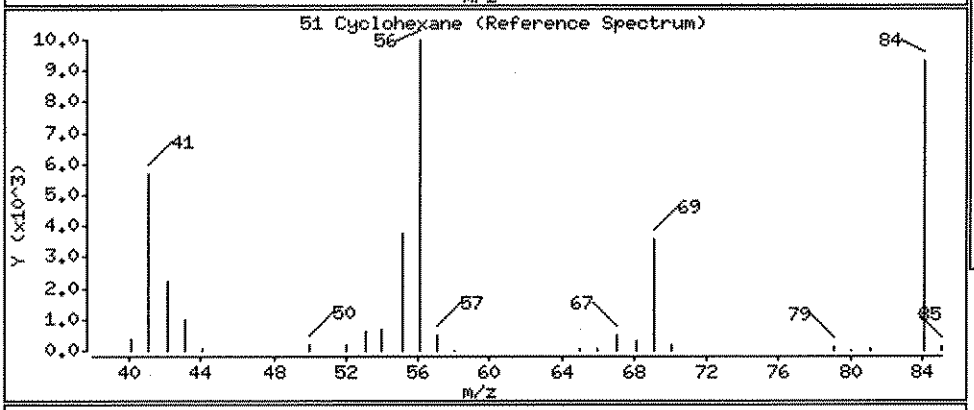
Operator: ADM

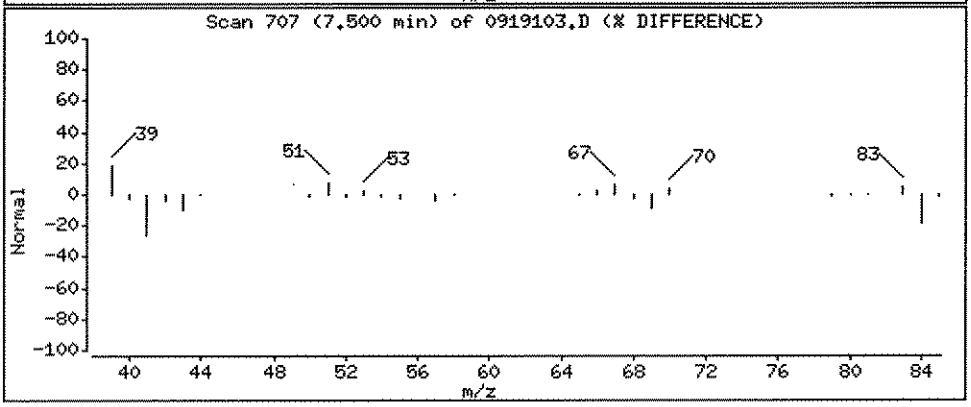
Column phase: RTX-VRX Column diameter: 0.25

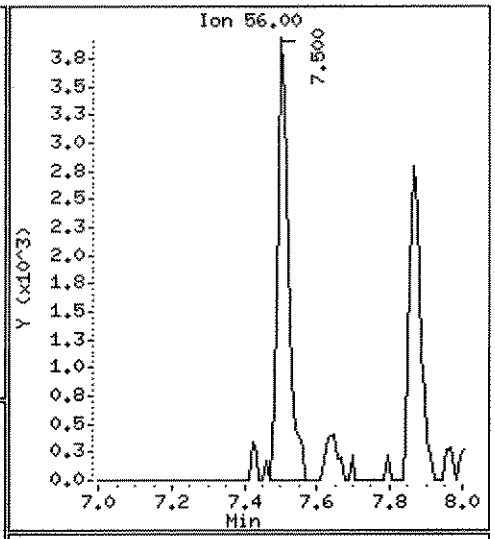
51 Cyclohexane Concentration: 0.6079 ug/Kg

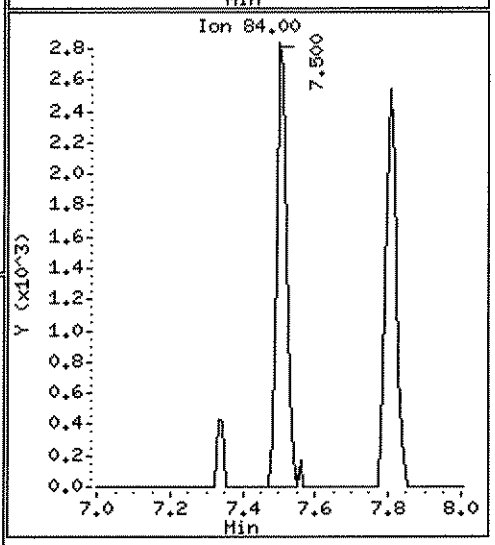












Data File: \\ELABNSH05\TARGET\chem\voa5.i\092711V5.b\0919103.D

Date : 27-SEP-2011 11:47

Client ID: FLC-4-SB01-0204-092

Instrument: voa5.i

Sample Info: 1109191-03;;;;;

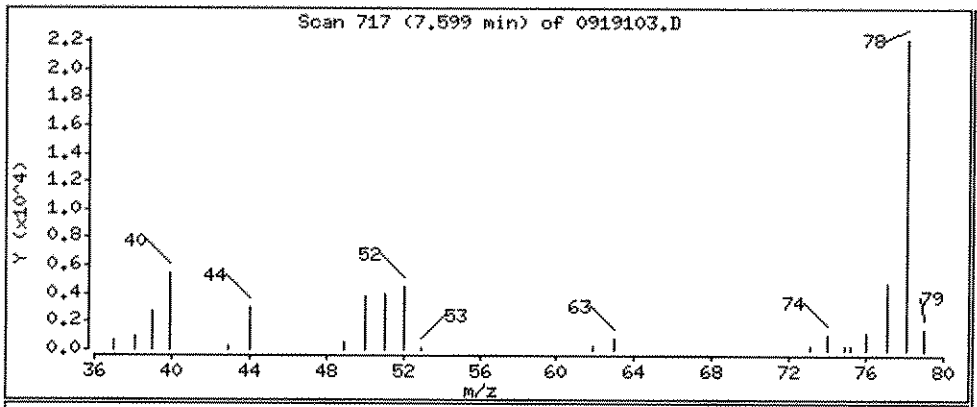
Operator: ADM

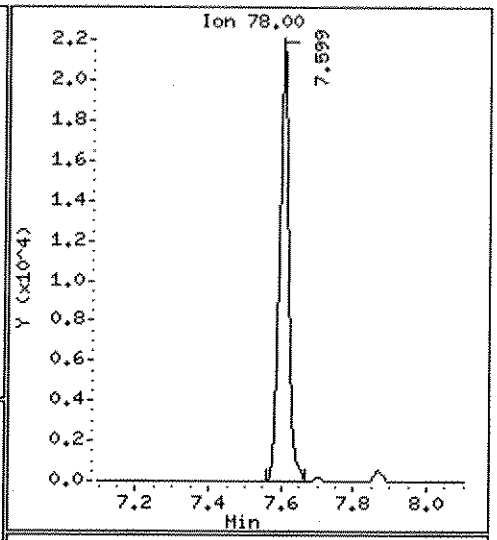
Column phase: RTX-VRX

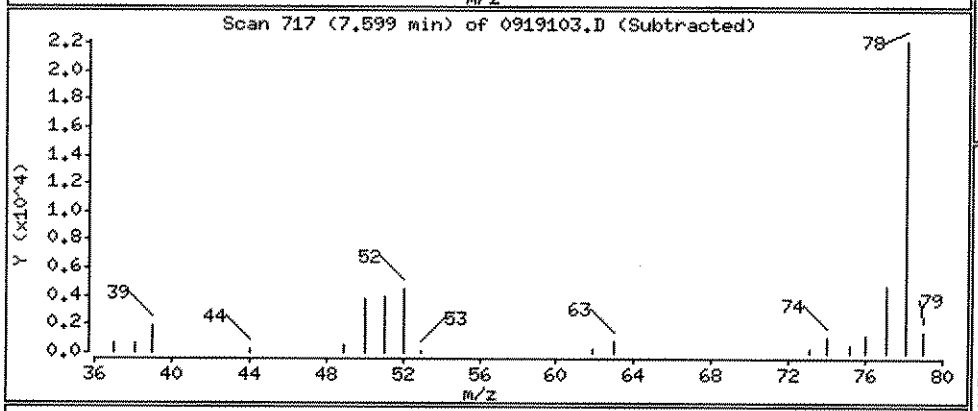
Column diameter: 0.25

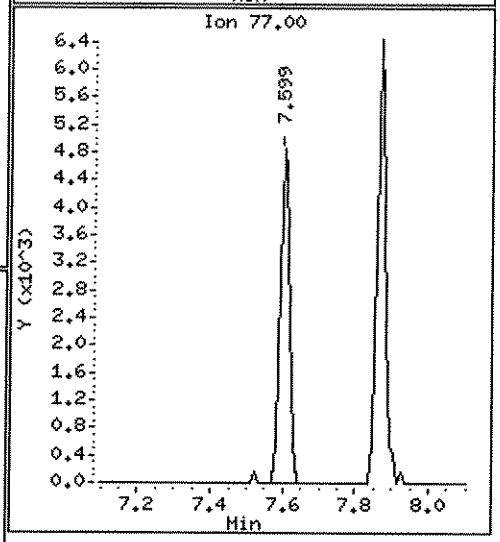
53 Benzene

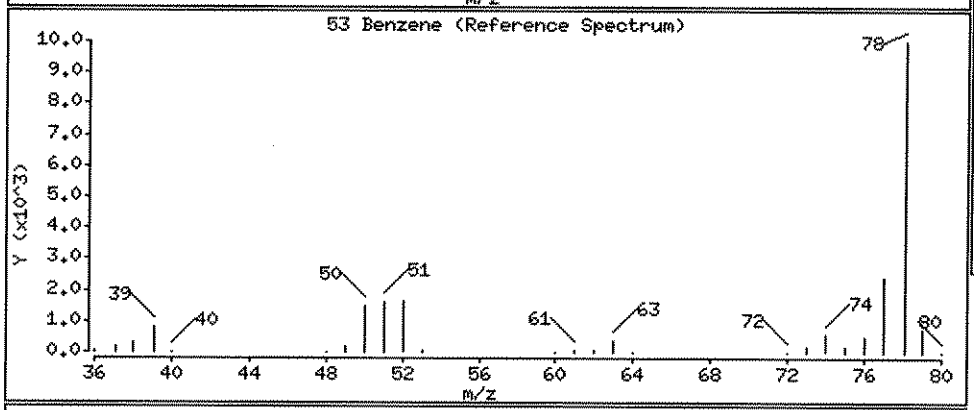
Concentration: 1.508 ug/Kg

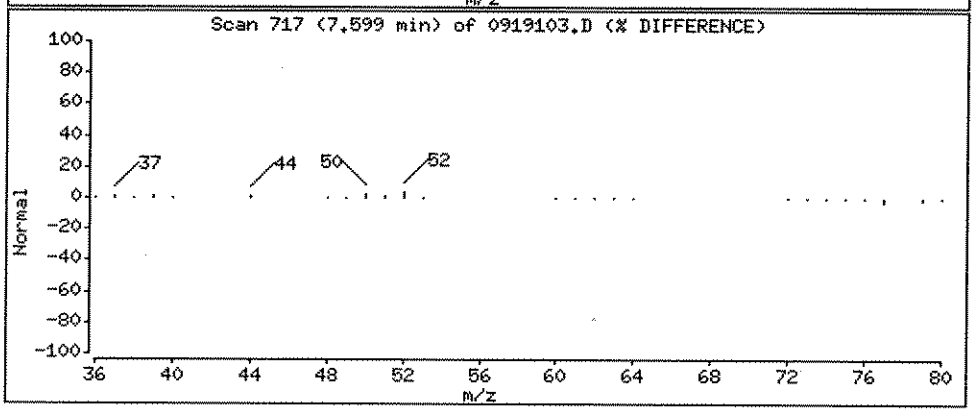












Data File: \\ELABNSH05\TARGET\chem\voa5.i\092711V5.b\0919103.D

Date : 27-SEP-2011 11:47

Client ID: FLC-4-SB01-0204-092

Instrument: voa5.i

Sample Info: 1109191-03;;;;;

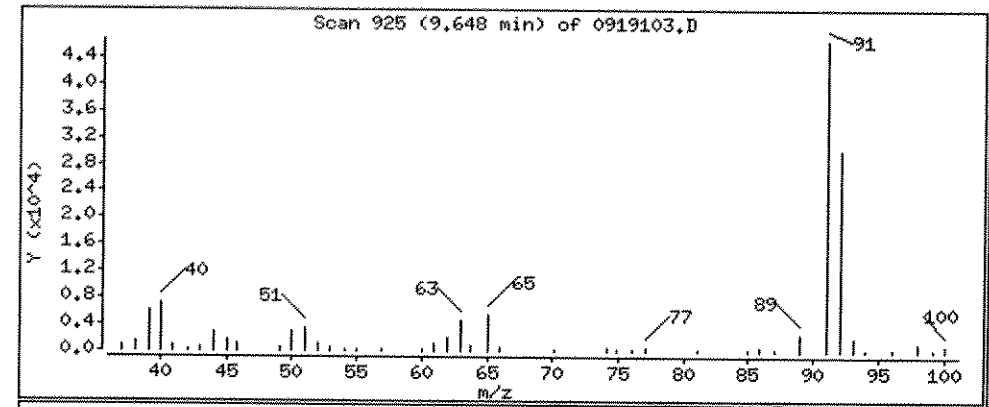
Operator: ADM

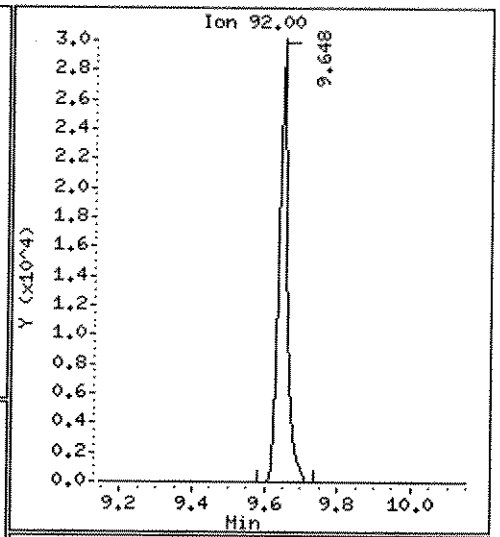
Column phase: RTX-VRX

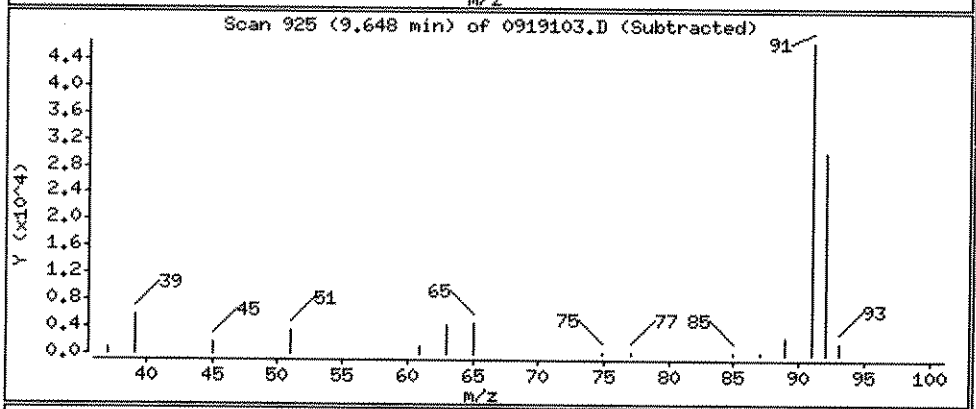
Column diameter: 0.25

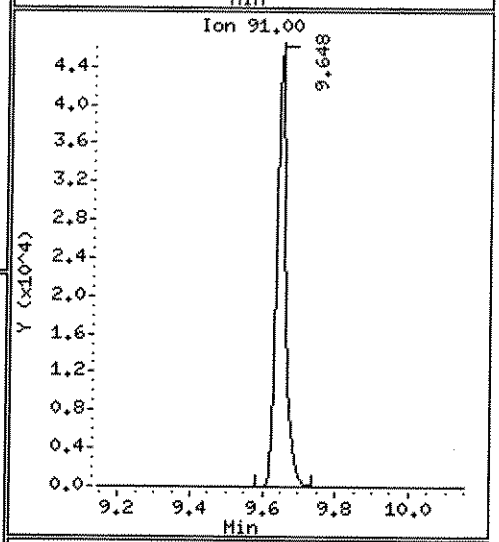
74 Toluene

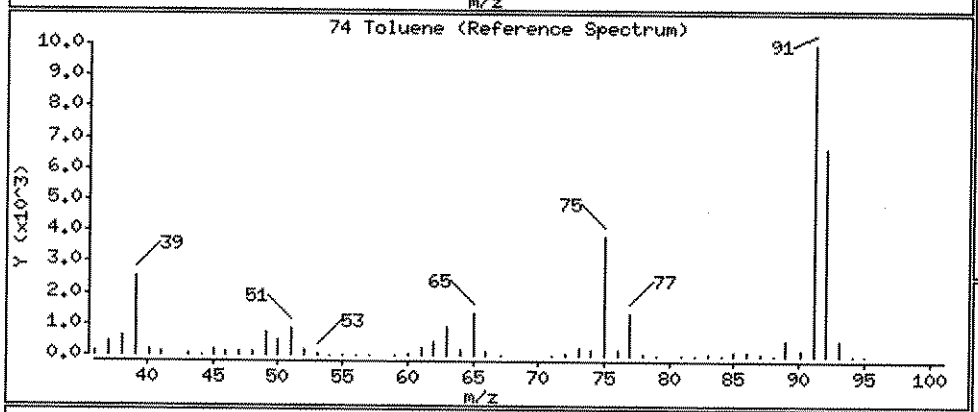
Concentration: 3.397 ug/Kg

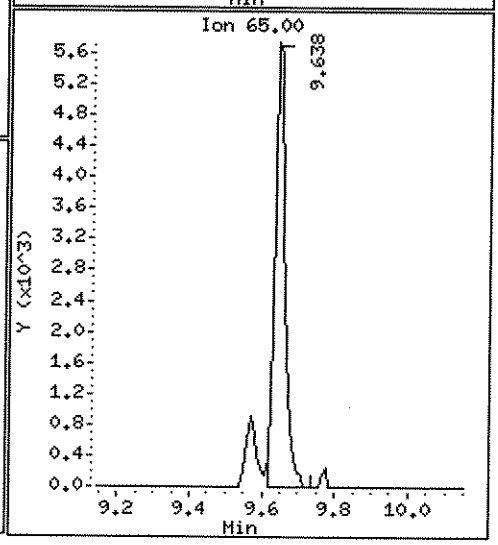


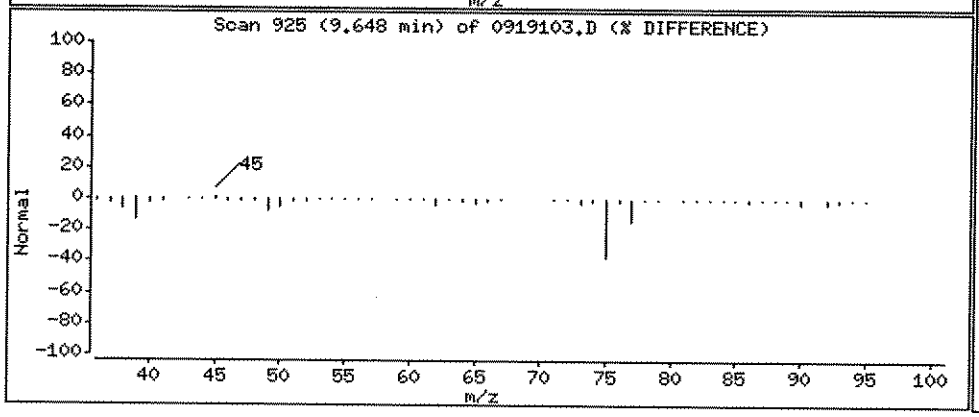












Data File: \\ELABNSH05\TARGET\chem\voa5.i\092711V5.b\0919103.D

Date : 27-SEP-2011 11:47

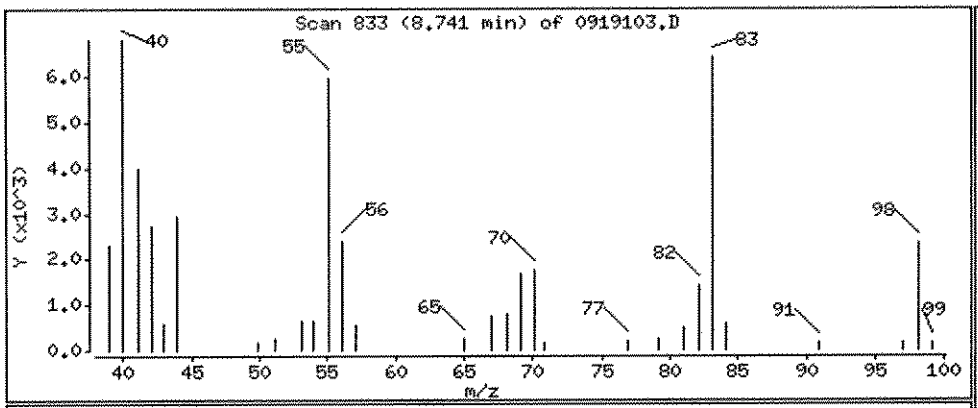
Client ID: FLC-4-SB01-0204-092 Instrument: voa5.i

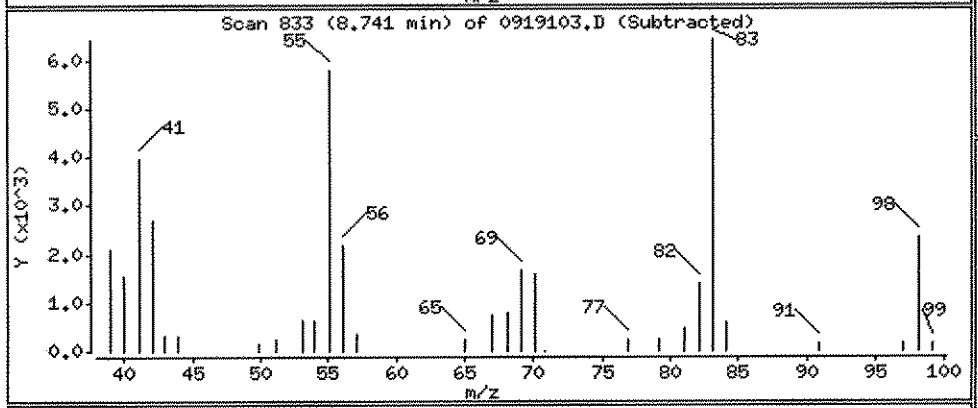
Sample Info: 1109191-03;;;;;

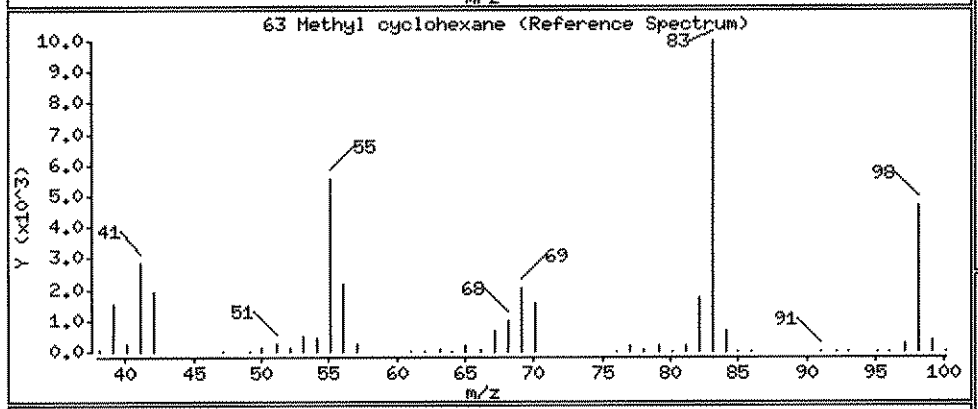
Operator: ADM

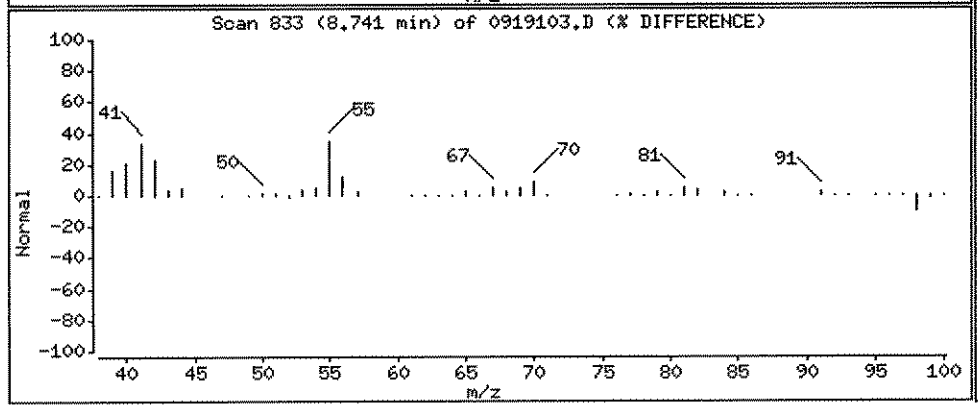
Column phase: RTX-VRX Column diameter: 0.25

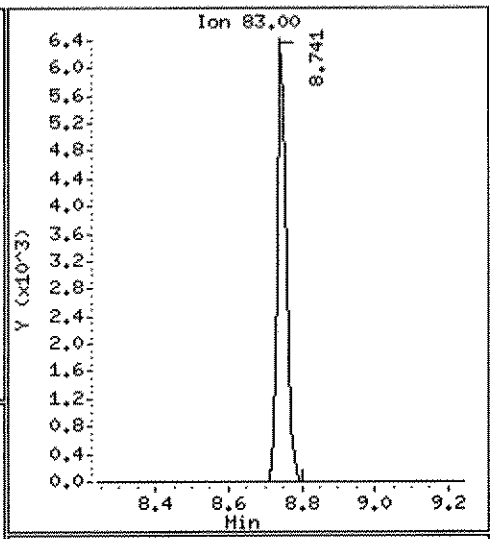
63 Methyl cyclohexane Concentration: 1.011 ug/Kg

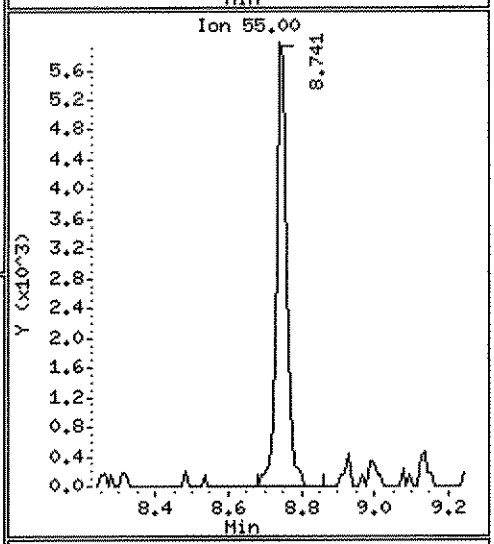


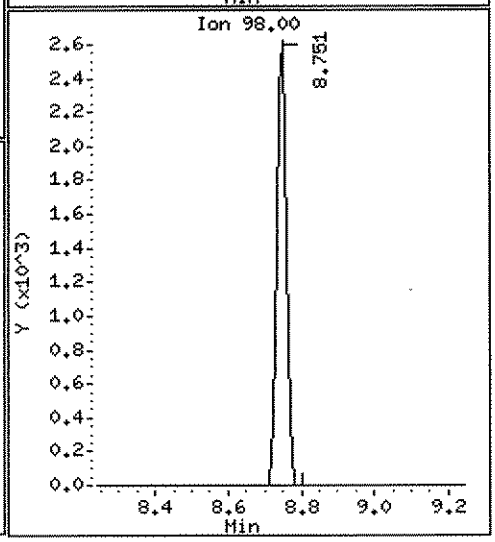












Data File: \\ELABNSH05\TARGET\chem\voa5.i\092711V5.b\0919103.D

Date : 27-SEP-2011 11:47

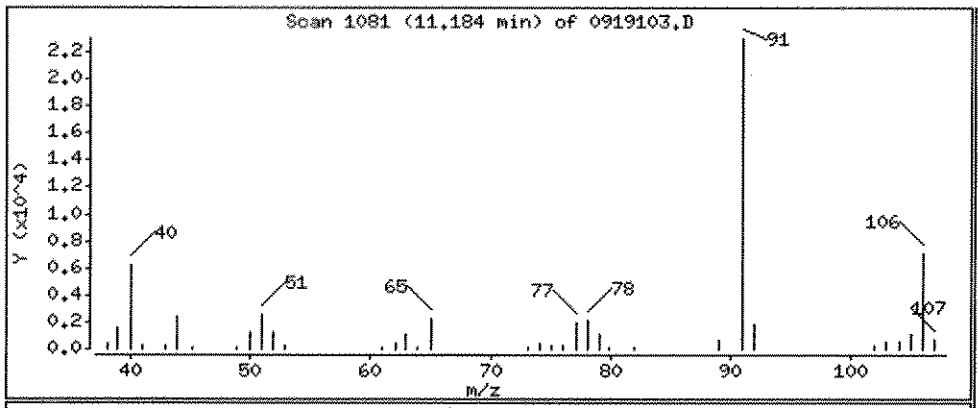
Client ID: FLC-4-SB01-0204-092 Instrument: voa5.i

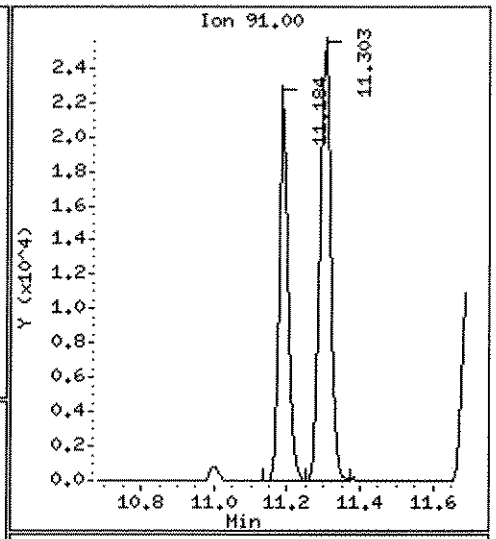
Sample Info: 1109191-03;;;;;

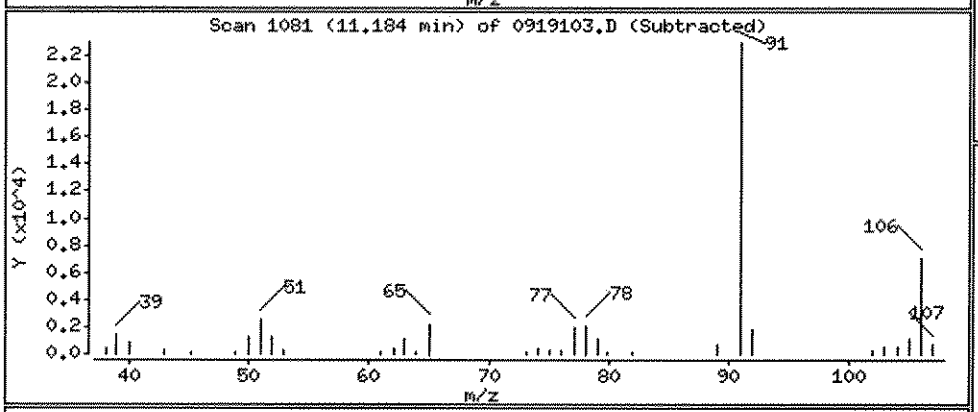
Operator: ADM

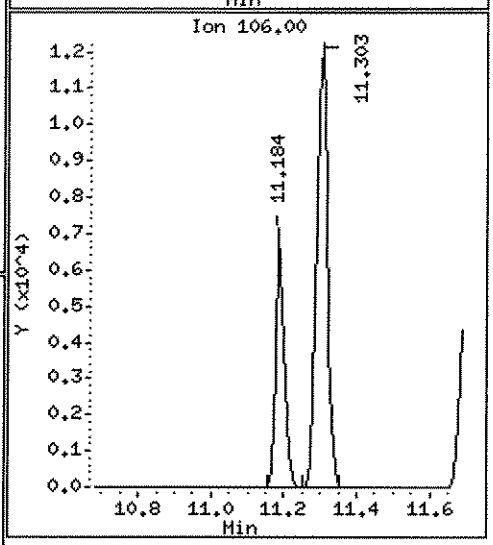
Column phase: RTX-VRX Column diameter: 0.25

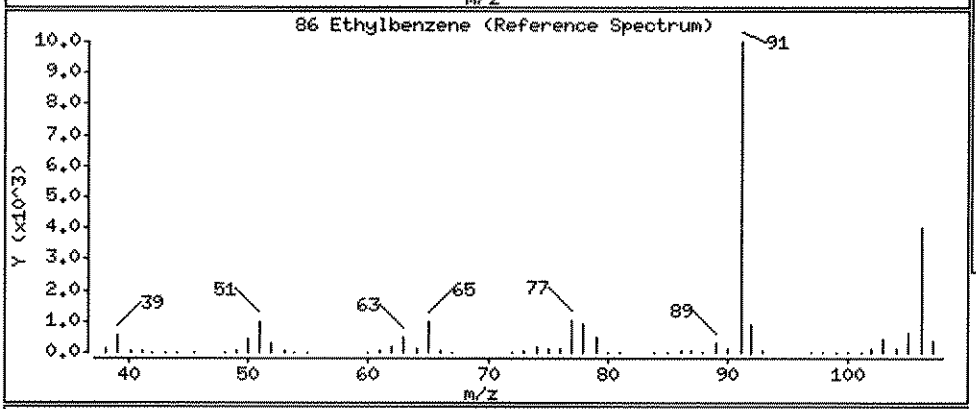
86 Ethylbenzene Concentration: 1.413 ug/Kg

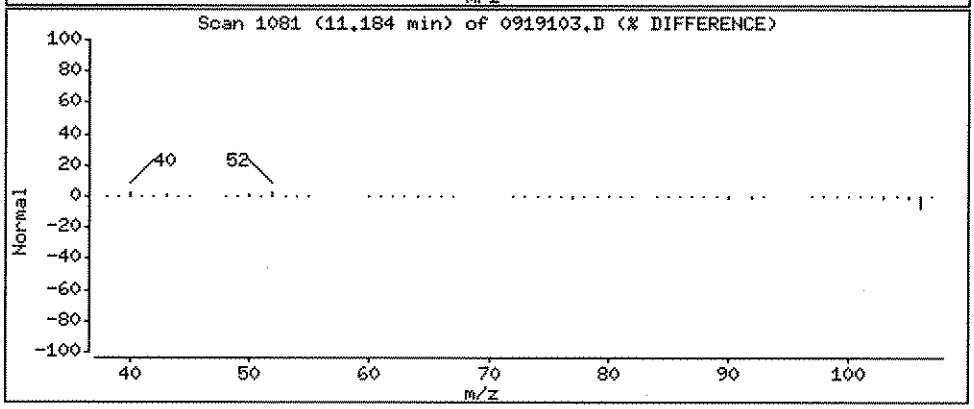












Data File: \\ELABNSH05\TARGET\chem\voa5.i\092711V5.b\0919103.D

Date : 27-SEP-2011 11:47

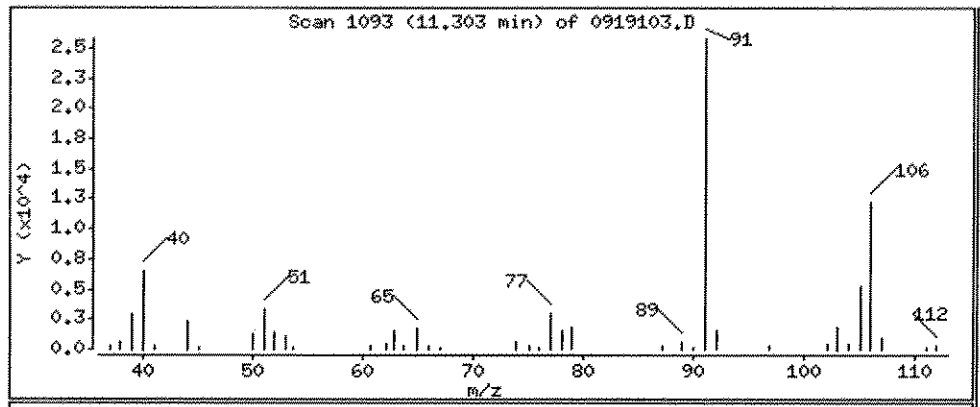
Client ID: FLC-4-SB01-0204-092 Instrument: voa5.i

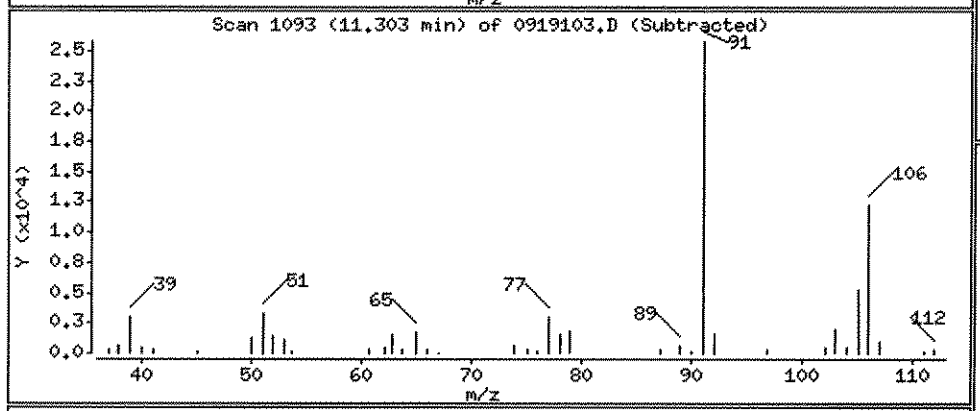
Sample Info: 1109191-03;;;;;

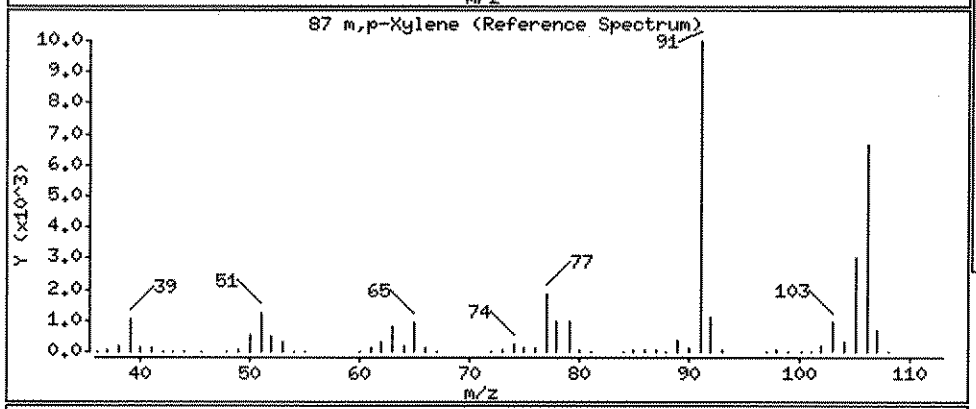
Operator: ADM

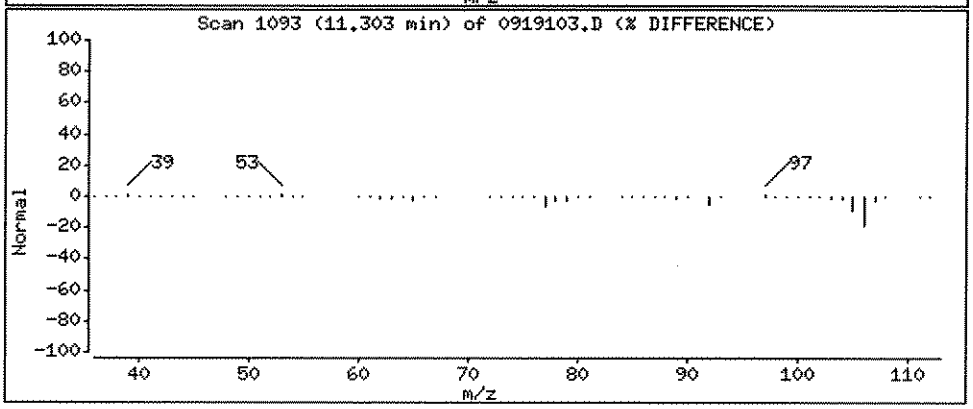
Column phase: RTX-VRX Column diameter: 0.25

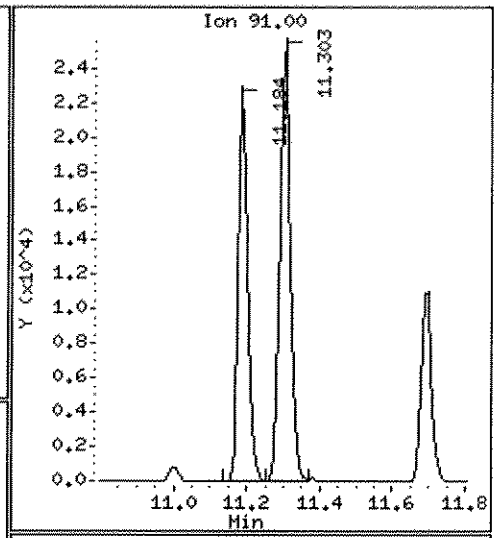
87 m,p-Xylene Concentration: 2.737 ug/Kg

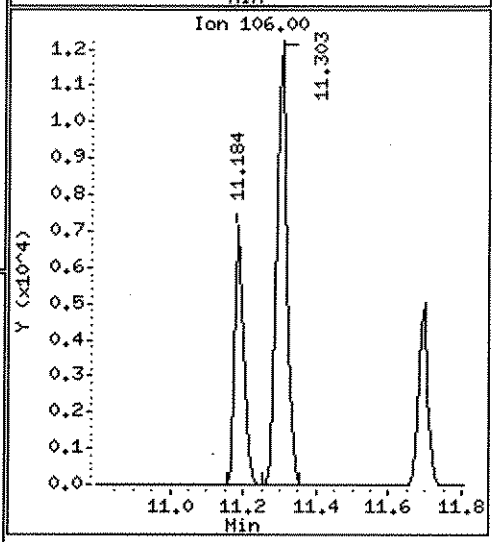












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Date : 27-SEP-2011 11:47

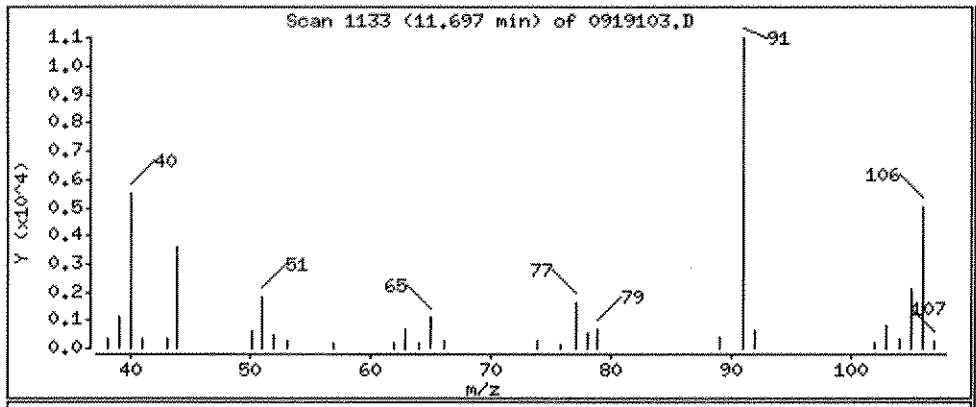
Client ID: FLC-4-SB01-0204-092 Instrument: voa5.i

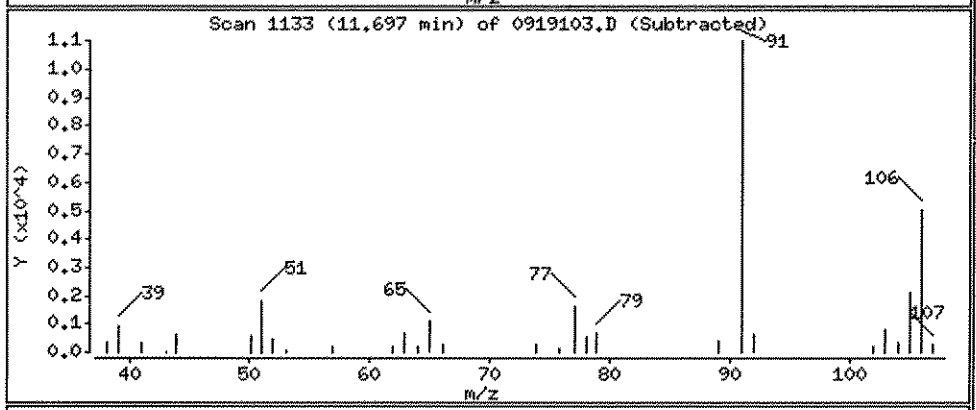
Sample Info: 1109191-03;;;;;

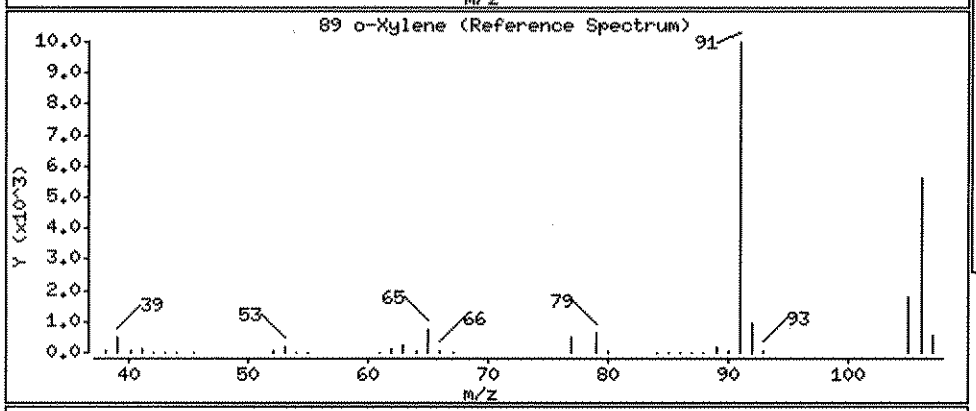
Operator: ADM

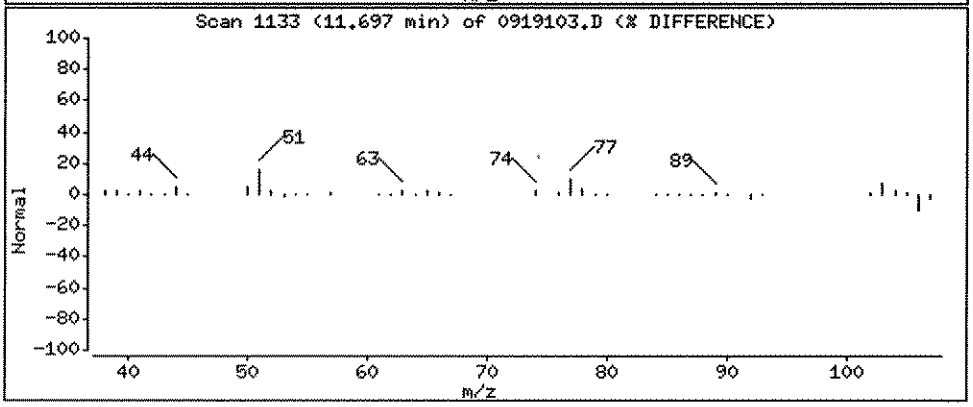
Column phase: RTX-VRX Column diameter: 0.25

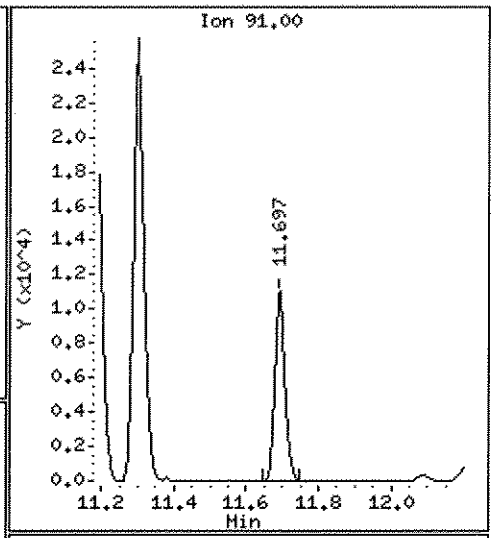
89 o-Xylene Concentration: 1.125 ug/Kg

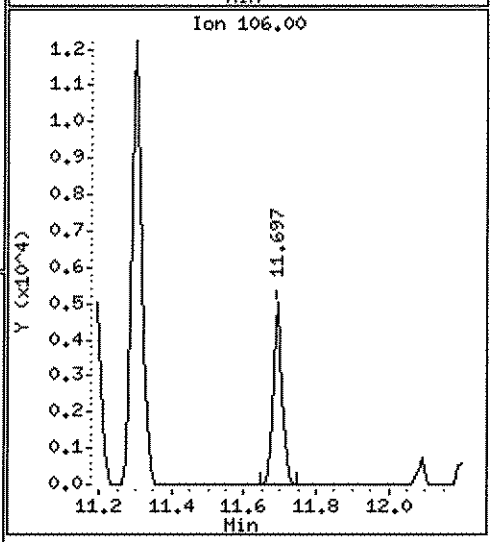












Data File: \\ELABNSH05\TARGET\chem\voa5.i\092711V5.b\0919103.D

Date : 27-SEP-2011 11:47

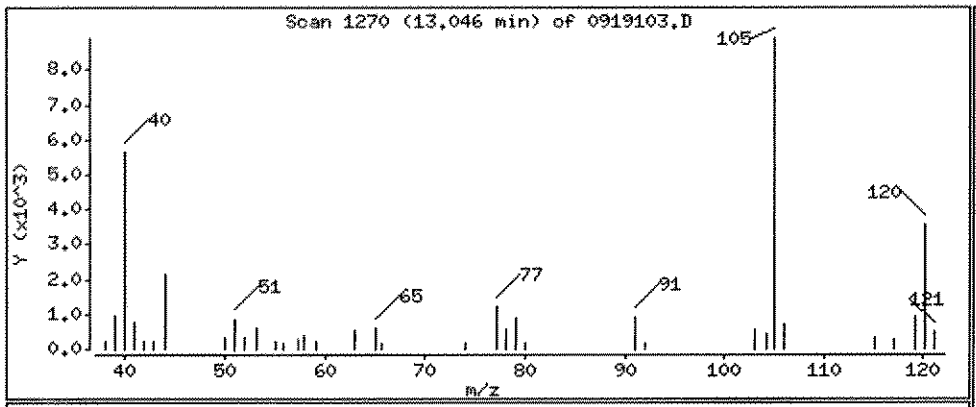
Client ID: FLC-4-SB01-0204-092 Instrument: voa5.i

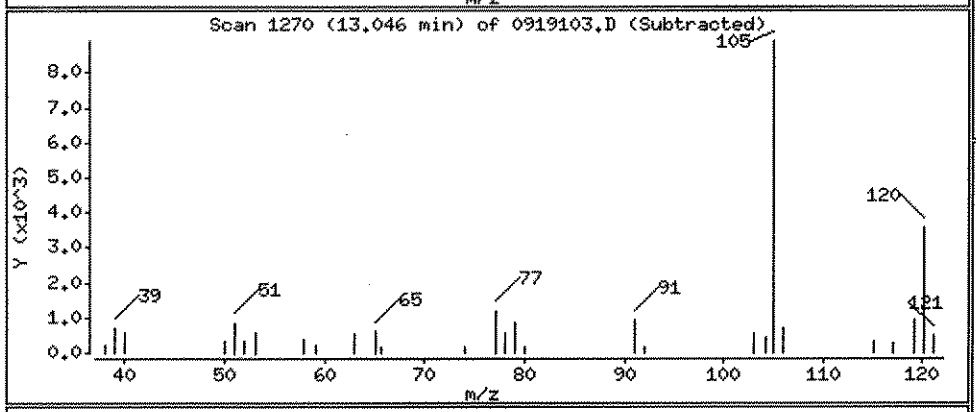
Sample Info: 1109191-03;;;;;

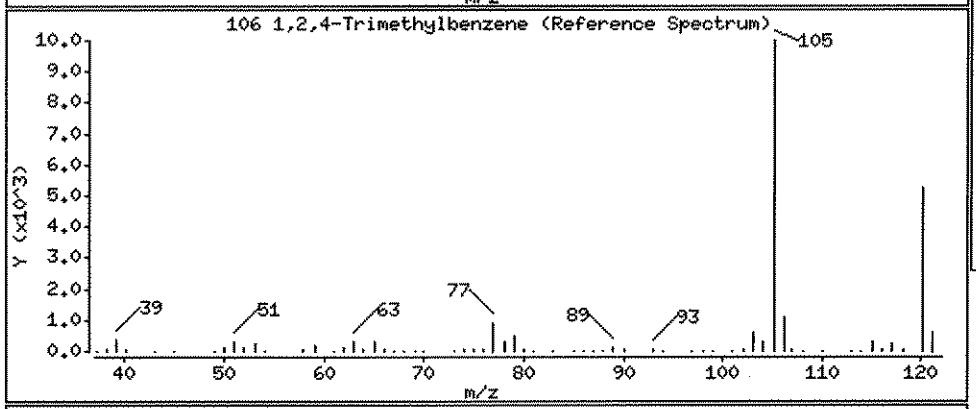
Operator: ADM

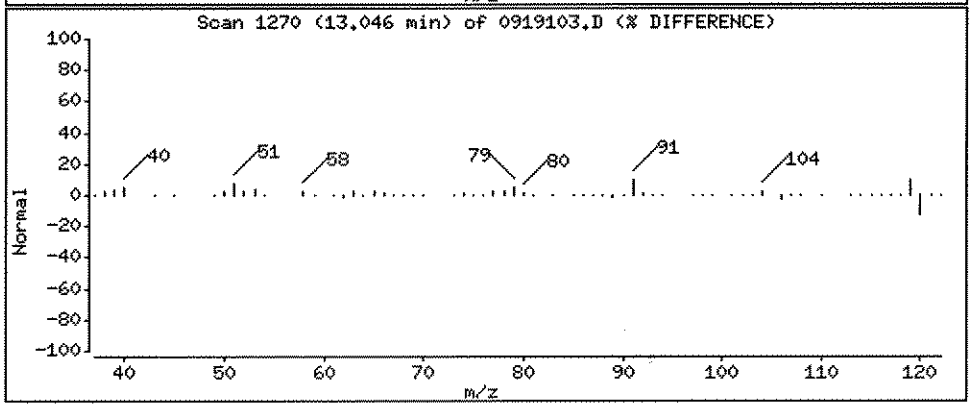
Column phase: RTX-VRX Column diameter: 0.25

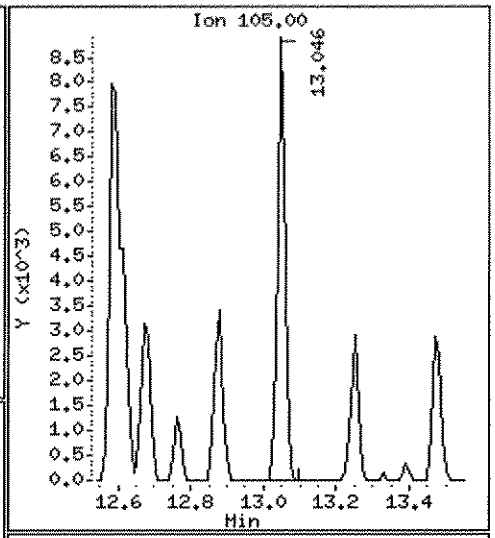
106 1,2,4-Trimethylbenzene Concentration: 0.9354 ug/Kg

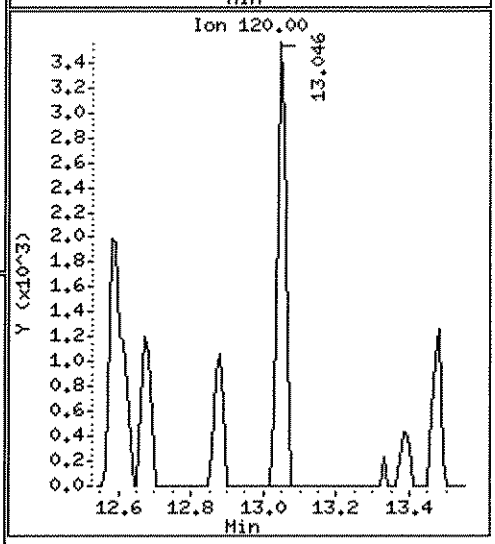












Data File: \\ELABNSH05\TARGET\chem\voa5.i\092711V5.b\0919104.D
Report Date: 28-Sep-2011 07:21

Laboratory Name

Data file : \\ELABNSH05\TARGET\chem\voa5.i\092711V5.b\0919104.D
Lab Smp Id: 1109191-04
Inj Date : 27-SEP-2011 12:14 MS Autotune Date: 28-JUL-1998 05:19
Operator : ADM Inst ID: voa5.i
Smp Info : 1109191-04;;;;;
Misc Info : ;;;;;8260.sub;
Comment :
Method : \\ELABNSH05\TARGET\chem\voa5.i\092711V5.b\VS5SUR.m
Meth Date : 28-Sep-2011 07:17 amonteiro Quant Type: ISTD
Cal Date : 22-SEP-2011 14:24 Cal File: 0922CAL1.D
Als bottle: 12
Dil Factor: 1.00000
Integrator: HP RTE Compound Sublist: 8260.sub
Target Version: 4.04
Processing Host: TARGET02_VM

Concentration Formula: Amt * DF * 5*Uf/(Ws*(Solids/100))

Name	Value	Description
DF	1.000	Dilution Factor
Uf	1.000	unit correction factor
Ws	5.000	Weight of sample extracted (g)
Solids	100.000	Percent Solids

MG 9/28/11
Ken B.
IS/Sur out

9-29-11

Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS ON-COLUMN (ug/Kg)	FINAL (ug/Kg)
* 55 Fluorobenzene	96	7.870	7.864	(1.000)	664438	30.0000	
10 Acetonitrile	41	3.773	3.767	(0.479)	8417	8.81190	8.812
9 Acetone	43	3.684	3.688	(0.468)	350264	170.739	170.7
14 t-Butyl alcohol	59	4.295	4.299	(0.546)	2439	4.48802	4.488(Q)
20 Methylene chloride	84	4.649	4.643	(0.591)	46330	5.99365	5.994
34 2-Butanone	43	6.137	6.141	(0.780)	32565	9.02156	9.022(a)
29 Hexane	57	5.910	5.904	(0.751)	11681	1.00447	1.004
$ 44 Dibromofluoromethane	111	6.836	6.840	(0.869)	188363	33.1027	33.10
$ 48 1,2-Dichloroethane-d4	102	7.338	7.332	(0.932)	37853	32.3769	32.38
53 Benzene	78	7.604	7.598	(0.966)	30279	1.18395	1.184
$ 71 Toluene-d8	98	9.565	9.568	(0.869)	524062	35.2239	35.22(R)
74 Toluene	92	9.643	9.647	(0.876)	30740	2.86310	2.863
77 2-Hexanone	43	9.949	9.943	(0.904)	13993	4.06358	4.064(aH)
* 82 Chlorobenzene-d5	82	11.003	10.997	(1.000)	226416	30.0000	
86 Ethylbenzene	91	11.180	11.184	(1.016)	32285	1.64184	1.642

Data File: \\ELABNSH05\TARGET\chem\voa5.i\092711V5.b\0919104.D
Report Date: 28-Sep-2011 07:21

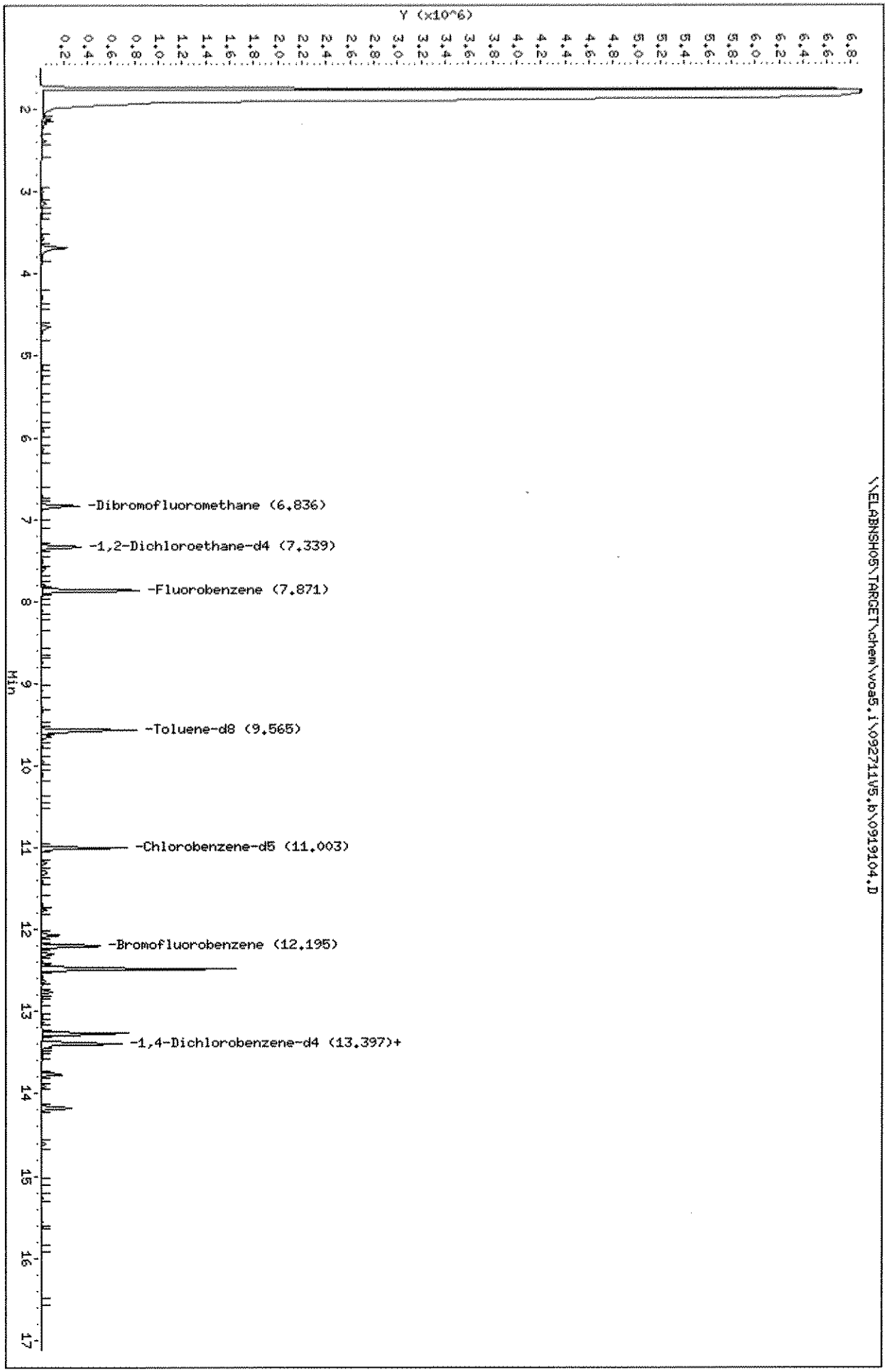
Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS ON-COLUMN (ug/Kg)	FINAL (ug/Kg)
87 m,p-Xylene	91	11.298	11.302	(1.027)	31713	2.33173	2.332
M 119 Xylene(total)	91				31713	2.33173	2.332
$ 97 Bromofluorobenzene	95	12.195	12.199	(1.108)	159032	25.3281	25.33(R)
106 1,2,4-Trimethylbenzene	105	13.042	13.046	(0.974)	4697	0.77941	0.7794(a)
107 sec-Butylbenzene	105	13.268	13.252	(0.990)	31686	3.54203	3.542
* 110 1,4-Dichlorobenzene-d4	152	13.396	13.400	(1.000)	85520	30.0000	(Q)
113 n-Butylbenzene	91	13.771	13.784	(1.028)	28494	4.50346	4.503
109 p-Isopropyltoluene	119	13.386	13.390	(0.999)	230208	39.3872	39.39

QC Flag Legend

a - Target compound detected but, quantitated amount Below Limit Of Quantitation(BLOQ).
Q - Qualifier signal failed the ratio test.
R - Spike/Surrogate failed recovery limits.
H - Operator selected an alternate compound hit.

Data File: \\ELABNSH05\TARGET\chem\voa5.i\092711V5.b\0919104.D
Date : 27-SEP-2011 12:14
Client ID:
Sample Info: 1109191-04;;;;;
Column phase: RTX-VRX

Instrument: voa5.i
Operator: ADM
Column diameter: 0.25



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Date : 27-SEP-2011 12:14

Client ID:

Instrument: voa5.i

Sample Info: 1109191-04;;;;;

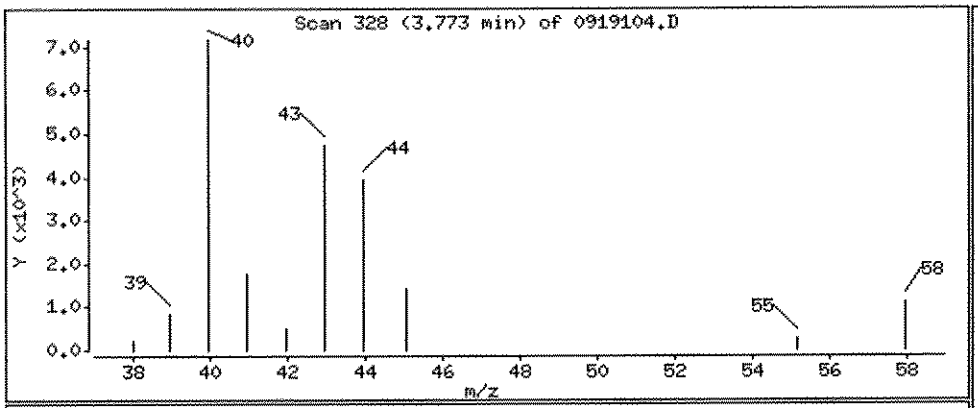
Operator: ADM

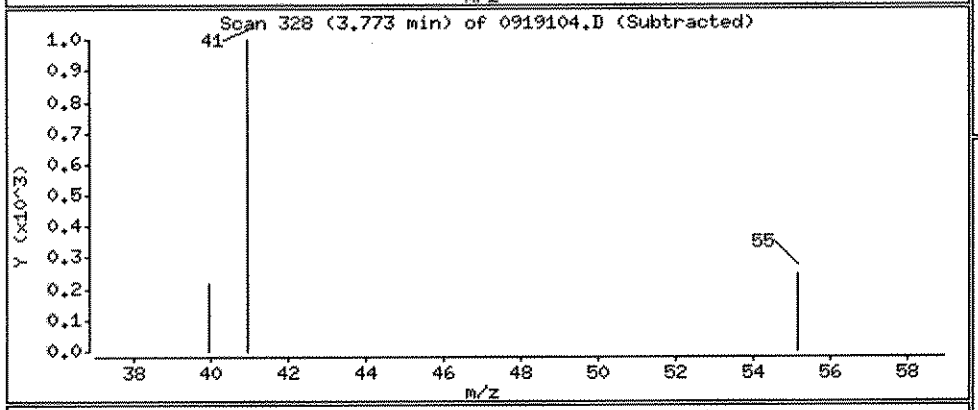
Column phase: RTX-VRX

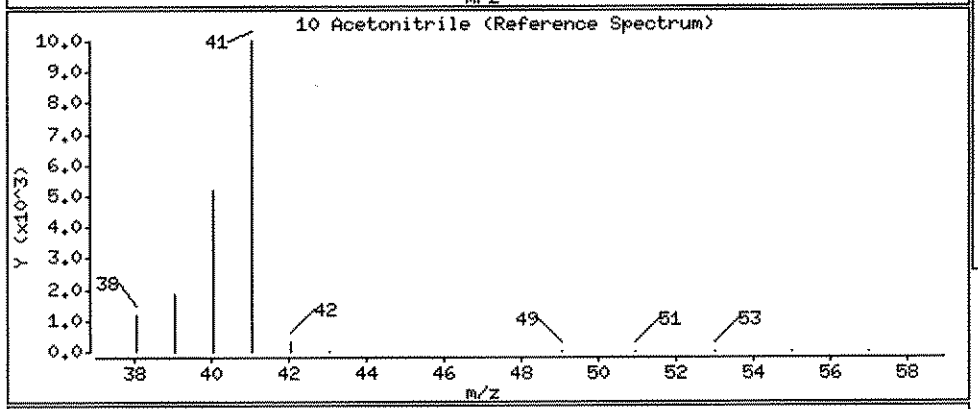
Column diameter: 0.25

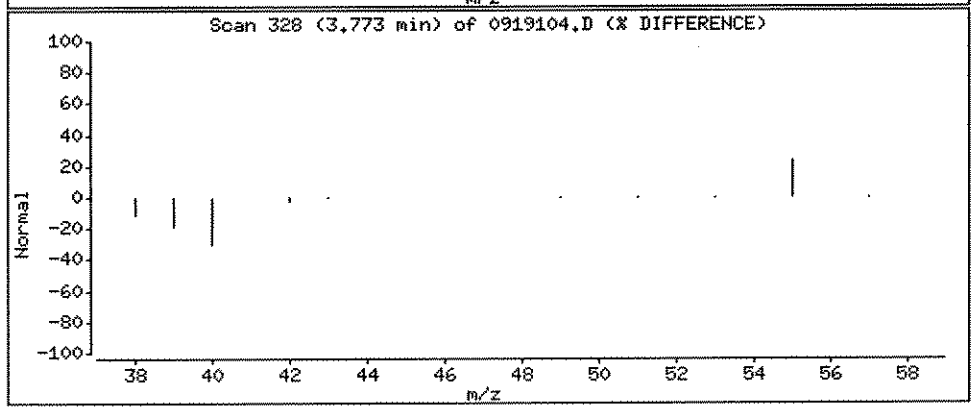
10 Acetonitrile

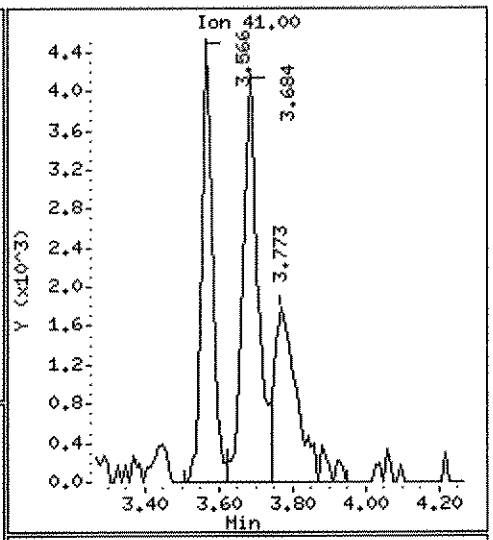
Concentration: 8.812 ug/Kg

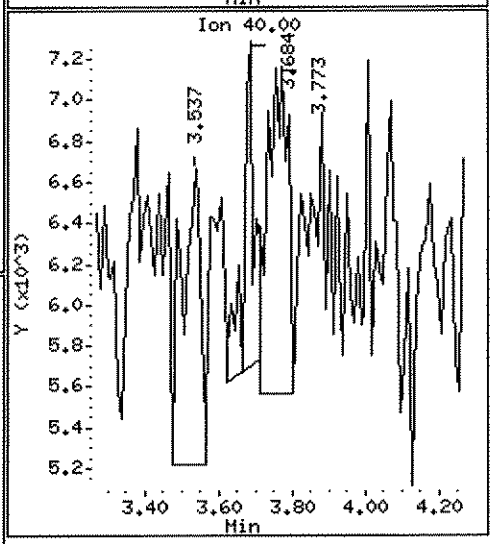












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Date : 27-SEP-2011 12:14

Client ID:

Instrument: voa5.i

Sample Info: 1109191-04;;;;;

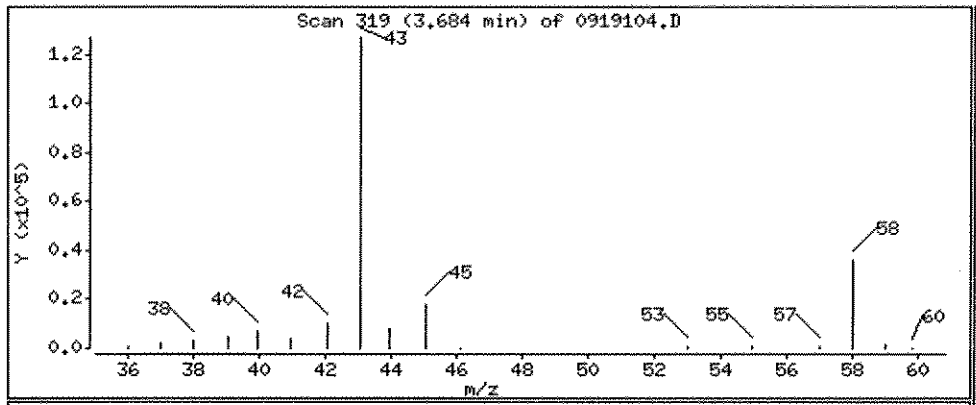
Operator: ADH

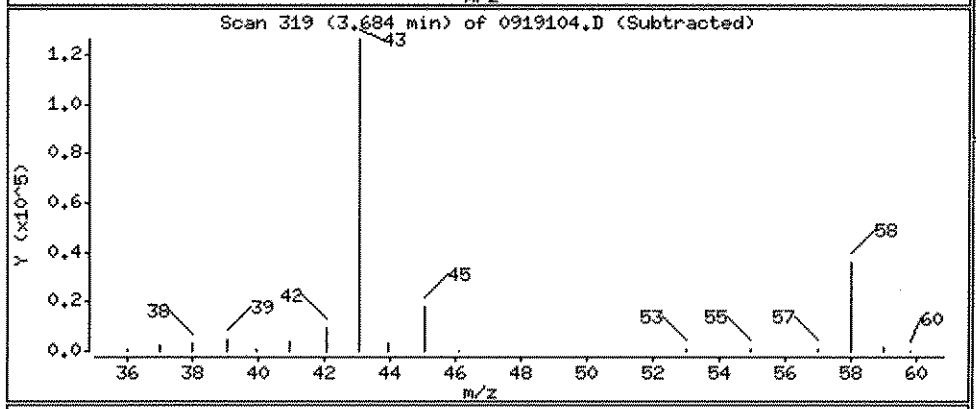
Column phase: RTX-VRX

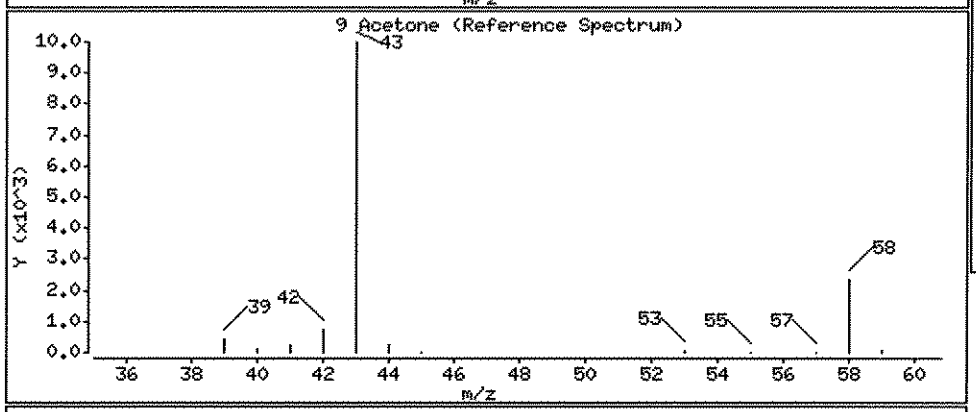
Column diameter: 0.25

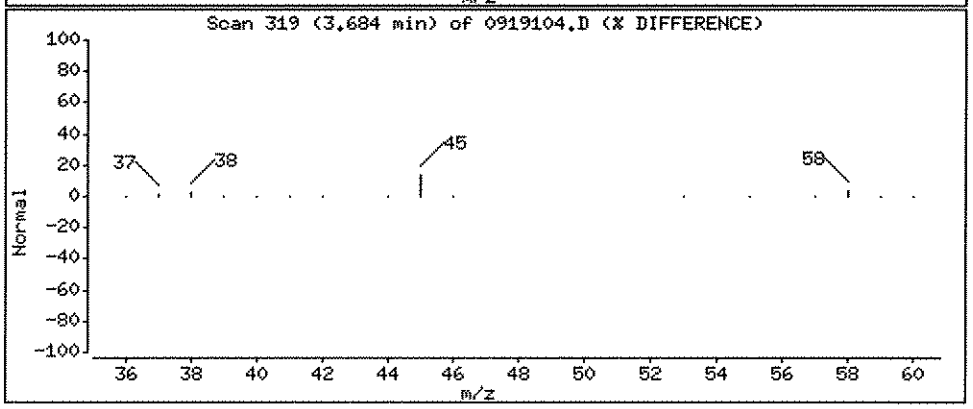
9 Acetone

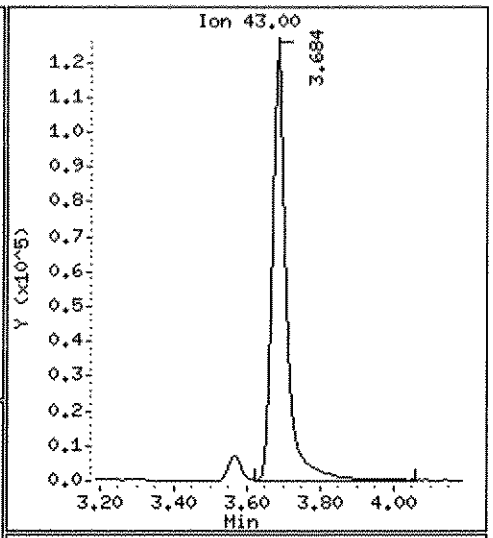
Concentration: 170.7 ug/Kg

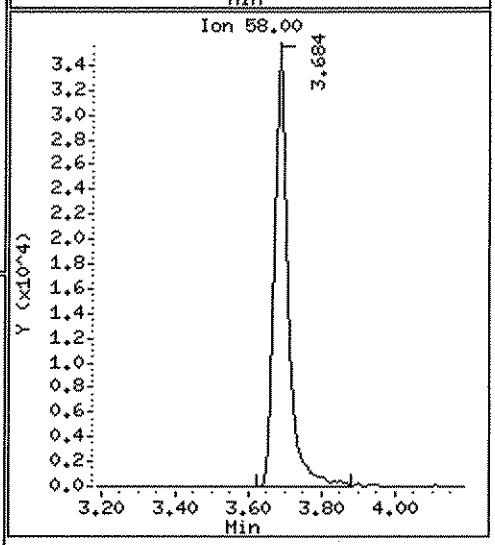












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Date : 27-SEP-2011 12:14

Client ID:

Instrument: voa5.i

Sample Info: 1109191-04;;;;;

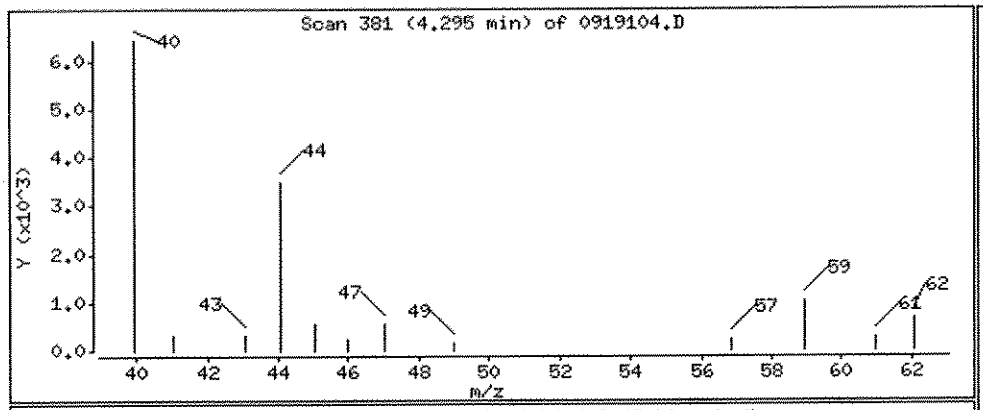
Operator: ADM

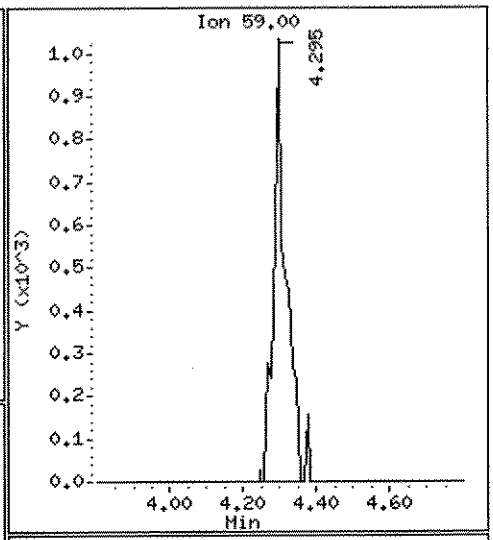
Column phase: RTX-VRX

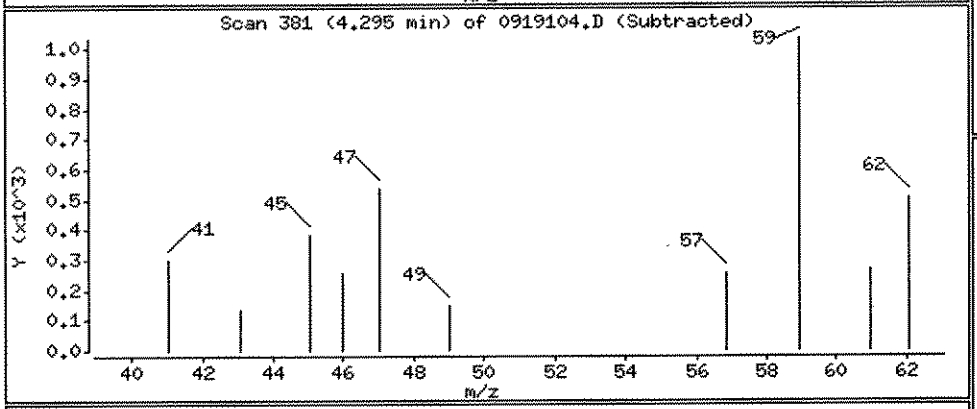
Column diameter: 0.25

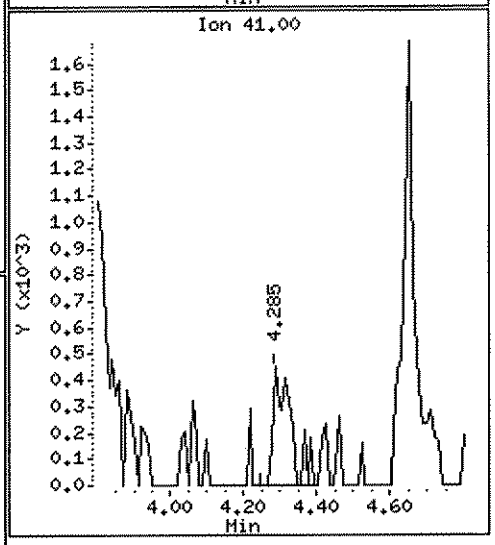
14 t-Butyl alcohol

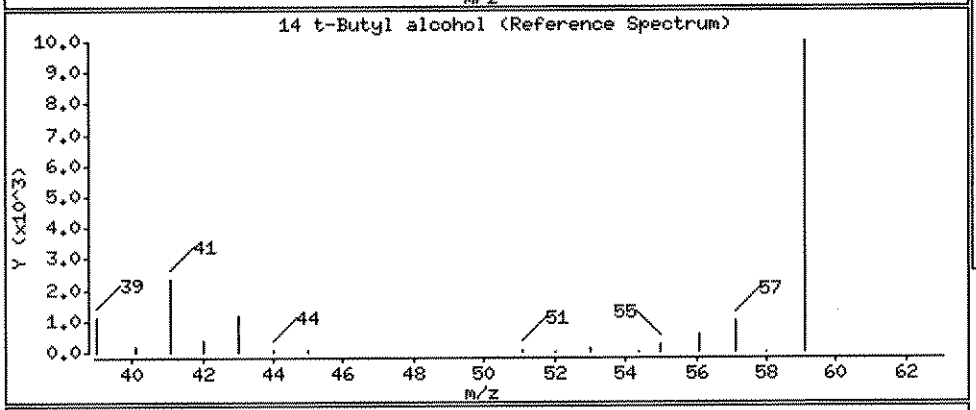
Concentration: 4.488 ug/Kg

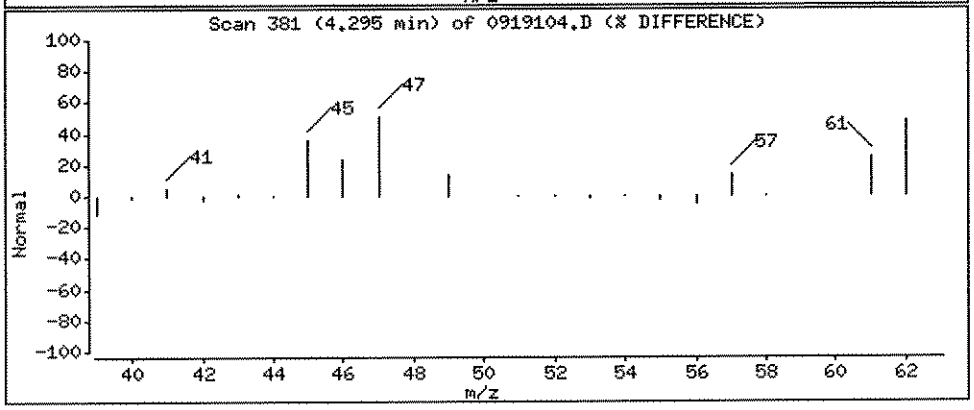












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Date : 27-SEP-2011 12:14

Client ID:

Instrument: voa5.i

Sample Info: 1109191-04;;;;;

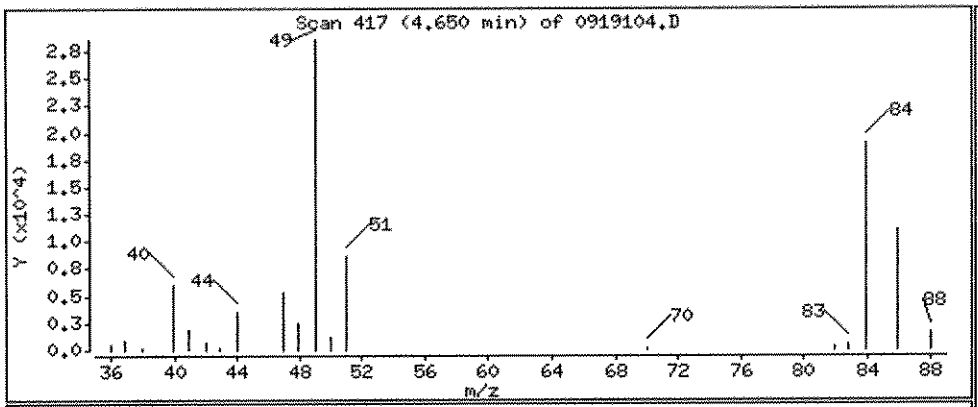
Operator: ADM

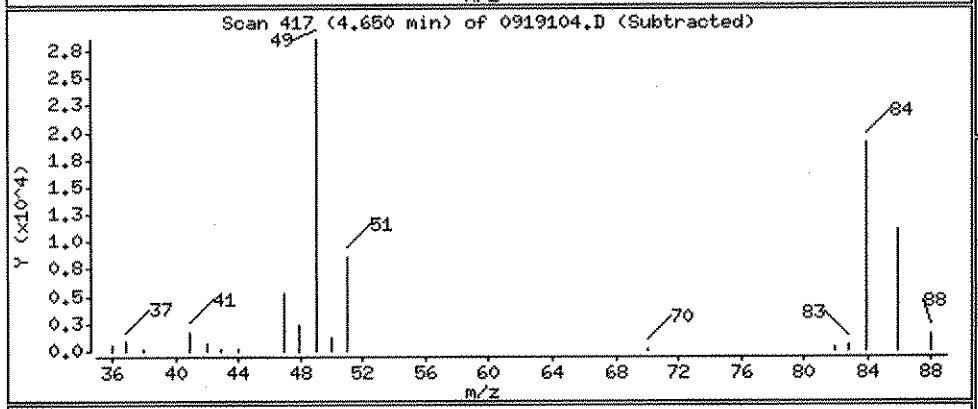
Column phase: RTX-VRX

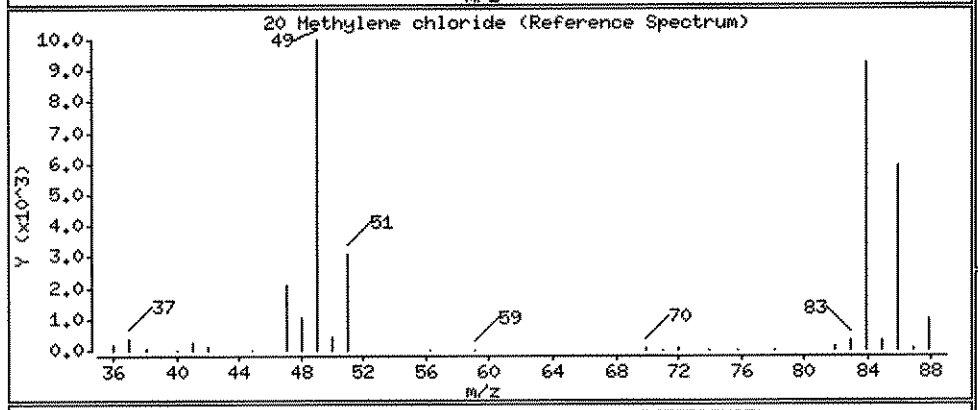
Column diameter: 0.25

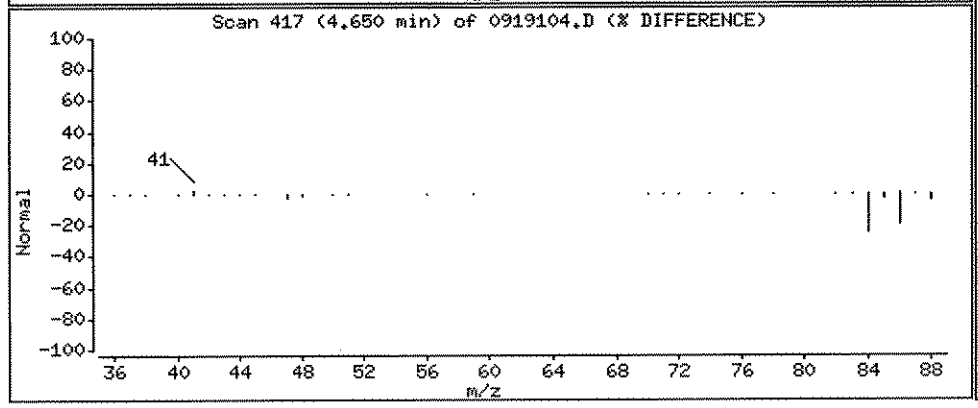
20 Methylene chloride

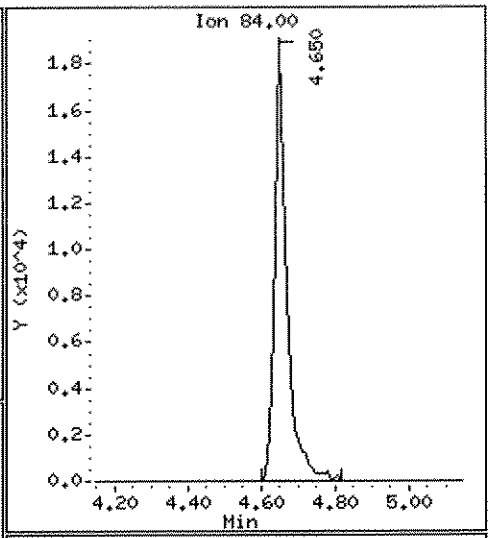
Concentration: 5.994 ug/Kg

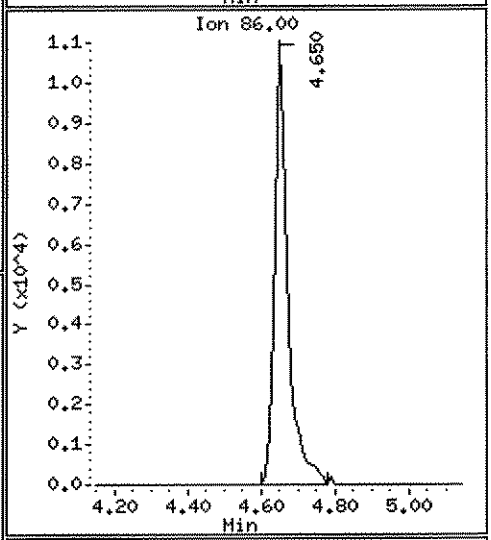


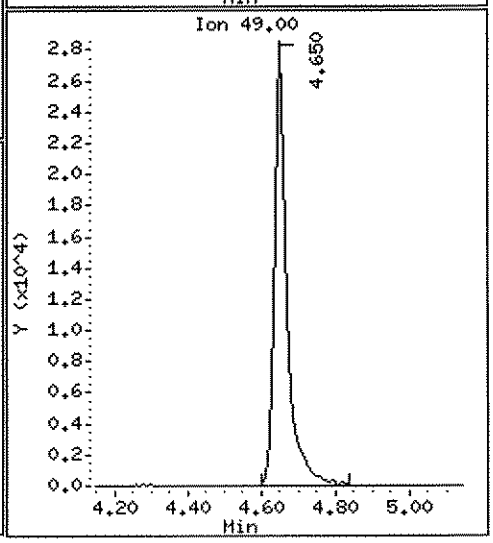












Data File: \\ELABNSH05\TARGET\chem\voa5.i\092711V5.b\0919104.D

Date : 27-SEP-2011 12:14

Client ID:

Instrument: voa5.i

Sample Info: 1109191-04;;;;;

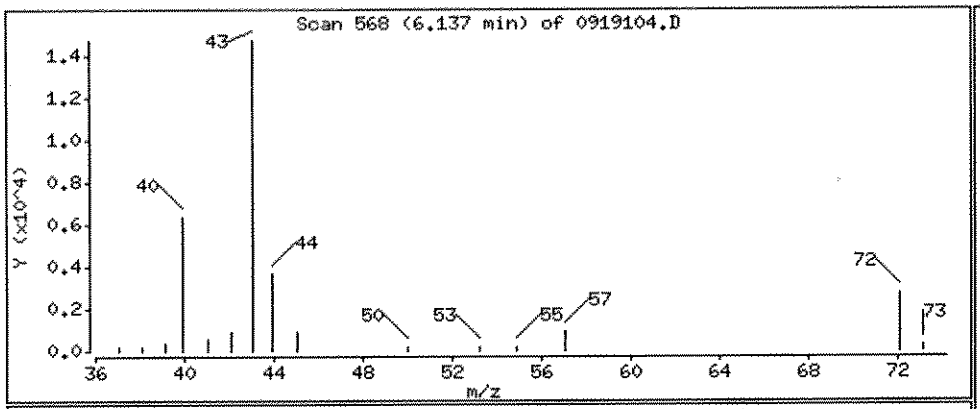
Operator: ADM

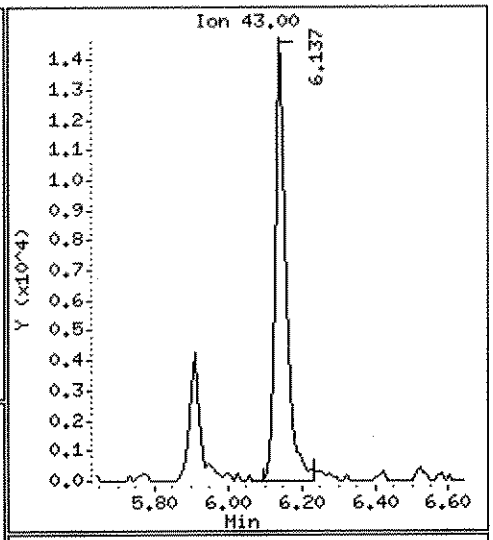
Column phase: RTX-VRX

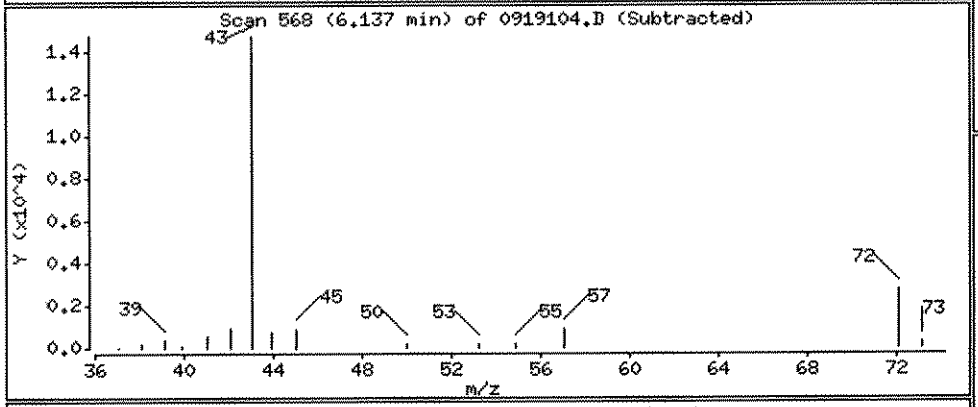
Column diameter: 0.25

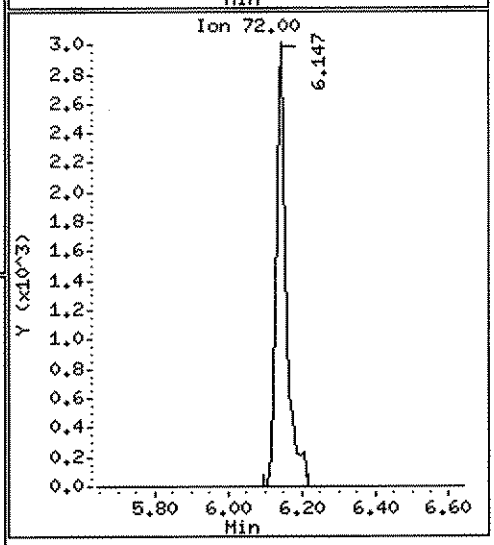
34 2-Butanone

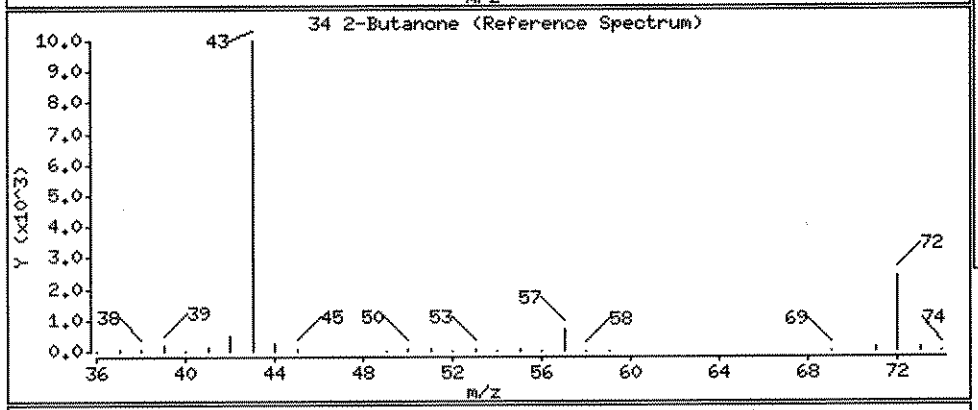
Concentration: 9.022 ug/Kg

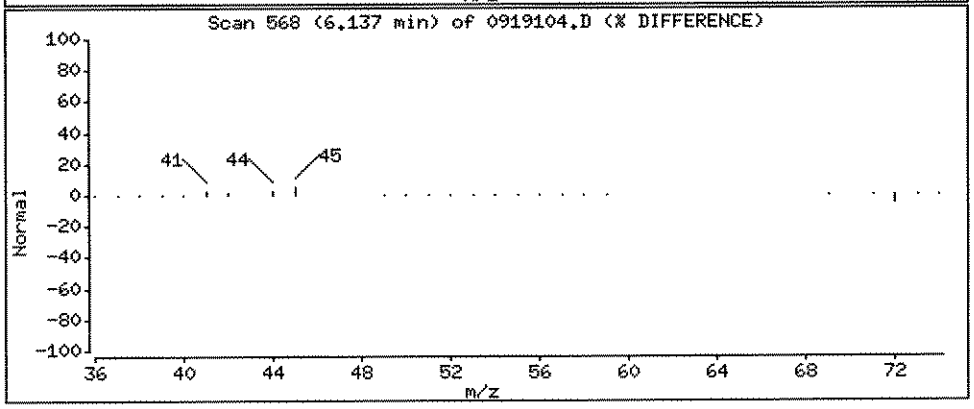












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Date : 27-SEP-2011 12:14

Client ID:

Instrument: voa5.i

Sample Info: 1109191-04;;;;;

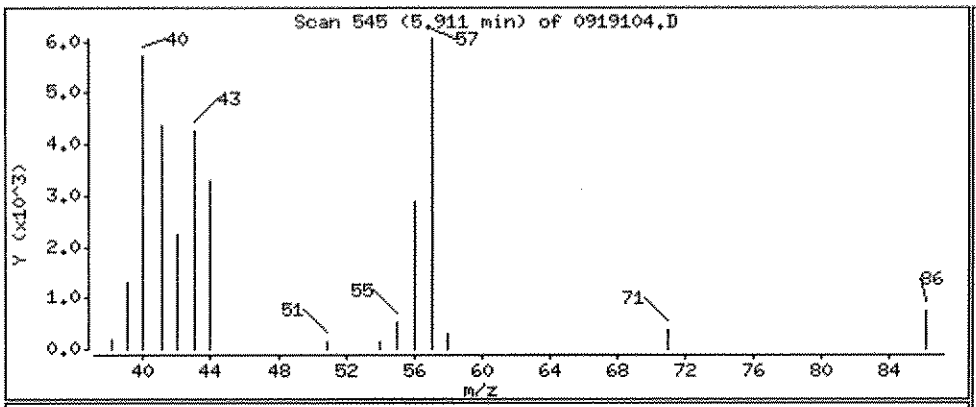
Operator: ADM

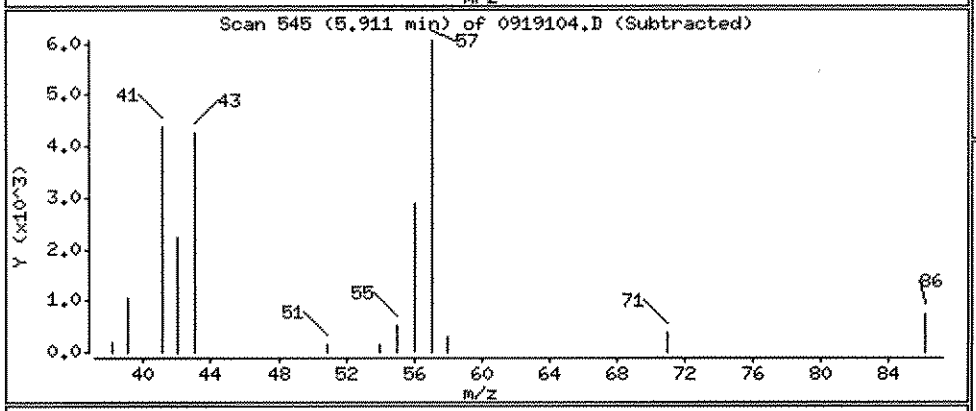
Column phase: RTX-VRX

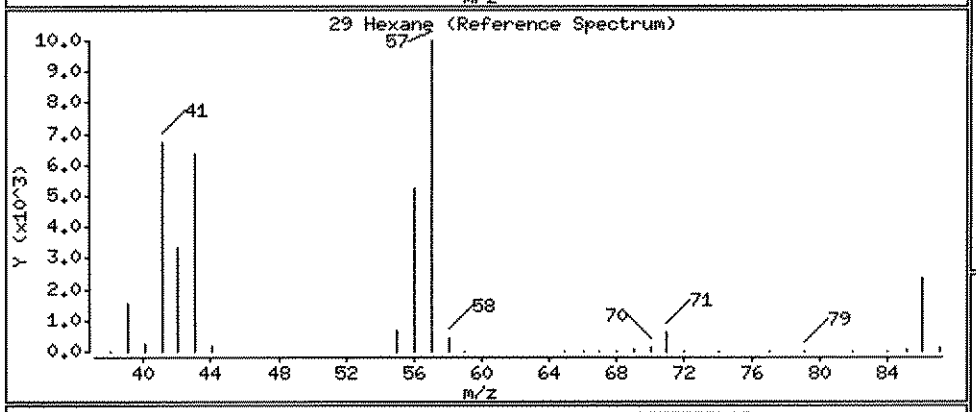
Column diameter: 0.25

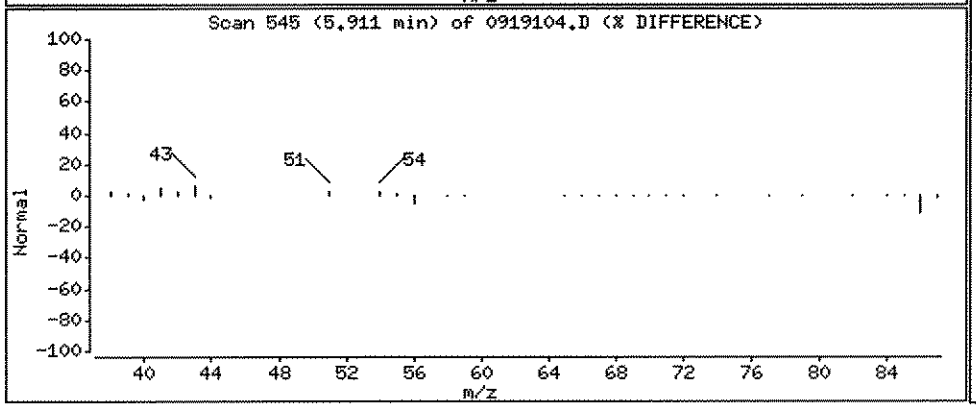
29 Hexane

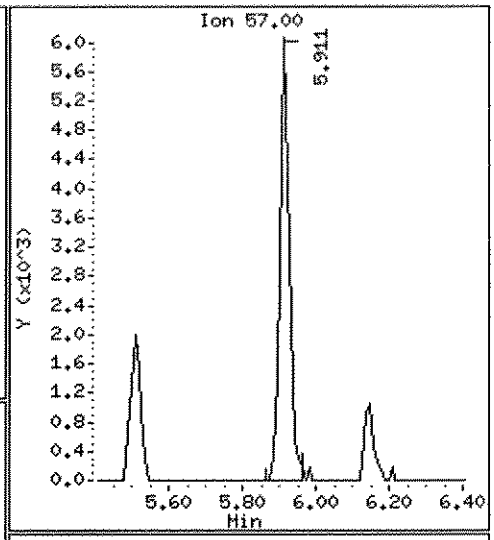
Concentration: 1.004 ug/Kg

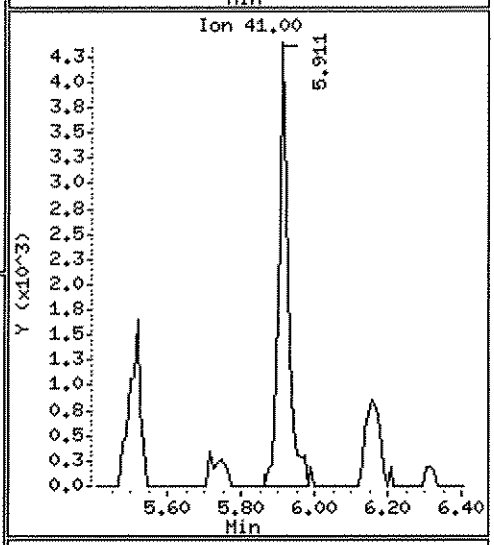


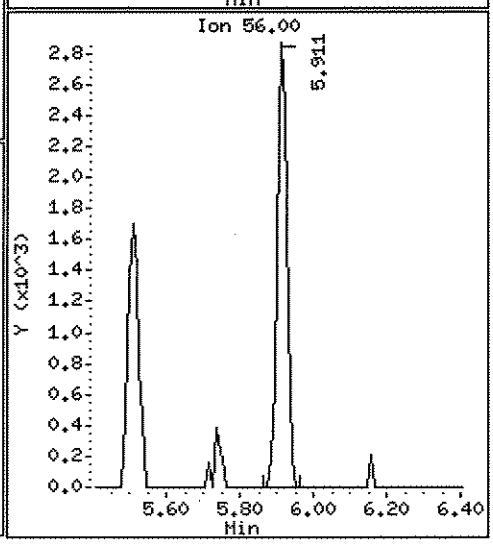












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Date : 27-SEP-2011 12:14

Client ID:

Instrument: voa5.i

Sample Info: 1109191-04;;;;;

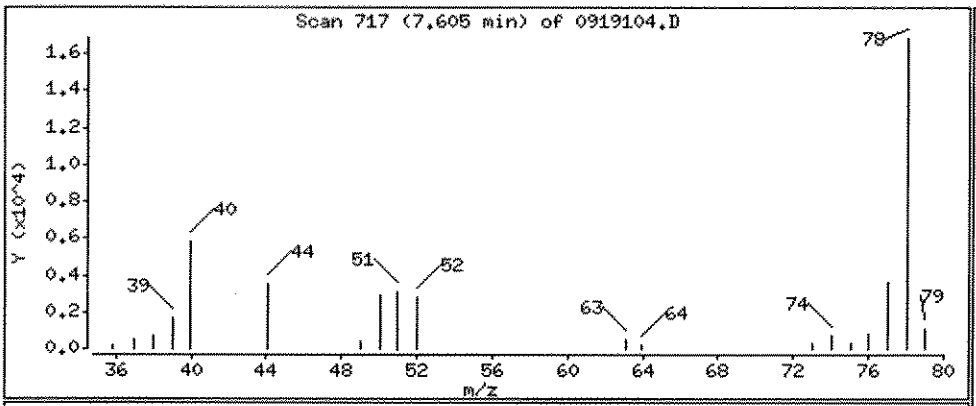
Operator: ADM

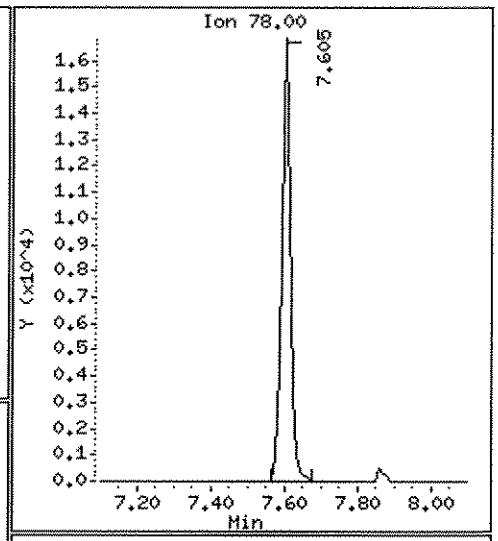
Column phase: RTX-VRX

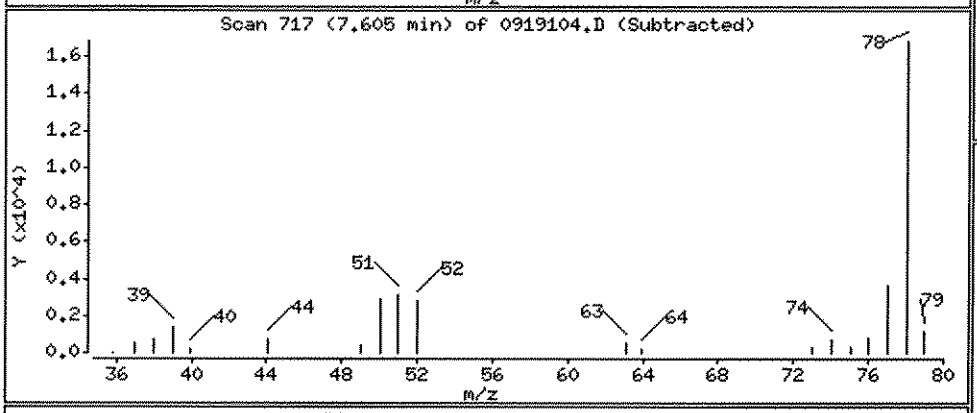
Column diameter: 0.25

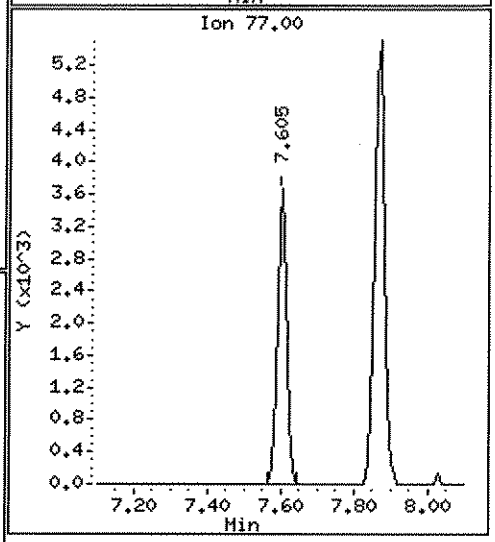
53 Benzene

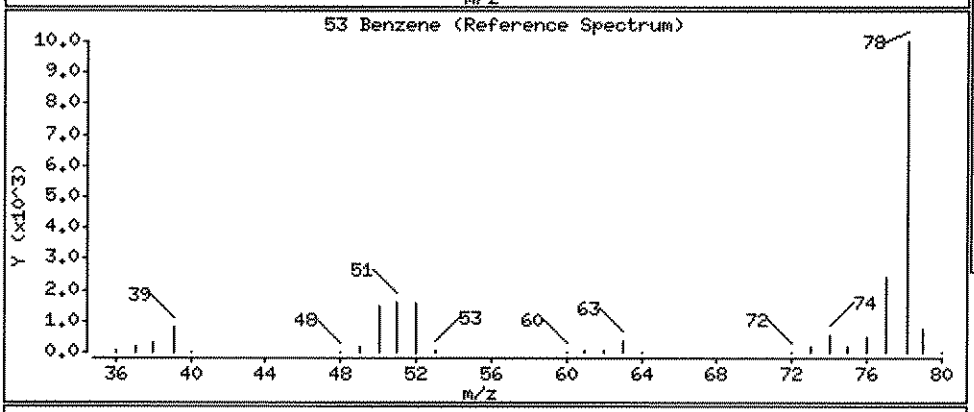
Concentration: 1.184 ug/Kg

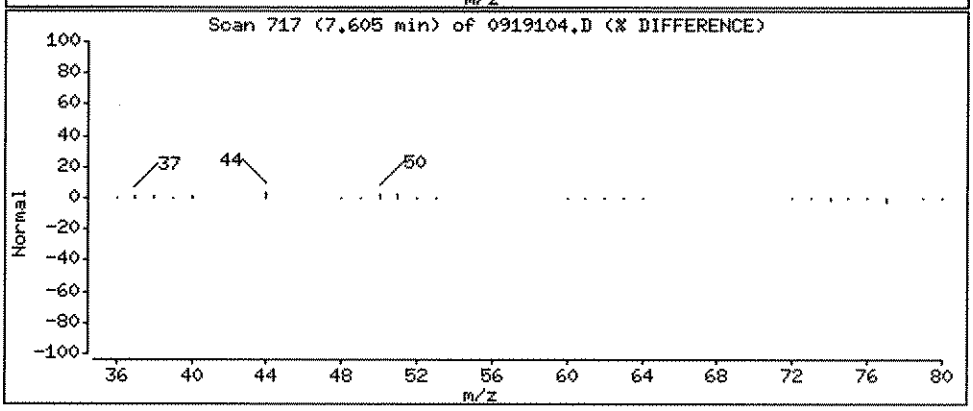












Data File: \\ELABNSH05\TARGET\chem\voa5.i\092711V5.b\0919104.D

Date : 27-SEP-2011 12:14

Client ID:

Instrument: voa5.i

Sample Info: 1109191-04;;;;;

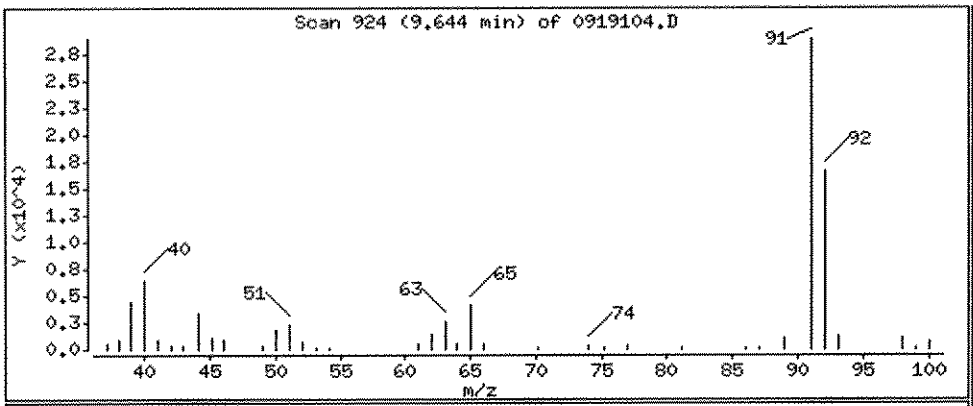
Operator: ADM

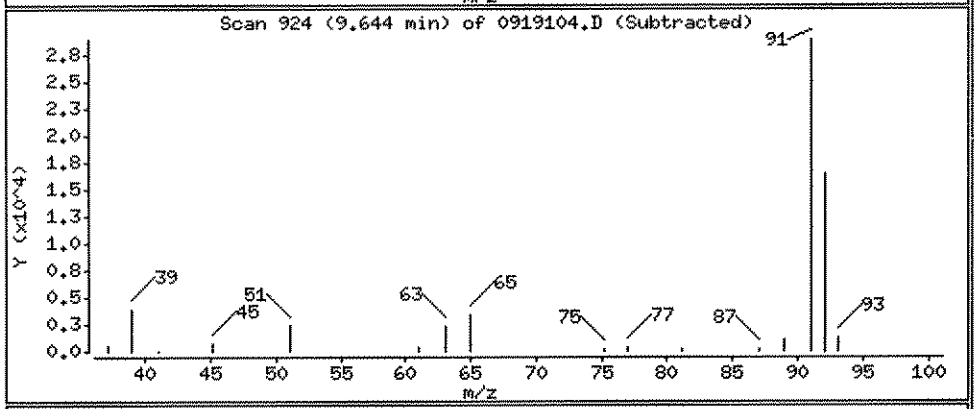
Column phase: RTX-VRX

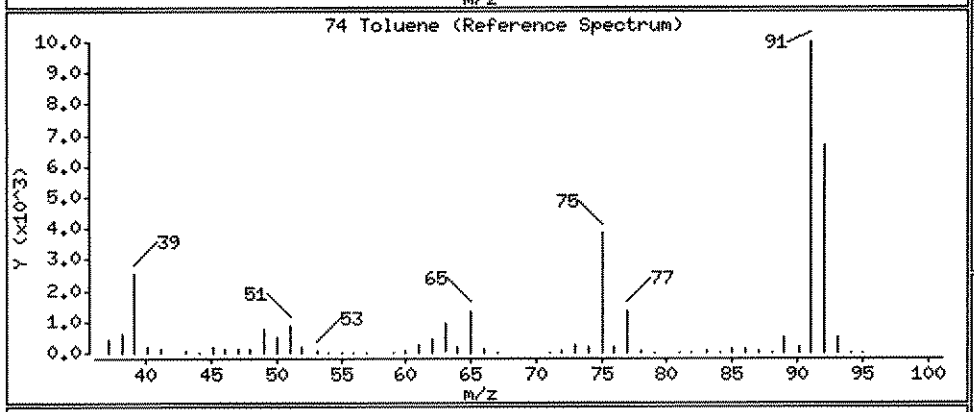
Column diameter: 0.25

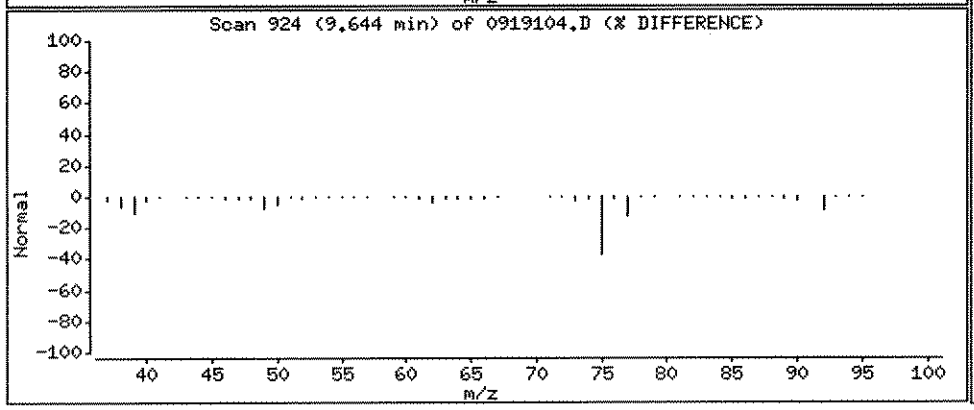
74 Toluene

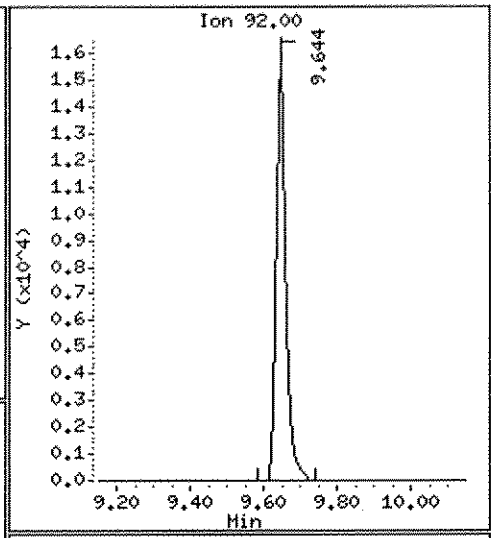
Concentration: 2.863 ug/Kg

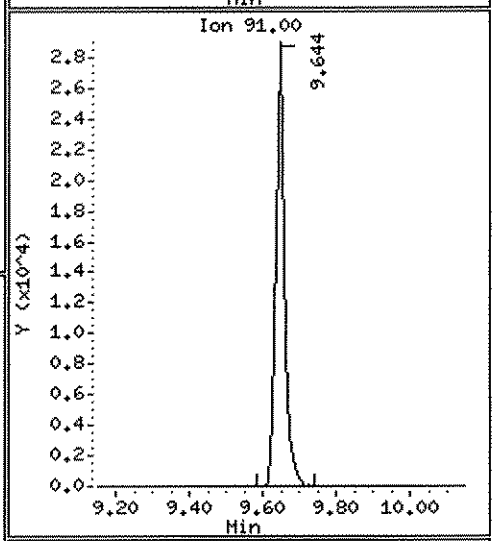


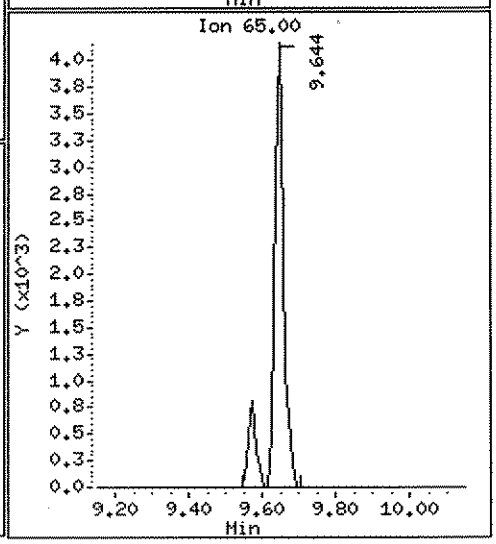












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Date : 27-SEP-2011 12:14

Client ID:

Instrument: voa5.i

Sample Info: 1109191-04;;;;;

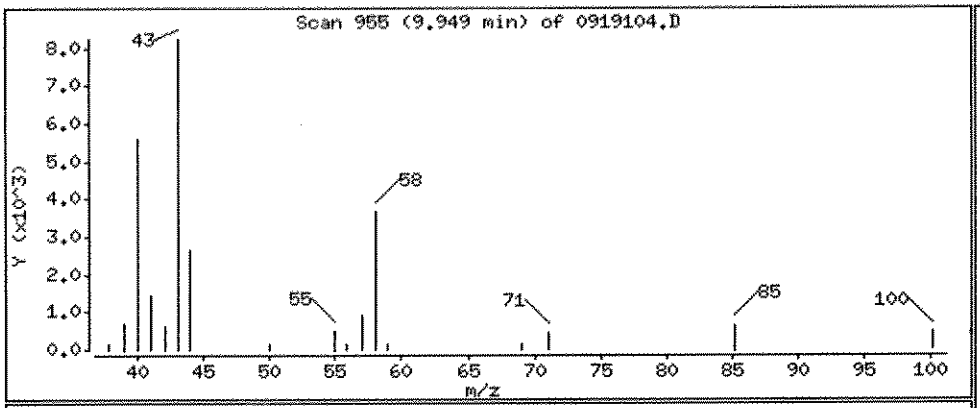
Operator: ADM

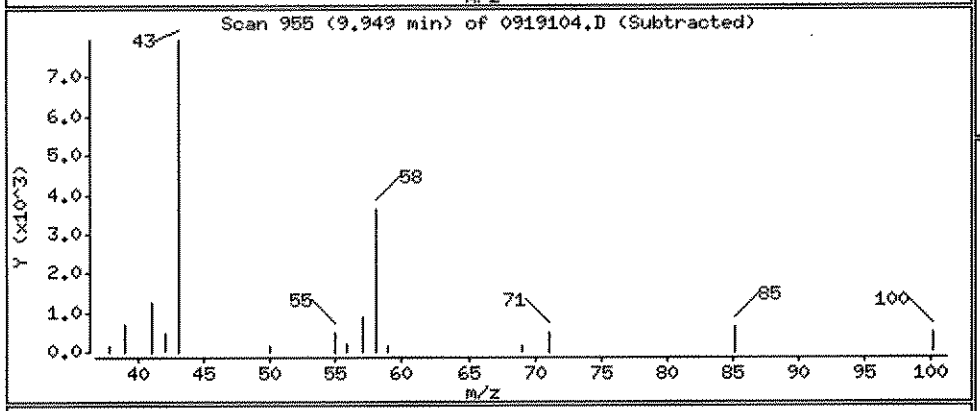
Column phase: RTX-VRX

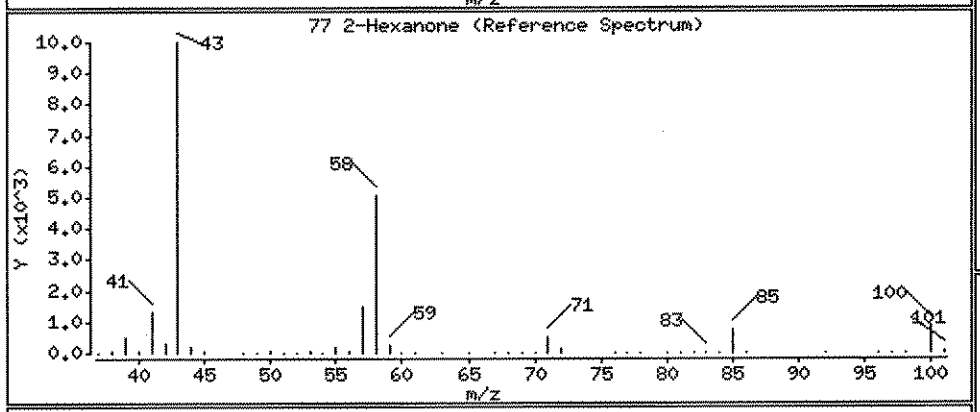
Column diameter: 0.25

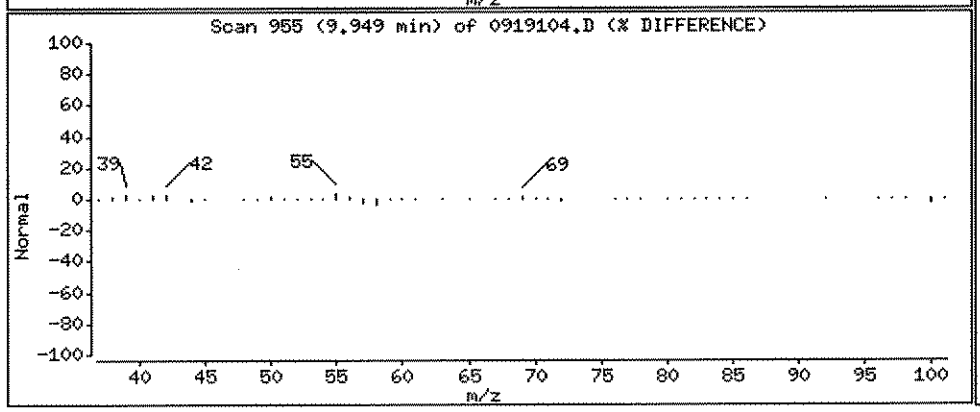
77 2-Hexanone

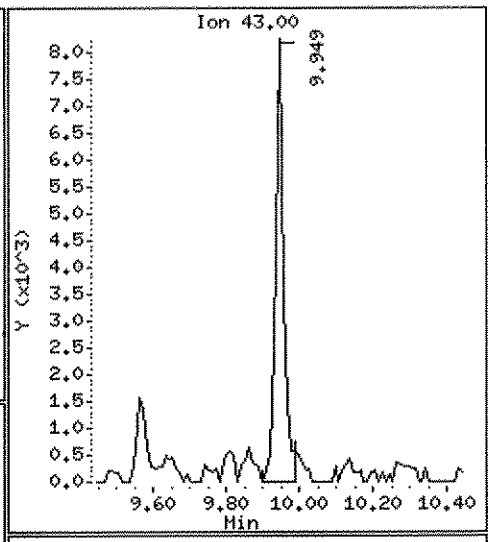
Concentration: 4.064 ug/Kg

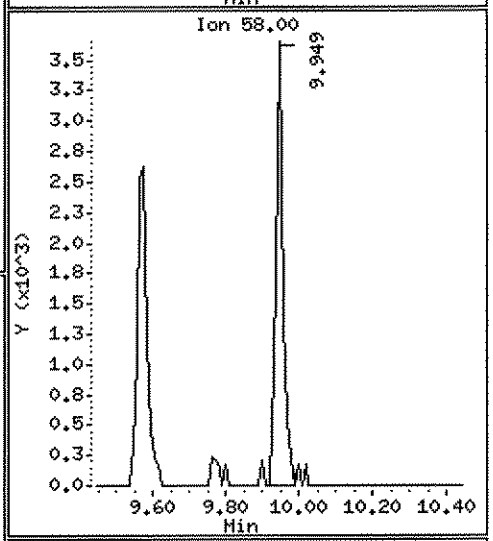


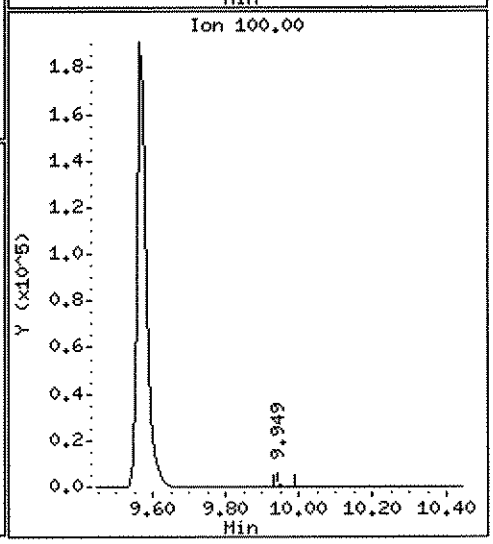












Data File: \\ELABNSH05\TARGET\chem\voa5.i\092711V5.b\0919104.D

Date : 27-SEP-2011 12:14

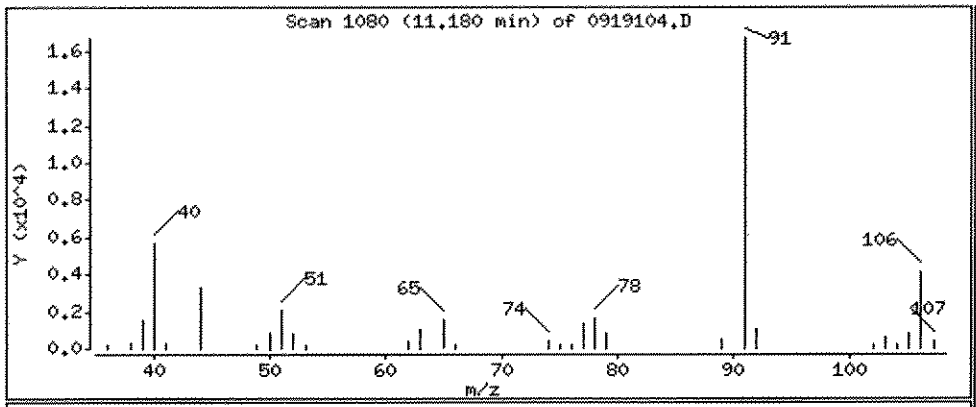
Client ID: Instrument: voa5.i

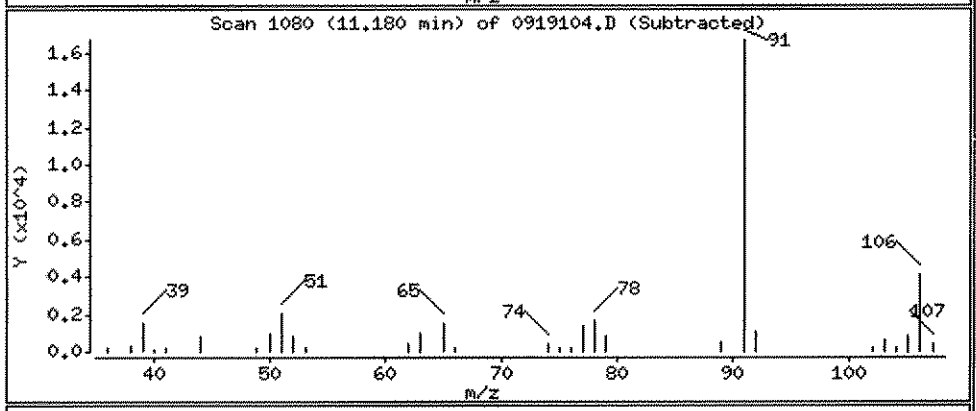
Sample Info: 1109191-04;;;;;

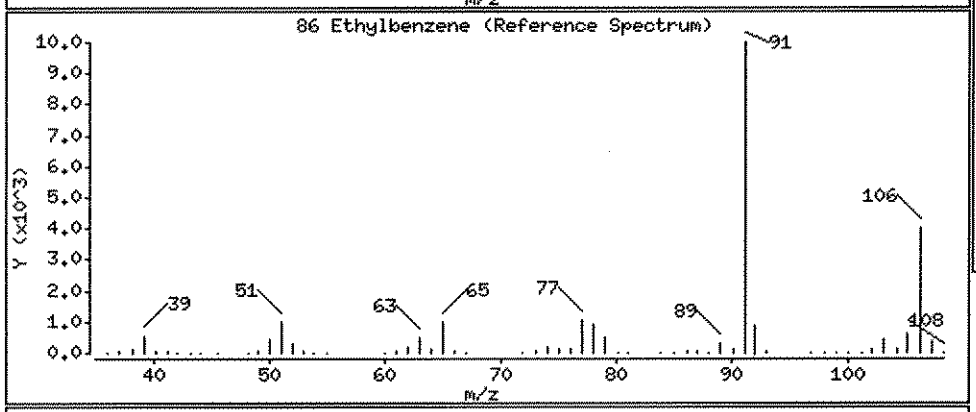
Operator: ADM

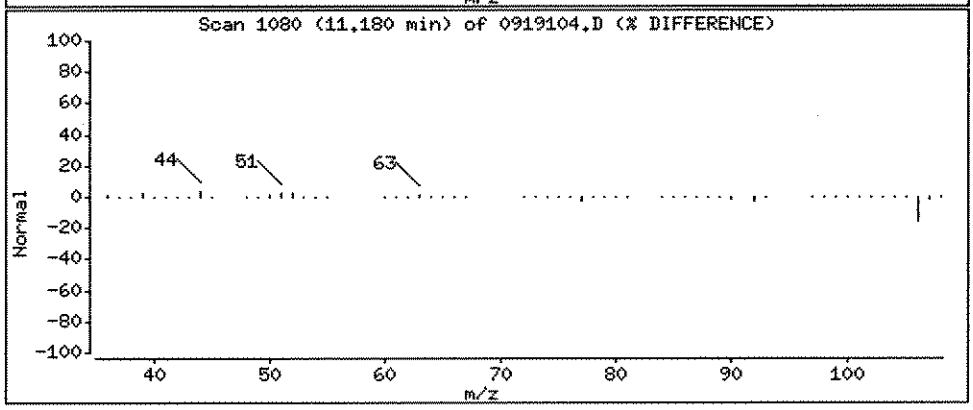
Column phase: RTX-VRX Column diameter: 0.25

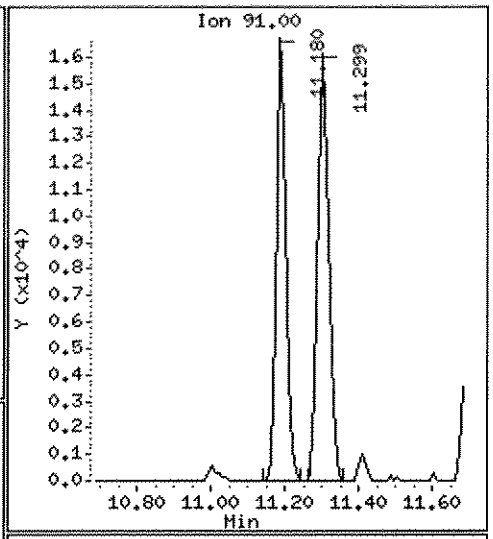
86 Ethylbenzene Concentration: 1.642 ug/Kg

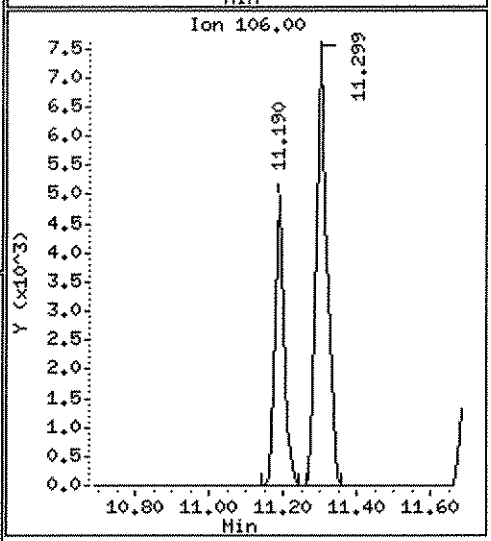












Data File: \\ELABNSH05\TARGET\chem\voa5.i\092711V5.b\0919104.D

Date : 27-SEP-2011 12:14

Client ID:

Instrument: voa5.i

Sample Info: 1109191-04;;;;;

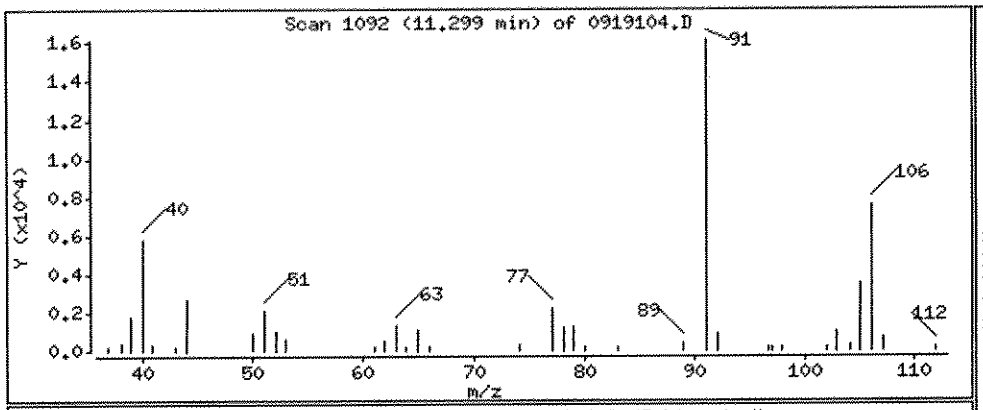
Operator: ADM

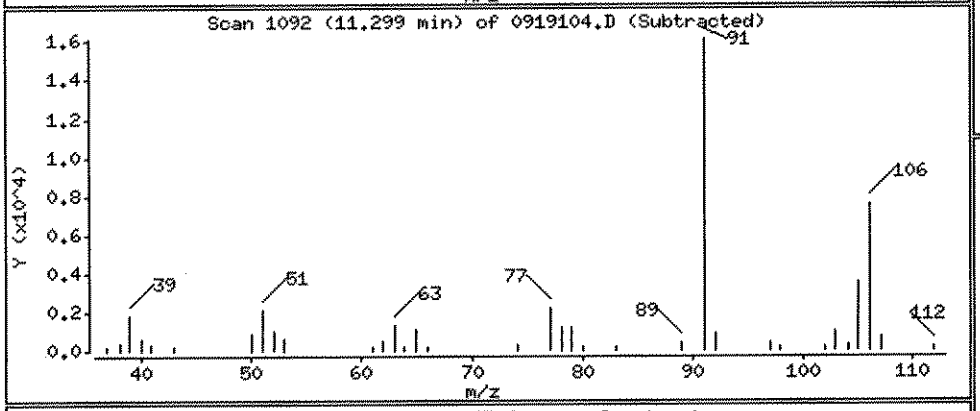
Column phase: RTX-VRX

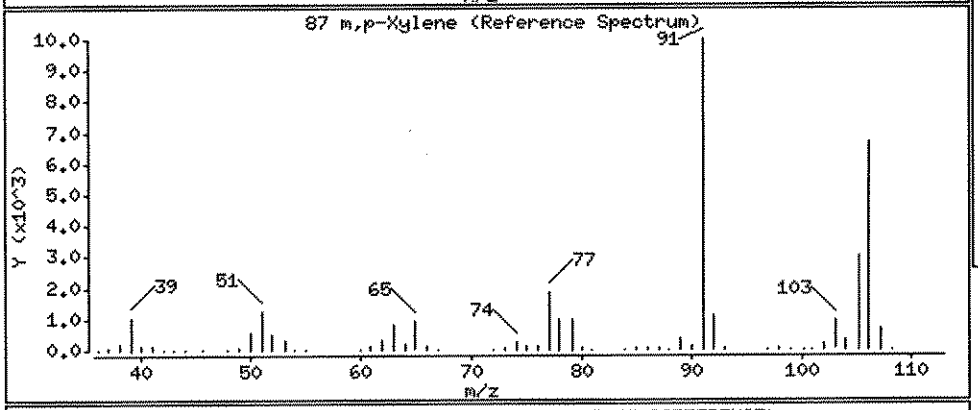
Column diameter: 0.25

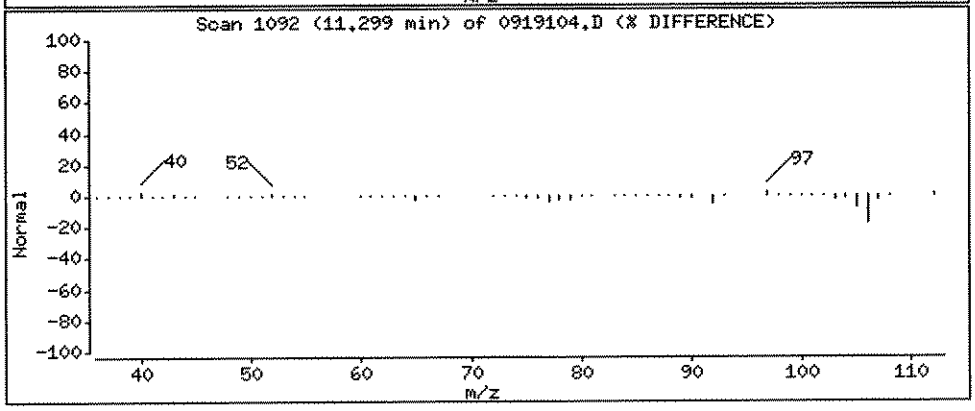
87 m,p-Xylene

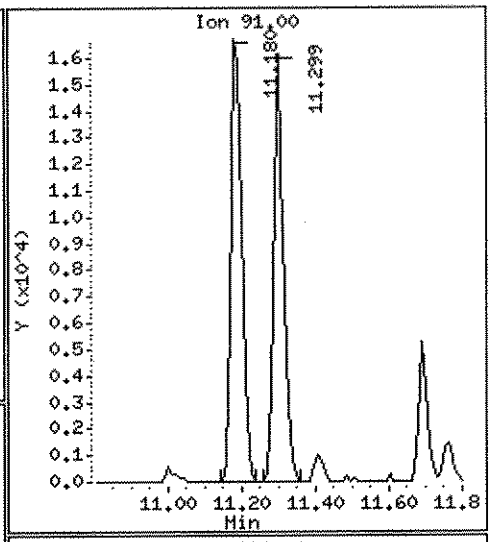
Concentration: 2.332 ug/Kg

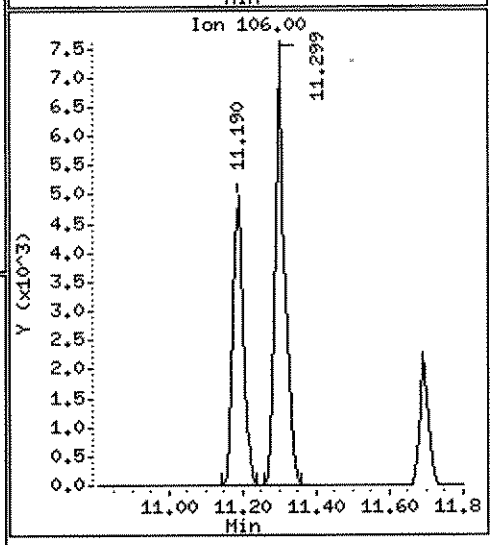












Data File: \\ELABNSH05\TARGET\chem\voa5.i\092711V5.b\0919104.D

Date : 27-SEP-2011 12:14

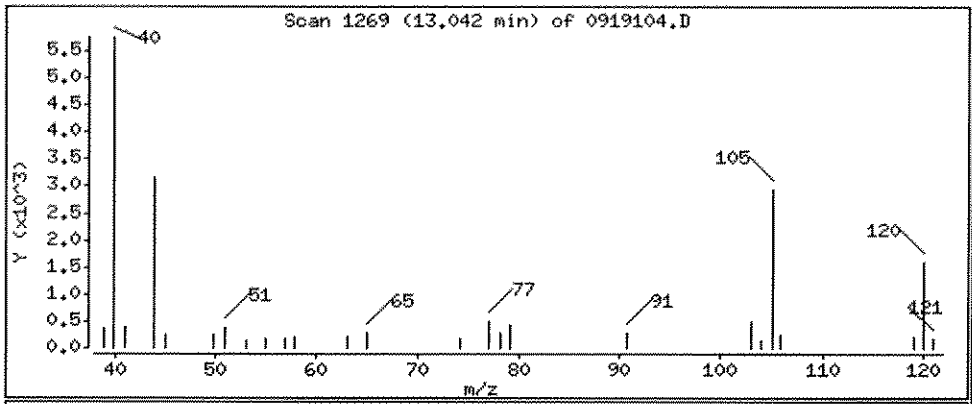
Client ID: Instrument: voa5.i

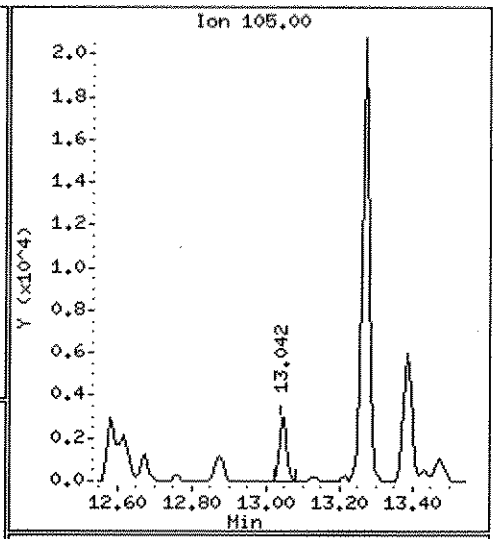
Sample Info: 1109191-04;;;;;

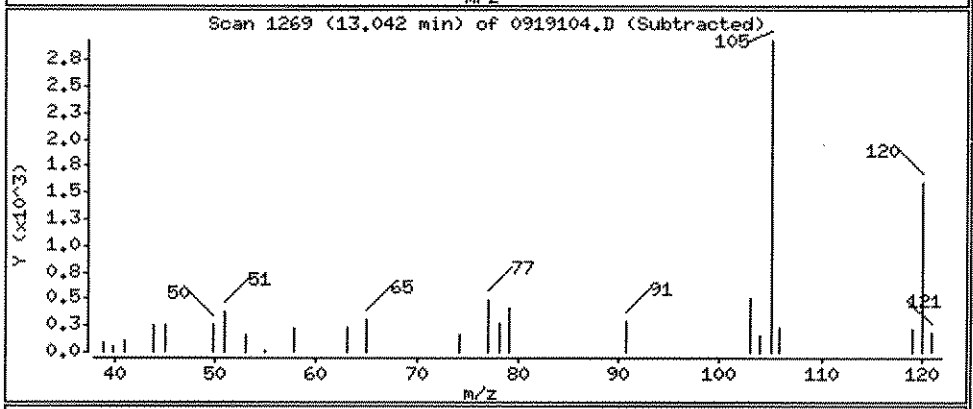
Operator: ADM

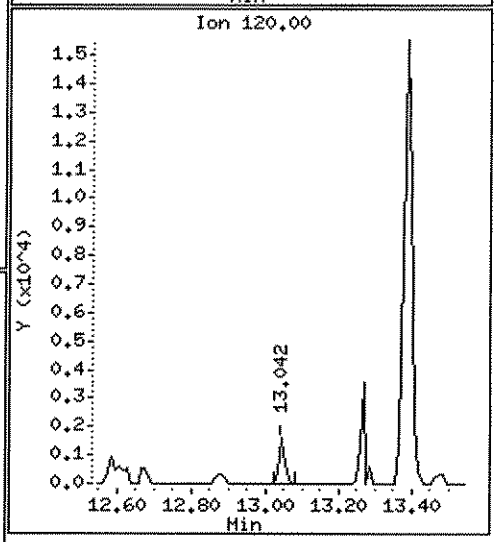
Column phase: RTX-VRX Column diameter: 0.25

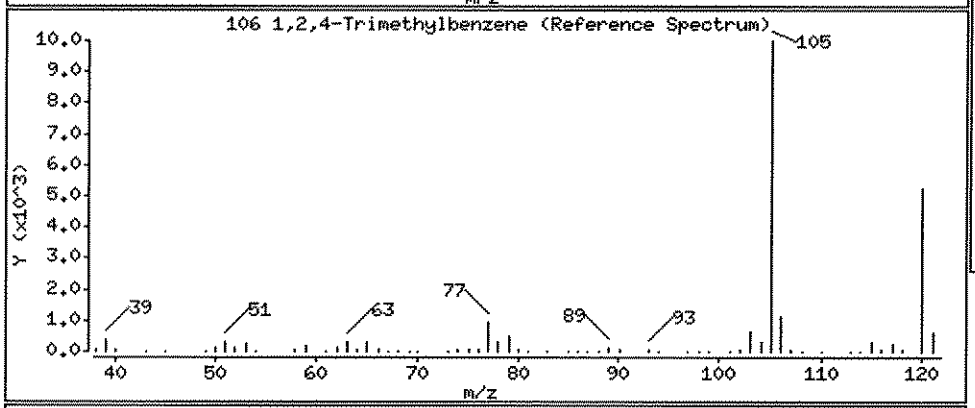
106 1,2,4-Trimethylbenzene Concentration: 0.7794 ug/Kg

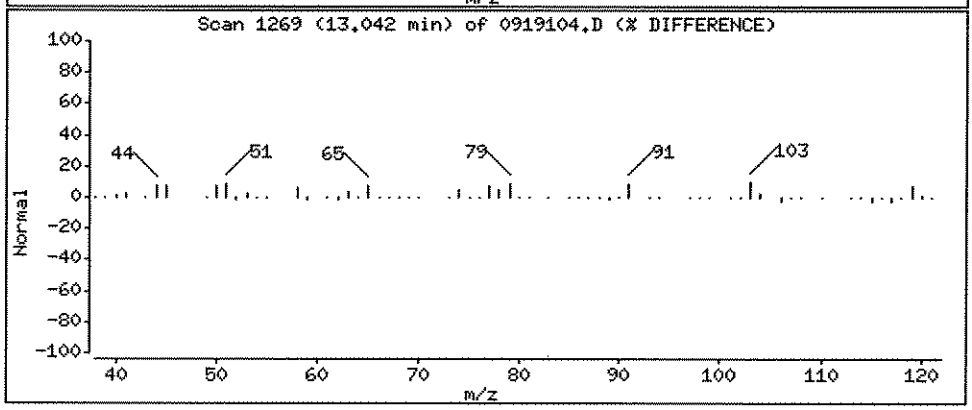












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Date : 27-SEP-2011 12:14

Client ID:

Instrument: voa5.i

Sample Info: 1109191-04;;;;;

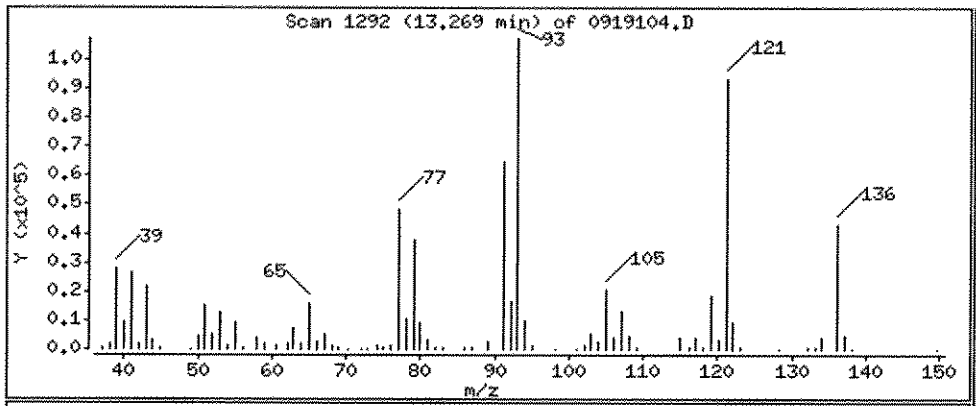
Operator: ADM

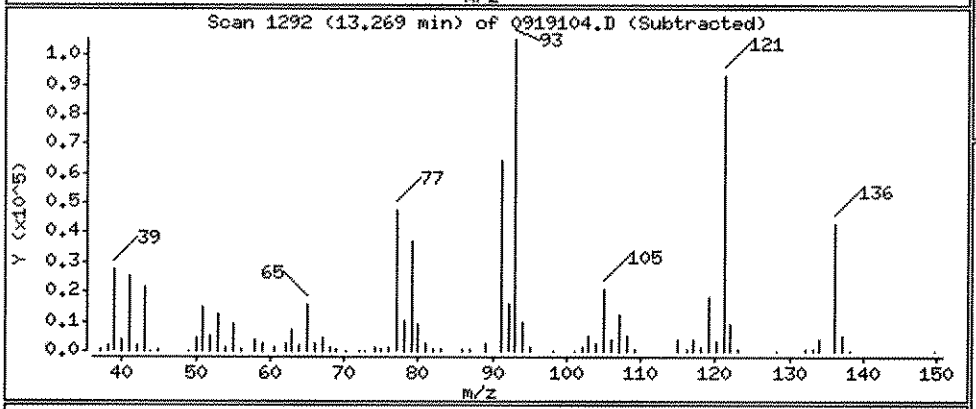
Column phase: RTX-VRX

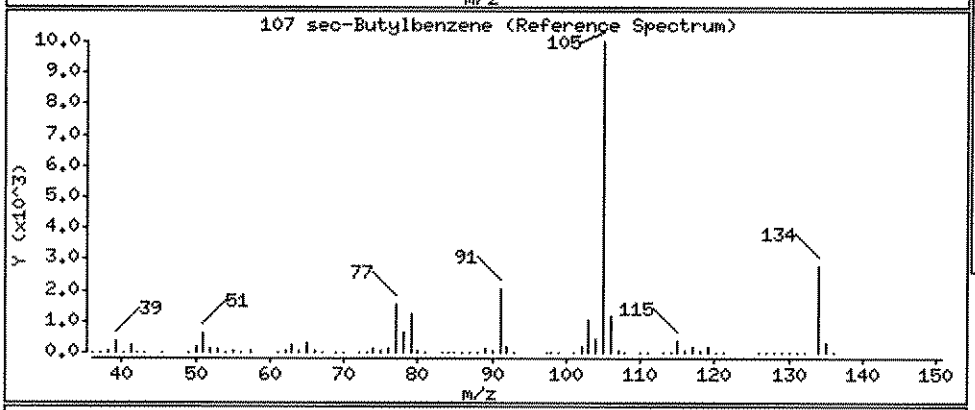
Column diameter: 0.25

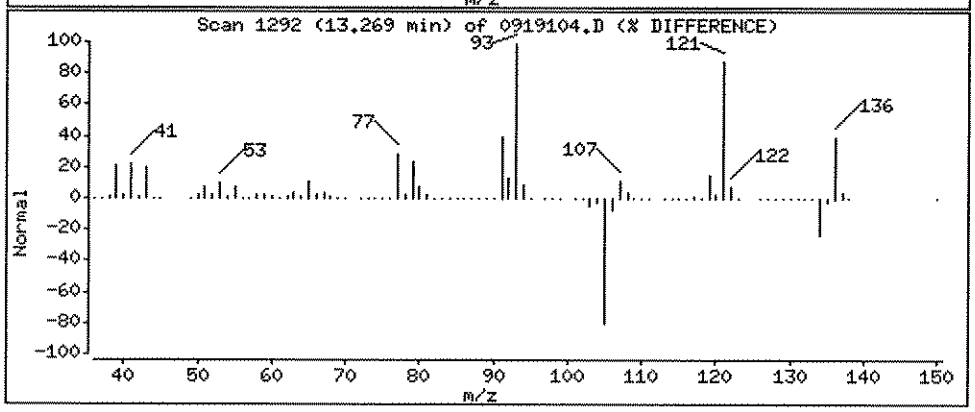
107 sec-Butylbenzene

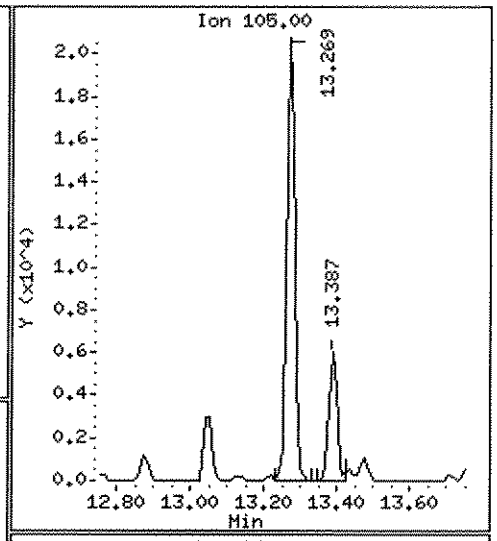
Concentration: 3.542 ug/Kg

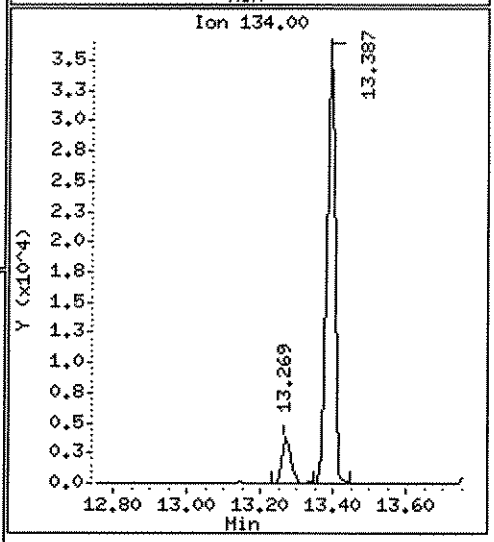












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Date : 27-SEP-2011 12:14

Client ID:

Instrument: voa5.i

Sample Info: 1109191-04;;;;;

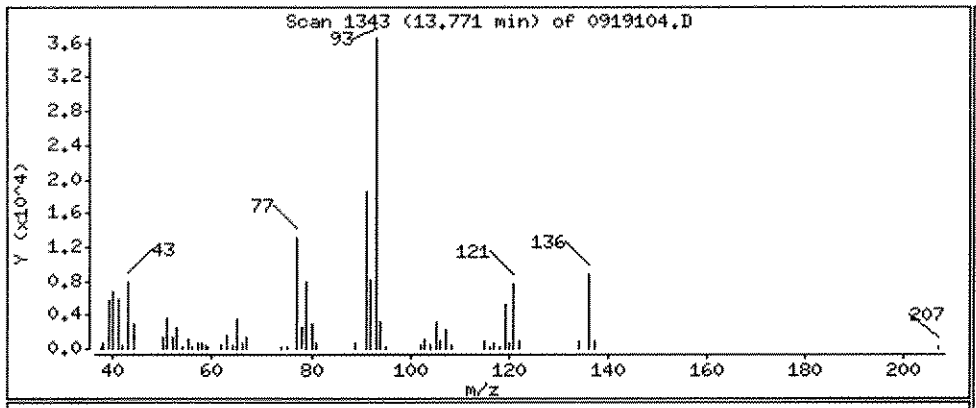
Operator: ADM

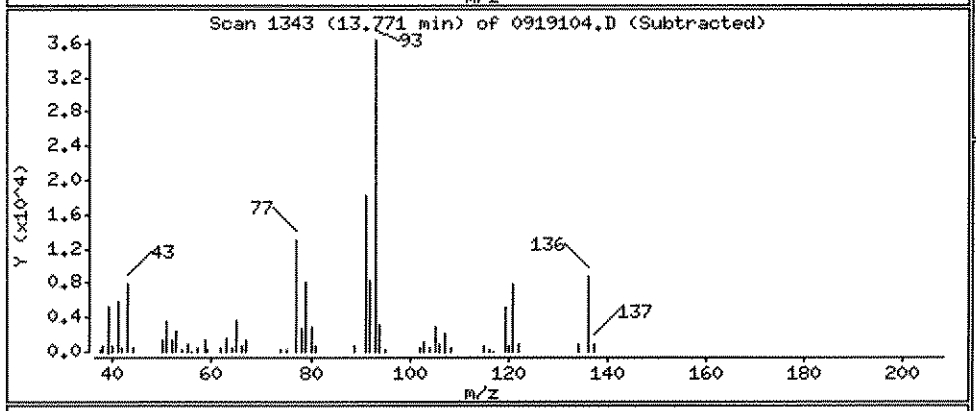
Column phase: RTX-VRX

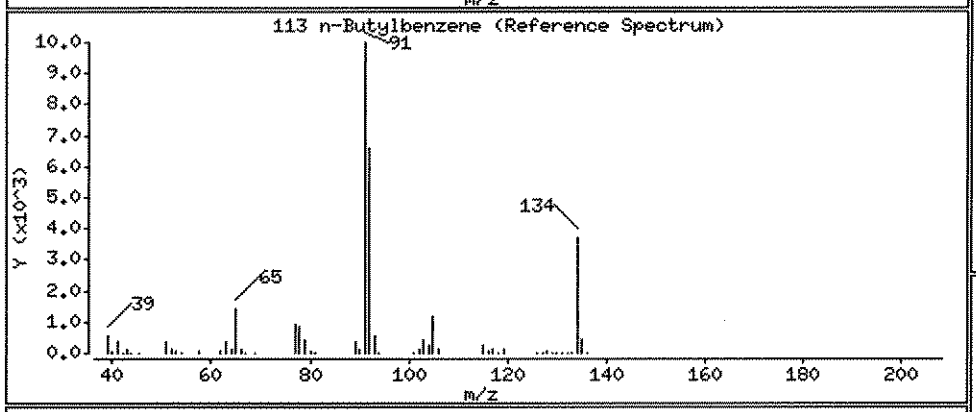
Column diameter: 0.25

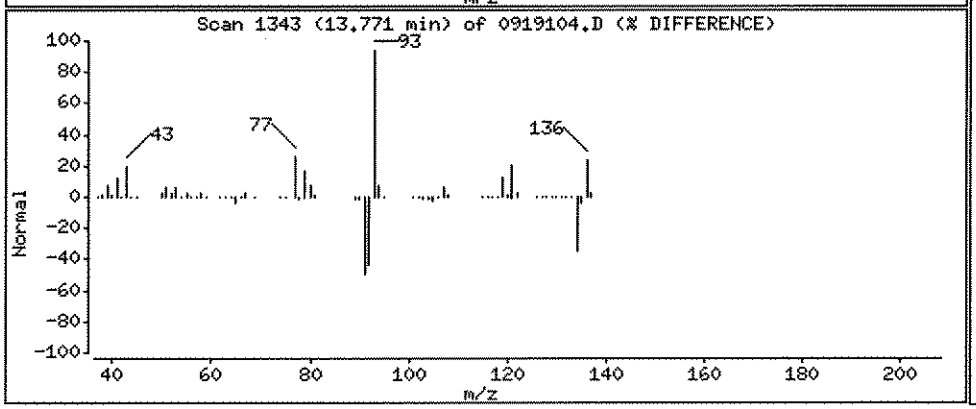
113 n-Butylbenzene

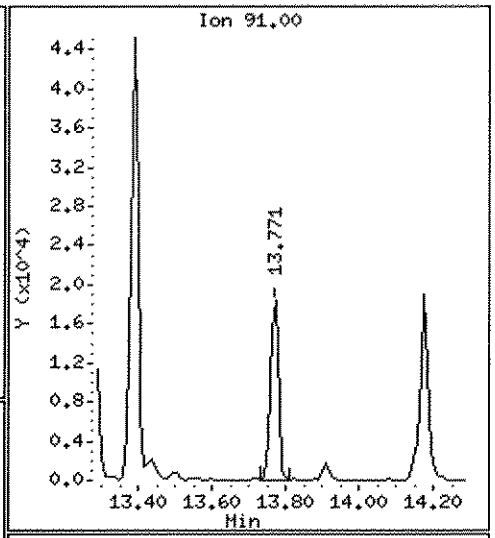
Concentration: 4.503 ug/Kg

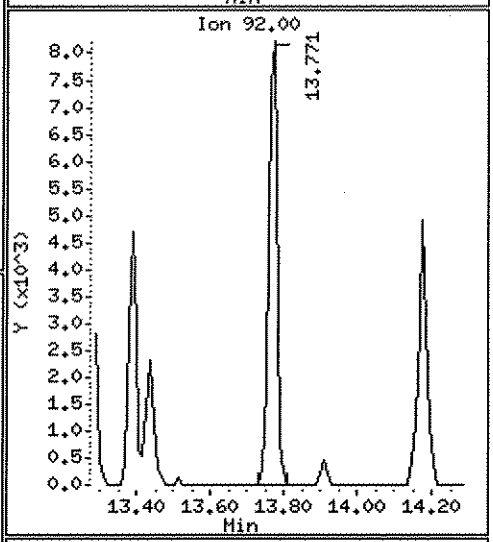


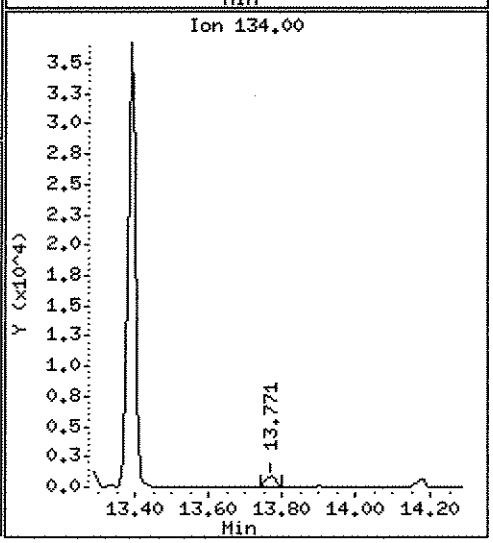












Data File: \\ELABNSH05\TARGET\chem\voa5.i\092711V5.b\0919104.D

Date : 27-SEP-2011 12:14

Client ID:

Instrument: voa5.i

Sample Info: 1109191-04;;;;;

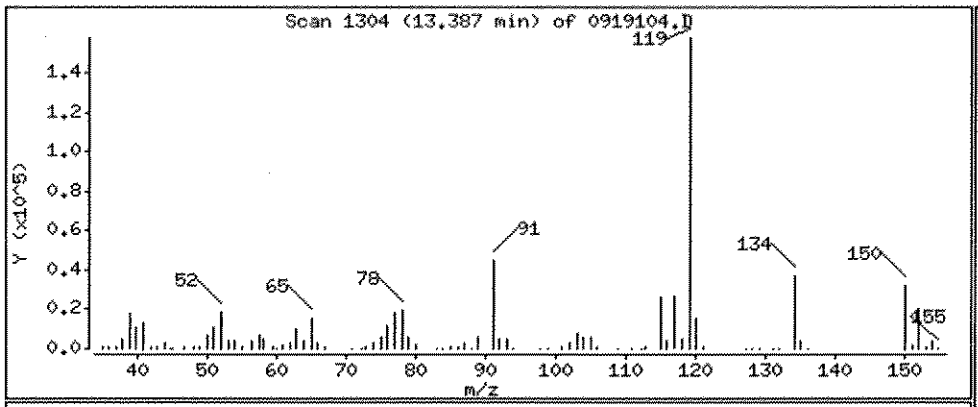
Operator: ADM

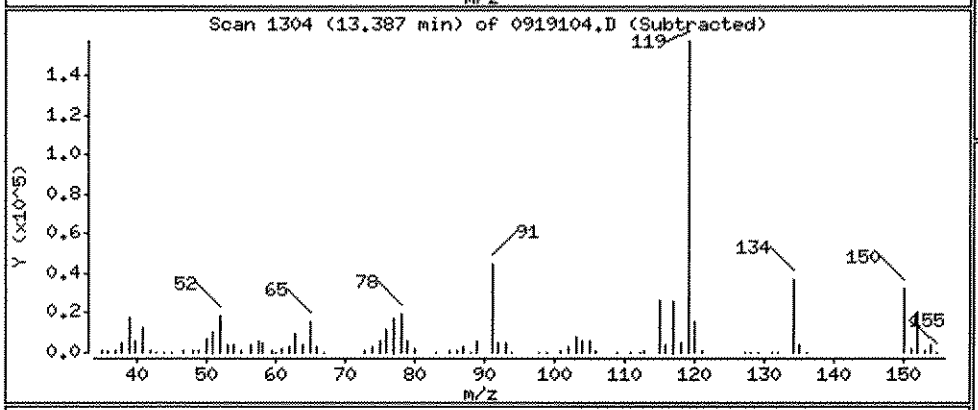
Column phase: RTX-VRX

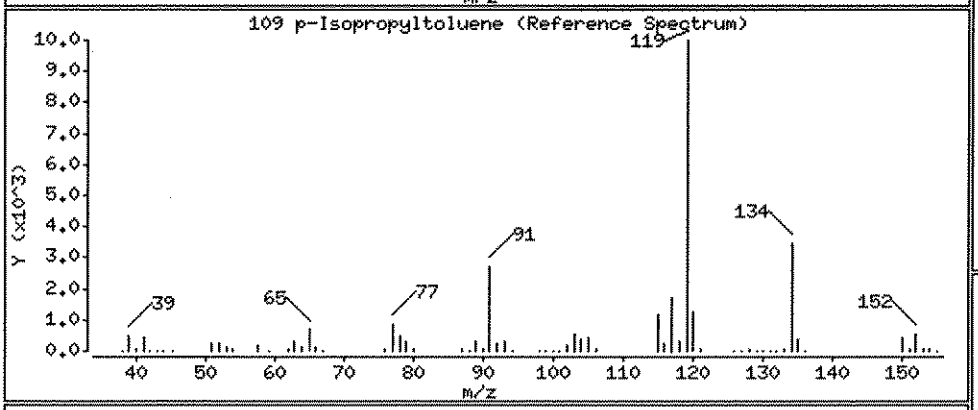
Column diameter: 0.25

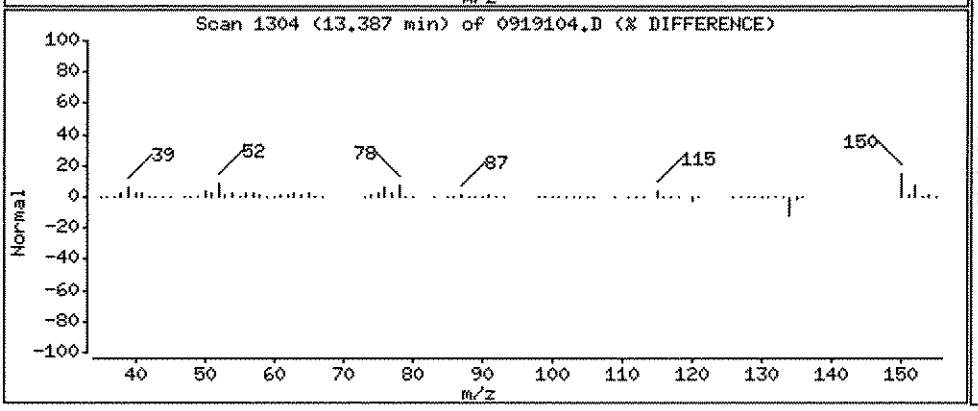
109 p-Isopropyltoluene

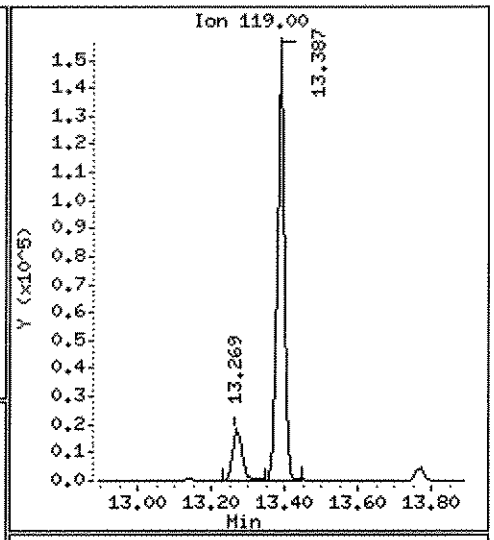
Concentration: 39.39 ug/Kg

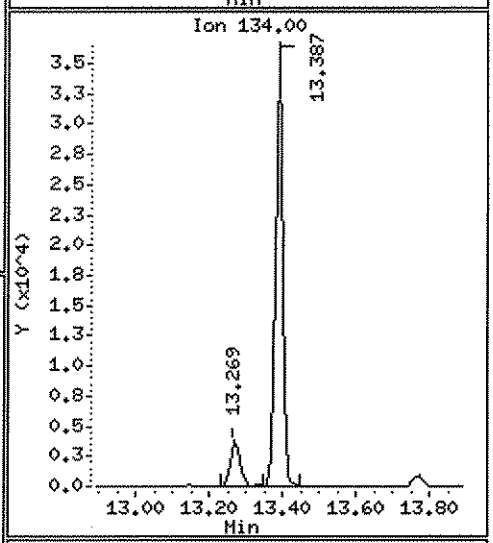


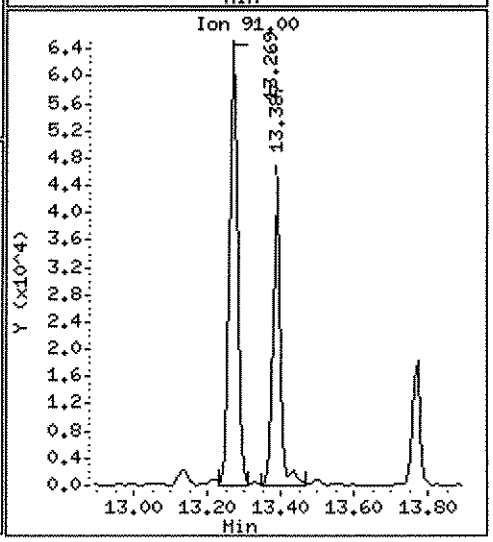












Data File: \\ELABNSH05\TARGET\chem\voa5.i\092711V5.b\0919106.D
Report Date: 28-Sep-2011 07:21

Laboratory Name

Data file : \\ELABNSH05\TARGET\chem\voa5.i\092711V5.b\0919106.D
Lab Smp Id: 1109191-06 Client Smp ID: FLC-4-SS02-0204-092
Inj Date : 27-SEP-2011 12:40 MS Autotune Date: 28-JUL-1998 05:19
Operator : ADM Inst ID: voa5.i
Smp Info : 1109191-06;;;;;
Misc Info : ;;;;;8260.sub;
Comment :
Method : \\ELABNSH05\TARGET\chem\voa5.i\092711V5.b\VS5SUR.m
Meth Date : 28-Sep-2011 07:17 amonteiro Quant Type: ISTD
Cal Date : 22-SEP-2011 14:24 Cal File: 0922CAL1.D
Als bottle: 13
Dil Factor: 1.00000
Integrator: HP RTE Compound Sublist: 8260.sub
Target Version: 4.04
Processing Host: TARGET02_VM

Concentration Formula: Amt * DF * 5*Uf/(Ws*(Solids/100))

Name	Value	Description
DF	1.000	Dilution Factor
Uf	1.000	unit correction factor
Ws	5.000	Weight of sample extracted (g)
Solids	100.000	Percent Solids

MG 9/28/11

9-28-11

Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS ON-COLUMN (ug/Kg)	FINAL (ug/Kg)
* 55 Fluorobenzene	96	7.875	7.864	(1.000)	736276	30.0000	
10 Acetonitrile	41	3.767	3.767	(0.478)	30522	28.8363	28.84
9 Acetone	43	3.688	3.688	(0.468)	161075	70.8564	70.86
20 Methylene chloride	84	4.654	4.643	(0.591)	41924	4.89447	4.894
34 2-Butanone	43	6.141	6.141	(0.780)	33403	8.35084	8.351(a)
29 Hexane	57	5.914	5.904	(0.751)	11926	0.92548	0.9255(a)
$ 44 Dibromofluoromethane	111	6.840	6.840	(0.869)	211961	33.6153	33.62
51 Cyclohexane	56	7.510	7.500	(0.954)	10757	0.75470	0.7547(a)
$ 48 1,2-Dichloroethane-d4	102	7.343	7.332	(0.932)	41155	31.7666	31.77
53 Benzene	78	7.609	7.598	(0.966)	52949	1.86838	1.868
$ 71 Toluene-d8	98	9.569	9.568	(0.869)	640470	30.5267	30.53
74 Toluene	92	9.648	9.647	(0.877)	65800	4.34595	4.346
63 Methyl cyclohexane	83	8.751	8.741	(1.111)	14487	1.24147	1.241
* 82 Chlorobenzene-d5	82	11.007	10.997	(1.000)	319287	30.0000	
86 Ethylbenzene	91	11.194	11.184	(1.017)	53835	1.94143	1.941

Data File: \\ELABNSH05\TARGET\chem\voa5.i\092711V5.b\0919106.D
Report Date: 28-Sep-2011 07:21

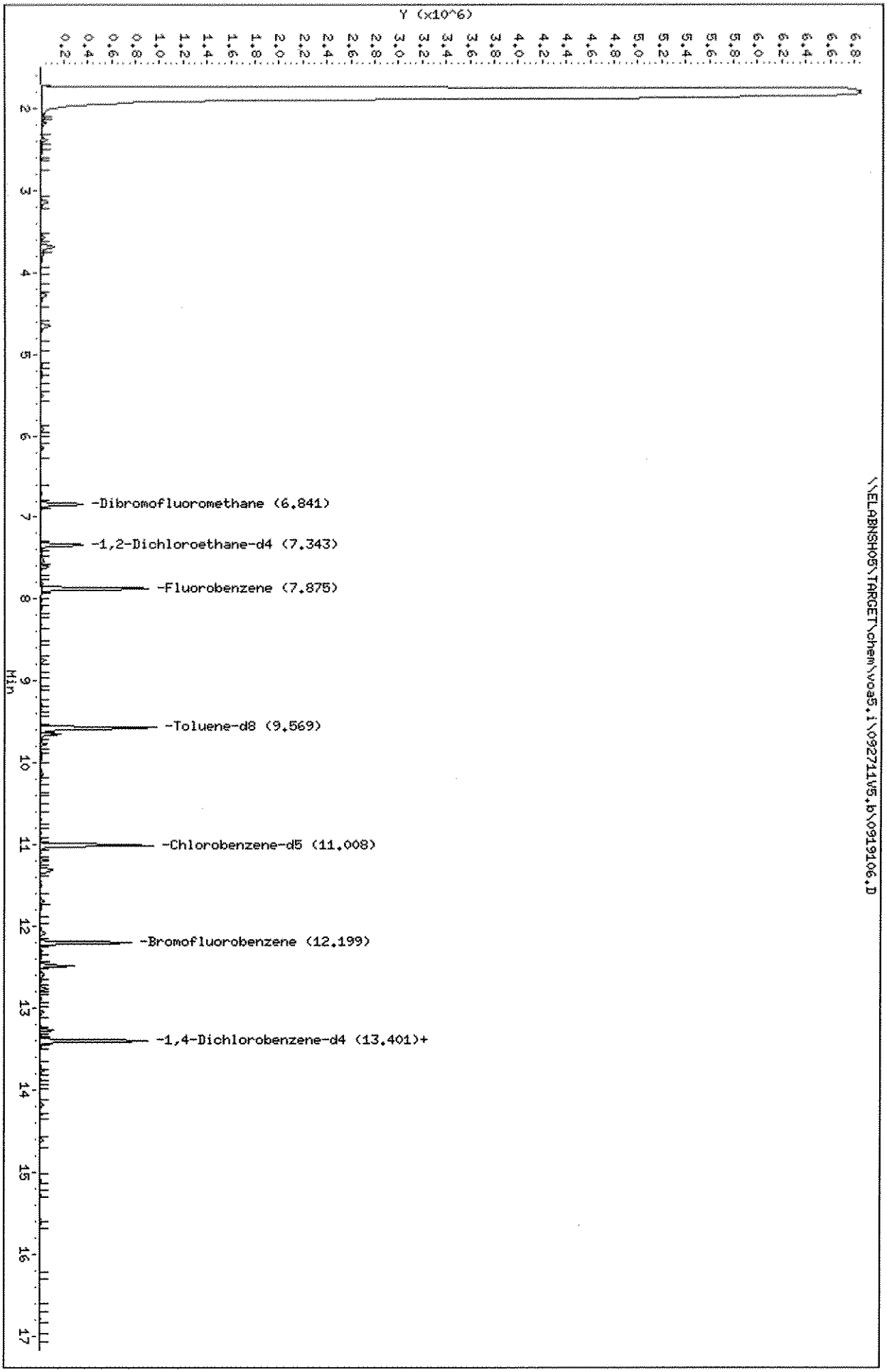
Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS ON-COLUMN (ug/Kg)	FINAL (ug/Kg)
87 m,p-Xylene	91	11.303	11.302	(1.027)	68036	3.54736	3.547
M 119 Xylene(total)	91				93435	4.82771	4.828
89 o-Xylene	91	11.697	11.696	(1.063)	25399	1.28035	1.280
$ 97 Bromofluorobenzene	95	12.199	12.199	(1.108)	267587	30.2211	30.22
99 n-Propylbenzene	91	12.485	12.494	(0.932)	33805	1.32519	1.325
102 1,3,5-Trimethylbenzene	105	12.672	12.671	(0.946)	6387	0.43962	0.4396(a)
106 1,2,4-Trimethylbenzene	105	13.046	13.046	(0.974)	15356	1.14207	1.142
* 110 1,4-Dichlorobenzene-d4	152	13.401	13.400	(1.000)	190808	30.0000	(Q)
109 p-Isopropyltoluene	119	13.391	13.390	(0.999)	57821	4.43396	4.434

QC Flag Legend

a - Target compound detected but, quantitated amount
Below Limit Of Quantitation(BLOQ).
Q - Qualifier signal failed the ratio test.

Data File: \\ELABNSHO5\TARGET\chem\voa5.i\092711V5.b\0919106.D
Date : 27-SEP-2011 12:40
Client ID: FLC-4-SS02-0204-092
Sample Info: 1109191-06;;;;;
Column phase: RTX-VRX

Instrument: voa5.i
Operator: ADM
Column diameter: 0.25



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Date : 27-SEP-2011 12:40

Client ID: FLC-4-SS02-0204-092

Instrument: voa5.i

Sample Info: 1109191-06;;;;;

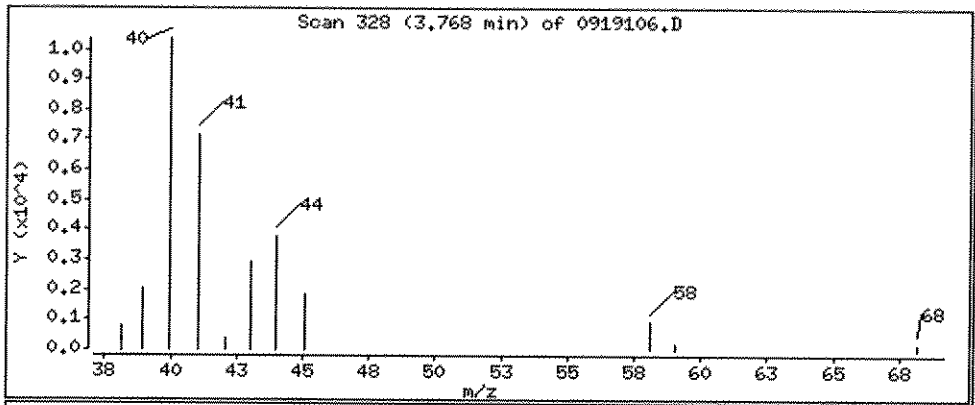
Operator: ADH

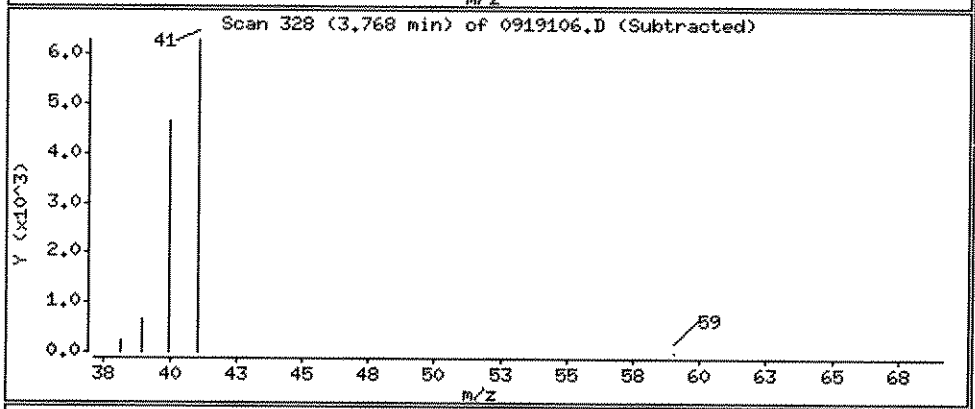
Column phase: RTX-VRX

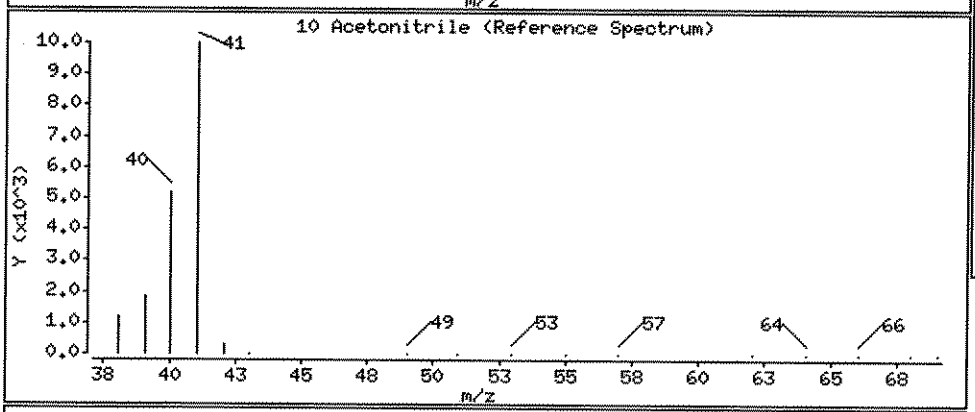
Column diameter: 0.25

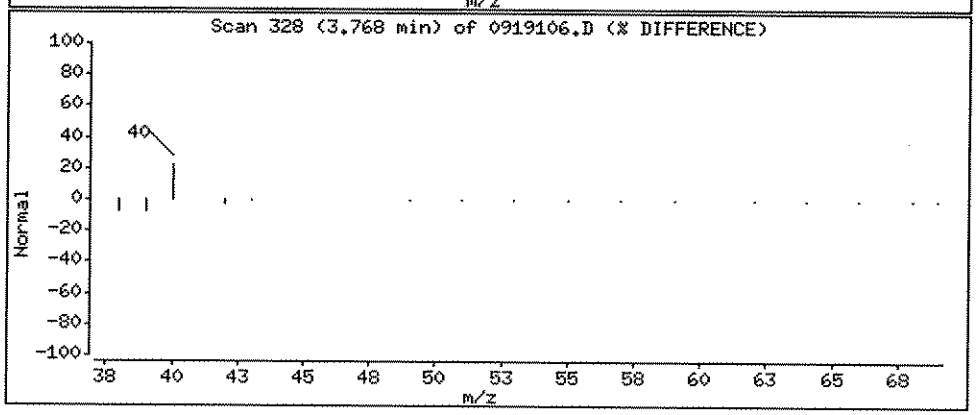
10 Acetonitrile

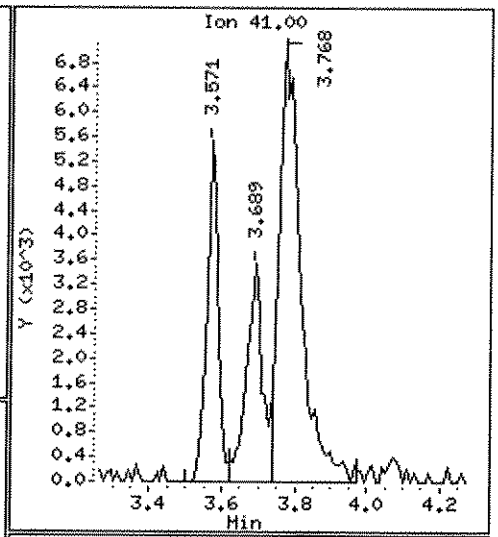
Concentration: 28.84 ug/Kg

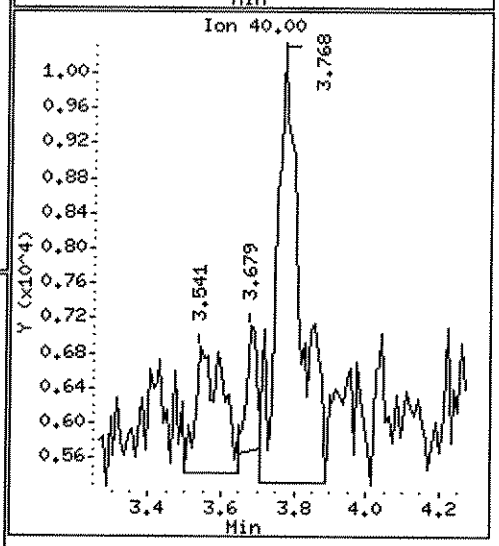












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Date : 27-SEP-2011 12:40

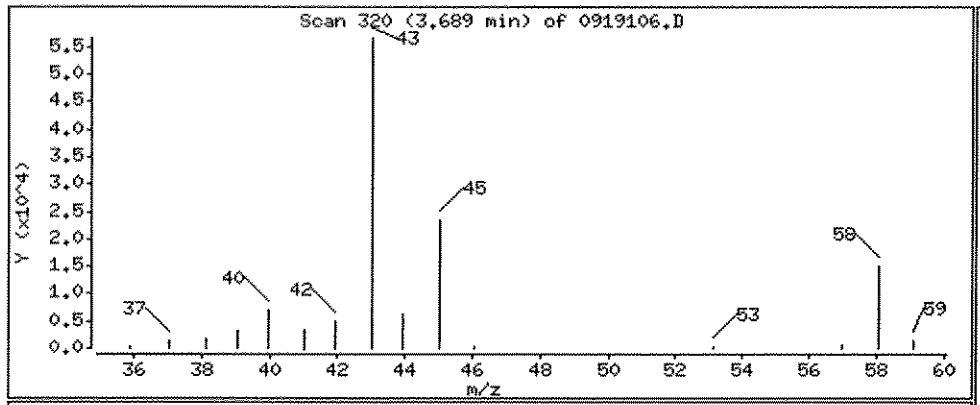
Client ID: FLC-4-SS02-0204-092 Instrument: voa5.i

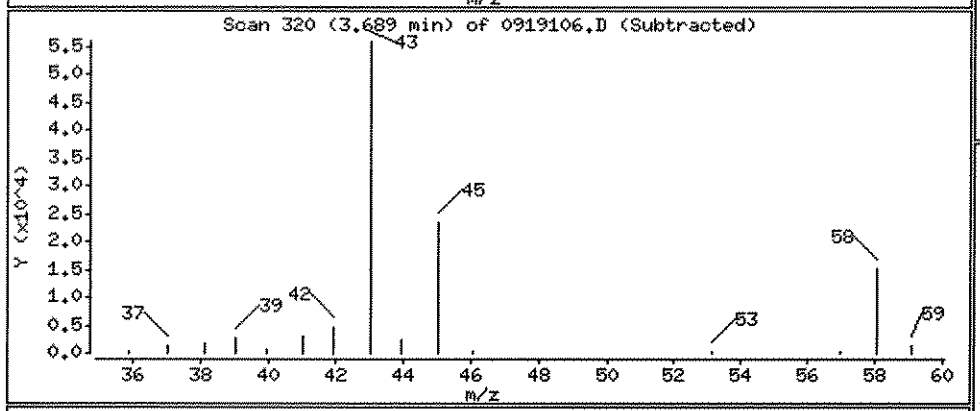
Sample Info: 1109191-06;;;;;

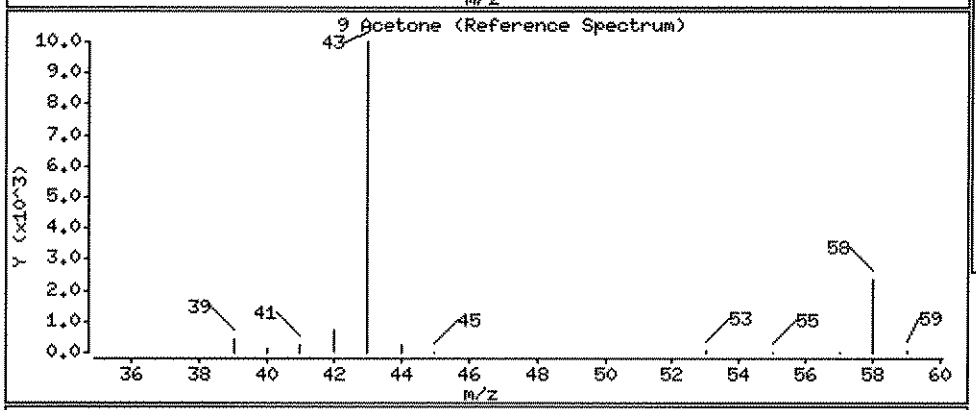
Operator: ADM

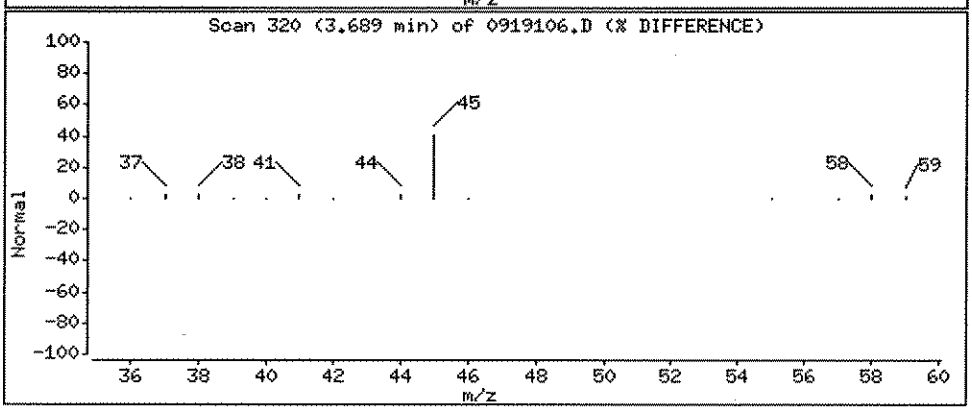
Column phase: RTX-VRX Column diameter: 0.25

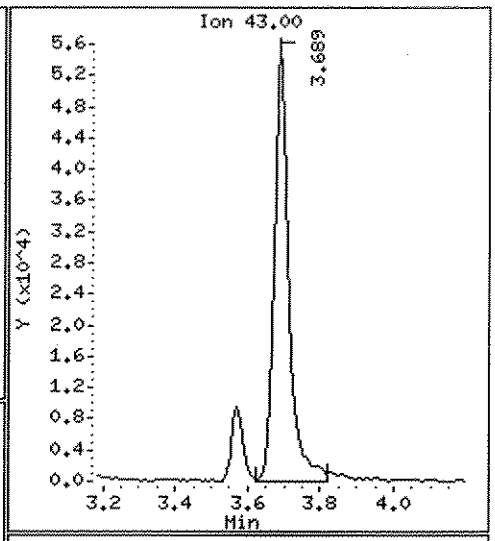
9 Acetone Concentration: 70.86 ug/Kg

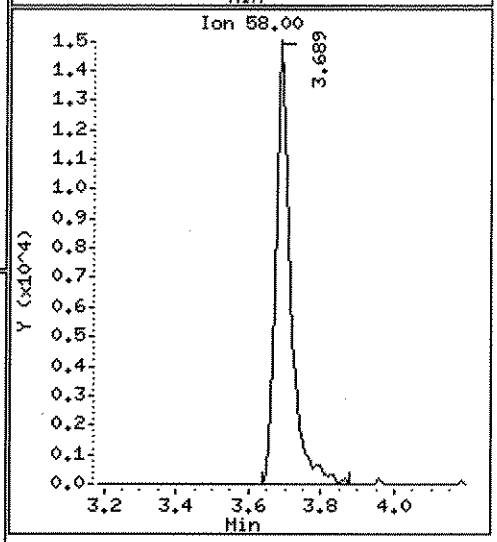












Data File: \\ELABNSH05\TARGET\chem\voa5.i\092711V5.b\0919106.D

Date : 27-SEP-2011 12:40

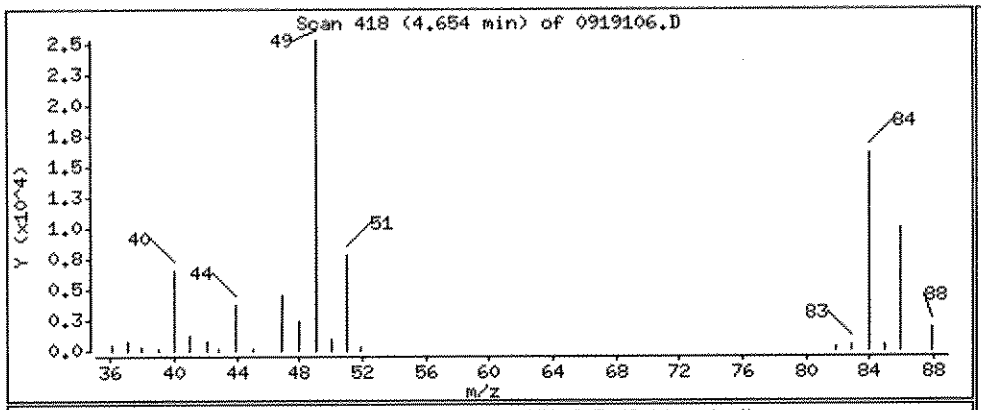
Client ID: FLC-4-SS02-0204-092 Instrument: voa5.i

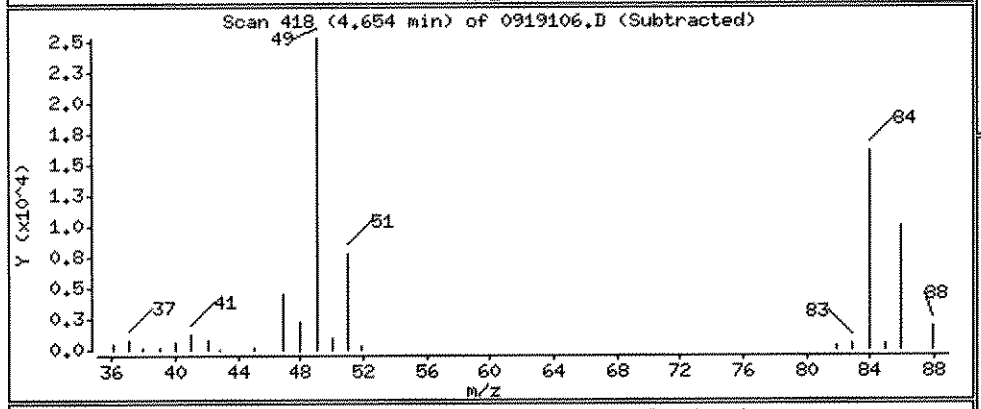
Sample Info: 1109191-06;;;;;

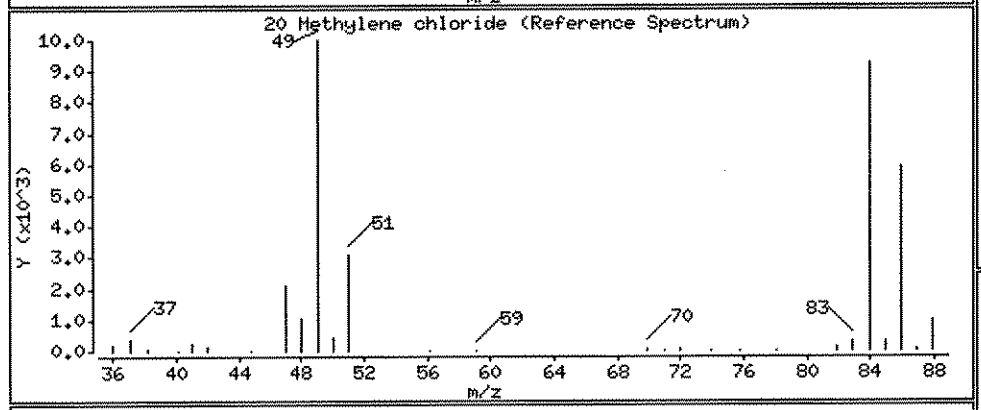
Operator: ADM

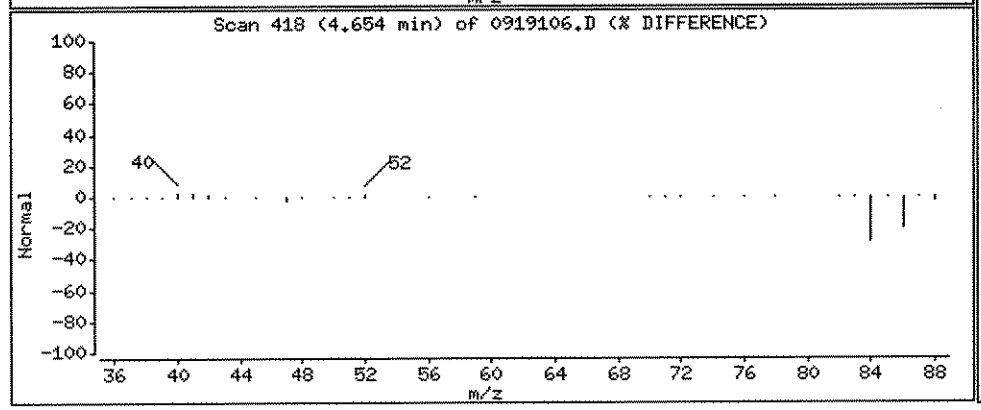
Column phase: RTX-VRX Column diameter: 0.25

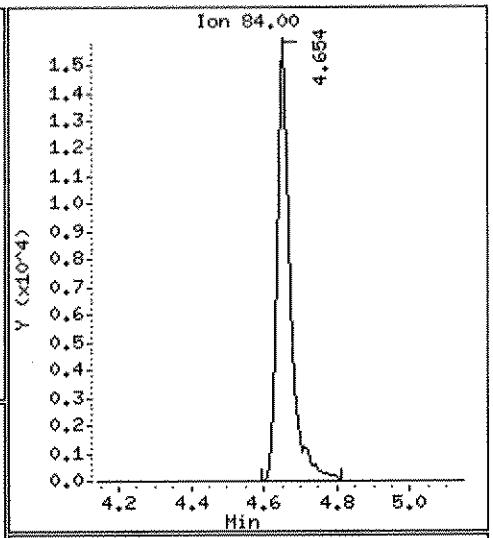
20 Methylene chloride Concentration: 4.894 ug/Kg

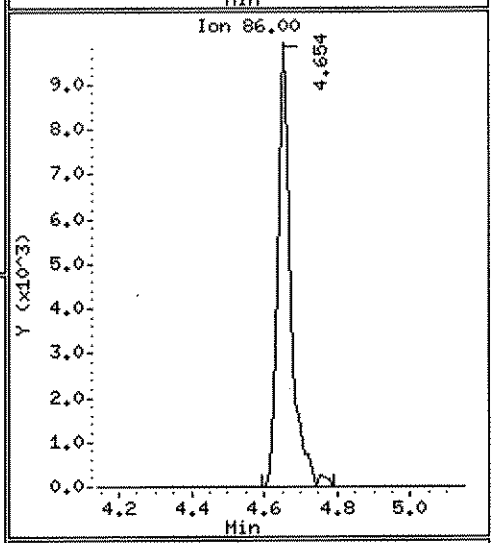


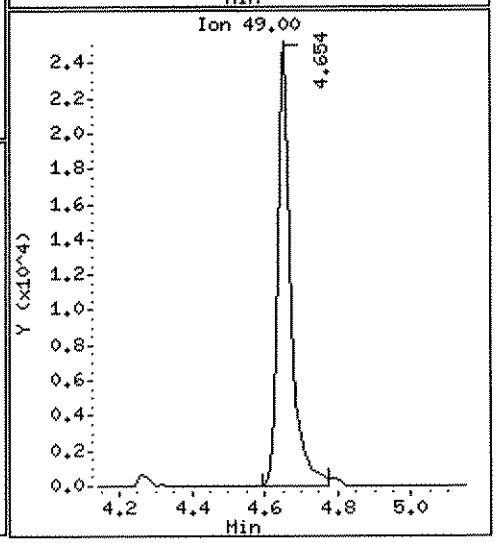












Data File: \\ELABNSH05\TARGET\chem\voa5.i\092711V5.b\0919106.D

Date : 27-SEP-2011 12:40

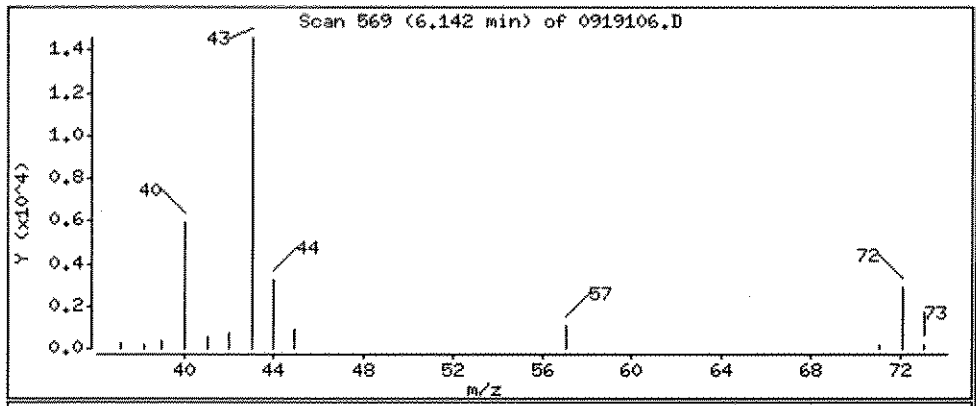
Client ID: FLC-4-SS02-0204-092 Instrument: voa5.i

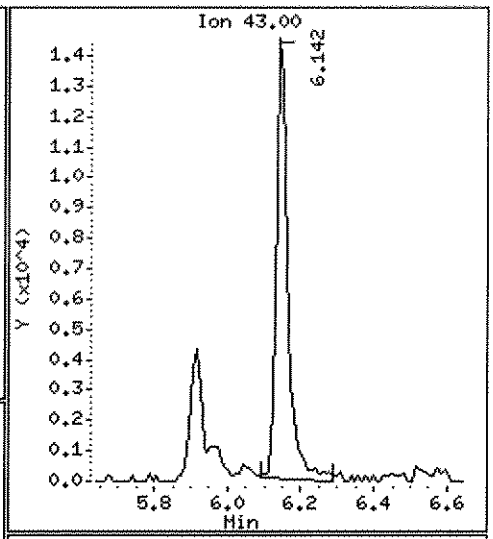
Sample Info: 1109191-06;;;;;

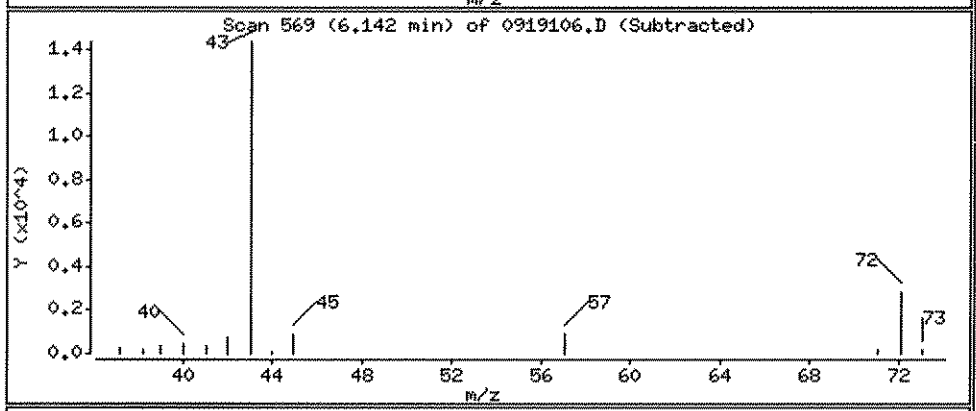
Operator: ADM

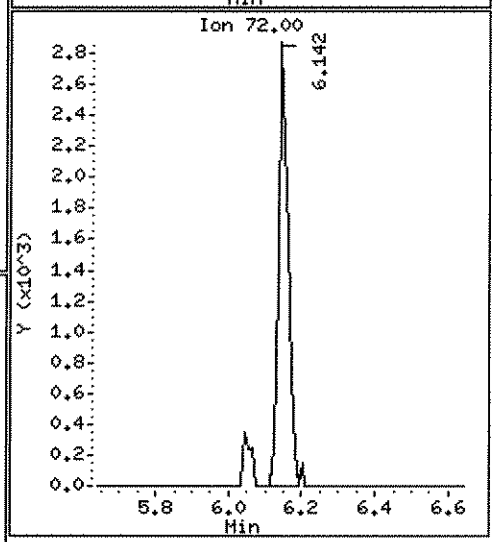
Column phase: RTX-VRX Column diameter: 0.25

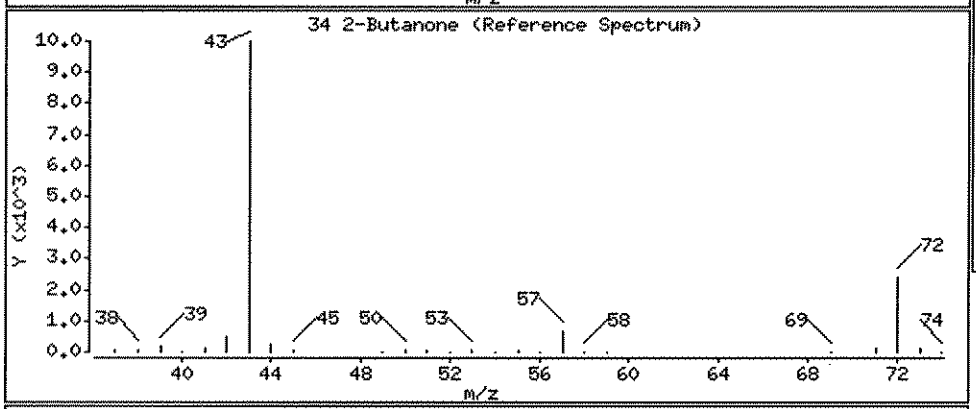
34 2-Butanone Concentration: 8.351 ug/Kg

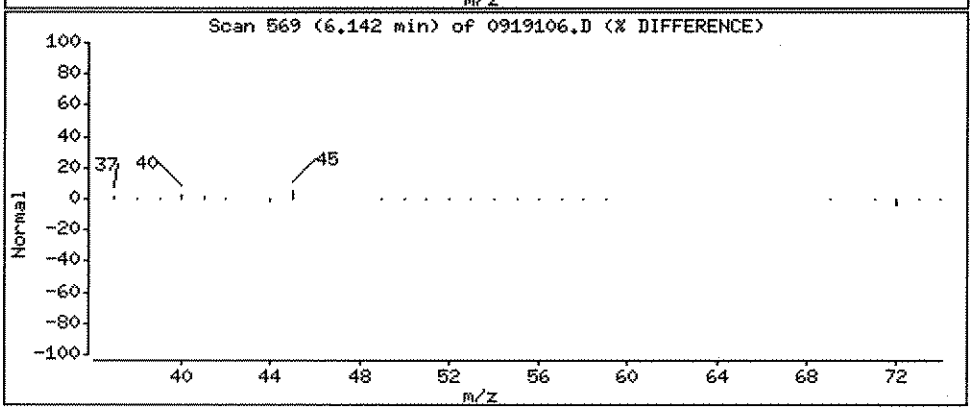












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Date : 27-SEP-2011 12:40

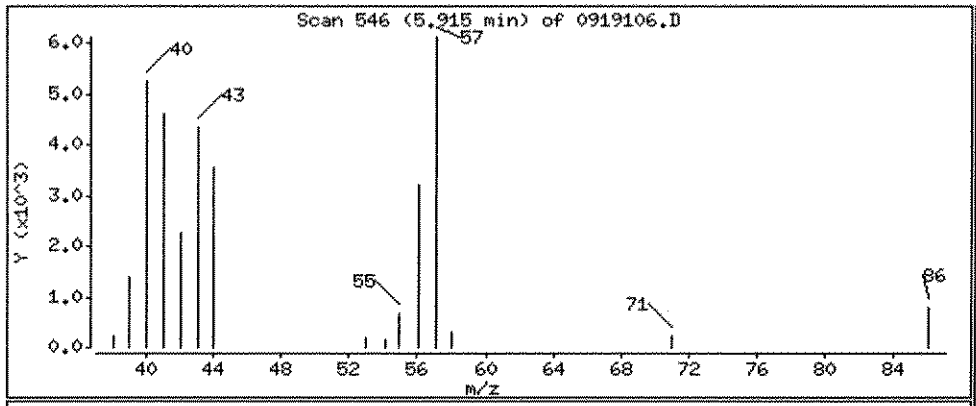
Client ID: FLC-4-SS02-0204-092 Instrument: voa5.i

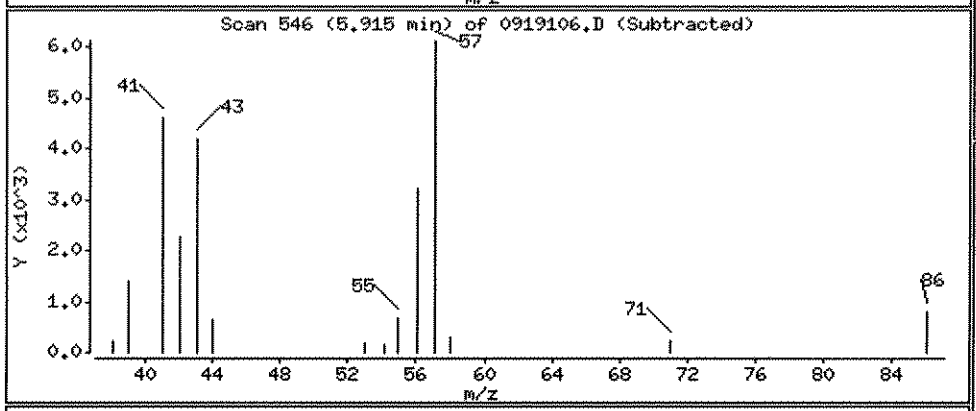
Sample Info: 1109191-06;;;;;

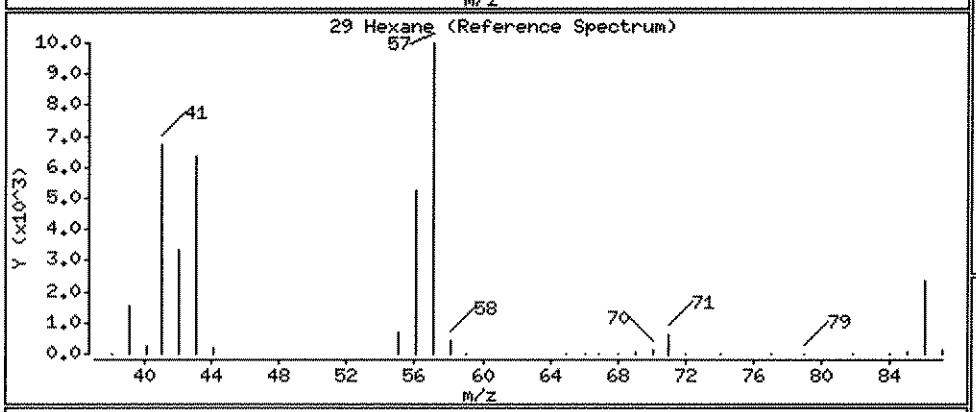
Operator: ADM

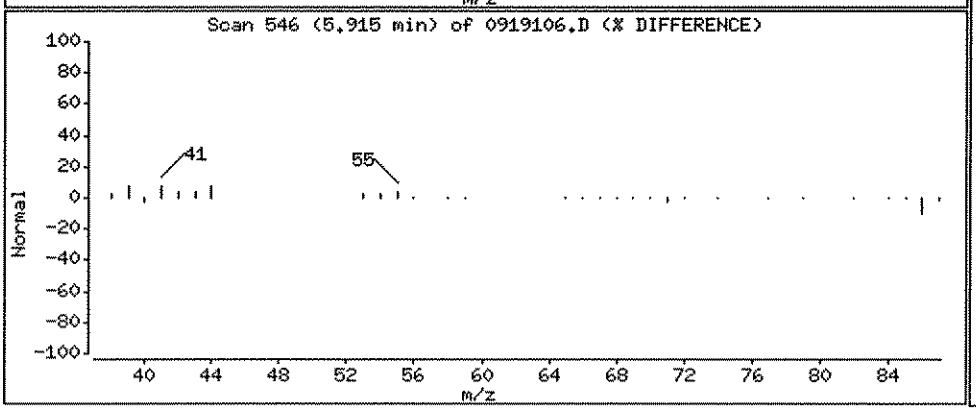
Column phase: RTX-VRX Column diameter: 0.25

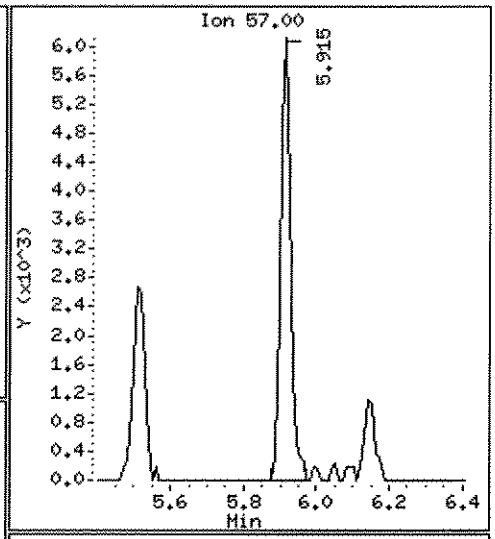
29 Hexane Concentration: 0.9255 ug/Kg

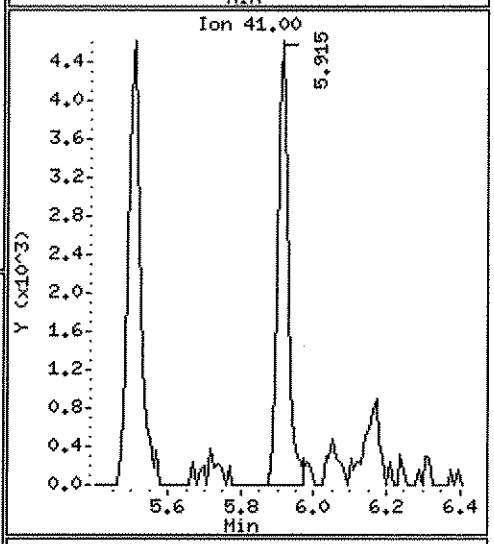


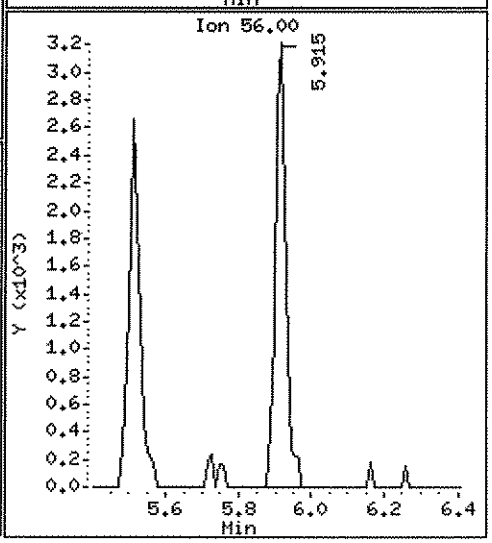












Data File: \\ELABNSH05\TARGET\chem\voa5.i\092711V5.b\0919106.D

Date : 27-SEP-2011 12:40

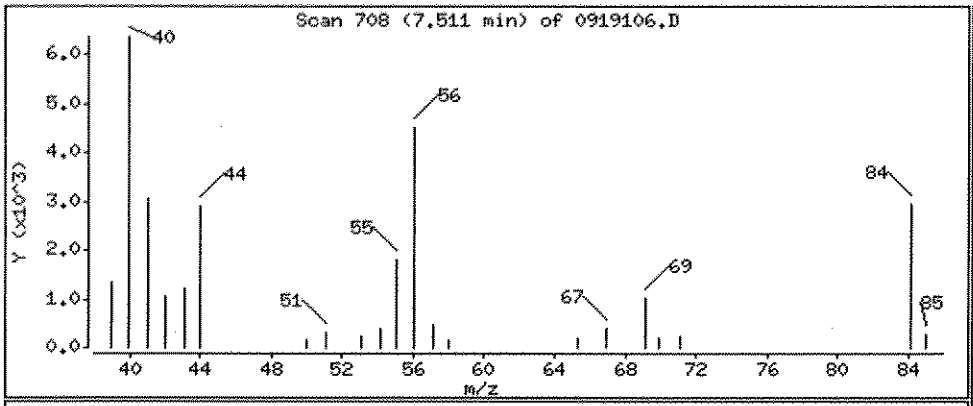
Client ID: FLC-4-SS02-0204-092 Instrument: voa5.i

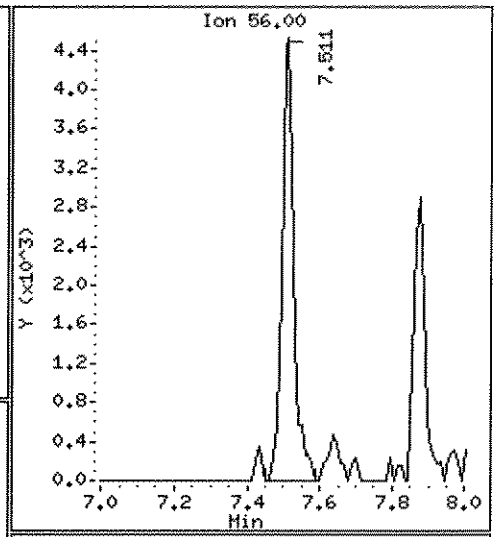
Sample Info: 1109191-06;;;;;

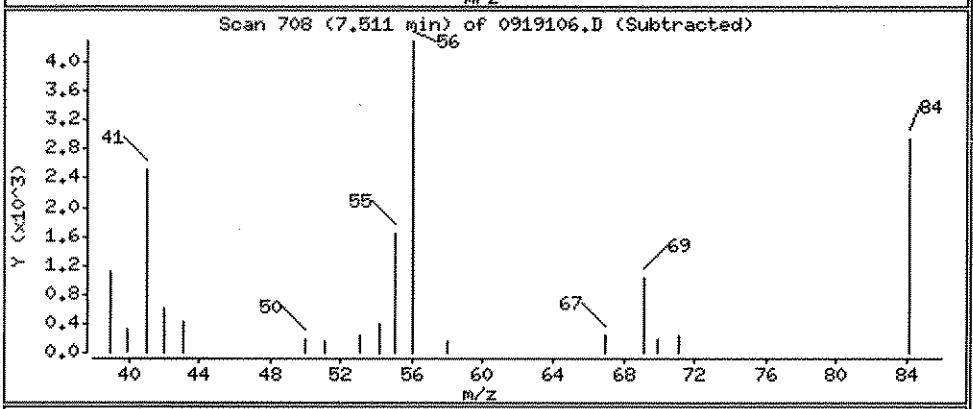
Operator: ADM

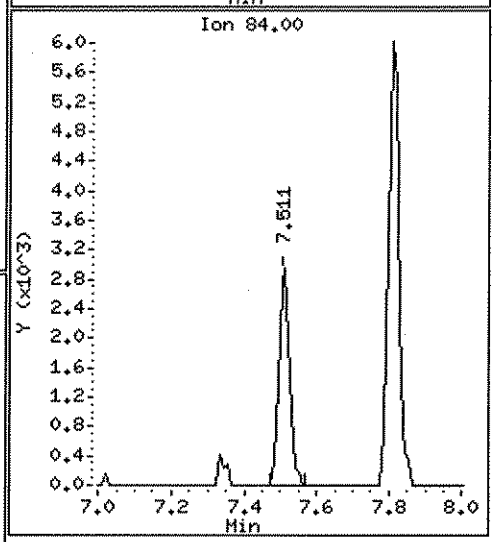
Column phase: RTX-VRX Column diameter: 0.25

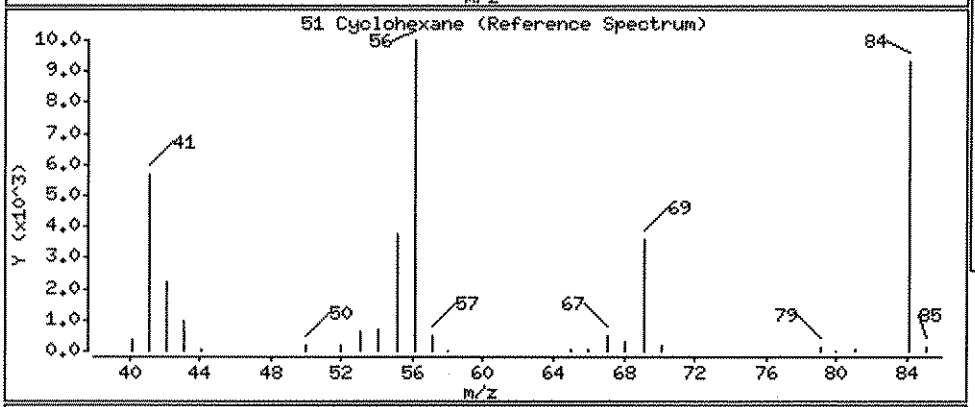
51 Cyclohexane Concentration: 0.7547 ug/Kg

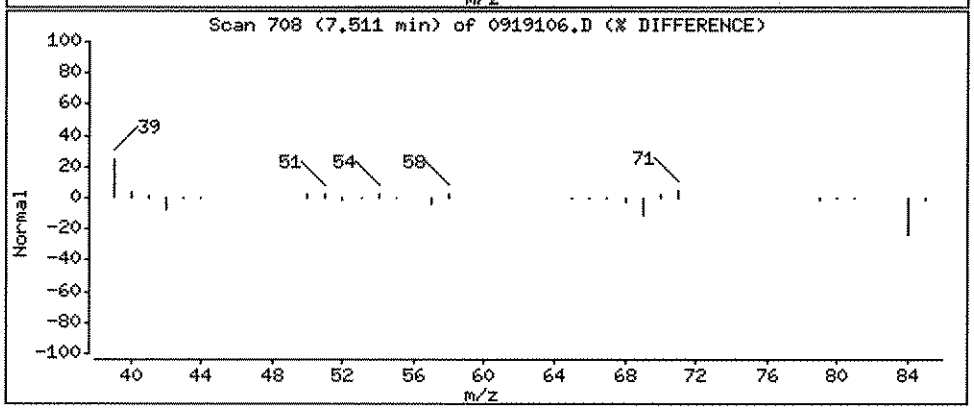












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Date : 27-SEP-2011 12:40

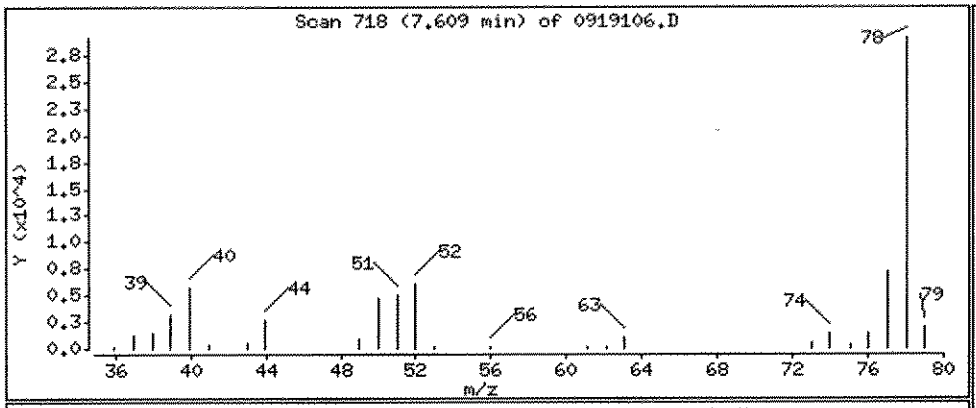
Client ID: FLC-4-SS02-0204-092 Instrument: voa5.i

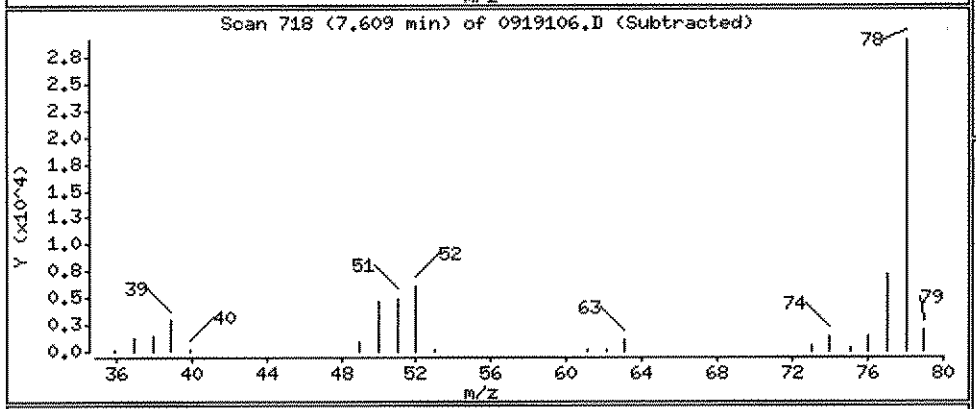
Sample Info: 1109191-06;;;;;

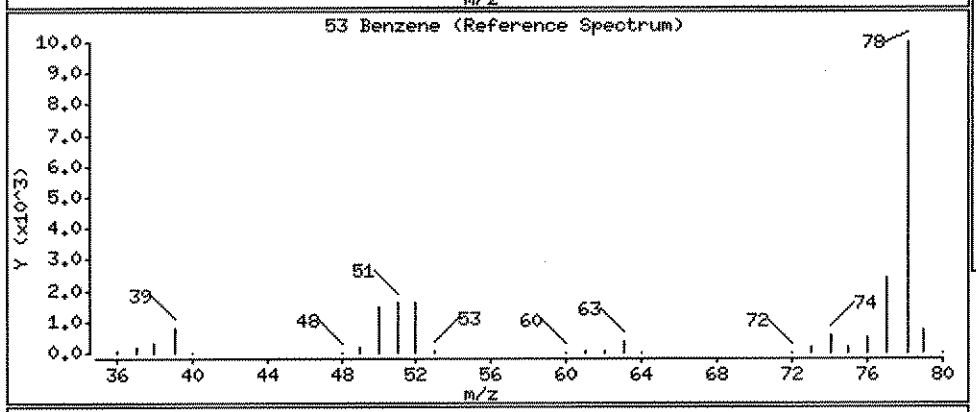
Operator: ADM

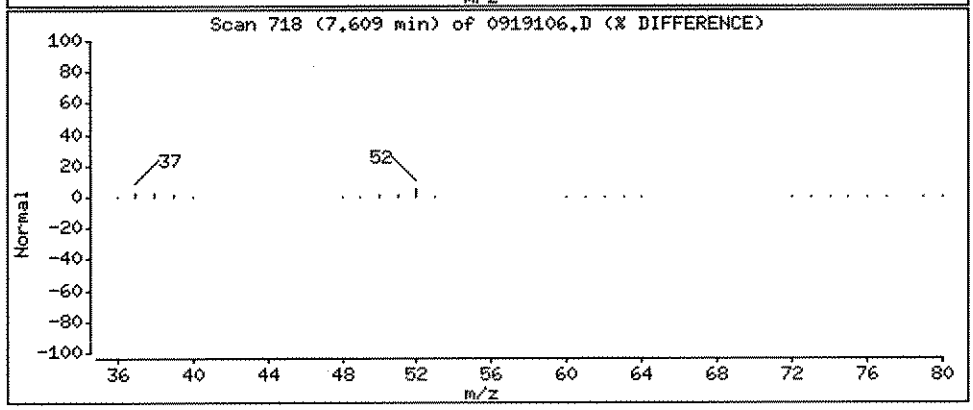
Column phase: RTX-VRX Column diameter: 0.25

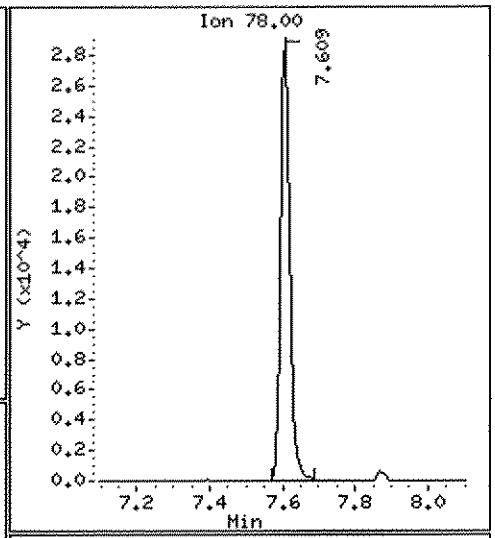
53 Benzene Concentration: 1.868 ug/Kg

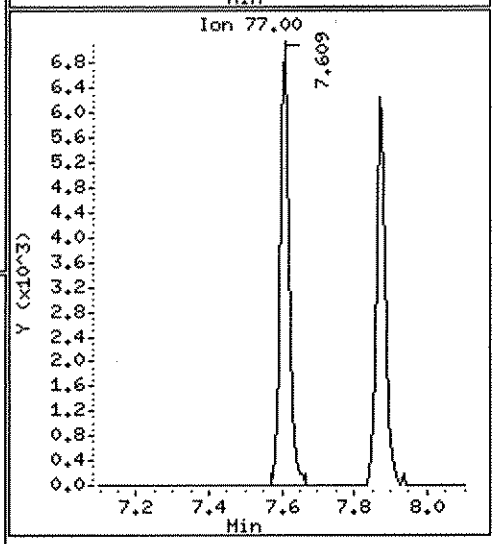












Data File: \\ELABNSH05\TARGET\chem\voa5.i\092711V5.b\0919106.D

Date : 27-SEP-2011 12:40

Client ID: FLC-4-SS02-0204-092

Instrument: voa5.i

Sample Info: 1109191-06;;;;;

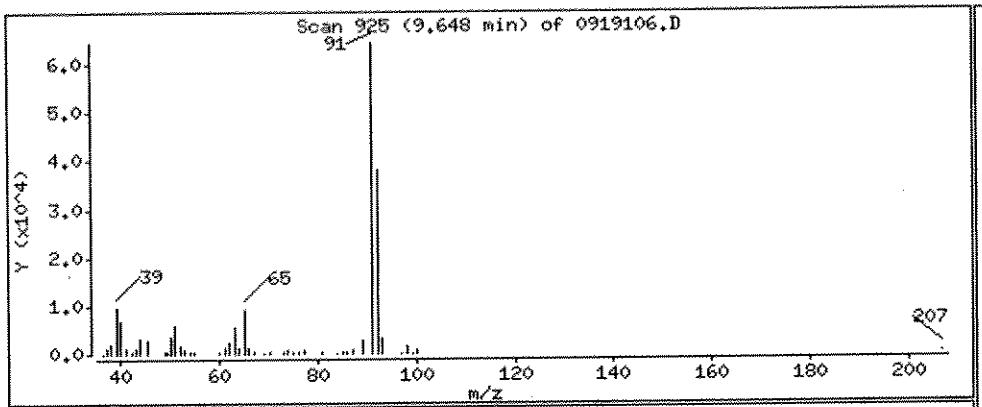
Operator: ADM

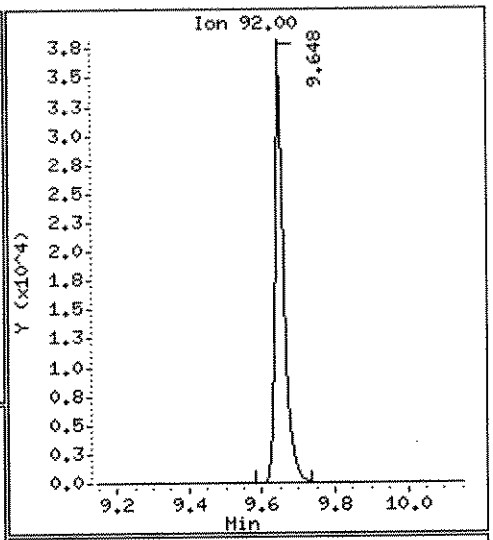
Column phase: RTX-VRX

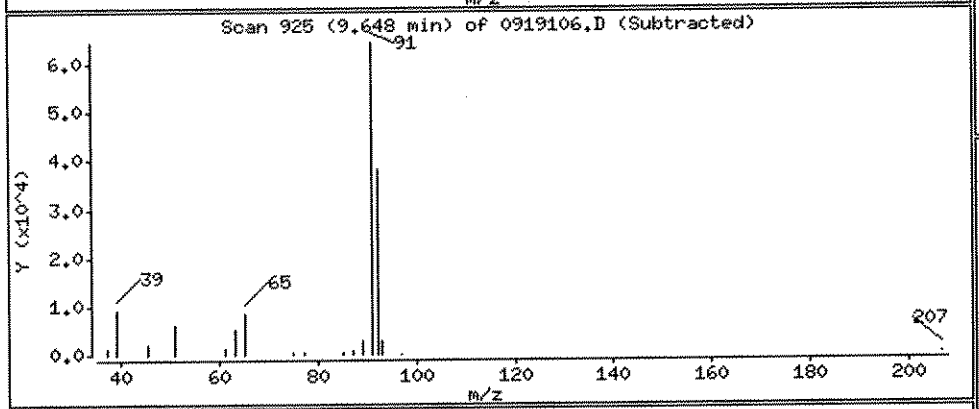
Column diameter: 0.25

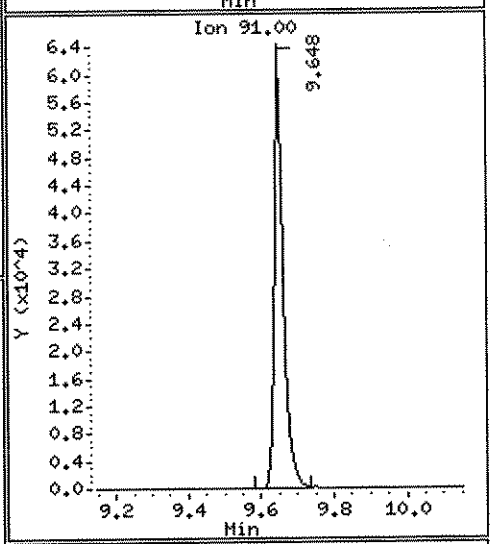
74 Toluene

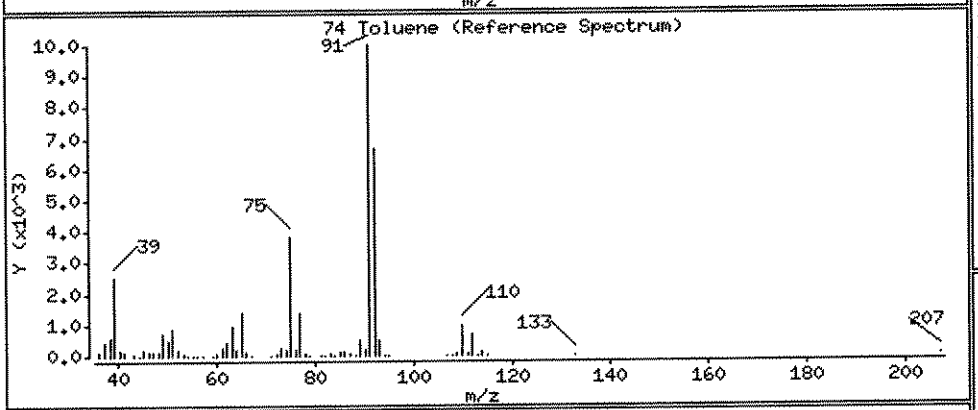
Concentration: 4.346 ug/Kg

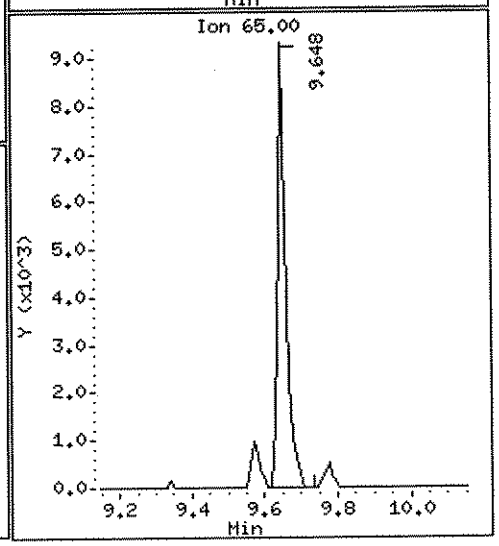


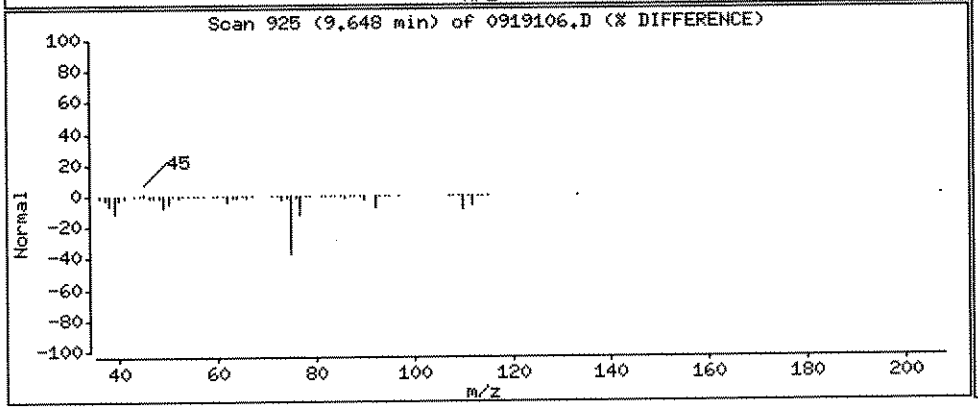












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Date : 27-SEP-2011 12:40

Client ID: FLC-4-SS02-0204-092

Instrument: voa5.i

Sample Info: 1109191-06;;;;;

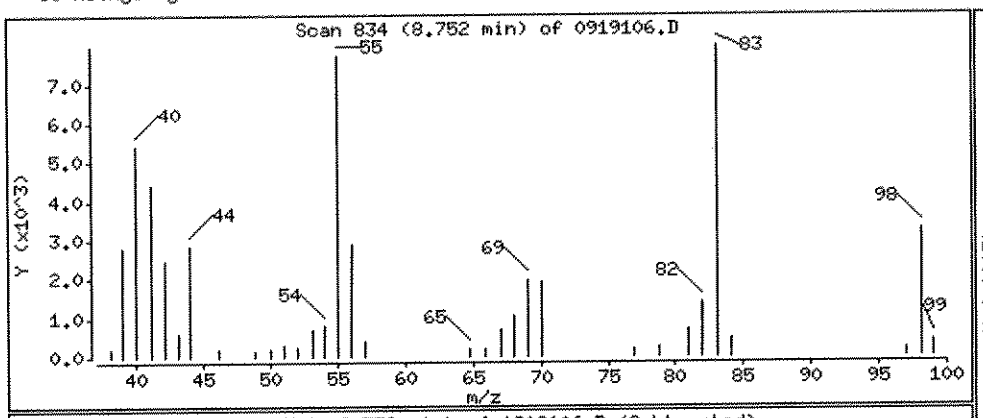
Operator: ADM

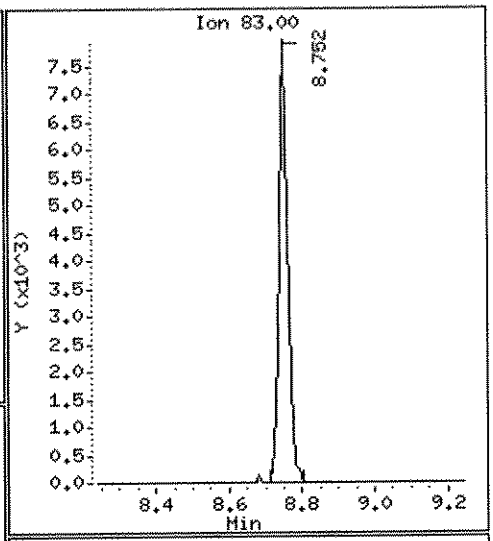
Column phase: RTX-VRX

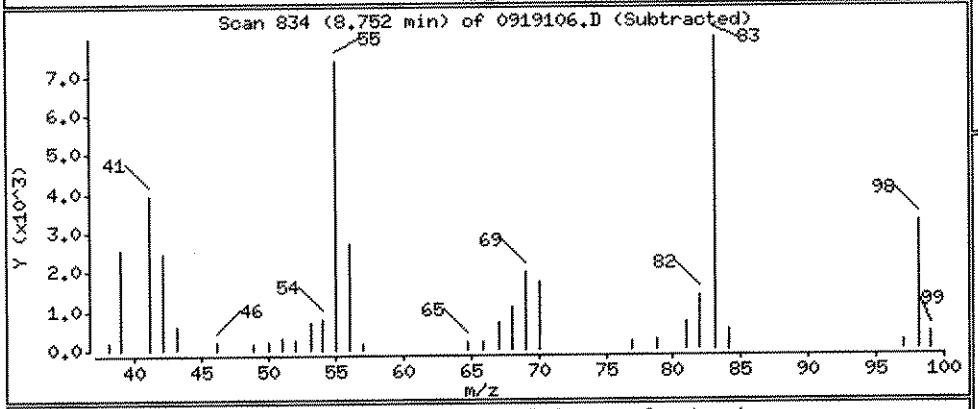
Column diameter: 0.25

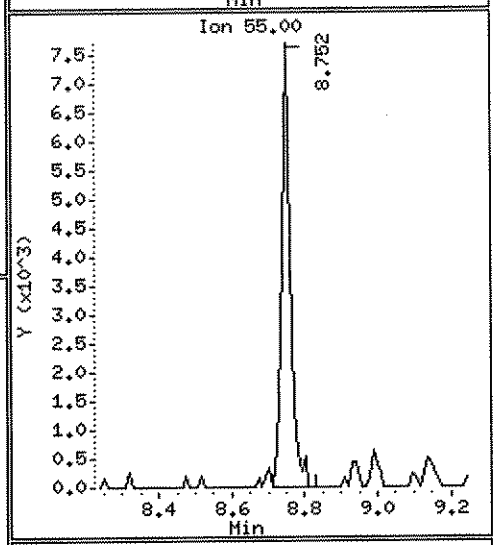
63 Methyl cyclohexane

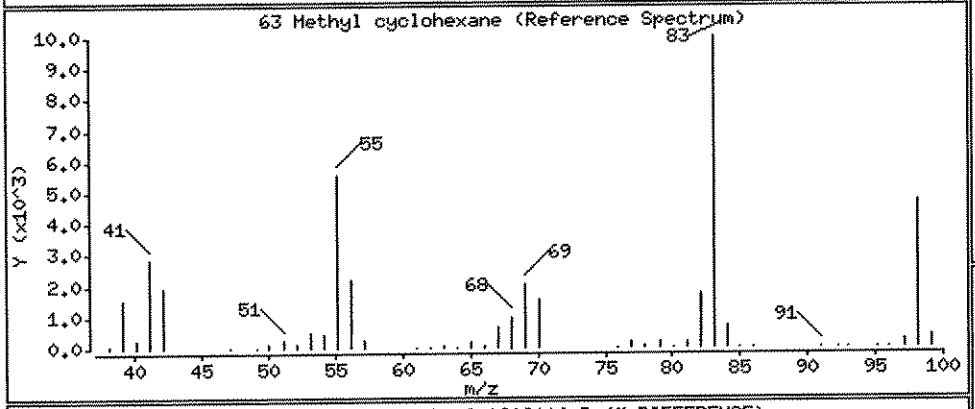
Concentration: 1.241 ug/Kg

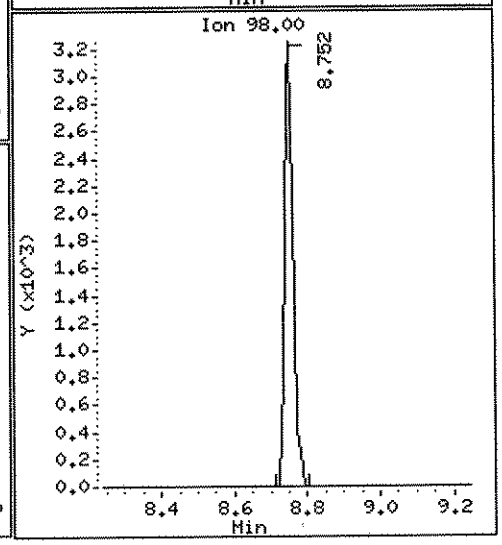


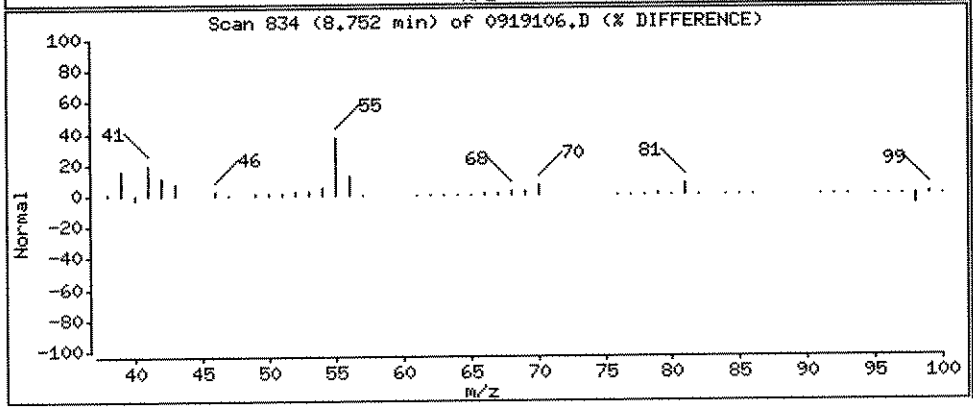












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Date : 27-SEP-2011 12:40

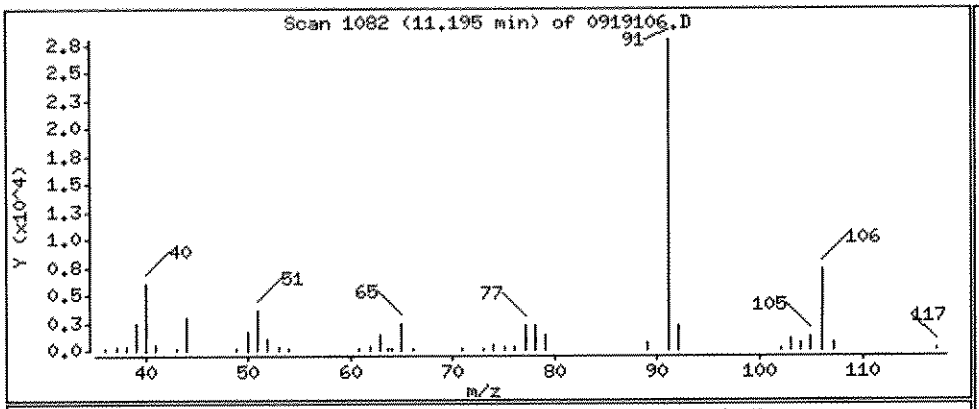
Client ID: FLC-4-SS02-0204-092 Instrument: voa5.i

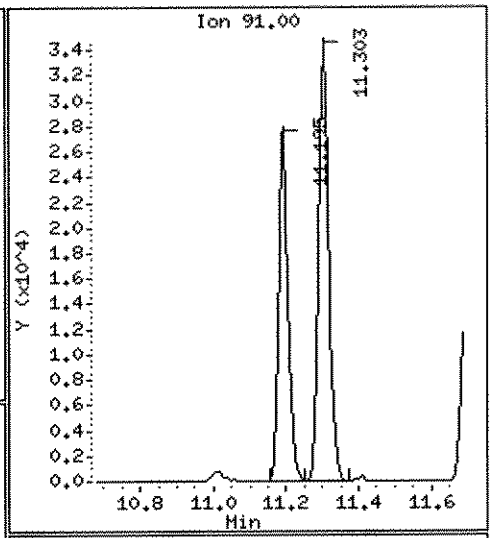
Sample Info: 1109191-06;;;;;

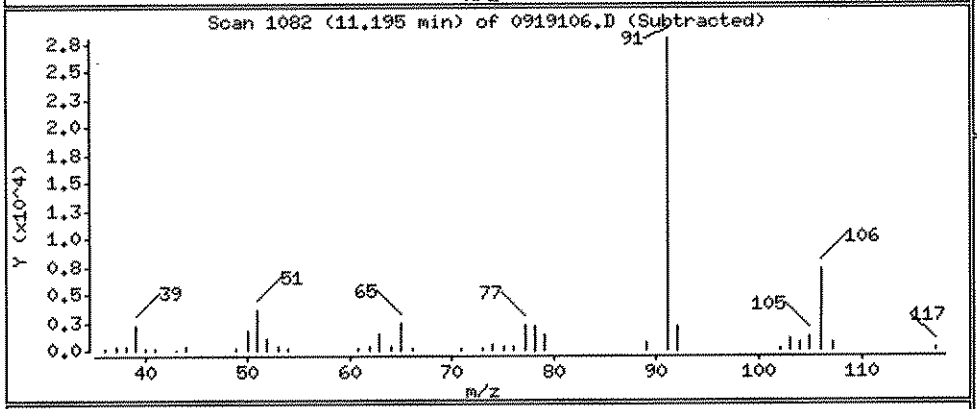
Operator: ADM

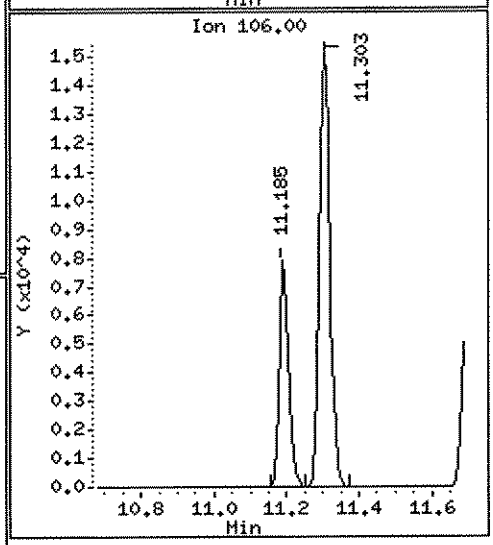
Column phase: RTX-VRX Column diameter: 0.25

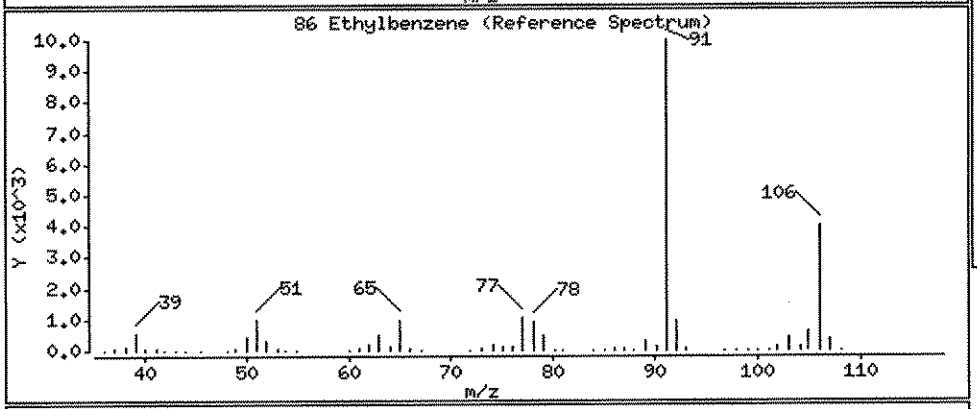
86 Ethylbenzene Concentration: 1.941 ug/Kg

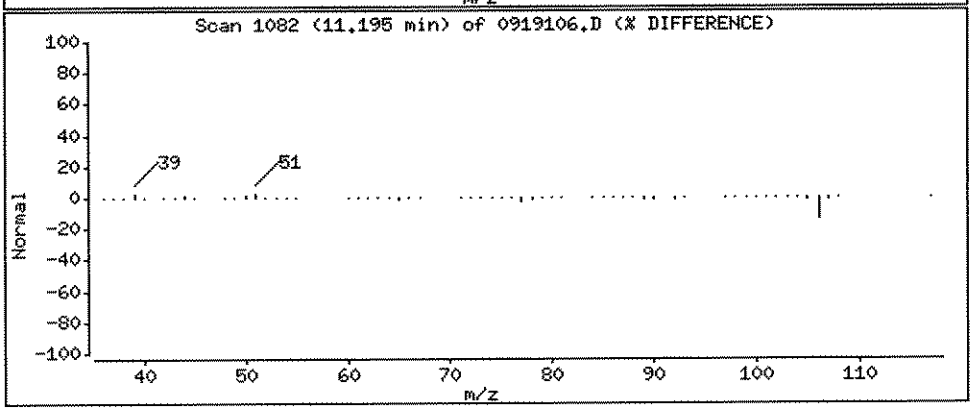












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Date : 27-SEP-2011 12:40

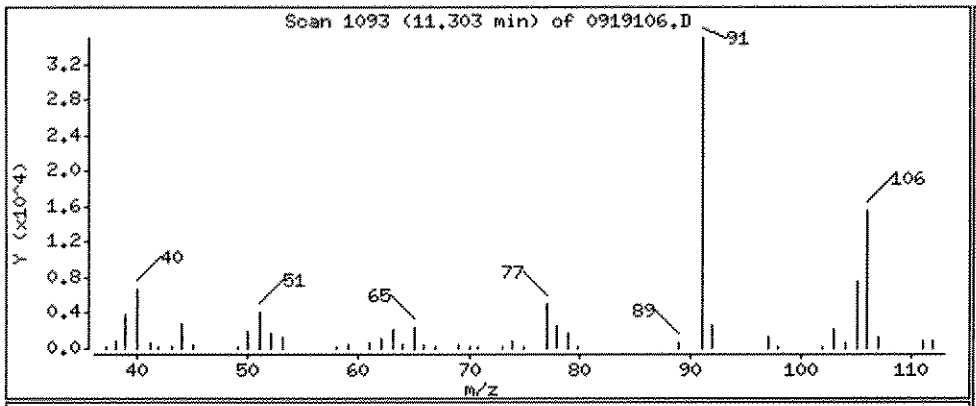
Client ID: FLC-4-SS02-0204-092 Instrument: voa5.i

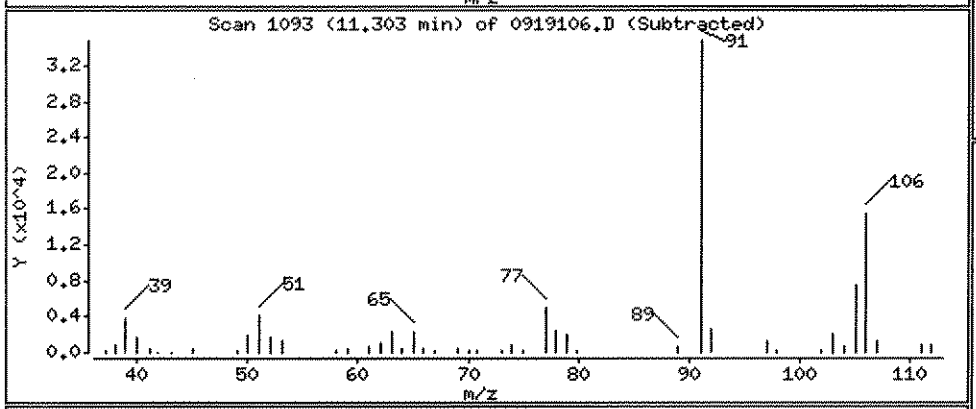
Sample Info: 1109191-06;;;;;

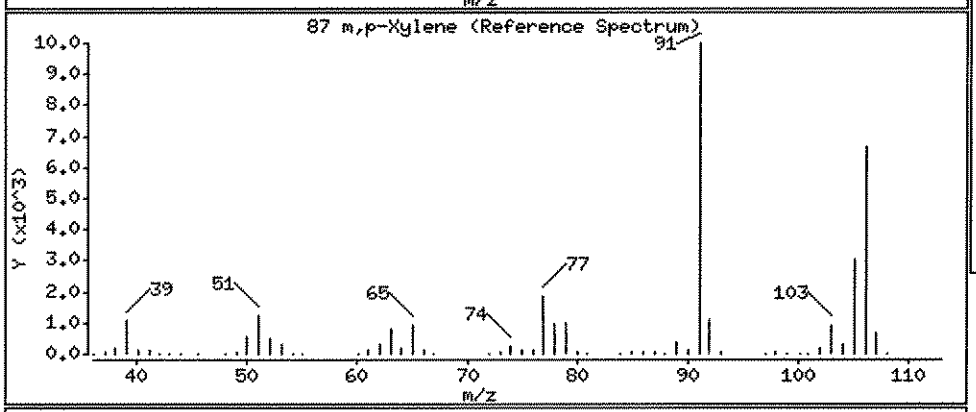
Operator: ADM

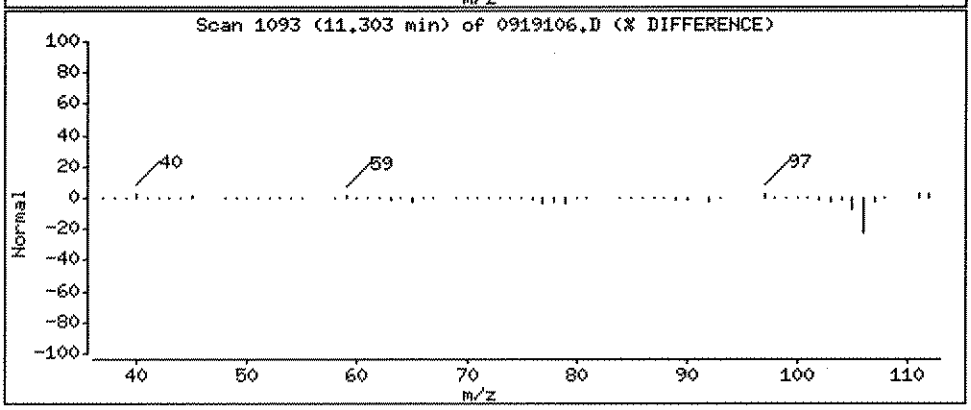
Column phase: RTX-VRX Column diameter: 0.25

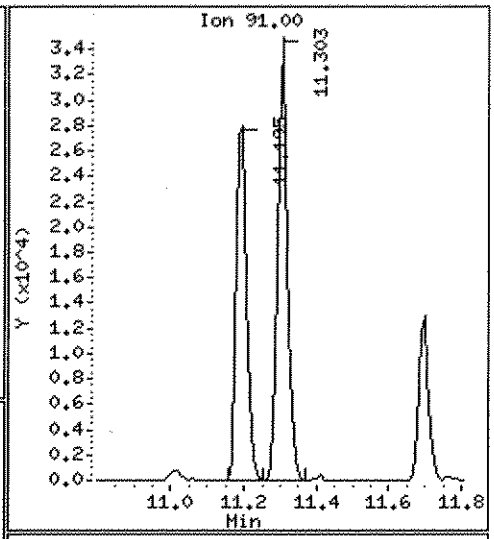
87 m,p-Xylene Concentration: 3.547 ug/Kg

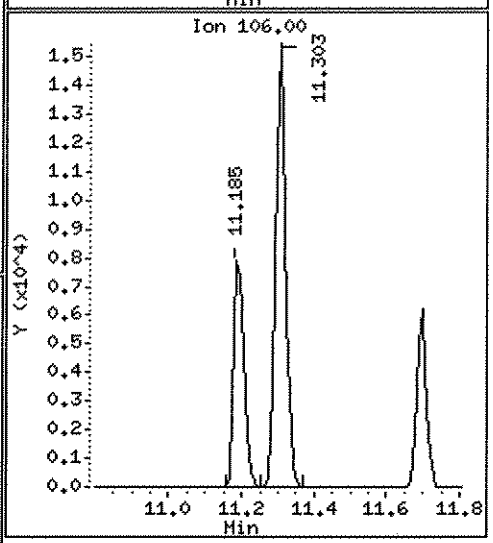












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Date : 27-SEP-2011 12:40

Client ID: FLC-4-SS02-0204-092

Instrument: voa5.i

Sample Info: 1109191-06;;;;;

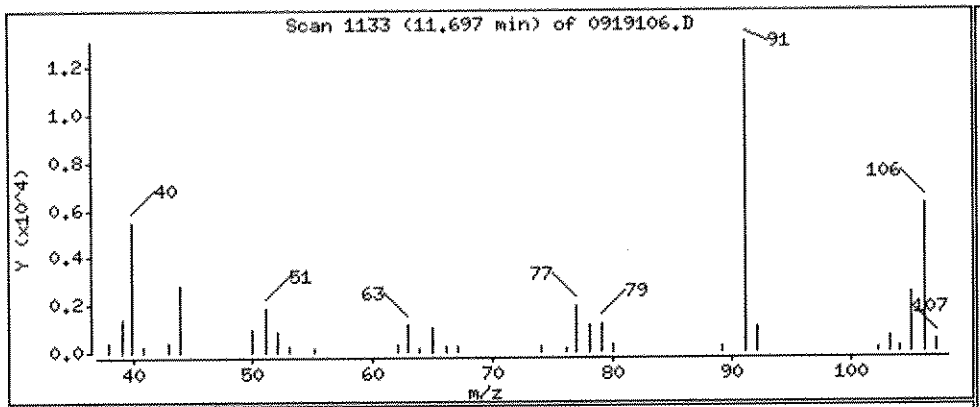
Operator: ADM

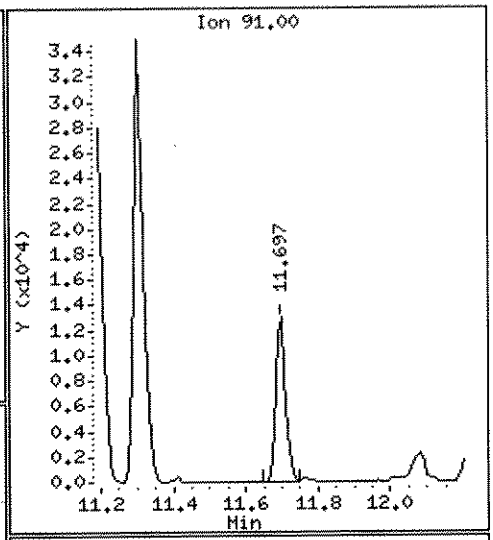
Column phase: RTX-VRX

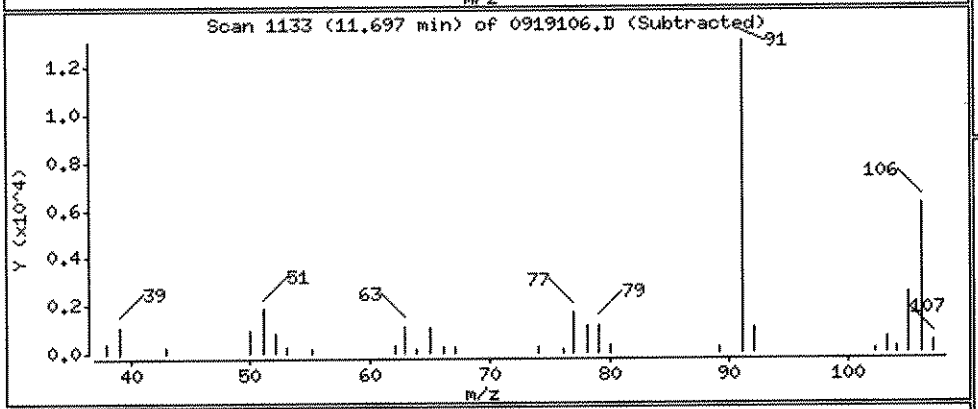
Column diameter: 0.25

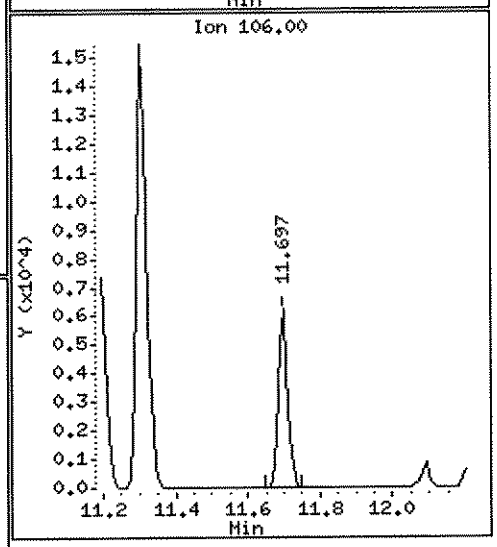
89 o-Xylene

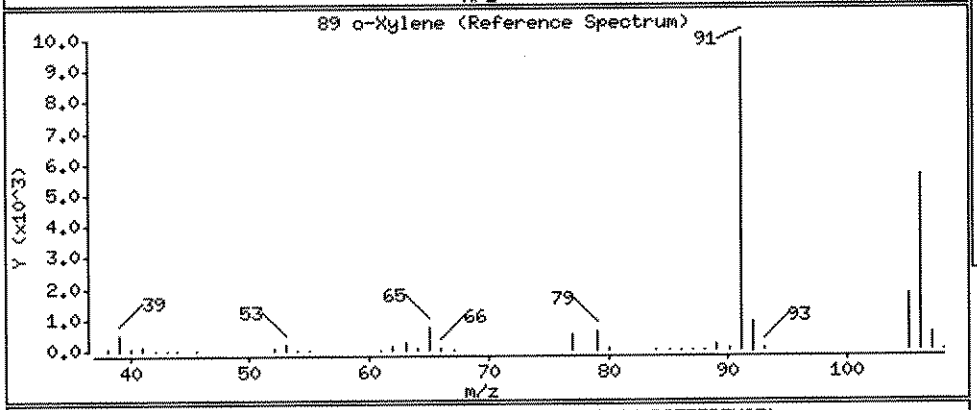
Concentration: 1.280 ug/Kg

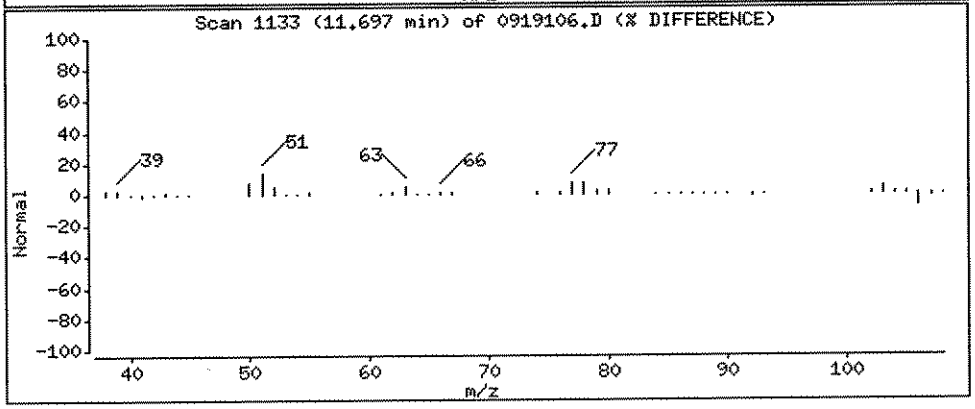












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Date : 27-SEP-2011 12:40

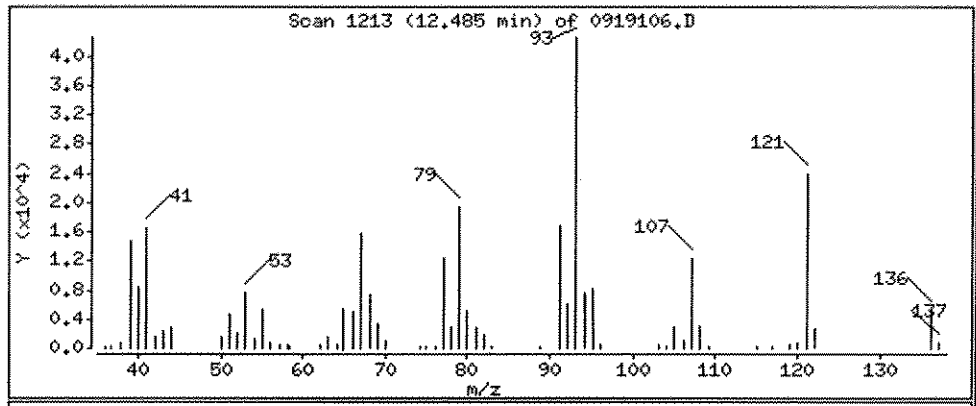
Client ID: FLC-4-SS02-0204-092 Instrument: voa5.i

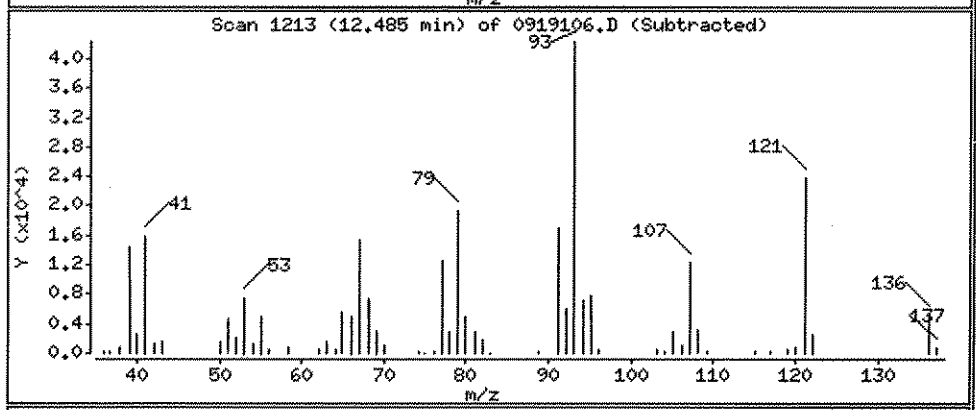
Sample Info: 1109191-06;;;;;

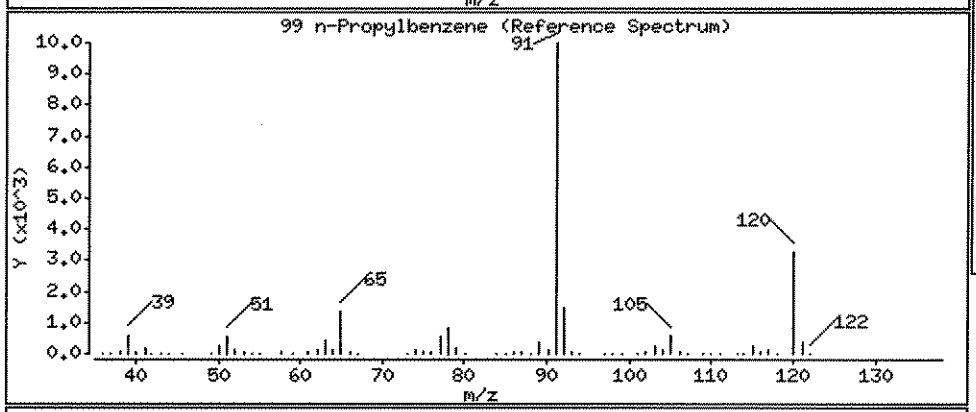
Operator: ADM

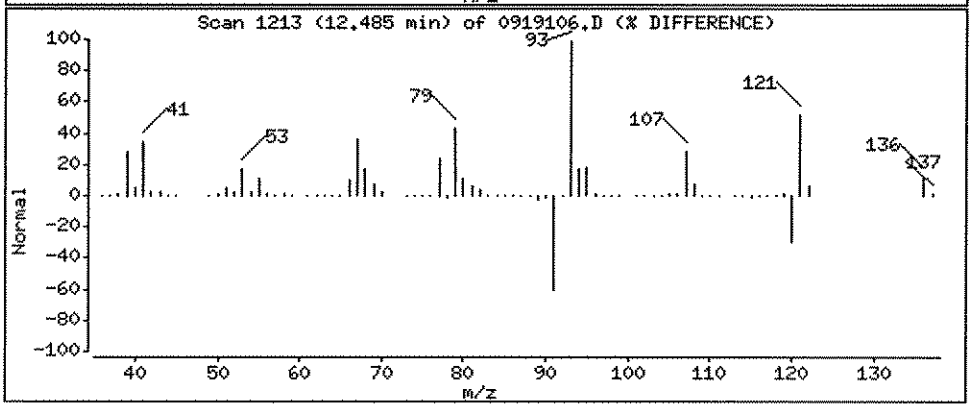
Column phase: RTX-VRX Column diameter: 0.25

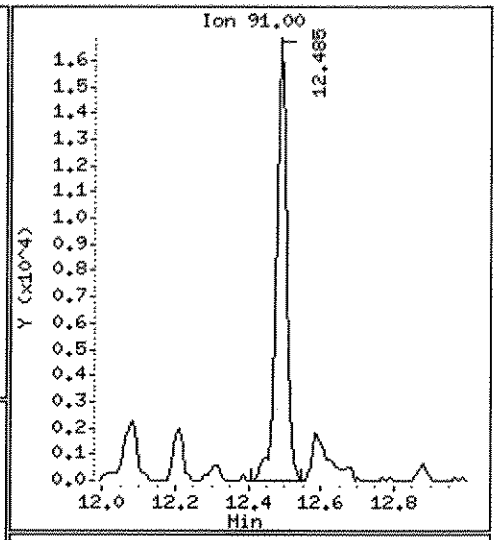
99 n-Propylbenzene Concentration: 1.325 ug/Kg

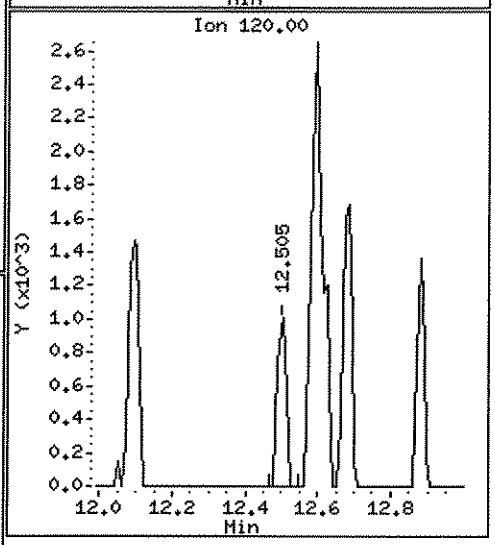












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Date : 27-SEP-2011 12:40

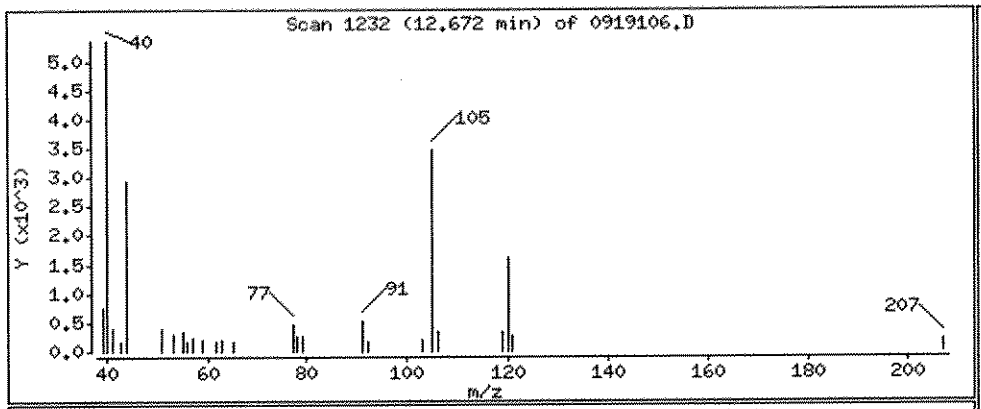
Client ID: FLC-4-SS02-0204-092 Instrument: voa5.i

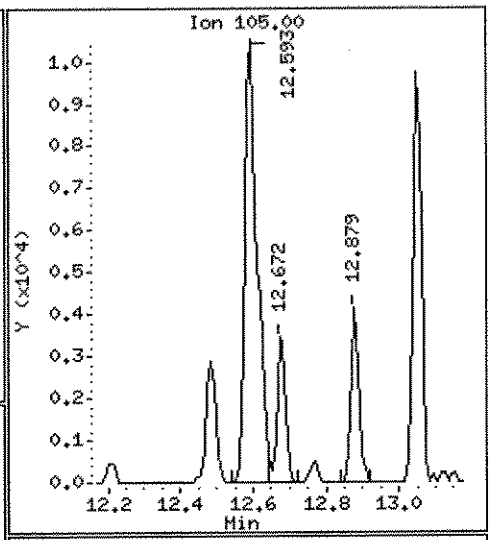
Sample Info: 1109191-06;;;;;

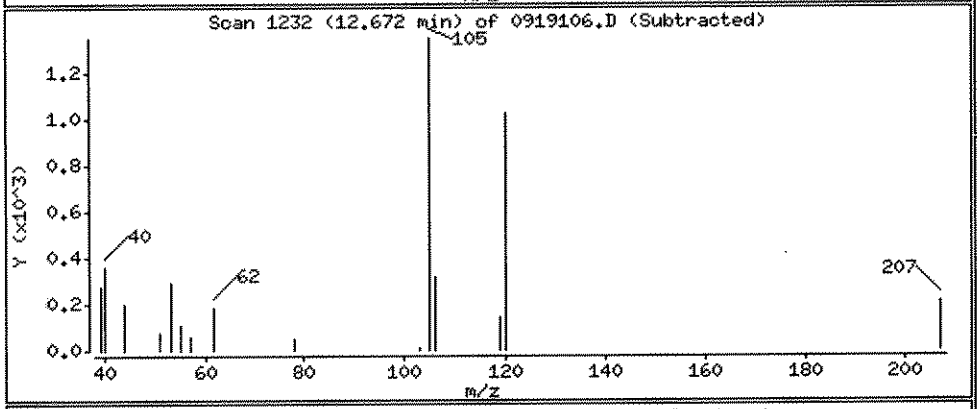
Operator: ADM

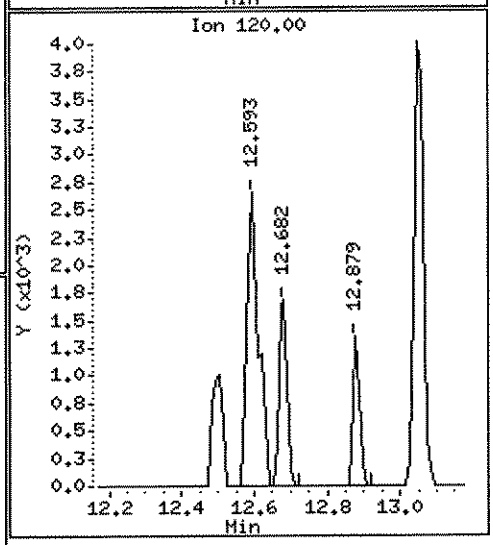
Column phase: RTX-VRX Column diameter: 0.25

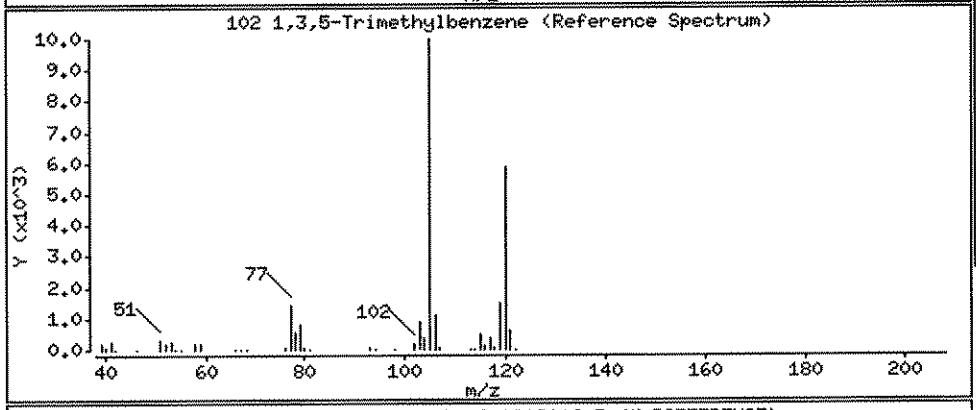
102 1,3,5-Trimethylbenzene Concentration: 0.4396 ug/Kg

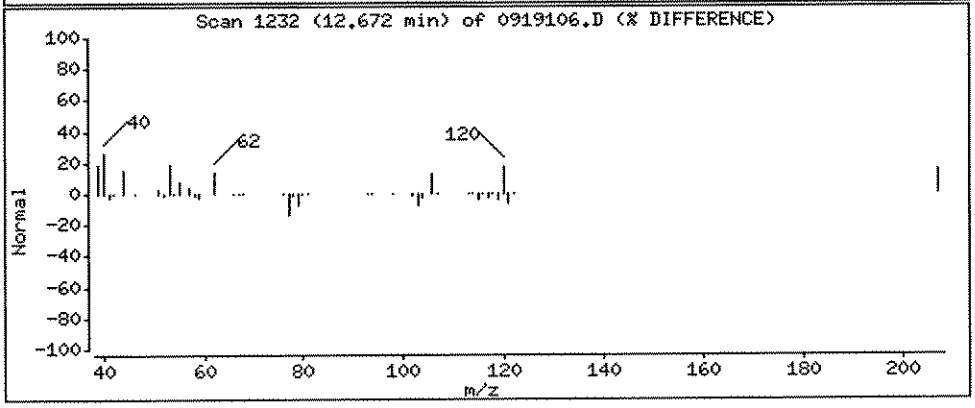












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Date : 27-SEP-2011 12:40

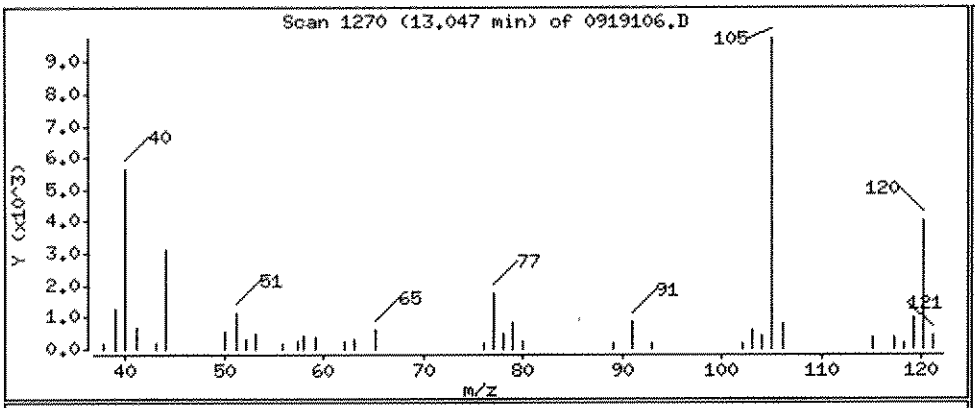
Client ID: FLC-4-SS02-0204-092 Instrument: voa5.i

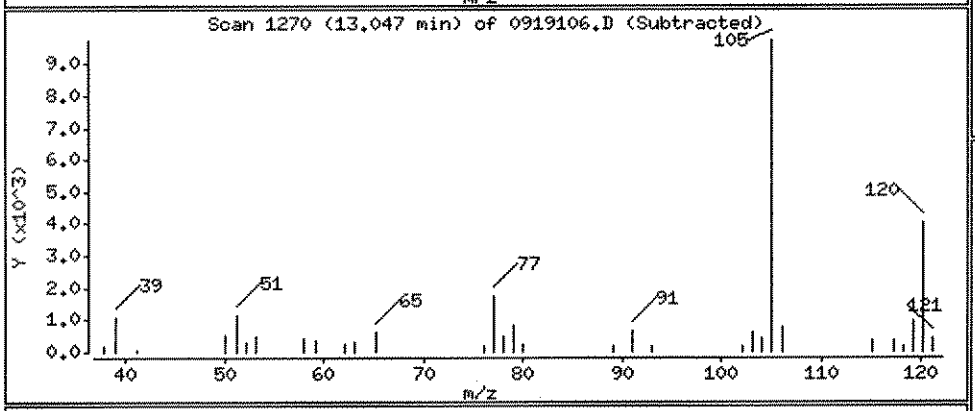
Sample Info: 1109191-06;;;;;

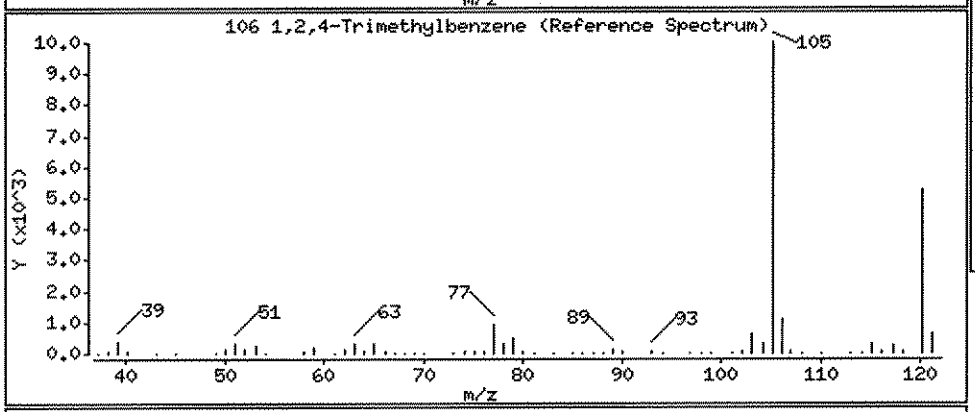
Operator: ADM

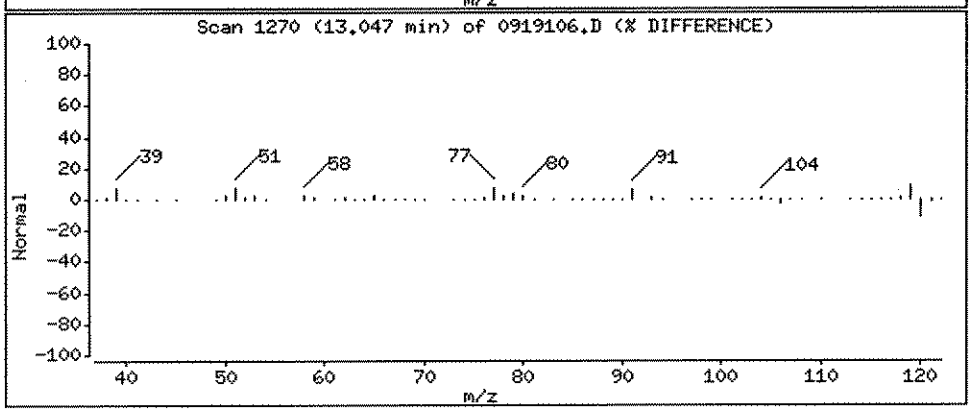
Column phase: RTX-VRX Column diameter: 0.25

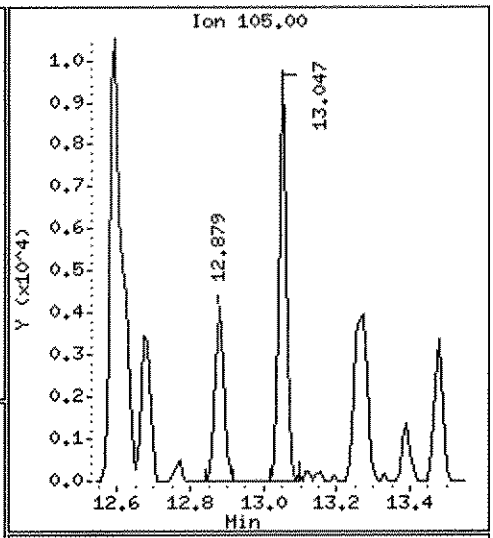
106 1,2,4-Trimethylbenzene Concentration: 1.142 ug/Kg

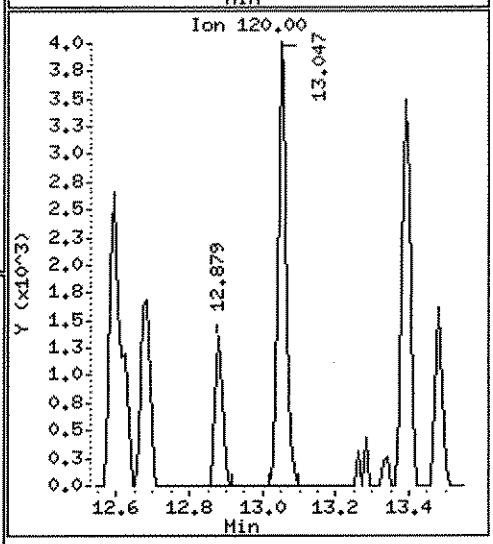












Data File: \\ELABNSH05\TARGET\chem\voa5.i\092711V5.b\0919102M.D
Report Date: 28-Sep-2011 07:22

Laboratory Name

Data file : \\ELABNSH05\TARGET\chem\voa5.i\092711V5.b\0919102M.D
Lab Smp Id: 1I27005-MS1 Client Smp ID: 1I27005-MS1
Inj Date : 27-SEP-2011 17:58 MS Autotune Date: 28-JUL-1998 05:19
Operator : ADM Inst ID: voa5.i
Smp Info : 1I27005-MS1;;;;;
Misc Info : ;3;MS;;;8260.sub;
Comment :
Method : \\ELABNSH05\TARGET\chem\voa5.i\092711V5.b\VS5SUR.m
Meth Date : 28-Sep-2011 07:17 amonteiro Quant Type: ISTD
Cal Date : 22-SEP-2011 14:24 Cal File: 0922CAL1.D
Als bottle: 25 QC Sample: MS
Dil Factor: 1.00000
Integrator: HP RTE Compound Sublist: 8260.sub
Target Version: 4.04
Processing Host: TARGET02_VM

Concentration Formula: Amt * DF * 5*Uf/(Ws*(Solids/100))

Name	Value	Description
DF	1.000	Dilution Factor
Uf	1.000	unit correction factor
Ws	5.000	Weight of sample extracted (g)
Solids	100.000	Percent Solids

mg/28/11

9-29-11

Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS ON-COLUMN (ug/Kg)	FINAL (ug/Kg)
* 55 Fluorobenzene	96	7.871	7.864	(1.000)	908346	30.0000	
1 Dichlorodifluoromethane	85	1.981	1.974	(0.252)	357679	47.5535	47.55
2 Chloromethane	50	2.197	2.191	(0.279)	450710	47.9111	47.91
3 Vinyl chloride	62	2.335	2.338	(0.297)	315383	62.4355	62.44
4 Bromomethane	94	2.769	2.772	(0.352)	313456	86.8008	86.80(R)
5 Chloroethane	64	2.906	2.900	(0.369)	257375	50.4818	50.48
7 Trichlorofluoromethane	101	3.389	3.392	(0.431)	653142	52.3905	52.39
11 Ethyl Ether	59	3.803	3.806	(0.483)	371387	50.2691	50.27
10 Acetonitrile	41	3.763	3.767	(0.478)	520893	398.900	398.9
13 Trichlorotrifluoroethane	101	4.246	4.240	(0.539)	404095	45.0320	45.03
8 Acrolein	56	3.576	3.570	(0.454)	350042	320.343	320.3(Q)
19 Allyl chloride	76	4.601	4.604	(0.585)	255403	54.0971	54.10
12 1,1-Dichloroethene	96	4.167	4.161	(0.529)	400343	48.8920	48.89
9 Acetone	43	3.685	3.688	(0.468)	289026	103.057	103.0
14 t-Butyl alcohol	59	4.295	4.299	(0.546)	201976	271.860	271.9

Data File: \\ELABNSH05\TARGET\chem\voa5.i\092711V5.b\0919102M.D
Report Date: 28-Sep-2011 07:22

	Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS ON-COLUMN (ug/Kg)	FINAL (ug/Kg)
	16 Iodomethane	142	4.364	4.358	(0.554)	281769	48.2902	48.29
	22 Carbon disulfide	76	4.709	4.702	(0.598)	1289683	39.9500	39.95
	20 Methylene chloride	84	4.650	4.643	(0.591)	524357	49.6203	49.62
	18 Acrylonitrile	53	4.522	4.515	(0.575)	609557	222.852	222.8
	24 trans-1,2-Dichloroethene	96	5.320	5.323	(0.676)	428551	49.1917	49.19
	23 MTBE	73	5.310	5.313	(0.675)	978195	48.7580	48.76
	26 1,1-Dichloroethane	63	5.694	5.697	(0.723)	881009	47.1630	47.16
	28 Propionitrile	54	5.862	5.855	(0.745)	461106	467.291	467.3
	27 Vinyl acetate	43	5.763	5.766	(0.732)	1568492	105.174	105.2
	30 Chloroprene	53	5.960	5.963	(0.757)	698767	46.8342	46.83
	33 Di-isopropyl ether	45	6.068	6.062	(0.771)	1913141	47.3875	47.39
	37 cis-1,2-Dichloroethene	96	6.413	6.407	(0.815)	463619	50.3814	50.38
M	6 1,2-Dichloroethene(total)	96				892170	99.5731	99.57
	34 2-Butanone	43	6.137	6.141	(0.780)	446040	90.3874	90.39
	36 Methacrylonitrile	41	6.315	6.318	(0.802)	2267125	448.843	448.8
	29 Hexane	57	5.911	5.904	(0.751)	699245	43.9837	43.98
	42 Bromochloromethane	128	6.689	6.692	(0.850)	186630	49.8874	49.89
	43 Isobutyl alcohol	42	6.748	6.751	(0.857)	185878	831.062	831.1
	45 Tetrahydrofuran	42	6.866	6.870	(0.872)	122787	46.7380	46.74
	46 tert-Amyl alcohol	59	7.034	7.037	(0.894)	177138	300.101	300.1
	41 Chloroform	83	6.669	6.663	(0.847)	765937	48.2479	48.25
	17 Methyl acetate	43	4.502	4.505	(0.572)	323999	46.8845	46.88
$	44 Dibromofluoromethane	111	6.837	6.840	(0.869)	260988	33.5499	33.55
	47 1,1,1-Trichloroethane	97	7.231	7.224	(0.919)	582665	51.2845	51.28
	40 ETBE	59	6.531	6.535	(0.830)	1085136	38.9949	38.99(Q)
	51 Cyclohexane	56	7.507	7.500	(0.954)	715292	40.6779	40.68
	52 Carbon tetrachloride	117	7.575	7.569	(0.962)	442212	51.1569	51.16
$	48 1,2-Dichloroethane-d4	102	7.339	7.332	(0.932)	48607	30.4114	30.41(Q)
	53 Benzene	78	7.605	7.598	(0.966)	1779852	50.9073	50.91
	54 tert-Amyl Methyl Ether	73	7.792	7.795	(0.990)	678957	30.3542	30.35
	49 1,2-Dichloroethane	62	7.428	7.431	(0.944)	513391	46.4755	46.48
	39 2,2-Dichloropropane	77	6.522	6.515	(0.829)	558156	47.1112	47.11
	50 1,1-Dichloropropene	75	7.447	7.451	(0.946)	615962	47.6033	47.60
	56 Trichloroethene	95	8.364	8.367	(1.063)	437869	45.8551	45.86
	60 1,4-Dioxane	88	8.570	8.574	(1.089)	61423	897.560	897.6
	57 1,2-Dichloropropane	63	8.413	8.416	(1.069)	495885	46.4019	46.40
	58 Dibromomethane	93	8.531	8.524	(1.084)	256744	47.4480	47.45
	59 Methyl methacrylate	41	7.507	7.500	(0.954)	430203	38.5829	38.58
	61 Bromodichloromethane	83	8.590	8.593	(1.091)	536987	46.7436	46.74
	62 tert-Amyl Ethyl Ether	59	8.679	8.682	(1.103)	264496	12.1767	12.18(R)
	66 2-Chloroethyl vinyl ether	63	9.023	9.017	(1.146)	1969	82.5172	82.52(R)
	70 cis-1,3-Dichloropropene	75	9.171	9.165	(1.165)	654946	49.8044	49.80
	69 4-Methyl-2-pentanone	43	9.092	9.086	(1.155)	853516	101.947	101.9
$	71 Toluene-d8	98	9.565	9.568	(0.869)	791635	31.9612	31.96
	74 Toluene	92	9.644	9.647	(0.876)	966653	54.0812	54.08
	73 trans-1,3-Dichloropropene	75	9.644	9.637	(0.876)	478779	44.3910	44.39
	76 Ethyl methacrylate	69	9.831	9.834	(0.893)	519611	57.0255	57.02

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	Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS ON-COLUMN (ug/Kg)	FINAL (ug/Kg)
	75 1,1,2-Trichloroethane	83	9.802	9.795	(0.891)	295761	51.8111	51.81
	80 Tetrachloroethene	166	10.383	10.376	(0.944)	326858	50.8485	50.85
	77 2-Hexanone	43	9.940	9.943	(0.903)	567592	99.0095	99.01
	79 Dibromochloromethane	129	10.265	10.268	(0.933)	318292	49.4468	49.45
	81 1,2-Dibromoethane	107	10.481	10.485	(0.953)	321889	52.6637	52.66
	63 Methyl cyclohexane	83	8.748	8.741	(1.111)	593861	41.2507	41.25
*	82 Chlorobenzene-d5	82	11.003	10.997	(1.000)	376933	30.0000	
	84 Chlorobenzene	112	11.043	11.036	(1.004)	865485	49.5487	49.55
	85 1,1,1,2-Tetrachloroethane	131	11.082	11.076	(1.007)	276705	49.2545	49.25
	83 1-Chlorohexane	91	11.003	11.007	(1.000)	484005	43.9520	43.95
	86 Ethylbenzene	91	11.191	11.184	(1.017)	1661552	50.7561	50.76
	87 m,p-Xylene	91	11.299	11.302	(1.027)	2343413	103.498	103.5
M	119 Xylene(total)	91				3543026	154.722	154.7
	89 o-Xylene	91	11.693	11.696	(1.063)	1199613	51.2238	51.22
	88 Styrene	104	11.663	11.657	(1.060)	905598	50.4309	50.43
	90 Bromoform	173	11.762	11.765	(1.069)	197857	52.7128	52.71
	91 cis-1,4-Dichloro-2-butene	53	11.841	11.844	(0.884)	97604	55.5688	55.57
	94 Isopropylbenzene	105	12.087	12.090	(1.098)	1207124	47.4267	47.43
$	97 Bromofluorobenzene	95	12.195	12.199	(1.108)	333867	31.9400	31.94
	93 1,1,2,2-Tetrachloroethane	83	12.008	12.011	(0.896)	386850	55.7197	55.72
	78 1,3-Dichloropropane	76	10.009	10.012	(0.910)	578746	51.9852	51.98
	95 1,2,3-Trichloropropane	110	12.136	12.139	(1.103)	90099	53.5974	53.60(Q)
	96 trans-1,4-Dichloro-2-butene	53	12.156	12.159	(0.907)	92028	49.3470	49.35(Q)
	99 n-Propylbenzene	91	12.491	12.494	(0.932)	1590126	49.1933	49.19
	102 1,3,5-Trimethylbenzene	105	12.678	12.671	(0.946)	947014	51.4418	51.44
	106 1,2,4-Trimethylbenzene	105	13.042	13.046	(0.974)	891576	52.3300	52.33
	107 sec-Butylbenzene	105	13.249	13.252	(0.989)	1198545	47.3902	47.39
	105 tert-Butylbenzene	119	13.013	13.016	(0.971)	820339	50.4228	50.42
	108 1,3-Dichlorobenzene	146	13.338	13.341	(0.996)	456454	45.6352	45.64
*	110 1,4-Dichlorobenzene-d4	152	13.397	13.400	(1.000)	241779	30.0000	(Q)
	111 1,4-Dichlorobenzene	146	13.427	13.430	(1.002)	444365	46.7768	46.78
	113 n-Butylbenzene	91	13.791	13.784	(1.029)	746377	41.7254	41.72
	112 1,2-Dichlorobenzene	146	13.752	13.745	(1.026)	404020	44.1613	44.16
	117 1,2-Dibromo-3-chloropropane	157	14.392	14.385	(1.074)	46499	51.6768	51.68
	118 1,3,5-Trichlorobenzene	180	14.914	14.917	(1.113)	196729	35.7296	35.73
	98 Bromobenzene	156	12.363	12.356	(0.923)	307940	50.0567	50.06
	100 2-Chlorotoluene	91	12.579	12.583	(0.939)	979854	48.6622	48.66
	101 4-Chlorotoluene	91	12.639	12.642	(0.943)	1028669	48.1582	48.16
	120 1,2,4-Trichlorobenzene	180	15.466	15.469	(1.154)	137126	29.4589	29.46(R)
	121 Naphthalene	128	15.623	15.617	(1.166)	254075	34.7480	34.75
	109 p-Isopropyltoluene	119	13.387	13.390	(0.999)	746686	45.1879	45.19
	122 Hexachlorobutadiene	225	15.751	15.754	(1.176)	85846	23.7386	23.74(R)
	123 1,2,3-Trichlorobenzene	180	15.909	15.902	(1.187)	104233	24.6414	24.64(R)

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QC Flag Legend

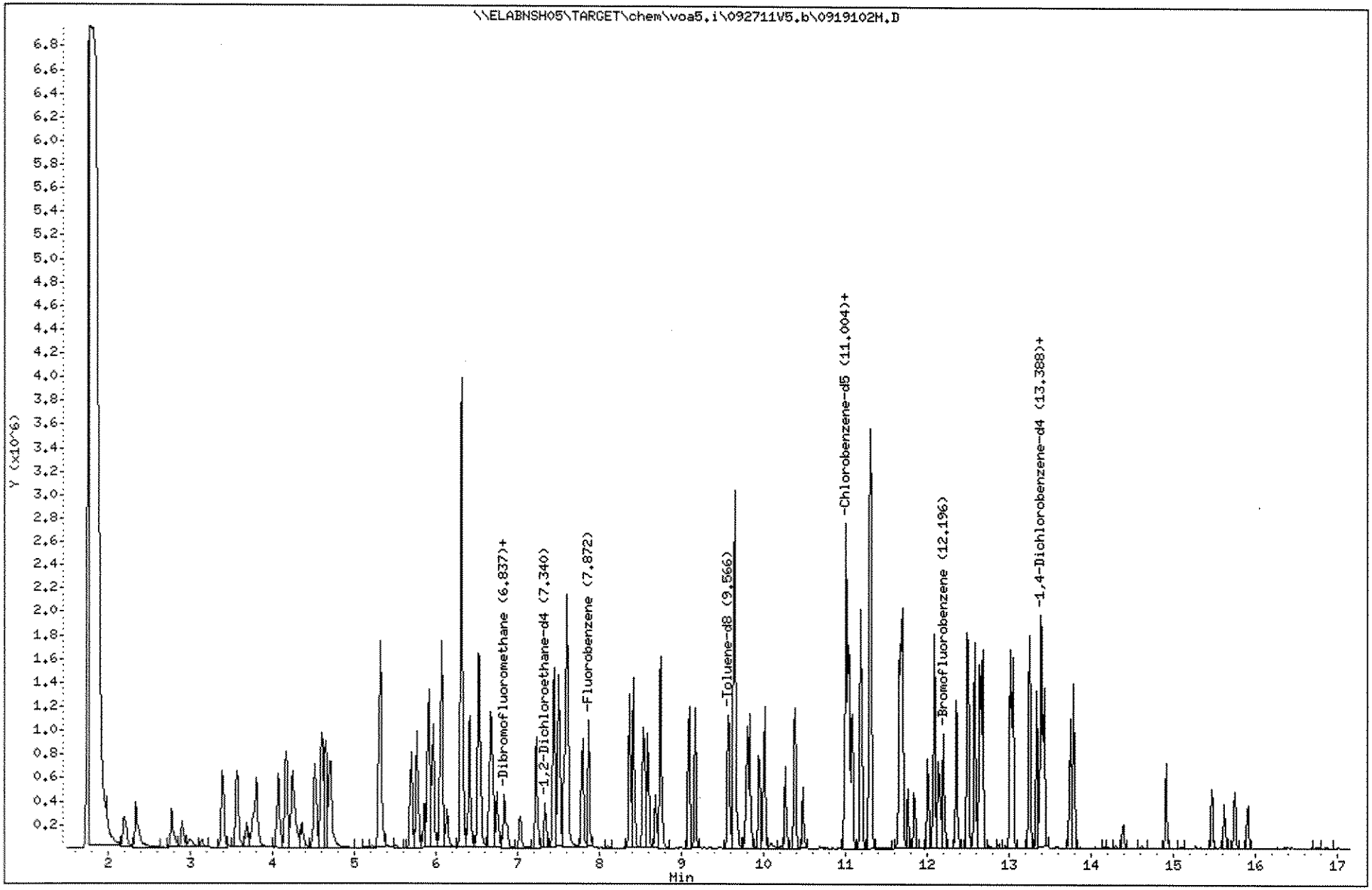
Q - Qualifier signal failed the ratio test.
R - Spike/Surrogate failed recovery limits.

Data File: \\ELABNSH05\TARGET\chem\voa5.i\092711V5.b\0919102H.D
Date : 27-SEP-2011 17:58
Client ID: 1I27005-MS1
Sample Info: 1I27005-MS1;;;;;

Column phase: RTX-VRX

Instrument: voa5.i

Operator: ADM
Column diameter: 0.25



Data File: \\ELABNSH05\TARGET\chem\voa5.i\092711V5.b\0919102S.D
Report Date: 28-Sep-2011 07:22

Laboratory Name

Data file : \\ELABNSH05\TARGET\chem\voa5.i\092711V5.b\0919102S.D
Lab Smp Id: 1I27005-MSD1 Client Smp ID: 1I27005-MSD1
Inj Date : 27-SEP-2011 18:24 MS Autotune Date: 28-JUL-1998 05:19
Operator : ADM Inst ID: voa5.i
Smp Info : 1I27005-MSD1;;;;;
Misc Info : ;3;MSD;;;8260.sub;
Comment :
Method : \\ELABNSH05\TARGET\chem\voa5.i\092711V5.b\VS5SUR.m
Meth Date : 28-Sep-2011 07:17 amonteiro Quant Type: ISTD
Cal Date : 22-SEP-2011 14:24 Cal File: 0922CAL1.D
Als bottle: 26 QC Sample: MSD
Dil Factor: 1.00000
Integrator: HP RTE Compound Sublist: 8260.sub
Target Version: 4.04
Processing Host: TARGET02_VM

Concentration Formula: Amt * DF * 5*Uf/(Ws*(Solids/100))

Name	Value	Description
DF	1.000	Dilution Factor
Uf	1.000	unit correction factor
Ws	5.000	Weight of sample extracted (g)
Solids	100.000	Percent Solids

MG 9/28/11

9-29-11

Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS ON-COLUMN (ug/Kg)	FINAL (ug/Kg)
* 55 Fluorobenzene	96	7.864	7.864	(1.000)	870593	30.0000	
1 Dichlorodifluoromethane	85	1.984	1.974	(0.252)	407451	56.5198	56.52
2 Chloromethane	50	2.200	2.191	(0.280)	502668	55.7515	55.75
3 Vinyl chloride	62	2.338	2.338	(0.297)	354913	73.3080	73.31(R)
4 Bromomethane	94	2.772	2.772	(0.352)	330460	95.4777	95.48(R)
5 Chloroethane	64	2.900	2.900	(0.369)	291503	59.6551	59.66
7 Trichlorofluoromethane	101	3.392	3.392	(0.431)	744281	62.2900	62.29
11 Ethyl Ether	59	3.806	3.806	(0.484)	441409	62.3378	62.34
10 Acetonitrile	41	3.766	3.767	(0.479)	628477	502.159	502.2
13 Trichlorotrifluoroethane	101	4.249	4.240	(0.540)	465932	54.1747	54.17
8 Acrolein	56	3.579	3.570	(0.455)	432656	413.118	413.1(QR)
19 Allyl chloride	76	4.604	4.604	(0.585)	293203	64.7966	64.80
12 1,1-Dichloroethene	96	4.170	4.161	(0.530)	451031	57.4709	57.47
9 Acetone	43	3.688	3.688	(0.469)	355344	132.198	132.2
14 t-Butyl alcohol	59	4.298	4.299	(0.547)	253300	355.727	355.7

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	Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS ON-COLUMN (ug/Kg)	FINAL (ug/Kg)
	16 Iodomethane	142	4.357	4.358	(0.554)	386822	66.0150	66.02
	22 Carbon disulfide	76	4.702	4.702	(0.598)	1468152	47.4505	47.45
	20 Methylene chloride	84	4.653	4.643	(0.592)	592027	58.4534	58.45
	18 Acrylonitrile	53	4.515	4.515	(0.574)	723965	276.157	276.2
	24 trans-1,2-Dichloroethene	96	5.323	5.323	(0.677)	479247	57.3964	57.40
	23 MTBE	73	5.313	5.313	(0.676)	1152905	59.9584	59.96
	26 1,1-Dichloroethane	63	5.697	5.697	(0.724)	1030065	57.5336	57.53
	28 Propionitrile	54	5.855	5.855	(0.744)	552618	584.317	584.3
	27 Vinyl acetate	43	5.766	5.766	(0.733)	1746595	122.195	122.2
	30 Chloroprene	53	5.963	5.963	(0.758)	803502	56.1893	56.19
	33 Di-isopropyl ether	45	6.062	6.062	(0.771)	2186095	56.4966	56.50
	37 cis-1,2-Dichloroethene	96	6.406	6.407	(0.815)	530296	60.1262	60.13
M	6 1,2-Dichloroethene(total)	96				1009543	117.523	117.5
	34 2-Butanone	43	6.140	6.141	(0.781)	504837	106.739	106.7
	36 Methacrylonitrile	41	6.308	6.318	(0.802)	2672526	552.048	552.0
	29 Hexane	57	5.914	5.904	(0.752)	765062	50.2105	50.21
	42 Bromochloromethane	128	6.692	6.692	(0.851)	217217	60.5814	60.58(Q)
	43 Isobutyl alcohol	42	6.751	6.751	(0.858)	249837	1165.46	1165
	45 Tetrahydrofuran	42	6.869	6.870	(0.874)	144030	57.2015	57.20
	46 tert-Amyl alcohol	59	7.037	7.037	(0.895)	215215	380.421	380.4(R)
	41 Chloroform	83	6.662	6.663	(0.847)	876730	57.6218	57.62
	17 Methyl acetate	43	4.505	4.505	(0.573)	415194	62.6863	62.69
$	44 Dibromofluoromethane	111	6.840	6.840	(0.870)	253605	34.0145	34.01
	47 1,1,1-Trichloroethane	97	7.234	7.224	(0.920)	667669	61.3147	61.31
	40 ETBE	59	6.534	6.535	(0.831)	1252459	46.9595	46.96(Q)
	51 Cyclohexane	56	7.500	7.500	(0.954)	797991	47.3488	47.35
	52 Carbon tetrachloride	117	7.569	7.569	(0.962)	518398	62.5711	62.57
$	48 1,2-Dichloroethane-d4	102	7.342	7.332	(0.934)	48982	31.9750	31.98(Q)
	53 Benzene	78	7.598	7.598	(0.966)	2012764	60.0655	60.06
	54 tert-Amyl Methyl Ether	73	7.795	7.795	(0.991)	740183	34.5264	34.53
	49 1,2-Dichloroethane	62	7.431	7.431	(0.945)	594607	56.1619	56.16
	39 2,2-Dichloropropane	77	6.515	6.515	(0.828)	632438	55.6958	55.70
	50 1,1-Dichloropropene	75	7.450	7.451	(0.947)	697924	56.2766	56.28
	56 Trichloroethene	95	8.367	8.367	(1.064)	497023	54.3070	54.31
	60 1,4-Dioxane	88	8.564	8.574	(1.089)	78228	1192.70	1193
	57 1,2-Dichloropropane	63	8.416	8.416	(1.070)	559364	54.6117	54.61
	58 Dibromomethane	93	8.524	8.524	(1.084)	306724	59.1428	59.14
	59 Methyl methacrylate	41	7.500	7.500	(0.954)	475865	44.5289	44.53
	61 Bromodichloromethane	83	8.593	8.593	(1.093)	618964	56.2160	56.22
	62 tert-Amyl Ethyl Ether	59	8.682	8.682	(1.104)	296077	14.2217	14.22(R)
	66 2-Chloroethyl vinyl ether	63	9.026	9.017	(1.148)	2487	108.745	108.7(R)
	70 cis-1,3-Dichloropropene	75	9.164	9.165	(1.165)	739754	58.6930	58.69
	69 4-Methyl-2-pentanone	43	9.086	9.086	(1.155)	1010743	125.962	126.0
$	71 Toluene-d8	98	9.568	9.568	(0.870)	774990	32.6318	32.63
	74 Toluene	92	9.647	9.647	(0.877)	1093043	63.7765	63.78(R)
	73 trans-1,3-Dichloropropene	75	9.637	9.637	(0.876)	551911	53.3674	53.37
	76 Ethyl methacrylate	69	9.834	9.834	(0.894)	627305	71.7987	71.80

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Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS ON-COLUMN (ug/Kg)	FINAL (ug/Kg)
75 1,1,2-Trichloroethane	83	9.795	9.795	(0.891)	341902	62.4641	62.46
80 Tetrachloroethene	166	10.386	10.376	(0.944)	375079	60.8539	60.85
77 2-Hexanone	43	9.943	9.943	(0.904)	724281	131.763	131.8
79 Dibromochloromethane	129	10.268	10.268	(0.934)	375227	60.7930	60.79
81 1,2-Dibromoethane	107	10.484	10.485	(0.953)	375228	64.0247	64.02(R)
63 Methyl cyclohexane	83	8.741	8.741	(1.111)	646009	46.8189	46.82
* 82 Chlorobenzene-d5	82	10.997	10.997	(1.000)	361424	30.0000	
84 Chlorobenzene	112	11.036	11.036	(1.004)	970424	57.9404	57.94
85 1,1,1,2-Tetrachloroethane	131	11.075	11.076	(1.007)	324651	60.2689	60.27
83 1-Chlorohexane	91	11.006	11.007	(1.001)	545983	51.7077	51.71
86 Ethylbenzene	91	11.184	11.184	(1.017)	1878643	59.8502	59.85
87 m,p-Xylene	91	11.302	11.302	(1.028)	2633295	121.291	121.3
M 119 Xylene(total)	91				4001332	182.214	182.2(R)
89 o-Xylene	91	11.686	11.696	(1.063)	1368037	60.9222	60.92
88 Styrene	104	11.657	11.657	(1.060)	1054757	61.2577	61.26
90 Bromoform	173	11.765	11.765	(1.070)	234933	65.2763	65.28
91 cis-1,4-Dichloro-2-butene	53	11.844	11.844	(0.884)	118479	68.4857	68.48
94 Isopropylbenzene	105	12.090	12.090	(1.099)	1352487	55.4181	55.42
$ 97 Bromofluorobenzene	95	12.198	12.199	(1.109)	324600	32.3860	32.39
93 1,1,2,2-Tetrachloroethane	83	12.011	12.011	(0.896)	451201	65.9829	65.98(R)
78 1,3-Dichloropropane	76	10.012	10.012	(0.910)	662721	62.0826	62.08
95 1,2,3-Trichloropropane	110	12.129	12.139	(1.103)	103479	64.1982	64.20(Q)
96 trans-1,4-Dichloro-2-butene	53	12.159	12.159	(0.907)	112477	61.2350	61.24(Q)
99 n-Propylbenzene	91	12.494	12.494	(0.932)	1786087	56.1013	56.10
102 1,3,5-Trimethylbenzene	105	12.671	12.671	(0.946)	1050325	57.9268	57.93
106 1,2,4-Trimethylbenzene	105	13.045	13.046	(0.974)	995715	59.3366	59.34
107 sec-Butylbenzene	105	13.252	13.252	(0.989)	1312569	52.6929	52.69
105 tert-Butylbenzene	119	13.016	13.016	(0.971)	916513	57.1963	57.20
108 1,3-Dichlorobenzene	146	13.341	13.341	(0.996)	525148	53.3065	53.31
* 110 1,4-Dichlorobenzene-d4	152	13.400	13.400	(1.000)	238135	30.0000	(Q)
111 1,4-Dichlorobenzene	146	13.430	13.430	(1.002)	509429	54.4465	54.45
113 n-Butylbenzene	91	13.784	13.784	(1.029)	814423	46.2261	46.23
112 1,2-Dichlorobenzene	146	13.745	13.745	(1.026)	464006	51.4941	51.49
117 1,2-Dibromo-3-chloropropane	157	14.385	14.385	(1.074)	58226	65.6999	65.70
118 1,3,5-Trichlorobenzene	180	14.917	14.917	(1.113)	216506	39.9232	39.92
98 Bromobenzene	156	12.356	12.356	(0.922)	345977	57.1003	57.10
100 2-Chlorotoluene	91	12.582	12.583	(0.939)	1098327	55.3806	55.38
101 4-Chlorotoluene	91	12.642	12.642	(0.943)	1178841	56.0332	56.03
120 1,2,4-Trichlorobenzene	180	15.469	15.469	(1.154)	157065	34.2587	34.26
121 Naphthalene	128	15.616	15.617	(1.165)	307395	42.9228	42.92
109 p-Isopropyltoluene	119	13.390	13.390	(0.999)	820859	50.4369	50.44
122 Hexachlorobutadiene	225	15.754	15.754	(1.176)	91508	25.6915	25.69(R)
123 1,2,3-Trichlorobenzene	180	15.912	15.902	(1.187)	117392	28.1770	28.18(R)

Data File: \\ELABNSH05\TARGET\chem\voa5.i\092711V5.b\0919102S.D
Report Date: 28-Sep-2011 07:22

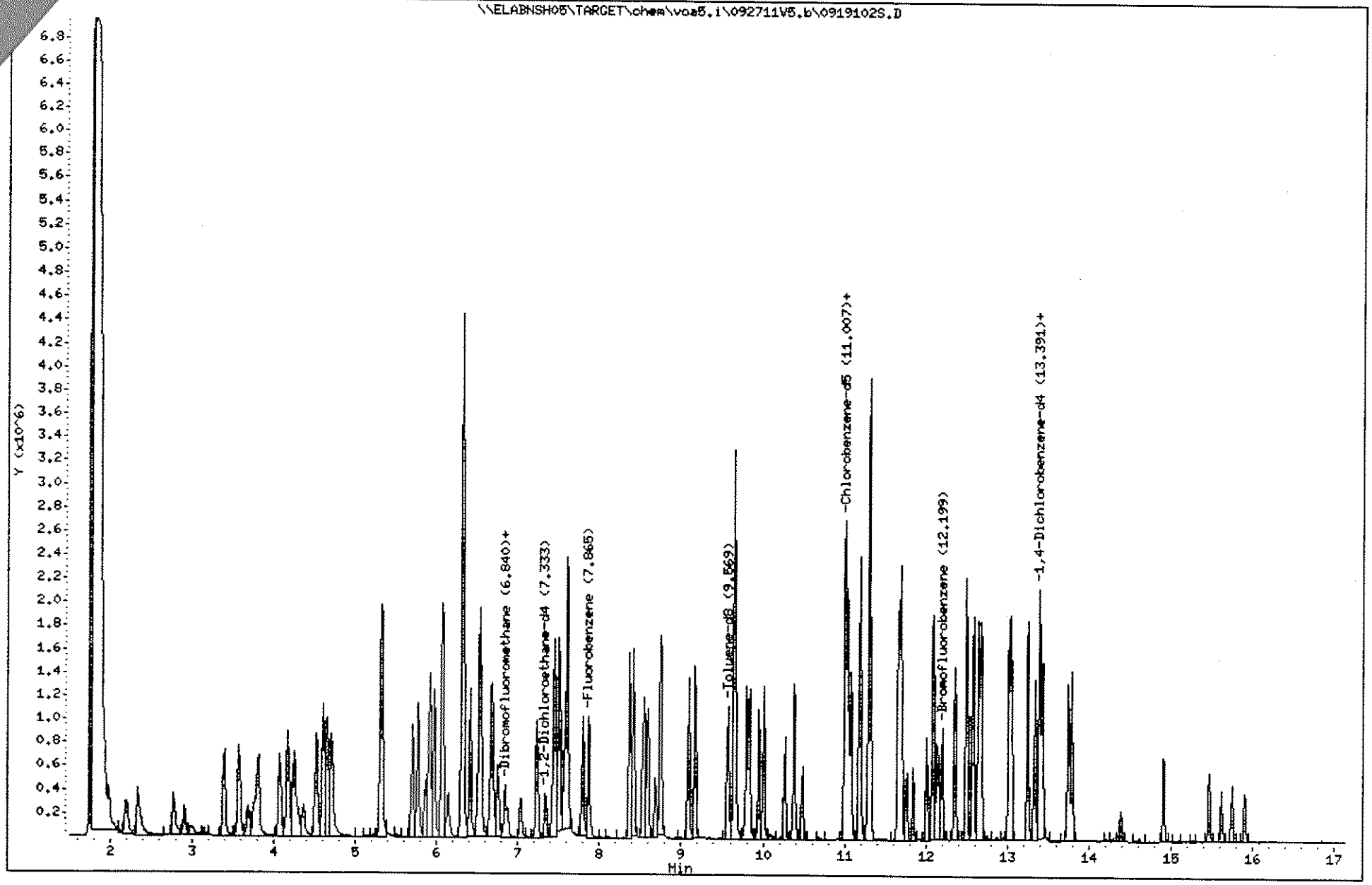
QC Flag Legend

Q - Qualifier signal failed the ratio test.
R - Spike/Surrogate failed recovery limits.

LABNSH05\TARGET\chem\voa5.i\092711V5.b\0919102S.D
P-2011 18:24
1I27005-MSD1
Info: 1I27005-MSD1;;;;;
umn phase: RTX-VRX

Instrument: voa5.i

Operator: ADH
Column diameter: 0.25



Comment: 8260B/6200B/624
Operator: ADM
Data Path: C:\HPCHEM\1\DATA\092811V5\
Pre-Seq Cmd:
Post-Seq Cmd:

Method Sections To Run
(X) Full Method
( ) Reprocessing Only

On A Barcode Mismatch
(X) Inject Anyway
( ) Don't Inject

9/28/11
7785

Line	Type	Vial	DataFile	Method	Sample Name
1	Blank	48	PREBLK1	VS5SUR	BLANK;;;;;
2	Blank	49	PREBLK2	VS5SUR	BLANK;;;;;
3	Blank	50	PREBLK3	VS5SUR	BLANK;;;;;
4	Sample	51	0928TU1	VS5SUR	SEQ-TUN1;;;;;9.44, 9/28
5	Sample	1	0928CCV1	VS5SUR	SEQ-CCV1;;;;;
6	Sample	2	0928LCS1	VS5SUR	-BS1;;;;;
7	Sample	3	0928RL1	VS5SUR	SEQ-LCV1;;;;;
8	Blank	4	BLANK	VS5SUR	BLANK;;;;;
9	Sample	5	0928BLK1	VS5SUR	-BLK1;;;;;
10	Sample	6	0928BLK2	VS5SUR	-BLK2;50;;;;
11	Sample	7	0928BLK3	VS5SUR	-BLK3;;;;; PREP.BLK-9/23
12	Sample	8	0913301	VS5SUR	1109133-01;;;;;
13	Sample	9	0916601	VS5SUR	1109166-01;;;;;
14	Sample	10	0919104R	VS5SUR	1109191-04RE1;;;;;
15	Sample	11	0919201R	VS5SUR	1109192-01RE1;;;;;
16	Sample	12	0919105R	VS5SUR	1109191-05RE1;;;;;
17	Sample	13	0919205R	VS5SUR	1109192-05RE1;;;;;
18	Sample	14	0919213R	VS5SUR	1109192-13RE1;;;;;
19	Sample	15	0919601	VS5SUR	1109196-01;;;;;
20	Sample	16	0919701	VS5SUR	1109197-01;;;;;
21	Sample	17	0920001	VS5SUR	1109200-01;;;;;
22	Sample	18	0920002	VS5SUR	1109200-02;;;;;
23	Sample	19	0920003	VS5SUR	1109200-03;;;;;
24	Sample	20	0920004	VS5SUR	1109200-04;;;;;
25	Sample	21	0919206R	VS5SUR	1109192-06RE1;;;;;
26	Sample	22	0919211R	VS5SUR	1109192-11RE1;;;;;
27	Sample	23	0919215R	VS5SUR	1109192-15RE1;;;;;
28	Blank	24	BLANK1	VS5SUR	BLANK;;;;;
29	Sample	25	0928LCD1	VS5SUR	-BSD1;;;;;
30	Sample	26	0928RL2	VS5SUR	SEQ-LCV2;;;;;

DX 56, 9/28

Last Modified: Wed Sep 28 13:10:30 2011

Data File: \\ELABNSH05\TARGET\chem\voa5.i\092811V5.b\0928TU1.D

Date : 28-SEP-2011 09:44

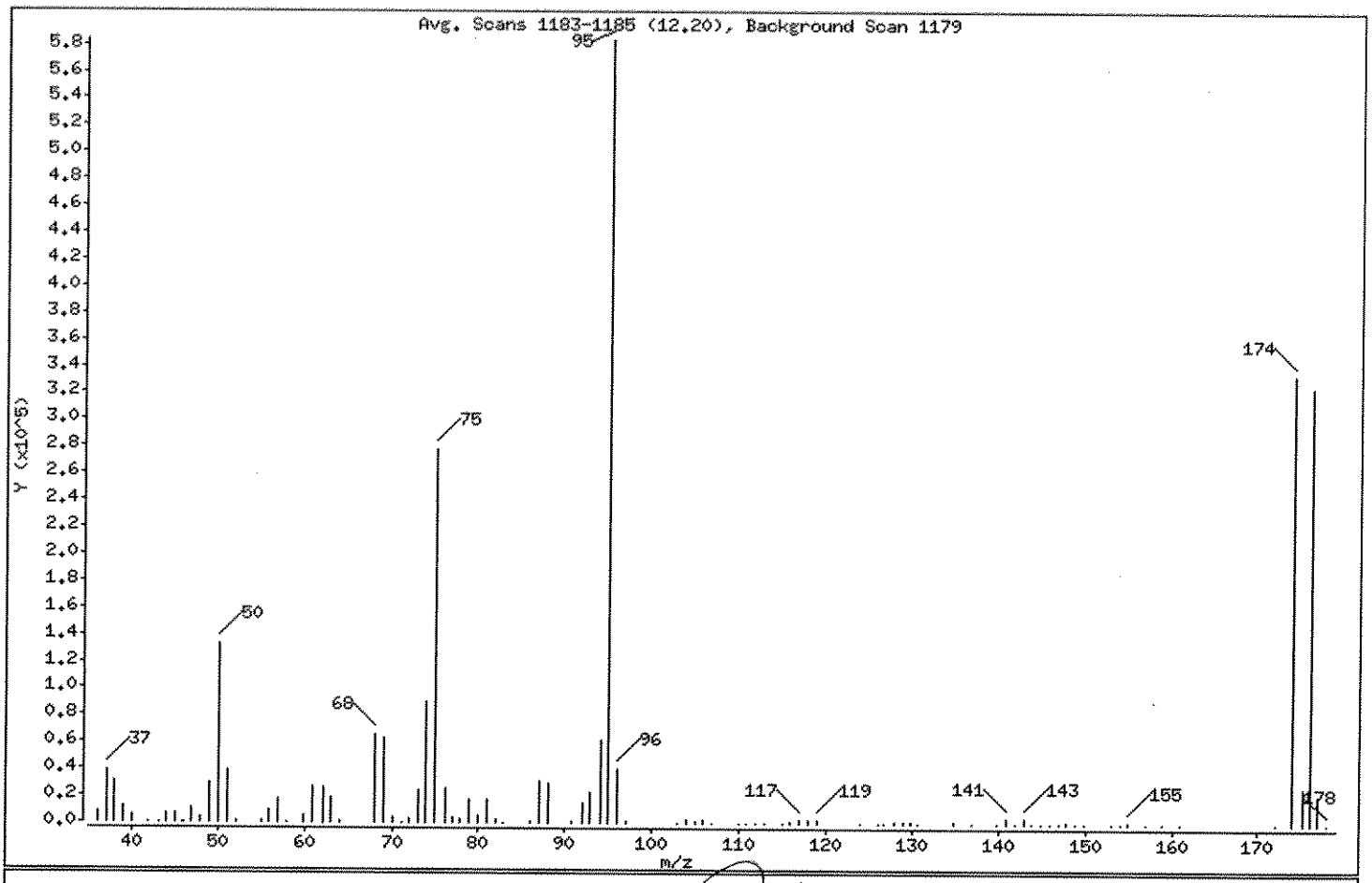
Client ID: SEQ-TUN1 Instrument: voa5.i

Sample Info: SEQ-TUN1;;;;;

Operator: ADM

Column phase: RTX-VRX Column diameter: 0.25

1 bfb



m/e	ION ABUNDANCE CRITERIA	% RELATIVE ABUNDANCE
95	Base Peak, 100% relative abundance	100.00
50	15.00 - 40.00% of mass 95	22.69
75	30.00 - 60.00% of mass 95	47.60
96	5.00 - 9.00% of mass 95	6.99
173	Less than 2.00% of mass 174	0.00 (0.00)
174	Greater than 50.00% of mass 95	57.26
175	5.00 - 9.00% of mass 174	4.65 (8.13)
176	95.00 - 101.00% of mass 174	55.64 (97.18)
177	5.00 - 9.00% of mass 176	3.79 (6.81)

9/28/11

Data File: \\ELABNSH05\TARGET\chem\voa5.i\092811V5.b\0928TU1.D

Date : 28-SEP-2011 09:44

Client ID: SEQ-TUN1 Instrument: voa5.i

Sample Info: SEQ-TUN1;;;;;

Operator: ADM

Column phase: RTX-VRX Column diameter: 0.25

Data File: 0928TU1.D

Spectrum: Avg. Scans 1183-1185 (12.20), Background Scan 1179

Location of Maximum: 95.00

Number of points: 98

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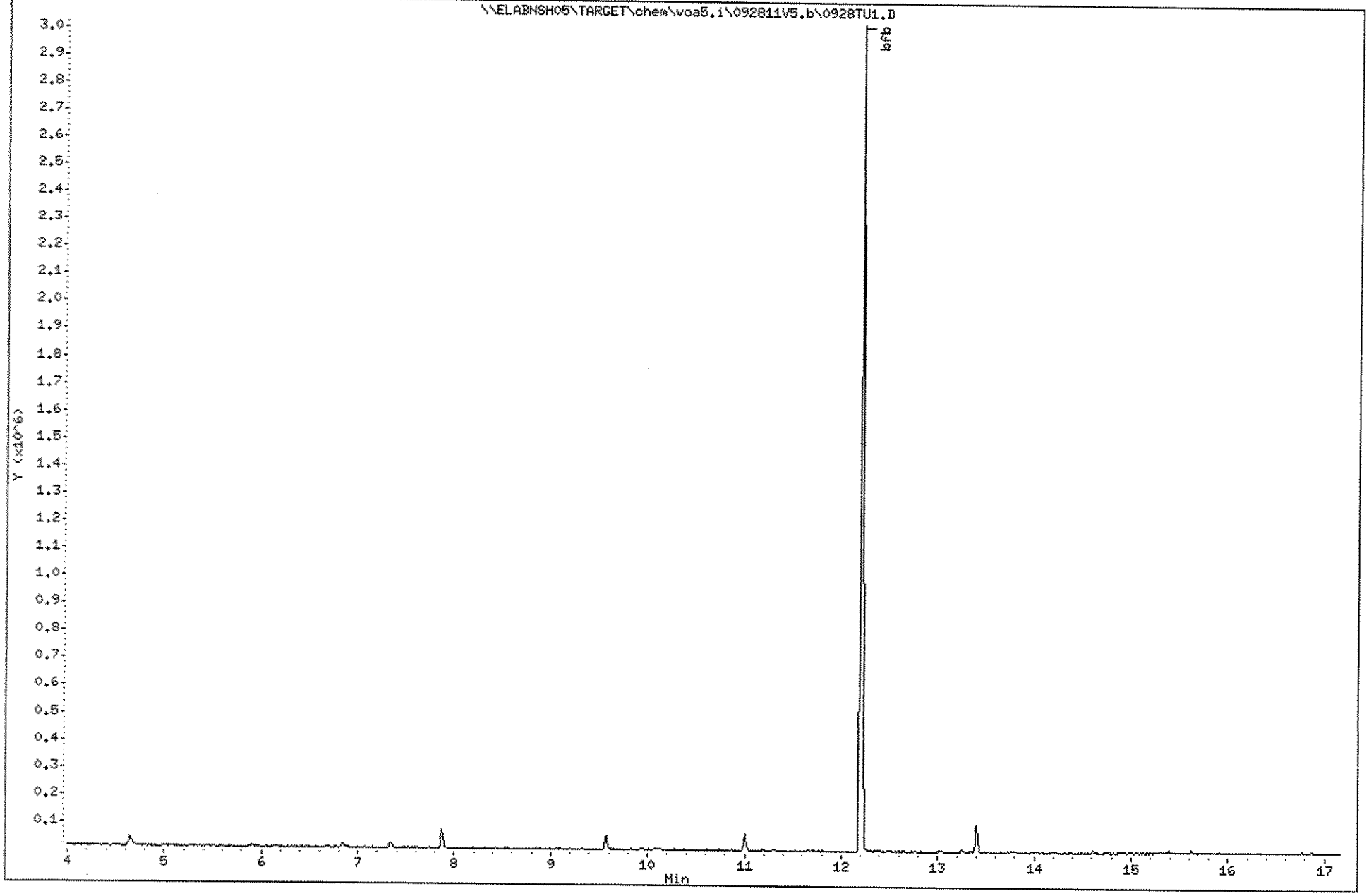
36.00	8301	64.00	1949	96.00	40808	139.85	268
37.00	38360	68.00	66088	97.00	1326	140.95	3944
38.00	31304	69.00	63160	102.80	185	141.95	610
38.95	12379	70.00	4691	103.95	2101	142.95	3547
39.95	5945	71.05	224	104.95	757	143.90	228
41.85	178	71.95	3058	105.85	2091	144.90	378
43.05	501	72.95	23496	106.85	559	146.00	528
44.05	7209	73.95	90280	109.95	430	147.00	243
45.05	6444	74.95	277760	110.85	338	147.80	815
45.85	407	76.05	25744	111.80	327	148.90	253
46.15	429	76.95	4096	112.90	349	149.90	413
47.00	10684	77.85	2422	114.90	608	152.95	425
48.00	4011	78.90	16800	115.90	1813	154.15	192
49.00	29144	79.90	4712	116.90	2767	154.95	984
50.00	132416	80.90	17512	117.90	2018	157.05	663
51.00	38504	81.90	2707	118.90	2034	158.95	487
52.10	1408	82.90	253	124.05	295	160.90	397
55.05	1837	85.90	704	126.05	225	171.95	459
55.95	9264	86.95	30936	126.75	213	173.95	334080
56.95	17120	87.95	29048	127.90	1328	175.05	27160
57.95	611	90.85	1477	128.90	766	175.90	324672
59.95	5650	92.05	14680	129.90	1520	176.90	22104
60.95	26520	92.95	22360	130.70	445	177.90	565
62.05	26952	94.05	61328	134.90	697		
63.00	19184	95.00	583488	136.95	616		

Data File: \\ELABNSH05\TARGET\chem\voa5.i\092811V5.b\0928TU1.D
Date : 28-SEP-2011 09:44
Client ID: SEQ-TUN1
Sample Info: SEQ-TUN1;;;;;

Instrument: voa5.i

Operator: ADM
Column diameter: 0.25

Column phase: RTX-VRX



Data File: \\ELABNSH05\TARGET\chem\voa5.i\092811V5.b\0928CCV1.D
Report Date: 28-Sep-2011 13:42

Laboratory Name

Data file : \\ELABNSH05\TARGET\chem\voa5.i\092811V5.b\0928CCV1.D
Lab Smp Id: SEQ-CCV1 Client Smp ID: SEQ-CCV1
Inj Date : 28-SEP-2011 10:10
Operator : ADM Inst ID: voa5.i
Smp Info : SEQ-CCV1;;;;;
Misc Info : ;2;;;;8260.sub;
Comment :
Method : \\ELABNSH05\TARGET\chem\voa5.i\092811V5.b\VS5SUR.m
Meth Date : 28-Sep-2011 13:42 amonteiro Quant Type: ISTD
Cal Date : 22-SEP-2011 14:24 Cal File: 0922CAL1.D
Als bottle: 1 Continuing Calibration Sample
Dil Factor: 1.00000
Integrator: HP RTE Compound Sublist: 8260.sub
Target Version: 4.04
Processing Host: TARGET02_VM

Concentration Formula: Amt * DF * 5*Uf/(Ws*(Solids/100))

Name	Value	Description
DF	1.000	Dilution Factor
Uf	1.000	unit correction factor
Ws	5.000	Weight of sample extracted (g)
Solids	100.000	Percent Solids

MG 9/28/11

KPW 9-29-11

Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	AMOUNTS CAL-AMT (ug/Kg)	AMOUNTS ON-COL (ug/Kg)
* 55 Fluorobenzene	96	7.865	7.865	(1.000)	673830	30.0000	
1 Dichlorodifluoromethane	85	1.984	1.984	(0.252)	657992	100.000	117.9
2 Chloromethane	50	2.191	2.191	(0.279)	740067	100.000	106.0
3 Vinyl chloride	62	2.329	2.329	(0.296)	485563	100.000	129.6
4 Bromomethane	94	2.772	2.772	(0.353)	461322	100.000	172.2
5 Chloroethane	64	2.900	2.900	(0.369)	365979	100.000	96.77
7 Trichlorofluoromethane	101	3.393	3.393	(0.431)	889551	100.000	96.19
11 Ethyl Ether	59	3.806	3.806	(0.484)	563262	100.000	102.8
10 Acetonitrile	41	3.757	3.757	(0.478)	956631	1000.00	987.6
13 Trichlorotrifluoroethane	101	4.240	4.240	(0.539)	626550	100.000	94.12
8 Acrolein	56	3.570	3.570	(0.454)	584827	500.000	721.5
19 Allyl chloride	76	4.604	4.604	(0.585)	347895	100.000	99.33
12 1,1-Dichloroethene	96	4.161	4.161	(0.529)	613826	100.000	101.0
9 Acetone	43	3.678	3.678	(0.468)	573686	200.000	275.8
14 t-Butyl alcohol	59	4.299	4.299	(0.547)	488760	500.000	886.8

Data File: \\ELABNSH05\TARGET\chem\voa5.i\092811V5.b\0928CCV1.D
Report Date: 28-Sep-2011 13:42

	Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	AMOUNTS CAL-AMT (ug/Kg)	AMOUNTS ON-COL (ug/Kg)
	16 Iodomethane	142	4.358	4.358	(0.554)	508343	100.000	107.0
	22 Carbon disulfide	76	4.703	4.703	(0.598)	2272103	100.000	94.88
	20 Methylene chloride	84	4.644	4.644	(0.590)	763452	100.000	97.39
	18 Acrylonitrile	53	4.516	4.516	(0.574)	1122905	500.000	553.4
	24 trans-1,2-Dichloroethene	96	5.323	5.323	(0.677)	630157	100.000	97.51
	23 MTBE	73	5.313	5.313	(0.676)	1137232	100.000	76.41
	26 1,1-Dichloroethane	63	5.698	5.698	(0.724)	1273279	100.000	91.88
	28 Propionitrile	54	5.855	5.855	(0.745)	786045	1000.00	1074
	27 Vinyl acetate	43	5.766	5.766	(0.733)	2842302	200.000	256.9
	30 Chloroprene	53	5.963	5.963	(0.758)	993586	100.000	89.77
	33 Di-isopropyl ether	45	6.062	6.062	(0.771)	2777392	100.000	92.74
	37 cis-1,2-Dichloroethene	96	6.407	6.407	(0.815)	677705	100.000	99.28
M	6 1,2-Dichloroethene(total)	96				1307863	200.000	196.8
	34 2-Butanone	43	6.141	6.141	(0.781)	835804	200.000	228.3
	36 Methacrylonitrile	41	6.318	6.318	(0.803)	3620424	1000.00	966.2
	29 Hexane	57	5.904	5.904	(0.751)	1174784	100.000	99.61
	42 Bromochloromethane	128	6.692	6.692	(0.851)	292982	100.000	105.6
	43 Isobutyl alcohol	42	6.752	6.752	(0.858)	349937	2000.00	2109
	45 Tetrahydrofuran	42	6.870	6.870	(0.874)	201517	100.000	103.4
	46 tert-Amyl alcohol	59	7.027	7.027	(0.894)	130115	500.000	297.2
	41 Chloroform	83	6.663	6.663	(0.847)	1144910	100.000	97.22
	17 Methyl acetate	43	4.506	4.506	(0.573)	480381	100.000	93.71
$	44 Dibromofluoromethane	111	6.840	6.840	(0.870)	187972	30.0000	32.57
	47 1,1,1-Trichloroethane	97	7.224	7.224	(0.919)	813353	100.000	96.50
	40 ETBE	59	6.535	6.535	(0.831)	534850	100.000	25.91
	51 Cyclohexane	56	7.500	7.500	(0.954)	1147995	100.000	88.01
	52 Carbon tetrachloride	117	7.569	7.569	(0.962)	633650	100.000	98.82
$	48 1,2-Dichloroethane-d4	102	7.333	7.333	(0.932)	37905	30.0000	31.97
	53 Benzene	78	7.599	7.599	(0.966)	2486855	100.000	95.88
	54 tert-Amyl Methyl Ether	73	7.796	7.796	(0.991)	113581	100.000	6.845
	49 1,2-Dichloroethane	62	7.431	7.431	(0.945)	816540	100.000	99.64
	39 2,2-Dichloropropane	77	6.515	6.515	(0.828)	841071	100.000	95.70
	50 1,1-Dichloropropene	75	7.451	7.451	(0.947)	891178	100.000	92.84
	56 Trichloroethene	95	8.367	8.367	(1.064)	677342	100.000	95.62
	60 1,4-Dioxane	88	8.564	8.564	(1.089)	110403	2000.00	2175
	57 1,2-Dichloropropane	63	8.416	8.416	(1.070)	750543	100.000	94.67
	58 Dibromomethane	93	8.525	8.525	(1.084)	424726	100.000	105.8
	59 Methyl methacrylate	41	7.500	7.500	(0.954)	681267	100.000	82.36
	61 Bromodichloromethane	83	8.594	8.594	(1.093)	880385	100.000	103.3
	62 tert-Amyl Ethyl Ether	59	8.692	8.692	(1.105)	2905	100.000	0.1803(a)
	66 2-Chloroethyl vinyl ether	63	9.027	9.027	(1.148)	3293	200.000	186.0(T)
	70 cis-1,3-Dichloropropene	75	9.165	9.165	(1.165)	1016738	100.000	104.2
	69 4-Methyl-2-pentanone	43	9.086	9.086	(1.155)	1300454	200.000	209.4
$	71 Toluene-d8	98	9.569	9.569	(0.870)	580572	30.0000	31.74
	74 Toluene	92	9.647	9.647	(0.877)	1327021	100.000	100.5
	73 trans-1,3-Dichloropropene	75	9.638	9.638	(0.876)	865840	100.000	108.7
	76 Ethyl methacrylate	69	9.835	9.835	(0.894)	776820	100.000	115.5

Data File: \\ELABNSH05\TARGET\chem\voa5.i\092811V5.b\0928CCV1.D
Report Date: 28-Sep-2011 13:42

Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	AMOUNTS CAL-AMT (ug/Kg)	AMOUNTS ON-COL (ug/Kg)
75 1,1,2-Trichloroethane	83	9.795	9.795	(0.891)	467121	100.000	110.8
80 Tetrachloroethene	166	10.376	10.376	(0.944)	503939	100.000	106.2
77 2-Hexanone	43	9.943	9.943	(0.904)	968663	200.000	228.8
79 Dibromochloromethane	129	10.268	10.268	(0.934)	528407	100.000	111.2
81 1,2-Dibromoethane	107	10.485	10.485	(0.953)	520801	100.000	115.4
63 Methyl cyclohexane	83	8.741	8.741	(1.111)	1015839	100.000	95.12
* 82 Chlorobenzene-d5	82	10.997	10.997	(1.000)	278317	30.0000	
84 Chlorobenzene	112	11.036	11.036	(1.004)	1357055	100.000	105.2
85 1,1,1,2-Tetrachloroethane	131	11.076	11.076	(1.007)	446280	100.000	107.6
83 1-Chlorohexane	91	11.007	11.007	(1.001)	800635	100.000	98.47
86 Ethylbenzene	91	11.184	11.184	(1.017)	2480344	100.000	102.6
87 m,p-Xylene	91	11.302	11.302	(1.028)	3478158	200.000	208.0
M 119 Xylene(total)	91				5331344	300.000	315.2
89 o-Xylene	91	11.686	11.686	(1.063)	1853185	100.000	107.2
88 Styrene	104	11.657	11.657	(1.060)	1502718	100.000	113.3
90 Bromoform	173	11.765	11.765	(1.070)	344525	100.000	124.3
91 cis-1,4-Dichloro-2-butene	53	11.844	11.844	(0.884)	157349	100.000	101.7
94 Isopropylbenzene	105	12.090	12.090	(1.099)	2025426	100.000	107.8
$ 97 Bromofluorobenzene	95	12.199	12.199	(1.109)	276736	30.0000	35.86
93 1,1,2,2-Tetrachloroethane	83	12.012	12.012	(0.896)	644247	100.000	105.4
78 1,3-Dichloropropane	76	10.012	10.012	(0.910)	905876	100.000	110.2
95 1,2,3-Trichloropropane	110	12.130	12.130	(1.103)	147964	100.000	119.2
96 trans-1,4-Dichloro-2-butene	53	12.159	12.159	(0.907)	162269	100.000	98.79
99 n-Propylbenzene	91	12.494	12.494	(0.932)	2697744	100.000	94.76
102 1,3,5-Trimethylbenzene	105	12.671	12.671	(0.946)	1613358	100.000	99.50
106 1,2,4-Trimethylbenzene	105	13.046	13.046	(0.974)	1526435	100.000	101.7
107 sec-Butylbenzene	105	13.253	13.253	(0.989)	2267697	100.000	101.8
105 tert-Butylbenzene	119	13.016	13.016	(0.971)	1468615	100.000	102.5
108 1,3-Dichlorobenzene	146	13.341	13.341	(0.996)	864714	100.000	98.16
* 110 1,4-Dichlorobenzene-d4	152	13.400	13.400	(1.000)	212942	30.0000	
111 1,4-Dichlorobenzene	146	13.430	13.430	(1.002)	849808	100.000	101.6
113 n-Butylbenzene	91	13.785	13.785	(1.029)	1665651	100.000	105.7
112 1,2-Dichlorobenzene	146	13.745	13.745	(1.026)	820277	100.000	101.8
117 1,2-Dibromo-3-chloropropane	157	14.385	14.385	(1.074)	88885	100.000	112.2
118 1,3,5-Trichlorobenzene	180	14.917	14.917	(1.113)	552136	100.000	113.8
98 Bromobenzene	156	12.356	12.356	(0.922)	522753	100.000	96.48
100 2-Chlorotoluene	91	12.583	12.583	(0.939)	1623441	100.000	91.54
101 4-Chlorotoluene	91	12.642	12.642	(0.943)	1881056	100.000	99.99
120 1,2,4-Trichlorobenzene	180	15.469	15.469	(1.154)	465468	100.000	113.5
121 Naphthalene	128	15.617	15.617	(1.165)	668691	100.000	105.9
109 p-Isopropyltoluene	119	13.391	13.391	(0.999)	1561697	100.000	107.3
122 Hexachlorobutadiene	225	15.755	15.755	(1.176)	368663	100.000	115.7
123 1,2,3-Trichlorobenzene	180	15.902	15.902	(1.187)	413895	100.000	111.1

Data File: \\ELABNSH05\TARGET\chem\voa5.i\092811V5.b\0928CCV1.D
Report Date: 28-Sep-2011 13:42

QC Flag Legend

T - Target compound detected outside RT window.
a - Target compound detected but, quantitated amount
Below Limit Of Quantitation(BLOQ).

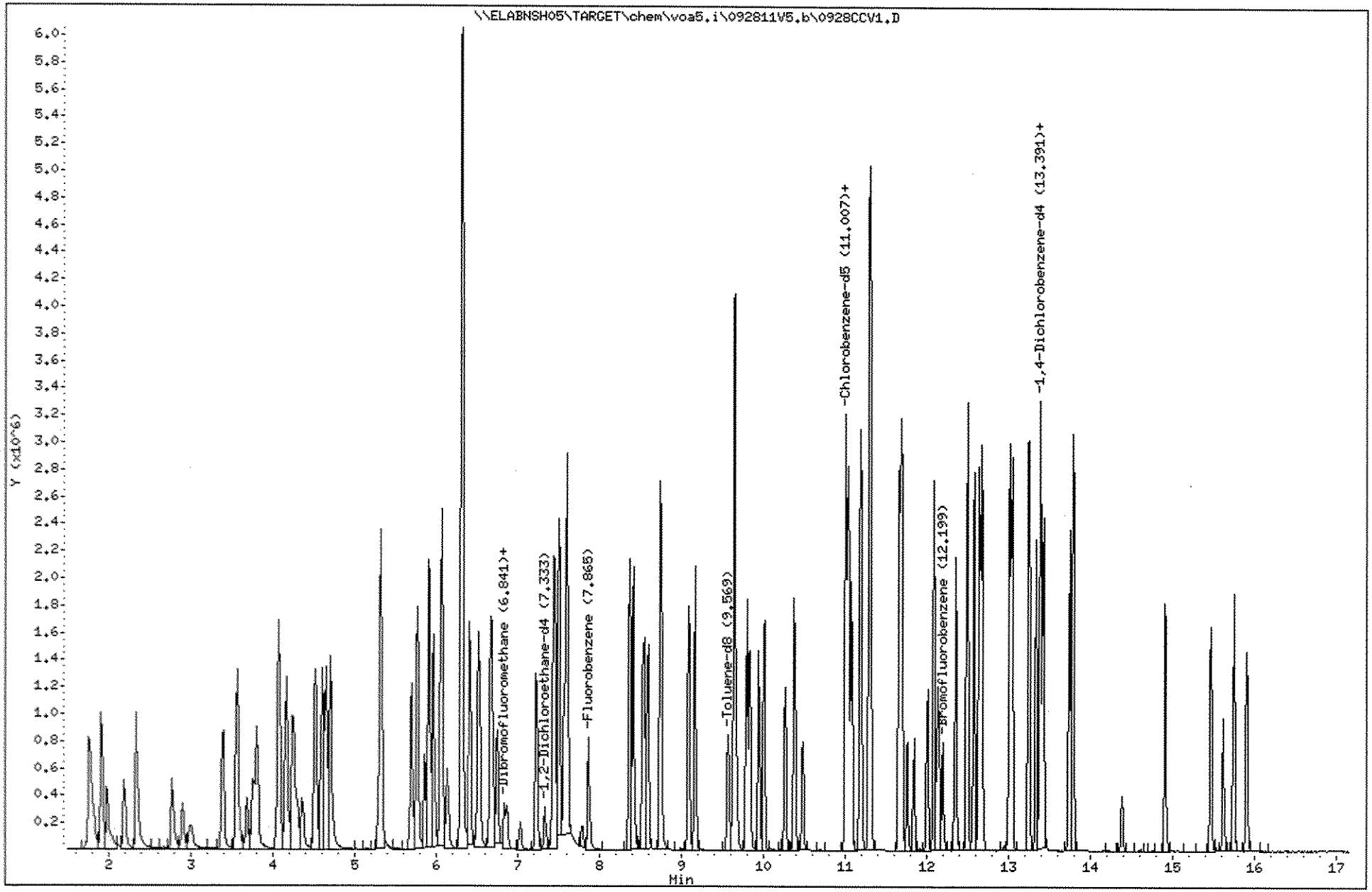
Data File: \\ELABNSH05\TARGET\chem\voa5.i\092811V5.b\0928CCV1.D
Date : 28-SEP-2011 10:10
Client ID: SEQ-CCV1
Sample Info: SEQ-CCV1;;;;;

Instrument: voa5.i

Operator: ADM

Column phase: RTX-VRX

Column diameter: 0.25



Data File: \\ELABNSH05\TARGET\chem\voa5.i\092811V5.b\0928LCS1.D
Report Date: 28-Sep-2011 13:51

Laboratory Name

Data file : \\ELABNSH05\TARGET\chem\voa5.i\092811V5.b\0928LCS1.D
Lab Smp Id: 1I28025-BS1 Client Smp ID: 1I28025-BS1
Inj Date : 28-SEP-2011 10:37
Operator : ADM Inst ID: voa5.i
Smp Info : 1I28025-BS1;;;;;
Misc Info : ;3;LCS;;;8260.sub;
Comment :
Method : \\ELABNSH05\TARGET\chem\voa5.i\092811V5.b\VS5SUR.m
Meth Date : 28-Sep-2011 13:42 amonteiro Quant Type: ISTD
Cal Date : 22-SEP-2011 14:24 Cal File: 0922CAL1.D
Als bottle: 2 QC Sample: LCS
Dil Factor: 1.00000
Integrator: HP RTE Compound Sublist: 8260.sub
Target Version: 4.04
Processing Host: TARGET02_VM

Concentration Formula: Amt * DF * 5*Uf/(Ws*(Solids/100))

Name	Value	Description
DF	1.000	Dilution Factor
Uf	1.000	unit correction factor
Ws	5.000	Weight of sample extracted (g)
Solids	100.000	Percent Solids

MG 9/28/11

9-29-11

Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS ON-COLUMN (ug/Kg)	FINAL (ug/Kg)
* 55 Fluorobenzene	96	7.871	7.865	(1.000)	661097	30.0000	
1 Dichlorodifluoromethane	85	1.981	1.984	(0.252)	311447	56.8931	56.89
2 Chloromethane	50	2.188	2.191	(0.278)	365243	53.3467	53.35
3 Vinyl chloride	62	2.336	2.329	(0.297)	261925	71.2454	71.24(R)
4 Bromomethane	94	2.769	2.772	(0.352)	229902	87.4734	87.47(R)
5 Chloroethane	64	2.897	2.900	(0.368)	192540	51.8890	51.89
7 Trichlorofluoromethane	101	3.390	3.393	(0.431)	450800	49.6839	49.68
11 Ethyl Ether	59	3.803	3.806	(0.483)	279326	51.9483	51.95
10 Acetonitrile	41	3.764	3.757	(0.478)	449435	472.899	472.9
13 Trichlorotrifluoroethane	101	4.247	4.240	(0.540)	286843	43.9206	43.92
8 Acrolein	56	3.577	3.570	(0.454)	320340	402.803	402.8(R)
19 Allyl chloride	76	4.601	4.604	(0.585)	188239	54.7827	54.78
12 1,1-Dichloroethene	96	4.168	4.161	(0.529)	280188	47.0155	47.02
9 Acetone	43	3.685	3.678	(0.468)	420208	205.869	205.9(R)
14 t-Butyl alcohol	59	4.296	4.299	(0.546)	224097	414.446	414.4(R)

Data File: \\ELABNSH05\TARGET\chem\voa5.i\092811V5.b\0928LCS1.D
Report Date: 28-Sep-2011 13:51

	Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS ON-COLUMN (ug/Kg)	FINAL (ug/Kg)
	16 Iodomethane	142	4.365	4.358	(0.555)	252472	57.7656	57.76
	22 Carbon disulfide	76	4.700	4.703	(0.597)	957760	40.7639	40.76
	20 Methylene chloride	84	4.650	4.644	(0.591)	371223	48.2673	48.27
	18 Acrylonitrile	53	4.522	4.516	(0.575)	532484	267.482	267.5
	24 trans-1,2-Dichloroethene	96	5.320	5.323	(0.676)	311382	49.1099	49.11
	23 MTBE	73	5.310	5.313	(0.675)	515013	35.2716	35.27
	26 1,1-Dichloroethane	63	5.695	5.698	(0.723)	638025	46.9294	46.93
	28 Propionitrile	54	5.862	5.855	(0.745)	378443	526.955	527.0
	27 Vinyl acetate	43	5.763	5.766	(0.732)	1336120	123.100	123.1
	30 Chloroprene	53	5.960	5.963	(0.757)	505108	46.5159	46.52
	33 Di-isopropyl ether	45	6.069	6.062	(0.771)	1426821	48.5593	48.56
	37 cis-1,2-Dichloroethene	96	6.414	6.407	(0.815)	343109	51.2304	51.23
M	6 1,2-Dichloroethene(total)	96				654491	100.340	100.3
	34 2-Butanone	43	6.138	6.141	(0.780)	527937	146.995	147.0
	36 Methacrylonitrile	41	6.315	6.318	(0.802)	1827650	497.162	497.2
	29 Hexane	57	5.911	5.904	(0.751)	612249	52.9147	52.91
	42 Bromochloromethane	128	6.689	6.692	(0.850)	139553	51.2549	51.25
	43 Isobutyl alcohol	42	6.749	6.752	(0.857)	159138	977.609	977.6
	45 Tetrahydrofuran	42	6.867	6.870	(0.872)	94626	49.4897	49.49
	46 tert-Amyl alcohol	59	7.034	7.027	(0.894)	53192	123.819	123.8(R)
	41 Chloroform	83	6.670	6.663	(0.847)	559526	48.4274	48.43
	17 Methyl acetate	43	4.503	4.506	(0.572)	229199	45.5705	45.57
$	44 Dibromofluoromethane	111	6.837	6.840	(0.869)	183771	32.4589	32.46
	47 1,1,1-Trichloroethane	97	7.231	7.224	(0.919)	407749	49.3113	49.31
	40 ETBE	59	6.532	6.535	(0.830)	219367	10.8313	10.83(R)
	51 Cyclohexane	56	7.507	7.500	(0.954)	539103	42.1243	42.12
	52 Carbon tetrachloride	117	7.576	7.569	(0.962)	309470	49.1902	49.19
$	48 1,2-Dichloroethane-d4	102	7.340	7.333	(0.932)	35579	30.5857	30.58
	53 Benzene	78	7.605	7.599	(0.966)	1273687	50.0547	50.05
	54 tert-Amyl Methyl Ether	73	7.793	7.796	(0.990)	36547	2.24499	2.245(R)
	49 1,2-Dichloroethane	62	7.428	7.431	(0.944)	391399	48.6835	48.68
	39 2,2-Dichloropropane	77	6.522	6.515	(0.829)	419512	48.6518	48.65
	50 1,1-Dichloropropene	75	7.448	7.451	(0.946)	446714	47.4350	47.44
	56 Trichloroethene	95	8.364	8.367	(1.063)	333186	47.9420	47.94
	60 1,4-Dioxane	88	8.571	8.564	(1.089)	51711	1038.25	1038
	57 1,2-Dichloropropane	63	8.413	8.416	(1.069)	371538	47.7688	47.77
	58 Dibromomethane	93	8.531	8.525	(1.084)	196395	49.8694	49.87
	59 Methyl methacrylate	41	7.507	7.500	(0.954)	321801	39.6547	39.65
	61 Bromodichloromethane	83	8.590	8.594	(1.091)	404259	48.3509	48.35
	62 tert-Amyl Ethyl Ether	59	8.551	8.692	(1.086)	28635	1.81131	1.811(QR)
	66 2-Chloroethyl vinyl ether	63	9.083	9.027	(1.154)	822	47.3322	47.33(Q)
	70 cis-1,3-Dichloropropene	75	9.172	9.165	(1.165)	512973	53.5973	53.60
	69 4-Methyl-2-pentanone	43	9.093	9.086	(1.155)	693996	113.895	113.9
$	71 Toluene-d8	98	9.566	9.569	(0.869)	572984	30.2104	30.21
	74 Toluene	92	9.644	9.647	(0.876)	692509	50.5962	50.60
	73 trans-1,3-Dichloropropene	75	9.644	9.638	(0.876)	385748	46.7068	46.71
	76 Ethyl methacrylate	69	9.832	9.835	(0.893)	391591	56.1229	56.12

Data File: \\ELABNSH05\TARGET\chem\voa5.i\092811V5.b\0928LCS1.D
Report Date: 28-Sep-2011 13:51

Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS ON-COLUMN (ug/Kg)	FINAL (ug/Kg)
75 1,1,2-Trichloroethane	83	9.802	9.795	(0.891)	227391	52.0202	52.02
80 Tetrachloroethene	166	10.383	10.376	(0.944)	250964	50.9855	50.98
77 2-Hexanone	43	9.940	9.943	(0.903)	650072	148.088	148.1(R)
79 Dibromochloromethane	129	10.265	10.268	(0.933)	250649	50.8505	50.85
81 1,2-Dibromoethane	107	10.482	10.485	(0.953)	242695	51.8541	51.85
63 Methyl cyclohexane	83	8.748	8.741	(1.111)	507255	48.4126	48.41
* 82 Chlorobenzene-d5	82	11.004	10.997	(1.000)	288634	30.0000	
84 Chlorobenzene	112	11.043	11.036	(1.004)	686921	51.3566	51.36
85 1,1,1,2-Tetrachloroethane	131	11.083	11.076	(1.007)	218582	50.8113	50.81
83 1-Chlorohexane	91	11.004	11.007	(1.000)	407541	48.3300	48.33
86 Ethylbenzene	91	11.191	11.184	(1.017)	1272201	50.7512	50.75
87 m,p-Xylene	91	11.299	11.302	(1.027)	1829714	105.532	105.5
M 119 Xylene(total)	91				2780448	158.548	158.5
89 o-Xylene	91	11.693	11.686	(1.063)	950734	53.0159	53.02
88 Styrene	104	11.664	11.657	(1.060)	757796	55.1100	55.11
90 Bromoform	173	11.762	11.765	(1.069)	159994	55.6653	55.66
91 cis-1,4-Dichloro-2-butene	53	11.841	11.844	(0.884)	80209	52.2115	52.21
94 Isopropylbenzene	105	12.087	12.090	(1.098)	990111	50.8009	50.80
$ 97 Bromofluorobenzene	95	12.196	12.199	(1.108)	263903	32.9703	32.97
93 1,1,2,2-Tetrachloroethane	83	12.009	12.012	(0.896)	297903	49.0593	49.06
78 1,3-Dichloropropane	76	10.009	10.012	(0.910)	446753	52.4054	52.40
95 1,2,3-Trichloropropane	110	12.137	12.130	(1.103)	70034	54.4063	54.41(Q)
96 trans-1,4-Dichloro-2-butene	53	12.156	12.159	(0.907)	78444	48.0929	48.09
99 n-Propylbenzene	91	12.501	12.494	(0.933)	1378485	48.7592	48.76
102 1,3,5-Trimethylbenzene	105	12.678	12.671	(0.946)	822684	51.0944	51.09
106 1,2,4-Trimethylbenzene	105	13.043	13.046	(0.974)	768656	51.5827	51.58
107 sec-Butylbenzene	105	13.250	13.253	(0.989)	1146098	51.8127	51.81
105 tert-Butylbenzene	119	13.013	13.016	(0.971)	740657	52.0512	52.05
108 1,3-Dichlorobenzene	146	13.338	13.341	(0.996)	442923	50.6304	50.63
* 110 1,4-Dichlorobenzene-d4	152	13.397	13.400	(1.000)	211465	30.0000	
111 1,4-Dichlorobenzene	146	13.427	13.430	(1.002)	437701	52.6804	52.68
113 n-Butylbenzene	91	13.791	13.785	(1.029)	825737	52.7793	52.78
112 1,2-Dichlorobenzene	146	13.752	13.745	(1.026)	407635	50.9437	50.94
117 1,2-Dibromo-3-chloropropane	157	14.392	14.385	(1.074)	40739	51.7658	51.76
118 1,3,5-Trichlorobenzene	180	14.914	14.917	(1.113)	268602	55.7763	55.78
98 Bromobenzene	156	12.363	12.356	(0.923)	259047	48.1454	48.14
100 2-Chlorotoluene	91	12.580	12.583	(0.939)	843838	47.9148	47.91
101 4-Chlorotoluene	91	12.639	12.642	(0.943)	894405	47.8750	47.88
120 1,2,4-Trichlorobenzene	180	15.466	15.469	(1.154)	228910	56.2265	56.23
121 Naphthalene	128	15.624	15.617	(1.166)	364148	57.6103	57.61
109 p-Isopropyltoluene	119	13.388	13.391	(0.999)	737683	51.0427	51.04
122 Hexachlorobutadiene	225	15.752	15.755	(1.176)	175882	55.6079	55.61
123 1,2,3-Trichlorobenzene	180	15.909	15.902	(1.187)	207227	56.0127	56.01

Data File: \\ELABNSH05\TARGET\chem\voa5.i\092811V5.b\0928LCS1.D
Report Date: 28-Sep-2011 13:51

QC Flag Legend

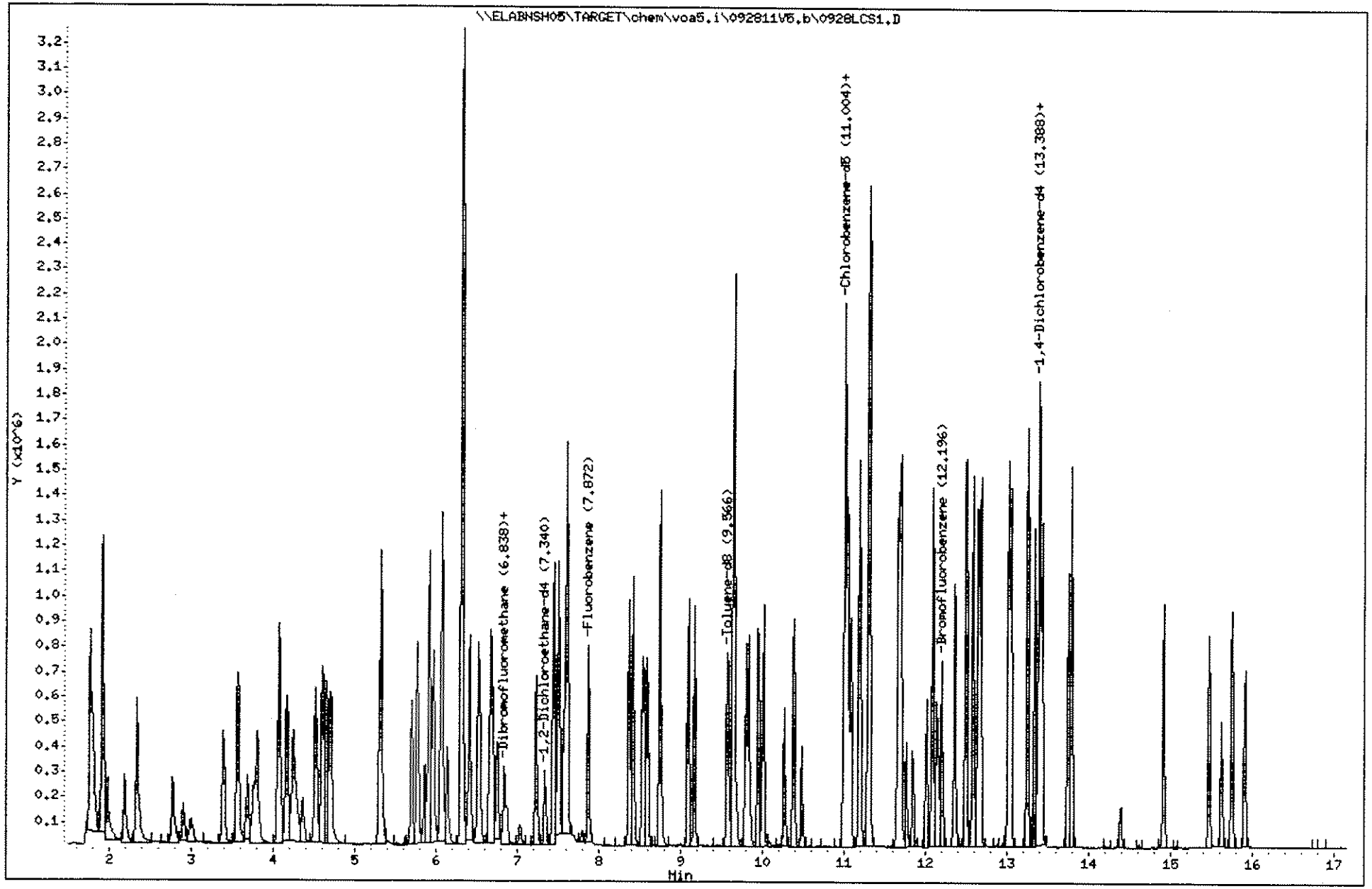
Q - Qualifier signal failed the ratio test.
R - Spike/Surrogate failed recovery limits.

Data File: \\ELABNSH05\TARGET\chem\voa5.i\092811V5.b\0928LCS1.D
Date : 28-SEP-2011 10:37
Client ID: 1I28025-BS1
Sample Info: 1I28025-BS1;;;;;

Column phase: RTX-VRX

Instrument: voa5.i

Operator: ADH
Column diameter: 0.25



Data File: \\ELABNSH05\TARGET\chem\voa5.i\092811V5.b\0928BLK1.D
Report Date: 29-Sep-2011 08:33

Laboratory Name

Data file : \\ELABNSH05\TARGET\chem\voa5.i\092811V5.b\0928BLK1.D
Lab Smp Id: 1I28025-BLK1 Client Smp ID: 1I28025-BLK1
Inj Date : 28-SEP-2011 12:41 MS Autotune Date: 28-JUL-1998 05:19
Operator : ADM Inst ID: voa5.i
Smp Info : 1I28025-BLK1;;;;;
Misc Info : ;3;BLANK;;;8260.sub;
Comment :
Method : \\ELABNSH05\TARGET\chem\voa5.i\092811V5.b\VS5SUR.m
Meth Date : 29-Sep-2011 05:58 amonteiro Quant Type: ISTD
Cal Date : 22-SEP-2011 14:24 Cal File: 0922CAL1.D
Als bottle: 5 QC Sample: BLANK
Dil Factor: 1.00000
Integrator: HP RTE Compound Sublist: 8260.sub
Target Version: 4.04
Processing Host: TARGET02_VM

Concentration Formula: Amt * DF * 5*Uf/(Ws*(Solids/100))

Name	Value	Description
DF	1.000	Dilution Factor
Uf	1.000	unit correction factor
Ws	5.000	Weight of sample extracted (g)
Solids	100.000	Percent Solids

MG 9/29/11

9-29-11

Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS ON-COLUMN (ug/Kg)	FINAL (ug/Kg)
* 55 Fluorobenzene	96	7.878	7.865	(1.000)	671787	30.0000	
9 Acetone	43	3.692	3.678	(0.469)	6693	3.22687	3.227(a)
20 Methylene chloride	84	4.657	4.644	(0.591)	30531	3.90655	3.906
29 Hexane	57	5.918	5.904	(0.751)	8686	0.73876	0.7388(a)
$ 44 Dibromofluoromethane	111	6.844	6.840	(0.869)	185359	32.2184	32.22
$ 48 1,2-Dichloroethane-d4	102	7.346	7.333	(0.932)	36666	31.0185	31.02
$ 71 Toluene-d8	98	9.572	9.569	(0.869)	572917	30.1242	30.12
* 82 Chlorobenzene-d5	82	11.010	10.997	(1.000)	289426	30.0000	
$ 97 Bromofluorobenzene	95	12.202	12.199	(1.108)	250745	31.2407	31.24
* 110 1,4-Dichlorobenzene-d4	152	13.404	13.400	(1.000)	196414	30.0000	(Q)
120 1,2,4-Trichlorobenzene	180	15.472	15.469	(1.154)	1712	0.45274	0.4527(a)
121 Naphthalene	128	15.630	15.617	(1.166)	14652	1.49331	1.493(M)
123 1,2,3-Trichlorobenzene	180	15.916	15.902	(1.187)	1475	0.42924	0.4292(a)

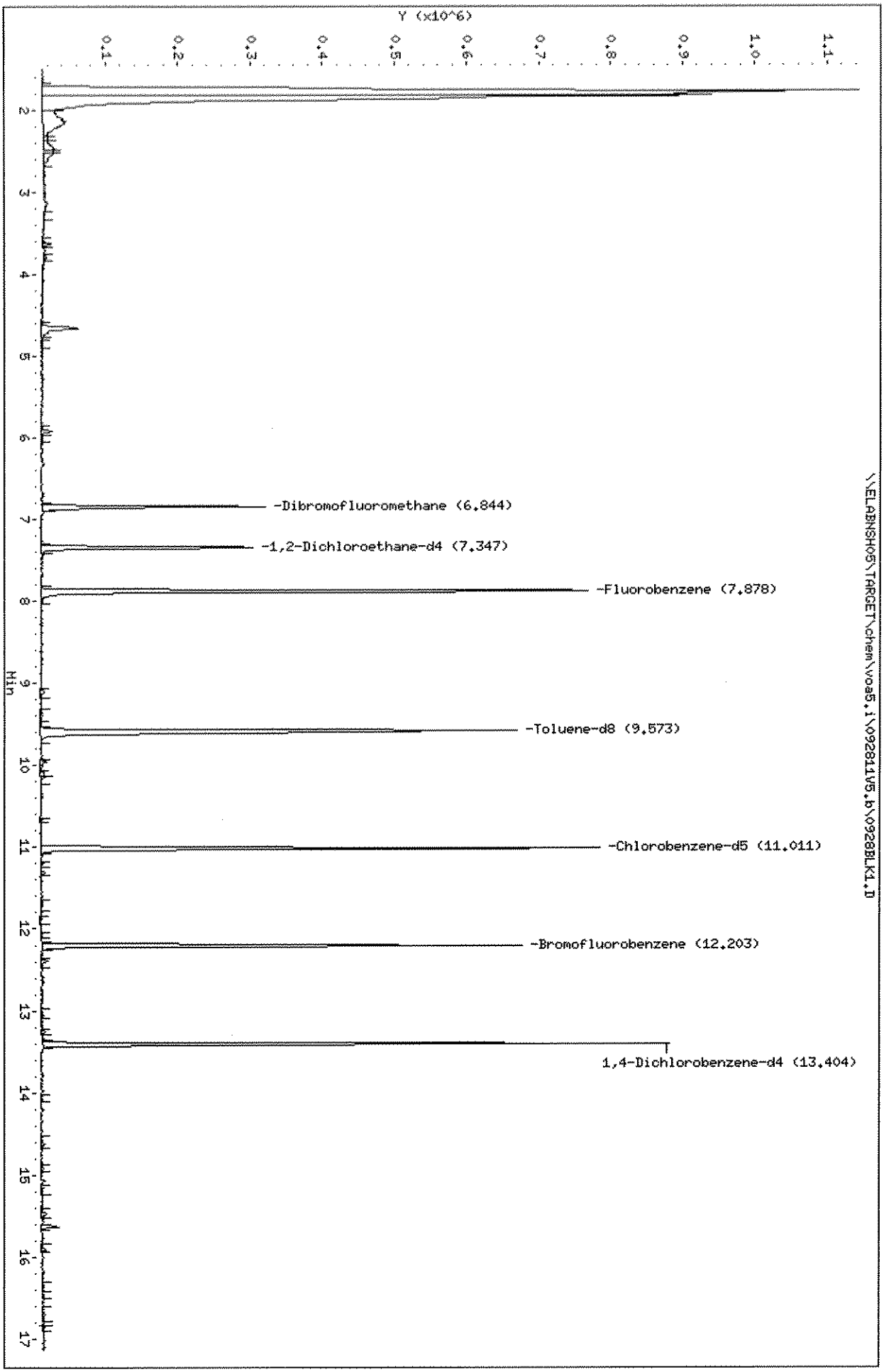
Data File: \\ELABNSH05\TARGET\chem\voa5.i\092811V5.b\0928BLK1.D
Report Date: 29-Sep-2011 08:33

QC Flag Legend

a - Target compound detected but, quantitated amount
    Below Limit Of Quantitation(BLOQ).
Q - Qualifier signal failed the ratio test.
M - Compound response manually integrated.

Data File: \\ELABNSH05\TARGET\chem\voa5.i\092811V5.b\0928BLK1.D
Date : 28-SEP-2011 12:41
Client ID: 1I28025-BLK1
Sample Info: 1I28025-BLK1;;;;;
Column phase: RTX-VRX

Instrument: voa5.i
Operator: ADM
Column diameter: 0.25



Data File: \\ELABNSH05\TARGET\chem\voa5.i\092811V5.b\0928BLK1.D

Date : 28-SEP-2011 12:41

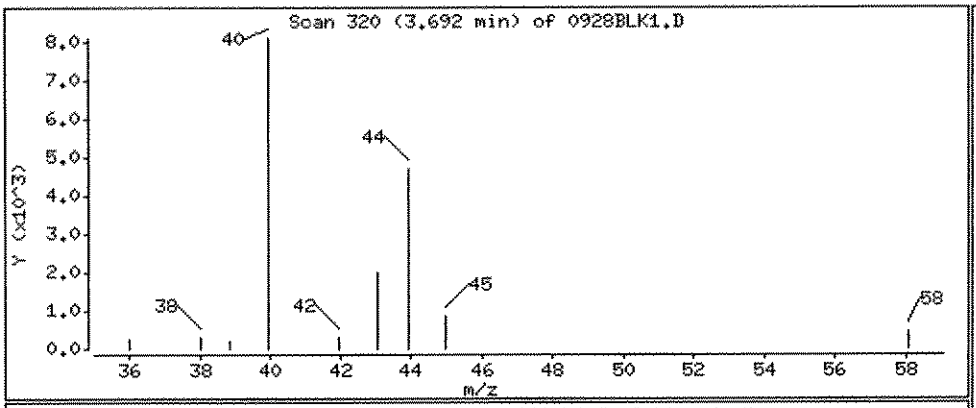
Client ID: 1I28025-BLK1 Instrument: voa5.i

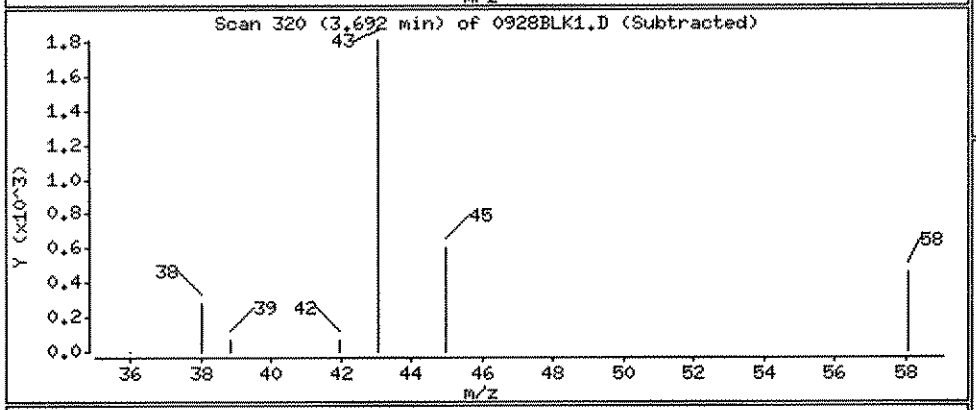
Sample Info: 1I28025-BLK1;;;;;

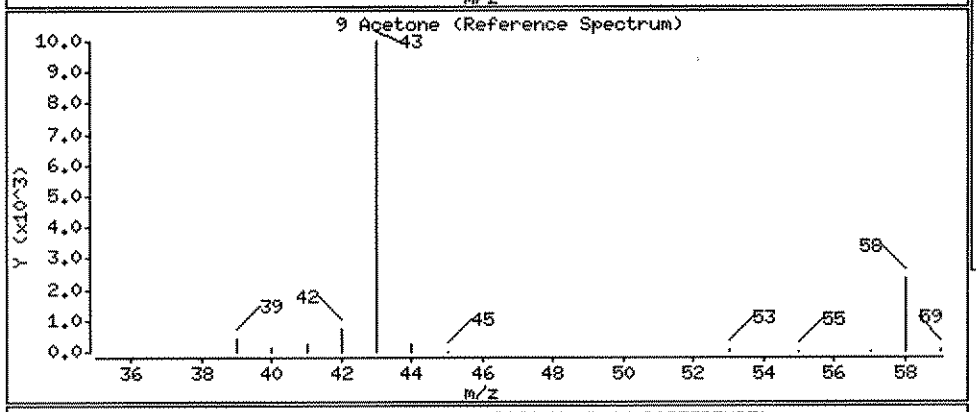
Operator: ADM

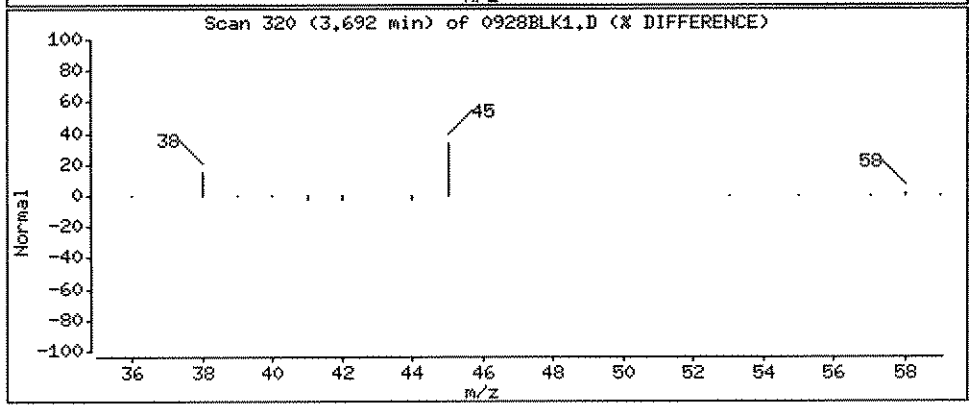
Column phase: RTX-VRX Column diameter: 0.25

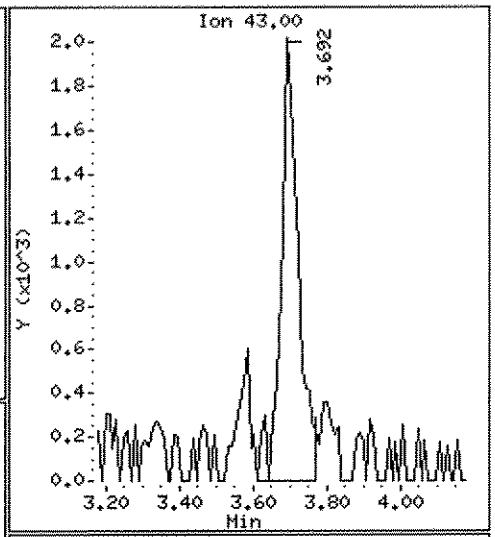
9 Acetone Concentration: 3.227 ug/Kg

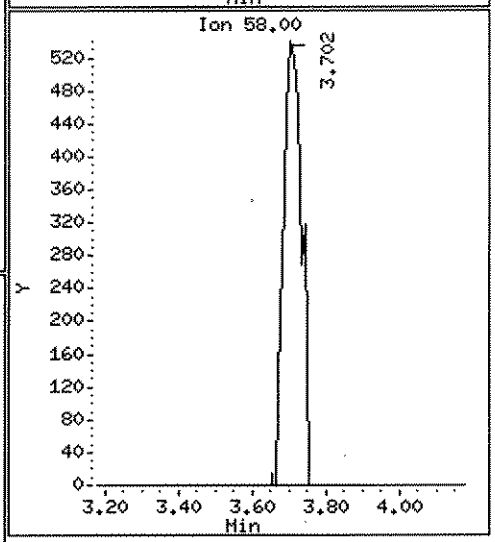












Data File: \\ELABNSH05\TARGET\chem\voa5.i\092811V5.b\0928BLK1.D

Date : 28-SEP-2011 12:41

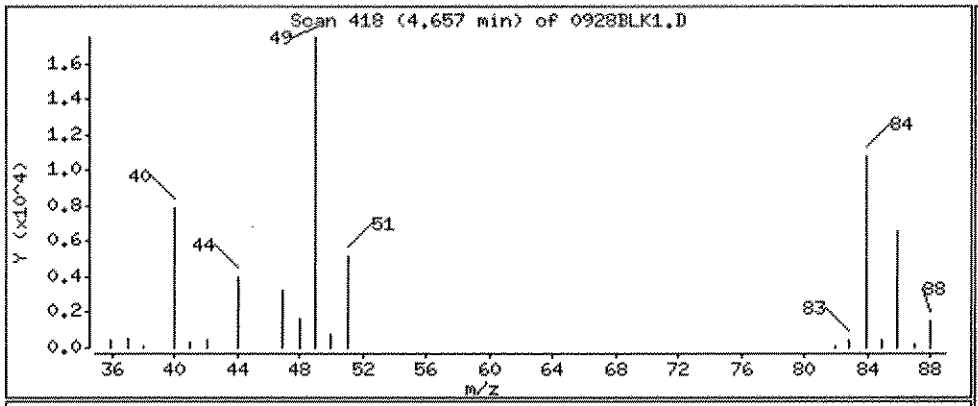
Client ID: 1I28025-BLK1 Instrument: voa5.i

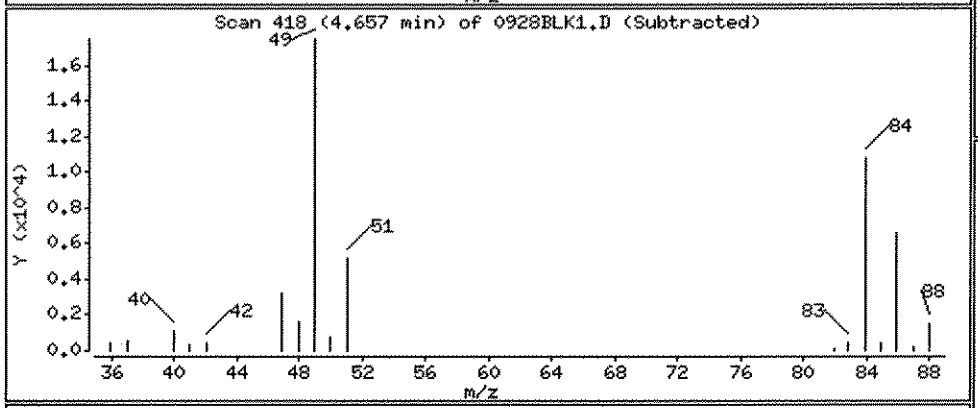
Sample Info: 1I28025-BLK1;;;;;

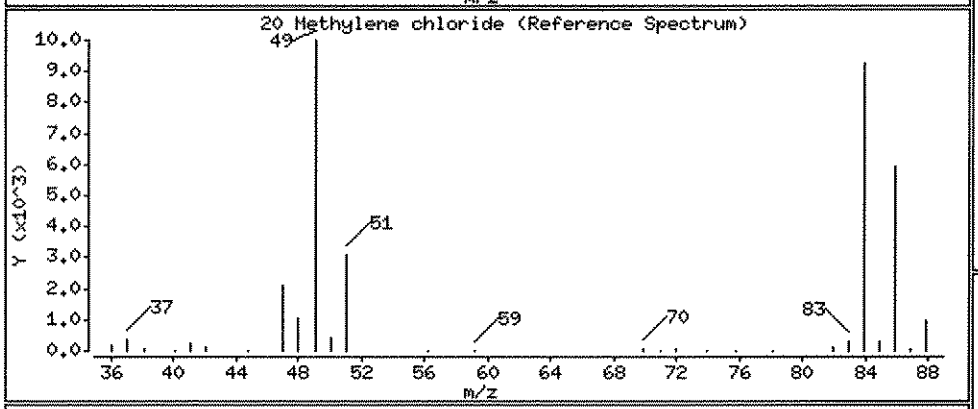
Operator: ADM

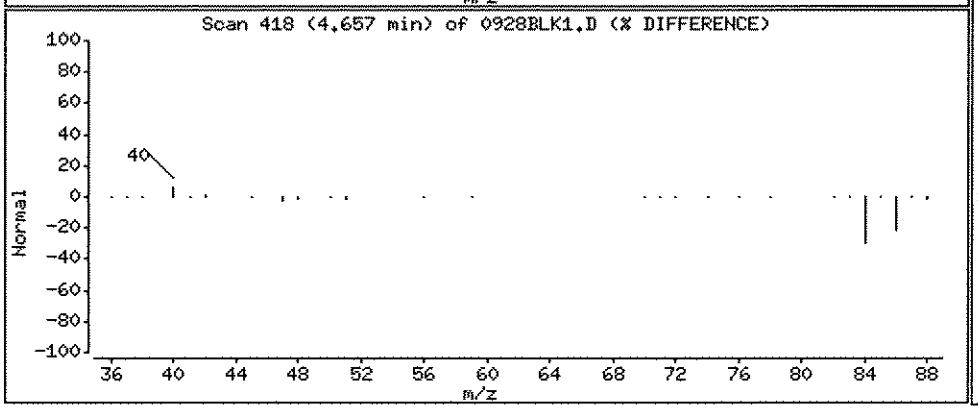
Column phase: RTX-VRX Column diameter: 0.25

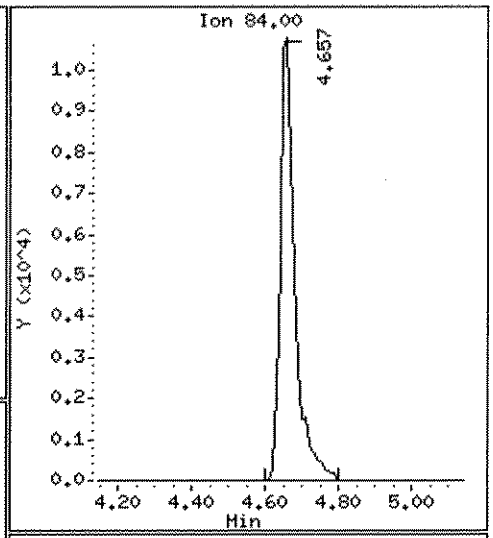
20 Methylene chloride Concentration: 3.906 ug/Kg

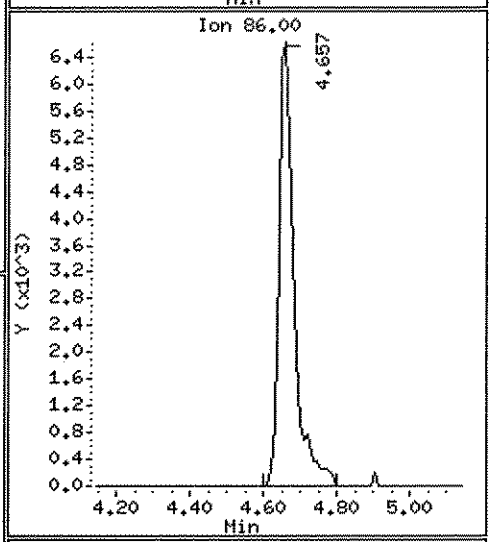


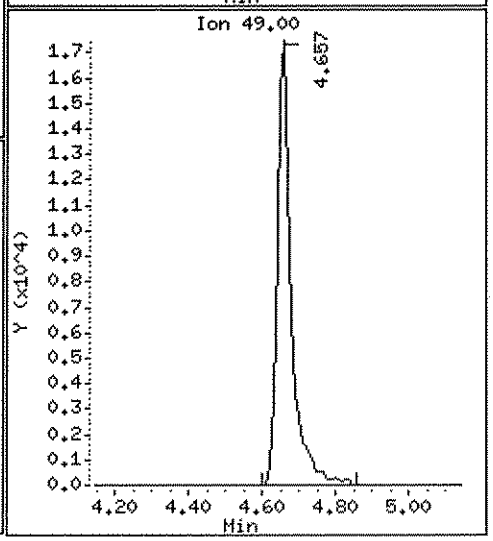












Data File: \\ELABNSH05\TARGET\chem\voa5.i\092811V5.b\0928BLK1.D

Date : 28-SEP-2011 12:41

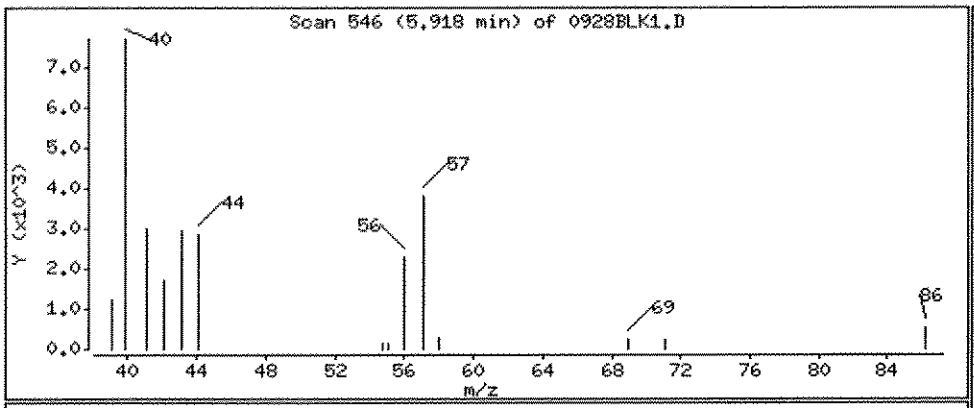
Client ID: 1I28025-BLK1 Instrument: voa5.i

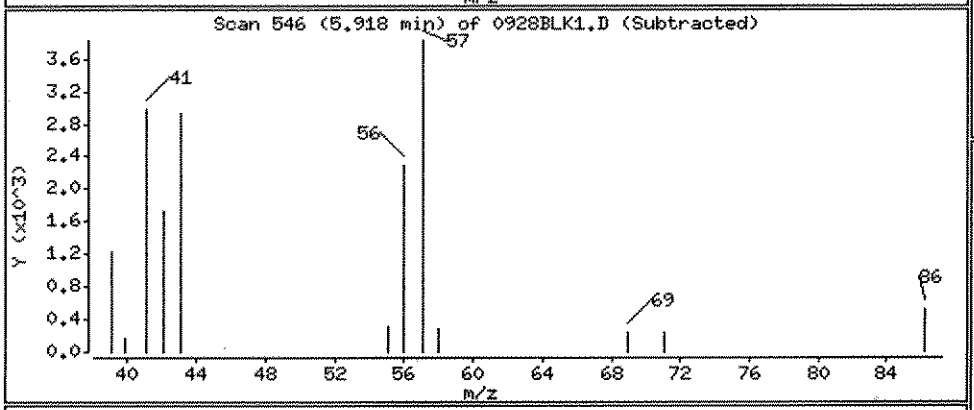
Sample Info: 1I28025-BLK1;;;;;

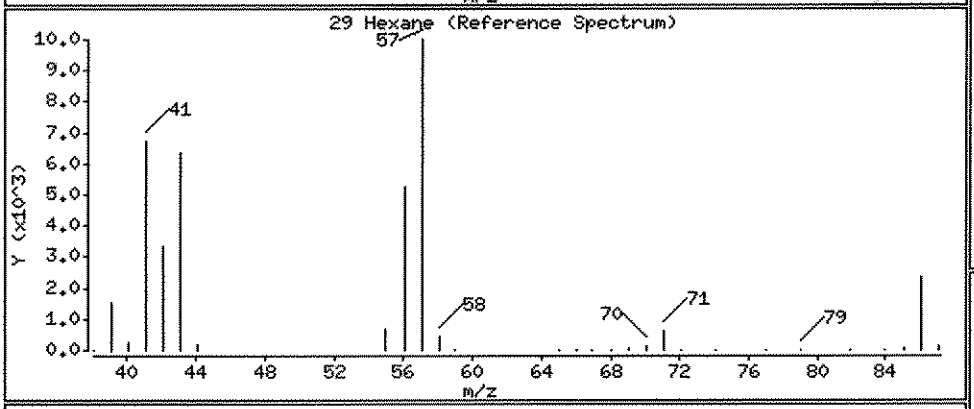
Operator: ADM

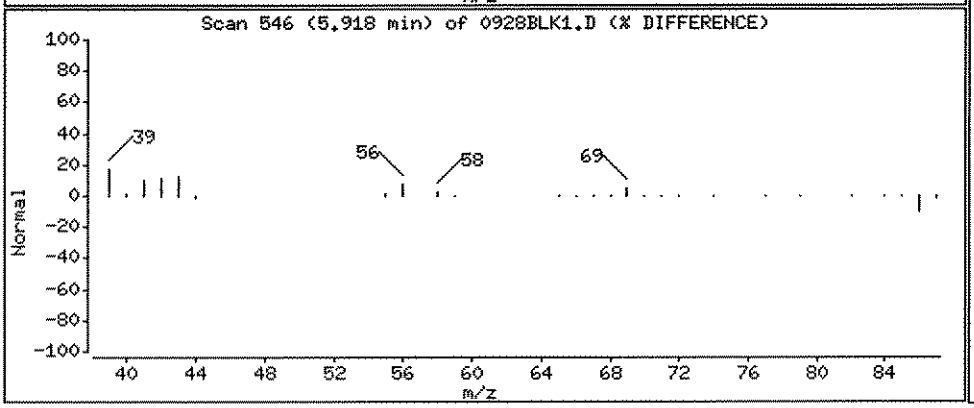
Column phase: RTX-VRX Column diameter: 0.25

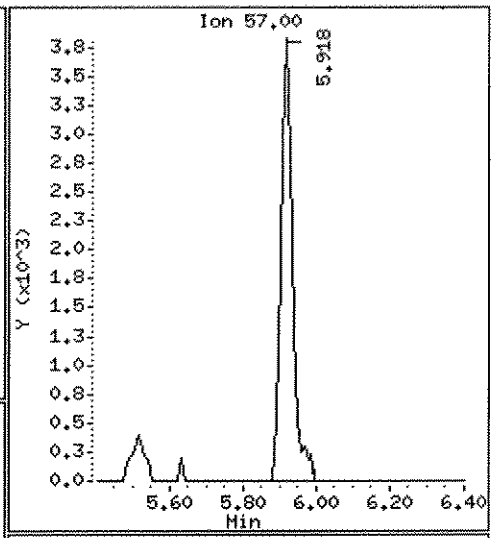
29 Hexane Concentration: 0.7388 ug/Kg

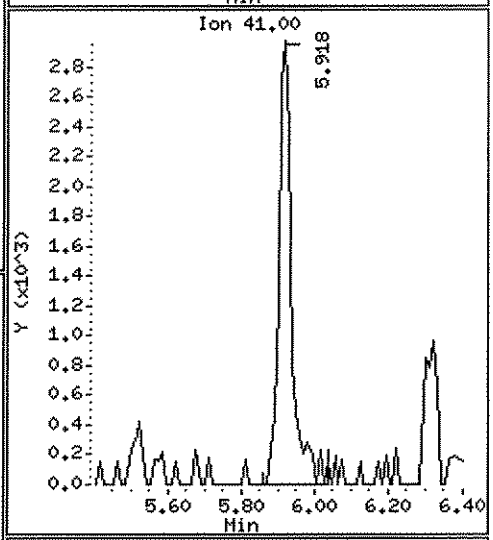


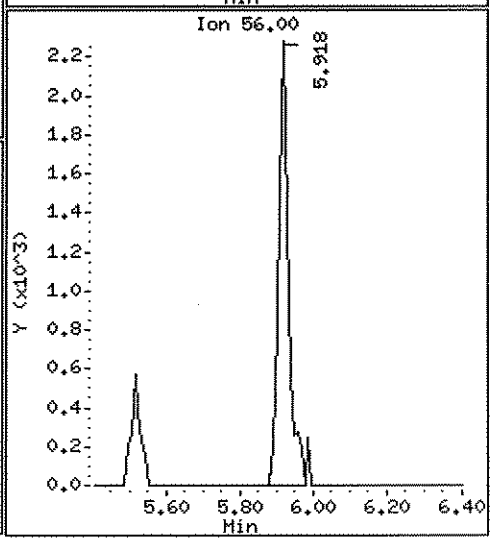












Data File: \\ELABNSH05\TARGET\chem\voa5.i\092811V5.b\0928BLK1.D

Date : 28-SEP-2011 12:41

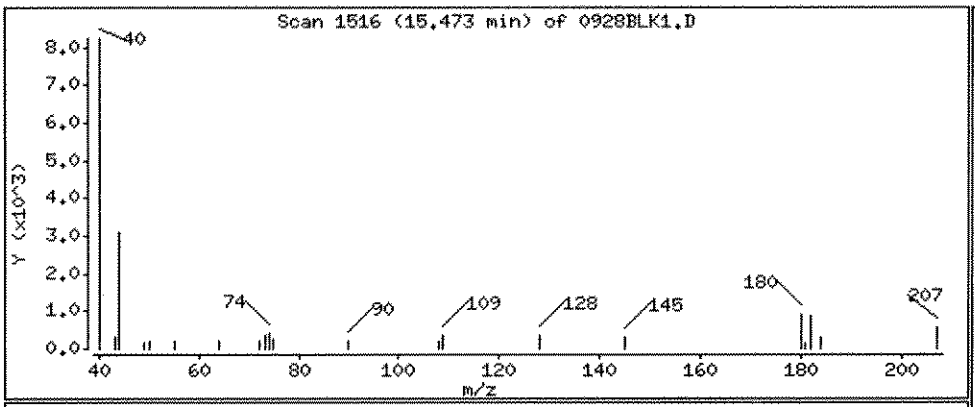
Client ID: 1I28025-BLK1 Instrument: voa5.i

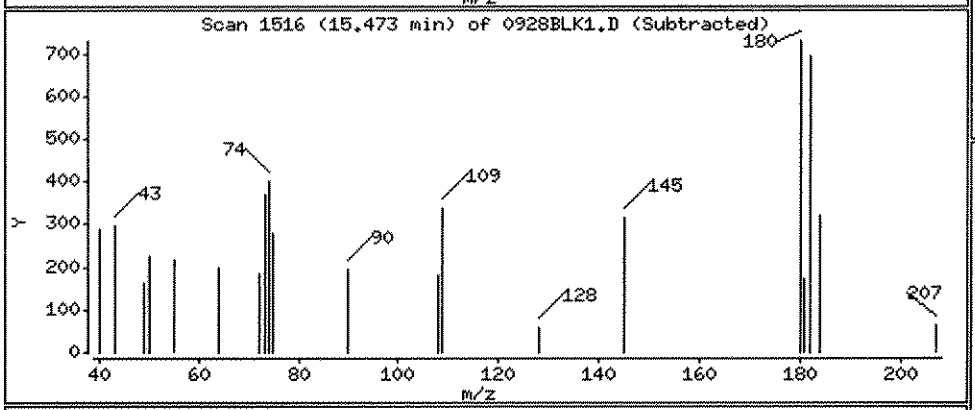
Sample Info: 1I28025-BLK1;;;;;

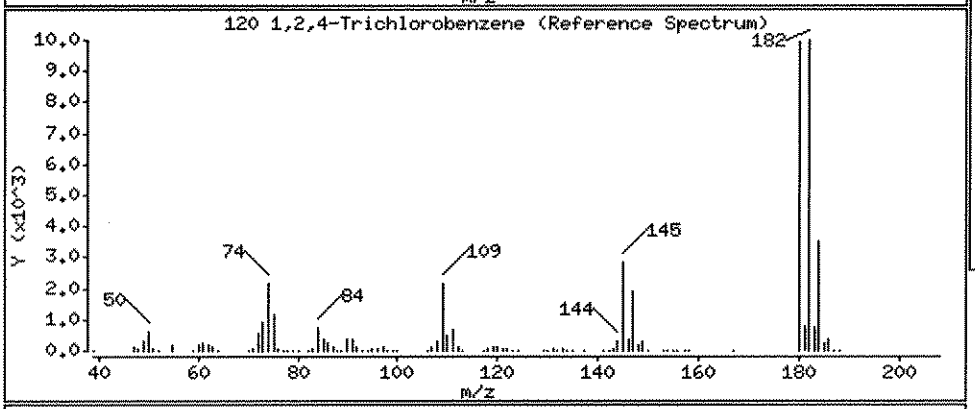
Operator: ADM

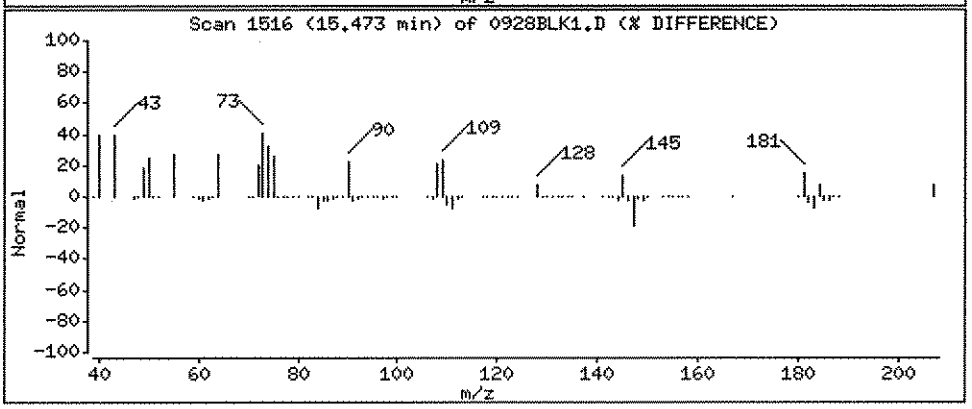
Column phase: RTX-VRX Column diameter: 0.25

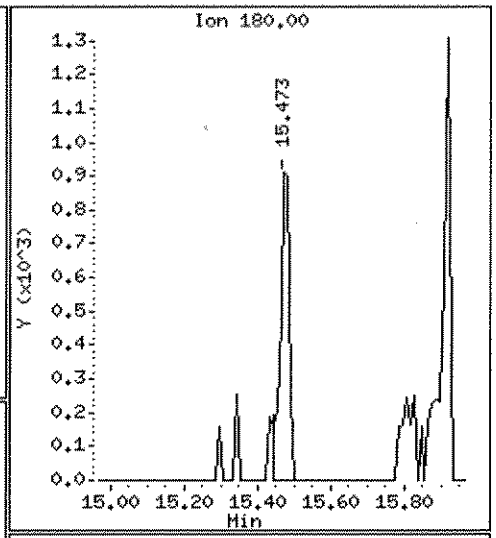
120 1,2,4-Trichlorobenzene Concentration: 0.4527 ug/Kg

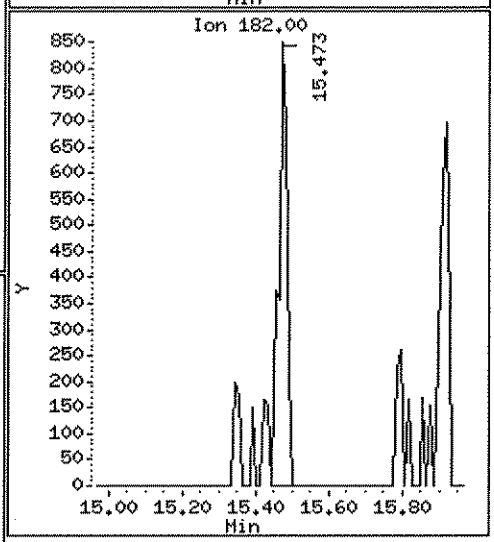












Data File: \\ELABNSH05\TARGET\chem\voa5.i\092811V5.b\0928BLK1.D

Date : 28-SEP-2011 12:41

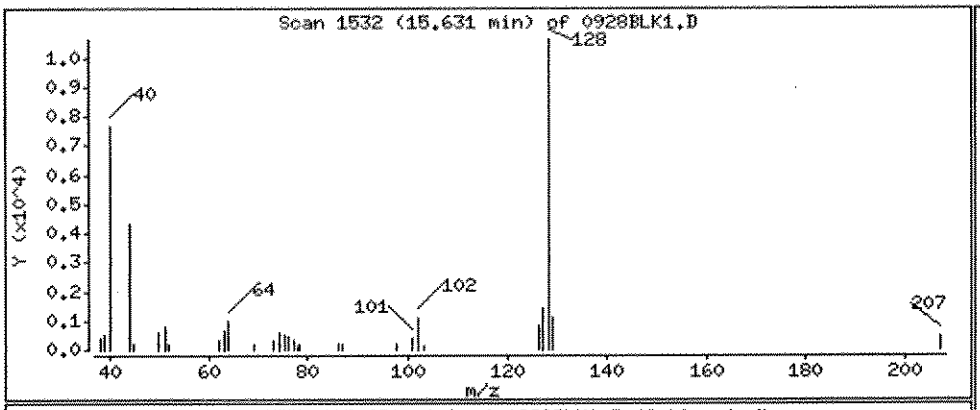
Client ID: 1I28025-BLK1 Instrument: voa5.i

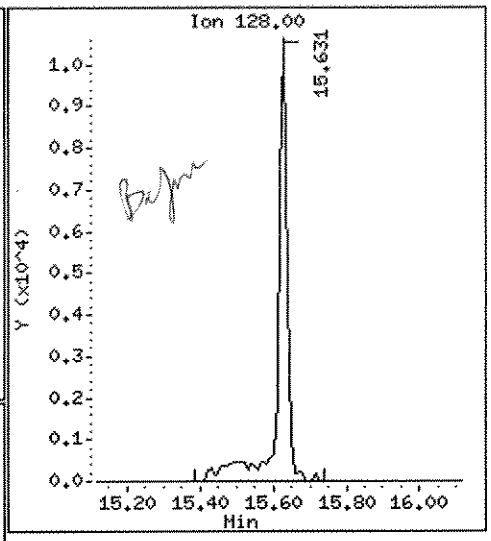
Sample Info: 1I28025-BLK1;;;;;

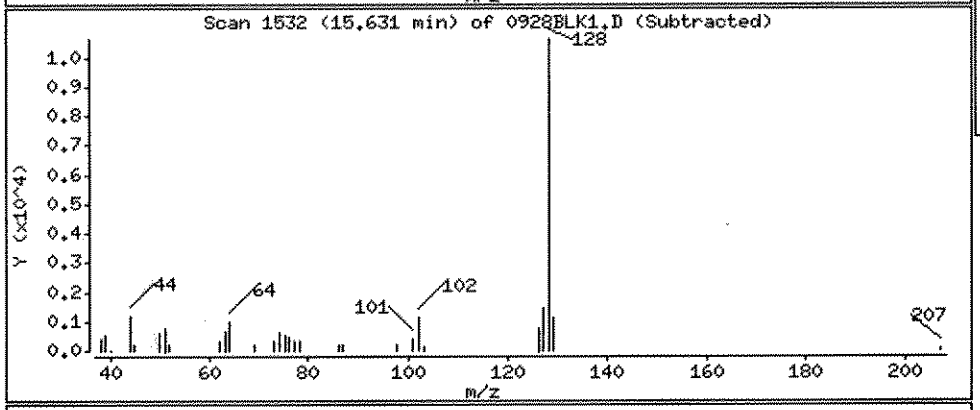
Operator: ADM

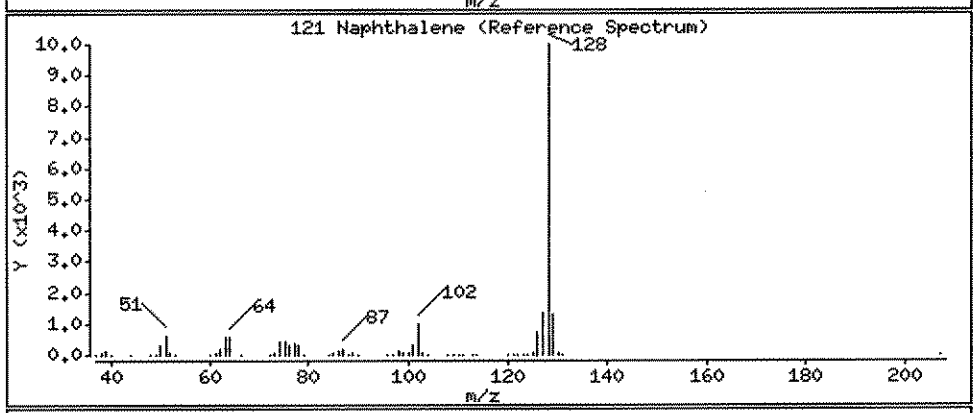
Column phase: RTX-VRX Column diameter: 0.25

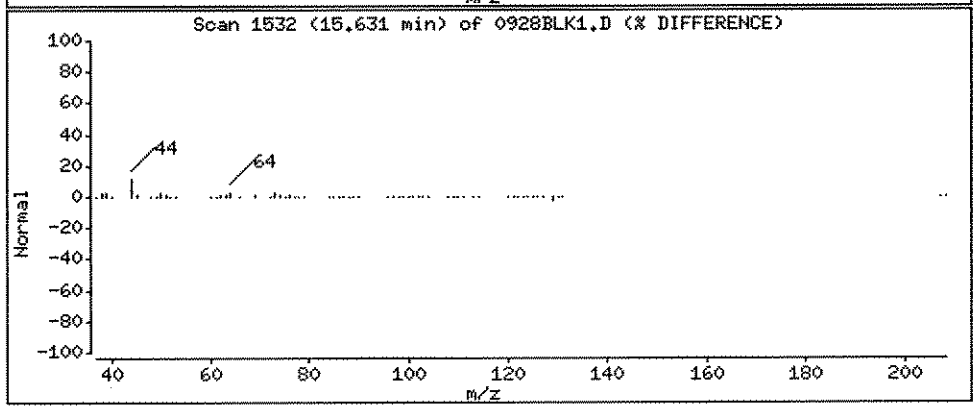
121 Naphthalene Concentration: 2.376 ug/Kg











Data File: \\ELABNSH05\TARGET\chem\voa5.i\092811V5.b\0928BLK1.D

Date : 28-SEP-2011 12:41

Client ID: 1I28025-BLK1

Instrument: voa5.i

Sample Info: 1I28025-BLK1;;;;;

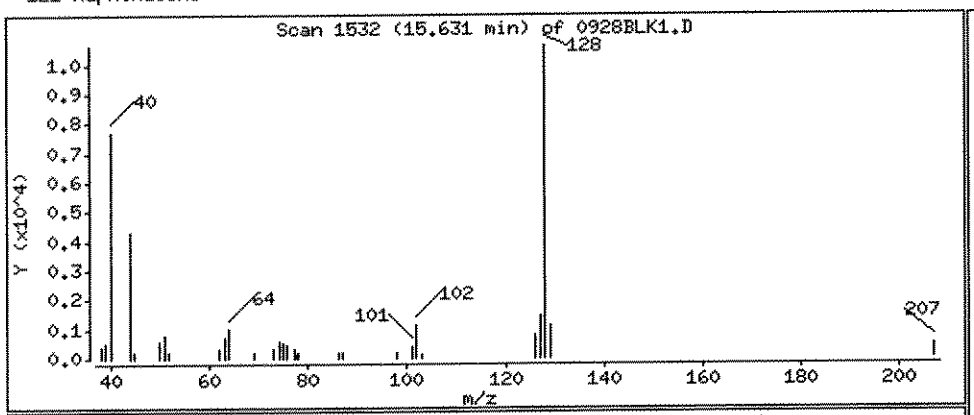
Operator: ADM

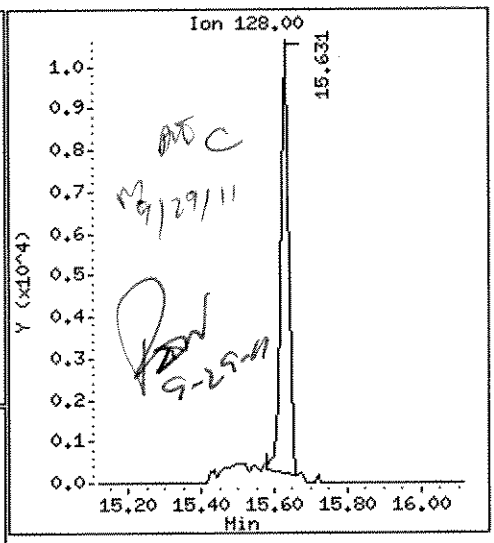
Column phase: RTX-VRX

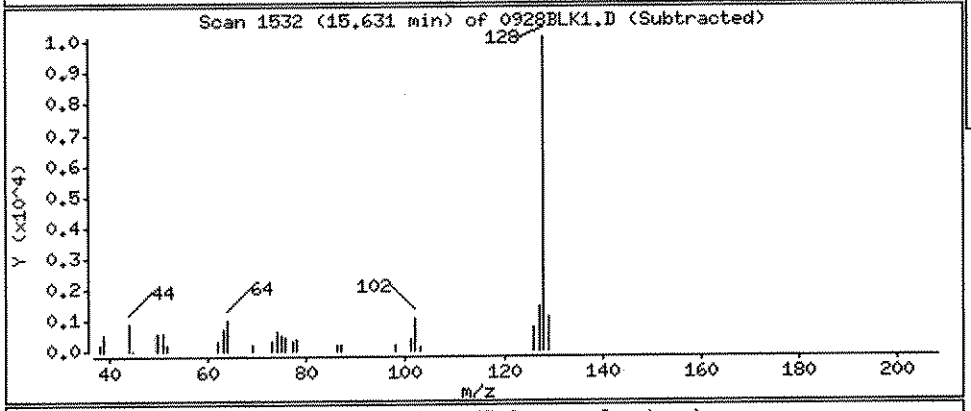
Column diameter: 0.25

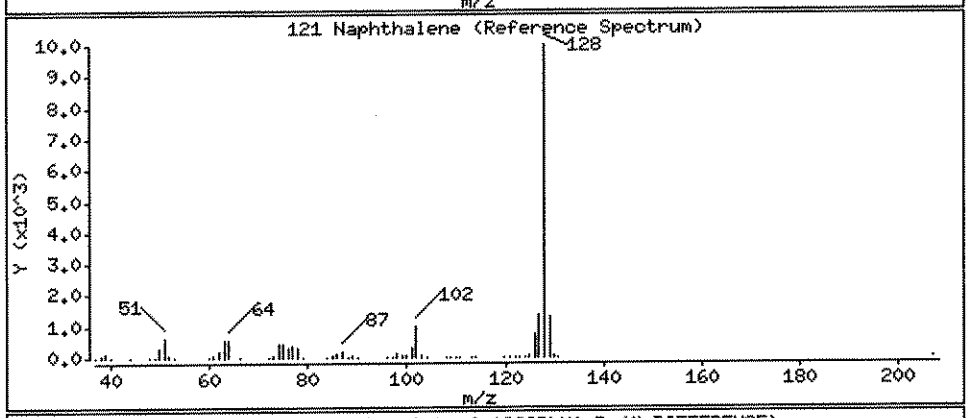
121 Naphthalene

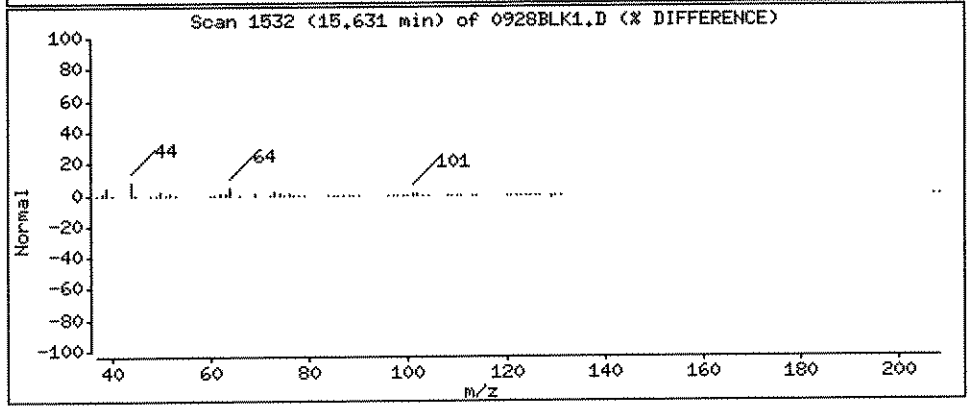
Concentration: 1.493 ug/Kg











Data File: \\ELABNSH05\TARGET\chem\voa5.i\092811V5.b\0928BLK1.D

Date : 28-SEP-2011 12:41

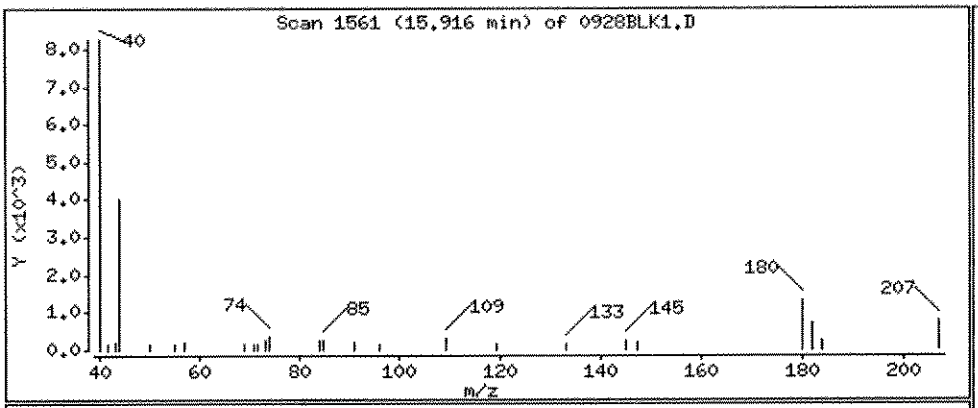
Client ID: 1I28025-BLK1 Instrument: voa5.i

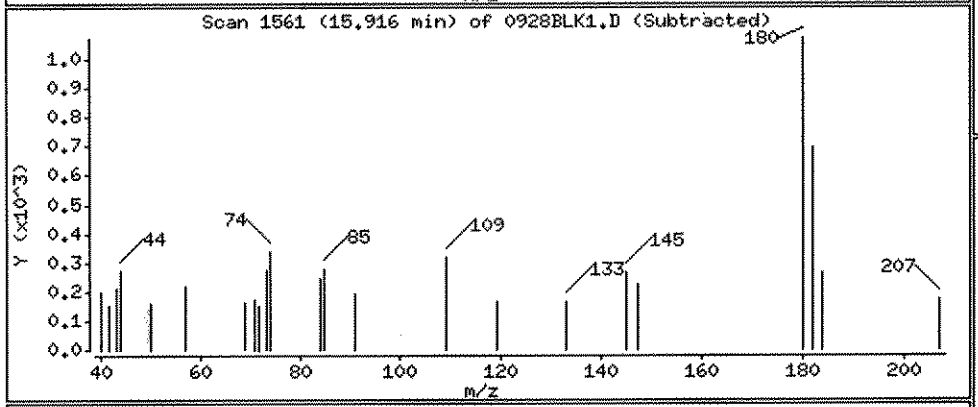
Sample Info: 1I28025-BLK1;;;;;

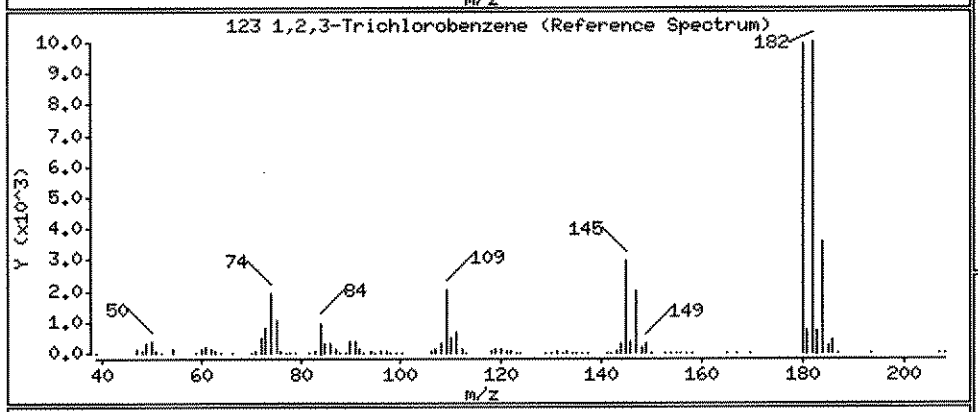
Operator: ADM

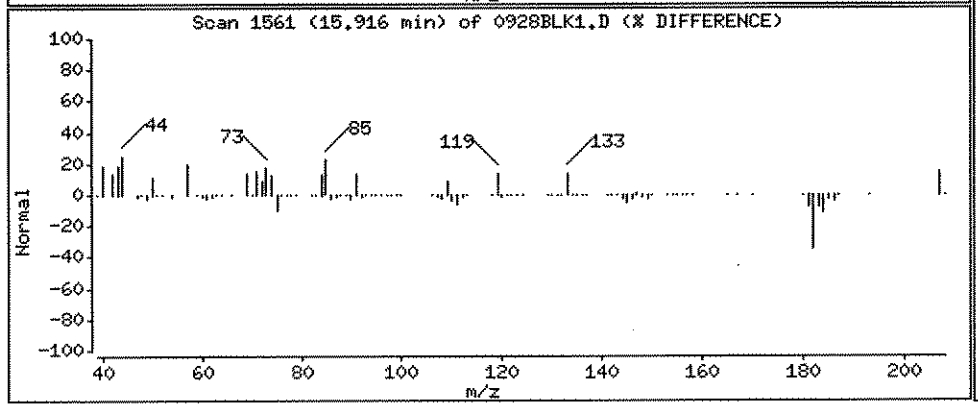
Column phase: RTX-VRX Column diameter: 0.25

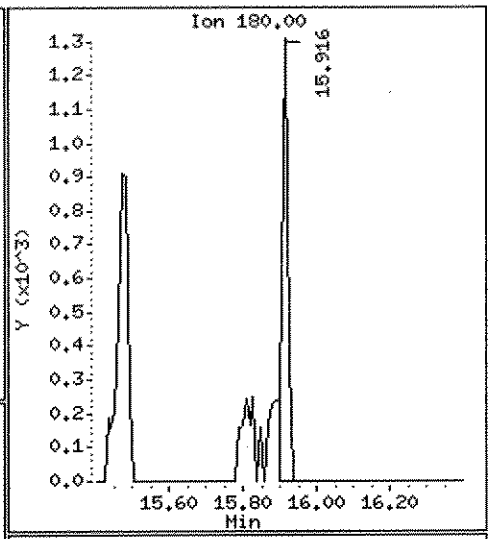
123 1,2,3-Trichlorobenzene Concentration: 0.4292 ug/Kg

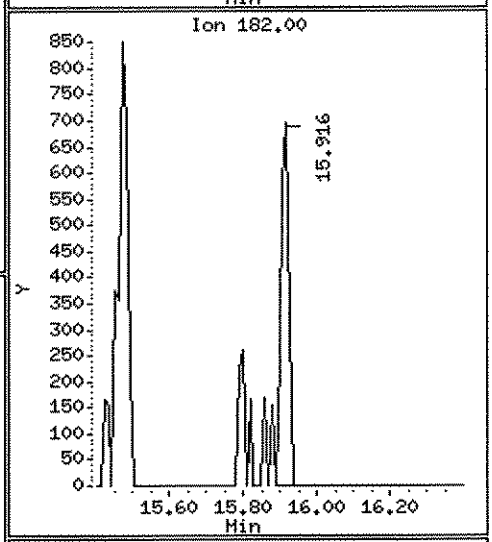


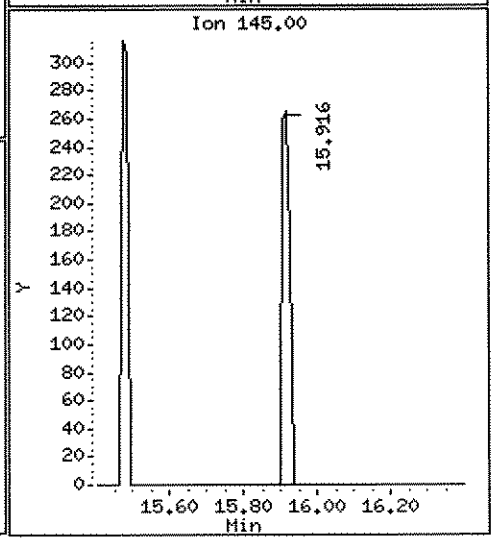












Data File: \\ELABNSH05\TARGET\chem\voa5.i\092811V5.b\0919104R.D
Report Date: 29-Sep-2011 05:59

Laboratory Name

Data file : \\ELABNSH05\TARGET\chem\voa5.i\092811V5.b\0919104R.D
Lab Smp Id: 1109191-04RE1
Inj Date : 28-SEP-2011 14:53 MS Autotune Date: 28-JUL-1998 05:19
Operator : ADM Inst ID: voa5.i
Smp Info : 1109191-04RE1;;;;;
Misc Info : ;;;;;8260.sub;
Comment :
Method : \\ELABNSH05\TARGET\chem\voa5.i\092811V5.b\VS5SUR.m
Meth Date : 29-Sep-2011 05:58 amonteiro Quant Type: ISTD
Cal Date : 22-SEP-2011 14:24 Cal File: 0922CAL1.D
Als bottle: 10
Dil Factor: 1.00000
Integrator: HP RTE Compound Sublist: 8260.sub
Target Version: 4.04
Processing Host: TARGET02_VM

Concentration Formula: Amt * DF * 5*Uf/(Ws*(Solids/100))

Name	Value	Description
DF	1.000	Dilution Factor
Uf	1.000	unit correction factor
Ws	5.000	Weight of sample extracted (g)
Solids	100.000	Percent Solids

MA | 29/11
matrix X
no mem Rec

9-29-11

Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS ON-COLUMN (ug/Kg)	FINAL (ug/Kg)
* 55 Fluorobenzene	96	7.866	7.865	(1.000)	603207	30.0000	
10 Acetonitrile	41	3.768	3.757	(0.479)	14325	16.5194	16.52(Q)
9 Acetone	43	3.689	3.678	(0.469)	311316	167.158	167.2
20 Methylene chloride	84	4.645	4.644	(0.591)	614138	87.5151	87.52
34 2-Butanone	43	6.142	6.141	(0.781)	28531	8.70634	8.706(a)
29 Hexane	57	5.915	5.904	(0.752)	6712	0.63577	0.6358(a)
$ 44 Dibromofluoromethane	111	6.841	6.840	(0.870)	178749	34.6018	34.60
$ 48 1,2-Dichloroethane-d4	102	7.334	7.333	(0.932)	35971	33.8903	33.89
53 Benzene	78	7.600	7.599	(0.966)	28383	1.22247	1.222
$ 71 Toluene-d8	98	9.570	9.569	(0.870)	487602	34.8067	34.81(R)
74 Toluene	92	9.648	9.647	(0.877)	28622	2.83123	2.831
77 2-Hexanone	43	9.944	9.943	(0.904)	12318	3.79909	3.799(a)
63 Methyl cyclohexane	83	8.742	8.741	(1.111)	3645	0.38127	0.3813(a)
* 82 Chlorobenzene-d5	82	10.998	10.997	(1.000)	213189	30.0000	
86 Ethylbenzene	91	11.185	11.184	(1.017)	31451	1.69867	1.699

Data File: \\ELABNSH05\TARGET\chem\voa5.i\092811V5.b\0919104R.D
Report Date: 29-Sep-2011 05:59

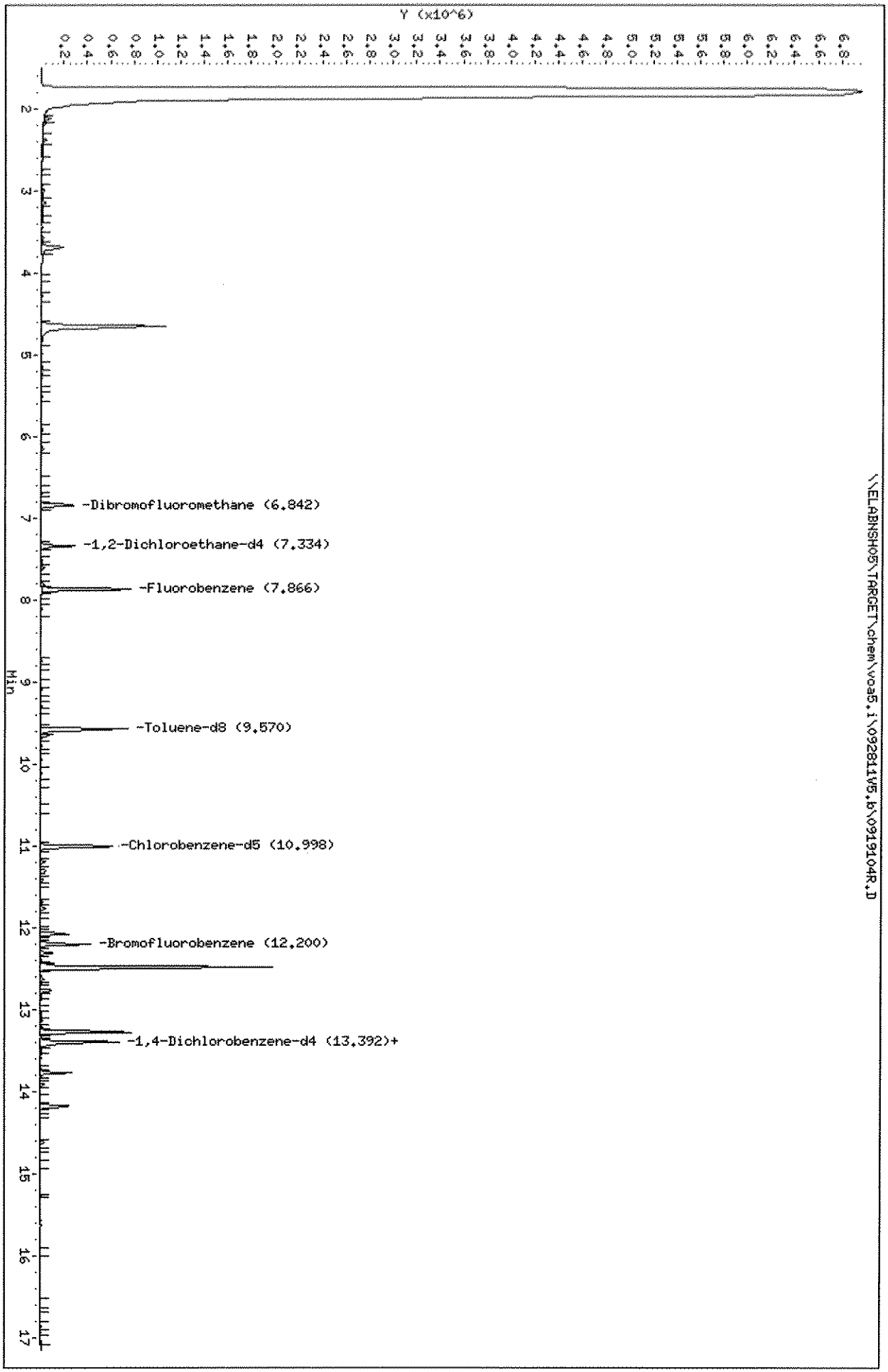
Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS ON-COLUMN (ug/Kg)	FINAL (ug/Kg)
87 m,p-Xylene	91	11.293	11.302	(1.027)	31485	2.45859	2.458
M 119 Xylene(total)	91				41378	3.20548	3.205
89 o-Xylene	91	11.687	11.686	(1.063)	9893	0.74689	0.7469(a)
$ 97 Bromofluorobenzene	95	12.200	12.199	(1.109)	151746	25.6672	25.67
106 1,2,4-Trimethylbenzene	105	13.047	13.046	(0.974)	6662	1.13221	1.132
107 sec-Butylbenzene	105	13.273	13.253	(0.990)	36998	4.23589	4.236
* 110 1,4-Dichlorobenzene-d4	152	13.401	13.400	(1.000)	83500	30.0000	
113 n-Butylbenzene	91	13.766	13.785	(1.027)	40543	6.56281	6.563
109 p-Isopropyltoluene	119	13.392	13.391	(0.999)	227106	39.7965	39.80

QC Flag Legend

a - Target compound detected but, quantitated amount Below Limit Of Quantitation(BLOQ).
Q - Qualifier signal failed the ratio test.
R - Spike/Surrogate failed recovery limits.

Data File: \\ELABNSH05\TARGET\chem\voa5.i\092811V5.b\0919104R.D
Date : 28-SEP-2011 14:53
Client ID:
Sample Info: 1109191-04REI;;;;;
Column phase: RTX-VRX

Instrument: voa5.i
Operator: ADM
Column diameter: 0.25



Data File: \\ELABNSH05\TARGET\chem\voa5.i\092811V5.b\0919104R.D

Date : 28-SEP-2011 14:53

Client ID:

Instrument: voa5.i

Sample Info: 1109191-04RE1;;;;;

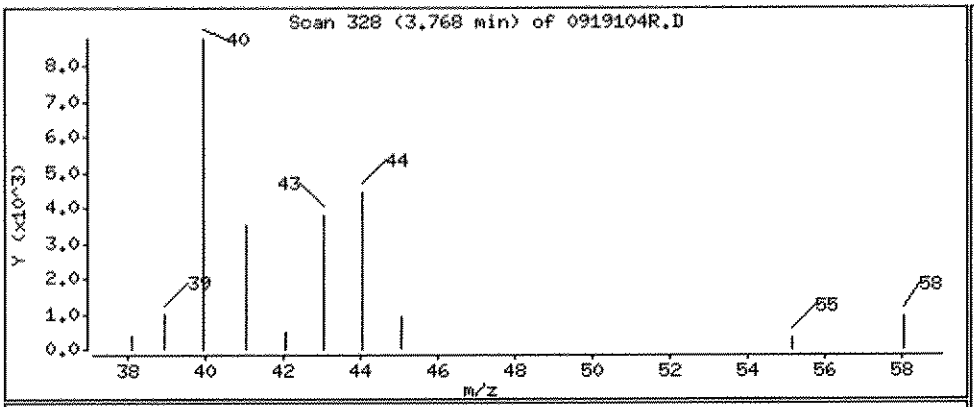
Operator: ADM

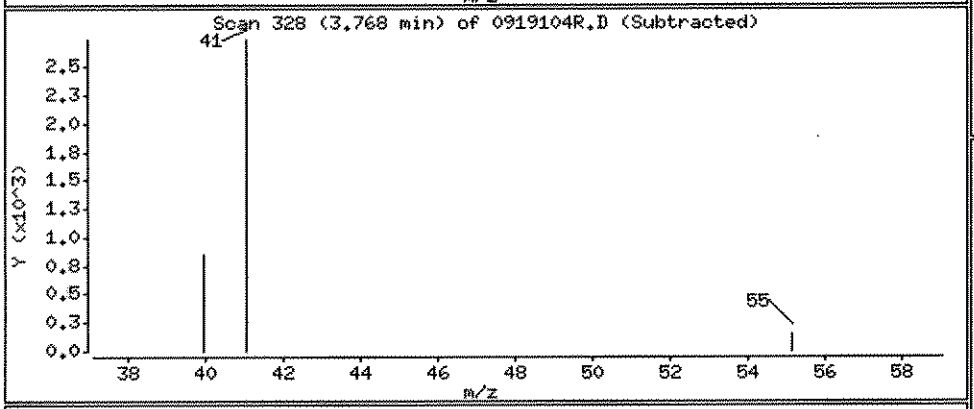
Column phase: RTX-VRX

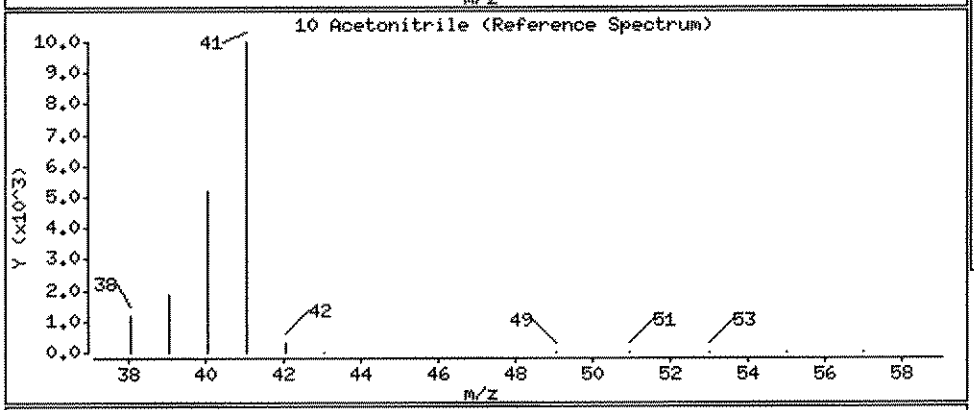
Column diameter: 0.25

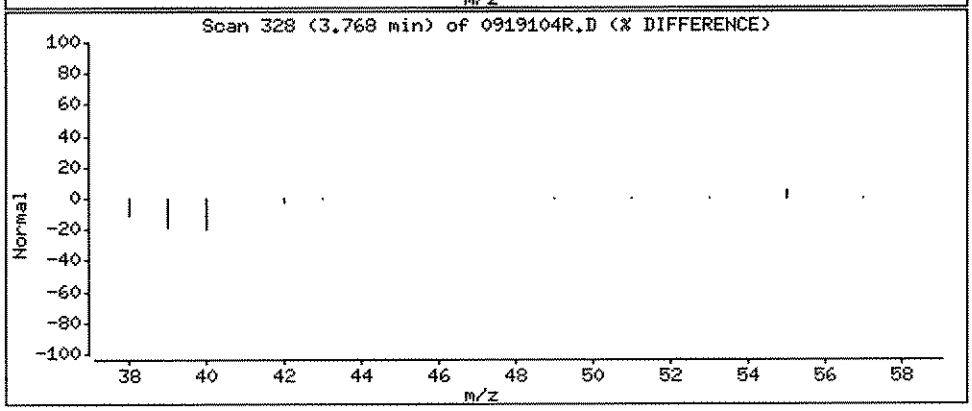
10 Acetonitrile

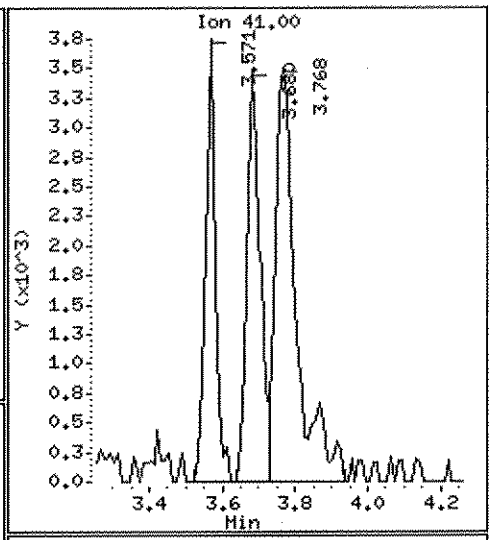
Concentration: 16.52 ug/Kg

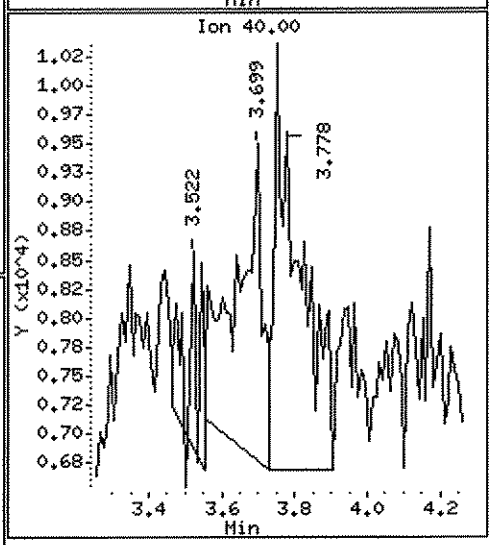












Data File: \\ELABNSH05\TARGET\chem\voa5.i\092811V5.b\0919104R.D

Date : 28-SEP-2011 14:53

Client ID:

Instrument: voa5.i

Sample Info: 1109191-04RE1;;;;;

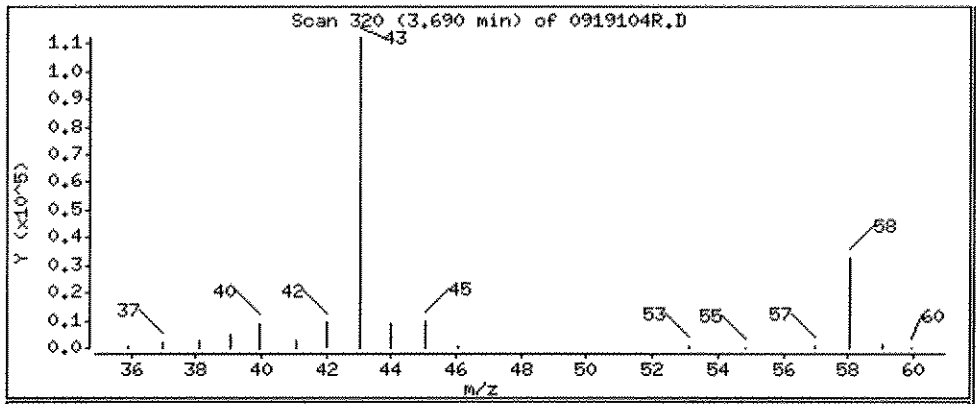
Operator: ADH

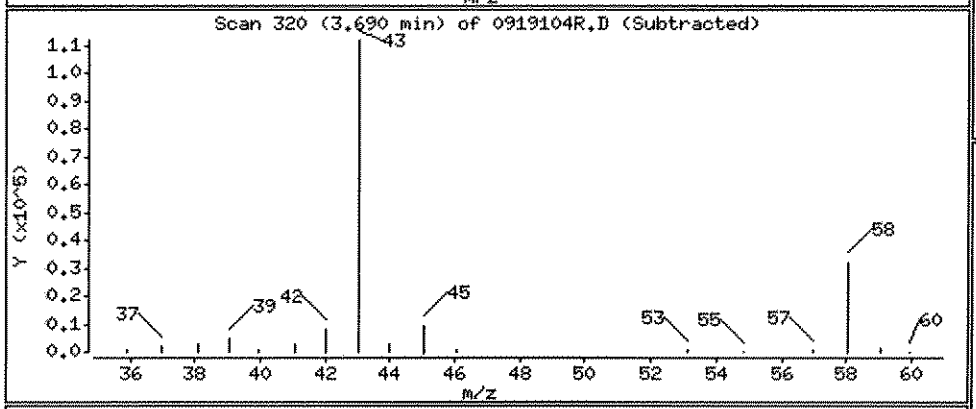
Column phase: RTX-VRX

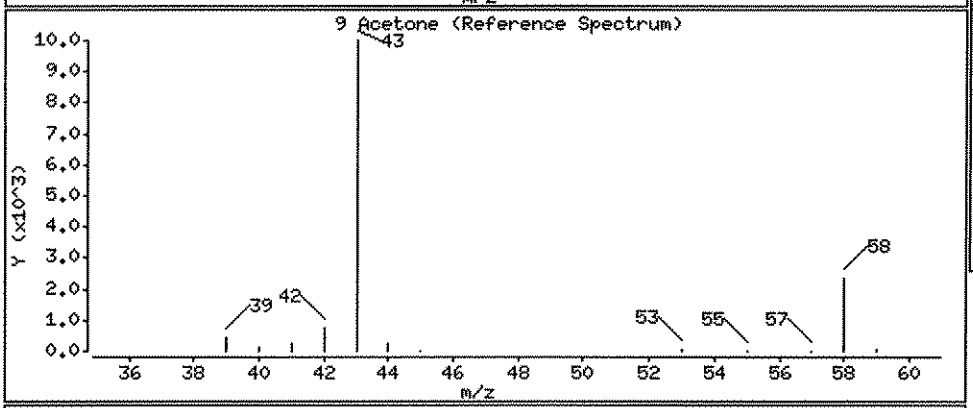
Column diameter: 0.25

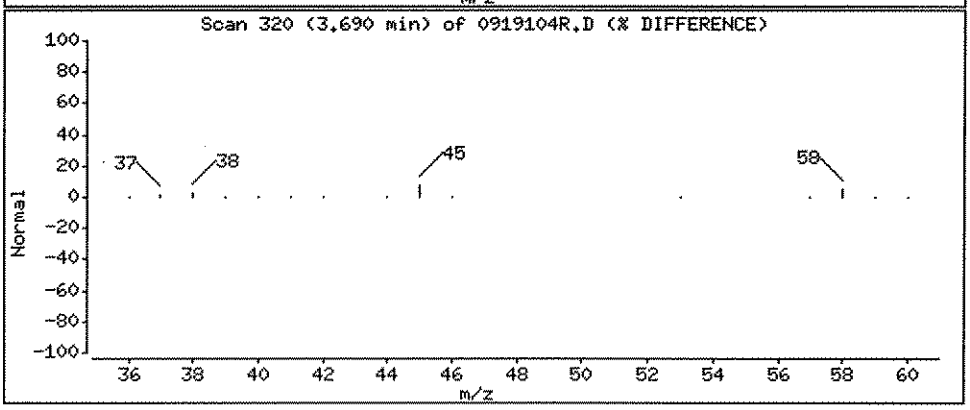
9 Acetone

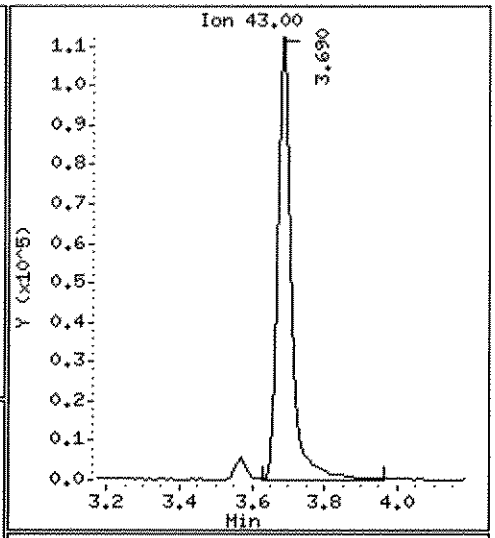
Concentration: 167.2 ug/Kg

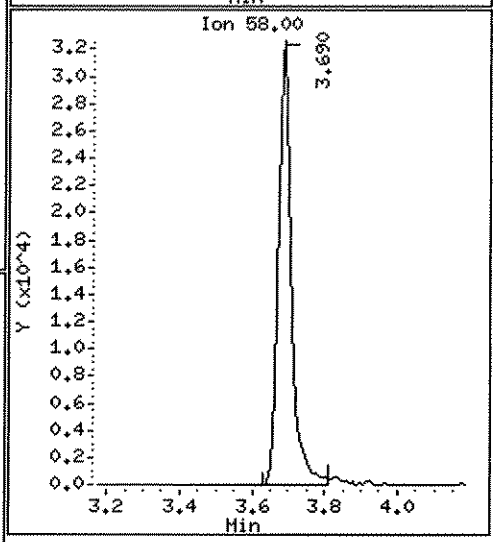












Data File: \\ELABNSH05\TARGET\chem\voa5.i\092811V5.b\0919104R.D

Date : 28-SEP-2011 14:53

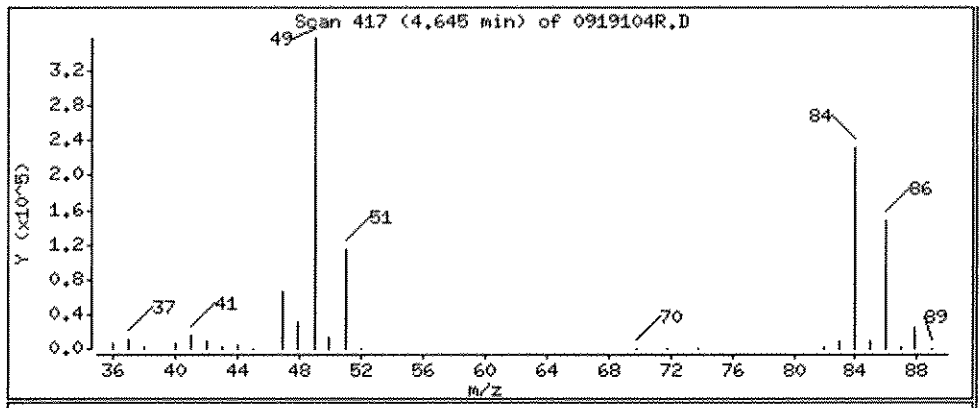
Client ID: Instrument: voa5.i

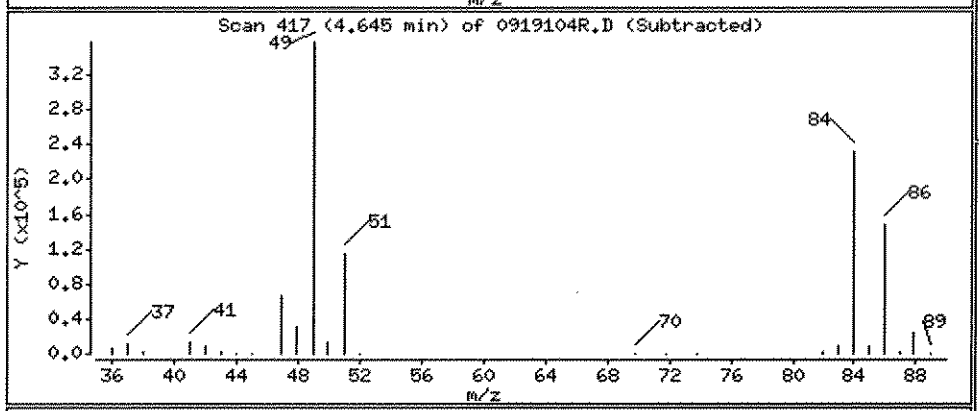
Sample Info: 1109191-04RE1;;;;;

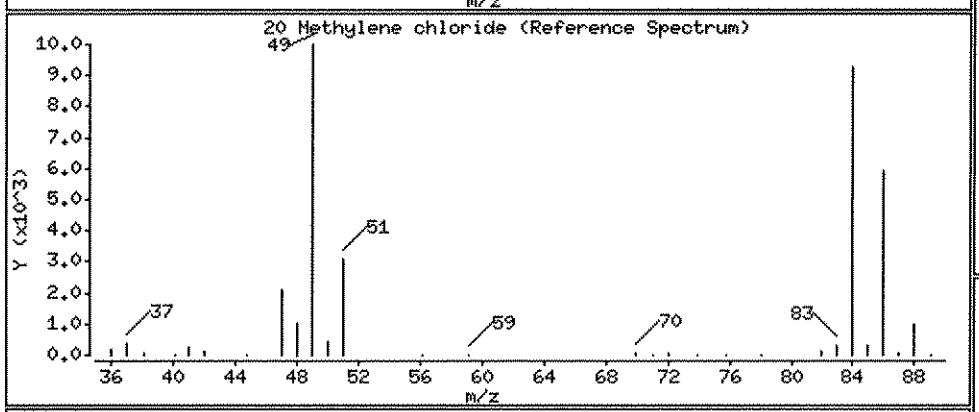
Operator: ADM

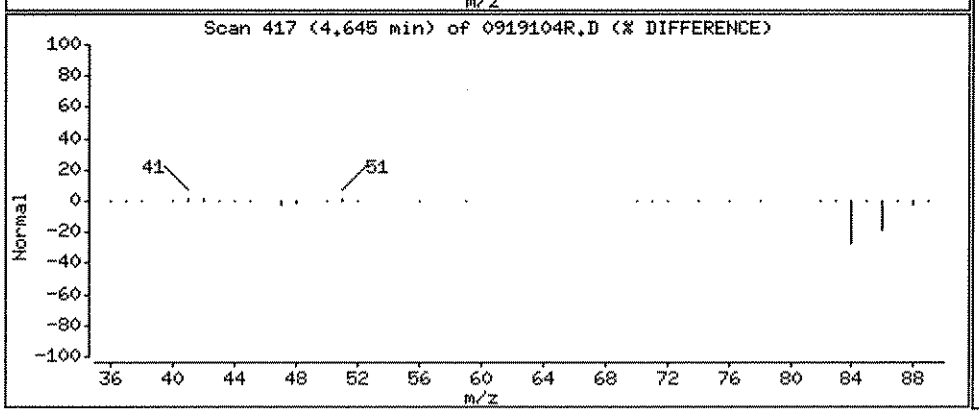
Column phase: RTX-VRX Column diameter: 0.25

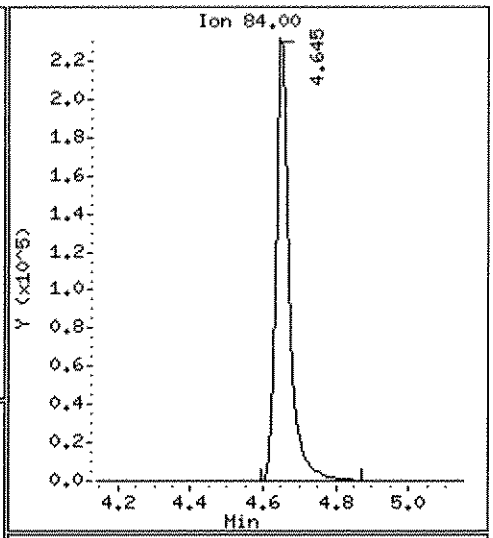
20 Methylene chloride Concentration: 87.52 ug/Kg

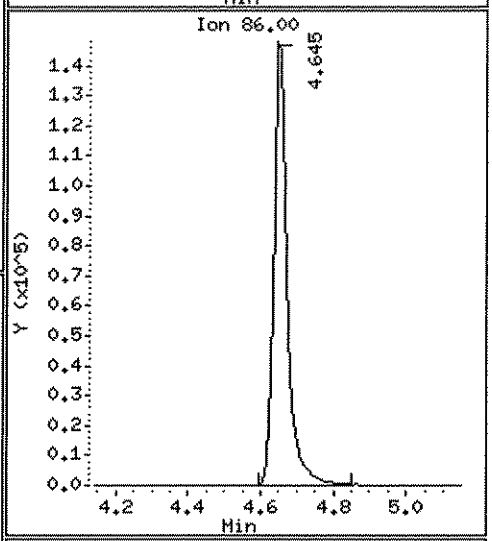


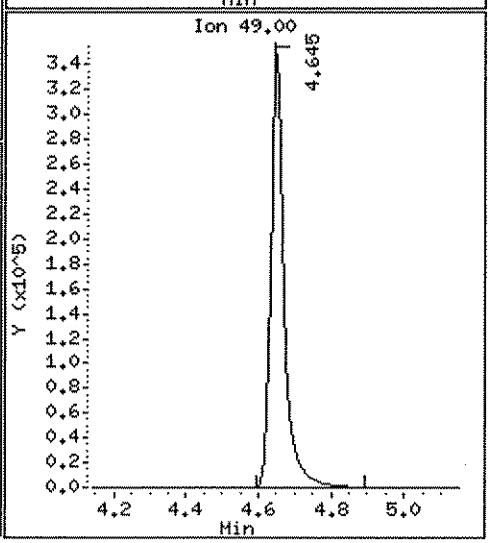












Data File: \\ELABNSH05\TARGET\chem\voa5.i\092811V5.b\0919104R.D

Date : 28-SEP-2011 14:53

Client ID:

Instrument: voa5.i

Sample Info: 1109191-04RE1;;;;;

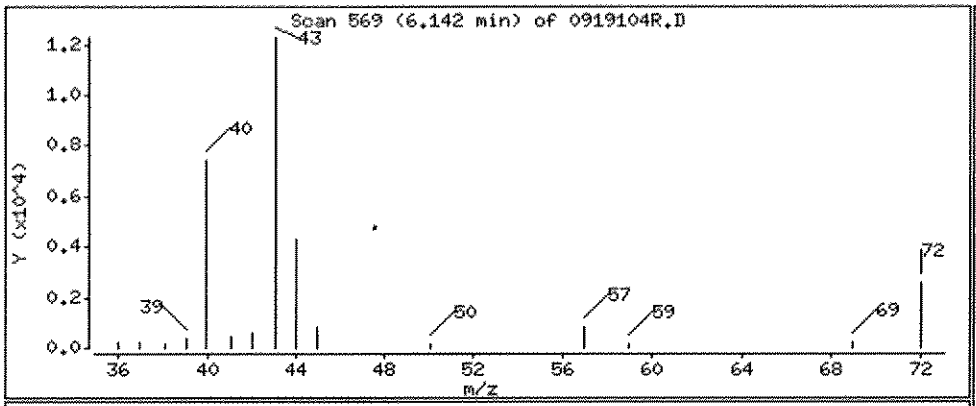
Operator: ADM

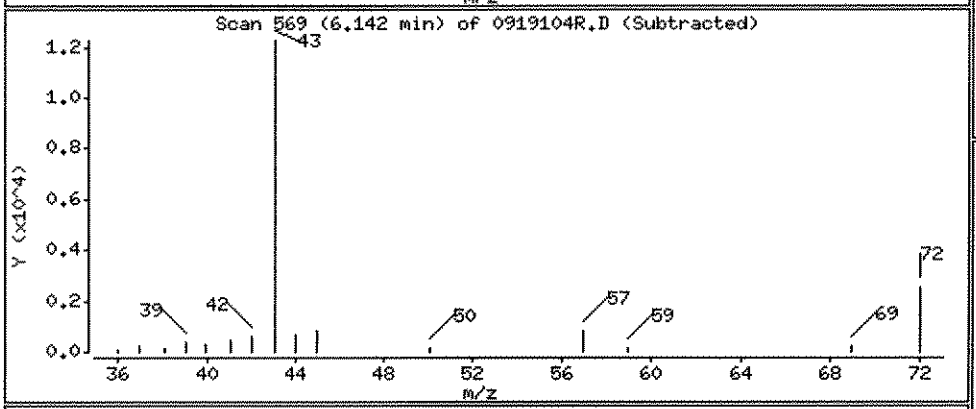
Column phase: RTX-VRX

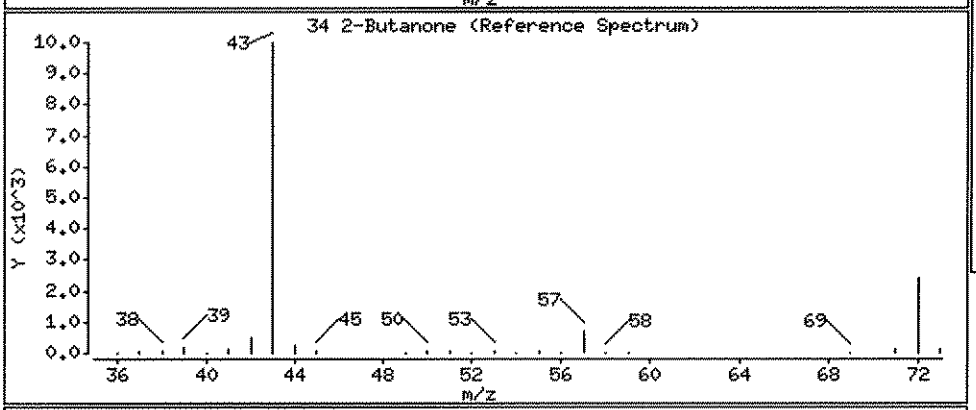
Column diameter: 0.25

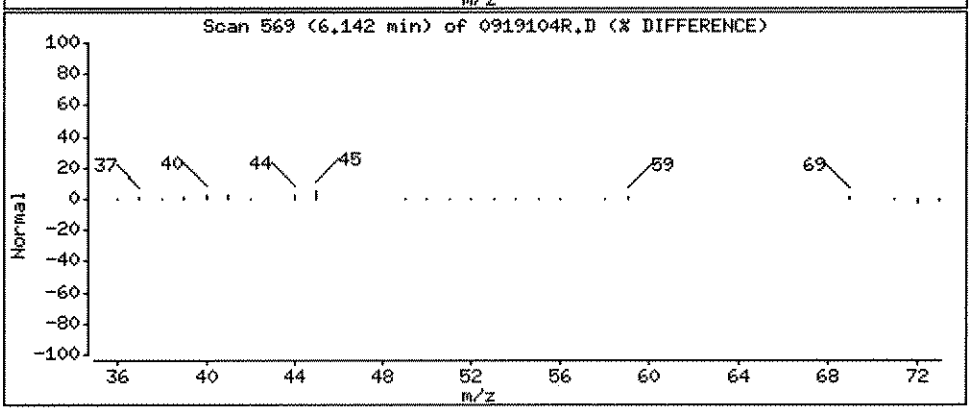
34 2-Butanone

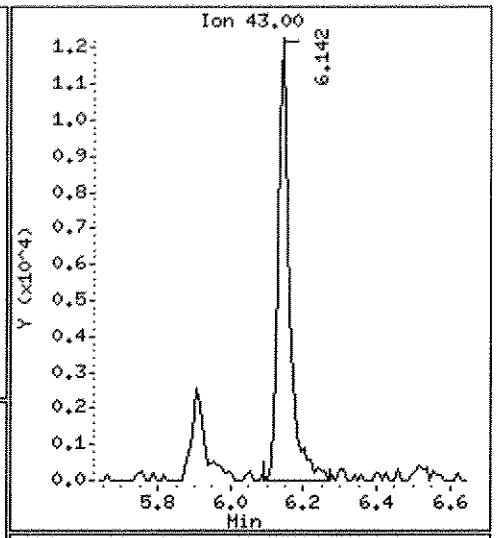
Concentration: 8.706 ug/Kg

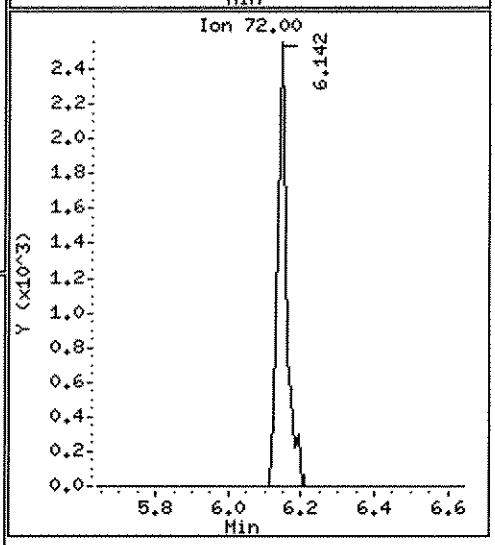












Data File: \\ELABNSH05\TARGET\chem\voa5.i\092811V5.b\0919104R.D

Date : 28-SEP-2011 14:53

Client ID:

Instrument: voa5.i

Sample Info: 1109191-04RE1;;;;;

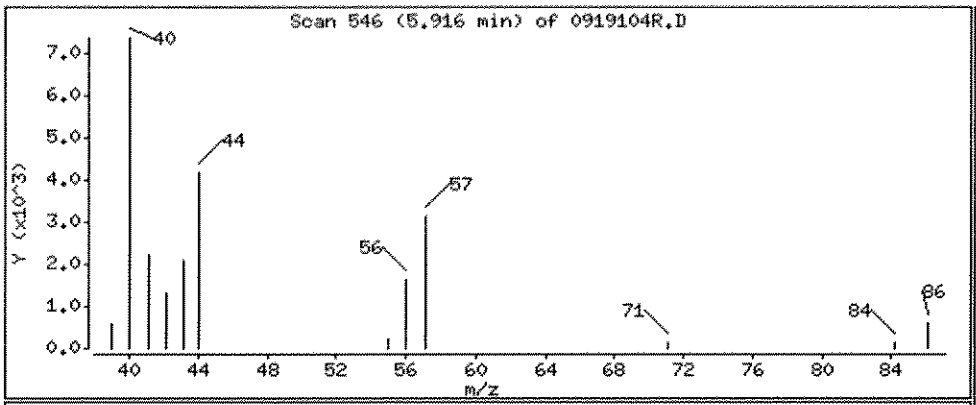
Operator: ADM

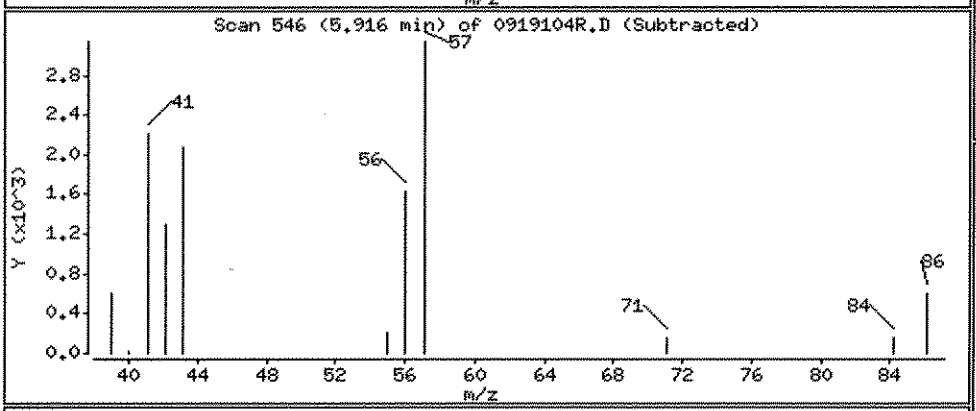
Column phase: RTX-VRX

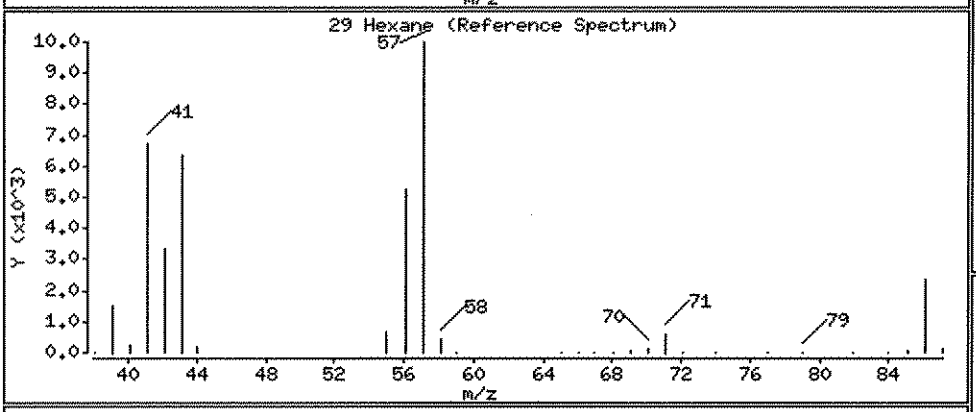
Column diameter: 0.25

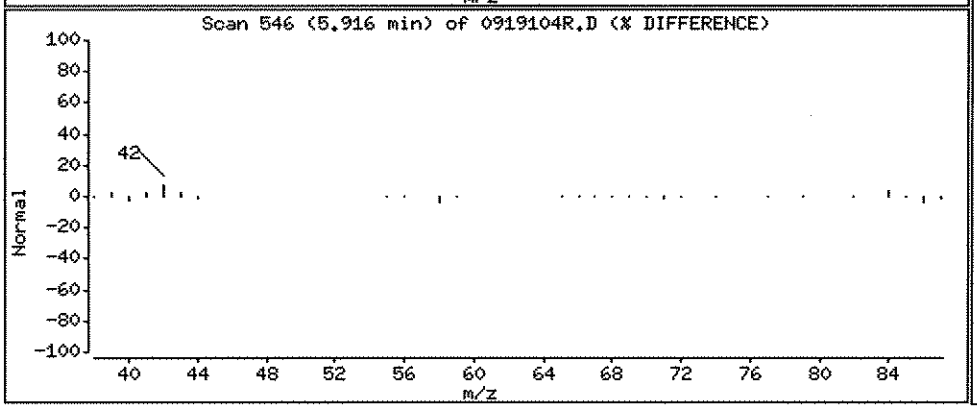
29 Hexane

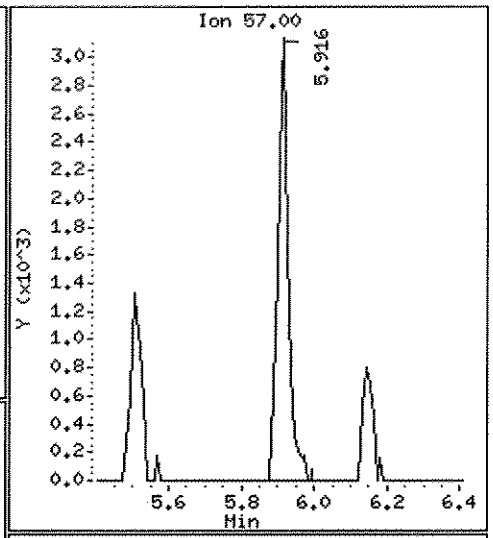
Concentration: 0.6358 ug/Kg

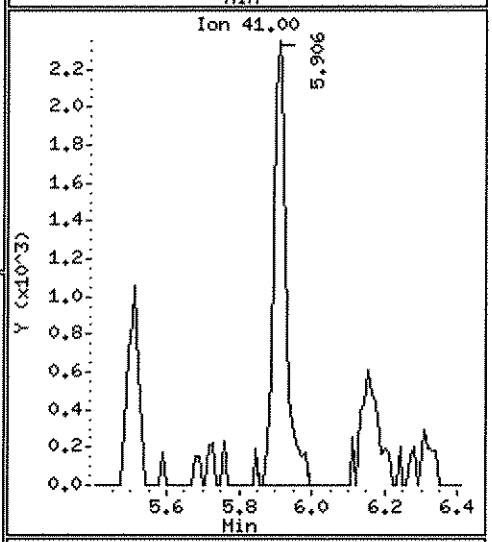


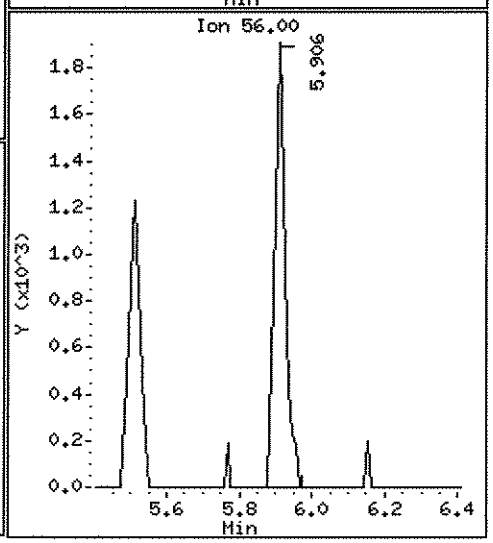












Data File: \\ELABNSH05\TARGET\chem\voa5.i\092811V5.b\0919104R.D

Date : 28-SEP-2011 14:53

Client ID:

Instrument: voa5.i

Sample Info: 1109191-04RE1;;;;;

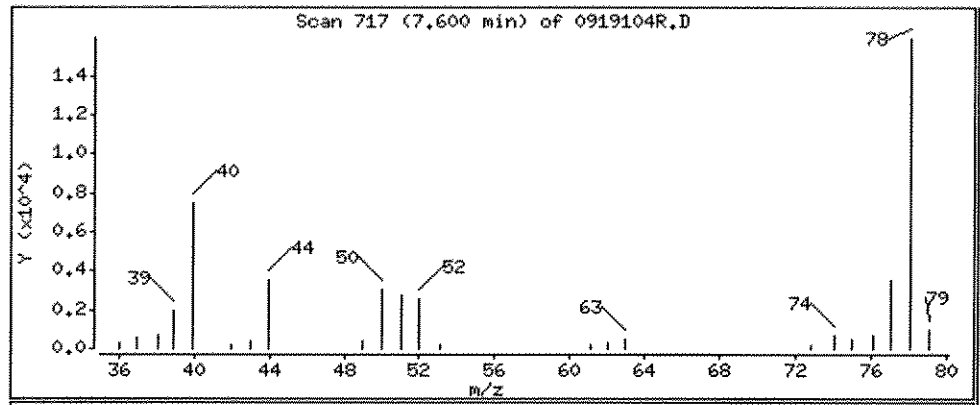
Operator: ADM

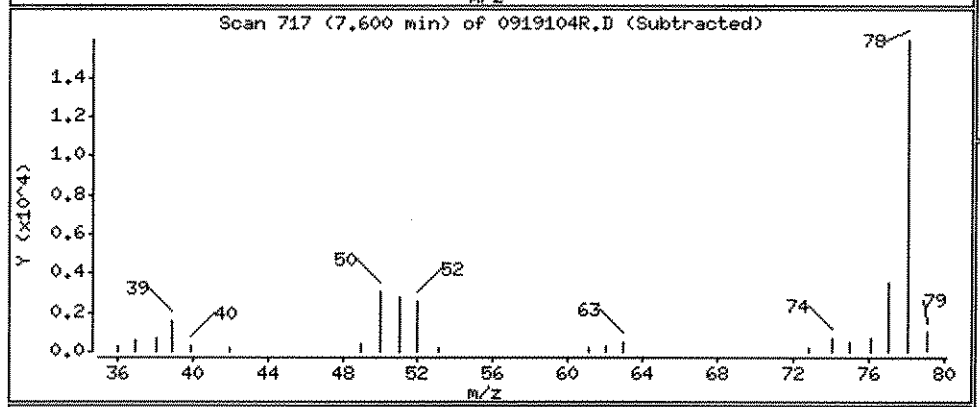
Column phase: RTX-VRX

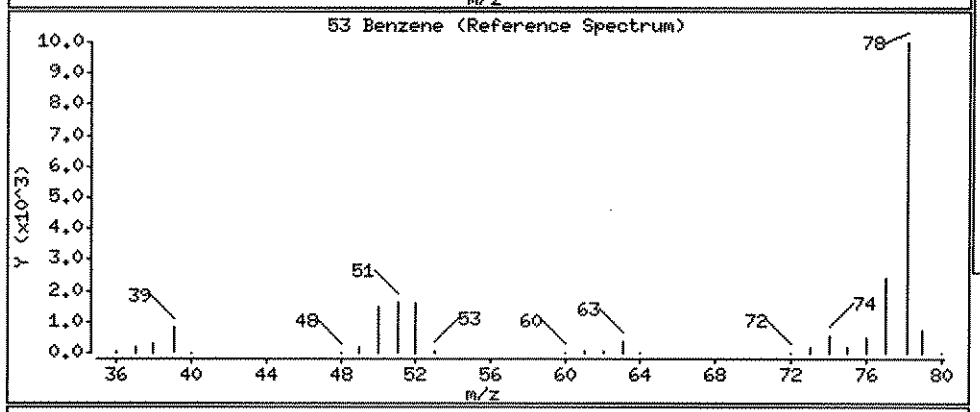
Column diameter: 0.25

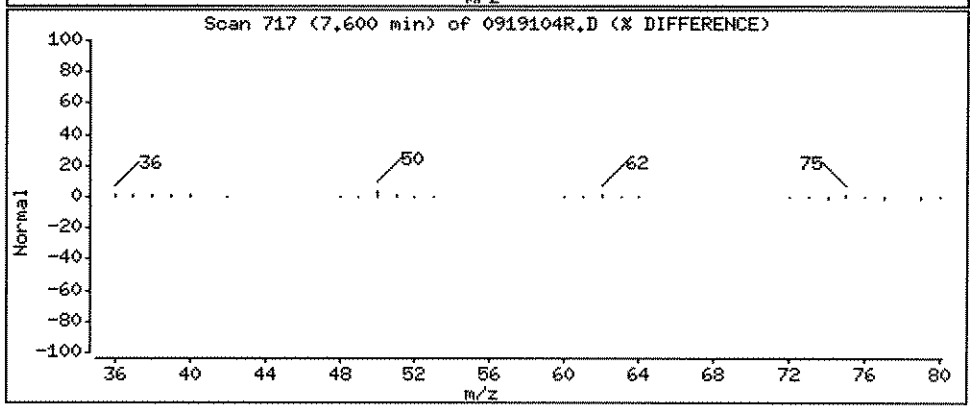
53 Benzene

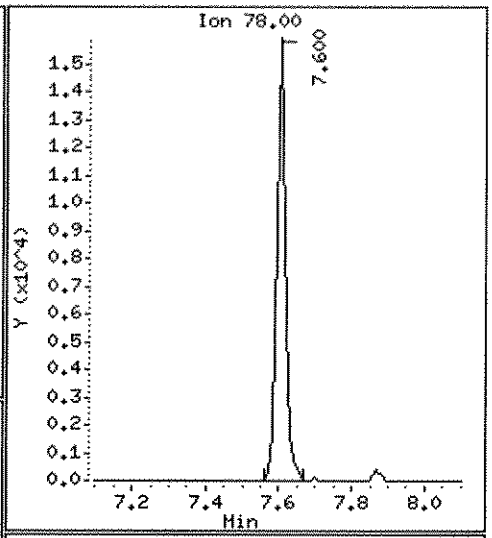
Concentration: 1.222 ug/Kg

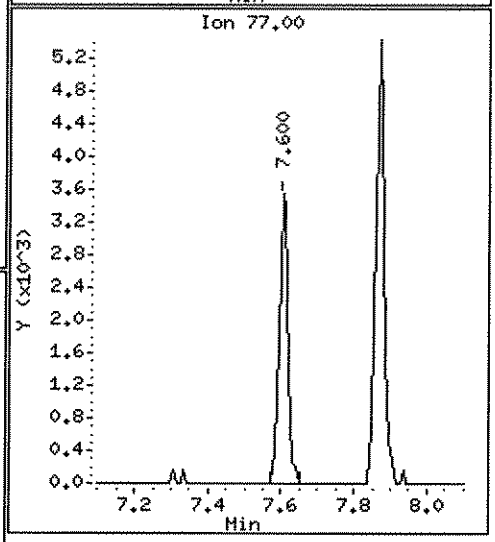












Data File: \\ELABNSH05\TARGET\chem\voa5.i\092811V5.b\0919104R.D

Date : 28-SEP-2011 14:53

Client ID:

Instrument: voa5.i

Sample Info: 1109191-04RE1;;;;;

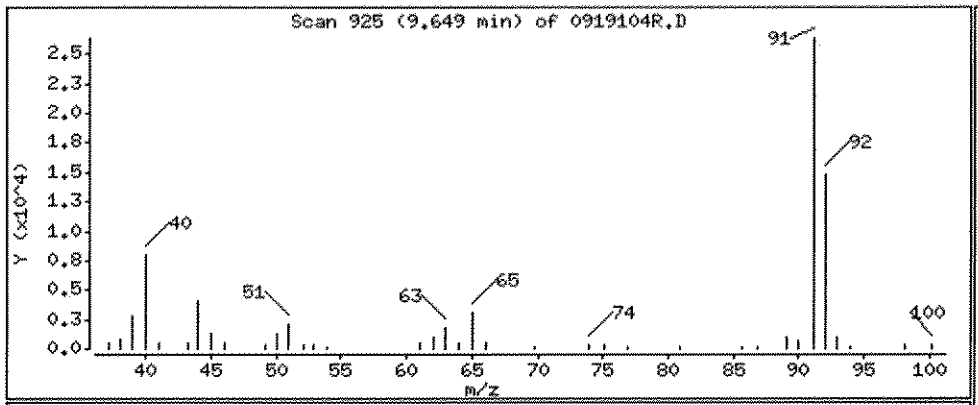
Operator: ADM

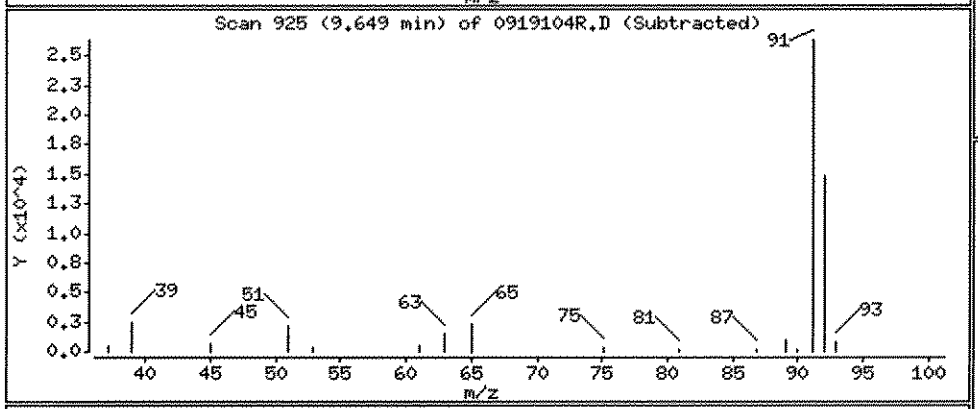
Column phase: RTX-VRX

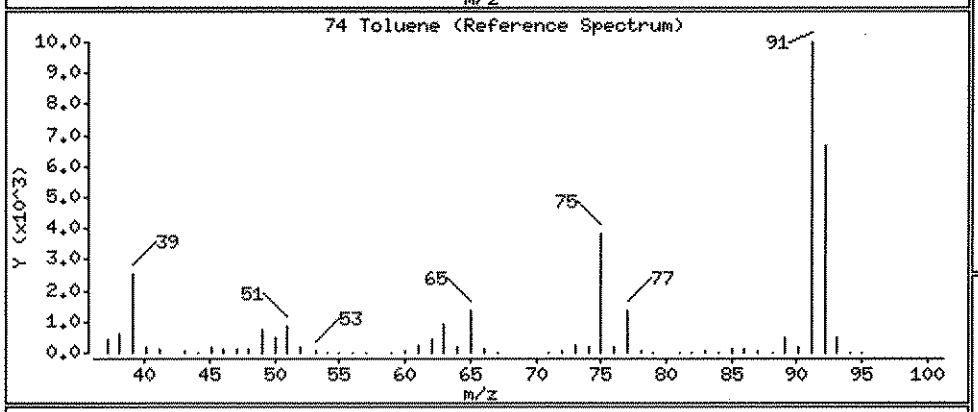
Column diameter: 0.25

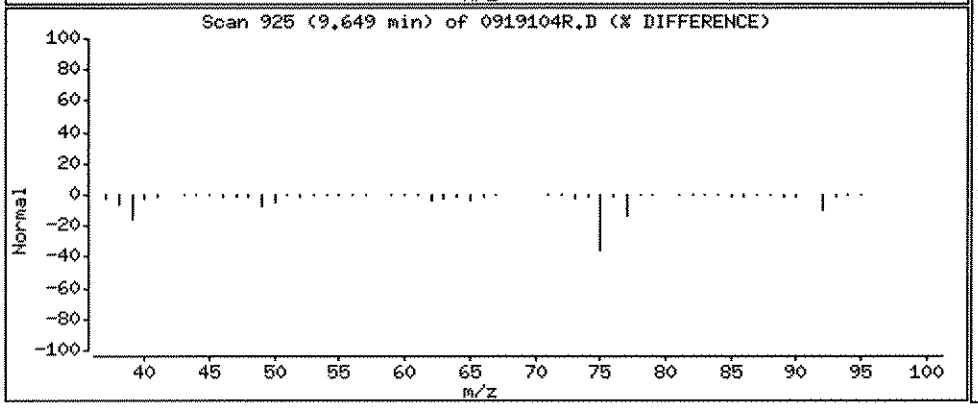
74 Toluene

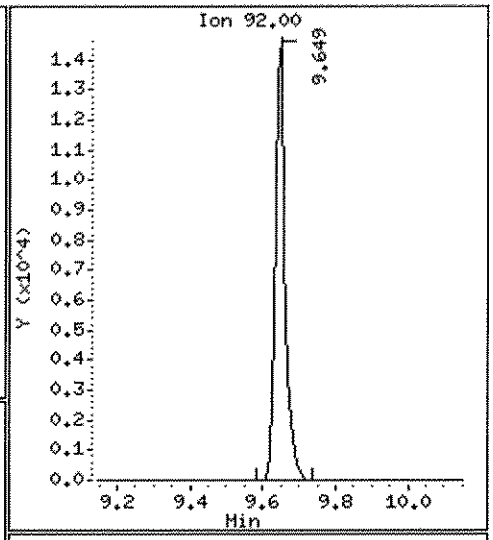
Concentration: 2.831 ug/Kg

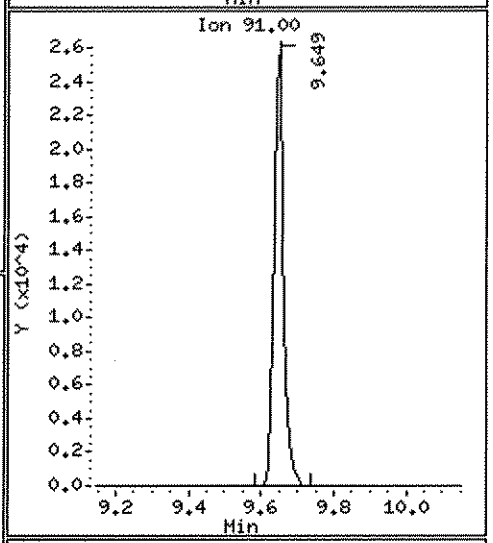


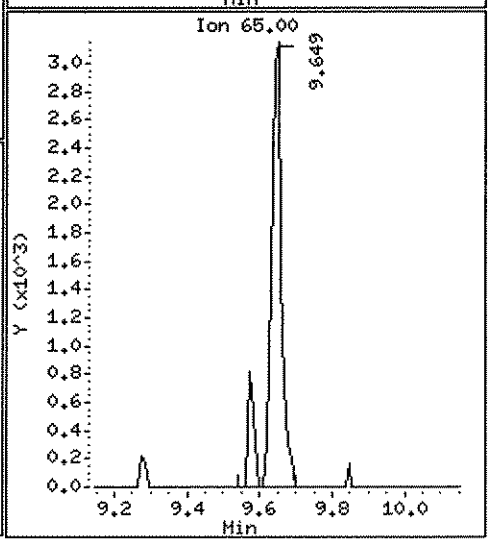












Data File: \\ELABNSH05\TARGET\chem\voa5.i\092811V5.b\0919104R.D

Date : 28-SEP-2011 14:53

Client ID:

Instrument: voa5.i

Sample Info: 1109191-04RE1;;;;;

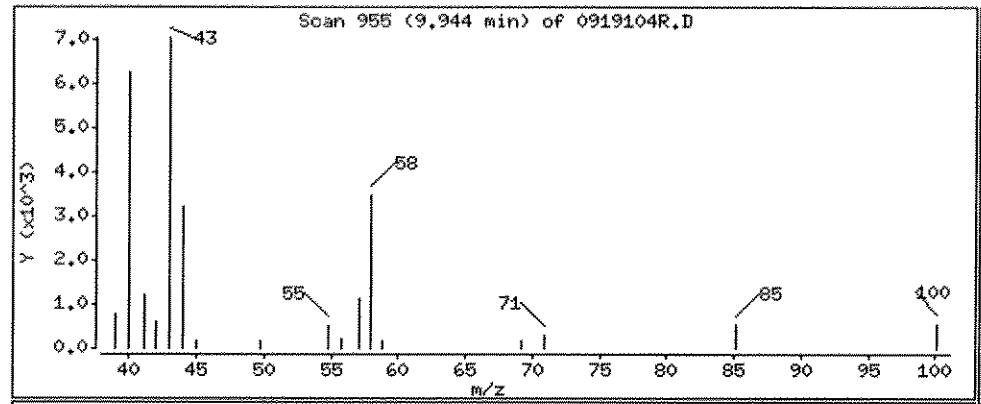
Operator: ADM

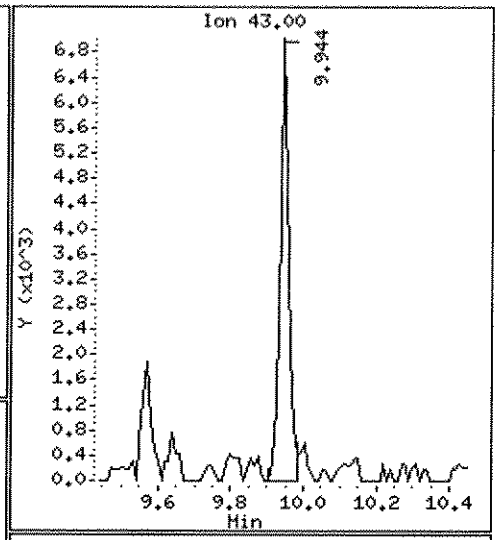
Column phase: RTX-VRX

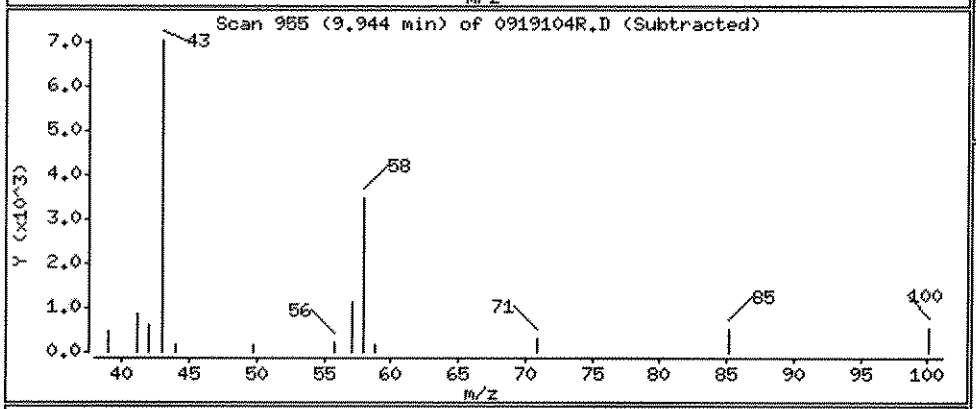
Column diameter: 0.25

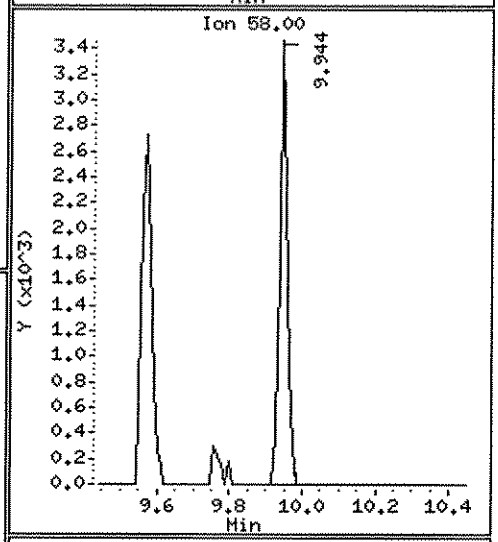
77 2-Hexanone

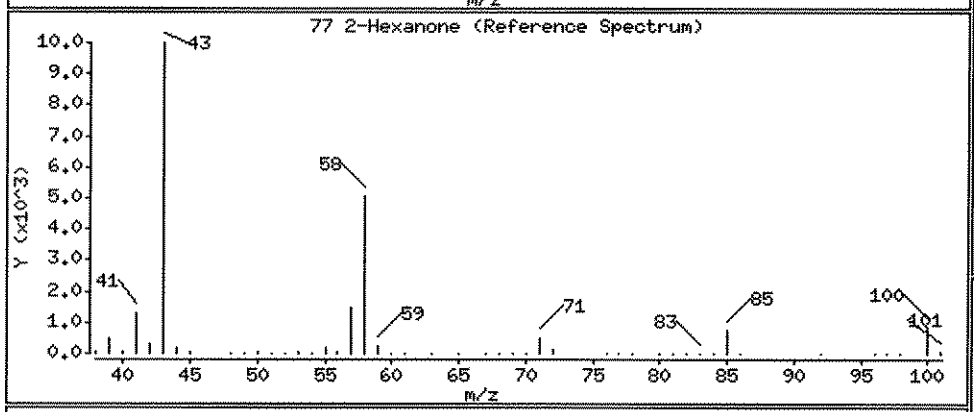
Concentration: 3.799 ug/Kg

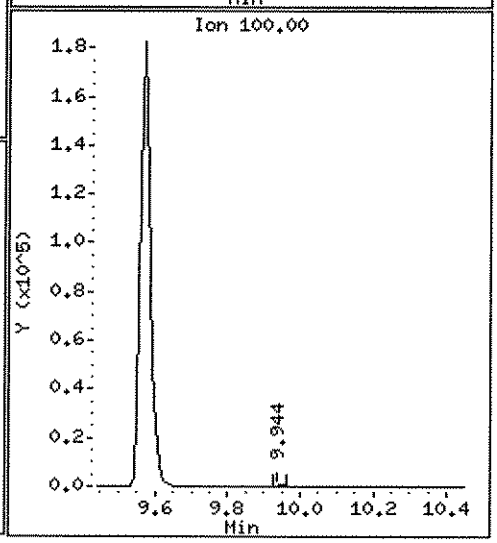


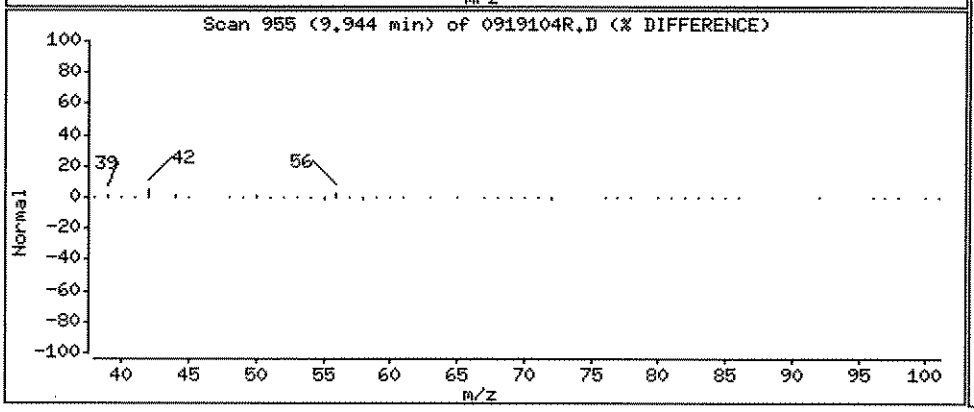












Data File: \\ELABNSHO5\TARGET\chem\voa5.i\092811V5.b\0919104R.D

Date : 28-SEP-2011 14:53

Client ID:

Instrument: voa5.i

Sample Info: 1109191-04RE1;;;;;

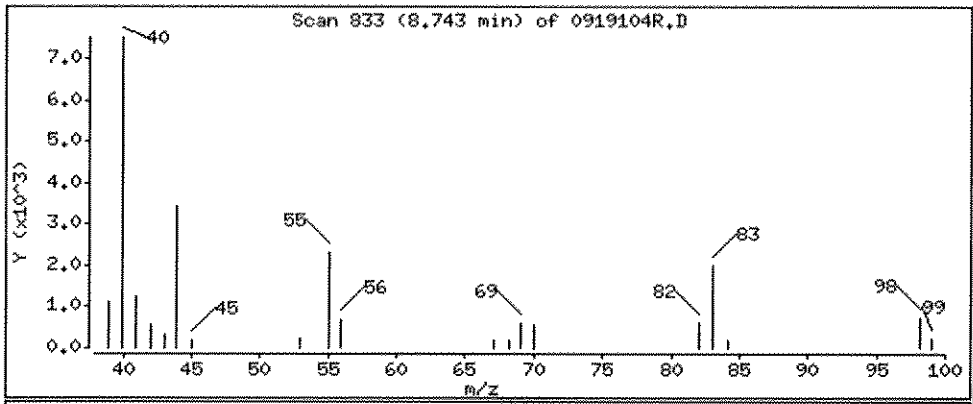
Operator: ADM

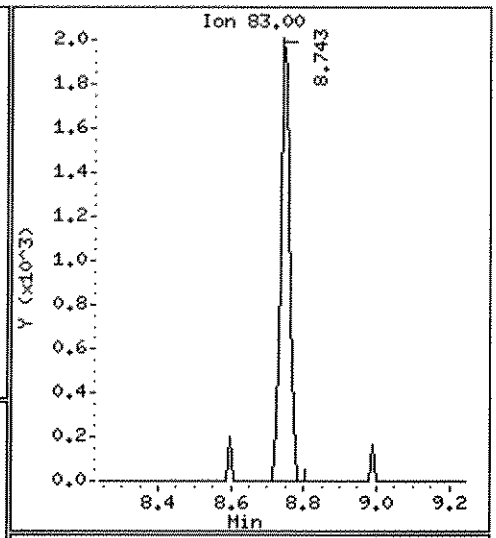
Column phase: RTX-VRX

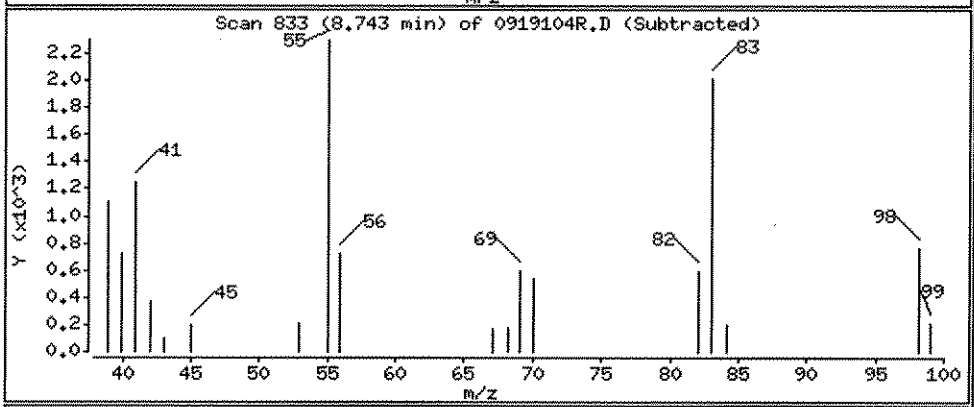
Column diameter: 0.25

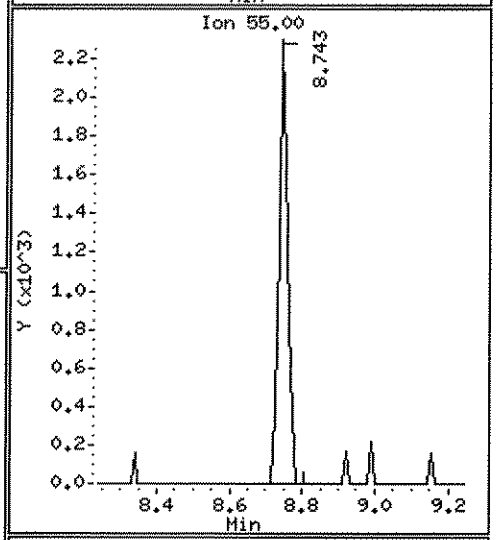
63 Methyl cyclohexane

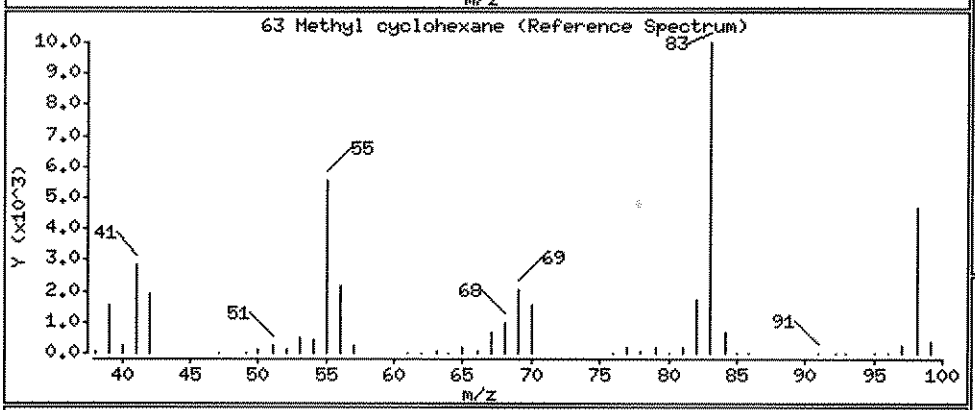
Concentration: 0.3813 ug/Kg

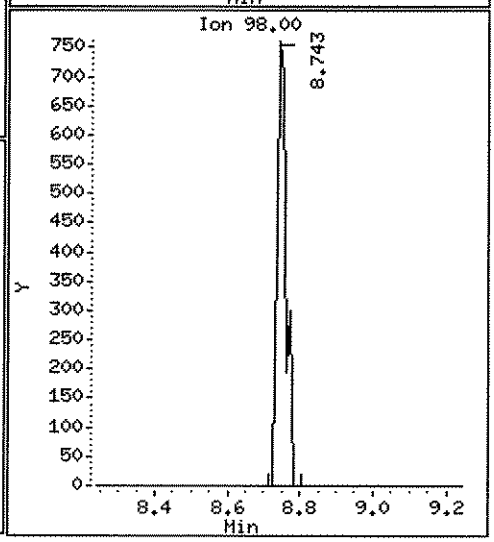


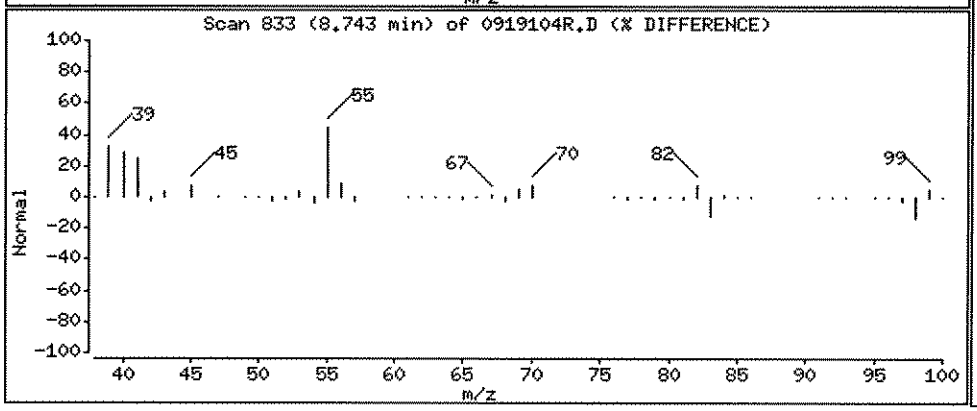












Data File: \\ELABNSH05\TARGET\chem\voa5.i\092811V5.b\0919104R.D

Date : 28-SEP-2011 14:53

Client ID:

Instrument: voa5.i

Sample Info: 1109191-04RE1;;;;;

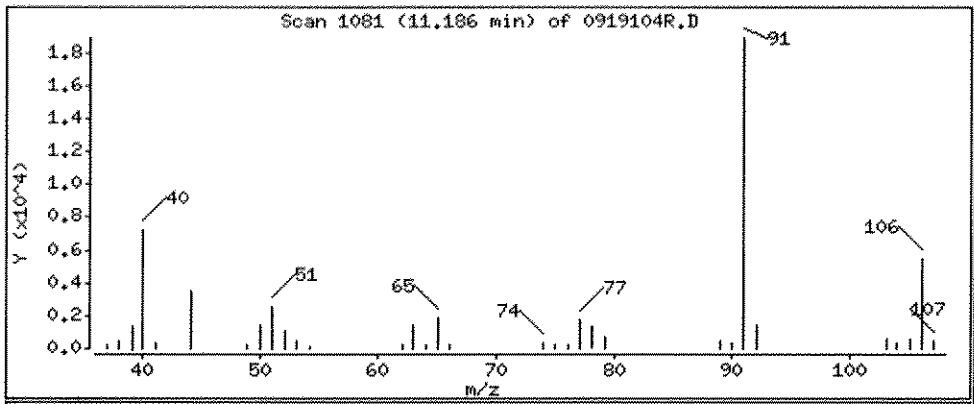
Operator: ADM

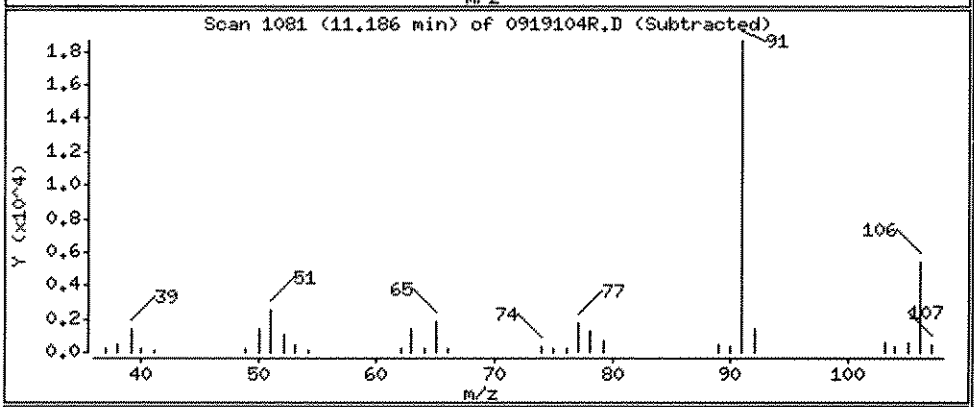
Column phase: RTX-VRX

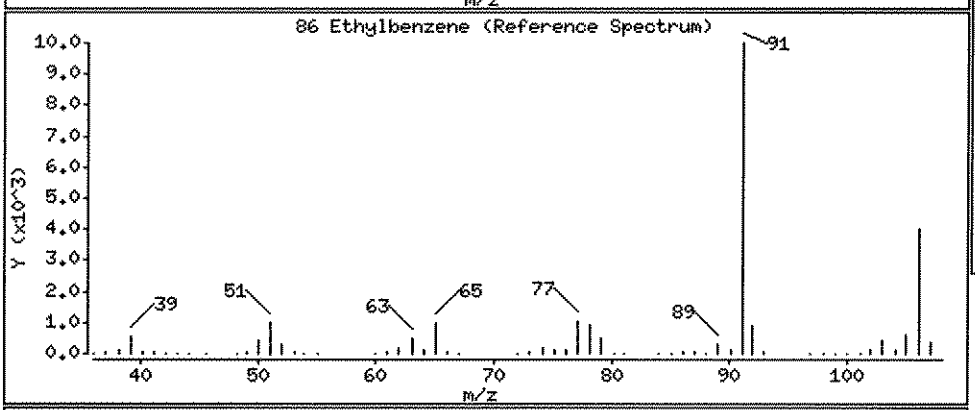
Column diameter: 0.25

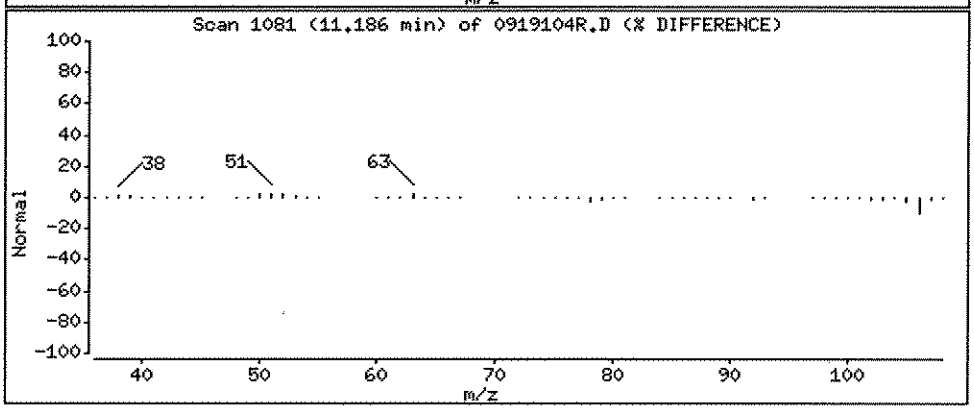
86 Ethylbenzene

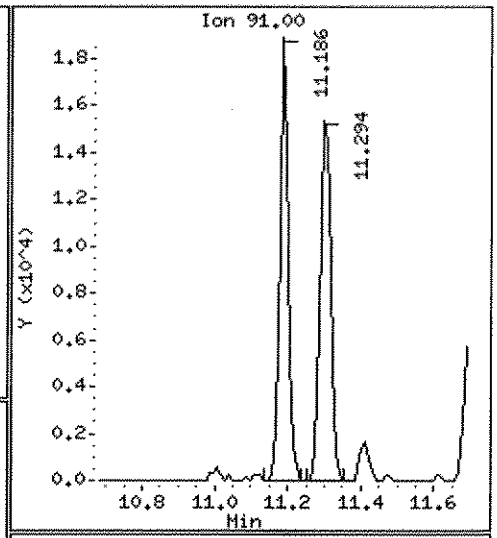
Concentration: 1.699 ug/Kg

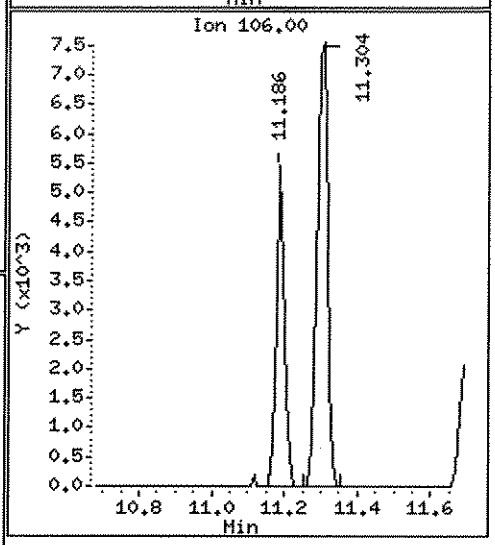












Data File: \\ELABNSH05\TARGET\chem\voa5.i\092811V5.b\0919104R.D

Date : 28-SEP-2011 14:53

Client ID:

Instrument: voa5.i

Sample Info: 1109191-04RE1;;;;;

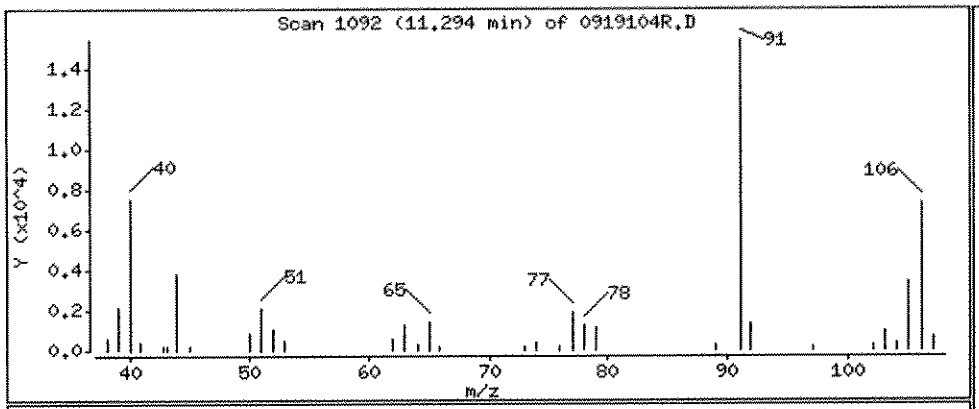
Operator: ADM

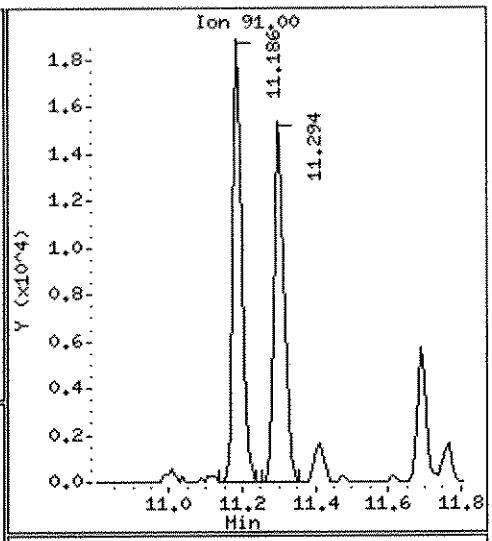
Column phase: RTX-VRX

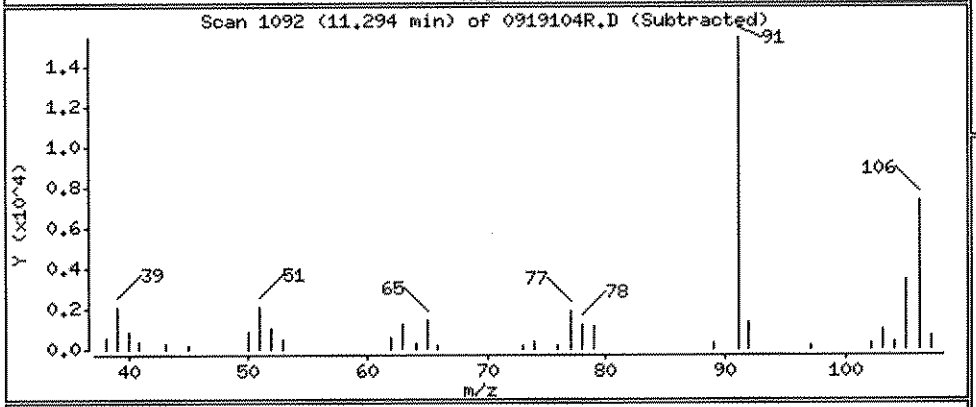
Column diameter: 0.25

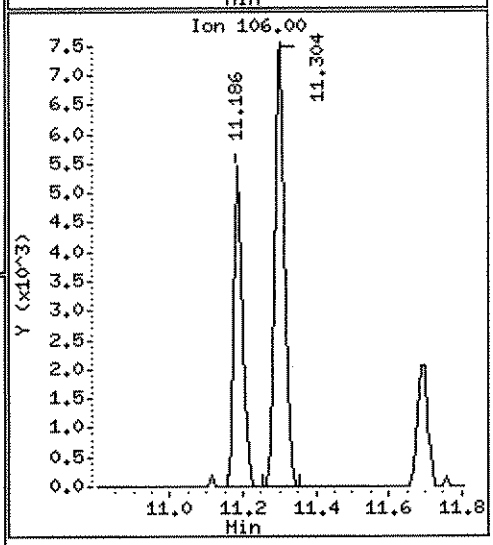
87 m,p-Xylene

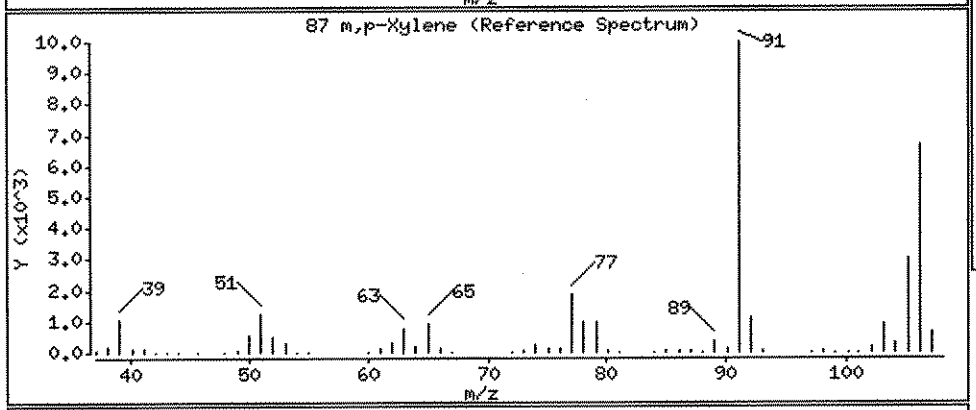
Concentration: 2.458 ug/Kg

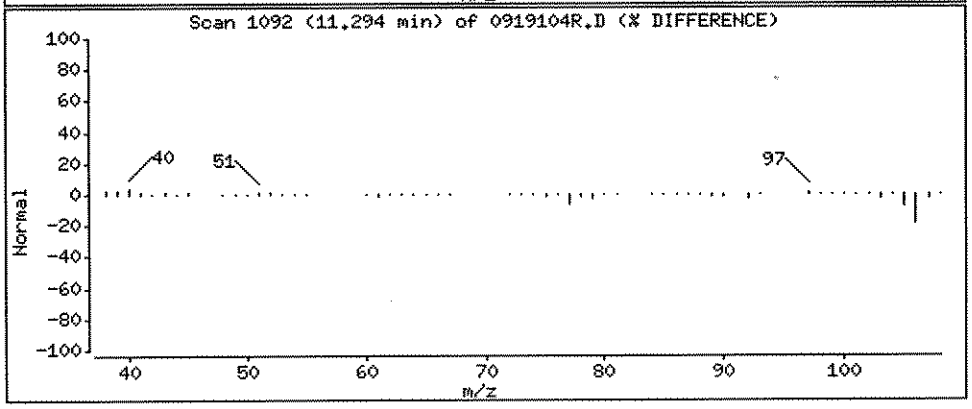












Data File: \\ELABNSH05\TARGET\chem\voa5.i\092811V5.b\0919104R.D

Date : 28-SEP-2011 14:53

Client ID:

Instrument: voa5.i

Sample Info: 1109191-04RE1;;;;;

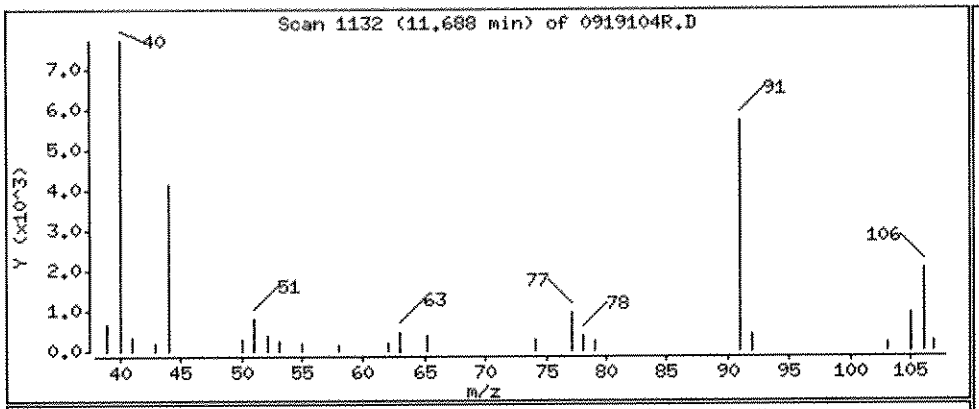
Operator: ADM

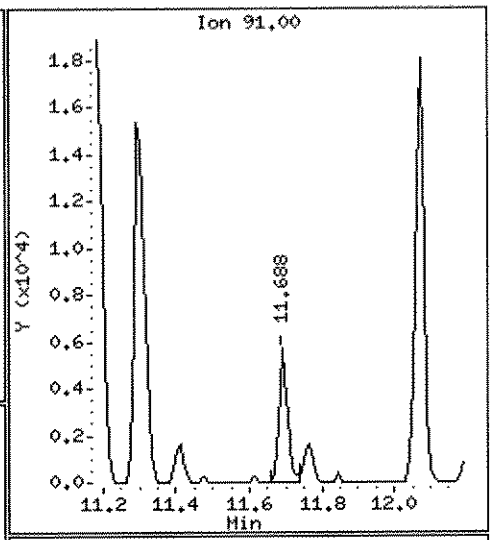
Column phase: RTX-VRX

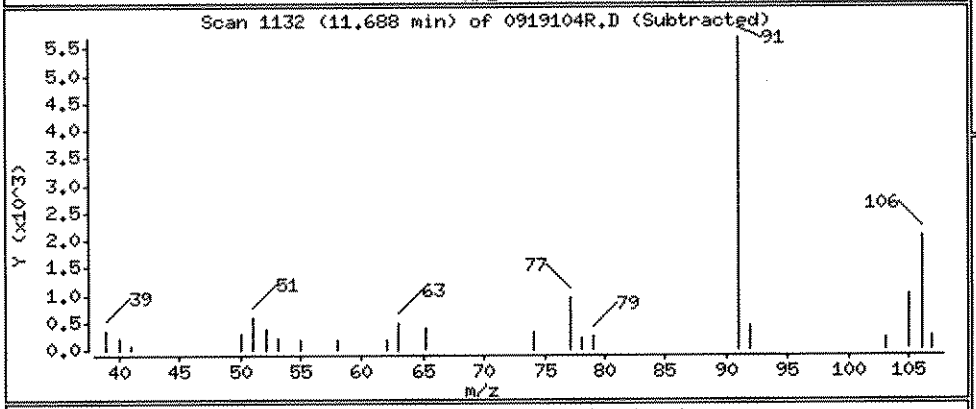
Column diameter: 0.25

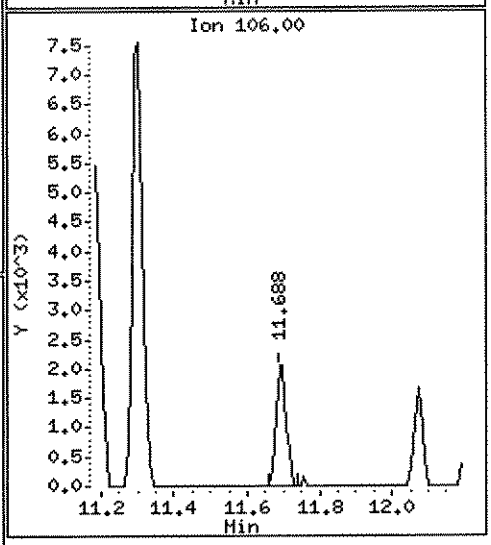
89 o-Xylene

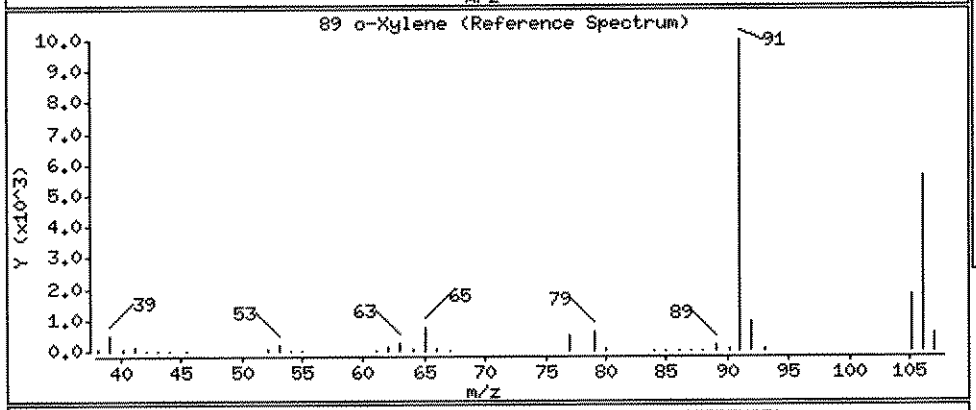
Concentration: 0.7469 ug/Kg

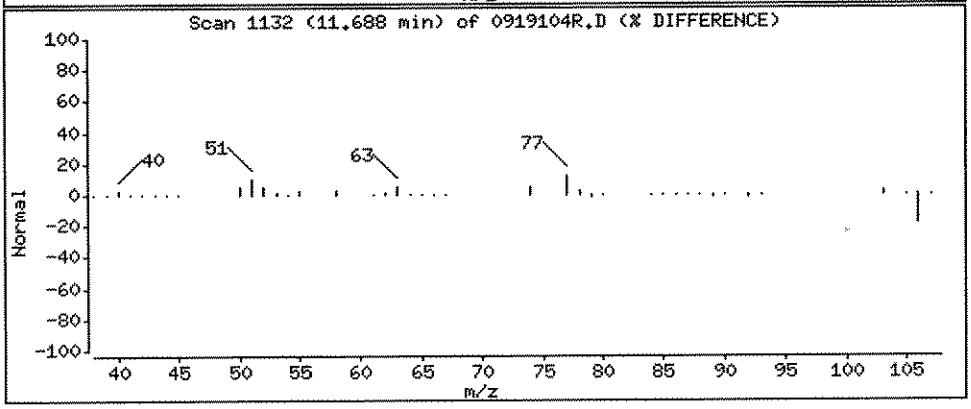












Data File: \\ELABNSH05\TARGET\chem\voa5.i\092811V5.b\0919104R.D

Date : 28-SEP-2011 14:53

Client ID:

Instrument: voa5.i

Sample Info: 1109191-04RE1;;;;;

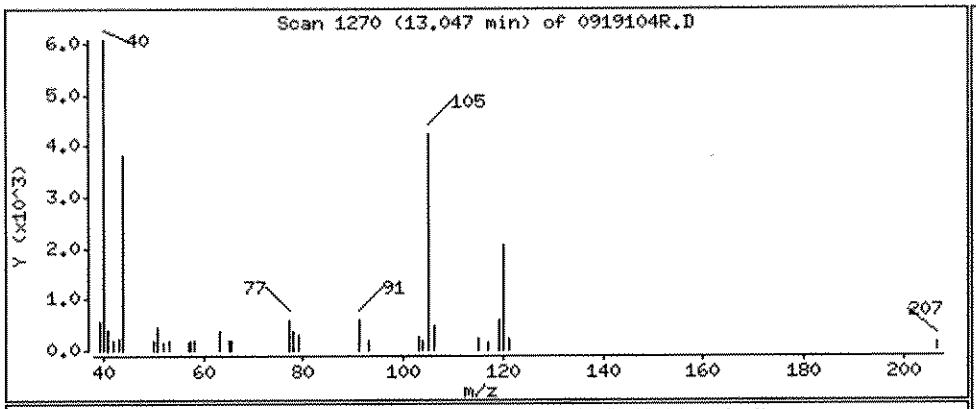
Operator: ADM

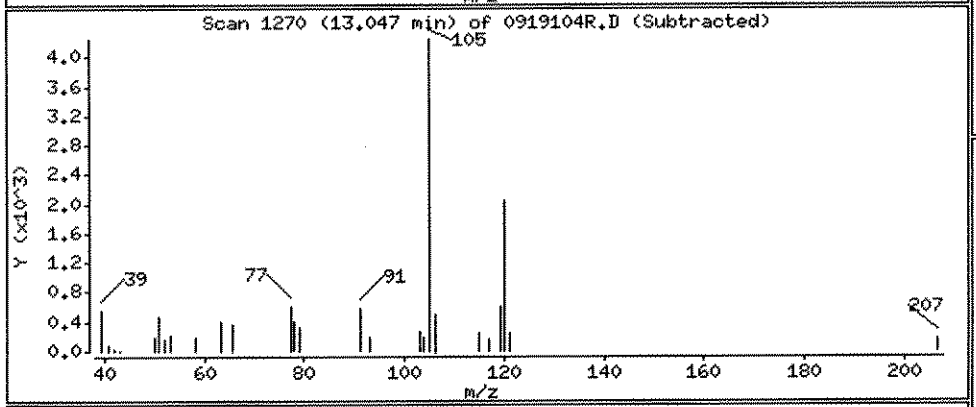
Column phase: RTX-VRX

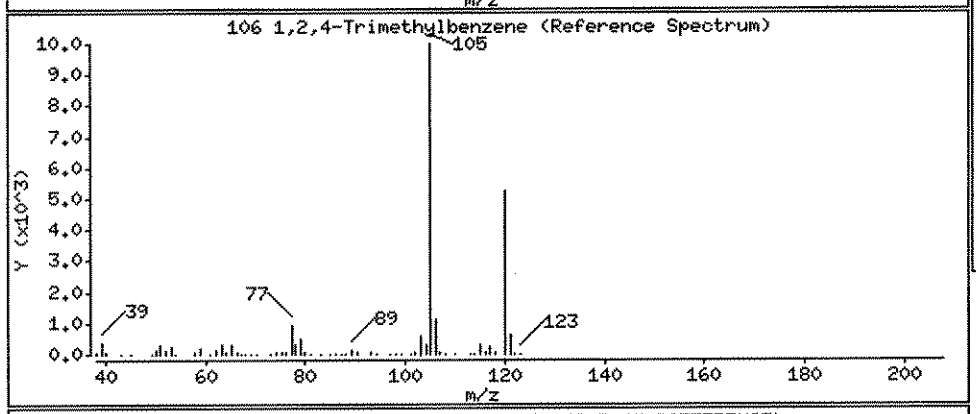
Column diameter: 0.25

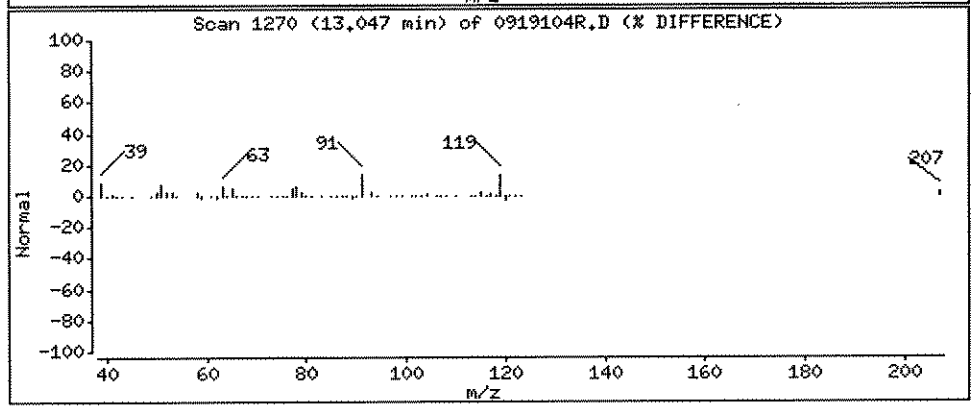
106 1,2,4-Trimethylbenzene

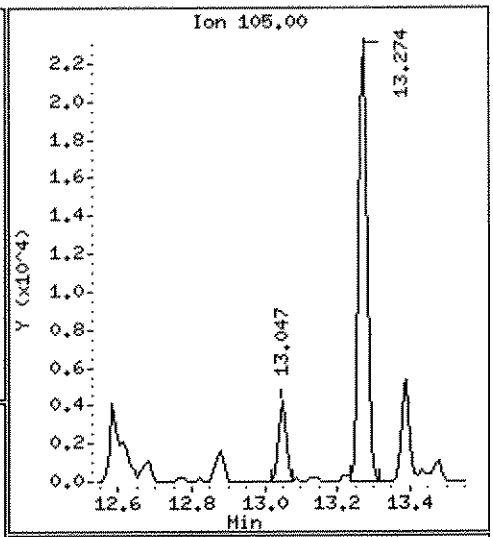
Concentration: 1.132 ug/Kg

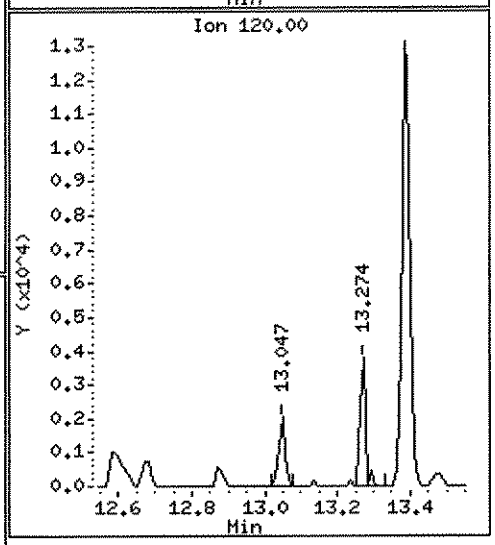












Data File: \\ELABNSH05\TARGET\chem\voa5.i\092811V5.b\0919104R.D

Date : 28-SEP-2011 14:53

Client ID:

Instrument: voa5.i

Sample Info: 1109191-04RE1;;;;;

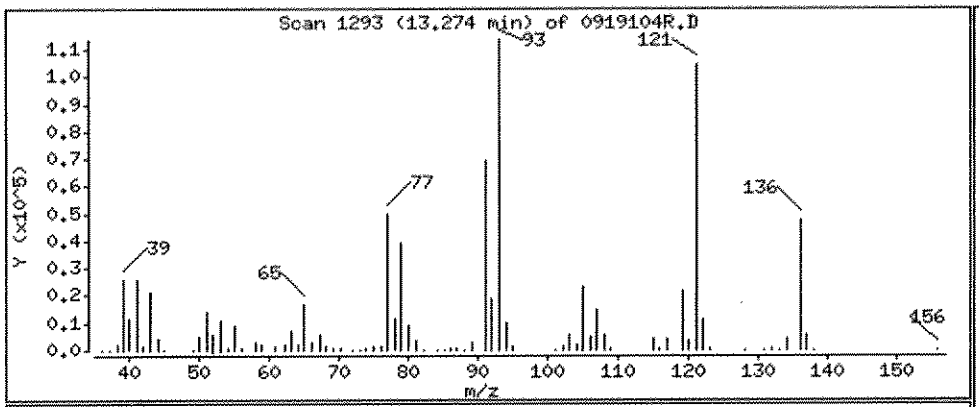
Operator: ADM

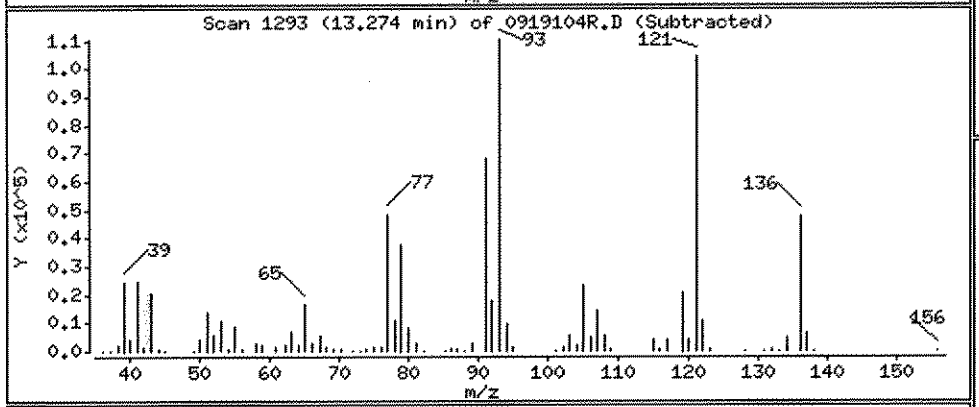
Column phase: RTX-VRX

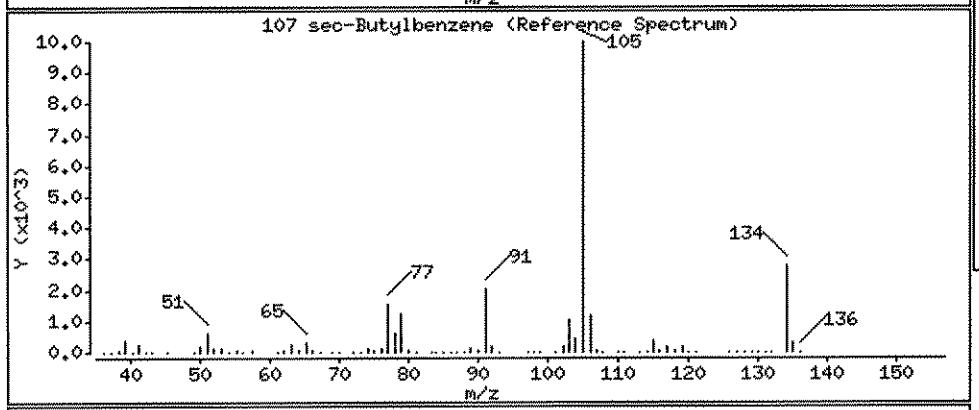
Column diameter: 0.25

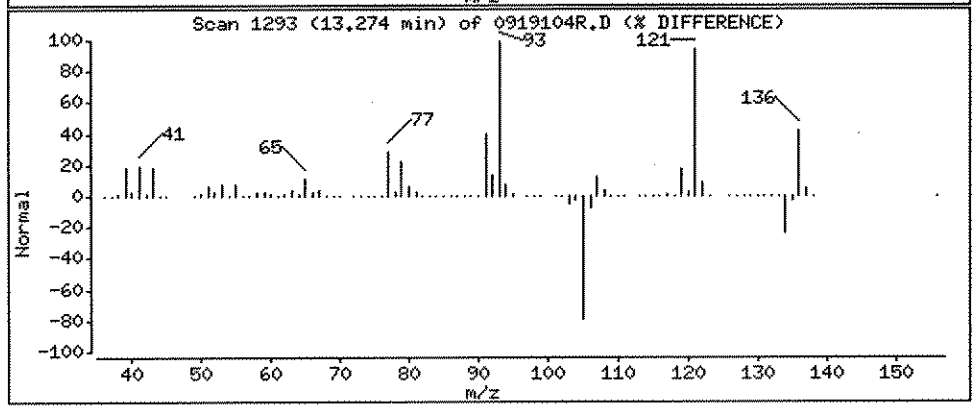
107 sec-Butylbenzene

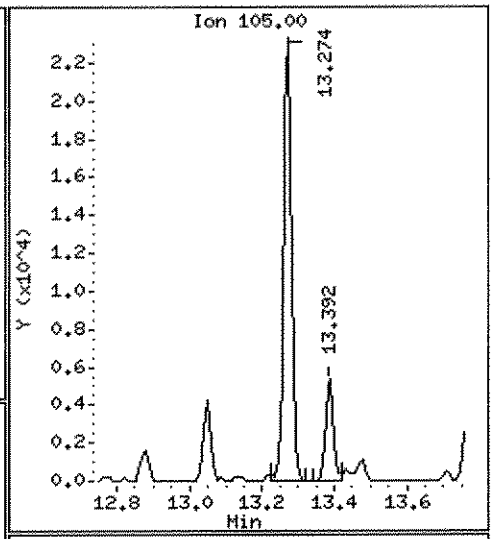
Concentration: 4.236 ug/Kg

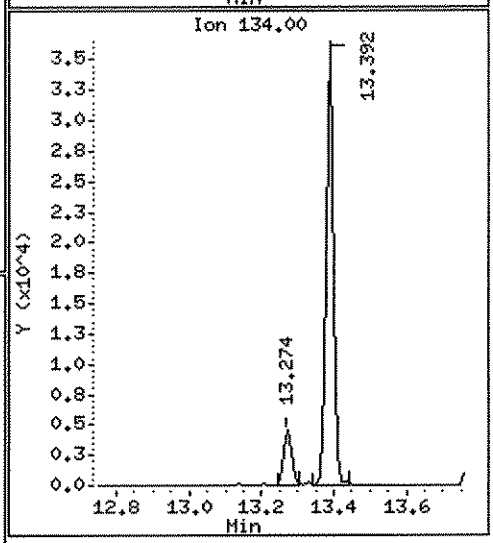












Data File: \\ELABNSH05\TARGET\chem\voa5.i\092811V5.b\0919104R.D

Date : 28-SEP-2011 14:53

Client ID:

Instrument: voa5.i

Sample Info: 1109191-04RE1;;;;;

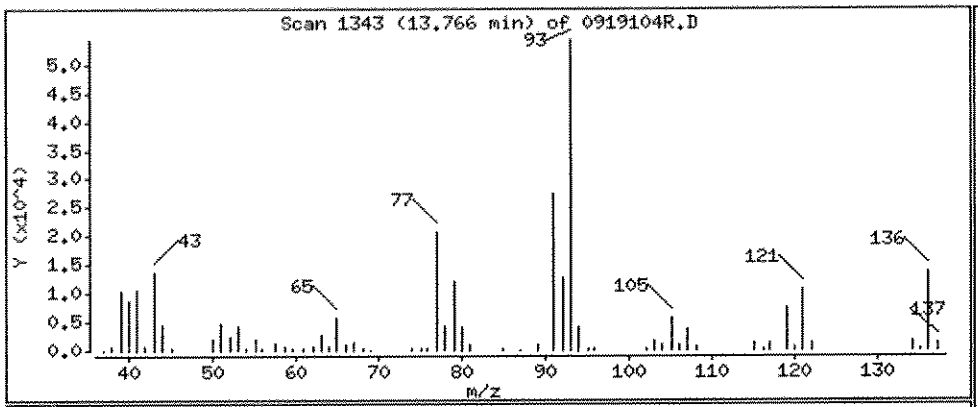
Operator: ADM

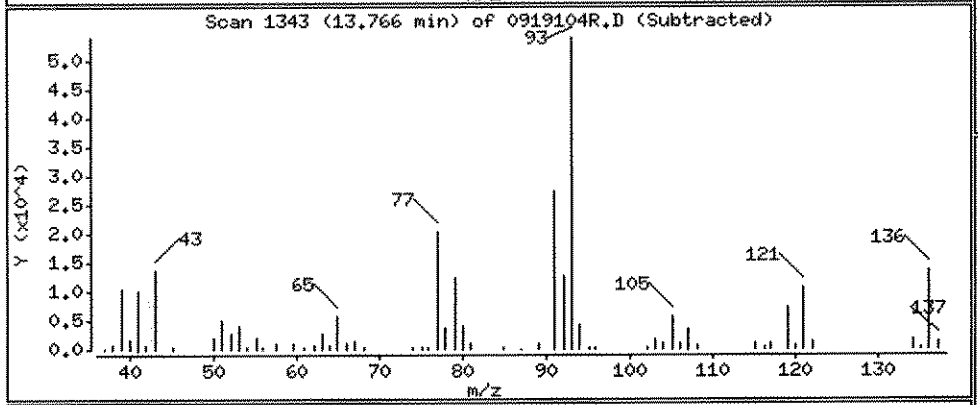
Column phase: RTX-VRX

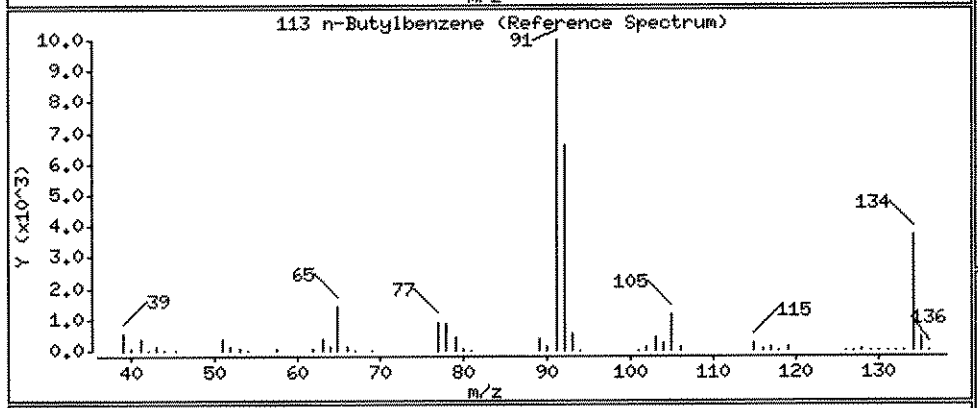
Column diameter: 0.25

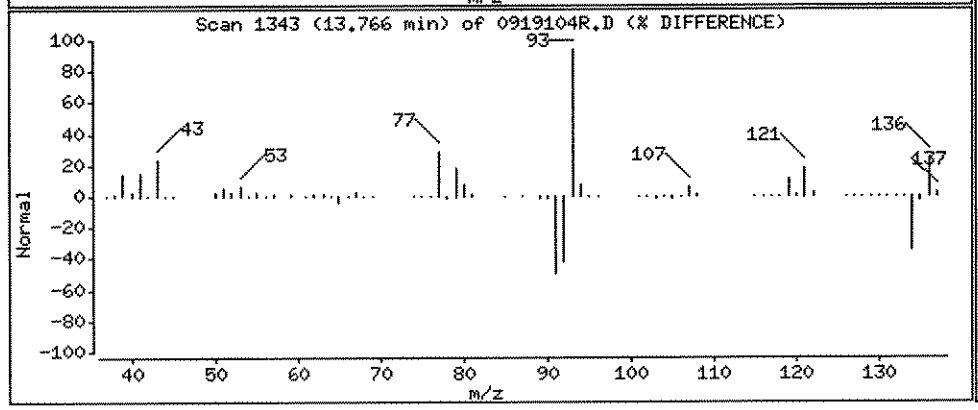
113 n-Butylbenzene

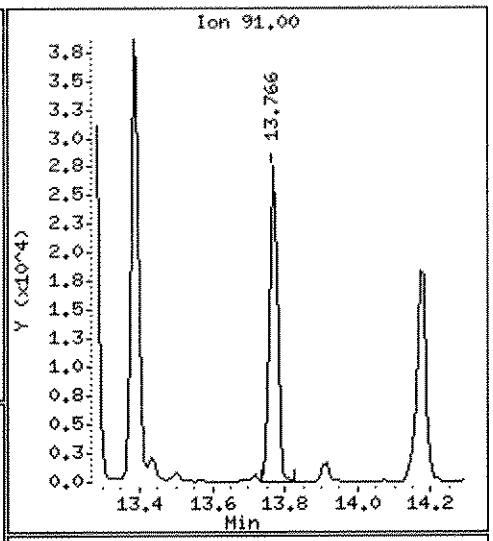
Concentration: 6.563 ug/Kg

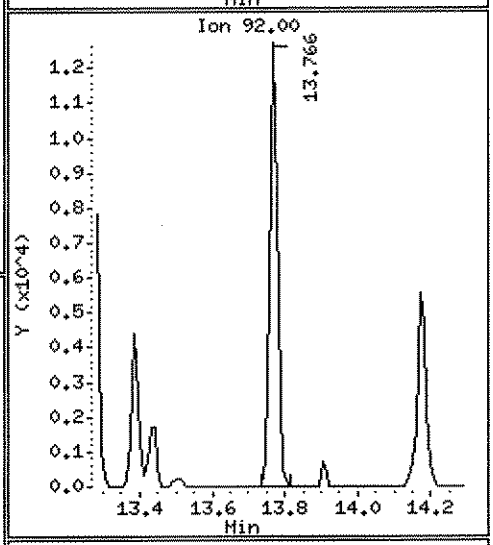


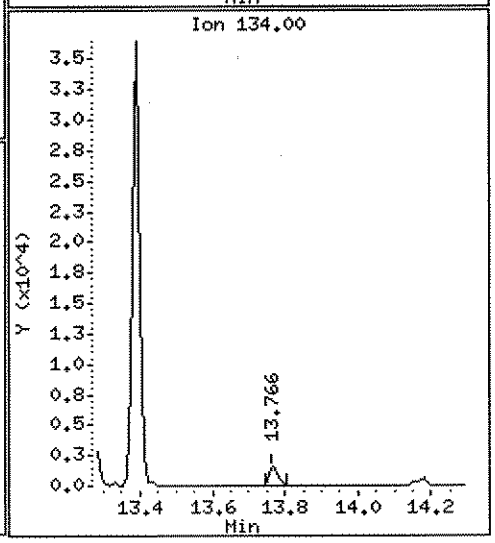












Data File: \\ELABNSH05\TARGET\chem\voa5.i\092811V5.b\0919104R.D

Date : 28-SEP-2011 14:53

Client ID:

Instrument: voa5.i

Sample Info: 1109191-04RE1;;;;;

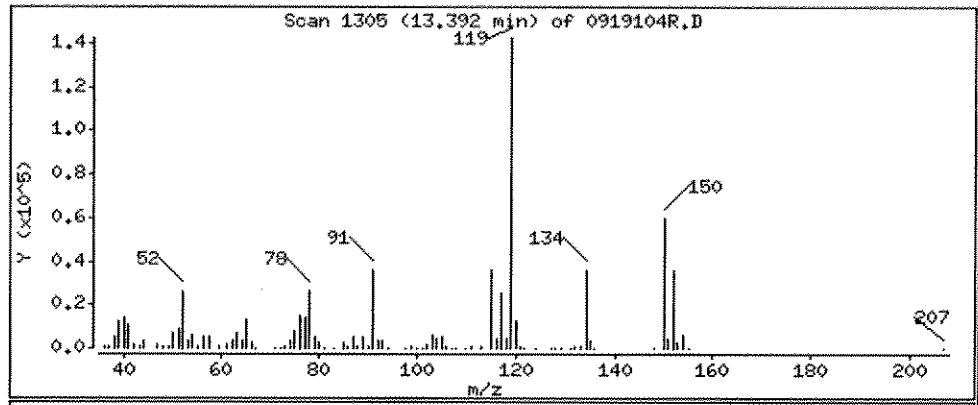
Operator: ADM

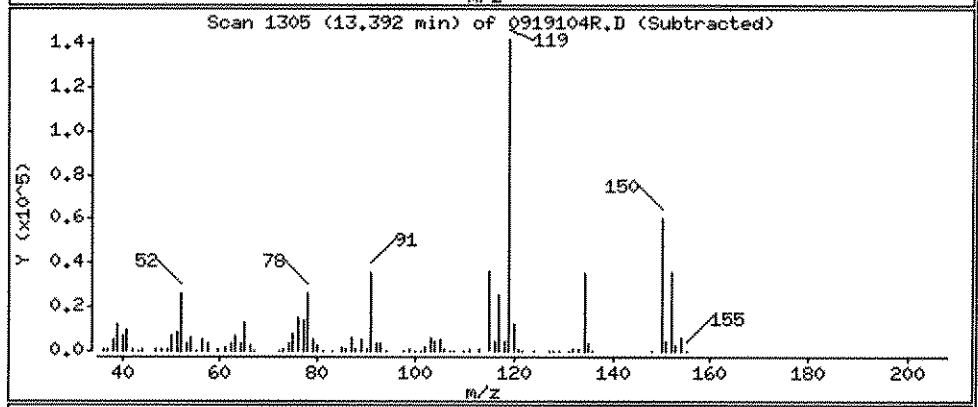
Column phase: RTX-VRX

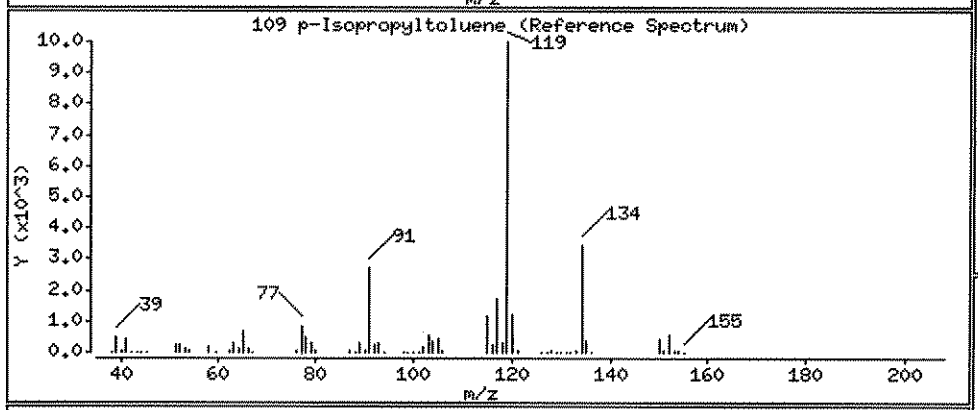
Column diameter: 0.25

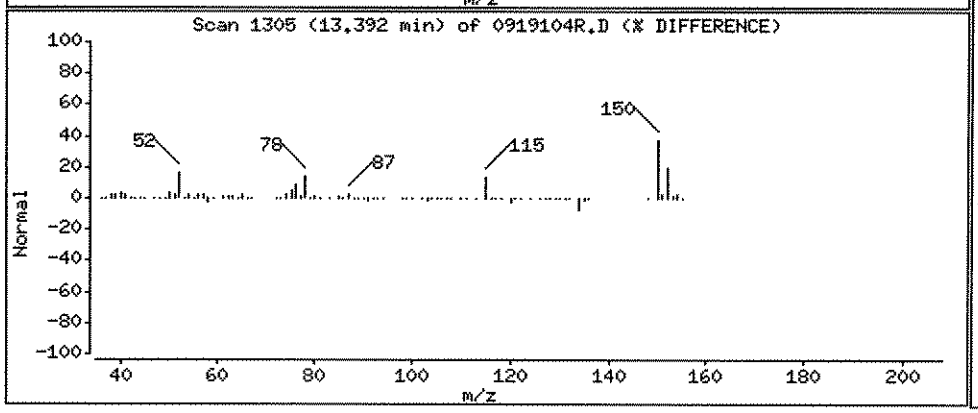
109 p-Isopropyltoluene

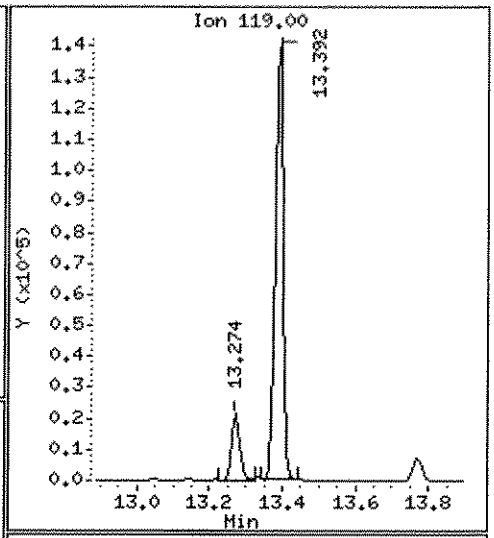
Concentration: 39.80 ug/Kg

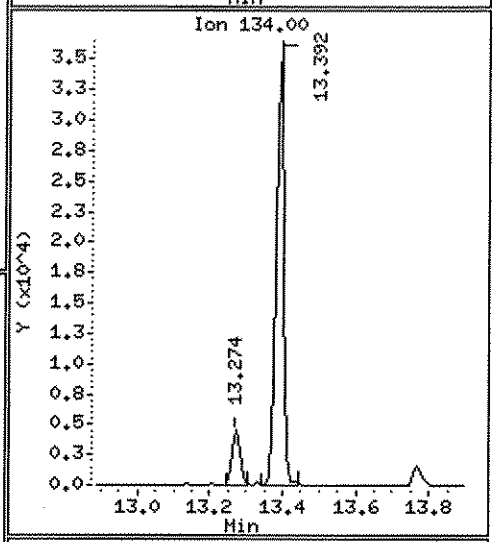


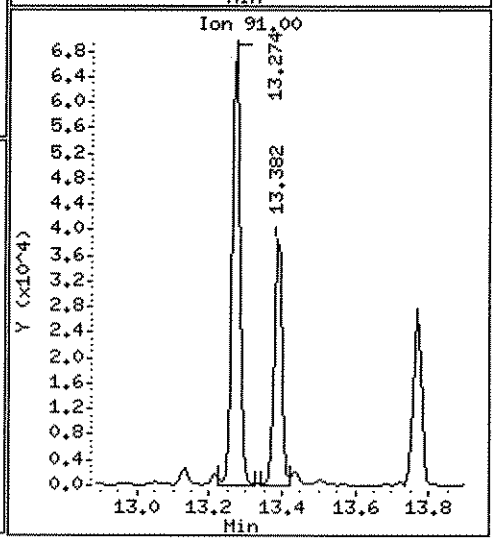












Data File: \\ELABNSH05\TARGET\chem\voa5.i\092811V5.b\0919105R.D
Report Date: 29-Sep-2011 05:59

Laboratory Name

Data file : \\ELABNSH05\TARGET\chem\voa5.i\092811V5.b\0919105R.D
Lab Smp Id: 1109191-05RE1
Inj Date : 28-SEP-2011 15:46 MS Autotune Date: 28-JUL-1998 05:19
Operator : ADM Inst ID: voa5.i
Smp Info : 1109191-05RE1;;;;;
Misc Info : ;;;;;8260.sub;
Comment :
Method : \\ELABNSH05\TARGET\chem\voa5.i\092811V5.b\VS5SUR.m
Meth Date : 29-Sep-2011 05:58 amonteiro Quant Type: ISTD
Cal Date : 22-SEP-2011 14:24 Cal File: 0922CAL1.D
Als bottle: 12
Dil Factor: 1.00000
Integrator: HP RTE Compound Sublist: 8260.sub
Target Version: 4.04
Processing Host: TARGET02_VM

Concentration Formula: Amt * DF * 5*Uf/(Ws*(Solids/100))

Name	Value	Description
DF	1.000	Dilution Factor
Uf	1.000	unit correction factor
Ws	5.000	Weight of sample extracted (g)
Solids	100.000	Percent Solids

MG 9/29/11

9-29-11

Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS ON-COLUMN (ug/Kg)	FINAL (ug/Kg)
* 55 Fluorobenzene	96	7.870	7.865	(1.000)	666022	30.0000	
10 Acetonitrile	41	3.773	3.757	(0.479)	26632	27.8152	27.82
9 Acetone	43	3.684	3.678	(0.468)	154532	75.1487	75.15
20 Methylene chloride	84	4.649	4.644	(0.591)	373717	48.2323	48.23
34 2-Butanone	43	6.147	6.141	(0.781)	37718	10.4243	10.42
29 Hexane	57	5.910	5.904	(0.751)	8226	0.70569	0.7057(a)
$ 44 Dibromofluoromethane	111	6.836	6.840	(0.869)	189527	33.2280	33.23
51 Cyclohexane	56	7.516	7.500	(0.955)	8084	0.62699	0.6270(a)
$ 48 1,2-Dichloroethane-d4	102	7.339	7.333	(0.932)	38757	33.0713	33.07
53 Benzene	78	7.605	7.599	(0.966)	40658	1.58601	1.586
$ 71 Toluene-d8	98	9.565	9.569	(0.869)	571447	30.9213	30.92
74 Toluene	92	9.643	9.647	(0.876)	54287	4.07058	4.070
* 82 Chlorobenzene-d5	82	11.003	10.997	(1.000)	281242	30.0000	
86 Ethylbenzene	91	11.190	11.184	(1.017)	46189	1.89102	1.891
87 m,p-Xylene	91	11.298	11.302	(1.027)	54554	3.22919	3.229

Data File: \\ELABNSH05\TARGET\chem\voa5.i\092811V5.b\0919105R.D
Report Date: 29-Sep-2011 05:59

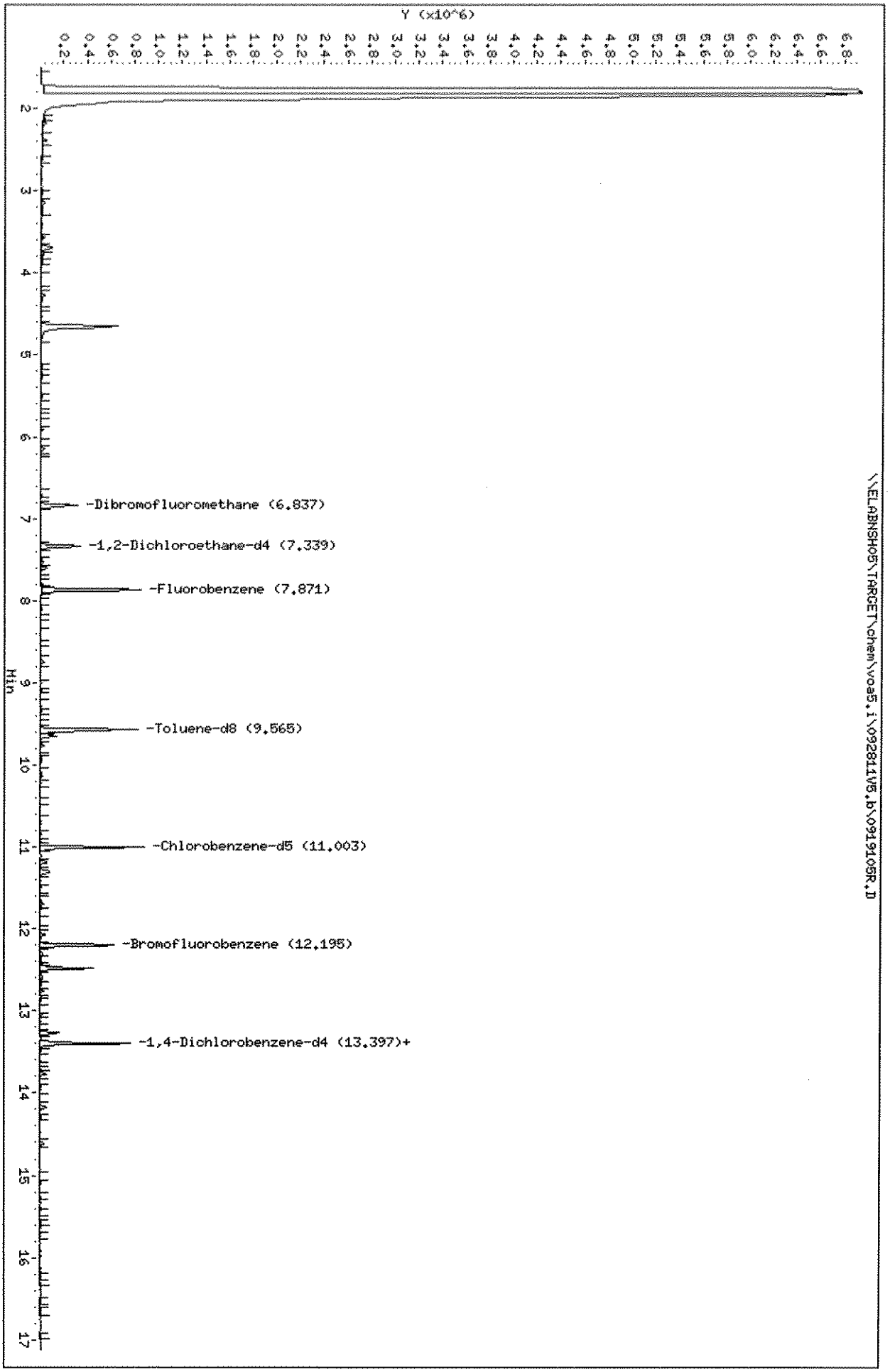
Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS ON-COLUMN (ug/Kg)	FINAL (ug/Kg)
M 119 Xylene(total)	91				74652	4.37938	4.379
89 o-Xylene	91	11.692	11.686	(1.063)	20098	1.15018	1.150
$ 97 Bromofluorobenzene	95	12.195	12.199	(1.108)	228694	29.3225	29.32
102 1,3,5-Trimethylbenzene	105	12.677	12.671	(0.946)	4919	0.40959	0.4096(a)
106 1,2,4-Trimethylbenzene	105	13.052	13.046	(0.974)	13169	1.18484	1.185
* 110 1,4-Dichlorobenzene-d4	152	13.396	13.400	(1.000)	157726	30.0000	(Q)
113 n-Butylbenzene	91	13.771	13.785	(1.028)	10185	0.87281	0.8728(a)
109 p-Isopropyltoluene	119	13.387	13.391	(0.999)	68855	6.38756	6.388

QC Flag Legend

a - Target compound detected but, quantitated amount Below Limit Of Quantitation(BLOQ).
Q - Qualifier signal failed the ratio test.

Data File: \\ELABNSHO5\TARGET\chem\voa5.i\092811V5.b\091910SR.D
Date : 28-SEP-2011 15:46
Client ID:
Sample Info: 1109191-05RE1;;;;;
Column phase: RTX-VRX

Instrument: voa5.i
Operator: ADM
Column diameter: 0.25



Data File: \\ELABNSH05\TARGET\chem\voa5.i\092811V5.b\0919105R.D

Date : 28-SEP-2011 15:46

Client ID:

Instrument: voa5.i

Sample Info: 1109191-05RE1;;;;;

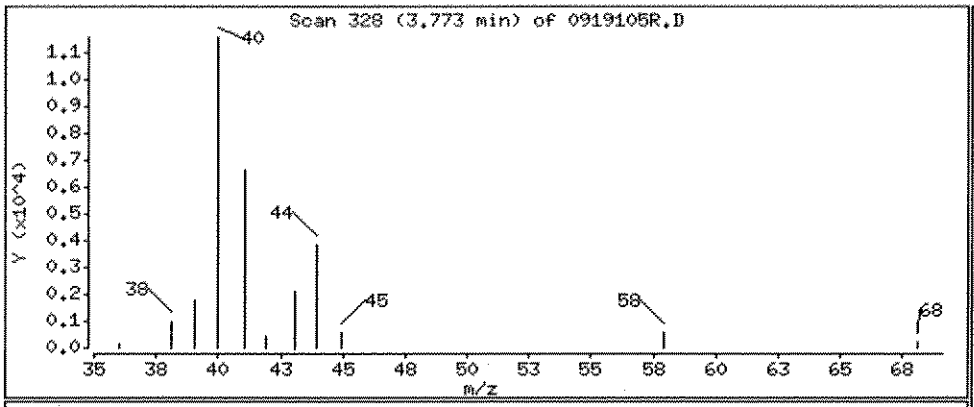
Operator: ADM

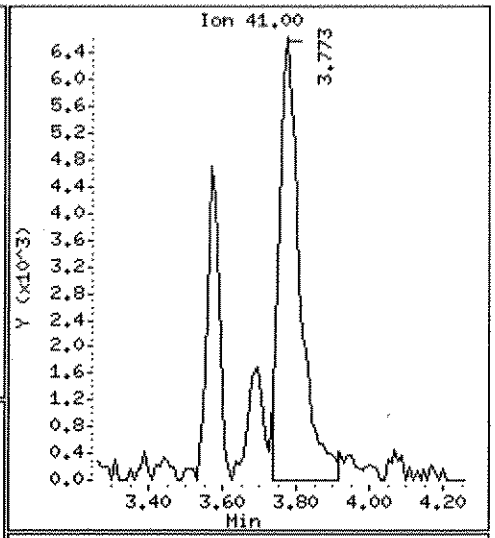
Column phase: RTX-VRX

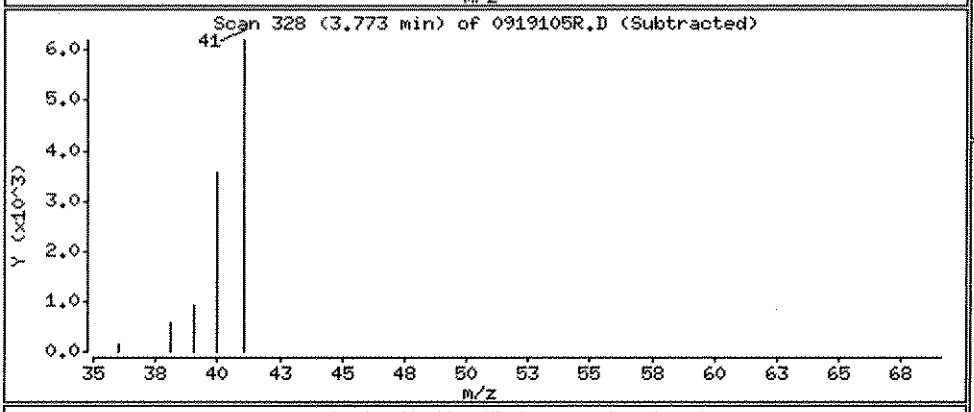
Column diameter: 0.25

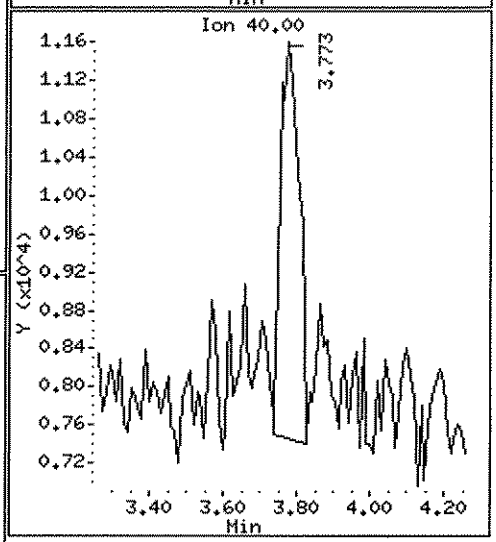
10 Acetonitrile

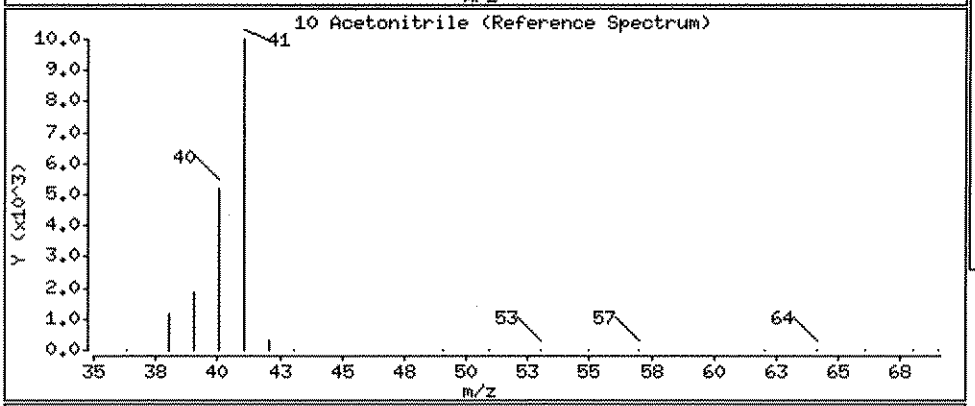
Concentration: 27.82 ug/Kg

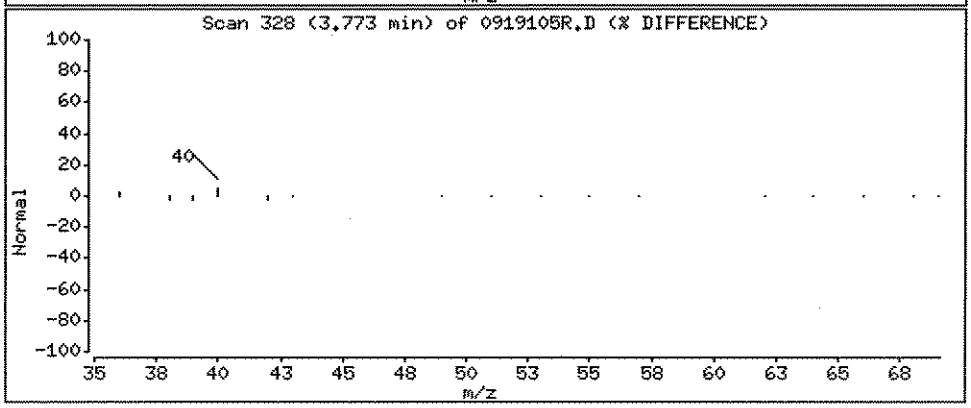












Data File: \\ELABNSH05\TARGET\chem\voa5.i\092811V5.b\0919105R.D

Date : 28-SEP-2011 15:46

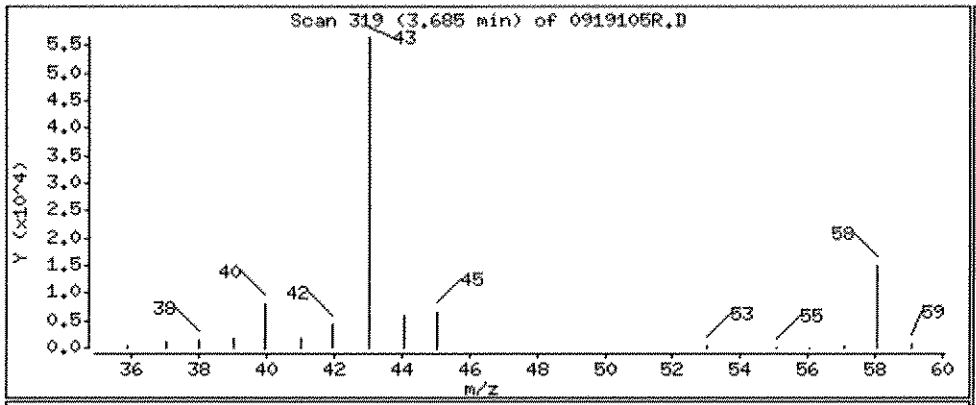
Client ID: Instrument: voa5.i

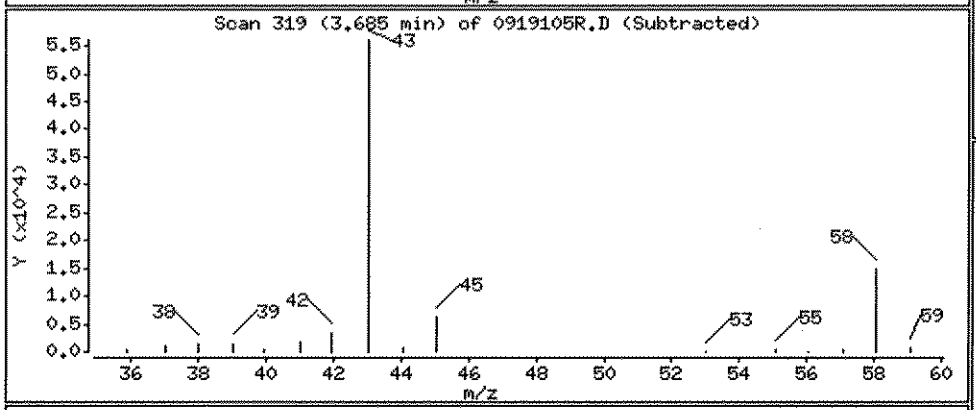
Sample Info: 1109191-05RE1;;;;;

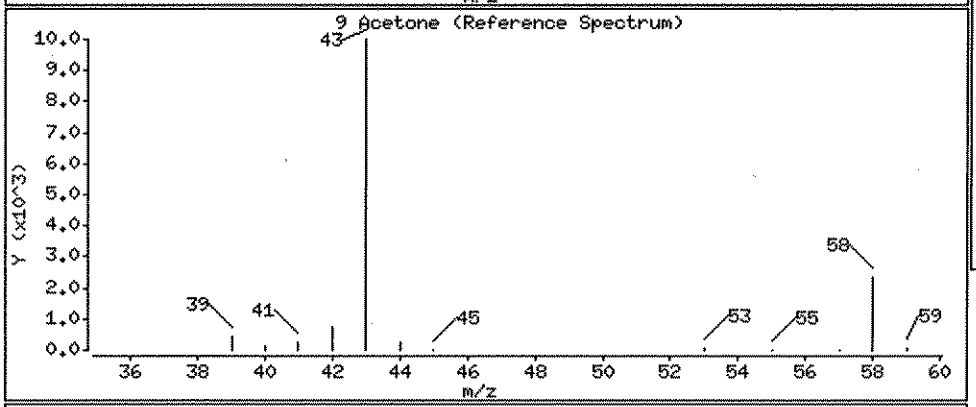
Operator: ADM

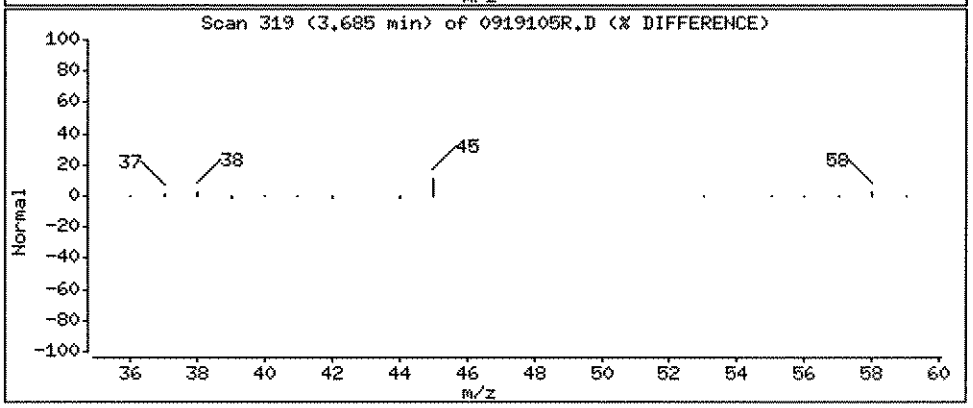
Column phase: RTX-VRX Column diameter: 0.25

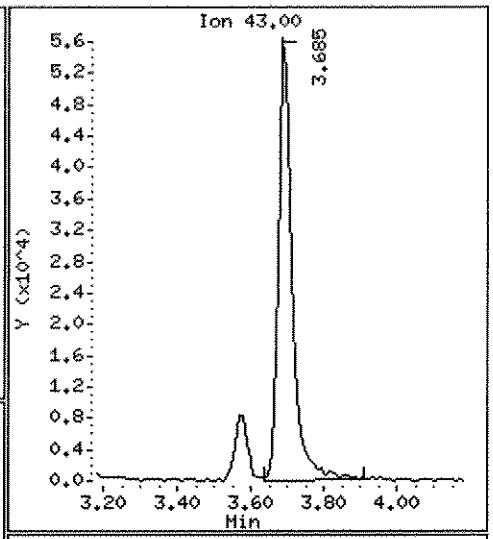
9 Acetone Concentration: 75.15 ug/Kg

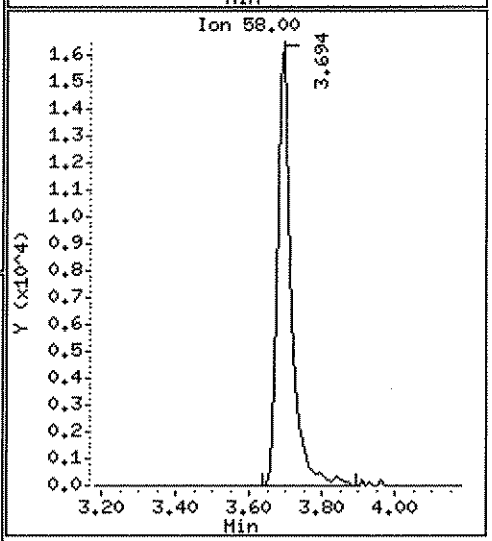












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Date : 28-SEP-2011 15:46

Client ID:

Instrument: voa5.i

Sample Info: 1109191-05RE1;;;;;

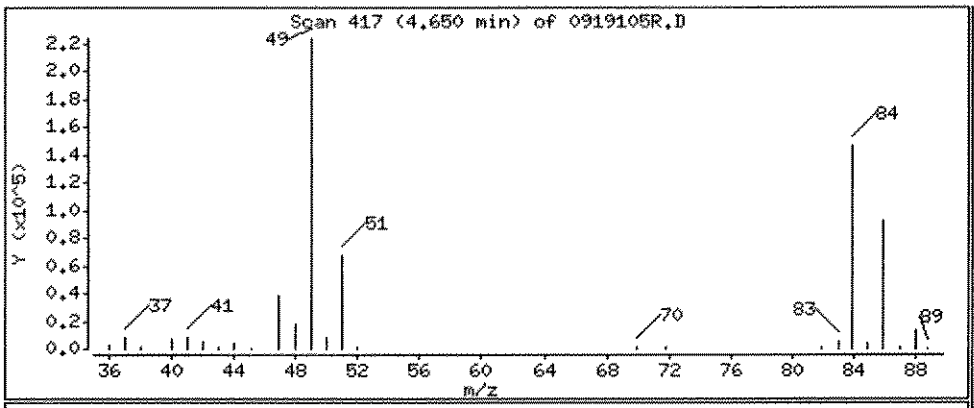
Operator: ADM

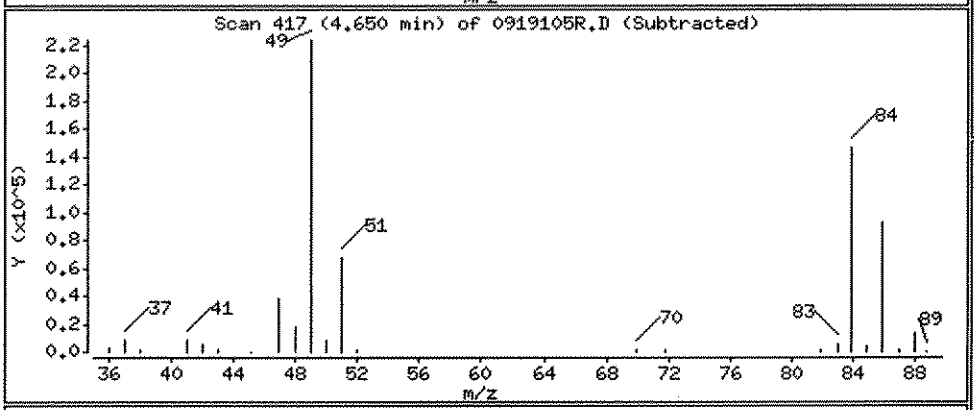
Column phase: RTX-VRX

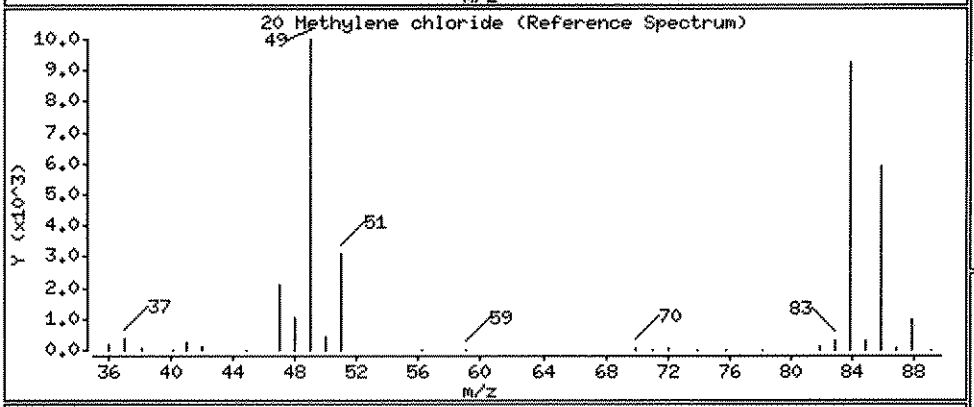
Column diameter: 0.25

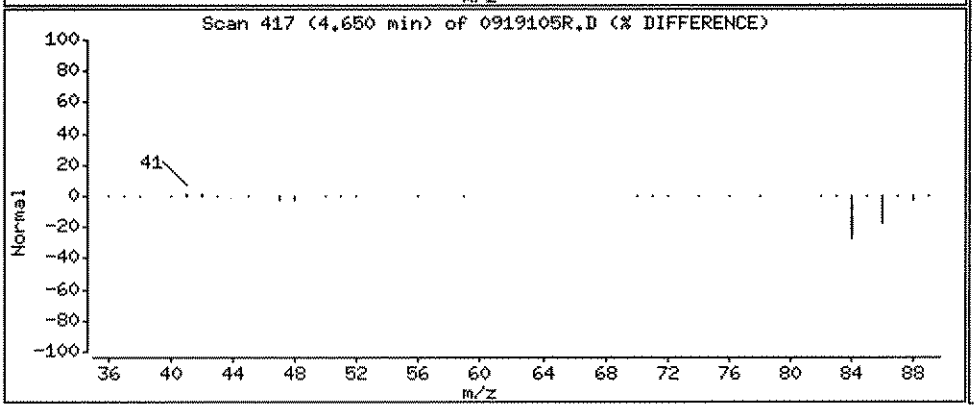
20 Methylene chloride

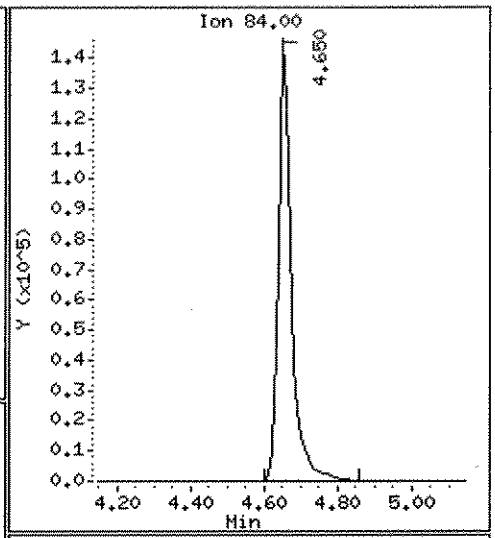
Concentration: 48.23 ug/Kg

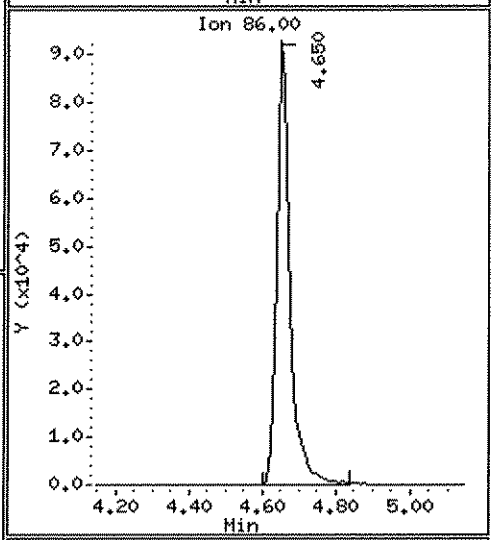


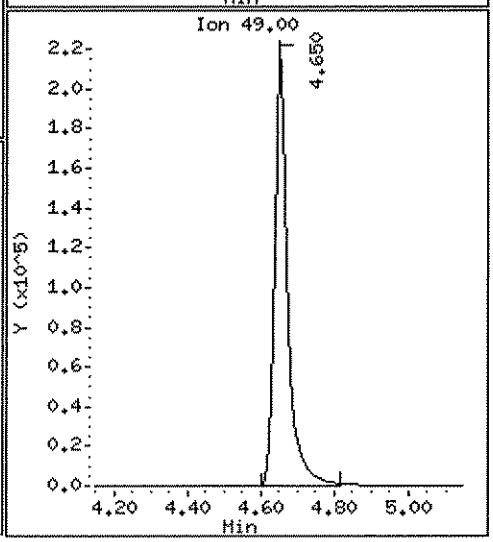












Data File: \\ELABNSH05\TARGET\chem\voa5.i\092811V5.b\0919105R.D

Date : 28-SEP-2011 15:46

Client ID:

Instrument: voa5.i

Sample Info: 1109191-05RE1;;;;;

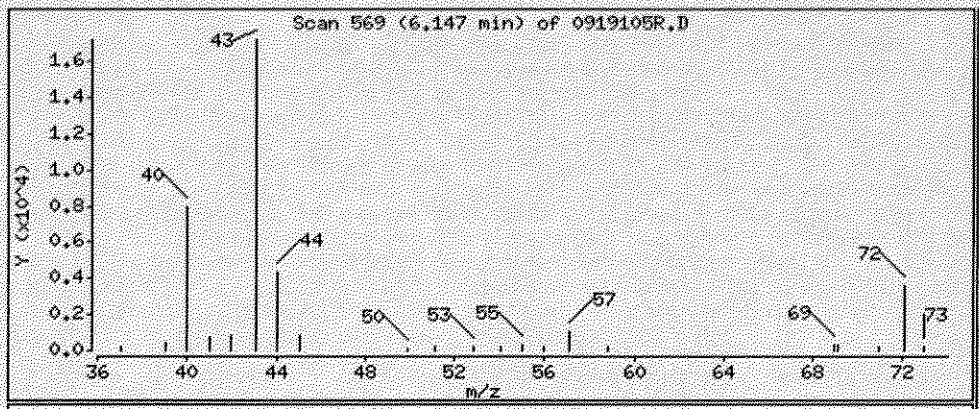
Operator: ADM

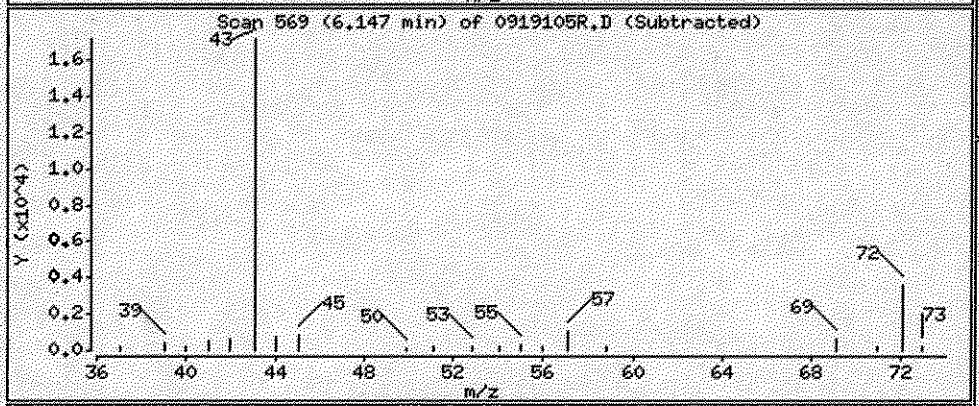
Column phase: RTX-VRX

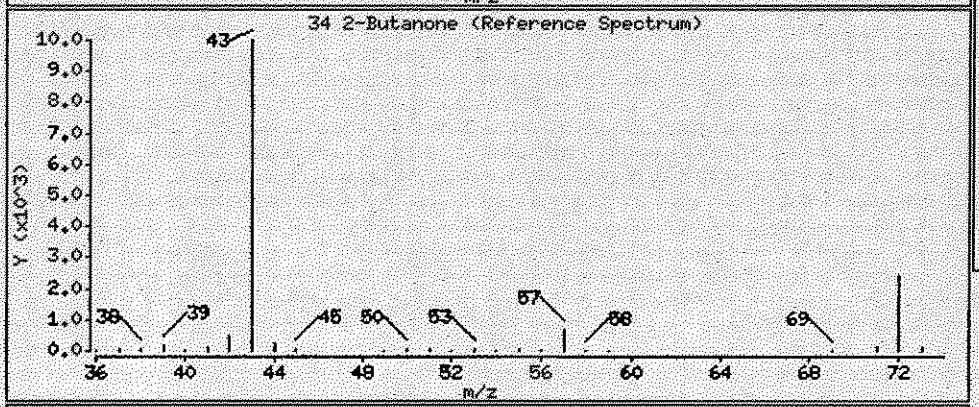
Column diameter: 0.25

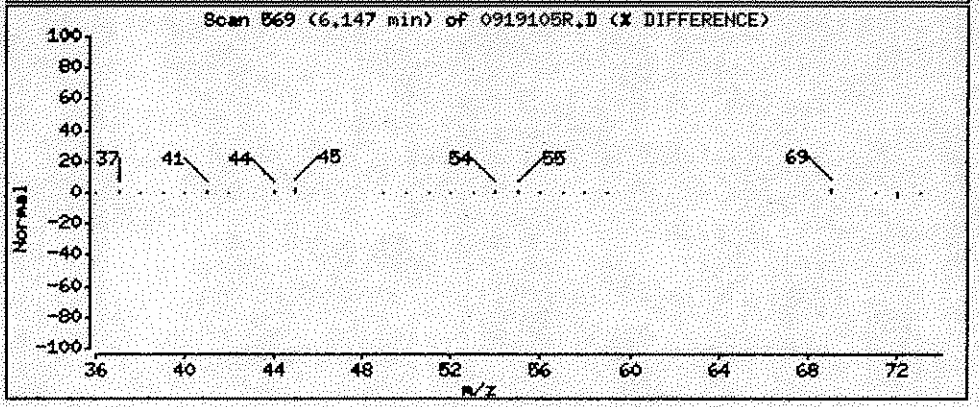
34 2-Butanone

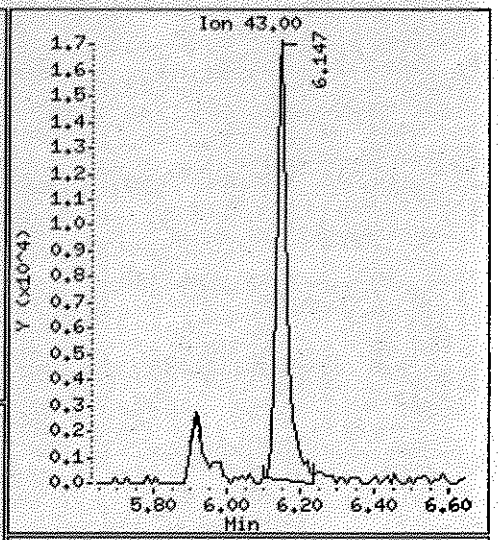
Concentration: 10.42 ug/Kg

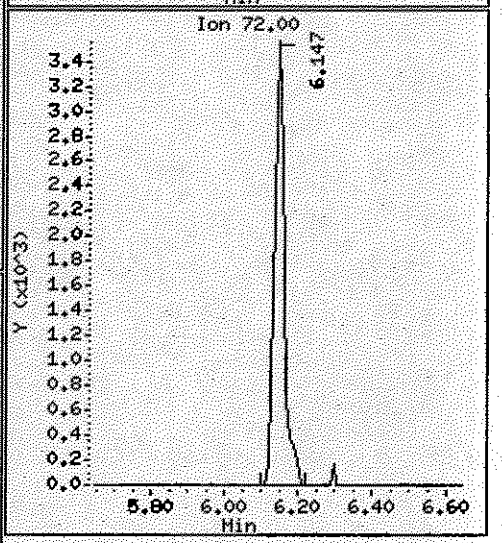












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Date : 28-SEP-2011 15:46

Client ID:

Instrument: voa5.i

Sample Info: 1109191-05RE1;;;;;

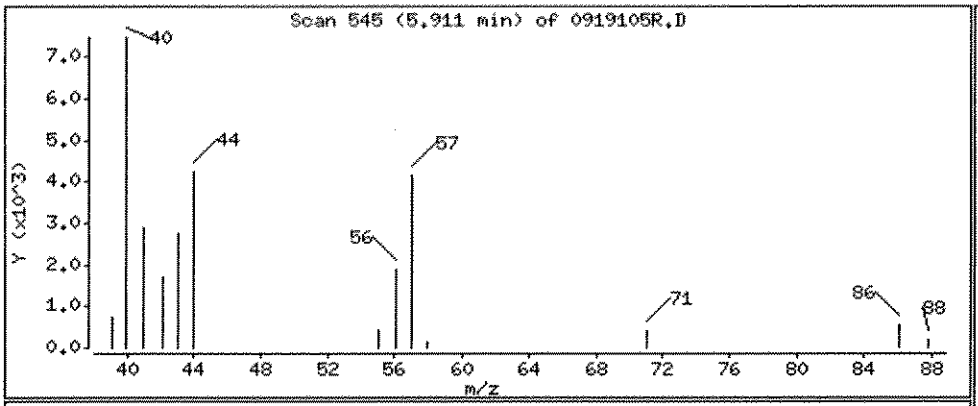
Operator: ADM

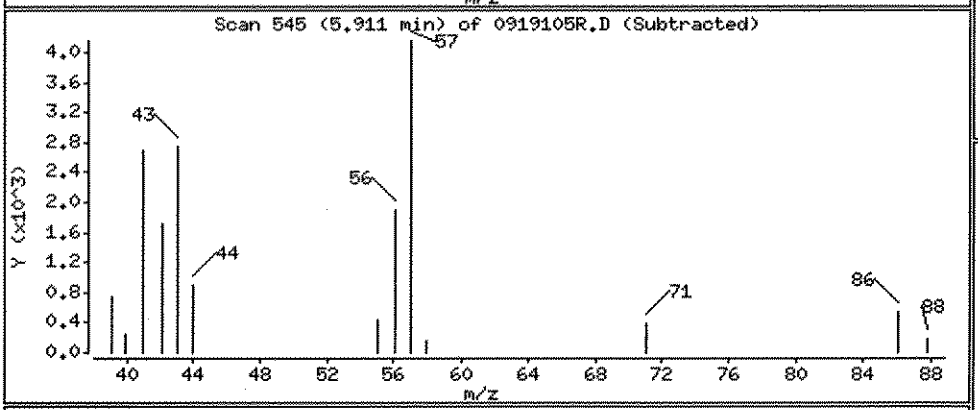
Column phase: RTX-VRX

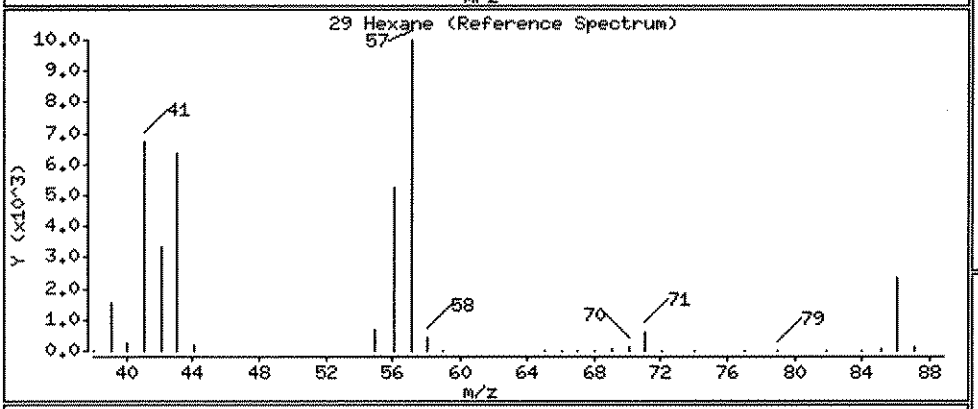
Column diameter: 0.25

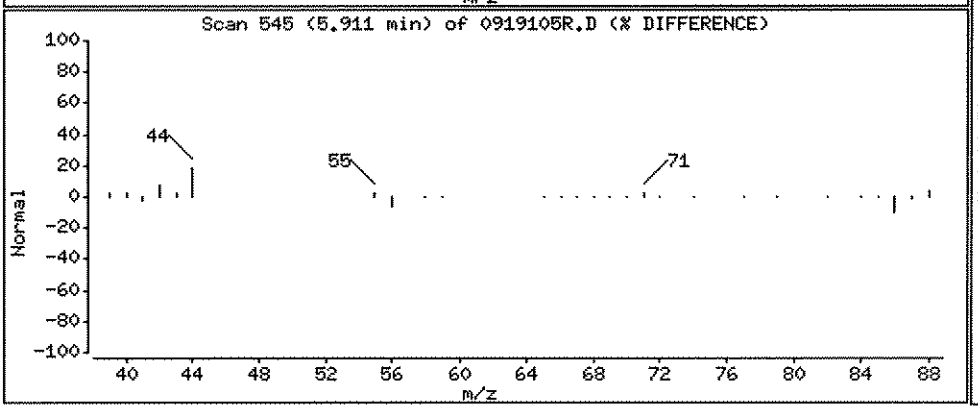
29 Hexane

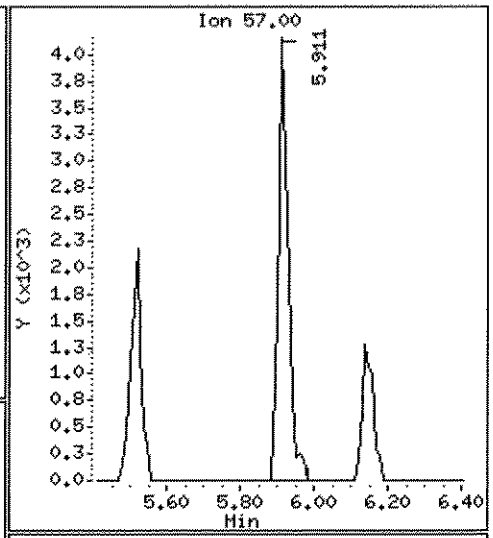
Concentration: 0.7057 ug/Kg

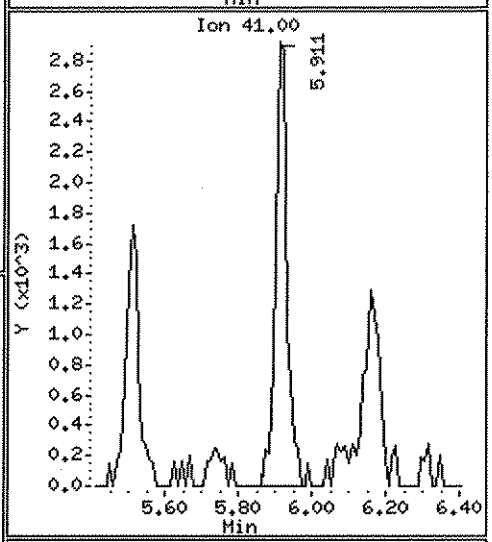


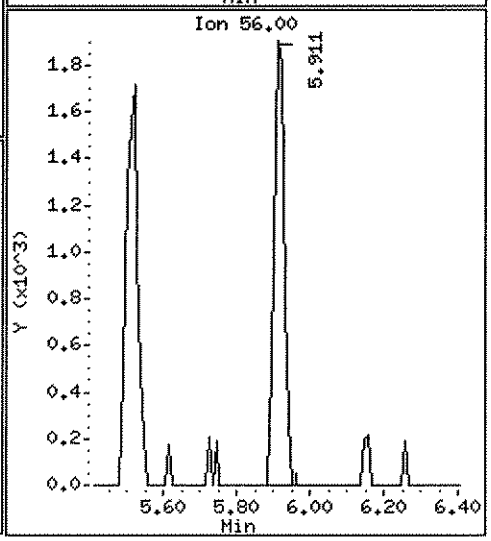












Data File: \\ELABNSH05\TARGET\chem\voa5.i\092811V5.b\0919105R.D

Date : 28-SEP-2011 15:46

Client ID:

Instrument: voa5.i

Sample Info: 1109191-05RE1;;;;;

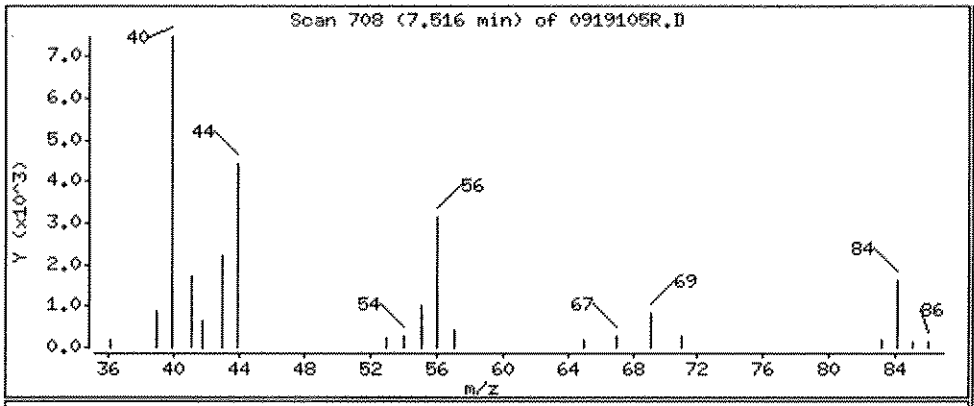
Operator: ADM

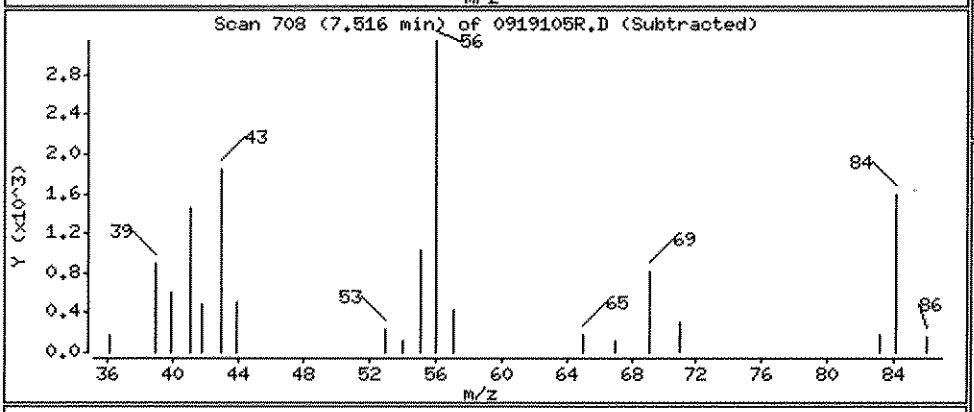
Column phase: RTX-VRX

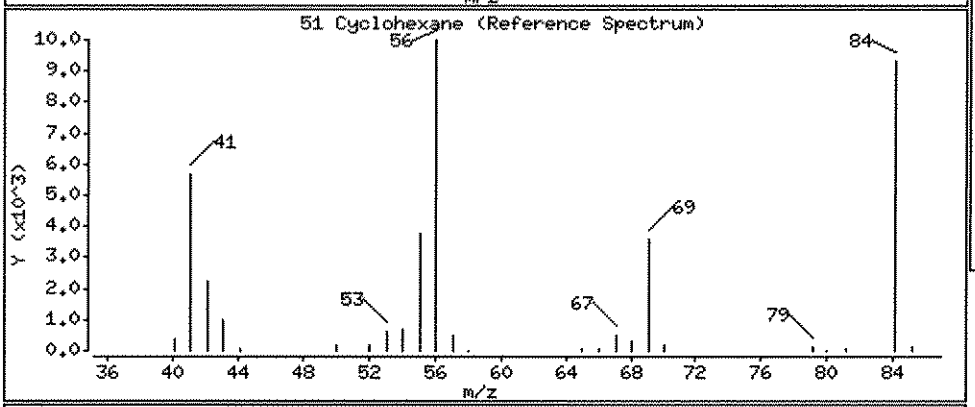
Column diameter: 0.25

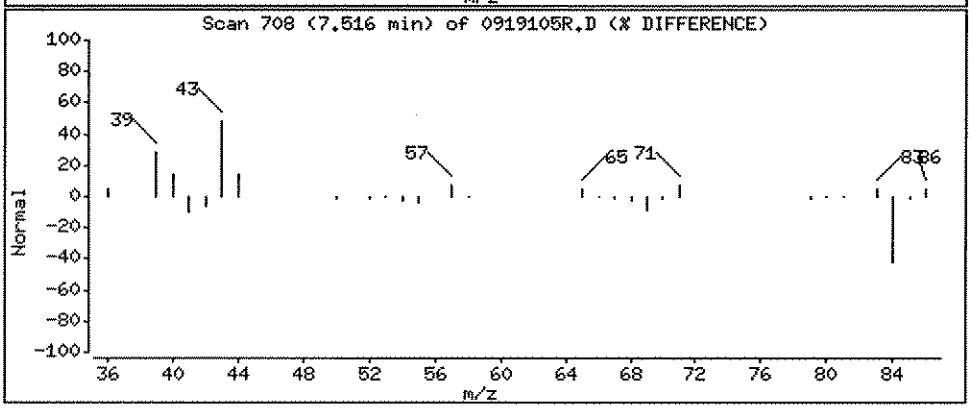
51 Cyclohexane

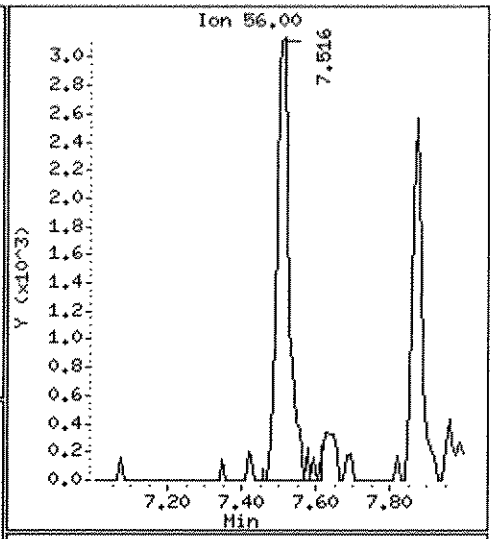
Concentration: 0.6270 ug/Kg

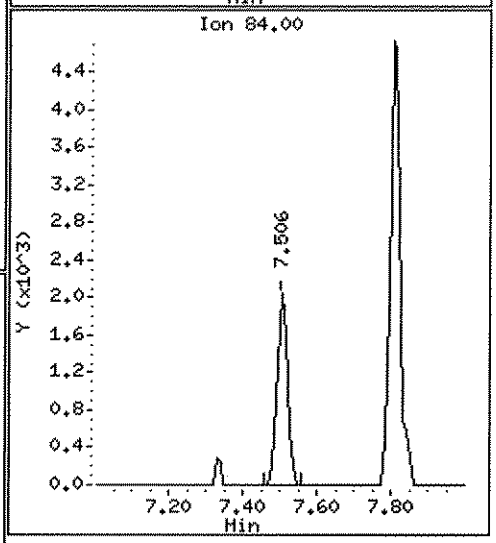












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Date : 28-SEP-2011 15:46

Client ID:

Instrument: voa5.i

Sample Info: 1109191-05RE1;;;;;

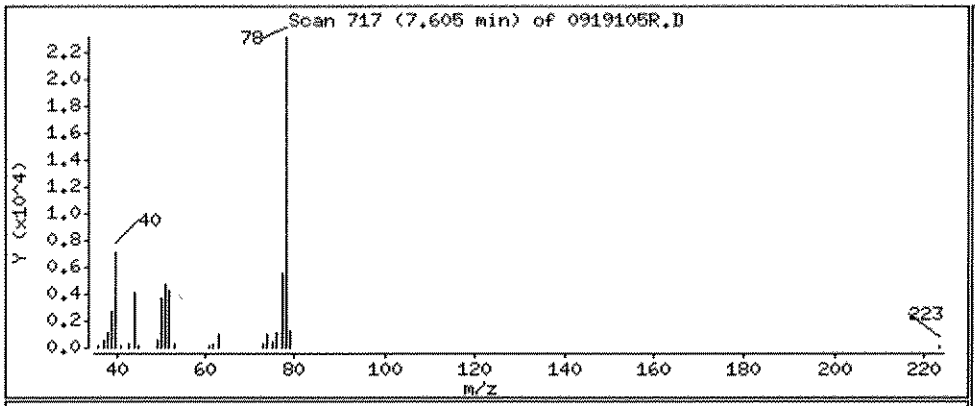
Operator: ADM

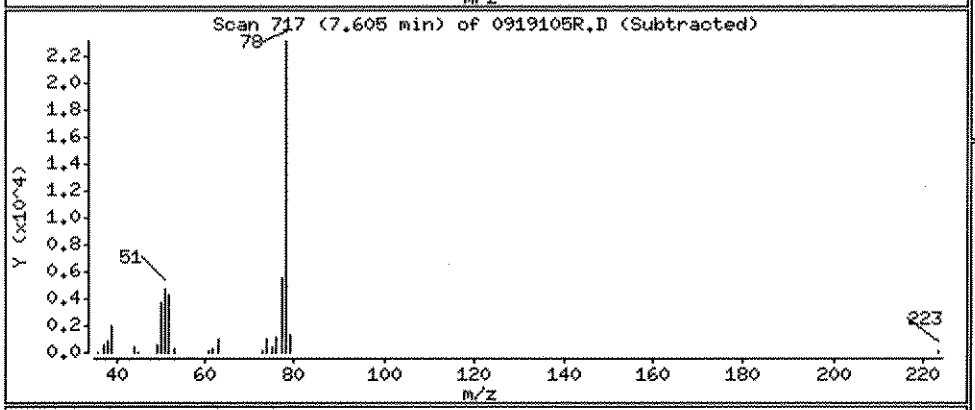
Column phase: RTX-VRX

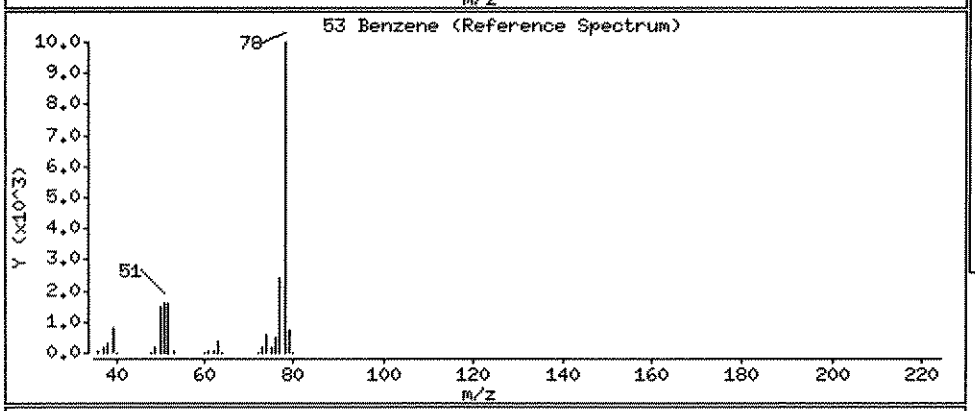
Column diameter: 0.25

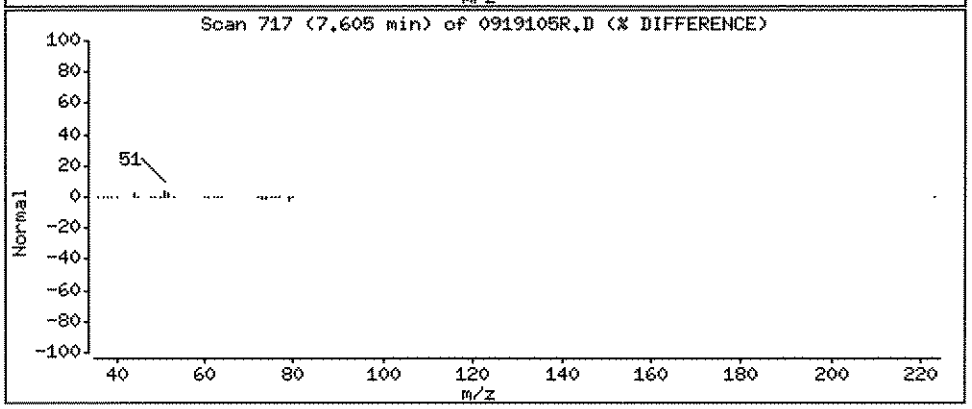
53 Benzene

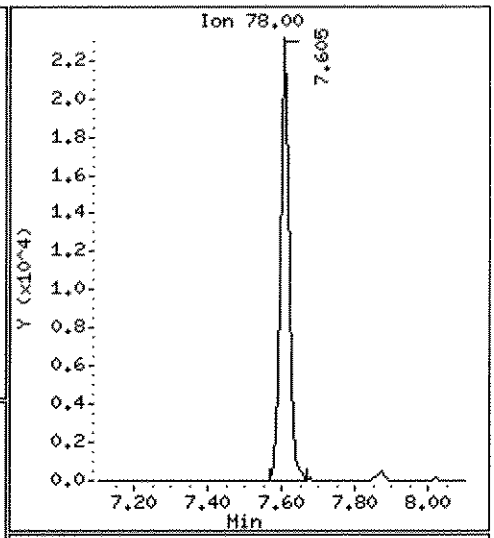
Concentration: 1.586 ug/Kg

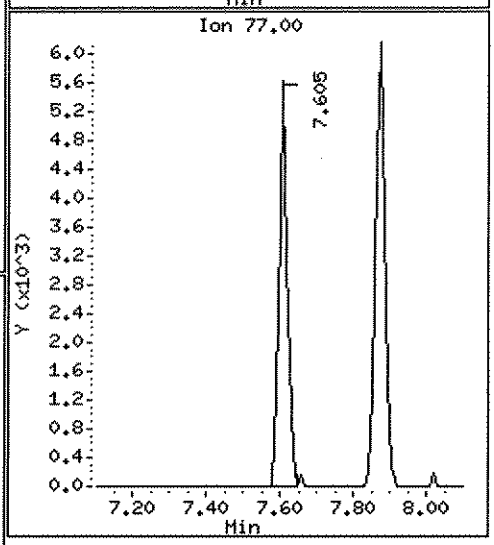












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Date : 28-SEP-2011 15:46

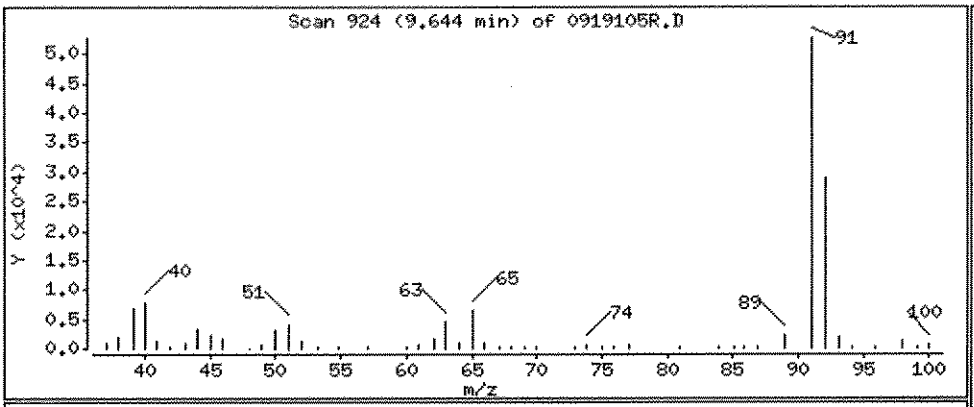
Client ID: Instrument: voa5.i

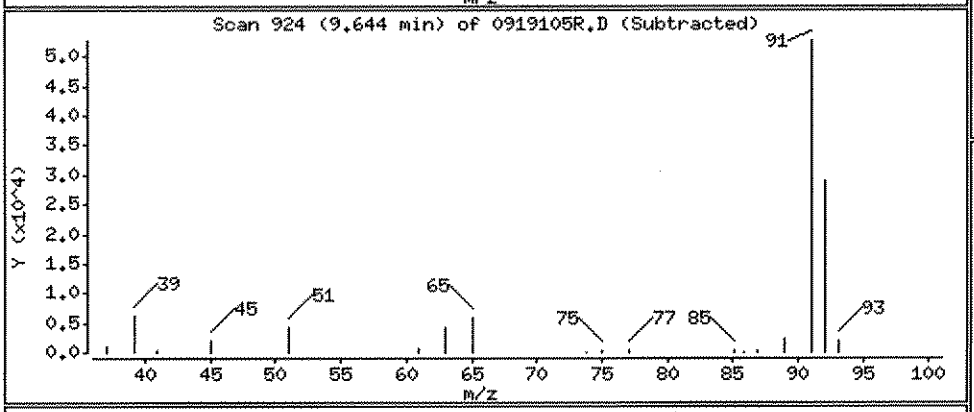
Sample Info: 1109191-05RE1;;;;;

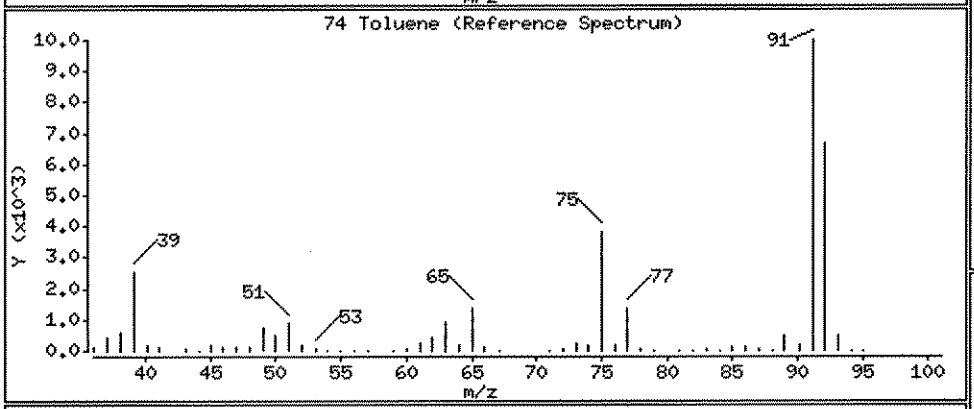
Operator: ADM

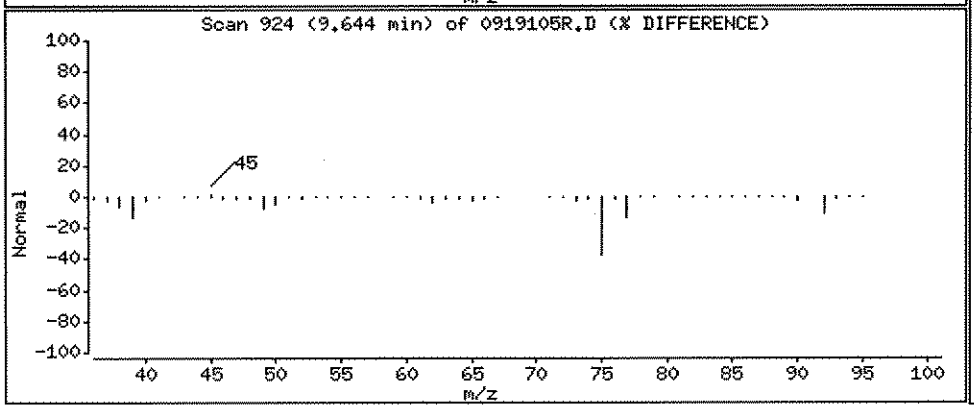
Column phase: RTX-VRX Column diameter: 0.25

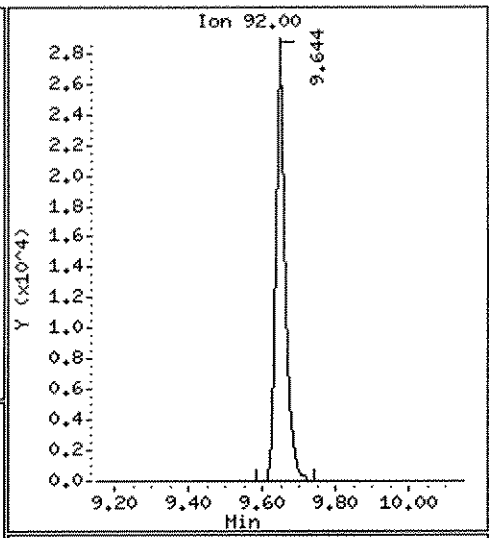
74 Toluene Concentration: 4.070 ug/Kg

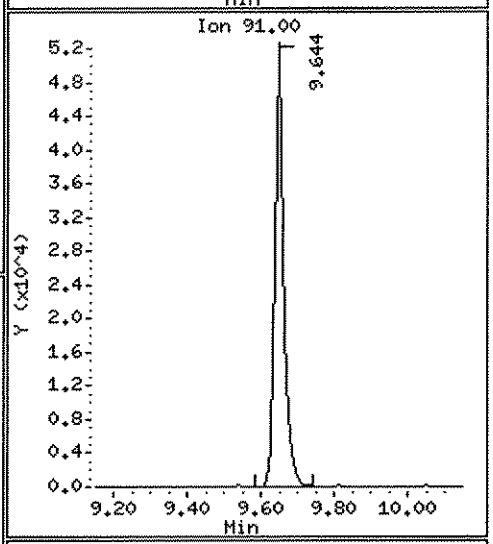


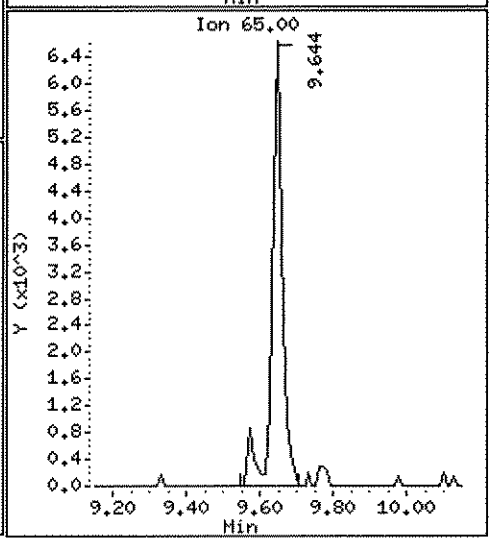












Data File: \\ELABNSH05\TARGET\chem\voa5.i\092811V5.b\0919105R.D

Date : 28-SEP-2011 15:46

Client ID:

Instrument: voa5.i

Sample Info: 1109191-05RE1;;;;;

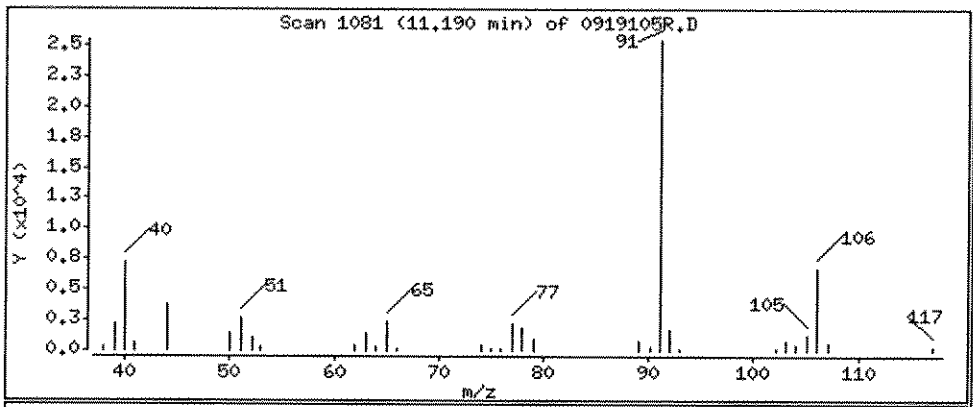
Operator: ADH

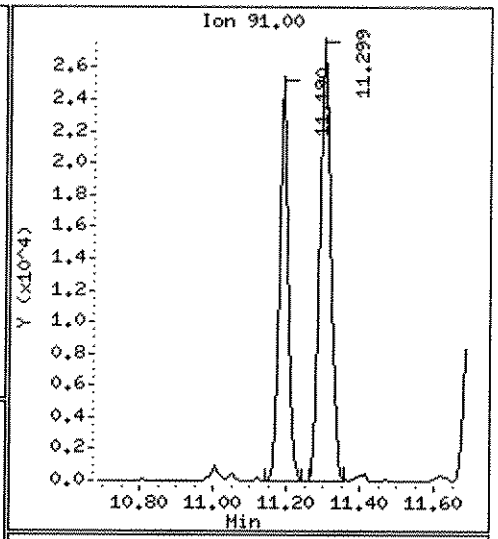
Column phase: RTX-VRX

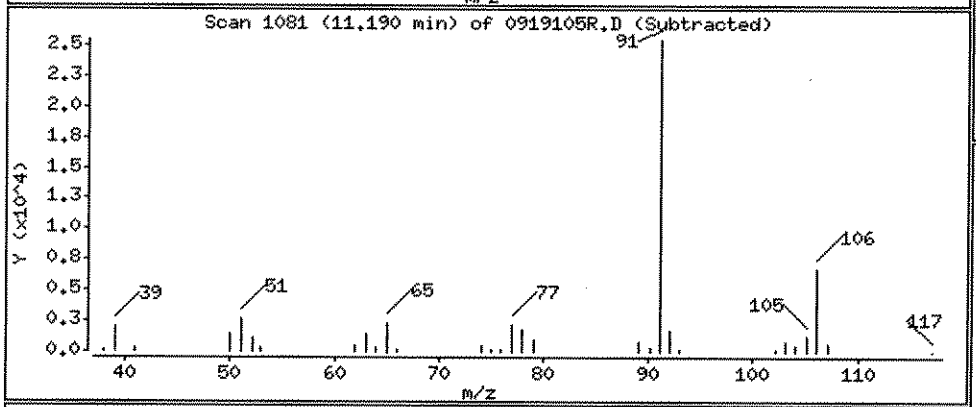
Column diameter: 0.25

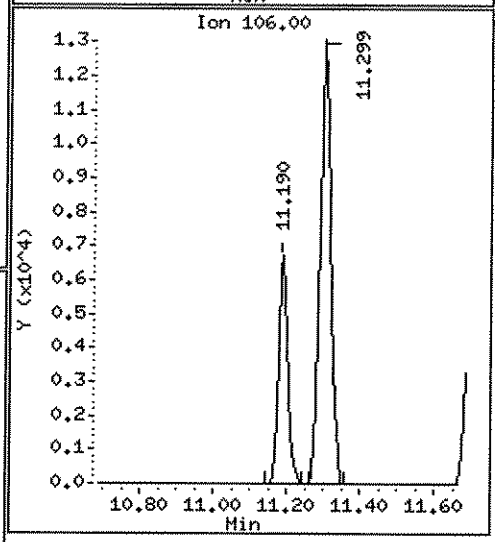
86 Ethylbenzene

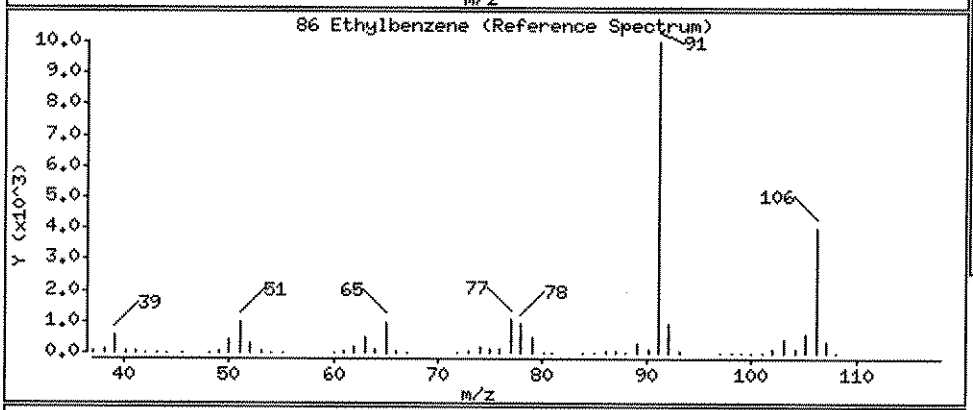
Concentration: 1.891 ug/Kg

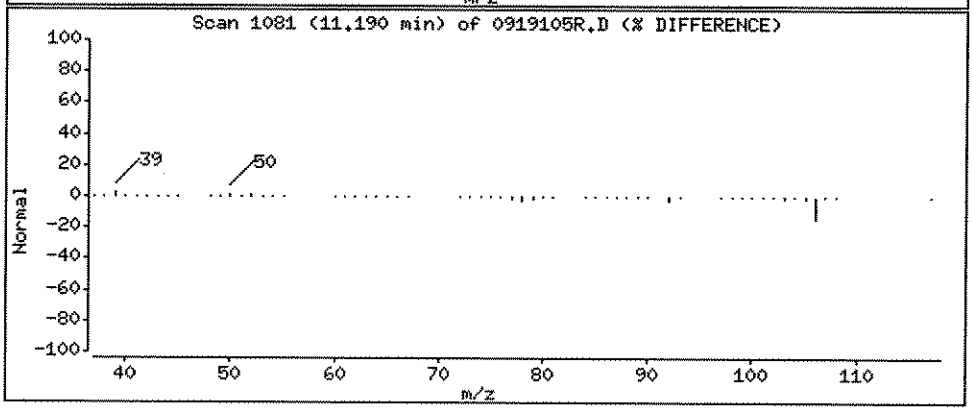












Data File: \\ELABNSH05\TARGET\chem\voa5.i\092811V5.b\0919105R.D

Date : 28-SEP-2011 15:46

Client ID:

Instrument: voa5.i

Sample Info: 1109191-05RE1;;;;;

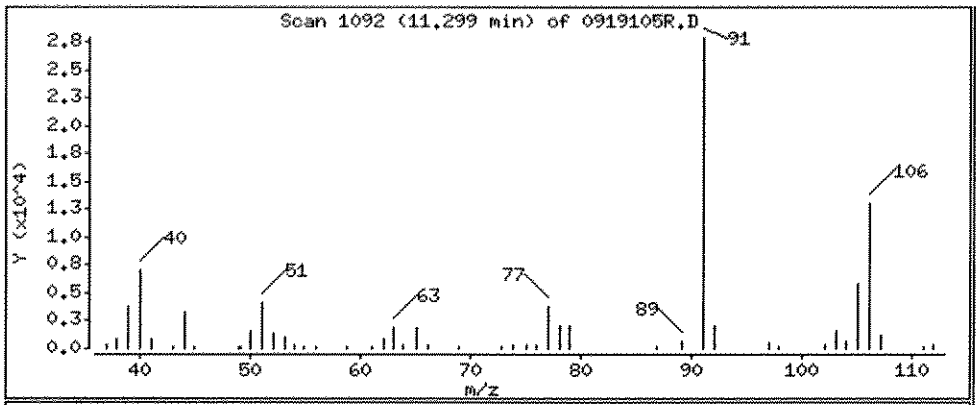
Operator: ADM

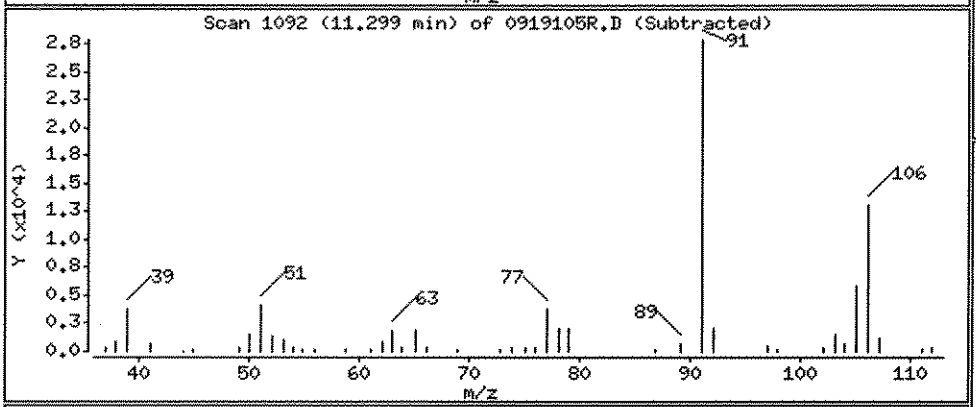
Column phase: RTX-VRX

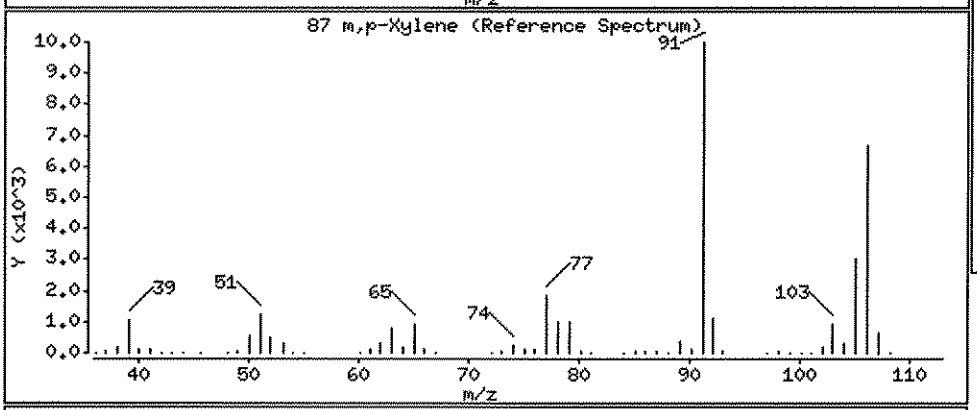
Column diameter: 0.25

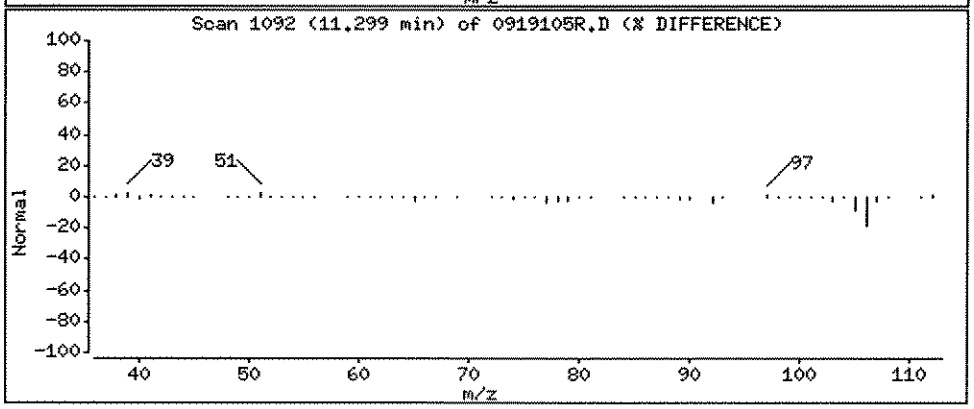
87 m,p-Xylene

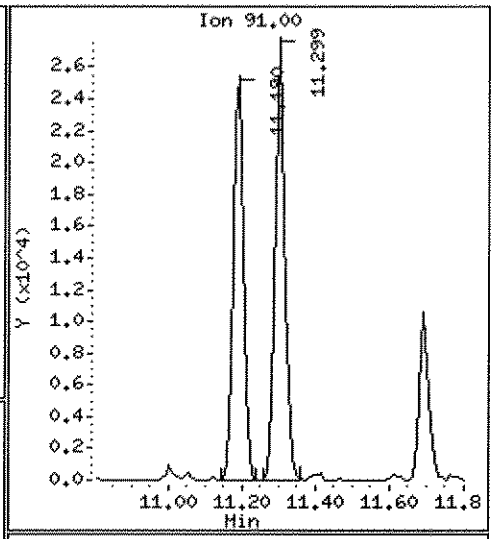
Concentration: 3.229 ug/Kg

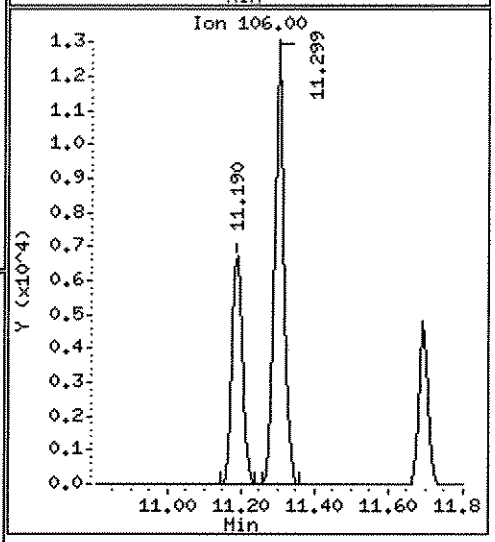












Data File: \\ELABNSH05\TARGET\chem\voa5.i\092811V5.b\0919105R.D

Date : 28-SEP-2011 15:46

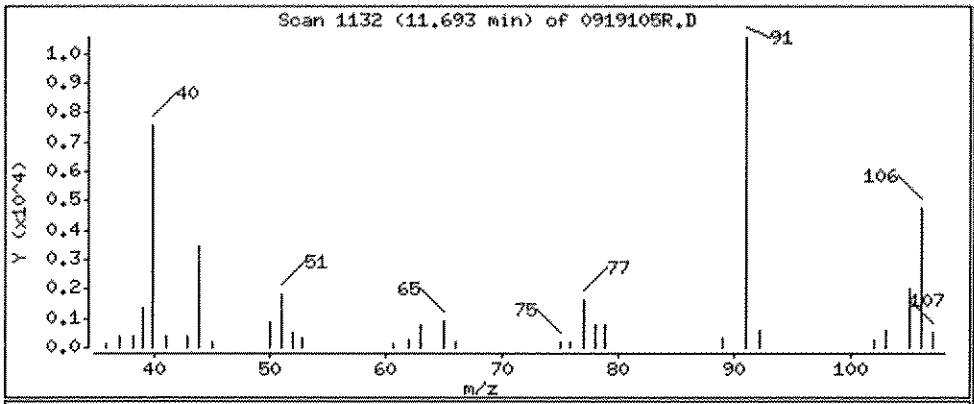
Client ID: Instrument: voa5.i

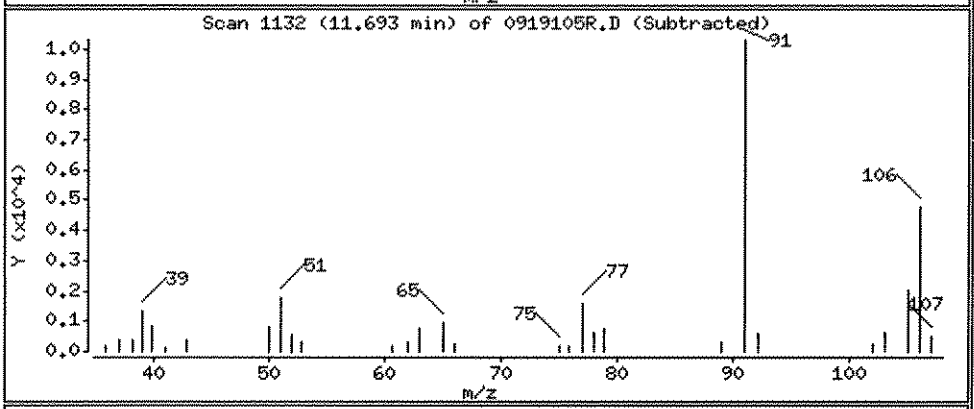
Sample Info: 1109191-05RE1;;;;;

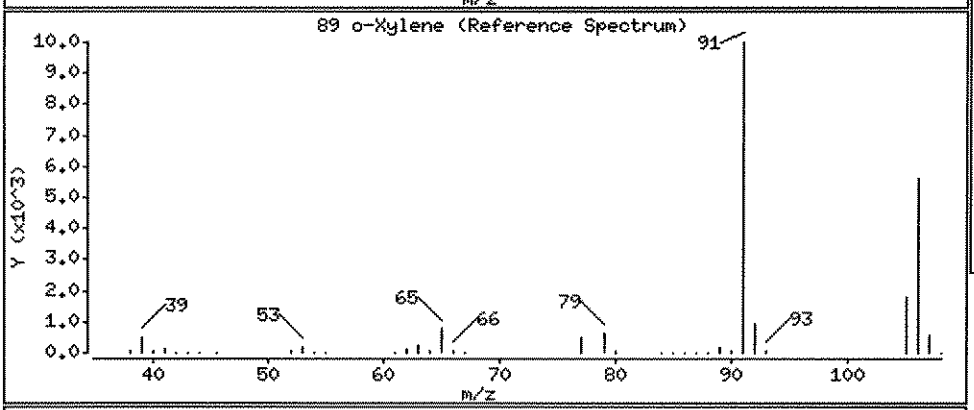
Operator: ADM

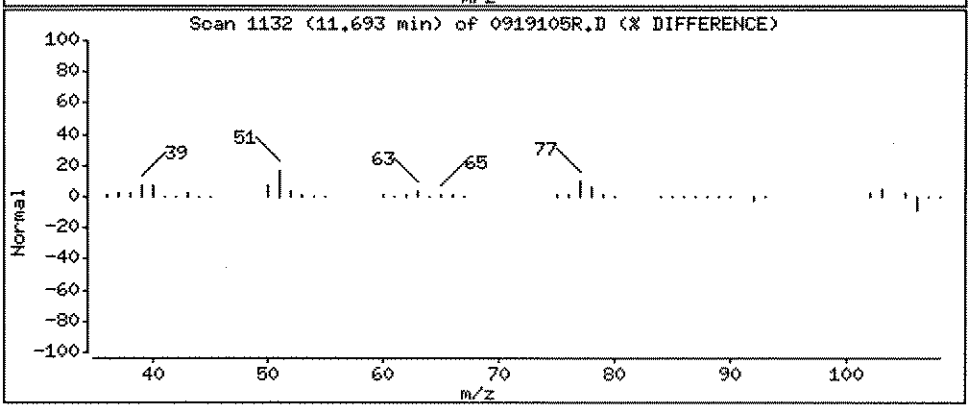
Column phase: RTX-VRX Column diameter: 0.25

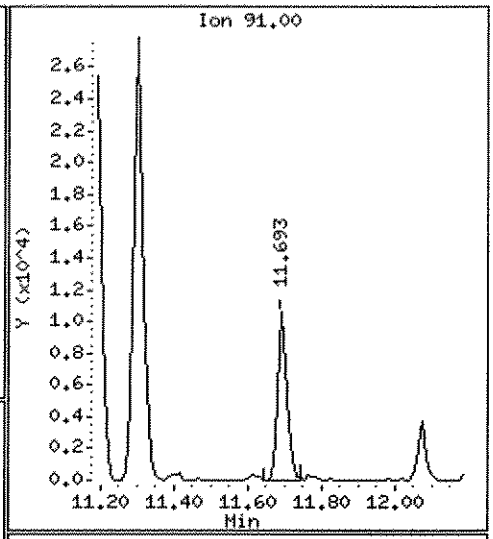
89 o-Xylene Concentration: 1.150 ug/Kg

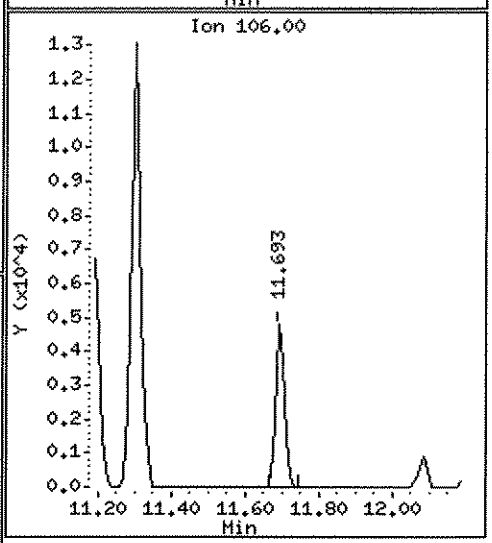












Data File: \\ELABNSH05\TARGET\chem\voa5.i\092811V5.b\0919105R.D

Date : 28-SEP-2011 15:46

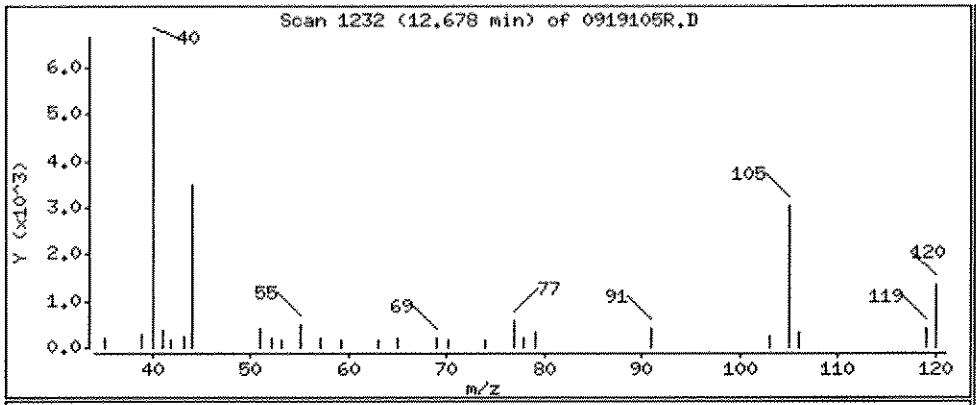
Client ID: Instrument: voa5.i

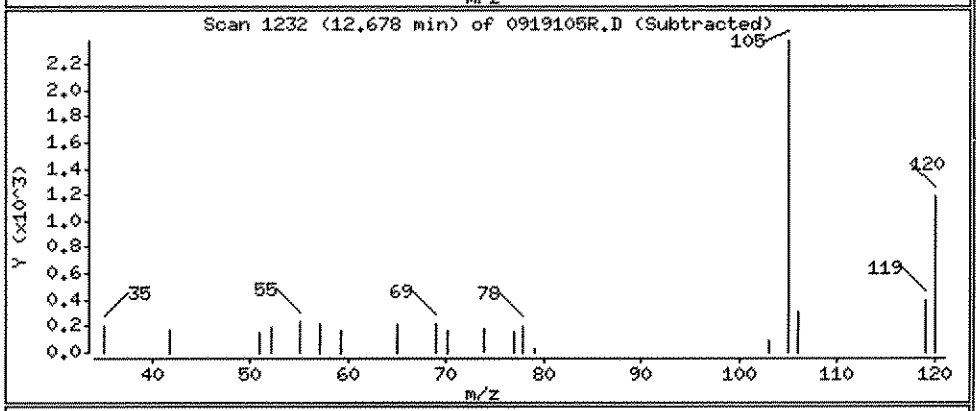
Sample Info: 1109191-05RE1;;;;;

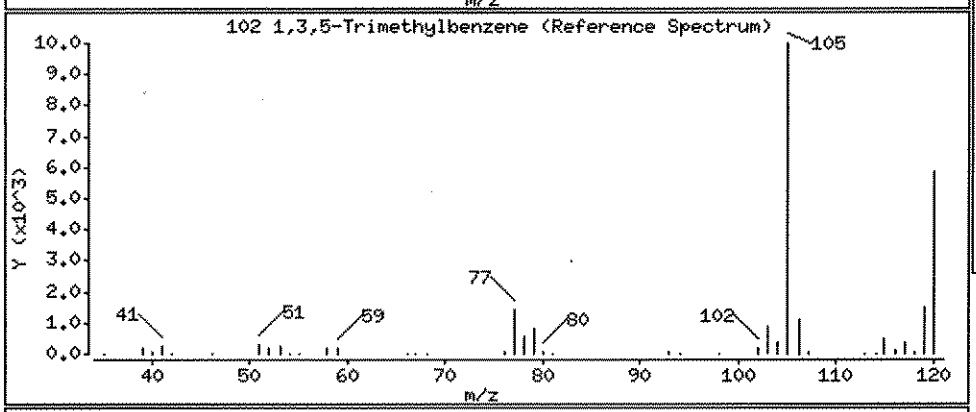
Operator: ADM

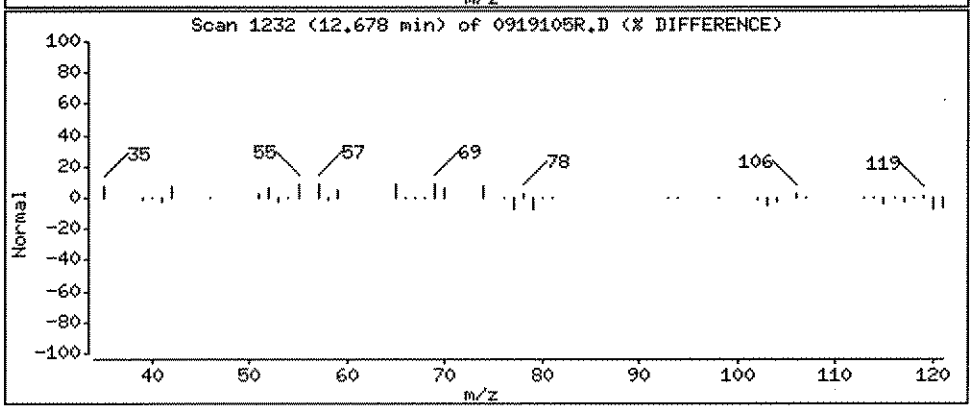
Column phase: RTX-VRX Column diameter: 0.25

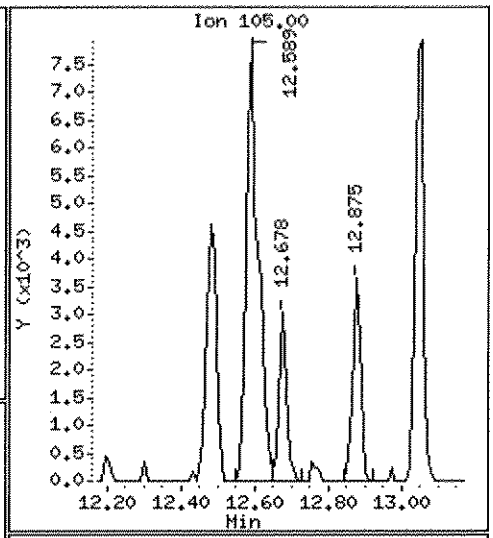
102 1,3,5-Trimethylbenzene Concentration: 0.4096 ug/Kg

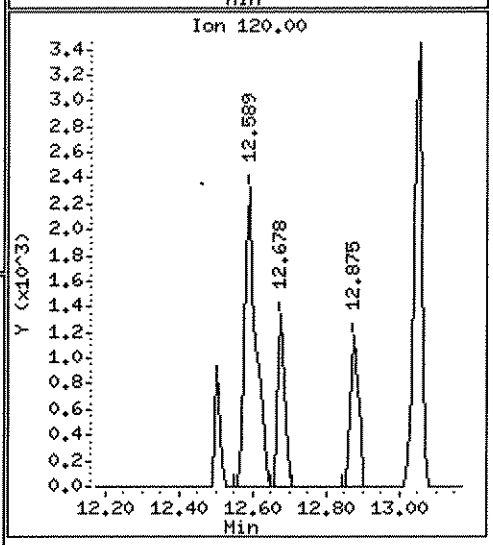












Data File: \\ELABNSH05\TARGET\chem\voa5.i\092811V5.b\0919105R.D

Date : 28-SEP-2011 15:46

Client ID:

Instrument: voa5.i

Sample Info: 1109191-05RE1;;;;;

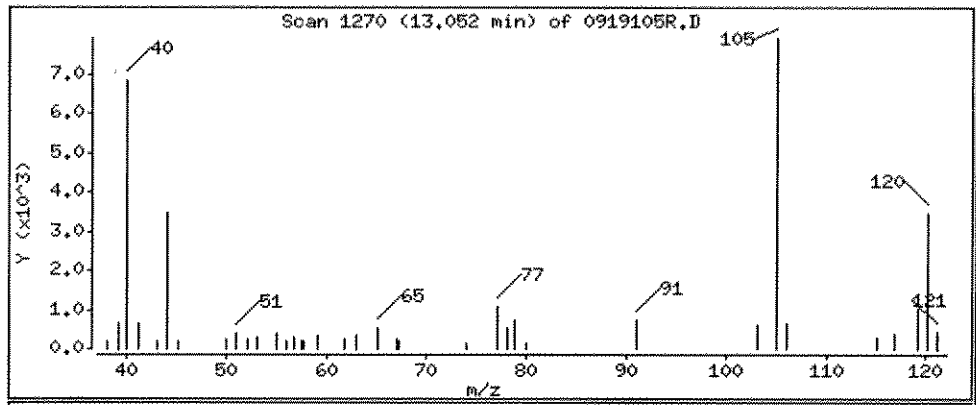
Operator: ADM

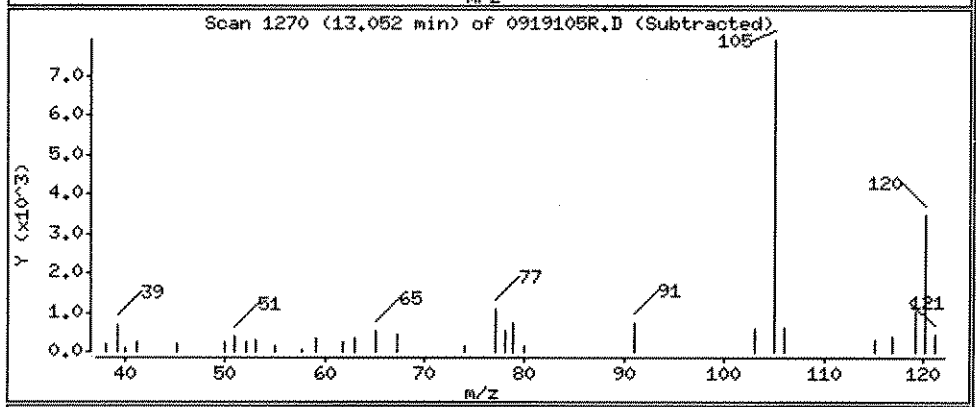
Column phase: RTX-VRX

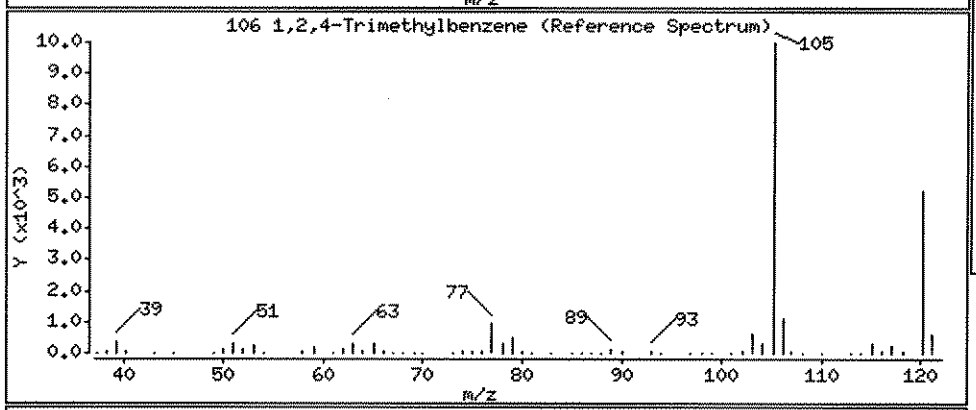
Column diameter: 0.25

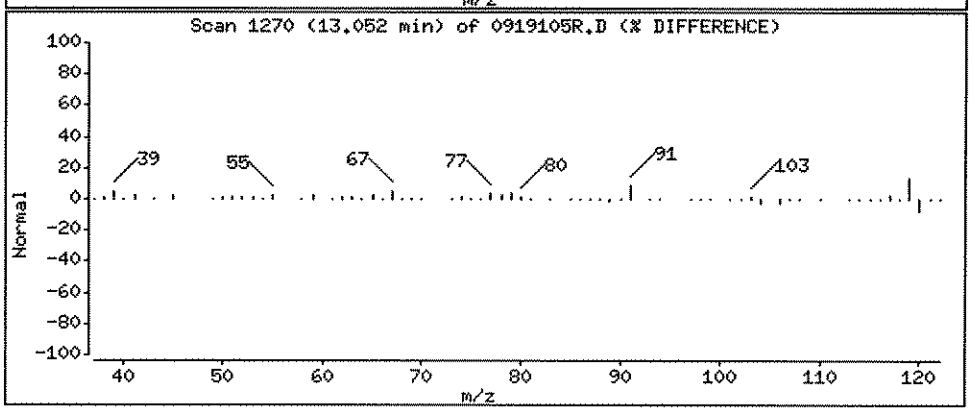
106 1,2,4-Trimethylbenzene

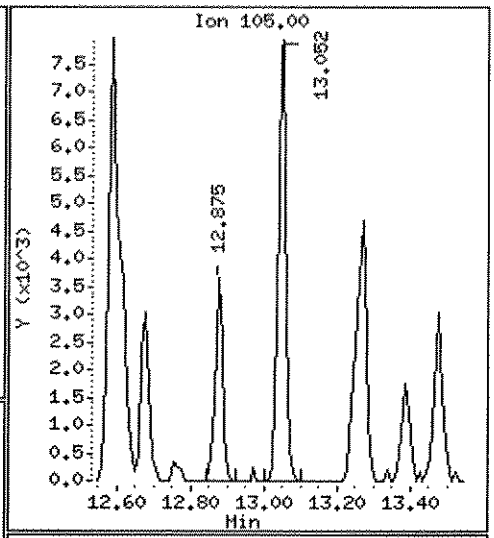
Concentration: 1.185 ug/Kg

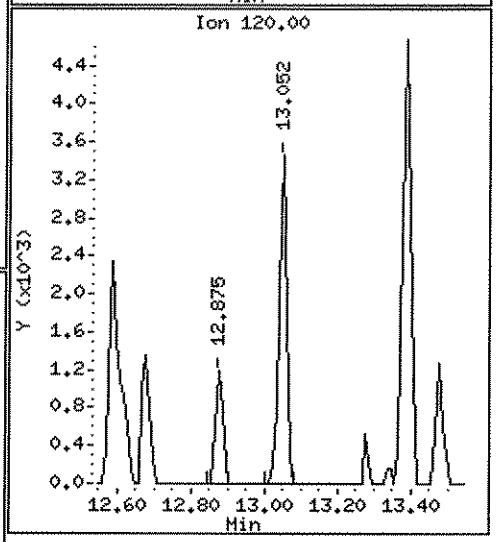












Data File: \\ELABNSHO5\TARGET\chem\voa5.i\092811V5.b\0919105R.D

Date : 28-SEP-2011 15:46

Client ID:

Instrument: voa5.i

Sample Info: 1109191-05RE1;;;;;

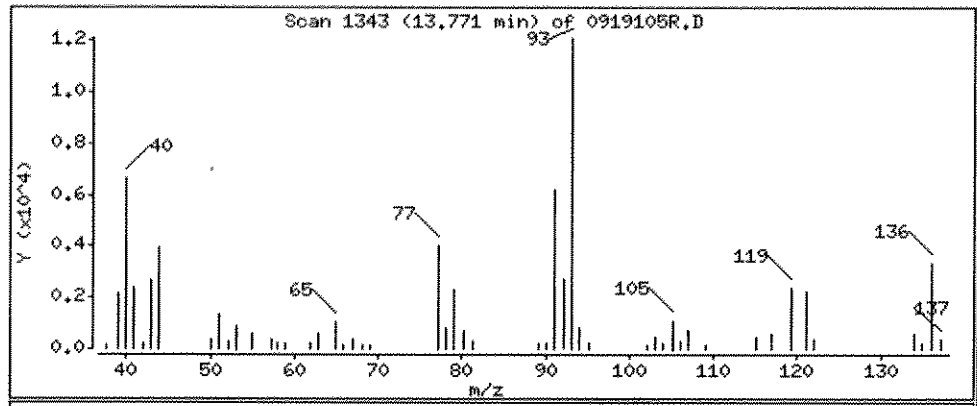
Operator: ADH

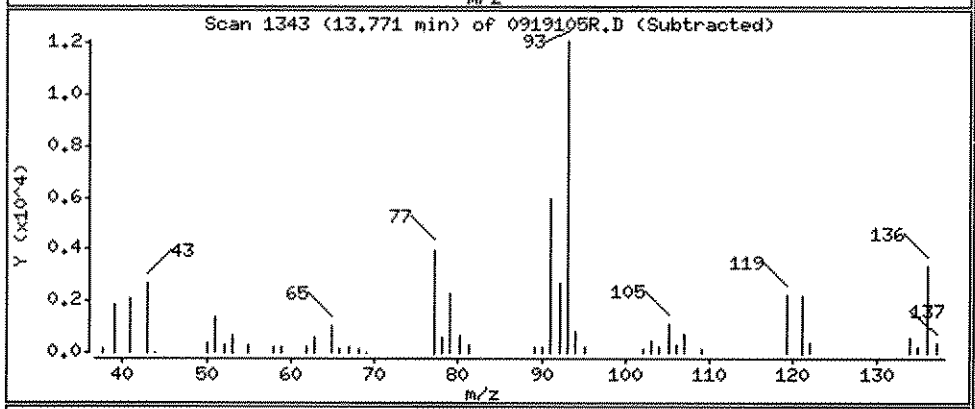
Column phase: RTX-VRX

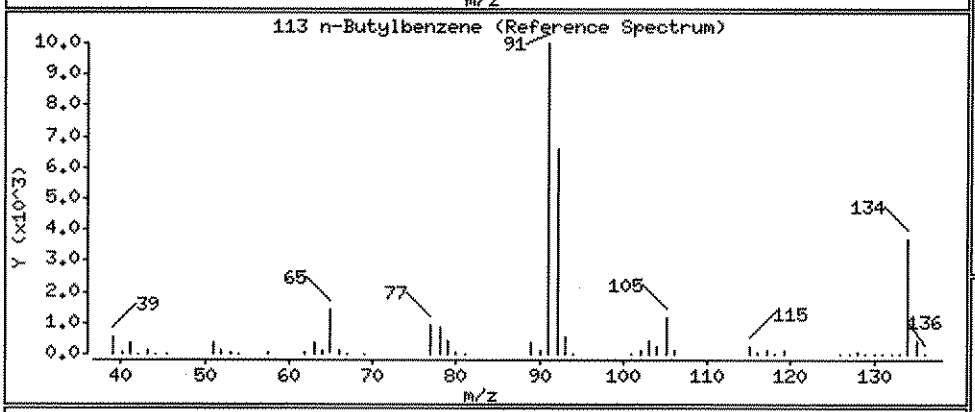
Column diameter: 0.25

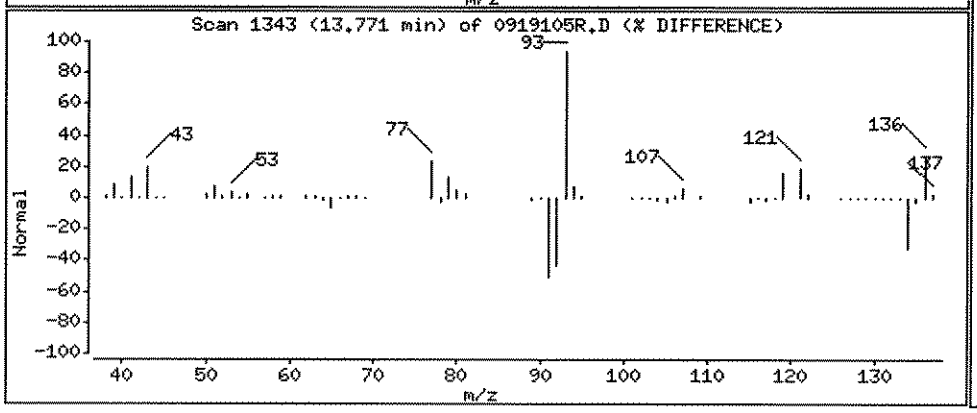
113 n-Butylbenzene

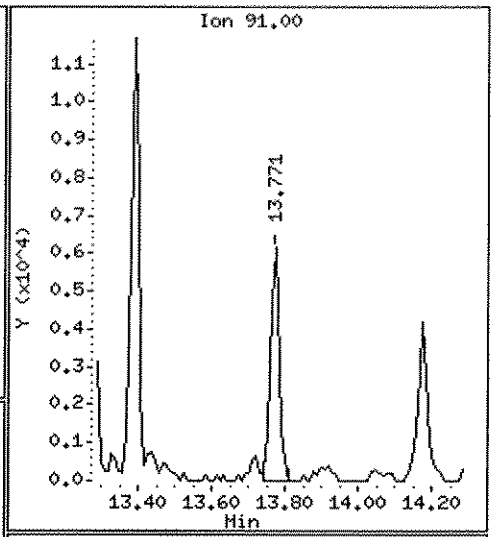
Concentration: 0.8728 ug/Kg

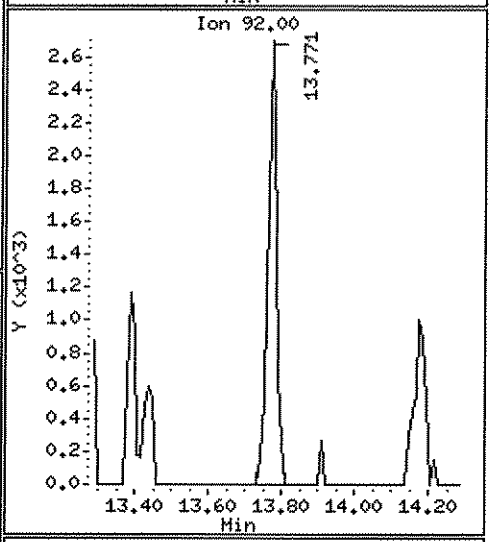


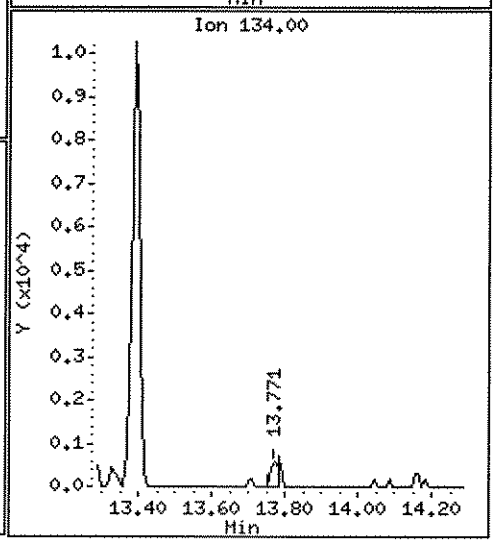












Data File: \\ELABNSH05\TARGET\chem\voa5.i\092811V5.b\0919105R.D

Date : 28-SEP-2011 15:46

Client ID:

Instrument: voa5.i

Sample Info: 1109191-05RE1;;;;;

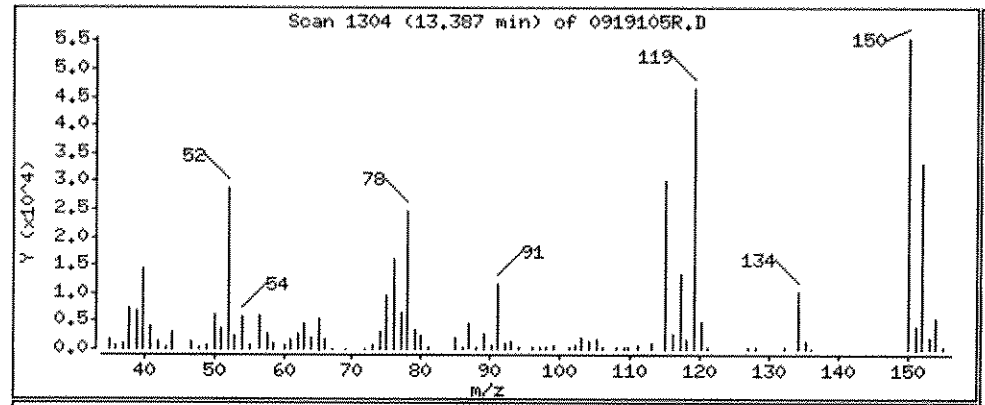
Operator: ADM

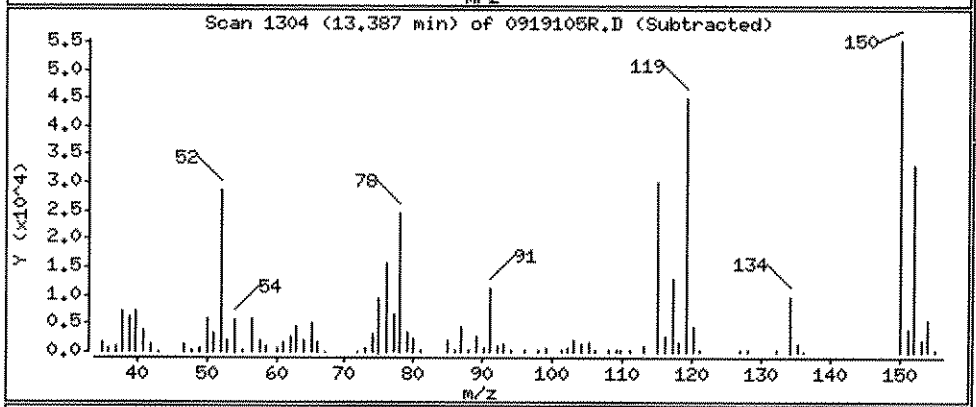
Column phase: RTX-VRX

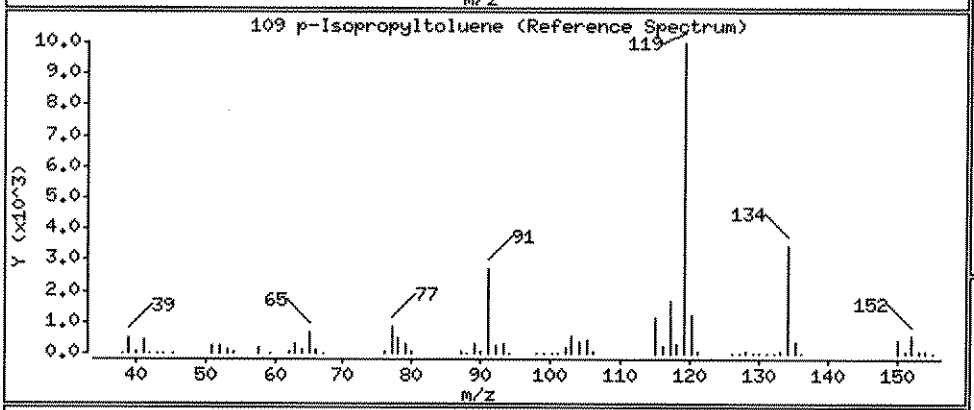
Column diameter: 0.25

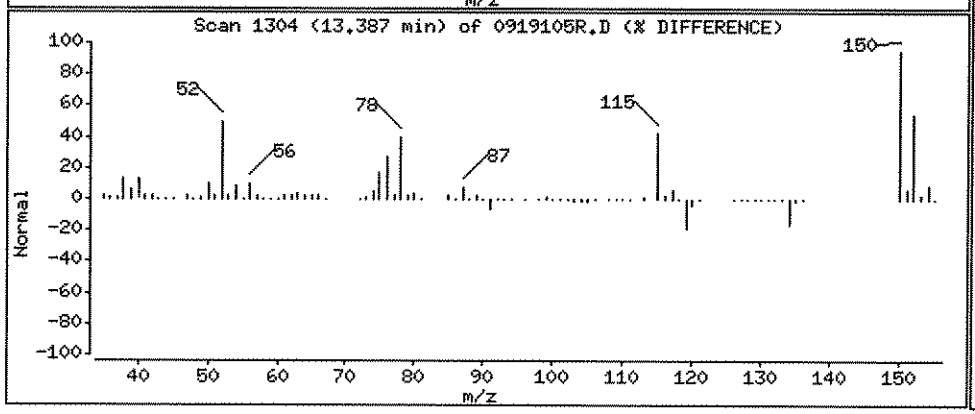
109 p-Isopropyltoluene

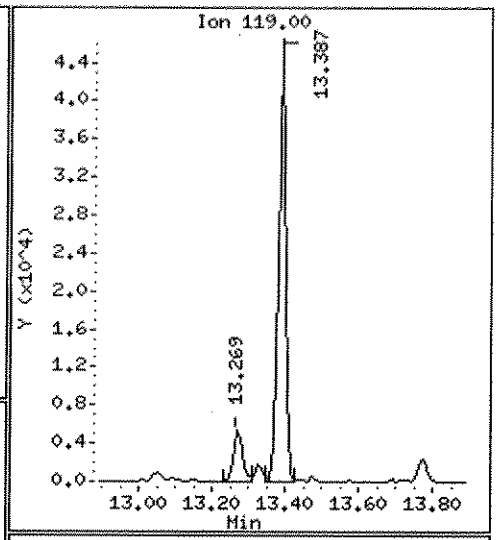
Concentration: 6.388 ug/Kg

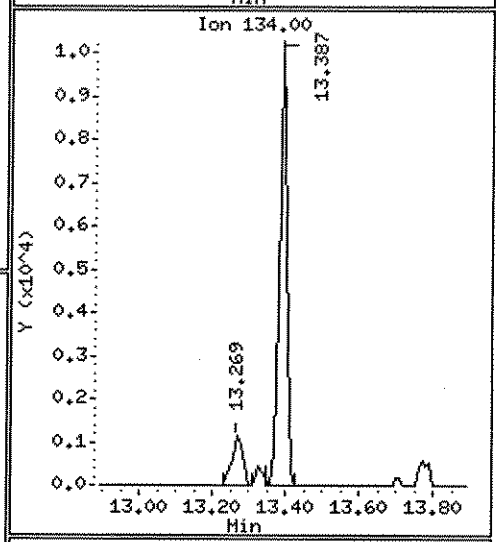


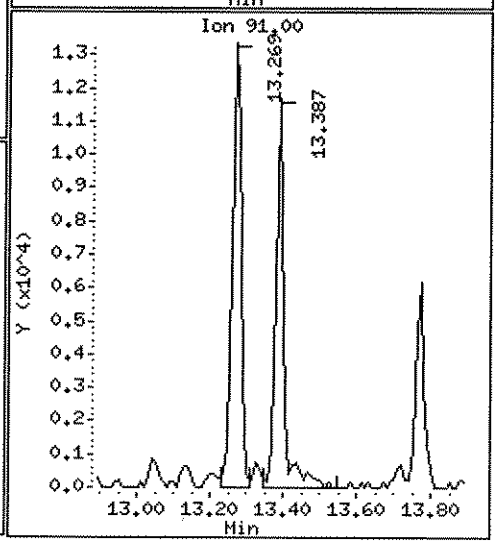












Data File: \\ELABNSH05\TARGET\chem\voa5.i\092811V5.b\0928LCD1.D
Report Date: 29-Sep-2011 06:01

Laboratory Name

Data file : \\ELABNSH05\TARGET\chem\voa5.i\092811V5.b\0928LCD1.D
Lab Smp Id: 1I28025-BSD1 Client Smp ID: 1I28025-BSD1
Inj Date : 28-SEP-2011 21:30 MS Autotune Date: 28-JUL-1998 05:19
Operator : ADM Inst ID: voa5.i
Smp Info : 1I28025-BSD1;;;;;
Misc Info : ;3;LCSD;;;8260.sub;
Comment :
Method : \\ELABNSH05\TARGET\chem\voa5.i\092811V5.b\VS5SUR.m
Meth Date : 29-Sep-2011 05:58 amonteiro Quant Type: ISTD
Cal Date : 22-SEP-2011 14:24 Cal File: 0922CAL1.D
Als bottle: 25 QC Sample: LCSD
Dil Factor: 1.00000
Integrator: HP RTE Compound Sublist: 8260.sub
Target Version: 4.04
Processing Host: TARGET02_VM

Concentration Formula: Amt * DF * 5*Uf/(Ws*(Solids/100))

Name	Value	Description
DF	1.000	Dilution Factor
Uf	1.000	unit correction factor
Ws	5.000	Weight of sample extracted (g)
Solids	100.000	Percent Solids

MG 9/29/11

Pad 9-25-11

Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS ON-COLUMN (ug/Kg)	FINAL (ug/Kg)
* 55 Fluorobenzene	96	7.866	7.865	(1.000)	660986	30.0000	
1 Dichlorodifluoromethane	85	1.985	1.984	(0.252)	274619	50.1740	50.17
2 Chloromethane	50	2.192	2.191	(0.279)	326335	47.6718	47.67
3 Vinyl chloride	62	2.330	2.329	(0.296)	235042	63.9437	63.94(R)
4 Bromomethane	94	2.773	2.772	(0.353)	223716	85.1340	85.13(R)
5 Chloroethane	64	2.901	2.900	(0.369)	169197	45.6058	45.60
7 Trichlorofluoromethane	101	3.394	3.393	(0.431)	395819	43.6316	43.63
11 Ethyl Ether	59	3.798	3.806	(0.483)	268024	49.8548	49.85
10 Acetonitrile	41	3.758	3.757	(0.478)	415335	437.092	437.1
13 Trichlorotrifluoroethane	101	4.241	4.240	(0.539)	254939	39.0421	39.04
8 Acrolein	56	3.571	3.570	(0.454)	233023	293.058	293.0
19 Allyl chloride	76	4.596	4.604	(0.584)	171081	49.7976	49.80
12 1,1-Dichloroethene	96	4.162	4.161	(0.529)	251381	42.1888	42.19
9 Acetone	43	3.680	3.678	(0.468)	319434	156.524	156.5
14 t-Butyl alcohol	59	4.290	4.299	(0.545)	157281	290.925	290.9

Data File: \\ELABNSH05\TARGET\chem\voa5.i\092811V5.b\0928LCD1.D
Report Date: 29-Sep-2011 06:01

	Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS ON-COLUMN (ug/Kg)	FINAL (ug/Kg)
	16 Iodomethane	142	4.359	4.358	(0.554)	189964	45.2763	45.28
	22 Carbon disulfide	76	4.704	4.703	(0.598)	854115	36.3587	36.36
	20 Methylene chloride	84	4.645	4.644	(0.591)	371179	48.2697	48.27
	18 Acrylonitrile	53	4.517	4.516	(0.574)	487930	245.142	245.1
	24 trans-1,2-Dichloroethene	96	5.315	5.323	(0.676)	284482	44.8748	44.87
	23 MTBE	73	5.305	5.313	(0.674)	642272	43.9945	43.99
	26 1,1-Dichloroethane	63	5.689	5.698	(0.723)	595977	43.8439	43.84
	28 Propionitrile	54	5.856	5.855	(0.745)	351211	489.119	489.1
	27 Vinyl acetate	43	5.758	5.766	(0.732)	1144635	105.476	105.5
	30 Chloroprene	53	5.955	5.963	(0.757)	460711	42.4344	42.43
	33 Di-isopropyl ether	45	6.063	6.062	(0.771)	1328636	45.2254	45.22
	37 cis-1,2-Dichloroethene	96	6.408	6.407	(0.815)	323496	48.3100	48.31
M	6 1,2-Dichloroethene(total)	96				607978	93.1848	93.18
	34 2-Butanone	43	6.132	6.141	(0.780)	446291	124.283	124.3
	36 Methacrylonitrile	41	6.310	6.318	(0.802)	1704110	463.635	463.6
	29 Hexane	57	5.906	5.904	(0.751)	544411	47.0596	47.06
	42 Bromochloromethane	128	6.684	6.692	(0.850)	132118	48.5323	48.53
	43 Isobutyl alcohol	42	6.743	6.752	(0.857)	138123	848.653	848.6
	45 Tetrahydrofuran	42	6.871	6.870	(0.874)	86990	45.5037	45.50
	46 tert-Amyl alcohol	59	7.029	7.027	(0.894)	113346	263.889	263.9
	41 Chloroform	83	6.664	6.663	(0.847)	518199	44.8581	44.86
	17 Methyl acetate	43	4.497	4.506	(0.572)	216928	43.1380	43.14
$	44 Dibromofluoromethane	111	6.832	6.840	(0.869)	186567	32.9583	32.96
	47 1,1,1-Trichloroethane	97	7.226	7.224	(0.919)	373295	45.1521	45.15
	40 ETBE	59	6.526	6.535	(0.830)	594307	29.3490	29.35(Q)
	51 Cyclohexane	56	7.501	7.500	(0.954)	472036	36.8900	36.89
	52 Carbon tetrachloride	117	7.570	7.569	(0.962)	278699	44.3066	44.31
$	48 1,2-Dichloroethane-d4	102	7.334	7.333	(0.932)	36348	31.2520	31.25
	53 Benzene	78	7.600	7.599	(0.966)	1184435	46.5550	46.56
	54 tert-Amyl Methyl Ether	73	7.787	7.796	(0.990)	273130	16.7805	16.78(R)
	49 1,2-Dichloroethane	62	7.423	7.431	(0.944)	367495	45.7179	45.72
	39 2,2-Dichloropropane	77	6.516	6.515	(0.828)	359437	41.6918	41.69
	50 1,1-Dichloropropene	75	7.442	7.451	(0.946)	402089	42.7036	42.70
	56 Trichloroethene	95	8.368	8.367	(1.064)	304726	43.8543	43.85
	60 1,4-Dioxane	88	8.565	8.564	(1.089)	47878	961.452	961.4
	57 1,2-Dichloropropane	63	8.408	8.416	(1.069)	351174	45.1582	45.16
	58 Dibromomethane	93	8.526	8.525	(1.084)	193264	49.0826	49.08
	59 Methyl methacrylate	41	7.501	7.500	(0.954)	275117	33.9077	33.91
	61 Bromodichloromethane	83	8.585	8.594	(1.091)	386772	46.2671	46.27
	62 tert-Amyl Ethyl Ether	59	8.683	8.692	(1.104)	45404	2.87252	2.872(R)
	70 cis-1,3-Dichloropropene	75	9.166	9.165	(1.165)	474272	49.5620	49.56
	69 4-Methyl-2-pentanone	43	9.087	9.086	(1.155)	570173	93.5895	93.59
$	71 Toluene-d8	98	9.570	9.569	(0.870)	580772	30.5674	30.57
	74 Toluene	92	9.639	9.647	(0.876)	630381	45.9763	45.98
	73 trans-1,3-Dichloropropene	75	9.639	9.638	(0.876)	352358	42.5891	42.59
	76 Ethyl methacrylate	69	9.826	9.835	(0.893)	373575	53.4469	53.45
	75 1,1,2-Trichloroethane	83	9.797	9.795	(0.891)	214297	48.9387	48.94

Data File: \\ELABNSH05\TARGET\chem\voa5.i\092811V5.b\0928LCD1.D
Report Date: 29-Sep-2011 06:01

Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS ON-COLUMN (ug/Kg)	FINAL (ug/Kg)
80 Tetrachloroethene	166	10.378	10.376	(0.944)	219837	44.5835	44.58
77 2-Hexanone	43	9.944	9.943	(0.904)	481510	109.496	109.5
79 Dibromochloromethane	129	10.269	10.268	(0.934)	230979	46.7778	46.78
81 1,2-Dibromoethane	107	10.476	10.485	(0.953)	235613	50.2527	50.25
63 Methyl cyclohexane	83	8.743	8.741	(1.111)	431195	41.1603	41.16
* 82 Chlorobenzene-d5	82	10.998	10.997	(1.000)	289141	30.0000	
84 Chlorobenzene	112	11.038	11.036	(1.004)	622853	46.4850	46.48
85 1,1,1,2-Tetrachloroethane	131	11.077	11.076	(1.007)	206118	47.8299	47.83
83 1-Chlorohexane	91	11.008	11.007	(1.001)	356052	42.1499	42.15
86 Ethylbenzene	91	11.185	11.184	(1.017)	1167805	46.5049	46.50
87 m,p-Xylene	91	11.304	11.302	(1.028)	1674076	96.3858	96.38
M 119 Xylene(total)	91				2550644	145.180	145.2
89 o-Xylene	91	11.688	11.686	(1.063)	876568	48.7945	48.79
88 Styrene	104	11.658	11.657	(1.060)	686653	49.8486	49.85
90 Bromoform	173	11.757	11.765	(1.069)	148350	51.5236	51.52
91 cis-1,4-Dichloro-2-butene	53	11.845	11.844	(0.884)	72212	45.3837	45.38
94 Isopropylbenzene	105	12.082	12.090	(1.099)	896867	45.9361	45.94
$ 97 Bromofluorobenzene	95	12.190	12.199	(1.108)	266111	33.1878	33.19
93 1,1,2,2-Tetrachloroethane	83	12.003	12.012	(0.896)	277515	44.1245	44.12
78 1,3-Dichloropropane	76	10.003	10.012	(0.910)	416605	48.7833	48.78
95 1,2,3-Trichloropropane	110	12.131	12.130	(1.103)	67045	51.9929	51.99(Q)
96 trans-1,4-Dichloro-2-butene	53	12.151	12.159	(0.907)	72723	43.0467	43.05
99 n-Propylbenzene	91	12.495	12.494	(0.932)	1230413	42.0197	42.02
102 1,3,5-Trimethylbenzene	105	12.673	12.671	(0.946)	741216	44.4459	44.44
106 1,2,4-Trimethylbenzene	105	13.047	13.046	(0.974)	699182	45.3012	45.30
107 sec-Butylbenzene	105	13.244	13.253	(0.988)	1036031	45.2204	45.22
105 tert-Butylbenzene	119	13.018	13.016	(0.971)	668654	45.3693	45.37
108 1,3-Dichlorobenzene	146	13.333	13.341	(0.995)	395423	43.6407	43.64
* 110 1,4-Dichlorobenzene-d4	152	13.402	13.400	(1.000)	219024	30.0000	(Q)
111 1,4-Dichlorobenzene	146	13.431	13.430	(1.002)	391467	45.4897	45.49
113 n-Butylbenzene	91	13.786	13.785	(1.029)	718684	44.3513	44.35
112 1,2-Dichlorobenzene	146	13.746	13.745	(1.026)	380923	45.9624	45.96
117 1,2-Dibromo-3-chloropropane	157	14.387	14.385	(1.073)	37947	46.5540	46.55
118 1,3,5-Trichlorobenzene	180	14.909	14.917	(1.112)	231395	46.3918	46.39
98 Bromobenzene	156	12.358	12.356	(0.922)	243178	43.6362	43.64
100 2-Chlorotoluene	91	12.574	12.583	(0.938)	764590	41.9166	41.92
101 4-Chlorotoluene	91	12.643	12.642	(0.943)	829120	42.8488	42.85
120 1,2,4-Trichlorobenzene	180	15.470	15.469	(1.154)	202602	48.0470	48.05
121 Naphthalene	128	15.618	15.617	(1.165)	301446	45.8342	45.83
109 p-Isopropyltoluene	119	13.382	13.391	(0.999)	661042	44.1611	44.16
122 Hexachlorobutadiene	225	15.746	15.755	(1.175)	150551	45.9563	45.96
123 1,2,3-Trichlorobenzene	180	15.904	15.902	(1.187)	186484	48.6663	48.67

QC Flag Legend

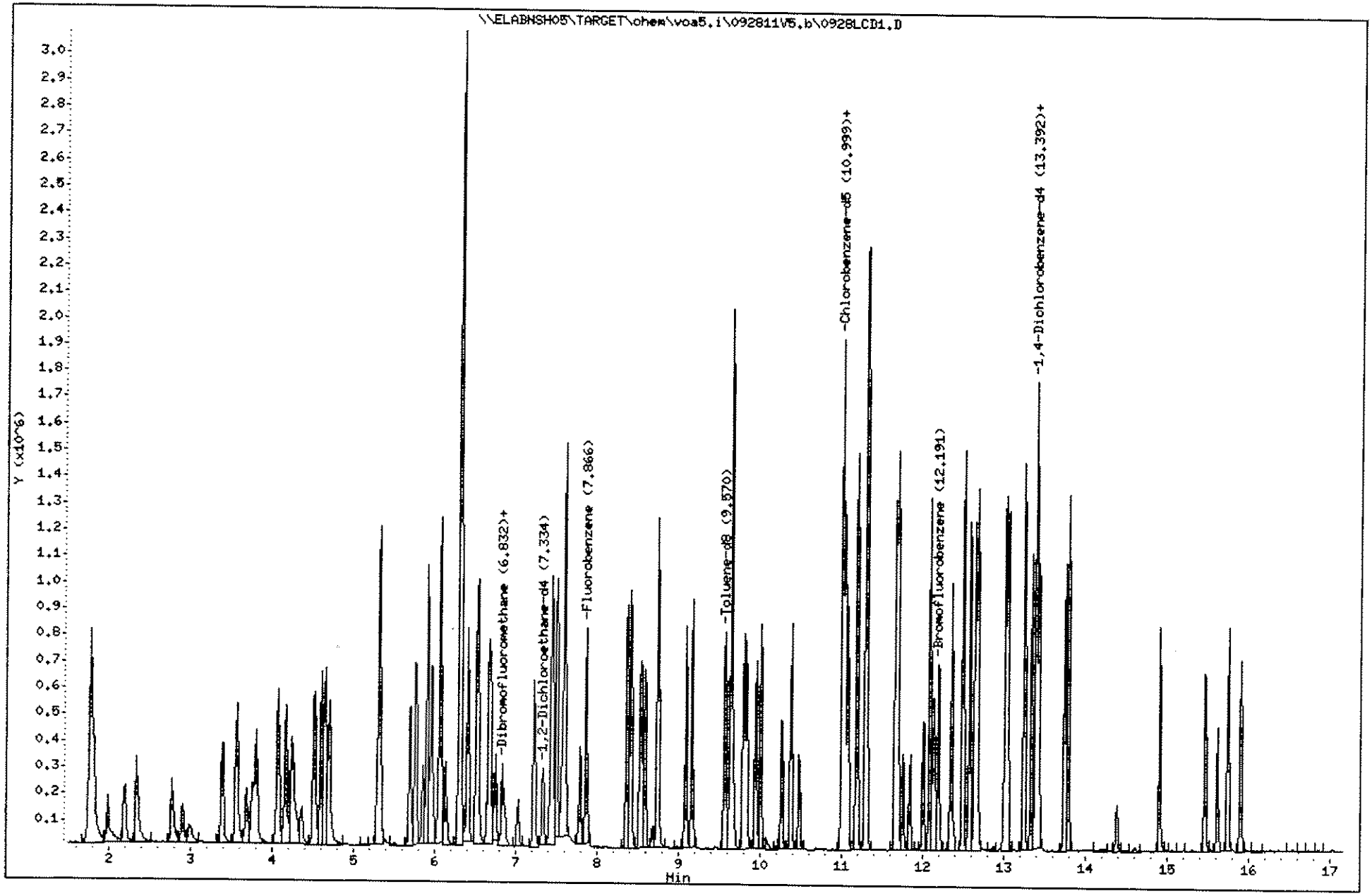
Q - Qualifier signal failed the ratio test.
R - Spike/Surrogate failed recovery limits.

Data File: \\ELABNSH05\TARGET\chem\voa5.i\092811V5.b\0928LCD1.D
Date : 28-SEP-2011 21:30
Client ID: 1I28025-BSD1
Sample Info: 1I28025-BSD1;;;;;

Instrument: voa5.i

Operator: ADH
Column diameter: 0.25

Column phase: RTX-VRX



440

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Comment: 8260B
Operator: ADM
Data Path: d:\DATA\092811V6\
Pre-Seq Cmd:
Post-Seq Cmd:

DJ1003

Method Sections To Run
(X) Full Method
( ) Reprocessing Only

On A Barcode Mismatch
(X) Inject Anyway
( ) Don't Inject

MJ 9/29/11

Line	Type	Vial	DataFile	Method	Sample Name
1	Blank	100	PREBLK1	VW6SUR	BLANK;;;;;
2	Blank	100	PREBLK2	VW6SUR	BLANK;;;;;
3	Blank	100	PREBLK3	VW6SUR	BLANK;;;;;
4	Sample	51	0928TUN1	VW6SUR	SEQ-TUN1 7:55, 9/28
5	DailyCal	1	0928CCV1	VW6SUR	SEQ-CCV1;;;;;
6	Spike	2	0928LCS1	VW6SUR	-BS1;;;;;
7	Sample	3	0928RL1	VW6SUR	SEQ-LCV1;;;;;
8	Blank	100	BLANK1	VW6SUR	BLANK;;;;;
9	Blank	100	0928BLK1	VW6SUR	-BLK1;;;;;
10	Sample	4	0916407	VW6SUR	1109164-07;;;;;
11	Sample	5	0916602	VW6SUR	1109166-02;;;;;
12	Sample	6	0916101	VW6SUR	1109161-01;;;;;
13	Sample	7	0917201	VW6SUR	1109172-01;;;;;
14	Sample	8	0919501	VW6SUR	1109195-01;;;;;
15	Sample	9	0919801	VW6SUR	1109198-01;;;;;
16	Sample	10	0919802	VW6SUR	1109198-02;;;;;
17	Sample	11	0919803	VW6SUR	1109198-03;;;;;
18	Sample	12	0919804	VW6SUR	1109198-04;;;;;
19	Sample	13	0919805	VW6SUR	1109198-05;;;;;
20	Sample	14	0917307	VW6SUR	1109173-07;;;;;
21	Sample	15	0917308	VW6SUR	1109173-08;;;;;
22	Sample	16	0917309	VW6SUR	1109173-09;;;;;
23	Sample	17	0917310	VW6SUR	1109173-10;;;;;
24	Sample	18	0917311	VW6SUR	1109173-11;;;;; -DLA Chlorobenzene RK20K
25	Sample	19	0917312	VW6SUR	1109173-12;;;;; Carryover RN
26	Sample	20	0917313	VW6SUR	1109173-13;;;;; carryover RK
27	Sample	21	0916401D	VW6SUR	1109164-01;50;;;;
28	Sample	22	0916403D	VW6SUR	1109164-03;50;;;;
29	Sample	23	0916405D	VW6SUR	1109164-5;20;;;;
30	Spike	24	0928LCD1	VW6SUR	-BSD1;;;;;
31	Sample	25	0928RL2	VW6SUR	SEQ-LCV2;;;;; 19:38, 9/28
32	Sample	51	928TUN1E	VW6SUR	SEQ-TUN1 20:24, 9/28
33	DailyCal	26	928CCV1E	VW6SUR	SEQ-CCV1;;;;;
34	Spike	27	928LCS1E	VW6SUR	-BS1;;;;;
35	Sample	28	928RL1E	VW6SUR	SEQ-LCV1;;;;;
36	Blank	100	BLANK1E	VW6SUR	BLANK;;;;;
37	Blank	100	928BLK1E	VW6SUR	-BLK1;;;;;
38	Sample	29	0917404	VW6SUR	1109174-04;;;;;
39	Sample	30	0917601	VW6SUR	1109176-01;;;;;
40	Sample	31	0919110	VW6SUR	1109191-10;;;;;
41	Sample	32	0919212	VW6SUR	1109192-12;;;;;
42	Sample	33	0919225	VW6SUR	1109192-25;;;;;
43	Sample	34	0919301	VW6SUR	1109193-01;;;;;

cell H22

T1

T2

Last Modified: Wed Sep 28 13:03:40 2011

Line	Type	Vial	DataFile	Method	Sample Name	
44	Sample	35	0917314	VW6SUR	1109173-14;;;;;	
45	Sample	36	0917315	VW6SUR	1109173-15;;;;;	
46	Sample	37	0917316	VW6SUR	1109173-16;;;;;	
47	Sample	38	0917317	VW6SUR	1109173-17;;;;;	
48	Sample	39	0917318	VW6SUR	1109173-18;;;;;	
49	Sample	40	0917319	VW6SUR	1109173-19;;;;;	
50	Sample	41	0917320	VW6SUR	1109173-20;;;;;	
51	Sample	42	0917321	VW6SUR	1109173-21;;;;;	
52	Sample	43	0917322	VW6SUR	1109173-22;;;;;	
53	Sample	44	0917323	VW6SUR	1109173-23;;;;;	
54	Sample	45	0917324	VW6SUR	1109173-24;;;;;	
55	Sample	46	0917602	VW6SUR	1109176-02;;;;;	
56	Sample	47	0917603	VW6SUR	1109176-03;;;;;	
57	Sample	48	0919302	VW6SUR	1109193-02;;;;;	
58	Sample	49	0917322M	VW6SUR	1109173-22;;;;;	MS
59	Sample	50	0917322S	VW6SUR	1109173-22;;;;;	MSD

P91004

Report Date: 29-Sep-2011 05:25

Calibration History

Method : \\ELABNSH05\TARGET\chem\voa6.i\092811V6E.b\VW6SUR.m
Start Cal Date: 13-SEP-2011 14:57
End Cal Date : 13-SEP-2011 18:30
Last Cal Level: 9
Last Cal Type : Initial Calibration

Initial Calibration

Injection Date	Sublist	Calibration File
Cal Level: 1 , Cal Amount: 0.5000		
13-SEP-2011 14:57	8260	0913CAL1.D
Cal Level: 2 , Cal Amount: 1.000		
13-SEP-2011 15:23	8260	0913CAL2.D
Cal Level: 3 , Cal Amount: 2.000		
13-SEP-2011 15:50	8260	0913CAL3.D
Cal Level: 4 , Cal Amount: 5.000		
13-SEP-2011 16:17	8260	0913CAL4.D
Cal Level: 5 , Cal Amount: 10.00		
13-SEP-2011 16:44	8260	0913CAL5.D
Cal Level: 6 , Cal Amount: 50.00		
13-SEP-2011 17:10	8260	0913CAL6.D
Cal Level: 7 , Cal Amount: 100.0		
13-SEP-2011 17:37	8260	0913CAL7.D
Cal Level: 8 , Cal Amount: 150.0		
13-SEP-2011 18:04	8260	0913CAL8.D
Cal Level: 9 , Cal Amount: 200.0		

13-SEP-2011 18:30	8260	0913CAL9.D

Continuing Calibration

28-SEP-2011 20:51	8260	928CCV1E.D
28-SEP-2011 20:51	8260	928CCV1E.D
28-SEP-2011 08:21	8260	0928CCV1.D
28-SEP-2011 08:21	8260	0928CCV1.D
28-SEP-2011 07:19	8260	0928CCV1.D
27-SEP-2011 19:55	8260	927CCV1E.D
27-SEP-2011 07:17	8260	0927CCV1.D
27-SEP-2011 07:17	8260	0927CCV1.D
26-SEP-2011 07:37	8260	0926CCV1.D
26-SEP-2011 07:37	8260	0926CCV1.D
21-SEP-2011 20:59	8260	921CCV1E.D
21-SEP-2011 08:33	8260	0921CCV1.D
21-SEP-2011 08:33	8260	0921CCV1.D
20-SEP-2011 22:33	8260	920CCV1E.D
20-SEP-2011 10:34	8260	0920CCV1.D
20-SEP-2011 10:34	8260	0920CCV1.D
19-SEP-2011 20:51	8260	919CCV1E.D
19-SEP-2011 08:26	8260	0919CCV1.D
16-SEP-2011 09:36	8260	0916CCV1.D
16-SEP-2011 09:36	8260	0916CCV1.D
16-SEP-2011 07:57	8260	0916CCV1.D
16-SEP-2011 07:57	8260	0916CCV1.D
15-SEP-2011 20:28	8260	915CCV1E.D
15-SEP-2011 08:01	8260	0915CCV1.D
13-SEP-2011 17:37	8260	0913CAL7.D

Data File: \\ELABNSHO5\TARGET\chem\voa6.i\092811V6E.b\928TUN1E.D

Date : 28-SEP-2011 20:24

Client ID: 25ppb BFB

Instrument: voa6.i

Sample Info: SEQ-TUN1

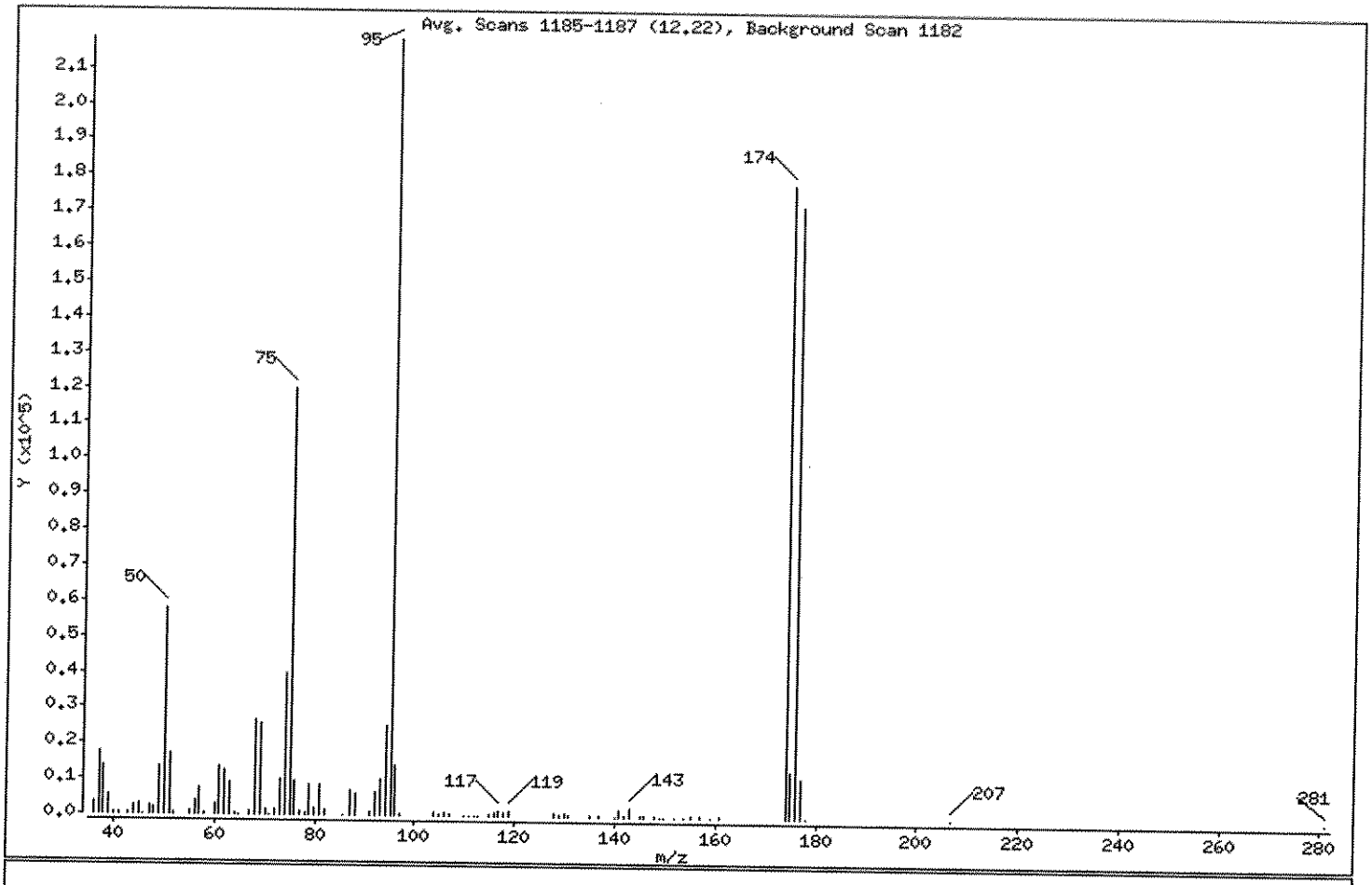
Volume Injected (uL): 1.0

Operator: ADM

Column phase: RTX-VRX

Column diameter: 0.25

1 bfb



m/e	ION ABUNDANCE CRITERIA	% RELATIVE ABUNDANCE
95	Base Peak, 100% relative abundance	100.00
50	15.00 - 40.00% of mass 95	26.40
75	30.00 - 60.00% of mass 95	54.78
96	5.00 - 9.00% of mass 95	6.42
173	Less than 2.00% of mass 174	0.00 (0.00)
174	Greater than 50.00% of mass 95	81.45
175	5.00 - 9.00% of mass 174	5.93 (7.28)
176	95.00 - 101.00% of mass 174	78.82 (96.76)
177	5.00 - 9.00% of mass 176	5.11 (6.48)

09/29/11

09/29/11

Data File: \\ELABNSH05\TARGET\chem\voa6.i\092811V6E.b\928TUN1E.D

Date : 28-SEP-2011 20:24

Client ID: 25ppb BFB | Instrument: voa6.i

Sample Info: SEQ-TUN1

Volume Injected (uL): 1.0 | Operator: ADM

Column phase: RTX-VRX | Column diameter: 0.25

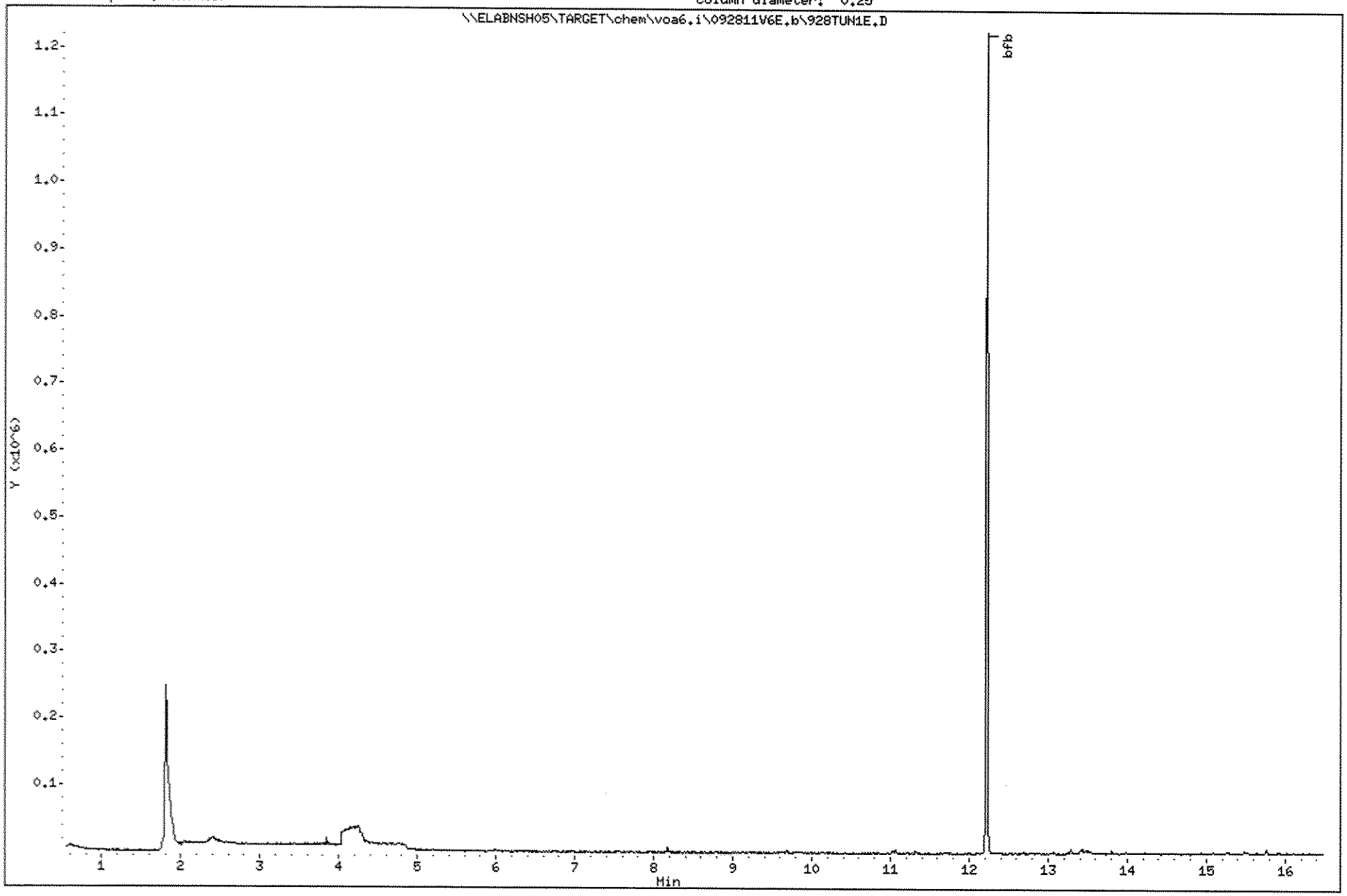
Data File: 928TUN1E.D
Spectrum: Avg. Scans 1185-1187 (12.22), Background Scan 1182
Location of Maximum: 95.05
Number of points: 93

m/z	Y	m/z	Y	m/z	Y	m/z	Y
35.95	3700	63.95	720	93.95	25072	140.90	2258
36.95	17776	64.85	161	95.05	218432	141.85	364
37.95	13744	66.90	769	96.00	14030	142.85	2507
39.00	5621	67.90	26744	96.90	341	144.85	262
40.00	412	69.00	25800	103.80	1182	145.90	402
41.00	302	70.00	1713	104.90	439	147.80	533
42.95	484	70.85	166	105.90	972	148.85	203
43.95	2587	71.95	1399	106.85	324	149.75	217
44.95	3129	72.95	10243	109.90	171	151.95	168
45.80	186	73.90	39656	110.90	231	153.60	154
47.00	2500	75.00	119664	112.00	155	154.90	652
47.90	2144	76.00	9731	112.80	211	156.85	354
49.00	13385	77.00	1059	114.85	279	158.85	209
49.95	57656	77.85	723	115.95	948	160.80	297
50.95	17112	78.85	8500	116.80	1474	173.90	177920
51.95	695	79.85	2132	117.90	871	174.90	12960
55.00	959	80.85	8315	118.90	1323	175.90	172160
56.00	4187	81.90	1601	127.85	960	176.90	11162
56.95	7726	85.65	168	128.95	405	177.95	191
58.05	494	86.95	7187	129.85	1014	206.85	151
59.90	2913	87.95	6224	130.85	331	281.00	173
60.90	13699	90.90	1063	134.85	475		
62.00	12507	91.95	6654	136.85	428		
63.00	8817	92.95	9975	140.00	247		

Data File: \\ELABNSH05\TARGET\chem\voa6.i\092811V6E.b\928TUN1E.D
Date : 28-SEP-2011 20:24
Client ID: 25ppb BFB
Sample Info: SEQ-TUN1
Volume Injected (uL): 1.0
Column phase: RTX-VRX

Instrument: voa6.i

Operator: ADM
Column diameter: 0.25



447

1109191

Data File: \\ELABNSH05\TARGET\chem\voa6.i\092811V6E.b\928CCV1E.D
Report Date: 29-Sep-2011 05:24

Laboratory Name

Data file : \\ELABNSH05\TARGET\chem\voa6.i\092811V6E.b\928CCV1E.D
Lab Smp Id: SEQ-CCV1 Client Smp ID: SEQ-CCV1
Inj Date : 28-SEP-2011 20:51 MS Autotune Date: 13-SEP-2011 09:32
Operator : ADM Inst ID: voa6.i
Smp Info : SEQ-CCV1;;;;;
Misc Info : ;2;;;;8260.sub;
Comment :
Method : \\ELABNSH05\TARGET\chem\voa6.i\092811V6E.b\VW6SUR.m
Meth Date : 29-Sep-2011 05:24 amonteiro Quant Type: ISTD
Cal Date : 13-SEP-2011 18:30 Cal File: 0913CAL9.D
Als bottle: 26 Continuing Calibration Sample
Dil Factor: 1.00000
Integrator: HP RTE Compound Sublist: 8260.sub
Target Version: 4.04
Processing Host: TARGET02_VM

Concentration Formula: Amt * DF * 5*Uf/Vo

Name	Value	Description
DF	1.000	Dilution Factor
Uf	1.000	unit correction factor
Vo	5.000	Volume of sample purged (mL)

mg 9/29/11

Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	AMOUNTS CAL-AMT (ug/L)	AMOUNTS ON-COL (ug/L)
* 55 Fluorobenzene	96	7.927	7.927	(1.000)	1063587	30.0000	
1 Dichlorodifluoromethane	85	2.032	2.032	(0.256)	946107	100.000	106.7
2 Chloromethane	50	2.249	2.249	(0.284)	855515	100.000	81.02
3 Vinyl chloride	62	2.386	2.386	(0.301)	881901	100.000	96.80
4 Bromomethane	94	2.839	2.839	(0.358)	455697	100.000	81.70
5 Chloroethane	64	2.967	2.967	(0.374)	479617	100.000	83.24
6 Trichlorofluoromethane	101	3.469	3.469	(0.438)	1402161	100.000	99.14
10 Ethyl Ether	59	3.912	3.912	(0.493)	626874	100.000	82.82
22 Acetonitrile	41	3.872	3.872	(0.489)	1228310	1000.00	807.3
14 Trichlorotrifluoroethane	101	4.345	4.345	(0.548)	669782	100.000	89.18
7 Acrolein	56	3.676	3.676	(0.464)	690882	500.000	401.6
36 Allyl chloride	41	4.709	4.709	(0.594)	1300220	100.000	78.55
13 1,1-Dichloroethene	96	4.266	4.266	(0.538)	621263	100.000	89.67(Q)
9 Acetone	43	3.794	3.794	(0.479)	902067	200.000	211.0
15 t-Butyl alcohol	59	4.433	4.433	(0.559)	429051	500.000	384.7
16 Iodomethane	142	4.453	4.453	(0.562)	1020110	100.000	91.88

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	Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	AMOUNTS CAL-AMT (ug/L)	AMOUNTS ON-COL (ug/L)
	20 Carbon disulfide	76	4.798	4.798	(0.605)	2022258	100.000	85.80
	19 Methylene chloride	84	4.748	4.748	(0.599)	687567	100.000	79.53
	18 Acrylonitrile	53	4.640	4.640	(0.585)	1490111	500.000	426.1(Q)
	24 trans-1,2-Dichloroethene	96	5.418	5.418	(0.683)	732675	100.000	82.45
	23 MTBE	73	5.418	5.418	(0.683)	2468140	100.000	82.53
	26 1,1-Dichloroethane	63	5.792	5.792	(0.731)	1704244	100.000	85.04
	56 Propionitrile	54	5.969	5.969	(0.753)	1386898	1000.00	764.0
	27 Vinyl acetate	43	5.861	5.861	(0.739)	5369512	200.000	176.9
	69 Chloroprene	53	6.048	6.048	(0.763)	1829784	100.000	90.63
	32 Di-isopropyl ether	45	6.156	6.156	(0.777)	3844225	100.000	78.74
	35 cis-1,2-Dichloroethene	96	6.490	6.490	(0.819)	889487	100.000	88.66(Q)
M	47 1,2-Dichloroethene(total)	96				1622162	200.000	171.1
	33 2-Butanone	43	6.235	6.235	(0.786)	1317316	200.000	171.2
	73 Methacrylonitrile	41	6.412	6.412	(0.809)	7988744	1000.00	807.7
	72 Hexane	57	5.989	5.989	(0.755)	1080490	100.000	88.79
	40 Bromochloromethane	128	6.766	6.766	(0.854)	468794	100.000	94.08
	84 Isobutyl alcohol	43	6.845	6.845	(0.863)	899412	2000.00	1471
	42 Tetrahydrofuran	42	6.953	6.953	(0.877)	325179	100.000	78.11
	43 tert-Amyl alcohol	59	7.120	7.120	(0.898)	374167	500.000	384.4
	39 Chloroform	83	6.746	6.746	(0.851)	1701160	100.000	91.95
	17 Methyl acetate	43	4.630	4.630	(0.584)	666846	100.000	71.86
$	41 Dibromofluoromethane	111	6.914	6.914	(0.872)	334414	30.0000	30.28
	44 1,1,1-Trichloroethane	97	7.298	7.298	(0.921)	1511843	100.000	102.4
	38 ETBE	59	6.618	6.618	(0.835)	3407135	100.000	83.71
	49 Cyclohexane	56	7.563	7.563	(0.954)	1426676	100.000	79.46
	51 Carbon tetrachloride	117	7.632	7.632	(0.963)	1287680	100.000	105.4
$	45 1,2-Dichloroethane-d4	102	7.406	7.406	(0.934)	68505	30.0000	29.74
	52 Benzene	78	7.672	7.672	(0.968)	3186410	100.000	85.40
	54 tert-Amyl Methyl Ether	73	7.859	7.859	(0.991)	2831945	100.000	86.32
	46 1,2-Dichloroethane	62	7.494	7.494	(0.945)	1864279	100.000	99.77
	37 2,2-Dichloropropane	77	6.599	6.599	(0.832)	1348823	100.000	89.22
	48 1,1-Dichloropropene	75	7.514	7.514	(0.948)	1259051	100.000	89.21(Q)
	58 Trichloroethene	95	8.420	8.420	(1.062)	914432	100.000	94.21
	62 1,4-Dioxane	88	8.626	8.626	(1.088)	193623	2000.00	1915(Q)
	59 1,2-Dichloropropane	63	8.469	8.469	(1.068)	944246	100.000	84.05
	61 Dibromomethane	93	8.577	8.577	(1.082)	653203	100.000	93.47
	50 Methyl methacrylate	41	8.607	8.607	(1.086)	1240659	100.000	85.84
	63 Bromodichloromethane	83	8.646	8.646	(1.091)	1423477	100.000	97.09
	64 tert-Amyl Ethyl Ether	59	8.734	8.734	(1.102)	2739173	100.000	84.79
	68 2-Chloroethyl vinyl ether	63	9.000	9.000	(1.135)	1330539	200.000	186.4
	71 cis-1,3-Dichloropropene	75	9.217	9.217	(1.163)	1508379	100.000	90.12
	70 4-Methyl-2-pentanone	43	9.138	9.138	(1.153)	2520701	200.000	168.8
$	75 Toluene-d8	98	9.610	9.610	(0.871)	1044353	30.0000	32.75
	77 Toluene	92	9.689	9.689	(0.879)	1963046	100.000	92.66
	76 trans-1,3-Dichloropropene	75	9.679	9.679	(0.878)	1646918	100.000	95.36
	79 Ethyl methacrylate	69	9.876	9.876	(0.896)	1354670	100.000	89.76
	78 1,1,2-Trichloroethane	83	9.837	9.837	(0.892)	672433	100.000	90.94

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Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	AMOUNTS CAL-AMT (ug/L)	AMOUNTS ON-COL (ug/L)
83 Tetrachloroethene	166	10.417	10.417	(0.945)	804031	100.000	103.0
80 2-Hexanone	43	9.984	9.984	(0.905)	1904481	200.000	179.9
82 Dibromochloromethane	129	10.309	10.309	(0.935)	1056814	100.000	107.9
85 1,2-Dibromoethane	107	10.516	10.516	(0.954)	949935	100.000	100.0
65 Methyl cyclohexane	83	8.794	8.794	(1.109)	1094383	100.000	91.30
* 86 Chlorobenzene-d5	82	11.028	11.028	(1.000)	484964	30.0000	
88 Chlorobenzene	112	11.067	11.067	(1.004)	2425472	100.000	101.0
89 1,1,1,2-Tetrachloroethane	131	11.106	11.106	(1.007)	881182	100.000	103.7
87 1-Chlorohexane	91	11.037	11.037	(1.001)	1104608	100.000	86.43
90 Ethylbenzene	91	11.215	11.215	(1.017)	4137833	100.000	99.60
91 m,p-Xylene	91	11.323	11.323	(1.027)	6730477	200.000	209.8(A)
M 127 Xylene(total)	91				10149983	300.000	310.8
93 o-Xylene	91	11.717	11.717	(1.062)	3419506	100.000	101.0
92 Styrene	104	11.687	11.687	(1.060)	2735722	100.000	103.2
95 Bromoform	173	11.795	11.795	(1.070)	655508	100.000	120.6
125 cis-1,4-Dichloro-2-butene	75	11.874	11.874	(0.885)	361805	100.000	91.67
97 Isopropylbenzene	105	12.110	12.110	(1.098)	3688779	100.000	106.6
$ 99 Bromofluorobenzene	95	12.219	12.219	(1.108)	446964	30.0000	31.47
96 1,1,2,2-Tetrachloroethane	83	12.041	12.041	(0.897)	1104929	100.000	95.68
81 1,3-Dichloropropane	76	10.053	10.053	(0.912)	1486758	100.000	96.04
98 1,2,3-Trichloropropane	110	12.159	12.159	(1.103)	353027	100.000	106.6
124 trans-1,4-Dichloro-2-butene	53	12.179	12.179	(0.908)	538158	100.000	99.82
101 n-Propylbenzene	91	12.514	12.514	(0.933)	4672041	100.000	104.7
105 1,3,5-Trimethylbenzene	105	12.701	12.701	(0.946)	3354161	100.000	111.0
108 1,2,4-Trimethylbenzene	105	13.065	13.065	(0.974)	3451159	100.000	110.5
109 sec-Butylbenzene	105	13.272	13.272	(0.989)	3831416	100.000	110.4
107 tert-Butylbenzene	119	13.035	13.035	(0.971)	3011090	100.000	111.3
110 1,3-Dichlorobenzene	146	13.360	13.360	(0.996)	1778500	100.000	109.0
* 112 1,4-Dichlorobenzene-d4	152	13.419	13.419	(1.000)	400064	30.0000	(Q)
113 1,4-Dichlorobenzene	146	13.449	13.449	(1.002)	1805695	100.000	109.0
115 n-Butylbenzene	91	13.803	13.803	(1.029)	2865907	100.000	109.3
114 1,2-Dichlorobenzene	146	13.764	13.764	(1.026)	1701371	100.000	109.4
118 1,2-Dibromo-3-chloropropane	157	14.413	14.413	(1.074)	217338	100.000	113.7
119 1,3,5-Trichlorobenzene	180	14.935	14.935	(1.113)	1142812	100.000	119.4
100 Bromobenzene	156	12.386	12.386	(0.923)	945587	100.000	103.9
102 2-Chlorotoluene	91	12.602	12.602	(0.939)	2914500	100.000	102.9
103 4-Chlorotoluene	91	12.661	12.661	(0.944)	3456886	100.000	105.8
120 1,2,4-Trichlorobenzene	180	15.486	15.486	(1.154)	1094413	100.000	123.9
121 Naphthalene	128	15.634	15.634	(1.165)	2971020	100.000	140.4(A)
111 p-Isopropyltoluene	119	13.409	13.409	(0.999)	3280199	100.000	112.8
122 Hexachlorobutadiene	225	15.762	15.762	(1.175)	494590	100.000	123.4
123 1,2,3-Trichlorobenzene	180	15.919	15.919	(1.186)	1031007	100.000	137.7

QC Flag Legend

A - Target compound detected but, quantitated amount exceeded maximum amount.

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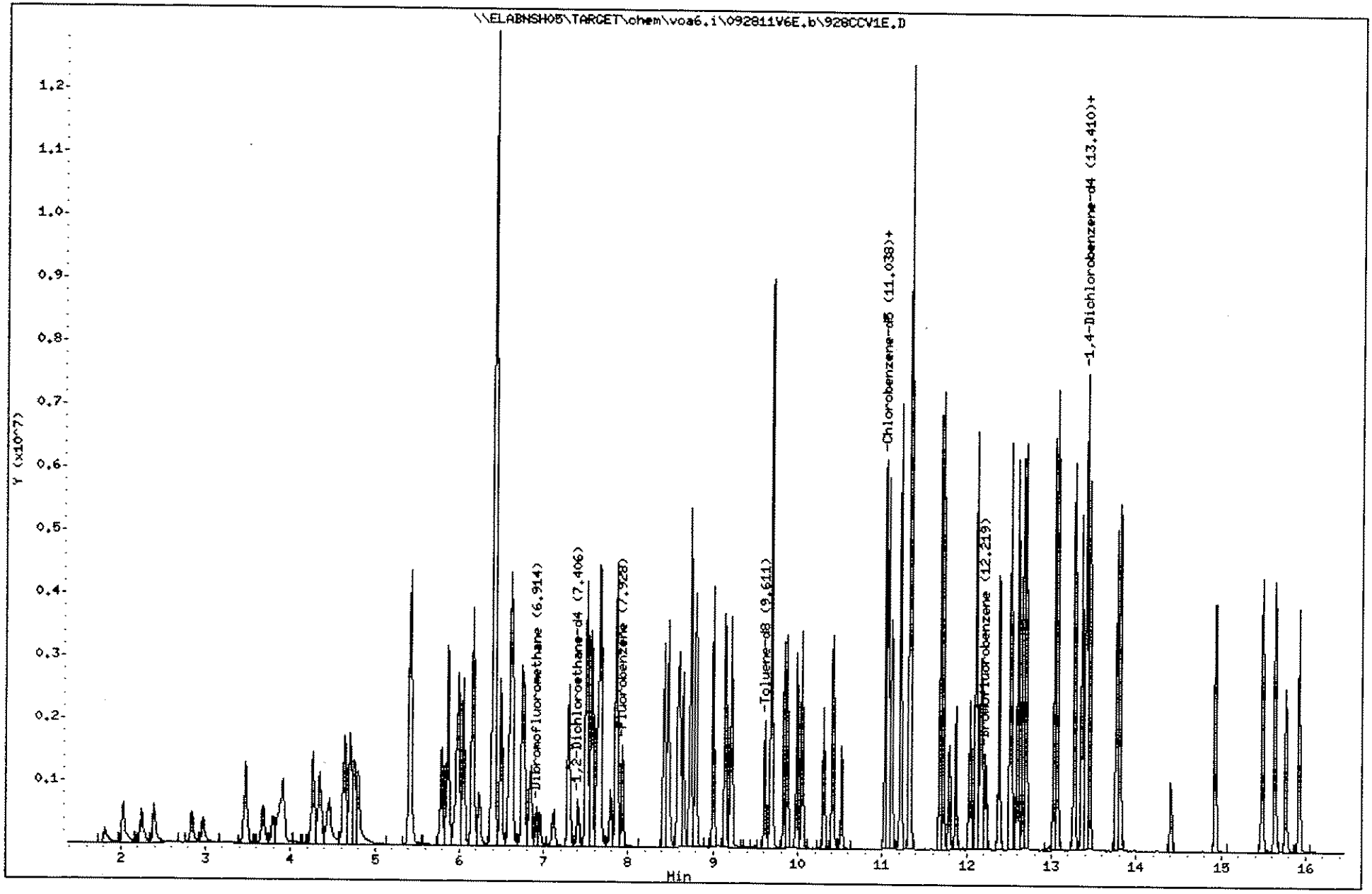
QC Flag Legend

Q - Qualifier signal failed the ratio test.

Data File: \\ELABNSH05\TARGET\chem\voa6.i\092811V6E.b\928CCV1E.D
Date : 28-SEP-2011 20:51
Client ID: SEQ-CCV1
Sample Info: SEQ-CCV1;;;;;
Purge Volume: 5.0
Column phase: RTX-VRX

Instrument: voa6.i

Operator: ADM
Column diameter: 0.25



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Data File: \\ELABNSH05\TARGET\chem\voa6.i\092811V6E.b\928LCS1E.D
Report Date: 29-Sep-2011 05:24

Laboratory Name

Data file : \\ELABNSH05\TARGET\chem\voa6.i\092811V6E.b\928LCS1E.D
Lab Smp Id: 1I28022-BS1 Client Smp ID: 1I28022-BS1
Inj Date : 28-SEP-2011 21:18 MS Autotune Date: 13-SEP-2011 09:32
Operator : ADM Inst ID: voa6.i
Smp Info : 1I28022-BS1;;;;;
Misc Info : ;3;LCS;;;8260.sub;
Comment :
Method : \\ELABNSH05\TARGET\chem\voa6.i\092811V6E.b\VW6SUR.m
Meth Date : 29-Sep-2011 05:24 amonteiro Quant Type: ISTD
Cal Date : 13-SEP-2011 18:30 Cal File: 0913CAL9.D
Als bottle: 27 QC Sample: LCS
Dil Factor: 1.00000
Integrator: HP RTE Compound Sublist: 8260.sub
Target Version: 4.04
Processing Host: TARGET02_VM

Concentration Formula: Amt * DF * 5*Uf/Vo

Name	Value	Description
DF	1.000	Dilution Factor
Uf	1.000	unit correction factor
Vo	5.000	Volume of sample purged (mL)

Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS ON-COLUMN (ug/L)	FINAL (ug/L)
* 55 Fluorobenzene	96	7.924	7.927	(1.000)	1103773	30.0000	
1 Dichlorodifluoromethane	85	2.028	2.032	(0.256)	468756	50.9434	50.94
2 Chloromethane	50	2.245	2.249	(0.283)	464510	42.3918	42.39
3 Vinyl chloride	62	2.392	2.386	(0.302)	499171	52.7961	52.80
4 Bromomethane	94	2.835	2.839	(0.358)	230624	39.8405	39.84
5 Chloroethane	64	2.973	2.967	(0.375)	279342	46.7145	46.71
6 Trichlorofluoromethane	101	3.475	3.469	(0.439)	726231	49.4763	49.48
10 Ethyl Ether	59	3.918	3.912	(0.494)	350812	44.6582	44.66
22 Acetonitrile	41	3.879	3.872	(0.490)	662780	419.766	419.8
14 Trichlorotrifluoroethane	101	4.351	4.345	(0.549)	323728	41.5321	41.53
7 Acrolein	56	3.682	3.676	(0.465)	444416	248.913	248.9
36 Allyl chloride	41	4.705	4.709	(0.594)	755023	43.9526	43.95
13 1,1-Dichloroethene	96	4.272	4.266	(0.539)	310070	43.1237	43.12(Q)
9 Acetone	43	3.800	3.794	(0.480)	352492	79.4686	79.47
15 t-Butyl alcohol	59	4.430	4.433	(0.559)	234037	202.188	202.2
16 Iodomethane	142	4.469	4.453	(0.564)	425190	37.8708	37.87

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	Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS ON-COLUMN (ug/L)	CONCENTRATIONS FINAL (ug/L)
	20 Carbon disulfide	76	4.804	4.798	(0.606)	895038	36.5924	36.59
	19 Methylene chloride	84	4.754	4.748	(0.600)	362076	40.3573	40.36
	18 Acrylonitrile	53	4.636	4.640	(0.585)	811872	223.713	223.7(Q)
	24 trans-1,2-Dichloroethene	96	5.414	5.418	(0.683)	371132	40.2449	40.24
	23 MTBE	73	5.424	5.418	(0.685)	1258460	40.5471	40.55
	26 1,1-Dichloroethane	63	5.788	5.792	(0.730)	862804	41.4867	41.49
	56 Propionitrile	54	5.965	5.969	(0.753)	702239	372.741	372.7
	27 Vinyl acetate	43	5.867	5.861	(0.740)	2844472	90.2971	90.30
	69 Chloroprene	53	6.044	6.048	(0.763)	877647	41.8889	41.89
	32 Di-isopropyl ether	45	6.162	6.156	(0.778)	1974085	38.9653	38.96
	35 cis-1,2-Dichloroethene	96	6.487	6.490	(0.819)	441816	42.4370	42.44(Q)
M	47 1,2-Dichloroethene(total)	96				812948	82.6819	82.68
	33 2-Butanone	43	6.241	6.235	(0.788)	575000	71.9867	71.99
	73 Methacrylonitrile	41	6.408	6.412	(0.809)	4071314	396.649	396.6
	72 Hexane	57	5.995	5.989	(0.757)	555263	43.9668	43.97
	40 Bromochloromethane	128	6.772	6.766	(0.855)	236899	45.8124	45.81
	84 Isobutyl alcohol	43	6.841	6.845	(0.863)	434081	683.982	684.0
	42 Tetrahydrofuran	42	6.959	6.953	(0.878)	150685	34.8795	34.88
	43 tert-Amyl alcohol	59	7.117	7.120	(0.898)	187795	185.911	185.9
	39 Chloroform	83	6.743	6.746	(0.851)	850680	44.3062	44.31
	17 Methyl acetate	43	4.627	4.630	(0.584)	361348	37.5194	37.52
$	41 Dibromofluoromethane	111	6.910	6.914	(0.872)	343758	29.9883	29.99
	44 1,1,1-Trichloroethane	97	7.294	7.298	(0.921)	741988	48.4073	48.41
	38 ETBE	59	6.624	6.618	(0.836)	1742487	41.2513	41.25
	49 Cyclohexane	56	7.569	7.563	(0.955)	647750	34.7622	34.76
	51 Carbon tetrachloride	117	7.638	7.632	(0.964)	620070	48.9004	48.90
$	45 1,2-Dichloroethane-d4	102	7.402	7.406	(0.934)	68634	28.7158	28.72
	52 Benzene	78	7.668	7.672	(0.968)	1590361	41.0717	41.07
	54 tert-Amyl Methyl Ether	73	7.855	7.859	(0.991)	1293037	37.9795	37.98
	46 1,2-Dichloroethane	62	7.500	7.494	(0.947)	897570	46.2874	46.29
	37 2,2-Dichloropropane	77	6.595	6.599	(0.832)	666007	42.4498	42.45
	48 1,1-Dichloropropene	75	7.510	7.514	(0.948)	616224	42.0723	42.07(Q)
	58 Trichloroethene	95	8.416	8.420	(1.062)	442133	43.8912	43.89
	62 1,4-Dioxane	88	8.622	8.626	(1.088)	93356	889.803	889.8(Q)
	59 1,2-Dichloropropane	63	8.465	8.469	(1.068)	458732	39.3456	39.34
	61 Dibromomethane	93	8.583	8.577	(1.083)	315486	43.4998	43.50
	50 Methyl methacrylate	41	8.603	8.607	(1.086)	611755	40.7879	40.79
	63 Bromodichloromethane	83	8.642	8.646	(1.091)	653435	42.9442	42.94
	64 tert-Amyl Ethyl Ether	59	8.731	8.734	(1.102)	1338668	39.9295	39.93
	68 2-Chloroethyl vinyl ether	63	8.996	9.000	(1.135)	23663	3.19493	3.195(a)
	71 cis-1,3-Dichloropropene	75	9.213	9.217	(1.163)	745388	42.9133	42.91
	70 4-Methyl-2-pentanone	43	9.144	9.138	(1.154)	1182917	76.3382	76.34
$	75 Toluene-d8	98	9.607	9.610	(0.871)	1043779	32.7649	32.76
	77 Toluene	92	9.685	9.689	(0.878)	967361	45.7076	45.71
	76 trans-1,3-Dichloropropene	75	9.685	9.679	(0.878)	716838	41.5455	41.54
	79 Ethyl methacrylate	69	9.872	9.876	(0.895)	656154	43.5205	43.52
	78 1,1,2-Trichloroethane	83	9.833	9.837	(0.891)	332001	44.9402	44.94

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Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS ON-COLUMN (ug/L)	FINAL (ug/L)
83 Tetrachloroethene	166	10.414	10.417	(0.944)	383833	49.2087	49.21
80 2-Hexanone	43	9.981	9.984	(0.905)	832395	78.6865	78.69
82 Dibromochloromethane	129	10.305	10.309	(0.934)	482879	49.3396	49.34
85 1,2-Dibromoethane	107	10.522	10.516	(0.954)	453366	47.7791	47.78
65 Methyl cyclohexane	83	8.790	8.794	(1.109)	498983	40.1132	40.11
* 86 Chlorobenzene-d5	82	11.034	11.028	(1.000)	484504	30.0000	
88 Chlorobenzene	112	11.063	11.067	(1.003)	1156052	48.1678	48.17
89 1,1,1,2-Tetrachloroethane	131	11.112	11.106	(1.007)	411877	48.5164	48.52
87 1-Chlorohexane	91	11.034	11.037	(1.000)	526245	41.2169	41.22
90 Ethylbenzene	91	11.211	11.215	(1.016)	1990982	47.9686	47.97
91 m,p-Xylene	91	11.329	11.323	(1.027)	3141934	98.0459	98.04
M 127 Xylene(total)	91				4779555	146.458	146.4
93 o-Xylene	91	11.713	11.717	(1.062)	1637621	48.4123	48.41
92 Styrene	104	11.683	11.687	(1.059)	1255470	47.4081	47.41
95 Bromoform	173	11.792	11.795	(1.069)	296760	54.6524	54.65
125 cis-1,4-Dichloro-2-butene	75	11.870	11.874	(0.885)	183804	46.3807	46.38
97 Isopropylbenzene	105	12.106	12.110	(1.097)	1651274	47.7907	47.79
$ 99 Bromofluorobenzene	95	12.225	12.219	(1.108)	441316	31.1060	31.10
96 1,1,2,2-Tetrachloroethane	83	12.038	12.041	(0.897)	529496	45.6668	45.67
81 1,3-Dichloropropane	76	10.049	10.053	(0.911)	724893	46.8728	46.87
98 1,2,3-Trichloropropane	110	12.166	12.159	(1.103)	165233	49.9690	49.97
124 trans-1,4-Dichloro-2-butene	53	12.185	12.179	(0.908)	253728	46.8693	46.87
101 n-Propylbenzene	91	12.520	12.514	(0.933)	2185385	48.7805	48.78
105 1,3,5-Trimethylbenzene	105	12.697	12.701	(0.946)	1633483	53.8557	53.86
108 1,2,4-Trimethylbenzene	105	13.071	13.065	(0.974)	1610429	51.3461	51.35
109 sec-Butylbenzene	105	13.268	13.272	(0.989)	1810934	51.9971	52.00
107 tert-Butylbenzene	119	13.032	13.035	(0.971)	1415344	52.0915	52.09
110 1,3-Dichlorobenzene	146	13.356	13.360	(0.996)	836633	51.0863	51.09
* 112 1,4-Dichlorobenzene-d4	152	13.415	13.419	(1.000)	401695	30.0000	(Q)
113 1,4-Dichlorobenzene	146	13.445	13.449	(1.002)	861056	51.7641	51.76
115 n-Butylbenzene	91	13.809	13.803	(1.029)	1328414	50.4625	50.46
114 1,2-Dichlorobenzene	146	13.770	13.764	(1.026)	811518	51.9794	51.98
118 1,2-Dibromo-3-chloropropane	157	14.409	14.413	(1.074)	98842	51.4931	51.49
119 1,3,5-Trichlorobenzene	180	14.931	14.935	(1.113)	551539	57.3986	57.40
100 Bromobenzene	156	12.382	12.386	(0.923)	457685	50.0724	50.07
102 2-Chlorotoluene	91	12.599	12.602	(0.939)	1416033	49.7932	49.79
103 4-Chlorotoluene	91	12.667	12.661	(0.944)	1666761	50.8154	50.82
120 1,2,4-Trichlorobenzene	180	15.482	15.486	(1.154)	527267	59.4331	59.43
121 Naphthalene	128	15.640	15.634	(1.166)	1410301	66.3674	66.37
111 p-Isopropyltoluene	119	13.406	13.409	(0.999)	1444762	49.4973	49.50
122 Hexachlorobutadiene	225	15.768	15.762	(1.175)	245884	61.1215	61.12
123 1,2,3-Trichlorobenzene	180	15.925	15.919	(1.187)	482104	64.1246	64.12

QC Flag Legend

a - Target compound detected but, quantitated amount Below Limit Of Quantitation(BLOQ).

Data File: \\ELABNSH05\TARGET\chem\voa6.i\092811V6E.b\928LCS1E.D
Report Date: 29-Sep-2011 05:24

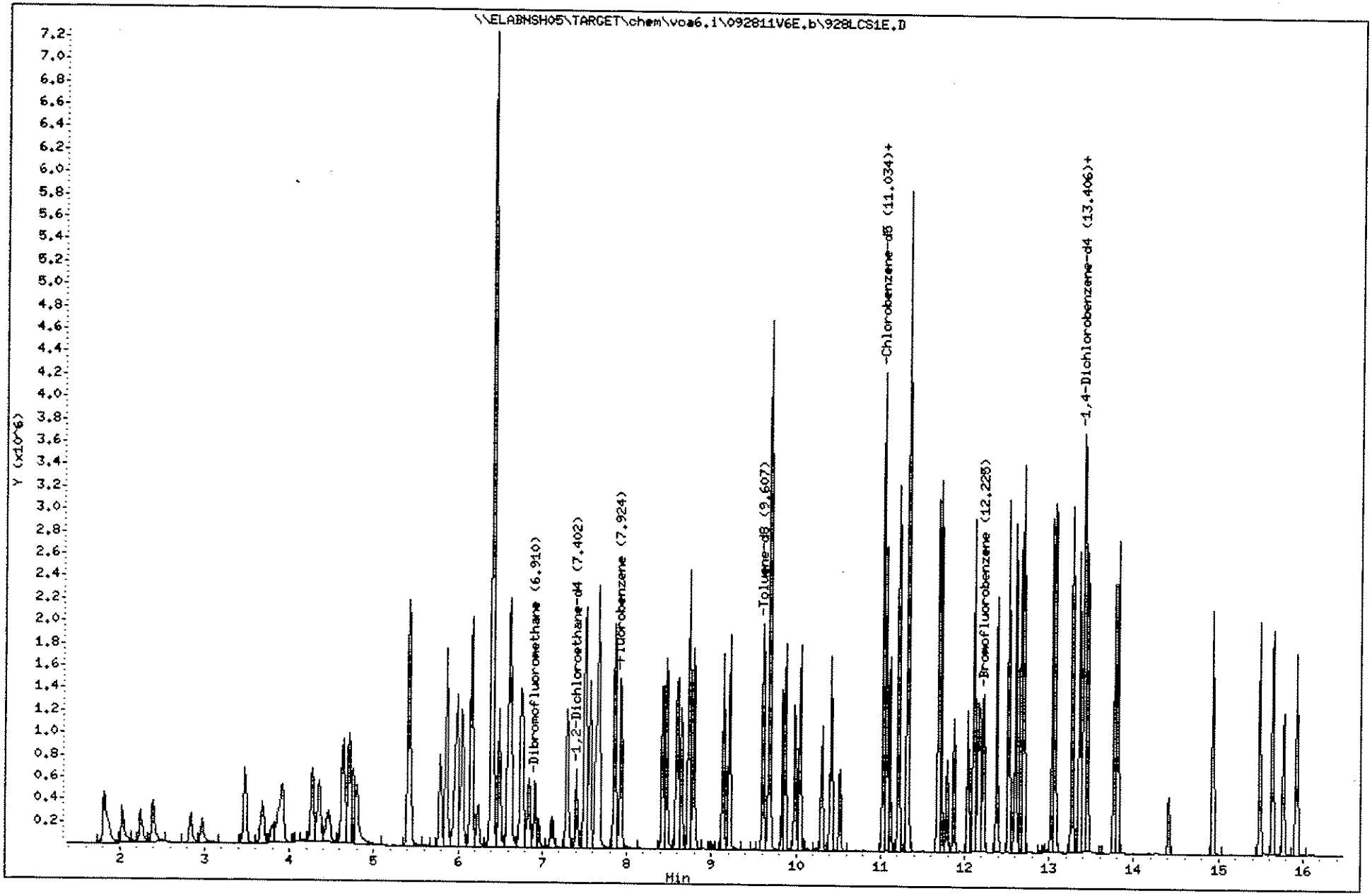
QC Flag Legend

Q - Qualifier signal failed the ratio test.

Data File: \\ELABNSH05\TARGET\chem\voa6.i\092811V6E.b\928LCS1E.D
Date : 28-SEP-2011 21:18
Client ID: 1I28022-BS1
Sample Info: 1I28022-BS1;;;;;
Purge Volume: 5.0
Column phase: RTX-VRX

Instrument: voa6.i

Operator: ADM
Column diameter: 0.25



457

1109191

Data File: \\ELABNSH05\TARGET\chem\voa6.i\092811V6E.b\928BLK1E.D
Report Date: 29-Sep-2011 05:24

Laboratory Name

Data file : \\ELABNSH05\TARGET\chem\voa6.i\092811V6E.b\928BLK1E.D
Lab Smp Id: 1I28022-BLK1 Client Smp ID: 1I28022-BLK1
Inj Date : 28-SEP-2011 22:36 MS Autotune Date: 13-SEP-2011 09:32
Operator : ADM Inst ID: voa6.i
Smp Info : 1I28022-BLK1;;;;;
Misc Info : ;3;BLANK;;;8260.sub;
Comment :
Method : \\ELABNSH05\TARGET\chem\voa6.i\092811V6E.b\VW6SUR.m
Meth Date : 29-Sep-2011 05:24 amonteiro Quant Type: ISTD
Cal Date : 13-SEP-2011 18:30 Cal File: 0913CAL9.D
Als bottle: 100 QC Sample: BLANK
Dil Factor: 1.00000
Integrator: HP RTE Compound Sublist: 8260.sub
Target Version: 4.04
Processing Host: TARGET02_VM

Concentration Formula: Amt * DF * 5*Uf/Vo

Name	Value	Description
DF	1.000	Dilution Factor
Uf	1.000	unit correction factor
Vo	5.000	Volume of sample purged (mL)

mg/09/11

Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS ON-COLUMN (ug/L)	FINAL (ug/L)
* 55 Fluorobenzene	96	7.925	7.927	(1.000)	999759	30.0000	
$ 41 Dibromofluoromethane	111	6.912	6.914	(0.872)	320874	30.9043	30.90
$ 45 1,2-Dichloroethane-d4	102	7.404	7.406	(0.934)	63960	29.5444	29.54(Q)
$ 75 Toluene-d8	98	9.608	9.610	(0.871)	953720	32.2955	32.30
* 86 Chlorobenzene-d5	82	11.026	11.028	(1.000)	449134	30.0000	
$ 99 Bromofluorobenzene	95	12.217	12.219	(1.108)	397441	30.2196	30.22
* 112 1,4-Dichlorobenzene-d4	152	13.417	13.419	(1.000)	348672	30.0000	(Q)
120 1,2,4-Trichlorobenzene	180	15.484	15.486	(1.154)	1127	0.14635	0.1464(a)
121 Naphthalene	128	15.632	15.634	(1.165)	1856	0.10062	0.1006(a)
122 Hexachlorobutadiene	225	15.770	15.762	(1.175)	1091	0.31244	0.3124(a)

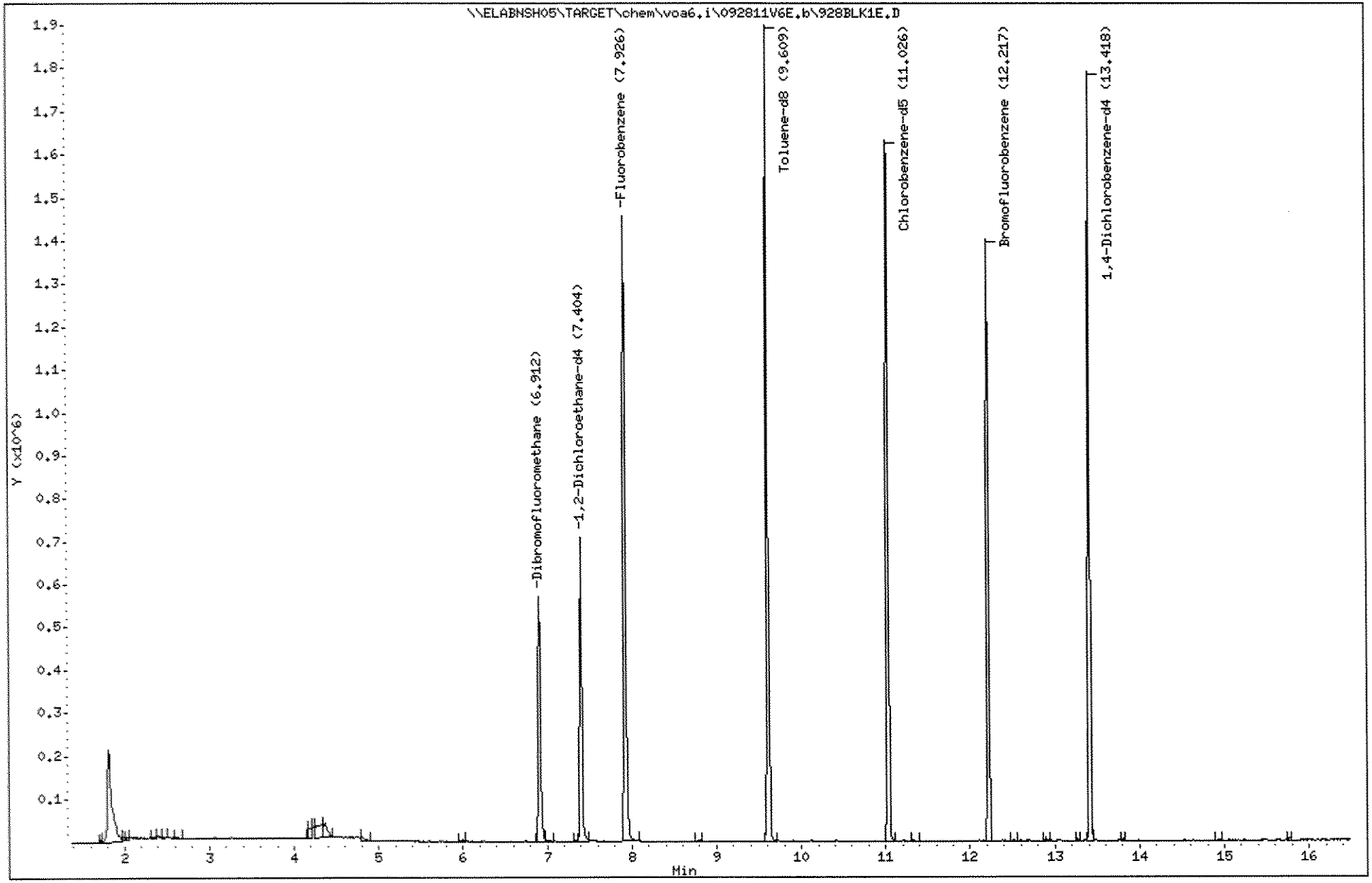
QC Flag Legend

a - Target compound detected but, quantitated amount Below Limit Of Quantitation(BLOQ).
Q - Qualifier signal failed the ratio test.

Data File: \\ELABNSH05\TARGET\chem\voa6.i\092811V6E.b\928BLK1E.D
Date : 28-SEP-2011 22:36
Client ID: 1I28022-BLK1
Sample Info: 1I28022-BLK1;;;;;
Purge Volume: 5.0
Column phase: RTX-VRX

Instrument: voa6.i

Operator: ADM
Column diameter: 0.25



Data File: \\ELABNSH05\TARGET\chem\voa6.i\092811V6E.b\928BLK1E.D

Date : 28-SEP-2011 22:36

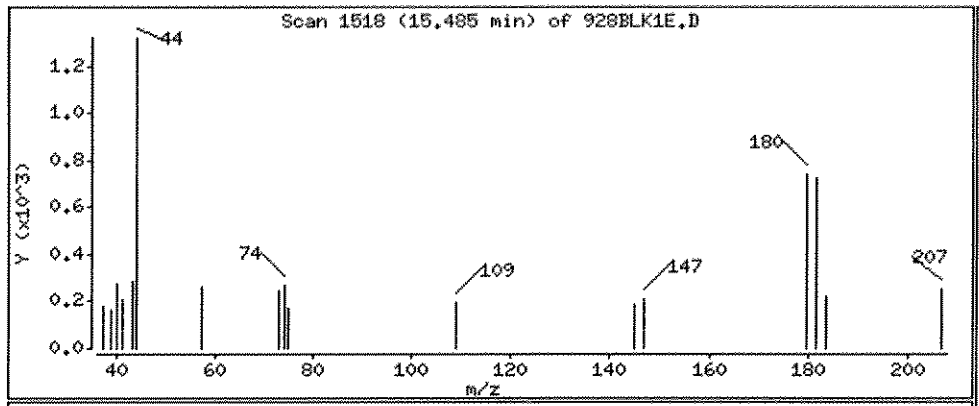
Client ID: 1I28022-BLK1 Instrument: voa6.i

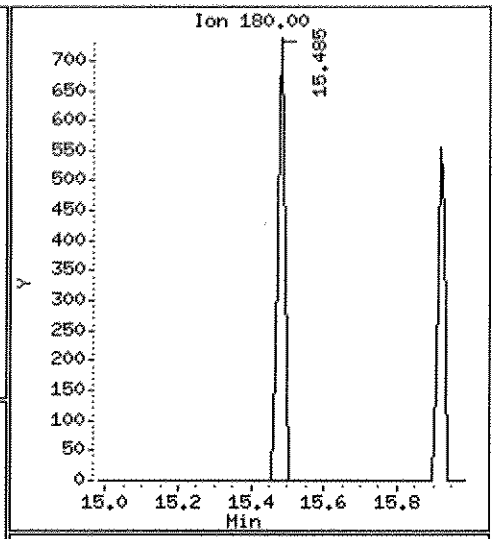
Sample Info: 1I28022-BLK1;;;;;

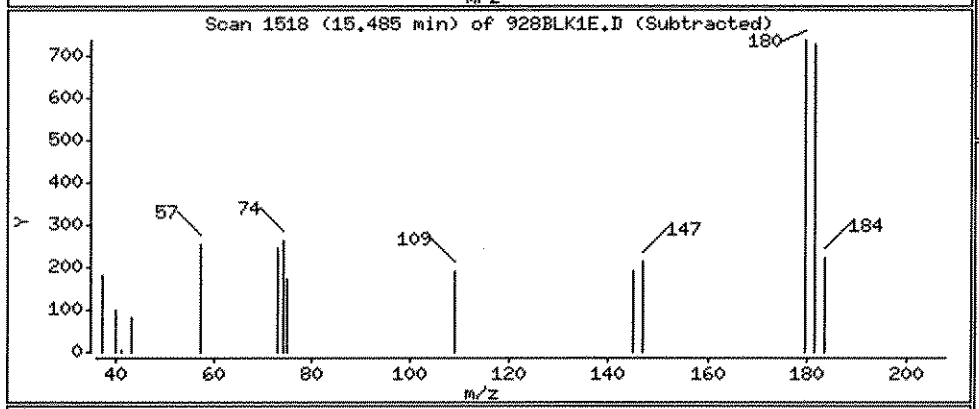
Purge Volume: 5.0 Operator: ADM

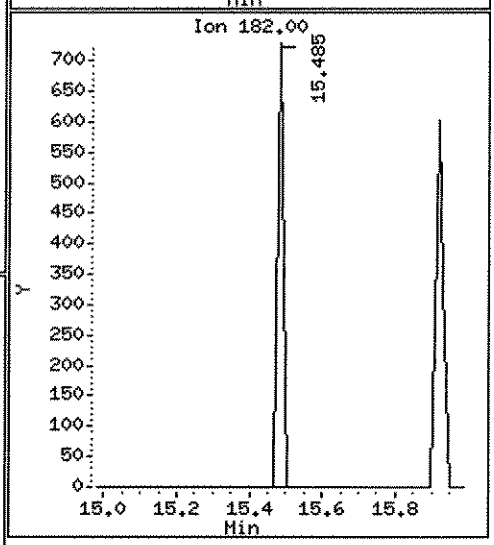
Column phase: RTX-VRX Column diameter: 0.25

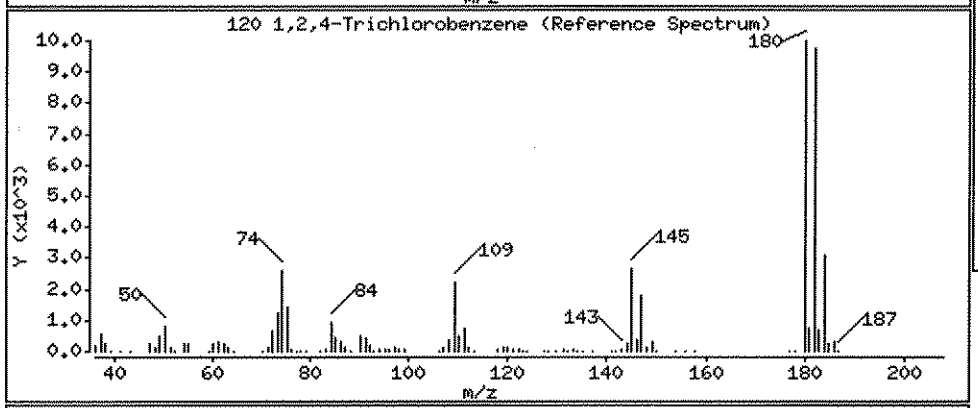
120 1,2,4-Trichlorobenzene Concentration: 0.1464 ug/L

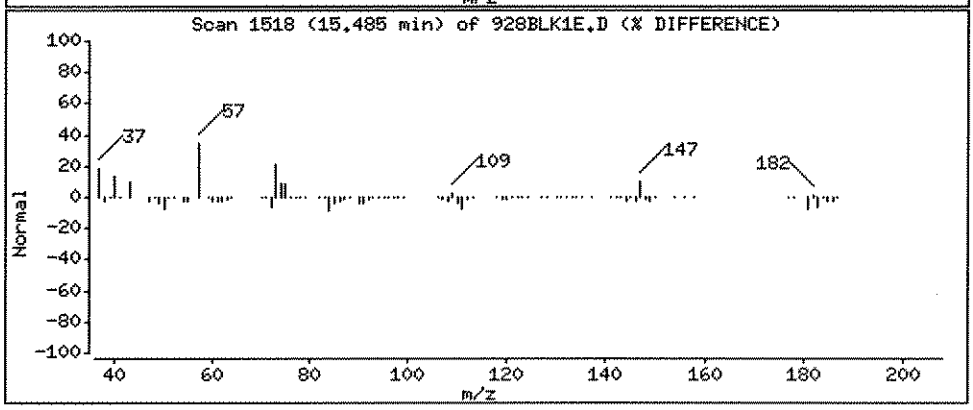












Data File: \\ELABNSHO5\TARGET\chem\voa6.i\092811V6E.b\928BLK1E.D

Date : 28-SEP-2011 22:36

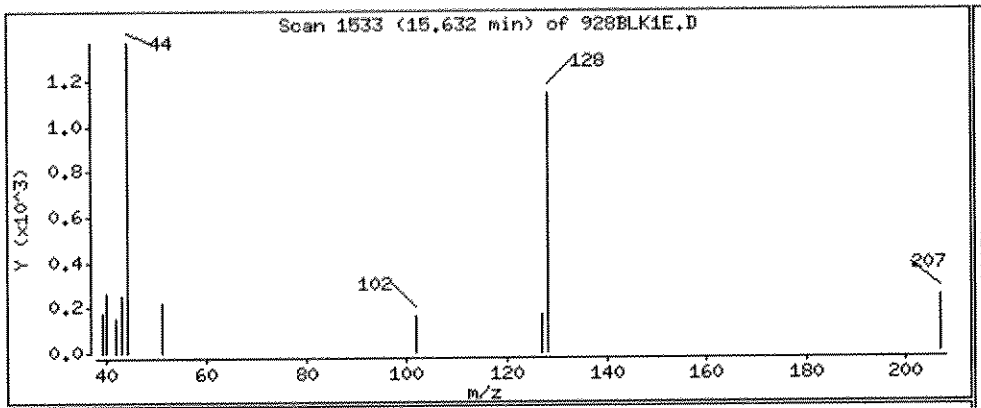
Client ID: 1I28022-BLK1 Instrument: voa6.i

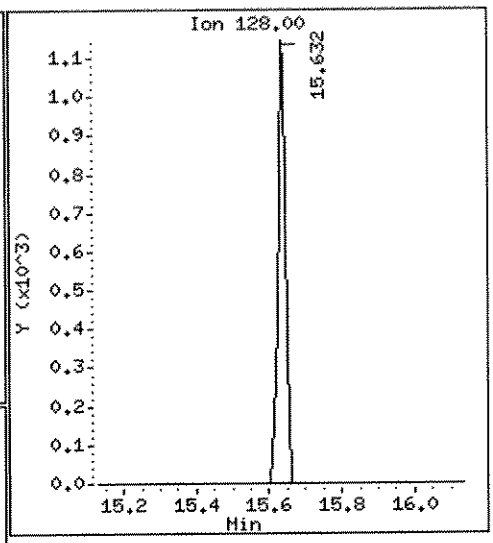
Sample Info: 1I28022-BLK1;;;;;

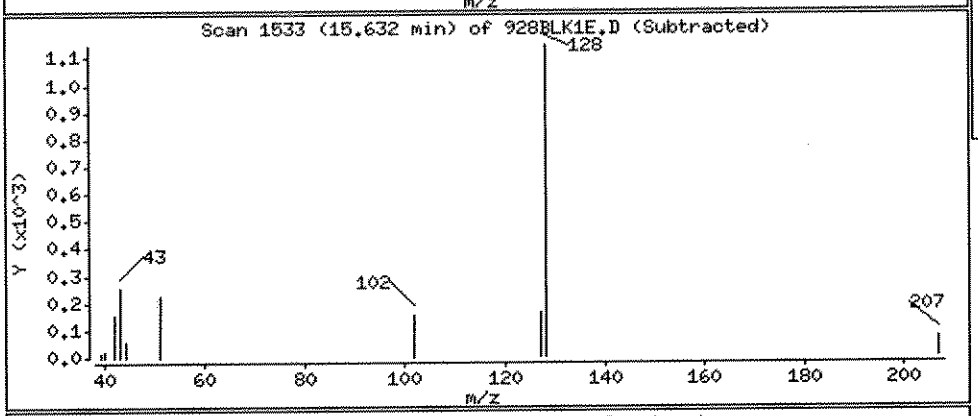
Purge Volume: 5.0 Operator: ADM

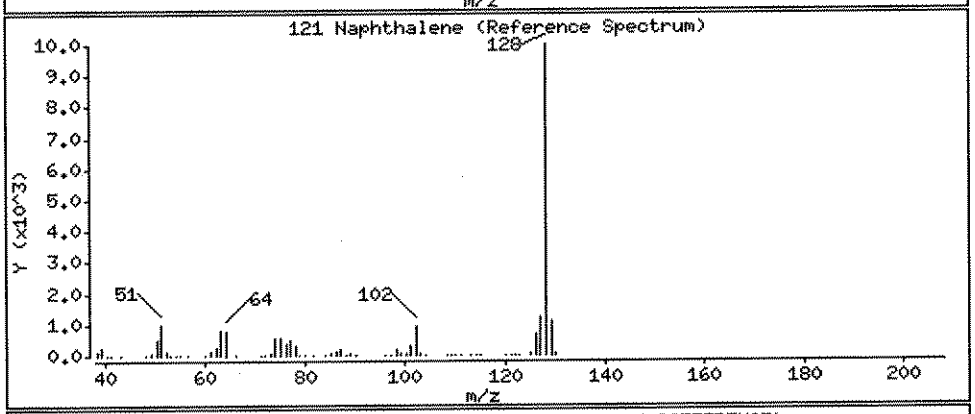
Column phase: RTX-VRX Column diameter: 0.25

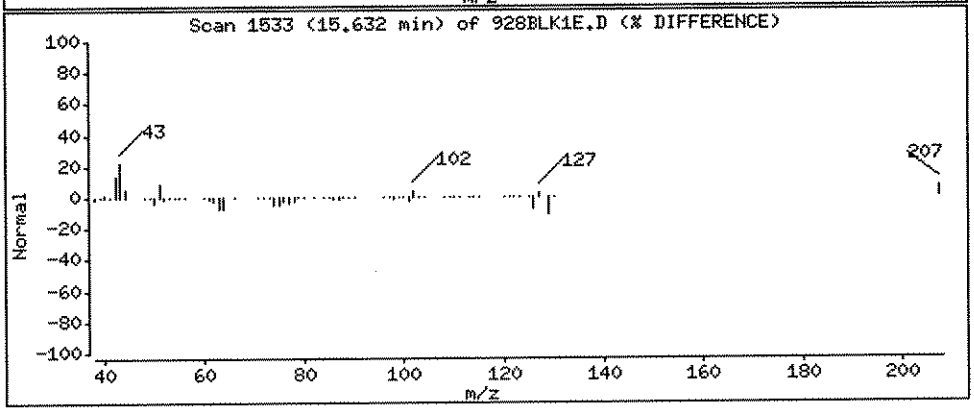
121 Naphthalene Concentration: 0.1006 ug/L











Data File: \\ELABNSH05\TARGET\chem\voa6.i\092811V6E.b\928BLK1E.D

Date : 28-SEP-2011 22:36

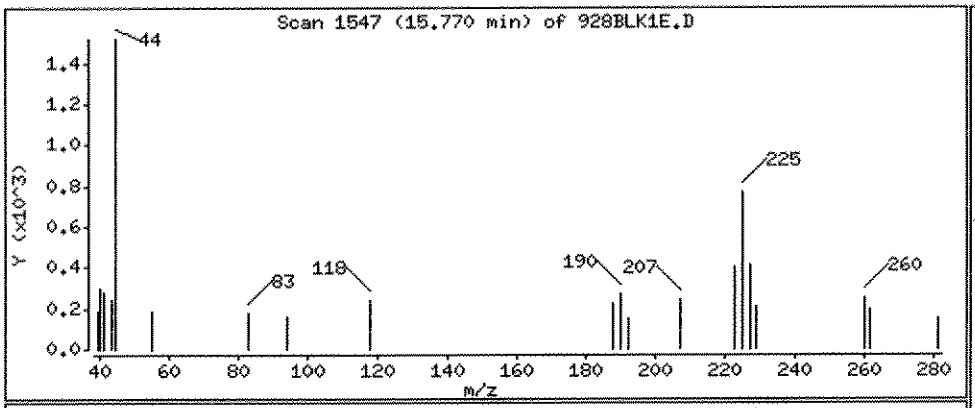
Client ID: 1I28022-BLK1 | Instrument: voa6.i

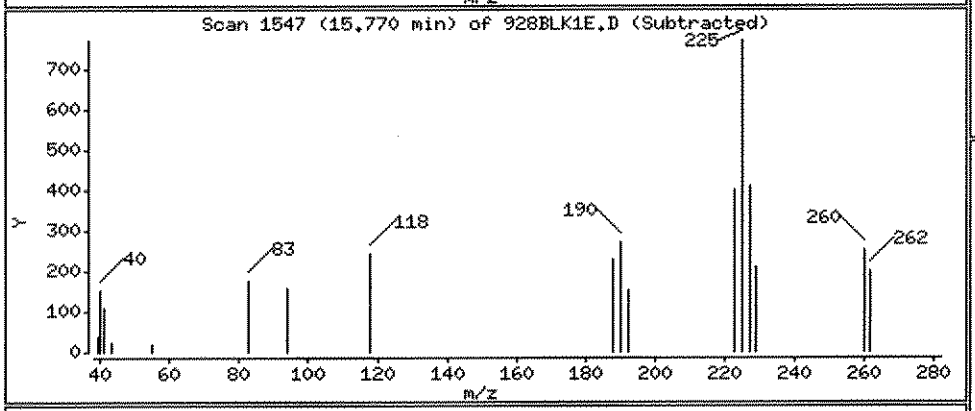
Sample Info: 1I28022-BLK1;;;;;

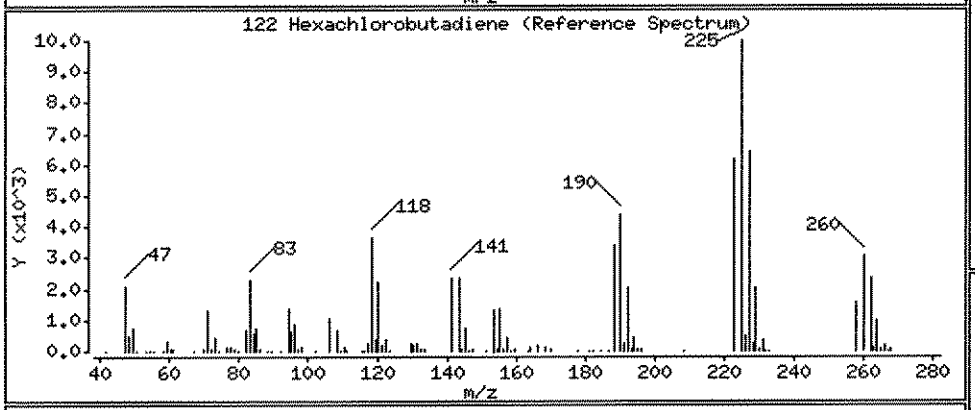
Purge Volume: 5.0 | Operator: ADM

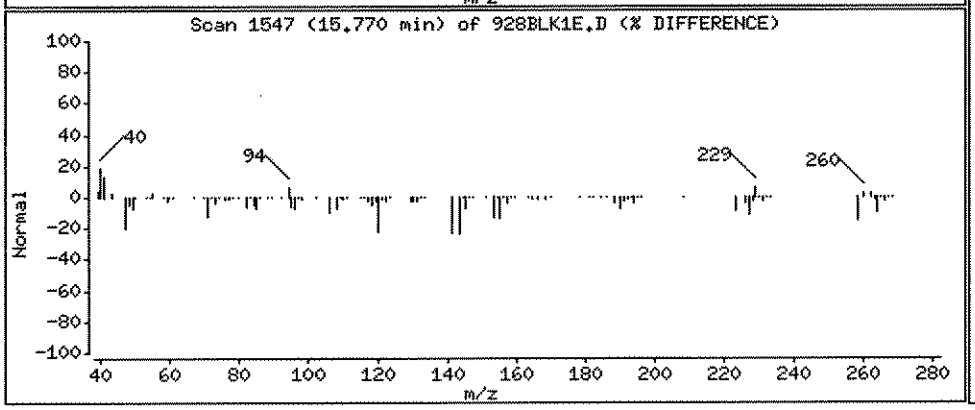
Column phase: RTX-VRX | Column diameter: 0.25

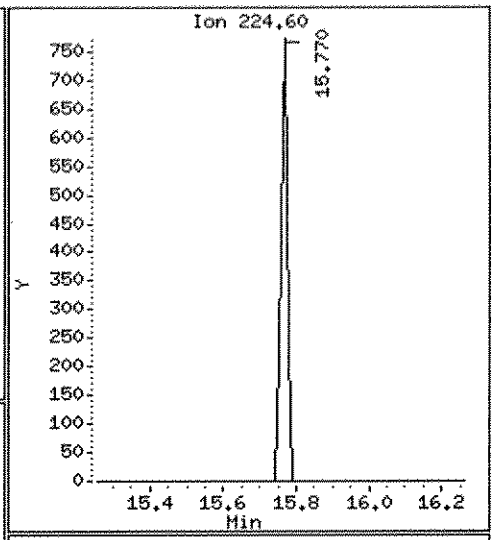
122 Hexachlorobutadiene | Concentration: 0.3124 ug/L

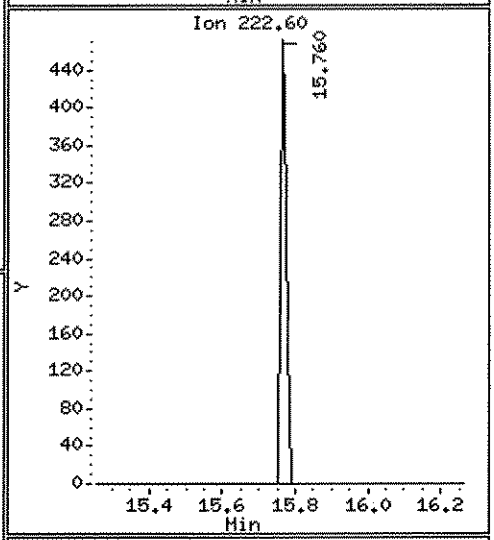


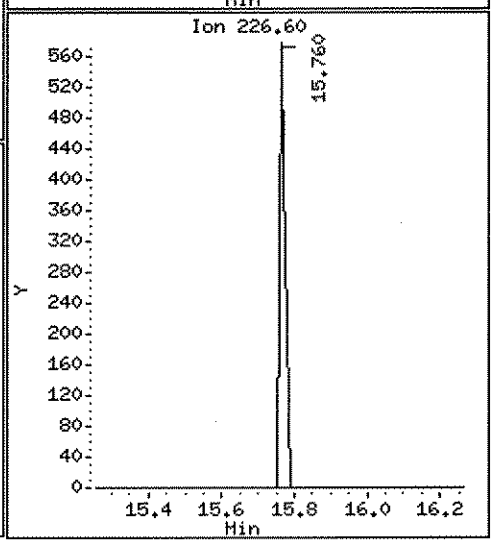












Data File: \\ELABNSH05\TARGET\chem\voa6.i\092811V6E.b\0919110.D
Report Date: 29-Sep-2011 09:40

Laboratory Name

Data file : \\ELABNSH05\TARGET\chem\voa6.i\092811V6E.b\0919110.D
Lab Smp Id: 1109191-10 Client Smp ID: FLC-4-RB01-092211
Inj Date : 28-SEP-2011 23:56 MS Autotune Date: 13-SEP-2011 09:32
Operator : ADM Inst ID: voa6.i
Smp Info : 1109191-10;;;;;
Misc Info : ;0;;;;8260.sub;
Comment :
Method : \\ELABNSH05\TARGET\chem\voa6.i\092811V6E.b\VW6SUR.m
Meth Date : 29-Sep-2011 09:39 ghallquist Quant Type: ISTD
Cal Date : 13-SEP-2011 18:30 Cal File: 0913CAL9.D
Als bottle: 31
Dil Factor: 1.00000
Integrator: HP RTE Compound Sublist: 8260.sub
Target Version: 4.04
Processing Host: TARGET10_VM

Concentration Formula: Amt * DF * 5*Uf/Vo

Name	Value	Description
DF	1.000	Dilution Factor
Uf	1.000	unit correction factor
Vo	5.000	Volume of sample purged (mL)

9-29-11

Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS ON-COLUMN (ug/L)	FINAL (ug/L)
* 55 Fluorobenzene	96	7.927	7.927	(1.000)	918781	30.0000	
9 Acetone	43	3.793	3.794	(0.479)	23586	6.38805	6.388(a)
19 Methylene chloride	84	4.738	4.748	(0.598)	2779	0.37212	0.3721(a)
33 2-Butanone	43	6.234	6.235	(0.786)	30469	4.58258	4.582(a)
$ 41 Dibromofluoromethane	111	6.903	6.914	(0.871)	297343	31.1620	31.16
$ 45 1,2-Dichloroethane-d4	102	7.405	7.406	(0.934)	57772	29.0380	29.04(Q)
$ 75 Toluene-d8	98	9.610	9.610	(0.871)	881915	31.9103	31.91
77 Toluene	92	9.679	9.689	(0.878)	5928	0.32286	0.3228(a)
* 86 Chlorobenzene-d5	82	11.027	11.028	(1.000)	420333	30.0000	
$ 99 Bromofluorobenzene	95	12.218	12.219	(1.108)	372694	30.2796	30.28
* 112 1,4-Dichlorobenzene-d4	152	13.419	13.419	(1.000)	323172	30.0000	(Q)
121 Naphthalene	128	15.633	15.634	(1.165)	2152	0.12588	0.1259(a)

9/29/11

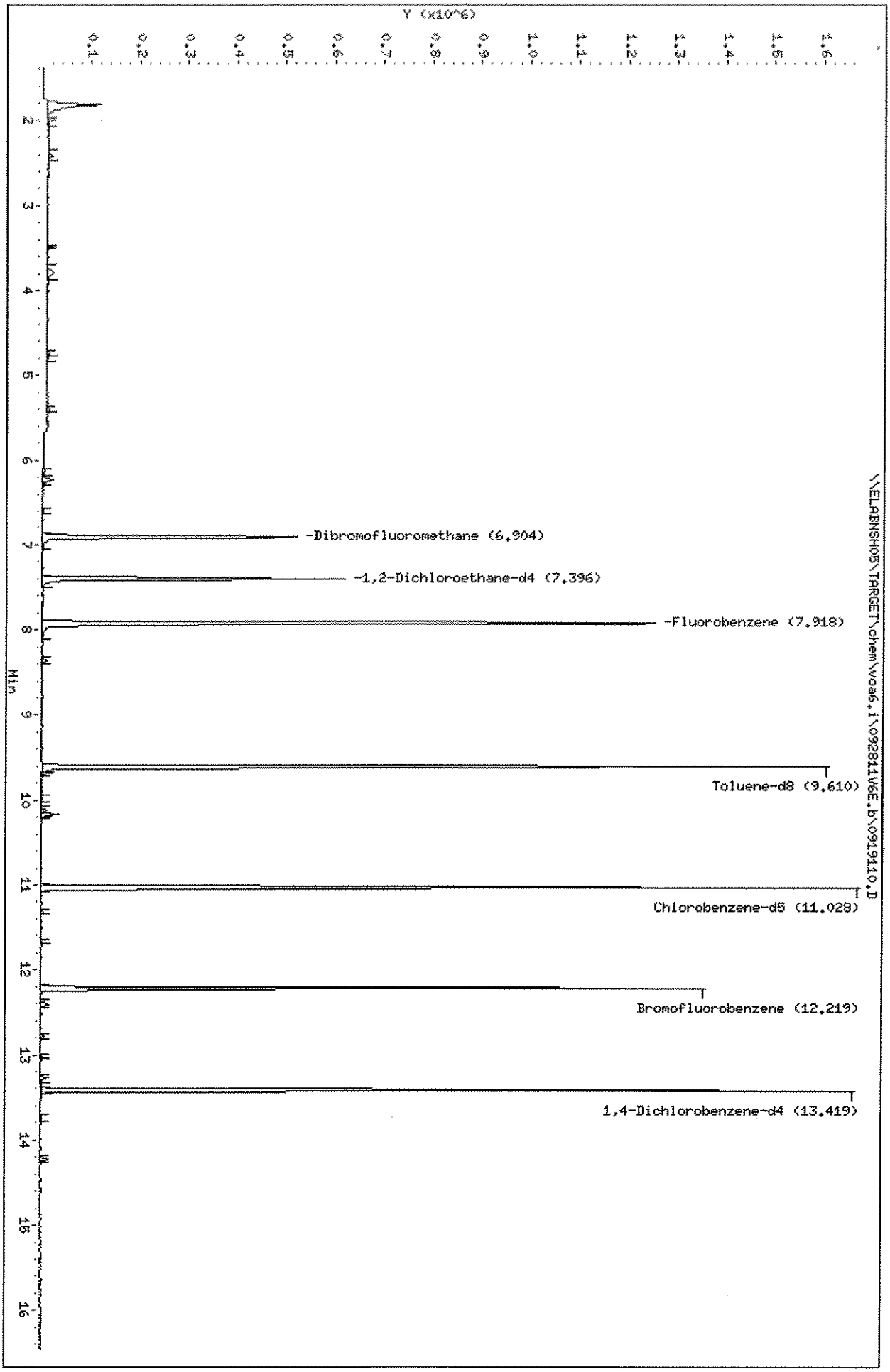
Data File: \\ELABNSH05\TARGET\chem\voa6.i\092811V6E.b\0919110.D
Report Date: 29-Sep-2011 09:40

QC Flag Legend

a - Target compound detected but, quantitated amount
    Below Limit Of Quantitation(BLOQ).
Q - Qualifier signal failed the ratio test.

Data File: \\ELABNSH05\TARGET\chem\voa6.i\092811V6E.b\0919110.D
Date : 28-SEP-2011 23:56
Client ID: FLC-4-RB01-092211
Sample Info: 1109191-10;;;;;
Purge Volume: 5.0
Column phase: RTX-VRX

Instrument: voa6.i
Operator: ADM
Column diameter: 0.25



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Date : 28-SEP-2011 23:56

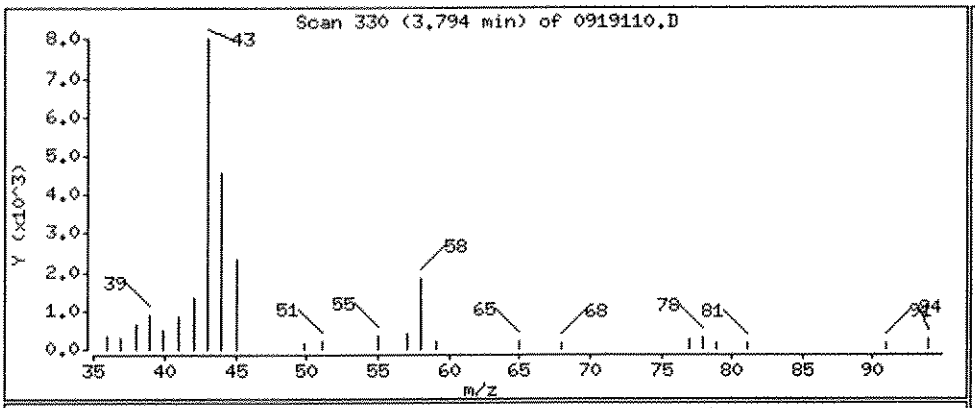
Client ID: FLC-4-RB01-092211 Instrument: voa6.i

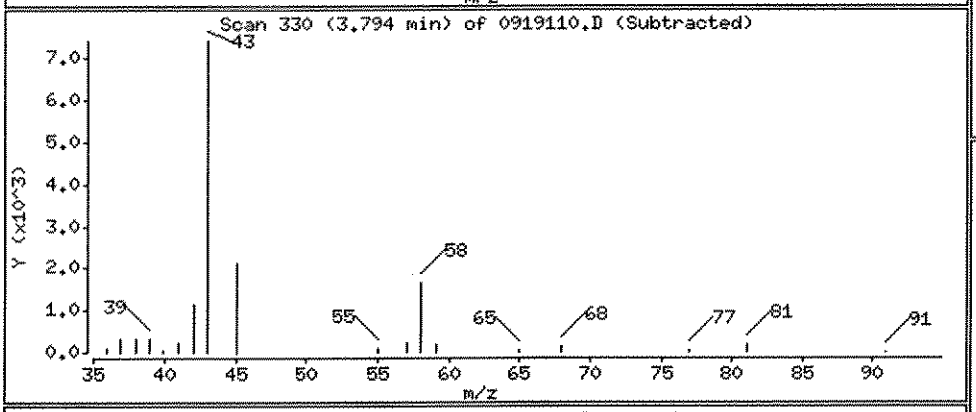
Sample Info: 1109191-10;;;;;

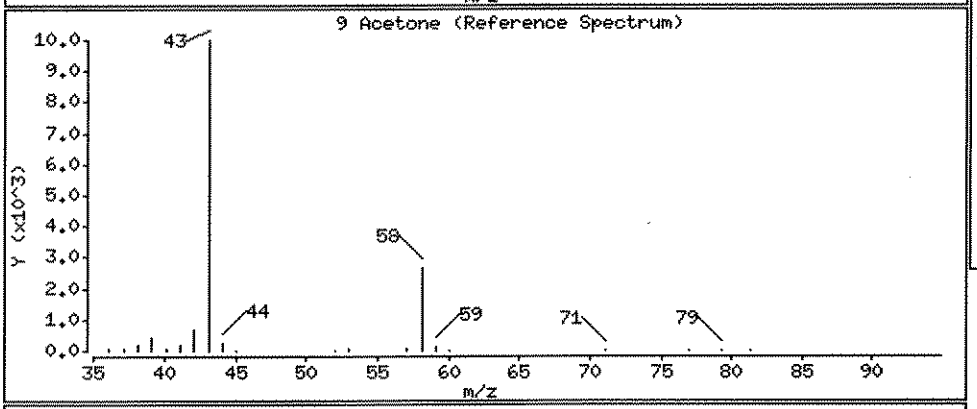
Purge Volume: 5.0 Operator: ADM

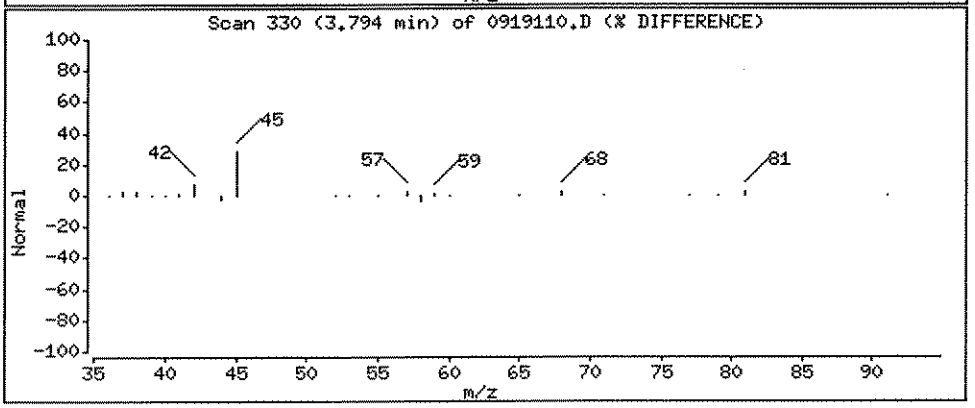
Column phase: RTX-VRX Column diameter: 0.25

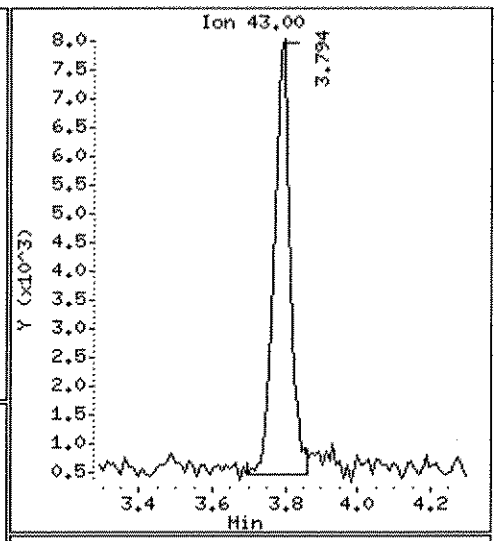
9 Acetone Concentration: 6.388 ug/L

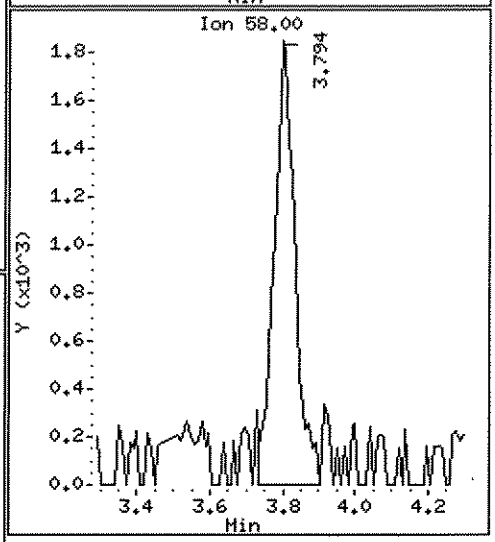












Data File: \\ELABNSH05\TARGET\chem\voa6.i\092811V6E.b\0919110.D

Date : 28-SEP-2011 23:56

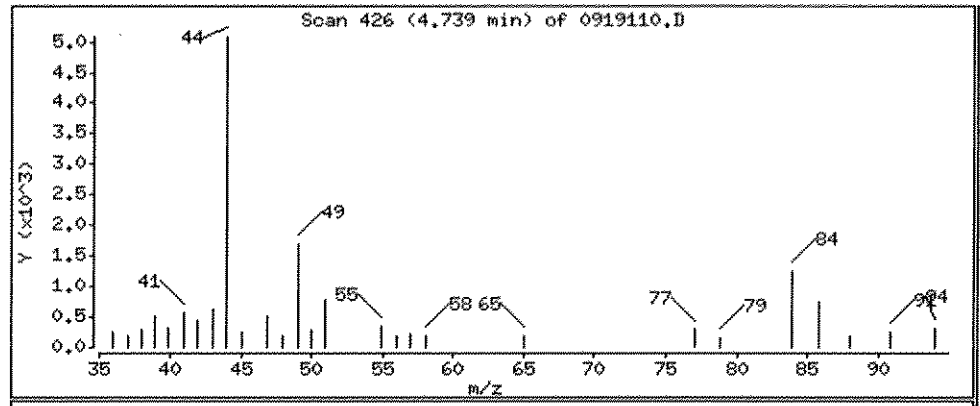
Client ID: FLC-4-RB01-092211 Instrument: voa6.i

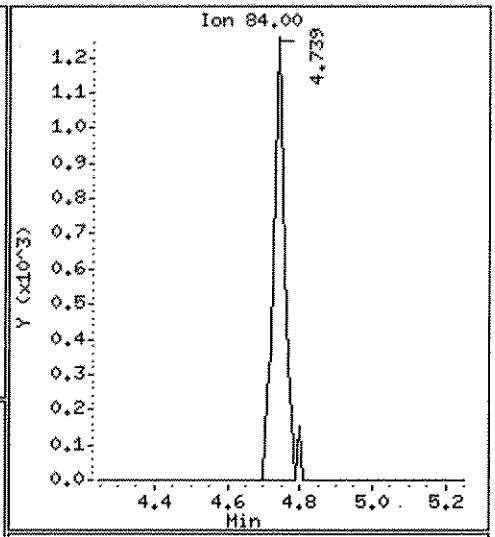
Sample Info: 1109191-10;;;;;

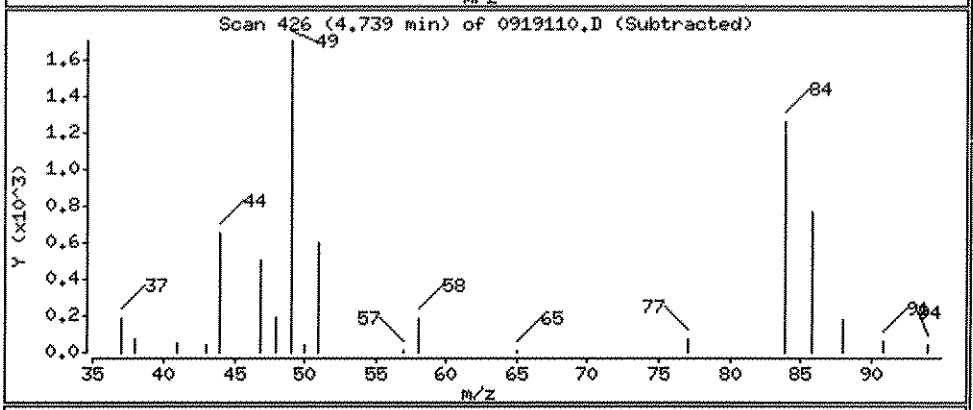
Purge Volume: 5.0 Operator: ADM

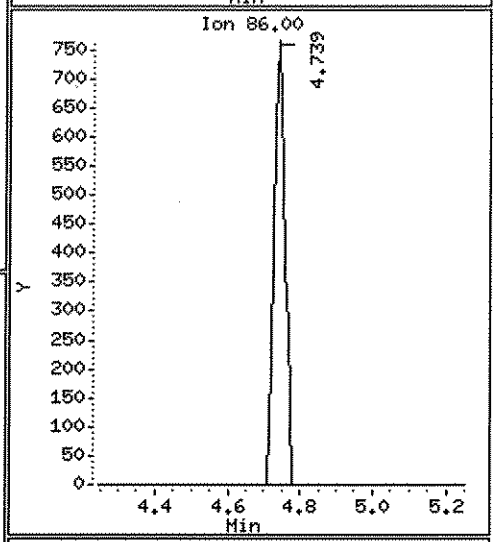
Column phase: RTX-VRX Column diameter: 0.25

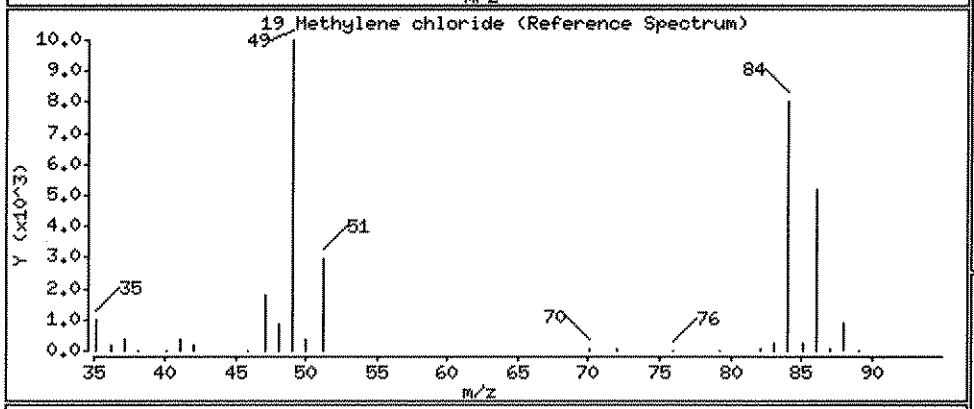
19 Methylene chloride Concentration: 0.3721 ug/L

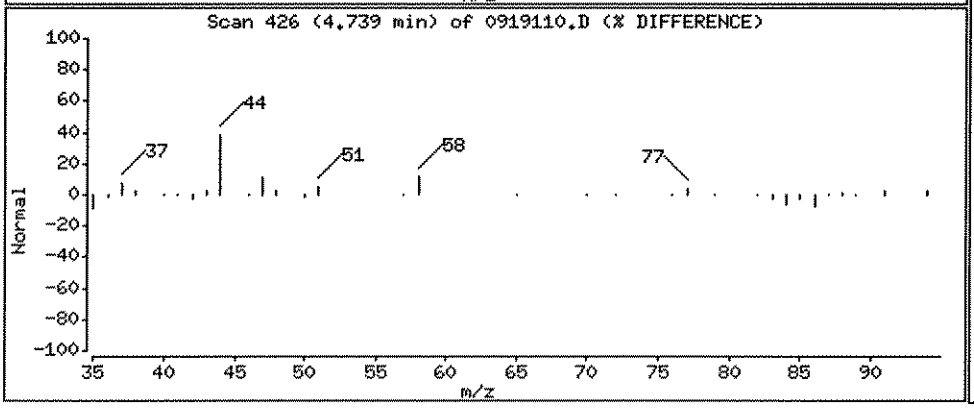


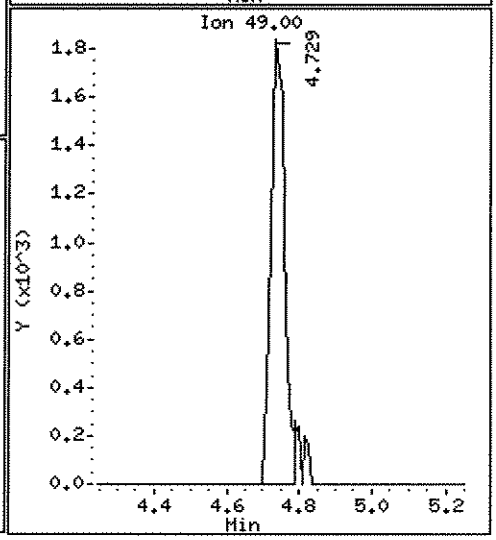












Data File: \\ELABNSH05\TARGET\chem\voa6.i\092811V6E.b\0919110.D

Date : 28-SEP-2011 23:56

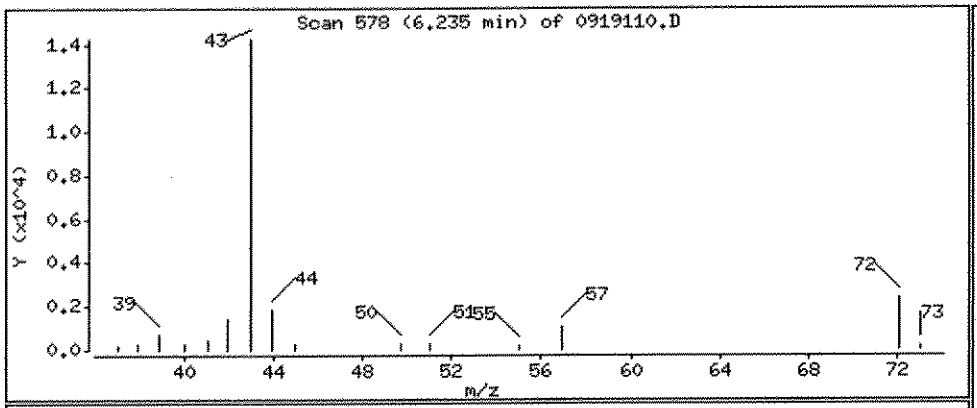
Client ID: FLC-4-RB01-092211 Instrument: voa6.i

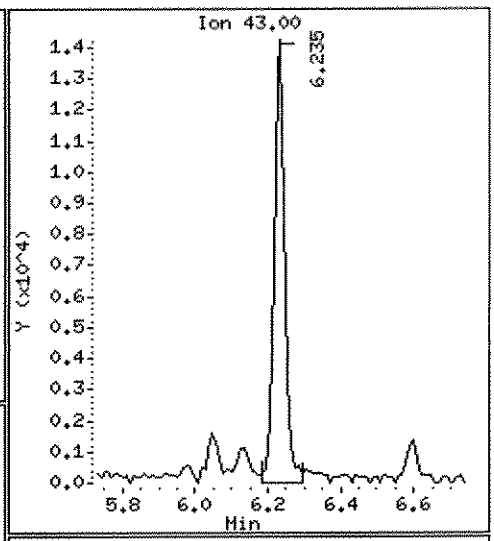
Sample Info: 1109191-10;;;;;

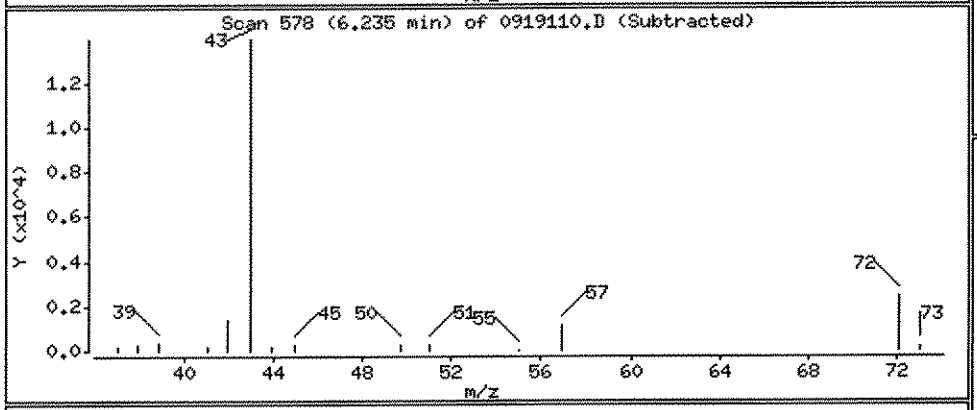
Purge Volume: 5.0 Operator: ADM

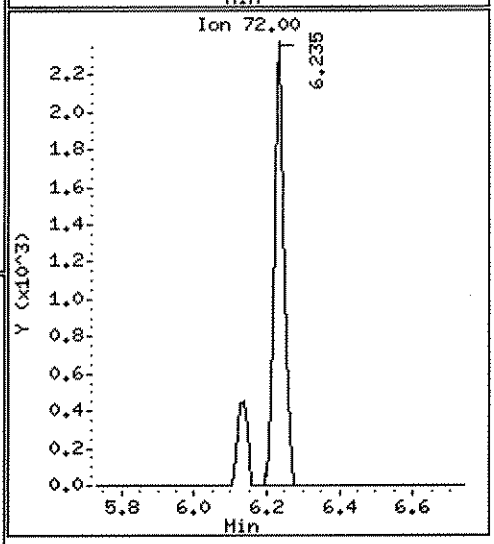
Column phase: RTX-VRX Column diameter: 0.25

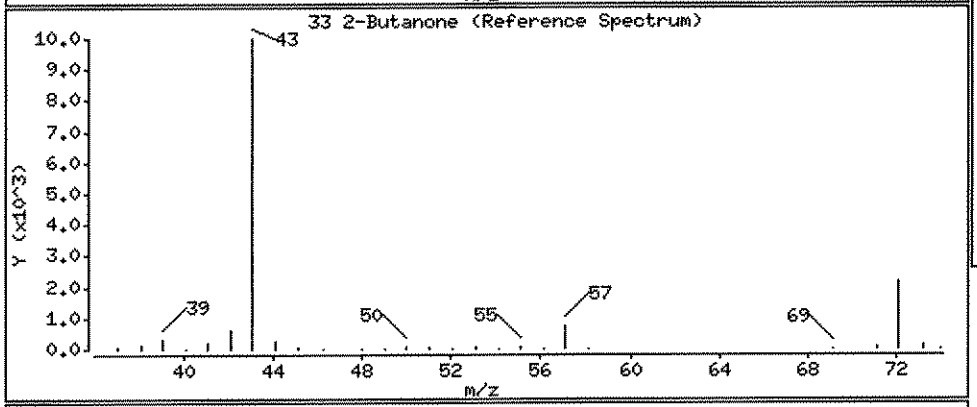
33 2-Butanone Concentration: 4.582 ug/L

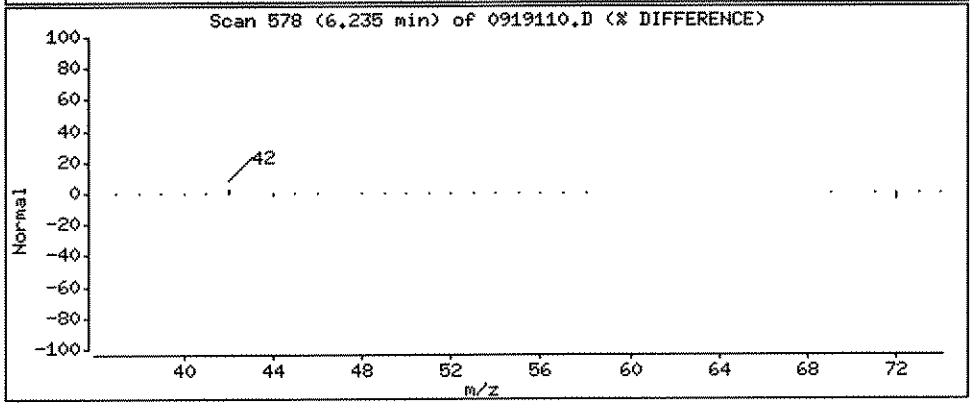












Data File: \\ELABNSH05\TARGET\chem\voa6.i\092811V6E.b\0919110.D

Date : 28-SEP-2011 23:56

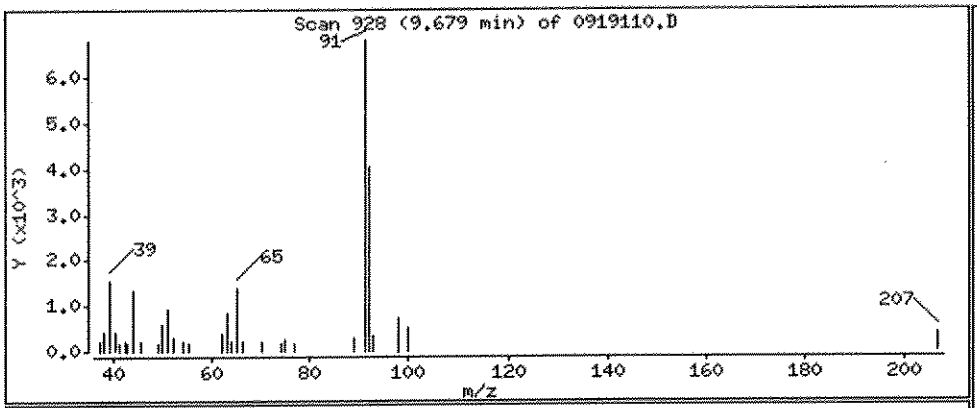
Client ID: FLC-4-RB01-092211 Instrument: voa6.i

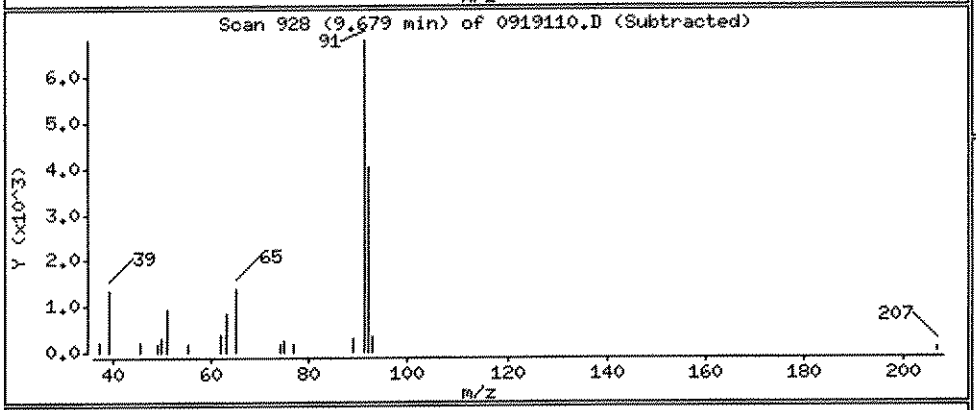
Sample Info: 1109191-10;;;;;

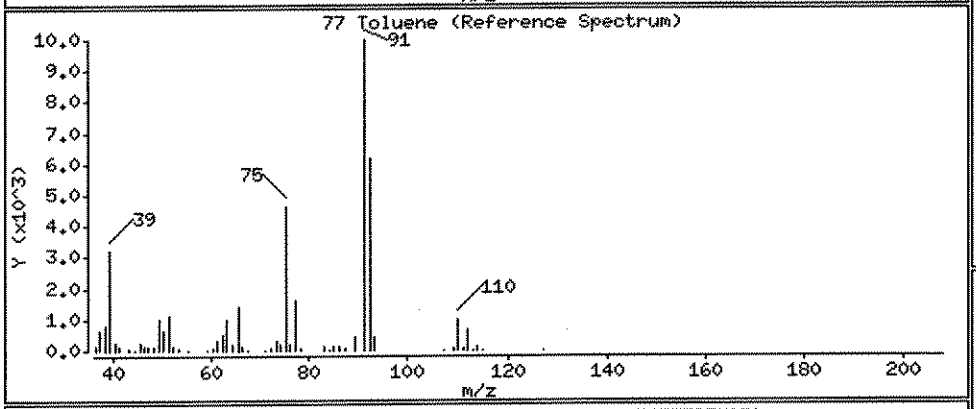
Purge Volume: 5.0 Operator: ADM

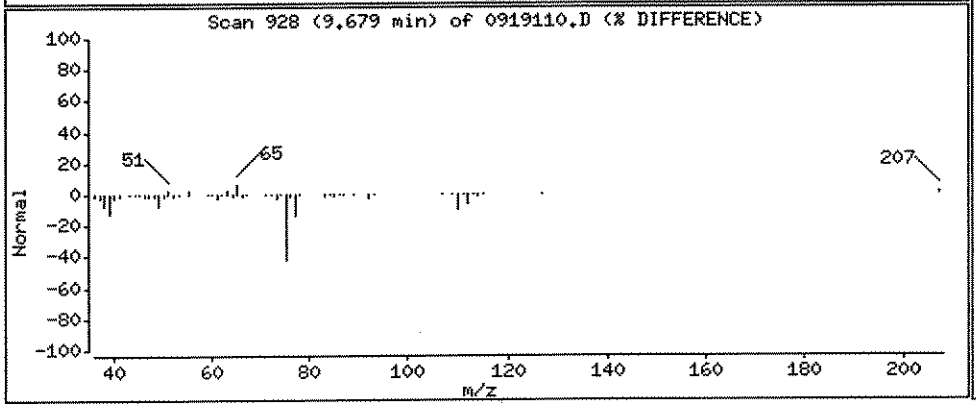
Column phase: RTX-VRX Column diameter: 0.25

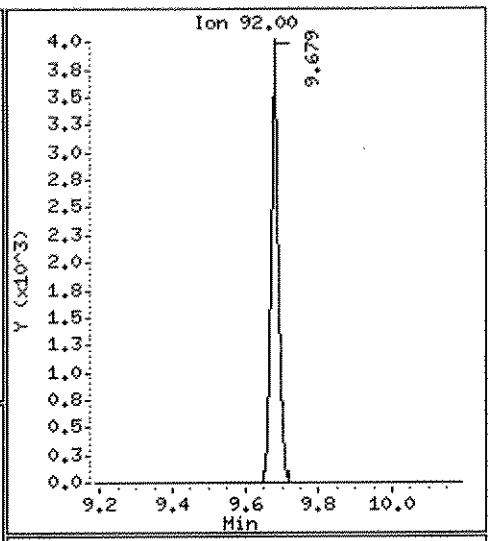
77 Toluene Concentration: 0.3228 ug/L

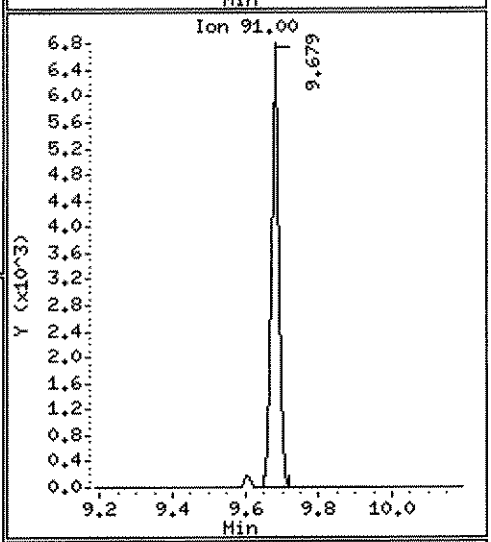


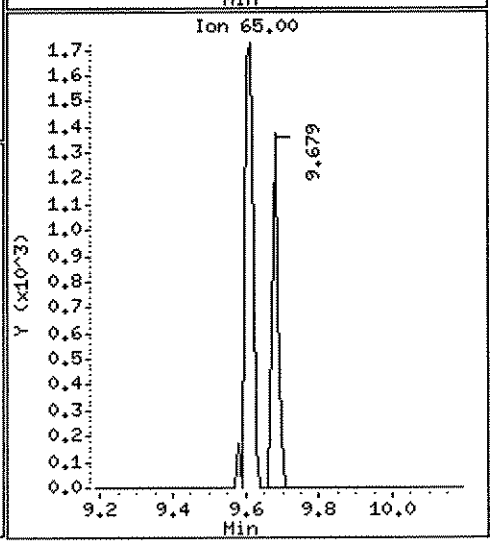












Data File: \\ELABNSH05\TARGET\chem\voa6.i\092811V6E.b\0919110.D

Date : 28-SEP-2011 23:56

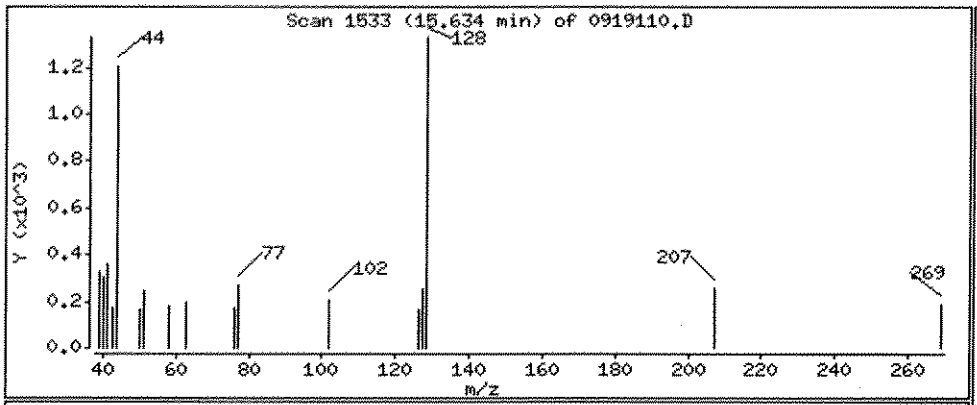
Client ID: FLC-4-RB01-092211 Instrument: voa6.i

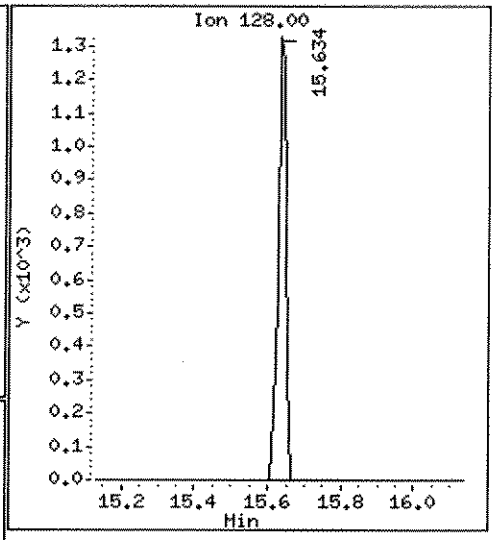
Sample Info: 1109191-10;;;;;

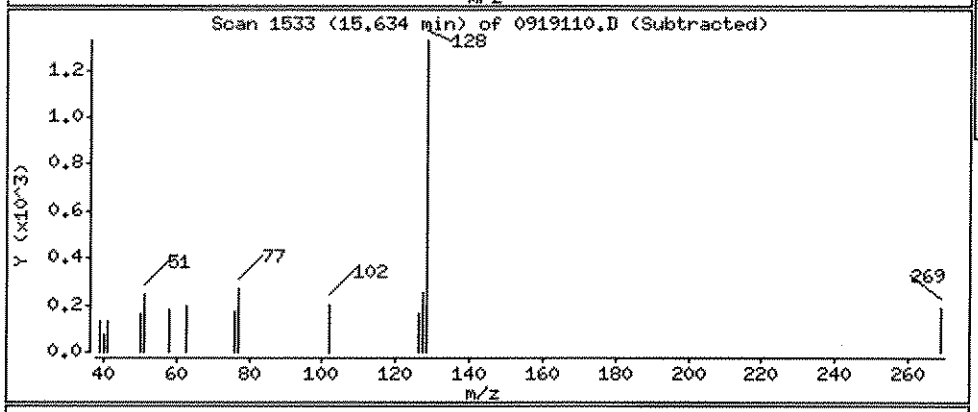
Purge Volume: 5.0 Operator: ADM

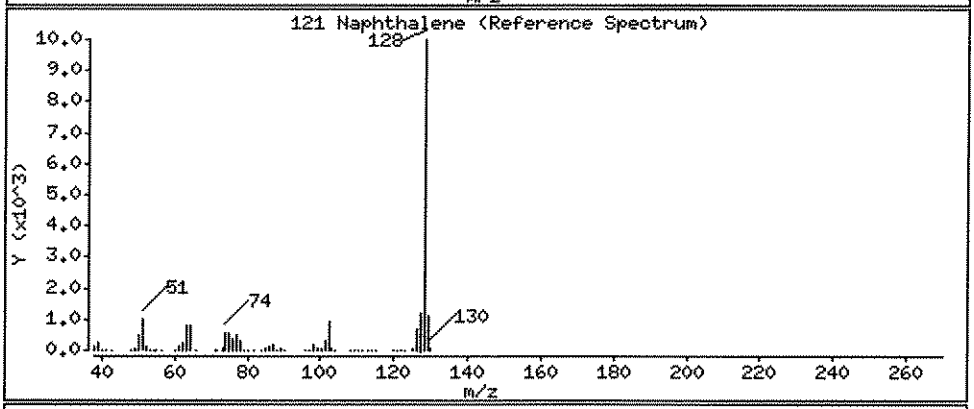
Column phase: RTX-VRX Column diameter: 0.25

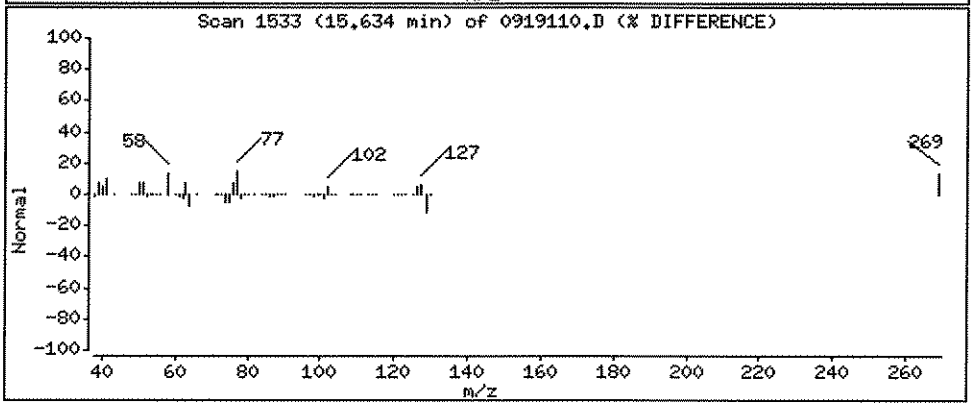
121 Naphthalene Concentration: 0.1259 ug/L











PREPARATION BENCH SHEET

1I27005

Empirical Laboratories, LLC

Printed: 10/12/2011 10:18:40AM

Instrument: VOA5

Matrix: Solid **Prepared using: MS - 5035** **Surrogate used: 11A0564**

Lab Number	Cont ID	Analysis	Prepared	Initial (g)	Final (mL)	Spike ID	Source ID	ul Spike	ul Surrogate	PH	Extraction Comments
1109174-02RE1	A	VOC_8260B_REG	09/27/2011	9.05	5				1	NA	RR B for low IS-ADM
1109188-01RE1	C	VOC_8260B_REG	09/27/2011	6	5				1	NA	RR B vial for bad purge-ADM
1109191-01	B	VOC_8260B_AP9	09/27/2011	4.8	5				1	NA	
1109191-02	B	VOC_8260B_AP9	09/27/2011	4.82	5				1	NA	MS/MSD
1109191-02	B	VOC_8260B_REG	09/27/2011	4.82	5				1	NA	Added for BatchQC in: 1I27005
1109191-03	B	VOC_8260B_AP9	09/27/2011	4.83	5				1	NA	
1109191-04	B	VOC_8260B_AP9	09/27/2011	5.61	5				1	NA	
1109191-05	A	VOC_8260B_AP9	09/27/2011	4.67	5				1	NA	
1109191-06	B	VOC_8260B_AP9	09/27/2011	4.94	5				1	NA	
1109192-01	B	VOC_8260B_AP9	09/27/2011	5.32	5				1	NA	
1109192-02	B	VOC_8260B_AP9	09/27/2011	4.69	5				1	NA	
1109192-03	B	VOC_8260B_AP9	09/27/2011	4.78	5				1	NA	
1109192-05	A	VOC_8260B_AP9	09/27/2011	3.68	5				1	NA	
1109192-06	A	VOC_8260B_AP9	09/27/2011	4.7	5				1	NA	
1109192-11	A	VOC_8260B_AP9	09/27/2011	5.21	5				1	NA	
1109192-13	A	VOC_8260B_AP9	09/27/2011	4.65	5				1	NA	
1109192-15	A	VOC_8260B_AP9	09/27/2011	4.47	5				1	NA	
1109192-16	A	VOC_8260B_AP9	09/27/2011	4.39	5				1	NA	
1I27005-BLK1		QC	09/27/2011	5	5				1	NA	
1I27005-BLK2		QC	09/27/2011	5	5				1	NA	
1I27005-BS1		QC	09/27/2011	5	5	11I0522		2.5	1	NA	
1I27005-MS1		QC	09/27/2011	4.83	5	11I0522	1109191-02	2.5	1	NA	

Spiking Witnessed By Date

Preparation Reviewed By Date

Extracts Received By Date

471

1109191

PREPARATION BENCH SHEET

1I27005

Empirical Laboratories, LLC

Printed: 10/12/2011 10:18:40AM

Instrument: VOA5

Matrix: Solid **Prepared using: MS - 5035** **Surrogate used: 11A0564**

Lab Number	Cont ID	Analysis	Prepared	Initial (g)	Final (mL)	Spike ID	Source ID	ul Spike	ul Surrogate	PH	Extraction Comments
1I27005-MSD1		QC	09/27/2011	4.77	5	11I0522	1109191-02	2.5	1	NA	

Reagents Used:

Standard	Description

Spiking Witnessed By Date

Preparation Reviewed By Date

Extracts Received By Date

472

1109191

PREPARATION BENCH SHEET

1I28022

Empirical Laboratories, LLC

Printed: 10/12/2011 10:19:56AM

Instrument: VOA6

Matrix: Water **Prepared using: MS - 5030B** **Surrogate used: 11I0371**

Lab Number	Cont ID	Analysis	Prepared	Initial (mL)	Final (mL)	Spike ID	Source ID	ul Spike	ul Surrogate	PH	Extraction Comments
1109173-14	A	VOC_8260B_REG	09/28/2011	5	5				1	2	See version
1109173-15	A	VOC_8260B_REG	09/28/2011	5	5				1	2	See version
1109173-16	A	VOC_8260B_REG	09/28/2011	5	5				1	2	See version
1109173-17	A	VOC_8260B_REG	09/28/2011	5	5				1	2	See version
1109173-18	A	VOC_8260B_REG	09/28/2011	5	5				1	2	See version
1109173-19	A	VOC_8260B_REG	09/28/2011	5	5				1	2	See version
1109173-20	A	VOC_8260B_REG	09/28/2011	5	5				1	2	See version
1109173-21	A	VOC_8260B_REG	09/28/2011	5	5				1	2	See version
1109173-22	A	VOC_8260B_AP9	09/28/2011	5	5				1	2	Added for BatchQC in: 1I28022
1109173-22	A	VOC_8260B_REG	09/28/2011	5	5				1	2	See version,MS/MSD
1109173-23	A	VOC_8260B_REG	09/28/2011	5	5				1	2	See version
1109173-24	A	VOC_8260B_REG	09/28/2011	5	5				1	2	See version
1109174-04	A	VOC_8260B_REG	09/28/2011	5	5				1	2	NO QUAD w/o client approval!
1109176-01	A	VOC_8260B_REG	09/28/2011	5	5				1	2	See version
1109176-02	A	VOC_8260B_REG	09/28/2011	5	5				1	2	See version
1109176-03	A	VOC_8260B_REG	09/28/2011	5	5				1	2	See version
1109191-10	A	VOC_8260B_AP9	09/28/2011	5	5				1	2	
1109192-12	A	VOC_8260B_AP9	09/28/2011	5	5				1	2	
1109192-25	A	VOC_8260B_AP9	09/28/2011	5	5				1	2	
1109193-01	A	VOC_8260B_REG	09/28/2011	5	5				1	2	See version
1109193-02	A	VOC_8260B_REG	09/28/2011	5	5				1	2	See version
1I28022-BLK1		QC	09/28/2011	5	5				1	NA	

Spiking Witnessed By Date

Preparation Reviewed By Date

Extracts Received By Date

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1109191

PREPARATION BENCH SHEET

1I28022

Empirical Laboratories, LLC

Printed: 10/12/2011 10:19:56AM

Instrument: VOA6

Matrix: Water **Prepared using: MS - 5030B** **Surrogate used: 11I0371**

Lab Number	Cont ID	Analysis	Prepared	Initial (mL)	Final (mL)	Spike ID	Source ID	ul Spike	ul Surrogate	PH	Extraction Comments
1I28022-BS1		QC	09/28/2011	5	5	11I0782		2.5	1	NA	
1I28022-MS1		QC	09/28/2011	5	5	11I0782	1109173-22	2.5	1	NA	
1I28022-MSD1		QC	09/28/2011	5	5	11I0782	1109173-22	2.5	1	NA	

Reagents Used:

Standard	Description

Spiking Witnessed By Date

Preparation Reviewed By Date

Extracts Received By Date

474

1109191

PREPARATION BENCH SHEET

1I28025

Empirical Laboratories, LLC

Printed: 10/21/2011 2:04:46PM

Instrument: VOA5

Matrix: Solid **Prepared using: MS - 5035** **Surrogate used: 11A0564**

Lab Number	Cont ID	Analysis	Prepared	Initial (g)	Final (mL)	Spike ID	Source ID	ul Spike	ul Surrogate	PH	Extraction Comments
1109133-01	A	VOC_8260B_REG	09/28/2011	5	5				1	NA	TCL List. prep MeOH vials
1109166-01	B	VOC_8260B_REG	09/28/2011	5.99	5				1	NA	RLstd begin/end each run
1109191-04RE1	C	VOC_8260B_AP9	09/28/2011	4.76	5				1	NA	
1109191-05RE1	B	VOC_8260B_AP9	09/28/2011	4.64	5				1	NA	
1109192-01RE1	C	VOC_8260B_AP9	09/28/2011	5.09	5				1	NA	RR Bvial for is/sur out-ADM
1109192-05RE1	B	VOC_8260B_AP9	09/28/2011	4.56	5				1	NA	RR 1x lower-ADM
1109192-06RE1	B	VOC_8260B_AP9	09/28/2011	3.73	5				1	NA	RR 1x lower at end-ADM
1109192-11RE1	B	VOC_8260B_AP9	09/28/2011	4.98	5				1	NA	RR 1x lower at end-ADM
1109192-13RE1	B	VOC_8260B_AP9	09/28/2011	4.96	5				1	NA	RR 1x lower-ADM
1109192-15RE1	B	VOC_8260B_AP9	09/28/2011	4.85	5				1	NA	RR 1x lower at end-ADM
1109196-01	A	VOC_8260B_REG	09/28/2011	4.61	5				1	NA	See version
1109197-01	A	VOC_8260B_REG	09/28/2011	4.13	5				1	NA	See version
1109200-01	A	VOC_8260B_REG	09/28/2011	6.85	5				1	NA	See version
1109200-02	A	VOC_8260B_REG	09/28/2011	6.51	5				1	NA	See version
1109200-03	A	VOC_8260B_REG	09/28/2011	6.21	5				1	NA	See version
1109200-04	A	VOC_8260B_REG	09/28/2011	6.51	5				1	NA	See version
1I28025-BLK1		QC	09/28/2011	5	5				1	NA	
1I28025-BLK2		QC	09/28/2011	5	5				1	NA	
1I28025-BLK3		QC	09/28/2011	5	5				1	NA	prep.bl-9/23 for 9133-01
1I28025-BS1		QC	09/28/2011	5	5	11I0782		2.5	1	NA	
1I28025-BSD1		QC	09/28/2011	5	5	11I0782		2.5	1	NA	

Spiking Witnessed By Date

Preparation Reviewed By Date

Extracts Received By Date

475

1109191

PREPARATION BENCH SHEET

1I28025

Empirical Laboratories, LLC

Printed: 10/21/2011 2:04:46PM

Instrument: VOA5

Matrix: Solid **Prepared using: MS - 5035** **Surrogate used: 11A0564**

Lab Number	Cont ID	Analysis	Prepared	Initial (g)	Final (mL)	Spike ID	Source ID	ul Spike	ul Surrogate	PH	Extraction Comments

Reagents Used:

Standard	Description

Spiking Witnessed By Date

Preparation Reviewed By Date

Extracts Received By Date

476

1109191

Data for SW8270C Forms

ANALYSIS DATA SHEET

FLC-4-SS01-0006-092211

Laboratory:	Empirical Laboratories, LLC			SDG:	1109191
Client:	Tetra Tech NUS, Inc. (T010)			Project:	Navy Fuel Depot CTO JM46
Matrix:	Soil	Laboratory ID:	1109191-01	File ID:	0919101.D
Sampled:	09/22/11 08:45	Prepared:	10/04/11 11:00	Analyzed:	10/15/11 01:33
Solids:	97.94	Preparation:	EXT_3546	Dilution:	1

Batch: 1J03009 Sequence: 1J29003 Calibration: 1236001 Instrument: MS-BNA3

CAS NO.	COMPOUND	CONC. (ug/Kg dry)	DL	LOD	LOQ	Q
83-32-9	Acenaphthene		85.1	171	340	U
208-96-8	Acenaphthylene		85.1	171	340	U
98-86-2	Acetophenone		85.1	171	340	U
120-12-7	Anthracene		85.1	171	340	U
1912-24-9	Atrazine		85.1	171	340	U
100-52-7	Benzaldehyde		85.1	171	340	U
56-55-3	Benzo(a)anthracene		85.1	171	340	U
50-32-8	Benzo(a)pyrene		85.1	171	340	U
205-99-2	Benzo(b)fluoranthene		85.1	171	340	U
191-24-2	Benzo(g,h,i)perylene		85.1	171	340	Y, U
207-08-9	Benzo(k)fluoranthene		85.1	171	340	U
92-52-4	1,1-Biphenyl		85.1	171	340	U
101-55-3	4-Bromophenyl-phenylether		85.1	171	340	U
85-68-7	Butylbenzylphthalate		85.1	171	340	U
105-60-2	Caprolactam		85.1	171	340	U
86-74-8	Carbazole		85.1	171	340	U
59-50-7	4-Chloro-3-methylphenol		85.1	171	340	U
106-47-8	4-Chloroaniline		85.1	171	340	U
111-91-1	Bis(2-chloroethoxy)methane		85.1	171	340	U
111-44-4	Bis(2-chloroethyl)ether		85.1	171	340	U
108-60-1	2,2'-Oxybis-1-chloropropane		85.1	171	340	U
91-58-7	2-Chloronaphthalene		85.1	171	340	U
95-57-8	2-Chlorophenol		85.1	171	340	U
7005-72-3	4-Chlorophenyl phenyl ether		85.1	171	340	U
218-01-9	Chrysene		85.1	171	340	U
53-70-3	Dibenz(a,h)anthracene		85.1	171	340	Y, U
132-64-9	Dibenzofuran		85.1	171	340	U
84-74-2	Di-n-butylphthalate		85.1	171	340	U
91-94-1	3,3'-Dichlorobenzidine		85.1	171	340	U
120-83-2	2,4-Dichlorophenol		85.1	171	340	U
84-66-2	Diethylphthalate		85.1	171	340	U
105-67-9	2,4-Dimethylphenol		340	681	1360	U
131-11-3	Dimethyl phthalate		85.1	171	340	U
534-52-1	4,6-Dinitro-2-methylphenol		851	1710	3400	U
51-28-5	2,4-Dinitrophenol		851	1710	3400	X, U
121-14-2	2,4-Dinitrotoluene		85.1	171	340	U
606-20-2	2,6-Dinitrotoluene		85.1	171	340	U
117-84-0	Di-n-octylphthalate		85.1	171	340	Q, U
117-81-7	Bis(2-ethylhexyl)phthalate		85.1	171	340	U

ANALYSIS DATA SHEET

FLC-4-SS01-0006-092211

Laboratory:	Empirical Laboratories, LLC			SDG:	1109191
Client:	Tetra Tech NUS, Inc. (T010)			Project:	Navy Fuel Depot CTO JM46
Matrix:	Soil	Laboratory ID:	1109191-01	File ID:	0919101.D
Sampled:	09/22/11 08:45	Prepared:	10/04/11 11:00	Analyzed:	10/15/11 01:33
Solids:	97.94	Preparation:	EXT_3546	Dilution:	1
Batch:	1J03009	Sequence:	1J29003	Calibration:	1236001
Instrument:	MS-BNA3				

CAS NO.	COMPOUND	CONC. (ug/Kg dry)	DL	LOD	LOQ	Q
206-44-0	Fluoranthene		85.1	171	340	U
86-73-7	Fluorene		85.1	171	340	U
118-74-1	Hexachlorobenzene		85.1	171	340	U
87-68-3	Hexachlorobutadiene		85.1	171	340	Q, X, U
77-47-4	Hexachlorocyclopentadiene		85.1	171	340	U
67-72-1	Hexachloroethane		85.1	171	340	U
193-39-5	Indeno(1,2,3-cd)pyrene		85.1	171	340	Y, U
78-59-1	Isophorone		85.1	171	340	U
90-12-0	1-Methylnaphthalene		85.1	171	340	U
91-57-6	2-Methylnaphthalene		85.1	171	340	U
95-48-7	2-Methylphenol		85.1	171	340	U
106-44-5	4-Methylphenol		85.1	171	340	U
91-20-3	Naphthalene		85.1	171	340	U
100-01-6	4-Nitroaniline		340	681	1360	U
99-09-2	3-Nitroaniline		340	681	1360	U
88-74-4	2-Nitroaniline		340	681	1360	U
98-95-3	Nitrobenzene		85.1	171	340	U
100-02-7	4-Nitrophenol		340	681	1360	U
88-75-5	2-Nitrophenol		85.1	171	340	U
86-30-6	N-Nitrosodiphenylamine		85.1	171	340	U
621-64-7	N-Nitroso-di-n-propylamine		85.1	171	340	Q, U
87-86-5	Pentachlorophenol		340	681	1360	U
85-01-8	Phenanthrene		85.1	171	340	U
108-95-2	Phenol		85.1	171	340	U
129-00-0	Pyrene		85.1	171	340	U
95-94-3	1,2,4,5-Tetrachlorobenzene		85.1	171	340	U
58-90-2	2,3,4,6-Tetrachlorophenol		85.1	171	340	U
88-06-2	2,4,6-Trichlorophenol		85.1	171	340	U
95-95-4	2,4,5-Trichlorophenol		85.1	171	340	U

SYSTEM MONITORING COMPOUND	ADDED (ug/Kg dry)	CONC (ug/Kg dry)	% REC	QC LIMITS	Q
2-Fluorobiphenyl	3404	2695	79.2	45 - 105	
2-Fluorophenol	6807	4843	71.1	35 - 105	
Nitrobenzene-d5	3404	2627	77.2	35 - 100	
Phenol-d6	6807	5175	76.0	40 - 100	
Terphenyl-d14	3404	3610	106	30 - 125	
2,4,6-Tribromophenol	6807	5041	74.1	35 - 125	

ANALYSIS DATA SHEET

FLC-4-SS01-0624-092211

Laboratory:	Empirical Laboratories, LLC			SDG:	1109191
Client:	Tetra Tech NUS, Inc. (T010)			Project:	Navy Fuel Depot CTO JM46
Matrix:	Soil	Laboratory ID:	1109191-02	File ID:	0919102.D
Sampled:	09/22/11 09:00	Prepared:	10/04/11 11:00	Analyzed:	10/15/11 02:12
Solids:	96.12	Preparation:	EXT_3546	Dilution:	1
Batch:	1J03009	Sequence:	1J29003	Calibration:	1236001
Instrument:	MS-BNA3				

CAS NO.	COMPOUND	CONC. (ug/Kg dry)	DL	LOD	LOQ	Q
83-32-9	Acenaphthene		85.5	171	342	U
208-96-8	Acenaphthylene		85.5	171	342	U
98-86-2	Acetophenone		85.5	171	342	U
120-12-7	Anthracene		85.5	171	342	U
1912-24-9	Atrazine		85.5	171	342	U
100-52-7	Benzaldehyde		85.5	171	342	U
56-55-3	Benzo(a)anthracene		85.5	171	342	U
50-32-8	Benzo(a)pyrene		85.5	171	342	U
205-99-2	Benzo(b)fluoranthene		85.5	171	342	U
191-24-2	Benzo(g,h,i)perylene		85.5	171	342	Y, U
207-08-9	Benzo(k)fluoranthene		85.5	171	342	U
92-52-4	1,1-Biphenyl		85.5	171	342	U
101-55-3	4-Bromophenyl-phenylether		85.5	171	342	U
85-68-7	Butylbenzylphthalate		85.5	171	342	U
105-60-2	Caprolactam		85.5	171	342	U
86-74-8	Carbazole		85.5	171	342	U
59-50-7	4-Chloro-3-methylphenol		85.5	171	342	U
106-47-8	4-Chloroaniline		85.5	171	342	U
111-91-1	Bis(2-chloroethoxy)methane		85.5	171	342	U
111-44-4	Bis(2-chloroethyl)ether		85.5	171	342	U
108-60-1	2,2'-Oxybis-1-chloropropane		85.5	171	342	U
91-58-7	2-Chloronaphthalene		85.5	171	342	U
95-57-8	2-Chlorophenol		85.5	171	342	U
7005-72-3	4-Chlorophenyl phenyl ether		85.5	171	342	U
218-01-9	Chrysene		85.5	171	342	U
53-70-3	Dibenz(a,h)anthracene		85.5	171	342	Y, U
132-64-9	Dibenzofuran		85.5	171	342	U
84-74-2	Di-n-butylphthalate		85.5	171	342	U
91-94-1	3,3'-Dichlorobenzidine		85.5	171	342	U
120-83-2	2,4-Dichlorophenol		85.5	171	342	U
84-66-2	Diethylphthalate		85.5	171	342	U
105-67-9	2,4-Dimethylphenol		342	685	1370	U
131-11-3	Dimethyl phthalate		85.5	171	342	U
534-52-1	4,6-Dinitro-2-methylphenol		855	1710	3420	U
51-28-5	2,4-Dinitrophenol		855	1710	3420	N, X, U
121-14-2	2,4-Dinitrotoluene		85.5	171	342	U
606-20-2	2,6-Dinitrotoluene		85.5	171	342	U
117-84-0	Di-n-octylphthalate		85.5	171	342	Q, U
117-81-7	Bis(2-ethylhexyl)phthalate		85.5	171	342	U

ANALYSIS DATA SHEET

FLC-4-SS01-0624-092211

Laboratory:	Empirical Laboratories, LLC			SDG:	1109191
Client:	Tetra Tech NUS, Inc. (T010)			Project:	Navy Fuel Depot CTO JM46
Matrix:	Soil	Laboratory ID:	1109191-02	File ID:	0919102.D
Sampled:	09/22/11 09:00	Prepared:	10/04/11 11:00	Analyzed:	10/15/11 02:12
Solids:	96.12	Preparation:	EXT_3546	Dilution:	1
Batch:	1J03009	Sequence:	1J29003	Calibration:	1236001	Instrument:	MS-BNA3

CAS NO.	COMPOUND	CONC. (ug/Kg dry)	DL	LOD	LOQ	Q
206-44-0	Fluoranthene		85.5	171	342	U
86-73-7	Fluorene		85.5	171	342	U
118-74-1	Hexachlorobenzene		85.5	171	342	U
87-68-3	Hexachlorobutadiene		85.5	171	342	Q, X, U
77-47-4	Hexachlorocyclopentadiene		85.5	171	342	U
67-72-1	Hexachloroethane		85.5	171	342	U
193-39-5	Indeno(1,2,3-cd)pyrene		85.5	171	342	Y, U
78-59-1	Isophorone		85.5	171	342	U
90-12-0	1-Methylnaphthalene		85.5	171	342	U
91-57-6	2-Methylnaphthalene		85.5	171	342	U
95-48-7	2-Methylphenol		85.5	171	342	U
106-44-5	4-Methylphenol		85.5	171	342	U
91-20-3	Naphthalene		85.5	171	342	U
100-01-6	4-Nitroaniline		342	685	1370	U
99-09-2	3-Nitroaniline		342	685	1370	U
88-74-4	2-Nitroaniline		342	685	1370	U
98-95-3	Nitrobenzene		85.5	171	342	U
100-02-7	4-Nitrophenol		342	685	1370	U
88-75-5	2-Nitrophenol		85.5	171	342	U
86-30-6	N-Nitrosodiphenylamine		85.5	171	342	N, U
621-64-7	N-Nitroso-di-n-propylamine		85.5	171	342	Q, U
87-86-5	Pentachlorophenol		342	685	1370	U
85-01-8	Phenanthrene		85.5	171	342	U
108-95-2	Phenol		85.5	171	342	U
129-00-0	Pyrene		85.5	171	342	U
95-94-3	1,2,4,5-Tetrachlorobenzene		85.5	171	342	U
58-90-2	2,3,4,6-Tetrachlorophenol		85.5	171	342	U
88-06-2	2,4,6-Trichlorophenol		85.5	171	342	U
95-95-4	2,4,5-Trichlorophenol		85.5	171	342	U

SYSTEM MONITORING COMPOUND	ADDED (ug/Kg dry)	CONC (ug/Kg dry)	% REC	QC LIMITS	Q
2-Fluorobiphenyl	3422	2711	79.2	45 - 105	
2-Fluorophenol	6845	4435	64.8	35 - 105	
Nitrobenzene-d5	3422	2559	74.8	35 - 100	
Phenol-d6	6845	4629	67.6	40 - 100	
Terphenyl-d14	3422	3162	92.4	30 - 125	
2,4,6-Tribromophenol	6845	5059	73.9	35 - 125	

ANALYSIS DATA SHEET

FLC-4-SB01-0204-092211

Laboratory:	Empirical Laboratories, LLC			SDG:	1109191
Client:	Tetra Tech NUS, Inc. (T010)			Project:	Navy Fuel Depot CTO JM46
Matrix:	Soil	Laboratory ID:	1109191-03	File ID:	0919103.D
Sampled:	09/22/11 09:25	Prepared:	10/04/11 11:00	Analyzed:	10/15/11 14:52
Solids:	89.14	Preparation:	EXT_3546	Dilution:	1

Batch: 1J03009 Sequence: 1J29105 Calibration: 1236001 Instrument: MS-BNA3

CAS NO.	COMPOUND	CONC. (ug/Kg dry)	DL	LOD	LOQ	Q
83-32-9	Acenaphthene		93.4	187	374	U
208-96-8	Acenaphthylene		93.4	187	374	U
98-86-2	Acetophenone		93.4	187	374	U
120-12-7	Anthracene		93.4	187	374	U
1912-24-9	Atrazine		93.4	187	374	U
100-52-7	Benzaldehyde		93.4	187	374	U
56-55-3	Benzo(a)anthracene		93.4	187	374	U
50-32-8	Benzo(a)pyrene		93.4	187	374	U
205-99-2	Benzo(b)fluoranthene		93.4	187	374	U
191-24-2	Benzo(g,h,i)perylene		93.4	187	374	Y, U
207-08-9	Benzo(k)fluoranthene		93.4	187	374	U
92-52-4	1,1-Biphenyl		93.4	187	374	U
101-55-3	4-Bromophenyl-phenylether		93.4	187	374	U
85-68-7	Butylbenzylphthalate		93.4	187	374	U
105-60-2	Caprolactam		93.4	187	374	U
86-74-8	Carbazole		93.4	187	374	U
59-50-7	4-Chloro-3-methylphenol		93.4	187	374	U
106-47-8	4-Chloroaniline		93.4	187	374	U
111-91-1	Bis(2-chloroethoxy)methane		93.4	187	374	U
111-44-4	Bis(2-chloroethyl)ether		93.4	187	374	U
108-60-1	2,2'-Oxybis-1-chloropropane		93.4	187	374	Y, U
91-58-7	2-Chloronaphthalene		93.4	187	374	U
95-57-8	2-Chlorophenol		93.4	187	374	U
7005-72-3	4-Chlorophenyl phenyl ether		93.4	187	374	U
218-01-9	Chrysene		93.4	187	374	U
53-70-3	Dibenz(a,h)anthracene		93.4	187	374	Y, U
132-64-9	Dibenzofuran		93.4	187	374	U
84-74-2	Di-n-butylphthalate		93.4	187	374	U
91-94-1	3,3'-Dichlorobenzidine		93.4	187	374	U
120-83-2	2,4-Dichlorophenol		93.4	187	374	U
84-66-2	Diethylphthalate		93.4	187	374	U
105-67-9	2,4-Dimethylphenol		374	748	1490	U
131-11-3	Dimethyl phthalate		93.4	187	374	U
534-52-1	4,6-Dinitro-2-methylphenol		934	1870	3740	U
51-28-5	2,4-Dinitrophenol		934	1870	3740	X, U
121-14-2	2,4-Dinitrotoluene		93.4	187	374	U
606-20-2	2,6-Dinitrotoluene		93.4	187	374	U
117-84-0	Di-n-octylphthalate		93.4	187	374	Q, U
117-81-7	Bis(2-ethylhexyl)phthalate		93.4	187	374	U

ANALYSIS DATA SHEET

FLC-4-SB01-0204-092211

Laboratory:	Empirical Laboratories, LLC			SDG:	1109191
Client:	Tetra Tech NUS, Inc. (T010)			Project:	Navy Fuel Depot CTO JM46
Matrix:	Soil	Laboratory ID:	1109191-03	File ID:	0919103.D
Sampled:	09/22/11 09:25	Prepared:	10/04/11 11:00	Analyzed:	10/15/11 14:52
Solids:	89.14	Preparation:	EXT_3546	Dilution:	1
Batch:	1J03009	Sequence:	1J29105	Calibration:	1236001
Instrument:	MS-BNA3				

CAS NO.	COMPOUND	CONC. (ug/Kg dry)	DL	LOD	LOQ	Q
206-44-0	Fluoranthene		93.4	187	374	U
86-73-7	Fluorene		93.4	187	374	U
118-74-1	Hexachlorobenzene		93.4	187	374	U
87-68-3	Hexachlorobutadiene		93.4	187	374	X, Q, U
77-47-4	Hexachlorocyclopentadiene		93.4	187	374	U
67-72-1	Hexachloroethane		93.4	187	374	U
193-39-5	Indeno(1,2,3-cd)pyrene		93.4	187	374	Y, U
78-59-1	Isophorone		93.4	187	374	U
90-12-0	1-Methylnaphthalene		93.4	187	374	U
91-57-6	2-Methylnaphthalene		93.4	187	374	U
95-48-7	2-Methylphenol		93.4	187	374	U
106-44-5	4-Methylphenol		93.4	187	374	U
91-20-3	Naphthalene		93.4	187	374	U
100-01-6	4-Nitroaniline		374	748	1490	U
99-09-2	3-Nitroaniline		374	748	1490	U
88-74-4	2-Nitroaniline		374	748	1490	U
98-95-3	Nitrobenzene		93.4	187	374	U
100-02-7	4-Nitrophenol		374	748	1490	U
88-75-5	2-Nitrophenol		93.4	187	374	U
86-30-6	N-Nitrosodiphenylamine		93.4	187	374	U
621-64-7	N-Nitroso-di-n-propylamine		93.4	187	374	Q, U
87-86-5	Pentachlorophenol		374	748	1490	U
85-01-8	Phenanthrene		93.4	187	374	U
108-95-2	Phenol		93.4	187	374	U
129-00-0	Pyrene		93.4	187	374	U
95-94-3	1,2,4,5-Tetrachlorobenzene		93.4	187	374	U
58-90-2	2,3,4,6-Tetrachlorophenol		93.4	187	374	U
88-06-2	2,4,6-Trichlorophenol		93.4	187	374	U
95-95-4	2,4,5-Trichlorophenol		93.4	187	374	U

SYSTEM MONITORING COMPOUND	ADDED (ug/Kg dry)	CONC (ug/Kg dry)	% REC	QC LIMITS	Q
2-Fluorobiphenyl	3739	2992	80.0	45 - 105	
2-Fluorophenol	7479	5545	74.1	35 - 105	
Nitrobenzene-d5	3739	3009	80.5	35 - 100	
Phenol-d6	7479	4991	66.7	40 - 100	
Terphenyl-d14	3739	3446	92.2	30 - 125	
2,4,6-Tribromophenol	7479	5650	75.5	35 - 125	

ANALYSIS DATA SHEET

FLC-4-SS02-0006-092211

Laboratory:	Empirical Laboratories, LLC			SDG:	1109191
Client:	Tetra Tech NUS, Inc. (T010)			Project:	Navy Fuel Depot CTO JM46
Matrix:	Soil	Laboratory ID:	1109191-04	File ID:	0919104D.D
Sampled:	09/22/11 10:05	Prepared:	10/04/11 11:00	Analyzed:	10/15/11 20:10
Solids:	93.66	Preparation:	EXT_3546	Dilution:	5
Batch:	1J03009	Sequence:	1J29105	Calibration:	1236001
Instrument:	MS-BNA3				

CAS NO.	COMPOUND	CONC. (ug/Kg dry)	DL	LOD	LOQ	Q
83-32-9	Acenaphthene		442	886	1770	U
208-96-8	Acenaphthylene		442	886	1770	U
98-86-2	Acetophenone		442	886	1770	U
120-12-7	Anthracene		442	886	1770	U
1912-24-9	Atrazine		442	886	1770	U
100-52-7	Benzaldehyde		442	886	1770	U
56-55-3	Benzo(a)anthracene		442	886	1770	U
50-32-8	Benzo(a)pyrene		442	886	1770	U
205-99-2	Benzo(b)fluoranthene	705	442	886	1770	, D I
191-24-2	Benzo(g,h,i)perylene		442	886	1770	Y, U
207-08-9	Benzo(k)fluoranthene		442	886	1770	U
92-52-4	1,1-Biphenyl		442	886	1770	U
101-55-3	4-Bromophenyl-phenylether		442	886	1770	U
85-68-7	Butylbenzylphthalate		442	886	1770	U
105-60-2	Caprolactam		442	886	1770	U
86-74-8	Carbazole		442	886	1770	U
59-50-7	4-Chloro-3-methylphenol		442	886	1770	U
106-47-8	4-Chloroaniline		442	886	1770	U
111-91-1	Bis(2-chloroethoxy)methane		442	886	1770	U
111-44-4	Bis(2-chloroethyl)ether		442	886	1770	U
108-60-1	2,2'-Oxybis-1-chloropropane		442	886	1770	Y, U
91-58-7	2-Chloronaphthalene		442	886	1770	U
95-57-8	2-Chlorophenol		442	886	1770	U
7005-72-3	4-Chlorophenyl phenyl ether		442	886	1770	U
218-01-9	Chrysene		442	886	1770	U
53-70-3	Dibenz(a,h)anthracene		442	886	1770	Y, U
132-64-9	Dibenzofuran		442	886	1770	U
84-74-2	Di-n-butylphthalate		442	886	1770	U
91-94-1	3,3'-Dichlorobenzidine		442	886	1770	U
120-83-2	2,4-Dichlorophenol		442	886	1770	U
84-66-2	Diethylphthalate		442	886	1770	U
105-67-9	2,4-Dimethylphenol		1770	3540	7050	U
131-11-3	Dimethyl phthalate		442	886	1770	U
534-52-1	4,6-Dinitro-2-methylphenol		4420	8860	17700	U
51-28-5	2,4-Dinitrophenol		4420	8860	17700	X, U
121-14-2	2,4-Dinitrotoluene		442	886	1770	U
606-20-2	2,6-Dinitrotoluene		442	886	1770	U
117-84-0	Di-n-octylphthalate		442	886	1770	Q, U
117-81-7	Bis(2-ethylhexyl)phthalate		442	886	1770	U

ANALYSIS DATA SHEET

FLC-4-SS02-0006-092211

Laboratory:	Empirical Laboratories, LLC			SDG:	1109191
Client:	Tetra Tech NUS, Inc. (T010)			Project:	Navy Fuel Depot CTO JM46
Matrix:	Soil	Laboratory ID:	1109191-04	File ID:	0919104D.D
Sampled:	09/22/11 10:05	Prepared:	10/04/11 11:00	Analyzed:	10/15/11 20:10
Solids:	93.66	Preparation:	EXT_3546	Dilution:	5
Batch:	1J03009	Sequence:	1J29105	Calibration:	1236001
Instrument:	MS-BNA3				

CAS NO.	COMPOUND	CONC. (ug/Kg dry)	DL	LOD	LOQ	Q
206-44-0	Fluoranthene		442	886	1770	U
86-73-7	Fluorene		442	886	1770	U
118-74-1	Hexachlorobenzene		442	886	1770	U
87-68-3	Hexachlorobutadiene		442	886	1770	X, Q, U
77-47-4	Hexachlorocyclopentadiene		442	886	1770	U
67-72-1	Hexachloroethane		442	886	1770	U
193-39-5	Indeno(1,2,3-cd)pyrene		442	886	1770	Y, U
78-59-1	Isophorone		442	886	1770	U
90-12-0	1-Methylnaphthalene		442	886	1770	U
91-57-6	2-Methylnaphthalene		442	886	1770	U
95-48-7	2-Methylphenol		442	886	1770	U
106-44-5	4-Methylphenol		442	886	1770	U
91-20-3	Naphthalene		442	886	1770	U
100-01-6	4-Nitroaniline		1770	3540	7050	U
99-09-2	3-Nitroaniline		1770	3540	7050	U
88-74-4	2-Nitroaniline		1770	3540	7050	U
98-95-3	Nitrobenzene		442	886	1770	U
100-02-7	4-Nitrophenol		1770	3540	7050	U
88-75-5	2-Nitrophenol		442	886	1770	U
86-30-6	N-Nitrosodiphenylamine		442	886	1770	U
621-64-7	N-Nitroso-di-n-propylamine		442	886	1770	Q, U
87-86-5	Pentachlorophenol		1770	3540	7050	U
85-01-8	Phenanthrene		442	886	1770	U
108-95-2	Phenol		442	886	1770	U
129-00-0	Pyrene	648	442	886	1770	, D I
95-94-3	1,2,4,5-Tetrachlorobenzene		442	886	1770	U
58-90-2	2,3,4,6-Tetrachlorophenol		442	886	1770	U
88-06-2	2,4,6-Trichlorophenol		442	886	1770	U
95-95-4	2,4,5-Trichlorophenol		442	886	1770	U

SYSTEM MONITORING COMPOUND	ADDED (ug/Kg dry)	CONC (ug/Kg dry)	% REC	QC LIMITS	Q
2-Fluorobiphenyl	3535	1259	35.6	45 - 105	* I
2-Fluorophenol	7071	2030	28.7	35 - 105	*
Nitrobenzene-d5	3535	1159	32.8	35 - 100	* I
Phenol-d6	7071	2070	29.3	40 - 100	*
Terphenyl-d14	3535	1851	52.4	30 - 125	
2,4,6-Tribromophenol	7071	2258	31.9	35 - 125	*

ANALYSIS DATA SHEET

FLC-4-SS02-0624-092211

Laboratory:	Empirical Laboratories, LLC			SDG:	1109191
Client:	Tetra Tech NUS, Inc. (T010)			Project:	Navy Fuel Depot CTO JM46
Matrix:	Soil	Laboratory ID:	1109191-05	File ID:	0919105.D
Sampled:	09/22/11 10:20	Prepared:	10/04/11 11:00	Analyzed:	10/15/11 03:32
Solids:	98.08	Preparation:	EXT_3546	Dilution:	1
Batch:	1J03009	Sequence:	1J29003	Calibration:	1236001
Instrument:	MS-BNA3				

CAS NO.	COMPOUND	CONC. (ug/Kg dry)	DL	LOD	LOQ	Q
83-32-9	Acenaphthene		81.7	164	326	U
208-96-8	Acenaphthylene		81.7	164	326	U
98-86-2	Acetophenone		81.7	164	326	U
120-12-7	Anthracene		81.7	164	326	U
1912-24-9	Atrazine		81.7	164	326	U
100-52-7	Benzaldehyde		81.7	164	326	U
56-55-3	Benzo(a)anthracene		81.7	164	326	U
50-32-8	Benzo(a)pyrene		81.7	164	326	U
205-99-2	Benzo(b)fluoranthene		81.7	164	326	U
191-24-2	Benzo(g,h,i)perylene		81.7	164	326	Y, U
207-08-9	Benzo(k)fluoranthene		81.7	164	326	U
92-52-4	1,1-Biphenyl		81.7	164	326	U
101-55-3	4-Bromophenyl-phenylether		81.7	164	326	U
85-68-7	Butylbenzylphthalate		81.7	164	326	U
105-60-2	Caprolactam		81.7	164	326	U
86-74-8	Carbazole		81.7	164	326	U
59-50-7	4-Chloro-3-methylphenol		81.7	164	326	U
106-47-8	4-Chloroaniline		81.7	164	326	U
111-91-1	Bis(2-chloroethoxy)methane		81.7	164	326	U
111-44-4	Bis(2-chloroethyl)ether		81.7	164	326	U
108-60-1	2,2'-Oxybis-1-chloropropane		81.7	164	326	U
91-58-7	2-Chloronaphthalene		81.7	164	326	U
95-57-8	2-Chlorophenol		81.7	164	326	U
7005-72-3	4-Chlorophenyl phenyl ether		81.7	164	326	U
218-01-9	Chrysene		81.7	164	326	U
53-70-3	Dibenz(a,h)anthracene		81.7	164	326	Y, U
132-64-9	Dibenzofuran		81.7	164	326	U
84-74-2	Di-n-butylphthalate		81.7	164	326	U
91-94-1	3,3'-Dichlorobenzidine		81.7	164	326	U
120-83-2	2,4-Dichlorophenol		81.7	164	326	U
84-66-2	Diethylphthalate		81.7	164	326	U
105-67-9	2,4-Dimethylphenol		326	654	1300	U
131-11-3	Dimethyl phthalate		81.7	164	326	U
534-52-1	4,6-Dinitro-2-methylphenol		817	1640	3260	U
51-28-5	2,4-Dinitrophenol		817	1640	3260	X, U
121-14-2	2,4-Dinitrotoluene		81.7	164	326	U
606-20-2	2,6-Dinitrotoluene		81.7	164	326	U
117-84-0	Di-n-octylphthalate		81.7	164	326	Q, U
117-81-7	Bis(2-ethylhexyl)phthalate		81.7	164	326	U

ANALYSIS DATA SHEET

FLC-4-SS02-0624-092211

Laboratory:	Empirical Laboratories, LLC			SDG:	1109191
Client:	Tetra Tech NUS, Inc. (T010)			Project:	Navy Fuel Depot CTO JM46
Matrix:	Soil	Laboratory ID:	1109191-05	File ID:	0919105.D
Sampled:	09/22/11 10:20	Prepared:	10/04/11 11:00	Analyzed:	10/15/11 03:32
Solids:	98.08	Preparation:	EXT_3546	Dilution:	1
Batch:	1J03009	Sequence:	1J29003	Calibration:	1236001
Instrument:	MS-BNA3				

CAS NO.	COMPOUND	CONC. (ug/Kg dry)	DL	LOD	LOQ	Q
206-44-0	Fluoranthene		81.7	164	326	U
86-73-7	Fluorene		81.7	164	326	U
118-74-1	Hexachlorobenzene		81.7	164	326	U
87-68-3	Hexachlorobutadiene		81.7	164	326	Q, X, U
77-47-4	Hexachlorocyclopentadiene		81.7	164	326	U
67-72-1	Hexachloroethane		81.7	164	326	U
193-39-5	Indeno(1,2,3-cd)pyrene		81.7	164	326	Y, U
78-59-1	Isophorone		81.7	164	326	U
90-12-0	1-Methylnaphthalene		81.7	164	326	U
91-57-6	2-Methylnaphthalene		81.7	164	326	U
95-48-7	2-Methylphenol		81.7	164	326	U
106-44-5	4-Methylphenol		81.7	164	326	U
91-20-3	Naphthalene		81.7	164	326	U
100-01-6	4-Nitroaniline		326	654	1300	U
99-09-2	3-Nitroaniline		326	654	1300	U
88-74-4	2-Nitroaniline		326	654	1300	U
98-95-3	Nitrobenzene		81.7	164	326	U
100-02-7	4-Nitrophenol		326	654	1300	U
88-75-5	2-Nitrophenol		81.7	164	326	U
86-30-6	N-Nitrosodiphenylamine		81.7	164	326	U
621-64-7	N-Nitroso-di-n-propylamine		81.7	164	326	Q, U
87-86-5	Pentachlorophenol		326	654	1300	U
85-01-8	Phenanthrene		81.7	164	326	U
108-95-2	Phenol		81.7	164	326	U
129-00-0	Pyrene		81.7	164	326	U
95-94-3	1,2,4,5-Tetrachlorobenzene		81.7	164	326	U
58-90-2	2,3,4,6-Tetrachlorophenol		81.7	164	326	U
88-06-2	2,4,6-Trichlorophenol		81.7	164	326	U
95-95-4	2,4,5-Trichlorophenol		81.7	164	326	U

SYSTEM MONITORING COMPOUND	ADDED (ug/Kg dry)	CONC (ug/Kg dry)	% REC	QC LIMITS	Q
2-Fluorobiphenyl	3268	2660	81.4	45 - 105	
2-Fluorophenol	6536	5074	77.6	35 - 105	
Nitrobenzene-d5	3268	2631	80.5	35 - 100	
Phenol-d6	6536	4954	75.8	40 - 100	
Terphenyl-d14	3268	3311	101	30 - 125	
2,4,6-Tribromophenol	6536	5120	78.3	35 - 125	

ANALYSIS DATA SHEET

FLC-4-SB02-0204-092211

Laboratory:	Empirical Laboratories, LLC			SDG:	1109191
Client:	Tetra Tech NUS, Inc. (T010)			Project:	Navy Fuel Depot CTO JM46
Matrix:	Soil	Laboratory ID:	1109191-06	File ID:	0919106.D
Sampled:	09/22/11 10:30	Prepared:	10/04/11 11:00	Analyzed:	10/15/11 19:30
Solids:	94.12	Preparation:	EXT_3546	Dilution:	1

Batch: 1J03009 Sequence: 1J29105 Calibration: 1236001 Instrument: MS-BNA3

CAS NO.	COMPOUND	CONC. (ug/Kg dry)	DL	LOD	LOQ	Q
83-32-9	Acenaphthene		84.6	170	338	U
208-96-8	Acenaphthylene		84.6	170	338	U
98-86-2	Acetophenone		84.6	170	338	U
120-12-7	Anthracene		84.6	170	338	U
1912-24-9	Atrazine		84.6	170	338	U
100-52-7	Benzaldehyde		84.6	170	338	U
56-55-3	Benzo(a)anthracene		84.6	170	338	U
50-32-8	Benzo(a)pyrene		84.6	170	338	U
205-99-2	Benzo(b)fluoranthene		84.6	170	338	U
191-24-2	Benzo(g,h,i)perylene		84.6	170	338	Y, U
207-08-9	Benzo(k)fluoranthene		84.6	170	338	U
92-52-4	1,1-Biphenyl		84.6	170	338	U
101-55-3	4-Bromophenyl-phenylether		84.6	170	338	U
85-68-7	Butylbenzylphthalate		84.6	170	338	U
105-60-2	Caprolactam		84.6	170	338	U
86-74-8	Carbazole		84.6	170	338	U
59-50-7	4-Chloro-3-methylphenol		84.6	170	338	U
106-47-8	4-Chloroaniline		84.6	170	338	U
111-91-1	Bis(2-chloroethoxy)methane		84.6	170	338	U
111-44-4	Bis(2-chloroethyl)ether		84.6	170	338	U
108-60-1	2,2'-Oxybis-1-chloropropane		84.6	170	338	Y, U
91-58-7	2-Chloronaphthalene		84.6	170	338	U
95-57-8	2-Chlorophenol		84.6	170	338	U
7005-72-3	4-Chlorophenyl phenyl ether		84.6	170	338	U
218-01-9	Chrysene		84.6	170	338	U
53-70-3	Dibenz(a,h)anthracene		84.6	170	338	Y, U
132-64-9	Dibenzofuran		84.6	170	338	U
84-74-2	Di-n-butylphthalate		84.6	170	338	U
91-94-1	3,3'-Dichlorobenzidine		84.6	170	338	U
120-83-2	2,4-Dichlorophenol		84.6	170	338	U
84-66-2	Diethylphthalate		84.6	170	338	U
105-67-9	2,4-Dimethylphenol		338	677	1350	U
131-11-3	Dimethyl phthalate		84.6	170	338	U
534-52-1	4,6-Dinitro-2-methylphenol		846	1700	3380	U
51-28-5	2,4-Dinitrophenol		846	1700	3380	X, U
121-14-2	2,4-Dinitrotoluene		84.6	170	338	U
606-20-2	2,6-Dinitrotoluene		84.6	170	338	U
117-84-0	Di-n-octylphthalate		84.6	170	338	Q, U
117-81-7	Bis(2-ethylhexyl)phthalate		84.6	170	338	U

ANALYSIS DATA SHEET

FLC-4-SB02-0204-092211

Laboratory:	Empirical Laboratories, LLC			SDG:	1109191
Client:	Tetra Tech NUS, Inc. (T010)			Project:	Navy Fuel Depot CTO JM46
Matrix:	Soil	Laboratory ID:	1109191-06	File ID:	0919106.D
Sampled:	09/22/11 10:30	Prepared:	10/04/11 11:00	Analyzed:	10/15/11 19:30
Solids:	94.12	Preparation:	EXT_3546	Dilution:	1
Batch:	1J03009	Sequence:	1J29105	Calibration:	1236001
Instrument:	MS-BNA3				

CAS NO.	COMPOUND	CONC. (ug/Kg dry)	DL	LOD	LOQ	Q
206-44-0	Fluoranthene		84.6	170	338	U
86-73-7	Fluorene		84.6	170	338	U
118-74-1	Hexachlorobenzene		84.6	170	338	U
87-68-3	Hexachlorobutadiene		84.6	170	338	X, Q, U
77-47-4	Hexachlorocyclopentadiene		84.6	170	338	U
67-72-1	Hexachloroethane		84.6	170	338	U
193-39-5	Indeno(1,2,3-cd)pyrene		84.6	170	338	Y, U
78-59-1	Isophorone		84.6	170	338	U
90-12-0	1-Methylnaphthalene		84.6	170	338	U
91-57-6	2-Methylnaphthalene		84.6	170	338	U
95-48-7	2-Methylphenol		84.6	170	338	U
106-44-5	4-Methylphenol		84.6	170	338	U
91-20-3	Naphthalene		84.6	170	338	U
100-01-6	4-Nitroaniline		338	677	1350	U
99-09-2	3-Nitroaniline		338	677	1350	U
88-74-4	2-Nitroaniline		338	677	1350	U
98-95-3	Nitrobenzene		84.6	170	338	U
100-02-7	4-Nitrophenol		338	677	1350	U
88-75-5	2-Nitrophenol		84.6	170	338	U
86-30-6	N-Nitrosodiphenylamine		84.6	170	338	U
621-64-7	N-Nitroso-di-n-propylamine		84.6	170	338	Q, U
87-86-5	Pentachlorophenol		338	677	1350	U
85-01-8	Phenanthrene		84.6	170	338	U
108-95-2	Phenol		84.6	170	338	U
129-00-0	Pyrene		84.6	170	338	U
95-94-3	1,2,4,5-Tetrachlorobenzene		84.6	170	338	U
58-90-2	2,3,4,6-Tetrachlorophenol		84.6	170	338	U
88-06-2	2,4,6-Trichlorophenol		84.6	170	338	U
95-95-4	2,4,5-Trichlorophenol		84.6	170	338	U

SYSTEM MONITORING COMPOUND	ADDED (ug/Kg dry)	CONC (ug/Kg dry)	% REC	QC LIMITS	Q
2-Fluorobiphenyl	3384	2194	64.8	45 - 105	
2-Fluorophenol	6767	3820	56.4	35 - 105	
Nitrobenzene-d5	3384	2144	63.4	35 - 100	
Phenol-d6	6767	3793	56.1	40 - 100	
Terphenyl-d14	3384	3092	91.4	30 - 125	
2,4,6-Tribromophenol	6767	4200	62.1	35 - 125	

ANALYSIS DATA SHEET

FLC-4-RB01-092211

Laboratory:	Empirical Laboratories, LLC			SDG:	1109191
Client:	Tetra Tech NUS, Inc. (T010)			Project:	Navy Fuel Depot CTO JM46
Matrix:	Water	Laboratory ID:	1109191-10	File ID:	0919110.D
Sampled:	09/22/11 11:15	Prepared:	09/27/11 12:00	Analyzed:	10/08/11 13:56
Solids:		Preparation:	EXT_3510	Dilution:	1

Batch: 1I26926 Sequence: 1J28307 Calibration: 1236001 Instrument: MS-BNA3

CAS NO.	COMPOUND	CONC. (ug/L)	DL	LOD	LOQ	Q
98-86-2	Acetophenone		1.17	2.34	4.67	Q, U
1912-24-9	Atrazine		1.17	2.34	4.67	U
100-52-7	Benzaldehyde	1.63	1.17	2.34	4.67	I
92-52-4	1,1-Biphenyl		0.467	2.34	4.67	U
101-55-3	4-Bromophenyl-phenylether		1.17	2.34	4.67	U
85-68-7	Butylbenzylphthalate		1.17	2.34	4.67	Q, U
105-60-2	Caprolactam		1.17	2.34	4.67	Q, U
86-74-8	Carbazole		1.17	2.34	4.67	U
59-50-7	4-Chloro-3-methylphenol		1.17	2.34	4.67	U
106-47-8	4-Chloroaniline		1.17	2.34	4.67	U
111-91-1	Bis(2-chloroethoxy)methane		1.17	2.34	4.67	U
111-44-4	Bis(2-chloroethyl)ether		1.17	2.34	4.67	U
108-60-1	2,2'-Oxybis-1-chloropropane		0.467	2.34	4.67	U
91-58-7	2-Chloronaphthalene		1.17	2.34	4.67	U
95-57-8	2-Chlorophenol		1.17	2.34	4.67	U
7005-72-3	4-Chlorophenyl phenyl ether		1.17	2.34	4.67	U
132-64-9	Dibenzofuran		1.17	2.34	4.67	U
84-74-2	Di-n-butylphthalate		1.17	2.34	4.67	U
91-94-1	3,3'-Dichlorobenzidine		1.17	2.34	4.67	U
120-83-2	2,4-Dichlorophenol		0.234	2.34	4.67	U
84-66-2	Diethylphthalate		1.17	2.34	4.67	U
105-67-9	2,4-Dimethylphenol		4.67	9.35	18.7	U
131-11-3	Dimethyl phthalate		1.17	2.34	4.67	U
534-52-1	4,6-Dinitro-2-methylphenol		4.67	9.35	18.7	U
51-28-5	2,4-Dinitrophenol		11.7	23.4	46.7	X, U
121-14-2	2,4-Dinitrotoluene		1.17	2.34	4.67	U
606-20-2	2,6-Dinitrotoluene		1.17	2.34	4.67	U
117-84-0	Di-n-octylphthalate		1.17	2.34	4.67	X, U
117-81-7	Bis(2-ethylhexyl)phthalate		1.17	2.34	4.67	U
118-74-1	Hexachlorobenzene		0.935	2.34	4.67	U
77-47-4	Hexachlorocyclopentadiene		1.17	2.34	4.67	X, U
67-72-1	Hexachloroethane		1.17	2.34	4.67	U
78-59-1	Isophorone		1.17	2.34	4.67	U
95-48-7	2-Methylphenol		1.17	2.34	4.67	U
106-44-5	4-Methylphenol		1.17	2.34	4.67	U
91-20-3	Naphthalene		1.17	2.34	4.67	U
100-01-6	4-Nitroaniline		1.17	2.34	4.67	U
99-09-2	3-Nitroaniline		1.17	2.34	4.67	U
88-74-4	2-Nitroaniline		4.67	9.35	18.7	U

ANALYSIS DATA SHEET

FLC-4-RB01-092211

Laboratory:	Empirical Laboratories, LLC			SDG:	1109191
Client:	Tetra Tech NUS, Inc. (T010)			Project:	Navy Fuel Depot CTO JM46
Matrix:	Water	Laboratory ID:	1109191-10	File ID:	0919110.D
Sampled:	09/22/11 11:15	Prepared:	09/27/11 12:00	Analyzed:	10/08/11 13:56
Solids:		Preparation:	EXT_3510	Dilution:	1

Batch: 1I26926 Sequence: 1J28307 Calibration: 1236001 Instrument: MS-BNA3

CAS NO.	COMPOUND	CONC. (ug/L)	DL	LOD	LOQ	Q
98-95-3	Nitrobenzene		1.17	2.34	4.67	U
100-02-7	4-Nitrophenol		4.67	9.35	18.7	X, U
88-75-5	2-Nitrophenol		1.17	2.34	4.67	U
86-30-6	N-Nitrosodiphenylamine		1.17	2.34	4.67	U
621-64-7	N-Nitroso-di-n-propylamine		1.17	2.34	4.67	U
108-95-2	Phenol		1.17	2.34	4.67	U
95-94-3	1,2,4,5-Tetrachlorobenzene		1.17	2.34	4.67	U
58-90-2	2,3,4,6-Tetrachlorophenol		1.17	2.34	4.67	U
88-06-2	2,4,6-Trichlorophenol		1.17	2.34	4.67	U
95-95-4	2,4,5-Trichlorophenol		0.467	2.34	4.67	U

SYSTEM MONITORING COMPOUND	ADDED (ug/L)	CONC (ug/L)	% REC	QC LIMITS	Q
2-Fluorobiphenyl	46.73	26.05	55.7	50 - 110	
2-Fluorophenol	93.46	26.17	28.0	20 - 110	
Nitrobenzene-d5	46.73	35.72	76.4	40 - 110	
Phenol-d6	93.46	13.25	14.2	0 - 110	
Terphenyl-d14	46.73	46.88	100	50 - 135	
2,4,6-Tribromophenol	93.46	74.66	79.9	40 - 125	

SURROGATE STANDARD RECOVERY AND RT SUMMARY

SW8270C

Laboratory:	Empirical Laboratories, LLC	SDG:	1109191
Client:	Tetra Tech NUS, Inc. (T010)	Project:	Navy Fuel Depot CTO JM46
Sequence:	1I27208	Instrument:	MS-BNA3
		Calibration:	1236001

Surrogate Compound	Spike Level	% Recovery	Recovery Limits	RT	CCV RT	RT Diff	RT Diff Limit	Q
Calibration Check (1I27208-CCV1) ug/mL				Lab File ID: SEQ-CCV1.D		Analyzed: 09/28/11 13:39		
2-Fluorobiphenyl	50.00	103	80 - 120	9.822	9.822	0.0000	+/-0.500	
2-Fluorophenol	100.0	114	80 - 120	5.324	5.324	0.0000	+/-0.500	
Nitrobenzene-d5	50.00	102	80 - 120	7.541	7.541	0.0000	+/-0.500	
Phenol-d6	100.0	115	80 - 120	6.366	6.366	0.0000	+/-0.500	
Terphenyl-d14	50.00	104	80 - 120	14.972	14.972	0.0000	+/-0.500	
2,4,6-Tribromophenol	100.0	94.3	80 - 120	11.671	11.671	0.0000	+/-0.500	
Blank (1I26926-BLK1) ug/L				Lab File ID: I26926B1.D		Analyzed: 09/28/11 15:02		
2-Fluorobiphenyl	50.00	59.6	50 - 110	9.811	9.822	-0.0110	+/-0.500	
2-Fluorophenol	100.0	37.9	20 - 110	5.319	5.324	-0.0050	+/-0.500	
Nitrobenzene-d5	50.00	80.5	40 - 110	7.53	7.541	-0.0110	+/-0.500	
Phenol-d6	100.0	21.4	0 - 110	6.344	6.366	-0.0220	+/-0.500	
Terphenyl-d14	50.00	92.4	50 - 135	14.961	14.972	-0.0110	+/-0.500	
2,4,6-Tribromophenol	100.0	78.3	40 - 125	11.654	11.671	-0.0170	+/-0.500	
LCS (1I26926-BS1) ug/L				Lab File ID: I26926L1.D		Analyzed: 09/28/11 15:43		
2-Fluorobiphenyl	50.00	58.6	50 - 110	9.812	9.822	-0.0100	+/-0.500	
2-Fluorophenol	100.0	44.9	20 - 110	5.319	5.324	-0.0050	+/-0.500	
Nitrobenzene-d5	50.00	85.6	40 - 110	7.536	7.541	-0.0050	+/-0.500	
Phenol-d6	100.0	25.3	0 - 110	6.35	6.366	-0.0160	+/-0.500	
Terphenyl-d14	50.00	109	50 - 135	14.962	14.972	-0.0100	+/-0.500	
2,4,6-Tribromophenol	100.0	90.0	40 - 125	11.66	11.671	-0.0110	+/-0.500	

SURROGATE STANDARD RECOVERY AND RT SUMMARY

SW8270C

Laboratory:	Empirical Laboratories, LLC	SDG:	1109191
Client:	Tetra Tech NUS, Inc. (T010)	Project:	Navy Fuel Depot CTO JM46
Sequence:	1J28307	Instrument:	MS-BNA3
		Calibration:	1236001

Surrogate Compound	Spike Level	% Recovery	Recovery Limits	RT	CCV RT	RT Diff	RT Diff Limit	Q
Calibration Check (1J28307-CCV1) ug/mL				Lab File ID: SEQ-CCV3.D		Analyzed: 10/08/11 05:54		
2-Fluorobiphenyl	50.00	119	80 - 120	9.841	9.841	0.0000	+/-0.500	
2-Fluorophenol	100.0	105	80 - 120	5.349	5.349	0.0000	+/-0.500	
Nitrobenzene-d5	50.00	115	80 - 120	7.56	7.56	0.0000	+/-0.500	
Phenol-d6	100.0	103	80 - 120	6.428	6.428	0.0000	+/-0.500	
Terphenyl-d14	50.00	113	80 - 120	15.012	15.012	0.0000	+/-0.500	
2,4,6-Tribromophenol	100.0	107	80 - 120	11.722	11.722	0.0000	+/-0.500	
FLC-4-RB01-092211 (1109191-10) ug/L				Lab File ID: 0919110.D		Analyzed: 10/08/11 13:56		
2-Fluorobiphenyl	46.73	55.7	50 - 110	9.828	9.841	-0.0130	+/-0.500	
2-Fluorophenol	93.46	28.0	20 - 110	5.33	5.349	-0.0190	+/-0.500	
Nitrobenzene-d5	46.73	76.4	40 - 110	7.542	7.56	-0.0180	+/-0.500	
Phenol-d6	93.46	14.2	0 - 110	6.393	6.428	-0.0350	+/-0.500	
Terphenyl-d14	46.73	100	50 - 135	14.989	15.012	-0.0230	+/-0.500	
2,4,6-Tribromophenol	93.46	79.9	40 - 125	11.693	11.722	-0.0290	+/-0.500	

SURROGATE STANDARD RECOVERY AND RT SUMMARY

SW8270C

Laboratory:	Empirical Laboratories, LLC	SDG:	1109191
Client:	Tetra Tech NUS, Inc. (T010)	Project:	Navy Fuel Depot CTO JM46
Sequence:	1J29003	Instrument:	MS-BNA3
		Calibration:	1236001

Surrogate Compound	Spike Level	% Recovery	Recovery Limits	RT	CCV RT	RT Diff	RT Diff Limit	Q
Calibration Check (1J29003-CCV1) ug/mL				Lab File ID: SEQ-CCV1.D		Analyzed: 10/14/11 16:44		
2-Fluorobiphenyl	50.00	108	80 - 120	9.864	9.864	0.0000	+/-0.500	
2-Fluorophenol	100.0	96.2	80 - 120	5.339	5.339	0.0000	+/-0.500	
Nitrobenzene-d5	50.00	111	80 - 120	7.583	7.583	0.0000	+/-0.500	
Phenol-d6	100.0	96.6	80 - 120	6.418	6.418	0.0000	+/-0.500	
Terphenyl-d14	50.00	95.1	80 - 120	15.019	15.019	0.0000	+/-0.500	
2,4,6-Tribromophenol	100.0	85.0	80 - 120	11.723	11.723	0.0000	+/-0.500	
Blank (1J03009-BLK1) ug/Kg wet				Lab File ID: J03009B1.D		Analyzed: 10/14/11 22:54		
2-Fluorobiphenyl	3333	90.9	45 - 105	9.853	9.864	-0.0110	+/-0.500	
2-Fluorophenol	6667	86.5	35 - 105	5.328	5.339	-0.0110	+/-0.500	
Nitrobenzene-d5	3333	94.0	35 - 100	7.572	7.583	-0.0110	+/-0.500	
Phenol-d6	6667	86.6	40 - 100	6.407	6.418	-0.0110	+/-0.500	
Terphenyl-d14	3333	106	30 - 125	15.013	15.019	-0.0060	+/-0.500	
2,4,6-Tribromophenol	6667	89.5	35 - 125	11.706	11.723	-0.0170	+/-0.500	
LCS (1J03009-BS1) ug/Kg wet				Lab File ID: J03009L1.D		Analyzed: 10/14/11 23:34		
2-Fluorobiphenyl	3333	90.8	45 - 105	9.853	9.864	-0.0110	+/-0.500	
2-Fluorophenol	6667	89.5	35 - 105	5.328	5.339	-0.0110	+/-0.500	
Nitrobenzene-d5	3333	91.7	35 - 100	7.572	7.583	-0.0110	+/-0.500	
Phenol-d6	6667	94.5	40 - 100	6.408	6.418	-0.0100	+/-0.500	
Terphenyl-d14	3333	104	30 - 125	15.008	15.019	-0.0110	+/-0.500	
2,4,6-Tribromophenol	6667	91.6	35 - 125	11.712	11.723	-0.0110	+/-0.500	
FLC-4-SS01-0006-092211 (1109191-01) ug/Kg dry				Lab File ID: 0919101.D		Analyzed: 10/15/11 01:33		
2-Fluorobiphenyl	3404	79.2	45 - 105	9.848	9.864	-0.0160	+/-0.500	
2-Fluorophenol	6807	71.1	35 - 105	5.318	5.339	-0.0210	+/-0.500	
Nitrobenzene-d5	3404	77.2	35 - 100	7.567	7.583	-0.0160	+/-0.500	
Phenol-d6	6807	76.0	40 - 100	6.397	6.418	-0.0210	+/-0.500	
Terphenyl-d14	3404	106	30 - 125	15.003	15.019	-0.0160	+/-0.500	
2,4,6-Tribromophenol	6807	74.1	35 - 125	11.702	11.723	-0.0210	+/-0.500	
FLC-4-SS01-0624-092211 (1109191-02) ug/Kg dry				Lab File ID: 0919102.D		Analyzed: 10/15/11 02:12		
2-Fluorobiphenyl	3422	79.2	45 - 105	9.853	9.864	-0.0110	+/-0.500	
2-Fluorophenol	6845	64.8	35 - 105	5.323	5.339	-0.0160	+/-0.500	
Nitrobenzene-d5	3422	74.8	35 - 100	7.566	7.583	-0.0170	+/-0.500	
Phenol-d6	6845	67.6	40 - 100	6.402	6.418	-0.0160	+/-0.500	
Terphenyl-d14	3422	92.4	30 - 125	15.008	15.019	-0.0110	+/-0.500	
2,4,6-Tribromophenol	6845	73.9	35 - 125	11.706	11.723	-0.0170	+/-0.500	

SURROGATE STANDARD RECOVERY AND RT SUMMARY

SW8270C

Laboratory:	Empirical Laboratories, LLC	SDG:	1109191
Client:	Tetra Tech NUS, Inc. (T010)	Project:	Navy Fuel Depot CTO JM46
Sequence:	1J29003	Instrument:	MS-BNA3
		Calibration:	1236001

Surrogate Compound	Spike Level	% Recovery	Recovery Limits	RT	CCV RT	RT Diff	RT Diff Limit	Q
FLC-4-SS02-0624-092211 (1109191-05) ug/Kg dry				Lab File ID: 0919105.D		Analyzed: 10/15/11 03:32		
2-Fluorobiphenyl	3268	81.4	45 - 105	9.858	9.864	-0.0060	+/-0.500	
2-Fluorophenol	6536	77.6	35 - 105	5.328	5.339	-0.0110	+/-0.500	
Nitrobenzene-d5	3268	80.5	35 - 100	7.571	7.583	-0.0120	+/-0.500	
Phenol-d6	6536	75.8	40 - 100	6.407	6.418	-0.0110	+/-0.500	
Terphenyl-d14	3268	101	30 - 125	15.013	15.019	-0.0060	+/-0.500	
2,4,6-Tribromophenol	6536	78.3	35 - 125	11.712	11.723	-0.0110	+/-0.500	

SURROGATE STANDARD RECOVERY AND RT SUMMARY

SW8270C

Laboratory:	Empirical Laboratories, LLC	SDG:	1109191
Client:	Tetra Tech NUS, Inc. (T010)	Project:	Navy Fuel Depot CTO JM46
Sequence:	1J29105	Instrument:	MS-BNA3
		Calibration:	1236001

Surrogate Compound	Spike Level	% Recovery	Recovery Limits	RT	CCV RT	RT Diff	RT Diff Limit	Q
Calibration Check (1J29105-CCV1) ug/mL				Lab File ID: SEQ-CCV1.D		Analyzed: 10/15/11 13:33		
2-Fluorobiphenyl	50.00	106	80 - 120	9.874	9.874	0.0000	+/-0.500	
2-Fluorophenol	100.0	101	80 - 120	5.328	5.328	0.0000	+/-0.500	
Nitrobenzene-d5	50.00	109	80 - 120	7.588	7.588	0.0000	+/-0.500	
Phenol-d6	100.0	97.1	80 - 120	6.423	6.423	0.0000	+/-0.500	
Terphenyl-d14	50.00	95.6	80 - 120	15.046	15.046	0.0000	+/-0.500	
2,4,6-Tribromophenol	100.0	94.5	80 - 120	11.734	11.734	0.0000	+/-0.500	
FLC-4-SB01-0204-092211 (1109191-03) ug/Kg dry				Lab File ID: 0919103.D		Analyzed: 10/15/11 14:52		
2-Fluorobiphenyl	3739	80.0	45 - 105	9.87	9.874	-0.0040	+/-0.500	
2-Fluorophenol	7479	74.1	35 - 105	5.33	5.328	0.0020	+/-0.500	
Nitrobenzene-d5	3739	80.5	35 - 100	7.584	7.588	-0.0040	+/-0.500	
Phenol-d6	7479	66.7	40 - 100	6.414	6.423	-0.0090	+/-0.500	
Terphenyl-d14	3739	92.2	30 - 125	15.047	15.046	0.0010	+/-0.500	
2,4,6-Tribromophenol	7479	75.5	35 - 125	11.735	11.734	0.0010	+/-0.500	
Matrix Spike (1J03009-MS1) ug/Kg dry				Lab File ID: 919102MS.D		Analyzed: 10/15/11 18:11		
2-Fluorobiphenyl	3400	72.1	45 - 105	9.875	9.874	0.0010	+/-0.500	
2-Fluorophenol	6800	66.8	35 - 105	5.334	5.328	0.0060	+/-0.500	
Nitrobenzene-d5	3400	70.5	35 - 100	7.588	7.588	0.0000	+/-0.500	
Phenol-d6	6800	66.0	40 - 100	6.423	6.423	0.0000	+/-0.500	
Terphenyl-d14	3400	95.3	30 - 125	15.046	15.046	0.0000	+/-0.500	
2,4,6-Tribromophenol	6800	68.8	35 - 125	11.739	11.734	0.0050	+/-0.500	
Matrix Spike Dup (1J03009-MSD1) ug/Kg dry				Lab File ID: 919102MD.D		Analyzed: 10/15/11 18:51		
2-Fluorobiphenyl	3400	76.4	45 - 105	9.87	9.874	-0.0040	+/-0.500	
2-Fluorophenol	6800	65.1	35 - 105	5.324	5.328	-0.0040	+/-0.500	
Nitrobenzene-d5	3400	73.0	35 - 100	7.578	7.588	-0.0100	+/-0.500	
Phenol-d6	6800	61.2	40 - 100	6.414	6.423	-0.0090	+/-0.500	
Terphenyl-d14	3400	86.3	30 - 125	15.036	15.046	-0.0100	+/-0.500	
2,4,6-Tribromophenol	6800	71.2	35 - 125	11.729	11.734	-0.0050	+/-0.500	
FLC-4-SB02-0204-092211 (1109191-06) ug/Kg dry				Lab File ID: 0919106.D		Analyzed: 10/15/11 19:30		
2-Fluorobiphenyl	3384	64.8	45 - 105	9.875	9.874	0.0010	+/-0.500	
2-Fluorophenol	6767	56.4	35 - 105	5.329	5.328	0.0010	+/-0.500	
Nitrobenzene-d5	3384	63.4	35 - 100	7.584	7.588	-0.0040	+/-0.500	
Phenol-d6	6767	56.1	40 - 100	6.414	6.423	-0.0090	+/-0.500	
Terphenyl-d14	3384	91.4	30 - 125	15.046	15.046	0.0000	+/-0.500	
2,4,6-Tribromophenol	6767	62.1	35 - 125	11.734	11.734	0.0000	+/-0.500	

SURROGATE STANDARD RECOVERY AND RT SUMMARY

SW8270C

Laboratory:	Empirical Laboratories, LLC	SDG:	1109191
Client:	Tetra Tech NUS, Inc. (T010)	Project:	Navy Fuel Depot CTO JM46
Sequence:	1J29105	Instrument:	MS-BNA3
		Calibration:	1236001

Surrogate Compound	Spike Level	% Recovery	Recovery Limits	RT	CCV RT	RT Diff	RT Diff Limit	Q
FLC-4-SS02-0006-092211 (1109191-04) ug/Kg dry				Lab File ID: 0919104D.D		Analyzed: 10/15/11 20:10		
2-Fluorobiphenyl	3535	35.6	45 - 105	9.877	9.874	0.0030	+/-0.500	*
2-Fluorophenol	7071	28.7	35 - 105	5.325	5.328	-0.0030	+/-0.500	*
Nitrobenzene-d5	3535	32.8	35 - 100	7.58	7.588	-0.0080	+/-0.500	*
Phenol-d6	7071	29.3	40 - 100	6.415	6.423	-0.0080	+/-0.500	*
Terphenyl-d14	3535	52.4	30 - 125	15.048	15.046	0.0020	+/-0.500	
2,4,6-Tribromophenol	7071	31.9	35 - 125	11.741	11.734	0.0070	+/-0.500	*

LCS / LCS DUPLICATE RECOVERY

SW8270C

Laboratory:	Empirical Laboratories, LLC	SDG:	1109191
Client:	Tetra Tech NUS, Inc. (T010)	Project:	Navy Fuel Depot CTO JM46
Matrix:	Water		
Batch:	1I26926	Laboratory ID:	1I26926-BS1
Preparation:	EXT_3510	Initial/Final:	1000 mL / 1 mL

ANALYTE	SPIKE ADDED (ug/L)	LCS CONCENTRATION (ug/L)	LCS % REC.	QC LIMITS REC.
Acetophenone	**50.00**	**55.42**	**111**	**50 - 110**
Atrazine	50.00	52.78	106	70 - 115
Benzaldehyde	50.00	53.27	107	10 - 180
1,1-Biphenyl	50.00	52.62	105	50 - 110
4-Bromophenyl-phenylether	50.00	52.29	105	50 - 115
Butylbenzylphthalate	**50.00**	**58.41**	**117**	**45 - 115**
Caprolactam	**50.00**	**7.862**	**15.7**	**20 - 110**
Carbazole	50.00	48.92	97.8	50 - 115
4-Chloro-3-methylphenol	50.00	43.58	87.2	45 - 110
4-Chloroaniline	50.00	41.43	82.9	15 - 110
Bis(2-chloroethoxy)methane	50.00	51.52	103	45 - 105
Bis(2-chloroethyl)ether	50.00	52.11	104	35 - 110
2,2'-Oxybis-1-chloropropane	50.00	38.46	76.9	25 - 130
2-Chloronaphthalene	50.00	46.02	92.0	50 - 105
2-Chlorophenol	50.00	38.56	77.1	35 - 105
4-Chlorophenyl phenyl ether	50.00	54.25	108	50 - 110
Dibenzofuran	50.00	51.10	102	55 - 105
Di-n-butylphthalate	50.00	54.68	109	55 - 115
3,3'-Dichlorobenzidine	50.00	48.36	96.7	20 - 110
2,4-Dichlorophenol	50.00	41.42	82.8	40 - 110
Diethylphthalate	50.00	54.18	108	40 - 120
2,4-Dimethylphenol	50.00	42.41	84.8	30 - 110
Dimethyl phthalate	50.00	54.11	108	25 - 125
4,6-Dinitro-2-methylphenol	50.00	57.14	114	40 - 130
2,4-Dinitrophenol	50.00	43.03	86.1	15 - 140
2,4-Dinitrotoluene	50.00	52.68	105	50 - 120
2,6-Dinitrotoluene	50.00	51.33	103	50 - 115
Di-n-octylphthalate	50.00	58.16	116	35 - 135
Bis(2-ethylhexyl)phthalate	50.00	58.87	118	40 - 125
Hexachlorobenzene	50.00	46.77	93.5	50 - 110

LCS / LCS DUPLICATE RECOVERY

SW8270C

Laboratory:	Empirical Laboratories, LLC	SDG:	1109191
Client:	Tetra Tech NUS, Inc. (T010)	Project:	Navy Fuel Depot CTO JM46
Matrix:	Water		
Batch:	1I26926	Laboratory ID:	1I26926-BS1
Preparation:	EXT_3510	Initial/Final:	1000 mL / 1 mL

ANALYTE	SPIKE ADDED (ug/L)	LCS CONCENTRATION (ug/L)	LCS % REC.	QC LIMITS REC.
Hexachlorocyclopentadiene	50.00	26.61	53.2	10 - 110
Hexachloroethane	50.00	30.91	61.8	30 - 95
Isophorone	50.00	45.82	91.6	50 - 110
2-Methylphenol	50.00	33.42	66.8	40 - 110
4-Methylphenol	50.00	30.07	60.1	30 - 110
Naphthalene	50.00	43.62	87.2	40 - 100
4-Nitroaniline	50.00	45.33	90.7	35 - 120
3-Nitroaniline	50.00	40.71	81.4	20 - 125
2-Nitroaniline	50.00	50.84	102	50 - 115
Nitrobenzene	50.00	48.43	96.9	30 - 110
4-Nitrophenol	50.00	14.12	28.2	0 - 125
2-Nitrophenol	50.00	46.35	92.7	40 - 115
N-Nitrosodiphenylamine	50.00	38.81	77.6	50 - 110
N-Nitroso-di-n-propylamine	50.00	56.91	114	35 - 130
Phenol	50.00	13.29	26.6	0 - 115
1,2,4,5-Tetrachlorobenzene	50.00	46.32	92.6	50 - 125
2,3,4,6-Tetrachlorophenol	50.00	48.74	97.5	50 - 125
2,4,6-Trichlorophenol	50.00	48.02	96.0	50 - 115
2,4,5-Trichlorophenol	50.00	45.46	90.9	50 - 110

LCS / LCS DUPLICATE RECOVERY

SW8270C

Laboratory:	Empirical Laboratories, LLC	SDG:	1109191
Client:	Tetra Tech NUS, Inc. (T010)	Project:	Navy Fuel Depot CTO JM46
Matrix:	Solid		
Batch:	1J03009	Laboratory ID:	1J03009-BS1
Preparation:	EXT_3546	Initial/Final:	15 g / 1 mL

ANALYTE	SPIKE ADDED (ug/Kg wet)	LCS CONCENTRATION (ug/Kg wet)	LCS % REC.	QC LIMITS REC.
Acenaphthene	3333	2804	84.1	45 - 110
Acenaphthylene	3333	2462	73.9	45 - 105
Acetophenone	3333	3294	98.8	35 - 110
Anthracene	3333	2899	87.0	55 - 105
Atrazine	3333	2890	86.7	55 - 105
Benzaldehyde	3333	2359	70.8	10 - 160
Benzo(a)anthracene	3333	3045	91.3	50 - 110
Benzo(a)pyrene	3333	2953	88.6	50 - 110
Benzo(b)fluoranthene	3333	3377	101	45 - 115
Benzo(g,h,i)perylene	3333	3250	97.5	40 - 125
Benzo(k)fluoranthene	3333	3419	103	45 - 125
1,1-Biphenyl	3333	2762	82.9	45 - 110
4-Bromophenyl-phenylether	3333	3355	101	45 - 115
Butylbenzylphthalate	3333	3520	106	50 - 125
Caprolactam	3333	2592	77.7	50 - 110
Carbazole	3333	2732	82.0	45 - 115
4-Chloro-3-methylphenol	3313	3161	95.4	45 - 115
4-Chloroaniline	3333	2470	74.1	10 - 95
Bis(2-chloroethoxy)methane	3333	3284	98.5	45 - 110
Bis(2-chloroethyl)ether	3333	3020	90.6	40 - 105
2,2'-Oxybis-1-chloropropane	3333	2811	84.3	20 - 115
2-Chloronaphthalene	3333	2953	88.6	45 - 105
2-Chlorophenol	3313	2677	80.8	45 - 105
4-Chlorophenyl phenyl ether	3333	3424	103	45 - 110
Chrysene	3333	3082	92.5	55 - 110
Dibenz(a,h)anthracene	3333	3333	100	40 - 125
Dibenzofuran	3333	3154	94.6	50 - 105
Di-n-butylphthalate	3333	3370	101	55 - 110
3,3'-Dichlorobenzidine	3333	2539	76.2	19 - 130
2,4-Dichlorophenol	3313	3009	90.8	45 - 110

LCS / LCS DUPLICATE RECOVERY

SW8270C

Laboratory:	Empirical Laboratories, LLC	SDG:	1109191
Client:	Tetra Tech NUS, Inc. (T010)	Project:	Navy Fuel Depot CTO JM46
Matrix:	Solid		
Batch:	1J03009	Laboratory ID:	1J03009-BS1
Preparation:	EXT_3546	Initial/Final:	15 g / 1 mL

ANALYTE	SPIKE ADDED (ug/Kg wet)	LCS CONCENTRATION (ug/Kg wet)	LCS % REC.	QC LIMITS REC.
Diethylphthalate	3333	3594	108	50 - 115
2,4-Dimethylphenol	3313	2970	89.6	30 - 105
Dimethyl phthalate	3333	3401	102	50 - 110
4,6-Dinitro-2-methylphenol	3313	3028	91.4	30 - 135
2,4-Dinitrophenol	3313	3183	96.1	15 - 130
2,4-Dinitrotoluene	3333	3353	101	50 - 115
2,6-Dinitrotoluene	3333	3129	93.9	50 - 110
Di-n-octylphthalate	**3333**	**4651**	**140**	**40 - 130**
Bis(2-ethylhexyl)phthalate	3333	3550	107	45 - 125
Fluoranthene	3333	3048	91.4	55 - 115
Fluorene	3333	3060	91.8	50 - 110
Hexachlorobenzene	3333	3017	90.5	45 - 120
Hexachlorobutadiene	**3333**	**3920**	**118**	**30 - 110**
Hexachlorocyclopentadiene	3333	1995	59.9	10 - 110
Hexachloroethane	3333	2766	83.0	35 - 110
Indeno(1,2,3-cd)pyrene	3333	3246	97.4	40 - 120
Isophorone	3333	3001	90.0	45 - 110
1-Methylnaphthalene	3333	2886	86.6	30 - 110
2-Methylnaphthalene	3333	3134	94.0	40 - 110
2-Methylphenol	3313	2860	86.3	40 - 105
4-Methylphenol	3313	3068	92.6	40 - 105
Naphthalene	3333	2911	87.3	40 - 105
4-Nitroaniline	3333	2543	76.3	35 - 115
3-Nitroaniline	3333	2197	65.9	25 - 110
2-Nitroaniline	3333	3000	90.0	45 - 120
Nitrobenzene	3333	3201	96.0	40 - 115
4-Nitrophenol	3313	2881	87.0	15 - 140
2-Nitrophenol	3313	2635	79.5	40 - 110
N-Nitrosodiphenylamine	3333	2118	63.5	50 - 115
N-Nitroso-di-n-propylamine	**3333**	**3882**	**116**	**40 - 115**

LCS / LCS DUPLICATE RECOVERY

SW8270C

Laboratory:	Empirical Laboratories, LLC	SDG:	1109191
Client:	Tetra Tech NUS, Inc. (T010)	Project:	Navy Fuel Depot CTO JM46
Matrix:	Solid		
Batch:	1J03009	Laboratory ID:	1J03009-BS1
Preparation:	EXT_3546	Initial/Final:	15 g / 1 mL

ANALYTE	SPIKE ADDED (ug/Kg wet)	LCS CONCENTRATION (ug/Kg wet)	LCS % REC.	QC LIMITS REC.
Pentachlorophenol	3313	2907	87.7	25 - 120
Phenanthrene	3333	3049	91.5	50 - 110
Phenol	3313	2880	86.9	40 - 100
Pyrene	3333	3070	92.1	45 - 125
1,2,4,5-Tetrachlorobenzene	3333	3518	106	50 - 150
2,3,4,6-Tetrachlorophenol	3333	3013	90.4	50 - 125
2,4,6-Trichlorophenol	3313	2824	85.2	45 - 110
2,4,5-Trichlorophenol	3313	2755	83.2	50 - 110

MATRIX SPIKE / MATRIX SPIKE DUPLICATE RECOVERY

SW8270C

FLC-4-SS01-0624-092211

Laboratory: Empirical Laboratories, LLC

SDG: 1109191

Client: Tetra Tech NUS, Inc. (T010)

Project: Navy Fuel Depot CTO JM46

Matrix: Solid

Batch: 1J03009

% Solids: 96.12

Source Sample Name: **1109191-02**

ANALYTE	SPIKE ADDED (ug/Kg dry)	SAMPLE CONCENTRATION (ug/Kg dry)	MS CONCENTRATION (ug/Kg dry)	MS % REC.	Q	QC LIMITS REC.
Acenaphthene	3400	ND	2253	66.3		45 - 110
Acenaphthylene	3400	ND	2024	59.5		45 - 105
Acetophenone	3400	ND	2283	67.2		35 - 110
Anthracene	3400	ND	2242	66.0		55 - 105
Atrazine	3400	ND	2212	65.1		55 - 105
Benzaldehyde	3400	ND	1755	51.6		10 - 160
Benzo(a)anthracene	3400	ND	2294	67.5		50 - 110
Benzo(a)pyrene	3400	ND	2199	64.7		50 - 110
Benzo(b)fluoranthene	3400	ND	2561	75.3		45 - 115
Benzo(g,h,i)perylene	3400	ND	2132	62.7		40 - 125
Benzo(k)fluoranthene	3400	ND	2570	75.6		45 - 125
1,1-Biphenyl	3400	ND	2280	67.1		45 - 110
4-Bromophenyl-phenylether	3400	ND	2585	76.0		45 - 115
Butylbenzylphthalate	3400	ND	3026	89.0		50 - 125
Caprolactam	3400	ND	2307	67.8		50 - 110
Carbazole	3400	ND	1991	58.6		45 - 115
4-Chloro-3-methylphenol	3380	ND	2234	66.1		45 - 115
4-Chloroaniline	3400	ND	1443	42.5		10 - 95
Bis(2-chloroethoxy)methane	3400	ND	2372	69.8		45 - 110
Bis(2-chloroethyl)ether	3400	ND	2209	65.0		40 - 105
2,2'-Oxybis-1-chloropropane	3400	ND	1957	57.6		20 - 115
2-Chloronaphthalene	3400	ND	2412	70.9		45 - 105
2-Chlorophenol	3380	ND	1890	55.9		45 - 105
4-Chlorophenyl phenyl ether	3400	ND	2623	77.2		45 - 110
Chrysene	3400	ND	2409	70.9		55 - 110
Dibenz(a,h)anthracene	3400	ND	2102	61.8		40 - 125
Dibenzofuran	3400	ND	2489	73.2		50 - 105
Di-n-butylphthalate	3400	ND	2370	69.7		55 - 110
3,3'-Dichlorobenzidine	3400	ND	1454	42.8		19 - 130
2,4-Dichlorophenol	3380	ND	2169	64.2		45 - 110
Diethylphthalate	3400	ND	2629	77.3		50 - 115
2,4-Dimethylphenol	3380	ND	2029	60.0		30 - 105

MATRIX SPIKE / MATRIX SPIKE DUPLICATE RECOVERY

SW8270C

FLC-4-SS01-0624-092211

Laboratory: Empirical Laboratories, LLC

SDG: 1109191

Client: Tetra Tech NUS, Inc. (T010)

Project: Navy Fuel Depot CTO JM46

Matrix: Solid

Batch: 1J03009

% Solids: 96.12

Source Sample Name: **1109191-02**

ANALYTE	SPIKE ADDED (ug/Kg dry)	SAMPLE CONCENTRATION (ug/Kg dry)	MS CONCENTRATION (ug/Kg dry)	MS % REC.	Q	QC LIMITS REC.
Dimethyl phthalate	3400	ND	2578	75.8		50 - 110
4,6-Dinitro-2-methylphenol	3380	ND	1834	54.3		30 - 135
2,4-Dinitrophenol	3380	ND	865.6	25.6		15 - 130
2,4-Dinitrotoluene	3400	ND	2411	70.9		50 - 115
2,6-Dinitrotoluene	3400	ND	2376	69.9		50 - 110
Di-n-octylphthalate	3400	ND	3884	114		40 - 130
Bis(2-ethylhexyl)phthalate	3400	ND	2926	86.1		45 - 125
Fluoranthene	3400	ND	2038	59.9		55 - 115
Fluorene	3400	ND	2353	69.2		50 - 110
Hexachlorobenzene	3400	ND	2336	68.7		45 - 120
Hexachlorobutadiene	3400	ND	3060	90.0		30 - 110
Hexachlorocyclopentadiene	3400	ND	1622	47.7		10 - 110
Hexachloroethane	3400	ND	2197	64.6		35 - 110
Indeno(1,2,3-cd)pyrene	3400	ND	2088	61.4		40 - 120
Isophorone	3400	ND	2168	63.8		45 - 110
1-Methylnaphthalene	3400	ND	2087	61.4		30 - 110
2-Methylnaphthalene	3400	ND	2310	67.9		40 - 110
2-Methylphenol	3380	ND	1891	56.0		40 - 105
4-Methylphenol	3380	ND	2001	59.2		40 - 105
Naphthalene	3400	ND	2304	67.8		40 - 105
4-Nitroaniline	3400	ND	1649	48.5		35 - 115
3-Nitroaniline	3400	ND	1613	47.5		25 - 110
2-Nitroaniline	3400	ND	2387	70.2		45 - 120
Nitrobenzene	3400	ND	2487	73.1		40 - 115
4-Nitrophenol	3380	ND	1901	56.2		15 - 140
2-Nitrophenol	3380	ND	2074	61.4		40 - 110
N-Nitrosodiphenylamine	3400	ND	1625	47.8	*	50 - 115
N-Nitroso-di-n-propylamine	3400	ND	2494	73.4		40 - 115
Pentachlorophenol	3380	ND	1655	49.0		25 - 120
Phenanthrene	3400	ND	2341	68.8		50 - 110
Phenol	3380	ND	2014	59.6		40 - 100
Pyrene	3400	ND	2915	85.8		45 - 125

MATRIX SPIKE / MATRIX SPIKE DUPLICATE RECOVERY

SW8270C

FLC-4-SS01-0624-092211

Laboratory: Empirical Laboratories, LLC

SDG: 1109191

Client: Tetra Tech NUS, Inc. (T010)

Project: Navy Fuel Depot CTO JM46

Matrix: Solid

Batch: 1J03009

% Solids: 96.12

Source Sample Name: **1109191-02**

ANALYTE	SPIKE ADDED (ug/Kg dry)	SAMPLE CONCENTRATION (ug/Kg dry)	MS CONCENTRATION (ug/Kg dry)	MS % REC.	Q	QC LIMITS REC.
1,2,4,5-Tetrachlorobenzene	3400	ND	2604	76.6		50 - 150
2,3,4,6-Tetrachlorophenol	3400	ND	2110	62.0		50 - 125
2,4,6-Trichlorophenol	3380	ND	2162	64.0		45 - 110
2,4,5-Trichlorophenol	3380	ND	2143	63.4		50 - 110

MATRIX SPIKE / MATRIX SPIKE DUPLICATE RECOVERY

SW8270C

FLC-4-SS01-0624-092211

Laboratory: Empirical Laboratories, LLC

SDG: 1109191

Client: Tetra Tech NUS, Inc. (T010)

Project: Navy Fuel Depot CTO JM46

Matrix: Solid

Batch: 1J03009

% Solids: 96.12

Source Sample Name: **1109191-02**

ANALYTE	SPIKE ADDED (ug/Kg dry)	MSD CONCENTRATION (ug/Kg dry)	MSD % REC. #	% RPD	Q	QC LIMITS RPD	QC LIMITS REC.
Acenaphthene	3400	2244	66.0	0.386		30	45 - 110
Acenaphthylene	3400	2089	61.5	3.18		30	45 - 105
Acetophenone	3400	2089	61.4	8.91		30	35 - 110
Anthracene	3400	2317	68.1	3.27		30	55 - 105
Atrazine	3400	2250	66.2	1.68		30	55 - 105
Benzaldehyde	3400	1737	51.1	1.02		30	10 - 160
Benzo(a)anthracene	3400	2367	69.6	3.15		30	50 - 110
Benzo(a)pyrene	3400	2256	66.4	2.59		30	50 - 110
Benzo(b)fluoranthene	3400	2606	76.6	1.74		30	45 - 115
Benzo(g,h,i)perylene	3400	1882	55.4	12.4		30	40 - 125
Benzo(k)fluoranthene	3400	2525	74.3	1.74		30	45 - 125
1,1-Biphenyl	3400	2335	68.7	2.40		30	45 - 110
4-Bromophenyl-phenylether	3400	2693	79.2	4.08		30	45 - 115
Butylbenzylphthalate	3400	2788	82.0	8.18		30	50 - 125
Caprolactam	3400	2003	58.9	14.1		30	50 - 110
Carbazole	3400	1989	58.5	0.140		30	45 - 115
4-Chloro-3-methylphenol	3380	2132	63.1	4.68		30	45 - 115
4-Chloroaniline	3400	1491	43.8	3.22		30	10 - 95
Bis(2-chloroethoxy)methane	3400	2350	69.1	0.917		30	45 - 110
Bis(2-chloroethyl)ether	3400	2214	65.1	0.217		30	40 - 105
2,2'-Oxybis-1-chloropropane	3400	1883	55.4	3.89		30	20 - 115
2-Chloronaphthalene	3400	2493	73.3	3.32		30	45 - 105
2-Chlorophenol	3380	1845	54.6	2.41		30	45 - 105
4-Chlorophenyl phenyl ether	3400	2526	74.3	3.79		30	45 - 110
Chrysene	3400	2427	71.4	0.734		30	55 - 110
Dibenz(a,h)anthracene	3400	1967	57.9	6.61		30	40 - 125
Dibenzofuran	3400	2470	72.6	0.781		30	50 - 105
Di-n-butylphthalate	3400	2448	72.0	3.22		30	55 - 110
3,3'-Dichlorobenzidine	3400	1724	50.7	17.0		30	19 - 130
2,4-Dichlorophenol	3380	2070	61.3	4.65		30	45 - 110
Diethylphthalate	3400	2628	77.3	0.0380		30	50 - 115
2,4-Dimethylphenol	3380	2083	61.6	2.67		30	30 - 105
Dimethyl phthalate	3400	2626	77.2	1.86		30	50 - 110

MATRIX SPIKE / MATRIX SPIKE DUPLICATE RECOVERY

SW8270C

FLC-4-SS01-0624-092211

Laboratory: Empirical Laboratories, LLC

SDG: 1109191

Client: Tetra Tech NUS, Inc. (T010)

Project: Navy Fuel Depot CTO JM46

Matrix: Solid

Batch: 1J03009

% Solids: 96.12

Source Sample Name: **1109191-02**

ANALYTE	SPIKE ADDED (ug/Kg dry)	MSD CONCENTRATION (ug/Kg dry)	MSD % REC. #	% RPD	Q	QC LIMITS RPD	QC LIMITS REC.
4,6-Dinitro-2-methylphenol	3380	1688	50.0	8.28		30	30 - 135
2,4-Dinitrophenol	3380	3400 U	0		*	30	15 - 130
2,4-Dinitrotoluene	3400	2368	69.7	1.79		30	50 - 115
2,6-Dinitrotoluene	3400	2349	69.1	1.12		30	50 - 110
Di-n-octylphthalate	3400	3361	98.9	14.4		30	40 - 130
Bis(2-ethylhexyl)phthalate	3400	2770	81.5	5.49		30	45 - 125
Fluoranthene	3400	2145	63.1	5.13		30	55 - 115
Fluorene	3400	2303	67.7	2.11		30	50 - 110
Hexachlorobenzene	3400	2526	74.3	7.80		30	45 - 120
Hexachlorobutadiene	3400	3190	93.8	4.19		30	30 - 110
Hexachlorocyclopentadiene	3400	1615	47.5	0.459		30	10 - 110
Hexachloroethane	3400	2181	64.2	0.704		30	35 - 110
Indeno(1,2,3-cd)pyrene	3400	1991	58.6	4.75		30	40 - 120
Isophorone	3400	2170	63.8	0.0731		30	45 - 110
1-Methylnaphthalene	3400	2091	61.5	0.220		30	30 - 110
2-Methylnaphthalene	3400	2255	66.3	2.41		30	40 - 110
2-Methylphenol	3380	1847	54.6	2.38		30	40 - 105
4-Methylphenol	3380	1877	55.5	6.41		30	40 - 105
Naphthalene	3400	2330	68.5	1.09		30	40 - 105
4-Nitroaniline	3400	1574	46.3	4.65		30	35 - 115
3-Nitroaniline	3400	1448	42.6	10.8		30	25 - 110
2-Nitroaniline	3400	2338	68.8	2.08		30	45 - 120
Nitrobenzene	3400	2567	75.5	3.16		30	40 - 115
4-Nitrophenol	3380	1820	53.8	4.36		30	15 - 140
2-Nitrophenol	3380	2071	61.3	0.143		30	40 - 110
N-Nitrosodiphenylamine	3400	1700	50.0	4.53		30	50 - 115
N-Nitroso-di-n-propylamine	3400	2304	67.8	7.93		30	40 - 115
Pentachlorophenol	3380	1682	49.8	1.62		30	25 - 120
Phenanthrene	3400	2421	71.2	3.37		30	50 - 110
Phenol	3380	1896	56.1	6.00		30	40 - 100
Pyrene	3400	2700	79.4	7.68		30	45 - 125
1,2,4,5-Tetrachlorobenzene	3400	2514	74.0	3.49		30	50 - 150
2,3,4,6-Tetrachlorophenol	3400	2039	60.0	3.42		30	50 - 125

MATRIX SPIKE / MATRIX SPIKE DUPLICATE RECOVERY

SW8270C

FLC-4-SS01-0624-092211

Laboratory:	Empirical Laboratories, LLC	SDG:	1109191
Client:	Tetra Tech NUS, Inc. (T010)	Project:	Navy Fuel Depot CTO JM46
Matrix:	Solid		
Batch:	1J03009		
% Solids:	96.12		

Source Sample Name: **1109191-02**

ANALYTE	SPIKE ADDED (ug/Kg dry)	MSD CONCENTRATION (ug/Kg dry)	MSD % REC. #	% RPD	Q	QC LIMITS RPD	QC LIMITS REC.
2,4,6-Trichlorophenol	3380	2283	67.5	5.44		30	45 - 110
2,4,5-Trichlorophenol	3380	2218	65.6	3.44		30	50 - 110

PREPARATION BATCH SUMMARY

SW8270C

Laboratory: Empirical Laboratories, LLC SDG: 1109191

Client: Tetra Tech NUS, Inc. (T010) Project: Navy Fuel Depot CTO JM46

Batch: 1I26926 Batch Matrix: Water Preparation: EXT_3510

SAMPLE NAME	LAB SAMPLE ID	DATE PREPARED	INITIAL VOL./WEIGHT	FINAL VOL.
FLC-4-RB01-092211	1109191-10	09/27/11 12:00	1,070.00	1.00
Blank	1I26926-BLK1	09/27/11 12:00	1,000.00	1.00
LCS	1I26926-BS1	09/27/11 12:00	1,000.00	1.00

PREPARATION BATCH SUMMARY

SW8270C

Laboratory: Empirical Laboratories, LLC SDG: 1109191

Client: Tetra Tech NUS, Inc. (T010) Project: Navy Fuel Depot CTO JM46

Batch: 1J03009 Batch Matrix: Solid Preparation: EXT_3546

SAMPLE NAME	LAB SAMPLE ID	DATE PREPARED	INITIAL VOL./WEIGHT	FINAL VOL.
FLC-4-SS01-0006-092211	1109191-01	10/04/11 11:00	15.00	1.00
FLC-4-SS01-0624-092211	1109191-02	10/04/11 11:00	15.20	1.00
FLC-4-SB01-0204-092211	1109191-03	10/04/11 11:00	15.00	1.00
FLC-4-SS02-0006-092211	1109191-04	10/04/11 11:00	15.10	1.00
FLC-4-SS02-0624-092211	1109191-05	10/04/11 11:00	15.60	1.00
FLC-4-SB02-0204-092211	1109191-06	10/04/11 11:00	15.70	1.00
Blank	1J03009-BLK1	10/04/11 11:00	15.00	1.00
LCS	1J03009-BS1	10/04/11 11:00	15.00	1.00
FLC-4-SS01-0624-092211	1J03009-MS1	10/04/11 11:00	15.30	1.00
FLC-4-SS01-0624-092211	1J03009-MSD1	10/04/11 11:00	15.30	1.00

MASS SPECTROMETER INSTRUMENT PERFORMANCE CHECK

SW8270C

Laboratory:	Empirical Laboratories, LLC	SDG:	1109191
Client:	Tetra Tech NUS, Inc. (T010)	Project:	Navy Fuel Depot CTO JM46
Lab File ID:	SEQ-TUN1.D	Injection Date:	04/29/11
Instrument ID:	MS-BNA3	Injection Time:	17:21
Sequence:	1E12203	Lab Sample ID:	1E12203-TUN1

m/z	ION ABUNDANCE CRITERIA	% RELATIVE ABUNDANCE	
51	30 - 60% of 198	47.3	PASS
68	Less than 2% of 69	0	PASS
69	Less than 200% of 198	52.7	PASS
70	Less than 2% of 69	0.492	PASS
127	40 - 60% of 198	54.6	PASS
197	Less than 1% of 198	0	PASS
198	Base peak, 100% relative abundance	100	PASS
199	5 - 9% of 198	6.87	PASS
275	10 - 30% of 198	22	PASS
365	1 - 200% of 198	2.1	PASS
441	0.001 - 100% of 443	77.8	PASS
442	40 - 200% of 198	47.4	PASS
443	17 - 23% of 442	19.2	PASS

MASS SPECTROMETER INSTRUMENT PERFORMANCE CHECK

SW8270C

Laboratory:	Empirical Laboratories, LLC	SDG:	1109191
Client:	Tetra Tech NUS, Inc. (T010)	Project:	Navy Fuel Depot CTO JM46
Lab File ID:	SEQ-TUN1.D	Injection Date:	04/30/11
Instrument ID:	MS-BNA3	Injection Time:	14:42
Sequence:	1E12203	Lab Sample ID:	1E12203-TUN2

m/z	ION ABUNDANCE CRITERIA	% RELATIVE ABUNDANCE	
51	30 - 60% of 198	52.2	PASS
68	Less than 2% of 69	0	PASS
69	Less than 200% of 198	55.8	PASS
70	Less than 2% of 69	0.42	PASS
127	40 - 60% of 198	56.8	PASS
197	Less than 1% of 198	0	PASS
198	Base peak, 100% relative abundance	100	PASS
199	5 - 9% of 198	7.25	PASS
275	10 - 30% of 198	22.9	PASS
365	1 - 200% of 198	2.34	PASS
441	0.001 - 100% of 443	74.4	PASS
442	40 - 200% of 198	46.4	PASS
443	17 - 23% of 442	20.9	PASS

MASS SPECTROMETER INSTRUMENT PERFORMANCE CHECK

SW8270C

Laboratory:	Empirical Laboratories, LLC	SDG:	1109191
Client:	Tetra Tech NUS, Inc. (T010)	Project:	Navy Fuel Depot CTO JM46
Lab File ID:	SEQ-TUN1.D	Injection Date:	05/02/11
Instrument ID:	MS-BNA3	Injection Time:	13:51
Sequence:	1E12203	Lab Sample ID:	1E12203-TUN3

m/z	ION ABUNDANCE CRITERIA	% RELATIVE ABUNDANCE	
51	30 - 60% of 198	52.5	PASS
68	Less than 2% of 69	0	PASS
69	Less than 200% of 198	58.2	PASS
70	Less than 2% of 69	0.51	PASS
127	40 - 60% of 198	56.1	PASS
197	Less than 1% of 198	0	PASS
198	Base peak, 100% relative abundance	100	PASS
199	5 - 9% of 198	7.39	PASS
275	10 - 30% of 198	21.4	PASS
365	1 - 200% of 198	2.24	PASS
441	0.001 - 100% of 443	72.1	PASS
442	40 - 200% of 198	46.9	PASS
443	17 - 23% of 442	21.4	PASS

MASS SPECTROMETER INSTRUMENT PERFORMANCE CHECK

SW8270C

Laboratory:	Empirical Laboratories, LLC	SDG:	1109191
Client:	Tetra Tech NUS, Inc. (T010)	Project:	Navy Fuel Depot CTO JM46
Lab File ID:	SEQ-TUN1.D	Injection Date:	09/28/11
Instrument ID:	MS-BNA3	Injection Time:	13:10
Sequence:	1I27208	Lab Sample ID:	1I27208-TUN1

m/z	ION ABUNDANCE CRITERIA	% RELATIVE ABUNDANCE	
51	30 - 60% of 198	58.9	PASS
68	Less than 2% of 69	0	PASS
69	Less than 200% of 198	64.6	PASS
70	Less than 2% of 69	0.514	PASS
127	40 - 60% of 198	56.1	PASS
197	Less than 1% of 198	0	PASS
198	Base peak, 100% relative abundance	100	PASS
199	5 - 9% of 198	6.13	PASS
275	10 - 30% of 198	23	PASS
365	1 - 200% of 198	2.14	PASS
441	0.001 - 100% of 443	70.6	PASS
442	40 - 200% of 198	41.4	PASS
443	17 - 23% of 442	20.3	PASS

MASS SPECTROMETER INSTRUMENT PERFORMANCE CHECK

SW8270C

Laboratory:	Empirical Laboratories, LLC	SDG:	1109191
Client:	Tetra Tech NUS, Inc. (T010)	Project:	Navy Fuel Depot CTO JM46
Lab File ID:	SEQ-TUN2.D	Injection Date:	10/08/11
Instrument ID:	MS-BNA3	Injection Time:	05:26
Sequence:	1J28307	Lab Sample ID:	1J28307-TUN1

m/z	ION ABUNDANCE CRITERIA	% RELATIVE ABUNDANCE	
51	30 - 60% of 198	49.8	PASS
68	Less than 2% of 69	1.82	PASS
69	Less than 200% of 198	53.7	PASS
70	Less than 2% of 69	0.45	PASS
127	40 - 60% of 198	51.6	PASS
197	Less than 1% of 198	0	PASS
198	Base peak, 100% relative abundance	100	PASS
199	5 - 9% of 198	6.38	PASS
275	10 - 30% of 198	23.4	PASS
365	1 - 200% of 198	2.48	PASS
441	0.001 - 100% of 443	81	PASS
442	40 - 200% of 198	43.5	PASS
443	17 - 23% of 442	18.4	PASS

MASS SPECTROMETER INSTRUMENT PERFORMANCE CHECK

SW8270C

Laboratory:	Empirical Laboratories, LLC	SDG:	1109191
Client:	Tetra Tech NUS, Inc. (T010)	Project:	Navy Fuel Depot CTO JM46
Lab File ID:	SEQ-TUN1.D	Injection Date:	10/14/11
Instrument ID:	MS-BNA3	Injection Time:	16:15
Sequence:	1J29003	Lab Sample ID:	1J29003-TUN1

m/z	ION ABUNDANCE CRITERIA	% RELATIVE ABUNDANCE	
51	30 - 60% of 198	52.7	PASS
68	Less than 2% of 69	0	PASS
69	Less than 200% of 198	57.9	PASS
70	Less than 2% of 69	0.559	PASS
127	40 - 60% of 198	49.1	PASS
197	Less than 1% of 198	0.843	PASS
198	Base peak, 100% relative abundance	100	PASS
199	5 - 9% of 198	7.07	PASS
275	10 - 30% of 198	23.4	PASS
365	1 - 200% of 198	2.71	PASS
441	0.001 - 100% of 443	66.9	PASS
442	40 - 200% of 198	41	PASS
443	17 - 23% of 442	21.4	PASS

MASS SPECTROMETER INSTRUMENT PERFORMANCE CHECK

SW8270C

Laboratory:	Empirical Laboratories, LLC	SDG:	1109191
Client:	Tetra Tech NUS, Inc. (T010)	Project:	Navy Fuel Depot CTO JM46
Lab File ID:	SEQ-TUN1.D	Injection Date:	10/15/11
Instrument ID:	MS-BNA3	Injection Time:	13:06
Sequence:	1J29105	Lab Sample ID:	1J29105-TUN1

m/z	ION ABUNDANCE CRITERIA	% RELATIVE ABUNDANCE	
51	30 - 60% of 198	40.4	PASS
68	Less than 2% of 69	0	PASS
69	Less than 200% of 198	47.9	PASS
70	Less than 2% of 69	0.611	PASS
127	40 - 60% of 198	45.9	PASS
197	Less than 1% of 198	0	PASS
198	Base peak, 100% relative abundance	100	PASS
199	5 - 9% of 198	6.4	PASS
275	10 - 30% of 198	24.4	PASS
365	1 - 200% of 198	2.75	PASS
441	0.001 - 100% of 443	77.8	PASS
442	40 - 200% of 198	58	PASS
443	17 - 23% of 442	19.7	PASS

ANALYSIS SEQUENCE SUMMARY

SW8270C

Laboratory:	Empirical Laboratories, LLC	SDG:	1109191
Client:	Tetra Tech NUS, Inc. (T010)	Project:	Navy Fuel Depot CTO JM46
Sequence:	1E12203	Instrument:	MS-BNA3
Calibration:	1236001		

Sample Name	Lab Sample ID	Lab File ID	Analysis Date/Time
MS Tune	1E12203-TUN1	SEQ-TUN1.D	04/29/11 17:21
Cal Standard	1E12203-CAL1	SEQ-CAL1.D	04/29/11 17:45
Cal Standard	1E12203-CAL2	SEQ-CAL2.D	04/29/11 18:19
Cal Standard	1E12203-CAL3	SEQ-CAL3.D	04/29/11 18:52
Cal Standard	1E12203-CAL4	SEQ-CAL4.D	04/29/11 19:25
Cal Standard	1E12203-CAL5	SEQ-CAL5.D	04/29/11 19:58
Cal Standard	1E12203-CAL6	SEQ-CAL6.D	04/29/11 20:31
Cal Standard	1E12203-CAL7	SEQ-CAL7.D	04/29/11 21:04
Cal Standard	1E12203-CAL8	SEQ-CAL8.D	04/29/11 21:37
Cal Standard	1E12203-CAL9	SEQ-CAL9.D	04/29/11 22:09
Cal Standard	1E12203-CALA	SEQ-CALA.D	04/29/11 22:42
Cal Standard	1E12203-CALB	SEQ-CALB.D	04/29/11 23:15
Cal Standard	1E12203-CALC	SEQ-CALC.D	04/29/11 23:47
Cal Standard	1E12203-CALD	SEQ-CALD.D	04/30/11 00:20
Cal Standard	1E12203-CALE	SEQ-CALE.D	04/30/11 00:53
Cal Standard	1E12203-CALF	SEQ-CALF.D	04/30/11 01:25
Cal Standard	1E12203-CALG	SEQ-CALG.D	04/30/11 01:58
MS Tune	1E12203-TUN2	SEQ-TUN1.D	04/30/11 14:42
Initial Cal Check	1E12203-ICV1	SEQ-ICV1.D	04/30/11 15:07
Initial Cal Check	1E12203-ICV2	SEQ-ICV2.D	04/30/11 15:40
Initial Cal Check	1E12203-ICV3	SEQ-ICV5.D	04/30/11 17:19
MS Tune	1E12203-TUN3	SEQ-TUN1.D	05/02/11 13:51
Initial Cal Check	1E12203-ICV4	SEQ-ICV4.D	05/02/11 14:16

ANALYSIS SEQUENCE SUMMARY

SW8270C

Laboratory:	Empirical Laboratories, LLC	SDG:	1109191
Client:	Tetra Tech NUS, Inc. (T010)	Project:	Navy Fuel Depot CTO JM46
Sequence:	1I27208	Instrument:	MS-BNA3
Calibration:	1236001		

Sample Name	Lab Sample ID	Lab File ID	Analysis Date/Time
MS Tune	1I27208-TUN1	SEQ-TUN1.D	09/28/11 13:10
Calibration Check	1I27208-CCV1	SEQ-CCV1.D	09/28/11 13:39
Blank	1I26926-BLK1	I26926B1.D	09/28/11 15:02
LCS	1I26926-BS1	I26926L1.D	09/28/11 15:43

ANALYSIS SEQUENCE SUMMARY

SW8270C

Laboratory:	Empirical Laboratories, LLC	SDG:	1109191
Client:	Tetra Tech NUS, Inc. (T010)	Project:	Navy Fuel Depot CTO JM46
Sequence:	1J28307	Instrument:	MS-BNA3
Calibration:	1236001		

Sample Name	Lab Sample ID	Lab File ID	Analysis Date/Time
MS Tune	1J28307-TUN1	SEQ-TUN2.D	10/08/11 05:26
Calibration Check	1J28307-CCV1	SEQ-CCV3.D	10/08/11 05:54
Calibration Check	1J28307-CCV2	SEQ-CCV4.D	10/08/11 06:33
FLC-4-RB01-092211	1109191-10	0919110.D	10/08/11 13:56

ANALYSIS SEQUENCE SUMMARY

SW8270C

Laboratory:	Empirical Laboratories, LLC	SDG:	1109191
Client:	Tetra Tech NUS, Inc. (T010)	Project:	Navy Fuel Depot CTO JM46
Sequence:	1J29003	Instrument:	MS-BNA3
Calibration:	1236001		

Sample Name	Lab Sample ID	Lab File ID	Analysis Date/Time
MS Tune	1J29003-TUN1	SEQ-TUN1.D	10/14/11 16:15
Calibration Check	1J29003-CCV1	SEQ-CCV1.D	10/14/11 16:44
Calibration Check	1J29003-CCV2	SEQ-CCV2.D	10/14/11 17:33
Blank	1J03009-BLK1	J03009B1.D	10/14/11 22:54
LCS	1J03009-BS1	J03009L1.D	10/14/11 23:34
FLC-4-SS01-0006-092211	1109191-01	0919101.D	10/15/11 01:33
FLC-4-SS01-0624-092211	1109191-02	0919102.D	10/15/11 02:12
FLC-4-SS02-0624-092211	1109191-05	0919105.D	10/15/11 03:32

ANALYSIS SEQUENCE SUMMARY

SW8270C

Laboratory:	Empirical Laboratories, LLC	SDG:	1109191
Client:	Tetra Tech NUS, Inc. (T010)	Project:	Navy Fuel Depot CTO JM46
Sequence:	1J29105	Instrument:	MS-BNA3
Calibration:	1236001		

Sample Name	Lab Sample ID	Lab File ID	Analysis Date/Time
MS Tune	1J29105-TUN1	SEQ-TUN1.D	10/15/11 13:06
Calibration Check	1J29105-CCV1	SEQ-CCV1.D	10/15/11 13:33
Calibration Check	1J29105-CCV2	SEQ-CCV2.D	10/15/11 14:13
FLC-4-SB01-0204-092211	1109191-03	0919103.D	10/15/11 14:52
FLC-4-SS01-0624-092211	1J03009-MS1	919102MS.D	10/15/11 18:11
FLC-4-SS01-0624-092211	1J03009-MSD1	919102MD.D	10/15/11 18:51
FLC-4-SB02-0204-092211	1109191-06	0919106.D	10/15/11 19:30
FLC-4-SS02-0006-092211	1109191-04	0919104D.D	10/15/11 20:10

INTERNAL STANDARD AREA AND RT SUMMARY
SW8270C

Laboratory:	Empirical Laboratories, LLC	SDG:	1109191
Client:	Tetra Tech NUS, Inc. (T010)	Project:	Navy Fuel Depot CTO JM46
Sequence:	1I27208	Instrument:	MS-BNA3
		Calibration:	1236001

Internal Standard	Response	RT	Reference Response	Reference RT	Area %	Area % Limits	RT Diff	RT Diff Limit	Q
Calibration Check (1I27208-CCV1)			Lab File ID: SEQ-CCV1.D			Analyzed: 09/28/11 13:39			
1,4-Dichlorobenzene-d4	361251	6.857	473419	6.389	76	50 - 200	0.4680	+/-0.50	
Naphthalene-d8	1401835	8.455	1697246	8.029	83	50 - 200	0.4260	+/-0.50	
Acenaphthene-d10	778032	10.677	970176	10.251	80	50 - 200	0.4260	+/-0.50	
Phenanthrene-d10	1377467	12.563	1609148	12.094	86	50 - 200	0.4690	+/-0.50	
Chrysene-d12	1420546	16.949	1722869	16.261	82	50 - 200	0.6880	+/-0.50	
Perylene-d12	1400031	19.844	1702026	19.012	82	50 - 200	0.8320	+/-0.50	
Blank (1I26926-BLK1)			Lab File ID: I26926B1.D			Analyzed: 09/28/11 15:02			
1,4-Dichlorobenzene-d4	400049	6.852	361251	6.857	111	50 - 200	-0.0050	+/-0.50	
Naphthalene-d8	1536056	8.444	1401835	8.455	110	50 - 200	-0.0110	+/-0.50	
Acenaphthene-d10	844556	10.666	778032	10.677	109	50 - 200	-0.0110	+/-0.50	
Phenanthrene-d10	1418789	12.552	1377467	12.563	103	50 - 200	-0.0110	+/-0.50	
Chrysene-d12	1467670	16.927	1420546	16.949	103	50 - 200	-0.0220	+/-0.50	
Perylene-d12	1478028	19.828	1400031	19.844	106	50 - 200	-0.0160	+/-0.50	
LCS (1I26926-BS1)			Lab File ID: I26926L1.D			Analyzed: 09/28/11 15:43			
1,4-Dichlorobenzene-d4	334548	6.852	361251	6.857	93	50 - 200	-0.0050	+/-0.50	
Naphthalene-d8	1285364	8.45	1401835	8.455	92	50 - 200	-0.0050	+/-0.50	
Acenaphthene-d10	726020	10.667	778032	10.677	93	50 - 200	-0.0100	+/-0.50	
Phenanthrene-d10	1236133	12.558	1377467	12.563	90	50 - 200	-0.0050	+/-0.50	
Chrysene-d12	1271142	16.938	1420546	16.949	89	50 - 200	-0.0110	+/-0.50	
Perylene-d12	1258619	19.828	1400031	19.844	90	50 - 200	-0.0160	+/-0.50	

INTERNAL STANDARD AREA AND RT SUMMARY
SW8270C

Laboratory:	Empirical Laboratories, LLC	SDG:	1109191
Client:	Tetra Tech NUS, Inc. (T010)	Project:	Navy Fuel Depot CTO JM46
Sequence:	1J28307	Instrument:	MS-BNA3
		Calibration:	1236001

Internal Standard	Response	RT	Reference Response	Reference RT	Area %	Area % Limits	RT Diff	RT Diff Limit	Q
Calibration Check (1J28307-CCV1)			Lab File ID: SEQ-CCV3.D			Analyzed: 10/08/11 05:54			
1,4-Dichlorobenzene-d4	609244	6.866	473419	6.389	129	50 - 200	0.4770	+/-0.50	
Naphthalene-d8	2064318	8.474	1697246	8.029	122	50 - 200	0.4450	+/-0.50	
Acenaphthene-d10	1231472	10.701	970176	10.251	127	50 - 200	0.4500	+/-0.50	
Phenanthrene-d10	2182072	12.603	1609148	12.094	136	50 - 200	0.5090	+/-0.50	
Chrysene-d12	2049425	17.016	1722869	16.261	119	50 - 200	0.7550	+/-0.50	
Perylene-d12	1729844	19.938	1702026	19.012	102	50 - 200	0.9260	+/-0.50	
Calibration Check (1J28307-CCV2)			Lab File ID: SEQ-CCV4.D			Analyzed: 10/08/11 06:33			
1,4-Dichlorobenzene-d4	440370	6.868	609244	6.866	72	50 - 200	0.0020	+/-0.50	
Naphthalene-d8	1531606	8.476	2064318	8.474	74	50 - 200	0.0020	+/-0.50	
Acenaphthene-d10	892896	10.704	1231472	10.701	73	50 - 200	0.0030	+/-0.50	
Phenanthrene-d10	1653763	12.6	2182072	12.603	76	50 - 200	-0.0030	+/-0.50	
Chrysene-d12	1485852	17.002	2049425	17.016	73	50 - 200	-0.0140	+/-0.50	
Perylene-d12	1268957	19.93	1729844	19.938	73	50 - 200	-0.0080	+/-0.50	
FLC-4-RB01-092211 (1109191-10)			Lab File ID: 0919110.D			Analyzed: 10/08/11 13:56			
1,4-Dichlorobenzene-d4	490073	6.853	609244	6.866	80	50 - 200	-0.0130	+/-0.50	
Naphthalene-d8	1707680	8.461	2064318	8.474	83	50 - 200	-0.0130	+/-0.50	
Acenaphthene-d10	1065743	10.688	1231472	10.701	87	50 - 200	-0.0130	+/-0.50	
Phenanthrene-d10	1938868	12.58	2182072	12.603	89	50 - 200	-0.0230	+/-0.50	
Chrysene-d12	1834864	16.971	2049425	17.016	90	50 - 200	-0.0450	+/-0.50	
Perylene-d12	1521252	19.893	1729844	19.938	88	50 - 200	-0.0450	+/-0.50	

INTERNAL STANDARD AREA AND RT SUMMARY
SW8270C

Laboratory:	Empirical Laboratories, LLC	SDG:	1109191
Client:	Tetra Tech NUS, Inc. (T010)	Project:	Navy Fuel Depot CTO JM46
Sequence:	1J29003	Instrument:	MS-BNA3
		Calibration:	1236001

Internal Standard	Response	RT	Reference Response	Reference RT	Area %	Area % Limits	RT Diff	RT Diff Limit	Q
Calibration Check (1J29003-CCV1)			Lab File ID: SEQ-CCV1.D			Analyzed: 10/14/11 16:44			
1,4-Dichlorobenzene-d4	265256	6.888	473419	6.389	56	50 - 200	0.4990	+/-0.50	
Naphthalene-d8	950793	8.501	1697246	8.029	56	50 - 200	0.4720	+/-0.50	
Acenaphthene-d10	582551	10.724	970176	10.251	60	50 - 200	0.4730	+/-0.50	
Phenanthrene-d10	1131465	12.615	1609148	12.094	70	50 - 200	0.5210	+/-0.50	
Chrysene-d12	1193915	17.006	1722869	16.261	69	50 - 200	0.7450	+/-0.50	
Perylene-d12	861490	19.918	1702026	19.012	51	50 - 200	0.9060	+/-0.50	
Calibration Check (1J29003-CCV2)			Lab File ID: SEQ-CCV2.D			Analyzed: 10/14/11 17:33			
1,4-Dichlorobenzene-d4	575955	6.877	265256	6.888	217	50 - 200	-0.0110	+/-0.50	*
Naphthalene-d8	2097668	8.491	950793	8.501	221	50 - 200	-0.0100	+/-0.50	*
Acenaphthene-d10	1317720	10.718	582551	10.724	226	50 - 200	-0.0060	+/-0.50	*
Phenanthrene-d10	2311777	12.609	1131465	12.615	204	50 - 200	-0.0060	+/-0.50	*
Chrysene-d12	2341577	17.001	1193915	17.006	196	50 - 200	-0.0050	+/-0.50	
Perylene-d12	1860068	19.907	861490	19.918	216	50 - 200	-0.0110	+/-0.50	*
Blank (1J03009-BLK1)			Lab File ID: J03009B1.D			Analyzed: 10/14/11 22:54			
1,4-Dichlorobenzene-d4	468231	6.877	265256	6.888	177	50 - 200	-0.0110	+/-0.50	
Naphthalene-d8	1735068	8.49	950793	8.501	182	50 - 200	-0.0110	+/-0.50	
Acenaphthene-d10	1144618	10.713	582551	10.724	196	50 - 200	-0.0110	+/-0.50	
Phenanthrene-d10	1986159	12.599	1131465	12.615	176	50 - 200	-0.0160	+/-0.50	
Chrysene-d12	2025339	16.99	1193915	17.006	170	50 - 200	-0.0160	+/-0.50	
Perylene-d12	1734214	19.901	861490	19.918	201	50 - 200	-0.0170	+/-0.50	*
LCS (1J03009-BS1)			Lab File ID: J03009L1.D			Analyzed: 10/14/11 23:34			
1,4-Dichlorobenzene-d4	344288	6.878	265256	6.888	130	50 - 200	-0.0100	+/-0.50	
Naphthalene-d8	1383306	8.491	950793	8.501	145	50 - 200	-0.0100	+/-0.50	
Acenaphthene-d10	974395	10.713	582551	10.724	167	50 - 200	-0.0110	+/-0.50	
Phenanthrene-d10	1769700	12.604	1131465	12.615	156	50 - 200	-0.0110	+/-0.50	
Chrysene-d12	1889930	16.996	1193915	17.006	158	50 - 200	-0.0100	+/-0.50	
Perylene-d12	1299412	19.896	861490	19.918	151	50 - 200	-0.0220	+/-0.50	
FLC-4-SS01-0006-092211 (1109191-01)			Lab File ID: 0919101.D			Analyzed: 10/15/11 01:33			
1,4-Dichlorobenzene-d4	230304	6.872	265256	6.888	87	50 - 200	-0.0160	+/-0.50	
Naphthalene-d8	981561	8.48	950793	8.501	103	50 - 200	-0.0210	+/-0.50	
Acenaphthene-d10	724048	10.708	582551	10.724	124	50 - 200	-0.0160	+/-0.50	
Phenanthrene-d10	1398926	12.594	1131465	12.615	124	50 - 200	-0.0210	+/-0.50	
Chrysene-d12	1202843	16.98	1193915	17.006	101	50 - 200	-0.0260	+/-0.50	
Perylene-d12	1087894	19.886	861490	19.918	126	50 - 200	-0.0320	+/-0.50	

INTERNAL STANDARD AREA AND RT SUMMARY
SW8270C

Laboratory:	Empirical Laboratories, LLC	SDG:	1109191
Client:	Tetra Tech NUS, Inc. (T010)	Project:	Navy Fuel Depot CTO JM46
Sequence:	1J29003	Instrument:	MS-BNA3
		Calibration:	1236001

Internal Standard	Response	RT	Reference Response	Reference RT	Area %	Area % Limits	RT Diff	RT Diff Limit	Q
FLC-4-SS01-0624-092211 (1109191-02)			Lab File ID: 0919102.D			Analyzed: 10/15/11 02:12			
1,4-Dichlorobenzene-d4	147132	6.877	265256	6.888	55	50 - 200	-0.0110	+/-0.50	
Naphthalene-d8	534222	8.485	950793	8.501	56	50 - 200	-0.0160	+/-0.50	
Acenaphthene-d10	358841	10.713	582551	10.724	62	50 - 200	-0.0110	+/-0.50	
Phenanthrene-d10	650860	12.599	1131465	12.615	58	50 - 200	-0.0160	+/-0.50	
Chrysene-d12	620367	16.985	1193915	17.006	52	50 - 200	-0.0210	+/-0.50	
Perylene-d12	606405	19.891	861490	19.918	70	50 - 200	-0.0270	+/-0.50	
FLC-4-SS02-0624-092211 (1109191-05)			Lab File ID: 0919105.D			Analyzed: 10/15/11 03:32			
1,4-Dichlorobenzene-d4	132803	6.882	265256	6.888	50	50 - 200	-0.0060	+/-0.50	
Naphthalene-d8	529101	8.49	950793	8.501	56	50 - 200	-0.0110	+/-0.50	
Acenaphthene-d10	375935	10.718	582551	10.724	65	50 - 200	-0.0060	+/-0.50	
Phenanthrene-d10	670551	12.604	1131465	12.615	59	50 - 200	-0.0110	+/-0.50	
Chrysene-d12	622337	16.99	1193915	17.006	52	50 - 200	-0.0160	+/-0.50	
Perylene-d12	588386	19.906	861490	19.918	68	50 - 200	-0.0120	+/-0.50	

INTERNAL STANDARD AREA AND RT SUMMARY
SW8270C

Laboratory:	Empirical Laboratories, LLC	SDG:	1109191
Client:	Tetra Tech NUS, Inc. (T010)	Project:	Navy Fuel Depot CTO JM46
Sequence:	1J29105	Instrument:	MS-BNA3
		Calibration:	1236001

Internal Standard	Response	RT	Reference Response	Reference RT	Area %	Area % Limits	RT Diff	RT Diff Limit	Q
Calibration Check (1J29105-CCV1)			Lab File ID: SEQ-CCV1.D			Analyzed: 10/15/11 13:33			
1,4-Dichlorobenzene-d4	468040	6.888	473419	6.389	99	50 - 200	0.4990	+/-0.50	
Naphthalene-d8	1588463	8.502	1697246	8.029	94	50 - 200	0.4730	+/-0.50	
Acenaphthene-d10	994575	10.735	970176	10.251	103	50 - 200	0.4840	+/-0.50	
Phenanthrene-d10	1899529	12.631	1609148	12.094	118	50 - 200	0.5370	+/-0.50	
Chrysene-d12	2054877	17.038	1722869	16.261	119	50 - 200	0.7770	+/-0.50	
Perylene-d12	1769477	19.955	1702026	19.012	104	50 - 200	0.9430	+/-0.50	
Calibration Check (1J29105-CCV2)			Lab File ID: SEQ-CCV2.D			Analyzed: 10/15/11 14:13			
1,4-Dichlorobenzene-d4	676438	6.888	468040	6.888	145	50 - 200	0.0000	+/-0.50	
Naphthalene-d8	2355191	8.506	1588463	8.502	148	50 - 200	0.0040	+/-0.50	
Acenaphthene-d10	1415554	10.739	994575	10.735	142	50 - 200	0.0040	+/-0.50	
Phenanthrene-d10	2307258	12.631	1899529	12.631	121	50 - 200	0.0000	+/-0.50	
Chrysene-d12	2134169	17.033	2054877	17.038	104	50 - 200	-0.0050	+/-0.50	
Perylene-d12	1574352	19.955	1769477	19.955	89	50 - 200	0.0000	+/-0.50	
FLC-4-SB01-0204-092211 (1109191-03)			Lab File ID: 0919103.D			Analyzed: 10/15/11 14:52			
1,4-Dichlorobenzene-d4	378895	6.889	468040	6.888	81	50 - 200	0.0010	+/-0.50	
Naphthalene-d8	1242665	8.503	1588463	8.502	78	50 - 200	0.0010	+/-0.50	
Acenaphthene-d10	756863	10.736	994575	10.735	76	50 - 200	0.0010	+/-0.50	
Phenanthrene-d10	1264115	12.627	1899529	12.631	67	50 - 200	-0.0040	+/-0.50	
Chrysene-d12	1157404	17.029	2054877	17.038	56	50 - 200	-0.0090	+/-0.50	
Perylene-d12	1019815	19.951	1769477	19.955	58	50 - 200	-0.0040	+/-0.50	
Matrix Spike (1J03009-MS1)			Lab File ID: 919102MS.D			Analyzed: 10/15/11 18:11			
1,4-Dichlorobenzene-d4	531907	6.888	468040	6.888	114	50 - 200	0.0000	+/-0.50	
Naphthalene-d8	1867513	8.507	1588463	8.502	118	50 - 200	0.0050	+/-0.50	
Acenaphthene-d10	1144088	10.735	994575	10.735	115	50 - 200	0.0000	+/-0.50	
Phenanthrene-d10	1976430	12.631	1899529	12.631	104	50 - 200	0.0000	+/-0.50	
Chrysene-d12	1463406	17.038	2054877	17.038	71	50 - 200	0.0000	+/-0.50	
Perylene-d12	900352	19.95	1769477	19.955	51	50 - 200	-0.0050	+/-0.50	
Matrix Spike Dup (1J03009-MSD1)			Lab File ID: 919102MD.D			Analyzed: 10/15/11 18:51			
1,4-Dichlorobenzene-d4	276280	6.884	468040	6.888	59	50 - 200	-0.0040	+/-0.50	
Naphthalene-d8	912041	8.503	1588463	8.502	57	50 - 200	0.0010	+/-0.50	
Acenaphthene-d10	523917	10.73	994575	10.735	53	50 - 200	-0.0050	+/-0.50	
Phenanthrene-d10	856836	12.621	1899529	12.631	45	50 - 200	-0.0100	+/-0.50	*
Chrysene-d12	727651	17.023	2054877	17.038	35	50 - 200	-0.0150	+/-0.50	*
Perylene-d12	559470	19.946	1769477	19.955	32	50 - 200	-0.0090	+/-0.50	*

INTERNAL STANDARD AREA AND RT SUMMARY
SW8270C

Laboratory: Empirical Laboratories, LLC
SDG: 1109191
Client: Tetra Tech NUS, Inc. (T010)
Project: Navy Fuel Depot CTO JM46
Sequence: 1J29105
Instrument: MS-BNA3
Calibration: 1236001

Internal Standard	Response	RT	Reference Response	Reference RT	Area %	Area % Limits	RT Diff	RT Diff Limit	Q
FLC-4-SB02-0204-092211 (1109191-06)			Lab File ID: 0919106.D			Analyzed: 10/15/11 19:30			
1,4-Dichlorobenzene-d4	435835	6.889	468040	6.888	93	50 - 200	0.0010	+/-0.50	
Naphthalene-d8	1579830	8.502	1588463	8.502	99	50 - 200	0.0000	+/-0.50	
Acenaphthene-d10	1041684	10.735	994575	10.735	105	50 - 200	0.0000	+/-0.50	
Phenanthrene-d10	1798520	12.627	1899529	12.631	95	50 - 200	-0.0040	+/-0.50	
Chrysene-d12	1360589	17.034	2054877	17.038	66	50 - 200	-0.0040	+/-0.50	
Perylene-d12	889853	19.961	1769477	19.955	50	50 - 200	0.0060	+/-0.50	
FLC-4-SS02-0006-092211 (1109191-04)			Lab File ID: 0919104D.D			Analyzed: 10/15/11 20:10			
1,4-Dichlorobenzene-d4	502618	6.885	468040	6.888	107	50 - 200	-0.0030	+/-0.50	
Naphthalene-d8	1997075	8.504	1588463	8.502	126	50 - 200	0.0020	+/-0.50	
Acenaphthene-d10	1367673	10.737	994575	10.735	138	50 - 200	0.0020	+/-0.50	
Phenanthrene-d10	2601747	12.633	1899529	12.631	137	50 - 200	0.0020	+/-0.50	
Chrysene-d12	2150347	17.04	2054877	17.038	105	50 - 200	0.0020	+/-0.50	
Perylene-d12	1351416	19.968	1769477	19.955	76	50 - 200	0.0130	+/-0.50	

INITIAL CALIBRATION DATA

SW8270C

Laboratory:	Empirical Laboratories, LLC	SDG:	1109191
Client:	Tetra Tech NUS, Inc. (T010)	Project:	Navy Fuel Depot CTO JM46
Calibration:	1236001	Instrument:	MS-BNA3
Matrix:	Water	Calibration Dates:	4/29/11 17:45 4/30/11 1:58

Compound	Level 01		Level 02		Level 03		Level 04		Level 05		Level 06	
	ug/mL	RF	ug/mL	RF	ug/mL	RF	ug/mL	RF	ug/mL	RF	ug/mL	RF
Acenaphthene	5	1.200562	10	1.152068	20	1.149698	40	1.01509	50	1.06599	60	1.118857
Acenaphthylene	5	1.910563	10	1.856652	20	1.834023	40	1.577506	50	1.649651	60	1.70743
Acetophenone												
Aniline	5	2.209836	10	2.190225	20	2.226457	40	1.982043	50	1.974255	60	2.113941
Anthracene	5	1.235784	10	1.151973	20	1.14753	40	1.011014	50	1.041804	60	1.073498
Atrazine												
Benzaldehyde												
Benzidine												
Benzo(a)anthracene	5	1.168873	10	1.137636	20	1.197714	40	1.06755	50	1.06548	60	1.128806
Benzo(a)pyrene	5	1.036259	10	1.04972	20	1.089412	40	0.978414	50	1.01499	60	1.072439
Benzo(b)fluoranthene	5	1.078112	10	1.060484	20	1.153792	40	1.054294	50	1.040864	60	1.109427
Benzo(g,h,i)perylene	5	1.006605	10	1.027385	20	1.089672	40	0.9762424	50	0.9956835	60	1.072671
Benzoic acid	5	~~0.1631144~~	10	0.2066539	20	0.2735506	40	0.2647946	50	0.2615824	60	0.2878177
Benzo(k)fluoranthene	5	1.172096	10	1.160073	20	1.151865	40	1.001281	50	1.065575	60	1.126634
Benzyl alcohol	5	0.8617164	10	0.8673336	20	0.9412286	40	0.8081919	50	0.8346687	60	0.8710511
1,1-Biphenyl												
4-Bromophenyl-phenylether	5	0.2469079	10	0.2344633	20	0.2370065	40	0.2123191	50	0.2163411	60	0.2281563
Butylbenzylphthalate	5	0.5079049	10	0.5154742	20	0.5455854	40	0.4854733	50	0.5006547	60	0.5266863
Caprolactam												
Carbazole	5	1.169471	10	1.105756	20	1.083785	40	0.9685984	50	0.99038	60	1.035201
4-Chloro-3-methylphenol	5	0.3271885	10	0.3156005	20	0.3315254	40	0.2968659	50	0.2942781	60	0.3089769
4-Chloroaniline	5	0.4539724	10	0.4453658	20	0.4574864	40	0.3980506	50	0.4035257	60	0.4178277
Bis(2-chloroethoxy)methane	5	0.4611163	10	0.4509887	20	0.460769	40	0.4019166	50	0.4004393	60	0.4227313
Bis(2-chloroethyl)ether	5	1.398969	10	1.365362	20	1.373354	40	1.207943	50	1.239815	60	1.295529
2,2'-Oxybis-1-chloropropane	5	2.104681	10	2.038633	20	2.090222	40	1.80177	50	1.872962	60	1.941936
2-Chloronaphthalene	5	1.200232	10	1.154849	20	1.147531	40	0.9888028	50	1.039189	60	1.079545
2-Chlorophenol	5	1.387384	10	1.360711	20	1.391404	40	1.228533	50	1.258319	60	1.325553
4-Chlorophenyl phenyl ether	5	0.6722867	10	0.629193	20	0.6336897	40	0.5730243	50	0.5907893	60	0.627927
Chrysene	5	1.151174	10	1.091951	20	1.107031	40	0.961258	50	1.014375	60	1.04624
Dibenz(a,h)anthracene	5	0.946806	10	0.9506035	20	1.063357	40	0.9536154	50	0.9816955	60	1.050817
Dibenzofuran	5	1.690636	10	1.625618	20	1.605227	40	1.390488	50	1.466559	60	1.521719

INITIAL CALIBRATION DATA

SW8270C

Laboratory: Empirical Laboratories, LLC

SDG: 1109191

Client: Tetra Tech NUS, Inc. (T010)

Project: Navy Fuel Depot CTO JM46

Calibration: 1236001

Instrument: MS-BNA3

Matrix: Water

Calibration Dates: 4/29/11 17:45 4/30/11 1:58

Compound	Level 01		Level 02		Level 03		Level 04		Level 05		Level 06	
	ug/mL	RF	ug/mL	RF	ug/mL	RF	ug/mL	RF	ug/mL	RF	ug/mL	RF
Di-n-butylphthalate	5	1.291838	10	1.2633	20	1.265434	40	1.093081	50	1.140461	60	1.174317
1,4-Dichlorobenzene	5	1.568025	10	1.509793	20	1.523559	40	1.3491	50	1.379529	60	1.434977
1,3-Dichlorobenzene	5	1.574354	10	1.479601	20	1.519922	40	1.320874	50	1.355106	60	1.4173
1,2-Dichlorobenzene	5	1.465806	10	1.434433	20	1.426883	40	1.255848	50	1.293523	60	1.343582
3,3'-Dichlorobenzidine												
2,6-Dichlorophenol												
2,4-Dichlorophenol	5	0.3169391	10	0.3145317	20	0.322702	40	0.288284	50	0.289789	60	0.3069296
Diethylphthalate	5	1.32063	10	1.261619	20	1.254918	40	1.085716	50	1.152411	60	1.190047
2,4-Dimethylphenol	5	0.384137	10	0.3702076	20	0.3829536	40	0.3415762	50	0.3440076	60	0.3643064
Dimethyl phthalate	5	1.355168	10	1.307581	20	1.304618	40	1.153295	50	1.191277	60	1.235792
4,6-Dinitro-2-methylphenol	5	0.1210854	10	0.1305908	20	0.1540064	40	0.145401	50	0.1462314	60	0.1562021
2,4-Dinitrophenol	5	~~0.1243362~~	10	0.141284	20	0.1848834	40	0.1803434	50	0.1820099	60	0.2006313
2,4-Dinitrotoluene	5	0.3918149	10	0.3987171	20	0.4082577	40	0.3613843	50	0.3748928	60	0.3995306
2,6-Dinitrotoluene	5	0.3173778	10	0.3102615	20	0.3152494	40	0.2767322	50	0.2875841	60	0.301629
Di-n-octylphthalate	5	1.129653	10	1.174165	20	1.286397	40	1.152356	50	1.187184	60	1.252791
1,4-Dioxane												
1,2-Diphenylhydrazine	5	0.9395803	10	0.8941122	20	0.9022896	40	0.7910616	50	0.8117722	60	0.8483397
Bis(2-ethylhexyl)phthalate	5	0.6809116	10	0.696049	20	0.7240521	40	0.6392159	50	0.667684	60	0.6908073
Fluoranthene	5	1.315024	10	1.285888	20	1.299553	40	1.150257	50	1.178525	60	1.237456
Fluorene	5	1.427944	10	1.37776	20	1.393796	40	1.23256	50	1.283604	60	1.352245
2-Fluorobiphenyl	5	1.379787	10	1.332113	20	1.323566	40	1.162246	50	1.222403	60	1.258599
2-Fluorophenol	10	1.214211	20	1.184901	40	1.215741	80	1.07233	100	1.096515	120	1.1412
Hexachlorobenzene	5	0.2642514	10	0.2518966	20	0.252403	40	0.2278087	50	0.2304763	60	0.2443057
Hexachlorobutadiene	5	0.1958535	10	0.1924169	20	0.197703	40	0.1758159	50	0.1782144	60	0.1853061
Hexachlorocyclopentadiene	5	0.3479271	10	0.3459221	20	0.3868304	40	0.357985	50	0.3703015	60	0.3962932
Hexachloroethane	5	0.5846331	10	0.56404	20	0.5729063	40	0.5094484	50	0.5215084	60	0.5497472
Indeno(1,2,3-cd)pyrene	5	0.9329214	10	0.9621318	20	1.063819	40	1.008596	50	0.9848949	60	1.105305
Isophorone	5	0.7896668	10	0.7714455	20	0.7883782	40	0.7034726	50	0.7013249	60	0.7443144
1-Methylnaphthalene	5	0.6441305	10	0.6180163	20	0.6239926	40	0.54737	50	0.5549956	60	0.5772563
2-Methylnaphthalene	5	0.6435821	10	0.6278223	20	0.6404808	40	0.5564928	50	0.5627111	60	0.5897258
2-Methylphenol	5	1.260273	10	1.251825	20	1.277152	40	1.131961	50	1.167884	60	1.218514

INITIAL CALIBRATION DATA

SW8270C

Laboratory: Empirical Laboratories, LLC

SDG: 1109191

Client: Tetra Tech NUS, Inc. (T010)

Project: Navy Fuel Depot CTO JM46

Calibration: 1236001

Instrument: MS-BNA3

Matrix: Water

Calibration Dates: 4/29/11 17:45 4/30/11 1:58

Compound	Level 01		Level 02		Level 03		Level 04		Level 05		Level 06	
	ug/mL	RF	ug/mL	RF	ug/mL	RF	ug/mL	RF	ug/mL	RF	ug/mL	RF
3-Methylphenol	5	1.331706	10	1.290792	20	1.346713	40	1.190219	50	1.206537	60	1.281773
4-Methylphenol	5	1.331706	10	1.290792	20	1.346713	40	1.190219	50	1.206537	60	1.281773
3-Methylphenol/4-Methylphenol	5	1.331706	10	1.290792	20	1.346713	40	1.190219	50	1.206537	60	1.281773
Naphthalene	5	1.122107	10	1.071727	20	1.07583	40	0.9265709	50	0.94301	60	0.973957
4-Nitroaniline	5	0.3430184	10	0.3360742	20	0.3479662	40	0.3116399	50	0.3255681	60	0.3397148
3-Nitroaniline	5	0.3309603	10	0.3378271	20	0.3400208	40	0.3008812	50	0.3121726	60	0.3258531
2-Nitroaniline	5	0.3665605	10	0.3700264	20	0.3853216	40	0.3493317	50	0.3598085	60	0.3803924
Nitrobenzene	5	0.4362066	10	0.4207695	20	0.4376126	40	0.3908491	50	0.3913832	60	0.4109914
Nitrobenzene-d5	5	0.4225447	10	0.4166832	20	0.4326009	40	0.3896114	50	0.3855663	60	0.4106561
4-Nitrophenol	5	0.2297189	10	0.2494493	20	0.2828897	40	0.265577	50	0.2743758	60	0.2955233
2-Nitrophenol	5	0.1962052	10	0.1951651	20	0.2085142	40	0.1870232	50	0.1859271	60	0.198001
N-Nitrosodimethylamine	5	0.7020853	10	0.6974494	20	0.7179495	40	0.6502823	50	0.6591354	60	0.6915263
N-Nitrosodiphenylamine	5	0.7447467	10	0.702659	20	0.7022588	40	0.6229357	50	0.6399909	60	0.6681725
N-Nitroso-di-n-propylamine	5	1.084962	10	1.067234	20	1.095671	40	0.964017	50	0.9910933	60	1.042096
Pentachlorophenol	5	0.1466429	10	0.1458785	20	0.1722191	40	0.1555052	50	0.1599187	60	0.1729038
Phenanthrene	5	1.199467	10	1.144802	20	1.134825	40	0.990132	50	1.022705	60	1.064225
Phenol	5	1.763803	10	1.739868	20	1.780402	40	1.57708	50	1.605923	60	1.698477
Phenol-d6	10	1.662802	20	1.633678	40	1.679836	80	1.464852	100	1.513167	120	1.571116
Pyrene	5	1.262746	10	1.222088	20	1.241454	40	1.08272	50	1.115517	60	1.160478
Pyridine	5	1.508911	10	1.473681	20	1.566124	40	1.419584	50	1.429577	60	1.495931
Terphenyl-d14	5	0.7819621	10	0.7712491	20	0.7866966	40	0.6961461	50	0.7143354	60	0.7532491
1,2,4,5-Tetrachlorobenzene												
2,3,4,6-Tetrachlorophenol	5	0.3424646	10	0.3390161	20	0.3503973	40	0.3066535	50	0.3206907	60	0.3389603
2,4,6-Tribromophenol	10	0.1109002	20	0.1068303	40	0.1114174	80	0.1032482	100	0.1035542	120	0.1120766
1,2,4-Trichlorobenzene	5	0.3746386	10	0.3584824	20	0.362458	40	0.320971	50	0.3209222	60	0.3385883
2,4,6-Trichlorophenol	5	0.3830191	10	0.3817827	20	0.3990224	40	0.3592382	50	0.3644658	60	0.395434
2,4,5-Trichlorophenol	5	0.4211802	10	0.4132208	20	0.4400895	40	0.3862672	50	0.4032646	60	0.4189466
Acenaphthene	5	1.200562	10	1.152068	20	1.149698	40	1.01509	50	1.06599	60	1.118857
Acenaphthylene	5	1.910563	10	1.856652	20	1.834023	40	1.577506	50	1.649651	60	1.70743
Acetophenone												
Aniline	5	2.209836	10	2.190225	20	2.226457	40	1.982043	50	1.974255	60	2.113941

INITIAL CALIBRATION DATA

SW8270C

Laboratory: Empirical Laboratories, LLC

SDG: 1109191

Client: Tetra Tech NUS, Inc. (T010)

Project: Navy Fuel Depot CTO JM46

Calibration: 1236001

Instrument: MS-BNA3

Matrix: Water

Calibration Dates: 4/29/11 17:45 4/30/11 1:58

Compound	Level 01		Level 02		Level 03		Level 04		Level 05		Level 06	
	ug/mL	RF	ug/mL	RF	ug/mL	RF	ug/mL	RF	ug/mL	RF	ug/mL	RF
Anthracene	5	1.235784	10	1.151973	20	1.14753	40	1.011014	50	1.041804	60	1.073498
Atrazine												
Benzaldehyde												
Benzidine												
Benzo(a)anthracene	5	1.168873	10	1.137636	20	1.197714	40	1.06755	50	1.06548	60	1.128806
Benzo(a)pyrene	5	1.036259	10	1.04972	20	1.089412	40	0.978414	50	1.01499	60	1.072439
Benzo(b)fluoranthene	5	1.078112	10	1.060484	20	1.153792	40	1.054294	50	1.040864	60	1.109427
Benzo(g,h,i)perylene	5	1.006605	10	1.027385	20	1.089672	40	0.9762424	50	0.9956835	60	1.072671
Benzoic acid	5	~~0.1631144~~	10	0.2066539	20	0.2735506	40	0.2647946	50	0.2615824	60	0.2878177
Benzo(k)fluoranthene	5	1.172096	10	1.160073	20	1.151865	40	1.001281	50	1.065575	60	1.126634
Benzyl alcohol	5	0.8617164	10	0.8673336	20	0.9412286	40	0.8081919	50	0.8346687	60	0.8710511
1,1-Biphenyl												
4-Bromophenyl-phenylether	5	0.2469079	10	0.2344633	20	0.2370065	40	0.2123191	50	0.2163411	60	0.2281563
Butylbenzylphthalate	5	0.5079049	10	0.5154742	20	0.5455854	40	0.4854733	50	0.5006547	60	0.5266863
Caprolactam												
Carbazole	5	1.169471	10	1.105756	20	1.083785	40	0.9685984	50	0.99038	60	1.035201
4-Chloro-3-methylphenol	5	0.3271885	10	0.3156005	20	0.3315254	40	0.2968659	50	0.2942781	60	0.3089769
4-Chloroaniline	5	0.4539724	10	0.4453658	20	0.4574864	40	0.3980506	50	0.4035257	60	0.4178277
Bis(2-chloroethoxy)methane	5	0.4611163	10	0.4509887	20	0.460769	40	0.4019166	50	0.4004393	60	0.4227313
Bis(2-chloroethyl)ether	5	1.398969	10	1.365362	20	1.373354	40	1.207943	50	1.239815	60	1.295529
2,2'-Oxybis-1-chloropropane	5	2.104681	10	2.038633	20	2.090222	40	1.80177	50	1.872962	60	1.941936
2-Chloronaphthalene	5	1.200232	10	1.154849	20	1.147531	40	0.9888028	50	1.039189	60	1.079545
2-Chlorophenol	5	1.387384	10	1.360711	20	1.391404	40	1.228533	50	1.258319	60	1.325553
4-Chlorophenyl phenyl ether	5	0.6722867	10	0.629193	20	0.6336897	40	0.5730243	50	0.5907893	60	0.627927
Chrysene	5	1.151174	10	1.091951	20	1.107031	40	0.961258	50	1.014375	60	1.04624
Dibenz(a,h)anthracene	5	0.946806	10	0.9506035	20	1.063357	40	0.9536154	50	0.9816955	60	1.050817
Dibenzofuran	5	1.690636	10	1.625618	20	1.605227	40	1.390488	50	1.466559	60	1.521719
Di-n-butylphthalate	5	1.291838	10	1.2633	20	1.265434	40	1.093081	50	1.140461	60	1.174317
1,4-Dichlorobenzene	5	1.568025	10	1.509793	20	1.523559	40	1.3491	50	1.379529	60	1.434977
1,3-Dichlorobenzene	5	1.574354	10	1.479601	20	1.519922	40	1.320874	50	1.355106	60	1.4173
1,2-Dichlorobenzene	5	1.465806	10	1.434433	20	1.426883	40	1.255848	50	1.293523	60	1.343582

INITIAL CALIBRATION DATA

SW8270C

Laboratory: Empirical Laboratories, LLC

SDG: 1109191

Client: Tetra Tech NUS, Inc. (T010)

Project: Navy Fuel Depot CTO JM46

Calibration: 1236001

Instrument: MS-BNA3

Matrix: Water

Calibration Dates: 4/29/11 17:45 4/30/11 1:58

Compound	Level 01		Level 02		Level 03		Level 04		Level 05		Level 06	
	ug/mL	RF	ug/mL	RF	ug/mL	RF	ug/mL	RF	ug/mL	RF	ug/mL	RF
3,3'-Dichlorobenzidine												
2,6-Dichlorophenol												
2,4-Dichlorophenol	5	0.3169391	10	0.3145317	20	0.322702	40	0.288284	50	0.289789	60	0.3069296
Diethylphthalate	5	1.32063	10	1.261619	20	1.254918	40	1.085716	50	1.152411	60	1.190047
2,4-Dimethylphenol	5	0.384137	10	0.3702076	20	0.3829536	40	0.3415762	50	0.3440076	60	0.3643064
Dimethyl phthalate	5	1.355168	10	1.307581	20	1.304618	40	1.153295	50	1.191277	60	1.235792
4,6-Dinitro-2-methylphenol	5	0.1210854	10	0.1305908	20	0.1540064	40	0.145401	50	0.1462314	60	0.1562021
2,4-Dinitrophenol	5	~~0.1243362~~	10	0.141284	20	0.1848834	40	0.1803434	50	0.1820099	60	0.2006313
2,4-Dinitrotoluene	5	0.3918149	10	0.3987171	20	0.4082577	40	0.3613843	50	0.3748928	60	0.3995306
2,6-Dinitrotoluene	5	0.3173778	10	0.3102615	20	0.3152494	40	0.2767322	50	0.2875841	60	0.301629
Di-n-octylphthalate	5	1.129653	10	1.174165	20	1.286397	40	1.152356	50	1.187184	60	1.252791
1,4-Dioxane												
1,2-Diphenylhydrazine	5	0.9395803	10	0.8941122	20	0.9022896	40	0.7910616	50	0.8117722	60	0.8483397
Bis(2-ethylhexyl)phthalate	5	0.6809116	10	0.696049	20	0.7240521	40	0.6392159	50	0.667684	60	0.6908073
Fluoranthene	5	1.315024	10	1.285888	20	1.299553	40	1.150257	50	1.178525	60	1.237456
Fluorene	5	1.427944	10	1.37776	20	1.393796	40	1.23256	50	1.283604	60	1.352245
2-Fluorobiphenyl	5	1.379787	10	1.332113	20	1.323566	40	1.162246	50	1.222403	60	1.258599
2-Fluorophenol	10	1.214211	20	1.184901	40	1.215741	80	1.07233	100	1.096515	120	1.1412
Hexachlorobenzene	5	0.2642514	10	0.2518966	20	0.252403	40	0.2278087	50	0.2304763	60	0.2443057
Hexachlorobutadiene	5	0.1958535	10	0.1924169	20	0.197703	40	0.1758159	50	0.1782144	60	0.1853061
Hexachlorocyclopentadiene	5	0.3479271	10	0.3459221	20	0.3868304	40	0.357985	50	0.3703015	60	0.3962932
Hexachloroethane	5	0.5846331	10	0.56404	20	0.5729063	40	0.5094484	50	0.5215084	60	0.5497472
Indeno(1,2,3-cd)pyrene	5	0.9329214	10	0.9621318	20	1.063819	40	1.008596	50	0.9848949	60	1.105305
Isophorone	5	0.7896668	10	0.7714455	20	0.7883782	40	0.7034726	50	0.7013249	60	0.7443144
1-Methylnaphthalene	5	0.6441305	10	0.6180163	20	0.6239926	40	0.54737	50	0.5549956	60	0.5772563
2-Methylnaphthalene	5	0.6435821	10	0.6278223	20	0.6404808	40	0.5564928	50	0.5627111	60	0.5897258
2-Methylphenol	5	1.260273	10	1.251825	20	1.277152	40	1.131961	50	1.167884	60	1.218514
3-Methylphenol	5	1.331706	10	1.290792	20	1.346713	40	1.190219	50	1.206537	60	1.281773
4-Methylphenol	5	1.331706	10	1.290792	20	1.346713	40	1.190219	50	1.206537	60	1.281773
3-Methylphenol/4-Methylphenol	5	1.331706	10	1.290792	20	1.346713	40	1.190219	50	1.206537	60	1.281773
Naphthalene	5	1.122107	10	1.071727	20	1.07583	40	0.9265709	50	0.94301	60	0.973957

INITIAL CALIBRATION DATA

SW8270C

Laboratory:	Empirical Laboratories, LLC	SDG:	1109191
Client:	Tetra Tech NUS, Inc. (T010)	Project:	Navy Fuel Depot CTO JM46
Calibration:	1236001	Instrument:	MS-BNA3
Matrix:	Water	Calibration Dates:	4/29/11 17:45 4/30/11 1:58

Compound	Level 01		Level 02		Level 03		Level 04		Level 05		Level 06	
	ug/mL	RF	ug/mL	RF	ug/mL	RF	ug/mL	RF	ug/mL	RF	ug/mL	RF
4-Nitroaniline	5	0.3430184	10	0.3360742	20	0.3479662	40	0.3116399	50	0.3255681	60	0.3397148
3-Nitroaniline	5	0.3309603	10	0.3378271	20	0.3400208	40	0.3008812	50	0.3121726	60	0.3258531
2-Nitroaniline	5	0.3665605	10	0.3700264	20	0.3853216	40	0.3493317	50	0.3598085	60	0.3803924
Nitrobenzene	5	0.4362066	10	0.4207695	20	0.4376126	40	0.3908491	50	0.3913832	60	0.4109914
Nitrobenzene-d5	5	0.4225447	10	0.4166832	20	0.4326009	40	0.3896114	50	0.3855663	60	0.4106561
4-Nitrophenol	5	0.2297189	10	0.2494493	20	0.2828897	40	0.265577	50	0.2743758	60	0.2955233
2-Nitrophenol	5	0.1962052	10	0.1951651	20	0.2085142	40	0.1870232	50	0.1859271	60	0.198001
N-Nitrosodimethylamine	5	0.7020853	10	0.6974494	20	0.7179495	40	0.6502823	50	0.6591354	60	0.6915263
N-Nitrosodiphenylamine	5	0.7447467	10	0.702659	20	0.7022588	40	0.6229357	50	0.6399909	60	0.6681725
N-Nitroso-di-n-propylamine	5	1.084962	10	1.067234	20	1.095671	40	0.964017	50	0.9910933	60	1.042096
Pentachlorophenol	5	0.1466429	10	0.1458785	20	0.1722191	40	0.1555052	50	0.1599187	60	0.1729038
Phenanthrene	5	1.199467	10	1.144802	20	1.134825	40	0.990132	50	1.022705	60	1.064225
Phenol	5	1.763803	10	1.739868	20	1.780402	40	1.57708	50	1.605923	60	1.698477
Phenol-d6	10	1.662802	20	1.633678	40	1.679836	80	1.464852	100	1.513167	120	1.571116
Pyrene	5	1.262746	10	1.222088	20	1.241454	40	1.08272	50	1.115517	60	1.160478
Pyridine	5	1.508911	10	1.473681	20	1.566124	40	1.419584	50	1.429577	60	1.495931
Terphenyl-d14	5	0.7819621	10	0.7712491	20	0.7866966	40	0.6961461	50	0.7143354	60	0.7532491
1,2,4,5-Tetrachlorobenzene												
2,3,4,6-Tetrachlorophenol	5	0.3424646	10	0.3390161	20	0.3503973	40	0.3066535	50	0.3206907	60	0.3389603
2,4,6-Tribromophenol	10	0.1109002	20	0.1068303	40	0.1114174	80	0.1032482	100	0.1035542	120	0.1120766
1,2,4-Trichlorobenzene	5	0.3746386	10	0.3584824	20	0.362458	40	0.320971	50	0.3209222	60	0.3385883
2,4,6-Trichlorophenol	5	0.3830191	10	0.3817827	20	0.3990224	40	0.3592382	50	0.3644658	60	0.395434
2,4,5-Trichlorophenol	5	0.4211802	10	0.4132208	20	0.4400895	40	0.3862672	50	0.4032646	60	0.4189466

INITIAL CALIBRATION DATA (Continued)

SW8270C

Laboratory:	Empirical Laboratories, LLC	SDG:	1109191
Client:	Tetra Tech NUS, Inc. (T010)	Project:	Navy Fuel Depot CTO JM46
Calibration:	1236001	Instrument:	MS-BNA3
Matrix:	Water	Calibration Dates:	4/29/11 17:45 4/30/11 1:58

Compound	Level 07		Level 08		Level 09		Level 10		Level 11		Level 12	
	ug/mL	RF	ug/mL	RF	ug/mL	RF	ug/mL	RF	ug/mL	RF	ug/mL	RF
Acenaphthene	80	1.070429	100	1.110154								
Acenaphthylene	80	1.618735	100	1.647107								
Acetophenone					5	1.880226	10	1.843684	20	1.726817	40	1.816985
Aniline	80	2.054588	100	2.043831								
Anthracene	80	1.035715	100	1.04405								
Atrazine					5	0.2382708	10	0.2429518	20	0.2278142	40	0.233576
Benzaldehyde					5	1.135886	10	1.104348	20	1.01959	40	1.026186
Benzidine					5	0.6324675	10	0.6598514	20	0.6461027	40	0.6640134
Benzo(a)anthracene	80	1.085495	100	1.102825								
Benzo(a)pyrene	80	1.043055	100	1.082603								
Benzo(b)fluoranthene	80	1.094292	100	1.158321								
Benzo(g,h,i)perylene	80	1.029641	100	1.06721								
Benzoic acid	80	0.2818719	100	0.2993054								
Benzo(k)fluoranthene	80	1.086366	100	1.097945								
Benzyl alcohol	80	0.8753887	100	0.8745454								
1,1-Biphenyl					5	1.527091	10	1.51435	20	1.38327	40	1.425931
4-Bromophenyl-phenylether	80	0.2212953	100	0.2313328								
Butylbenzylphthalate	80	0.506124	100	0.5159518								
Caprolactam					5	9.990739E-02	10	0.1104282	20	0.1119224	40	0.1178965
Carbazole	80	0.9981409	100	1.003717								
4-Chloro-3-methylphenol	80	0.3086181	100	0.3077652								
4-Chloroaniline	80	0.4023406	100	0.4016907								
Bis(2-chloroethoxy)methane	80	0.4085309	100	0.4094061								
Bis(2-chloroethyl)ether	80	1.257639	100	1.244128								
2,2'-Oxybis-1-chloropropane	80	1.890831	100	1.835877								
2-Chloronaphthalene	80	1.026935	100	1.065042								
2-Chlorophenol	80	1.285464	100	1.282664								
4-Chlorophenyl phenyl ether	80	0.6214753	100	0.6384061								
Chrysene	80	0.9983805	100	1.012507								
Dibenz(a,h)anthracene	80	1.023862	100	1.065065								
Dibenzofuran	80	1.474077	100	1.5066								

INITIAL CALIBRATION DATA (Continued)

SW8270C

Laboratory:	Empirical Laboratories, LLC	SDG:	1109191
Client:	Tetra Tech NUS, Inc. (T010)	Project:	Navy Fuel Depot CTO JM46
Calibration:	1236001	Instrument:	MS-BNA3
Matrix:	Water	Calibration Dates:	4/29/11 17:45 4/30/11 1:58

Compound	Level 07		Level 08		Level 09		Level 10		Level 11		Level 12	
	ug/mL	RF	ug/mL	RF	ug/mL	RF	ug/mL	RF	ug/mL	RF	ug/mL	RF
Di-n-butylphthalate	80	1.115859	100	1.111806								
1,4-Dichlorobenzene	80	1.392333	100	1.402334								
1,3-Dichlorobenzene	80	1.374133	100	1.380718								
1,2-Dichlorobenzene	80	1.303595	100	1.306451								
3,3'-Dichlorobenzidine					5	0.3885638	10	0.4002254	20	0.3955931	40	0.4201307
2,6-Dichlorophenol					5	0.2969206	10	0.3013649	20	0.291966	40	0.3082091
2,4-Dichlorophenol	80	0.2966112	100	0.3015958								
Diethylphthalate	80	1.134853	100	1.157654								
2,4-Dimethylphenol	80	0.3587442	100	0.3633549								
Dimethyl phthalate	80	1.185465	100	1.222328								
4,6-Dinitro-2-methylphenol	80	0.1522534	100	0.1575479								
2,4-Dinitrophenol	80	0.2006293	100	0.2082968								
2,4-Dinitrotoluene	80	0.395113	100	0.4141599								
2,6-Dinitrotoluene	80	0.2878134	100	0.2968419								
Di-n-octylphthalate	80	1.208455	100	1.243757								
1,4-Dioxane					5	0.562493	10	0.5588019	20	0.5235447	40	0.5233689
1,2-Diphenylhydrazine	80	0.801643	100	0.8168839								
Bis(2-ethylhexyl)phthalate	80	0.6617697	100	0.6739699								
Fluoranthene	80	1.192481	100	1.211512								
Fluorene	80	1.305665	100	1.326577								
2-Fluorobiphenyl	80	1.204291	100	1.24033								
2-Fluorophenol	160	1.101251	200	1.111221								
Hexachlorobenzene	80	0.2366873	100	0.2470671								
Hexachlorobutadiene	80	0.1811536	100	0.1883923								
Hexachlorocyclopentadiene	80	0.3839658	100	0.4105745								
Hexachloroethane	80	0.5306981	100	0.5387239								
Indeno(1,2,3-cd)pyrene	80	1.075263	100	1.17113								
Isophorone	80	0.7247781	100	0.73083								
1-Methylnaphthalene	80	0.5632671	100	0.5691244								
2-Methylnaphthalene	80	0.577124	100	0.5814146								
2-Methylphenol	80	1.186174	100	1.175301								

INITIAL CALIBRATION DATA (Continued)

SW8270C

Laboratory:	Empirical Laboratories, LLC	SDG:	1109191
Client:	Tetra Tech NUS, Inc. (T010)	Project:	Navy Fuel Depot CTO JM46
Calibration:	1236001	Instrument:	MS-BNA3
Matrix:	Water	Calibration Dates:	4/29/11 17:45 4/30/11 1:58

Compound	Level 07		Level 08		Level 09		Level 10		Level 11		Level 12	
	ug/mL	RF	ug/mL	RF	ug/mL	RF	ug/mL	RF	ug/mL	RF	ug/mL	RF
3-Methylphenol	80	1.25282	100	1.246708								
4-Methylphenol	80	1.25282	100	1.246708								
3-Methylphenol/4-Methylphenol	80	1.25282	100	1.246708								
Naphthalene	80	0.929288	100	0.9247047								
4-Nitroaniline	80	0.3041842	100	0.3101441								
3-Nitroaniline	80	0.3160066	100	0.3209305								
2-Nitroaniline	80	0.3679269	100	0.3808217								
Nitrobenzene	80	0.3959025	100	0.4026269								
Nitrobenzene-d5	80	0.3956873	100	0.4070452								
4-Nitrophenol	80	0.2875644	100	0.2922439								
2-Nitrophenol	80	0.1898848	100	0.1924385								
N-Nitrosodimethylamine	80	0.6770774	100	0.6814722								
N-Nitrosodiphenylamine	80	0.6421856	100	0.6601622								
N-Nitroso-di-n-propylamine	80	1.01735	100	1.009302								
Pentachlorophenol	80	0.1689527	100	0.1764541								
Phenanthrene	80	1.02087	100	1.029906								
Phenol	80	1.657873	100	1.678155								
Phenol-d6	160	1.528019	200	1.530415								
Pyrene	80	1.10517	100	1.119951								
Pyridine	80	1.469181	100	1.49947								
Terphenyl-d14	80	0.7229046	100	0.7432138								
1,2,4,5-Tetrachlorobenzene					5	0.3479122	10	0.3558868	20	0.3284806	40	0.3388667
2,3,4,6-Tetrachlorophenol	80	0.3293547	100	0.3450346								
2,4,6-Tribromophenol	160	0.1116489	200	0.1192761								
1,2,4-Trichlorobenzene	80	0.3260549	100	0.3352601								
2,4,6-Trichlorophenol	80	0.3790248	100	0.3940451								
2,4,5-Trichlorophenol	80	0.4068398	100	0.4243071								
Acenaphthene	80	1.070429	100	1.110154								
Acenaphthylene	80	1.618735	100	1.647107								
Acetophenone					5	1.880226	10	1.843684	20	1.726817	40	1.816985
Aniline	80	2.054588	100	2.043831								

INITIAL CALIBRATION DATA (Continued)

SW8270C

Laboratory:	Empirical Laboratories, LLC	SDG:	1109191
Client:	Tetra Tech NUS, Inc. (T010)	Project:	Navy Fuel Depot CTO JM46
Calibration:	1236001	Instrument:	MS-BNA3
Matrix:	Water	Calibration Dates:	4/29/11 17:45 4/30/11 1:58

Compound	Level 07		Level 08		Level 09		Level 10		Level 11		Level 12	
	ug/mL	RF	ug/mL	RF	ug/mL	RF	ug/mL	RF	ug/mL	RF	ug/mL	RF
Anthracene	80	1.035715	100	1.04405								
Atrazine					5	0.2382708	10	0.2429518	20	0.2278142	40	0.233576
Benzaldehyde					5	1.135886	10	1.104348	20	1.01959	40	1.026186
Benzidine					5	0.6324675	10	0.6598514	20	0.6461027	40	0.6640134
Benzo(a)anthracene	80	1.085495	100	1.102825								
Benzo(a)pyrene	80	1.043055	100	1.082603								
Benzo(b)fluoranthene	80	1.094292	100	1.158321								
Benzo(g,h,i)perylene	80	1.029641	100	1.06721								
Benzoic acid	80	0.2818719	100	0.2993054								
Benzo(k)fluoranthene	80	1.086366	100	1.097945								
Benzyl alcohol	80	0.8753887	100	0.8745454								
1,1-Biphenyl					5	1.527091	10	1.51435	20	1.38327	40	1.425931
4-Bromophenyl-phenylether	80	0.2212953	100	0.2313328								
Butylbenzylphthalate	80	0.506124	100	0.5159518								
Caprolactam					5	9.990739E-02	10	0.1104282	20	0.1119224	40	0.1178965
Carbazole	80	0.9981409	100	1.003717								
4-Chloro-3-methylphenol	80	0.3086181	100	0.3077652								
4-Chloroaniline	80	0.4023406	100	0.4016907								
Bis(2-chloroethoxy)methane	80	0.4085309	100	0.4094061								
Bis(2-chloroethyl)ether	80	1.257639	100	1.244128								
2,2'-Oxybis-1-chloropropane	80	1.890831	100	1.835877								
2-Chloronaphthalene	80	1.026935	100	1.065042								
2-Chlorophenol	80	1.285464	100	1.282664								
4-Chlorophenyl phenyl ether	80	0.6214753	100	0.6384061								
Chrysene	80	0.9983805	100	1.012507								
Dibenz(a,h)anthracene	80	1.023862	100	1.065065								
Dibenzofuran	80	1.474077	100	1.5066								
Di-n-butylphthalate	80	1.115859	100	1.111806								
1,4-Dichlorobenzene	80	1.392333	100	1.402334								
1,3-Dichlorobenzene	80	1.374133	100	1.380718								
1,2-Dichlorobenzene	80	1.303595	100	1.306451								

INITIAL CALIBRATION DATA (Continued)

SW8270C

Laboratory: Empirical Laboratories, LLC
SDG: 1109191
Client: Tetra Tech NUS, Inc. (T010)
Project: Navy Fuel Depot CTO JM46
Calibration: 1236001
Instrument: MS-BNA3
Matrix: Water
Calibration Dates: 4/29/11 17:45 4/30/11 1:58

Compound	Level 07		Level 08		Level 09		Level 10		Level 11		Level 12	
	ug/mL	RF	ug/mL	RF	ug/mL	RF	ug/mL	RF	ug/mL	RF	ug/mL	RF
3,3'-Dichlorobenzidine					5	0.3885638	10	0.4002254	20	0.3955931	40	0.4201307
2,6-Dichlorophenol					5	0.2969206	10	0.3013649	20	0.291966	40	0.3082091
2,4-Dichlorophenol	80	0.2966112	100	0.3015958								
Diethylphthalate	80	1.134853	100	1.157654								
2,4-Dimethylphenol	80	0.3587442	100	0.3633549								
Dimethyl phthalate	80	1.185465	100	1.222328								
4,6-Dinitro-2-methylphenol	80	0.1522534	100	0.1575479								
2,4-Dinitrophenol	80	0.2006293	100	0.2082968								
2,4-Dinitrotoluene	80	0.395113	100	0.4141599								
2,6-Dinitrotoluene	80	0.2878134	100	0.2968419								
Di-n-octylphthalate	80	1.208455	100	1.243757								
1,4-Dioxane					5	0.562493	10	0.5588019	20	0.5235447	40	0.5233689
1,2-Diphenylhydrazine	80	0.801643	100	0.8168839								
Bis(2-ethylhexyl)phthalate	80	0.6617697	100	0.6739699								
Fluoranthene	80	1.192481	100	1.211512								
Fluorene	80	1.305665	100	1.326577								
2-Fluorobiphenyl	80	1.204291	100	1.24033								
2-Fluorophenol	160	1.101251	200	1.111221								
Hexachlorobenzene	80	0.2366873	100	0.2470671								
Hexachlorobutadiene	80	0.1811536	100	0.1883923								
Hexachlorocyclopentadiene	80	0.3839658	100	0.4105745								
Hexachloroethane	80	0.5306981	100	0.5387239								
Indeno(1,2,3-cd)pyrene	80	1.075263	100	1.17113								
Isophorone	80	0.7247781	100	0.73083								
1-Methylnaphthalene	80	0.5632671	100	0.5691244								
2-Methylnaphthalene	80	0.577124	100	0.5814146								
2-Methylphenol	80	1.186174	100	1.175301								
3-Methylphenol	80	1.25282	100	1.246708								
4-Methylphenol	80	1.25282	100	1.246708								
3-Methylphenol/4-Methylphenol	80	1.25282	100	1.246708								
Naphthalene	80	0.929288	100	0.9247047								

INITIAL CALIBRATION DATA (Continued)

SW8270C

Laboratory:	Empirical Laboratories, LLC	SDG:	1109191
Client:	Tetra Tech NUS, Inc. (T010)	Project:	Navy Fuel Depot CTO JM46
Calibration:	1236001	Instrument:	MS-BNA3
Matrix:	Water	Calibration Dates:	4/29/11 17:45 4/30/11 1:58

Compound	Level 07		Level 08		Level 09		Level 10		Level 11		Level 12	
	ug/mL	RF	ug/mL	RF	ug/mL	RF	ug/mL	RF	ug/mL	RF	ug/mL	RF
4-Nitroaniline	80	0.3041842	100	0.3101441								
3-Nitroaniline	80	0.3160066	100	0.3209305								
2-Nitroaniline	80	0.3679269	100	0.3808217								
Nitrobenzene	80	0.3959025	100	0.4026269								
Nitrobenzene-d5	80	0.3956873	100	0.4070452								
4-Nitrophenol	80	0.2875644	100	0.2922439								
2-Nitrophenol	80	0.1898848	100	0.1924385								
N-Nitrosodimethylamine	80	0.6770774	100	0.6814722								
N-Nitrosodiphenylamine	80	0.6421856	100	0.6601622								
N-Nitroso-di-n-propylamine	80	1.01735	100	1.009302								
Pentachlorophenol	80	0.1689527	100	0.1764541								
Phenanthrene	80	1.02087	100	1.029906								
Phenol	80	1.657873	100	1.678155								
Phenol-d6	160	1.528019	200	1.530415								
Pyrene	80	1.10517	100	1.119951								
Pyridine	80	1.469181	100	1.49947								
Terphenyl-d14	80	0.7229046	100	0.7432138								
1,2,4,5-Tetrachlorobenzene					5	0.3479122	10	0.3558868	20	0.3284806	40	0.3388667
2,3,4,6-Tetrachlorophenol	80	0.3293547	100	0.3450346								
2,4,6-Tribromophenol	160	0.1116489	200	0.1192761								
1,2,4-Trichlorobenzene	80	0.3260549	100	0.3352601								
2,4,6-Trichlorophenol	80	0.3790248	100	0.3940451								
2,4,5-Trichlorophenol	80	0.4068398	100	0.4243071								

INITIAL CALIBRATION DATA (Continued)

SW8270C

Laboratory: Empirical Laboratories, LLC
SDG: 1109191
Client: Tetra Tech NUS, Inc. (T010)
Project: Navy Fuel Depot CTO JM46
Calibration: 1236001
Instrument: MS-BNA3
Matrix: Water
Calibration Dates: 4/29/11 17:45 4/30/11 1:58

Compound	Level 13		Level 14		Level 15		Level 16		Level 17		Level 18	
	ug/mL	RF	ug/mL	RF	ug/mL	RF	ug/mL	RF	ug/mL	RF	ug/mL	RF
Acenaphthene												
Acenaphthylene												
Acetophenone	50	1.789068	60	1.770735	80	1.812049	100	1.776326				
Aniline												
Anthracene												
Atrazine	50	0.2359177	60	0.2321698	80	0.234271	100	0.2307739				
Benzaldehyde	50	0.9817363	60	0.9635899	80	0.9526789	100	0.8968237				
Benzidine	50	0.6420753	60	0.6442256	80	0.6312912	100	0.6103486				
Benzo(a)anthracene												
Benzo(a)pyrene												
Benzo(b)fluoranthene												
Benzo(g,h,i)perylene												
Benzoic acid												
Benzo(k)fluoranthene												
Benzyl alcohol												
1,1-Biphenyl	50	1.43195	60	1.402475	80	1.465295	100	1.405265				
4-Bromophenyl-phenylether												
Butylbenzylphthalate												
Caprolactam	50	0.1144193	60	0.1176165	80	0.1139048	100	0.1166416				
Carbazole												
4-Chloro-3-methylphenol												
4-Chloroaniline												
Bis(2-chloroethoxy)methane												
Bis(2-chloroethyl)ether												
2,2'-Oxybis-1-chloropropane												
2-Chloronaphthalene												
2-Chlorophenol												
4-Chlorophenyl phenyl ether												
Chrysene												
Dibenz(a,h)anthracene												
Dibenzofuran												

INITIAL CALIBRATION DATA (Continued)

SW8270C

Laboratory: Empirical Laboratories, LLC
SDG: 1109191
Client: Tetra Tech NUS, Inc. (T010)
Project: Navy Fuel Depot CTO JM46
Calibration: 1236001
Instrument: MS-BNA3
Matrix: Water
Calibration Dates: 4/29/11 17:45 4/30/11 1:58

Compound	Level 13		Level 14		Level 15		Level 16		Level 17		Level 18	
	ug/mL	RF	ug/mL	RF	ug/mL	RF	ug/mL	RF	ug/mL	RF	ug/mL	RF
Di-n-butylphthalate												
1,4-Dichlorobenzene												
1,3-Dichlorobenzene												
1,2-Dichlorobenzene												
3,3'-Dichlorobenzidine	50	0.412504	60	0.4101254	80	0.4135013	100	0.4131389				
2,6-Dichlorophenol	50	0.2904992	60	0.3021215	80	0.2987647	100	0.297978				
2,4-Dichlorophenol												
Diethylphthalate												
2,4-Dimethylphenol												
Dimethyl phthalate												
4,6-Dinitro-2-methylphenol												
2,4-Dinitrophenol												
2,4-Dinitrotoluene												
2,6-Dinitrotoluene												
Di-n-octylphthalate												
1,4-Dioxane	50	0.5272408	60	0.5401001	80	0.5695672	100	0.5195493				
1,2-Diphenylhydrazine												
Bis(2-ethylhexyl)phthalate												
Fluoranthene												
Fluorene												
2-Fluorobiphenyl												
2-Fluorophenol												
Hexachlorobenzene												
Hexachlorobutadiene												
Hexachlorocyclopentadiene												
Hexachloroethane												
Indeno(1,2,3-cd)pyrene												
Isophorone												
1-Methylnaphthalene												
2-Methylnaphthalene												
2-Methylphenol												

INITIAL CALIBRATION DATA (Continued)

SW8270C

Laboratory:	Empirical Laboratories, LLC	SDG:	1109191
Client:	Tetra Tech NUS, Inc. (T010)	Project:	Navy Fuel Depot CTO JM46
Calibration:	1236001	Instrument:	MS-BNA3
Matrix:	Water	Calibration Dates:	4/29/11 17:45 4/30/11 1:58

Compound	Level 13		Level 14		Level 15		Level 16		Level 17		Level 18	
	ug/mL	RF	ug/mL	RF	ug/mL	RF	ug/mL	RF	ug/mL	RF	ug/mL	RF
3-Methylphenol												
4-Methylphenol												
3-Methylphenol/4-Methylphenol												
Naphthalene												
4-Nitroaniline												
3-Nitroaniline												
2-Nitroaniline												
Nitrobenzene												
Nitrobenzene-d5												
4-Nitrophenol												
2-Nitrophenol												
N-Nitrosodimethylamine												
N-Nitrosodiphenylamine												
N-Nitroso-di-n-propylamine												
Pentachlorophenol												
Phenanthrene												
Phenol												
Phenol-d6												
Pyrene												
Pyridine												
Terphenyl-d14												
1,2,4,5-Tetrachlorobenzene	50	0.3278198	60	0.3307788	80	0.3290598	100	0.3234578				
2,3,4,6-Tetrachlorophenol												
2,4,6-Tribromophenol												
1,2,4-Trichlorobenzene												
2,4,6-Trichlorophenol												
2,4,5-Trichlorophenol												
Acenaphthene												
Acenaphthylene												
Acetophenone	50	1.789068	60	1.770735	80	1.812049	100	1.776326				
Aniline												

INITIAL CALIBRATION DATA (Continued)

SW8270C

Laboratory: Empirical Laboratories, LLC
SDG: 1109191
Client: Tetra Tech NUS, Inc. (T010)
Project: Navy Fuel Depot CTO JM46
Calibration: 1236001
Instrument: MS-BNA3
Matrix: Water
Calibration Dates: 4/29/11 17:45 4/30/11 1:58

Compound	Level 13		Level 14		Level 15		Level 16		Level 17		Level 18	
	ug/mL	RF	ug/mL	RF	ug/mL	RF	ug/mL	RF	ug/mL	RF	ug/mL	RF
Anthracene												
Atrazine	50	0.2359177	60	0.2321698	80	0.234271	100	0.2307739				
Benzaldehyde	50	0.9817363	60	0.9635899	80	0.9526789	100	0.8968237				
Benzidine	50	0.6420753	60	0.6442256	80	0.6312912	100	0.6103486				
Benzo(a)anthracene												
Benzo(a)pyrene												
Benzo(b)fluoranthene												
Benzo(g,h,i)perylene												
Benzoic acid												
Benzo(k)fluoranthene												
Benzyl alcohol												
1,1-Biphenyl	50	1.43195	60	1.402475	80	1.465295	100	1.405265				
4-Bromophenyl-phenylether												
Butylbenzylphthalate												
Caprolactam	50	0.1144193	60	0.1176165	80	0.1139048	100	0.1166416				
Carbazole												
4-Chloro-3-methylphenol												
4-Chloroaniline												
Bis(2-chloroethoxy)methane												
Bis(2-chloroethyl)ether												
2,2'-Oxybis-1-chloropropane												
2-Chloronaphthalene												
2-Chlorophenol												
4-Chlorophenyl phenyl ether												
Chrysene												
Dibenz(a,h)anthracene												
Dibenzofuran												
Di-n-butylphthalate												
1,4-Dichlorobenzene												
1,3-Dichlorobenzene												
1,2-Dichlorobenzene												

INITIAL CALIBRATION DATA (Continued)

SW8270C

Laboratory:	Empirical Laboratories, LLC	SDG:	1109191
Client:	Tetra Tech NUS, Inc. (T010)	Project:	Navy Fuel Depot CTO JM46
Calibration:	1236001	Instrument:	MS-BNA3
Matrix:	Water	Calibration Dates:	4/29/11 17:45 4/30/11 1:58

Compound	Level 13		Level 14		Level 15		Level 16		Level 17		Level 18	
	ug/mL	RF	ug/mL	RF	ug/mL	RF	ug/mL	RF	ug/mL	RF	ug/mL	RF
3,3'-Dichlorobenzidine	50	0.412504	60	0.4101254	80	0.4135013	100	0.4131389				
2,6-Dichlorophenol	50	0.2904992	60	0.3021215	80	0.2987647	100	0.297978				
2,4-Dichlorophenol												
Diethylphthalate												
2,4-Dimethylphenol												
Dimethyl phthalate												
4,6-Dinitro-2-methylphenol												
2,4-Dinitrophenol												
2,4-Dinitrotoluene												
2,6-Dinitrotoluene												
Di-n-octylphthalate												
1,4-Dioxane	50	0.5272408	60	0.5401001	80	0.5695672	100	0.5195493				
1,2-Diphenylhydrazine												
Bis(2-ethylhexyl)phthalate												
Fluoranthene												
Fluorene												
2-Fluorobiphenyl												
2-Fluorophenol												
Hexachlorobenzene												
Hexachlorobutadiene												
Hexachlorocyclopentadiene												
Hexachloroethane												
Indeno(1,2,3-cd)pyrene												
Isophorone												
1-Methylnaphthalene												
2-Methylnaphthalene												
2-Methylphenol												
3-Methylphenol												
4-Methylphenol												
3-Methylphenol/4-Methylphenol												
Naphthalene												

INITIAL CALIBRATION DATA (Continued)

SW8270C

Laboratory:	Empirical Laboratories, LLC	SDG:	1109191
Client:	Tetra Tech NUS, Inc. (T010)	Project:	Navy Fuel Depot CTO JM46
Calibration:	1236001	Instrument:	MS-BNA3
Matrix:	Water	Calibration Dates:	4/29/11 17:45 4/30/11 1:58

Compound	Level 13		Level 14		Level 15		Level 16		Level 17		Level 18	
	ug/mL	RF	ug/mL	RF	ug/mL	RF	ug/mL	RF	ug/mL	RF	ug/mL	RF
4-Nitroaniline												
3-Nitroaniline												
2-Nitroaniline												
Nitrobenzene												
Nitrobenzene-d5												
4-Nitrophenol												
2-Nitrophenol												
N-Nitrosodimethylamine												
N-Nitrosodiphenylamine												
N-Nitroso-di-n-propylamine												
Pentachlorophenol												
Phenanthrene												
Phenol												
Phenol-d6												
Pyrene												
Pyridine												
Terphenyl-d14												
1,2,4,5-Tetrachlorobenzene	50	0.3278198	60	0.3307788	80	0.3290598	100	0.3234578				
2,3,4,6-Tetrachlorophenol												
2,4,6-Tribromophenol												
1,2,4-Trichlorobenzene												
2,4,6-Trichlorophenol												
2,4,5-Trichlorophenol												

INITIAL CALIBRATION DATA (Continued)

SW8270C

Laboratory:	Empirical Laboratories, LLC	SDG:	1109191
Client:	Tetra Tech NUS, Inc. (T010)	Project:	Navy Fuel Depot CTO JM46
Calibration:	1236001	Instrument:	MS-BNA3
Matrix:	Water	Calibration Dates:	4/29/11 17:45 4/30/11 1:58

Compound	Mean RF	RF RSD	Mean RT	RT RSD	Linear r	Quad COD	LIMIT	Q
Acenaphthene	1.110356	5.288297	10.29162	9.343479E-02			CCC (30)	
Acenaphthylene	1.725208	7.224824	10.072	8.837624E-02			15	
Acetophenone	1.801986	2.623006	6.9	0.0512758			15	
Aniline	2.099397	4.808313	5.967	0.2001409			15	
Anthracene	1.092671	7.109126	12.18775	7.884876E-02			15	
Atrazine	0.2344682	1.991174	11.74575	4.943708E-02			15	
Benzaldehyde	1.010105	7.862294	5.825625	7.236361E-02			15	
Benzidine	0.641297	2.654446	13.97425	4.038824E-02			15	
Benzo(a)anthracene	1.119297	4.274256	16.23525	0.0816524			15	
Benzo(a)pyrene	1.045862	3.535372	18.9035	0.1146499			CCC (30)	
Benzo(b)fluoranthene	1.093698	4.048684	18.29662	0.1113231			15	
Benzo(g,h,i)perylene	1.033139	3.890508	21.8865	0.2082456			15	
Benzoic acid	0.2679395	11.20773	7.781571	0.6947302			15	
Benzo(k)fluoranthene	1.107729	5.157595	18.3555	0.1297645			15	
Benzyl alcohol	0.8667655	4.400766	6.566875	0.2166256			15	
1,1-Biphenyl	1.444453	3.67168	9.52625	3.810599E-02			15	
4-Bromophenyl-phenylether	0.2284778	5.008035	11.5395	7.035777E-02			15	
Butylbenzylphthalate	0.5129818	3.492853	15.25225	6.767508E-02			15	
Caprolactam	0.1128421	5.193073	8.55075	0.1563915			15	
Carbazole	1.044381	6.624112	12.39137	8.639464E-02			15	
4-Chloro-3-methylphenol	0.3113523	4.210752	8.736125	0.1038012			CCC (30)	
4-Chloroaniline	0.4225325	6.038149	8.122625	0.1175516			15	
Bis(2-chloroethoxy)methane	0.4269873	6.185734	7.725875	0.1308561			15	
Bis(2-chloroethyl)ether	1.297842	5.559542	6.0525	0.1902114			15	
2,2'-Oxybis-1-chloropropane	1.947114	6.010514	6.7435	0.131801			15	
2-Chloronaphthalene	1.087766	6.697976	9.5495	8.079271E-02			15	
2-Chlorophenol	1.315004	4.624341	6.11375	0.1645746			15	
4-Chlorophenyl phenyl ether	0.6233489	4.843106	10.93262	7.540016E-02			15	
Chrysene	1.047865	6.082994	16.30862	0.1078386			15	
Dibenz(a,h)anthracene	1.004478	5.185987	21.30563	0.1755433			15	
Dibenzofuran	1.535116	6.402871	10.50525	9.099792E-02			15	
Di-n-butylphthalate	1.182012	6.755142	12.86425	6.288496E-02			15	

INITIAL CALIBRATION DATA (Continued)

SW8270C

Laboratory:	Empirical Laboratories, LLC	SDG:	1109191
Client:	Tetra Tech NUS, Inc. (T010)	Project:	Navy Fuel Depot CTO JM46
Calibration:	1236001	Instrument:	MS-BNA3
Matrix:	Water	Calibration Dates:	4/29/11 17:45 4/30/11 1:58

Compound	Mean RF	RF RSD	Mean RT	RT RSD	Linear r	Quad COD	LIMIT	Q
1,4-Dichlorobenzene	1.444956	5.467	6.410625	0.1248613			CCC (30)	
1,3-Dichlorobenzene	1.427751	6.184247	6.312875	0.105711			15	
1,2-Dichlorobenzene	1.353765	5.754592	6.6015	9.658535E-02			15	
3,3'-Dichlorobenzidine	0.4067228	2.641037	16.20337	3.259867E-02			15	
2,6-Dichlorophenol	0.298478	1.900014	8.1265	4.341722E-02			15	
2,4-Dichlorophenol	0.3046728	4.192991	7.844125	0.1362117			CCC (30)	
Diethylphthalate	1.194731	6.529918	10.80025	0.1137489			15	
2,4-Dimethylphenol	0.3636609	4.326679	7.594375	0.1603634			15	
Dimethyl phthalate	1.24444	5.685732	9.930375	0.1671862			15	
4,6-Dinitro-2-methylphenol	0.1454148	8.990807	11.00038	0.1679983			15	
2,4-Dinitrophenol	0.1854397	12.00123	10.33129	0.1179144			SPCC (0.05)	
2,4-Dinitrotoluene	0.3929838	4.396053	10.49525	0.1523157			15	
2,6-Dinitrotoluene	0.2991862	4.878435	9.996875	0.1438581			15	
Di-n-octylphthalate	1.204345	4.453443	17.67838	7.317373E-02			CCC (30)	
1,4-Dioxane	0.5405832	3.738713	2.966125	0.8455495			15	
1,2-Diphenylhydrazine	0.8507103	6.449692	11.13088	9.327424E-02			15	
Bis(2-ethylhexyl)phthalate	0.6793074	3.73062	16.37963	6.115675E-02			15	
Fluoranthene	1.233837	4.928638	13.7625	9.359244E-02			CCC (30)	
Fluorene	1.337519	4.748592	10.932	9.604146E-02			15	
2-Fluorobiphenyl	1.265417	5.80845	9.402	7.848969E-02			15	
2-Fluorophenol	1.142171	4.910943	4.735625	0.2045971			15	
Hexachlorobenzene	0.244362	5.012161	11.60775	8.043427E-02			15	
Hexachlorobutadiene	0.186857	4.354208	8.211375	6.390464E-02			CCC (30)	
Hexachlorocyclopentadiene	0.3749749	6.237497	9.13225	6.029786E-02			SPCC (0.05)	
Hexachloroethane	0.5464632	4.780522	7.037625	8.255052E-02			15	
Indeno(1,2,3-cd)pyrene	1.038008	7.706288	21.23487	0.170273			15	
Isophorone	0.7442763	4.76768	7.447	0.2320769			15	
1-Methylnaphthalene	0.5872691	6.161856	9.060125	8.180225E-02			15	
2-Methylnaphthalene	0.5974192	5.83851	8.935875	7.367129E-02			15	
2-Methylphenol	1.208635	4.251053	6.698875	0.1714391			15	
3-Methylphenol	1.268409	4.36657	6.9085	0.2477057			15	
4-Methylphenol	1.268409	4.36657	6.9085	0.2477057			15	

INITIAL CALIBRATION DATA (Continued)

SW8270C

Laboratory:	Empirical Laboratories, LLC	SDG:	1109191
Client:	Tetra Tech NUS, Inc. (T010)	Project:	Navy Fuel Depot CTO JM46
Calibration:	1236001	Instrument:	MS-BNA3
Matrix:	Water	Calibration Dates:	4/29/11 17:45 4/30/11 1:58

Compound	Mean RF	RF RSD	Mean RT	RT RSD	Linear r	Quad COD	LIMIT	Q
3-Methylphenol/4-Methylphenol	1.268409	4.36657	6.9085	0.2477057			15	
Naphthalene	0.9958993	8.109498	8.05525	8.805836E-02			15	
4-Nitroaniline	0.3272887	5.141507	10.96663	0.2298598			15	
3-Nitroaniline	0.3230815	4.120651	10.20188	0.1592925			15	
2-Nitroaniline	0.3700237	3.241441	9.68	0.1125277			15	
Nitrobenzene	0.4107927	4.625764	7.1275	0.1614281			15	
Nitrobenzene-d5	0.4075494	4.033426	7.1015	0.150497			15	
4-Nitrophenol	0.2721678	8.409371	10.40112	0.1699928			SPCC (0.05)	
2-Nitrophenol	0.1941449	3.724196	7.534125	0.1204379			CCC (30)	
N-Nitrosodimethylamine	0.6846222	3.277093	3.268625	0.4561992			15	
N-Nitrosodiphenylamine	0.6728889	6.054145	11.08487	0.122818			CCC (30)	
N-Nitroso-di-n-propylamine	1.033966	4.50625	6.924	0.341437			SPCC (0.05)	
Pentachlorophenol	0.1623094	7.444734	11.84938	7.159059E-02			CCC (30)	
Phenanthrene	1.075866	6.933794	12.12375	8.032742E-02			15	
Phenol	1.687698	4.315264	5.922875	0.2981099			CCC (30)	
Phenol-d6	1.572986	4.940559	5.90625	0.2878739			15	
Pyrene	1.163766	5.943883	14.11538	0.0929633			15	
Pyridine	1.482807	3.139741	3.313875	0.4229696			15	
Terphenyl-d14	0.7462196	4.435465	14.37887	7.151091E-02			15	
1,2,4,5-Tetrachlorobenzene	0.3352828	3.377528	9.142125	3.575815E-02			15	
2,3,4,6-Tetrachlorophenol	0.3340715	4.320893	10.65287	9.534642E-02			15	
2,4,6-Tribromophenol	0.109869	4.778459	11.23037	0.1037614			15	
1,2,4-Trichlorobenzene	0.3421719	6.002622	7.953	8.322603E-02			15	
2,4,6-Trichlorophenol	0.382004	3.768651	9.2885	6.754752E-02			CCC (30)	
2,4,5-Trichlorophenol	0.4142645	3.869354	9.329125	9.747652E-02			15	
Acenaphthene	1.110356	5.288297	10.29162	9.343479E-02			CCC (30)	
Acenaphthylene	1.725208	7.224824	10.072	8.837624E-02			15	
Acetophenone	1.801986	2.623006	6.9	0.0512758			15	
Aniline	2.099397	4.808313	5.967	0.2001409			15	
Anthracene	1.092671	7.109126	12.18775	7.884876E-02			15	
Atrazine	0.2344682	1.991174	11.74575	4.943708E-02			15	
Benzaldehyde	1.010105	7.862294	5.825625	7.236361E-02			15	

INITIAL CALIBRATION DATA (Continued)

SW8270C

Laboratory:	Empirical Laboratories, LLC	SDG:	1109191
Client:	Tetra Tech NUS, Inc. (T010)	Project:	Navy Fuel Depot CTO JM46
Calibration:	1236001	Instrument:	MS-BNA3
Matrix:	Water	Calibration Dates:	4/29/11 17:45 4/30/11 1:58

Compound	Mean RF	RF RSD	Mean RT	RT RSD	Linear r	Quad COD	LIMIT	Q
Benzidine	0.641297	2.654446	13.97425	4.038824E-02			15	
Benzo(a)anthracene	1.119297	4.274256	16.23525	0.0816524			15	
Benzo(a)pyrene	1.045862	3.535372	18.9035	0.1146499			CCC (30)	
Benzo(b)fluoranthene	1.093698	4.048684	18.29662	0.1113231			15	
Benzo(g,h,i)perylene	1.033139	3.890508	21.8865	0.2082456			15	
Benzoic acid	0.2679395	11.20773	7.781571	0.6947302			15	
Benzo(k)fluoranthene	1.107729	5.157595	18.3555	0.1297645			15	
Benzyl alcohol	0.8667655	4.400766	6.566875	0.2166256			15	
1,1-Biphenyl	1.444453	3.67168	9.52625	3.810599E-02			15	
4-Bromophenyl-phenylether	0.2284778	5.008035	11.5395	7.035777E-02			15	
Butylbenzylphthalate	0.5129818	3.492853	15.25225	6.767508E-02			15	
Caprolactam	0.1128421	5.193073	8.55075	0.1563915			15	
Carbazole	1.044381	6.624112	12.39137	8.639464E-02			15	
4-Chloro-3-methylphenol	0.3113523	4.210752	8.736125	0.1038012			CCC (30)	
4-Chloroaniline	0.4225325	6.038149	8.122625	0.1175516			15	
Bis(2-chloroethoxy)methane	0.4269873	6.185734	7.725875	0.1308561			15	
Bis(2-chloroethyl)ether	1.297842	5.559542	6.0525	0.1902114			15	
2,2'-Oxybis-1-chloropropane	1.947114	6.010514	6.7435	0.131801			15	
2-Chloronaphthalene	1.087766	6.697976	9.5495	8.079271E-02			15	
2-Chlorophenol	1.315004	4.624341	6.11375	0.1645746			15	
4-Chlorophenyl phenyl ether	0.6233489	4.843106	10.93262	7.540016E-02			15	
Chrysene	1.047865	6.082994	16.30862	0.1078386			15	
Dibenz(a,h)anthracene	1.004478	5.185987	21.30563	0.1755433			15	
Dibenzofuran	1.535116	6.402871	10.50525	9.099792E-02			15	
Di-n-butylphthalate	1.182012	6.755142	12.86425	6.288496E-02			15	
1,4-Dichlorobenzene	1.444956	5.467	6.410625	0.1248613			CCC (30)	
1,3-Dichlorobenzene	1.427751	6.184247	6.312875	0.105711			15	
1,2-Dichlorobenzene	1.353765	5.754592	6.6015	9.658535E-02			15	
3,3'-Dichlorobenzidine	0.4067228	2.641037	16.20337	3.259867E-02			15	
2,6-Dichlorophenol	0.298478	1.900014	8.1265	4.341722E-02			15	
2,4-Dichlorophenol	0.3046728	4.192991	7.844125	0.1362117			CCC (30)	
Diethylphthalate	1.194731	6.529918	10.80025	0.1137489			15	

INITIAL CALIBRATION DATA (Continued)

SW8270C

Laboratory:	Empirical Laboratories, LLC	SDG:	1109191
Client:	Tetra Tech NUS, Inc. (T010)	Project:	Navy Fuel Depot CTO JM46
Calibration:	1236001	Instrument:	MS-BNA3
Matrix:	Water	Calibration Dates:	4/29/11 17:45 4/30/11 1:58

Compound	Mean RF	RF RSD	Mean RT	RT RSD	Linear r	Quad COD	LIMIT	Q
2,4-Dimethylphenol	0.3636609	4.326679	7.594375	0.1603634			15	
Dimethyl phthalate	1.24444	5.685732	9.930375	0.1671862			15	
4,6-Dinitro-2-methylphenol	0.1454148	8.990807	11.00038	0.1679983			15	
2,4-Dinitrophenol	0.1854397	12.00123	10.33129	0.1179144			SPCC (0.05)	
2,4-Dinitrotoluene	0.3929838	4.396053	10.49525	0.1523157			15	
2,6-Dinitrotoluene	0.2991862	4.878435	9.996875	0.1438581			15	
Di-n-octylphthalate	1.204345	4.453443	17.67838	7.317373E-02			CCC (30)	
1,4-Dioxane	0.5405832	3.738713	2.966125	0.8455495			15	
1,2-Diphenylhydrazine	0.8507103	6.449692	11.13088	9.327424E-02			15	
Bis(2-ethylhexyl)phthalate	0.6793074	3.73062	16.37963	6.115675E-02			15	
Fluoranthene	1.233837	4.928638	13.7625	9.359244E-02			CCC (30)	
Fluorene	1.337519	4.748592	10.932	9.604146E-02			15	
2-Fluorobiphenyl	1.265417	5.80845	9.402	7.848969E-02			15	
2-Fluorophenol	1.142171	4.910943	4.735625	0.2045971			15	
Hexachlorobenzene	0.244362	5.012161	11.60775	8.043427E-02			15	
Hexachlorobutadiene	0.186857	4.354208	8.211375	6.390464E-02			CCC (30)	
Hexachlorocyclopentadiene	0.3749749	6.237497	9.13225	6.029786E-02			SPCC (0.05)	
Hexachloroethane	0.5464632	4.780522	7.037625	8.255052E-02			15	
Indeno(1,2,3-cd)pyrene	1.038008	7.706288	21.23487	0.170273			15	
Isophorone	0.7442763	4.76768	7.447	0.2320769			15	
1-Methylnaphthalene	0.5872691	6.161856	9.060125	8.180225E-02			15	
2-Methylnaphthalene	0.5974192	5.83851	8.935875	7.367129E-02			15	
2-Methylphenol	1.208635	4.251053	6.698875	0.1714391			15	
3-Methylphenol	1.268409	4.36657	6.9085	0.2477057			15	
4-Methylphenol	1.268409	4.36657	6.9085	0.2477057			15	
3-Methylphenol/4-Methylphenol	1.268409	4.36657	6.9085	0.2477057			15	
Naphthalene	0.9958993	8.109498	8.05525	8.805836E-02			15	
4-Nitroaniline	0.3272887	5.141507	10.96663	0.2298598			15	
3-Nitroaniline	0.3230815	4.120651	10.20188	0.1592925			15	
2-Nitroaniline	0.3700237	3.241441	9.68	0.1125277			15	
Nitrobenzene	0.4107927	4.625764	7.1275	0.1614281			15	
Nitrobenzene-d5	0.4075494	4.033426	7.1015	0.150497			15	

INITIAL CALIBRATION DATA (Continued)

SW8270C

Laboratory:	Empirical Laboratories, LLC	SDG:	1109191
Client:	Tetra Tech NUS, Inc. (T010)	Project:	Navy Fuel Depot CTO JM46
Calibration:	1236001	Instrument:	MS-BNA3
Matrix:	Water	Calibration Dates:	4/29/11 17:45 4/30/11 1:58

Compound	Mean RF	RF RSD	Mean RT	RT RSD	Linear r	Quad COD	LIMIT	Q
4-Nitrophenol	0.2721678	8.409371	10.40112	0.1699928			SPCC (0.05)	
2-Nitrophenol	0.1941449	3.724196	7.534125	0.1204379			CCC (30)	
N-Nitrosodimethylamine	0.6846222	3.277093	3.268625	0.4561992			15	
N-Nitrosodiphenylamine	0.6728889	6.054145	11.08487	0.122818			CCC (30)	
N-Nitroso-di-n-propylamine	1.033966	4.50625	6.924	0.341437			SPCC (0.05)	
Pentachlorophenol	0.1623094	7.444734	11.84938	7.159059E-02			CCC (30)	
Phenanthrene	1.075866	6.933794	12.12375	8.032742E-02			15	
Phenol	1.687698	4.315264	5.922875	0.2981099			CCC (30)	
Phenol-d6	1.572986	4.940559	5.90625	0.2878739			15	
Pyrene	1.163766	5.943883	14.11538	0.0929633			15	
Pyridine	1.482807	3.139741	3.313875	0.4229696			15	
Terphenyl-d14	0.7462196	4.435465	14.37887	7.151091E-02			15	
1,2,4,5-Tetrachlorobenzene	0.3352828	3.377528	9.142125	3.575815E-02			15	
2,3,4,6-Tetrachlorophenol	0.3340715	4.320893	10.65287	9.534642E-02			15	
2,4,6-Tribromophenol	0.109869	4.778459	11.23037	0.1037614			15	
1,2,4-Trichlorobenzene	0.3421719	6.002622	7.953	8.322603E-02			15	
2,4,6-Trichlorophenol	0.382004	3.768651	9.2885	6.754752E-02			CCC (30)	
2,4,5-Trichlorophenol	0.4142645	3.869354	9.329125	9.747652E-02			15	

INITIAL CALIBRATION CHECK

SW8270C

Laboratory:	Empirical Laboratories, LLC	SDG:	1109191
Client:	Tetra Tech NUS, Inc. (T010)	Project:	Navy Fuel Depot CTO JM46
Instrument ID:	MS-BNA3	Calibration:	1236001
Lab File ID:	SEQ-ICV1.D	Calibration Date:	04/29/11 17:45
Sequence:	1E12203	Injection Date:	04/30/11
Lab Sample ID:	1E12203-ICV1	Injection Time:	15:07

		CONC. (ug/mL)		RESPONSE FACTOR			% DIFF / DRIFT	
COMPOUND	TYPE	STD	ICV	ICAL	ICV	MIN (#)	ICV	LIMIT (#)
Acenaphthene	A	50.00	50.99	1.110356	1.132237		2.0	20
Acenaphthylene	A	50.00	52.08	1.725208	1.796804		4.1	20
Anthracene	A	50.00	53.21	1.092671	1.162801		6.4	20
Benzo(a)anthracene	A	50.00	53.94	1.119297	1.207582		7.9	20
Benzo(a)pyrene	A	50.00	54.76	1.045862	1.145479		9.5	20
Benzo(b)fluoranthene	A	50.00	53.30	1.093698	1.165866		6.6	20
Benzo(g,h,i)perylene	A	50.00	55.29	1.033139	1.142352		10.6	20
Benzo(k)fluoranthene	A	50.00	54.50	1.107729	1.207431		9.0	20
4-Bromophenyl-phenylether	A	50.00	52.91	0.2284778	0.2417889		5.8	20
Butylbenzylphthalate	A	50.00	56.82	0.5129818	0.582953		13.6	20
Carbazole	A	50.00	51.29	1.044381	1.071248		2.6	20
4-Chloro-3-methylphenol	A	50.00	52.69	0.3113523	0.3281338		5.4	20
4-Chloroaniline	A	50.00	50.78	0.4225325	0.4291082		1.6	20
Bis(2-chloroethoxy)methane	A	50.00	54.60	0.4269873	0.4662333		9.2	20
Bis(2-chloroethyl)ether	A	50.00	52.57	1.297842	1.3646		5.1	20
2,2'-Oxybis-1-chloropropane	A	50.00	51.93	1.947114	2.022377		3.9	20
2-Chloronaphthalene	A	50.00	52.76	1.087766	1.147861		5.5	20
2-Chlorophenol	A	50.00	53.41	1.315004	1.404776		6.8	20
4-Chlorophenyl phenyl ether	A	50.00	51.82	0.6233489	0.6461009		3.6	20
Chrysene	A	50.00	53.37	1.047865	1.118417		6.7	20
Dibenz(a,h)anthracene	A	50.00	56.42	1.004478	1.133417		12.8	20
Dibenzofuran	A	50.00	53.17	1.535116	1.632439		6.3	20
Di-n-butylphthalate	A	50.00	52.16	1.182012	1.233187		4.3	20
2,4-Dichlorophenol	A	50.00	52.27	0.3046728	0.3185106		4.5	20
Diethylphthalate	A	50.00	52.18	1.194731	1.246888		4.4	20
2,4-Dimethylphenol	A	50.00	53.80	0.3636609	0.3913226		7.6	20
Dimethyl phthalate	A	50.00	52.08	1.24444	1.296196		4.2	20
2,4-Dinitrotoluene	A	50.00	52.99	0.3929838	0.4165004		6.0	20
2,6-Dinitrotoluene	A	50.00	53.60	0.2991862	0.3207071		7.2	20

INITIAL CALIBRATION CHECK

SW8270C

Laboratory:	Empirical Laboratories, LLC	SDG:	1109191
Client:	Tetra Tech NUS, Inc. (T010)	Project:	Navy Fuel Depot CTO JM46
Instrument ID:	MS-BNA3	Calibration:	1236001
Lab File ID:	SEQ-ICV1.D	Calibration Date:	04/29/11 17:45
Sequence:	1E12203	Injection Date:	04/30/11
Lab Sample ID:	1E12203-ICV1	Injection Time:	15:07

		CONC. (ug/mL)		RESPONSE FACTOR			% DIFF / DRIFT	
COMPOUND	TYPE	STD	ICV	ICAL	ICV	MIN (#)	ICV	LIMIT (#)
Di-n-octylphthalate	A	50.00	55.56	1.204345	1.338299		11.1	20
Bis(2-ethylhexyl)phthalate	A	50.00	54.80	0.6793074	0.7445394		9.6	20
Fluoranthene	A	50.00	52.70	1.233837	1.300481		5.4	20
Fluorene	A	50.00	52.74	1.337519	1.410746		5.5	20
Hexachlorobenzene	A	50.00	53.53	0.244362	0.2616019		7.1	20
Hexachlorobutadiene	A	50.00	56.62	0.186857	0.2116138		13.2	20
Hexachlorocyclopentadiene	A	50.00	50.51	0.3749749	0.3787812	0.05	1.0	20
Hexachloroethane	A	50.00	53.43	0.5464632	0.5839846		6.9	20
Indeno(1,2,3-cd)pyrene	A	50.00	55.78	1.038008	1.157962		11.6	20
Isophorone	A	50.00	51.26	0.7442763	0.7630284		2.5	20
1-Methylnaphthalene	A	50.00	50.47	0.5872691	0.5928174		0.9	20
2-Methylnaphthalene	A	50.00	52.21	0.5974192	0.6238767		4.4	20
2-Methylphenol	A	50.00	52.67	1.208635	1.273291		5.3	20
4-Methylphenol	A	50.00	51.20	1.268409	1.298786		2.4	20
Naphthalene	A	50.00	52.85	0.9958993	1.052611		5.7	20
4-Nitroaniline	A	50.00	53.01	0.3272887	0.3469818		6.0	20
3-Nitroaniline	A	50.00	53.20	0.3230815	0.3437513		6.4	20
2-Nitroaniline	A	50.00	53.86	0.3700237	0.3985975		7.7	20
Nitrobenzene	A	50.00	52.75	0.4107927	0.4333935		5.5	20
4-Nitrophenol	A	50.00	53.70	0.2721678	0.292285	0.05	7.4	20
2-Nitrophenol	A	50.00	53.57	0.1941449	0.2080171		7.1	20
N-Nitrosodiphenylamine	A	50.00	53.24	0.6728889	0.7164793		6.5	20
N-Nitroso-di-n-propylamine	A	50.00	54.25	1.033966	1.12186	0.05	8.5	20
Phenanthrene	A	50.00	53.38	1.075866	1.148675		6.8	20
Phenol	A	50.00	52.06	1.687698	1.757079		4.1	20
Pyrene	A	50.00	54.76	1.163766	1.274472		9.5	20
2,3,4,6-Tetrachlorophenol	A	50.00	50.18	0.3340715	0.3352563		0.4	20
2,4,6-Trichlorophenol	A	50.00	53.68	0.382004	0.4101383		7.4	20
2,4,5-Trichlorophenol	A	50.00	52.48	0.4142645	0.4348178		5.0	20

INITIAL CALIBRATION CHECK

SW8270C

Laboratory:	Empirical Laboratories, LLC	SDG:	1109191
Client:	Tetra Tech NUS, Inc. (T010)	Project:	Navy Fuel Depot CTO JM46
Instrument ID:	MS-BNA3	Calibration:	1236001
Lab File ID:	SEQ-ICV1.D	Calibration Date:	04/29/11 17:45
Sequence:	1E12203	Injection Date:	04/30/11
Lab Sample ID:	1E12203-ICV1	Injection Time:	15:07

		CONC. (ug/mL)		RESPONSE FACTOR			% DIFF / DRIFT	
COMPOUND	TYPE	STD	ICV	ICAL	ICV	MIN (#)	ICV	LIMIT (#)
2-Fluorobiphenyl	A	50.00	54.11	1.265417	1.369371		8.2	20
2-Fluorophenol	A	100.0	114.6	1.142171	1.308424		14.6	20
Nitrobenzene-d5	A	50.00	55.94	0.4075494	0.4559688		11.9	20
Terphenyl-d14	A	50.00	54.87	0.7462196	0.8189273		9.7	20
2,4,6-Tribromophenol	A	100.0	109.2	0.109869	0.1200227		9.2	20

Column to be used to flag Response Factor and %Diff/Drift values with an asterisk

* Values outside of QC limits

INITIAL CALIBRATION CHECK

SW8270C

Laboratory:	Empirical Laboratories, LLC	SDG:	1109191
Client:	Tetra Tech NUS, Inc. (T010)	Project:	Navy Fuel Depot CTO JM46
Instrument ID:	MS-BNA3	Calibration:	1236001
Lab File ID:	SEQ-ICV2.D	Calibration Date:	04/29/11 17:45
Sequence:	1E12203	Injection Date:	04/30/11
Lab Sample ID:	1E12203-ICV2	Injection Time:	15:40

		CONC. (ug/mL)		RESPONSE FACTOR			% DIFF / DRIFT	
COMPOUND	TYPE	STD	ICV	ICAL	ICV	MIN (#)	ICV	LIMIT (#)
Acetophenone	A	50.00	48.88	1.801986	1.761675		-2.2	20
Atrazine	A	50.00	50.39	0.2344682	0.2362964		0.8	20
Benzidine	A	50.00	49.05	0.641297	0.6290564		-1.9	20
1,1-Biphenyl	A	50.00	51.20	1.444453	1.479098		2.4	20
Caprolactam	A	50.00	56.58	0.1128421	0.1276823		13.2	20
3,3'-Dichlorobenzidine	A	50.00	52.77	0.4067228	0.4292329		5.5	20
1,4-Dioxane	A	50.00	48.83	0.5405832	0.5278882		-2.3	20
1,2,4,5-Tetrachlorobenzene	A	50.00	51.57	0.3352828	0.3457949		3.1	20

Column to be used to flag Response Factor and %Diff/Drift values with an asterisk

* Values outside of QC limits

INITIAL CALIBRATION CHECK

SW8270C

Laboratory:	Empirical Laboratories, LLC	SDG:	1109191
Client:	Tetra Tech NUS, Inc. (T010)	Project:	Navy Fuel Depot CTO JM46
Instrument ID:	MS-BNA3	Calibration:	1236001
Lab File ID:	SEQ-ICV5.D	Calibration Date:	04/29/11 17:45
Sequence:	1E12203	Injection Date:	04/30/11
Lab Sample ID:	1E12203-ICV3	Injection Time:	17:19

		CONC. (ug/mL)		RESPONSE FACTOR			% DIFF / DRIFT	
COMPOUND	TYPE	STD	ICV	ICAL	ICV	MIN (#)	ICV	LIMIT (#)
4,6-Dinitro-2-methylphenol	A	50.00	53.45	0.1454148	0.1554342		6.9	20
2,4-Dinitrophenol	A	50.00	61.89	0.1854397	0.2295477	0.05	23.8	20 *
Pentachlorophenol	A	50.00	56.14	0.1623094	0.1822508		12.3	20

Column to be used to flag Response Factor and %Diff/Drift values with an asterisk

* Values outside of QC limits

INITIAL CALIBRATION CHECK

SW8270C

Laboratory:	Empirical Laboratories, LLC	SDG:	1109191
Client:	Tetra Tech NUS, Inc. (T010)	Project:	Navy Fuel Depot CTO JM46
Instrument ID:	MS-BNA3	Calibration:	1236001
Lab File ID:	SEQ-ICV4.D	Calibration Date:	04/29/11 17:45
Sequence:	1E12203	Injection Date:	05/02/11
Lab Sample ID:	1E12203-ICV4	Injection Time:	14:16

		CONC. (ug/mL)		RESPONSE FACTOR			% DIFF / DRIFT	
COMPOUND	TYPE	STD	ICV	ICAL	ICV	MIN (#)	ICV	LIMIT (#)
Benzaldehyde	A	50.00	50.85	1.010105	1.027374		1.7	20

Column to be used to flag Response Factor and %Diff/Drift values with an asterisk

* Values outside of QC limits

CONTINUING CALIBRATION CHECK

SW8270C

Laboratory:	Empirical Laboratories, LLC	SDG:	1109191
Client:	Tetra Tech NUS, Inc. (T010)	Project:	Navy Fuel Depot CTO JM46
Instrument ID:	MS-BNA3	Calibration:	1236001
Lab File ID:	SEQ-CCV1.D	Calibration Date:	04/29/11 17:45
Sequence:	1I27208	Injection Date:	09/28/11
Lab Sample ID:	1I27208-CCV1	Injection Time:	13:39

		CONC. (ug/mL)		RESPONSE FACTOR			% DIFF / DRIFT	
COMPOUND	TYPE	STD	CCV	ICAL	CCV	MIN (#)	CCV	LIMIT (#)
Acetophenone	A	50.00	54.40	1.801986	1.960401		8.8	20
Atrazine	A	50.00	43.95	0.2344682	0.2060768		-12.1	20
Benzaldehyde	A	50.00	36.92	1.010105	0.7459301		-26.2	20 *
1,1-Biphenyl	A	50.00	49.48	1.444453	1.429472		-1.0	20
4-Bromophenyl-phenylether	A	50.00	47.16	0.2284778	0.2154987		-5.7	20
Butylbenzylphthalate	A	50.00	50.13	0.5129818	0.5143239		0.3	20
Caprolactam	A	50.00	41.84	0.1128421	9.441511E-02		-16.3	20
Carbazole	A	50.00	49.23	1.044381	1.028398		-1.5	20
4-Chloro-3-methylphenol	A	50.00	53.26	0.3113523	0.3316385		6.5	20
4-Chloroaniline	A	50.00	49.15	0.4225325	0.4153162		-1.7	20
Bis(2-chloroethoxy)methane	A	50.00	47.65	0.4269873	0.4068907		-4.7	20
Bis(2-chloroethyl)ether	A	50.00	53.53	1.297842	1.389554		7.1	20
2,2'-Oxybis-1-chloropropane	A	50.00	38.40	1.947114	1.495297		-23.2	20 *
2-Chloronaphthalene	A	50.00	54.02	1.087766	1.175303		8.0	20
2-Chlorophenol	A	50.00	55.66	1.315004	1.463807		11.3	20
4-Chlorophenyl phenyl ether	A	50.00	53.71	0.6233489	0.6695488		7.4	20
Dibenzofuran	A	50.00	50.53	1.535116	1.551335		1.1	20
Di-n-butylphthalate	A	50.00	49.16	1.182012	1.162099		-1.7	20
3,3'-Dichlorobenzidine	A	50.00	57.28	0.4067228	0.4659251		14.6	20
2,4-Dichlorophenol	A	50.00	46.95	0.3046728	0.2860651		-6.1	20
Diethylphthalate	A	50.00	51.15	1.194731	1.222242		2.3	20
2,4-Dimethylphenol	A	50.00	52.92	0.3636609	0.3849183		5.8	20
Dimethyl phthalate	A	50.00	50.36	1.24444	1.253305		0.7	20
4,6-Dinitro-2-methylphenol	A	50.00	55.67	0.1454148	0.1619134		11.3	20
2,4-Dinitrophenol	A	50.00	60.77	0.1854397	0.2253923	0.05	21.5	20 *
2,4-Dinitrotoluene	A	50.00	51.06	0.3929838	0.4012812		2.1	20
2,6-Dinitrotoluene	A	50.00	48.91	0.2991862	0.292682		-2.2	20
Di-n-octylphthalate	A	50.00	52.17	1.204345	1.256711		4.3	20
Bis(2-ethylhexyl)phthalate	A	50.00	51.60	0.6793074	0.7009778		3.2	20

CONTINUING CALIBRATION CHECK

SW8270C

Laboratory:	Empirical Laboratories, LLC	SDG:	1109191
Client:	Tetra Tech NUS, Inc. (T010)	Project:	Navy Fuel Depot CTO JM46
Instrument ID:	MS-BNA3	Calibration:	1236001
Lab File ID:	SEQ-CCV1.D	Calibration Date:	04/29/11 17:45
Sequence:	1I27208	Injection Date:	09/28/11
Lab Sample ID:	1I27208-CCV1	Injection Time:	13:39

		CONC. (ug/mL)		RESPONSE FACTOR			% DIFF / DRIFT	
COMPOUND	TYPE	STD	CCV	ICAL	CCV	MIN (#)	CCV	LIMIT (#)
Hexachlorobenzene	A	50.00	44.75	0.244362	0.2186901		-10.5	20
Hexachlorocyclopentadiene	A	50.00	49.73	0.3749749	0.3729811	0.05	-0.5	20
Hexachloroethane	A	50.00	52.49	0.5464632	0.5736754		5.0	20
Isophorone	A	50.00	34.01	0.7442763	0.5062941		-32.0	20 *
2-Methylphenol	A	50.00	57.18	1.208635	1.382179		14.4	20
4-Methylphenol	A	50.00	57.24	1.268409	1.452194		14.5	20
Naphthalene	A	50.00	51.73	0.9958993	1.030393		3.5	20
4-Nitroaniline	A	50.00	49.00	0.3272887	0.3207416		-2.0	20
3-Nitroaniline	A	50.00	51.30	0.3230815	0.3314969		2.6	20
2-Nitroaniline	A	50.00	62.90	0.3700237	0.465513		25.8	20 *
Nitrobenzene	A	50.00	49.44	0.4107927	0.4062053		-1.1	20
4-Nitrophenol	A	50.00	55.46	0.2721678	0.3018745	0.05	10.9	20
2-Nitrophenol	A	50.00	49.87	0.1941449	0.1936348		-0.3	20
N-Nitrosodiphenylamine	A	50.00	48.86	0.6728889	0.6575548		-2.3	20
N-Nitroso-di-n-propylamine	A	50.00	54.26	1.033966	1.122028	0.05	8.5	20
Phenol	A	50.00	54.61	1.687698	1.84319		9.2	20
1,2,4,5-Tetrachlorobenzene	A	50.00	44.02	0.3352828	0.2951571		-12.0	20
2,3,4,6-Tetrachlorophenol	A	50.00	51.63	0.3340715	0.3449688		3.3	20
2,4,6-Trichlorophenol	A	50.00	48.30	0.382004	0.3690316		-3.4	20
2,4,5-Trichlorophenol	A	50.00	48.84	0.4142645	0.4046641		-2.3	20
2-Fluorobiphenyl	A	50.00	51.42	1.265417	1.30147		2.8	20
2-Fluorophenol	A	100.0	114.3	1.142171	1.305396		14.3	20
Nitrobenzene-d5	A	50.00	51.02	0.4075494	0.4158624		2.0	20
Phenol-d6	A	100.0	115.3	1.572986	1.813379		15.3	20
Terphenyl-d14	A	50.00	51.94	0.7462196	0.7751639		3.9	20
2,4,6-Tribromophenol	A	100.0	94.33	0.109869	0.1036343		-5.7	20

Column to be used to flag Response Factor and %Diff/Drift values with an asterisk

* Values outside of QC limits

CONTINUING CALIBRATION CHECK

SW8270C

Laboratory:	Empirical Laboratories, LLC	SDG:	1109191
Client:	Tetra Tech NUS, Inc. (T010)	Project:	Navy Fuel Depot CTO JM46
Instrument ID:	MS-BNA3	Calibration:	1236001
Lab File ID:	SEQ-CCV3.D	Calibration Date:	04/29/11 17:45
Sequence:	1J28307	Injection Date:	10/08/11
Lab Sample ID:	1J28307-CCV1	Injection Time:	05:54

		CONC. (ug/mL)		RESPONSE FACTOR			% DIFF / DRIFT	
COMPOUND	TYPE	STD	CCV	ICAL	CCV	MIN (#)	CCV	LIMIT (#)
Acetophenone	A	50.00	52.83	1.801986	1.904031		5.7	20
Atrazine	A	50.00	44.30	0.2344682	0.2077178		-11.4	20
1,1-Biphenyl	A	50.00	51.19	1.444453	1.478756		2.4	20
4-Bromophenyl-phenylether	A	50.00	53.43	0.2284778	0.2441324		6.9	20
Butylbenzylphthalate	A	50.00	58.49	0.5129818	0.6001195		17.0	20
Caprolactam	A	50.00	46.78	0.1128421	0.1055663		-6.4	20
Carbazole	A	50.00	49.25	1.044381	1.028707		-1.5	20
4-Chloro-3-methylphenol	A	50.00	57.20	0.3113523	0.3561897		14.4	20
4-Chloroaniline	A	50.00	53.93	0.4225325	0.4557767		7.9	20
Bis(2-chloroethoxy)methane	A	50.00	51.57	0.4269873	0.4403763		3.1	20
Bis(2-chloroethyl)ether	A	50.00	53.29	1.297842	1.383251		6.6	20
2,2'-Oxybis-1-chloropropane	A	50.00	44.68	1.947114	1.740003		-10.6	20
2-Chloronaphthalene	A	50.00	57.64	1.087766	1.253943		15.3	20
2-Chlorophenol	A	50.00	49.02	1.315004	1.289102		-2.0	20
4-Chlorophenyl phenyl ether	A	50.00	59.21	0.6233489	0.7381858		18.4	20
Dibenzofuran	A	50.00	58.02	1.535116	1.781247		16.0	20
Di-n-butylphthalate	A	50.00	52.31	1.182012	1.236706		4.6	20
3,3'-Dichlorobenzidine	A	50.00	53.73	0.4067228	0.4370845		7.5	20
2,4-Dichlorophenol	A	50.00	53.25	0.3046728	0.3244636		6.5	20
Diethylphthalate	A	50.00	58.90	1.194731	1.407348		17.8	20
2,4-Dimethylphenol	A	50.00	57.37	0.3636609	0.417245		14.7	20
Dimethyl phthalate	A	50.00	53.63	1.24444	1.334734		7.3	20
4,6-Dinitro-2-methylphenol	A	50.00	56.39	0.1454148	0.1639997		12.8	20
2,4-Dinitrophenol	A	50.00	62.72	0.1854397	0.2326055	0.05	25.4	20 *
2,4-Dinitrotoluene	A	50.00	57.51	0.3929838	0.4520177		15.0	20
2,6-Dinitrotoluene	A	50.00	52.43	0.2991862	0.3137104		4.9	20
Di-n-octylphthalate	A	50.00	65.31	1.204345	1.573129		30.6	20 *
Bis(2-ethylhexyl)phthalate	A	50.00	59.21	0.6793074	0.8043739		18.4	20
Hexachlorobenzene	A	50.00	50.82	0.244362	0.2483617		1.6	20

CONTINUING CALIBRATION CHECK

SW8270C

Laboratory:	Empirical Laboratories, LLC	SDG:	1109191
Client:	Tetra Tech NUS, Inc. (T010)	Project:	Navy Fuel Depot CTO JM46
Instrument ID:	MS-BNA3	Calibration:	1236001
Lab File ID:	SEQ-CCV3.D	Calibration Date:	04/29/11 17:45
Sequence:	1J28307	Injection Date:	10/08/11
Lab Sample ID:	1J28307-CCV1	Injection Time:	05:54

		CONC. (ug/mL)		RESPONSE FACTOR			% DIFF / DRIFT	
COMPOUND	TYPE	STD	CCV	ICAL	CCV	MIN (#)	CCV	LIMIT (#)
Hexachlorocyclopentadiene	A	50.00	60.30	0.3749749	0.4521828	0.05	20.6	20 *
Hexachloroethane	A	50.00	51.53	0.5464632	0.5631465		3.1	20
Isophorone	A	50.00	52.55	0.7442763	0.7821931		5.1	20
2-Methylphenol	A	50.00	50.76	1.208635	1.226892		1.5	20
4-Methylphenol	A	50.00	50.41	1.268409	1.278836		0.8	20
Naphthalene	A	50.00	53.26	0.9958993	1.060812		6.5	20
4-Nitroaniline	A	50.00	48.63	0.3272887	0.3183416		-2.7	20
3-Nitroaniline	A	50.00	51.21	0.3230815	0.3309074		2.4	20
2-Nitroaniline	A	50.00	54.97	0.3700237	0.4067698		9.9	20
Nitrobenzene	A	50.00	57.07	0.4107927	0.468851		14.1	20
4-Nitrophenol	A	50.00	61.70	0.2721678	0.3358452	0.05	23.4	20 *
2-Nitrophenol	A	50.00	52.06	0.1941449	0.2021623		4.1	20
N-Nitrosodiphenylamine	A	50.00	52.37	0.6728889	0.704838		4.7	20
N-Nitroso-di-n-propylamine	A	50.00	54.93	1.033966	1.135978	0.05	9.9	20
Phenol	A	50.00	56.40	1.687698	1.903794		12.8	20
1,2,4,5-Tetrachlorobenzene	A	50.00	54.76	0.3352828	0.367202		9.5	20
2,3,4,6-Tetrachlorophenol	A	50.00	58.73	0.3340715	0.3923941		17.5	20
2,4,6-Trichlorophenol	A	50.00	54.47	0.382004	0.4161738		8.9	20
2,4,5-Trichlorophenol	A	50.00	55.05	0.4142645	0.4560675		10.1	20
2-Fluorobiphenyl	A	50.00	59.51	1.265417	1.506013		19.0	20
2-Fluorophenol	A	100.0	104.6	1.142171	1.194623		4.6	20
Nitrobenzene-d5	A	50.00	57.42	0.4075494	0.4680283		14.8	20
Phenol-d6	A	100.0	102.7	1.572986	1.616143		2.7	20
Terphenyl-d14	A	50.00	56.50	0.7462196	0.843296		13.0	20
2,4,6-Tribromophenol	A	100.0	107.1	0.109869	0.1176775		7.1	20

Column to be used to flag Response Factor and %Diff/Drift values with an asterisk

* Values outside of QC limits

CONTINUING CALIBRATION CHECK

SW8270C

Laboratory:	Empirical Laboratories, LLC	SDG:	1109191
Client:	Tetra Tech NUS, Inc. (T010)	Project:	Navy Fuel Depot CTO JM46
Instrument ID:	MS-BNA3	Calibration:	1236001
Lab File ID:	SEQ-CCV4.D	Calibration Date:	04/29/11 17:45
Sequence:	1J28307	Injection Date:	10/08/11
Lab Sample ID:	1J28307-CCV2	Injection Time:	06:33

		CONC. (ug/mL)		RESPONSE FACTOR			% DIFF / DRIFT	
COMPOUND	TYPE	STD	CCV	ICAL	CCV	MIN (#)	CCV	LIMIT (#)
Benzaldehyde	A	50.00	47.44	1.010105	0.9584704		-5.1	20

Column to be used to flag Response Factor and %Diff/Drift values with an asterisk

* Values outside of QC limits

CONTINUING CALIBRATION CHECK

SW8270C

Laboratory:	Empirical Laboratories, LLC	SDG:	1109191
Client:	Tetra Tech NUS, Inc. (T010)	Project:	Navy Fuel Depot CTO JM46
Instrument ID:	MS-BNA3	Calibration:	1236001
Lab File ID:	SEQ-CCV1.D	Calibration Date:	04/29/11 17:45
Sequence:	1J29003	Injection Date:	10/14/11
Lab Sample ID:	1J29003-CCV1	Injection Time:	16:44

		CONC. (ug/mL)		RESPONSE FACTOR			% DIFF / DRIFT	
COMPOUND	TYPE	STD	CCV	ICAL	CCV	MIN (#)	CCV	LIMIT (#)
Acenaphthene	A	50.00	50.16	1.110356	1.113945		0.3	20
Acenaphthylene	A	50.00	52.35	1.725208	1.806407		4.7	20
Acetophenone	A	50.00	51.33	1.801986	1.849893		2.7	20
Anthracene	A	50.00	47.18	1.092671	1.031154		-5.6	20
Atrazine	A	50.00	40.97	0.2344682	0.1921233		-18.1	20
Benzo(a)anthracene	A	50.00	44.38	1.119297	0.9935675		-11.2	20
Benzo(a)pyrene	A	50.00	46.67	1.045862	0.9762398		-6.7	20
Benzo(b)fluoranthene	A	50.00	52.66	1.093698	1.151862		5.3	20
Benzo(g,h,i)perylene	A	50.00	36.98	1.033139	0.7641106		-26.0	20 *
Benzo(k)fluoranthene	A	50.00	49.56	1.107729	1.098061		-0.9	20
1,1-Biphenyl	A	50.00	47.85	1.444453	1.382298		-4.3	20
4-Bromophenyl-phenylether	A	50.00	44.96	0.2284778	0.205454		-10.1	20
Butylbenzylphthalate	A	50.00	43.49	0.5129818	0.4462261		-13.0	20
Caprolactam	A	50.00	45.29	0.1128421	0.1022212		-9.4	20
Carbazole	A	50.00	42.68	1.044381	0.89155		-14.6	20
4-Chloro-3-methylphenol	A	50.00	48.11	0.3113523	0.2995664		-3.8	20
4-Chloroaniline	A	50.00	48.98	0.4225325	0.4138869		-2.0	20
Bis(2-chloroethoxy)methane	A	50.00	48.05	0.4269873	0.4103472		-3.9	20
Bis(2-chloroethyl)ether	A	50.00	49.75	1.297842	1.29123		-0.5	20
2,2'-Oxybis-1-chloropropane	A	50.00	41.77	1.947114	1.626625		-16.5	20
2-Chloronaphthalene	A	50.00	53.43	1.087766	1.162443		6.9	20
2-Chlorophenol	A	50.00	46.74	1.315004	1.229264		-6.5	20
4-Chlorophenyl phenyl ether	A	50.00	54.15	0.6233489	0.6750805		8.3	20
Chrysene	A	50.00	44.05	1.047865	0.9230835		-11.9	20
Dibenz(a,h)anthracene	A	50.00	38.64	1.004478	0.7762532		-22.7	20 *
Dibenzofuran	A	50.00	52.47	1.535116	1.610831		4.9	20
Di-n-butylphthalate	A	50.00	44.57	1.182012	1.053639		-10.9	20
3,3'-Dichlorobenzidine	A	50.00	43.60	0.4067228	0.3546812		-12.8	20
2,4-Dichlorophenol	A	50.00	50.21	0.3046728	0.3059619		0.4	20

CONTINUING CALIBRATION CHECK

SW8270C

Laboratory:	Empirical Laboratories, LLC	SDG:	1109191
Client:	Tetra Tech NUS, Inc. (T010)	Project:	Navy Fuel Depot CTO JM46
Instrument ID:	MS-BNA3	Calibration:	1236001
Lab File ID:	SEQ-CCV1.D	Calibration Date:	04/29/11 17:45
Sequence:	1J29003	Injection Date:	10/14/11
Lab Sample ID:	1J29003-CCV1	Injection Time:	16:44

		CONC. (ug/mL)		RESPONSE FACTOR			% DIFF / DRIFT	
COMPOUND	TYPE	STD	CCV	ICAL	CCV	MIN (#)	CCV	LIMIT (#)
Diethylphthalate	A	50.00	52.74	1.194731	1.260146		5.5	20
2,4-Dimethylphenol	A	50.00	51.94	0.3636609	0.3777554		3.9	20
Dimethyl phthalate	A	50.00	51.25	1.24444	1.275547		2.5	20
4,6-Dinitro-2-methylphenol	A	50.00	46.12	0.1454148	0.1341206		-7.8	20
2,4-Dinitrophenol	A	50.00	49.38	0.1854397	0.183138	0.05	-1.2	20
2,4-Dinitrotoluene	A	50.00	52.29	0.3929838	0.4109704		4.6	20
2,6-Dinitrotoluene	A	50.00	51.37	0.2991862	0.3073763		2.7	20
Di-n-octylphthalate	A	50.00	52.41	1.204345	1.262339		4.8	20
Bis(2-ethylhexyl)phthalate	A	50.00	41.73	0.6793074	0.5669214		-16.5	20
Fluoranthene	A	50.00	45.21	1.233837	1.115734		-9.6	20
Fluorene	A	50.00	52.42	1.337519	1.402215		4.8	20
Hexachlorobenzene	A	50.00	43.33	0.244362	0.2117686		-13.3	20
Hexachlorobutadiene	A	50.00	60.93	0.186857	0.2276996		21.9	20 *
Hexachlorocyclopentadiene	A	50.00	55.83	0.3749749	0.4187197	0.05	11.7	20
Hexachloroethane	A	50.00	51.27	0.5464632	0.5603251		2.5	20
Indeno(1,2,3-cd)pyrene	A	50.00	38.84	1.038008	0.8063639		-22.3	20 *
Isophorone	A	50.00	49.78	0.7442763	0.7410101		-0.4	20
1-Methylnaphthalene	A	50.00	49.66	0.5872691	0.5832891		-0.7	20
2-Methylnaphthalene	A	50.00	50.15	0.5974192	0.5992371		0.3	20
2-Methylphenol	A	50.00	48.54	1.208635	1.17333		-2.9	20
4-Methylphenol	A	50.00	48.76	1.268409	1.236885		-2.5	20
Naphthalene	A	50.00	52.31	0.9958993	1.041842		4.6	20
4-Nitroaniline	A	50.00	43.09	0.3272887	0.2820793		-13.8	20
3-Nitroaniline	A	50.00	46.46	0.3230815	0.3002244		-7.1	20
2-Nitroaniline	A	50.00	50.90	0.3700237	0.376699		1.8	20
Nitrobenzene	A	50.00	55.00	0.4107927	0.4518451		10.0	20
4-Nitrophenol	A	50.00	49.05	0.2721678	0.2669898	0.05	-1.9	20
2-Nitrophenol	A	50.00	50.24	0.1941449	0.1950868		0.5	20
N-Nitrosodiphenylamine	A	50.00	43.80	0.6728889	0.5894192		-12.4	20

CONTINUING CALIBRATION CHECK

SW8270C

Laboratory:	Empirical Laboratories, LLC	SDG:	1109191
Client:	Tetra Tech NUS, Inc. (T010)	Project:	Navy Fuel Depot CTO JM46
Instrument ID:	MS-BNA3	Calibration:	1236001
Lab File ID:	SEQ-CCV1.D	Calibration Date:	04/29/11 17:45
Sequence:	1J29003	Injection Date:	10/14/11
Lab Sample ID:	1J29003-CCV1	Injection Time:	16:44

		CONC. (ug/mL)		RESPONSE FACTOR			% DIFF / DRIFT	
COMPOUND	TYPE	STD	CCV	ICAL	CCV	MIN (#)	CCV	LIMIT (#)
N-Nitroso-di-n-propylamine	A	50.00	53.17	1.033966	1.099508	0.05	6.3	20
Pentachlorophenol	A	50.00	40.17	0.1623094	0.1304009		-19.7	20
Phenanthrene	A	50.00	46.88	1.075866	1.008663		-6.2	20
Phenol	A	50.00	47.15	1.687698	1.591567		-5.7	20
Pyrene	A	50.00	45.01	1.163766	1.047537		-10.0	20
1,2,4,5-Tetrachlorobenzene	A	50.00	53.25	0.3352828	0.3570451		6.5	20
2,3,4,6-Tetrachlorophenol	A	50.00	49.65	0.3340715	0.3317395		-0.7	20
2,4,6-Trichlorophenol	A	50.00	50.67	0.382004	0.3871208		1.3	20
2,4,5-Trichlorophenol	A	50.00	46.81	0.4142645	0.3878184		-6.4	20
2-Fluorobiphenyl	A	50.00	54.00	1.265417	1.366756		8.0	20
2-Fluorophenol	A	100.0	96.21	1.142171	1.098845		-3.8	20
Nitrobenzene-d5	A	50.00	55.73	0.4075494	0.4542213		11.5	20
Phenol-d6	A	100.0	96.57	1.572986	1.519016		-3.4	20
Terphenyl-d14	A	50.00	47.57	0.7462196	0.7099005		-4.9	20
2,4,6-Tribromophenol	A	100.0	84.96	0.109869	9.334624E-02		-15.0	20

Column to be used to flag Response Factor and %Diff/Drift values with an asterisk

* Values outside of QC limits

CONTINUING CALIBRATION CHECK

SW8270C

Laboratory:	Empirical Laboratories, LLC	SDG:	1109191
Client:	Tetra Tech NUS, Inc. (T010)	Project:	Navy Fuel Depot CTO JM46
Instrument ID:	MS-BNA3	Calibration:	1236001
Lab File ID:	SEQ-CCV2.D	Calibration Date:	04/29/11 17:45
Sequence:	1J29003	Injection Date:	10/14/11
Lab Sample ID:	1J29003-CCV2	Injection Time:	17:33

		CONC. (ug/mL)		RESPONSE FACTOR			% DIFF / DRIFT	
COMPOUND	TYPE	STD	CCV	ICAL	CCV	MIN (#)	CCV	LIMIT (#)
Benzaldehyde	A	50.00	49.76	1.010105	1.005344		-0.5	20

Column to be used to flag Response Factor and %Diff/Drift values with an asterisk

* Values outside of QC limits

CONTINUING CALIBRATION CHECK

SW8270C

Laboratory:	Empirical Laboratories, LLC	SDG:	1109191
Client:	Tetra Tech NUS, Inc. (T010)	Project:	Navy Fuel Depot CTO JM46
Instrument ID:	MS-BNA3	Calibration:	1236001
Lab File ID:	SEQ-CCV1.D	Calibration Date:	04/29/11 17:45
Sequence:	1J29105	Injection Date:	10/15/11
Lab Sample ID:	1J29105-CCV1	Injection Time:	13:33

		CONC. (ug/mL)		RESPONSE FACTOR			% DIFF / DRIFT	
COMPOUND	TYPE	STD	CCV	ICAL	CCV	MIN (#)	CCV	LIMIT (#)
Acenaphthene	A	50.00	50.07	1.110356	1.111848		0.1	20
Acenaphthylene	A	50.00	51.26	1.725208	1.768765		2.5	20
Acetophenone	A	50.00	49.38	1.801986	1.779532		-1.2	20
Anthracene	A	50.00	46.60	1.092671	1.018367		-6.8	20
Atrazine	A	50.00	43.15	0.2344682	0.2023613		-13.7	20
Benzo(a)anthracene	A	50.00	45.00	1.119297	1.007292		-10.0	20
Benzo(a)pyrene	A	50.00	44.42	1.045862	0.9292414		-11.2	20
Benzo(b)fluoranthene	A	50.00	49.93	1.093698	1.0921		-0.1	20
Benzo(g,h,i)perylene	A	50.00	35.92	1.033139	0.7422817		-28.2	20 *
Benzo(k)fluoranthene	A	50.00	46.17	1.107729	1.022987		-7.7	20
1,1-Biphenyl	A	50.00	47.20	1.444453	1.363521		-5.6	20
4-Bromophenyl-phenylether	A	50.00	46.66	0.2284778	0.2132204		-6.7	20
Butylbenzylphthalate	A	50.00	45.96	0.5129818	0.4715389		-8.1	20
Caprolactam	A	50.00	45.36	0.1128421	0.1023838		-9.3	20
Carbazole	A	50.00	43.75	1.044381	0.9138745		-12.5	20
4-Chloro-3-methylphenol	A	50.00	53.29	0.3113523	0.3318322		6.6	20
4-Chloroaniline	A	50.00	50.51	0.4225325	0.4268619		1.0	20
Bis(2-chloroethoxy)methane	A	50.00	48.72	0.4269873	0.4160827		-2.6	20
Bis(2-chloroethyl)ether	A	50.00	47.82	1.297842	1.241142		-4.4	20
2,2'-Oxybis-1-chloropropane	A	50.00	39.69	1.947114	1.545687		-20.6	20 *
2-Chloronaphthalene	A	50.00	54.59	1.087766	1.187687		9.2	20
2-Chlorophenol	A	50.00	47.71	1.315004	1.254811		-4.6	20
4-Chlorophenyl phenyl ether	A	50.00	53.43	0.6233489	0.666133		6.9	20
Chrysene	A	50.00	44.48	1.047865	0.9321551		-11.0	20
Dibenz(a,h)anthracene	A	50.00	36.86	1.004478	0.7405225		-26.3	20 *
Dibenzofuran	A	50.00	52.05	1.535116	1.597987		4.1	20
Di-n-butylphthalate	A	50.00	47.50	1.182012	1.122959		-5.0	20
3,3'-Dichlorobenzidine	A	50.00	42.74	0.4067228	0.3476595		-14.5	20
2,4-Dichlorophenol	A	50.00	53.93	0.3046728	0.3286377		7.9	20

CONTINUING CALIBRATION CHECK

SW8270C

Laboratory:	Empirical Laboratories, LLC	SDG:	1109191
Client:	Tetra Tech NUS, Inc. (T010)	Project:	Navy Fuel Depot CTO JM46
Instrument ID:	MS-BNA3	Calibration:	1236001
Lab File ID:	SEQ-CCV1.D	Calibration Date:	04/29/11 17:45
Sequence:	1J29105	Injection Date:	10/15/11
Lab Sample ID:	1J29105-CCV1	Injection Time:	13:33

		CONC. (ug/mL)		RESPONSE FACTOR			% DIFF / DRIFT	
COMPOUND	TYPE	STD	CCV	ICAL	CCV	MIN (#)	CCV	LIMIT (#)
Diethylphthalate	A	50.00	55.16	1.194731	1.317967		10.3	20
2,4-Dimethylphenol	A	50.00	54.33	0.3636609	0.3951387		8.7	20
Dimethyl phthalate	A	50.00	52.38	1.24444	1.3037		4.8	20
4,6-Dinitro-2-methylphenol	A	50.00	51.13	0.1454148	0.1487084		2.3	20
2,4-Dinitrophenol	A	50.00	56.77	0.1854397	0.2105502	0.05	13.5	20
2,4-Dinitrotoluene	A	50.00	53.04	0.3929838	0.4168888		6.1	20
2,6-Dinitrotoluene	A	50.00	50.97	0.2991862	0.3050099		1.9	20
Di-n-octylphthalate	A	50.00	52.56	1.204345	1.265975		5.1	20
Bis(2-ethylhexyl)phthalate	A	50.00	47.70	0.6793074	0.6480361		-4.6	20
Fluoranthene	A	50.00	45.92	1.233837	1.133179		-8.2	20
Fluorene	A	50.00	51.86	1.337519	1.387243		3.7	20
Hexachlorobenzene	A	50.00	45.40	0.244362	0.2218916		-9.2	20
Hexachlorobutadiene	A	50.00	61.41	0.186857	0.2294903		22.8	20 *
Hexachlorocyclopentadiene	A	50.00	57.22	0.3749749	0.4291063	0.05	14.4	20
Hexachloroethane	A	50.00	51.79	0.5464632	0.5660422		3.6	20
Indeno(1,2,3-cd)pyrene	A	50.00	37.30	1.038008	0.7744738		-25.4	20 *
Isophorone	A	50.00	51.25	0.7442763	0.7629337		2.5	20
1-Methylnaphthalene	A	50.00	50.90	0.5872691	0.5978751		1.8	20
2-Methylnaphthalene	A	50.00	49.94	0.5974192	0.5966532		-0.1	20
2-Methylphenol	A	50.00	48.10	1.208635	1.162839		-3.8	20
4-Methylphenol	A	50.00	49.14	1.268409	1.246709		-1.7	20
Naphthalene	A	50.00	51.47	0.9958993	1.025123		2.9	20
4-Nitroaniline	A	50.00	42.93	0.3272887	0.2810069		-14.1	20
3-Nitroaniline	A	50.00	45.39	0.3230815	0.2932951		-9.2	20
2-Nitroaniline	A	50.00	49.70	0.3700237	0.3678178		-0.6	20
Nitrobenzene	A	50.00	55.04	0.4107927	0.4522208		10.1	20
4-Nitrophenol	A	50.00	51.60	0.2721678	0.2809055	0.05	3.2	20
2-Nitrophenol	A	50.00	52.29	0.1941449	0.2030451		4.6	20
N-Nitrosodiphenylamine	A	50.00	44.53	0.6728889	0.5993022		-10.9	20

CONTINUING CALIBRATION CHECK

SW8270C

Laboratory:	Empirical Laboratories, LLC	SDG:	1109191
Client:	Tetra Tech NUS, Inc. (T010)	Project:	Navy Fuel Depot CTO JM46
Instrument ID:	MS-BNA3	Calibration:	1236001
Lab File ID:	SEQ-CCV1.D	Calibration Date:	04/29/11 17:45
Sequence:	1J29105	Injection Date:	10/15/11
Lab Sample ID:	1J29105-CCV1	Injection Time:	13:33

		CONC. (ug/mL)		RESPONSE FACTOR			% DIFF / DRIFT	
COMPOUND	TYPE	STD	CCV	ICAL	CCV	MIN (#)	CCV	LIMIT (#)
N-Nitroso-di-n-propylamine	A	50.00	51.50	1.033966	1.065003	0.05	3.0	20
Pentachlorophenol	A	50.00	45.84	0.1623094	0.1488243		-8.3	20
Phenanthrene	A	50.00	46.64	1.075866	1.003491		-6.7	20
Phenol	A	50.00	47.95	1.687698	1.618412		-4.1	20
Pyrene	A	50.00	44.68	1.163766	1.039966		-10.6	20
1,2,4,5-Tetrachlorobenzene	A	50.00	54.56	0.3352828	0.3658611		9.1	20
2,3,4,6-Tetrachlorophenol	A	50.00	54.47	0.3340715	0.3639126		8.9	20
2,4,6-Trichlorophenol	A	50.00	52.60	0.382004	0.4018424		5.2	20
2,4,5-Trichlorophenol	A	50.00	51.21	0.4142645	0.4242874		2.4	20
2-Fluorobiphenyl	A	50.00	52.89	1.265417	1.338616		5.8	20
2-Fluorophenol	A	100.0	101.2	1.142171	1.155823		1.2	20
Nitrobenzene-d5	A	50.00	54.52	0.4075494	0.4444321		9.0	20
Phenol-d6	A	100.0	97.08	1.572986	1.52702		-2.9	20
Terphenyl-d14	A	50.00	47.82	0.7462196	0.7136898		-4.4	20
2,4,6-Tribromophenol	A	100.0	94.54	0.109869	0.1038716		-5.5	20

Column to be used to flag Response Factor and %Diff/Drift values with an asterisk

* Values outside of QC limits

CONTINUING CALIBRATION CHECK

SW8270C

Laboratory:	Empirical Laboratories, LLC	SDG:	1109191
Client:	Tetra Tech NUS, Inc. (T010)	Project:	Navy Fuel Depot CTO JM46
Instrument ID:	MS-BNA3	Calibration:	1236001
Lab File ID:	SEQ-CCV2.D	Calibration Date:	04/29/11 17:45
Sequence:	1J29105	Injection Date:	10/15/11
Lab Sample ID:	1J29105-CCV2	Injection Time:	14:13

		CONC. (ug/mL)		RESPONSE FACTOR			% DIFF / DRIFT	
COMPOUND	TYPE	STD	CCV	ICAL	CCV	MIN (#)	CCV	LIMIT (#)
Benzaldehyde	A	50.00	48.01	1.010105	0.9699869		-4.0	20

Column to be used to flag Response Factor and %Diff/Drift values with an asterisk

* Values outside of QC limits

ANALYSIS DATA SHEET

Blank

Laboratory: Empirical Laboratories, LLC SDG: 1109191

Client: Tetra Tech NUS, Inc. (T010) Project: Navy Fuel Depot CTO JM46

Matrix: Laboratory ID: I1I26926-BLK1 File ID: I26926B1.D

Sampled: Prepared: Analyzed: 09/28/11 15:02

Solids: Preparation: EXT_3510 Dilution:

Batch: 1I26926 Sequence: 1I27208 Calibration: 1236001 Instrument: MS-BNA3

CAS NO.	COMPOUND	CONC. (ug/L)	DL	LOD	LOQ	Q
98-86-2	Acetophenone		1.25	2.50	5.00	Q, U
1912-24-9	Atrazine		1.25	2.50	5.00	U
100-52-7	Benzaldehyde		1.25	2.50	5.00	Y, U
92-52-4	1,1-Biphenyl		0.500	2.50	5.00	U
101-55-3	4-Bromophenyl-phenylether		1.25	2.50	5.00	U
85-68-7	Butylbenzylphthalate		1.25	2.50	5.00	Q, U
105-60-2	Caprolactam		1.25	2.50	5.00	Q, U
86-74-8	Carbazole		1.25	2.50	5.00	U
59-50-7	4-Chloro-3-methylphenol		1.25	2.50	5.00	U
106-47-8	4-Chloroaniline		1.25	2.50	5.00	U
111-91-1	Bis(2-chloroethoxy)methane		1.25	2.50	5.00	U
111-44-4	Bis(2-chloroethyl)ether		1.25	2.50	5.00	U
108-60-1	2,2'-Oxybis-1-chloropropane		0.500	2.50	5.00	Y, U
91-58-7	2-Chloronaphthalene		1.25	2.50	5.00	U
95-57-8	2-Chlorophenol		1.25	2.50	5.00	U
7005-72-3	4-Chlorophenyl phenyl ether		1.25	2.50	5.00	U
132-64-9	Dibenzofuran		1.25	2.50	5.00	U
84-74-2	Di-n-butylphthalate		1.25	2.50	5.00	U
91-94-1	3,3'-Dichlorobenzidine		1.25	2.50	5.00	U
120-83-2	2,4-Dichlorophenol		0.250	2.50	5.00	U
84-66-2	Diethylphthalate		1.25	2.50	5.00	U
105-67-9	2,4-Dimethylphenol		5.00	10.0	20.0	U
131-11-3	Dimethyl phthalate		1.25	2.50	5.00	U
534-52-1	4,6-Dinitro-2-methylphenol		5.00	10.0	20.0	U
51-28-5	2,4-Dinitrophenol		12.5	25.0	50.0	X, U
121-14-2	2,4-Dinitrotoluene		1.25	2.50	5.00	U
606-20-2	2,6-Dinitrotoluene		1.25	2.50	5.00	U
117-84-0	Di-n-octylphthalate		1.25	2.50	5.00	U
117-81-7	Bis(2-ethylhexyl)phthalate		1.25	2.50	5.00	U
118-74-1	Hexachlorobenzene		1.00	2.50	5.00	U
77-47-4	Hexachlorocyclopentadiene		1.25	2.50	5.00	U
67-72-1	Hexachloroethane		1.25	2.50	5.00	U
78-59-1	Isophorone		1.25	2.50	5.00	Y, U
95-48-7	2-Methylphenol		1.25	2.50	5.00	U
106-44-5	4-Methylphenol		1.25	2.50	5.00	U
91-20-3	Naphthalene		1.25	2.50	5.00	U
100-01-6	4-Nitroaniline		1.25	2.50	5.00	U
99-09-2	3-Nitroaniline		1.25	2.50	5.00	U
88-74-4	2-Nitroaniline		5.00	10.0	20.0	X, U
98-95-3	Nitrobenzene		1.25	2.50	5.00	U

ANALYSIS DATA SHEET

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Laboratory: Empirical Laboratories, LLC SDG: 1109191

Client: Tetra Tech NUS, Inc. (T010) Project: Navy Fuel Depot CTO JM46

Matrix: Laboratory ID: 1I26926-BLK1 File ID: I26926B1.D

Sampled: Prepared: Analyzed: 09/28/11 15:02

Solids: Preparation: EXT_3510 Dilution:

Batch: 1I26926 Sequence: 1I27208 Calibration: 1236001 Instrument: MS-BNA3

CAS NO.	COMPOUND	CONC. (ug/L)	DL	LOD	LOQ	Q
100-02-7	4-Nitrophenol		5.00	10.0	20.0	U
88-75-5	2-Nitrophenol		1.25	2.50	5.00	U
86-30-6	N-Nitrosodiphenylamine		1.25	2.50	5.00	U
621-64-7	N-Nitroso-di-n-propylamine		1.25	2.50	5.00	U
108-95-2	Phenol		1.25	2.50	5.00	U
95-94-3	1,2,4,5-Tetrachlorobenzene		1.25	2.50	5.00	U
58-90-2	2,3,4,6-Tetrachlorophenol		1.25	2.50	5.00	U
88-06-2	2,4,6-Trichlorophenol		1.25	2.50	5.00	U
95-95-4	2,4,5-Trichlorophenol		0.500	2.50	5.00	U

SYSTEM MONITORING COMPOUND	ADDED (ug/L)	CONC (ug/L)	% REC	QC LIMITS	Q
2-Fluorobiphenyl	50.00	29.82	59.6	50 - 110	
2-Fluorophenol	100.0	37.87	37.9	20 - 110	
Nitrobenzene-d5	50.00	40.23	80.5	40 - 110	
Phenol-d6	100.0	21.38	21.4	0 - 110	
Terphenyl-d14	50.00	46.21	92.4	50 - 135	
2,4,6-Tribromophenol	100.0	78.28	78.3	40 - 125	

ANALYSIS DATA SHEET

LCS

Laboratory: Empirical Laboratories, LLC SDG: 1109191

Client: Tetra Tech NUS, Inc. (T010) Project: Navy Fuel Depot CTO JM46

Matrix: Laboratory ID: 1I26926-BS1 File ID: I26926L1.D

Sampled: Prepared: Analyzed: 09/28/11 15:43

Solids: Preparation: EXT_3510 Dilution:

Batch: 1I26926 Sequence: 1I27208 Calibration: 1236001 Instrument: MS-BNA3

CAS NO.	COMPOUND	CONC. (ug/L)	DL	LOD	LOQ	Q
98-86-2	Acetophenone	55.42	1.25	2.50	5.00	
1912-24-9	Atrazine	52.78	1.25	2.50	5.00	
100-52-7	Benzaldehyde	53.27	1.25	2.50	5.00	Y
92-52-4	1,1-Biphenyl	52.62	0.500	2.50	5.00	
101-55-3	4-Bromophenyl-phenylether	52.29	1.25	2.50	5.00	
85-68-7	Butylbenzylphthalate	58.41	1.25	2.50	5.00	
105-60-2	Caprolactam	7.862	1.25	2.50	5.00	
86-74-8	Carbazole	48.92	1.25	2.50	5.00	
59-50-7	4-Chloro-3-methylphenol	43.58	1.25	2.50	5.00	
106-47-8	4-Chloroaniline	41.43	1.25	2.50	5.00	
111-91-1	Bis(2-chloroethoxy)methane	51.52	1.25	2.50	5.00	
111-44-4	Bis(2-chloroethyl)ether	52.11	1.25	2.50	5.00	
108-60-1	2,2'-Oxybis-1-chloropropane	38.46	0.500	2.50	5.00	Y
91-58-7	2-Chloronaphthalene	46.02	1.25	2.50	5.00	
95-57-8	2-Chlorophenol	38.56	1.25	2.50	5.00	
7005-72-3	4-Chlorophenyl phenyl ether	54.25	1.25	2.50	5.00	
132-64-9	Dibenzofuran	51.10	1.25	2.50	5.00	
84-74-2	Di-n-butylphthalate	54.68	1.25	2.50	5.00	
91-94-1	3,3'-Dichlorobenzidine	48.36	1.25	2.50	5.00	
120-83-2	2,4-Dichlorophenol	41.42	0.250	2.50	5.00	
84-66-2	Diethylphthalate	54.18	1.25	2.50	5.00	
105-67-9	2,4-Dimethylphenol	42.41	5.00	10.0	20.0	
131-11-3	Dimethyl phthalate	54.11	1.25	2.50	5.00	
534-52-1	4,6-Dinitro-2-methylphenol	57.14	5.00	10.0	20.0	
51-28-5	2,4-Dinitrophenol	43.03	12.5	25.0	50.0	X, I
121-14-2	2,4-Dinitrotoluene	52.68	1.25	2.50	5.00	
606-20-2	2,6-Dinitrotoluene	51.33	1.25	2.50	5.00	
117-84-0	Di-n-octylphthalate	58.16	1.25	2.50	5.00	
117-81-7	Bis(2-ethylhexyl)phthalate	58.87	1.25	2.50	5.00	
118-74-1	Hexachlorobenzene	46.77	1.00	2.50	5.00	
77-47-4	Hexachlorocyclopentadiene	26.61	1.25	2.50	5.00	
67-72-1	Hexachloroethane	30.91	1.25	2.50	5.00	
78-59-1	Isophorone	45.82	1.25	2.50	5.00	Y
95-48-7	2-Methylphenol	33.42	1.25	2.50	5.00	
106-44-5	4-Methylphenol	30.07	1.25	2.50	5.00	
91-20-3	Naphthalene	43.62	1.25	2.50	5.00	
100-01-6	4-Nitroaniline	45.33	1.25	2.50	5.00	
99-09-2	3-Nitroaniline	40.71	1.25	2.50	5.00	
88-74-4	2-Nitroaniline	50.84	5.00	10.0	20.0	X
98-95-3	Nitrobenzene	48.43	1.25	2.50	5.00	

ANALYSIS DATA SHEET

LCS

Laboratory: Empirical Laboratories, LLC SDG: 1109191

Client: Tetra Tech NUS, Inc. (T010) Project: Navy Fuel Depot CTO JM46

Matrix: Laboratory ID: I126926-BS1 File ID: I26926L1.D

Sampled: Prepared: Analyzed: 09/28/11 15:43

Solids: Preparation: EXT_3510 Dilution:

Batch: I126926 Sequence: I127208 Calibration: 1236001 Instrument: MS-BNA3

CAS NO.	COMPOUND	CONC. (ug/L)	DL	LOD	LOQ	Q
100-02-7	4-Nitrophenol	14.12	5.00	10.0	20.0	I
88-75-5	2-Nitrophenol	46.35	1.25	2.50	5.00	
86-30-6	N-Nitrosodiphenylamine	38.81	1.25	2.50	5.00	
621-64-7	N-Nitroso-di-n-propylamine	56.91	1.25	2.50	5.00	
108-95-2	Phenol	13.29	1.25	2.50	5.00	
95-94-3	1,2,4,5-Tetrachlorobenzene	46.32	1.25	2.50	5.00	
58-90-2	2,3,4,6-Tetrachlorophenol	48.74	1.25	2.50	5.00	
88-06-2	2,4,6-Trichlorophenol	48.02	1.25	2.50	5.00	
95-95-4	2,4,5-Trichlorophenol	45.46	0.500	2.50	5.00	

SYSTEM MONITORING COMPOUND	ADDED (ug/L)	CONC (ug/L)	% REC	QC LIMITS	Q
2-Fluorobiphenyl	50.00	29.32	58.6	50 - 110	
2-Fluorophenol	100.0	44.94	44.9	20 - 110	
Nitrobenzene-d5	50.00	42.82	85.6	40 - 110	
Phenol-d6	100.0	25.30	25.3	0 - 110	
Terphenyl-d14	50.00	54.55	109	50 - 135	
2,4,6-Tribromophenol	100.0	89.98	90.0	40 - 125	

ANALYSIS DATA SHEET

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Laboratory: Empirical Laboratories, LLC SDG: 1109191

Client: Tetra Tech NUS, Inc. (T010) Project: Navy Fuel Depot CTO JM46

Matrix: Laboratory ID: 1J03009-BLK1 File ID: J03009B1.D

Sampled: Prepared: Analyzed: 10/14/11 22:54

Solids: Preparation: EXT_3546 Dilution:

Batch: 1J03009 Sequence: 1J29003 Calibration: 1236001 Instrument: MS-BNA3

CAS NO.	COMPOUND	ONC. (ug/Kg we	DL	LOD	LOQ	Q
83-32-9	Acenaphthene		83.3	167	333	U
208-96-8	Acenaphthylene		83.3	167	333	U
98-86-2	Acetophenone		83.3	167	333	U
120-12-7	Anthracene		83.3	167	333	U
1912-24-9	Atrazine		83.3	167	333	U
100-52-7	Benzaldehyde		83.3	167	333	U
56-55-3	Benzo(a)anthracene		83.3	167	333	U
50-32-8	Benzo(a)pyrene		83.3	167	333	S, U
205-99-2	Benzo(b)fluoranthene		83.3	167	333	S, U
191-24-2	Benzo(g,h,i)perylene		83.3	167	333	S, Y, U
207-08-9	Benzo(k)fluoranthene		83.3	167	333	S, U
92-52-4	1,1-Biphenyl		83.3	167	333	U
101-55-3	4-Bromophenyl-phenylether		83.3	167	333	U
85-68-7	Butylbenzylphthalate		83.3	167	333	U
105-60-2	Caprolactam		83.3	167	333	U
86-74-8	Carbazole		83.3	167	333	U
59-50-7	4-Chloro-3-methylphenol		83.3	167	333	U
106-47-8	4-Chloroaniline		83.3	167	333	U
111-91-1	Bis(2-chloroethoxy)methane		83.3	167	333	U
111-44-4	Bis(2-chloroethyl)ether		83.3	167	333	U
108-60-1	2,2'-Oxybis-1-chloropropane		83.3	167	333	U
91-58-7	2-Chloronaphthalene		83.3	167	333	U
95-57-8	2-Chlorophenol		83.3	167	333	U
7005-72-3	4-Chlorophenyl phenyl ether		83.3	167	333	U
218-01-9	Chrysene		83.3	167	333	U
53-70-3	Dibenz(a,h)anthracene		83.3	167	333	S, Y, U
132-64-9	Dibenzofuran		83.3	167	333	U
84-74-2	Di-n-butylphthalate		83.3	167	333	U
91-94-1	3,3'-Dichlorobenzidine		83.3	167	333	U
120-83-2	2,4-Dichlorophenol		83.3	167	333	U
84-66-2	Diethylphthalate		83.3	167	333	U
105-67-9	2,4-Dimethylphenol		333	667	1330	U
131-11-3	Dimethyl phthalate		83.3	167	333	U
534-52-1	4,6-Dinitro-2-methylphenol		833	1670	3330	U
51-28-5	2,4-Dinitrophenol		833	1670	3330	X, U
121-14-2	2,4-Dinitrotoluene		83.3	167	333	U
606-20-2	2,6-Dinitrotoluene		83.3	167	333	U
117-84-0	Di-n-octylphthalate		83.3	167	333	Q, S, U
117-81-7	Bis(2-ethylhexyl)phthalate		83.3	167	333	U
206-44-0	Fluoranthene		83.3	167	333	U

ANALYSIS DATA SHEET

Blank

Laboratory: Empirical Laboratories, LLC SDG: 1109191

Client: Tetra Tech NUS, Inc. (T010) Project: Navy Fuel Depot CTO JM46

Matrix: Laboratory ID: 1J03009-BLK1 File ID: J03009B1.D

Sampled: Prepared: Analyzed: 10/14/11 22:54

Solids: Preparation: EXT_3546 Dilution:

Batch: 1J03009 Sequence: 1J29003 Calibration: 1236001 Instrument: MS-BNA3

CAS NO.	COMPOUND	ONC. (ug/Kg we	DL	LOD	LOQ	Q
86-73-7	Fluorene		83.3	167	333	U
118-74-1	Hexachlorobenzene		83.3	167	333	U
87-68-3	Hexachlorobutadiene		83.3	167	333	Q, X, U
77-47-4	Hexachlorocyclopentadiene		83.3	167	333	U
67-72-1	Hexachloroethane		83.3	167	333	U
193-39-5	Indeno(1,2,3-cd)pyrene		83.3	167	333	S, Y, U
78-59-1	Isophorone		83.3	167	333	U
90-12-0	1-Methylnaphthalene		83.3	167	333	U
91-57-6	2-Methylnaphthalene		83.3	167	333	U
95-48-7	2-Methylphenol		83.3	167	333	U
106-44-5	4-Methylphenol		83.3	167	333	U
91-20-3	Naphthalene		83.3	167	333	U
100-01-6	4-Nitroaniline		333	667	1330	U
99-09-2	3-Nitroaniline		333	667	1330	U
88-74-4	2-Nitroaniline		333	667	1330	U
98-95-3	Nitrobenzene		83.3	167	333	U
100-02-7	4-Nitrophenol		333	667	1330	U
88-75-5	2-Nitrophenol		83.3	167	333	U
86-30-6	N-Nitrosodiphenylamine		83.3	167	333	U
621-64-7	N-Nitroso-di-n-propylamine		83.3	167	333	Q, U
87-86-5	Pentachlorophenol		333	667	1330	U
85-01-8	Phenanthrene		83.3	167	333	U
108-95-2	Phenol		83.3	167	333	U
129-00-0	Pyrene		83.3	167	333	U
95-94-3	1,2,4,5-Tetrachlorobenzene		83.3	167	333	U
58-90-2	2,3,4,6-Tetrachlorophenol		83.3	167	333	U
88-06-2	2,4,6-Trichlorophenol		83.3	167	333	U
95-95-4	2,4,5-Trichlorophenol		83.3	167	333	U

SYSTEM MONITORING COMPOUND	ADDED (ug/Kg wet)	CONC (ug/Kg wet)	% REC	QC LIMITS	Q
2-Fluorobiphenyl	3333	3030	90.9	45 - 105	
2-Fluorophenol	6667	5769	86.5	35 - 105	
Nitrobenzene-d5	3333	3133	94.0	35 - 100	
Phenol-d6	6667	5775	86.6	40 - 100	
Terphenyl-d14	3333	3540	106	30 - 125	
2,4,6-Tribromophenol	6667	5970	89.5	35 - 125	

ANALYSIS DATA SHEET

LCS

Laboratory: Empirical Laboratories, LLC SDG: 1109191

Client: Tetra Tech NUS, Inc. (T010) Project: Navy Fuel Depot CTO JM46

Matrix: Laboratory ID: 1J03009-BS1 File ID: J03009L1.D

Sampled: Prepared: Analyzed: 10/14/11 23:34

Solids: Preparation: EXT_3546 Dilution:

Batch: 1J03009 Sequence: 1J29003 Calibration: 1236001 Instrument: MS-BNA3

CAS NO.	COMPOUND	ONC. (ug/Kg we	DL	LOD	LOQ	Q
83-32-9	Acenaphthene	2804	83.3	167	333	
208-96-8	Acenaphthylene	2462	83.3	167	333	
98-86-2	Acetophenone	3294	83.3	167	333	
120-12-7	Anthracene	2899	83.3	167	333	
1912-24-9	Atrazine	2890	83.3	167	333	
100-52-7	Benzaldehyde	2359	83.3	167	333	
56-55-3	Benzo(a)anthracene	3045	83.3	167	333	
50-32-8	Benzo(a)pyrene	2953	83.3	167	333	
205-99-2	Benzo(b)fluoranthene	3377	83.3	167	333	
191-24-2	Benzo(g,h,i)perylene	3250	83.3	167	333	Y
207-08-9	Benzo(k)fluoranthene	3419	83.3	167	333	
92-52-4	1,1-Biphenyl	2762	83.3	167	333	
101-55-3	4-Bromophenyl-phenylether	3355	83.3	167	333	
85-68-7	Butylbenzylphthalate	3520	83.3	167	333	
105-60-2	Caprolactam	2592	83.3	167	333	
86-74-8	Carbazole	2732	83.3	167	333	
59-50-7	4-Chloro-3-methylphenol	3161	83.3	167	333	
106-47-8	4-Chloroaniline	2470	83.3	167	333	
111-91-1	Bis(2-chloroethoxy)methane	3284	83.3	167	333	
111-44-4	Bis(2-chloroethyl)ether	3020	83.3	167	333	
108-60-1	2,2'-Oxybis-1-chloropropane	2811	83.3	167	333	
91-58-7	2-Chloronaphthalene	2953	83.3	167	333	
95-57-8	2-Chlorophenol	2677	83.3	167	333	
7005-72-3	4-Chlorophenyl phenyl ether	3424	83.3	167	333	
218-01-9	Chrysene	3082	83.3	167	333	
53-70-3	Dibenz(a,h)anthracene	3333	83.3	167	333	Y
132-64-9	Dibenzofuran	3154	83.3	167	333	
84-74-2	Di-n-butylphthalate	3370	83.3	167	333	
91-94-1	3,3'-Dichlorobenzidine	2539	83.3	167	333	
120-83-2	2,4-Dichlorophenol	3009	83.3	167	333	
84-66-2	Diethylphthalate	3594	83.3	167	333	
105-67-9	2,4-Dimethylphenol	2970	333	667	1330	
131-11-3	Dimethyl phthalate	3401	83.3	167	333	
534-52-1	4,6-Dinitro-2-methylphenol	3028	833	1670	3330	I
51-28-5	2,4-Dinitrophenol	3183	833	1670	3330	X, I
121-14-2	2,4-Dinitrotoluene	3353	83.3	167	333	
606-20-2	2,6-Dinitrotoluene	3129	83.3	167	333	
117-84-0	Di-n-octylphthalate	4651	83.3	167	333	
117-81-7	Bis(2-ethylhexyl)phthalate	3550	83.3	167	333	
206-44-0	Fluoranthene	3048	83.3	167	333	

ANALYSIS DATA SHEET

LCS

Laboratory: Empirical Laboratories, LLC | SDG: 1109191

Client: Tetra Tech NUS, Inc. (T010) | Project: Navy Fuel Depot CTO JM46

Matrix: | Laboratory ID: 1J03009-BS1 | File ID: J03009L1.D

Sampled: | Prepared: | Analyzed: 10/14/11 23:34

Solids: | Preparation: EXT_3546 | Dilution:

Batch: 1J03009 | Sequence: 1J29003 | Calibration: 1236001 | Instrument: MS-BNA3

CAS NO.	COMPOUND	ONC. (ug/Kg we	DL	LOD	LOQ	Q
86-73-7	Fluorene	3060	83.3	167	333	
118-74-1	Hexachlorobenzene	3017	83.3	167	333	
87-68-3	Hexachlorobutadiene	3920	83.3	167	333	X
77-47-4	Hexachlorocyclopentadiene	1995	83.3	167	333	
67-72-1	Hexachloroethane	2766	83.3	167	333	
193-39-5	Indeno(1,2,3-cd)pyrene	3246	83.3	167	333	Y
78-59-1	Isophorone	3001	83.3	167	333	
90-12-0	1-Methylnaphthalene	2886	83.3	167	333	
91-57-6	2-Methylnaphthalene	3134	83.3	167	333	
95-48-7	2-Methylphenol	2860	83.3	167	333	
106-44-5	4-Methylphenol	3068	83.3	167	333	
91-20-3	Naphthalene	2911	83.3	167	333	
100-01-6	4-Nitroaniline	2543	333	667	1330	
99-09-2	3-Nitroaniline	2197	333	667	1330	
88-74-4	2-Nitroaniline	3000	333	667	1330	
98-95-3	Nitrobenzene	3201	83.3	167	333	
100-02-7	4-Nitrophenol	2881	333	667	1330	
88-75-5	2-Nitrophenol	2635	83.3	167	333	
86-30-6	N-Nitrosodiphenylamine	2118	83.3	167	333	
621-64-7	N-Nitroso-di-n-propylamine	3882	83.3	167	333	
87-86-5	Pentachlorophenol	2907	333	667	1330	
85-01-8	Phenanthrene	3049	83.3	167	333	
108-95-2	Phenol	2880	83.3	167	333	
129-00-0	Pyrene	3070	83.3	167	333	
95-94-3	1,2,4,5-Tetrachlorobenzene	3518	83.3	167	333	
58-90-2	2,3,4,6-Tetrachlorophenol	3013	83.3	167	333	
88-06-2	2,4,6-Trichlorophenol	2824	83.3	167	333	
95-95-4	2,4,5-Trichlorophenol	2755	83.3	167	333	

SYSTEM MONITORING COMPOUND	ADDED (ug/Kg wet)	CONC (ug/Kg wet)	% REC	QC LIMITS	Q
2-Fluorobiphenyl	3333	3027	90.8	45 - 105	
2-Fluorophenol	6667	5965	89.5	35 - 105	
Nitrobenzene-d5	3333	3058	91.7	35 - 100	
Phenol-d6	6667	6298	94.5	40 - 100	
Terphenyl-d14	3333	3471	104	30 - 125	
2,4,6-Tribromophenol	6667	6107	91.6	35 - 125	

ANALYSIS DATA SHEET

Matrix Spike

Laboratory: Empirical Laboratories, LLC SDG: 1109191

Client: Tetra Tech NUS, Inc. (T010) Project: Navy Fuel Depot CTO JM46

Matrix: Laboratory ID: 1J03009-MS1 File ID: 919102MS.D

Sampled: Prepared: Analyzed: 10/15/11 18:11

Solids: Preparation: EXT_3546 Dilution:

Batch: 1J03009 Sequence: 1J29105 Calibration: 1236001 Instrument: MS-BNA3

CAS NO.	COMPOUND	ONC. (ug/Kg dry	DL	LOD	LOQ	Q
83-32-9	Acenaphthene	2253	85.0	170	340	
208-96-8	Acenaphthylene	2024	85.0	170	340	
98-86-2	Acetophenone	2283	85.0	170	340	
120-12-7	Anthracene	2242	85.0	170	340	
1912-24-9	Atrazine	2212	85.0	170	340	
100-52-7	Benzaldehyde	1755	85.0	170	340	
56-55-3	Benzo(a)anthracene	2294	85.0	170	340	
50-32-8	Benzo(a)pyrene	2199	85.0	170	340	
205-99-2	Benzo(b)fluoranthene	2561	85.0	170	340	
191-24-2	Benzo(g,h,i)perylene	2132	85.0	170	340	Y
207-08-9	Benzo(k)fluoranthene	2570	85.0	170	340	
92-52-4	1,1-Biphenyl	2280	85.0	170	340	
101-55-3	4-Bromophenyl-phenylether	2585	85.0	170	340	
85-68-7	Butylbenzylphthalate	3026	85.0	170	340	
105-60-2	Caprolactam	2307	85.0	170	340	
86-74-8	Carbazole	1991	85.0	170	340	
59-50-7	4-Chloro-3-methylphenol	2234	85.0	170	340	
106-47-8	4-Chloroaniline	1443	85.0	170	340	
111-91-1	Bis(2-chloroethoxy)methane	2372	85.0	170	340	
111-44-4	Bis(2-chloroethyl)ether	2209	85.0	170	340	
108-60-1	2,2'-Oxybis-1-chloropropane	1957	85.0	170	340	Y
91-58-7	2-Chloronaphthalene	2412	85.0	170	340	
95-57-8	2-Chlorophenol	1890	85.0	170	340	
7005-72-3	4-Chlorophenyl phenyl ether	2623	85.0	170	340	
218-01-9	Chrysene	2409	85.0	170	340	
53-70-3	Dibenz(a,h)anthracene	2102	85.0	170	340	Y
132-64-9	Dibenzofuran	2489	85.0	170	340	
84-74-2	Di-n-butylphthalate	2370	85.0	170	340	
91-94-1	3,3'-Dichlorobenzidine	1454	85.0	170	340	
120-83-2	2,4-Dichlorophenol	2169	85.0	170	340	
84-66-2	Diethylphthalate	2629	85.0	170	340	
105-67-9	2,4-Dimethylphenol	2029	340	680	1360	
131-11-3	Dimethyl phthalate	2578	85.0	170	340	
534-52-1	4,6-Dinitro-2-methylphenol	1834	850	1700	3400	I
51-28-5	2,4-Dinitrophenol	865.6	850	1700	3400	X, I
121-14-2	2,4-Dinitrotoluene	2411	85.0	170	340	
606-20-2	2,6-Dinitrotoluene	2376	85.0	170	340	
117-84-0	Di-n-octylphthalate	3884	85.0	170	340	Q
117-81-7	Bis(2-ethylhexyl)phthalate	2926	85.0	170	340	
206-44-0	Fluoranthene	2038	85.0	170	340	

ANALYSIS DATA SHEET

Matrix Spike

Laboratory: Empirical Laboratories, LLC SDG: 1109191

Client: Tetra Tech NUS, Inc. (T010) Project: Navy Fuel Depot CTO JM46

Matrix: Laboratory ID: 1J03009-MS1 File ID: 919102MS.D

Sampled: Prepared: Analyzed: 10/15/11 18:11

Solids: Preparation: EXT_3546 Dilution:

Batch: 1J03009 Sequence: 1J29105 Calibration: 1236001 Instrument: MS-BNA3

CAS NO.	COMPOUND	ONC. (ug/Kg dry	DL	LOD	LOQ	Q
86-73-7	Fluorene	2353	85.0	170	340	
118-74-1	Hexachlorobenzene	2336	85.0	170	340	
87-68-3	Hexachlorobutadiene	3060	85.0	170	340	Q, X
77-47-4	Hexachlorocyclopentadiene	1622	85.0	170	340	
67-72-1	Hexachloroethane	2197	85.0	170	340	
193-39-5	Indeno(1,2,3-cd)pyrene	2088	85.0	170	340	Y
78-59-1	Isophorone	2168	85.0	170	340	
90-12-0	1-Methylnaphthalene	2087	85.0	170	340	
91-57-6	2-Methylnaphthalene	2310	85.0	170	340	
95-48-7	2-Methylphenol	1891	85.0	170	340	
106-44-5	4-Methylphenol	2001	85.0	170	340	
91-20-3	Naphthalene	2304	85.0	170	340	
100-01-6	4-Nitroaniline	1649	340	680	1360	
99-09-2	3-Nitroaniline	1613	340	680	1360	
88-74-4	2-Nitroaniline	2387	340	680	1360	
98-95-3	Nitrobenzene	2487	85.0	170	340	
100-02-7	4-Nitrophenol	1901	340	680	1360	
88-75-5	2-Nitrophenol	2074	85.0	170	340	
86-30-6	N-Nitrosodiphenylamine	1625	85.0	170	340	
621-64-7	N-Nitroso-di-n-propylamine	2494	85.0	170	340	Q
87-86-5	Pentachlorophenol	1655	340	680	1360	
85-01-8	Phenanthrene	2341	85.0	170	340	
108-95-2	Phenol	2014	85.0	170	340	
129-00-0	Pyrene	2915	85.0	170	340	
95-94-3	1,2,4,5-Tetrachlorobenzene	2604	85.0	170	340	
58-90-2	2,3,4,6-Tetrachlorophenol	2110	85.0	170	340	
88-06-2	2,4,6-Trichlorophenol	2162	85.0	170	340	
95-95-4	2,4,5-Trichlorophenol	2143	85.0	170	340	

SYSTEM MONITORING COMPOUND	ADDED (ug/Kg dry)	CONC (ug/Kg dry)	% REC	QC LIMITS	Q
2-Fluorobiphenyl	3400	2451	72.1	45 - 105	
2-Fluorophenol	6800	4545	66.8	35 - 105	
Nitrobenzene-d5	3400	2398	70.5	35 - 100	
Phenol-d6	6800	4487	66.0	40 - 100	
Terphenyl-d14	3400	3241	95.3	30 - 125	
2,4,6-Tribromophenol	6800	4680	68.8	35 - 125	

ANALYSIS DATA SHEET

Matrix Spike Dup

Laboratory: Empirical Laboratories, LLC SDG: 1109191

Client: Tetra Tech NUS, Inc. (T010) Project: Navy Fuel Depot CTO JM46

Matrix: Laboratory ID: 1J03009-MSD1 File ID: 919102MD.D

Sampled: Prepared: Analyzed: 10/15/11 18:51

Solids: Preparation: EXT_3546 Dilution:

Batch: 1J03009 Sequence: 1J29105 Calibration: 1236001 Instrument: MS-BNA3

CAS NO.	COMPOUND	ONC. (ug/Kg dry	DL	LOD	LOQ	Q
83-32-9	Acenaphthene	2244	85.0	170	340	
208-96-8	Acenaphthylene	2089	85.0	170	340	
98-86-2	Acetophenone	2089	85.0	170	340	
120-12-7	Anthracene	2317	85.0	170	340	S
1912-24-9	Atrazine	2250	85.0	170	340	S
100-52-7	Benzaldehyde	1737	85.0	170	340	
56-55-3	Benzo(a)anthracene	2367	85.0	170	340	S
50-32-8	Benzo(a)pyrene	2256	85.0	170	340	S
205-99-2	Benzo(b)fluoranthene	2606	85.0	170	340	S
191-24-2	Benzo(g,h,i)perylene	1882	85.0	170	340	S, Y
207-08-9	Benzo(k)fluoranthene	2525	85.0	170	340	S
92-52-4	1,1-Biphenyl	2335	85.0	170	340	
101-55-3	4-Bromophenyl-phenylether	2693	85.0	170	340	S
85-68-7	Butylbenzylphthalate	2788	85.0	170	340	S
105-60-2	Caprolactam	2003	85.0	170	340	
86-74-8	Carbazole	1989	85.0	170	340	S
59-50-7	4-Chloro-3-methylphenol	2132	85.0	170	340	
106-47-8	4-Chloroaniline	1491	85.0	170	340	
111-91-1	Bis(2-chloroethoxy)methane	2350	85.0	170	340	
111-44-4	Bis(2-chloroethyl)ether	2214	85.0	170	340	
108-60-1	2,2'-Oxybis-1-chloropropane	1883	85.0	170	340	Y
91-58-7	2-Chloronaphthalene	2493	85.0	170	340	
95-57-8	2-Chlorophenol	1845	85.0	170	340	
7005-72-3	4-Chlorophenyl phenyl ether	2526	85.0	170	340	
218-01-9	Chrysene	2427	85.0	170	340	S
53-70-3	Dibenz(a,h)anthracene	1967	85.0	170	340	S, Y
132-64-9	Dibenzofuran	2470	85.0	170	340	
84-74-2	Di-n-butylphthalate	2448	85.0	170	340	S
91-94-1	3,3'-Dichlorobenzidine	1724	85.0	170	340	S
120-83-2	2,4-Dichlorophenol	2070	85.0	170	340	
84-66-2	Diethylphthalate	2628	85.0	170	340	
105-67-9	2,4-Dimethylphenol	2083	340	680	1360	
131-11-3	Dimethyl phthalate	2626	85.0	170	340	
534-52-1	4,6-Dinitro-2-methylphenol	1688	850	1700	3400	S, I
51-28-5	2,4-Dinitrophenol		850	1700	3400	X, U
121-14-2	2,4-Dinitrotoluene	2368	85.0	170	340	
606-20-2	2,6-Dinitrotoluene	2349	85.0	170	340	
117-84-0	Di-n-octylphthalate	3361	85.0	170	340	Q, S
117-81-7	Bis(2-ethylhexyl)phthalate	2770	85.0	170	340	S
206-44-0	Fluoranthene	2145	85.0	170	340	S

ANALYSIS DATA SHEET

Matrix Spike Dup

Laboratory: Empirical Laboratories, LLC SDG: 1109191

Client: Tetra Tech NUS, Inc. (T010) Project: Navy Fuel Depot CTO JM46

Matrix: Laboratory ID: 1J03009-MSD1 File ID: 919102MD.D

Sampled: Prepared: Analyzed: 10/15/11 18:51

Solids: Preparation: EXT_3546 Dilution:

Batch: 1J03009 Sequence: 1J29105 Calibration: 1236001 Instrument: MS-BNA3

CAS NO.	COMPOUND	ONC. (ug/Kg dry	DL	LOD	LOQ	Q
86-73-7	Fluorene	2303	85.0	170	340	
118-74-1	Hexachlorobenzene	2526	85.0	170	340	S
87-68-3	Hexachlorobutadiene	3190	85.0	170	340	Q, X
77-47-4	Hexachlorocyclopentadiene	1615	85.0	170	340	
67-72-1	Hexachloroethane	2181	85.0	170	340	
193-39-5	Indeno(1,2,3-cd)pyrene	1991	85.0	170	340	S, Y
78-59-1	Isophorone	2170	85.0	170	340	
90-12-0	1-Methylnaphthalene	2091	85.0	170	340	
91-57-6	2-Methylnaphthalene	2255	85.0	170	340	
95-48-7	2-Methylphenol	1847	85.0	170	340	
106-44-5	4-Methylphenol	1877	85.0	170	340	
91-20-3	Naphthalene	2330	85.0	170	340	
100-01-6	4-Nitroaniline	1574	340	680	1360	
99-09-2	3-Nitroaniline	1448	340	680	1360	
88-74-4	2-Nitroaniline	2338	340	680	1360	
98-95-3	Nitrobenzene	2567	85.0	170	340	
100-02-7	4-Nitrophenol	1820	340	680	1360	
88-75-5	2-Nitrophenol	2071	85.0	170	340	
86-30-6	N-Nitrosodiphenylamine	1700	85.0	170	340	S
621-64-7	N-Nitroso-di-n-propylamine	2304	85.0	170	340	Q
87-86-5	Pentachlorophenol	1682	340	680	1360	S
85-01-8	Phenanthrene	2421	85.0	170	340	S
108-95-2	Phenol	1896	85.0	170	340	
129-00-0	Pyrene	2700	85.0	170	340	S
95-94-3	1,2,4,5-Tetrachlorobenzene	2514	85.0	170	340	
58-90-2	2,3,4,6-Tetrachlorophenol	2039	85.0	170	340	
88-06-2	2,4,6-Trichlorophenol	2283	85.0	170	340	
95-95-4	2,4,5-Trichlorophenol	2218	85.0	170	340	

SYSTEM MONITORING COMPOUND	ADDED (ug/Kg dry)	CONC (ug/Kg dry)	% REC	QC LIMITS	Q
2-Fluorobiphenyl	3400	2598	76.4	45 - 105	
2-Fluorophenol	6800	4424	65.1	35 - 105	
Nitrobenzene-d5	3400	2482	73.0	35 - 100	
Phenol-d6	6800	4165	61.2	40 - 100	
Terphenyl-d14	3400	2934	86.3	30 - 125	S
2,4,6-Tribromophenol	6800	4842	71.2	35 - 125	S

HOLDING TIME SUMMARY

SW8270C

Laboratory: Empirical Laboratories, LLC SDG: 1109191

Client: Tetra Tech NUS, Inc. (T010) Project: Navy Fuel Depot CTO JM46

Sample Name	Date Collected	Date Received	Date Prepared	Days to Prep	Max Days to Prep	Date Analyzed	Days to Analysis	Max Days to Analysis	Q
FLC-4-SS01-0006-092211	09/22/11 08:45	09/24/11 09:00	10/04/11 11:00	12.09	14.00	10/15/11 01:33	10.61	40.00	
FLC-4-SS01-0624-092211	09/22/11 09:00	09/24/11 09:00	10/04/11 11:00	12.08	14.00	10/15/11 02:12	10.63	40.00	
FLC-4-SB01-0204-092211	09/22/11 09:25	09/24/11 09:00	10/04/11 11:00	12.07	14.00	10/15/11 14:52	11.16	40.00	
FLC-4-SS02-0006-092211	09/22/11 10:05	09/24/11 09:00	10/04/11 11:00	12.04	14.00	10/15/11 20:10	11.38	40.00	
FLC-4-SS02-0624-092211	09/22/11 10:20	09/24/11 09:00	10/04/11 11:00	12.03	14.00	10/15/11 03:32	10.69	40.00	
FLC-4-SB02-0204-092211	09/22/11 10:30	09/24/11 09:00	10/04/11 11:00	12.02	14.00	10/15/11 19:30	11.35	40.00	
FLC-4-RB01-092211	09/22/11 11:15	09/24/11 09:00	09/27/11 12:00	5.03	7.00	10/08/11 13:56	11.08	40.00	

Data for SW8270C
Supporting Raw Data / Logs

Comment: epa8270c
Operator: MEC
Data Path: C:\HPCHEM\1\DATA\042911b3\
Pre-Seq Cmd:
Post-Seq Cmd:

7696

5/2/4

Method Sections To Run
(X) Full Method
( ) Reprocessing Only

On A Barcode Mismatch
(X) Inject Anyway
( ) Don't Inject

Line	Type	Vial	DataFile	Method	Sample Name
1	DFTPP	1	SEQ-TUN1	DFTPPBN3	DF0429B1;;;;;;~~11D0633~~ 11D0663
2	Calibration	2	SEQ-CAL1	IXBN3	CAL5.0PPM;;;;;;11D0216
3	Calibration	3	SEQ-CAL2	IXBN3	CAL10.0PPM;;;;;;11D0217
4	Calibration	4	SEQ-CAL3	IXBN3	CAL20.0PPM;;;;;;11D0218
5	Calibration	5	SEQ-CAL4	IXBN3	CAL40.0PPM;;;;;;11D0219
6	Calibration	6	SEQ-CAL5	IXBN3	CAL50.0PPM;;;;;;11D0220
7	Calibration	7	SEQ-CAL6	IXBN3	CAL60.0PPM;;;;;;11D0221
8	Calibration	8	SEQ-CAL7	IXBN3	CAL80.0PPM;;;;;;11D0222
9	Calibration	9	SEQ-CAL8	IXBN3	CAL100.0PPM;;;;;;11D0223
10	Calibration	10	SEQ-CAL9	IXBN3	CAL5.0PPM;;;;;;11A0534
11	Calibration	11	SEQ-CALA	IXBN3	CAL10.0PPM;;;;;;11A0537
12	Calibration	12	SEQ-CALB	IXBN3	CAL20.0PPM;;;;;;11A0538
13	Calibration	13	SEQ-CALC	IXBN3	CAL40.0PPM;;;;;;11A0539
14	Calibration	14	SEQ-CALD	IXBN3	CAL50.0PPM;;;;;;11A0540
15	Calibration	15	SEQ-CALE	IXBN3	CAL60.0PPM;;;;;;11A0541
16	Calibration	16	SEQ-CALF	IXBN3	CAL80.0PPM;;;;;;11A0542
17	Calibration	17	SEQ-CALG	IXBN3	CAL100.0PPM;;;;;;11A0543
18	DFTPP	1	SEQ-TUN2	DFTPPBN3	DF0429B2;;;;;;~~11D0633~~ 11D0663

Comment: epa8270c
Operator: MEC
Data Path: C:\HPCHEM\1\DATA\043011b3\
Pre-Seq Cmd:
Post-Seq Cmd:

7697

5/1

Method Sections To Run
(X) Full Method
( ) Reprocessing Only

On A Barcode Mismatch
(X) Inject Anyway
( ) Don't Inject

Line	Type	Vial	DataFile	Method	Sample Name
1	DFTPP	1	SEQ-TUN1	DFTPPBN3	DF0430B1;;;;;~~11D0633~~ 11D0663
2	Sample	2	SEQ-ICV1	IXBN3	ICV-50PPM;;;;;;11A0288
3	Sample	3	SEQ-ICV2	IXBN3	ICV-50PPM;;;;;;11A0290
4	Sample	4	SEQ-ICV3	IXBN3	ICV-50PPM;;;;;;10L0768 } Not needed.
5	Sample	5	SEQ-ICV4	IXBN3	ICV-50PPM;;;;;;11D0227 }
6	Sample	6	SEQ-ICV5	IXBN3	ICV-50PPM;;;;;;11D0228

Last Modified: Sun May 01 16:36:02 2011

Comment: epa8270c
Operator: MEC
Data Path: C:\HPCHEM\1\DATA\050211b3\
Pre-Seq Cmd:
Post-Seq Cmd:

7699

5/3/11

Method Sections To Run
(X) Full Method
( ) Reprocessing Only

On A Barcode Mismatch
(X) Inject Anyway
( ) Don't Inject

Line	Type	Vial	DataFile	Method	Sample Name
1	DFTPP	1	SEQ-TUN1	DFTPPBN3	DF0502B1;;;;;;11D0663
2	Calibration	2	SEQ-ICV4	IXBN3	ICV50PPM;;;;;;11E0016
3	DailyCal	3	SEQ-CCV1	IXBN3	CCV50PPM;;;;;;11E0020
4	Blank	4	D28006B1	IXBN3	1D28006-BLK1;;1000;1000;UG/L;
5	Spike	5	D28006L1	IXBN3	1D28006-BS1;;1000;1000;UG/L;;
6	Sample	6	0424216D	IXBN3	1104242-16;10;1000;1000;UG/L;
7	Sample	7	0428002	IXBN3	1104280-02;;1000;1000;UG/L;;2
8	Sample	8	0428003	IXBN3	1104280-03;;1000;1000;UG/L;;2
9	Sample	9	0428004	IXBN3	1104280-04;;1000;1000;UG/L;;2
10	Sample	10	0428005	IXBN3	1104280-05;;1000;1000;UG/L;;2
11	Spike	11	0428005M	IXBN3	1D28006-MS1;;1000;1000;UG/L;;
12	Duplicate	12	0428005S	IXBN3	1D28006-MSD1;;1000;1000;UG/L;
13	Sample	13	0428006	IXBN3	1104280-06;;1000;1000;UG/L;;2
14	Sample	14	0428101	IXBN3	1104281-01;;1000;1000;UG/L;;2
15	Sample	15	0428102	IXBN3	1104281-02;;1000;1000;UG/L;;2
16	Sample	16	0428103	IXBN3	1104281-03;;1000;1000;UG/L;;2
17	Sample	17	0428104	IXBN3	1104281-04;;1000;1000;UG/L;;2
18	Sample	18	0428105	IXBN3	1104281-05;;1000;1000;UG/L;;2
19	Sample	19	0428106	IXBN3	1104281-06;;1000;1000;UG/L;;2
20	Sample	20	0428107	IXBN3	1104281-07;;1000;1000;UG/L;;2
21	Spike	21	0428107M	IXBN3	1D28006-MS2;;1000;1000;UG/L;;
22	Duplicate	22	0428107S	IXBN3	1D28006-MSD2;;1000;1000;UG/L;
23	DFTPP	1	SEQ-TUN2	DFTPPBN3	DF0502B2;;;;;;11D0663
24	DailyCal	3	SEQ-CCV2	IXBN3	CCV50PPM;;;;;;11E0020
25	Sample	23	0428108	IXBN3	1104281-08;;1000;1000;UG/L;;2
26	Sample	24	0428109	IXBN3	1104281-09;;1000;1000;UG/L;;2
27	Sample	25	0428110	IXBN3	1104281-10;;1000;1000;UG/L;;2
28	Sample	26	0428111	IXBN3	1104281-11;;1000;1000;UG/L;;2
29	Sample	27	0428112	IXBN3	1104281-12;;1000;1000;UG/L;;2
30	Sample	28	0428601	IXBN3	1104286-01;;1000;1000;UG/L;;2
31	Sample	29	0428603	IXBN3	1104286-03;;1000;1000;UG/L;;2
32	Sample	30	0428605	IXBN3	1104286-05;;1000;1000;UG/L;;2

Last Modified: Tue May 03 09:35:26 2011

Data File: \\ELABNSH05\TARGET\chem\bna3.i\042911b3.b\SEQ-TUN1.D

Date : 29-APR-2011 17:21

Client ID: 50ppm DFTPP

Instrument: bna3.i

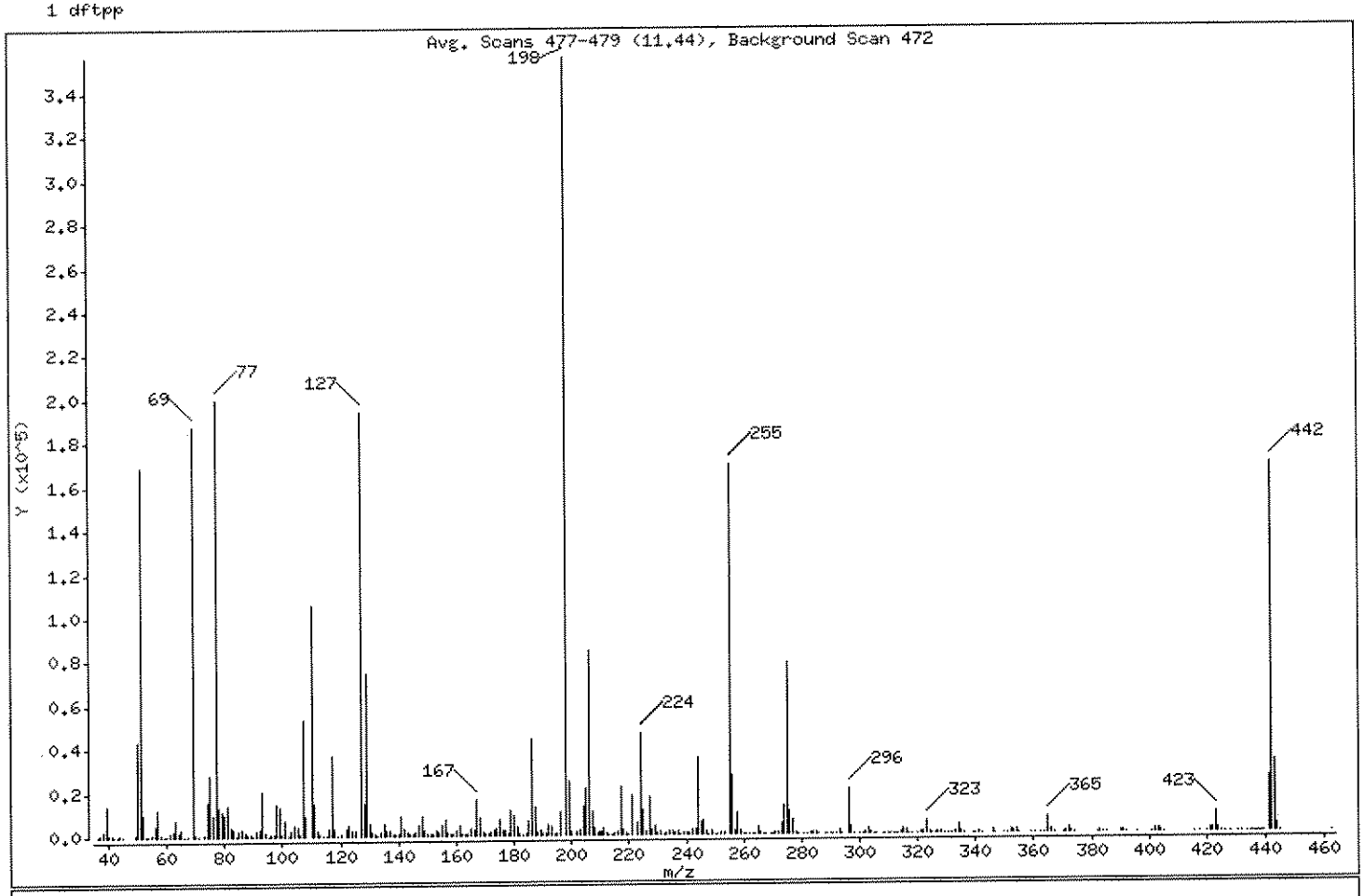
Sample Info: DF0429B1;;;;;;11D0633

Operator: MEC

Column phase: DB5-MS

Column diameter: 0.25

1 dftpp



m/e	ION ABUNDANCE CRITERIA	% RELATIVE ABUNDANCE
198	Base Peak, 100% relative abundance	100.00
51	30.00 - 60.00% of mass 198	47.29
68	Less than 2.00% of mass 69	0.00 (0.00)
69	Mass 69 relative abundance	52.69
70	Less than 2.00% of mass 69	0.26 (0.49)
127	40.00 - 60.00% of mass 198	54.60
197	Less than 1.00% of mass 198	0.00
199	5.00 - 9.00% of mass 198	6.87
275	10.00 - 30.00% of mass 198	21.98
365	Greater than 1.00% of mass 198	2.10
441	Present, but less than mass 443	7.08
442	Greater than 40.00% of mass 198	47.36
443	17.00 - 23.00% of mass 442	9.10 (19.21)

4/29/11
GLQ
5/6/11

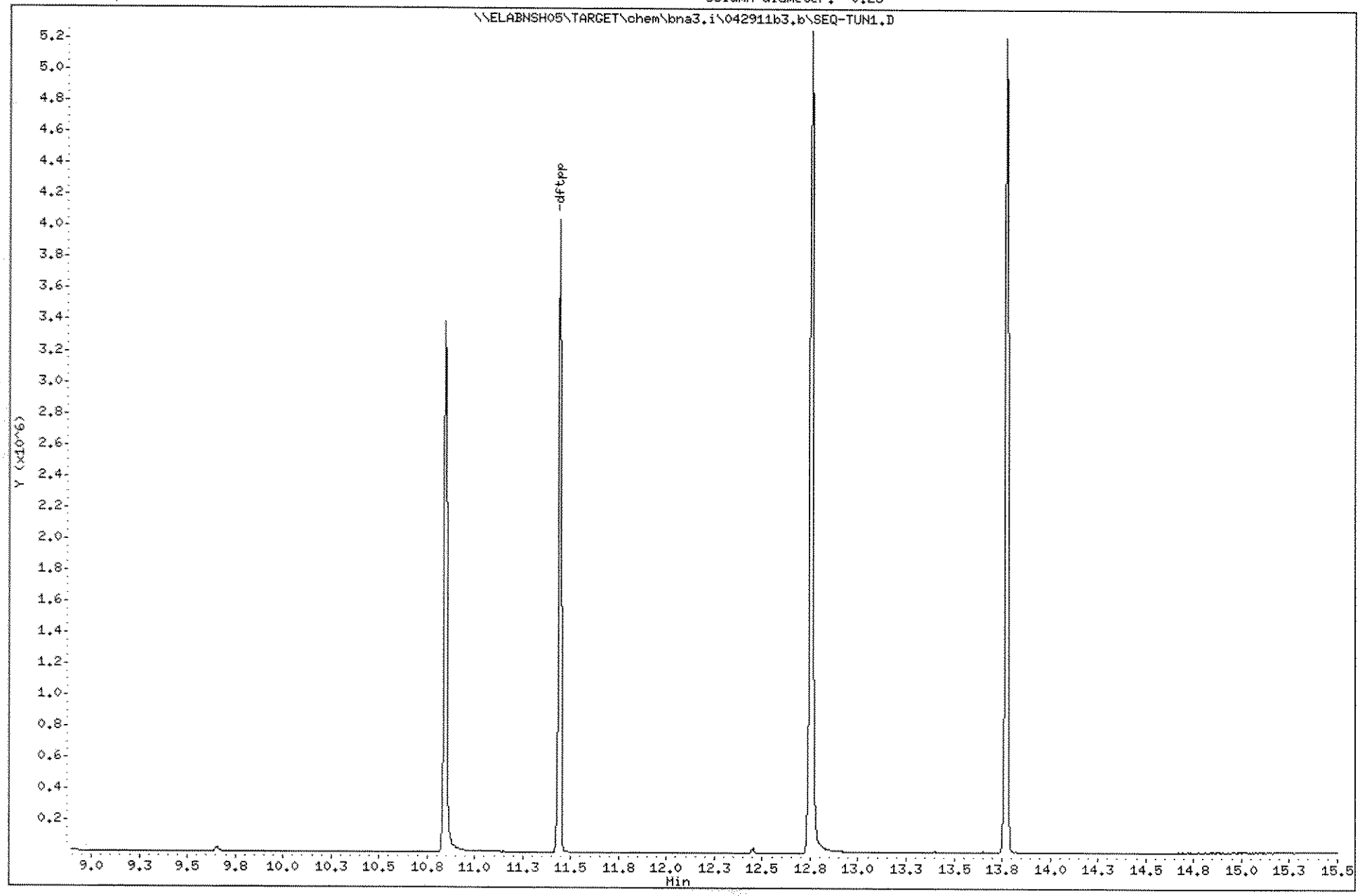
Data File: \\ELABNSH05\TARGET\chem\bna3.i\042911b3.b\SEQ-TUN1.D
Date : 29-APR-2011 17:21
Client ID: 50ppm DFTPP
Sample Info: DF0429B1;;;;;;11D0633

Instrument: bna3.i

Operator: MEC

Column phase: DB5-MS

Column diameter: 0.25



590

1109191

Data File: \\ELABNSH05\TARGET\chem\bna3.i\042911b3.b\SEQ-TUN1.D

Date : 29-APR-2011 17:21

Client ID: 50ppm DFTPP

Instrument: bna3.i

Sample Info: DF0429B1;;;;;;11D0633

Operator: MEC

Column phase: DB5-MS

Column diameter: 0.25

Data File: SEQ-TUN1.D

Spectrum: Avg. Scans 477-479 (11.44), Background Scan 472

Location of Maximum: 198.00

Number of points: 349

m/z	Y	m/z	Y	m/z	Y	m/z	Y
36.00	311	132.10	617	221.00	17672	315.00	2331
37.00	730	132.90	347	223.00	5867	316.00	1398
38.10	2138	134.00	1814	224.00	46848	316.90	376
39.10	13754	135.00	5917	225.00	11374	317.90	57
40.10	1026	136.00	2491	226.00	1275	320.10	113
41.10	419	137.00	2771	227.00	17568	321.00	849
42.00	138	138.00	672	228.00	2649	322.00	501
43.10	69	139.00	478	229.00	4219	323.10	6006
44.00	636	140.10	970	230.00	497	324.00	1185
45.00	350	141.00	9031	231.00	1684	324.70	74
49.10	1150	142.00	2882	232.00	174	326.00	163
50.10	43320	143.10	1861	232.90	427	327.00	980
51.10	168512	144.00	466	234.00	1447	328.00	663
52.10	9635	145.10	436	235.00	1353	329.20	118
53.10	340	146.00	1497	236.00	672	330.20	87
53.90	87	147.10	4555	237.00	1697	332.00	370
55.00	724	148.00	9408	238.10	185	333.00	787
56.00	5059	149.00	2052	239.00	470	334.00	4102
57.00	12465	149.90	629	240.00	710	335.00	1086
58.00	486	151.10	833	240.90	925	336.10	162
59.00	131	152.10	508	242.00	2189	338.90	167
59.90	194	153.00	2514	243.10	2845	340.00	100
61.00	2015	154.00	1914	244.10	35136	341.10	773
62.10	2279	155.00	4843	245.10	5380	342.00	251
63.10	7020	156.00	7400	246.00	6844	346.00	1372
64.10	1272	157.00	1391	247.00	1399	346.90	161
65.10	3485	158.00	1104	248.00	392	350.00	206
66.00	176	159.00	1102	249.00	1477	350.90	127
67.10	186	160.00	2725	250.00	139	352.00	1846
69.00	187776	161.00	4546	251.00	266	353.00	1086
70.00	924	162.00	1069	252.00	482	354.00	1500
71.20	69	163.00	485	253.10	867	355.00	406
73.00	994	164.00	649	255.00	169984	359.00	152
74.10	15909	165.00	2988	256.00	26992	360.10	51
75.00	27696	166.00	2310	257.00	1760	362.10	51

Data File: \\ELABNSH05\TARGET\chem\bna3.i\042911b3.b\SEQ-TUN1.D

Date : 29-APR-2011 17:21

Client ID: 50ppm DFTPP

Instrument: bna3.i

Sample Info: DF0429B1;;;;;;11D0633

Operator: MEC

Column phase: DB5-MS

Column diameter: 0.25

Data File: SEQ-TUN1.D
Spectrum: Avg. Scans 477-479 (11.44), Background Scan 472
Location of Maximum: 198.00
Number of points: 349

m/z	Y	m/z	Y	m/z	Y	m/z	Y
76.10	9511	167.00	16584	258.00	9899	363.50	147
77.10	199808	168.00	7986	259.00	1611	365.00	7497
78.10	12726	169.10	1546	259.90	355	366.00	1389
79.00	11769	170.00	411	261.10	387	366.90	120
80.00	9836	171.10	877	261.90	103	370.00	160
81.00	13538	172.00	1400	263.00	87	371.00	656
82.00	3984	173.00	2202	263.90	358	372.00	2856
83.00	3011	174.00	3250	265.00	3670	373.00	594
84.00	210	175.00	7176	266.00	771	374.00	129
85.00	2253	176.00	2062	267.10	152	382.00	84
86.00	3545	177.00	2776	267.80	61	382.90	590
87.00	1633	178.10	1090	269.30	119	384.00	237
88.00	593	179.00	11561	270.00	305	385.10	67
89.10	412	180.00	8665	271.00	480	390.00	420
89.90	59	181.00	3961	271.90	498	391.00	420
91.00	2832	181.90	573	273.00	5025	391.90	263
92.10	3329	182.90	303	274.00	13176	396.10	57
93.00	20232	184.00	1044	275.00	78320	400.80	240
94.00	1644	185.10	6857	276.00	10914	402.00	1407
95.10	310	186.00	44464	277.00	6817	403.00	1524
96.10	720	187.10	13389	278.00	1184	404.00	537
97.00	513	188.00	1321	279.00	374	404.90	50
98.00	14457	189.00	2753	280.80	67	416.00	135
99.00	12881	190.00	557	281.90	95	417.60	83
100.00	1114	191.00	1213	283.10	740	419.80	102
101.00	7228	192.00	4558	284.00	483	421.10	1347
102.00	337	193.00	3777	285.00	893	422.00	1234
103.00	2154	194.10	1168	286.00	367	423.00	9393
104.00	4820	195.10	949	288.00	88	424.00	1976
105.00	4128	196.00	10496	289.00	394	425.00	385
106.00	1152	198.00	356352	290.00	176	426.10	66
107.00	53112	199.00	24488	290.90	206	428.10	102
108.00	9032	200.00	1871	292.00	218	430.90	158
110.00	106024	201.50	1686	293.00	1443	431.60	106
111.00	14851	203.00	2265	293.90	298	432.00	103

Data File: \\ELABNSH05\TARGET\chem\bna3.i\042911b3.b\SEQ-TUN1.D

Date : 29-APR-2011 17:21

Client ID: 50ppm DFTPP

Instrument: bna3.i

Sample Info: DF0429B1;;;;;;11D0633

Operator: MEC

Column phase: DB5-MS

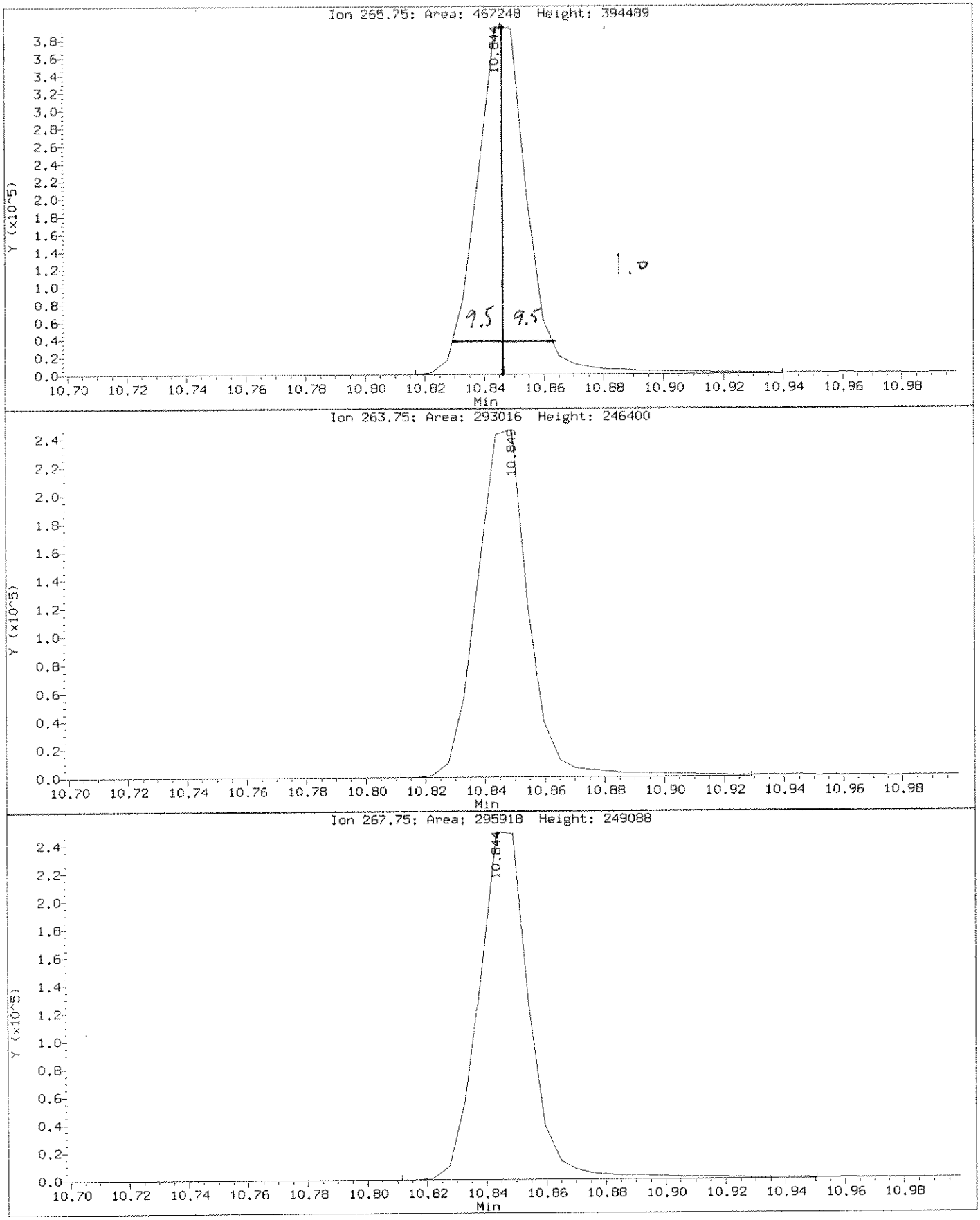
Column diameter: 0.25

Data File: SEQ-TUN1.D
Spectrum: Avg. Scans 477-479 (11.44), Background Scan 472
Location of Maximum: 198.00
Number of points: 349

m/z	Y	m/z	Y	m/z	Y	m/z	Y
112.00	2055	204.00	12891	296.00	20496	433.70	147
113.00	584	205.00	21680	297.00	2972	434.70	152
114.00	262	206.00	84328	298.00	283	435.40	211
115.10	181	207.10	11030	299.90	129	436.10	138
116.10	2948	208.10	3014	301.00	403	437.00	200
117.00	36856	209.00	823	302.00	435	437.60	186
118.00	2922	210.10	1362	303.00	2600	438.20	239
119.10	270	210.40	1365	304.00	573	438.70	101
120.00	789	211.10	3346	305.00	241	439.50	211
122.00	3000	212.00	555	305.80	54	441.00	25216
123.00	5163	213.00	292	308.00	305	442.00	168768
124.00	2482	214.20	82	309.00	205	443.00	32424
125.00	2445	215.00	939	310.00	232	444.00	3404
127.00	194560	216.00	1728	310.80	86	444.90	138
128.00	14908	217.00	22056	312.00	50	462.60	84
129.00	74816	218.00	2848	312.20	53		
130.00	5905	219.10	523	312.80	205		
130.90	1336	219.80	338	314.00	913		

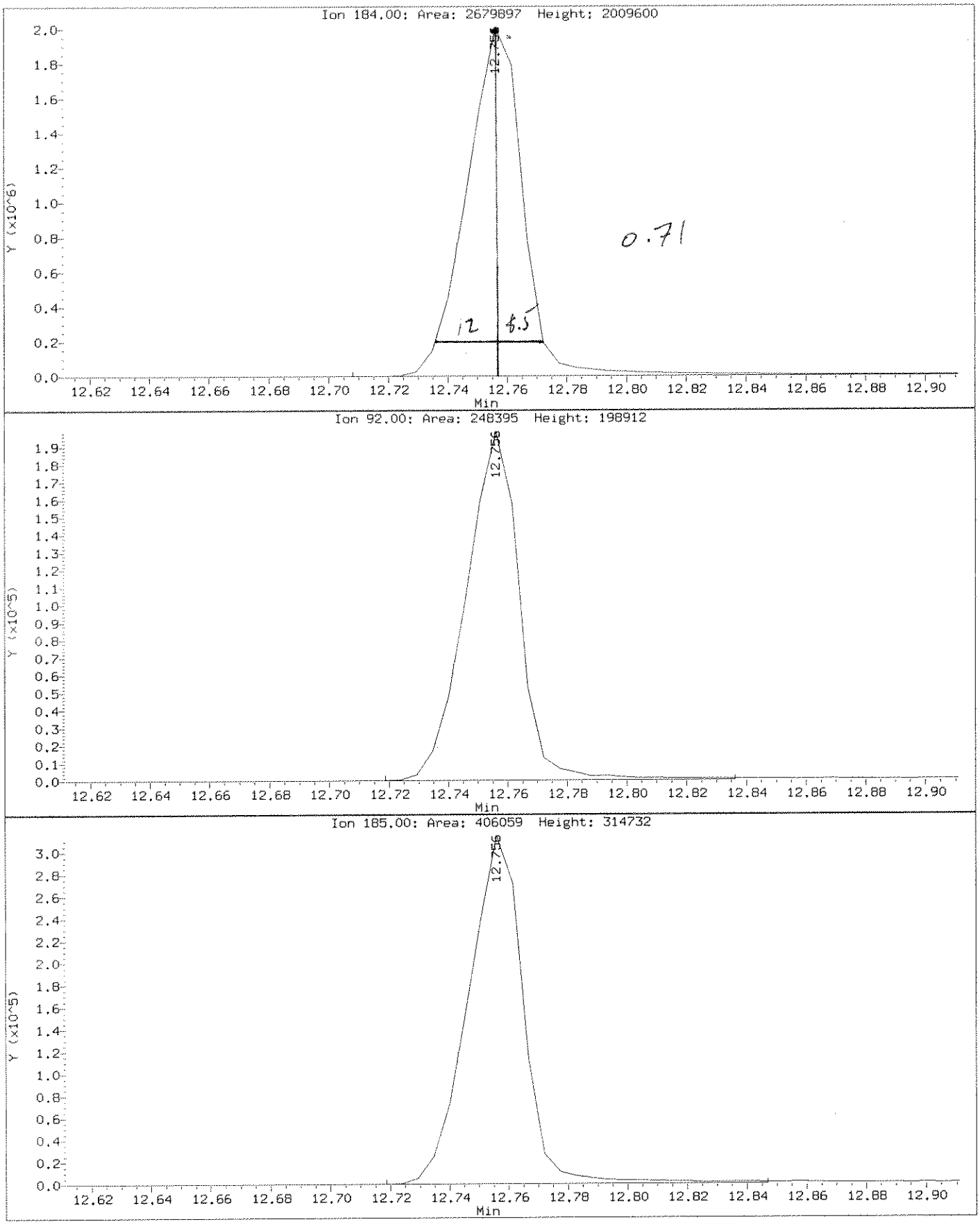
Data File: \\ELABNSH05\TARGET\chem\bna3.i\042911b3.b\SEQ-TUN1ex.D
Injection Date: 29-APR-2011 17:21
Instrument: bna3.i
Client Sample ID: 50ppm DFTPP

Compound: Pentachlorophenol
CAS Number: 87-86-5



Data File: \\ELABNSHO5\TARGET\chem\bna3.i\042911b3.b\SEQ-TUN1ex.D
Injection Date: 29-APR-2011 17:21
Instrument: bna3.i
Client Sample ID: 50ppm DFTPP

Compound: Benzidine
CAS Number: 92-87-5



Data File: \\ELABNSH05\TARGET\chem\bna3.i\042911b3.b\SEQ-TUN1ex.D
Report Date: 29-Apr-2011 17:41

Laboratory Name

Data file : \\ELABNSH05\TARGET\chem\bna3.i\042911b3.b\SEQ-TUN1ex.D
Lab Smp Id: SEQ-TUN1 Client Smp ID: 50ppm DFTPP
Inj Date : 29-APR-2011 17:21 MS Autotune Date: 07-SEP-2010 05:33
Operator : MEC Inst ID: bna3.i
Smp Info : DF0429B1;;;;;;11D0633
Misc Info : ;;;;;;;all.sub;
Comment :
Method : \\ELABNSH05\TARGET\chem\bna3.i\042911b3.b\dftppbn3ex.m
Meth Date : 29-Apr-2011 16:48 mcobb Quant Type: ESTD
Cal Date : Cal File:
Als bottle: 1 QC Sample: DFTPP
Dil Factor: 1.00000
Integrator: HP RTE Compound Sublist: all.sub
Target Version: 4.04
Processing Host: TARGET09_VM

Compounds	QUANT SIG MASS	RT	EXP RT	DLT RT	RESPONSE	CONCENTRATIONS ON-COLUMN (ng/ul)	FINAL (ng/ul)
1 Pentachlorophenol	266	10.843	10.849	-0.006	467248		
2 Benzidine	184	12.756	12.761	-0.005	2679897		
4 4,4'-DDD	235	13.402	13.402	0.000	2160		
5 4,4'-DDT	235	13.771	13.776	-0.005	1087343		

DDT breakdown = $\frac{2160}{1087343 + 2160} \times 100 =$ ~~1.98%~~ 0.199 %

(1089503)

Data File: \\ELABNSH05\TARGET\chem\bna3.i\043011b3.b\SEQ-TUN1.D

Date : 30-APR-2011 14:42

Client ID: 50ppm DFTPP

Instrument: bna3.i

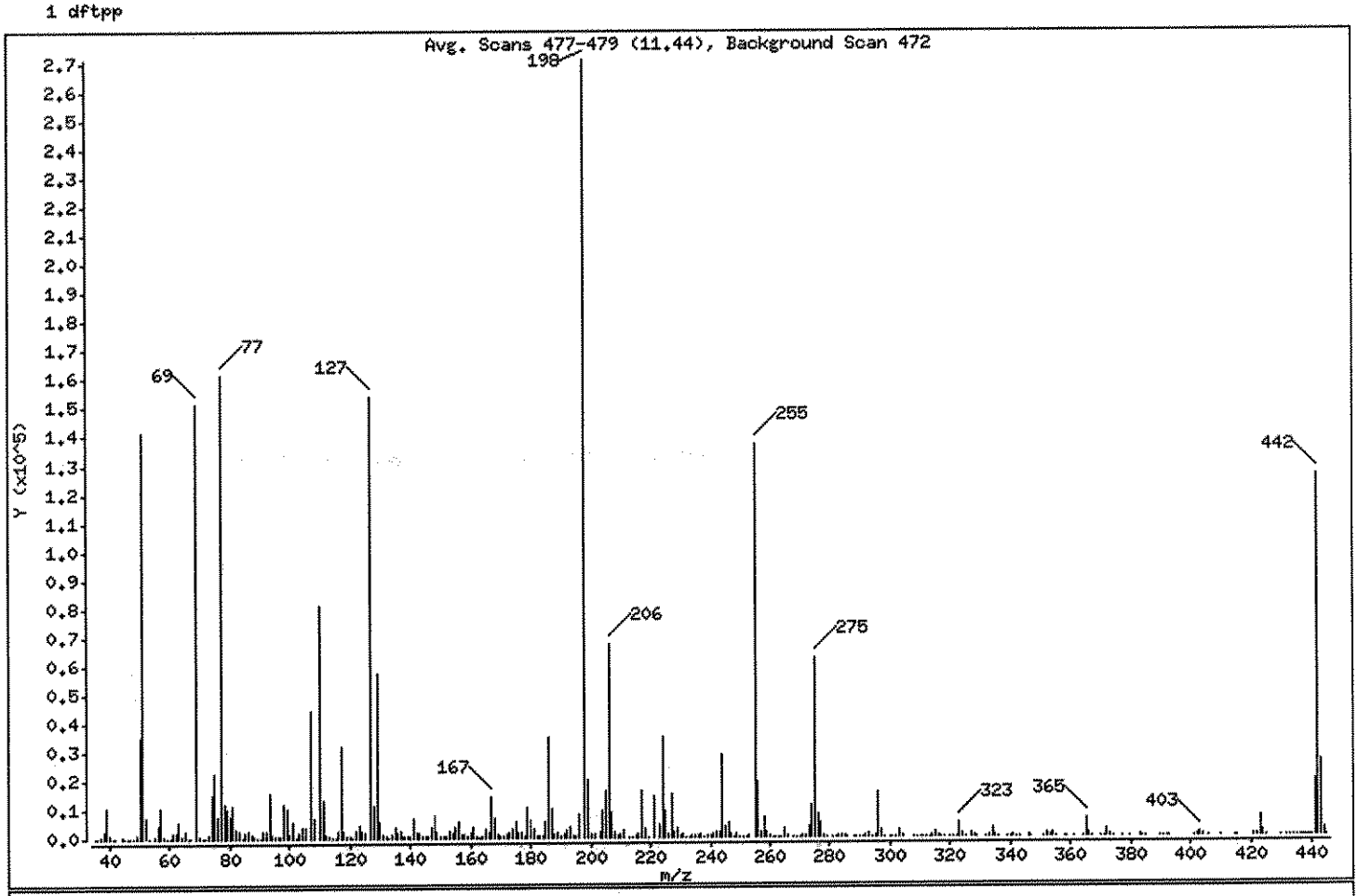
Sample Info: DF0430B1;;;;;;11D0633

Operator: MEC

Column phase: DB5-MS

Column diameter: 0.25

1 dftpp



m/e	ION ABUNDANCE CRITERIA	% RELATIVE ABUNDANCE
198	Base Peak, 100% relative abundance	100.00
51	30.00 - 60.00% of mass 198	52.24
68	Less than 2.00% of mass 69	0.00 (0.00)
69	Mass 69 relative abundance	55.80
70	Less than 2.00% of mass 69	0.23 (0.42)
127	40.00 - 60.00% of mass 198	56.84
197	Less than 1.00% of mass 198	0.00
199	5.00 - 9.00% of mass 198	7.25
275	10.00 - 30.00% of mass 198	22.93
365	Greater than 1.00% of mass 198	2.34
441	Present, but less than mass 443	7.22
442	Greater than 40.00% of mass 198	46.45
443	17.00 - 23.00% of mass 442	9.71 (20.90)

5/1/1

GLQ
5/6/11

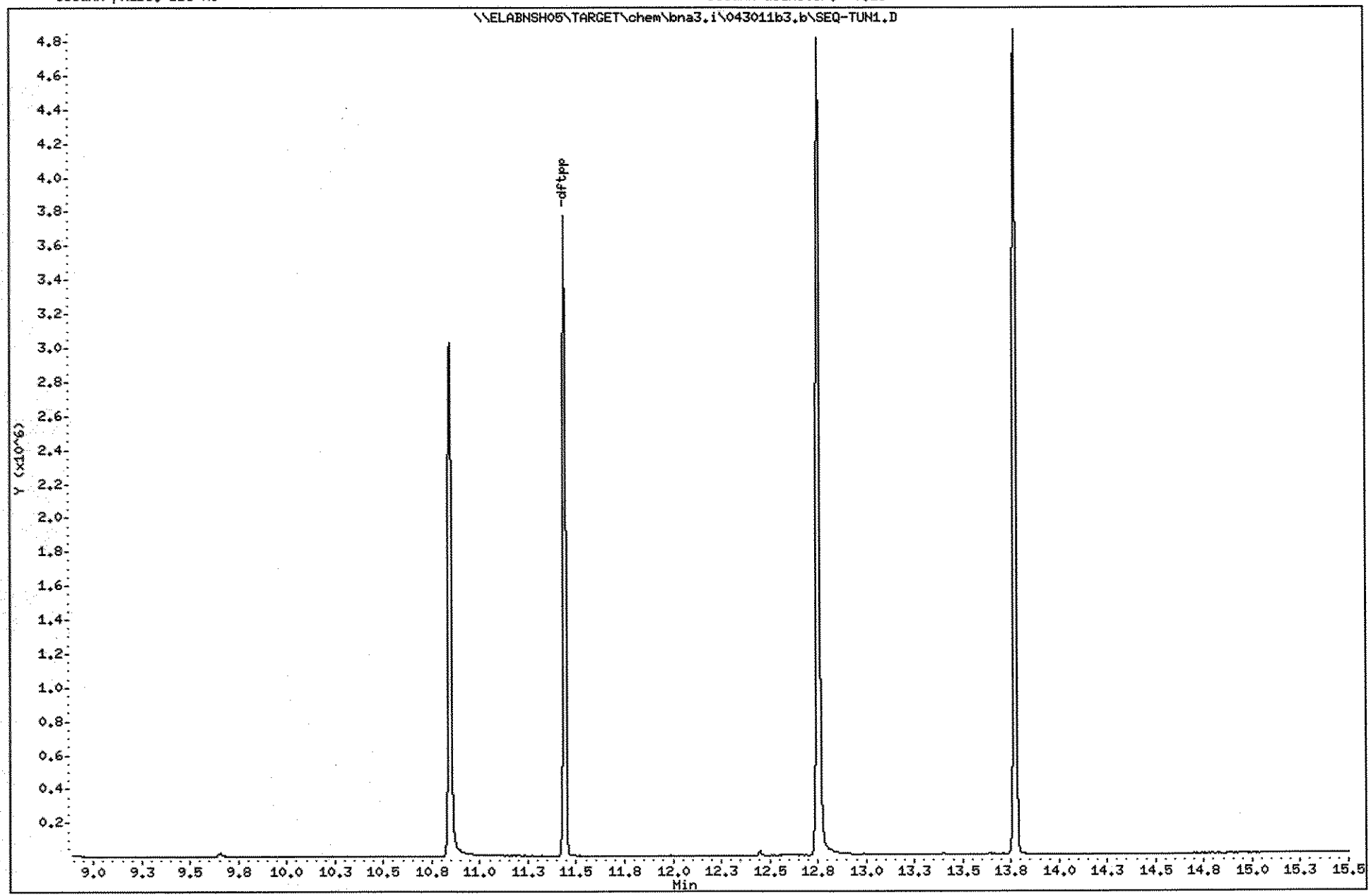
Data File: \\ELABNSH05\TARGET\chem\bna3.i\043011b3.b\SEQ-TUN1.D
Date : 30-APR-2011 14:42
Client ID: 50ppm DFTPP
Sample Info: DF0430B1;;;;;;11D0633

Instrument: bna3.i

Operator: MEC

Column phase: DB5-MS

Column diameter: 0.25



598

1109191

Data File: \\ELABNSH05\TARGET\chem\bna3.i\043011b3.b\SEQ-TUN1.D

Date : 30-APR-2011 14:42

Client ID: 50ppm DFTPP

Instrument: bna3.i

Sample Info: DF0430B1;;;;;;11D0633

Operator: MEC

Column phase: DB5-MS

Column diameter: 0.25

Data File: SEQ-TUN1.D
Spectrum: Avg. Scans 477-479 (11.44), Background Scan 472
Location of Maximum: 198.00
Number of points: 347

m/z	Y	m/z	Y	m/z	Y	m/z	Y
35.10	144	128.00	11351	216.00	1288	312.10	101
36.10	229	129.00	57616	217.00	16176	313.10	160
37.10	665	130.00	5571	218.00	2843	314.00	599
38.10	2331	131.00	1050	219.20	193	315.00	1692
39.10	10610	131.90	437	221.00	14573	316.00	869
40.00	1142	132.80	302	223.00	4255	317.10	191
41.10	218	134.00	1387	224.00	34896	317.90	65
42.10	99	135.00	3790	225.00	9366	319.90	91
44.00	850	136.00	1709	226.00	1129	320.90	285
44.90	298	137.00	2186	227.00	14708	321.90	216
46.00	94	137.70	379	228.00	2102	323.00	5239
46.90	94	138.00	386	229.00	3194	324.00	1034
47.90	132	139.00	450	230.00	444	324.90	129
49.00	1051	140.00	743	231.00	1445	327.00	953
50.10	35080	141.00	6768	232.00	290	328.00	442
51.10	141696	142.00	2049	233.00	213	329.00	160
52.10	6998	143.00	1585	234.00	792	331.90	309
53.10	279	144.00	525	235.00	860	333.00	412
55.00	716	145.00	516	235.90	354	334.00	3088
56.00	4164	146.10	903	237.00	964	335.00	709
57.00	10538	147.00	3462	238.00	213	335.90	123
58.00	419	148.00	7770	239.00	458	338.90	228
59.10	101	149.00	1607	240.00	442	339.90	161
60.10	77	150.00	581	241.00	948	341.00	648
61.00	1693	151.10	893	242.00	1754	341.90	175
62.10	1718	151.90	423	243.10	1712	343.10	53
63.00	5310	153.00	2246	244.00	28648	346.00	900
64.10	841	154.00	1793	245.00	3956	346.90	148
65.10	2679	155.00	3710	246.00	5086	351.10	89
66.10	188	156.00	5417	247.00	1197	352.00	1212
66.90	94	157.00	968	248.00	281	353.00	933
69.00	151360	158.00	1220	248.90	1095	354.00	1452
69.90	635	159.00	840	250.00	258	354.80	262
71.10	77	160.00	1977	251.10	281	355.00	257
72.00	95	161.00	3434	252.00	200	357.80	68

Data File: \\ELABNSH05\TARGET\chem\bna3.i\043011b3.b\SEQ-TUN1.D

Date : 30-APR-2011 14:42

Client ID: 50ppm DFTPP

Instrument: bna3.i

Sample Info: DF0430B1;;;;;;11D0633

Operator: MEC

Column phase: DB5-MS

Column diameter: 0.25

Data File: SEQ-TUN1.D

Spectrum: Avg. Scans 477-479 (11.44), Background Scan 472

Location of Maximum: 198.00

Number of points: 347

m/z	Y	m/z	Y	m/z	Y	m/z	Y
73.00	1115	162.00	904	253.10	751	358.80	121
74.00	15066	162.80	209	255.00	137216	361.10	57
75.00	22720	163.10	154	256.00	19576	363.90	105
76.10	7617	164.00	335	257.00	1564	365.00	6349
77.10	161472	165.00	2833	258.00	7152	366.00	1122
78.10	11758	166.00	1807	259.00	1171	367.00	70
79.00	9738	167.00	14635	259.90	323	370.00	237
80.00	7733	168.00	6906	261.00	182	371.10	246
81.00	10913	169.00	1363	261.90	99	372.00	2263
82.00	2836	169.90	503	263.30	154	373.00	580
83.00	2615	171.10	553	263.90	298	374.20	71
84.10	221	172.00	1443	265.00	3126	376.90	117
85.00	2019	173.00	1647	266.00	543	379.80	55
86.00	2740	174.00	2855	267.90	217	383.00	628
87.00	1241	175.00	5318	269.10	114	384.00	106
87.90	405	176.00	1944	269.90	84	384.90	68
89.00	217	177.00	2069	271.00	429	390.00	270
90.20	70	178.00	819	271.90	362	391.00	154
91.00	2325	179.00	10336	273.00	3820	392.00	142
92.00	2511	180.00	6385	274.00	11083	392.70	93
93.00	15682	181.00	3373	275.00	62184	400.90	130
94.00	1369	182.10	565	276.00	7883	402.00	840
94.90	377	182.90	507	277.00	4904	403.00	1025
96.00	866	184.00	896	278.00	886	404.00	383
97.00	406	185.00	5480	279.00	167	406.10	56
98.00	11991	186.00	34744	281.00	79	410.00	60
99.00	9771	187.00	9866	281.90	131	414.90	131
100.00	1054	188.00	1193	283.00	577	415.70	53
101.00	5427	189.00	2105	284.00	379	421.00	925
102.10	209	189.90	368	285.00	916	421.90	844
103.00	1582	191.00	1203	286.00	189	423.00	6806
104.00	3457	192.00	2736	287.90	120	424.00	1583
105.00	3558	193.00	3723	289.00	309	424.90	114
107.00	44536	194.00	726	290.10	168	429.50	52
108.00	6929	194.90	713	291.00	175	431.50	57

Data File: \\ELABNSH05\TARGET\chem\bna3.i\043011b3.b\SEQ-TUN1.D

Date : 30-APR-2011 14:42

Client ID: 50ppm DFTPP

Instrument: bna3.i

Sample Info: DF0430B1;;;;;;11D0633

Operator: MEC

Column phase: DB5-MS

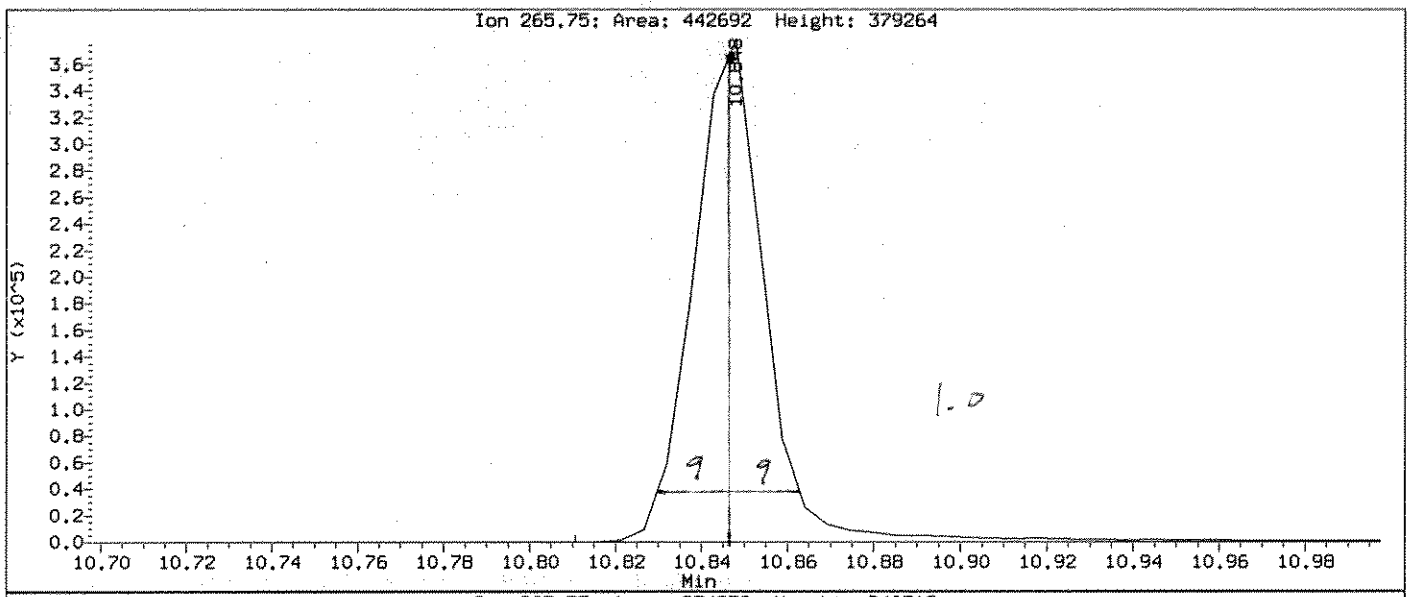
Column diameter: 0.25

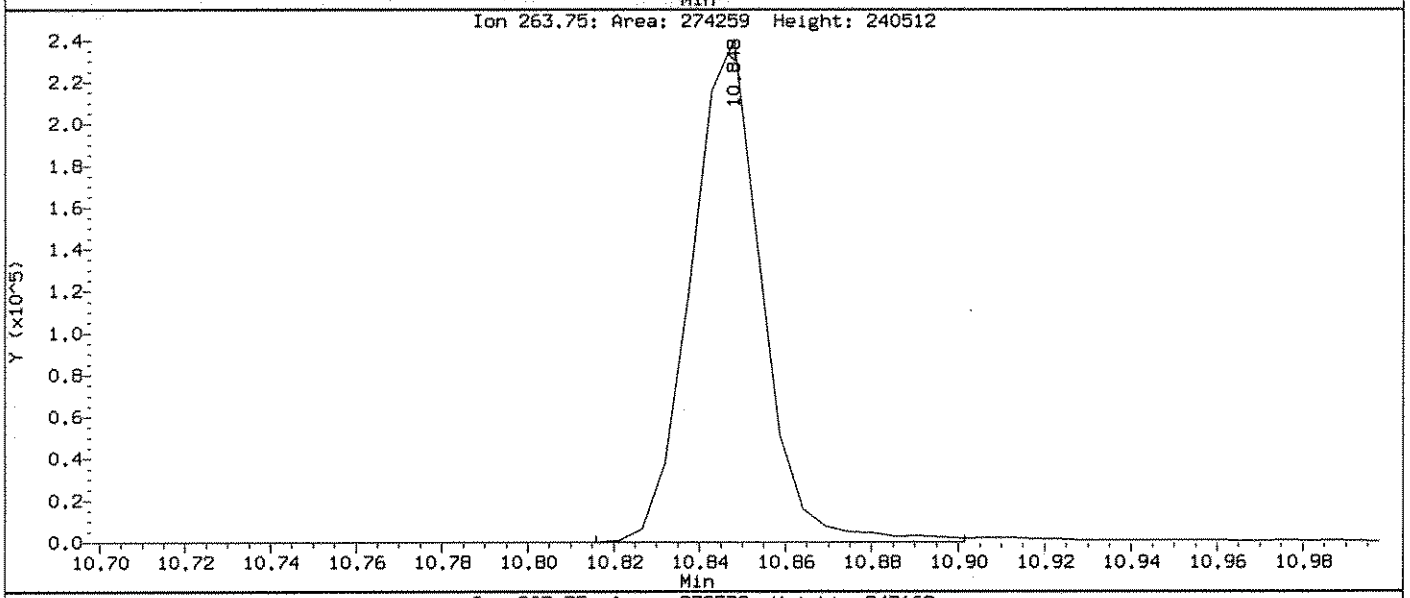
Data File: SEQ-TUN1.D
Spectrum: Avg. Scans 477-479 (11.44), Background Scan 472
Location of Maximum: 198.00
Number of points: 347

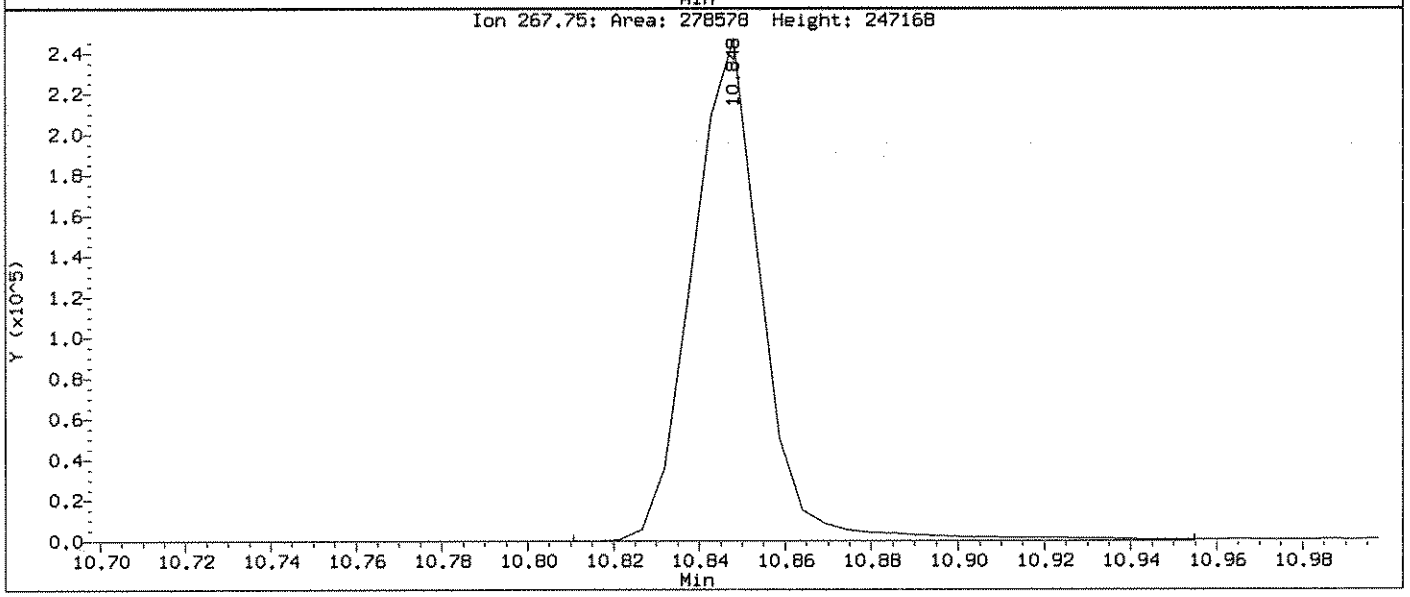
m/z	Y	m/z	Y	m/z	Y	m/z	Y
110.00	81296	196.00	8082	291.90	356	432.70	127
111.00	12977	198.00	271232	293.00	1229	433.80	94
112.00	1278	199.00	19672	294.10	258	435.00	225
113.10	467	200.00	1553	295.00	526	436.40	216
114.10	208	201.50	1372	296.00	15596	437.10	108
115.10	120	203.00	1928	297.00	2250	437.30	116
116.00	2519	204.00	9585	298.10	251	437.70	98
117.00	31632	205.00	16112	299.90	66	438.00	118
118.00	2664	206.00	67424	300.90	81	438.60	138
119.00	317	207.10	8523	302.10	216	439.20	211
120.00	343	208.00	1746	303.00	2321	439.90	180
121.00	161	209.00	797	304.10	378	441.00	19584
122.00	2251	210.10	1172	307.80	106	442.00	125976
123.00	4530	211.00	2585	309.00	189	443.00	26328
124.00	2533	213.10	124	310.10	303	444.00	2357
125.00	1668	213.80	109	310.60	64	444.90	166
127.00	154176	215.00	706	311.00	55		

Data File: \\ELABNSHO5\TARGET\chem\bna3.i\043011b3.b\SEQ-TUN1ex.D
Injection Date: 30-APR-2011 14:42
Instrument: bna3.i
Client Sample ID: 50ppm DFTPP

Compound: Pentachlorophenol
CAS Number: 87-86-5

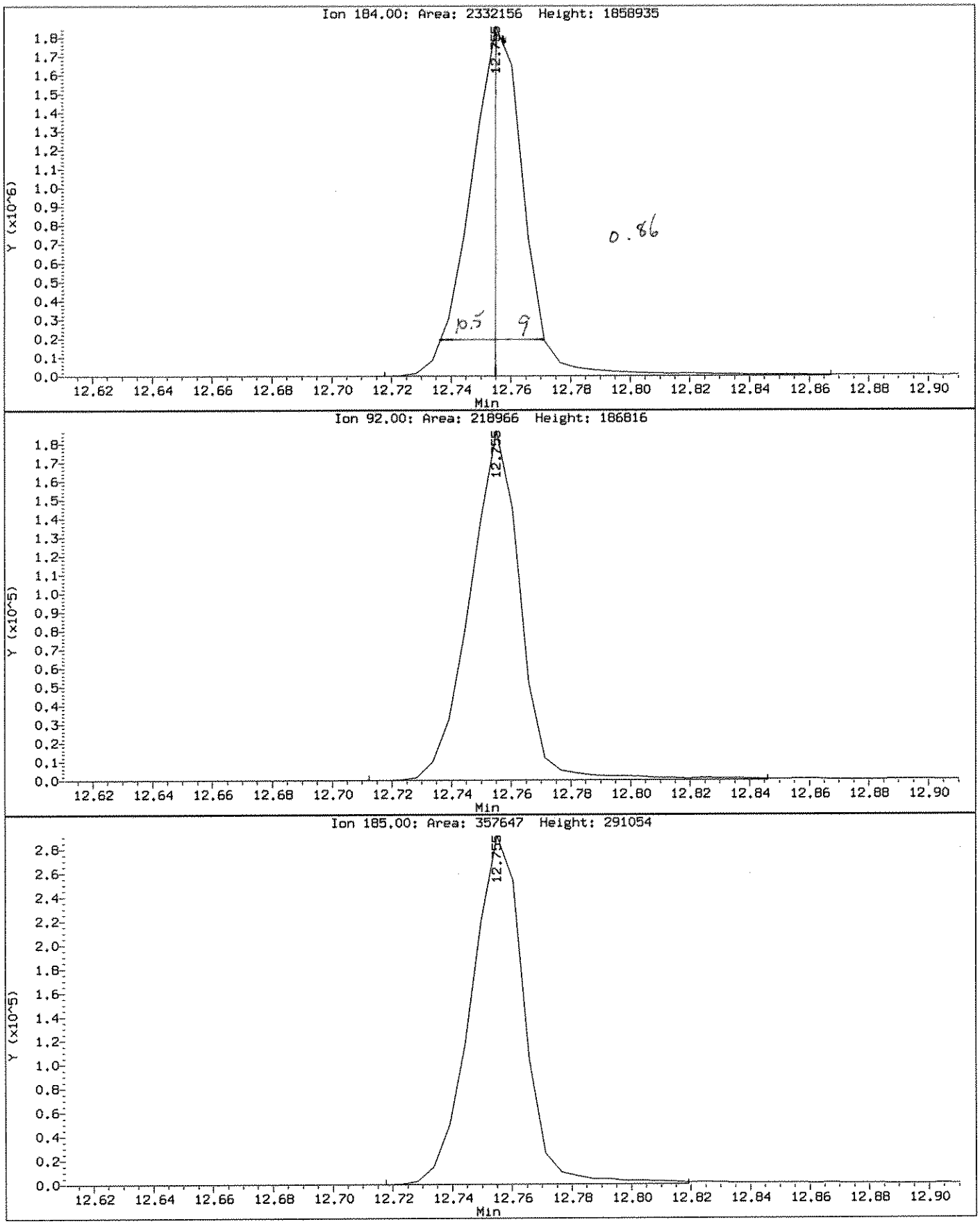






Data File: \\ELABNSHO5\TARGET\chem\bna3.i\043011b3.b\SEQ-TUN1ex.D
Injection Date: 30-APR-2011 14:42
Instrument: bna3.i
Client Sample ID: 50ppm DFTPP

Compound: Benzidine
CAS Number: 92-87-5



Data File: \\ELABNSH05\TARGET\chem\bna3.i\043011b3.b\SEQ-TUN1ex.D
Report Date: 01-May-2011 17:12

Laboratory Name

Data file : \\ELABNSH05\TARGET\chem\bna3.i\043011b3.b\SEQ-TUN1ex.D
Lab Smp Id: SEQ-TUN1 Client Smp ID: 50ppm DFTPP
Inj Date : 30-APR-2011 14:42
Operator : MEC Inst ID: bna3.i
Smp Info : DF0430B1;;;;;;11D0633
Misc Info : ;;;;;;;all.sub;
Comment :
Method : \\ELABNSH05\TARGET\chem\bna3.i\043011b3.b\dftppbn3ex.m
Meth Date : 29-Apr-2011 16:48 mcobb Quant Type: ESTD
Cal Date : Cal File:
Als bottle: 1 QC Sample: DFTPP
Dil Factor: 1.00000
Integrator: HP RTE Compound Sublist: all.sub
Target Version: 4.04
Processing Host: TARGET09_VM

Compounds	QUANT SIG MASS	RT	EXP RT	DLT RT	RESPONSE	CONCENTRATIONS ON-COLUMN (ng/ul)	FINAL (ng/ul)
1 Pentachlorophenol	266	10.847	10.849	-0.002	442692		
2 Benzidine	184	12.755	12.761	-0.006	2332156		
4 4,4'-DDD	235	13.401	13.402	-0.001	2862		
5 4,4'-DDT	235	13.775	13.776	-0.001	1035896		

DDT breakdown = $\frac{2862}{1038758} \times 100 = 0.28\%$

Data File: \\ELABNSH05\TARGET\chem\bna3.i\050211b3.b\SEQ-TUN1.D

Date : 02-MAY-2011 13:51

Client ID: 50ppm DFTPP

Instrument: bna3.i

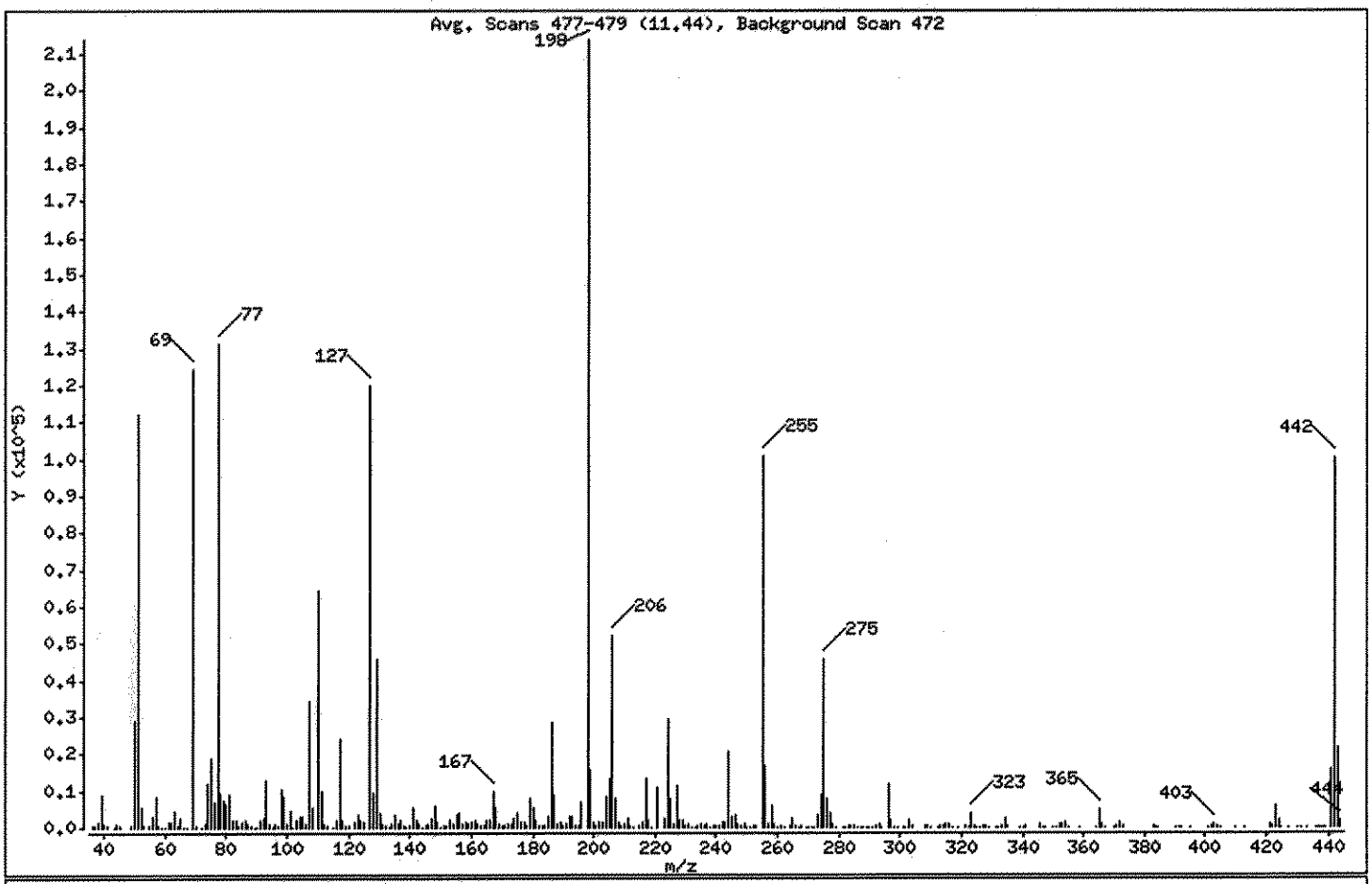
Sample Info: DF0502B1;;;;;;11D0663

Operator: MEC

Column phase: DB5-MS

Column diameter: 0.25

1 dftpp



m/e	ION ABUNDANCE CRITERIA	% RELATIVE ABUNDANCE
198	Base Peak, 100% relative abundance	100.00
51	30.00 - 60.00% of mass 198	52.46
68	Less than 2.00% of mass 69	0.00 (0.00)
69	Mass 69 relative abundance	58.16
70	Less than 2.00% of mass 69	0.30 (0.51)
127	40.00 - 60.00% of mass 198	56.13
197	Less than 1.00% of mass 198	0.00
199	5.00 - 9.00% of mass 198	7.39
275	10.00 - 30.00% of mass 198	21.44
365	Greater than 1.00% of mass 198	2.24
441	Present, but less than mass 443	7.26
442	Greater than 40.00% of mass 198	46.92
443	17.00 - 23.00% of mass 442	10.06 (21.44)

5/2/4

GLQ
5/6/11

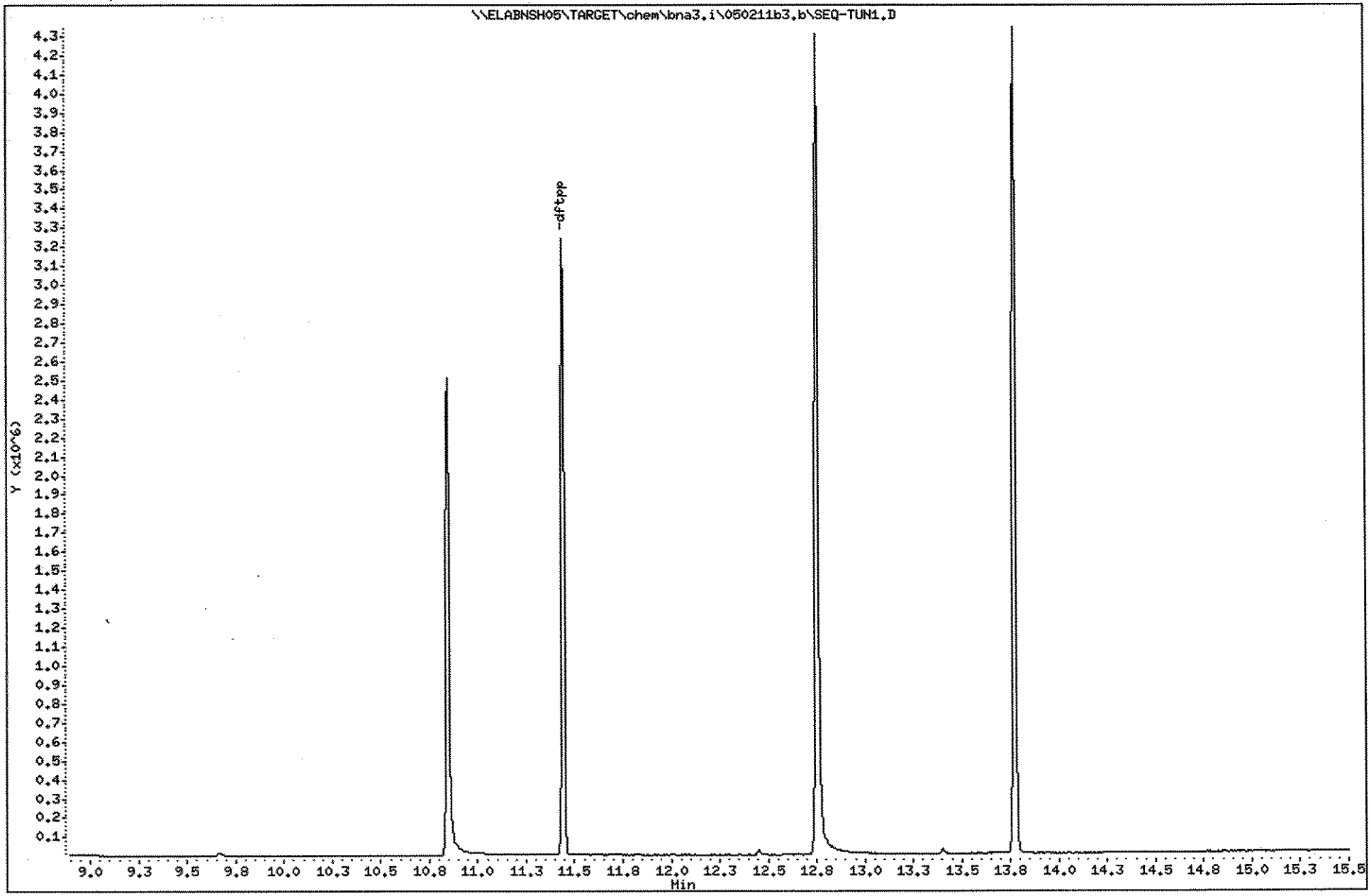
Data File: \\ELABNSH05\TARGET\chem\bna3.i\050211b3.b\SEQ-TUN1.D
Date : 02-MAY-2011 13:51
Client ID: 50ppm DFTPP
Sample Info: DF0502B1;;;;;;11D0663

Instrument: bna3.i

Operator: MEC

Column phase: DB5-MS

Column diameter: 0.25



606

1109191

Data File: \\ELABNSH05\TARGET\chem\bna3.i\050211b3.b\SEQ-TUN1.D

Date : 02-MAY-2011 13:51

Client ID: 50ppm DFTPP

Instrument: bna3.i

Sample Info: DF0502B1;;;;;;11D0663

Operator: MEC

Column phase: DB5-MS

Column diameter: 0.25

Data File: SEQ-TUN1.D

Spectrum: Avg. Scans 477-479 (11.44), Background Scan 472

Location of Maximum: 198.00

Number of points: 329

m/z	Y	m/z	Y	m/z	Y	m/z	Y
36.10	306	130.00	3754	213.00	87	304.00	591
37.00	527	131.00	745	215.00	319	307.90	269
38.00	1510	132.00	302	216.00	1404	309.00	302
39.10	8939	133.00	153	217.00	13486	310.00	194
40.00	885	134.00	1135	218.00	1728	312.20	75
41.10	399	135.00	3297	219.00	192	313.00	271
43.20	97	136.00	1181	221.00	10932	313.90	636
44.00	1150	137.10	1786	223.00	2523	314.90	1151
45.00	331	138.00	450	224.00	29432	316.00	868
49.00	688	138.90	234	225.10	7983	316.80	139
50.10	28792	140.00	534	226.00	777	318.80	52
51.10	112248	141.00	5409	227.00	11317	321.00	442
52.10	5622	142.00	1831	228.00	2100	322.20	161
53.00	291	143.00	1169	229.00	2159	323.10	3764
55.00	509	144.10	214	229.90	314	324.00	637
56.00	3115	144.90	249	231.00	1140	325.10	112
57.00	8193	146.00	992	232.10	197	326.00	192
57.90	401	147.10	2664	233.00	235	327.00	486
59.10	104	148.00	5882	234.00	671	328.00	373
60.00	113	149.00	1425	235.00	829	329.10	90
61.00	1646	150.00	210	236.00	421	331.10	56
62.00	1575	151.20	690	237.00	1123	331.90	223
63.00	4315	152.00	353	238.10	216	332.10	220
64.00	570	153.00	1780	239.00	471	333.00	305
65.10	2411	154.00	1043	240.00	327	334.10	2325
66.10	162	155.00	3211	240.90	586	335.10	660
67.10	241	156.00	3905	242.00	1631	339.00	82
69.00	124432	157.10	993	243.00	1443	340.10	72
70.10	635	158.00	1291	244.00	20864	341.00	482
72.10	94	159.10	1020	245.00	2880	345.90	815
73.00	994	160.00	1597	246.00	3423	347.00	154
74.00	11629	161.10	2130	247.00	896	347.60	82
75.00	18480	162.00	821	248.00	258	349.60	55
76.10	6815	162.90	270	249.00	764	350.90	60
77.10	131520	164.00	377	249.90	174	352.00	1044

Data File: \\ELABNSH05\TARGET\chem\bna3.i\050211b3.b\SEQ-TUN1.D

Date : 02-MAY-2011 13:51

Client ID: 50ppm DFTPP

Instrument: bna3.i

Sample Info: DF0502B1;;;;;;11D0663

Operator: MEC

Column phase: DB5-MS

Column diameter: 0.25

Data File: SEQ-TUN1.D

Spectrum: Avg. Scans 477-479 (11.44), Background Scan 472

Location of Maximum: 198.00

Number of points: 329

m/z	Y	m/z	Y	m/z	Y	m/z	Y
78.00	9266	165.00	2092	250.80	190	353.00	857
79.00	7350	166.00	1754	252.00	310	354.10	1251
80.00	6603	167.00	9755	253.00	619	354.90	210
81.00	8848	168.00	5211	255.00	100640	358.80	76
82.00	1887	169.00	1095	256.00	16480	363.90	98
83.00	2195	170.00	367	256.90	941	365.00	4796
84.10	299	170.90	423	258.00	6083	366.00	827
85.00	1464	172.00	1001	259.00	824	367.00	83
86.00	2189	173.00	1188	259.90	185	369.90	153
87.00	933	174.00	2358	260.90	347	370.90	378
88.00	349	175.00	4033	262.50	60	372.00	1583
89.00	223	176.00	1335	263.90	356	372.90	356
89.90	91	177.00	1448	265.00	2243	383.00	607
91.00	1782	177.90	597	265.90	588	383.80	90
92.00	2300	179.00	7984	267.00	87	384.10	103
93.00	13021	180.00	5548	267.80	275	390.00	104
94.00	985	181.00	2045	269.60	95	391.30	121
95.10	226	182.10	328	270.00	93	391.80	235
96.00	845	183.00	300	271.00	206	395.10	63
97.00	360	183.90	553	272.00	242	401.00	142
98.00	10194	185.00	3132	273.00	3305	402.00	482
99.00	8410	186.00	28624	274.00	8689	403.00	843
99.90	781	187.00	8624	275.00	45880	404.00	474
101.00	4261	188.00	844	276.00	7720	405.10	79
101.90	128	189.00	1718	277.00	3775	409.90	60
103.00	1794	190.00	261	278.00	996	412.60	74
104.00	2721	191.10	854	279.00	69	421.00	977
105.00	3055	192.00	2765	281.10	65	422.00	666
106.00	917	193.00	2930	282.10	74	423.00	5992
107.00	34288	194.00	642	283.00	276	424.00	1757
108.00	5547	195.00	410	284.00	255	424.90	94
110.00	64224	196.00	7073	285.10	531	427.00	74
111.00	9903	198.00	213952	286.10	205	429.90	74
112.00	926	199.00	15810	287.20	50	431.60	67
113.00	536	200.00	1370	288.10	96	433.00	121

Data File: \\ELABNSH05\TARGET\chem\bna3.i\050211b3.b\SEQ-TUN1.D

Date : 02-MAY-2011 13:51

Client ID: 50ppm DFTPP

Instrument: bna3.i

Sample Info: DF0502B1;;;;;;11D0663

Operator: MEC

Column phase: DB5-MS

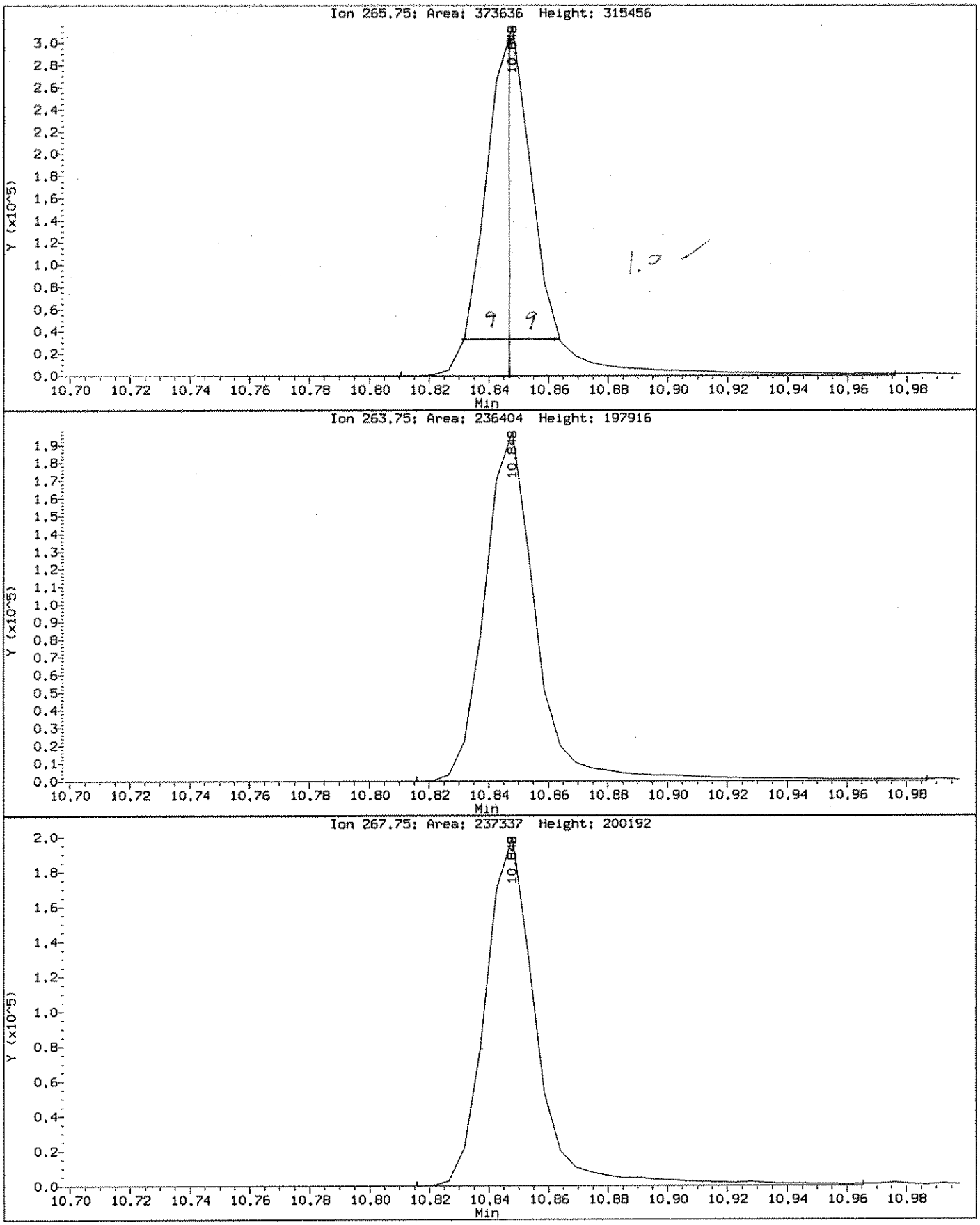
Column diameter: 0.25

Data File: SEQ-TUN1.D
Spectrum: Avg. Scans 477-479 (11.44), Background Scan 472
Location of Maximum: 198.00
Number of points: 329

m/z	Y	m/z	Y	m/z	Y	m/z	Y
114.90	145	200.70	341	289.00	185	435.90	71
116.00	2024	201.50	1303	289.90	171	436.50	96
117.00	23896	203.00	1392	291.00	71	437.00	108
118.00	1854	204.00	8185	292.00	251	437.90	76
119.00	382	205.00	13497	293.00	1075	438.50	192
120.10	348	206.00	52248	294.10	192	439.30	166
122.00	1479	207.10	7708	296.00	11721	441.00	15523
123.00	3474	208.00	1586	296.90	1947	442.00	100384
124.00	1727	209.00	586	297.80	69	443.00	21520
125.00	1512	210.00	858	299.00	114	444.00	2105
127.00	120096	211.00	2252	301.10	228		
128.00	9433	211.70	436	301.90	226		
129.00	45504	212.00	418	303.00	1768		

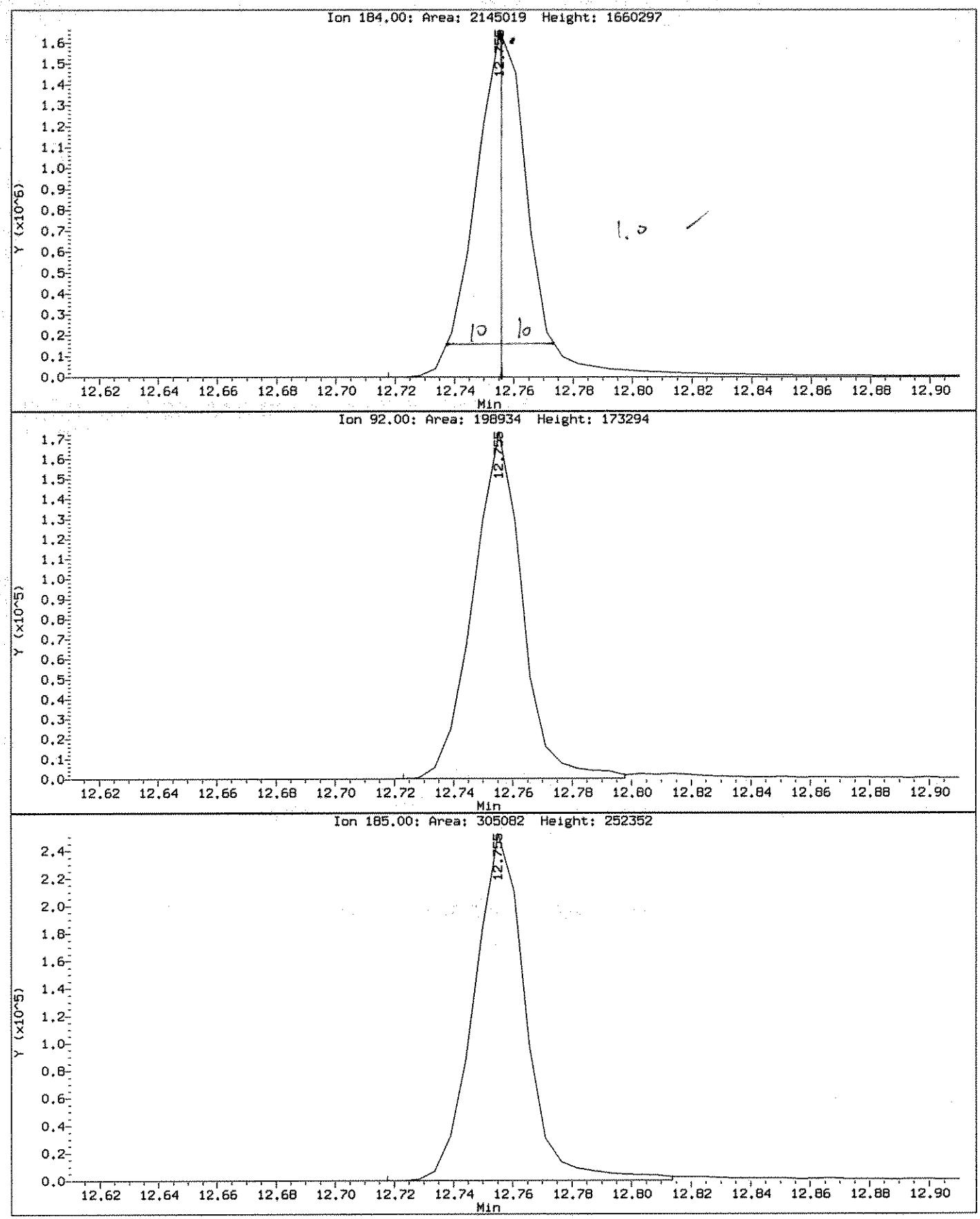
Data File: \\ELABNSH05\TARGET\chem\bna3.i\050211b3.b\SEQ-TUN1ex.D
Injection Date: 02-MAY-2011 13:51
Instrument: bna3.i
Client Sample ID: 50ppm DFTPP

Compound: Pentachlorophenol
CAS Number: 87-86-5



Data File: \\ELABNSH05\TARGET\chem\bna3.i\050211b3.b\SEQ-TUN1ex.D
Injection Date: 02-MAY-2011 13:51
Instrument: bna3.i
Client Sample ID: 50ppm DFTPP

Compound: Benzidine
CAS Number: 92-87-5



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Report Date: 02-May-2011 14:55

Laboratory Name

Data file : \\ELABNSH05\TARGET\chem\bna3.i\050211b3.b\SEQ-TUN1ex.D
Lab Smp Id: SEQ-TUN1 Client Smp ID: 50ppm DFTPP
Inj Date : 02-MAY-2011 13:51
Operator : MEC Inst ID: bna3.i
Smp Info : DF0502B1;;;;;;11D0663
Misc Info : ;;;;;;;all.sub;
Comment :
Method : \\ELABNSH05\TARGET\chem\bna3.i\050211b3.b\dftppbn3ex.m
Meth Date : 29-Apr-2011 16:48 mcobb Quant Type: ESTD
Cal Date : Cal File:
Als bottle: 1 QC Sample: DFTPP
Dil Factor: 1.00000
Integrator: HP RTE Compound Sublist: all.sub
Target Version: 4.04
Processing Host: TARGET09_VM

Compounds	QUANT SIG MASS	RT	EXP RT	DLT RT	RESPONSE	CONCENTRATIONS ON-COLUMN (ng/ul)	FINAL (ng/ul)
1 Pentachlorophenol	266	10.847	10.849	-0.002	373636		
2 Benzidine	184	12.755	12.761	-0.006	2145019		
4 4,4'-DDD	235	13.401	13.402	-0.001	6712		
5 4,4'-DDT	235	13.775	13.776	-0.001	896332		

DDT breakdown = $\frac{6712}{903044} \times 100 = 0.74\%$

Data File: \\ELABNSH05\TARGET\chem\bna3.i\042911b3.b\SEQ-CAL1.D
Report Date: 30-Apr-2011 15:00

Laboratory Name

Data file : \\ELABNSH05\TARGET\chem\bna3.i\042911b3.b\SEQ-CAL1.D
Lab Smp Id: SEQ-CAL1 Client Smp ID: SEQ-CAL1
Inj Date : 29-APR-2011 17:45 MS Autotune Date: 07-SEP-2010 05:33
Operator : MEC Inst ID: bna3.i
Smp Info : CAL5.0PPM;;;;;;11D0216
Misc Info : ;;;;;;cal_1.sub;
Comment :
Method : \\ELABNSH05\TARGET\chem\bna3.i\042911b3.b\IXBN3.m
Meth Date : 30-Apr-2011 15:00 mcobb Quant Type: ISTD
Cal Date : 29-APR-2011 22:09 Cal File: SEQ-CAL9.D
Als bottle: 2 Calibration Sample, Level: 1
Dil Factor: 1.00000
Integrator: HP RTE Compound Sublist: cal_1.sub
Target Version: 4.04
Processing Host: TARGET09_VM

Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	AMOUNTS CAL-AMT (ng/ul)	AMOUNTS ON-COL (ng/ul)
* 1 1,4-Dichlorobenzene-d4	152	6.380	6.380	(1.000)	752034	40.0000	
$ 2 2-Fluorophenol	112	4.724	4.724	(0.740)	228282	10.0000	10.63
$ 3 Phenol-d6	99	5.883	5.883	(0.922)	312621	10.0000	10.57
4 Pyridine	79	3.324	3.324	(0.521)	141844	5.00000	5.088
6 N-Nitroso-di-methylamine	42	3.266	3.266	(0.512)	65999	5.00000	5.128
7 Aniline	93	5.953	5.953	(0.933)	207734	5.00000	5.263
10 Phenol	94	5.899	5.899	(0.925)	165805	5.00000	5.225
11 bis(2-Chloroethyl)ether	93	6.038	6.038	(0.946)	131509	5.00000	5.390
12 2-Chlorophenol	128	6.102	6.102	(0.956)	130420	5.00000	5.275
13 1,3-Dichlorobenzene	146	6.305	6.305	(0.988)	147996	5.00000	5.513
14 1,4-Dichlorobenzene	146	6.402	6.402	(1.003)	147401	5.00000	5.426
15 Benzyl alcohol	108	6.546	6.546	(1.026)	81005	5.00000	4.971
16 1,2-Dichlorobenzene	146	6.594	6.594	(1.033)	137792	5.00000	5.414
17 2-Methylphenol	108	6.685	6.685	(1.048)	118471	5.00000	5.214
18 2,2'-Oxybis-1-chloropropane	45	6.733	6.733	(1.055)	197849	5.00000	5.405
19 3-Methylphenol	108	6.888	6.888	(1.080)	125186	5.00000	5.250
20 4-Methylphenol	108	6.888	6.888	(1.080)	125186	5.00000	5.250
21 N-Nitroso-di-n-propylamine	70	6.893	6.893	(1.080)	101991	5.00000	5.247
22 Hexachloroethane	117	7.032	7.032	(1.102)	54958	5.00000	5.349
* 33 Naphthalene-d8	136	8.020	8.020	(1.000)	2684251	40.0000	
$ 34 Nitrobenzene-d5	82	7.085	7.085	(0.883)	141777	5.00000	5.184
35 Nitrobenzene	77	7.112	7.112	(0.887)	146361	5.00000	5.309
39 Isophorone	82	7.422	7.422	(0.925)	264958	5.00000	5.305
40 2-Nitrophenol	139	7.523	7.523	(0.938)	65833	5.00000	5.053
42 2,4-Dimethylphenol	107	7.577	7.577	(0.945)	128890	5.00000	5.282
43 Benzoic acid	105	7.662	7.662	(0.955)	54730	5.00000	3.044

5/2/11
GLQ
5/6/11

Data File: \\ELABNSH05\TARGET\chem\bna3.i\042911b3.b\SEQ-CAL1.D
Report Date: 30-Apr-2011 15:00

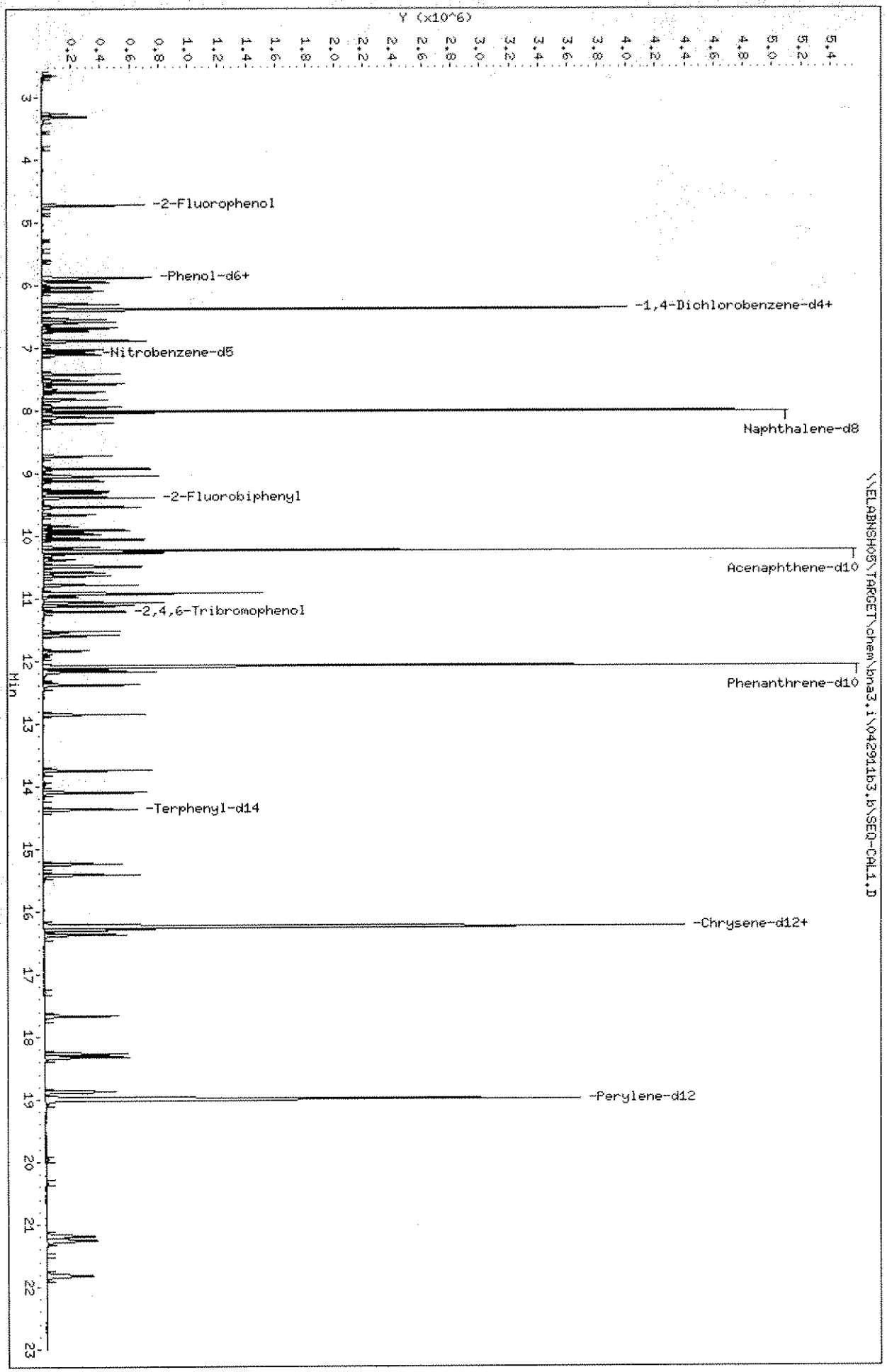
Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	AMOUNTS CAL-AMT (ng/ul)	AMOUNTS ON-COL (ng/ul)
44 bis(2-Chloroethoxy)methane	93	7.710	7.710	(0.961)	154719	5.00000	5.400
47 2,4-Dichlorophenol	162	7.828	7.828	(0.976)	106343	5.00000	5.201
50 1,2,4-Trichlorobenzene	180	7.945	7.945	(0.991)	125703	5.00000	5.474
51 Naphthalene	128	8.047	8.047	(1.003)	376502	5.00000	5.634
52 4-Chloroaniline	127	8.111	8.111	(1.011)	152322	5.00000	5.372
53 Hexachlorobutadiene	225	8.207	8.207	(1.023)	65715	5.00000	5.241
54 4-Chloro-3-methylphenol	107	8.725	8.725	(1.088)	109782	5.00000	5.254
55 2-Methylnaphthalene	141	8.928	8.928	(1.113)	215942	5.00000	5.386
56 1-Methylnaphthalene	141	9.051	9.051	(1.129)	216126	5.00000	5.484
* 69 Acenaphthene-d10	164	10.243	10.243	(1.000)	1574376	40.0000	
70 Hexachlorocyclopentadiene	237	9.126	9.126	(0.891)	68471	5.00000	4.639
71 2,4,6-Trichlorophenol	196	9.281	9.281	(0.906)	75377	5.00000	5.013
72 2,4,5-Trichlorophenol	196	9.318	9.318	(0.910)	82887	5.00000	5.083
73 2-Chloronaphthalene	162	9.537	9.537	(0.931)	236202	5.00000	5.517
$ 74 2-Fluorobiphenyl	172	9.393	9.393	(0.917)	271538	5.00000	5.452
75 2-Nitroaniline	65	9.666	9.666	(0.944)	72138	5.00000	4.953
76 Dimethylphthalate	163	9.906	9.906	(0.967)	266693	5.00000	5.445
77 Acenaphthylene	152	10.061	10.061	(0.982)	375993	5.00000	5.537
78 2,6-Dinitrotoluene	165	9.975	9.975	(0.974)	62459	5.00000	5.304
79 3-Nitroaniline	138	10.178	10.178	(0.994)	65132	5.00000	5.122
80 Acenaphthene	153	10.280	10.280	(1.004)	236267	5.00000	5.406
81 2,4-Dinitrophenol	184	10.312	10.312	(1.007)	24469	5.00000	3.352
83 4-Nitrophenol	65	10.376	10.376	(1.013)	45208	5.00000	4.220
84 Dibenzofuran	168	10.494	10.494	(1.025)	332712	5.00000	5.506
85 2,4-Dinitrotoluene	165	10.472	10.472	(1.022)	77108	5.00000	4.985
86 Diethylphthalate	149	10.782	10.782	(1.053)	259896	5.00000	5.527
87 4-Chlorophenyl-phenylether	204	10.921	10.921	(1.066)	132304	5.00000	5.392
88 Fluorene	166	10.916	10.916	(1.066)	281015	5.00000	5.338
89 4-Nitroaniline	138	10.932	10.932	(1.067)	67505	5.00000	5.240
96 2,3,4,6-Tetrachlorophenol	232	10.638	10.638	(1.039)	67396	5.00000	5.126
* 102 Phenanthrene-d10	188	12.086	12.086	(1.000)	2577091	40.0000	
103 1,2-Diphenylhydrazine	77	11.119	11.119	(0.920)	302673	5.00000	5.522
104 Carbazole	167	12.379	12.379	(1.024)	376729	5.00000	5.599
105 4,6-Dinitro-2-methylphenol	198	10.974	10.974	(0.908)	39006	5.00000	4.163
106 N-Nitrosodiphenylamine	169	11.065	11.065	(0.916)	239910	5.00000	5.534
$ 107 2,4,6-Tribromophenol	330	11.215	11.215	(0.928)	71450	10.0000	10.09
108 4-Bromophenyl-phenylether	248	11.530	11.530	(0.954)	79538	5.00000	5.403
109 Hexachlorobenzene	284	11.594	11.594	(0.959)	85125	5.00000	5.407
110 Pentachlorophenol	266	11.840	11.840	(0.980)	47239	5.00000	4.517
111 Phenanthrene	178	12.112	12.112	(1.002)	386392	5.00000	5.574
112 Anthracene	178	12.176	12.176	(1.008)	398091	5.00000	5.655
115 Di-n-butylphthalate	149	12.855	12.855	(1.064)	416148	5.00000	5.464
116 Fluoranthene	202	13.747	13.747	(1.137)	423617	5.00000	5.329
* 132 Chrysene-d12	240	16.242	16.242	(1.000)	2801926	40.0000	
134 Pyrene	202	14.100	14.100	(0.868)	442265	5.00000	5.425
$ 135 Terphenyl-d14	244	14.367	14.367	(0.885)	273875	5.00000	5.239
136 Butylbenzylphthalate	149	15.237	15.237	(0.938)	177889	5.00000	4.950

Data File: \\ELABNSH05\TARGET\chem\bna3.i\042911b3.b\SEQ-CAL1.D
Report Date: 30-Apr-2011 15:00

Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	AMOUNTS CAL-AMT (ng/ul)	AMOUNTS ON-COL (ng/ul)
138 Benzo(a)anthracene	228	16.220	16.220	(0.999)	409387	5.00000	5.221
139 Chrysene	228	16.284	16.284	(1.003)	403188	5.00000	5.493
140 Bis(2-ethylhexyl)phthalate	149	16.370	16.370	(1.008)	238483	5.00000	5.012
* 154 Perylene-d12	264	18.998	18.998	(1.000)	2818098	40.0000	
155 Di-n-octylphthalate	149	17.663	17.663	(0.930)	397934	5.00000	4.690
156 Benzo(b)fluoranthene	252	18.266	18.266	(0.961)	379778	5.00000	4.929
157 Benzo(k)fluoranthene	252	18.320	18.320	(0.964)	412885	5.00000	5.290
158 Benzo(a)pyrene	252	18.875	18.875	(0.994)	365035	5.00000	4.954
159 Indeno(1,2,3-cd)pyrene	276	21.183	21.183	(1.115)	328633	5.00000	4.494
160 Dibenz(a,h)anthracene	278	21.253	21.253	(1.119)	333524	5.00000	4.713
161 Benzo(g,h,i)perylene	276	21.819	21.819	(1.148)	354589	5.00000	4.872

Data File: \\ELABNSH05\TARGET\chem\bna3.i\042911b3.b\SEQ-CAL1.D
Date : 29-APR-2011 17:45
Client ID: SEQ-CAL1
Sample Info: CAL5,0PPM;;;;;;11D0216
Column phase: fused silica

Instrument: bna3.i
Operator: MEC
Column diameter: 0.25



Data File: \\ELABNSH05\TARGET\chem\bna3.i\042911b3.b\SEQ-CAL2.D
Report Date: 30-Apr-2011 15:00

Laboratory Name

Data file : \\ELABNSH05\TARGET\chem\bna3.i\042911b3.b\SEQ-CAL2.D
Lab Smp Id: SEQ-CAL2 Client Smp ID: SEQ-CAL2
Inj Date : 29-APR-2011 18:19 MS Autotune Date: 07-SEP-2010 05:33
Operator : MEC Inst ID: bna3.i
Smp Info : CAL10.0PPM;;;;;;11D0217
Misc Info : ;;;;;;cal_1.sub;
Comment :
Method : \\ELABNSH05\TARGET\chem\bna3.i\042911b3.b\IXBN3.m
Meth Date : 30-Apr-2011 15:00 mcobb Quant Type: ISTD
Cal Date : 29-APR-2011 22:09 Cal File: SEQ-CAL9.D
Als bottle: 3 Calibration Sample, Level: 2
Dil Factor: 1.00000
Integrator: HP RTE Compound Sublist: cal_1.sub
Target Version: 4.04
Processing Host: TARGET09_VM

Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	AMOUNTS CAL-AMT (ng/ul)	AMOUNTS ON-COL (ng/ul)
* 1 1,4-Dichlorobenzene-d4	152	6.380	6.380	(1.000)	683760	40.0000	
$ 2 2-Fluorophenol	112	4.724	4.724	(0.740)	405094	20.0000	20.75
$ 3 Phenol-d6	99	5.883	5.883	(0.922)	558522	20.0000	20.77
4 Pyridine	79	3.303	3.303	(0.518)	251911	10.0000	9.938
6 N-Nitroso-di-methylamine	42	3.249	3.249	(0.509)	119222	10.0000	10.19
7 Aniline	93	5.952	5.952	(0.933)	374397	10.0000	10.43
10 Phenol	94	5.899	5.899	(0.925)	297413	10.0000	10.31
11 bis(2-Chloroethyl)ether	93	6.038	6.038	(0.946)	233395	10.0000	10.52
12 2-Chlorophenol	128	6.102	6.102	(0.956)	232600	10.0000	10.35
13 1,3-Dichlorobenzene	146	6.305	6.305	(0.988)	252923	10.0000	10.36
14 1,4-Dichlorobenzene	146	6.401	6.401	(1.003)	258084	10.0000	10.45
15 Benzyl alcohol	108	6.551	6.551	(1.027)	148262	10.0000	10.01
16 1,2-Dichlorobenzene	146	6.594	6.594	(1.033)	245202	10.0000	10.60
17 2-Methylphenol	108	6.684	6.684	(1.048)	213987	10.0000	10.36
18 2,2'-Oxybis-1-chloropropane	45	6.732	6.732	(1.055)	348484	10.0000	10.47
19 3-Methylphenol	108	6.887	6.887	(1.080)	220648	10.0000	10.18
20 4-Methylphenol	108	6.887	6.887	(1.080)	220648	10.0000	10.18
21 N-Nitroso-di-n-propylamine	70	6.898	6.898	(1.081)	182433	10.0000	10.32
22 Hexachloroethane	117	7.032	7.032	(1.102)	96417	10.0000	10.32
* 33 Naphthalene-d8	136	8.020	8.020	(1.000)	2436460	40.0000	
$ 34 Nitrobenzene-d5	82	7.090	7.090	(0.884)	253808	10.0000	10.22
35 Nitrobenzene	77	7.112	7.112	(0.887)	256297	10.0000	10.24
39 Isophorone	82	7.427	7.427	(0.926)	469899	10.0000	10.36
40 2-Nitrophenol	139	7.523	7.523	(0.938)	118878	10.0000	10.05
42 2,4-Dimethylphenol	107	7.582	7.582	(0.945)	225499	10.0000	10.18
43 Benzoic acid	105	7.689	7.689	(0.959)	125876	10.0000	7.713

5/2/11
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5/6/11

Data File: \\ELABNSH05\TARGET\chem\bna3.i\042911b3.b\SEQ-CAL2.D
Report Date: 30-Apr-2011 15:00

Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	AMOUNTS CAL-AMT (ng/ul)	AMOUNTS ON-COL (ng/ul)
44 bis(2-Chloroethoxy)methane	93	7.715	7.715	(0.962)	274704	10.0000	10.56
47 2,4-Dichlorophenol	162	7.833	7.833	(0.977)	191586	10.0000	10.32
50 1,2,4-Trichlorobenzene	180	7.945	7.945	(0.991)	218357	10.0000	10.48
51 Naphthalene	128	8.047	8.047	(1.003)	652805	10.0000	10.76
52 4-Chloroaniline	127	8.111	8.111	(1.011)	271279	10.0000	10.54
53 Hexachlorobutadiene	225	8.207	8.207	(1.023)	117204	10.0000	10.30
54 4-Chloro-3-methylphenol	107	8.725	8.725	(1.088)	192237	10.0000	10.14
55 2-Methylnaphthalene	141	8.928	8.928	(1.113)	382416	10.0000	10.51
56 1-Methylnaphthalene	141	9.051	9.051	(1.129)	376443	10.0000	10.52
* 69 Acenaphthene-d10	164	10.242	10.242	(1.000)	1439908	40.0000	
70 Hexachlorocyclopentadiene	237	9.126	9.126	(0.891)	124524	10.0000	9.225
71 2,4,6-Trichlorophenol	196	9.281	9.281	(0.906)	137433	10.0000	9.994
72 2,4,5-Trichlorophenol	196	9.318	9.318	(0.910)	148750	10.0000	9.975
73 2-Chloronaphthalene	162	9.542	9.542	(0.932)	415719	10.0000	10.62
$ 74 2-Fluorobiphenyl	172	9.393	9.393	(0.917)	479530	10.0000	10.53
75 2-Nitroaniline	65	9.665	9.665	(0.944)	133201	10.0000	10.00
76 Dimethylphthalate	163	9.911	9.911	(0.968)	470699	10.0000	10.51
77 Acenaphthylene	152	10.061	10.061	(0.982)	668352	10.0000	10.76
78 2,6-Dinitrotoluene	165	9.980	9.980	(0.974)	111687	10.0000	10.37
79 3-Nitroaniline	138	10.183	10.183	(0.994)	121610	10.0000	10.46
80 Acenaphthene	153	10.280	10.280	(1.004)	414718	10.0000	10.38
81 2,4-Dinitrophenol	184	10.312	10.312	(1.007)	50859	10.0000	7.619
83 4-Nitrophenol	65	10.381	10.381	(1.014)	89796	10.0000	9.165
84 Dibenzofuran	168	10.493	10.493	(1.025)	585185	10.0000	10.59
85 2,4-Dinitrotoluene	165	10.477	10.477	(1.023)	143529	10.0000	10.14
86 Diethylphthalate	149	10.787	10.787	(1.053)	454154	10.0000	10.56
87 4-Chlorophenyl-phenylether	204	10.926	10.926	(1.067)	226495	10.0000	10.09
88 Fluorene	166	10.921	10.921	(1.066)	495962	10.0000	10.30
89 4-Nitroaniline	138	10.942	10.942	(1.068)	120979	10.0000	10.27
96 2,3,4,6-Tetrachlorophenol	232	10.643	10.643	(1.039)	122038	10.0000	10.15
* 102 Phenanthrene-d10	188	12.091	12.091	(1.000)	2386233	40.0000	
103 1,2-Diphenylhydrazine	77	11.118	11.118	(0.920)	533390	10.0000	10.51
104 Carbazole	167	12.379	12.379	(1.024)	659648	10.0000	10.59
105 4,6-Dinitro-2-methylphenol	198	10.979	10.979	(0.908)	77905	10.0000	8.980
106 N-Nitrosodiphenylamine	169	11.070	11.070	(0.916)	419177	10.0000	10.44
$ 107 2,4,6-Tribromophenol	330	11.214	11.214	(0.928)	127461	20.0000	19.45
108 4-Bromophenyl-phenylether	248	11.530	11.530	(0.954)	139871	10.0000	10.26
109 Hexachlorobenzene	284	11.599	11.599	(0.959)	150271	10.0000	10.31
110 Pentachlorophenol	266	11.839	11.839	(0.979)	87025	10.0000	8.988
111 Phenanthrene	178	12.112	12.112	(1.002)	682941	10.0000	10.64
112 Anthracene	178	12.176	12.176	(1.007)	687219	10.0000	10.54
115 Di-n-butylphthalate	149	12.854	12.854	(1.063)	753632	10.0000	10.69
116 Fluoranthene	202	13.747	13.747	(1.137)	767107	10.0000	10.42
* 132 Chrysene-d12	240	16.247	16.247	(1.000)	2559360	40.0000	
134 Pyrene	202	14.099	14.099	(0.868)	781941	10.0000	10.50
$ 135 Terphenyl-d14	244	14.366	14.366	(0.884)	493476	10.0000	10.34
136 Butylbenzylphthalate	149	15.242	15.242	(0.938)	329821	10.0000	10.05

Data File: \\ELABNSH05\TARGET\chem\bna3.i\042911b3.b\SEQ-CAL2.D
Report Date: 30-Apr-2011 15:00

Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	AMOUNTS CAL-AMT (ng/ul)	AMOUNTS ON-COL (ng/ul)
138 Benzo(a)anthracene	228	16.220	16.220	(0.998)	727905	10.0000	10.16
139 Chrysene	228	16.289	16.289	(1.003)	698674	10.0000	10.42
140 Bis(2-ethylhexyl)phthalate	149	16.370	16.370	(1.008)	445360	10.0000	10.25
* 154 Perylene-d12	264	19.003	19.003	(1.000)	2562755	40.0000	
155 Di-n-octylphthalate	149	17.662	17.662	(0.929)	752274	10.0000	9.749
156 Benzo(b)fluoranthene	252	18.271	18.271	(0.961)	679440	10.0000	9.696
157 Benzo(k)fluoranthene	252	18.330	18.330	(0.965)	743246	10.0000	10.47
158 Benzo(a)pyrene	252	18.880	18.880	(0.994)	672544	10.0000	10.04
159 Indeno(1,2,3-cd)pyrene	276	21.194	21.194	(1.115)	616427	10.0000	9.269
160 Dibenz(a,h)anthracene	278	21.263	21.263	(1.119)	609041	10.0000	9.464
161 Benzo(g,h,i)perylene	276	21.835	21.835	(1.149)	658234	10.0000	9.944

Data File: \\ELABNSH05\TARGET\chem\bna3.i\042911b3.b\SEQ-CAL2.D
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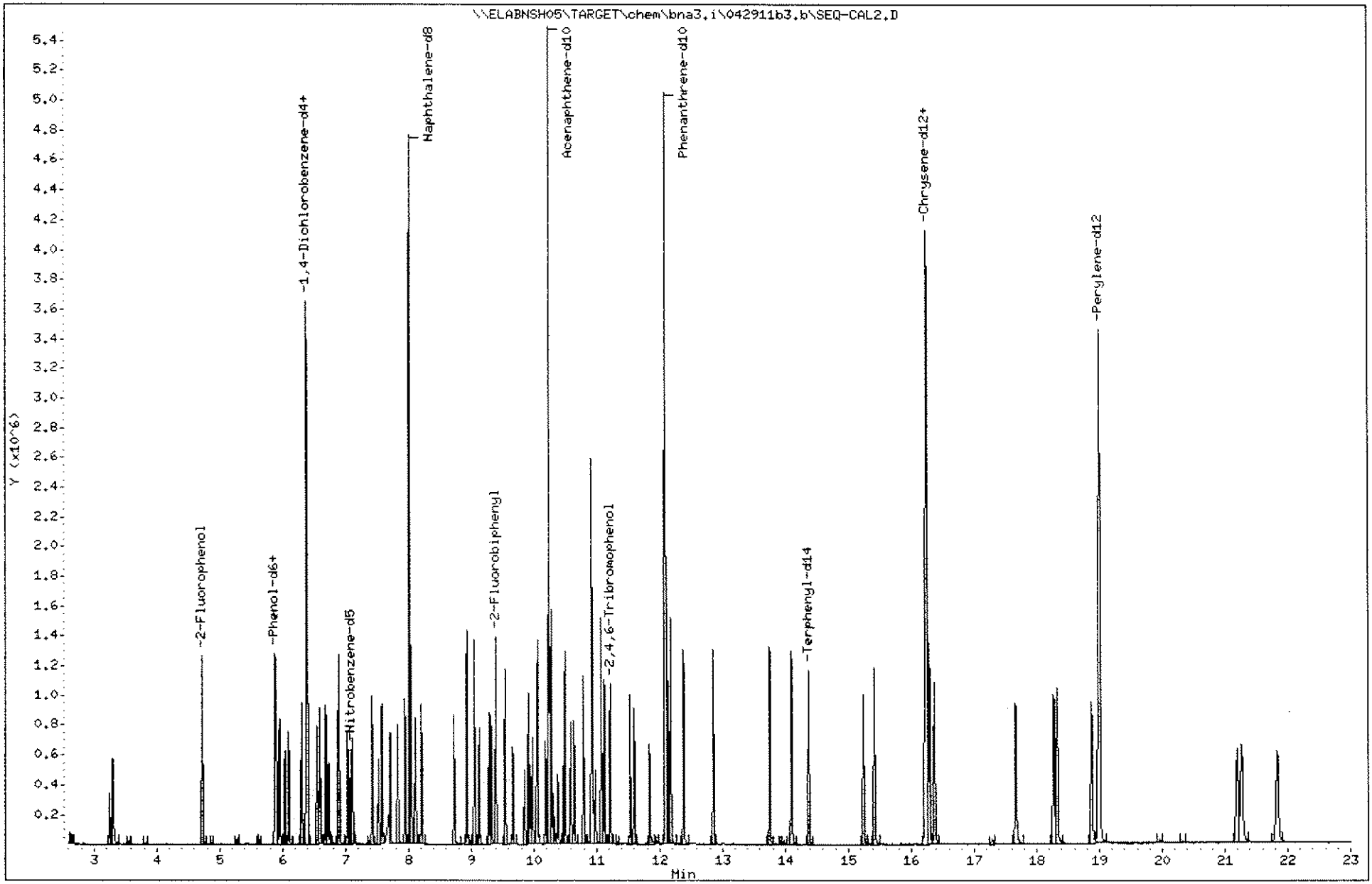
Instrument: bna3.i

Operator: HEC
Column diameter: 0.25



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Report Date: 30-Apr-2011 15:00

Laboratory Name

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Dil Factor: 1.00000
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Target Version: 4.04
Processing Host: TARGET09_VM

Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	AMOUNTS CAL-AMT (ng/ul)	AMOUNTS ON-COL (ng/ul)
* 1 1,4-Dichlorobenzene-d4	152	6.383	6.383	(1.000)	814971	40.0000	
$ 2 2-Fluorophenol	112	4.733	4.733	(0.741)	990794	40.0000	42.58
$ 3 Phenol-d6	99	5.897	5.897	(0.924)	1369018	40.0000	42.72
4 Pyridine	79	3.322	3.322	(0.520)	638173	20.0000	21.12
6 N-Nitroso-di-methylamine	42	3.279	3.279	(0.514)	292554	20.0000	20.97
7 Aniline	93	5.961	5.961	(0.934)	907249	20.0000	21.21
10 Phenol	94	5.913	5.913	(0.926)	725488	20.0000	21.10
11 bis(2-Chloroethyl)ether	93	6.047	6.047	(0.947)	559622	20.0000	21.16
12 2-Chlorophenol	128	6.105	6.105	(0.956)	566977	20.0000	21.16
13 1,3-Dichlorobenzene	146	6.308	6.308	(0.988)	619346	20.0000	21.29
14 1,4-Dichlorobenzene	146	6.405	6.405	(1.003)	620828	20.0000	21.09
15 Benzyl alcohol	108	6.560	6.560	(1.028)	383537	20.0000	21.72
16 1,2-Dichlorobenzene	146	6.597	6.597	(1.033)	581434	20.0000	21.08
17 2-Methylphenol	108	6.693	6.693	(1.049)	520421	20.0000	21.13
18 2,2'-Oxybis-1-chloropropane	45	6.736	6.736	(1.055)	851735	20.0000	21.47
19 3-Methylphenol	108	6.896	6.896	(1.080)	548766	20.0000	21.23
20 4-Methylphenol	108	6.896	6.896	(1.080)	548766	20.0000	21.23
21 N-Nitroso-di-n-propylamine	70	6.912	6.912	(1.083)	446470	20.0000	21.19
22 Hexachloroethane	117	7.035	7.035	(1.102)	233451	20.0000	20.97
* 33 Naphthalene-d8	136	8.023	8.023	(1.000)	2891640	40.0000	
$ 34 Nitrobenzene-d5	82	7.094	7.094	(0.884)	625463	20.0000	21.23
35 Nitrobenzene	77	7.120	7.120	(0.887)	632709	20.0000	21.30
39 Isophorone	82	7.436	7.436	(0.927)	1139853	20.0000	21.18
40 2-Nitrophenol	139	7.526	7.526	(0.938)	301474	20.0000	21.48
42 2,4-Dimethylphenol	107	7.585	7.585	(0.945)	553682	20.0000	21.06
43 Benzoic acid	105	7.740	7.740	(0.965)	395505	20.0000	20.42

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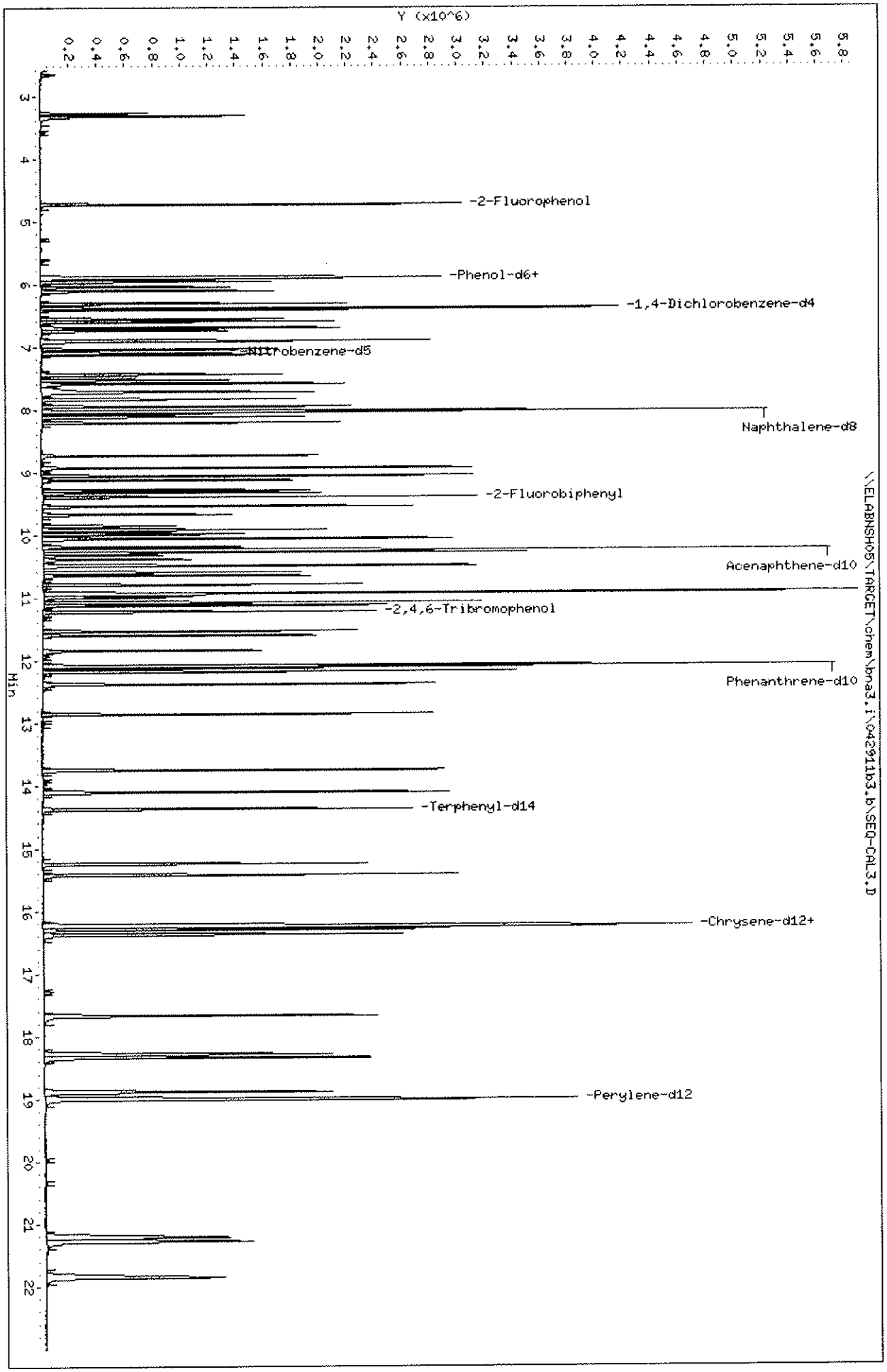
Data File: \\ELABNSH05\TARGET\chem\bna3.i\042911b3.b\SEQ-CAL3.D
Report Date: 30-Apr-2011 15:00

Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	AMOUNTS CAL-AMT (ng/ul)	AMOUNTS ON-COL (ng/ul)
44 bis(2-Chloroethoxy)methane	93	7.719	7.719	(0.962)	666189	20.0000	21.58
47 2,4-Dichlorophenol	162	7.836	7.836	(0.977)	466569	20.0000	21.18
50 1,2,4-Trichlorobenzene	180	7.949	7.949	(0.991)	524049	20.0000	21.18
51 Naphthalene	128	8.050	8.050	(1.003)	1555456	20.0000	21.60
52 4-Chloroaniline	127	8.114	8.114	(1.011)	661443	20.0000	21.65
53 Hexachlorobutadiene	225	8.205	8.205	(1.023)	285843	20.0000	21.16
54 4-Chloro-3-methylphenol	107	8.728	8.728	(1.088)	479326	20.0000	21.30
55 2-Methylnaphthalene	141	8.931	8.931	(1.113)	926020	20.0000	21.44
56 1-Methylnaphthalene	141	9.054	9.054	(1.128)	902181	20.0000	21.25
* 69 Acenaphthene-d10	164	10.246	10.246	(1.000)	1708666	40.0000	
70 Hexachlorocyclopentadiene	237	9.129	9.129	(0.891)	330482	20.0000	20.63
71 2,4,6-Trichlorophenol	196	9.284	9.284	(0.906)	340898	20.0000	20.89
72 2,4,5-Trichlorophenol	196	9.321	9.321	(0.910)	375983	20.0000	21.25
73 2-Chloronaphthalene	162	9.546	9.546	(0.932)	980374	20.0000	21.10
$ 74 2-Fluorobiphenyl	172	9.396	9.396	(0.917)	1130766	20.0000	20.92
75 2-Nitroaniline	65	9.674	9.674	(0.944)	329193	20.0000	20.83
76 Dimethylphthalate	163	9.920	9.920	(0.968)	1114578	20.0000	20.97
77 Acenaphthylene	152	10.064	10.064	(0.982)	1566866	20.0000	21.26
78 2,6-Dinitrotoluene	165	9.989	9.989	(0.975)	269328	20.0000	21.07
79 3-Nitroaniline	138	10.192	10.192	(0.995)	290491	20.0000	21.05
80 Acenaphthene	153	10.283	10.283	(1.004)	982225	20.0000	20.71
81 2,4-Dinitrophenol	184	10.320	10.320	(1.007)	157952	20.0000	19.94
83 4-Nitrophenol	65	10.390	10.390	(1.014)	241682	20.0000	20.79
84 Dibenzofuran	168	10.497	10.497	(1.025)	1371398	20.0000	20.91
85 2,4-Dinitrotoluene	165	10.486	10.486	(1.023)	348788	20.0000	20.78
86 Diethylphthalate	149	10.791	10.791	(1.053)	1072118	20.0000	21.01
87 4-Chlorophenyl-phenylether	204	10.924	10.924	(1.066)	541382	20.0000	20.33
88 Fluorene	166	10.924	10.924	(1.066)	1190766	20.0000	20.84
89 4-Nitroaniline	138	10.945	10.945	(1.068)	297279	20.0000	21.26
96 2,3,4,6-Tetrachlorophenol	232	10.646	10.646	(1.039)	299356	20.0000	20.98
* 102 Phenanthrene-d10	188	12.089	12.089	(1.000)	2805299	40.0000	
103 1,2-Diphenylhydrazine	77	11.122	11.122	(0.920)	1265596	20.0000	21.21
104 Carbazole	167	12.382	12.382	(1.024)	1520170	20.0000	20.75
105 4,6-Dinitro-2-methylphenol	198	10.988	10.988	(0.909)	216017	20.0000	21.18
106 N-Nitrosodiphenylamine	169	11.074	11.074	(0.916)	985023	20.0000	20.87
$ 107 2,4,6-Tribromophenol	330	11.223	11.223	(0.928)	312559	40.0000	40.56
108 4-Bromophenyl-phenylether	248	11.533	11.533	(0.954)	332437	20.0000	20.75
109 Hexachlorobenzene	284	11.603	11.603	(0.960)	354033	20.0000	20.66
110 Pentachlorophenol	266	11.843	11.843	(0.980)	241563	20.0000	21.22
111 Phenanthrene	178	12.115	12.115	(1.002)	1591762	20.0000	21.10
112 Anthracene	178	12.179	12.179	(1.008)	1609583	20.0000	21.00
115 Di-n-butylphthalate	149	12.858	12.858	(1.064)	1774961	20.0000	21.41
116 Fluoranthene	202	13.750	13.750	(1.137)	1822818	20.0000	21.06
* 132 Chrysene-d12	240	16.250	16.250	(1.000)	2995696	40.0000	
134 Pyrene	202	14.103	14.103	(0.868)	1859510	20.0000	21.34
$ 135 Terphenyl-d14	244	14.370	14.370	(0.884)	1178352	20.0000	21.08
136 Butylbenzylphthalate	149	15.246	15.246	(0.938)	817204	20.0000	21.27

Data File: \\ELABNSH05\TARGET\chem\bna3.i\042911b3.b\SEQ-CAL3.D
Report Date: 30-Apr-2011 15:00

Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	AMOUNTS CAL-AMT (ng/ul)	AMOUNTS ON-COL (ng/ul)
138 Benzo(a)anthracene	228	16.223	16.223	(0.998)	1793994	20.0000	21.40
139 Chrysene	228	16.293	16.293	(1.003)	1658164	20.0000	21.13
140 Bis(2-ethylhexyl)phthalate	149	16.368	16.368	(1.007)	1084520	20.0000	21.32
* 154 Perylene-d12	264	19.001	19.001	(1.000)	2979812	40.0000	
155 Di-n-octylphthalate	149	17.666	17.666	(0.930)	1916610	20.0000	21.36
156 Benzo(b)fluoranthene	252	18.286	18.286	(0.962)	1719041	20.0000	21.10
157 Benzo(k)fluoranthene	252	18.339	18.339	(0.965)	1716171	20.0000	20.80
158 Benzo(a)pyrene	252	18.884	18.884	(0.994)	1623122	20.0000	20.83
159 Indeno(1,2,3-cd)pyrene	276	21.208	21.208	(1.116)	1584990	20.0000	20.50
160 Dibenz(a,h)anthracene	278	21.277	21.277	(1.120)	1584302	20.0000	21.17
161 Benzo(g,h,i)perylene	276	21.854	21.854	(1.150)	1623509	20.0000	21.09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Nitrobenzene-d5
Naphthalene-d8
-2-Fluorobiphenyl
Acenaphthene-d10
-2,4,6-Tribromophenol
Phenanthrene-d10
-Terphenyl-d14
-Chrysene-d12+
-Perylene-d12
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Data File: \\ELABNSH05\TARGET\chem\bna3.i\042911b3.b\SEQ-CAL4.D
Report Date: 30-Apr-2011 15:00

Laboratory Name

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Processing Host: TARGET09_VM

	Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	AMOUNTS CAL-AMT (ng/ul)	AMOUNTS ON-COL (ng/ul)
*	1 1,4-Dichlorobenzene-d4	152	6.397	6.397	(1.000)	869244	40.0000	
$	2 2-Fluorophenol	112	4.751	4.751	(0.743)	1864232	80.0000	75.11
$	3 Phenol-d6	99	5.921	5.921	(0.926)	2546627	80.0000	74.50
	4 Pyridine	79	3.341	3.341	(0.522)	1233965	40.0000	38.29
	6 N-Nitroso-di-methylamine	42	3.298	3.298	(0.516)	565254	40.0000	37.99
	7 Aniline	93	5.985	5.985	(0.936)	1722879	40.0000	37.76
	10 Phenol	94	5.937	5.937	(0.928)	1370867	40.0000	37.38
	11 bis(2-Chloroethyl)ether	93	6.065	6.065	(0.948)	1049997	40.0000	37.23
	12 2-Chlorophenol	128	6.129	6.129	(0.958)	1067895	40.0000	37.37
	13 1,3-Dichlorobenzene	146	6.322	6.322	(0.988)	1148162	40.0000	37.00
	14 1,4-Dichlorobenzene	146	6.423	6.423	(1.004)	1172697	40.0000	37.35
	15 Benzyl alcohol	108	6.584	6.584	(1.029)	702516	40.0000	37.30
	16 1,2-Dichlorobenzene	146	6.610	6.610	(1.033)	1091638	40.0000	37.11
	17 2-Methylphenol	108	6.712	6.712	(1.049)	983950	40.0000	37.46
	18 2,2'-Oxybis-1-chloropropane	45	6.754	6.754	(1.056)	1566178	40.0000	37.01
	19 3-Methylphenol	108	6.925	6.925	(1.083)	1034591	40.0000	37.53
	20 4-Methylphenol	108	6.925	6.925	(1.083)	1034591	40.0000	37.53
	21 N-Nitroso-di-n-propylamine	70	6.947	6.947	(1.086)	837966	40.0000	37.29
	22 Hexachloroethane	117	7.048	7.048	(1.102)	442835	40.0000	37.29
*	33 Naphthalene-d8	136	8.037	8.037	(1.000)	3033838	40.0000	
$	34 Nitrobenzene-d5	82	7.112	7.112	(0.885)	1182018	40.0000	38.24
	35 Nitrobenzene	77	7.139	7.139	(0.888)	1185773	40.0000	38.06
	39 Isophorone	82	7.465	7.465	(0.929)	2134222	40.0000	37.81
	40 2-Nitrophenol	139	7.545	7.545	(0.939)	567398	40.0000	38.53
	42 2,4-Dimethylphenol	107	7.604	7.604	(0.946)	1036287	40.0000	37.57
	43 Benzoic acid	105	7.796	7.796	(0.970)	803344	40.0000	39.53

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Data File: \\ELABNSH05\TARGET\chem\bna3.i\042911b3.b\SEQ-CAL4.D
Report Date: 30-Apr-2011 15:00

Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	AMOUNTS CAL-AMT (ng/ul)	AMOUNTS ON-COL (ng/ul)
44 bis(2-Chloroethoxy)methane	93	7.732	7.732	(0.962)	1219350	40.0000	37.65
47 2,4-Dichlorophenol	162	7.855	7.855	(0.977)	874607	40.0000	37.85
50 1,2,4-Trichlorobenzene	180	7.962	7.962	(0.991)	973774	40.0000	37.52
51 Naphthalene	128	8.063	8.063	(1.003)	2811066	40.0000	37.22
52 4-Chloroaniline	127	8.133	8.133	(1.012)	1207621	40.0000	37.68
53 Hexachlorobutadiene	225	8.218	8.218	(1.023)	533397	40.0000	37.64
54 4-Chloro-3-methylphenol	107	8.747	8.747	(1.088)	900643	40.0000	38.14
55 2-Methylnaphthalene	141	8.945	8.945	(1.113)	1688309	40.0000	37.26
56 1-Methylnaphthalene	141	9.068	9.068	(1.128)	1660632	40.0000	37.28
* 69 Acenaphthene-d10	164	10.259	10.259	(1.000)	1785083	40.0000	
70 Hexachlorocyclopentadiene	237	9.142	9.142	(0.891)	639033	40.0000	38.19
71 2,4,6-Trichlorophenol	196	9.297	9.297	(0.906)	641270	40.0000	37.62
72 2,4,5-Trichlorophenol	196	9.340	9.340	(0.910)	689519	40.0000	37.30
73 2-Chloronaphthalene	162	9.559	9.559	(0.932)	1765095	40.0000	36.36
$ 74 2-Fluorobiphenyl	172	9.410	9.410	(0.917)	2074705	40.0000	36.74
75 2-Nitroaniline	65	9.693	9.693	(0.945)	623586	40.0000	37.76
76 Dimethylphthalate	163	9.944	9.944	(0.969)	2058728	40.0000	37.07
77 Acenaphthylene	152	10.083	10.083	(0.983)	2815980	40.0000	36.58
78 2,6-Dinitrotoluene	165	10.008	10.008	(0.976)	493990	40.0000	37.00
79 3-Nitroaniline	138	10.211	10.211	(0.995)	537098	40.0000	37.25
80 Acenaphthene	153	10.302	10.302	(1.004)	1812020	40.0000	36.57
81 2,4-Dinitrophenol	184	10.339	10.339	(1.008)	321928	40.0000	38.90
83 4-Nitrophenol	65	10.414	10.414	(1.015)	474077	40.0000	39.03
84 Dibenzofuran	168	10.515	10.515	(1.025)	2482137	40.0000	36.23
85 2,4-Dinitrotoluene	165	10.510	10.510	(1.024)	645101	40.0000	36.78
86 Diethylphthalate	149	10.809	10.809	(1.054)	1938094	40.0000	36.35
87 4-Chlorophenyl-phenylether	204	10.943	10.943	(1.067)	1022896	40.0000	36.77
88 Fluorene	166	10.943	10.943	(1.067)	2200222	40.0000	36.86
89 4-Nitroaniline	138	10.975	10.975	(1.070)	556303	40.0000	38.09
96 2,3,4,6-Tetrachlorophenol	232	10.665	10.665	(1.040)	547402	40.0000	36.72
* 102 Phenanthrene-d10	188	12.102	12.102	(1.000)	2890263	40.0000	
103 1,2-Diphenylhydrazine	77	11.140	11.140	(0.921)	2286376	40.0000	37.20
104 Carbazole	167	12.401	12.401	(1.025)	2799504	40.0000	37.10
105 4,6-Dinitro-2-methylphenol	198	11.012	11.012	(0.910)	420247	40.0000	40.00
106 N-Nitrosodiphenylamine	169	11.092	11.092	(0.917)	1800448	40.0000	37.03
$ 107 2,4,6-Tribromophenol	330	11.242	11.242	(0.929)	596829	80.0000	75.18
108 4-Bromophenyl-phenylether	248	11.546	11.546	(0.954)	613658	40.0000	37.17
109 Hexachlorobenzene	284	11.616	11.616	(0.960)	658427	40.0000	37.29
110 Pentachlorophenol	266	11.862	11.862	(0.980)	449451	40.0000	38.32
111 Phenanthrene	178	12.134	12.134	(1.003)	2861742	40.0000	36.81
112 Anthracene	178	12.198	12.198	(1.008)	2922097	40.0000	37.01
115 Di-n-butylphthalate	149	12.871	12.871	(1.064)	3159293	40.0000	36.99
116 Fluoranthene	202	13.774	13.774	(1.138)	3324544	40.0000	37.29
* 132 Chrysene-d12	240	16.274	16.274	(1.000)	3117288	40.0000	
134 Pyrene	202	14.127	14.127	(0.868)	3375149	40.0000	37.21
$ 135 Terphenyl-d14	244	14.388	14.388	(0.884)	2170088	40.0000	37.32
136 Butylbenzylphthalate	149	15.265	15.265	(0.938)	1513360	40.0000	37.86

Data File: \\ELABNSH05\TARGET\chem\bna3.i\042911b3.b\SEQ-CAL4.D
Report Date: 30-Apr-2011 15:00

Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	AMOUNTS CAL-AMT (ng/ul)	AMOUNTS ON-COL (ng/ul)
138 Benzo(a)anthracene	228	16.253	16.253	(0.999)	3327860	40.0000	38.15
139 Chrysene	228	16.322	16.322	(1.003)	2996518	40.0000	36.69
140 Bis(2-ethylhexyl)phthalate	149	16.392	16.392	(1.007)	1992620	40.0000	37.64
* 154 Perylene-d12	264	19.031	19.031	(1.000)	3094041	40.0000	
155 Di-n-octylphthalate	149	17.690	17.690	(0.930)	3565437	40.0000	38.27
156 Benzo(b)fluoranthene	252	18.315	18.315	(0.962)	3262030	40.0000	38.56
157 Benzo(k)fluoranthene	252	18.368	18.368	(0.965)	3098004	40.0000	36.16
158 Benzo(a)pyrene	252	18.919	18.919	(0.994)	3027253	40.0000	37.42
159 Indeno(1,2,3-cd)pyrene	276	21.258	21.258	(1.117)	3120636	40.0000	38.87
160 Dibenz(a,h)anthracene	278	21.328	21.328	(1.121)	2950525	40.0000	37.97
161 Benzo(g,h,i)perylene	276	21.910	21.910	(1.151)	3020534	40.0000	37.80

Data File: \\ELABNSHO5\TARGET\chem\bna3.i\042911b3.b\SEQ-CAL4.D
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Operator: MEC
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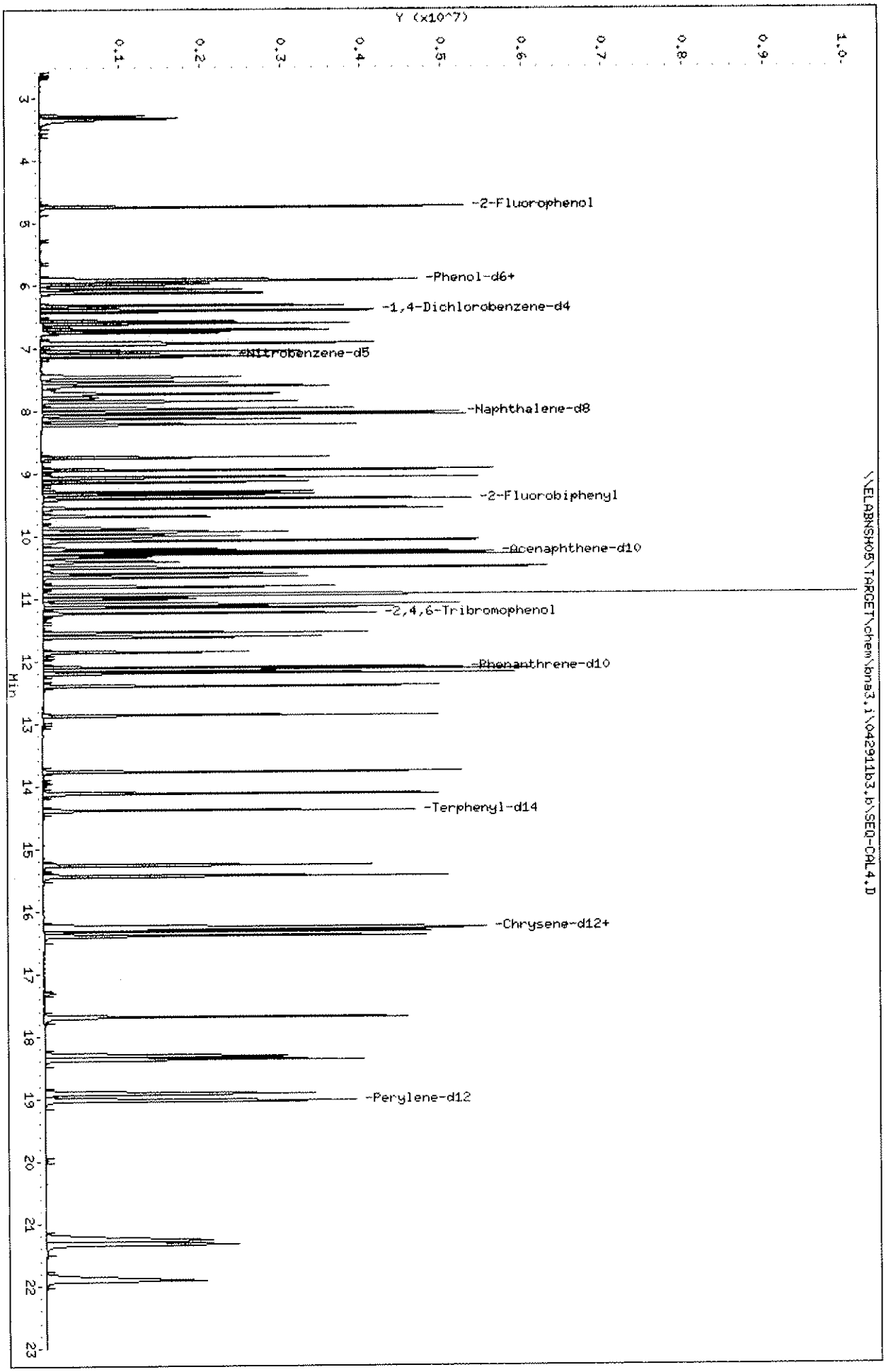

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Report Date: 30-Apr-2011 15:14

Laboratory Name

Data file : \\ELABNSH05\TARGET\chem\bna3.i\042911b3.b\SEQ-CAL5.D
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							AMOUNTS	
	Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	CAL-AMT (ng/ul)	ON-COL (ng/ul)
*	1 1,4-Dichlorobenzene-d4	152	6.389	6.389	(1.000)	473419	40.0000	
$	2 2-Fluorophenol	112	4.738	4.738	(0.742)	1297778	100.000	96.00
$	3 Phenol-d6	99	5.908	5.908	(0.925)	1790905	100.000	96.20
	4 Pyridine	79	3.306	3.306	(0.518)	845986	50.0000	48.20
	6 N-Nitroso-di-methylamine	42	3.264	3.264	(0.511)	390059	50.0000	48.14
	7 Aniline	93	5.967	5.967	(0.934)	1168312	50.0000	47.02
	10 Phenol	94	5.924	5.924	(0.927)	950343	50.0000	47.58
	11 bis(2-Chloroethyl)ether	93	6.052	6.052	(0.947)	733690	50.0000	47.76
	12 2-Chlorophenol	128	6.116	6.116	(0.957)	744640	50.0000	47.84
	13 1,3-Dichlorobenzene	146	6.314	6.314	(0.988)	801916	50.0000	47.46
	14 1,4-Dichlorobenzene	146	6.416	6.416	(1.004)	816369	50.0000	47.74
	15 Benzyl alcohol	108	6.565	6.565	(1.028)	493935	50.0000	48.15
	16 1,2-Dichlorobenzene	146	6.603	6.603	(1.033)	765473	50.0000	47.78
	17 2-Methylphenol	108	6.699	6.699	(1.048)	691123	50.0000	48.31
	18 2,2'-Oxybis-1-chloropropane	45	6.747	6.747	(1.056)	1108370	50.0000	48.10
	19 3-Methylphenol	108	6.907	6.907	(1.081)	713997	50.0000	47.56
	20 4-Methylphenol	108	6.907	6.907	(1.081)	713997	50.0000	47.56
	21 N-Nitroso-di-n-propylamine	70	6.923	6.923	(1.084)	586503	50.0000	47.93
	22 Hexachloroethane	117	7.041	7.041	(1.102)	308615	50.0000	47.72
*	33 Naphthalene-d8	136	8.029	8.029	(1.000)	1697246	40.0000	
$	34 Nitrobenzene-d5	82	7.105	7.105	(0.885)	818001	50.0000	47.30
	35 Nitrobenzene	77	7.131	7.131	(0.888)	830342	50.0000	47.64
	39 Isophorone	82	7.447	7.447	(0.927)	1487901	50.0000	47.11
	40 2-Nitrophenol	139	7.537	7.537	(0.939)	394455	50.0000	47.88
	42 2,4-Dimethylphenol	107	7.596	7.596	(0.946)	729832	50.0000	47.30
	43 Benzoic acid	105	7.772	7.772	(0.968)	554962	50.0000	48.81

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Data File: \\ELABNSH05\TARGET\chem\bna3.i\042911b3.b\SEQ-CAL5.D
Report Date: 30-Apr-2011 15:14

Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	AMOUNTS CAL-AMT (ng/ul)	AMOUNTS ON-COL (ng/ul)
44 bis(2-Chloroethoxy)methane	93	7.730	7.730	(0.963)	849555	50.0000	46.89
47 2,4-Dichlorophenol	162	7.847	7.847	(0.977)	614804	50.0000	47.56
50 1,2,4-Trichlorobenzene	180	7.954	7.954	(0.991)	680855	50.0000	46.89
51 Naphthalene	128	8.056	8.056	(1.003)	2000650	50.0000	47.34
52 4-Chloroaniline	127	8.125	8.125	(1.012)	856103	50.0000	47.75
53 Hexachlorobutadiene	225	8.216	8.216	(1.023)	378092	50.0000	47.69
54 4-Chloro-3-methylphenol	107	8.739	8.739	(1.088)	624328	50.0000	47.26
55 2-Methylnaphthalene	141	8.937	8.937	(1.113)	1193824	50.0000	47.10
56 1-Methylnaphthalene	141	9.065	9.065	(1.129)	1177455	50.0000	47.25
* 69 Acenaphthene-d10	164	10.251	10.251	(1.000)	970176	40.0000	
70 Hexachlorocyclopentadiene	237	9.135	9.135	(0.891)	449072	50.0000	49.38
71 2,4,6-Trichlorophenol	196	9.290	9.290	(0.906)	441995	50.0000	47.70
72 2,4,5-Trichlorophenol	196	9.332	9.332	(0.910)	489047	50.0000	48.67
73 2-Chloronaphthalene	162	9.551	9.551	(0.932)	1260245	50.0000	47.77
$ 74 2-Fluorobiphenyl	172	9.407	9.407	(0.918)	1482433	50.0000	48.30
75 2-Nitroaniline	65	9.680	9.680	(0.944)	436347	50.0000	48.62
76 Dimethylphthalate	163	9.931	9.931	(0.969)	1444685	50.0000	47.86
77 Acenaphthylene	152	10.075	10.075	(0.983)	2000565	50.0000	47.81
78 2,6-Dinitrotoluene	165	10.000	10.000	(0.976)	348759	50.0000	48.06
79 3-Nitroaniline	138	10.203	10.203	(0.995)	378578	50.0000	48.31
80 Acenaphthene	153	10.294	10.294	(1.004)	1292747	50.0000	48.00
81 2,4-Dinitrophenol	184	10.331	10.331	(1.008)	220727	50.0000	49.08
83 4-Nitrophenol	65	10.401	10.401	(1.015)	332741	50.0000	50.40
84 Dibenzofuran	168	10.508	10.508	(1.025)	1778526	50.0000	47.77
85 2,4-Dinitrotoluene	165	10.497	10.497	(1.024)	454640	50.0000	47.70
86 Diethylphthalate	149	10.801	10.801	(1.054)	1397552	50.0000	48.23
87 4-Chlorophenyl-phenylether	204	10.935	10.935	(1.067)	716462	50.0000	47.39
88 Fluorene	166	10.935	10.935	(1.067)	1556652	50.0000	47.98
89 4-Nitroaniline	138	10.967	10.967	(1.070)	394823	50.0000	49.74
96 2,3,4,6-Tetrachlorophenol	232	10.657	10.657	(1.040)	388908	50.0000	48.00
* 102 Phenanthrene-d10	188	12.094	12.094	(1.000)	1609148	40.0000	
103 1,2-Diphenylhydrazine	77	11.133	11.133	(0.920)	1632827	50.0000	47.71
104 Carbazole	167	12.393	12.393	(1.025)	1992085	50.0000	47.41
105 4,6-Dinitro-2-methylphenol	198	11.004	11.004	(0.910)	294135	50.0000	50.28
106 N-Nitrosodiphenylamine	169	11.090	11.090	(0.917)	1287300	50.0000	47.56
$ 107 2,4,6-Tribromophenol	330	11.234	11.234	(0.929)	416585	100.000	94.25
108 4-Bromophenyl-phenylether	248	11.544	11.544	(0.955)	435156	50.0000	47.34
109 Hexachlorobenzene	284	11.608	11.608	(0.960)	463588	50.0000	47.16
110 Pentachlorophenol	266	11.854	11.854	(0.980)	321666	50.0000	49.26
111 Phenanthrene	178	12.126	12.126	(1.003)	2057105	50.0000	47.53
112 Anthracene	178	12.190	12.190	(1.008)	2095521	50.0000	47.67
115 Di-n-butylphthalate	149	12.869	12.869	(1.064)	2293963	50.0000	48.24
116 Fluoranthene	202	13.766	13.766	(1.138)	2370526	50.0000	47.76
* 132 Chrysene-d12	240	16.261	16.261	(1.000)	1722869	40.0000	
134 Pyrene	202	14.119	14.119	(0.868)	2402362	50.0000	47.93
$ 135 Terphenyl-d14	244	14.381	14.381	(0.884)	1538383	50.0000	47.86
136 Butylbenzylphthalate	149	15.257	15.257	(0.938)	1078203	50.0000	48.80

Data File: \\ELABNSH05\TARGET\chem\bna3.i\042911b3.b\SEQ-CAL5.D
Report Date: 30-Apr-2011 15:14

Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	AMOUNTS CAL-AMT (ng/ul)	AMOUNTS ON-COL (ng/ul)
138 Benzo(a)anthracene	228	16.240	16.240	(0.999)	2294603	50.0000	47.60
139 Chrysene	228	16.315	16.315	(1.003)	2184545	50.0000	48.40
140 Bis(2-ethylhexyl)phthalate	149	16.384	16.384	(1.008)	1437915	50.0000	49.14
* 154 Perylene-d12	264	19.012	19.012	(1.000)	1702026	40.0000	
155 Di-n-octylphthalate	149	17.682	17.682	(0.930)	2525772	50.0000	49.29
156 Benzo(b)fluoranthene	252	18.302	18.302	(0.963)	2214472	50.0000	47.58
157 Benzo(k)fluoranthene	252	18.361	18.361	(0.966)	2267046	50.0000	48.10
158 Benzo(a)pyrene	252	18.905	18.905	(0.994)	2159424	50.0000	48.52
159 Indeno(1,2,3-cd)pyrene	276	21.240	21.240	(1.117)	2095396	50.0000	47.44
160 Dibenz(a,h)anthracene	278	21.309	21.309	(1.121)	2088589	50.0000	48.86
161 Benzo(g,h,i)perylene	276	21.897	21.897	(1.152)	2118349	50.0000	48.19

Data File: \\ELABNSHO5\TARGET\chem\bma3.i\042911b3.b\SEQ-CAL5.D
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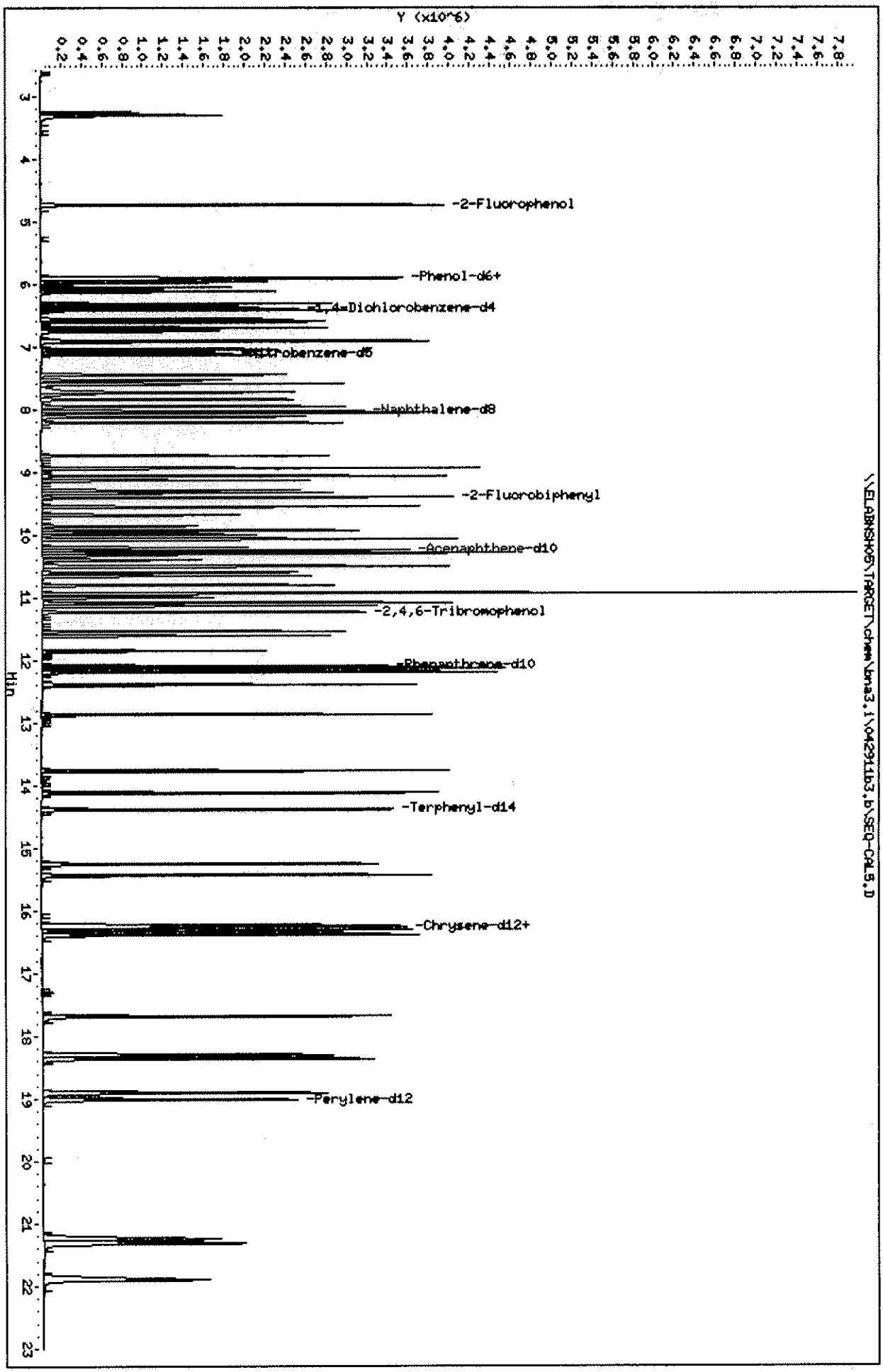

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Report Date: 30-Apr-2011 15:01

Laboratory Name

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							AMOUNTS	
		QUANT SIG					CAL-AMT	ON-COL
	Compounds	MASS	RT	EXP RT	REL RT	RESPONSE	(ng/ul)	(ng/ul)
*	1 1,4-Dichlorobenzene-d4	152	6.386	6.386	(1.000)	555277	40.0000	
$	2 2-Fluorophenol	112	4.730	4.730	(0.741)	1901047	120.000	119.9(A)
$	3 Phenol-d6	99	5.911	5.911	(0.926)	2617214	120.000	119.8(A)
	4 Pyridine	79	3.299	3.299	(0.517)	1245984	60.0000	60.53
	6 N-Nitroso-di-methylamine	42	3.256	3.256	(0.510)	575983	60.0000	60.60
	7 Aniline	93	5.964	5.964	(0.934)	1760734	60.0000	60.42
	10 Phenol	94	5.927	5.927	(0.928)	1414688	60.0000	60.38
	11 bis(2-Chloroethyl)ether	93	6.050	6.050	(0.947)	1079066	60.0000	59.89
	12 2-Chlorophenol	128	6.114	6.114	(0.957)	1104074	60.0000	60.48
	13 1,3-Dichlorobenzene	146	6.312	6.312	(0.988)	1180491	60.0000	59.56
	14 1,4-Dichlorobenzene	146	6.408	6.408	(1.003)	1195215	60.0000	59.58
	15 Benzyl alcohol	108	6.568	6.568	(1.028)	725512	60.0000	60.30
	16 1,2-Dichlorobenzene	146	6.600	6.600	(1.033)	1119090	60.0000	59.55
	17 2-Methylphenol	108	6.696	6.696	(1.049)	1014919	60.0000	60.49
	18 2,2'-Oxybis-1-chloropropane	45	6.744	6.744	(1.056)	1617469	60.0000	59.84
	19 3-Methylphenol	108	6.910	6.910	(1.082)	1067609	60.0000	60.63
	20 4-Methylphenol	108	6.910	6.910	(1.082)	1067609	60.0000	60.63
	21 N-Nitroso-di-n-propylamine	70	6.921	6.921	(1.084)	867978	60.0000	60.47
	22 Hexachloroethane	117	7.033	7.033	(1.101)	457893	60.0000	60.36
*	33 Naphthalene-d8	136	8.027	8.027	(1.000)	1990246	40.0000	
$	34 Nitrobenzene-d5	82	7.102	7.102	(0.885)	1225960	60.0000	60.46
	35 Nitrobenzene	77	7.129	7.129	(0.888)	1226961	60.0000	60.03
	39 Isophorone	82	7.450	7.450	(0.928)	2222053	60.0000	60.00
	40 2-Nitrophenol	139	7.535	7.535	(0.939)	591106	60.0000	61.19
	42 2,4-Dimethylphenol	107	7.594	7.594	(0.946)	1087589	60.0000	60.11
	43 Benzoic acid	105	7.797	7.797	(0.971)	859242	60.0000	64.45

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Data File: \\ELABNSH05\TARGET\chem\bna3.i\042911b3.b\SEQ-CAL6.D
Report Date: 30-Apr-2011 15:01

Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	AMOUNTS CAL-AMT (ng/ul)	AMOUNTS ON-COL (ng/ul)
44 bis(2-Chloroethoxy)methane	93	7.727	7.727	(0.963)	1262009	60.0000	59.40
47 2,4-Dichlorophenol	162	7.845	7.845	(0.977)	916298	60.0000	60.44
50 1,2,4-Trichlorobenzene	180	7.952	7.952	(0.991)	1010811	60.0000	59.37
51 Naphthalene	128	8.053	8.053	(1.003)	2907621	60.0000	58.68
52 4-Chloroaniline	127	8.123	8.123	(1.012)	1247370	60.0000	59.33
53 Hexachlorobutadiene	225	8.208	8.208	(1.023)	553207	60.0000	59.50
54 4-Chloro-3-methylphenol	107	8.737	8.737	(1.089)	922410	60.0000	59.54
55 2-Methylnaphthalene	141	8.935	8.935	(1.113)	1760549	60.0000	59.23
56 1-Methylnaphthalene	141	9.058	9.058	(1.128)	1723323	60.0000	58.98
* 69 Acenaphthene-d10	164	10.249	10.249	(1.000)	1132811	40.0000	
70 Hexachlorocyclopentadiene	237	9.132	9.132	(0.891)	673388	60.0000	63.41
71 2,4,6-Trichlorophenol	196	9.287	9.287	(0.906)	671928	60.0000	62.11
72 2,4,5-Trichlorophenol	196	9.330	9.330	(0.910)	711881	60.0000	60.68
73 2-Chloronaphthalene	162	9.549	9.549	(0.932)	1834381	60.0000	59.55
$ 74 2-Fluorobiphenyl	172	9.399	9.399	(0.917)	2138632	60.0000	59.68
75 2-Nitroaniline	65	9.683	9.683	(0.945)	646369	60.0000	61.68
76 Dimethylphthalate	163	9.934	9.934	(0.969)	2099879	60.0000	59.58
77 Acenaphthylene	152	10.073	10.073	(0.983)	2901293	60.0000	59.38
78 2,6-Dinitrotoluene	165	9.998	9.998	(0.976)	512533	60.0000	60.49
79 3-Nitroaniline	138	10.206	10.206	(0.996)	553695	60.0000	60.51
80 Acenaphthene	153	10.292	10.292	(1.004)	1901180	60.0000	60.46
81 2,4-Dinitrophenol	184	10.329	10.329	(1.008)	340916	60.0000	64.92
83 4-Nitrophenol	65	10.404	10.404	(1.015)	502158	60.0000	65.15
84 Dibenzofuran	168	10.505	10.505	(1.025)	2585730	60.0000	59.48
85 2,4-Dinitrotoluene	165	10.495	10.495	(1.024)	678889	60.0000	61.00
86 Diethylphthalate	149	10.804	10.804	(1.054)	2022148	60.0000	59.76
87 4-Chlorophenyl-phenylether	204	10.933	10.933	(1.067)	1066984	60.0000	60.44
88 Fluorene	166	10.933	10.933	(1.067)	2297757	60.0000	60.66
89 4-Nitroaniline	138	10.975	10.975	(1.071)	577249	60.0000	62.28
96 2,3,4,6-Tetrachlorophenol	232	10.650	10.650	(1.039)	575967	60.0000	60.88
* 102 Phenanthrene-d10	188	12.092	12.092	(1.000)	1876731	40.0000	
103 1,2-Diphenylhydrazine	77	11.130	11.130	(0.920)	2388158	60.0000	59.83
104 Carbazole	167	12.391	12.391	(1.025)	2914191	60.0000	59.47
105 4,6-Dinitro-2-methylphenol	198	11.002	11.002	(0.910)	439724	60.0000	64.45
106 N-Nitrosodiphenylamine	169	11.088	11.088	(0.917)	1880970	60.0000	59.58
$ 107 2,4,6-Tribromophenol	330	11.232	11.232	(0.929)	631013	120.000	122.4(A)
108 4-Bromophenyl-phenylether	248	11.536	11.536	(0.954)	642282	60.0000	59.92
109 Hexachlorobenzene	284	11.606	11.606	(0.960)	687744	60.0000	59.99
110 Pentachlorophenol	266	11.846	11.846	(0.980)	486741	60.0000	63.92
111 Phenanthrene	178	12.124	12.124	(1.003)	2995896	60.0000	59.35
112 Anthracene	178	12.188	12.188	(1.008)	3022000	60.0000	58.95
115 Di-n-butylphthalate	149	12.861	12.861	(1.064)	3305817	60.0000	59.61
116 Fluoranthene	202	13.764	13.764	(1.138)	3483557	60.0000	60.18
* 132 Chrysene-d12	240	16.259	16.259	(1.000)	2027618	40.0000	
134 Pyrene	202	14.117	14.117	(0.868)	3529509	60.0000	59.83
$ 135 Terphenyl-d14	244	14.378	14.378	(0.884)	2290952	60.0000	60.56
136 Butylbenzylphthalate	149	15.249	15.249	(0.938)	1601878	60.0000	61.60

Data File: \\ELABNSH05\TARGET\chem\bna3.i\042911b3.b\SEQ-CAL6.D
Report Date: 30-Apr-2011 15:01

Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	AMOUNTS CAL-AMT (ng/ul)	AMOUNTS ON-COL (ng/ul)
138 Benzo(a)anthracene	228	16.232	16.232	(0.998)	3433182	60.0000	60.51
139 Chrysene	228	16.312	16.312	(1.003)	3182062	60.0000	59.91
140 Bis(2-ethylhexyl)phthalate	149	16.376	16.376	(1.007)	2101040	60.0000	61.02
* 154 Perylene-d12	264	19.010	19.010	(1.000)	1977191	40.0000	
155 Di-n-octylphthalate	149	17.680	17.680	(0.930)	3715512	60.0000	62.41
156 Benzo(b)fluoranthene	252	18.299	18.299	(0.963)	3290325	60.0000	60.86
157 Benzo(k)fluoranthene	252	18.358	18.358	(0.966)	3341357	60.0000	61.02
158 Benzo(a)pyrene	252	18.908	18.908	(0.995)	3180626	60.0000	61.52
159 Indeno(1,2,3-cd)pyrene	276	21.243	21.243	(1.117)	3278099	60.0000	63.89
160 Dibenz(a,h)anthracene	278	21.318	21.318	(1.121)	3116500	60.0000	62.77
161 Benzo(g,h,i)perylene	276	21.900	21.900	(1.152)	3181314	60.0000	62.30

QC Flag Legend

A - Target compound detected but, quantitated amount exceeded maximum amount.

Data File: \\ELABNSH05\TARGET\chem\bna3.i\042911b3.b\SEQ-CAL6.D
Date : 29-APR-2011 20:31
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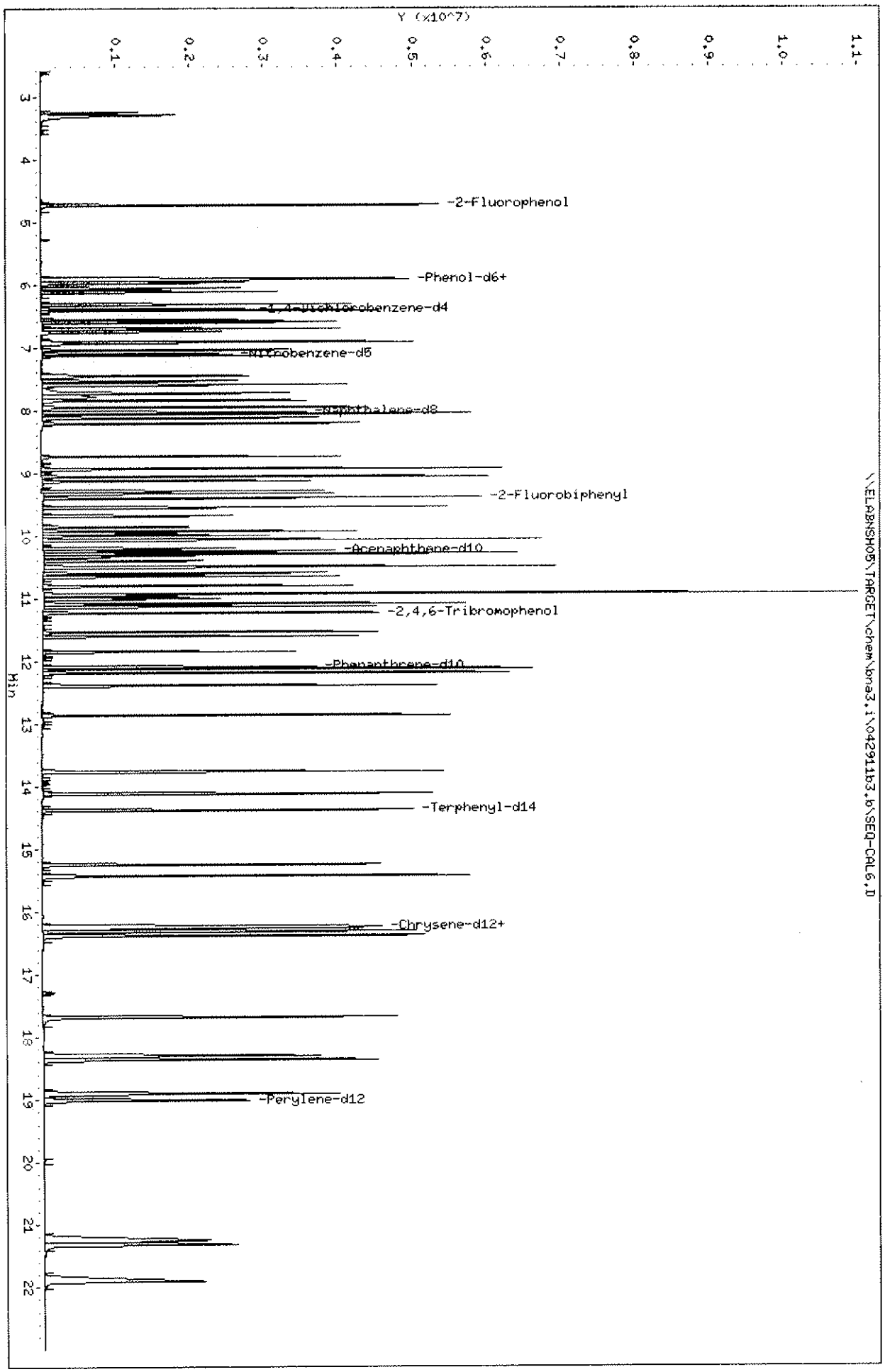
Sample Info: CAL60,0PPM;;;;;11D0221
Column phase: fused silica

Instrument: bna3.i
Operator: MEC
Column diameter: 0.25



Data File: \\ELABNSH05\TARGET\chem\bna3.i\042911b3.b\SEQ-CAL7.D
Report Date: 30-Apr-2011 15:01

Laboratory Name

Data file : \\ELABNSH05\TARGET\chem\bna3.i\042911b3.b\SEQ-CAL7.D
Lab Smp Id: SEQ-CAL7 Client Smp ID: SEQ-CAL7
Inj Date : 29-APR-2011 21:04 MS Autotune Date: 07-SEP-2010 05:33
Operator : MEC Inst ID: bna3.i
Smp Info : CAL80.0PPM;;;;;;11D0222
Misc Info : ;;;;;;cal_1.sub;
Comment :
Method : \\ELABNSH05\TARGET\chem\bna3.i\042911b3.b\IXBN3.m
Meth Date : 30-Apr-2011 15:01 mcobb Quant Type: ISTD
Cal Date : 29-APR-2011 22:09 Cal File: SEQ-CAL9.D
Als bottle: 8 Calibration Sample, Level: 7
Dil Factor: 1.00000
Integrator: HP RTE Compound Sublist: cal_1.sub
Target Version: 4.04
Processing Host: TARGET09_VM

Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	AMOUNTS CAL-AMT (ng/ul)	AMOUNTS ON-COL (ng/ul)
* 1 1,4-Dichlorobenzene-d4	152	6.391	6.391	(1.000)	545685	40.0000	
$ 2 2-Fluorophenol	112	4.740	4.740	(0.742)	2403745	160.000	154.3(A)
$ 3 Phenol-d6	99	5.921	5.921	(0.926)	3335269	160.000	155.4(A)
4 Pyridine	79	3.308	3.308	(0.518)	1603420	80.0000	79.26
6 N-Nitroso-di-methylamine	42	3.266	3.266	(0.511)	738942	80.0000	79.12
7 Aniline	93	5.980	5.980	(0.936)	2242316	80.0000	78.29
10 Phenol	94	5.942	5.942	(0.930)	1809353	80.0000	78.59
11 bis(2-Chloroethyl)ether	93	6.065	6.065	(0.949)	1372549	80.0000	77.52
12 2-Chlorophenol	128	6.124	6.124	(0.958)	1402917	80.0000	78.20
13 1,3-Dichlorobenzene	146	6.321	6.321	(0.989)	1499688	80.0000	77.00
14 1,4-Dichlorobenzene	146	6.418	6.418	(1.004)	1519551	80.0000	77.09
15 Benzyl alcohol	108	6.578	6.578	(1.029)	955373	80.0000	80.80
16 1,2-Dichlorobenzene	146	6.610	6.610	(1.034)	1422705	80.0000	77.04
17 2-Methylphenol	108	6.711	6.711	(1.050)	1294555	80.0000	78.51
18 2,2'-Oxybis-1-chloropropane	45	6.754	6.754	(1.057)	2063596	80.0000	77.69
19 3-Methylphenol	108	6.925	6.925	(1.084)	1367290	80.0000	79.02
20 4-Methylphenol	108	6.925	6.925	(1.084)	1367290	80.0000	79.02
21 N-Nitroso-di-n-propylamine	70	6.936	6.936	(1.085)	1110305	80.0000	78.71(M)
22 Hexachloroethane	117	7.043	7.043	(1.102)	579188	80.0000	77.69
* 33 Naphthalene-d8	136	8.036	8.036	(1.000)	1970748	40.0000	
$ 34 Nitrobenzene-d5	82	7.112	7.112	(0.885)	1559600	80.0000	77.67
35 Nitrobenzene	77	7.139	7.139	(0.888)	1560448	80.0000	77.10
39 Isophorone	82	7.465	7.465	(0.929)	2856710	80.0000	77.90
40 2-Nitrophenol	139	7.545	7.545	(0.939)	748430	80.0000	78.24
42 2,4-Dimethylphenol	107	7.609	7.609	(0.947)	1413989	80.0000	78.92
43 Benzoic acid	105	7.828	7.828	(0.974)	1110997	80.0000	84.16(M)

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Data File: \\ELABNSH05\TARGET\chem\bna3.i\042911b3.b\SEQ-CAL7.D
Report Date: 30-Apr-2011 15:01

Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	AMOUNTS CAL-AMT (ng/ul)	AMOUNTS ON-COL (ng/ul)
44 bis(2-Chloroethoxy)methane	93	7.737	7.737	(0.963)	1610223	80.0000	76.54
47 2,4-Dichlorophenol	162	7.855	7.855	(0.977)	1169092	80.0000	77.88
50 1,2,4-Trichlorobenzene	180	7.961	7.961	(0.991)	1285144	80.0000	76.23
51 Naphthalene	128	8.063	8.063	(1.003)	3662785	80.0000	74.65
52 4-Chloroaniline	127	8.132	8.132	(1.012)	1585824	80.0000	76.18
53 Hexachlorobutadiene	225	8.218	8.218	(1.023)	714016	80.0000	77.56
54 4-Chloro-3-methylphenol	107	8.747	8.747	(1.088)	1216417	80.0000	79.30
55 2-Methylnaphthalene	141	8.944	8.944	(1.113)	2274732	80.0000	77.28
56 1-Methylnaphthalene	141	9.067	9.067	(1.128)	2220115	80.0000	76.73
* 69 Acenaphthene-d10	164	10.259	10.259	(1.000)	1144813	40.0000	
70 Hexachlorocyclopentadiene	237	9.137	9.137	(0.891)	879138	80.0000	81.92
71 2,4,6-Trichlorophenol	196	9.297	9.297	(0.906)	867825	80.0000	79.38
72 2,4,5-Trichlorophenol	196	9.340	9.340	(0.910)	931511	80.0000	78.57
73 2-Chloronaphthalene	162	9.559	9.559	(0.932)	2351297	80.0000	75.53
$ 74 2-Fluorobiphenyl	172	9.409	9.409	(0.917)	2757376	80.0000	76.14
75 2-Nitroaniline	65	9.692	9.692	(0.945)	842415	80.0000	79.55
76 Dimethylphthalate	163	9.949	9.949	(0.970)	2714272	80.0000	76.21
77 Acenaphthylene	152	10.082	10.082	(0.983)	3706298	80.0000	75.06
78 2,6-Dinitrotoluene	165	10.013	10.013	(0.976)	658985	80.0000	76.96
79 3-Nitroaniline	138	10.221	10.221	(0.996)	723537	80.0000	78.25
80 Acenaphthene	153	10.301	10.301	(1.004)	2450881	80.0000	77.12
81 2,4-Dinitrophenol	184	10.344	10.344	(1.008)	459366	80.0000	86.55
83 4-Nitrophenol	65	10.419	10.419	(1.016)	658415	80.0000	84.52
84 Dibenzofuran	168	10.515	10.515	(1.025)	3375084	80.0000	76.82
85 2,4-Dinitrotoluene	165	10.510	10.510	(1.024)	904661	80.0000	80.43
86 Diethylphthalate	149	10.814	10.814	(1.054)	2598389	80.0000	75.99
87 4-Chlorophenyl-phenylether	204	10.942	10.942	(1.067)	1422946	80.0000	79.76
88 Fluorene	166	10.942	10.942	(1.067)	2989485	80.0000	78.09
89 4-Nitroaniline	138	10.996	10.996	(1.072)	696468	80.0000	74.35
96 2,3,4,6-Tetrachlorophenol	232	10.665	10.665	(1.040)	754099	80.0000	78.87
* 102 Phenanthrene-d10	188	12.102	12.102	(1.000)	1908161	40.0000	
103 1,2-Diphenylhydrazine	77	11.145	11.145	(0.921)	3059328	80.0000	75.38
104 Carbazole	167	12.406	12.406	(1.025)	3809227	80.0000	76.46
105 4,6-Dinitro-2-methylphenol	198	11.022	11.022	(0.911)	581048	80.0000	83.76
106 N-Nitrosodiphenylamine	169	11.103	11.103	(0.917)	2450787	80.0000	76.35
$ 107 2,4,6-Tribromophenol	330	11.242	11.242	(0.929)	852176	160.000	162.6(A)
108 4-Bromophenyl-phenylether	248	11.551	11.551	(0.955)	844534	80.0000	77.48
109 Hexachlorobenzene	284	11.621	11.621	(0.960)	903275	80.0000	77.49
110 Pentachlorophenol	266	11.856	11.856	(0.980)	644778	80.0000	83.27
111 Phenanthrene	178	12.134	12.134	(1.003)	3895970	80.0000	75.91
112 Anthracene	178	12.198	12.198	(1.008)	3952621	80.0000	75.83
115 Di-n-butylphthalate	149	12.876	12.876	(1.064)	4258479	80.0000	75.52
116 Fluoranthene	202	13.779	13.779	(1.139)	4550891	80.0000	77.32
* 132 Chrysene-d12	240	16.274	16.274	(1.000)	2081812	40.0000	
134 Pyrene	202	14.132	14.132	(0.868)	4601514	80.0000	75.97
$ 135 Terphenyl-d14	244	14.393	14.393	(0.884)	3009903	80.0000	77.50
136 Butylbenzylphthalate	149	15.264	15.264	(0.938)	2107310	80.0000	78.93

Data File: \\ELABNSH05\TARGET\chem\bna3.i\042911b3.b\SEQ-CAL7.D
Report Date: 30-Apr-2011 15:01

Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	AMOUNTS CAL-AMT (ng/ul)	AMOUNTS ON-COL (ng/ul)
138 Benzo(a)anthracene	228	16.247	16.247	(0.998)	4519594	80.0000	77.58
139 Chrysene	228	16.327	16.327	(1.003)	4156881	80.0000	76.22
140 Bis(2-ethylhexyl)phthalate	149	16.391	16.391	(1.007)	2755360	80.0000	77.93
* 154 Perylene-d12	264	19.025	19.025	(1.000)	2013593	40.0000	
155 Di-n-octylphthalate	149	17.695	17.695	(0.930)	4866675	80.0000	80.27
156 Benzo(b)fluoranthene	252	18.320	18.320	(0.963)	4406918	80.0000	80.04
157 Benzo(k)fluoranthene	252	18.384	18.384	(0.966)	4374996	80.0000	78.46
158 Benzo(a)pyrene	252	18.929	18.929	(0.995)	4200577	80.0000	79.78
159 Indeno(1,2,3-cd)pyrene	276	21.274	21.274	(1.118)	4330284	80.0000	82.87
160 Dibenz(a,h)anthracene	278	21.349	21.349	(1.122)	4123283	80.0000	81.54
161 Benzo(g,h,i)perylene	276	21.936	21.936	(1.153)	4146555	80.0000	79.73

QC Flag Legend

A - Target compound detected but, quantitated amount exceeded maximum amount.
M - Compound response manually integrated.

Data File: \\ELABNSHO5\TARGET\chem\bna3.i\042911b3.b\SEQ-CAL7.D
Date : 29-APR-2011 21:04
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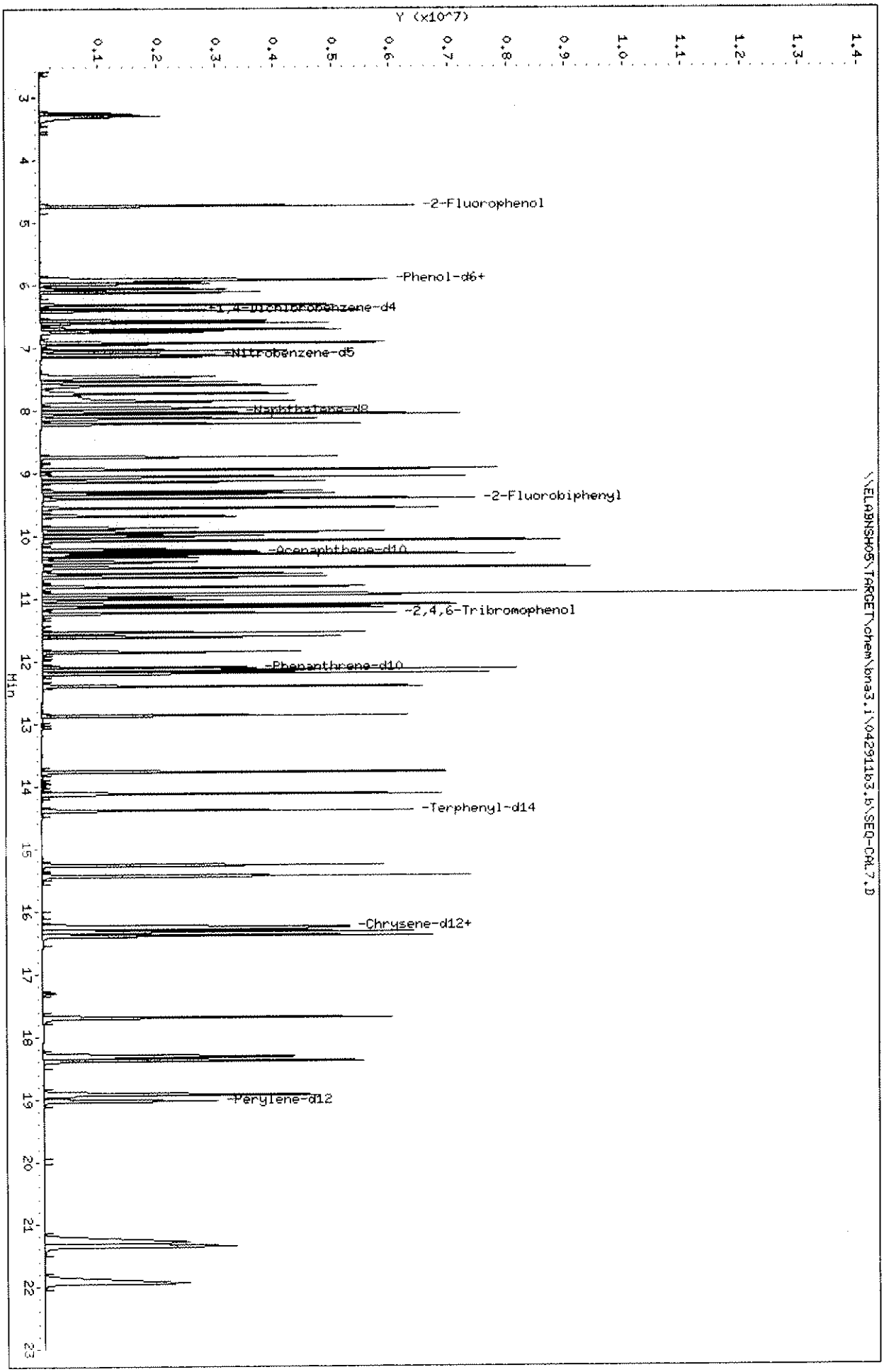
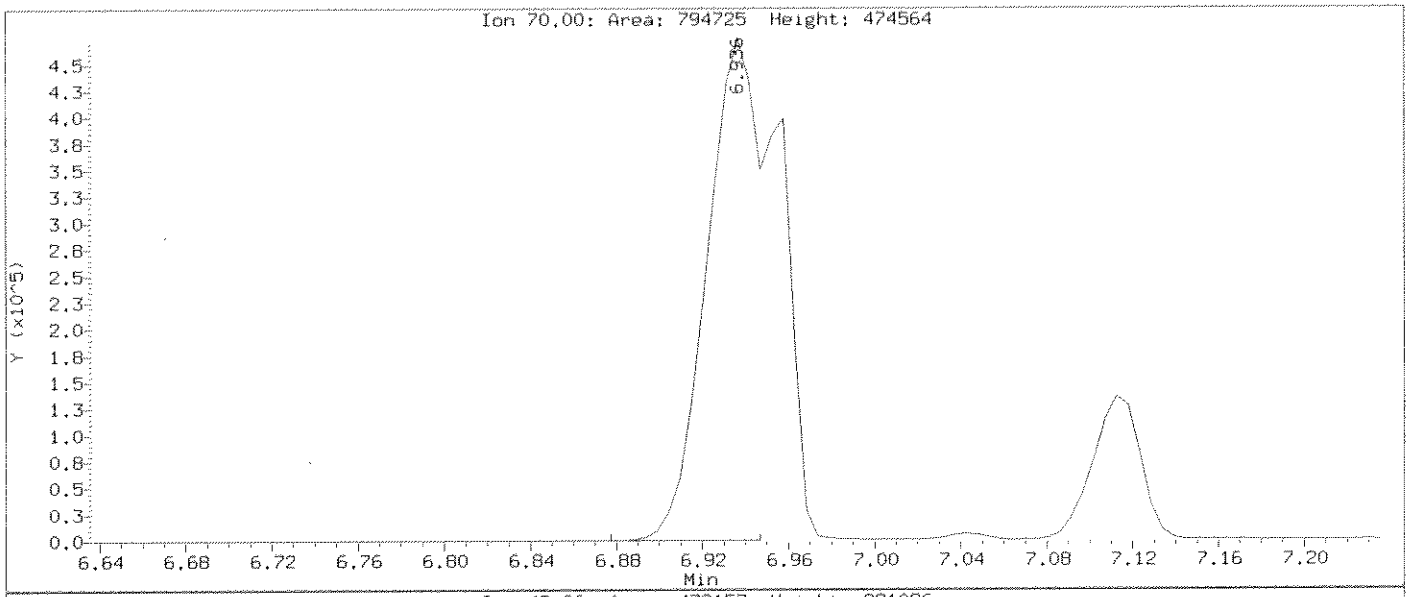
Column phase: fused silica

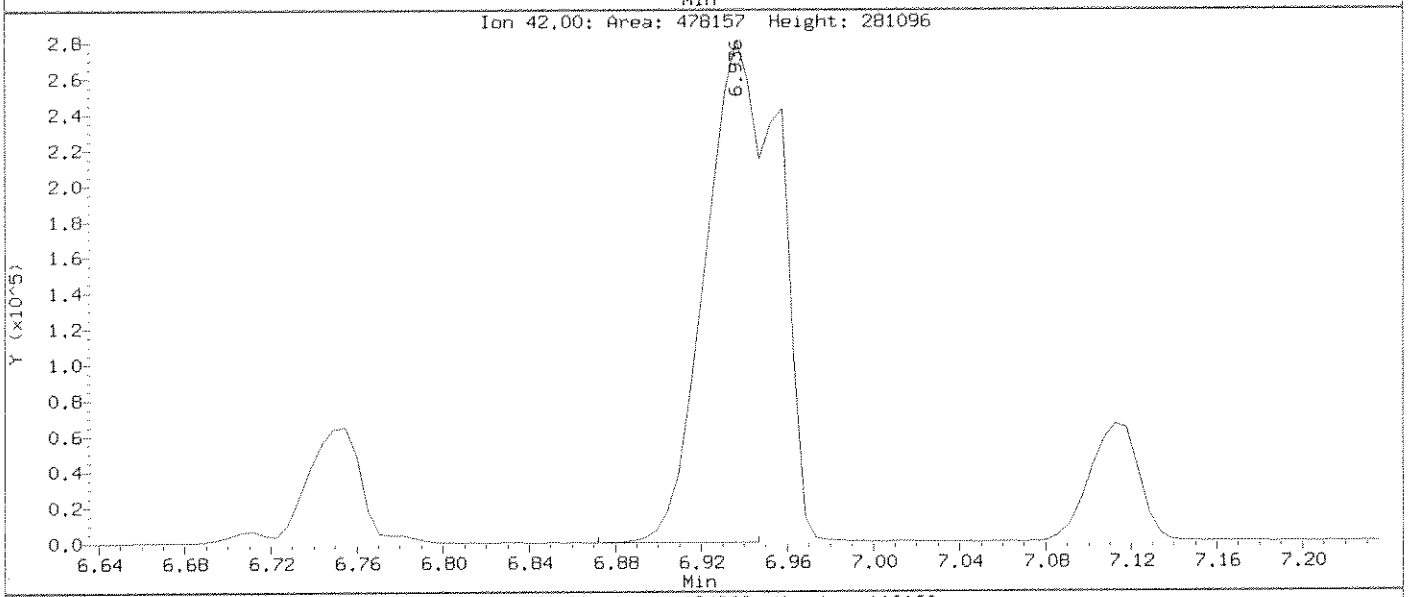
Instrument: bna3.i
Operator: MEC
Column diameter: 0.25

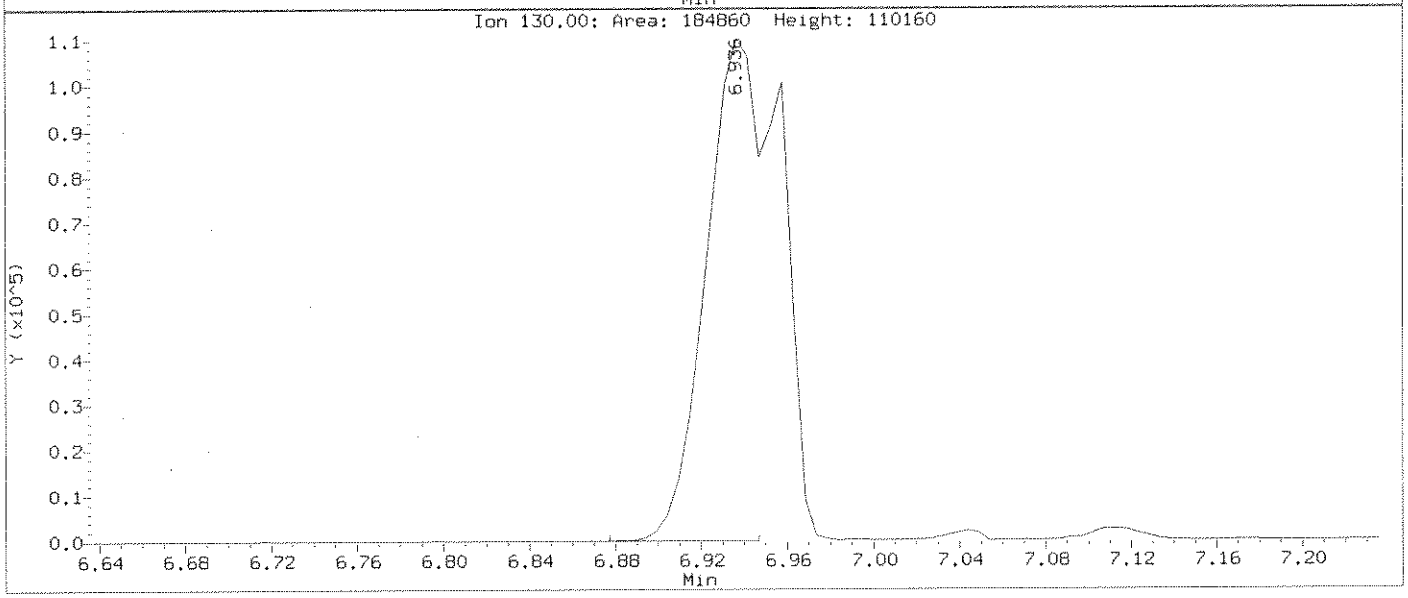


Data File: \\ELABNSH05\TARGET\chem\bna3.i\042911b3.b\SEQ-CAL7.D
Injection Date: 29-APR-2011 21:04
Instrument: bna3.i
Client Sample ID: SEQ-CAL7

Compound: N-Nitroso-di-n-propylamine
CAS Number: 621-64-7

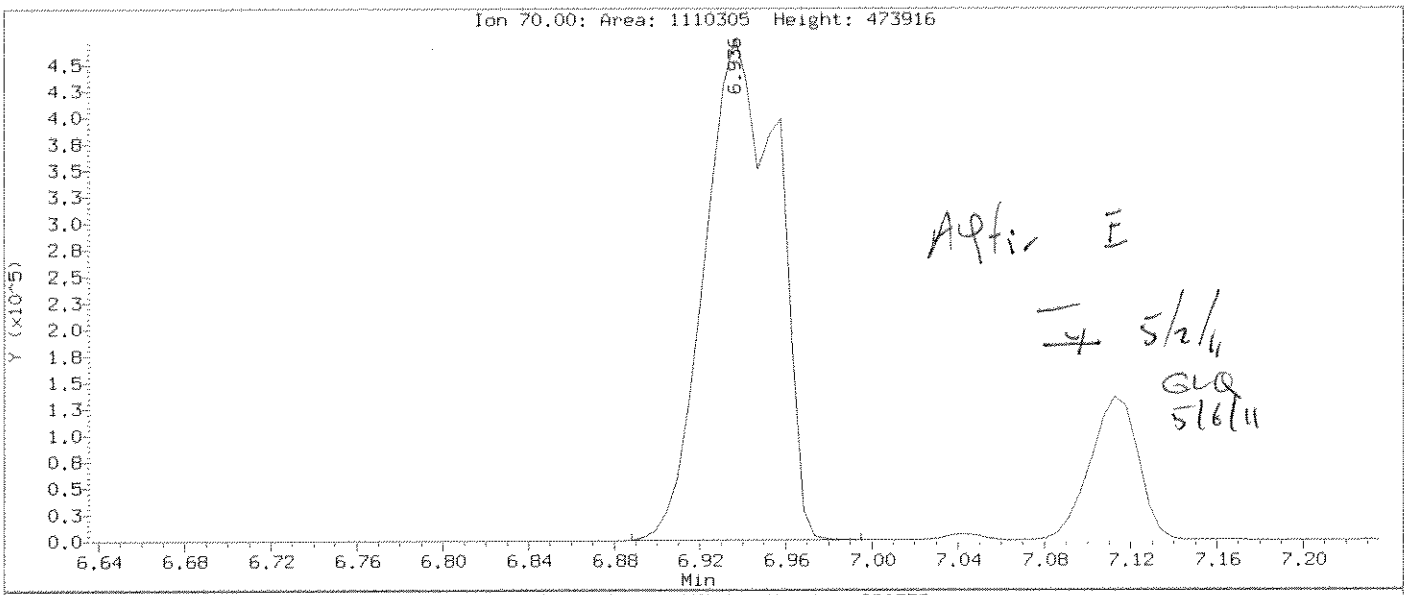


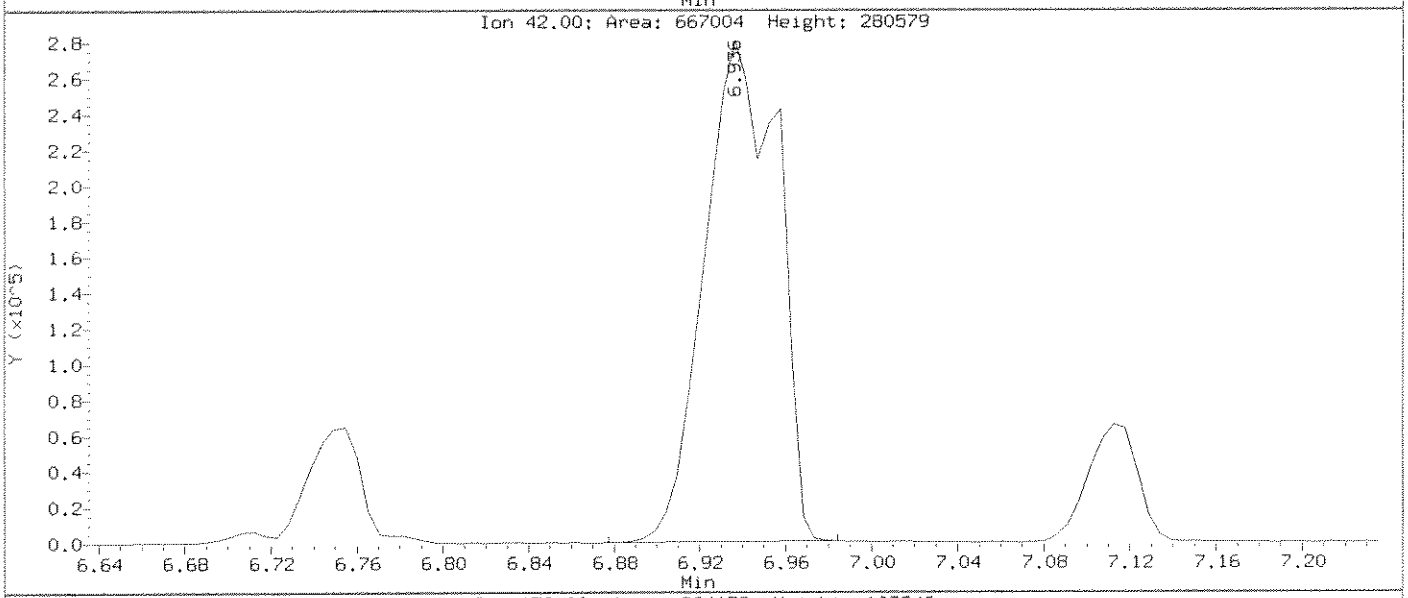


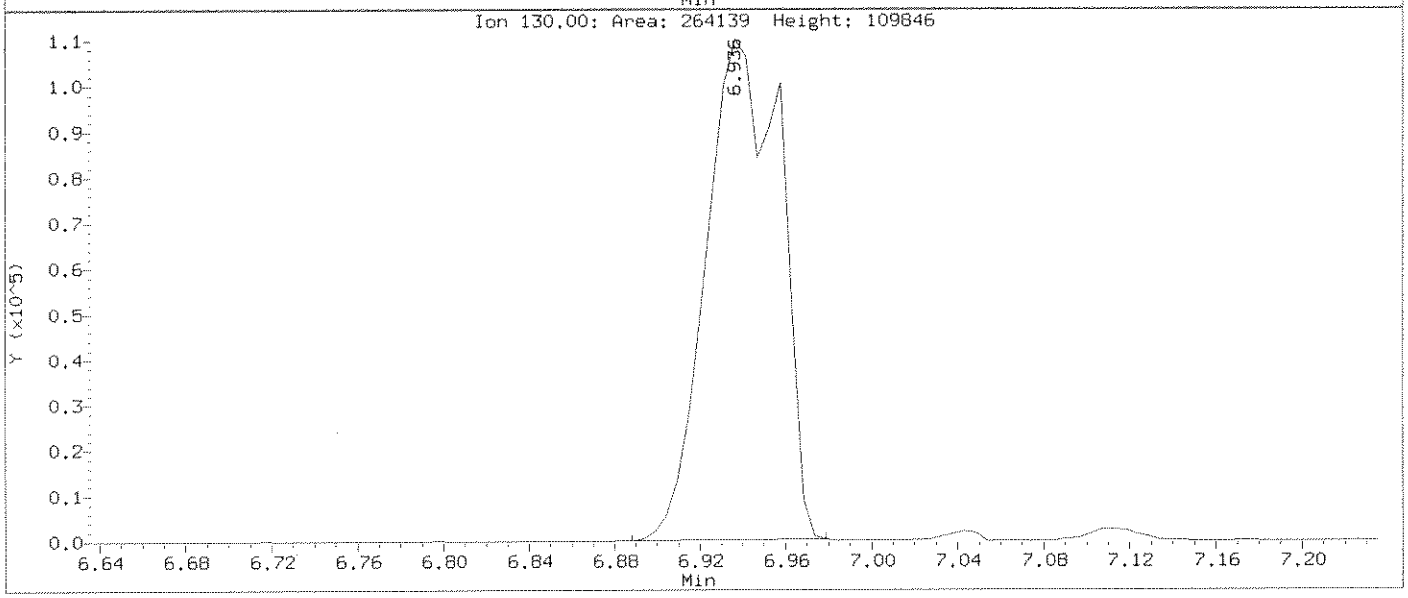


Data File: \\ELABNSHO5\TARGET\chem\bna3.i\042911b3.b\SEQ-CAL7.D
Injection Date: 29-APR-2011 21:04
Instrument: bna3.i
Client Sample ID: SEQ-CAL7

Compound: N-Nitroso-di-n-propylamine
CAS Number: 621-64-7







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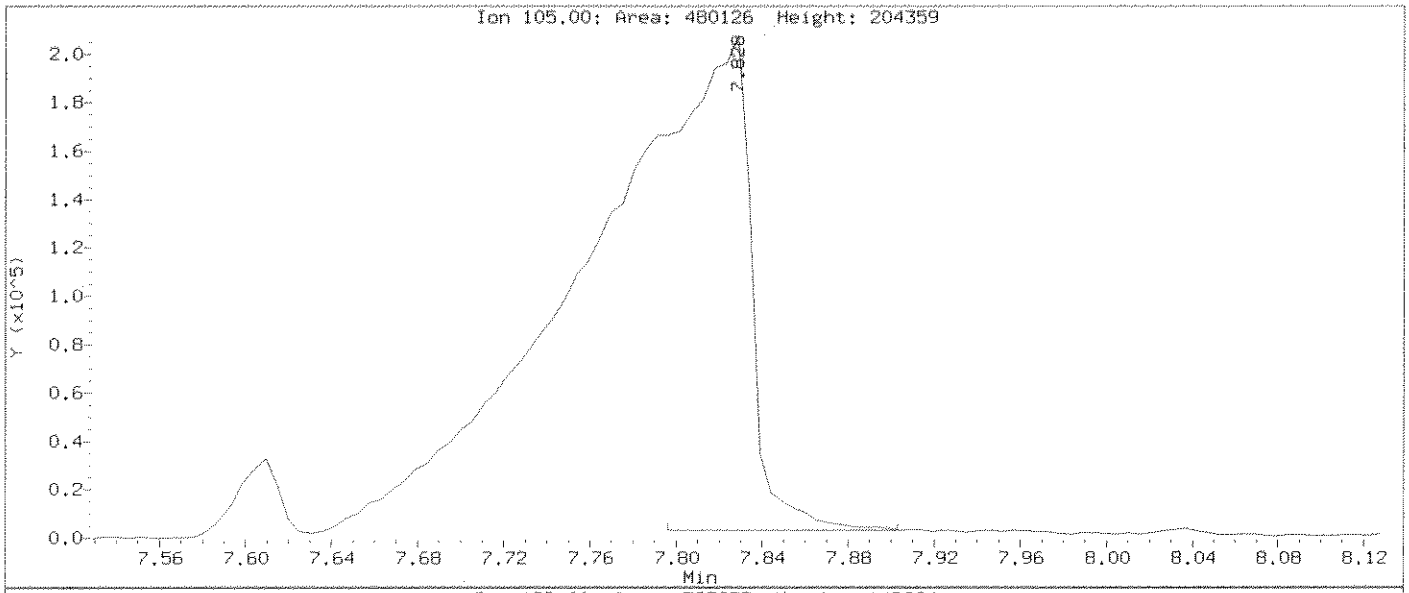
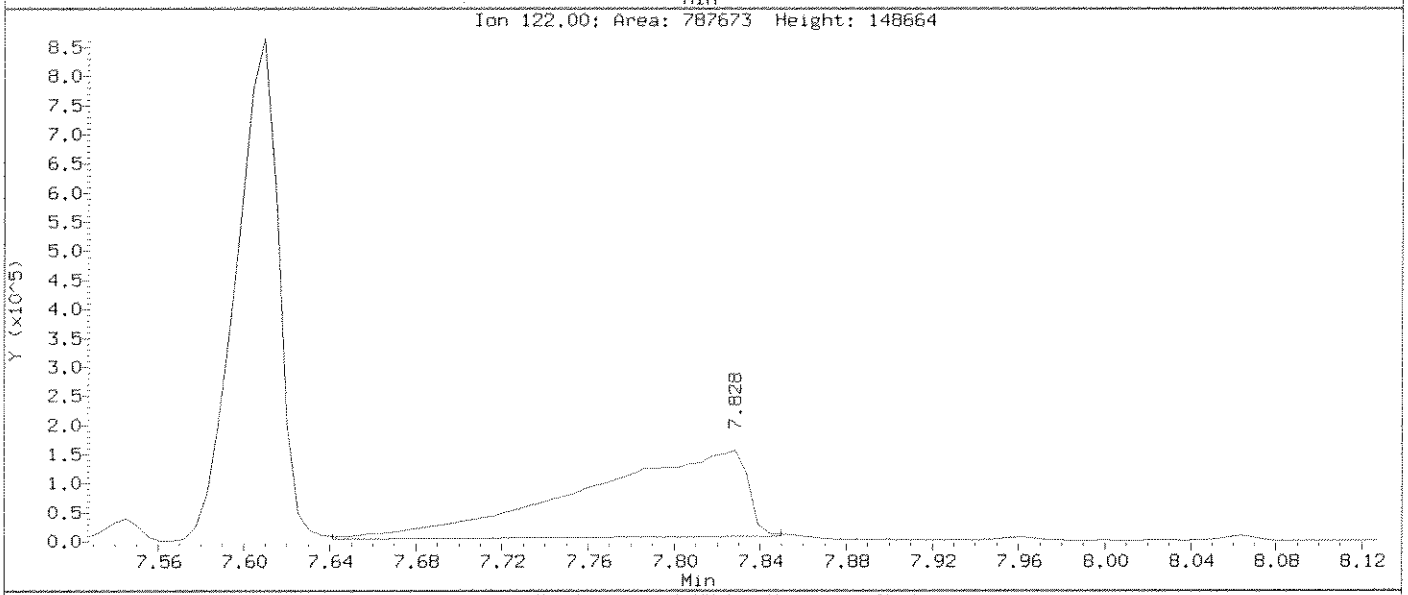
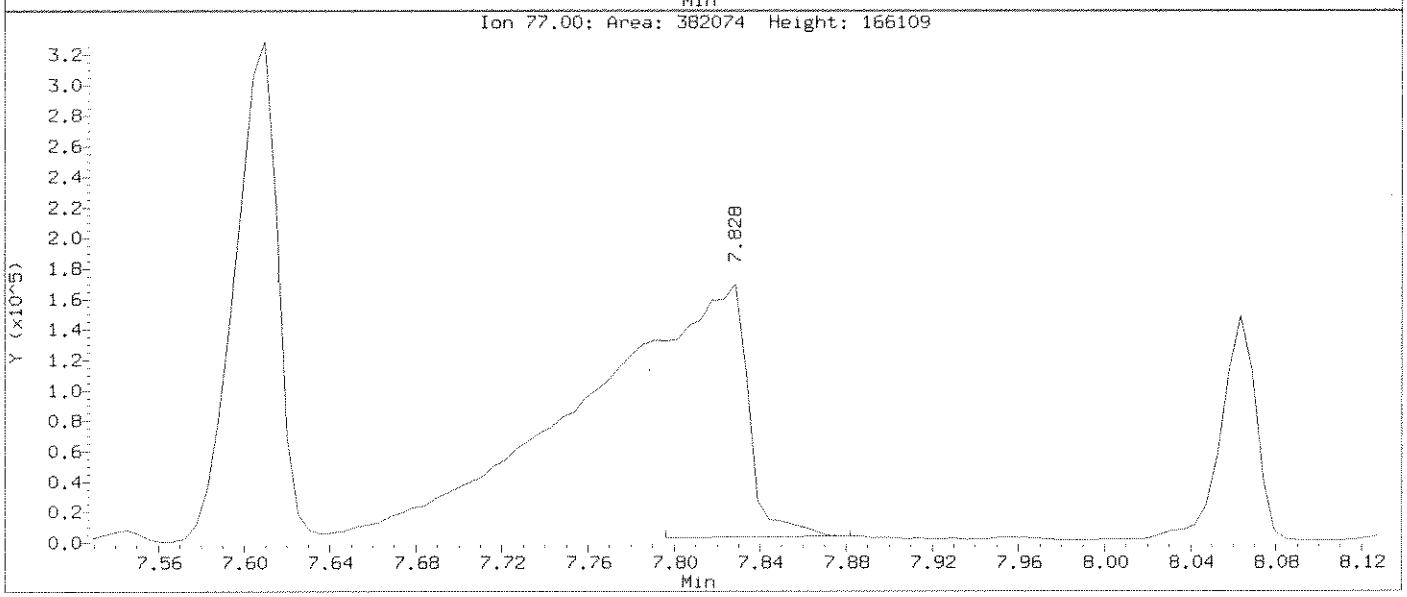
Injection Date: 29-APR-2011 21:04
Instrument: bna3.i
Client Sample ID: SEQ-CAL7

Compound: Benzoic acid
CAS Number: 65-85-0







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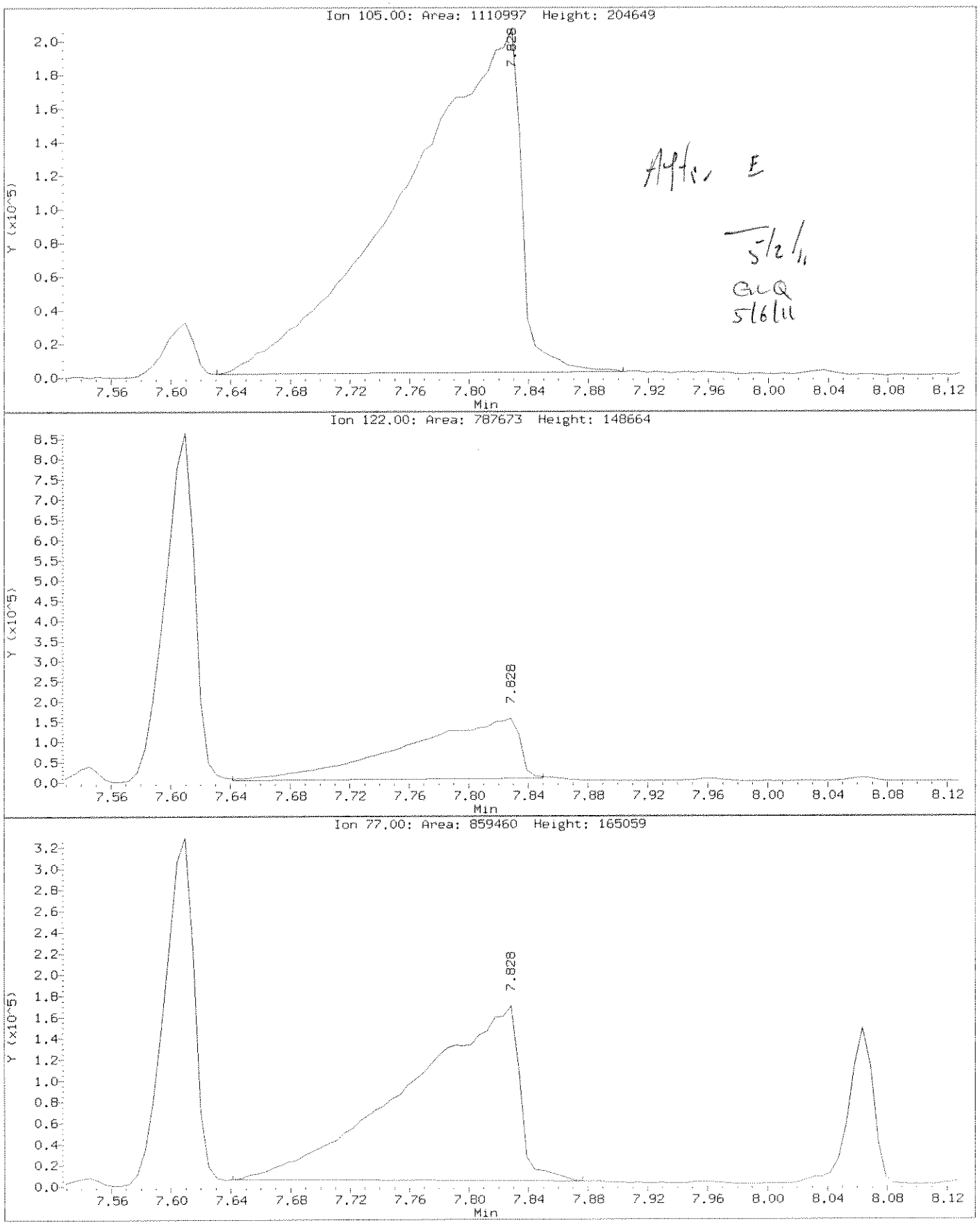
Instrument: bna3.i
Client Sample ID: SEQ-CAL7

Compound: Benzoic acid
CAS Number: 65-85-0



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Data File: \\ELABNSH05\TARGET\chem\bna3.i\042911b3.b\SEQ-CAL8.D
Report Date: 30-Apr-2011 15:01

Laboratory Name

Data file : \\ELABNSH05\TARGET\chem\bna3.i\042911b3.b\SEQ-CAL8.D
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Inj Date : 29-APR-2011 21:37 MS Autotune Date: 07-SEP-2010 05:33
Operator : MEC Inst ID: bna3.i
Smp Info : CAL100.0PPM;;;;;;11D0223
Misc Info : ;;;;;;cal_1.sub;
Comment :
Method : \\ELABNSH05\TARGET\chem\bna3.i\042911b3.b\IXBN3.m
Meth Date : 30-Apr-2011 15:01 mcobb Quant Type: ISTD
Cal Date : 29-APR-2011 22:09 Cal File: SEQ-CAL9.D
Als bottle: 9 Calibration Sample, Level: 8
Dil Factor: 1.00000
Integrator: HP RTE Compound Sublist: cal_1.sub
Target Version: 4.04
Processing Host: TARGET09_VM

Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	AMOUNTS CAL-AMT (ng/ul)	AMOUNTS ON-COL (ng/ul)
* 1 1,4-Dichlorobenzene-d4	152	6.390	6.390	(1.000)	564644	40.0000	
$ 2 2-Fluorophenol	112	4.745	4.745	(0.743)	3137222	200.000	194.6(A)
$ 3 Phenol-d6	99	5.926	5.926	(0.927)	4320698	200.000	194.6(A)
4 Pyridine	79	3.308	3.308	(0.518)	2116667	100.000	101.1(A)
6 N-Nitroso-di-methylamine	42	3.271	3.271	(0.512)	961973	100.000	99.54
7 Aniline	93	5.974	5.974	(0.935)	2885092	100.000	97.35
10 Phenol	94	5.942	5.942	(0.930)	2368900	100.000	99.43
11 bis(2-Chloroethyl)ether	93	6.065	6.065	(0.949)	1756223	100.000	95.86
12 2-Chlorophenol	128	6.118	6.118	(0.957)	1810622	100.000	97.54
13 1,3-Dichlorobenzene	146	6.316	6.316	(0.988)	1949036	100.000	96.70
14 1,4-Dichlorobenzene	146	6.412	6.412	(1.003)	1979549	100.000	97.05
15 Benzyl alcohol	108	6.583	6.583	(1.030)	1234517	100.000	100.9(A)
16 1,2-Dichlorobenzene	146	6.604	6.604	(1.033)	1844200	100.000	96.50
17 2-Methylphenol	108	6.711	6.711	(1.050)	1659066	100.000	97.24
18 2,2'-Oxybis-1-chloropropane	45	6.748	6.748	(1.056)	2591542	100.000	94.29
19 3-Methylphenol	108	6.930	6.930	(1.084)	1759866	100.000	98.29
20 4-Methylphenol	108	6.930	6.930	(1.084)	1759866	100.000	98.29
21 N-Nitroso-di-n-propylamine	70	6.962	6.962	(1.089)	1424741	100.000	97.61(M)
22 Hexachloroethane	117	7.037	7.037	(1.101)	760468	100.000	98.58
* 33 Naphthalene-d8	136	8.030	8.030	(1.000)	1974331	40.0000	
$ 34 Nitrobenzene-d5	82	7.112	7.112	(0.886)	2009105	100.000	99.88
35 Nitrobenzene	77	7.138	7.138	(0.889)	1987297	100.000	98.01
39 Isophorone	82	7.464	7.464	(0.929)	3607251	100.000	98.19
40 2-Nitrophenol	139	7.539	7.539	(0.939)	949843	100.000	99.12
42 2,4-Dimethylphenol	107	7.608	7.608	(0.947)	1793457	100.000	99.92
43 Benzoic acid	105	7.849	7.849	(0.977)	1477320	100.000	111.7(A)

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Data File: \\ELABNSH05\TARGET\chem\bna3.i\042911b3.b\SEQ-CAL8.D
Report Date: 30-Apr-2011 15:01

	Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	AMOUNTS CAL-AMT (ng/ul)	AMOUNTS ON-COL (ng/ul)
	44 bis(2-Chloroethoxy)methane	93	7.737	7.737	(0.963)	2020758	100.000	95.88
	47 2,4-Dichlorophenol	162	7.854	7.854	(0.978)	1488625	100.000	98.99
	50 1,2,4-Trichlorobenzene	180	7.956	7.956	(0.991)	1654786	100.000	97.98
	51 Naphthalene	128	8.063	8.063	(1.004)	4564183	100.000	92.85
	52 4-Chloroaniline	127	8.132	8.132	(1.013)	1982676	100.000	95.07
	53 Hexachlorobutadiene	225	8.212	8.212	(1.023)	929872	100.000	100.8(A)
	54 4-Chloro-3-methylphenol	107	8.741	8.741	(1.088)	1519076	100.000	98.85
	55 2-Methylnaphthalene	141	8.939	8.939	(1.113)	2869762	100.000	97.32
	56 1-Methylnaphthalene	141	9.067	9.067	(1.129)	2809100	100.000	96.91
*	69 Acenaphthene-d10	164	10.253	10.253	(1.000)	1113173	40.0000	
	70 Hexachlorocyclopentadiene	237	9.131	9.131	(0.891)	1142601	100.000	109.5(A)
	71 2,4,6-Trichlorophenol	196	9.291	9.291	(0.906)	1096601	100.000	103.2(A)
	72 2,4,5-Trichlorophenol	196	9.334	9.334	(0.910)	1180818	100.000	102.4(A)
	73 2-Chloronaphthalene	162	9.553	9.553	(0.932)	2963941	100.000	97.91
$	74 2-Fluorobiphenyl	172	9.409	9.409	(0.918)	3451754	100.000	98.02
	75 2-Nitroaniline	65	9.687	9.687	(0.945)	1059801	100.000	102.9(A)
	76 Dimethylphthalate	163	9.948	9.948	(0.970)	3401656	100.000	98.22
	77 Acenaphthylene	152	10.077	10.077	(0.983)	4583788	100.000	95.47
	78 2,6-Dinitrotoluene	165	10.012	10.012	(0.977)	826091	100.000	99.22
	79 3-Nitroaniline	138	10.221	10.221	(0.997)	893128	100.000	99.33
	80 Acenaphthene	153	10.301	10.301	(1.005)	3089484	100.000	99.98
	81 2,4-Dinitrophenol	184	10.344	10.344	(1.009)	579676	100.000	112.3(A)
	83 4-Nitrophenol	65	10.424	10.424	(1.017)	813295	100.000	107.4(A)
	84 Dibenzofuran	168	10.515	10.515	(1.026)	4192766	100.000	98.14
	85 2,4-Dinitrotoluene	165	10.515	10.515	(1.026)	1152579	100.000	105.4(A)
	86 Diethylphthalate	149	10.814	10.814	(1.055)	3221674	100.000	96.90
	87 4-Chlorophenyl-phenylether	204	10.937	10.937	(1.067)	1776641	100.000	102.4(A)
	88 Fluorene	166	10.942	10.942	(1.067)	3691774	100.000	99.18
	89 4-Nitroaniline	138	11.001	11.001	(1.073)	863110	100.000	94.76
	96 2,3,4,6-Tetrachlorophenol	232	10.659	10.659	(1.040)	960208	100.000	103.3(A)
*	102 Phenanthrene-d10	188	12.096	12.096	(1.000)	1849431	40.0000	
	103 1,2-Diphenylhydrazine	77	11.140	11.140	(0.921)	3776926	100.000	96.02
	104 Carbazole	167	12.400	12.400	(1.025)	4640764	100.000	96.11
	105 4,6-Dinitro-2-methylphenol	198	11.022	11.022	(0.911)	728435	100.000	108.3(A)
	106 N-Nitrosodiphenylamine	169	11.097	11.097	(0.917)	3052311	100.000	98.11
$	107 2,4,6-Tribromophenol	330	11.241	11.241	(0.929)	1102965	200.000	217.1(A)
	108 4-Bromophenyl-phenylether	248	11.546	11.546	(0.955)	1069585	100.000	101.2(A)
	109 Hexachlorobenzene	284	11.615	11.615	(0.960)	1142334	100.000	101.1(A)
	110 Pentachlorophenol	266	11.855	11.855	(0.980)	815849	100.000	108.7(A)
	111 Phenanthrene	178	12.133	12.133	(1.003)	4761849	100.000	95.73
	112 Anthracene	178	12.197	12.197	(1.008)	4827246	100.000	95.55
	115 Di-n-butylphthalate	149	12.870	12.870	(1.064)	5140519	100.000	94.06
	116 Fluoranthene	202	13.773	13.773	(1.139)	5601520	100.000	98.19
*	132 Chrysene-d12	240	16.268	16.268	(1.000)	2020225	40.0000	
	134 Pyrene	202	14.126	14.126	(0.868)	5656383	100.000	96.24
$	135 Terphenyl-d14	244	14.388	14.388	(0.884)	3753648	100.000	99.60
	136 Butylbenzylphthalate	149	15.258	15.258	(0.938)	2605847	100.000	100.6(A)

Data File: \\ELABNSH05\TARGET\chem\bna3.i\042911b3.b\SEQ-CAL8.D
Report Date: 30-Apr-2011 15:01

Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	AMOUNTS CAL-AMT (ng/ul)	AMOUNTS ON-COL (ng/ul)
138 Benzo(a)anthracene	228	16.247	16.247	(0.999)	5569888	100.000	98.53
139 Chrysene	228	16.327	16.327	(1.004)	5113731	100.000	96.62
140 Bis(2-ethylhexyl)phthalate	149	16.386	16.386	(1.007)	3403927	100.000	99.21
* 154 Perylene-d12	264	19.014	19.014	(1.000)	1927021	40.0000	
155 Di-n-octylphthalate	149	17.689	17.689	(0.930)	5991866	100.000	103.3(A)
156 Benzo(b)fluoranthene	252	18.314	18.314	(0.963)	5580270	100.000	105.9(A)
157 Benzo(k)fluoranthene	252	18.384	18.384	(0.967)	5289409	100.000	99.12
158 Benzo(a)pyrene	252	18.928	18.928	(0.996)	5215495	100.000	103.5(A)
159 Indeno(1,2,3-cd)pyrene	276	21.279	21.279	(1.119)	5641979	100.000	112.8(A)
160 Dibenz(a,h)anthracene	278	21.348	21.348	(1.123)	5131008	100.000	106.0(A)
161 Benzo(g,h,i)perylene	276	21.941	21.941	(1.154)	5141339	100.000	103.3(A)

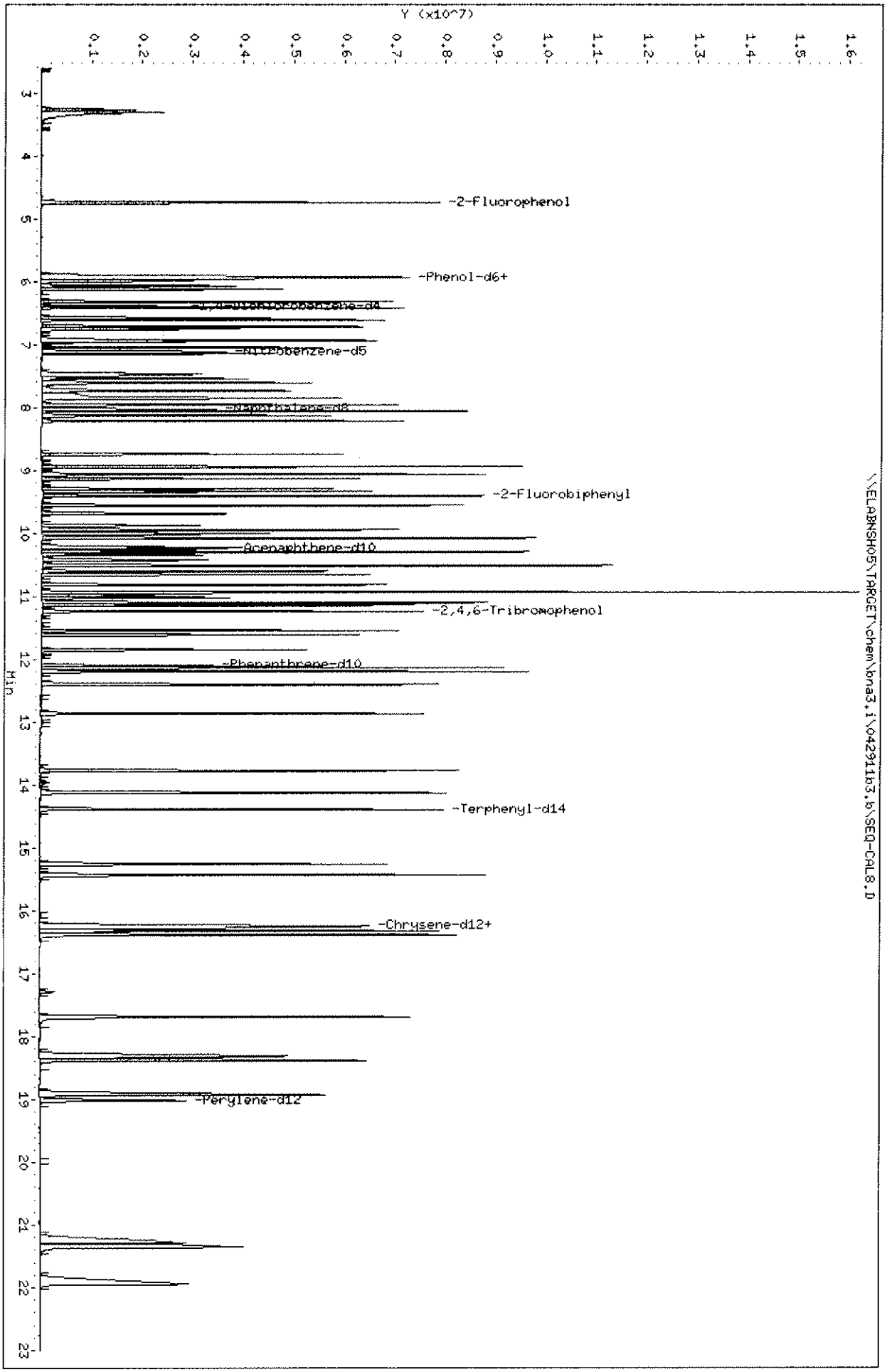
QC Flag Legend

A - Target compound detected but, quantitated amount exceeded maximum amount.
M - Compound response manually integrated.

Data File: \\ELABNSHO5\TARGET\chem\bna3.i\042911b3.b\SEQ-CAL8.D
Date : 29-APR-2011 21:37
Client ID: SEQ-CAL8
Sample Info: CAL100.0PPM;;;;;;;11D0223

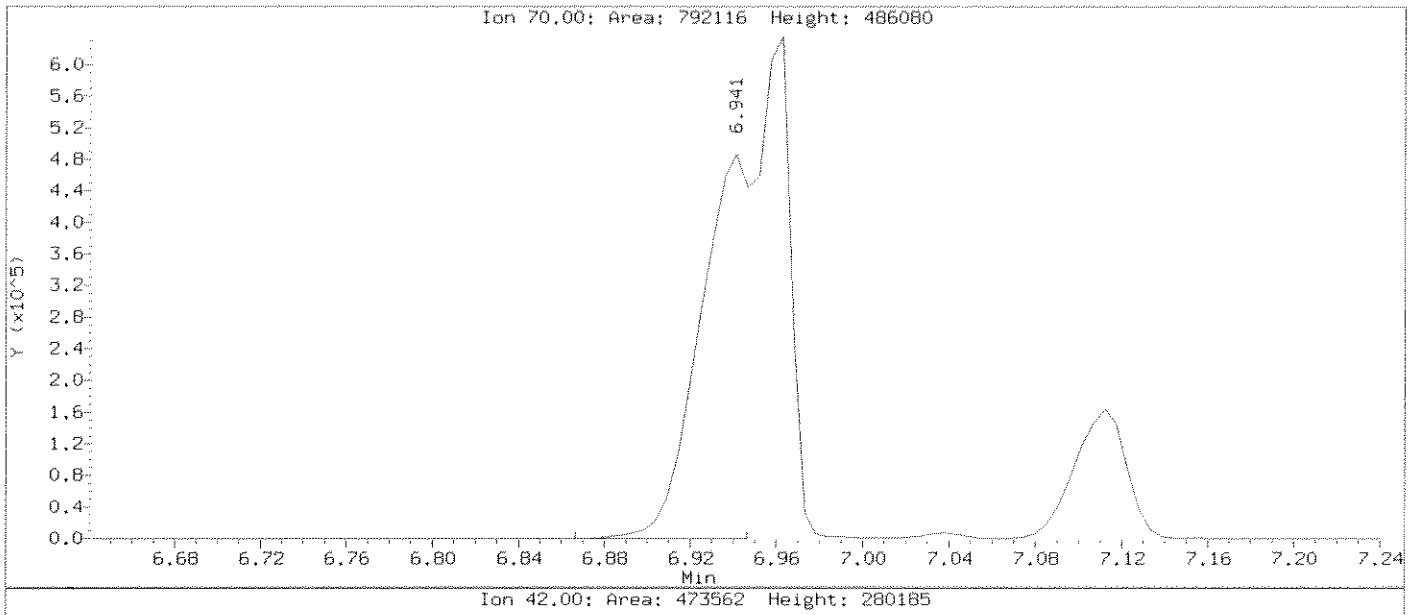
Column phase: fused silica

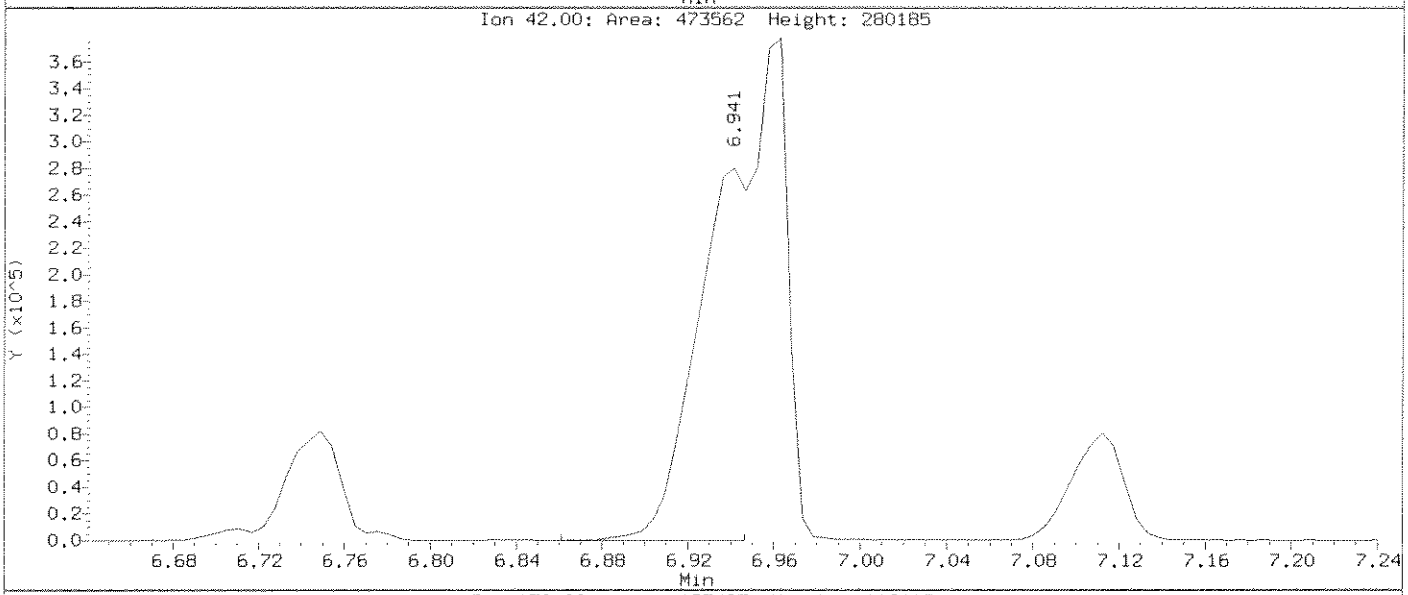
Instrument: bna3.i
Operator: MEC
Column diameter: 0.25

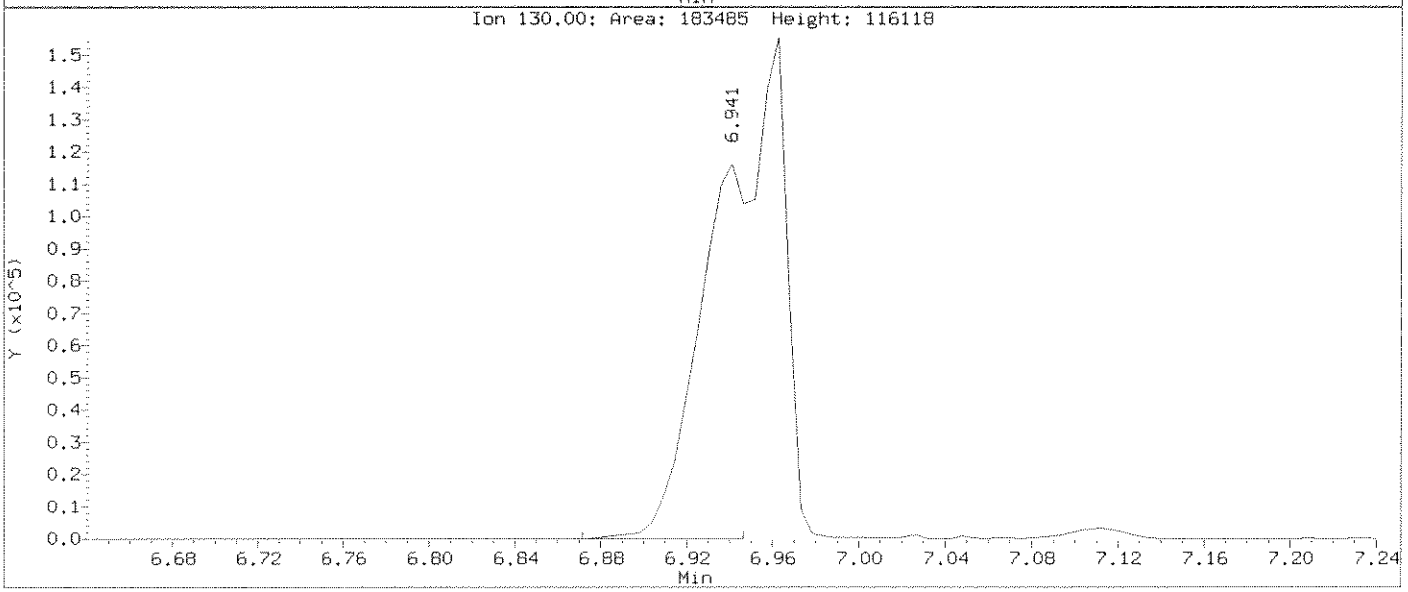


Data File: \\ELABNSHO5\TARGET\chem\bna3.i\042911b3.b\SEQ-CAL8.D
Injection Date: 29-APR-2011 21:37
Instrument: bna3.i
Client Sample ID: SEQ-CAL8

Compound: N-Nitroso-di-n-propylamine
CAS Number: 621-64-7







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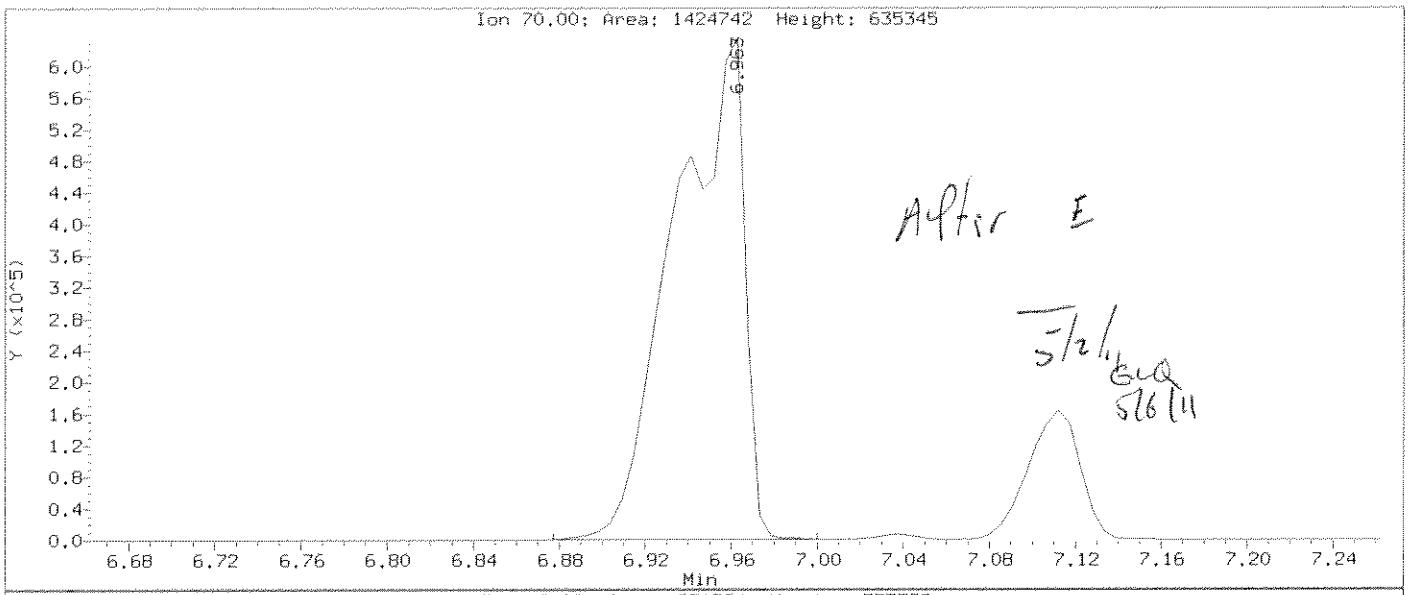
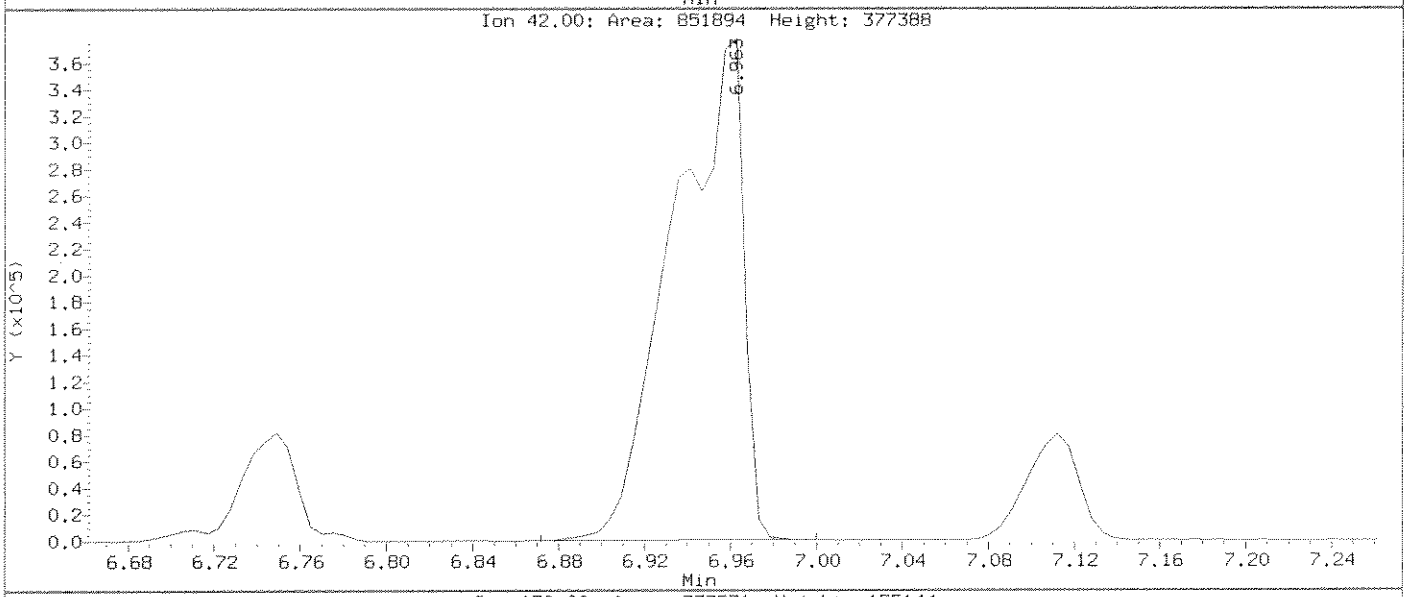
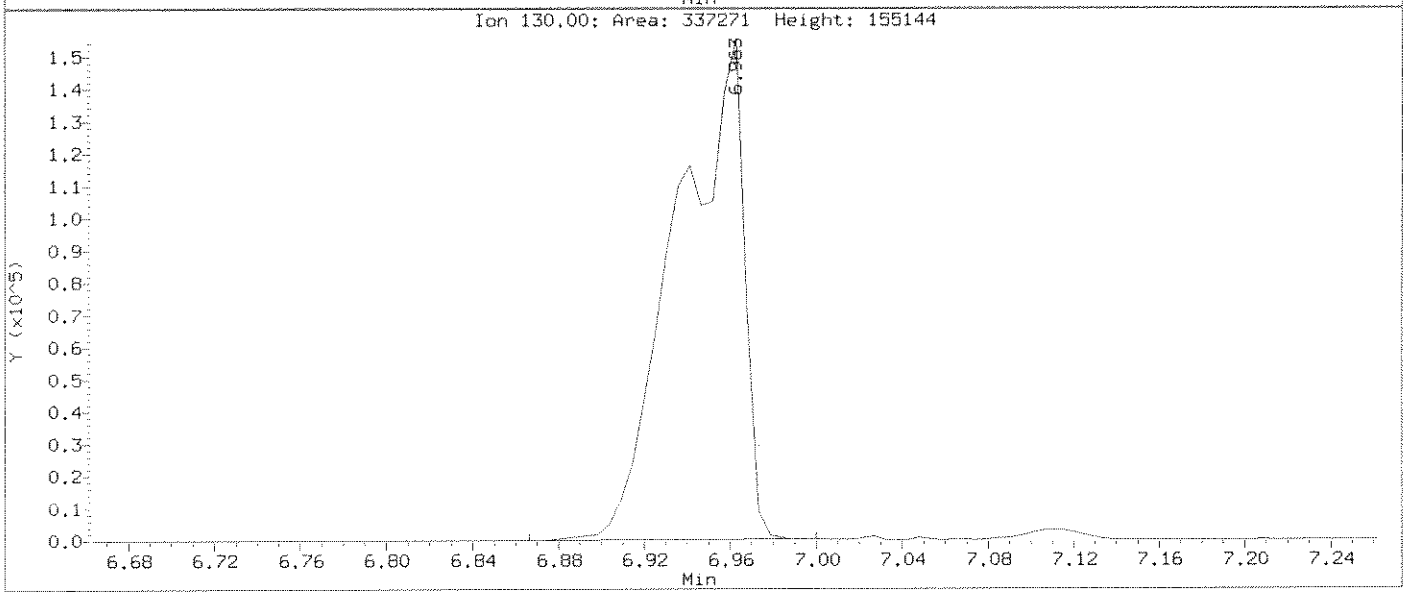
Injection Date: 29-APR-2011 21:37
Instrument: bna3.i
Client Sample ID: SEQ-CAL8

Compound: N-Nitroso-di-n-propylamine
CAS Number: 621-64-7







Data File: \\ELABNSH05\TARGET\chem\bna3.i\042911b3.b\SEQ-CAL9.D
Report Date: 30-Apr-2011 15:11

Laboratory Name

Data file : \\ELABNSH05\TARGET\chem\bna3.i\042911b3.b\SEQ-CAL9.D
Lab Smp Id: SEQ-CAL9 Client Smp ID: SEQ-CAL9
Inj Date : 29-APR-2011 22:09 MS Autotune Date: 07-SEP-2010 05:33
Operator : MEC Inst ID: bna3.i
Smp Info : CAL5.0PPM;;;;;;11A0534
Misc Info : ;;;;;;cal_2.sub;
Comment :
Method : \\ELABNSH05\TARGET\chem\bna3.i\042911b3.b\IXBN3.m
Meth Date : 30-Apr-2011 15:11 mcobb Quant Type: ISTD
Cal Date : 30-APR-2011 01:58 Cal File: SEQ-CALG.D
Als bottle: 10 Calibration Sample, Level: 1
Dil Factor: 1.00000
Integrator: HP RTE Compound Sublist: cal_2.sub
Target Version: 4.04
Processing Host: TARGET09_VM

Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	AMOUNTS CAL-AMT (ng/ul)	AMOUNTS ON-COL (ng/ul)
* 1 1,4-Dichlorobenzene-d4	152	6.392	6.392	(1.000)	775775	40.0000	
5 1,4-Dioxane	88	3.005	3.005	(0.470)	54546	5.00000	5.203
32 Benzaldehyde	106	5.831	5.831	(0.912)	110149	5.00000	5.623
* 33 Naphthalene-d8	136	8.027	8.027	(1.000)	2755592	40.0000	
62 2,6-Dichlorophenol	162	8.128	8.128	(1.013)	102274	5.00000	4.974
57 Acetophenone	105	6.900	6.900	(1.079)	182329	5.00000	5.217
67 1,2,4,5-Tetrachlorobenzene	216	9.143	9.143	(1.139)	119838	5.00000	5.188
68 Caprolactam	113	8.529	8.529	(1.063)	34413	5.00000	4.427
* 69 Acenaphthene-d10	164	10.244	10.244	(1.000)	1627052	40.0000	
100 1,1'-Biphenyl	154	9.523	9.523	(0.930)	310582	5.00000	5.286
* 102 Phenanthrene-d10	188	12.092	12.092	(1.000)	2663524	40.0000	
129 Atrazine	200	11.734	11.734	(0.970)	79330	5.00000	5.081
* 132 Chrysene-d12	240	16.248	16.248	(1.000)	2897110	40.0000	
133 Benzidine	184	13.967	13.967	(0.860)	229041	5.00000	4.931
137 3,3'-Dichlorobenzidine	252	16.195	16.195	(0.997)	140714	5.00000	4.777
* 154 Perylene-d12	264	19.010	19.010	(1.000)	2900342	40.0000	

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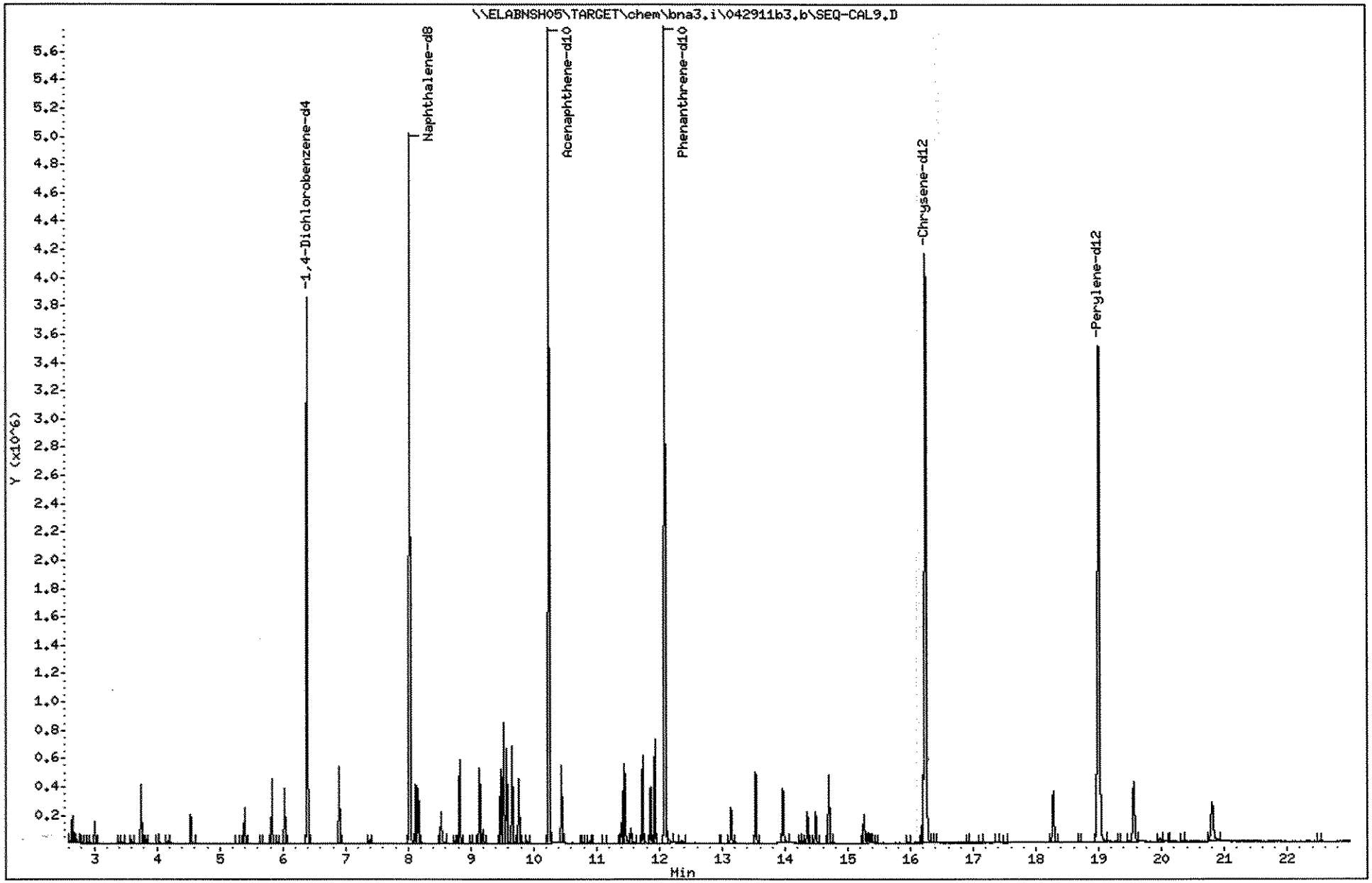
Data File: \\ELABNSH05\TARGET\chem\bna3.i\042911b3.b\SEQ-CAL9.D
Date : 29-APR-2011 22:09
Client ID: SEQ-CAL9
Sample Info: CAL5.0PPM;;;;;;11A0534

Instrument: bna3.i

Operator: MEC

Column phase: fused silica

Column diameter: 0.25



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Data File: \\ELABNSH05\TARGET\chem\bna3.i\042911b3.b\SEQ-CALA.D
Report Date: 30-Apr-2011 15:11

Laboratory Name

Data file : \\ELABNSH05\TARGET\chem\bna3.i\042911b3.b\SEQ-CALA.D
Lab Smp Id: SEQ-CALA Client Smp ID: SEQ-CALA
Inj Date : 29-APR-2011 22:42 MS Autotune Date: 07-SEP-2010 05:33
Operator : MEC Inst ID: bna3.i
Smp Info : CAL10.0PPM;;;;;;11A0537
Misc Info : ;;;;;;cal_2.sub;
Comment :
Method : \\ELABNSH05\TARGET\chem\bna3.i\042911b3.b\IXBN3.m
Meth Date : 30-Apr-2011 15:11 mcobb Quant Type: ISTD
Cal Date : 30-APR-2011 01:58 Cal File: SEQ-CALG.D
Als bottle: 11 Calibration Sample, Level: 2
Dil Factor: 1.00000
Integrator: HP RTE Compound Sublist: cal_2.sub
Target Version: 4.04
Processing Host: TARGET09_VM

Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	AMOUNTS CAL-AMT (ng/ul)	AMOUNTS ON-COL (ng/ul)
* 1 1,4-Dichlorobenzene-d4	152	6.391	6.391	(1.000)	692546	40.0000	
5 1,4-Dioxane	88	2.999	2.999	(0.469)	96749	10.0000	10.34
32 Benzaldehyde	106	5.831	5.831	(0.912)	191203	10.0000	10.93
* 33 Naphthalene-d8	136	8.032	8.032	(1.000)	2447093	40.0000	
62 2,6-Dichlorophenol	162	8.133	8.133	(1.013)	184367	10.0000	10.10
57 Acetophenone	105	6.904	6.904	(1.080)	319209	10.0000	10.23
67 1,2,4,5-Tetrachlorobenzene	216	9.148	9.148	(1.139)	217722	10.0000	10.61
68 Caprolactam	113	8.539	8.539	(1.063)	67557	10.0000	9.786
* 69 Acenaphthene-d10	164	10.248	10.248	(1.000)	1430478	40.0000	
100 1,1'-Biphenyl	154	9.527	9.527	(0.930)	541561	10.0000	10.48
* 102 Phenanthrene-d10	188	12.097	12.097	(1.000)	2342358	40.0000	
129 Atrazine	200	11.744	11.744	(0.971)	142270	10.0000	10.36
* 132 Chrysene-d12	240	16.258	16.258	(1.000)	2578817	40.0000	
133 Benzidine	184	13.977	13.977	(0.860)	425409	10.0000	10.29
137 3,3'-Dichlorobenzidine	252	16.205	16.205	(0.997)	258027	10.0000	9.840
* 154 Perylene-d12	264	19.020	19.020	(1.000)	2571310	40.0000	

GLQ
5/6/11

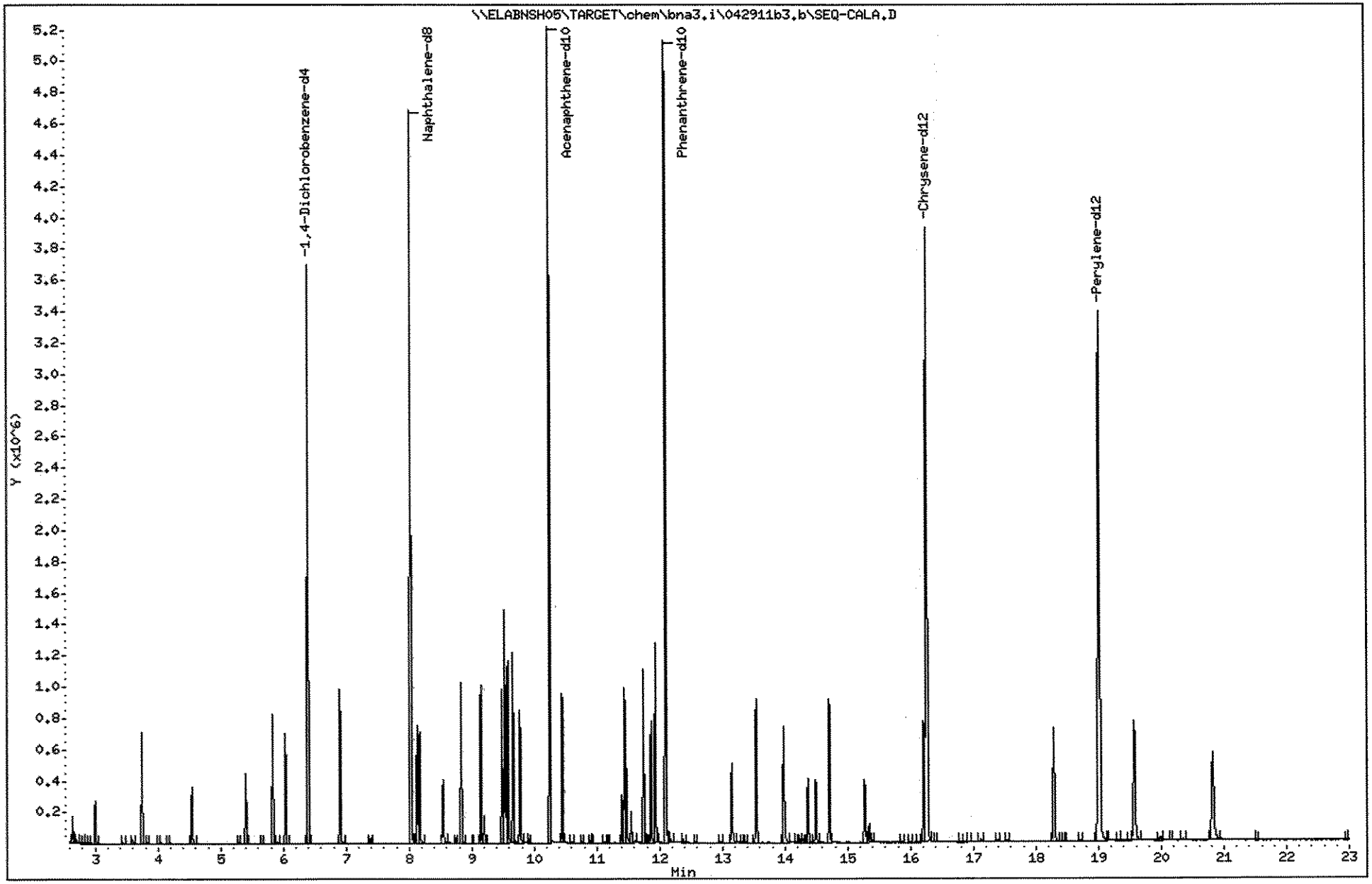
Data File: \\ELABNSH05\TARGET\chem\bna3.i\042911b3.b\SEQ-CALA.D
Date : 29-APR-2011 22:42
Client ID: SEQ-CALA
Sample Info: CAL10.0PPM;;;;;;11A0537

Instrument: bna3.i

Operator: MEC

Column phase: fused silica

Column diameter: 0.25



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1109191

Data File: \\ELABNSH05\TARGET\chem\bna3.i\042911b3.b\SEQ-CALB.D
Report Date: 30-Apr-2011 15:11

Laboratory Name

Data file : \\ELABNSH05\TARGET\chem\bna3.i\042911b3.b\SEQ-CALB.D
Lab Smp Id: SEQ-CALB Client Smp ID: SEQ-CALB
Inj Date : 29-APR-2011 23:15 MS Autotune Date: 07-SEP-2010 05:33
Operator : MEC Inst ID: bna3.i
Smp Info : CAL20.0PPM;;;;;;11A0538
Misc Info : ;;;;;;cal_2.sub;
Comment :
Method : \\ELABNSH05\TARGET\chem\bna3.i\042911b3.b\IXBN3.m
Meth Date : 30-Apr-2011 15:11 mcobb Quant Type: ISTD
Cal Date : 30-APR-2011 01:58 Cal File: SEQ-CALG.D
Als bottle: 12 Calibration Sample, Level: 3
Dil Factor: 1.00000
Integrator: HP RTE Compound Sublist: cal_2.sub
Target Version: 4.04
Processing Host: TARGET09_VM

Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	AMOUNTS CAL-AMT (ng/ul)	AMOUNTS ON-COL (ng/ul)
* 1 1,4-Dichlorobenzene-d4	152	6.387	6.387	(1.000)	762338	40.0000	
5 1,4-Dioxane	88	2.979	2.979	(0.466)	199559	20.0000	19.37
32 Benzaldehyde	106	5.826	5.826	(0.912)	388636	20.0000	20.19
* 33 Naphthalene-d8	136	8.022	8.022	(1.000)	2698869	40.0000	
62 2,6-Dichlorophenol	162	8.123	8.123	(1.013)	393989	20.0000	19.56
57 Acetophenone	105	6.900	6.900	(1.080)	658209	20.0000	19.16
67 1,2,4,5-Tetrachlorobenzene	216	9.143	9.143	(1.140)	443263	20.0000	19.59
68 Caprolactam	113	8.545	8.545	(1.065)	151032	20.0000	19.84
* 69 Acenaphthene-d10	164	10.244	10.244	(1.000)	1585190	40.0000	
100 1,1'-Biphenyl	154	9.528	9.528	(0.930)	1096373	20.0000	19.15
* 102 Phenanthrene-d10	188	12.092	12.092	(1.000)	2616799	40.0000	
129 Atrazine	200	11.745	11.745	(0.971)	298072	20.0000	19.43
* 132 Chrysene-d12	240	16.254	16.254	(1.000)	2833376	40.0000	
133 Benzidine	184	13.973	13.973	(0.860)	915326	20.0000	20.15
137 3,3'-Dichlorobenzidine	252	16.206	16.206	(0.997)	560432	20.0000	19.45
* 154 Perylene-d12	264	19.010	19.010	(1.000)	2848254	40.0000	

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GLQ
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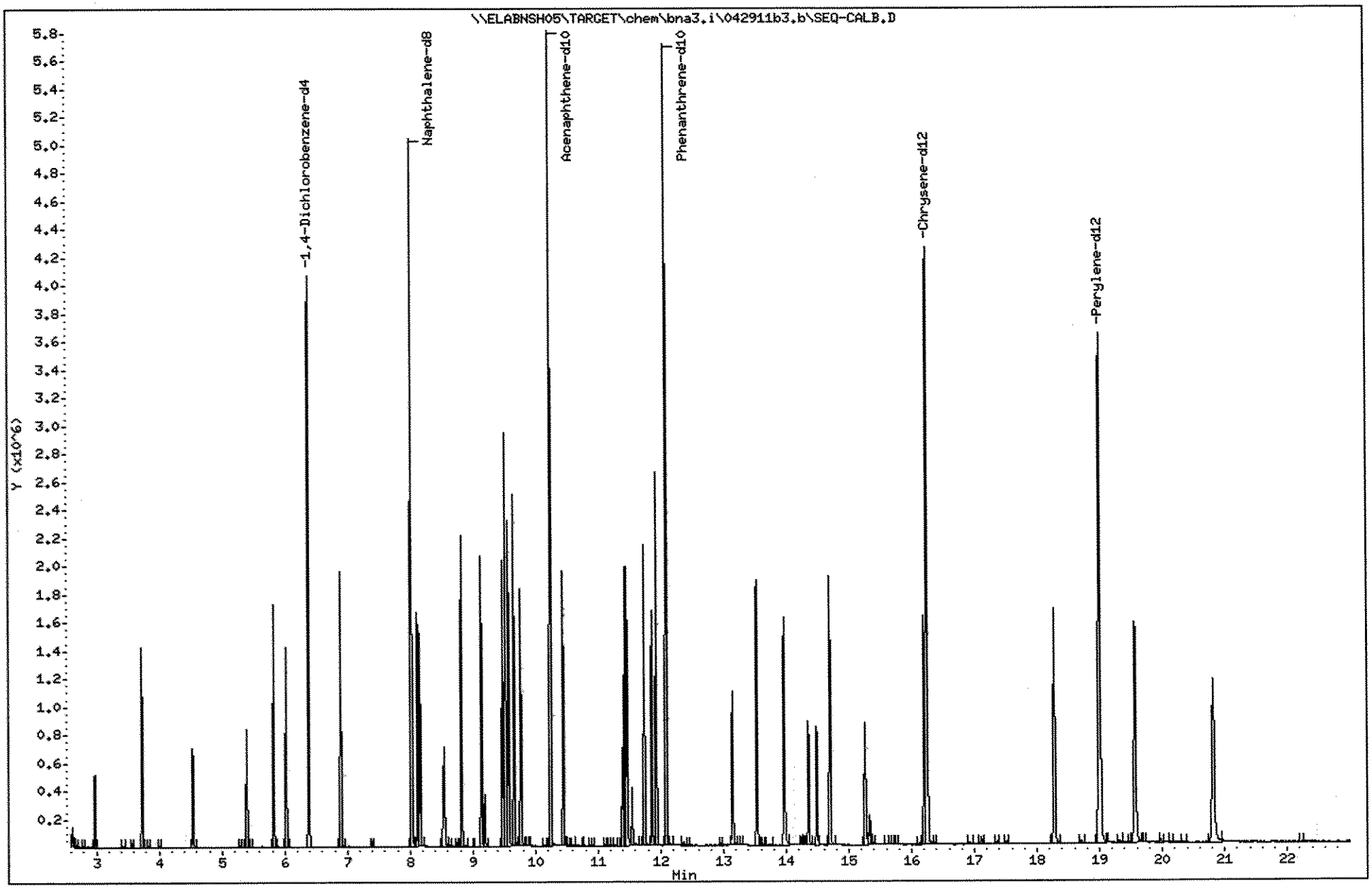
Data File: \\ELABNSH05\TARGET\chem\bna3.i\042911b3.b\SEQ-CALB.D
Date : 29-APR-2011 23:15
Client ID: SEQ-CALB
Sample Info: CAL20.0PPM;;;;;;11A0538

Column phase: fused silica

Instrument: bna3.i

Operator: MEC
Column diameter: 0.25



656

1109191

Data File: \\ELABNSH05\TARGET\chem\bna3.i\042911b3.b\SEQ-CALC.D
Report Date: 30-Apr-2011 15:11

Laboratory Name

Data file : \\ELABNSH05\TARGET\chem\bna3.i\042911b3.b\SEQ-CALC.D
Lab Smp Id: SEQ-CALC Client Smp ID: SEQ-CALC
Inj Date : 29-APR-2011 23:47 MS Autotune Date: 07-SEP-2010 05:33
Operator : MEC Inst ID: bna3.i
Smp Info : CAL40.0PPM;;;;;;11A0539
Misc Info : ;;;;;;cal_2.sub;
Comment :
Method : \\ELABNSH05\TARGET\chem\bna3.i\042911b3.b\IXBN3.m
Meth Date : 30-Apr-2011 15:11 mcobb Quant Type: ISTD
Cal Date : 30-APR-2011 01:58 Cal File: SEQ-CALG.D
Als bottle: 13 Calibration Sample, Level: 4
Dil Factor: 1.00000
Integrator: HP RTE Compound Sublist: cal_2.sub
Target Version: 4.04
Processing Host: TARGET09_VM

Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	AMOUNTS CAL-AMT (ng/ul)	AMOUNTS ON-COL (ng/ul)
* 1 1,4-Dichlorobenzene-d4	152	6.379	6.379	(1.000)	634839	40.0000	
5 1,4-Dioxane	88	2.955	2.955	(0.463)	332255	40.0000	38.73
32 Benzaldehyde	106	5.824	5.824	(0.913)	651463	40.0000	40.64
* 33 Naphthalene-d8	136	8.020	8.020	(1.000)	2273366	40.0000	
62 2,6-Dichlorophenol	162	8.126	8.126	(1.013)	700672	40.0000	41.30
57 Acetophenone	105	6.898	6.898	(1.081)	1153493	40.0000	40.33
67 1,2,4,5-Tetrachlorobenzene	216	9.141	9.141	(1.140)	770368	40.0000	40.43
68 Caprolactam	113	8.559	8.559	(1.067)	268022	40.0000	41.79
* 69 Acenaphthene-d10	164	10.242	10.242	(1.000)	1321770	40.0000	
100 1,1'-Biphenyl	154	9.526	9.526	(0.930)	1884753	40.0000	39.49
* 102 Phenanthrene-d10	188	12.090	12.090	(1.000)	2193684	40.0000	
129 Atrazine	200	11.748	11.748	(0.972)	512392	40.0000	39.85
* 132 Chrysene-d12	240	16.246	16.246	(1.000)	2362210	40.0000	
133 Benzidine	184	13.976	13.976	(0.860)	1568539	40.0000	41.42
137 3,3'-Dichlorobenzidine	252	16.204	16.204	(0.997)	992437	40.0000	41.32
* 154 Perylene-d12	264	19.003	19.003	(1.000)	2347592	40.0000	

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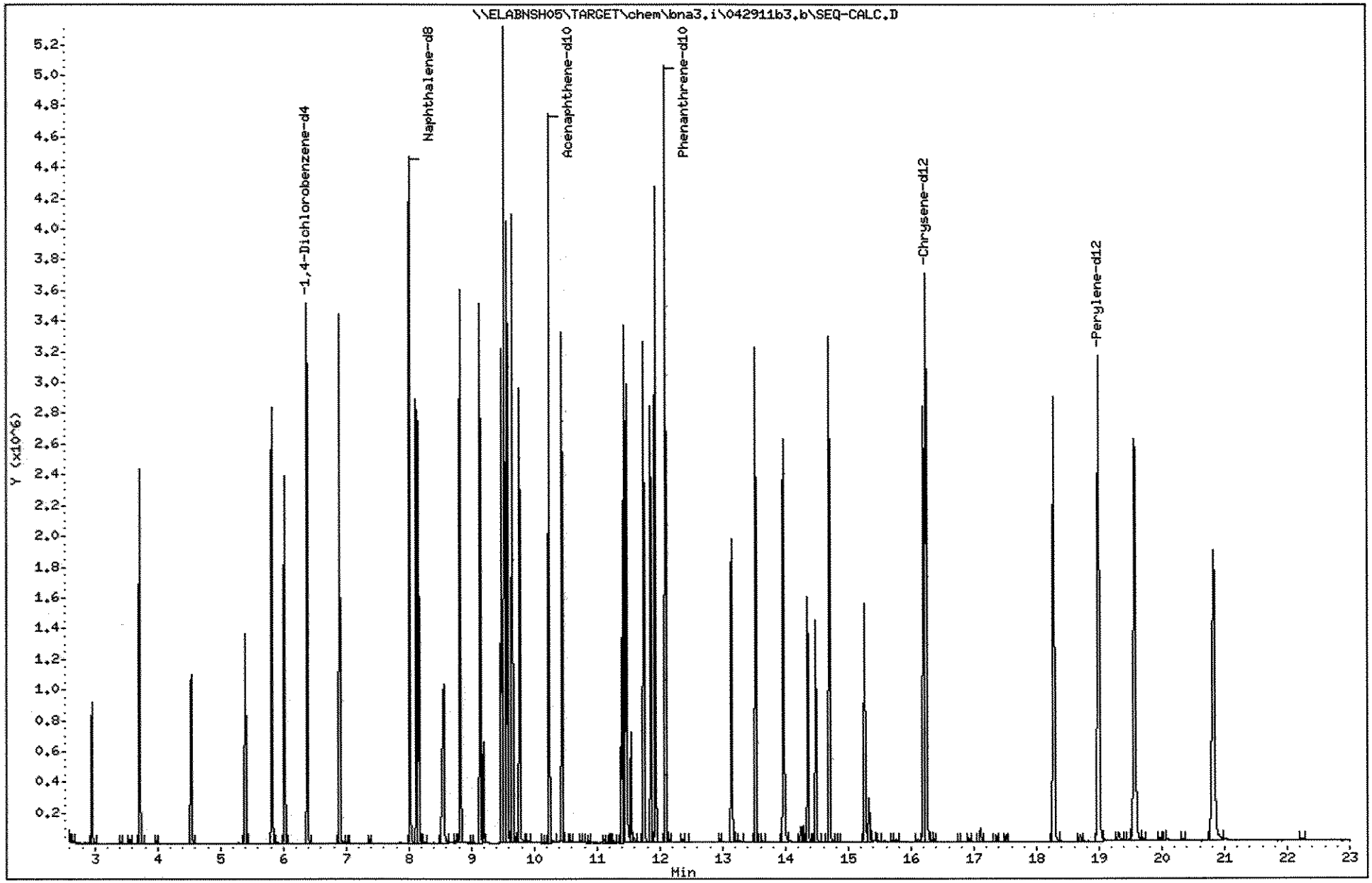
GLQ
5/6/11

Data File: \\ELABNSH05\TARGET\chem\bna3.i\042911b3.b\SEQ-CALC.D
Date : 29-APR-2011 23:47
Client ID: SEQ-CALC
Sample Info: CAL40.0PPM;;;;;;11A0539

Column phase: fused silica

Instrument: bna3.i

Operator: MEC
Column diameter: 0.25



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1109191

Data File: \\ELABNSH05\TARGET\chem\bna3.i\042911b3.b\SEQ-CALD.D
Report Date: 30-Apr-2011 15:12

Laboratory Name

Data file : \\ELABNSH05\TARGET\chem\bna3.i\042911b3.b\SEQ-CALD.D
Lab Smp Id: SEQ-CALD Client Smp ID: SEQ-CALD
Inj Date : 30-APR-2011 00:20 MS Autotune Date: 07-SEP-2010 05:33
Operator : MEC Inst ID: bna3.i
Smp Info : CAL50.0PPM;;;;;;11A0540
Misc Info : ;;;;;;cal_2.sub;
Comment :
Method : \\ELABNSH05\TARGET\chem\bna3.i\042911b3.b\IXBN3.m
Meth Date : 30-Apr-2011 15:11 mcobb Quant Type: ISTD
Cal Date : 30-APR-2011 01:58 Cal File: SEQ-CALG.D
Als bottle: 14 Calibration Sample, Level: 5
Dil Factor: 1.00000
Integrator: HP RTE Compound Sublist: cal_2.sub
Target Version: 4.04
Processing Host: TARGET09_VM

Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	AMOUNTS CAL-AMT (ng/ul)	AMOUNTS ON-COL (ng/ul)
* 1 1,4-Dichlorobenzene-d4	152	6.380	6.380	(1.000)	372214	40.0000	
5 1,4-Dioxane	88	2.945	2.945	(0.462)	245308	50.0000	48.76
32 Benzaldehyde	106	5.819	5.819	(0.912)	456770	50.0000	48.60
* 33 Naphthalene-d8	136	8.015	8.015	(1.000)	1376998	40.0000	
62 2,6-Dichlorophenol	162	8.122	8.122	(1.013)	500021	50.0000	48.66
57 Acetophenone	105	6.893	6.893	(1.080)	832395	50.0000	49.64
67 1,2,4,5-Tetrachlorobenzene	216	9.137	9.137	(1.140)	564259	50.0000	48.89
68 Caprolactam	113	8.549	8.549	(1.067)	196944	50.0000	50.70
* 69 Acenaphthene-d10	164	10.237	10.237	(1.000)	776204	40.0000	
100 1,1'-Biphenyl	154	9.521	9.521	(0.930)	1389357	50.0000	49.57
* 102 Phenanthrene-d10	188	12.086	12.086	(1.000)	1281508	40.0000	
129 Atrazine	200	11.744	11.744	(0.972)	377913	50.0000	50.31
* 132 Chrysene-d12	240	16.237	16.237	(1.000)	1378789	40.0000	
133 Benzidine	184	13.966	13.966	(0.860)	1106608	50.0000	50.06
137 3,3'-Dichlorobenzidine	252	16.199	16.199	(0.998)	710945	50.0000	50.71
* 154 Perylene-d12	264	18.988	18.988	(1.000)	1357688	40.0000	

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GLQ
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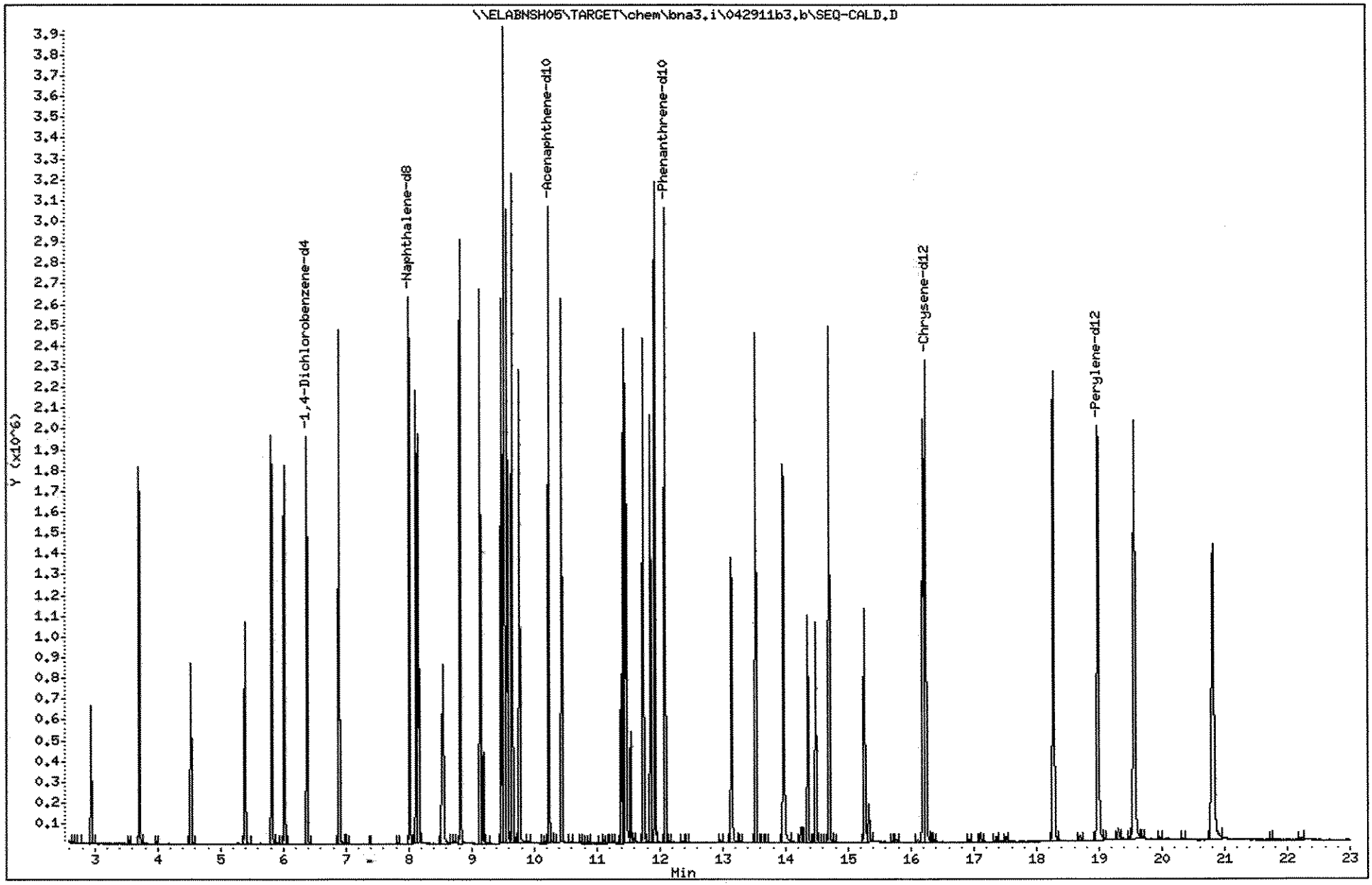
Data File: \\ELABNSH05\TARGET\chem\bna3.i\042911b3.b\SEQ-CALD.D
Date : 30-APR-2011 00:20
Client ID: SEQ-CALD
Sample Info: CAL50.0PPM;;;;;;11A0540

Column phase: fused silica

Instrument: bna3.i

Operator: MEC
Column diameter: 0.25



660

1109191

Data File: \\ELABNSH05\TARGET\chem\bna3.i\042911b3.b\SEQ-CALE.D
Report Date: 30-Apr-2011 15:12

Laboratory Name

Data file : \\ELABNSH05\TARGET\chem\bna3.i\042911b3.b\SEQ-CALE.D
Lab Smp Id: SEQ-CALE Client Smp ID: SEQ-CALE
Inj Date : 30-APR-2011 00:53 MS Autotune Date: 07-SEP-2010 05:33
Operator : MEC Inst ID: bna3.i
Smp Info : CAL60.0PPM;;;;;;11A0541
Misc Info : ;;;;;;cal_2.sub;
Comment :
Method : \\ELABNSH05\TARGET\chem\bna3.i\042911b3.b\IXBN3.m
Meth Date : 30-Apr-2011 15:12 mcobb Quant Type: ISTD
Cal Date : 30-APR-2011 01:58 Cal File: SEQ-CALG.D
Als bottle: 15 Calibration Sample, Level: 6
Dil Factor: 1.00000
Integrator: HP RTE Compound Sublist: cal_2.sub
Target Version: 4.04
Processing Host: TARGET09_VM

Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	AMOUNTS CAL-AMT (ng/ul)	AMOUNTS ON-COL (ng/ul)
* 1 1,4-Dichlorobenzene-d4	152	6.382	6.382	(1.000)	465036	40.0000	
5 1,4-Dioxane	88	2.958	2.958	(0.463)	376749	60.0000	59.95
32 Benzaldehyde	106	5.827	5.827	(0.913)	672156	60.0000	57.24
* 33 Naphthalene-d8	136	8.022	8.022	(1.000)	1684084	40.0000	
62 2,6-Dichlorophenol	162	8.129	8.129	(1.013)	763197	60.0000	60.73
57 Acetophenone	105	6.900	6.900	(1.081)	1235183	60.0000	58.96
67 1,2,4,5-Tetrachlorobenzene	216	9.144	9.144	(1.140)	835589	60.0000	59.19
68 Caprolactam	113	8.562	8.562	(1.067)	297114	60.0000	62.54
* 69 Acenaphthene-d10	164	10.245	10.245	(1.000)	966679	40.0000	
100 1,1'-Biphenyl	154	9.529	9.529	(0.930)	2033615	60.0000	58.26
* 102 Phenanthrene-d10	188	12.093	12.093	(1.000)	1577061	40.0000	
129 Atrazine	200	11.751	11.751	(0.972)	549219	60.0000	59.41
* 132 Chrysene-d12	240	16.244	16.244	(1.000)	1715007	40.0000	
133 Benzidine	184	13.979	13.979	(0.861)	1657277	60.0000	60.27
137 3,3'-Dichlorobenzidine	252	16.206	16.206	(0.998)	1055052	60.0000	60.50
* 154 Perylene-d12	264	19.000	19.000	(1.000)	1677672	40.0000	

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GLQ
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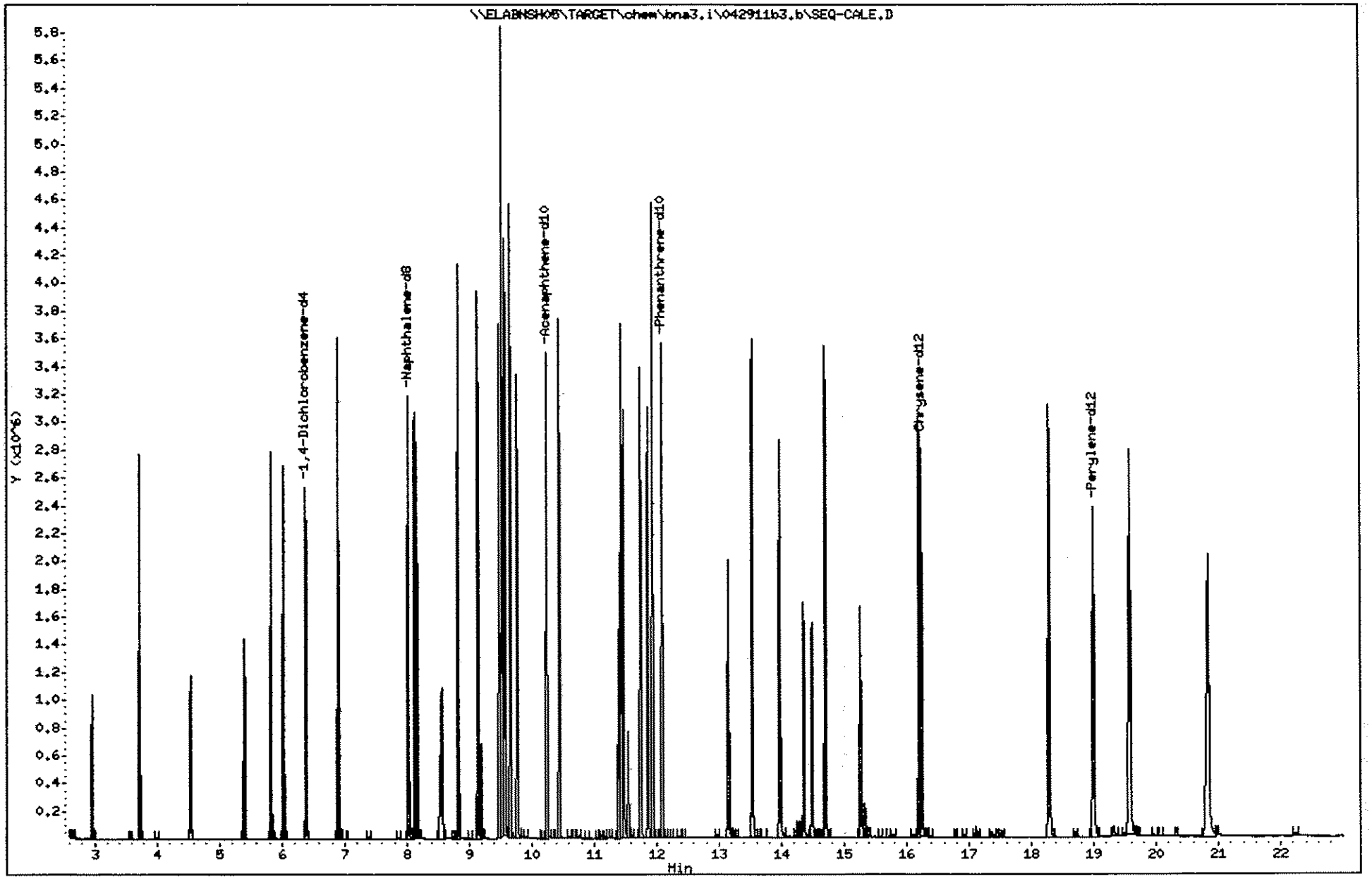
Data File: \\ELABNSHO5\TARGET\chem\bna3.i\042911b3.b\SEQ-CALE.D
Date : 30-APR-2011 00:53
Client ID: SEQ-CALE
Sample Info: CAL60.0PPM;;;;;;11A0541

Column phase: fused silica

Instrument: bna3.i

Operator: MEC
Column diameter: 0.25



662

1109191

Data File: \\ELABNSH05\TARGET\chem\bna3.i\042911b3.b\SEQ-CALF.D
Report Date: 30-Apr-2011 15:12

Laboratory Name

Data file : \\ELABNSH05\TARGET\chem\bna3.i\042911b3.b\SEQ-CALF.D
Lab Smp Id: SEQ-CALF Client Smp ID: SEQ-CALF
Inj Date : 30-APR-2011 01:25 MS Autotune Date: 07-SEP-2010 05:33
Operator : MEC Inst ID: bna3.i
Smp Info : CAL80.0PPM;;;;;;11A0542
Misc Info : ;;;;;;cal_2.sub;
Comment :
Method : \\ELABNSH05\TARGET\chem\bna3.i\042911b3.b\IXBN3.m
Meth Date : 30-Apr-2011 15:12 mcobb Quant Type: ISTD
Cal Date : 30-APR-2011 01:58 Cal File: SEQ-CALG.D
Als bottle: 16 Calibration Sample, Level: 7
Dil Factor: 1.00000
Integrator: HP RTE Compound Sublist: cal_2.sub
Target Version: 4.04
Processing Host: TARGET09_VM

Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	AMOUNTS CAL-AMT (ng/ul)	AMOUNTS ON-COL (ng/ul)
* 1 1,4-Dichlorobenzene-d4	152	6.383	6.383	(1.000)	233659	40.0000	
5 1,4-Dioxane	88	2.948	2.948	(0.462)	266169	80.0000	84.29
32 Benzaldehyde	106	5.822	5.822	(0.912)	445204	80.0000	75.45
* 33 Naphthalene-d8	136	8.017	8.017	(1.000)	873475	40.0000	
62 2,6-Dichlorophenol	162	8.124	8.124	(1.013)	521927	80.0000	80.08
57 Acetophenone	105	6.901	6.901	(1.081)	846803	80.0000	80.45
67 1,2,4,5-Tetrachlorobenzene	216	9.139	9.139	(1.140)	574851	80.0000	78.52
68 Caprolactam	113	8.552	8.552	(1.067)	198986	80.0000	80.75
* 69 Acenaphthene-d10	164	10.240	10.240	(1.000)	484537	40.0000	
100 1,1'-Biphenyl	154	9.524	9.524	(0.930)	1419979	80.0000	81.15
* 102 Phenanthrene-d10	188	12.088	12.088	(1.000)	806265	40.0000	
129 Atrazine	200	11.746	11.746	(0.972)	377769	80.0000	79.93
* 132 Chrysene-d12	240	16.239	16.239	(1.000)	869967	40.0000	
133 Benzidine	184	13.974	13.974	(0.861)	1098405	80.0000	78.75
137 3,3'-Dichlorobenzidine	252	16.202	16.202	(0.998)	719465	80.0000	81.33
* 154 Perylene-d12	264	18.990	18.990	(1.000)	855438	40.0000	

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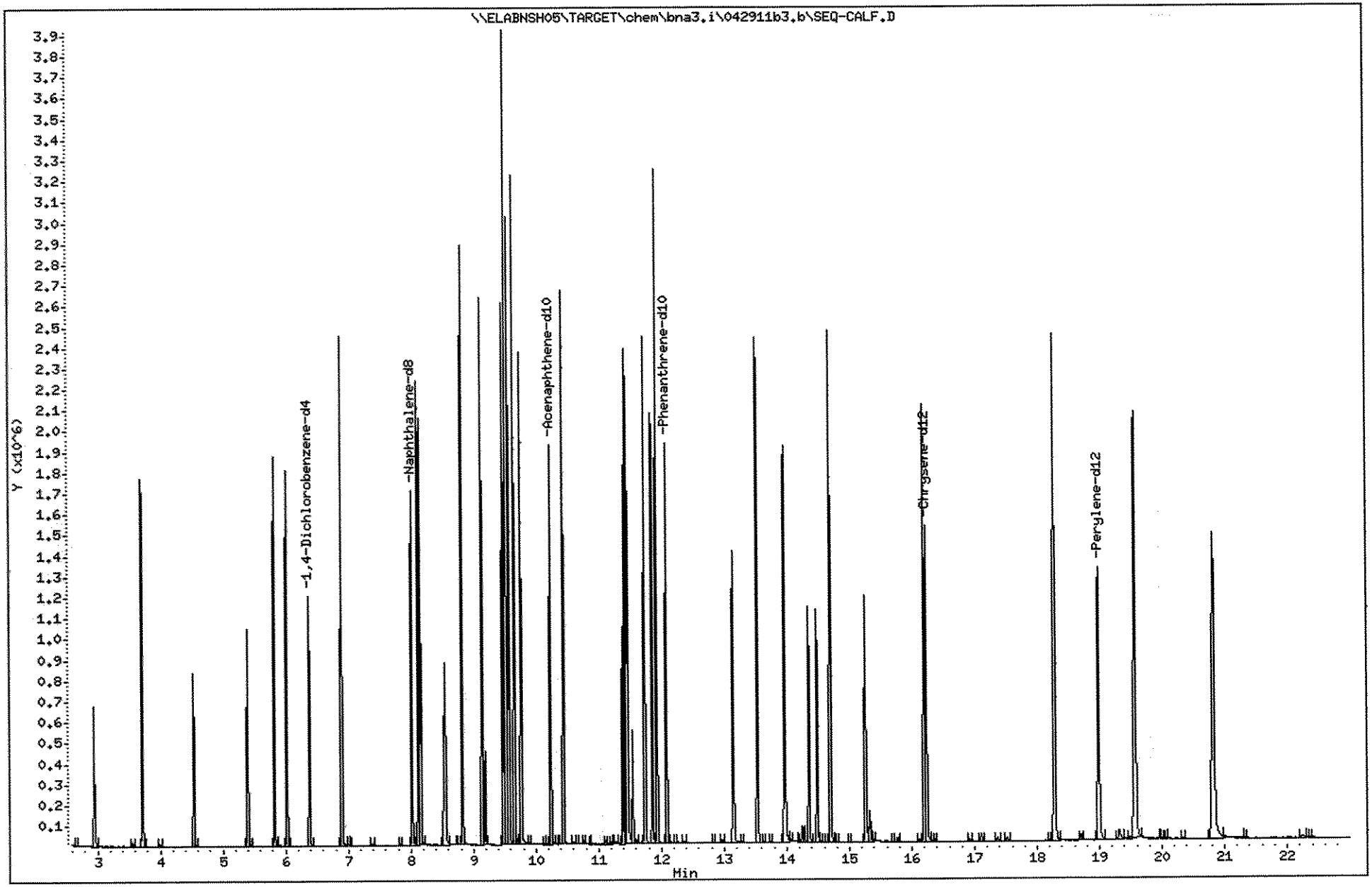
GLQ
5/6/11

Data File: \\ELABNSH05\TARGET\chem\bna3.i\042911b3.b\SEQ-CALF.D
Date : 30-APR-2011 01:25
Client ID: SEQ-CALF
Sample Info: CAL80.0PPM;;;;;;11A0542

Column phase: fused silica

Instrument: bna3.i

Operator: MEC
Column diameter: 0.25



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Report Date: 30-Apr-2011 15:12

Laboratory Name

Data file : \\ELABNSH05\TARGET\chem\bna3.i\042911b3.b\SEQ-CALG.D
Lab Smp Id: SEQ-CALG
Client Smp ID: SEQ-CALG
Inj Date : 30-APR-2011 01:58
MS Autotune Date: 07-SEP-2010 05:33
Operator : MEC
Inst ID: bna3.i
Smp Info : CAL100.0PPM;;;;;;11A0543
Misc Info : ;;;;;;cal_2.sub;
Comment :
Method : \\ELABNSH05\TARGET\chem\bna3.i\042911b3.b\IXBN3.m
Meth Date : 30-Apr-2011 15:12 mcobb
Quant Type: ISTD
Cal Date : 30-APR-2011 01:58
Cal File: SEQ-CALG.D
Als bottle: 17
Calibration Sample, Level: 8
Dil Factor: 1.00000
Integrator: HP RTE
Compound Sublist: cal_2.sub
Target Version: 4.04
Processing Host: TARGET09_VM

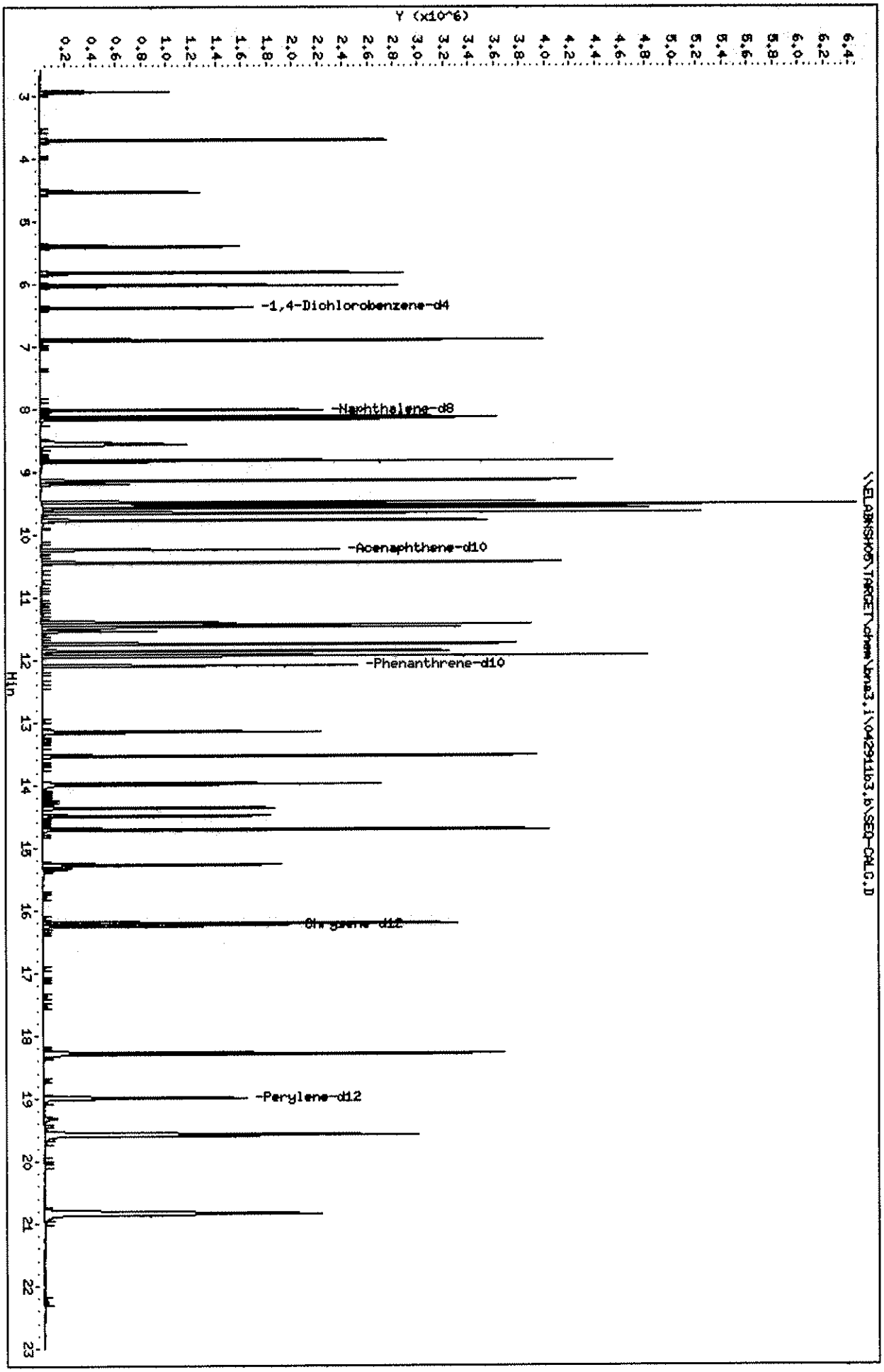
Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	AMOUNTS CAL-AMT (ng/ul)	AMOUNTS ON-COL (ng/ul)
* 1 1,4-Dichlorobenzene-d4	152	6.380	6.380	(1.000)	312845	40.0000	
5 1,4-Dioxane	88	2.940	2.940	(0.461)	406346	100.000	96.11
32 Benzaldehyde	106	5.825	5.825	(0.913)	701417	100.000	88.78
* 33 Naphthalene-d8	136	8.020	8.020	(1.000)	1144624	40.0000	
62 2,6-Dichlorophenol	162	8.127	8.127	(1.013)	852682	100.000	99.83
57 Acetophenone	105	6.904	6.904	(1.082)	1389287	100.000	98.58
67 1,2,4,5-Tetrachlorobenzene	216	9.142	9.142	(1.140)	925594	100.000	96.47
68 Caprolactam	113	8.571	8.571	(1.069)	333777	100.000	103.4(A)
* 69 Acenaphthene-d10	164	10.243	10.243	(1.000)	645279	40.0000	
100 1,1'-Biphenyl	154	9.532	9.532	(0.931)	2266970	100.000	97.29
* 102 Phenanthrene-d10	188	12.091	12.091	(1.000)	1073253	40.0000	
129 Atrazine	200	11.754	11.754	(0.972)	619197	100.000	98.42
* 132 Chrysene-d12	240	16.242	16.242	(1.000)	1144694	40.0000	
133 Benzidine	184	13.982	13.982	(0.861)	1746656	100.000	95.17
137 3,3'-Dichlorobenzidine	252	16.210	16.210	(0.998)	1182294	100.000	101.6(A)
* 154 Perylene-d12	264	18.993	18.993	(1.000)	1115973	40.0000	

QC Flag Legend

A - Target compound detected but, quantitated amount exceeded maximum amount.

Data File: \\ELABNSHO5\TARGET\chem\bna3.i\042911b3.b\SEQ-CALC.D
Date : 30-APR-2011 01:58
Client ID: SEQ-CALC
Sample Info: CAL100,0PPM;;;;;;;11A0543
Column phase: fused silica

Instrument: bna3.i
Operator: HEC
Column diameter: 0.25



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Report Date: 02-May-2011 11:30

Laboratory Name

Data file : \\ELABNSH05\TARGET\chem\bna3.i\043011b3.b\SEQ-ICV1.D
Lab Smp Id: SEQ-ICV1 Client Smp ID: SEQ-ICV1
Inj Date : 30-APR-2011 15:07 MS Autotune Date: 07-SEP-2010 05:33
Operator : MEC Inst ID: bna3.i
Smp Info : ICV-50PPM;;;;;;11A0288
Misc Info : ;0;;;;;cal_1.sub;
Comment :
Method : \\ELABNSH05\TARGET\chem\bna3.i\043011b3.b\IXBN3.m
Meth Date : 30-Apr-2011 15:33 mcobb Quant Type: ISTD
Cal Date : 30-APR-2011 01:58 Cal File: SEQ-CALG.D
Als bottle: 2
Dil Factor: 1.00000
Integrator: HP RTE Compound Sublist: cal_1.sub
Target Version: 4.04

Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS ON-COLUMN (ng/ul)	FINAL (ng/ul)
* 1 1,4-Dichlorobenzene-d4	152	6.391	6.389	(1.000)	557812	40.0000	
$ 2 2-Fluorophenol	112	4.741	4.738	(0.742)	1824636	114.556	114.6(AR)
$ 3 Phenol-d6	99	5.911	5.908	(0.925)	2348763	107.075	107.1(AR)
4 Pyridine	79	3.314	3.306	(0.519)	1147555	55.4959	55.50
6 N-Nitroso-di-methylamine	42	3.272	3.264	(0.512)	518052	54.2618	54.26
7 Aniline	93	5.969	5.967	(0.934)	1370564	46.8141	46.81
10 Phenol	94	5.932	5.924	(0.928)	1225150	52.0555	52.06
11 bis(2-Chloroethyl)ether	93	6.055	6.052	(0.947)	951488	52.5719	52.57
12 2-Chlorophenol	128	6.119	6.116	(0.957)	979501	53.4134	53.41
13 1,3-Dichlorobenzene	146	6.317	6.314	(0.988)	1042687	52.3689	52.37
14 1,4-Dichlorobenzene	146	6.413	6.416	(1.003)	1065981	52.9014	52.90
15 Benzyl alcohol	108	6.573	6.565	(1.028)	672609	55.6459	55.64
16 1,2-Dichlorobenzene	146	6.605	6.603	(1.033)	1006898	53.3352	53.34
17 2-Methylphenol	108	6.707	6.699	(1.049)	887821	52.6747	52.67
18 2,2'-Oxybis-1-chloropropane	45	6.749	6.747	(1.056)	1410133	51.9327	51.93
19 3-Methylphenol	108	6.915	6.907	(1.082)	905598	51.1975	51.20
20 4-Methylphenol	108	6.915	6.907	(1.082)	905598	51.1975	51.20
21 N-Nitroso-di-n-propylamine	70	6.926	6.923	(1.084)	782234	54.2504	54.25
22 Hexachloroethane	117	7.043	7.041	(1.102)	407192	53.4331	53.43
* 33 Naphthalene-d8	136	8.031	8.029	(1.000)	1995847	40.0000	
$ 34 Nitrobenzene-d5	82	7.107	7.105	(0.885)	1137555	55.9403	55.94(R)
35 Nitrobenzene	77	7.134	7.131	(0.888)	1081234	52.7509	52.75
39 Isophorone	82	7.455	7.447	(0.928)	1903610	51.2598	51.26
40 2-Nitrophenol	139	7.540	7.537	(0.939)	518963	53.5727	53.57
42 2,4-Dimethylphenol	107	7.599	7.596	(0.946)	976275	53.8032	53.80
43 Benzoic acid	105	7.791	7.772	(0.970)	754308	56.4215	56.42
44 bis(2-Chloroethoxy)methane	93	7.732	7.730	(0.963)	1163163	54.5957	54.60

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Data File: \\ELABNSH05\TARGET\chem\bna3.i\043011b3.b\SEQ-ICV1.D
Report Date: 02-May-2011 11:30

Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS ON-COLUMN (ng/ul)	FINAL (ng/ul)
47 2,4-Dichlorophenol	162	7.850	7.847	(0.977)	794623	52.2709	52.27
50 1,2,4-Trichlorobenzene	180	7.957	7.954	(0.991)	863130	50.5551	50.56
51 Naphthalene	128	8.058	8.056	(1.003)	2626062	52.8472	52.85
52 4-Chloroaniline	127	8.128	8.125	(1.012)	1070543	50.7781	50.78
53 Hexachlorobutadiene	225	8.218	8.216	(1.023)	527936	56.6245	56.62
54 4-Chloro-3-methylphenol	107	8.742	8.739	(1.088)	818631	52.6949	52.69
55 2-Methylnaphthalene	141	8.940	8.937	(1.113)	1556453	52.2143	52.21
56 1-Methylnaphthalene	141	9.068	9.065	(1.129)	1478966	50.4724	50.47
* 69 Acenaphthene-d10	164	10.254	10.251	(1.000)	1155973	40.0000	
70 Hexachlorocyclopentadiene	237	9.137	9.135	(0.891)	547326	50.5075	50.51
71 2,4,6-Trichlorophenol	196	9.292	9.290	(0.906)	592636	53.6825	53.68
72 2,4,5-Trichlorophenol	196	9.335	9.332	(0.910)	628297	52.4807	52.48
73 2-Chloronaphthalene	162	9.554	9.551	(0.932)	1658621	52.7623	52.76
$ 74 2-Fluorobiphenyl	172	9.410	9.407	(0.918)	1978695	54.1075	54.11(R)
75 2-Nitroaniline	65	9.688	9.680	(0.945)	575960	53.8611	53.86
76 Dimethylphthalate	163	9.939	9.931	(0.969)	1872960	52.0795	52.08
77 Acenaphthylene	152	10.078	10.075	(0.983)	2596321	52.0750	52.07
78 2,6-Dinitrotoluene	165	10.003	10.000	(0.976)	463411	53.5966	53.60
79 3-Nitroaniline	138	10.211	10.203	(0.996)	496709	53.1988	53.20
80 Acenaphthene	153	10.297	10.294	(1.004)	1636044	50.9853	50.98
83 4-Nitrophenol	65	10.409	10.401	(1.015)	422342	53.6957	53.70
84 Dibenzofuran	168	10.510	10.508	(1.025)	2358819	53.1699	53.17
85 2,4-Dinitrotoluene	165	10.500	10.497	(1.024)	601829	52.9921	52.99
86 Diethylphthalate	149	10.809	10.801	(1.054)	1801711	52.1828	52.18
87 4-Chlorophenyl-phenylether	204	10.938	10.935	(1.067)	933594	51.8250	51.82
88 Fluorene	166	10.938	10.935	(1.067)	2038481	52.7374	52.74
89 4-Nitroaniline	138	10.980	10.967	(1.071)	501377	53.0085	53.01
96 2,3,4,6-Tetrachlorophenol	232	10.660	10.657	(1.040)	484434	50.1773	50.18
* 102 Phenanthrene-d10	188	12.097	12.094	(1.000)	1900041	40.0000	
103 1,2-Diphenylhydrazine	77	11.141	11.133	(0.921)	2088621	51.6862	51.69
104 Carbazole	167	12.401	12.393	(1.025)	2544270	51.2863	51.29
106 N-Nitrosodiphenylamine	169	11.093	11.090	(0.917)	1701675	53.2390	53.24
$ 107 2,4,6-Tribromophenol	330	11.237	11.234	(0.929)	570120	109.242	109.2(AR)
108 4-Bromophenyl-phenylether	248	11.547	11.544	(0.955)	574261	52.9130	52.91
109 Hexachlorobenzene	284	11.616	11.608	(0.960)	621318	53.5275	53.53
111 Phenanthrene	178	12.134	12.126	(1.003)	2728162	53.3837	53.38
112 Anthracene	178	12.198	12.190	(1.008)	2761713	53.2091	53.21
115 Di-n-butylphthalate	149	12.871	12.869	(1.064)	2928883	52.1647	52.16
116 Fluoranthene	202	13.774	13.766	(1.139)	3088710	52.7007	52.70
* 132 Chrysene-d12	240	16.269	16.261	(1.000)	2024170	40.0000	
134 Pyrene	202	14.127	14.119	(0.868)	3224686	54.7564	54.76
$ 135 Terphenyl-d14	244	14.389	14.381	(0.884)	2072060	54.8717	54.87(R)
136 Butylbenzylphthalate	149	15.259	15.257	(0.938)	1474995	56.8200	56.82
138 Benzo(a)anthracene	228	16.242	16.240	(0.998)	3055438	53.9437	53.94
139 Chrysene	228	16.322	16.315	(1.003)	2829832	53.3665	53.37
140 Bis(2-ethylhexyl)phthalate	149	16.387	16.384	(1.007)	1883843	54.8014	54.80
* 154 Perylene-d12	264	19.020	19.012	(1.000)	1963866	40.0000	

Data File: \\ELABNSH05\TARGET\chem\bna3.i\043011b3.b\SEQ-ICV1.D
Report Date: 02-May-2011 11:30

Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS ON-COLUMN (ng/ul)	FINAL (ng/ul)
155 Di-n-octylphthalate	149	17.685	17.682	(0.930)	3285300	55.5613	55.56
156 Benzo(b)fluoranthene	252	18.310	18.302	(0.963)	2862006	53.2993	53.30
157 Benzo(k)fluoranthene	252	18.368	18.361	(0.966)	2964041	54.5003	54.50
158 Benzo(a)pyrene	252	18.919	18.905	(0.995)	2811960	54.7625	54.76
159 Indeno(1,2,3-cd)pyrene	276	21.259	21.240	(1.118)	2842602	55.7781	55.78
160 Dibenz(a,h)anthracene	278	21.328	21.309	(1.121)	2782350	56.4182	56.42
161 Benzo(g,h,i)perylene	276	21.910	21.897	(1.152)	2804283	55.2855	55.28

QC Flag Legend

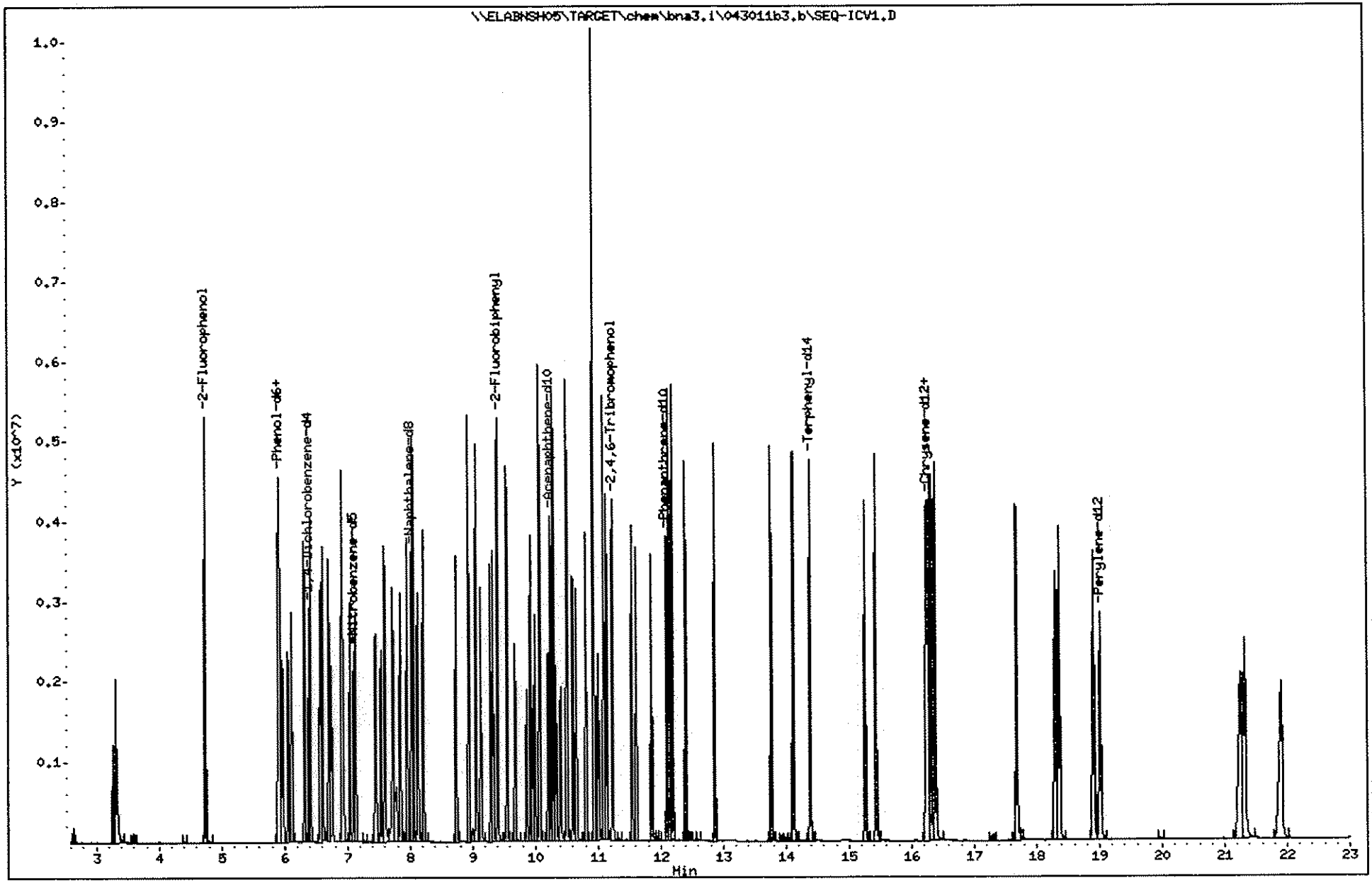
A - Target compound detected but, quantitated amount exceeded maximum amount.
R - Spike/Surrogate failed recovery limits.

Data File: \\ELABNSH05\TARGET\chem\bna3.i\043011b3.b\SEQ-ICV1.D
Date : 30-APR-2011 15:07
Client ID: SEQ-ICV1
Sample Info: ICV-50PPM;;;;;;11A0288

Instrument: bna3.i

Operator: MEC
Column diameter: 0.25

Column phase: fused silica



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Data File: \\ELABNSH05\TARGET\chem\bna3.i\043011b3.b\SEQ-ICV2.D
Report Date: 02-May-2011 11:31

Laboratory Name

Data file : \\ELABNSH05\TARGET\chem\bna3.i\043011b3.b\SEQ-ICV2.D
Lab Smp Id: SEQ-ICV2 Client Smp ID: SEQ-ICV2
Inj Date : 30-APR-2011 15:40 MS Autotune Date: 07-SEP-2010 05:33
Operator : MEC Inst ID: bna3.i
Smp Info : ICV-50PPM;;;;;;11A0290
Misc Info : ;0;;;;;cal_2.sub;
Comment :
Method : \\ELABNSH05\TARGET\chem\bna3.i\043011b3.b\IXBN3.m
Meth Date : 30-Apr-2011 15:33 mcobb Quant Type: ISTD
Cal Date : 30-APR-2011 01:58 Cal File: SEQ-CALG.D
Als bottle: 3
Dil Factor: 1.00000
Integrator: HP RTE Compound Sublist: cal_2.sub
Target Version: 4.04
Processing Host: TARGET09_VM

Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS ON-COLUMN (ng/ul)	FINAL (ng/ul)
* 1 1,4-Dichlorobenzene-d4	152	6.386	6.389	(1.000)	628383	40.0000	
5 1,4-Dioxane	88	2.972	2.940	(0.465)	414645	48.8259	48.82
32 Benzaldehyde	106	5.830	5.825	(0.913)	618815	38.9969	39.00
* 33 Naphthalene-d8	136	8.021	8.029	(1.000)	2284344	40.0000	
62 2,6-Dichlorophenol	162	8.127	8.127	(1.013)	883820	51.8501	51.85
57 Acetophenone	105	6.904	6.904	(1.081)	1383758	48.8815	48.88
67 1,2,4,5-Tetrachlorobenzene	216	9.142	9.142	(1.140)	987393	51.5676	51.57
68 Caprolactam	113	8.571	8.571	(1.069)	364588	56.5757	56.58
* 69 Acenaphthene-d10	164	10.243	10.251	(1.000)	1337189	40.0000	
100 1,1'-Biphenyl	154	9.527	9.532	(0.930)	2472292	51.1992	51.20
* 102 Phenanthrene-d10	188	12.091	12.094	(1.000)	2248728	40.0000	
129 Atrazine	200	11.749	11.754	(0.972)	664208	50.3899	50.39
* 132 Chrysene-d12	240	16.253	16.261	(1.000)	2442467	40.0000	
133 Benzidine	184	13.977	13.982	(0.860)	1920562	49.0456	49.04
137 3,3'-Dichlorobenzidine	252	16.210	16.210	(0.997)	1310484	52.7673	52.77
* 154 Perylene-d12	264	19.009	19.012	(1.000)	2437873	40.0000	

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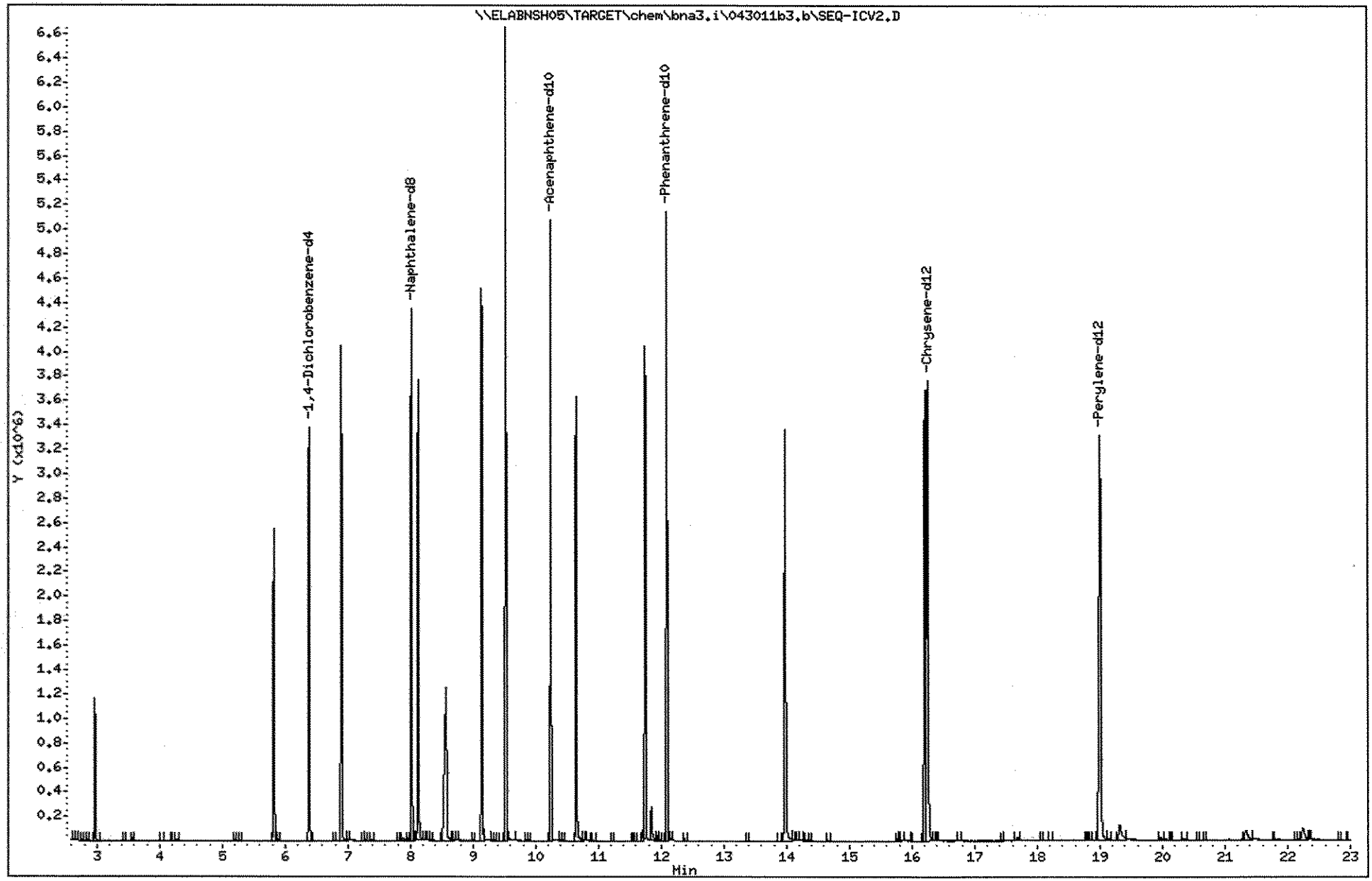
GLQ
5/6/11

Data File: \\ELABNSH05\TARGET\chem\bna3.i\043011b3.b\SEQ-ICV2.D
Date : 30-APR-2011 15:40
Client ID: SEQ-ICV2
Sample Info: ICV-50PPM;;;;;;11A0290

Column phase: fused silica

Instrument: bna3.i

Operator: MEC
Column diameter: 0.25



Data File: \\ELABNSH05\TARGET\chem\bna3.i\043011b3.b\SEQ-ICV5.D
Report Date: 02-May-2011 11:35

Laboratory Name

Data file : \\ELABNSH05\TARGET\chem\bna3.i\043011b3.b\SEQ-ICV5.D
Lab Smp Id: SEQ-ICV3 Client Smp ID: SEQ-ICV3
Inj Date : 30-APR-2011 17:19 MS Autotune Date: 07-SEP-2010 05:33
Operator : MEC Inst ID: bna3.i
Smp Info : ICV-50PPM;;;;;11D0228
Misc Info : ;0;;;;;ppbnax.sub;
Comment :
Method : \\ELABNSH05\TARGET\chem\bna3.i\043011b3.b\IXBN3.m
Meth Date : 30-Apr-2011 15:33 mcobb Quant Type: ISTD
Cal Date : 30-APR-2011 01:58 Cal File: SEQ-CALG.D
Als bottle: 6
Dil Factor: 1.00000
Integrator: HP RTE Compound Sublist: ppbnax.sub
Target Version: 4.04
Processing Host: TARGET09_VM

Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS ON-COLUMN (ng/ul)	FINAL (ng/ul)
* 1 1,4-Dichlorobenzene-d4	152	6.387	6.389	(1.000)	540287	40.0000	
* 33 Naphthalene-d8	136	8.027	8.029	(1.000)	1948456	40.0000	
* 69 Acenaphthene-d10	164	10.249	10.251	(1.000)	1127668	40.0000	
81 2,4-Dinitrophenol	184	10.329	10.331	(1.008)	323567	61.8928	61.89
* 102 Phenanthrene-d10	188	12.092	12.094	(1.000)	1874898	40.0000	
105 4,6-Dinitro-2-methylphenol	198	11.002	11.004	(0.910)	364279	53.4451	53.44
110 Pentachlorophenol	266	11.852	11.854	(0.980)	427127	56.1430	56.14
* 132 Chrysene-d12	240	16.264	16.261	(1.000)	2034046	40.0000	
* 154 Perylene-d12	264	19.010	19.012	(1.000)	1791296	40.0000	

5/2/11
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5/6/11

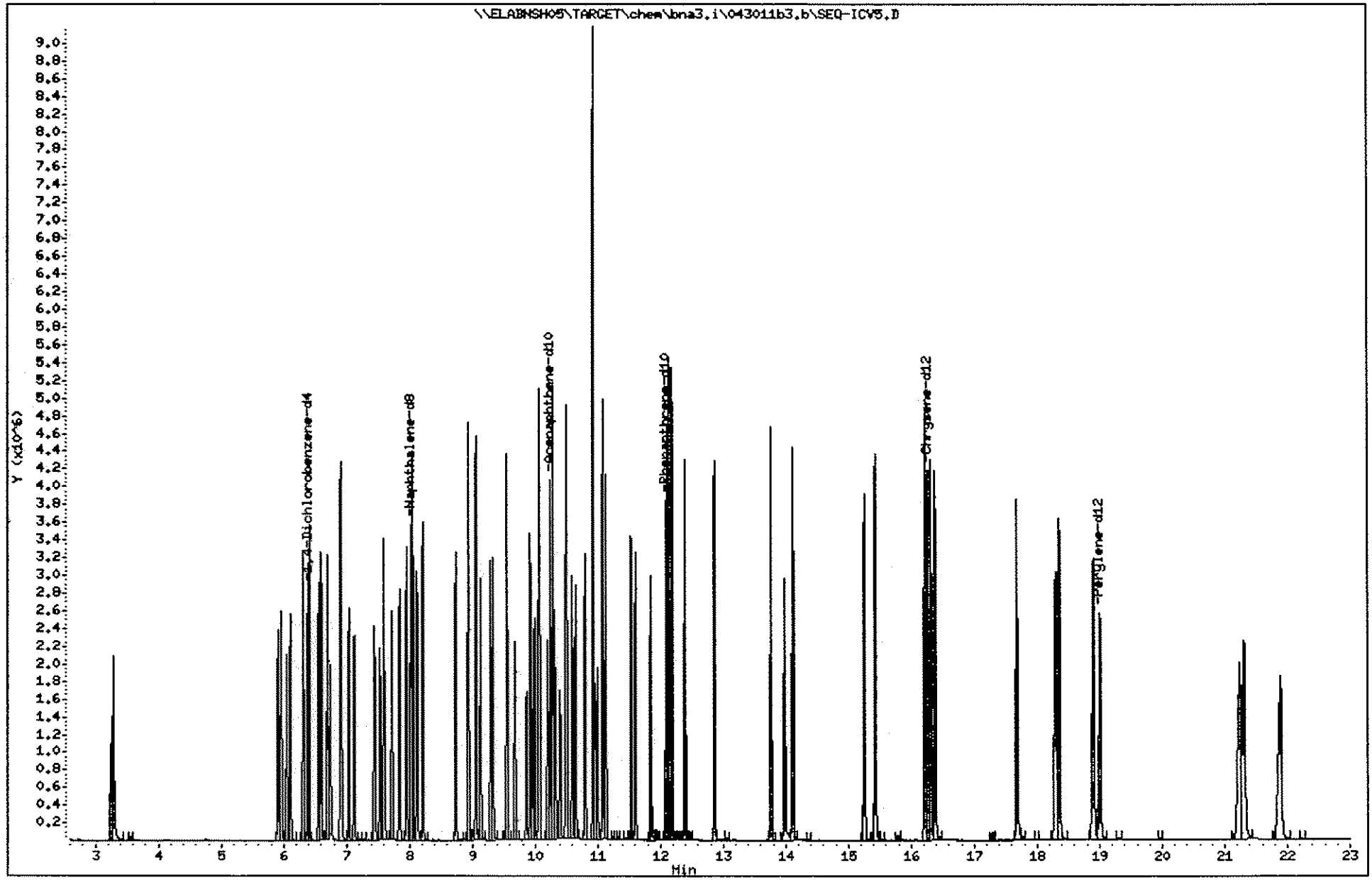
Data File: \\ELABNSHO5\TARGET\chem\bna3.i\043011b3.b\SEQ-ICV5.D
Date : 30-APR-2011 17:19
Client ID: SEQ-ICV3
Sample Info: ICV-50PPM;;;;;;11D0228

Instrument: bna3.i

Operator: HEC

Column phase: fused silica

Column diameter: 0.25



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Data File: \\ELABNSH05\TARGET\chem\bna3.i\050211b3.b\SEQ-ICV4.D
Report Date: 02-May-2011 15:06

Laboratory Name

Data file : \\ELABNSH05\TARGET\chem\bna3.i\050211b3.b\SEQ-ICV4.D
Lab Smp Id: SEQ-ICV4 Client Smp ID: SEQ-ICV4
Inj Date : 02-MAY-2011 14:16 MS Autotune Date: 07-SEP-2010 05:33
Operator : MEC Inst ID: bna3.i
Smp Info : ICV50PPM;;;;;;
Misc Info : ;;;;;;cal_2.sub;
Comment :
Method : \\ELABNSH05\TARGET\chem\bna3.i\050211b3.b\IXBN3.m
Meth Date : 30-Apr-2011 15:33 mcobb Quant Type: ISTD
Cal Date : 30-APR-2011 01:58 Cal File: SEQ-CALG.D
Als bottle: 2
Dil Factor: 1.00000
Integrator: HP RTE Compound Sublist: cal_2.sub
Target Version: 4.04
Processing Host: TARGET09_VM

Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS ON-COLUMN (ng/ul)	CONCENTRATIONS FINAL (ng/ul)
* 1 1,4-Dichlorobenzene-d4	152	6.385	6.389	(1.000)	570325	40.0000	
32 Benzaldehyde	106	5.830	5.825	(0.913)	732421	50.8548	50.85
* 33 Naphthalene-d8	136	8.020	8.029	(1.000)	2078712	40.0000	
* 69 Acenaphthene-d10	164	10.242	10.251	(1.000)	1185034	40.0000	
* 102 Phenanthrene-d10	188	12.091	12.094	(1.000)	1964853	40.0000	
* 132 Chrysene-d12	240	16.242	16.261	(1.000)	2129370	40.0000	
* 154 Perylene-d12	264	19.003	19.012	(1.000)	2111160	40.0000	

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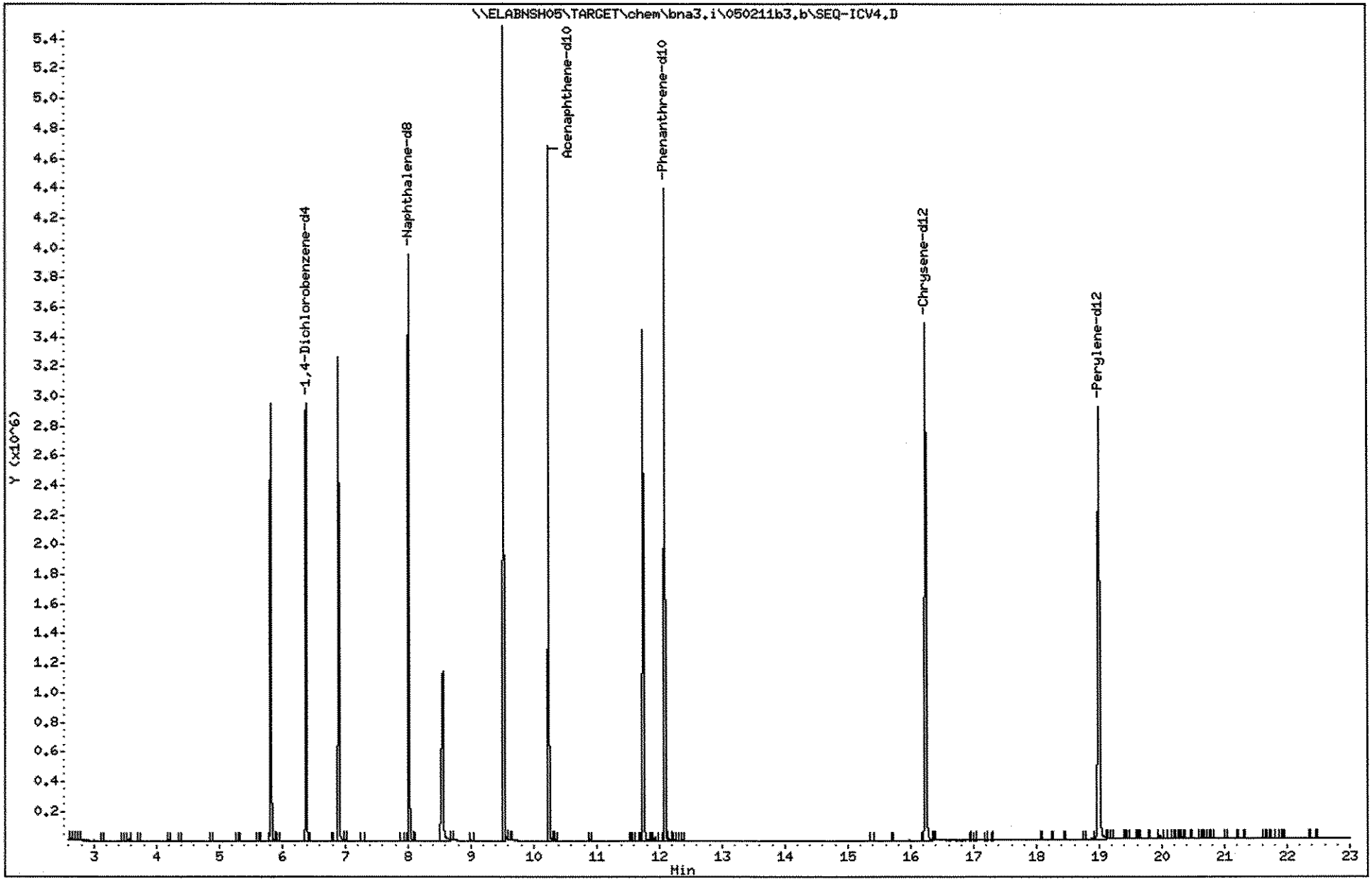
GLQ
5/6/11

Data File: \\ELABNSH05\TARGET\chem\bna3.i\050211b3.b\SEQ-ICV4.D
Date : 02-MAY-2011 14:16
Client ID: SEQ-ICV4
Sample Info: ICV50PPM;;;;;;

Instrument: bna3.i

Operator: MEC
Column diameter: 0.25

Column phase: fused silica



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Sequence Name: C:\HPCHEM\1\SEQUENCE\092811B3.S
Comment: epa8270c
Operator: GLQ
Data Path: C:\HPCHEM\1\DATA\092811b3\
Pre-Seq Cmd:
Post-Seq Cmd:

7799
GLQ
9/29/11
Is
11H0530 10µL

Method Sections To Run
(X) Full Method
( ) Reprocessing Only

On A Barcode Mismatch
(X) Inject Anyway
( ) Don't Inject

	Line	Type	Vial	DataFile	Method	Sample Name
	1	Sample	2	PRIME1	IXBN3	;;;;;;
	2	Sample	1	PRIME2	DFTPPBN3	;;;;;;
13:103	3	DFTPP	1	SEQ-TUN1	DFTPPBN3	DF0928B1;;;;;;11H0721
	4	DailyCal	2	SEQ-CCV1	IXBN3	CCV50PPM;;;;;;11I0719
	5	Sample	3	BLANK	IXBN3	BLANK;;;;;;
	6	Blank	4	I26926B1	IXBN3	1I26926-BLK1;;1000;1000;UG/L;
	7	Spike	5	I26926L1	IXBN3	1I26926-BS1;;1000;1000;UG/L;;
	8	Sample	6	0907412R	IXBN3	11090874-12RE1;;1000;1000;UG/
	9	Blank	7	I07020B1	IXBN3	1I07020-BLK1;;15;1000;UG/L;;12
	10	Spike	8	I07020L1	IXBN3	1I07020-BS1;;15;1000;UG/L;;12-
	11	Spike	9	I07020L2	IXBN3	1I07020-BS2;;15;1000;UG/L;;12-
	12	Spike	10	I07020L3	IXBN3	1I07020-BS3;;15;1000;UG/L;;12-
	13	Spike	11	I07020L4	IXBN3	1I07020-BS4;;15;1000;UG/L;;12-
	14	Sample	12	0908102	IXBN3	1109081-02;;1000;1000;UG/L;;1
	15	Sample	13	0908103	IXBN3	1109081-03;;1000;1000;UG/L;;1
	16	Sample	14	0908104	IXBN3	1109081-04;;1000;1000;UG/L;;1
	17	Sample	15	0908105	IXBN3	1109081-05;;1000;1000;UG/L;;1
	18	Sample	16	0908106	IXBN3	1109081-06;;1000;1000;UG/L;;1
	19	Spike	17	0908104M	IXBN3	1I15005-MS1;;1000;1000;UG/L;;
00:32	20	Spike	18	0908104S	IXBN3	1I15005-MSD1;;1000;1000;UG/L;
	21	DFTPP	1	SEQ-TUN2	DFTPPBN3	DF0928B1;;;;;;11H0721
	22	DailyCal	2	SEQ-CCV2	IXBN3	CCV50PPM;;;;;;11I0719
	23	Sample	3	BLANK2	IXBN3	BLANK;;;;;;
	24	Blank	19	I15003B1	IXBN3	1I15003-BLK1;;1000;1000;UG/L;
	25	Spike	20	I15003L1	IXBN3	1I15003-BS1;;1000;1000;UG/L;;
	26	Spike	21	I15003L2	IXBN3	1I15003-BSD1;;1000;1000;UG/L;
	27	Sample	22	0909802	IXBN3	1109098-02;;1000;1000;UG/L;;1
	28	Sample	23	0907701	IXBN3	1109077-01;;1000;1000;UG/L;;1
	29	Sample	24	0907704	IXBN3	1109077-04;;1000;1000;UG/L;;1
	30	Sample	25	0907706	IXBN3	1109077-06;;1000;1000;UG/L;;1
	31	Sample	26	0907708	IXBN3	1109077-08;;1000;1000;UG/L;;1
	32	Sample	27	0907710	IXBN3	1109077-10;;1000;1000;UG/L;;1
	33	Sample	28	0907712	IXBN3	1109077-12;;1000;1000;UG/L;;1
	34	Sample	29	0907714	IXBN3	1109077-14;;1000;1000;UG/L;;1
	35	Spike	30	0920102M	IXBN3	1I26926-MS1;;1000;1000;UG/L;;
	36	Spike	31	0920102S	IXBN3	1I26926-MSD1;;1000;1000;UG/L;
	37	Sample	32	0907716	IXBN3	1109077-16;;1000;1000;UG/L;;1
	38	Sample	33	0907718	IXBN3	1109077-18;;1000;1000;UG/L;;1

Last Modified: Thu Sep 29 11:05:48 2011

Data File: \\ELABNSH05\TARGET\chem\bna3.i\092811b3.b\SEQ-TUN1.D

Date : 28-SEP-2011 13:10

Client ID: 50ppm DFTPP

Instrument: bna3.i

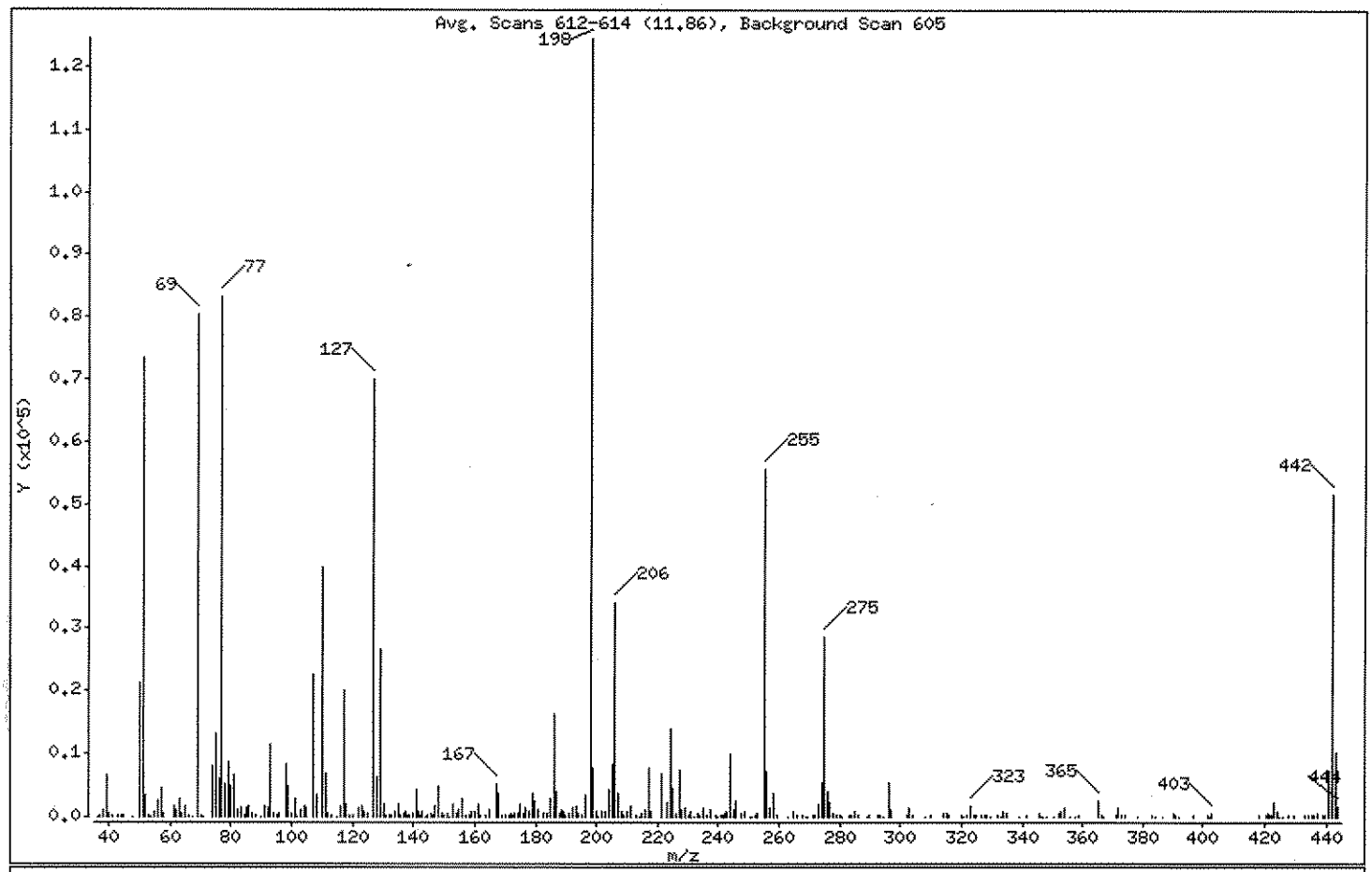
Sample Info: DF0928B1;;;;;;11H0721

Operator: GLQ

Column phase: DB5-MS

Column diameter: 0.25

1 dftpp



m/e	ION ABUNDANCE CRITERIA	% RELATIVE ABUNDANCE
198	Base Peak, 100% relative abundance	100.00
51	30.00 - 60.00% of mass 198	58.93
68	Less than 2.00% of mass 69	0.00 (0.00)
69	Mass 69 relative abundance	64.56
70	Less than 2.00% of mass 69	0.33 (0.51)
127	40.00 - 60.00% of mass 198	56.13
197	Less than 1.00% of mass 198	0.00
199	5.00 - 9.00% of mass 198	6.13
275	10.00 - 30.00% of mass 198	23.00
365	Greater than 1.00% of mass 198	2.14
441	Present, but less than mass 443	5.94
442	Greater than 40.00% of mass 198	41.45
443	17.00 - 23.00% of mass 442	8.41 (20.28)

GLQ 9/28/11

MG 9/30/11

Data File: \\ELABNSH05\TARGET\chem\bna3.i\092811b3.b\SEQ-TUN1.D

Date : 28-SEP-2011 13:10

Client ID: 50ppm DFTPP

Instrument: bna3.i

Sample Info: DF0928B1;;;;;;11H0721

Operator: GLQ

Column phase: DB5-MS

Column diameter: 0.25

Data File: SEQ-TUN1.D
Spectrum: Avg. Scans 612-614 (11.86), Background Scan 605
Location of Maximum: 198.00
Number of points: 313

m/z	Y	m/z	Y	m/z	Y	m/z	Y
36.10	87	130.00	1879	207.10	3816	303.10	1312
36.80	315	130.90	347	208.00	947	304.10	375
38.00	1287	132.20	348	209.00	418	308.30	107
39.10	6521	132.80	211	210.10	996	309.80	195
40.10	431	133.80	759	211.10	1696	314.00	450
41.10	423	135.10	2059	212.90	148	315.10	560
42.80	191	135.90	323	213.90	80	316.00	335
43.80	283	136.80	543	215.00	643	320.10	386
44.10	314	137.20	910	216.20	1057	320.80	72
44.90	185	137.90	311	217.00	7852	321.90	280
47.50	54	138.90	158	217.90	977	323.00	1583
50.00	21240	140.10	565	221.10	6797	324.20	333
51.10	73392	141.00	4406	223.00	2313	325.00	261
52.00	3530	141.70	843	224.10	13950	326.90	325
53.10	415	142.40	346	225.10	4470	327.70	311
53.70	110	143.00	861	226.20	673	328.10	204
55.00	836	144.00	67	227.00	7527	329.60	99
56.00	2689	144.80	412	228.10	1072	331.80	208
57.00	4520	146.00	455	229.00	1485	333.10	142
58.00	554	146.30	428	230.00	216	334.00	889
61.00	1668	146.90	1726	231.10	759	334.90	469
62.10	1199	148.00	4900	232.00	131	338.90	94
63.00	2880	149.10	582	233.40	630	339.40	113
63.90	645	149.80	163	234.00	345	341.20	386
65.10	1591	151.10	550	235.00	1567	345.90	664
66.20	216	151.90	136	236.00	204	346.50	134
67.00	122	153.00	1960	237.10	1031	347.00	62
69.00	80400	153.80	656	239.10	267	348.10	116
70.00	413	154.90	1049	239.90	130	350.40	128
70.90	79	156.10	2808	240.70	278	352.10	598
74.00	8124	157.10	238	241.10	307	352.90	955
75.00	13157	158.20	344	241.70	405	354.00	1545
76.20	6140	159.10	897	242.20	569	355.90	56
77.00	83088	160.00	1002	242.90	743	357.80	64
78.10	5245	161.10	1949	244.10	10058	358.90	191

Data File: \\ELABNSH05\TARGET\chem\bna3.i\092811b3.b\SEQ-TUN1.D

Date : 28-SEP-2011 13:10

Client ID: 50ppm DFTPP

Instrument: bna3.i

Sample Info: DF0928B1;;;;;;11H0721

Operator: GLQ

Column phase: DB5-MS

Column diameter: 0.25

Data File: SEQ-TUN1.D
Spectrum: Avg. Scans 612-614 (11.86), Background Scan 605
Location of Maximum: 198.00
Number of points: 313

m/z	Y	m/z	Y	m/z	Y	m/z	Y
79.00	8600	162.10	289	245.10	1287	365.00	2662
80.00	4743	163.40	206	245.90	2630	366.20	354
81.00	6687	164.90	1165	247.20	433	366.90	66
81.90	1180	167.00	5157	248.50	890	371.10	153
83.00	1479	168.00	3618	250.30	129	371.90	1343
84.20	251	169.20	164	250.90	59	373.20	171
85.00	1343	170.20	333	252.00	263	374.20	413
85.90	1852	171.20	390	252.60	527	378.10	88
87.00	597	172.00	649	253.00	181	383.10	189
88.10	265	172.60	315	255.00	55752	384.20	88
90.10	106	173.10	535	256.00	7296	386.60	98
91.10	1662	174.10	502	257.10	1310	390.00	545
92.00	1496	175.20	1994	258.00	3728	390.90	221
93.00	11597	176.00	703	259.20	390	392.10	129
93.90	613	176.80	1398	263.00	108	396.90	160
95.20	338	178.10	735	265.00	980	401.70	265
96.00	450	179.00	3830	265.70	336	402.40	66
98.00	8254	179.90	2474	265.90	295	403.00	570
99.00	4861	181.10	1065	267.60	157	418.10	168
100.10	506	182.70	461	269.10	102	420.70	349
101.00	2965	183.80	433	269.70	75	421.10	467
101.90	126	185.20	2730	271.20	188	421.80	268
103.20	1195	186.10	16416	271.90	211	422.20	327
104.10	1642	187.00	4036	273.00	1931	423.00	2415
105.00	1558	187.90	556	274.00	5420	424.00	808
107.00	22624	188.70	1147	275.00	28640	425.00	65
108.10	3534	189.00	808	276.00	3906	426.00	139
110.00	39944	190.00	305	276.90	2157	427.50	169
111.00	6868	191.10	455	277.90	526	429.80	216
112.00	434	192.00	1319	279.20	243	432.90	156
113.00	284	193.20	1862	280.40	193	434.40	230
115.10	86	194.10	542	281.00	60	435.20	308
116.00	1645	195.00	350	283.10	354	436.10	242
117.00	20000	196.10	3409	283.90	190	437.20	512
117.90	2076	198.00	124536	285.00	842	439.10	425

Data File: \\ELABNSH05\TARGET\chem\bna3.i\092811b3.b\SEQ-TUN1.D

Date : 28-SEP-2011 13:10

Client ID: 50ppm DFTPP

Instrument: bna3.i

Sample Info: DF0928B1;;;;;;11H0721

Operator: GLQ

Column phase: DB5-MS

Column diameter: 0.25

Data File: SEQ-TUN1.D
Spectrum: Avg. Scans 612-614 (11.86), Background Scan 605
Location of Maximum: 198.00
Number of points: 313

m/z	Y	m/z	Y	m/z	Y	m/z	Y
119.20	258	199.00	7637	286.20	341	439.50	406
119.90	370	200.00	969	288.90	88	439.70	409
121.90	1311	200.60	76	290.00	156	441.00	7394
122.90	1749	201.70	982	292.80	165	442.00	51616
124.00	751	202.60	277	293.10	175	443.10	10470
124.90	595	203.10	857	294.20	137	444.00	1720
127.00	69896	204.10	4320	296.00	5587		
128.00	6420	205.00	8256	297.10	1113		
129.00	26720	206.10	34184	302.10	298		

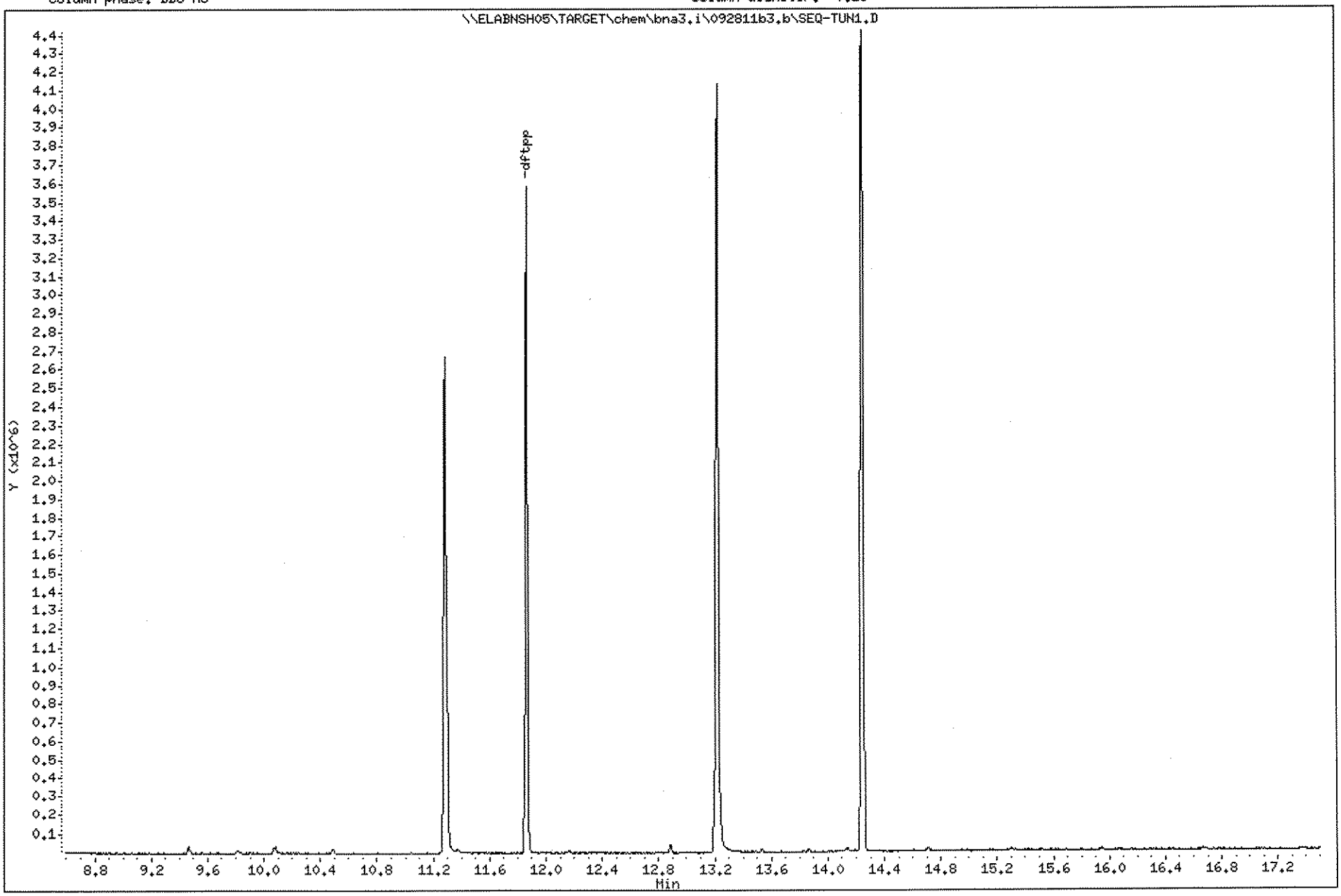
Data File: \\ELABNSH05\TARGET\chem\bna3.i\092811b3.b\SEQ-TUN1.D
Date : 28-SEP-2011 13:10
Client ID: 50ppm DFTPP
Sample Info: DF0928B1;;;;;;11H0721

Instrument: bna3.i

Operator: GLQ

Column phase: DB5-MS

Column diameter: 0.25



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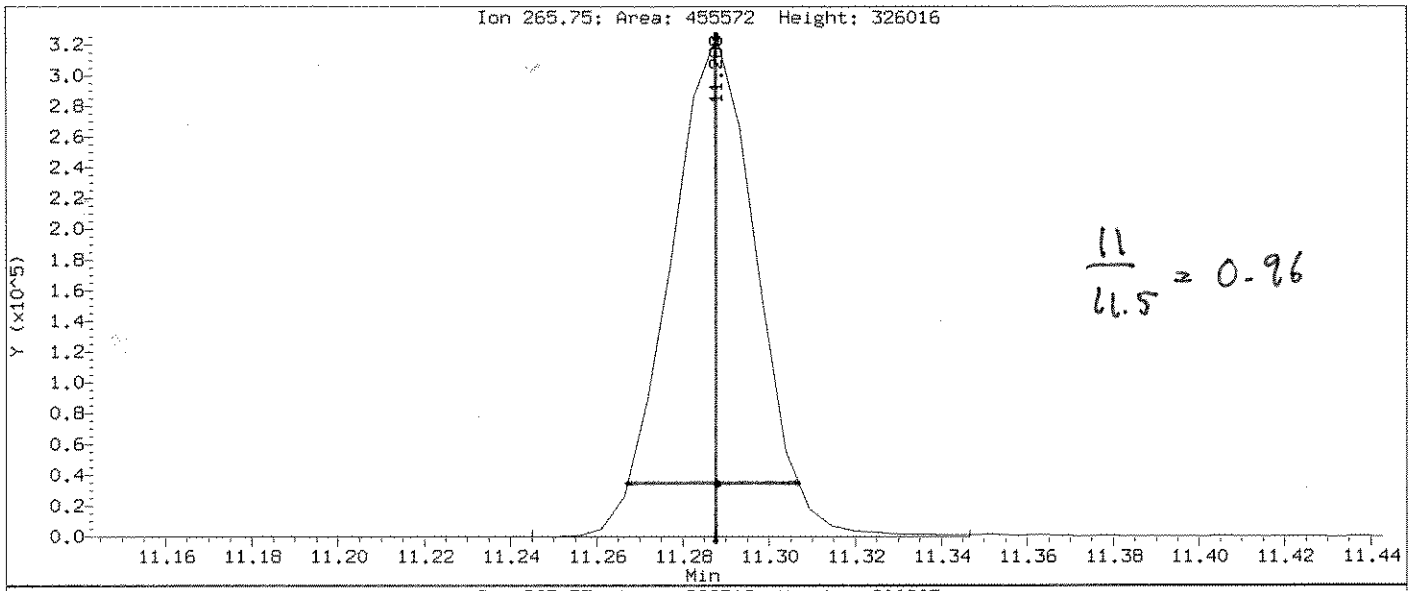
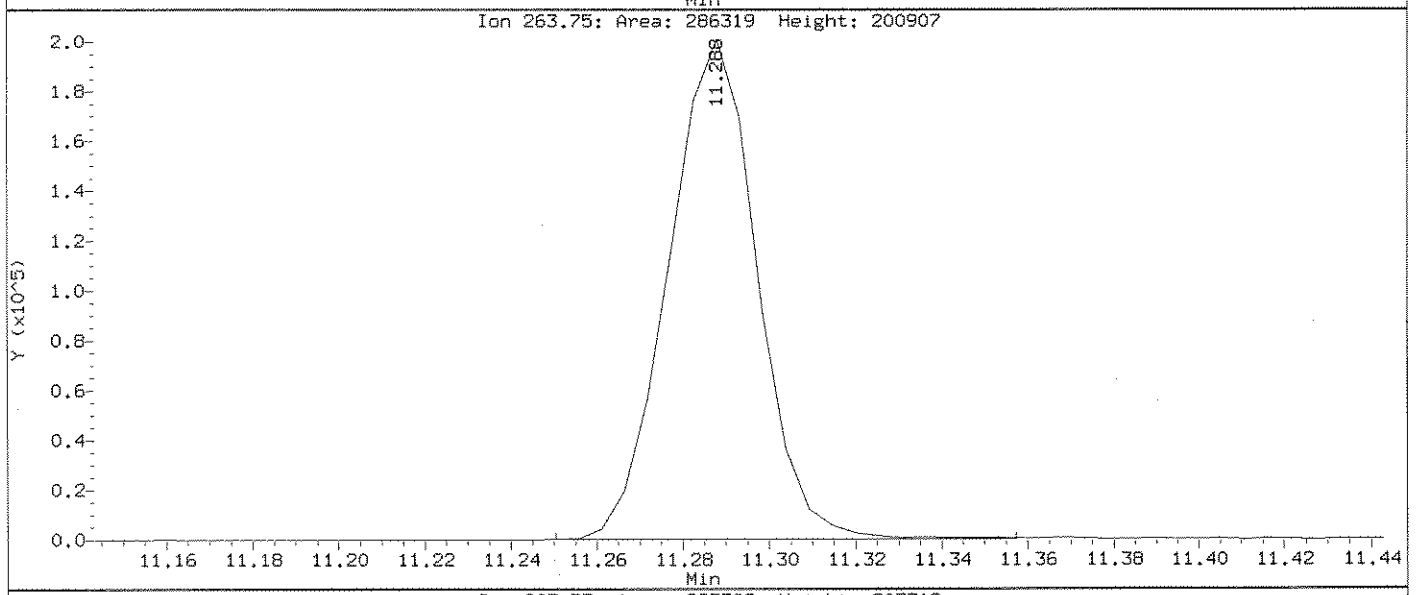
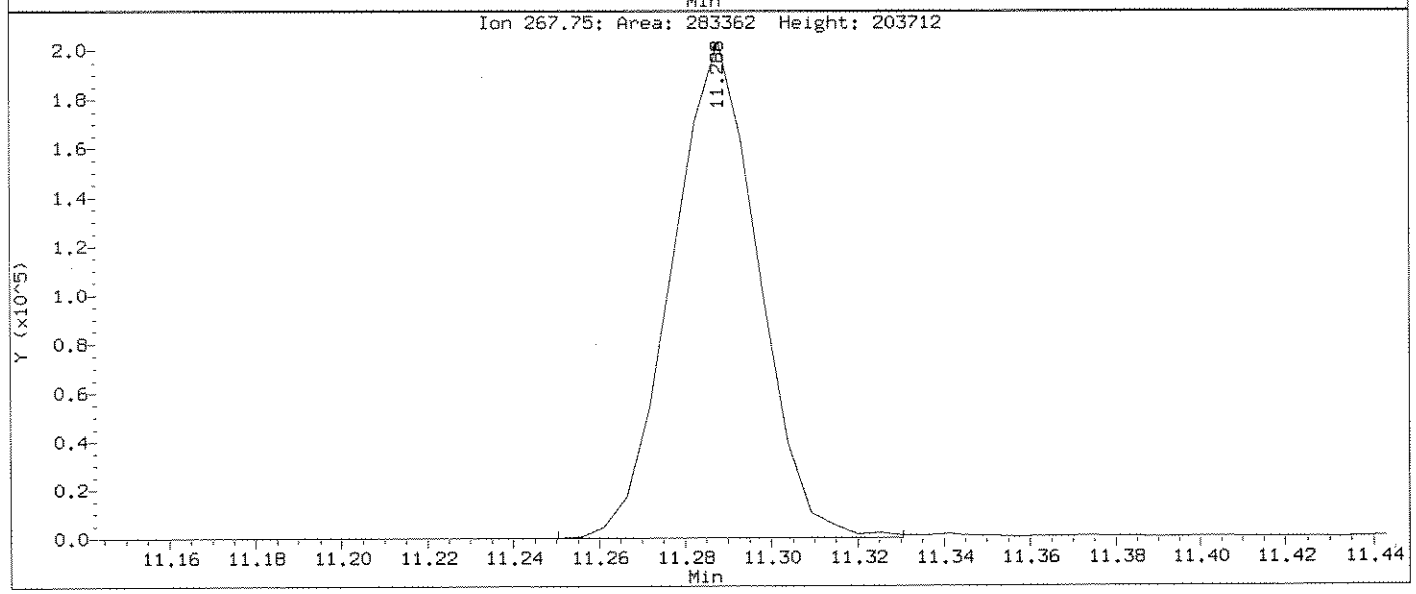
1109191

Data File: \\ELABNSHO5\TARGET\chem\bna3.i\092811b3.b\SEQ-TUN1ex.D
Injection Date: 28-SEP-2011 13:10
Instrument: bna3.i
Client Sample ID: 50ppm DFTPP

Compound: Pentachlorophenol
CAS Number: 87-86-5

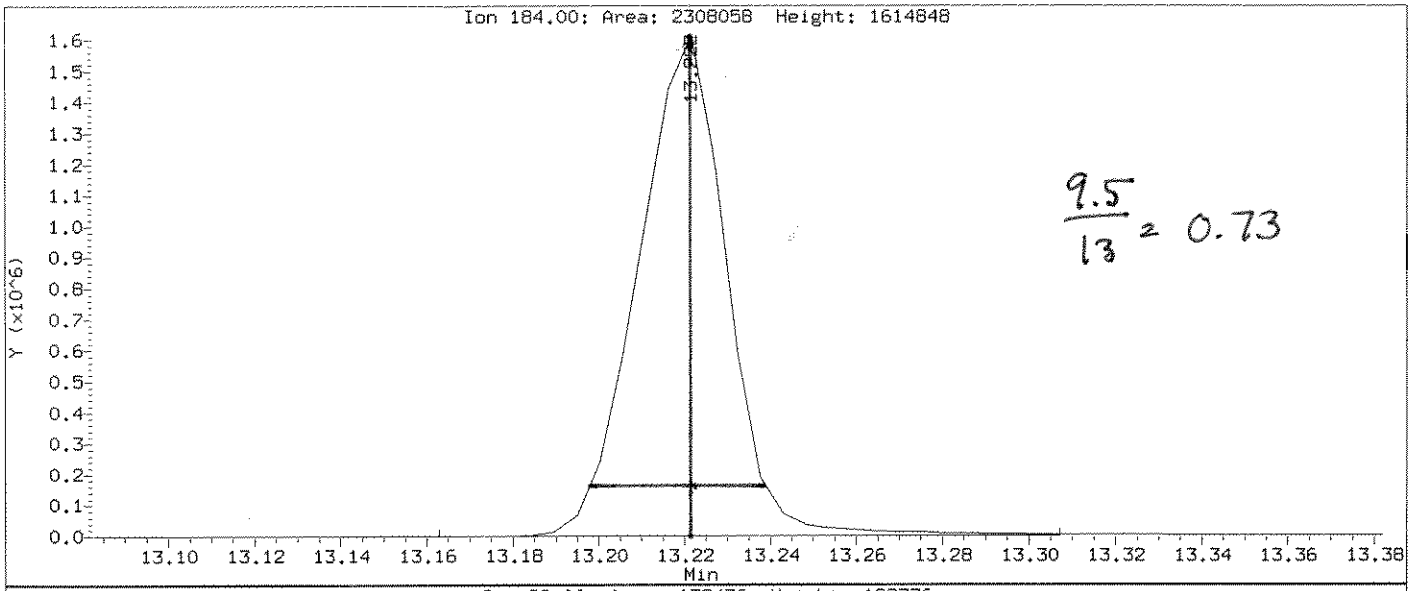


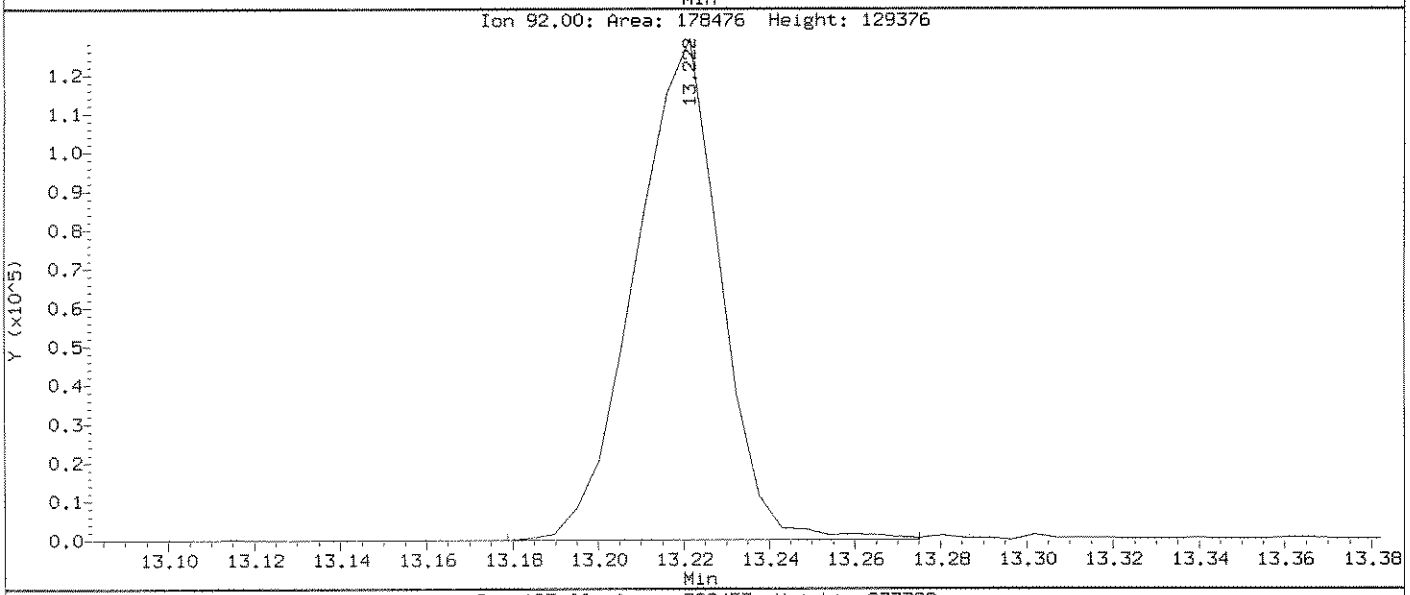


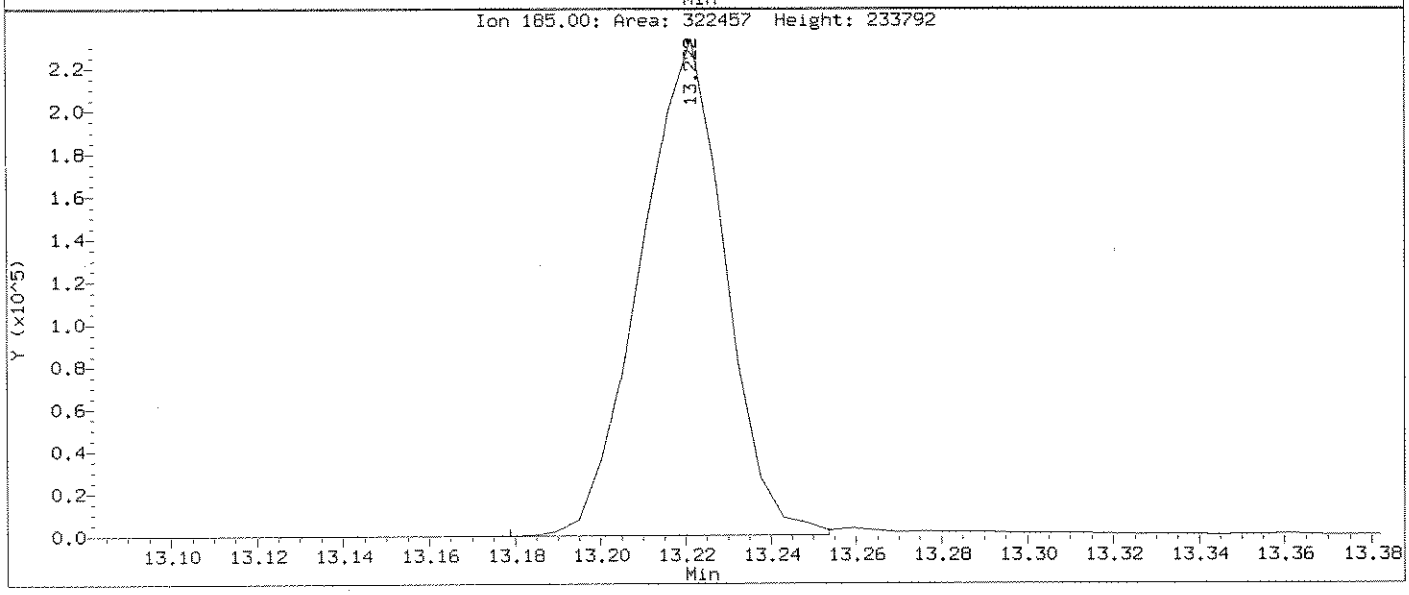


Data File: \\ELABNSH05\TARGET\chem\bna3.i\092811b3.b\SEQ-TUN1ex.D
Injection Date: 28-SEP-2011 13:10
Instrument: bna3.i
Client Sample ID: 50ppm DFTPP

Compound: Benzidine
CAS Number: 92-87-5







Data File: \\ELABNSH05\TARGET\chem\bna3.i\092811b3.b\SEQ-TUN1ex.D
Report Date: 28-Sep-2011 14:57

Laboratory Name

Data file : \\ELABNSH05\TARGET\chem\bna3.i\092811b3.b\SEQ-TUN1ex.D
Lab Smp Id: SEQ-TUN1 Client Smp ID: 50ppm DFTPP
Inj Date : 28-SEP-2011 13:10 MS Autotune Date: 28-JUL-1998 06:19
Operator : GLQ Inst ID: bna3.i
Smp Info : DF0928B1;;;;;;11H0721
Misc Info : ;;;;;;;all.sub;
Comment :
Method : \\ELABNSH05\TARGET\chem\bna3.i\092811b3.b\dftppbn3ex.m
Meth Date : 26-Sep-2011 20:34 gquick Quant Type: ESTD
Cal Date : Cal File:
Als bottle: 1 QC Sample: DFTPP
Dil Factor: 1.00000
Integrator: HP RTE Compound Sublist: dftppex.sub
Target Version: 4.04

Compounds	QUANT SIG MASS	RT	EXP RT	DLT RT	RESPONSE	CONCENTRATIONS ON-COLUMN (ng/ul)	FINAL (ng/ul)
1 Pentachlorophenol	266	11.287	11.294	-0.007	455572		
2 Benzidine	184	13.221	13.233	-0.012	2308058		
4 4,4'-DDD	235	13.868	13.885	-0.017	1909		
5 4,4'-DDT	235	14.247	14.264	-0.017	1033057		

DDT % BREAKDOWN = $\frac{1909}{1034966}$ X 100% = 0.18%

Data File: \\ELABNSH05\TARGET\chem\bna3.i\092811b3.b\SEQ-CCV1.D
Report Date: 28-Sep-2011 14:16

Laboratory Name

Data file : \\ELABNSH05\TARGET\chem\bna3.i\092811b3.b\SEQ-CCV1.D
Lab Smp Id: SEQ-CCV1 Client Smp ID: CCV50PPM
Inj Date : 28-SEP-2011 13:39 MS Autotune Date: 28-JUL-1998 06:19
Operator : GLQ Inst ID: bna3.i
Smp Info : CCV50PPM;;;;;;11I0719
Misc Info : ;2;CCV;;;;ppbnax.sub;
Comment :
Method : \\ELABNSH05\TARGET\chem\bna3.i\092811b3.b\IXBN3.m
Meth Date : 28-Sep-2011 14:14 gquick Quant Type: ISTD
Cal Date : 30-APR-2011 01:58 Cal File: SEQ-CALG.D
Als bottle: 2
Dil Factor: 1.00000
Integrator: HP RTE Compound Sublist: ppbnax.sub
Target Version: 4.04
Processing Host: TARGET17_VM

MA 9/30/11

GLQ 9/28/11

Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS ON-COLUMN (ng/ul)	FINAL (ng/ul)
* 1 1,4-Dichlorobenzene-d4	152	6.857	6.857	(1.000)	361251	40.0000	
$ 2 2-Fluorophenol	112	5.324	5.324	(0.776)	1178939	114.291	114.3(AR)
$ 3 Phenol-d6	99	6.366	6.366	(0.928)	1637712	115.283	115.3(AR)
4 Pyridine	79	4.159	4.159	(0.607)	705030	52.6470	52.65
5 1,4-Dioxane	88	3.871	3.871	(0.565)	249112	51.0250	51.02
6 N-Nitroso-di-methylamine	42	4.101	4.101	(0.598)	346300	56.0083	56.01
7 Aniline	93	6.457	6.457	(0.942)	1017675	53.6742	53.67
10 Phenol	94	6.382	6.382	(0.931)	832318	54.6067	54.61
11 bis(2-Chloroethyl)ether	93	6.521	6.521	(0.951)	627472	53.5332	53.53
12 2-Chlorophenol	128	6.595	6.595	(0.962)	661002	55.6579	55.66
13 1,3-Dichlorobenzene	146	6.788	6.788	(0.990)	673292	52.2158	52.22
14 1,4-Dichlorobenzene	146	6.879	6.879	(1.003)	689379	52.8268	52.83
15 Benzyl alcohol	108	7.018	7.018	(1.023)	439416	56.1339	56.13
16 1,2-Dichlorobenzene	146	7.060	7.060	(1.030)	632945	51.7695	51.77
17 2-Methylphenol	108	7.130	7.130	(1.040)	624142	57.1793	57.18
18 2,2'-Oxybis-1-chloropropane	45	7.183	7.183	(1.048)	675222	38.3978	38.40
19 3-Methylphenol	108	7.333	7.333	(1.069)	655758	57.2447	57.24
20 4-Methylphenol	108	7.333	7.333	(1.069)	655758	57.2447	57.24
196 3-Methylphenol/4-Methylphenol	108	7.333	7.333	(1.069)	654364	57.1230	57.12
21 N-Nitroso-di-n-propylamine	70	7.365	7.365	(1.074)	506667	54.2585	54.26
22 Hexachloroethane	117	7.488	7.488	(1.092)	259051	52.4898	52.49
32 Benzaldehyde	106	6.334	6.334	(0.924)	336835	36.9234	36.92
* 33 Naphthalene-d8	136	8.455	8.455	(1.000)	1401835	40.0000	
$ 34 Nitrobenzene-d5	82	7.541	7.541	(0.892)	728713	51.0199	51.02(R)
35 Nitrobenzene	77	7.568	7.568	(0.895)	711791	49.4416	49.44
39 Isophorone	82	7.883	7.883	(0.932)	887176	34.0125	34.01

Data File: \\ELABNSH05\TARGET\chem\bna3.i\092811b3.b\SEQ-CCV1.D
Report Date: 28-Sep-2011 14:16

	Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS ON-COLUMN (ng/ul)	FINAL (ng/ul)
	40 2-Nitrophenol	139	7.963	7.963	(0.942)	339305	49.8686	49.87
	42 2,4-Dimethylphenol	107	8.006	8.006	(0.947)	674490	52.9227	52.92
	43 Benzoic acid	105	8.161	8.161	(0.965)	511804	54.5042	54.50
	44 bis(2-Chloroethoxy)methane	93	8.134	8.134	(0.962)	712992	47.6467	47.65
	47 2,4-Dichlorophenol	162	8.262	8.262	(0.977)	501270	46.9463	46.95
	62 2,6-Dichlorophenol	162	8.551	8.551	(1.011)	474046	45.3181	45.32
	50 1,2,4-Trichlorobenzene	180	8.374	8.374	(0.991)	570484	47.5732	47.57
	51 Naphthalene	128	8.481	8.481	(1.003)	1805551	51.7318	51.73
	52 4-Chloroaniline	127	8.545	8.545	(1.011)	727756	49.1461	49.15
	53 Hexachlorobutadiene	225	8.625	8.625	(1.020)	319604	48.8052	48.80
	54 4-Chloro-3-methylphenol	107	9.154	9.154	(1.083)	581128	53.2577	53.26
	55 2-Methylnaphthalene	141	9.357	9.357	(1.107)	1019406	48.6890	48.69
	56 1-Methylnaphthalene	141	9.486	9.486	(1.122)	994280	48.3097	48.31
	57 Acetophenone	105	7.354	7.354	(1.072)	885246	54.3956	54.40
	67 1,2,4,5-Tetrachlorobenzene	216	9.566	9.566	(1.131)	517202	44.0161	44.02
	68 Caprolactam	113	9.074	9.074	(1.073)	165443	41.8351	41.84
*	69 Acenaphthene-d10	164	10.677	10.677	(1.000)	778032	40.0000	
	70 Hexachlorocyclopentadiene	237	9.550	9.550	(0.894)	362739	49.7341	49.73
	71 2,4,6-Trichlorophenol	196	9.705	9.705	(0.909)	358898	48.3021	48.30
	72 2,4,5-Trichlorophenol	196	9.753	9.753	(0.913)	393552	48.8413	48.84
	73 2-Chloronaphthalene	162	9.977	9.977	(0.934)	1143029	54.0237	54.02
$	74 2-Fluorobiphenyl	172	9.822	9.822	(0.920)	1265732	51.4246	51.42(R)
	75 2-Nitroaniline	65	10.105	10.105	(0.946)	452730	62.9031	62.90
	76 Dimethylphthalate	163	10.346	10.346	(0.969)	1218889	50.3562	50.36
	77 Acenaphthylene	152	10.501	10.501	(0.983)	1706134	50.8433	50.84
	78 2,6-Dinitrotoluene	165	10.415	10.415	(0.975)	284645	48.9130	48.91
	79 3-Nitroaniline	138	10.634	10.634	(0.996)	322394	51.3024	51.30
	80 Acenaphthene	153	10.720	10.720	(1.004)	1100520	50.9563	50.96
	81 2,4-Dinitrophenol	184	10.762	10.762	(1.008)	219203	60.7724	60.77
	83 4-Nitrophenol	65	10.821	10.821	(1.014)	293585	55.4574	55.46
	84 Dibenzofuran	168	10.939	10.939	(1.025)	1508735	50.5283	50.53
	85 2,4-Dinitrotoluene	165	10.923	10.923	(1.023)	390262	51.0557	51.06
	86 Diethylphthalate	149	11.222	11.222	(1.051)	1188679	51.1513	51.15
	87 4-Chlorophenyl-phenylether	204	11.361	11.361	(1.064)	651163	53.7058	53.70
	88 Fluorene	166	11.366	11.366	(1.065)	1332031	51.2008	51.20
	89 4-Nitroaniline	138	11.409	11.409	(1.069)	311934	48.9998	49.00
	96 2,3,4,6-Tetrachlorophenol	232	11.088	11.088	(1.039)	335496	51.6310	51.63
	100 1,1'-Biphenyl	154	9.950	9.950	(0.932)	1390219	49.4814	49.48
*	102 Phenanthrene-d10	188	12.563	12.563	(1.000)	1377467	40.0000	
	103 1,2-Diphenylhydrazine	77	11.564	11.564	(0.920)	1409942	48.1281	48.13
	104 Carbazole	167	12.878	12.878	(1.025)	1770731	49.2348	49.23
	105 4,6-Dinitro-2-methylphenol	198	11.435	11.435	(0.910)	278788	55.6730	55.67
	106 N-Nitrosodiphenylamine	169	11.516	11.516	(0.917)	1132200	48.8606	48.86
$	107 2,4,6-Tribromophenol	330	11.671	11.671	(0.929)	356882	94.3253	94.32(R)
	108 4-Bromophenyl-phenylether	248	11.975	11.975	(0.953)	371053	47.1597	47.16
	109 Hexachlorobenzene	284	12.050	12.050	(0.959)	376548	44.7472	44.75
	110 Pentachlorophenol	266	12.301	12.301	(0.979)	297035	53.1426	53.14

Data File: \\ELABNSH05\TARGET\chem\bna3.i\092811b3.b\SEQ-CCV1.D
Report Date: 28-Sep-2011 14:16

Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS ON-COLUMN (ng/ul)	FINAL (ng/ul)
111 Phenanthrene	178	12.600	12.600	(1.003)	1847928	49.8776	49.88
112 Anthracene	178	12.669	12.669	(1.009)	1905272	50.6345	50.63
115 Di-n-butylphthalate	149	13.364	13.364	(1.064)	2000941	49.1577	49.16
116 Fluoranthene	202	14.336	14.336	(1.141)	2052991	48.3179	48.32
129 Atrazine	200	12.183	12.183	(0.970)	354830	43.9456	43.94
* 132 Chrysene-d12	240	16.949	16.949	(1.000)	1420546	40.0000	
133 Benzidine	184	14.561	14.561	(0.859)	1453897	63.8380	63.84
134 Pyrene	202	14.710	14.710	(0.868)	2085081	50.4501	50.45
$ 135 Terphenyl-d14	244	14.972	14.972	(0.883)	1376445	51.9394	51.94(R)
136 Butylbenzylphthalate	149	15.875	15.875	(0.937)	913276	50.1308	50.13
137 3,3'-Dichlorobenzidine	252	16.890	16.890	(0.997)	827335	57.2780	57.28
138 Benzo(a)anthracene	228	16.927	16.927	(0.999)	2065538	51.9628	51.96
139 Chrysene	228	17.002	17.002	(1.003)	1951143	52.4311	52.43
140 Bis(2-ethylhexyl)phthalate	149	17.034	17.034	(1.005)	1244714	51.5950	51.60
* 154 Perylene-d12	264	19.844	19.844	(1.000)	1400031	40.0000	
155 Di-n-octylphthalate	149	18.370	18.370	(0.926)	2199293	52.1741	52.17
156 Benzo(b)fluoranthene	252	19.075	19.075	(0.961)	2108159	55.0717	55.07
157 Benzo(k)fluoranthene	252	19.123	19.123	(0.964)	1961841	50.6002	50.60
158 Benzo(a)pyrene	252	19.726	19.726	(0.994)	1885401	51.5053	51.50
159 Indeno(1,2,3-cd)pyrene	276	22.488	22.488	(1.133)	1748396	48.1240	48.12
160 Dibenz(a,h)anthracene	278	22.558	22.558	(1.137)	1631593	46.4081	46.41
161 Benzo(g,h,i)perylene	276	23.263	23.263	(1.172)	1693203	46.8245	46.82

QC Flag Legend

A - Target compound detected but, quantitated amount exceeded maximum amount.
R - Spike/Surrogate failed recovery limits.

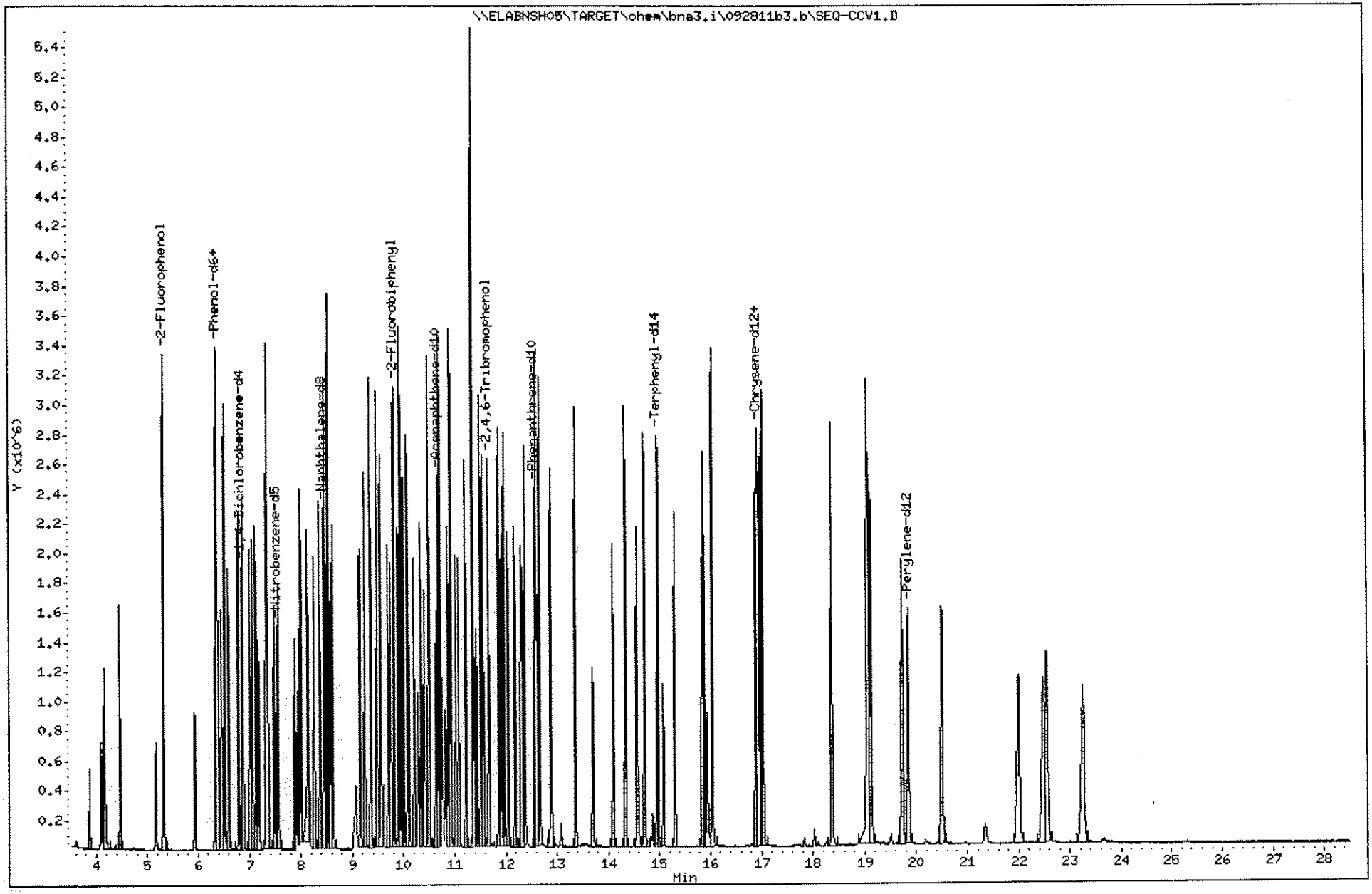
Data File: \\ELABNSH05\TARGET\chem\bna3.i\092811b3.b\SEQ-CCV1.D
Date : 28-SEP-2011 13:39
Client ID: CCV50PPM
Sample Info: CCV50PPM;;;;;;1110719

Instrument: bna3.i

Operator: GLQ

Column phase: fused silica

Column diameter: 0.25



689

1109191

Data File: \\ELABNSH05\TARGET\chem\bna3.i\092811b3.b\I26926B1.D
Report Date: 29-Sep-2011 11:04

Laboratory Name

Data file : \\ELABNSH05\TARGET\chem\bna3.i\092811b3.b\I26926B1.D
Lab Smp Id: 1I26926-BLK1 Client Smp ID: 1I26926-BLK1
Inj Date : 28-SEP-2011 15:02 MS Autotune Date: 28-JUL-1998 06:19
Operator : GLQ Inst ID: bna3.i
Smp Info : 1I26926-BLK1;;1000;1000;UG/L;;27-SEP-2011
Misc Info : ;3;BLANK;;;1I26926;ppbnax.sub;
Comment :
Method : \\ELABNSH05\TARGET\chem\bna3.i\092811b3.b\IXBN3.m
Meth Date : 29-Sep-2011 10:49 gquick Quant Type: ISTD
Cal Date : 30-APR-2011 01:58 Cal File: SEQ-CALG.D
Als bottle: 4 QC Sample: BLANK
Dil Factor: 1.00000
Integrator: HP RTE Compound Sublist: ppbnax.sub
Target Version: 4.04
Processing Host: TARGET17_VM

Concentration Formula: Amt * DF * Uf * Vt* Vi/(Amt * Vi)

Name	Value	Description
DF	1.000	Dilution Factor
Uf	0.000	ng unit correction factor
Vt	1000.000	Volume of final extract (uL)
Vi	0.500	Volume injected (uL)
Amt	1000.000	Volume of initial extraction

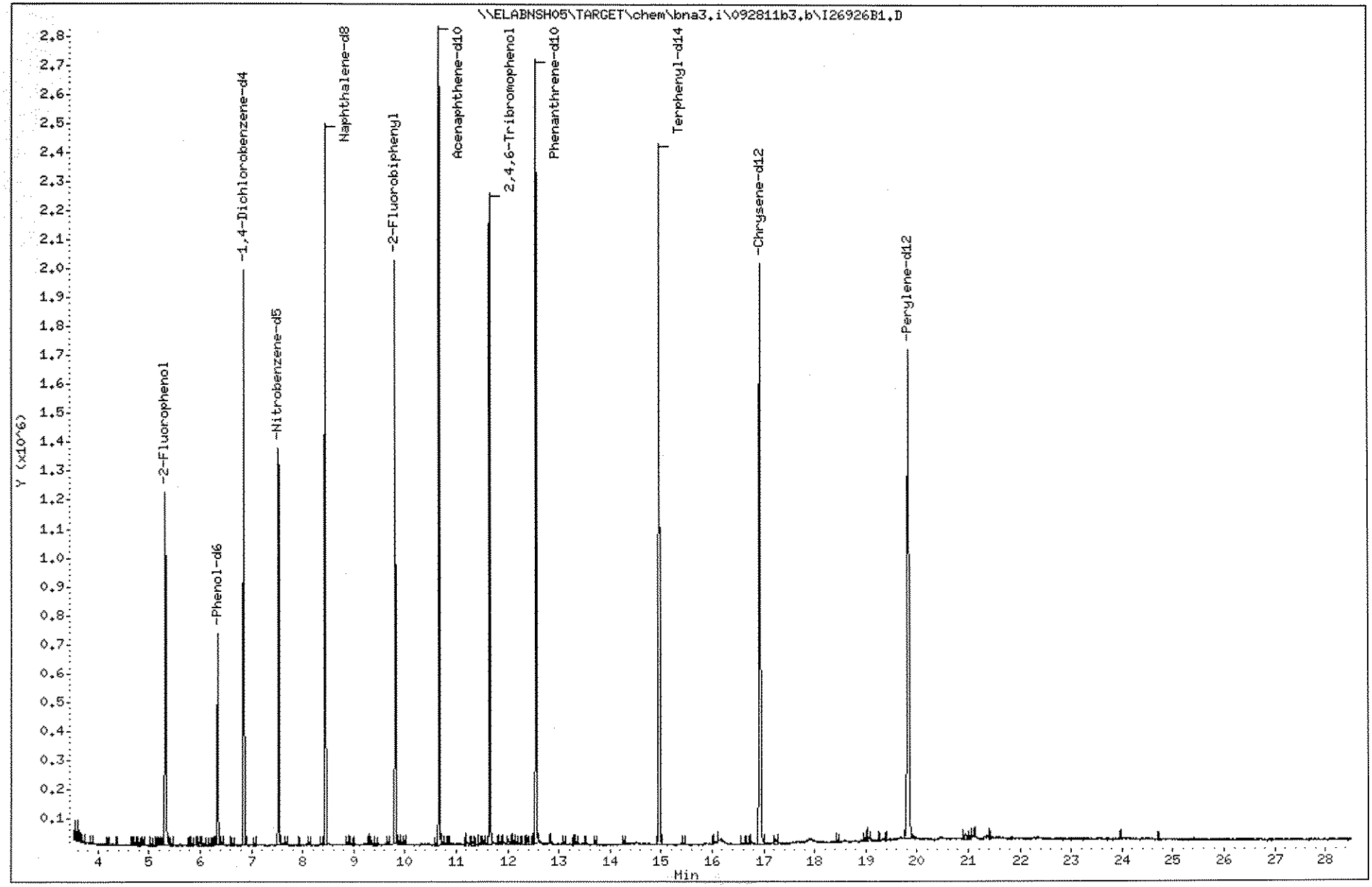
MG/30/11

GLQ 9/29/11

Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS ON-COLUMN (ng/ul)	FINAL (ug/L)
* 1 1,4-Dichlorobenzene-d4	152	6.852	6.857	(1.000)	400049	40.0000	
$ 2 2-Fluorophenol	112	5.319	5.324	(0.776)	432642	37.8743	37.87
$ 3 Phenol-d6	99	6.344	6.366	(0.926)	336377	21.3820	21.38
* 33 Naphthalene-d8	136	8.444	8.455	(1.000)	1536056	40.0000	
$ 34 Nitrobenzene-d5	82	7.530	7.541	(0.892)	629581	40.2276	40.23
* 69 Acenaphthene-d10	164	10.666	10.677	(1.000)	844556	40.0000	
$ 74 2-Fluorobiphenyl	172	9.811	9.822	(0.920)	796656	29.8173	29.82
* 102 Phenanthrene-d10	188	12.552	12.563	(1.000)	1418789	40.0000	
$ 107 2,4,6-Tribromophenol	330	11.654	11.671	(0.928)	305059	78.2800	78.28
* 132 Chrysene-d12	240	16.927	16.949	(1.000)	1467670	40.0000	
$ 135 Terphenyl-d14	244	14.961	14.972	(0.884)	1265241	46.2102	46.21
* 154 Perylene-d12	264	19.828	19.844	(1.000)	1478028	40.0000	

Data File: \\ELABNSH05\TARGET\chem\bna3.i\092811b3.b\I26926B1.D
Date : 28-SEP-2011 15:02
Client ID: 1I26926-BLK1
Sample Info: 1I26926-BLK1;;1000;1000;UG/L;;27-SEP-2011
Volume Injected (uL): 0.5
Column phase: fused silica

Instrument: bna3.i
Operator: GLQ
Column diameter: 0.25



691

1109191

Data File: \\ELABNSH05\TARGET\chem\bna3.i\092811b3.b\I26926L1.D
Report Date: 29-Sep-2011 11:29

Laboratory Name

Data file : \\ELABNSH05\TARGET\chem\bna3.i\092811b3.b\I26926L1.D
Lab Smp Id: 1I26926-BS1 Client Smp ID: 1I26926-BS1
Inj Date : 28-SEP-2011 15:43 MS Autotune Date: 28-JUL-1998 06:19
Operator : GLQ Inst ID: bna3.i
Smp Info : 1I26926-BS1;;1000;1000;UG/L;;27-SEP-2011
Misc Info : ;3;LCS;;;1I26926;ppbnax.sub;
Comment :
Method : \\ELABNSH05\TARGET\chem\bna3.i\092811b3.b\IXBN3.m
Meth Date : 29-Sep-2011 10:49 gquick Quant Type: ISTD
Cal Date : 30-APR-2011 01:58 Cal File: SEQ-CALG.D
Als bottle: 5 QC Sample: LCS
Dil Factor: 1.00000
Integrator: HP RTE Compound Sublist: ppbnax.sub
Target Version: 4.04
Processing Host: TARGET17_VM

Concentration Formula: Amt * DF * Uf * Vt* Vi/(Amt * Vi)

Name	Value	Description
DF	1.000	Dilution Factor
Uf	0.000	ng unit correction factor
Vt	1000.000	Volume of final extract (uL)
Vi	0.500	Volume injected (uL)
Amt	1000.000	Volume of initial extraction

MG 9/30/11

Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS ON-COLUMN (ng/ul)	FINAL (ug/L)
* 1 1,4-Dichlorobenzene-d4	152	6.852	6.857	(1.000)	334548	40.0000	
$ 2 2-Fluorophenol	112	5.319	5.324	(0.776)	429290	44.9388	44.94
$ 3 Phenol-d6	99	6.350	6.366	(0.927)	332787	25.2955	25.30
4 Pyridine	79	4.165	4.159	(0.608)	88693	7.15165	7.152(a)
5 1,4-Dioxane	88	3.877	3.871	(0.566)	83243	18.4114	18.41
6 N-Nitroso-di-methylamine	42	4.101	4.101	(0.599)	127880	22.3333	22.33
7 Aniline	93	6.446	6.457	(0.941)	493511	28.1063	28.11
10 Phenol	94	6.366	6.382	(0.929)	187605	13.2908	13.29
11 bis(2-Chloroethyl)ether	93	6.510	6.521	(0.950)	565645	52.1103	52.11
12 2-Chlorophenol	128	6.585	6.595	(0.961)	424123	38.5626	38.56
13 1,3-Dichlorobenzene	146	6.783	6.788	(0.990)	405816	33.9843	33.98
14 1,4-Dichlorobenzene	146	6.874	6.879	(1.003)	435657	36.0489	36.05
15 Benzyl alcohol	108	7.002	7.018	(1.022)	237618	32.7778	32.78
16 1,2-Dichlorobenzene	146	7.061	7.060	(1.030)	411729	36.3638	36.36

GLQ 9/29/11

Data File: \\ELABNSH05\TARGET\chem\bna3.i\092811b3.b\I26926L1.D
Report Date: 29-Sep-2011 11:29

		Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS ON-COLUMN (ng/ul)	FINAL (ug/L)
	17	2-Methylphenol	108	7.125	7.130	(1.040)	337785	33.4154	33.42
	18	2,2'-Oxybis-1-chloropropane	45	7.178	7.183	(1.048)	626372	38.4629	38.46
	19	3-Methylphenol	108	7.317	7.333	(1.068)	318965	30.0667	30.07
	20	4-Methylphenol	108	7.317	7.333	(1.068)	318965	30.0667	30.07
	196	3-Methylphenol/4-Methylphenol	108	7.317	7.333	(1.068)	319596	30.1262	30.13
	21	N-Nitroso-di-n-propylamine	70	7.349	7.365	(1.072)	492153	56.9109	56.91
	22	Hexachloroethane	117	7.483	7.488	(1.092)	141261	30.9074	30.91
	32	Benzaldehyde	106	6.329	6.334	(0.924)	450078	53.2749	53.27
*	33	Naphthalene-d8	136	8.450	8.455	(1.000)	1285364	40.0000	
$	34	Nitrobenzene-d5	82	7.536	7.541	(0.892)	560749	42.8176	42.82
	35	Nitrobenzene	77	7.563	7.568	(0.895)	639256	48.4268	48.43
	39	Isophorone	82	7.873	7.883	(0.932)	1095946	45.8236	45.82
	40	2-Nitrophenol	139	7.958	7.963	(0.942)	289163	46.3501	46.35
	42	2,4-Dimethylphenol	107	7.996	8.006	(0.946)	495603	42.4103	42.41
	43	Benzoic acid	105	8.225	8.161	(0.973)	3055	0.35485	0.3548(aM)
	44	bis(2-Chloroethoxy)methane	93	8.129	8.134	(0.962)	706860	51.5172	51.52
	47	2,4-Dichlorophenol	162	8.257	8.262	(0.977)	405554	41.4237	41.42
	62	2,6-Dichlorophenol	162	8.540	8.551	(1.011)	439615	45.8347	45.83
	50	1,2,4-Trichlorobenzene	180	8.369	8.374	(0.991)	364572	33.1568	33.16
	51	Naphthalene	128	8.476	8.481	(1.003)	1395871	43.6178	43.62
	52	4-Chloroaniline	127	8.535	8.545	(1.010)	562513	41.4292	41.43
	53	Hexachlorobutadiene	225	8.621	8.625	(1.020)	193956	32.3019	32.30
	54	4-Chloro-3-methylphenol	107	9.139	9.154	(1.082)	435988	43.5769	43.58
	55	2-Methylnaphthalene	141	9.352	9.357	(1.107)	784482	40.8637	40.86
	56	1-Methylnaphthalene	141	9.475	9.486	(1.121)	807532	42.7914	42.79
	57	Acetophenone	105	7.344	7.354	(1.072)	835321	55.4247	55.42(R)
	67	1,2,4,5-Tetrachlorobenzene	216	9.561	9.566	(1.131)	499039	46.3188	46.32
	68	Caprolactam	113	9.037	9.074	(1.070)	28510	7.86249	7.862(R)
*	69	Acenaphthene-d10	164	10.667	10.677	(1.000)	726020	40.0000	
	70	Hexachlorocyclopentadiene	237	9.545	9.550	(0.895)	181078	26.6057	26.60
	71	2,4,6-Trichlorophenol	196	9.700	9.705	(0.909)	332916	48.0151	48.02
	72	2,4,5-Trichlorophenol	196	9.742	9.753	(0.913)	341832	45.4618	45.46
	73	2-Chloronaphthalene	162	9.967	9.977	(0.934)	908603	46.0204	46.02
$	74	2-Fluorobiphenyl	172	9.812	9.822	(0.920)	673454	29.3215	29.32
	75	2-Nitroaniline	65	10.095	10.105	(0.946)	341440	50.8389	50.84
	76	Dimethylphthalate	163	10.330	10.346	(0.968)	1222212	54.1108	54.11
	77	Acenaphthylene	152	10.490	10.501	(0.983)	1339374	42.7732	42.77
	78	2,6-Dinitrotoluene	165	10.405	10.415	(0.975)	278737	51.3292	51.33
	79	3-Nitroaniline	138	10.619	10.634	(0.995)	238713	40.7076	40.71
	80	Acenaphthene	153	10.715	10.720	(1.004)	945818	46.9307	46.93
	81	2,4-Dinitrophenol	184	10.752	10.762	(1.008)	144838	43.0320	43.03(a)
	83	4-Nitrophenol	65	10.811	10.821	(1.014)	69759	14.1213	14.12(a)
	84	Dibenzofuran	168	10.928	10.939	(1.025)	1423879	51.1027	51.10
	85	2,4-Dinitrotoluene	165	10.912	10.923	(1.023)	375791	52.6845	52.68
	86	Diethylphthalate	149	11.217	11.222	(1.052)	1174990	54.1845	54.18
	87	4-Chlorophenyl-phenylether	204	11.356	11.361	(1.065)	613760	54.2474	54.25
	88	Fluorene	166	11.361	11.366	(1.065)	1192380	49.1164	49.12

Data File: \\ELABNSH05\TARGET\chem\bna3.i\092811b3.b\I26926L1.D
Report Date: 29-Sep-2011 11:29

Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS ON-COLUMN (ng/ul)	FINAL (ug/L)
89 4-Nitroaniline	138	11.393	11.409	(1.068)	269308	45.3346	45.33(M)
96 2,3,4,6-Tetrachlorophenol	232	11.073	11.088	(1.038)	295553	48.7425	48.74
100 1,1'-Biphenyl	154	9.940	9.950	(0.932)	1379655	52.6233	52.62
* 102 Phenanthrene-d10	188	12.558	12.563	(1.000)	1236133	40.0000	
103 1,2-Diphenylhydrazine	77	11.553	11.564	(0.920)	1270547	48.3286	48.33
104 Carbazole	167	12.873	12.878	(1.025)	1578791	48.9171	48.92
105 4,6-Dinitro-2-methylphenol	198	11.425	11.435	(0.910)	256768	57.1383	57.14
106 N-Nitrosodiphenylamine	169	11.505	11.516	(0.916)	807111	38.8137	38.81
$ 107 2,4,6-Tribromophenol	330	11.660	11.671	(0.929)	305510	89.9798	89.98
108 4-Bromophenyl-phenylether	248	11.970	11.975	(0.953)	369230	52.2935	52.29
109 Hexachlorobenzene	284	12.045	12.050	(0.959)	353178	46.7686	46.77
110 Pentachlorophenol	266	12.291	12.301	(0.979)	276001	55.0252	55.02
111 Phenanthrene	178	12.590	12.600	(1.003)	1744003	52.4546	52.45
112 Anthracene	178	12.659	12.669	(1.008)	1726921	51.1420	51.14
115 Di-n-butylphthalate	149	13.354	13.364	(1.063)	1997242	54.6769	54.68
116 Fluoranthene	202	14.326	14.336	(1.141)	1909453	50.0779	50.08
129 Atrazine	200	12.178	12.183	(0.970)	382454	52.7825	52.78
* 132 Chrysene-d12	240	16.938	16.949	(1.000)	1271142	40.0000	
133 Benzidine	184	14.550	14.561	(0.859)	1770	0.08687	0.08686(aM)
134 Pyrene	202	14.700	14.710	(0.868)	1968559	53.2291	53.23
$ 135 Terphenyl-d14	244	14.962	14.972	(0.883)	1293595	54.5504	54.55
136 Butylbenzylphthalate	149	15.864	15.875	(0.937)	952131	58.4064	58.41(R)
137 3,3'-Dichlorobenzidine	252	16.880	16.890	(0.997)	625113	48.3644	48.36
138 Benzo(a)anthracene	228	16.912	16.927	(0.998)	1898252	53.3672	53.37
139 Chrysene	228	16.992	17.002	(1.003)	1827518	54.8811	54.88
140 Bis(2-ethylhexyl)phthalate	149	17.024	17.034	(1.005)	1270759	58.8658	58.86
* 154 Perylene-d12	264	19.828	19.844	(1.000)	1258619	40.0000	
155 Di-n-octylphthalate	149	18.359	18.370	(0.926)	2204151	58.1643	58.16
156 Benzo(b)fluoranthene	252	19.048	19.075	(0.961)	1847918	53.6971	53.70
157 Benzo(k)fluoranthene	252	19.107	19.123	(0.964)	1835018	52.6468	52.65
158 Benzo(a)pyrene	252	19.711	19.726	(0.994)	1667509	50.6710	50.67
159 Indeno(1,2,3-cd)pyrene	276	22.462	22.488	(1.133)	1671425	51.1743	51.17(M)
160 Dibenz(a,h)anthracene	278	22.537	22.558	(1.137)	1597548	50.5451	50.54
161 Benzo(g,h,i)perylene	276	23.237	23.263	(1.172)	1605469	49.3866	49.39

QC Flag Legend

a - Target compound detected but, quantitated amount Below Limit Of Quantitation(BLOQ).
R - Spike/Surrogate failed recovery limits.
M - Compound response manually integrated.

Data File: \\ELABNSH05\TARGET\chem\bna3.i\092811b3.b\I26926L1.D
Report Date: 29-Sep-2011 11:29

Laboratory Name

RECOVERY REPORT

Client Name:
Sample Matrix: LIQUID
Lab Smp Id: 1I26926-BS1
Level: LOW
Data Type: MS DATA
SpikeList File: dodlcs.spk
Sublist File: ppbnax.sub
Method File: \\ELABNSH05\TARGET\chem\bna3.i\092811b3.b\IXBN3.m
Misc Info: ;3;LCS;;;1I26926;ppbnax.sub;

Client SDG: SDGa39383
Fraction: SV
Client Smp ID: 1I26926-BS1
Operator: GLQ
SampleType: LCS
Quant Type: ISTD

SPIKE COMPOUND	CONC ADDED ug/L	CONC RECOVERED ug/L	% RECOVERED	LIMITS
4 Pyridine	50.00	7.152	14.30	0-110
6 N-Nitroso-di-methy	50.00	22.33	44.66	25-110
7 Aniline	50.00	28.11	56.22	10-110
10 Phenol	50.00	13.29	26.58	0-115
11 bis(2-Chloroethyl)	50.00	52.11	104.22	35-110
12 2-Chlorophenol	50.00	38.56	77.12	35-105
13 1,3-Dichlorobenzen	50.00	33.98	67.96	30-100
14 1,4-Dichlorobenzen	50.00	36.05	72.10	30-100
15 Benzyl alcohol	50.00	32.78	65.56	30-110
16 1,2-Dichlorobenzen	50.00	36.36	72.72	35-100
17 2-Methylphenol	50.00	33.42	66.84	40-110
20 4-Methylphenol	50.00	30.07	60.14	30-110
196 3-Methylphenol/4-M	50.00	30.13	60.26	30-110
21 N-Nitroso-di-n-pro	50.00	56.91	113.82	35-130
22 Hexachloroethane	50.00	30.91	61.82	30-95
32 Benzaldehyde	50.00	53.27	106.54	10-180
35 Nitrobenzene	50.00	48.43	96.86	45-110
39 Isophorone	50.00	45.82	91.64	50-110
40 2-Nitrophenol	50.00	46.35	92.70	40-115
42 2,4-Dimethylphenol	50.00	42.41	84.82	30-110
43 Benzoic acid	50.00	0.3548	0.71	0-125
44 bis(2-Chloroethoxy	50.00	51.52	103.04	45-105
47 2,4-Dichlorophenol	50.00	41.42	82.84	50-105
50 1,2,4-Trichloroben	50.00	33.16	66.32	35-105
51 Naphthalene	50.00	43.62	87.24	40-100
52 4-Chloroaniline	50.00	41.43	82.86	15-110
53 Hexachlorobutadien	50.00	32.30	64.60	25-105
54 4-Chloro-3-methylp	50.00	43.58	87.16	45-110
55 2-Methylnaphthalen	50.00	40.86	81.72	45-105
56 1-Methylnaphthalen	50.00	42.79	85.58	30-115
57 Acetophenone	50.00	55.42	110.84*	50-110
67 1,2,4,5-Tetrachlor	50.00	46.32	92.64	50-125
68 Caprolactam	50.00	7.862	15.72*	20-110

Data File: \\ELABNSH05\TARGET\chem\bna3.i\092811b3.b\I26926L1.D
Report Date: 29-Sep-2011 11:29

SPIKE	COMPOUND	CONC ADDED ug/L	CONC RECOVERED ug/L	% RECOVERED	LIMITS
70	Hexachlorocyclopen	50.00	26.60	53.20	10-110
71	2,4,6-Trichlorophe	50.00	48.02	96.04	50-115
72	2,4,5-Trichlorophe	50.00	45.46	90.92	50-110
73	2-Chloronaphthalen	50.00	46.02	92.04	50-105
75	2-Nitroaniline	50.00	50.84	101.68	50-115
76	Dimethylphthalate	50.00	54.11	108.22	25-125
77	Acenaphthylene	50.00	42.77	85.54	50-105
78	2,6-Dinitrotoluene	50.00	51.33	102.66	50-115
79	3-Nitroaniline	50.00	40.71	81.42	20-125
80	Acenaphthene	50.00	46.93	93.86	45-110
81	2,4-Dinitrophenol	50.00	43.03	86.06	15-140
83	4-Nitrophenol	50.00	14.12	28.24	0-125
84	Dibenzofuran	50.00	51.10	102.20	55-105
85	2,4-Dinitrotoluene	50.00	52.68	105.36	50-120
86	Diethylphthalate	50.00	54.18	108.36	40-120
87	4-Chlorophenyl-phe	50.00	54.25	108.50	50-110
88	Fluorene	50.00	49.12	98.24	50-110
89	4-Nitroaniline	50.00	45.33	90.66	35-120
96	2,3,4,6-Tetrachlor	50.00	48.74	97.48	50-125
100	1,1'-Biphenyl	50.00	52.62	105.24	50-110
103	1,2-Diphenylhydraz	50.00	48.33	96.66	55-115
104	Carbazole	50.00	48.92	97.84	50-115
105	4,6-Dinitro-2-meth	50.00	57.14	114.28	40-130
106	N-Nitrosodiphenyla	50.00	38.81	77.62	50-110
108	4-Bromophenyl-phen	50.00	52.29	104.58	50-115
109	Hexachlorobenzene	50.00	46.77	93.54	50-110
110	Pentachlorophenol	50.00	55.02	110.04	40-115
111	Phenanthrene	50.00	52.45	104.90	50-115
112	Anthracene	50.00	51.14	102.28	55-110
115	Di-n-butylphthalat	50.00	54.68	109.36	55-115
116	Fluoranthene	50.00	50.08	100.16	55-115
129	Atrazine	50.00	52.78	105.56	70-115
133	Benzidine	50.00	0.08686	0.17	0-200
134	Pyrene	50.00	53.23	106.46	50-130
136	Butylbenzylphthala	50.00	58.41	116.82*	45-115
137	3,3'-Dichlorobenzi	50.00	48.36	96.72	20-110
138	Benzo(a)anthracene	50.00	53.37	106.74	55-110
139	Chrysene	50.00	54.88	109.76	55-110
140	Bis(2-ethylhexyl)p	50.00	58.86	117.72	40-125
155	Di-n-octylphthalat	50.00	58.16	116.32	35-135
156	Benzo(b)fluoranthe	50.00	53.70	107.40	45-120
157	Benzo(k)fluoranthe	50.00	52.65	105.30	45-125
158	Benzo(a)pyrene	50.00	50.67	101.34	55-110
159	Indeno(1,2,3-cd)py	50.00	51.17	102.34	45-125
160	Dibenz(a,h)anthrac	50.00	50.54	101.08	40-125
161	Benzo(g,h,i)peryle	50.00	49.39	98.78	40-125

Data File: \\ELABNSH05\TARGET\chem\bna3.i\092811b3.b\I26926L1.D
Report Date: 29-Sep-2011 11:29

Laboratory Name

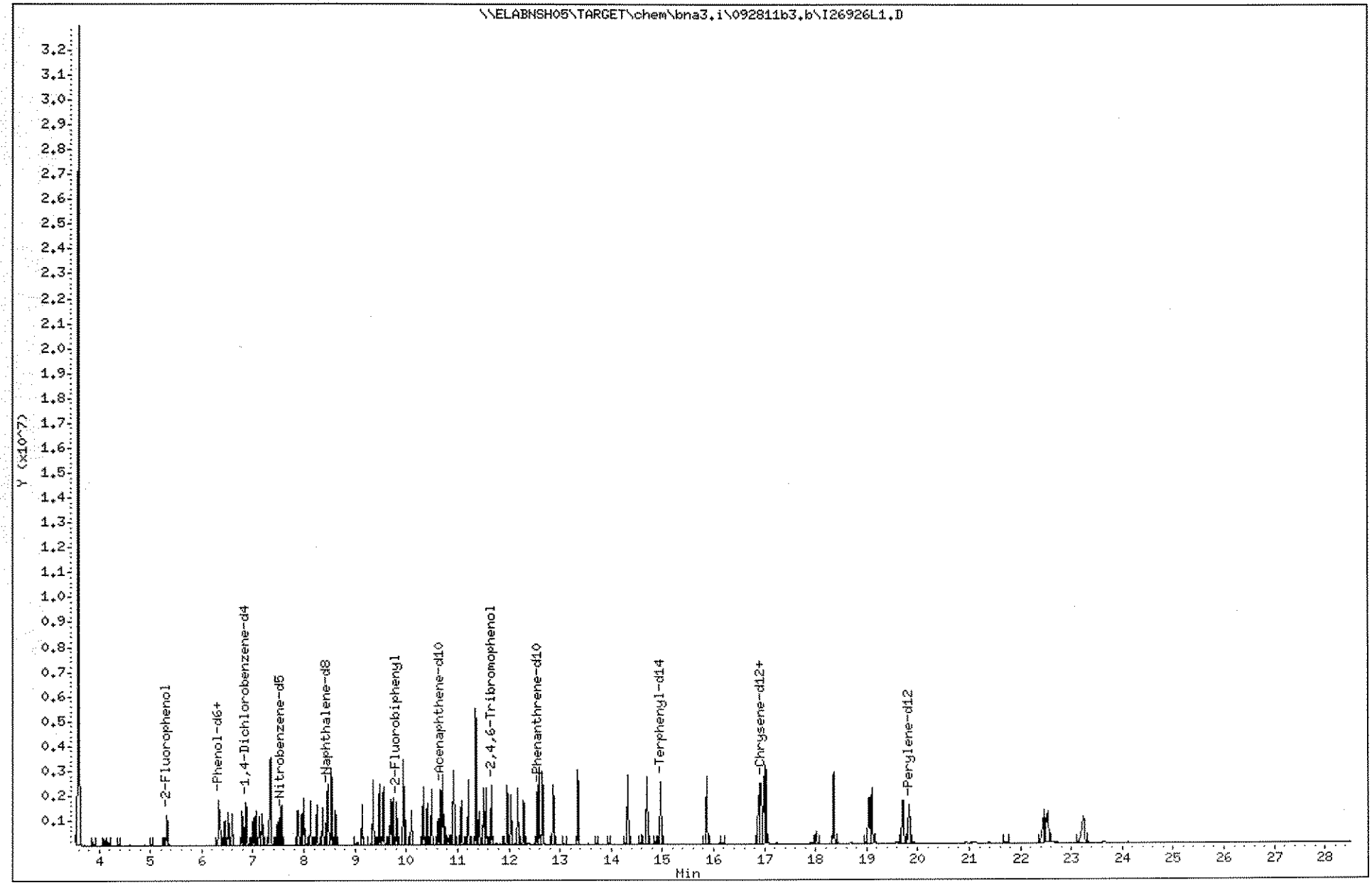
RECOVERY REPORT

Client Name:
Client SDG: SDGa39383
Sample Matrix: LIQUID
Fraction: SV
Lab Smp Id: 1I26926-BS1
Client Smp ID: 1I26926-BS1
Level: LOW
Operator: GLQ
Data Type: MS DATA
SampleType: LCS
SpikeList File: dodlcs.spk
Quant Type: ISTD
Sublist File: ppbnax.sub
Method File: \\ELABNSH05\TARGET\chem\bna3.i\092811b3.b\IXBN3.m
Misc Info: ;3;LCS;;;1I26926;ppbnax.sub;

SURROGATE COMPOUND	CONC ADDED ug/L	CONC RECOVERED ug/L	% RECOVERED	LIMITS
$ 2 2-Fluorophenol	100.0	44.94	44.94	20-110
$ 3 Phenol-d6	100.0	25.30	25.30	10-115
$ 34 Nitrobenzene-d5	50.00	42.82	85.64	40-110
$ 74 2-Fluorobiphenyl	50.00	29.32	58.64	50-110
$ 107 2,4,6-Tribromophen	100.0	89.98	89.98	40-125
$ 135 Terphenyl-d14	50.00	54.55	109.10	50-135

Data File: \\ELABNSH05\TARGET\chem\bna3.i\092811b3.b\I26926L1.D
Date : 28-SEP-2011 15:43
Client ID: 1I26926-BS1
Sample Info: 1I26926-BS1;;1000;1000;UG/L;;27-SEP-2011
Volume Injected (uL): 0.5
Column phase: fused silica

Instrument: bna3.i
Operator: GLQ
Column diameter: 0.25



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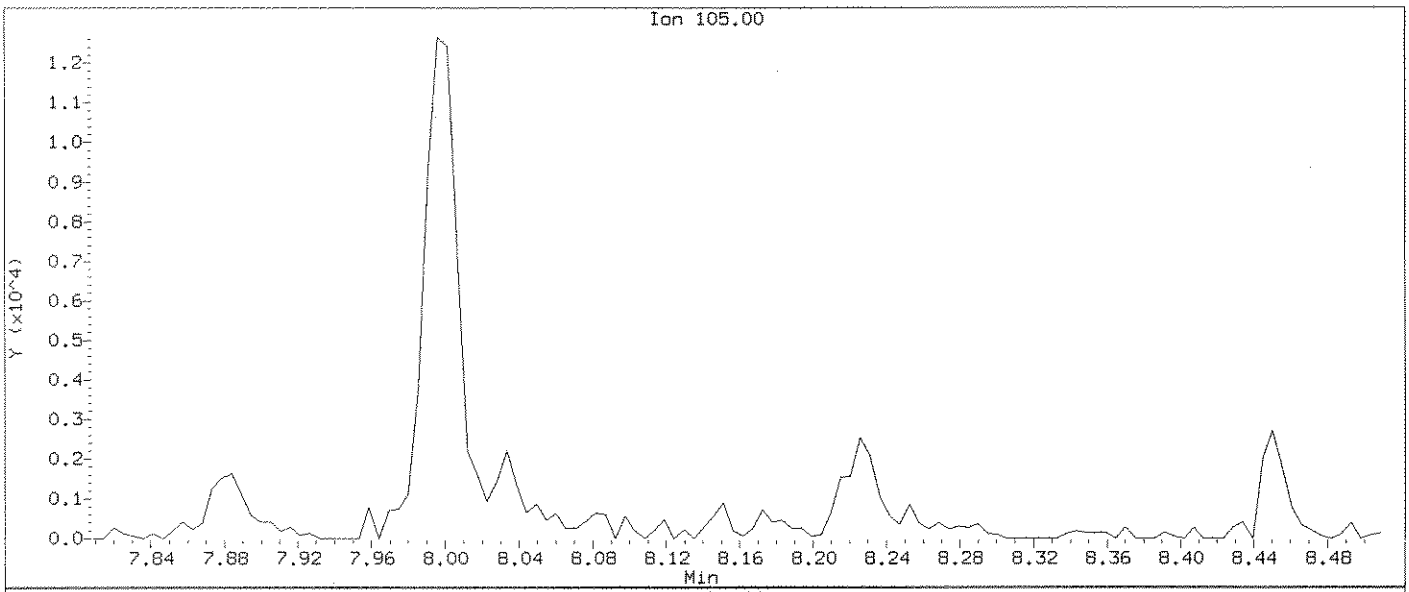
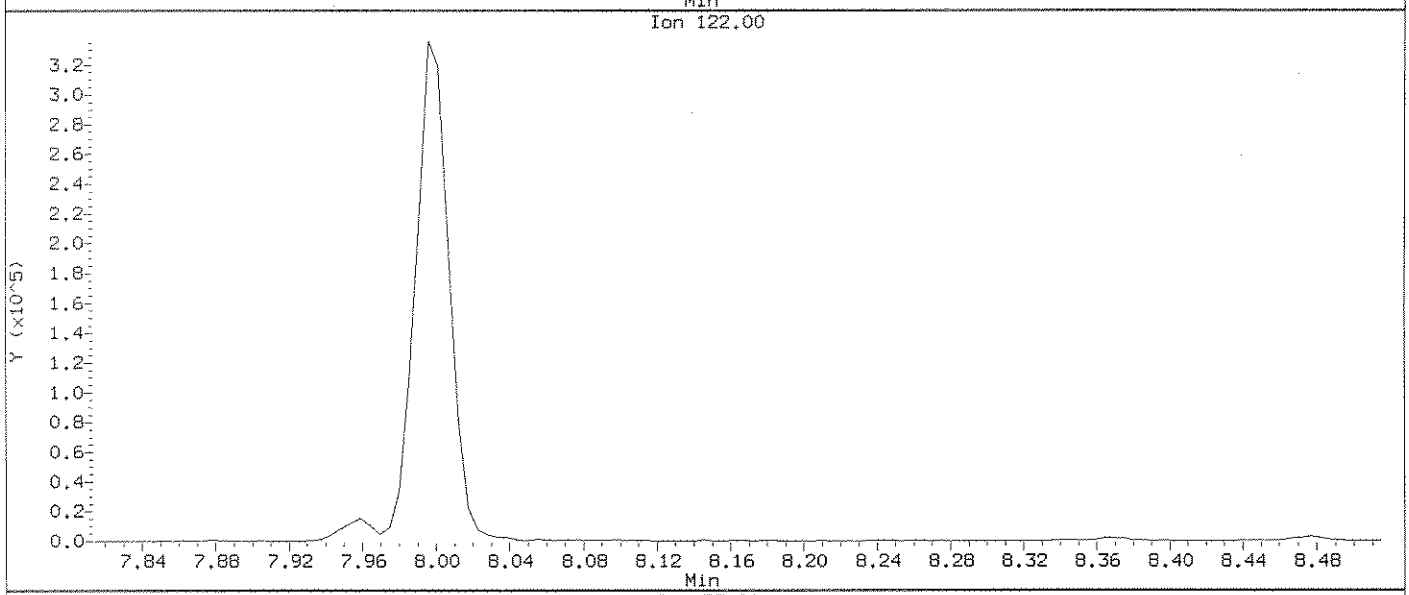
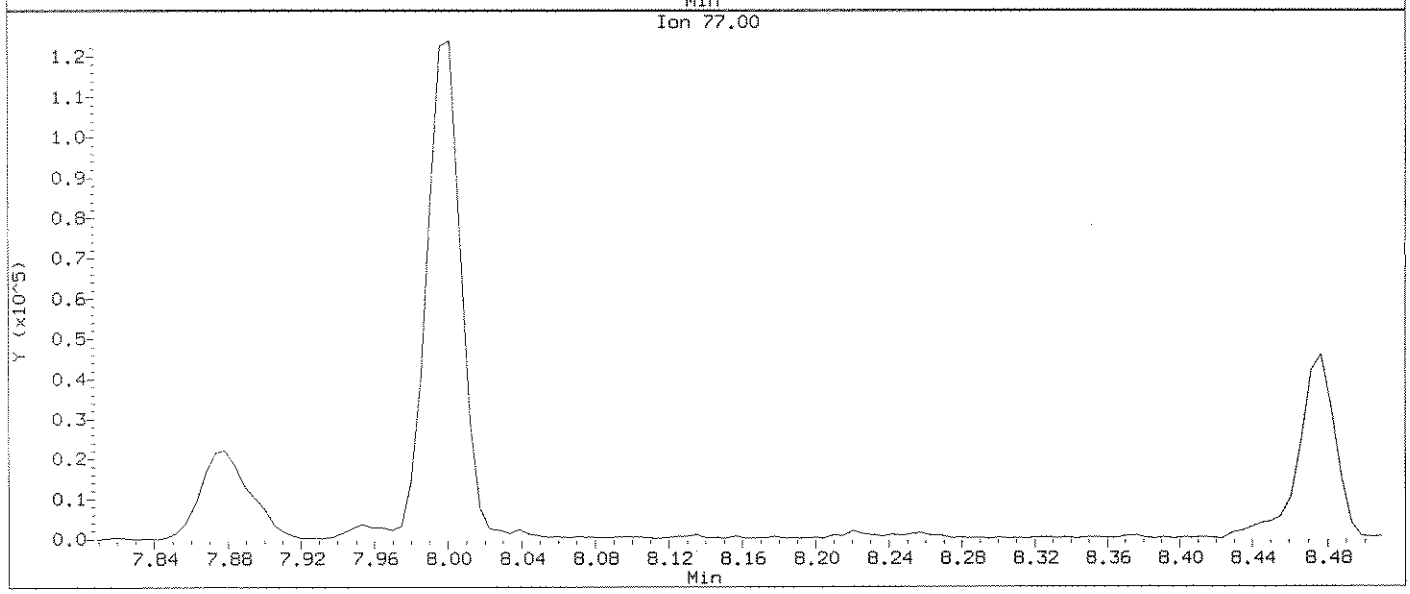
1109191

Data File: \\ELABNSHO5\TARGET\chem\bna3.i\092811b3.b\I26926L1.D
Injection Date: 28-SEP-2011 15:43
Instrument: bna3.i
Client Sample ID: 1I26926-BS1

Compound: Benzoic acid
CAS Number: 65-85-0







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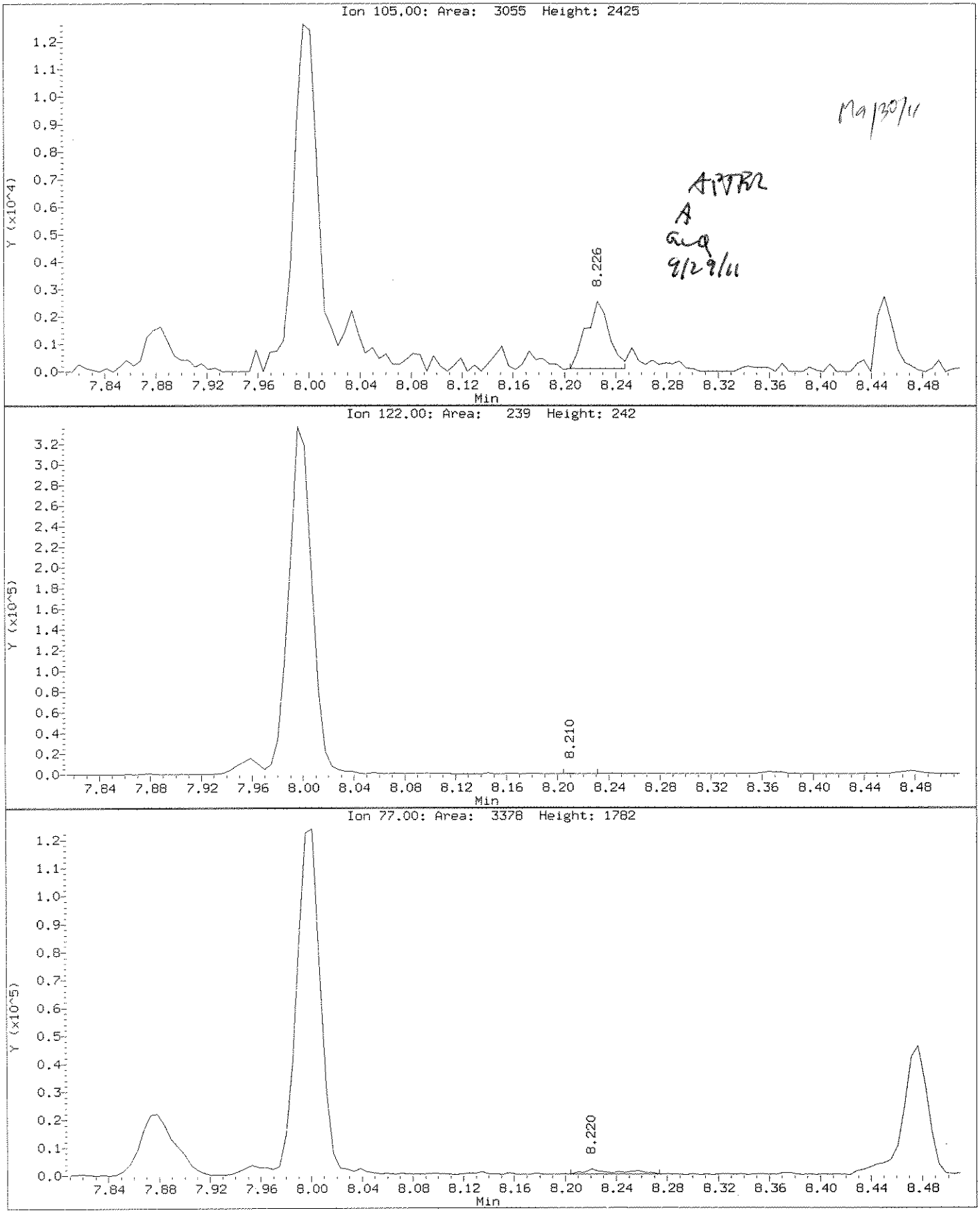
Injection Date: 28-SEP-2011 15:43
Instrument: bna3.i
Client Sample ID: 1I26926-BS1

Compound: Benzoic acid
CAS Number: 65-85-0



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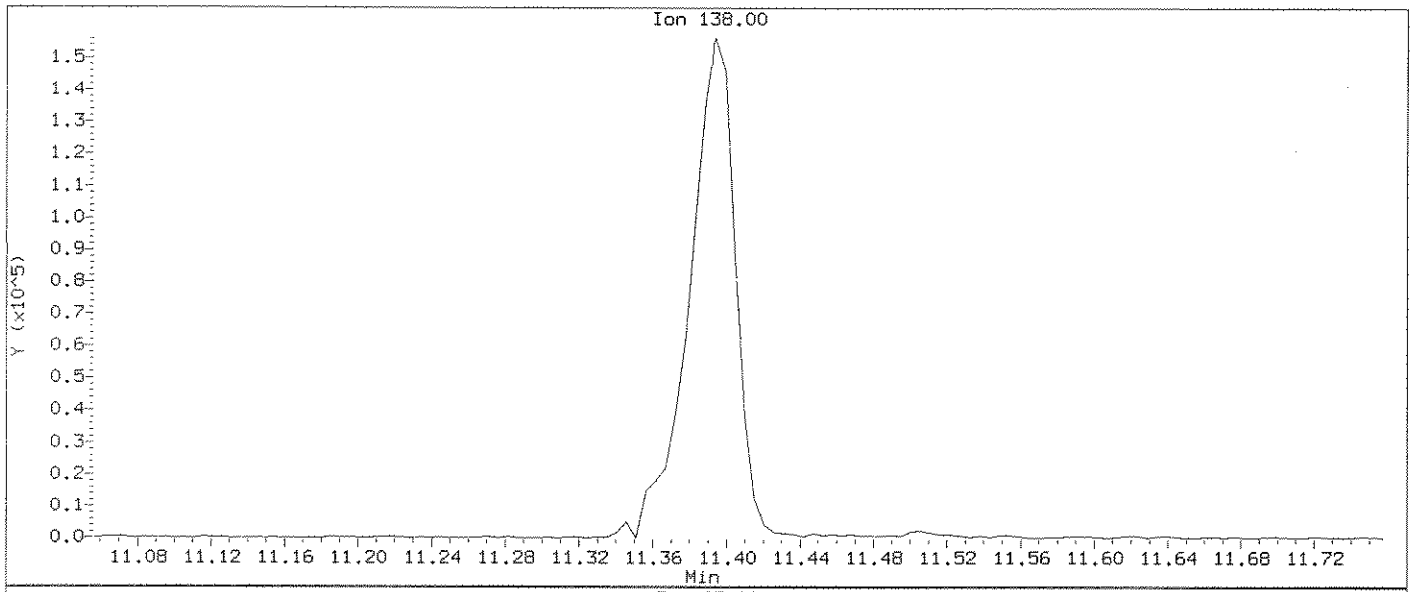
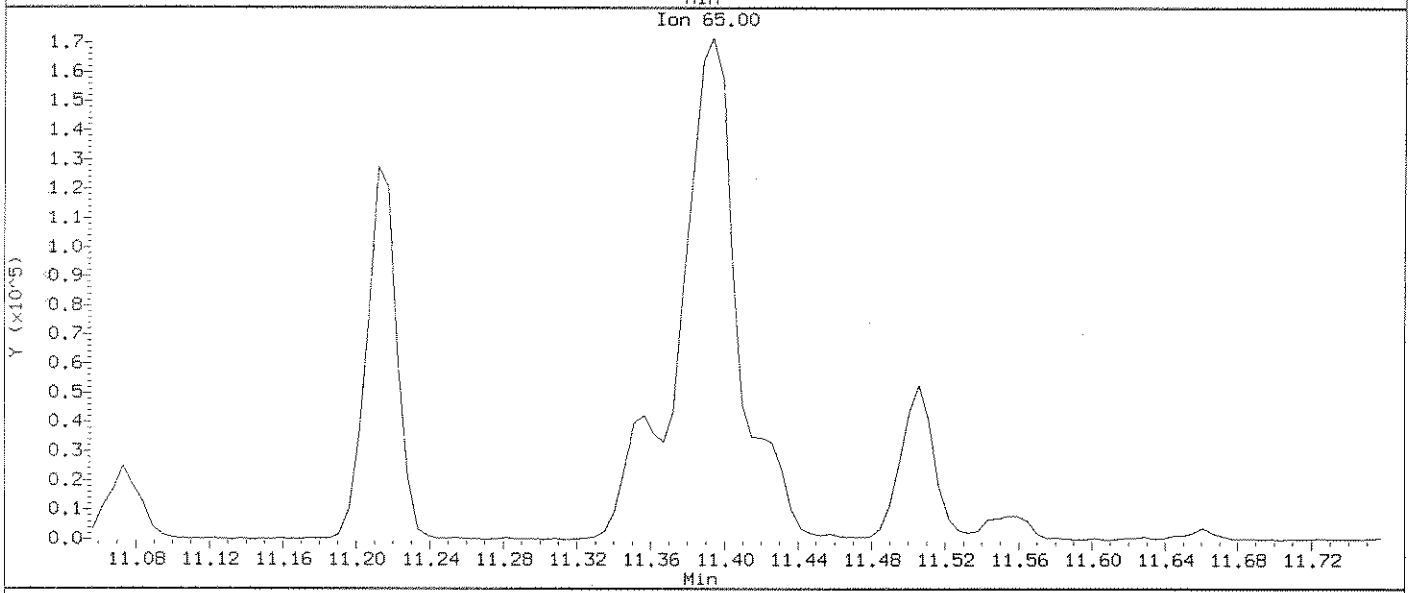
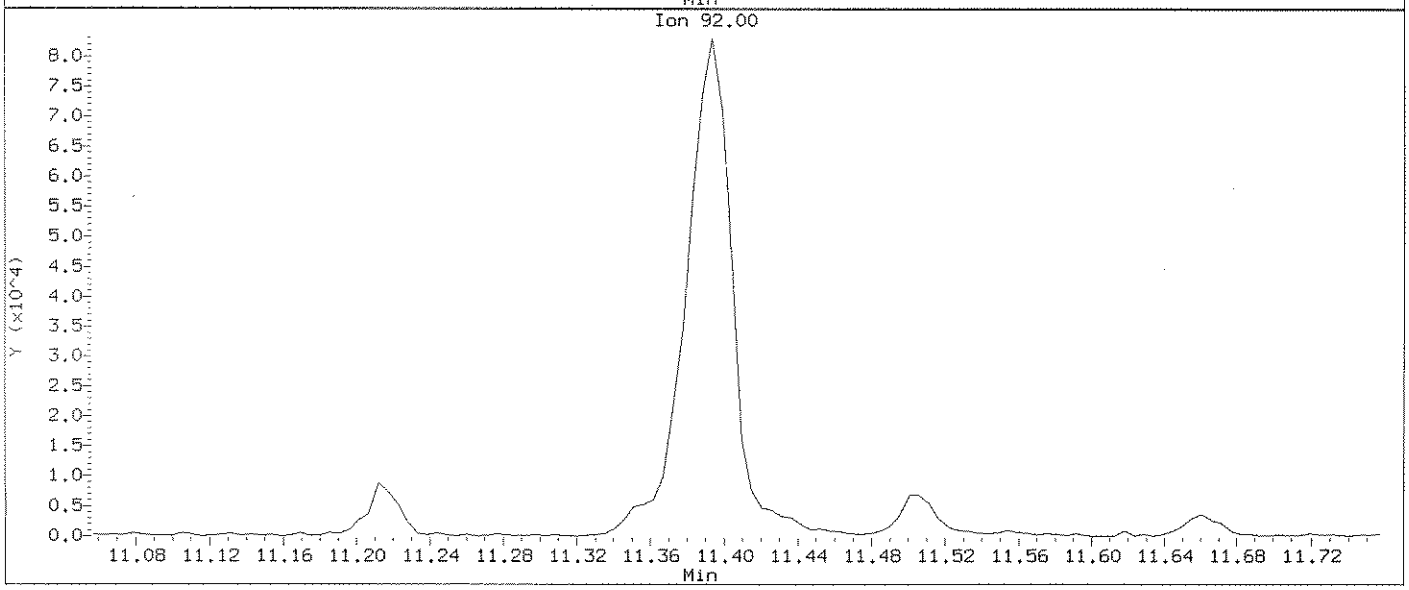
Injection Date: 28-SEP-2011 15:43
Instrument: bna3.i
Client Sample ID: 1I26926-BS1

Compound: 4-Nitroaniline
CAS Number: 100-01-6







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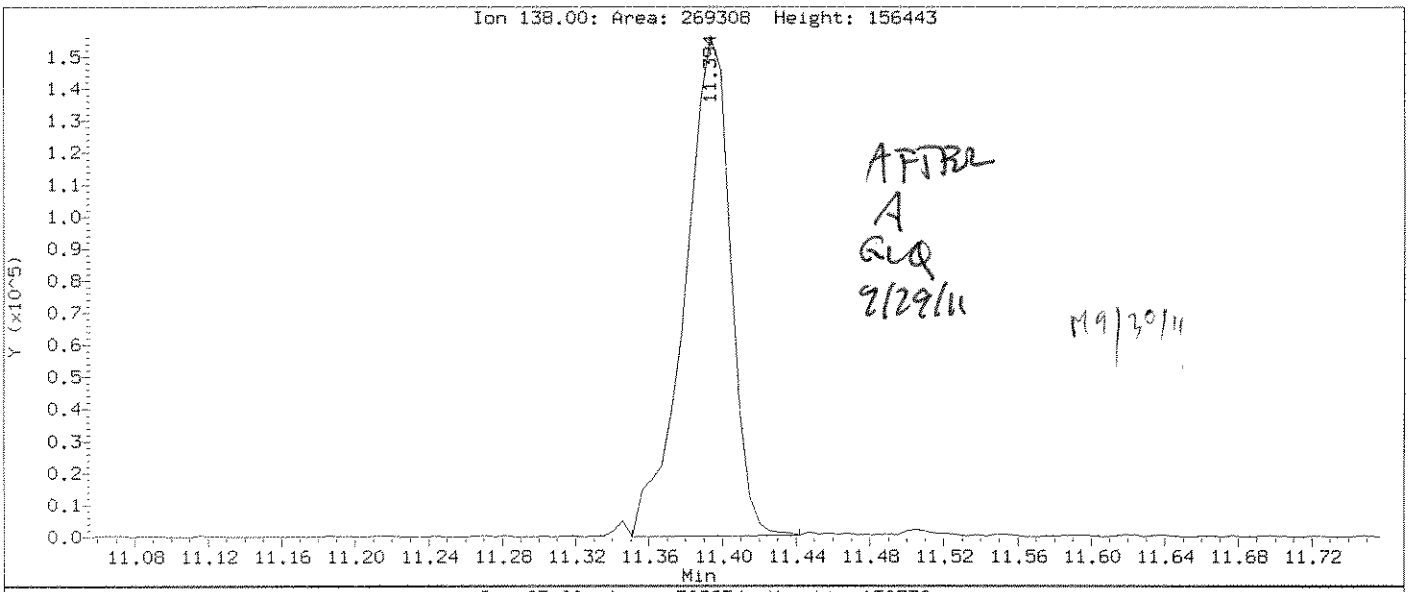
Injection Date: 28-SEP-2011 15:43
Instrument: bna3.i
Client Sample ID: 1I26926-BS1

Compound: 4-Nitroaniline
CAS Number: 100-01-6



AFTER A QLQ 9/29/11

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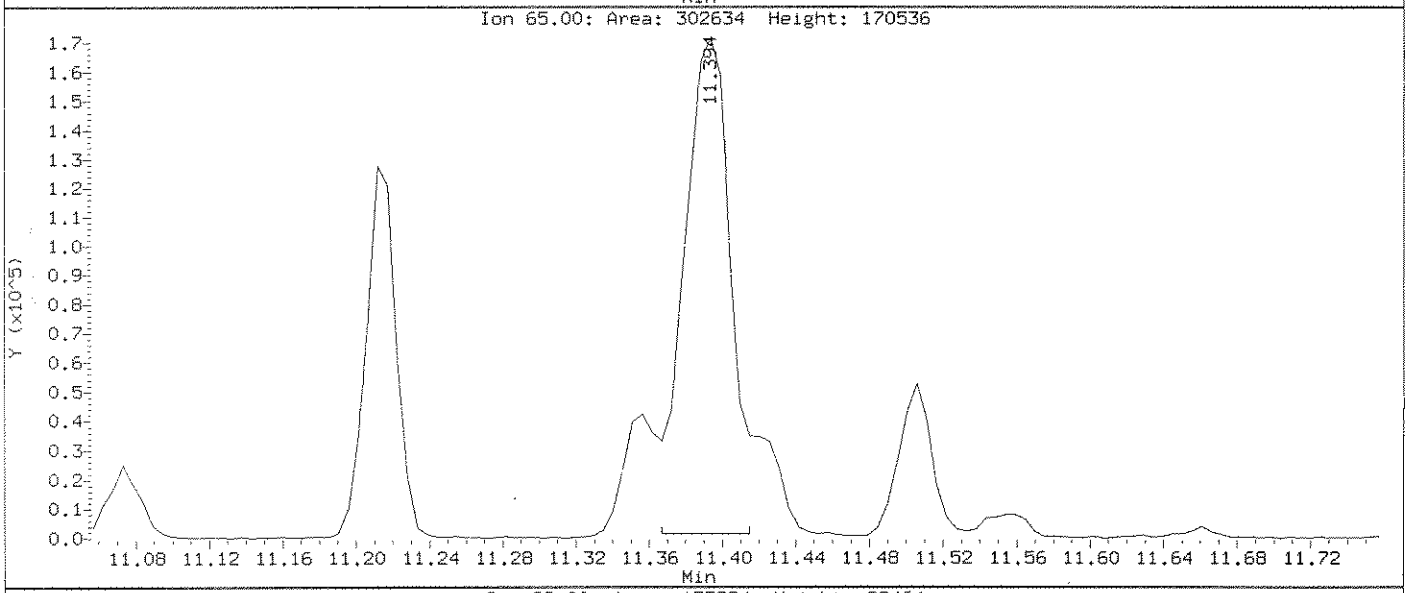

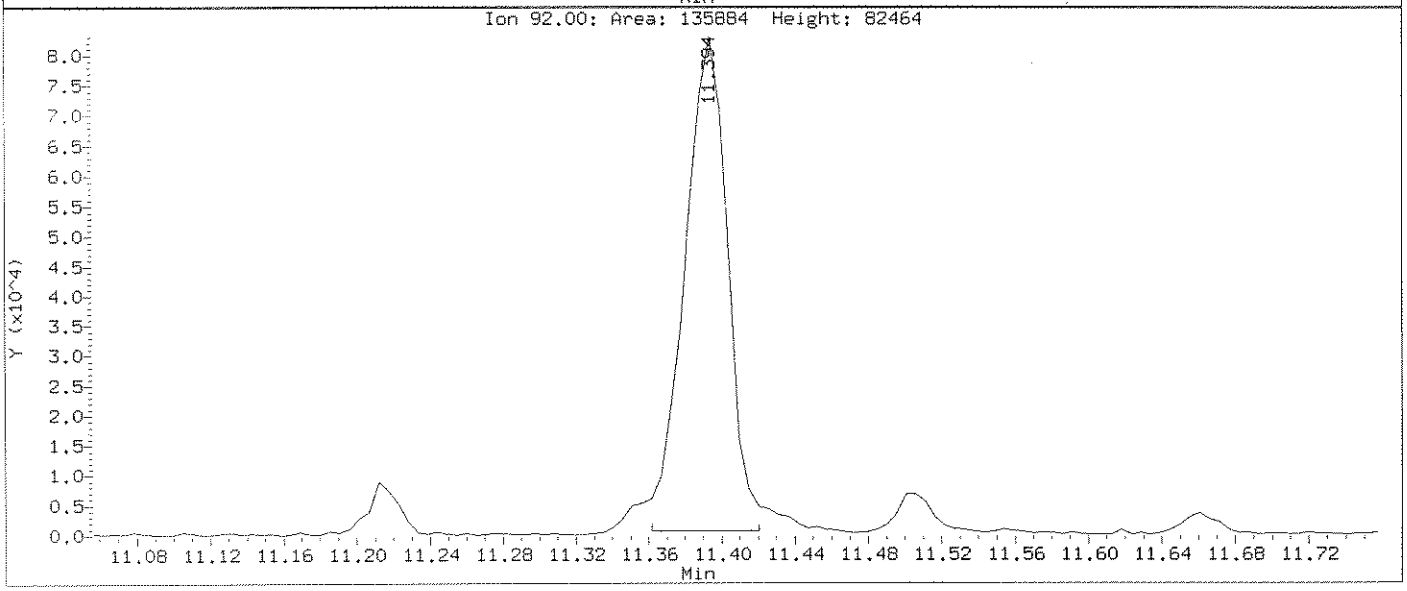

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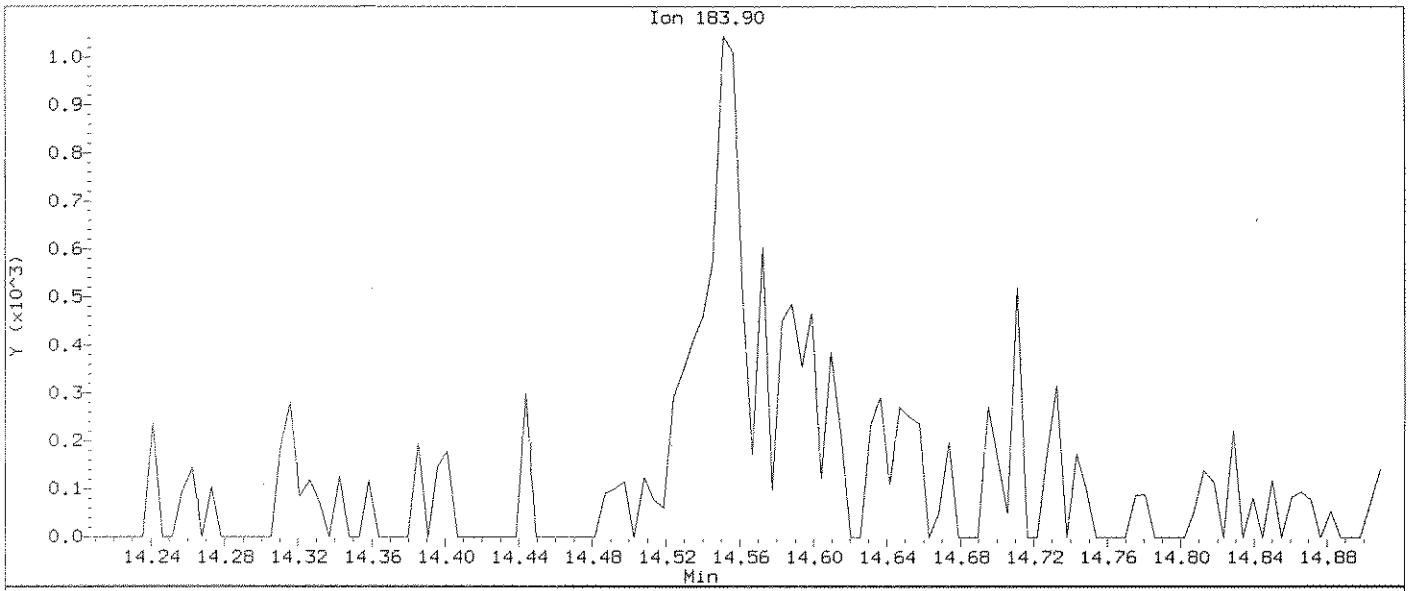
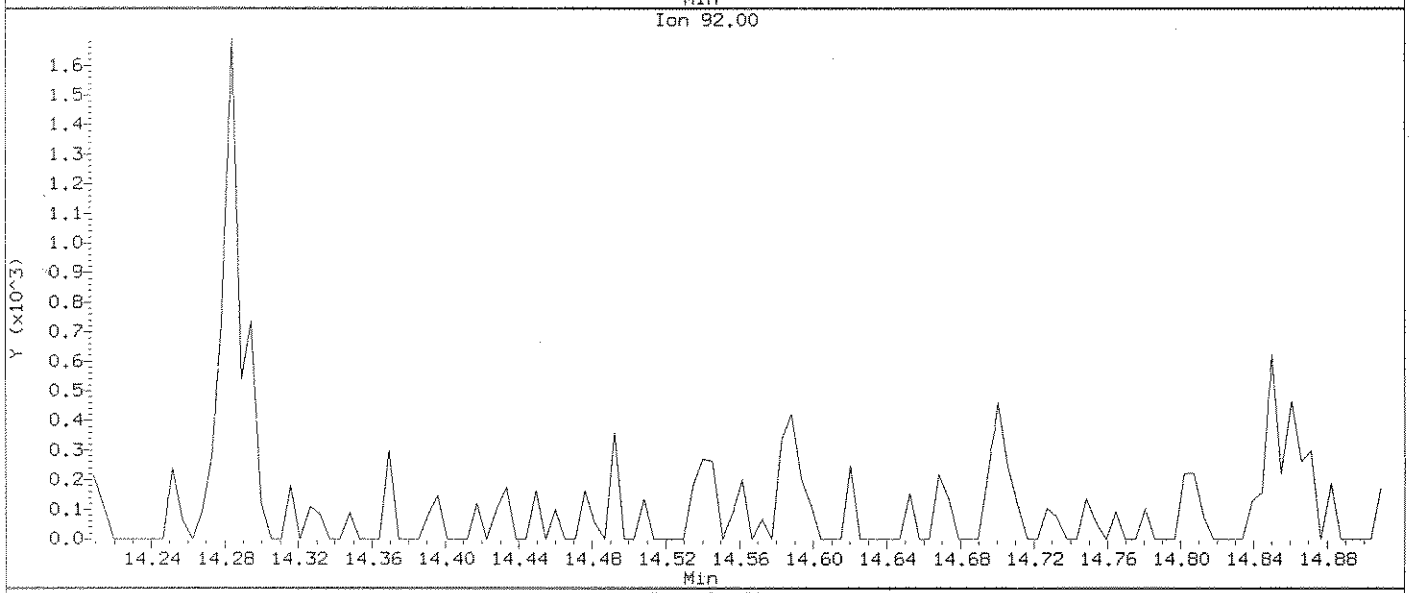
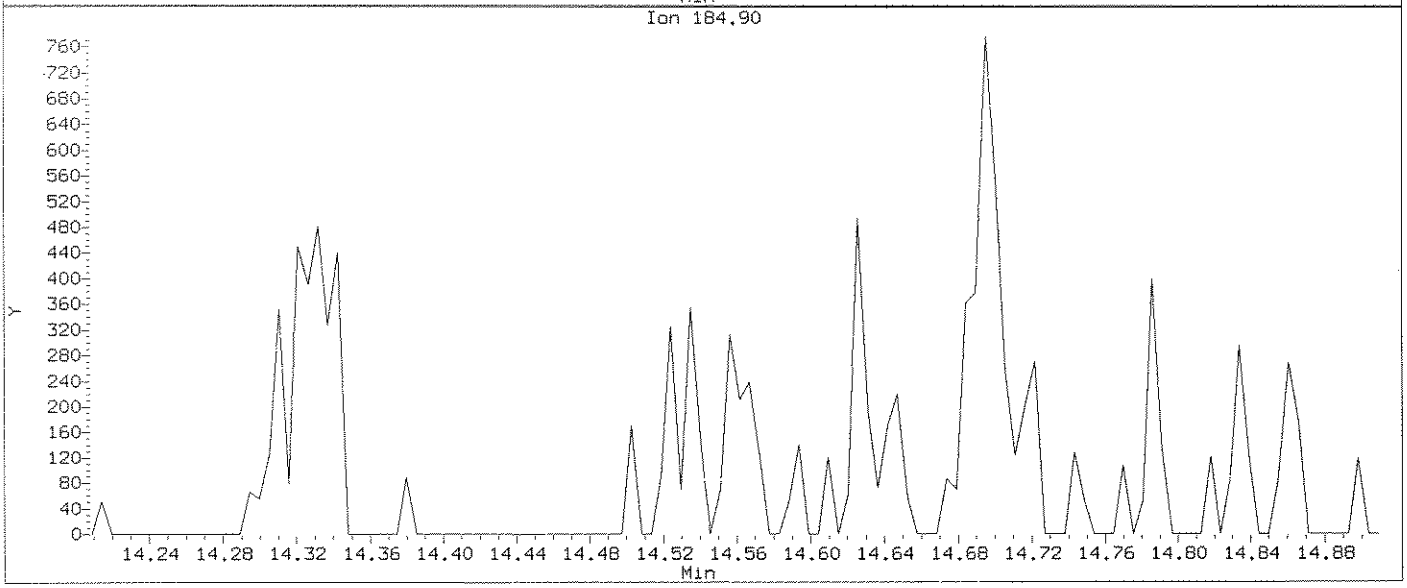
Injection Date: 28-SEP-2011 15:43
Instrument: bna3.i
Client Sample ID: 1I26926-BS1

Compound: Benzidine
CAS Number: 92-87-5







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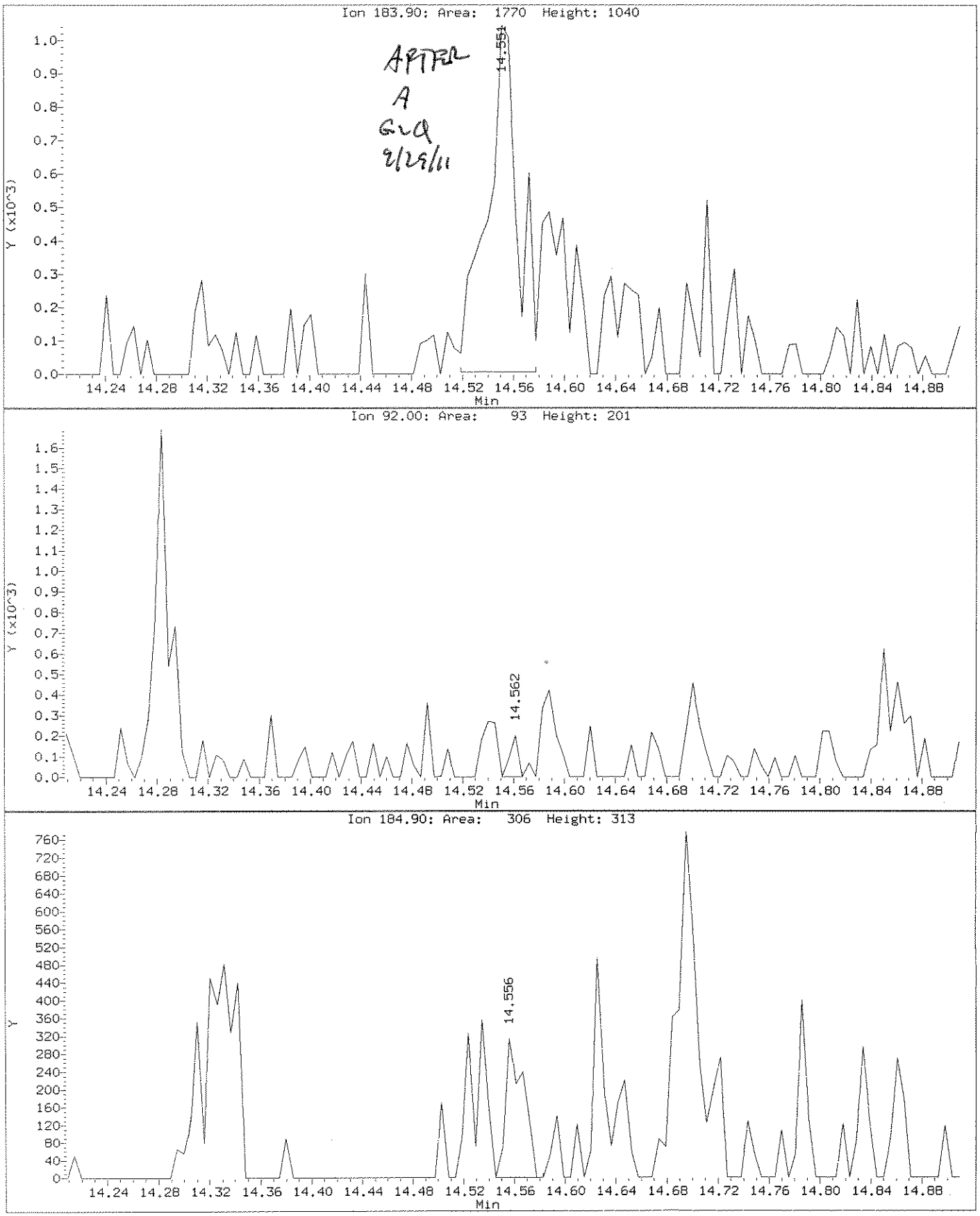
Injection Date: 28-SEP-2011 15:43
Instrument: bna3.i
Client Sample ID: 1I26926-BS1

Compound: Benzidine
CAS Number: 92-87-5



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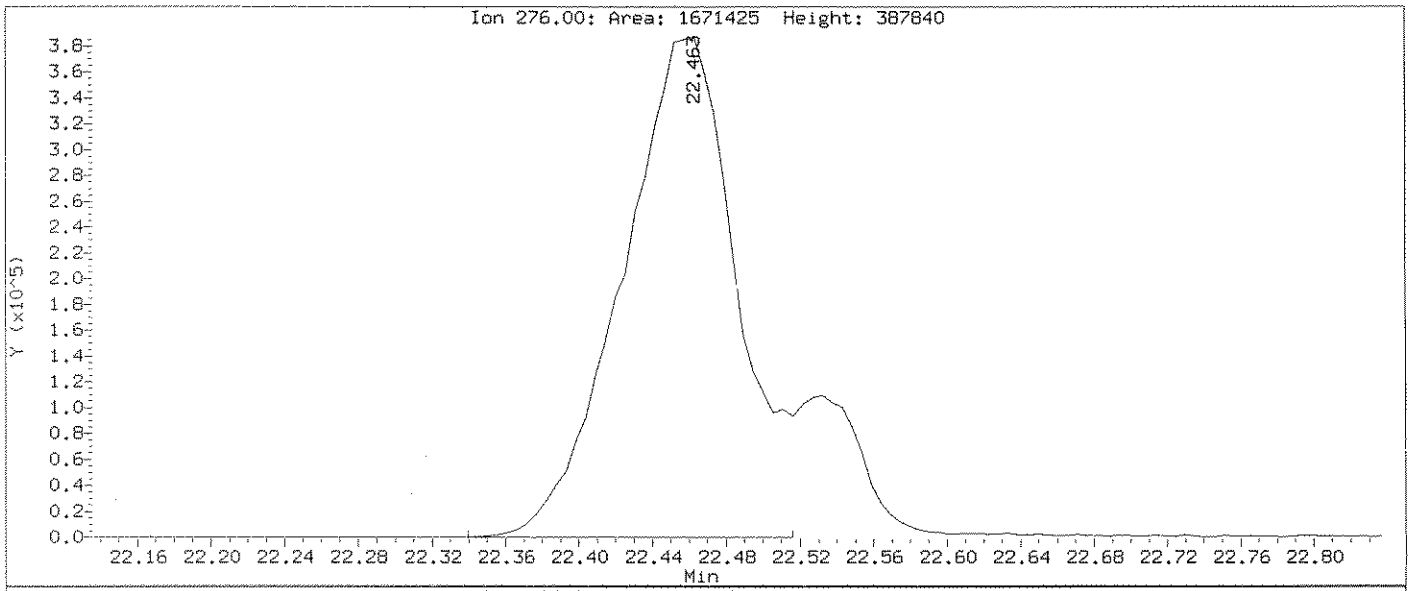
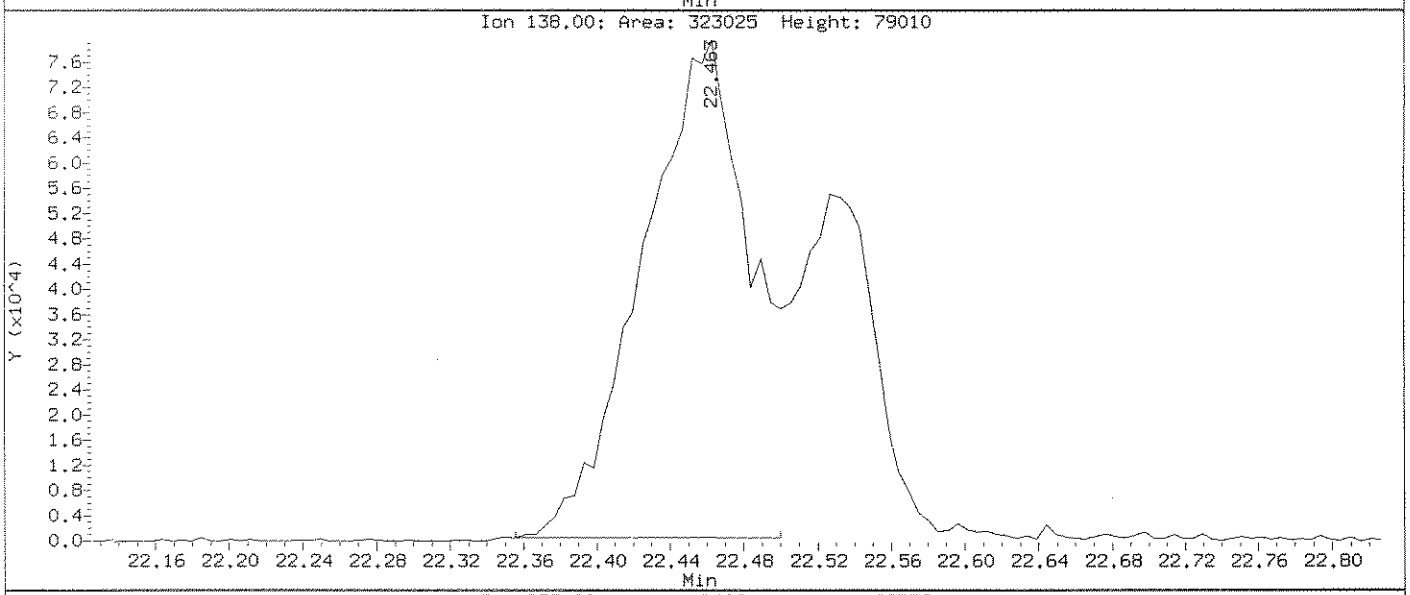
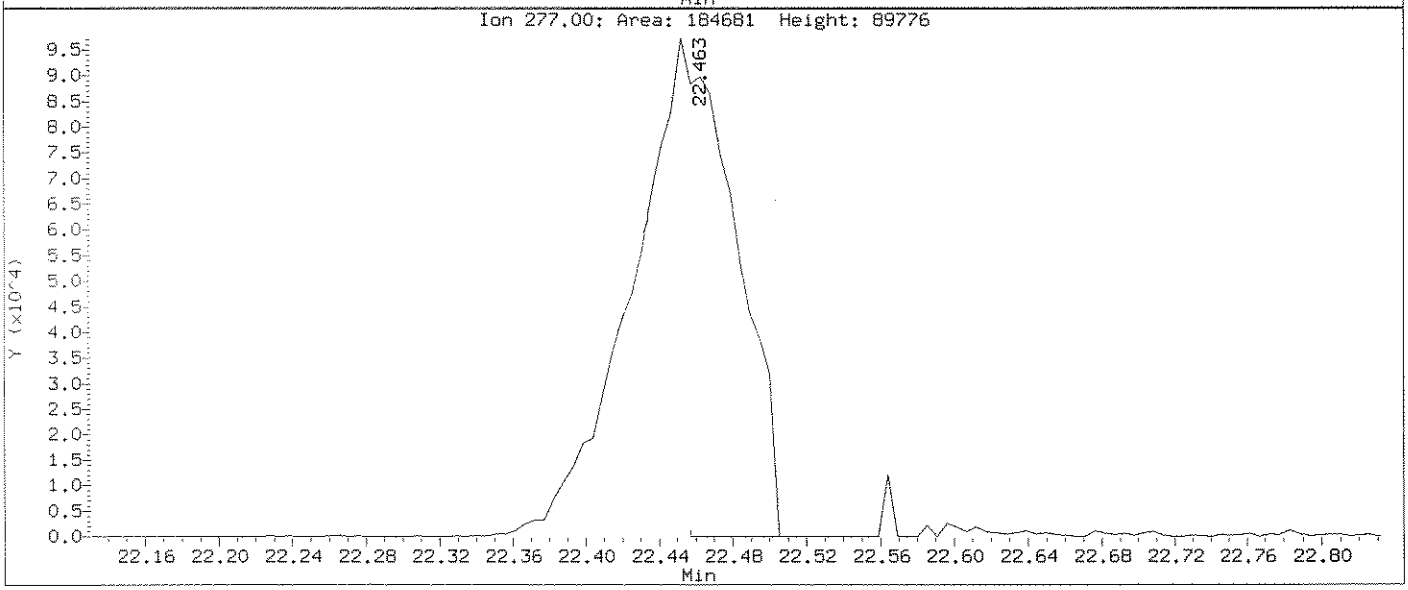
Injection Date: 28-SEP-2011 15:43
Instrument: bna3.i
Client Sample ID: 1I26926-BS1

Compound: Indeno(1,2,3-cd)pyrene
CAS Number: 193-39-5







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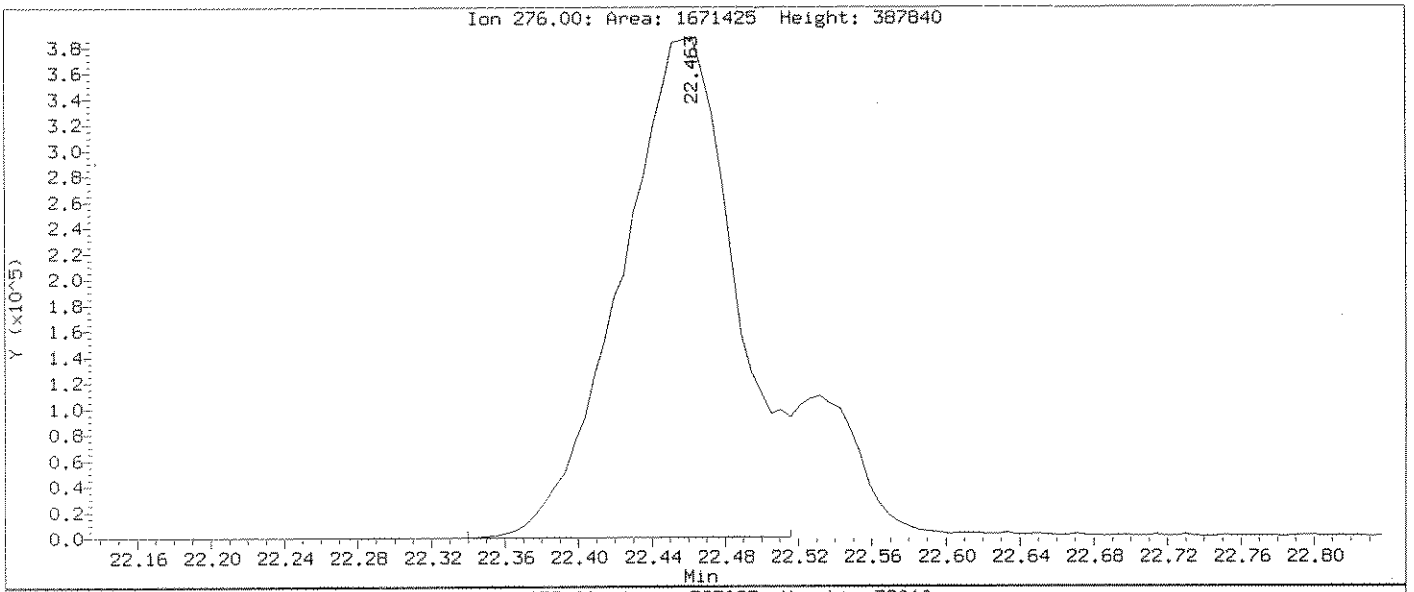
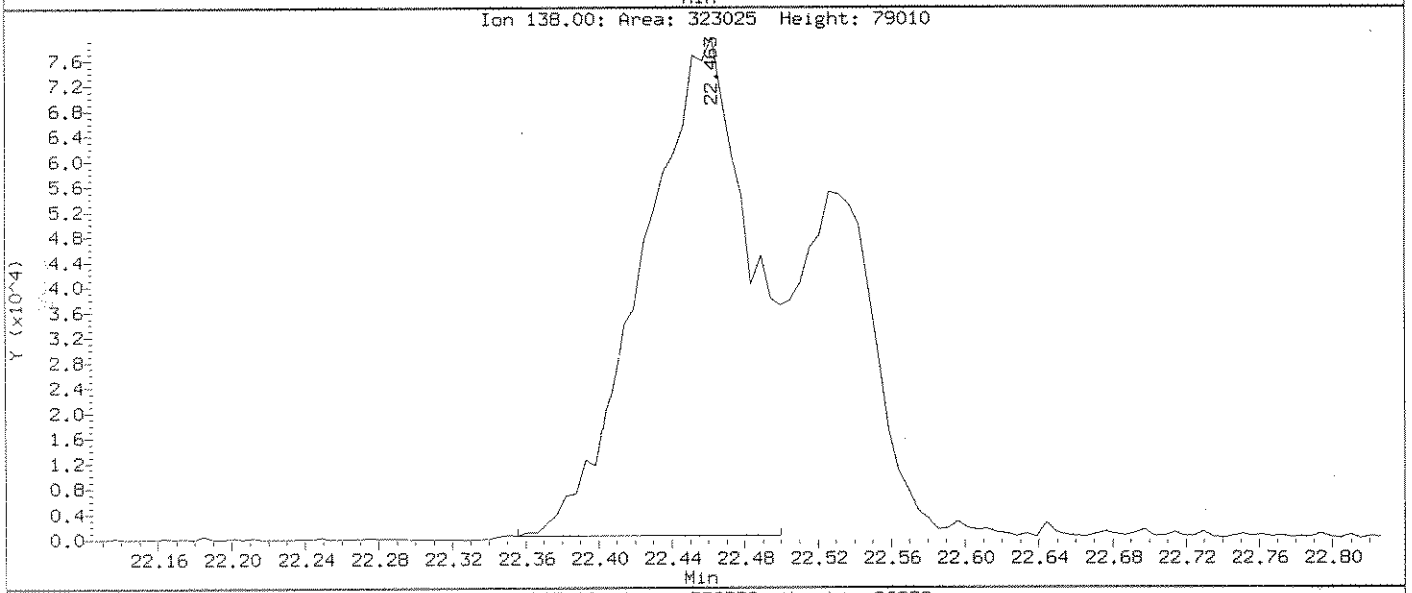
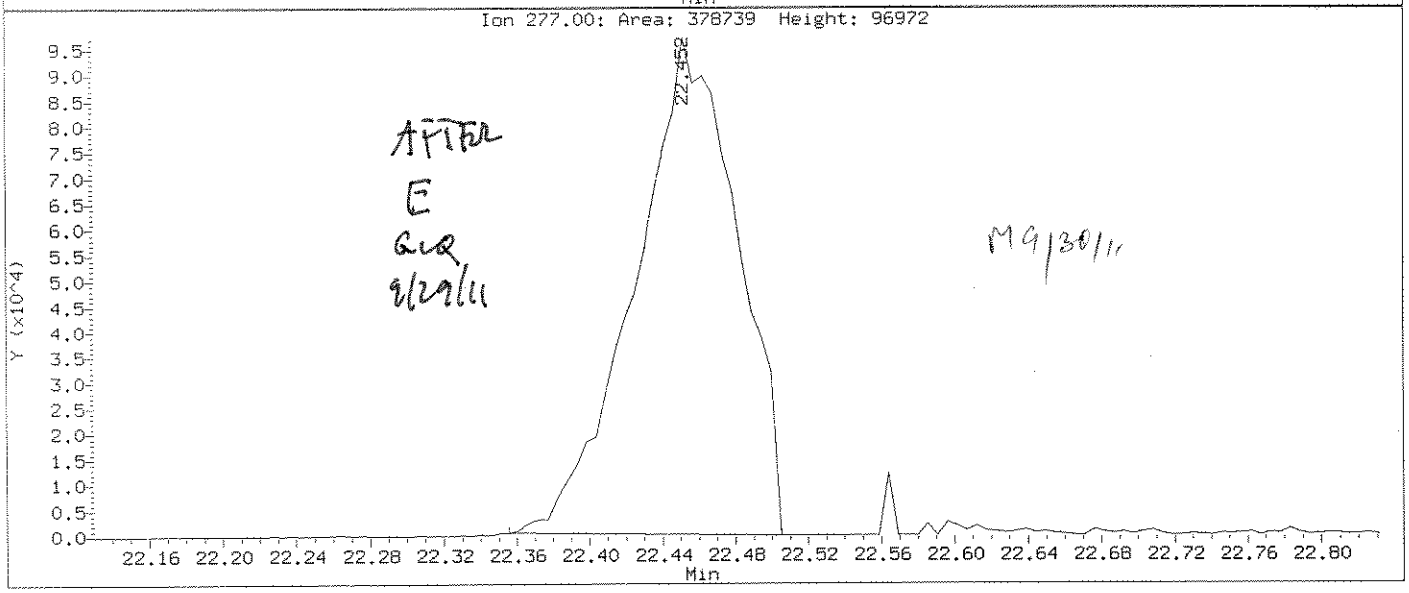
Injection Date: 28-SEP-2011 15:43
Instrument: bna3.i
Client Sample ID: 1I26926-BS1

Compound: Indeno(1,2,3-cd)pyrene
CAS Number: 193-39-5







AFTER
E
GLQ
9/29/11

MG 9/30/11

Sequence Name: C:\HPCHEM\1\SEQUENCE\100711B3.S
Comment: epa8270c
Operator: GLQ
Data Path: C:\HPCHEM\1\DATA\100711b3\
Pre-Seq Cmd:
Post-Seq Cmd:

7804
GLQ
10/8/11

Method Sections To Run
(X) Full Method
( ) Reprocessing Only

On A Barcode Mismatch
(X) Inject Anyway
( ) Don't Inject

IS 11H0531
10 µL

	Line	Type	Vial	DataFile	Method	Sample Name
	1	Sample	2	PRIME1	IXBN3	PRIME;;;;;;
	2	Sample	2	PRIME2	IXBN3	PRIME;;;;;;
	3	Sample	1	PRIME3	DFTPPBN3	PRIME;;;;;;
	4	Sample	1	PRIME4	DFTPPBN3	PRIME;;;;;;
	5	DFTPP	1	SEQ-TUN1	DFTPPBN3	DF1007B1;;;;;;11H0721
	6	DailyCal	2	SEQ-CCV1	IXBN3	CCV50PPM;;;;;;11J0076
	7	Sample	3	SEQ-CCV2	IXBN3	CCV_INT2_50PPM;;;;;;11J0075
	8	Sample	4	BLANK	IXBN3	BLANK;;;;;;
	9	Blank	5	J05016B1	IXBN3	1J05016-BLK1;;15;1000;UG/KG;;
	10	Spike	6	J05016L1	IXBN3	1J05016-BS1;;15;1000;UG/KG;;0
	11	Sample	7	1001401	IXBN3	1110014-01;;15;1000;UG/KG;;05
	12	Sample	8	1001402	IXBN3	1110014-02;;15;1000;UG/KG;;05
	13	Sample	9	1001403	IXBN3	1110014-03;;15;1000;UG/KG;;05
	14	Sample	10	1001404	IXBN3	1110014-04;;15;1000;UG/KG;;05
	15	Spike	11	1001403M	IXBN3	1J05016-MS1;;15;1000;UG/KG;;0
	16	Spike	12	1001403S	IXBN3	1J05016-MSD1;;15;1000;UG/KG;;
	17	Sample	13	0914504	IXBN3	1109145-04;;1000;1000;UG/L;;2
	18	Sample	14	0914505	IXBN3	1109145-05;;1000;1000;UG/L;;2
	19	Spike	15	0913705S	IXBN3	1I19024MSD1;;1000;1000;UG/L;;
	20	Sample	16	0914902	IXBN3	1109149-02;;100;1000;UG/L;;29
	21	Sample	17	0914903	IXBN3	1109149-03;;100;1000;UG/L;;29
	22	Sample	18	0914905	IXBN3	1109149-05;;100;1000;UG/L;;29
05:26	23	DFTPP	1	SEQ-TUN2	DFTPPBN3	DF1007B1;;;;;;11H0721
	24	Sample	2	SEQ-CCV3	IXBN3	CCV50PPM;;;;;;11J0076
	25	Sample	3	SEQ-CCV4	IXBN3	CCV_INT2_50PPM;;;;;;11J0075
	26	Sample	4	BLANK2	IXBN3	BLANK;;;;;;
	27	Blank	19	I19022B1	IXBN3	1I19022-BLK1;;1000;1000;UG/L;
	28	Sample	20	0914906	IXBN3	1109149-06;;100;1000;UG/L;;29
	29	Sample	21	0915401	IXBN3	1109154-01;;100;1000;UG/L;;29
	30	Spike	22	0914902M	IXBN3	1I29010-MS1;;100;1000;UG/L;;2
	31	Spike	23	0914902S	IXBN3	1I29010-MSD1;;100;1000;UG/L;;
	32	Sample	24	0919801	IXBN3	1109198-01;;1000;1000;UG/L;;2
	33	Sample	25	0919802	IXBN3	1109198-02;;1000;1000;UG/L;;2
	34	Sample	26	0919803	IXBN3	1109198-03;;1000;1000;UG/L;;2
	35	Sample	27	0919804	IXBN3	1109198-04;;1000;1000;UG/L;;2
	36	Sample	28	0919110	IXBN3	1109191-10;;1000;1000;UG/L;;2
	37	Sample	29	0911801	IXBN3	1109118-01;;1000;1000;UG/L;;2 -RR 5X
	38	Sample	30	0911928	IXBN3	1109119-28;;1000;1000;UG/L;;2
	39	Spike	31	0911928M	IXBN3	1I19022-MS1;;1000;1000;UG/L;;
16:36	40	Spike	32	0911928S	IXBN3	1I19022-MSD1;;1000;1000;UG/L;

Last Modified: Sat Oct 08 15:06:03 2011

Data File: \\ELABNSH05\TARGET\chem\bna3.i\100711b3E.b\SEQ-TUN2.D

Date : 08-OCT-2011 05:26

Client ID: 50ppm DFTPP

Instrument: bna3.i

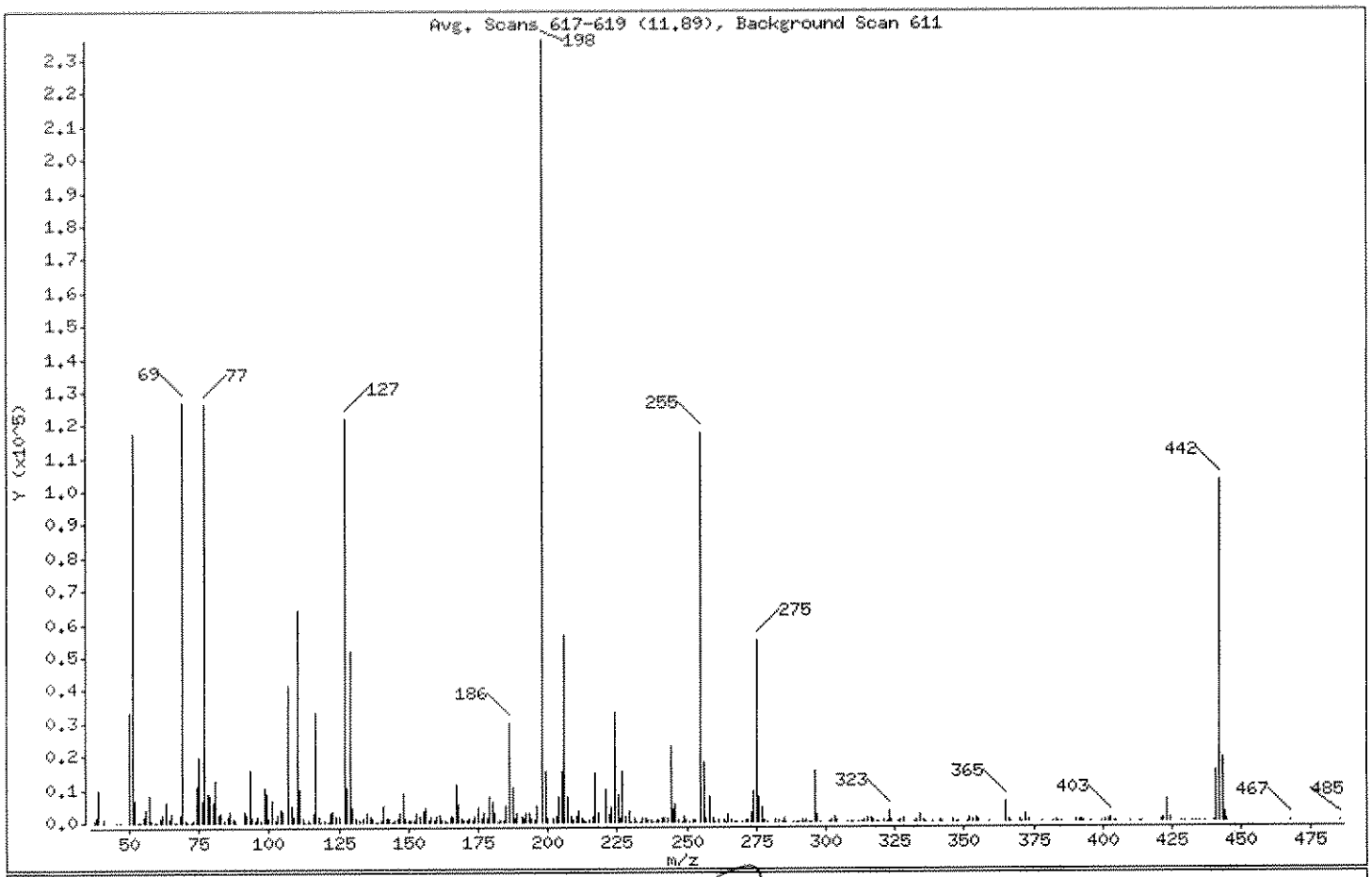
Sample Info: DF1007B1;;;;;;11H0721

Operator: GLQ

Column phase: DB5-MS

Column diameter: 0.25

1 dftpp



10-11-11

m/e	ION ABUNDANCE CRITERIA	% RELATIVE ABUNDANCE
198	Base Peak, 100% relative abundance	100.00
51	30.00 - 60.00% of mass 198	49.78
68	Less than 2.00% of mass 69	0.98 (1.82)
69	Mass 69 relative abundance	53.72
70	Less than 2.00% of mass 69	0.24 (0.45)
127	40.00 - 60.00% of mass 198	51.58
197	Less than 1.00% of mass 198	0.00
199	5.00 - 9.00% of mass 198	6.38
275	10.00 - 30.00% of mass 198	23.39
365	Greater than 1.00% of mass 198	2.48
441	Present, but less than mass 443	6.50
442	Greater than 40.00% of mass 198	43.52
443	17.00 - 23.00% of mass 442	8.02 (18.43)

GLQ
10/8/11

Data File: \\ELABNSH05\TARGET\chem\bna3.i\100711b3E.b\SEQ-TUN2.D

Date : 08-OCT-2011 05:26

Client ID: 50ppm DFTPP

Instrument: bna3.i

Sample Info: DF1007B1;;;;;;11H0721

Operator: GLQ

Column phase: DB5-MS

Column diameter: 0.25

Data File: SEQ-TUN2.D

Spectrum: Avg. Scans 617-619 (11.89), Background Scan 611

Location of Maximum: 198.00

Number of points: 324

m/z	Y	m/z	Y	m/z	Y	m/z	Y
37.20	295	130.10	4247	214.90	728	309.10	149
38.10	1389	131.00	1294	216.00	1566	309.90	89
39.10	9813	132.60	660	217.00	14845	312.00	148
41.00	933	134.00	1167	218.00	2472	313.10	186
45.30	176	135.00	2712	221.00	9720	314.00	682
46.70	53	136.10	1854	222.10	2001	315.00	1299
50.00	33088	137.00	1288	223.00	4191	316.10	887
51.00	117456	138.10	200	224.10	32896	317.00	632
52.00	6404	139.00	197	225.10	8307	318.20	94
53.20	224	140.10	753	226.10	1119	319.00	84
54.10	183	141.00	5112	227.00	15355	321.00	680
55.00	1798	142.00	1207	228.00	1859	322.10	219
56.00	3818	143.10	1158	229.00	3269	323.10	3480
57.00	8274	144.30	249	230.10	223	323.90	648
57.80	603	145.00	379	231.10	928	326.00	84
59.20	58	146.00	974	232.10	163	327.00	582
60.00	2	147.00	2685	233.00	118	328.10	857
61.00	1353	148.00	8462	233.90	1184	332.00	261
62.00	2097	149.10	1348	235.00	1282	332.90	561
63.10	5914	150.00	443	236.10	349	334.00	2270
64.10	978	150.90	761	237.00	409	335.10	519
65.00	2543	152.00	697	237.90	148	336.00	149
66.10	224	153.00	2678	239.00	557	338.70	135
67.00	194	154.00	1797	240.10	551	341.10	419
68.00	2309	155.10	3136	240.90	832	342.10	157
69.00	126768	156.00	4203	242.00	1278	346.00	628
70.10	570	157.10	670	243.10	1116	346.90	207
71.10	121	157.90	1404	244.10	23104	347.80	51
72.00	56	159.00	606	245.00	3802	351.10	125
73.00	491	160.10	1509	246.00	5656	352.00	1006
74.10	11070	161.00	2272	247.00	589	353.00	754
75.00	19776	162.10	537	248.20	262	354.10	1232
76.10	6325	163.20	365	249.00	1388	354.90	303
77.00	126216	164.10	82	249.90	332	358.90	101
78.10	8635	165.00	1534	251.10	137	365.00	5854

Data File: \\ELABNSH05\TARGET\chem\bna3.i\100711b3E.b\SEQ-TUN2.D

Date : 08-OCT-2011 05:26

Client ID: 50ppm DFTPP | Instrument: bna3.i

Sample Info: DF1007B1;;;;;;11H0721

Operator: GLQ

Column phase: DB5-MS | Column diameter: 0.25

Data File: SEQ-TUN2.D

Spectrum: Avg. Scans 617-619 (11.89), Background Scan 611

Location of Maximum: 198.00

Number of points: 324

m/z	Y	m/z	Y	m/z	Y	m/z	Y
79.00	8352	166.00	1812	252.00	380	366.00	411
79.90	5870	167.10	11428	253.00	735	366.90	147
81.00	12302	168.00	5251	255.00	117696	370.10	412
82.00	2140	169.10	1160	256.00	18000	371.00	175
83.00	2530	169.90	555	257.10	1005	372.10	2174
84.00	441	171.00	540	258.00	7400	373.10	438
85.00	1526	171.90	1190	259.60	954	378.10	121
86.00	3275	173.10	636	260.20	146	382.10	74
87.20	965	174.00	1666	261.20	514	383.00	329
87.90	369	175.00	4339	263.60	310	384.10	60
91.00	3248	176.00	973	264.00	40	385.40	121
92.10	2400	177.00	2833	265.00	1983	390.10	388
93.00	15561	178.00	940	265.80	477	391.50	301
94.00	1505	179.00	7834	267.30	122	392.10	286
95.10	310	180.00	6175	268.00	262	392.70	86
96.10	1368	181.00	2598	269.90	269	395.50	250
97.00	501	182.10	133	271.20	290	399.50	96
98.10	10281	183.10	466	272.10	431	401.00	412
99.00	8904	184.00	782	273.00	2725	402.10	636
99.90	1170	185.00	4786	274.00	9471	402.80	1223
101.00	6671	186.00	29816	275.00	55184	404.00	158
102.00	633	187.10	10247	276.10	7515	405.00	60
102.90	2293	188.10	927	277.00	4540	410.20	226
104.00	3586	189.00	2653	277.90	535	413.30	61
105.00	3254	190.50	1693	279.10	135	414.20	77
107.00	41320	191.10	1308	281.40	275	420.90	712
108.00	5000	192.00	2976	282.00	315	422.00	981
109.10	1788	193.10	2773	283.10	453	423.00	6448
110.00	63936	194.10	987	284.20	198	424.10	1352
111.00	9866	195.00	308	285.00	1087	428.60	62
112.10	826	196.10	4902	285.80	145	429.50	131
113.00	93	198.00	235968	288.00	179	432.30	95
114.00	302	199.00	15053	289.40	264	433.40	183
115.00	3	200.00	841	290.00	194	435.20	210
116.00	2975	201.50	1233	291.40	306	437.00	88

Data File: \\ELABNSHO5\TARGET\chem\bna3.i\100711b3E.b\SEQ-TUN2.D

Date : 08-OCT-2011 05:26

Client ID: 50ppm DFTPP

Instrument: bna3.i

Sample Info: DF1007B1;;;;;;11H0721

Operator: GLQ

Column phase: DB5-MS

Column diameter: 0.25

Data File: SEQ-TUN2.D

Spectrum: Avg. Scans 617-619 (11.89), Background Scan 611

Location of Maximum: 198.00

Number of points: 324

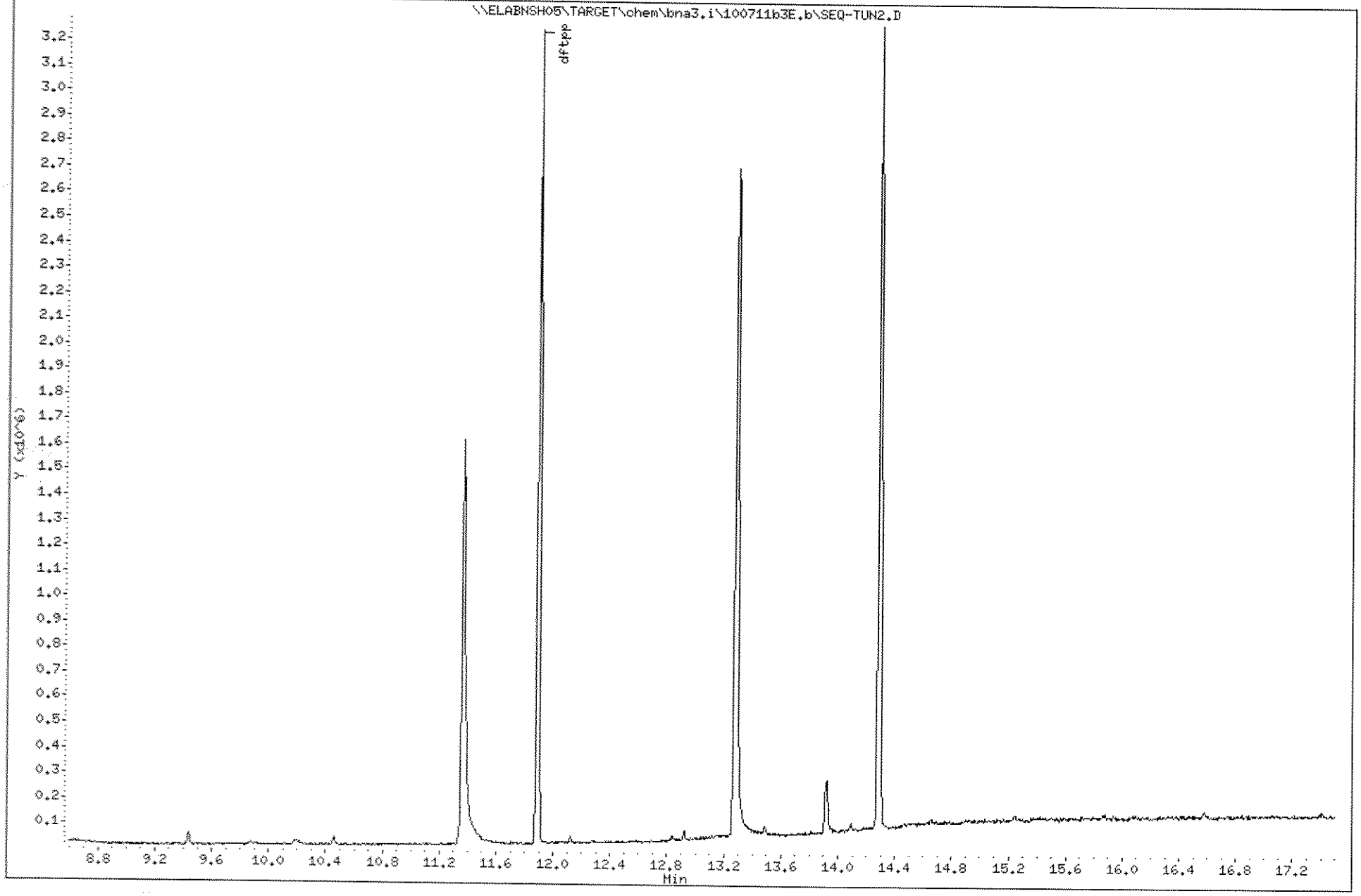
m/z	Y	m/z	Y	m/z	Y	m/z	Y
117.00	33152	203.00	1525	292.20	61	439.90	59
118.00	1769	204.10	7584	293.00	713	441.10	15339
119.00	89	205.10	15307	294.00	236	442.10	102688
120.00	686	206.00	56600	294.70	5	443.10	18928
121.10	244	207.00	7769	296.00	15192	444.10	2842
122.00	2592	208.10	1762	297.00	2029	445.00	296
122.90	3246	209.00	628	298.10	33	467.30	54
124.00	1369	210.40	1407	301.20	178	485.60	80
125.00	1864	211.10	3098	302.00	377		
127.00	121720	212.00	884	303.00	1634		
128.00	10173	212.80	276	304.10	629		
129.00	51616	213.90	119	308.10	227		

Data File: \\ELABNSH05\TARGET\chem\bna3.i\100711b3E.b\SEQ-TUN2.D
Date : 08-OCT-2011 05:26
Client ID: 50ppm DFTPP
Sample Info: DF1007B1;;;;;;11H0721

Instrument: bna3.i

Operator: GLQ
Column diameter: 0.25

Column phase: DB5-MS

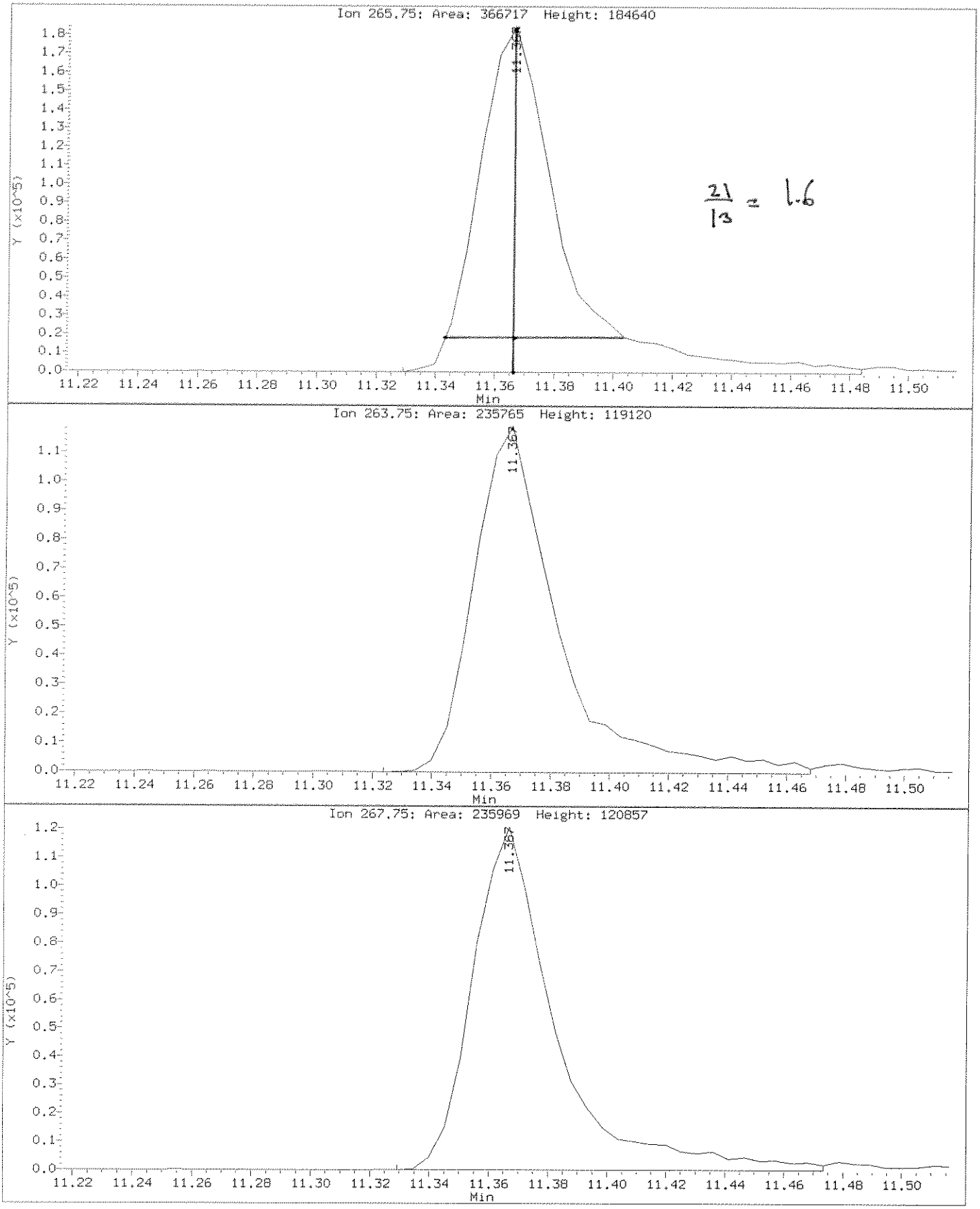


712

1109191

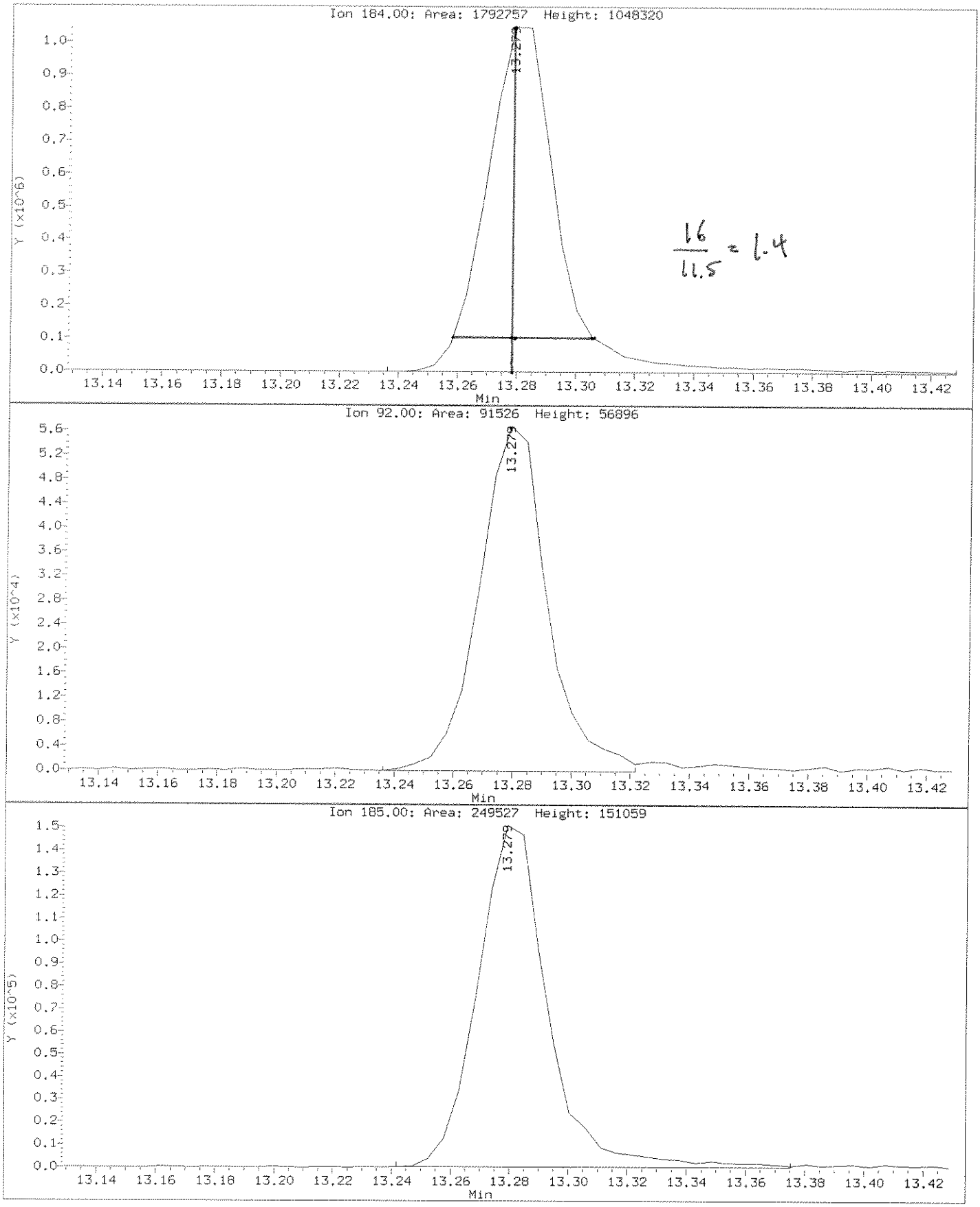
Data File: \\ELABNSHO5\TARGET\chem\bna3.i\100711b3E.b\SEQ-TUN2ex.D
Injection Date: 08-OCT-2011 05:26
Instrument: bna3.i
Client Sample ID: 50ppm DFTPP

Compound: Pentachlorophenol
CAS Number: 87-86-5



Data File: \\ELABNSHO5\TARGET\chem\bna3.i\100711b3E.b\SEQ-TUN2ex.D
Injection Date: 08-OCT-2011 05:26
Instrument: bna3.i
Client Sample ID: 50ppm DFTPP

Compound: Benzidine
CAS Number: 92-87-5



Data File: \\ELABNSH05\TARGET\chem\bna3.i\100711b3E.b\SEQ-TUN2ex.D
Report Date: 08-Oct-2011 16:01

Laboratory Name

Data file : \\ELABNSH05\TARGET\chem\bna3.i\100711b3E.b\SEQ-TUN2ex.D
Lab Smp Id: SEQ-TUN1 Client Smp ID: 50ppm DFTPP
Inj Date : 08-OCT-2011 05:26 MS Autotune Date: 28-JUL-1998 06:19
Operator : GLQ Inst ID: bna3.i
Smp Info : DF1007B1;;;;;;11H0721
Misc Info : ;;;;;;;all.sub;
Comment :
Method : \\ELABNSH05\TARGET\chem\bna3.i\100711b3E.b\dftppbn3ex.m
Meth Date : 08-Oct-2011 15:59 gquick Quant Type: ESTD
Cal Date : Cal File:
Als bottle: 1 QC Sample: DFTPP
Dil Factor: 1.00000
Integrator: HP RTE Compound Sublist: dftppex.sub
Target Version: 4.04

Compounds	QUANT SIG MASS	RT	EXP RT	DLT RT	RESPONSE	CONCENTRATIONS ON-COLUMN (ng/ul)	FINAL (ng/ul)
1 Pentachlorophenol	266	11.366	11.366	0.000	366717		
2 Benzidine	184	13.279	13.279	0.000	1792757		
4 4,4'-DDD	235	13.920	13.920	0.000	59947		
5 4,4'-DDT	235	14.288	14.288	0.000	761218		

DDT % BREAKDOWN = $\frac{59947}{821165} \times 100\% = 7.3\%$

Data File: \\ELABNSH05\TARGET\chem\bna3.i\100711b3E.b\SEQ-CCV3.D
Report Date: 08-Oct-2011 16:17

Laboratory Name

Data file : \\ELABNSH05\TARGET\chem\bna3.i\100711b3E.b\SEQ-CCV3.D
Lab Smp Id: SEQ-CCV1 Client Smp ID: CCV50PPM
Inj Date : 08-OCT-2011 05:54 MS Autotune Date: 28-JUL-1998 06:19
Operator : GLQ Inst ID: bna3.i
Smp Info : CCV50PPM;;;;;;11J0076
Misc Info : ;0;CCV;;;;ppbnax.sub;
Comment :
Method : \\ELABNSH05\TARGET\chem\bna3.i\100711b3E.b\IXBN3.m
Meth Date : 08-Oct-2011 16:15 gquick Quant Type: ISTD
Cal Date : 30-APR-2011 01:58 Cal File: SEQ-CALG.D
Als bottle: 2
Dil Factor: 1.00000
Integrator: HP RTE Compound Sublist: ppbnax.sub
Target Version: 4.04
Processing Host: TARGET17_VM

10-11-11

GLQ 10/8/11

		Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS ON-COLUMN (ng/ul)	FINAL (ng/ul)
*	1	1,4-Dichlorobenzene-d4	152	6.866	6.866	(1.000)	609244	40.0000	
$	2	2-Fluorophenol	112	5.349	5.349	(0.779)	1819542	104.592	104.6(AR)
$	3	Phenol-d6	99	6.428	6.428	(0.936)	2461564	102.744	102.7(AR)
	4	Pyridine	79	4.120	4.120	(0.600)	893283	39.5524	39.55
	5	1,4-Dioxane	88	3.826	3.826	(0.557)	311301	37.8083	37.81
	6	N-Nitroso-di-methylamine	42	4.066	4.066	(0.592)	581960	55.8099	55.81
	7	Aniline	93	6.470	6.470	(0.942)	1566357	48.9852	48.98
	10	Phenol	94	6.444	6.444	(0.939)	1449844	56.4021	56.40
	11	bis(2-Chloroethyl)ether	93	6.529	6.529	(0.951)	1053422	53.2904	53.29
	12	2-Chlorophenol	128	6.620	6.620	(0.964)	981722	49.0151	49.02
	13	1,3-Dichlorobenzene	146	6.796	6.796	(0.990)	1088898	50.0730	50.07
	14	1,4-Dichlorobenzene	146	6.887	6.887	(1.003)	1117422	50.7728	50.77
	15	Benzyl alcohol	108	7.053	7.053	(1.027)	669582	50.7190	50.72
	16	1,2-Dichlorobenzene	146	7.074	7.074	(1.030)	1043047	50.5859	50.58
	17	2-Methylphenol	108	7.192	7.192	(1.047)	934346	50.7553	50.76
	18	2,2'-Oxybis-1-chloropropane	45	7.186	7.186	(1.047)	1325108	44.6816	44.68(Q)
	19	3-Methylphenol	108	7.389	7.389	(1.076)	973904	50.4110	50.41
	20	4-Methylphenol	108	7.389	7.389	(1.076)	973904	50.4110	50.41
	196	3-Methylphenol/4-Methylphenol	108	7.389	7.389	(1.076)	965913	49.9974	50.00
	21	N-Nitroso-di-n-propylamine	70	7.373	7.373	(1.074)	865110	54.9331	54.93
	22	Hexachloroethane	117	7.491	7.491	(1.091)	428867	51.5265	51.53
	32	Benzaldehyde	106	6.342	6.342	(0.924)	486461	31.6192	31.62
*	33	Naphthalene-d8	136	8.474	8.474	(1.000)	2064318	40.0000	
$	34	Nitrobenzene-d5	82	7.560	7.560	(0.892)	1207699	57.4198	57.42(R)
	35	Nitrobenzene	77	7.587	7.587	(0.895)	1209822	57.0666	57.07
	39	Isophorone	82	7.907	7.907	(0.933)	2018369	52.5472	52.55

Data File: \\ELABNSH05\TARGET\chem\bna3.i\100711b3E.b\SEQ-CCV3.D
Report Date: 08-Oct-2011 16:17

Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS ON-COLUMN (ng/ul)	FINAL (ng/ul)
40 2-Nitrophenol	139	7.982	7.982	(0.942)	521659	52.0648	52.06
42 2,4-Dimethylphenol	107	8.057	8.057	(0.951)	1076658	57.3673	57.37
43 Benzoic acid	105	8.281	8.281	(0.977)	826132	59.7442	59.74
44 bis(2-Chloroethoxy)methane	93	8.153	8.153	(0.962)	1136346	51.5679	51.57
47 2,4-Dichlorophenol	162	8.319	8.319	(0.982)	837245	53.2479	53.25
62 2,6-Dichlorophenol	162	8.591	8.591	(1.014)	840539	54.5669	54.57
50 1,2,4-Trichlorobenzene	180	8.394	8.394	(0.991)	985385	55.8014	55.80
51 Naphthalene	128	8.500	8.500	(1.003)	2737317	53.2590	53.26
52 4-Chloroaniline	127	8.586	8.586	(1.013)	1176085	53.9339	53.93
53 Hexachlorobutadiene	225	8.634	8.634	(1.019)	595699	61.7733	61.77
54 4-Chloro-3-methylphenol	107	9.238	9.238	(1.090)	919111	57.2004	57.20
55 2-Methylnaphthalene	141	9.382	9.382	(1.107)	1622974	52.6400	52.64
56 1-Methylnaphthalene	141	9.510	9.510	(1.122)	1588722	52.4197	52.42
57 Acetophenone	105	7.368	7.368	(1.073)	1450024	52.8314	52.83
67 1,2,4,5-Tetrachlorobenzene	216	9.590	9.590	(1.132)	947527	54.7600	54.76
68 Caprolactam	113	9.125	9.125	(1.077)	272403	46.7761	46.78
* 69 Acenaphthene-d10	164	10.701	10.701	(1.000)	1231472	40.0000	
70 Hexachlorocyclopentadiene	237	9.563	9.563	(0.894)	696063	60.2951	60.30
71 2,4,6-Trichlorophenol	196	9.761	9.761	(0.912)	640633	54.4724	54.47
72 2,4,5-Trichlorophenol	196	9.847	9.847	(0.920)	702043	55.0455	55.04
73 2-Chloronaphthalene	162	10.007	10.007	(0.935)	1930245	57.6385	57.64
$ 74 2-Fluorobiphenyl	172	9.841	9.841	(0.920)	2318266	59.5066	59.51(R)
75 2-Nitroaniline	65	10.162	10.162	(0.950)	626157	54.9654	54.96
76 Dimethylphthalate	163	10.365	10.365	(0.969)	2054609	53.6279	53.63
77 Acenaphthylene	152	10.530	10.530	(0.984)	2958384	55.6991	55.70
78 2,6-Dinitrotoluene	165	10.456	10.456	(0.977)	482907	52.4273	52.43
79 3-Nitroaniline	138	10.691	10.691	(0.999)	509379	51.2111	51.21
80 Acenaphthene	153	10.749	10.749	(1.004)	1867137	54.6197	54.62
81 2,4-Dinitrophenol	184	10.819	10.819	(1.011)	358059	62.7173	62.72
83 4-Nitrophenol	65	10.963	10.963	(1.024)	516980	61.6982	61.70
84 Dibenzofuran	168	10.963	10.963	(1.024)	2741944	58.0167	58.02
85 2,4-Dinitrotoluene	165	10.968	10.968	(1.025)	695809	57.5110	57.51
86 Diethylphthalate	149	11.246	11.246	(1.051)	2166387	58.8981	58.90
87 4-Chlorophenyl-phenylether	204	11.385	11.385	(1.064)	1136319	59.2113	59.21
88 Fluorene	166	11.401	11.401	(1.065)	2228134	54.1099	54.11
89 4-Nitroaniline	138	11.481	11.481	(1.073)	490036	48.6331	48.63
96 2,3,4,6-Tetrachlorophenol	232	11.145	11.145	(1.041)	604028	58.7291	58.73
100 1,1'-Biphenyl	154	9.975	9.975	(0.932)	2276308	51.1874	51.19
* 102 Phenanthrene-d10	188	12.603	12.603	(1.000)	2182072	40.0000	
103 1,2-Diphenylhydrazine	77	11.588	11.588	(0.919)	2378578	51.2539	51.25
104 Carbazole	167	12.940	12.940	(1.027)	2805890	49.2496	49.25
105 4,6-Dinitro-2-methylphenol	198	11.492	11.492	(0.912)	447324	56.3903	56.39
106 N-Nitrosodiphenylamine	169	11.551	11.551	(0.917)	1922509	52.3740	52.37
$ 107 2,4,6-Tribromophenol	330	11.722	11.722	(0.930)	641952	107.107	107.1(AR)
108 4-Bromophenyl-phenylether	248	12.005	12.005	(0.953)	665893	53.4258	53.42
109 Hexachlorobenzene	284	12.085	12.085	(0.959)	677429	50.8184	50.82
110 Pentachlorophenol	266	12.368	12.368	(0.981)	490156	55.3582	55.36

Data File: \\ELABNSH05\TARGET\chem\bna3.i\100711b3E.b\SEQ-CCV3.D
Report Date: 08-Oct-2011 16:17

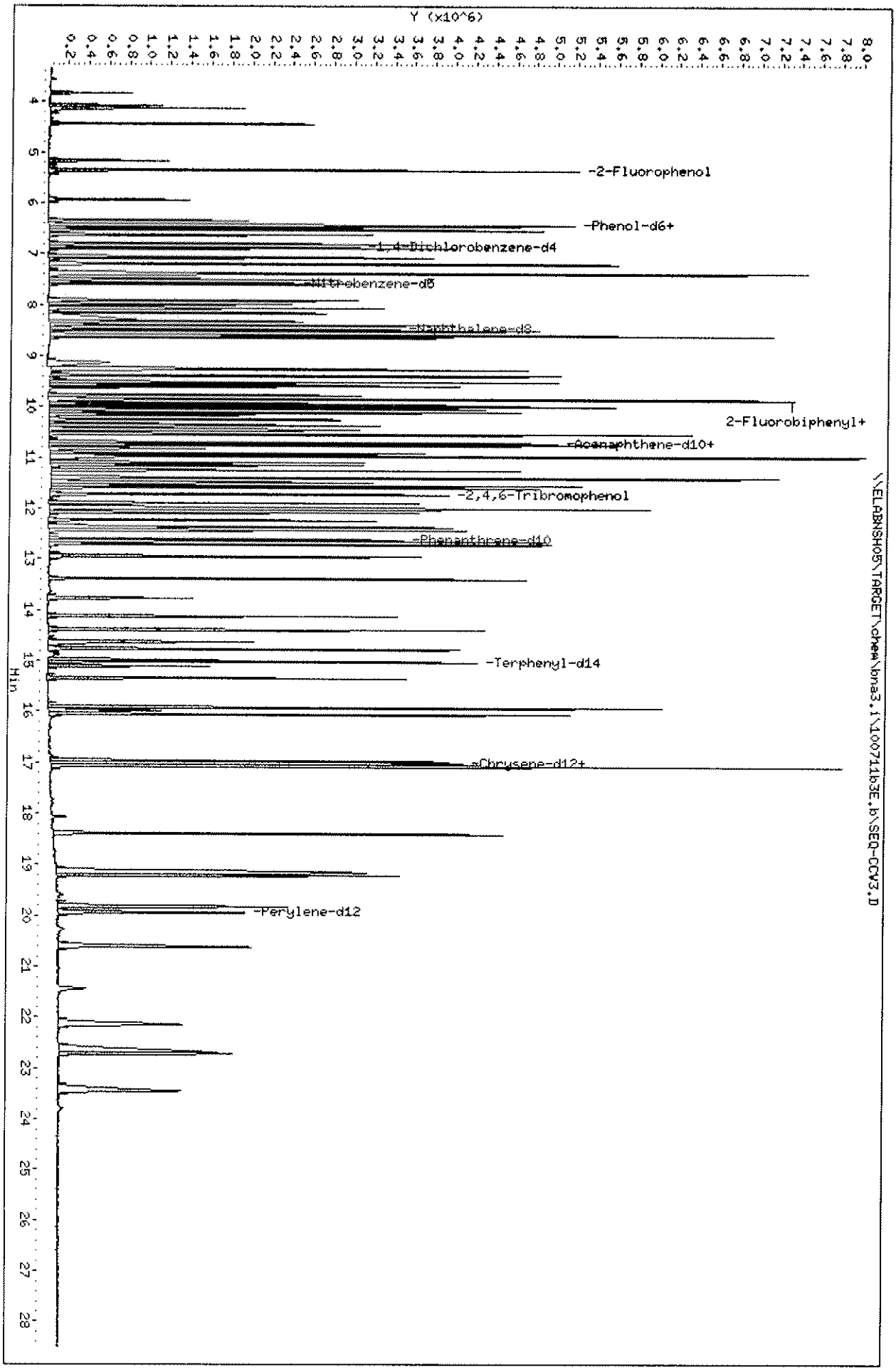
Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS ON-COLUMN (ng/ul)	FINAL (ng/ul)
111 Phenanthrene	178	12.641	12.641	(1.003)	3027623	51.5863	51.59
112 Anthracene	178	12.705	12.705	(1.008)	3025220	50.7526	50.75
115 Di-n-butylphthalate	149	13.383	13.383	(1.062)	3373228	52.3136	52.31
116 Fluoranthene	202	14.387	14.387	(1.142)	3447411	51.2184	51.22
129 Atrazine	200	12.235	12.235	(0.971)	566569	44.2955	44.30
* 132 Chrysene-d12	240	17.016	17.016	(1.000)	2049425	40.0000	
133 Benzidine	184	14.622	14.622	(0.859)	1811233	55.1243	55.12
134 Pyrene	202	14.767	14.767	(0.868)	3342745	56.0616	56.06
$ 135 Terphenyl-d14	244	15.012	15.012	(0.882)	2160340	56.5045	56.50(R)
136 Butylbenzylphthalate	149	15.910	15.910	(0.935)	1537375	58.4933	58.49
137 3,3'-Dichlorobenzidine	252	16.962	16.962	(0.997)	1119715	53.7325	53.73
138 Benzo(a)anthracene	228	16.994	16.994	(0.999)	3120003	54.4048	54.40
139 Chrysene	228	17.069	17.069	(1.003)	2873492	53.5221	53.52
140 Bis(2-ethylhexyl)phthalate	149	17.058	17.058	(1.002)	2060630	59.2054	59.20
* 154 Perylene-d12	264	19.938	19.938	(1.000)	1729844	40.0000	
155 Di-n-octylphthalate	149	18.389	18.389	(0.922)	3401584	65.3106	65.31
156 Benzo(b)fluoranthene	252	19.153	19.153	(0.961)	2905053	61.4200	61.42
157 Benzo(k)fluoranthene	252	19.206	19.206	(0.963)	2580909	53.8756	53.88
158 Benzo(a)pyrene	252	19.826	19.826	(0.994)	2442456	54.0015	54.00
159 Indeno(1,2,3-cd)pyrene	276	22.652	22.652	(1.136)	2779237	61.9125	61.91
160 Dibenz(a,h)anthracene	278	22.710	22.710	(1.139)	2296720	52.8714	52.87
161 Benzo(g,h,i)perylene	276	23.442	23.442	(1.176)	2272034	50.8521	50.85

QC Flag Legend

A - Target compound detected but, quantitated amount exceeded maximum amount.
Q - Qualifier signal failed the ratio test.
R - Spike/Surrogate failed recovery limits.

Data File: \\ELABNSH05\TARGET\chem\bna3.i\100711b3E.b\SEQ-CCV3.D
Date : 08-OCT-2011 05:54
Client ID: CCV50PPM
Sample Info: CCV50PPM;;;;;;11.30076
Column phase: fused silica

Instrument: bna3.i
Operator: GLQ
Column diameter: 0.25



Data File: \\ELABNSH05\TARGET\chem\bna3.i\100711b3E.b\SEQ-CCV4.D
Report Date: 08-Oct-2011 16:27

Laboratory Name

Data file : \\ELABNSH05\TARGET\chem\bna3.i\100711b3E.b\SEQ-CCV4.D
Lab Smp Id: SEQ-CCV2 Client Smp ID: CCV_INT2_50PPM
Inj Date : 08-OCT-2011 06:33 MS Autotune Date: 28-JUL-1998 06:19
Operator : GLQ Inst ID: bna3.i
Smp Info : CCV_INT2_50PPM;;;;;;11J0075
Misc Info : ;0;CCV;;;;ppbnax.sub;
Comment :
Method : \\ELABNSH05\TARGET\chem\bna3.i\100711b3E.b\IXBN3.m
Meth Date : 08-Oct-2011 16:19 gquick Quant Type: ISTD
Cal Date : 30-APR-2011 01:58 Cal File: SEQ-CALG.D
Als bottle: 3
Dil Factor: 1.00000
Integrator: HP RTE Compound Sublist: ppbnax.sub
Target Version: 4.04
Processing Host: TARGET17_VM

10-11-11

Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS ON-COLUMN (ng/ul)	FINAL (ng/ul)
* 1 1,4-Dichlorobenzene-d4	152	6.868	6.868	(1.000)	440370	40.0000	
5 1,4-Dioxane	88	3.839	3.839	(0.559)	218217	36.6664	36.67
32 Benzaldehyde	106	6.350	6.350	(0.925)	527602	47.4441	47.44
* 33 Naphthalene-d8	136	8.476	8.476	(1.000)	1531606	40.0000	
62 2,6-Dichlorophenol	162	8.588	8.588	(1.013)	592744	51.8642	51.86
57 Acetophenone	105	7.365	7.365	(1.072)	985718	49.6871	49.69
67 1,2,4,5-Tetrachlorobenzene	216	9.593	9.593	(1.132)	706324	55.0181	55.02
68 Caprolactam	113	9.048	9.048	(1.067)	198762	46.0018	46.00
* 69 Acenaphthene-d10	164	10.704	10.704	(1.000)	892896	40.0000	
73 2-Chloronaphthalene	162	10.036	10.036	(0.938)	1229000	50.6146	50.61
100 1,1'-Biphenyl	154	9.977	9.977	(0.932)	1698319	52.6714	52.67
* 102 Phenanthrene-d10	188	12.600	12.600	(1.000)	1653763	40.0000	
129 Atrazine	200	12.226	12.226	(0.970)	475333	49.0344	49.03
* 132 Chrysene-d12	240	17.002	17.002	(1.000)	1485852	40.0000	
133 Benzidine	184	14.619	14.619	(0.860)	1700033	71.3646	71.36
137 3,3'-Dichlorobenzidine	252	16.959	16.959	(0.997)	858450	56.8200	56.82
* 154 Perylene-d12	264	19.930	19.930	(1.000)	1268957	40.0000	

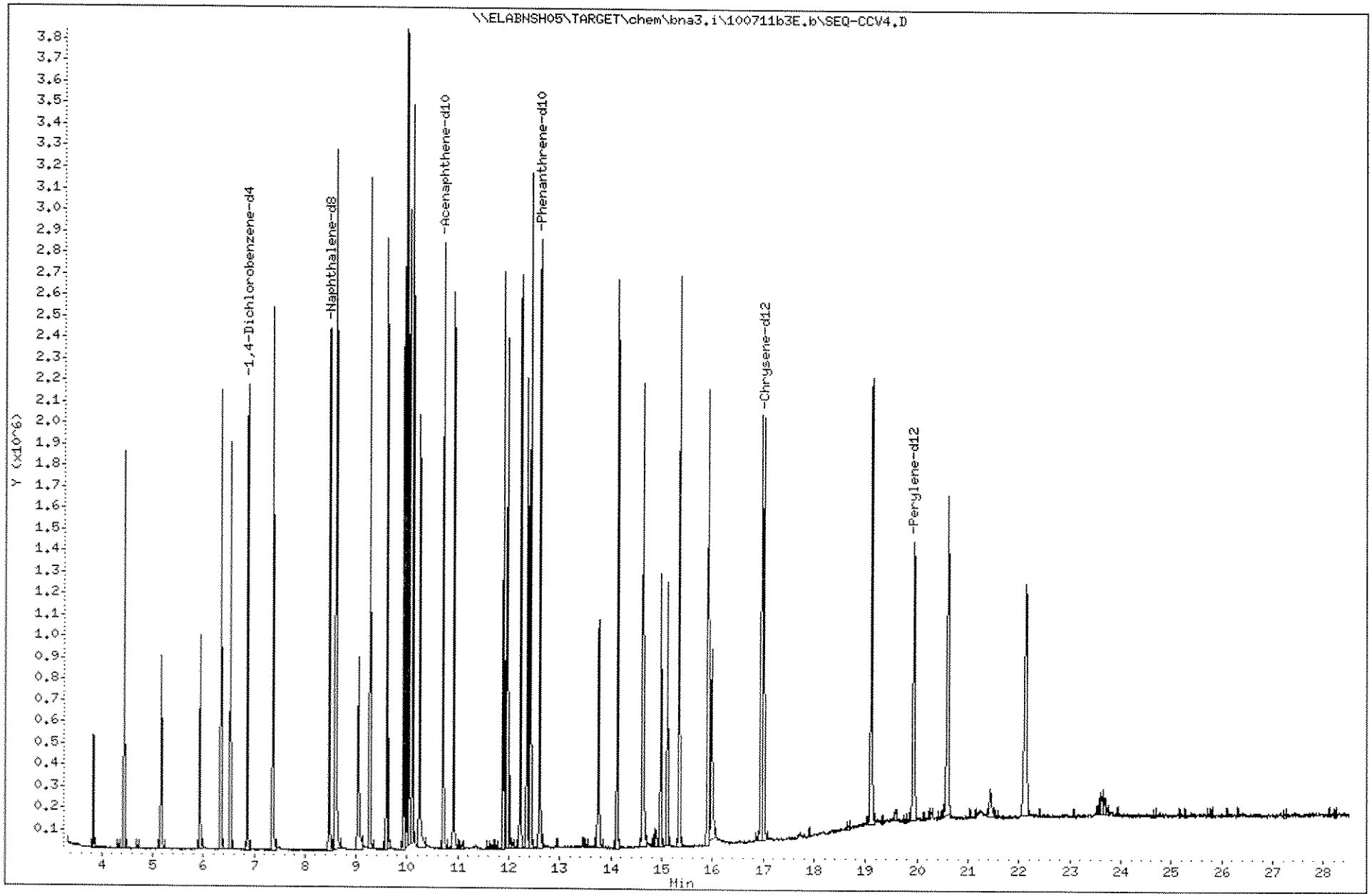
GLQ
10/8/11

Data File: \\ELABNSH05\TARGET\chem\bna3.i\100711b3E.b\SEQ-CCV4.D
Date : 08-OCT-2011 06:33
Client ID: CCV_INT2_50PPM
Sample Info: CCV_INT2_50PPM;;;;;;11J0075

Instrument: bna3.i

Operator: GLQ
Column diameter: 0.25

Column phase: fused silica



721

1109191

Data File: \\ELABNSH05\TARGET\chem\bna3.i\100711b3E.b\0919110.D
Report Date: 10-Oct-2011 12:26

Laboratory Name

Data file : \\ELABNSH05\TARGET\chem\bna3.i\100711b3E.b\0919110.D
Lab Smp Id: 1109191-10
Inj Date : 08-OCT-2011 13:56 MS Autotune Date: 28-JUL-1998 06:19
Operator : GLQ Inst ID: bna3.i
Smp Info : 1109191-10;;1000;1000;UG/L;;27-SEP-2011
Misc Info : ;0;;;;1I26926;ppbnax.sub;
Comment :
Method : \\ELABNSH05\TARGET\chem\bna3.i\100711b3E.b\IXBN3.m
Meth Date : 10-Oct-2011 12:25 gquick Quant Type: ISTD
Cal Date : 30-APR-2011 01:58 Cal File: SEQ-CALG.D
Als bottle: 28
Dil Factor: 1.00000
Integrator: HP RTE Compound Sublist: ppbnax.sub
Target Version: 4.04
Processing Host: TARGET17_VM

Concentration Formula: Amt * DF * Uf * Vt* Vi/(Amt * Vi)

Name	Value	Description
DF	1.000	Dilution Factor
Uf	0.000	ng unit correction factor
Vt	1000.000	Volume of final extract (uL)
Vi	0.500	Volume injected (uL)
Amt	1000.000	Volume of initial extraction

10-11-11

GLQ 10/10/11

Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS ON-COLUMN (ng/ul)	FINAL (ug/L)
* 1 1,4-Dichlorobenzene-d4	152	6.853	6.866	(1.000)	490073	40.0000	
$ 2 2-Fluorophenol	112	5.330	5.349	(0.778)	391802	27.9985	28.00
$ 3 Phenol-d6	99	6.393	6.428	(0.933)	273178	14.1749	14.17
32 Benzaldehyde	106	6.329	6.342	(0.924)	21555	1.74173	1.742(a)
* 33 Naphthalene-d8	136	8.461	8.474	(1.000)	1707680	40.0000	
$ 34 Nitrobenzene-d5	82	7.542	7.560	(0.891)	665073	38.2246	38.22
57 Acetophenone	105	7.344	7.368	(1.072)	21408	0.96967	0.9697(a)
* 69 Acenaphthene-d10	164	10.688	10.701	(1.000)	1065743	40.0000	
$ 74 2-Fluorobiphenyl	172	9.828	9.841	(0.920)	939697	27.8716	27.87
* 102 Phenanthrene-d10	188	12.580	12.603	(1.000)	1938868	40.0000	
$ 107 2,4,6-Tribromophenol	330	11.693	11.722	(0.929)	425461	79.8907	79.89
* 132 Chrysene-d12	240	16.971	17.016	(1.000)	1834864	40.0000	
$ 135 Terphenyl-d14	244	14.989	15.012	(0.883)	1717029	50.1611	50.16
* 154 Perylene-d12	264	19.893	19.938	(1.000)	1521252	40.0000	

Data File: \\ELABNSH05\TARGET\chem\bna3.i\100711b3E.b\0919110.D
Report Date: 10-Oct-2011 12:26

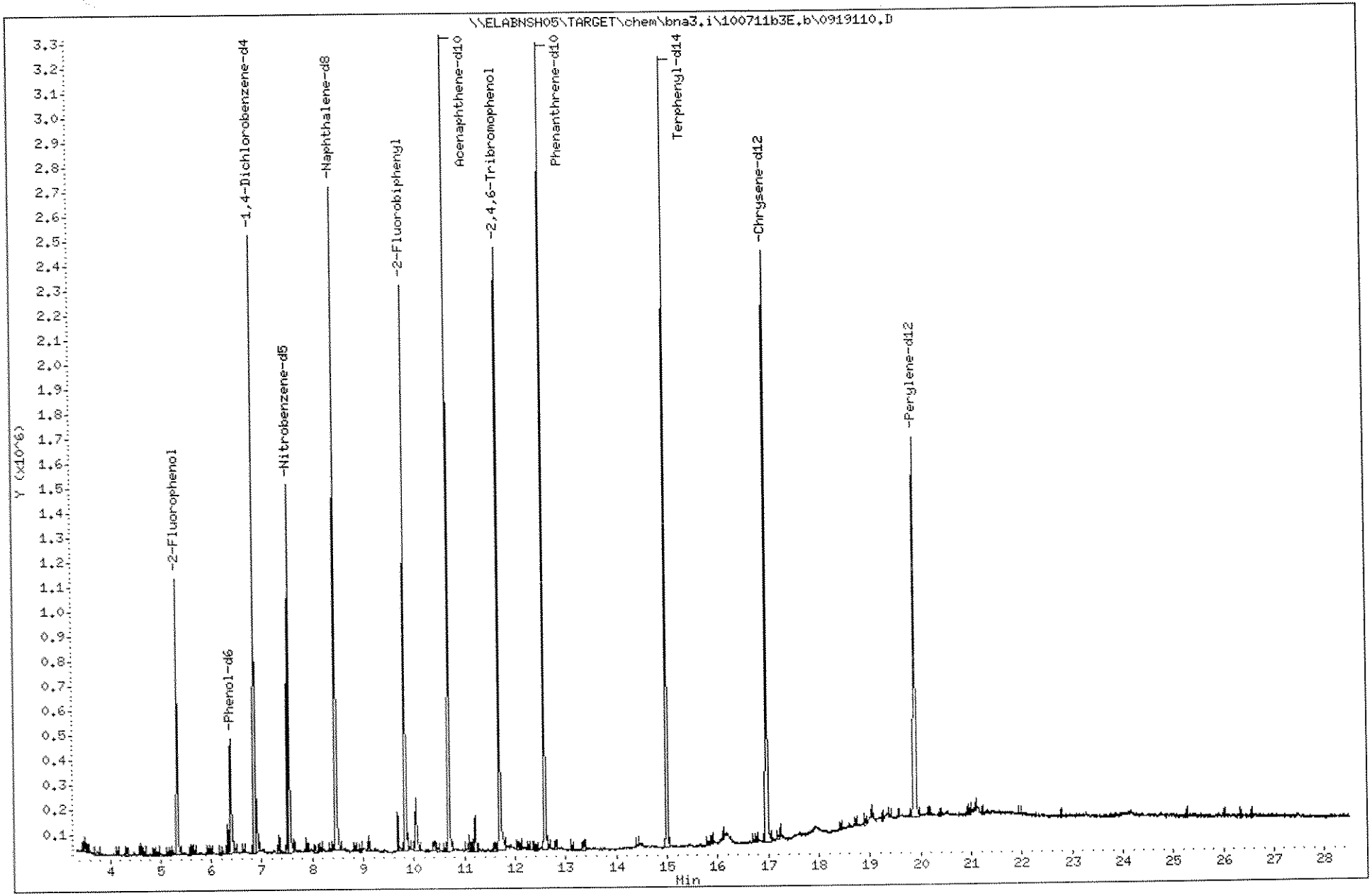
QC Flag Legend

a - Target compound detected but, quantitated amount
Below Limit Of Quantitation(BLOQ).

Data File: \\ELABNSH05\TARGET\chem\bna3.i\100711b3E.b\0919110.D
Date : 08-OCT-2011 13:56
Client ID:
Sample Info: 1109191-10;;1000;1000;UG/L;;27-SEP-2011
Volume Injected (uL): 0.5
Column phase: fused silica

Instrument: bna3.i

Operator: GLQ
Column diameter: 0.25



Data File: \\ELABNSH05\TARGET\chem\bna3.i\100711b3E.b\0919110.D

Date : 08-OCT-2011 13:56

Client ID:

Instrument: bna3.i

Sample Info: 1109191-10;;1000;1000;UG/L;;27-SEP-2011

Volume Injected (uL): 0.5

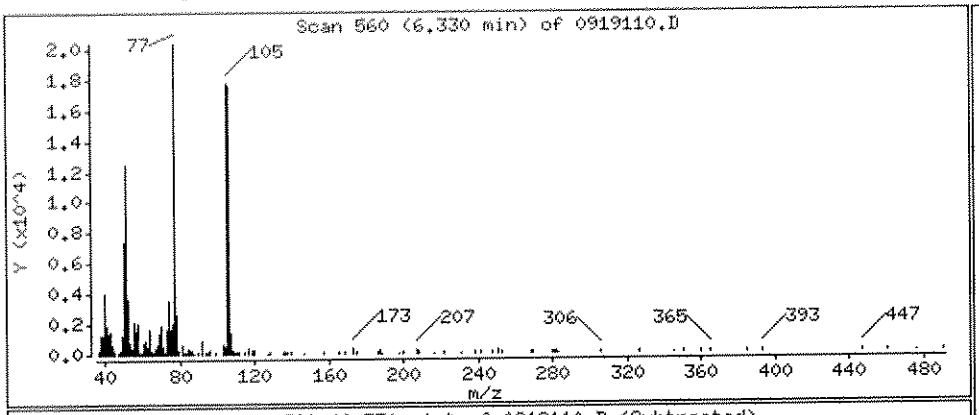
Operator: GLQ

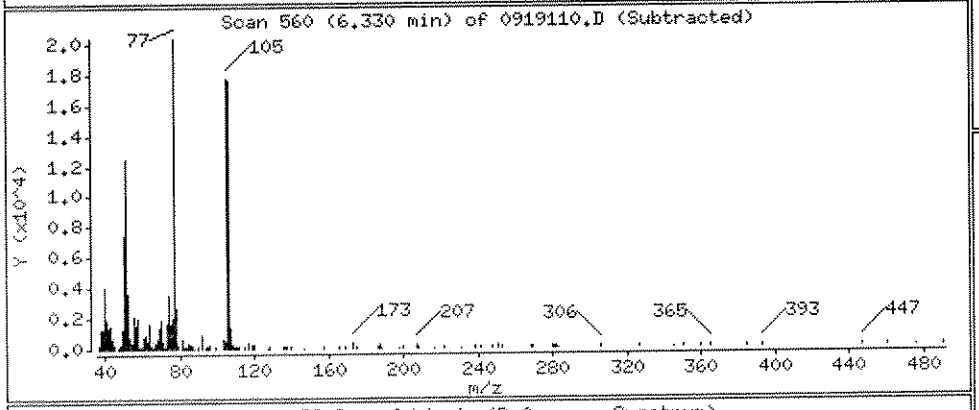
Column phase: fused silica

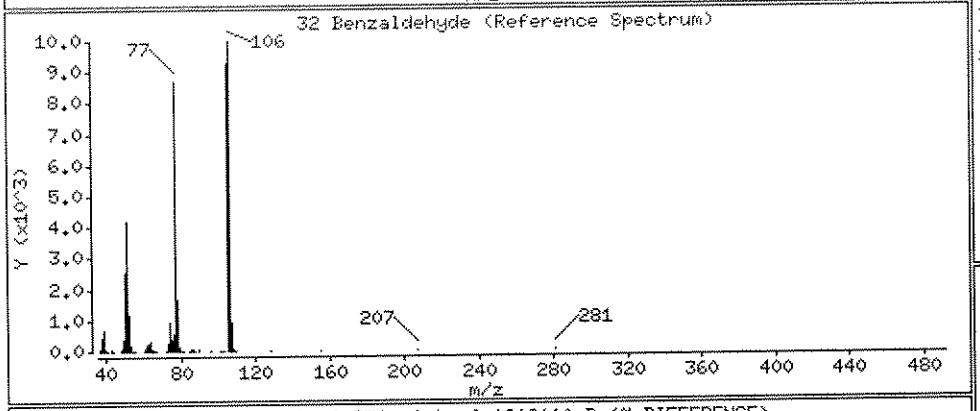
Column diameter: 0.25

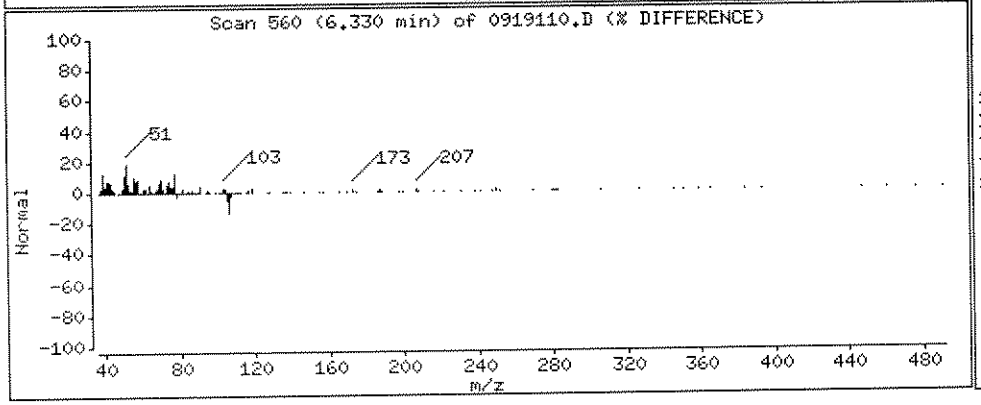
32 Benzaldehyde

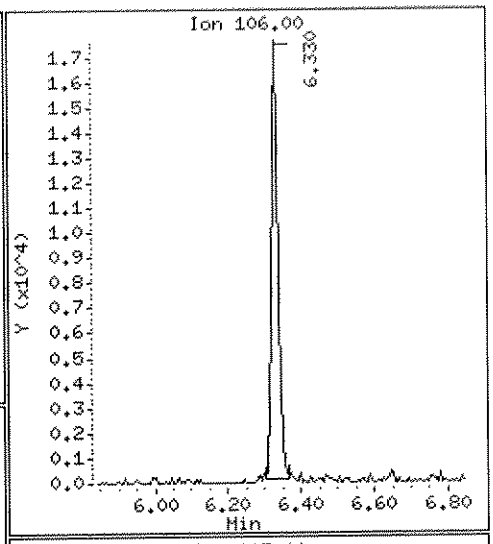
Concentration: 1.742 ug/L

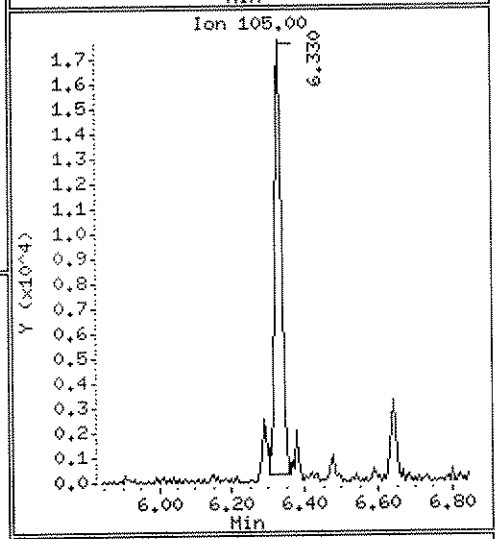


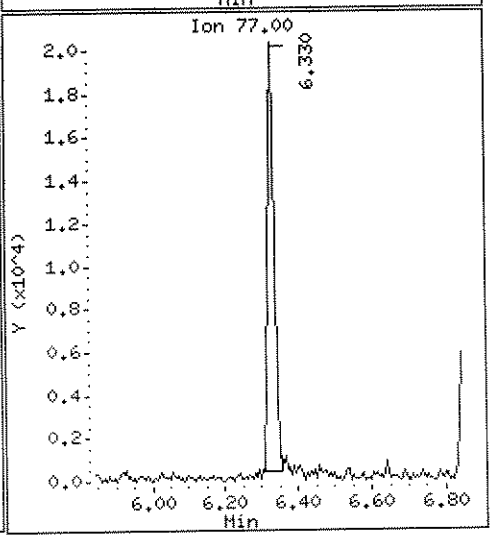












Data File: \\ELABNSH05\TARGET\chem\bna3.i\100711b3E.b\0919110.D

Date : 08-OCT-2011 13:56

Client ID:

Instrument: bna3.i

Sample Info: 1109191-10;;1000;1000;UG/L;;27-SEP-2011

Volume Injected (uL): 0.5

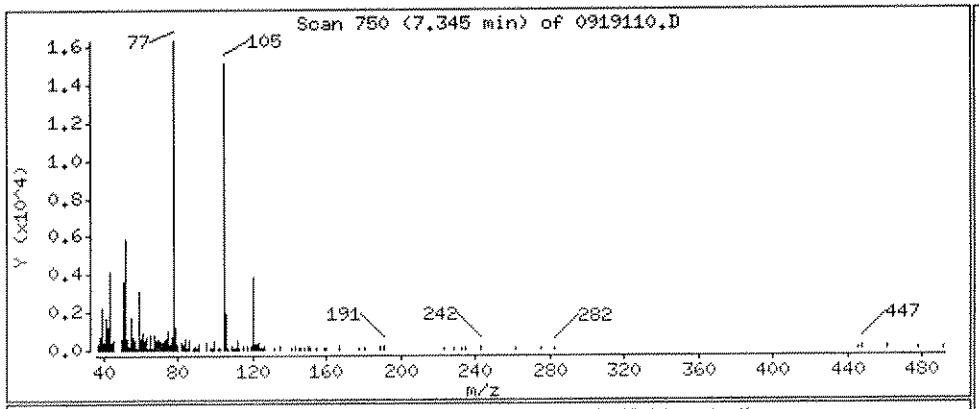
Operator: GLQ

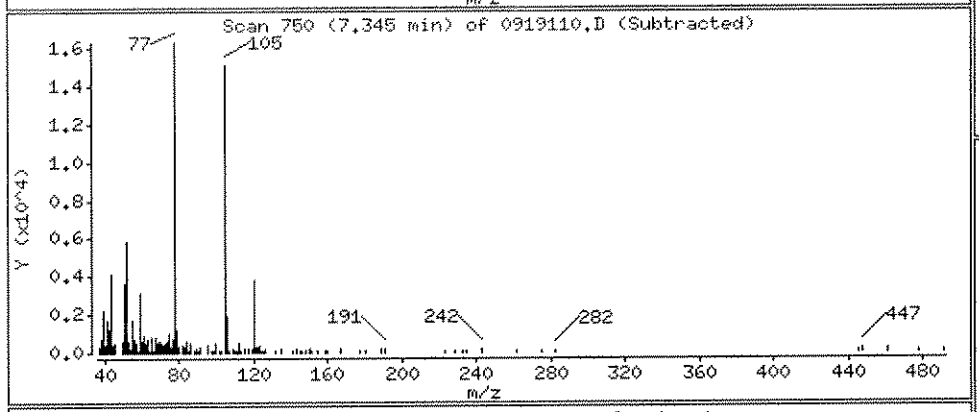
Column phase: fused silica

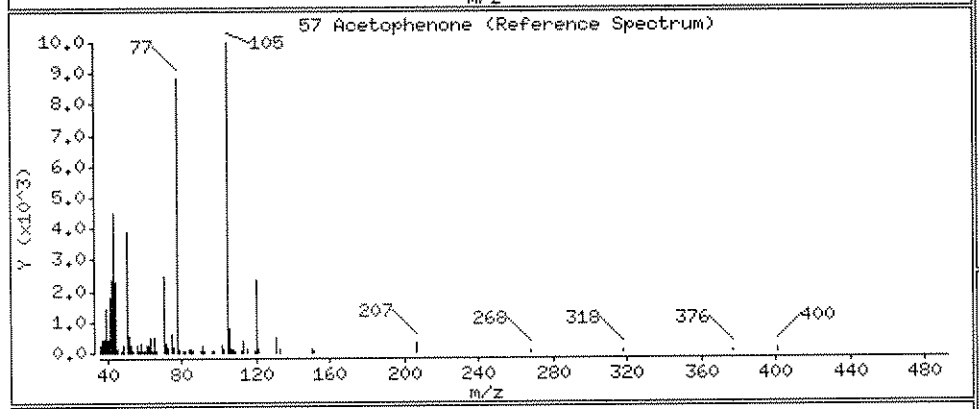
Column diameter: 0.25

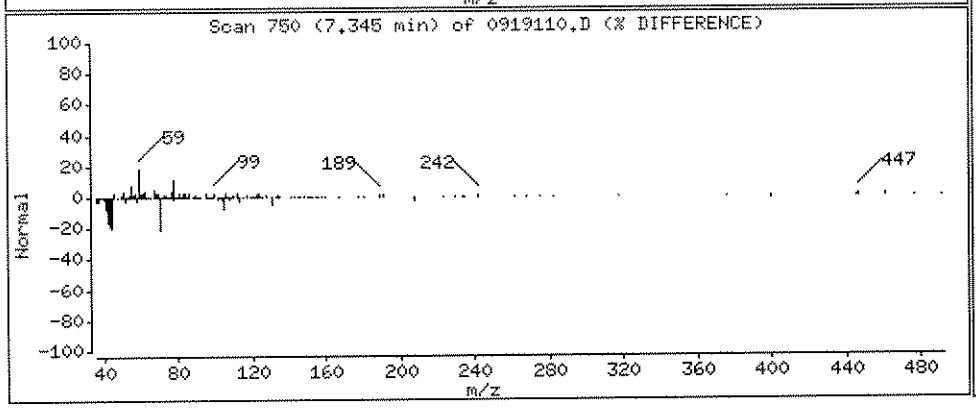
57 Acetophenone

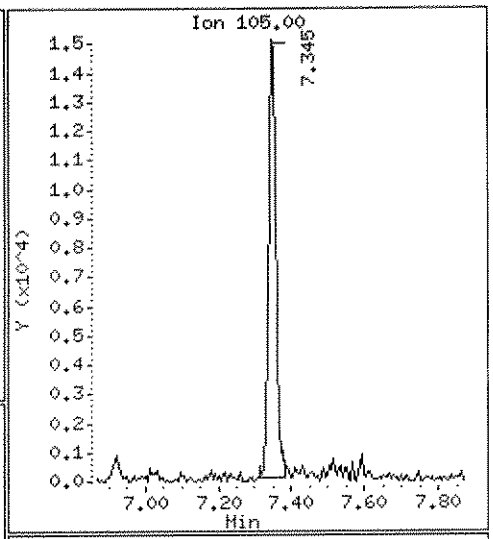
Concentration: 0.9697 ug/L

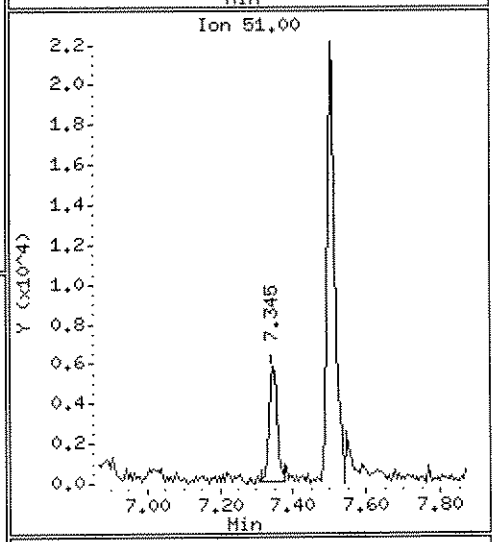


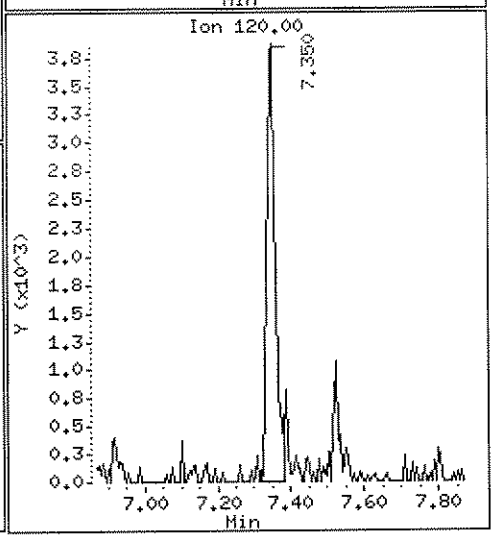












Sequence Name: C:\HPCHEM\1\SEQUENCE\101411B3.S
Comment: epa8270c
Operator: GLQ
Data Path: C:\HPCHEM\1\DATA\101411b3\
Pre-Seq Cmd:
Post-Seq Cmd:

Method Sections To Run
(X) Full Method
( ) Reprocessing Only

On A Barcode Mismatch
(X) Inject Anyway
( ) Don't Inject

7809
RW
10-15-11

IS 11H0532
10ml

Line	Type	Vial	DataFile	Method	Sample Name
1	Sample	96	PRIME1	IXBN3	PRIME;;;;;;
2	Sample	96	PRIME2	IXBN3	PRIME;;;;;;
3	Sample	1	PRIME3	DFTPPBN3	PRIME;;;;;;
4	Sample	1	PRIME4	DFTPPBN3	PRIME;;;;;;
5	Sample	1	PRIME5	DFTPPBN3	PRIME;;;;;;
6	DFTPP	1	SEQ-TUN1	DFTPPBN3	DF1014B1;;;;;;11H0721 1615 10-14
7	DailyCal	2	SEQ-CCV1	IXBN3	CCV50PPM;;;;;;11J0398
8	Sample	3	SEQ-CCV2	IXBN3	CCV_INT2_50PPM;;;;;;11J0248
9	Sample	4	BLANK	IXBN3	BLANK;;;;;;
10	Blank	5	~~I23026B1~~	IXBN3	~~1J13018~~-BLK1;;15;1000;UG/KG;; 1J13018-BLK1
11	Spike	6	~~I23026L1~~	IXBN3	~~1J13018~~-BS1;;15;1000;UG/KG;;1 1J13018-BS1
12	Sample	7	0924601R	IXBN3	1109246-01RE1;;15;1000;UG/KG;
13	Sample	8	1008401	IXBN3	1110084-01;;15;1000;UG/KG;;13
14	Spike	9	1008401M	IXBN3	1J13018-MS1;;15;1000;UG/KG;;1
15	Spike	10	1008401S	IXBN3	1J13018-MSD1;;15;1000;UG/KG;;
16	Blank	11	J03009B1	IXBN3	1J03009-BLK1;;15;1000;UG/KG;;
17	Spike	12	J03009L1	IXBN3	1J03009-BS1;;15;1000;UG/KG;;0
18	Spike	13	0924201M	IXBN3	1J06002-MS1;;100;1000;UG/L;;0
19	Spike	14	0924201S	IXBN3	1J06002-MSD1;;100;1000;UG/L;;
20	Sample	15	0919101	IXBN3	1109191-01;;15;1000;UG/KG;;04
21	Sample	16	0919102	IXBN3	1109191-02;;15;1000;UG/KG;;04
22	Sample	17	0919103	IXBN3	1109191-03;;15;1000;UG/KG;;04 do not use
23	Sample	18	0919105	IXBN3	1109191-05;;15;1000;UG/KG;;04 0332 10-15
24	Pause				
25	~~Spike~~	~~27~~	~~0919102M~~	~~IXBN3~~	~~1J03009-MS1;;15;1000;UG/KG;;0~~
26	Spike	28	0919102S	IXBN3	1J03009-MSD1;;15;1000;UG/KG;;
27	Sample	29	0919106	IXBN3	1109191-06;;15;1000;UG/KG;;04
28	Sample	30	0919203	IXBN3	1109192-03;;15;1000;UG/KG;;04
29	Sample	31	0919209	IXBN3	1109192-09;;15;1000;UG/KG;;04
30	Sample	32	0919210	IXBN3	1109192-10;;15;1000;UG/KG;;04
31	Pause				
32	DFTPP	1	SEQ-TUN2	DFTPPBN3	DF1014B2;;;;;;11H0721
33	Sample	2	SEQ-CCV3	IXBN3	CCV50PPM;;;;;;11J0398
34	Sample	3	SEQ-CCV4	IXBN3	CCV_INT2_50PPM;;;;;;11J0248
35	Sample	4	BLANK2	IXBN3	BLANK;;;;;;

Last Modified: Fri Oct 14 18:02:17 2011 Page: 1

Data File: \\ELABNSH05\TARGET\chem\bna3.i\101411b3.b\SEQ-TUN1.D

Date : 14-OCT-2011 16:15

Client ID: 50ppm DFTPP

Instrument: bna3.i

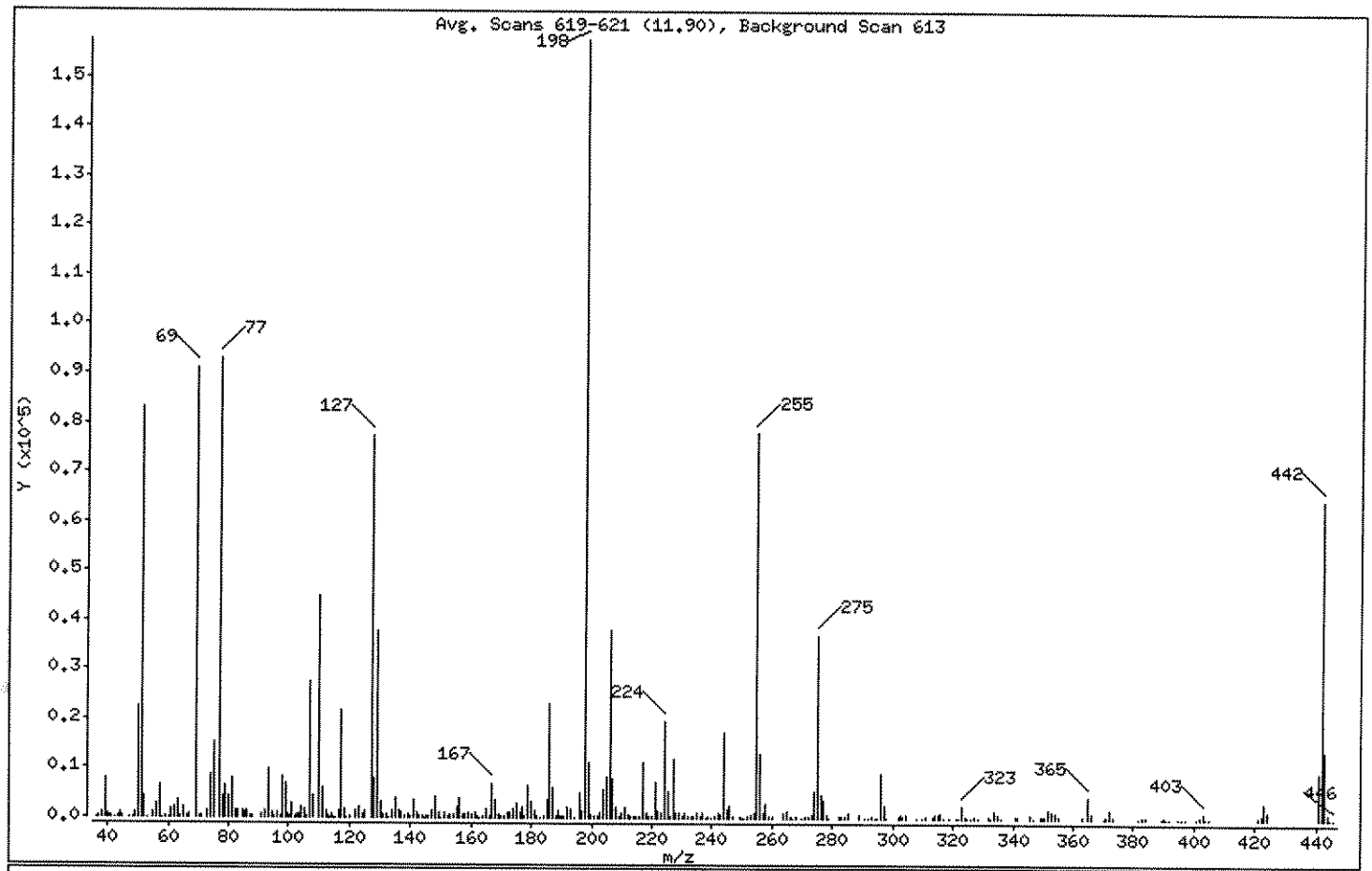
Sample Info: DF1014B1;;;;;;11H0721

Operator: GLQ

Column phase: DB5-MS

Column diameter: 0.25

1 dftpp



10-15-11

GLQ 10/14/11

m/e	ION ABUNDANCE CRITERIA	% RELATIVE ABUNDANCE
198	Base Peak, 100% relative abundance	100.00
51	30.00 - 60.00% of mass 198	52.67
68	Less than 2.00% of mass 69	0.00 (0.00)
69	Mass 69 relative abundance	57.85
70	Less than 2.00% of mass 69	0.32 (0.56)
127	40.00 - 60.00% of mass 198	49.08
197	Less than 1.00% of mass 198	0.84
199	5.00 - 9.00% of mass 198	7.07
275	10.00 - 30.00% of mass 198	23.44
365	Greater than 1.00% of mass 198	2.71
441	Present, but less than mass 443	5.88
442	Greater than 40.00% of mass 198	41.04
443	17.00 - 23.00% of mass 442	8.78 (21.40)

Data File: \\ELABNSH05\TARGET\chem\bna3.i\101411b3.b\SEQ-TUN1.D

Date : 14-OCT-2011 16:15

Client ID: 50ppm DFTPP

Instrument: bna3.i

Sample Info: DF1014B1;;;;;;11H0721

Operator: GLQ

Column phase: DB5-MS

Column diameter: 0.25

Data File: SEQ-TUN1.D
Spectrum: Avg. Scans 619-621 (11.90), Background Scan 613
Location of Maximum: 198.00
Number of points: 321

m/z	Y	m/z	Y	m/z	Y	m/z	Y
36.10	128	118.90	131	199.90	841	290.90	74
37.00	432	120.00	519	200.90	458	291.80	88
38.10	1171	122.10	1425	201.80	423	293.00	529
39.20	7993	123.00	2250	202.10	479	294.00	166
40.00	687	124.30	793	202.90	1126	294.70	128
40.50	413	125.10	1423	204.10	5759	296.00	9196
40.70	404	127.10	77296	205.10	8407	297.00	2638
41.10	495	128.10	7951	206.10	37928	297.70	99
42.10	98	129.00	37848	207.00	7926	301.80	315
43.30	326	130.00	3435	208.10	2013	302.80	566
44.00	978	130.90	677	209.00	397	303.10	456
44.90	330	131.90	790	210.00	1099	304.10	609
47.00	93	132.70	52	210.80	2043	307.90	72
48.10	173	133.90	1301	212.10	559	309.90	99
49.00	1207	135.00	3902	212.90	195	311.10	185
50.10	22440	136.10	1438	214.30	243	313.10	280
51.10	82952	137.00	1138	214.90	328	314.10	776
52.10	4516	138.20	440	216.00	456	314.90	863
53.00	111	139.00	711	217.00	11174	316.00	924
55.10	993	139.90	468	218.00	1119	317.10	125
56.10	2915	141.00	3713	218.70	209	318.60	114
57.10	6449	142.10	1205	220.00	295	320.90	124
57.90	129	143.00	473	221.10	7342	322.00	178
58.90	188	144.00	381	222.10	1627	323.00	2661
60.20	127	144.70	102	222.90	1255	324.10	446
61.10	1847	145.30	277	224.00	19680	324.90	51
62.20	2097	145.80	351	225.10	5564	326.00	79
63.10	3558	147.00	1453	226.00	307	326.90	503
64.00	541	148.00	4293	227.10	11986	328.10	154
65.10	2186	149.10	988	227.80	1020	332.00	248
66.00	418	149.90	103	229.00	1139	332.80	139
67.10	864	151.10	948	230.00	268	334.00	1507
69.00	91120	152.10	466	230.90	1124	335.00	762
70.20	509	153.00	773	231.90	264	336.10	56
71.30	248	154.00	844	233.00	274	340.80	377

Data File: \\ELABNSH05\TARGET\chem\bna3.i\101411b3.b\SEQ-TUN1.D

Date : 14-OCT-2011 16:15

Client ID: 50ppm DFTPP

Instrument: bna3.i

Sample Info: DF1014B1;;;;;;11H0721

Operator: GLQ

Column phase: DB5-MS

Column diameter: 0.25

Data File: SEQ-TUN1.D

Spectrum: Avg. Scans 619-621 (11.90), Background Scan 613

Location of Maximum: 198.00

Number of points: 321

m/z	Y	m/z	Y	m/z	Y	m/z	Y
72.90	1283	155.10	2093	234.00	544	341.70	483
74.10	8583	156.10	3815	235.00	1027	345.80	699
75.10	15314	157.00	677	236.00	430	346.90	133
77.10	92920	158.00	725	237.00	1259	349.30	407
78.10	4312	159.10	1270	238.10	133	350.10	192
79.00	6507	160.10	851	238.70	225	350.70	240
80.00	4338	161.10	1204	240.00	81	351.90	1892
81.00	7967	162.10	454	241.00	464	352.90	1278
82.10	1421	162.80	90	242.00	968	354.10	1067
83.20	1536	163.90	522	242.90	796	355.10	509
84.90	1343	165.10	1797	244.10	17584	362.90	189
85.30	998	165.90	491	245.00	1832	365.00	4267
86.10	1553	166.20	505	246.00	2502	365.90	953
87.00	521	167.00	6786	246.90	484	370.00	138
88.00	239	168.00	3582	249.20	499	370.80	358
91.00	872	169.10	871	249.70	99	372.10	1754
92.00	1625	170.00	539	250.70	78	373.00	471
93.10	9823	171.00	534	251.80	260	381.70	87
94.10	910	171.90	923	252.90	622	382.60	341
95.00	351	172.90	914	254.00	1202	383.00	192
96.10	912	174.00	1985	255.00	77864	383.80	206
97.20	392	175.00	3068	256.00	13090	389.60	174
98.00	8503	176.20	1182	257.10	1189	390.00	247
99.10	6902	177.10	2092	257.90	3019	390.70	89
99.80	699	177.80	418	259.00	330	391.70	152
100.20	444	179.00	6487	259.90	371	394.70	152
100.90	2754	180.00	3364	263.90	965	396.00	144
102.00	496	181.00	1579	265.00	1548	396.90	167
102.80	670	182.00	410	265.90	396	401.00	176
103.10	646	183.20	109	266.70	60	401.70	417
104.00	2167	183.90	440	267.80	523	402.90	1023
105.00	1802	185.00	3515	269.90	63	403.80	53
105.70	401	186.10	23240	270.80	187	404.70	69
107.00	27728	187.10	6047	272.30	412	420.90	539
108.10	4275	188.10	404	273.00	837	422.10	890

Data File: \\ELABNSH05\TARGET\chem\bna3.i\101411b3.b\SEQ-TUN1.D

Date : 14-OCT-2011 16:15

Client ID: 50ppm DFTPP

Instrument: bna3.i

Sample Info: DF1014B1;;;;;;11H0721

Operator: GLQ

Column phase: DB5-MS

Column diameter: 0.25

Data File: SEQ-TUN1.D

Spectrum: Avg. Scans 619-621 (11.90), Background Scan 613

Location of Maximum: 198.00

Number of points: 321

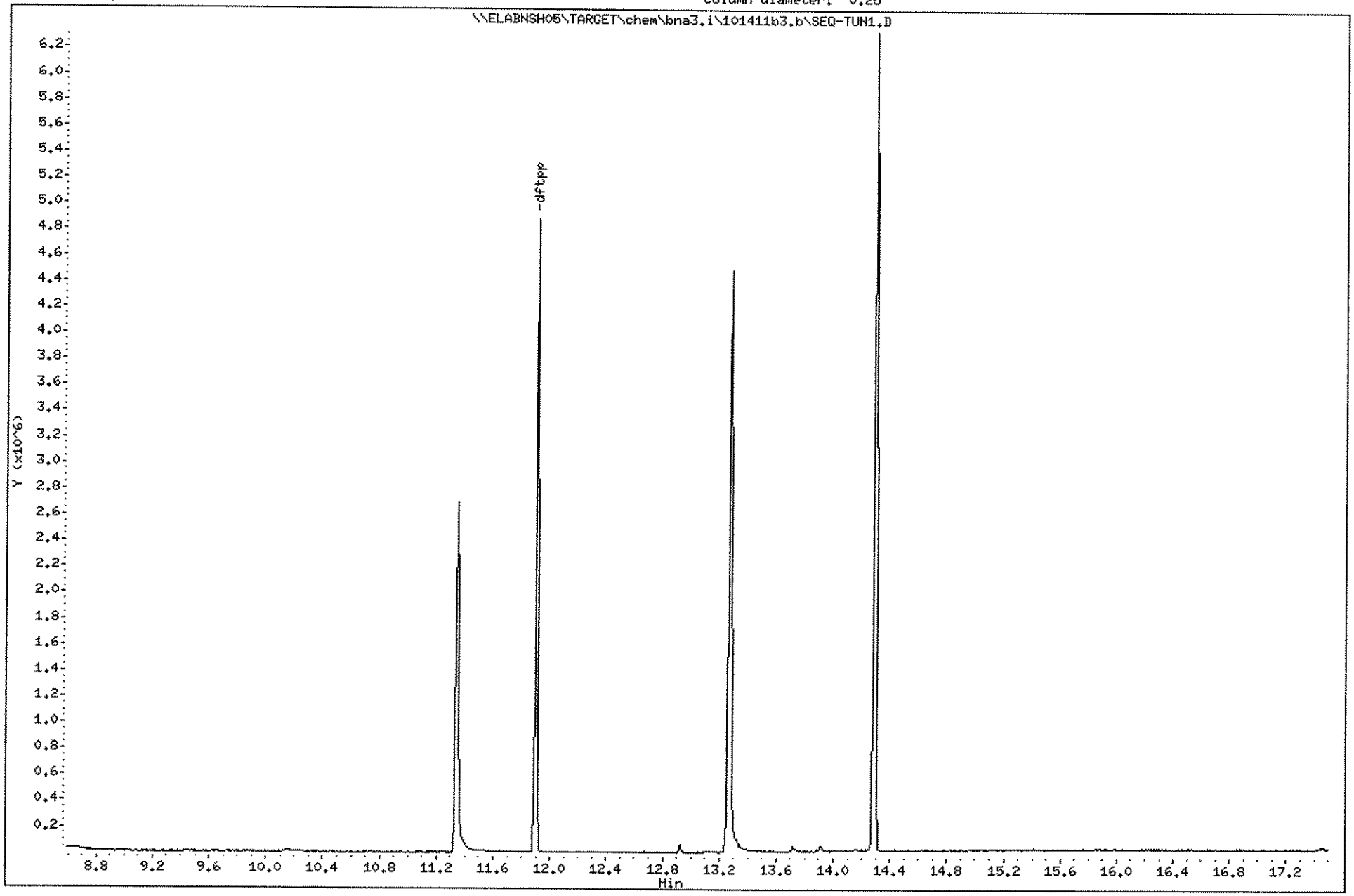
m/z	Y	m/z	Y	m/z	Y	m/z	Y
110.00	44840	189.00	1577	274.00	5273	423.00	3299
111.10	6079	189.60	223	275.00	36920	424.10	1458
112.10	1418	190.30	232	276.00	4657	441.00	9259
113.00	276	190.90	513	277.00	3533	441.90	64640
113.60	137	192.10	2072	277.80	778	442.90	13833
114.20	851	193.10	1692	278.90	76	443.90	1172
114.80	150	194.10	156	282.20	189	444.70	174
115.20	147	196.00	5039	283.00	298	445.80	86
116.20	1540	196.70	1327	284.00	275		
117.10	21816	198.00	157504	285.00	1092		
118.00	1772	199.00	11139	288.80	619		

Data File: \\ELABNSH05\TARGET\chem\bna3.i\101411b3.b\SEQ-TUN1.D
Date : 14-OCT-2011 16:15
Client ID: 50ppm DFTPP
Sample Info: DF1014B1;;;;;;11H0721

Instrument: bna3.i

Operator: GLQ
Column diameter: 0.25

Column phase: DB5-MS

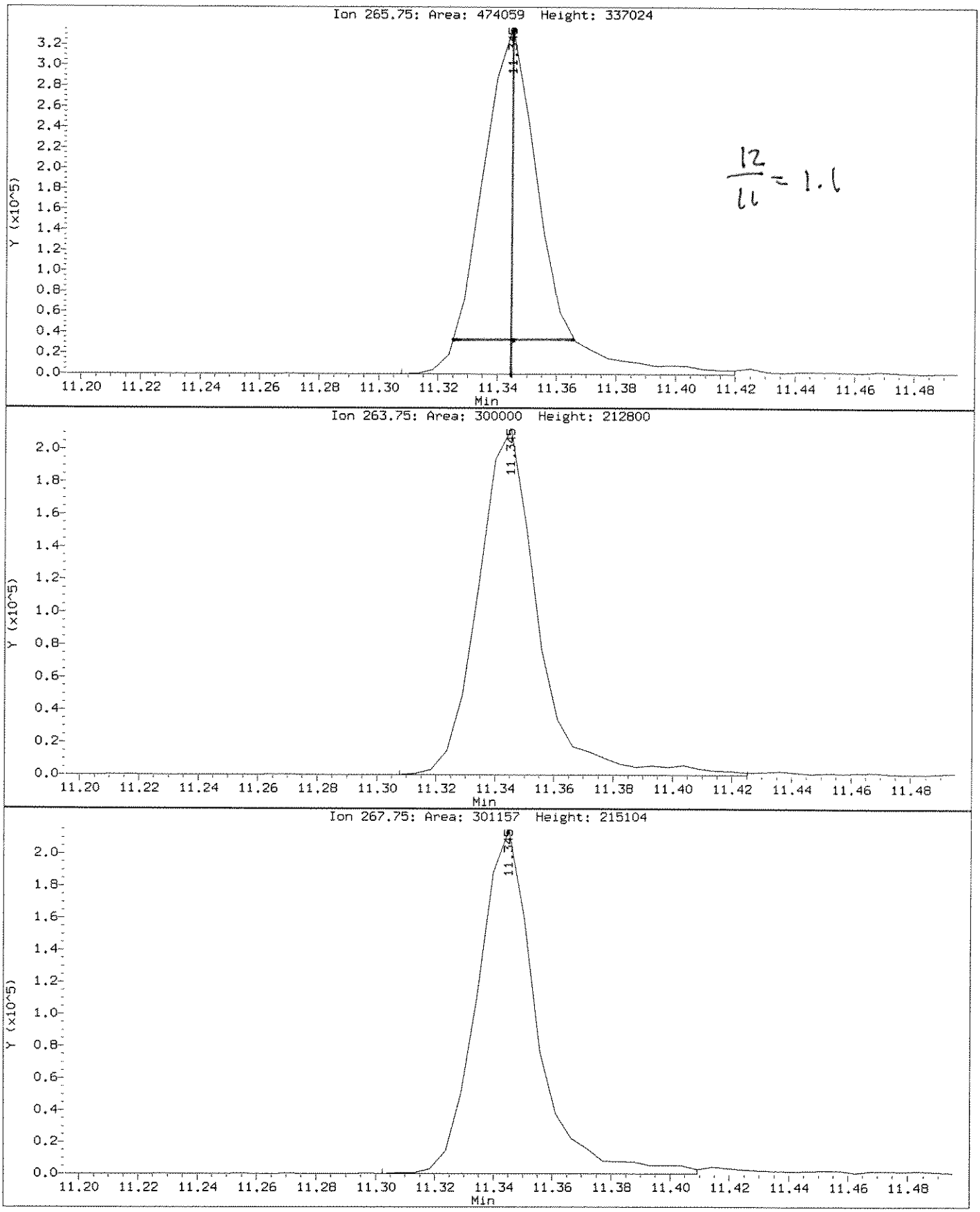


732

1109191

Data File: \\ELABNSHO5\TARGET\chem\bna3.i\101411b3.b\SEQ-TUN1ex.D
Injection Date: 14-OCT-2011 16:15
Instrument: bna3.i
Client Sample ID: 50ppm DFTPP

Compound: Pentachlorophenol
CAS Number: 87-86-5



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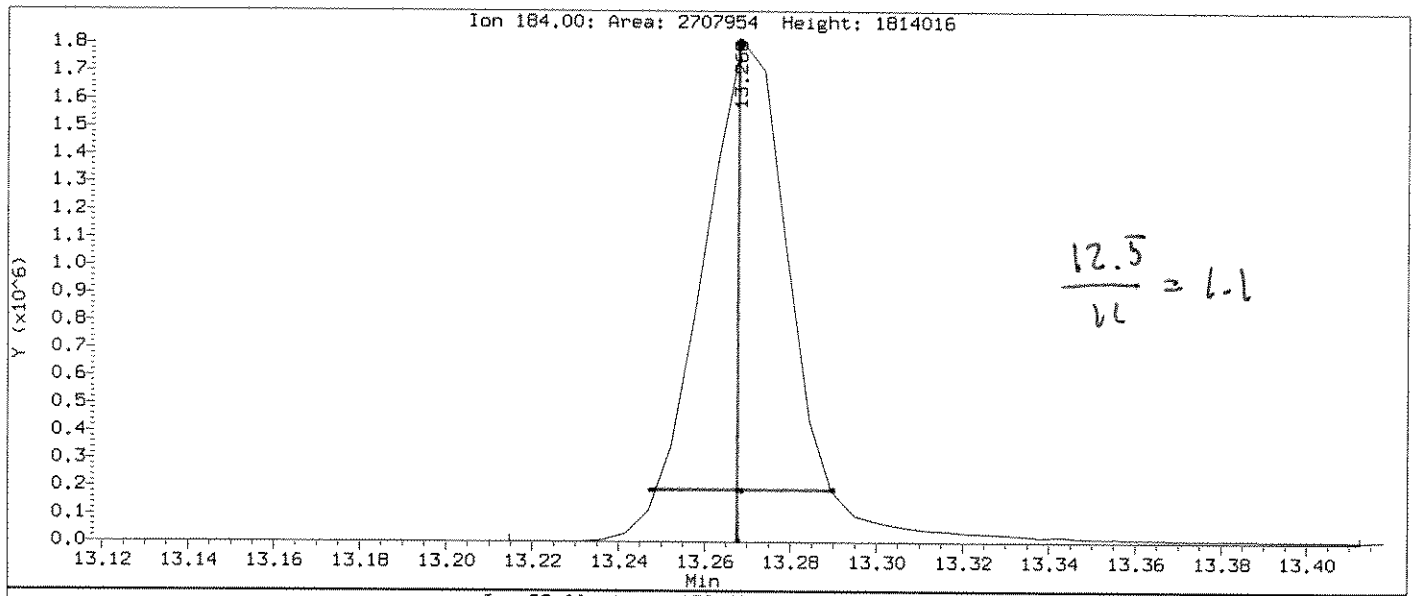
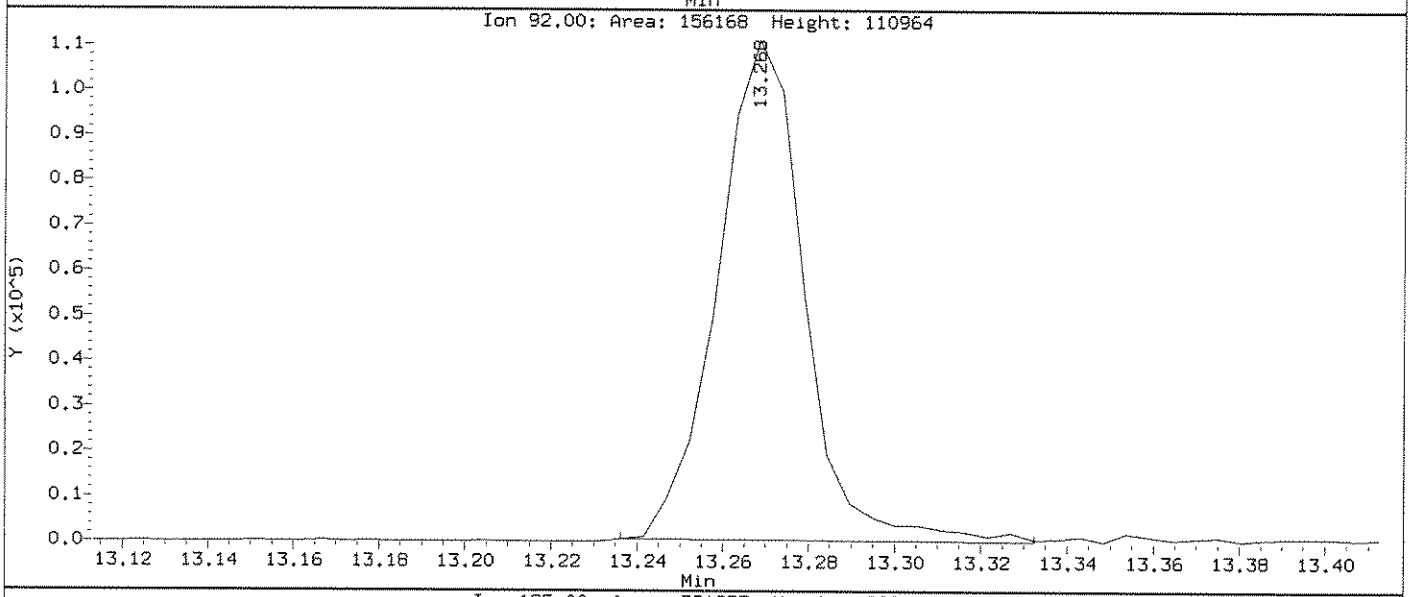
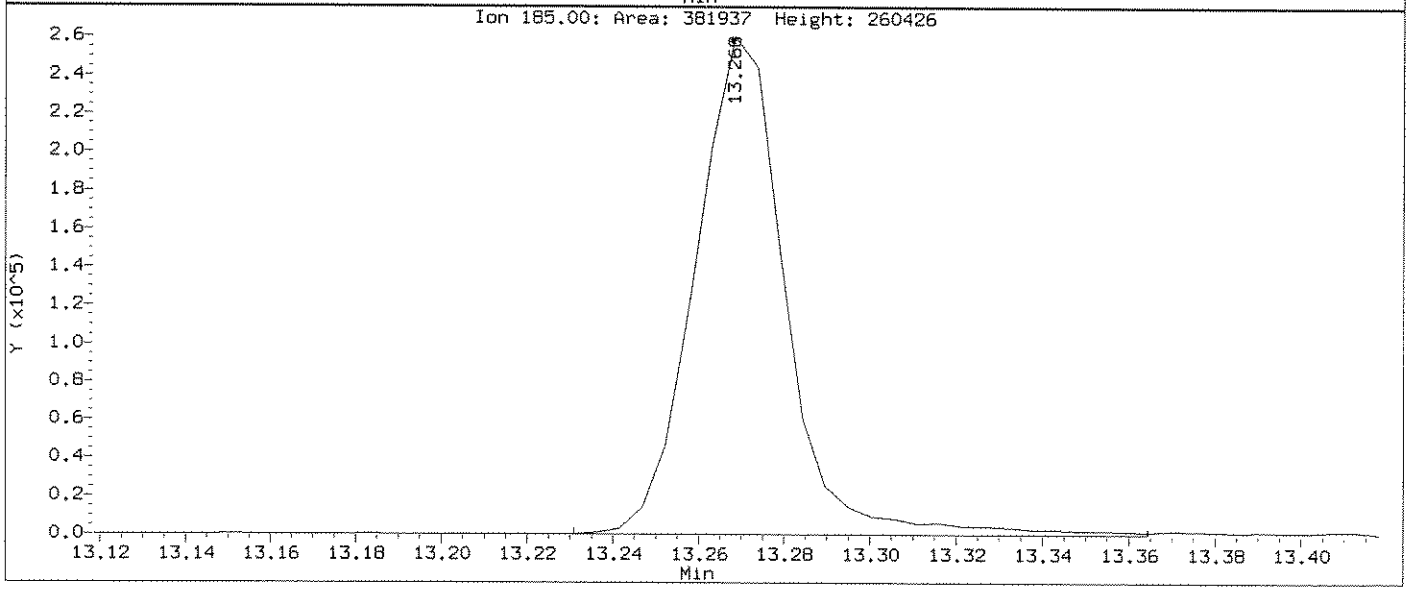
Injection Date: 14-OCT-2011 16:15
Instrument: bna3.i
Client Sample ID: 50ppm DFTPP

Compound: Benzidine
CAS Number: 92-87-5



$\frac{12.5}{11} = 1.1$





Data File: \\ELABNSH05\TARGET\chem\bna3.i\101411b3.b\SEQ-TUN1ex.D
Report Date: 14-Oct-2011 17:54

Laboratory Name

Data file : \\ELABNSH05\TARGET\chem\bna3.i\101411b3.b\SEQ-TUN1ex.D
Lab Smp Id: SEQ-TUN1 Client Smp ID: 50ppm DFTPP
Inj Date : 14-OCT-2011 16:15 MS Autotune Date: 28-JUL-1998 06:19
Operator : GLQ Inst ID: bna3.i
Smp Info : DF1014B1;;;;;;11H0721
Misc Info : ;;;;;;;all.sub;
Comment :
Method : \\ELABNSH05\TARGET\chem\bna3.i\101411b3.b\dftppbn3ex.m
Meth Date : 13-Oct-2011 13:00 gquick Quant Type: ESTD
Cal Date : Cal File:
Als bottle: 1 QC Sample: DFTPP
Dil Factor: 1.00000
Integrator: HP RTE Compound Sublist: all.sub
Target Version: 4.04

Compounds	QUANT SIG MASS	RT	EXP RT	DLT RT	RESPONSE	CONCENTRATIONS ON-COLUMN (ng/ul)	FINAL (ng/ul)	
1 Pentachlorophenol	266	11.345	11.344	0.001	474059			
2 Benzidine	184	13.268	13.267	0.001	2707954			
4 4,4'-DDD	235	13.914	13.913	0.001	10651			(Q)
5 4,4'-DDT	235	14.288	14.282	0.006	1448968			

QC Flag Legend

Q - Qualifier signal failed the ratio test.

DDT % BREAKDOWN = $\frac{10651}{1459619} \times 100\% = 0.73\%$

Data File: \\ELABNSH05\TARGET\chem\bna3.i\101411b3.b\SEQ-CCV1.D
Report Date: 14-Oct-2011 17:29

Laboratory Name

Data file : \\ELABNSH05\TARGET\chem\bna3.i\101411b3.b\SEQ-CCV1.D
Lab Smp Id: SEQ-CCV1 Client Smp ID: CCV50PPM
Inj Date : 14-OCT-2011 16:44 MS Autotune Date: 28-JUL-1998 06:19
Operator : GLQ Inst ID: bna3.i
Smp Info : CCV50PPM;;;;;;11J0398
Misc Info : ;2;CCV;;;;ppbnax.sub;
Comment :
Method : \\ELABNSH05\TARGET\chem\bna3.i\101411b3.b\IXBN3.m
Meth Date : 14-Oct-2011 17:25 gquick Quant Type: ISTD
Cal Date : 30-APR-2011 01:58 Cal File: SEQ-CALG.D
Als bottle: 2
Dil Factor: 1.00000
Integrator: HP RTE Compound Sublist: ppbnax.sub
Target Version: 4.04
Processing Host: TARGET17_VM

10-15-11

GLQ 10/14/11

Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS ON-COLUMN (ng/ul)	FINAL (ng/ul)
* 1 1,4-Dichlorobenzene-d4	152	6.888	6.888	(1.000)	265256	40.0000	
$ 2 2-Fluorophenol	112	5.339	5.339	(0.775)	728688	96.2067	96.21(R)
$ 3 Phenol-d6	99	6.418	6.418	(0.932)	1007320	96.5689	96.57(R)
4 Pyridine	79	4.067	4.067	(0.591)	410786	41.7759	41.78
5 1,4-Dioxane	88	3.752	3.752	(0.545)	133183	37.1519	37.15(MH)
6 N-Nitroso-di-methylamine	42	4.009	4.009	(0.582)	250666	55.2127	55.21
7 Aniline	93	6.482	6.482	(0.941)	677539	48.6670	48.67
10 Phenol	94	6.434	6.434	(0.934)	527716	47.1520	47.15
11 bis(2-Chloroethyl)ether	93	6.546	6.546	(0.950)	428133	49.7452	49.74
12 2-Chlorophenol	128	6.632	6.632	(0.963)	407587	46.7399	46.74
13 1,3-Dichlorobenzene	146	6.819	6.819	(0.990)	495894	52.3759	52.38
14 1,4-Dichlorobenzene	146	6.910	6.910	(1.003)	504756	52.6771	52.68
15 Benzyl alcohol	108	7.054	7.054	(1.024)	251213	43.7054	43.70
16 1,2-Dichlorobenzene	146	7.096	7.096	(1.030)	467488	52.0741	52.07
17 2-Methylphenol	108	7.187	7.187	(1.043)	389041	48.5394	48.54
18 2,2'-Oxybis-1-chloropropane	45	7.214	7.214	(1.047)	539340	41.7701	41.77(Q)
19 3-Methylphenol	108	7.385	7.385	(1.072)	410114	48.7574	48.76
20 4-Methylphenol	108	7.385	7.385	(1.072)	410114	48.7574	48.76
196 3-Methylphenol/4-Methylphenol	108	7.385	7.385	(1.072)	413381	49.1458	49.14
21 N-Nitroso-di-n-propylamine	70	7.385	7.385	(1.072)	364564	53.1695	53.17
22 Hexachloroethane	117	7.524	7.524	(1.092)	185787	51.2683	51.27
32 Benzaldehyde	106	6.359	6.359	(0.923)	325243	48.5553	48.56
* 33 Naphthalene-d8	136	8.501	8.501	(1.000)	950793	40.0000	
$ 34 Nitrobenzene-d5	82	7.583	7.583	(0.892)	539838	55.7259	55.72(R)
35 Nitrobenzene	77	7.609	7.609	(0.895)	537014	54.9967	55.00
39 Isophorone	82	7.914	7.914	(0.931)	880684	49.7806	49.78

Data File: \\ELABNSH05\TARGET\chem\bna3.i\101411b3.b\SEQ-CCV1.D
Report Date: 14-Oct-2011 17:29

Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS ON-COLUMN (ng/ul)	FINAL (ng/ul)
40 2-Nitrophenol	139	8.010	8.010	(0.942)	231859	50.2426	50.24
42 2,4-Dimethylphenol	107	8.058	8.058	(0.948)	448959	51.9379	51.94
43 Benzoic acid	105	8.192	8.192	(0.964)	262269	41.1798	41.18
44 bis(2-Chloroethoxy)methane	93	8.176	8.176	(0.962)	487694	48.0514	48.05
47 2,4-Dichlorophenol	162	8.320	8.320	(0.979)	363633	50.2115	50.21
62 2,6-Dichlorophenol	162	8.603	8.603	(1.012)	368156	51.8912	51.89
50 1,2,4-Trichlorobenzene	180	8.421	8.421	(0.991)	447808	55.0581	55.06
51 Naphthalene	128	8.528	8.528	(1.003)	1238220	52.3066	52.31
52 4-Chloroaniline	127	8.592	8.592	(1.011)	491901	48.9769	48.98
53 Hexachlorobutadiene	225	8.667	8.667	(1.019)	270619	60.9289	60.93
54 4-Chloro-3-methylphenol	107	9.217	9.217	(1.084)	356032	48.1073	48.11
55 2-Methylnaphthalene	141	9.404	9.404	(1.106)	712188	50.1521	50.15
56 1-Methylnaphthalene	141	9.532	9.532	(1.121)	693234	49.6611	49.66
57 Acetophenone	105	7.390	7.390	(1.073)	613369	51.3293	51.33
67 1,2,4,5-Tetrachlorobenzene	216	9.613	9.613	(1.131)	424345	53.2454	53.24
68 Caprolactam	113	9.073	9.073	(1.067)	121489	45.2939	45.29(M)
* 69 Acenaphthene-d10	164	10.724	10.724	(1.000)	582551	40.0000	
70 Hexachlorocyclopentadiene	237	9.591	9.591	(0.894)	304907	55.8330	55.83
71 2,4,6-Trichlorophenol	196	9.768	9.768	(0.911)	281897	50.6697	50.67
72 2,4,5-Trichlorophenol	196	9.821	9.821	(0.916)	282405	46.8081	46.81
73 2-Chloronaphthalene	162	10.029	10.029	(0.935)	846478	53.4326	53.43
$ 74 2-Fluorobiphenyl	172	9.864	9.864	(0.920)	995256	54.0042	54.00(R)
75 2-Nitroaniline	65	10.158	10.158	(0.947)	274308	50.9020	50.90
76 Dimethylphthalate	163	10.382	10.382	(0.968)	928839	51.2498	51.25
77 Acenaphthylene	152	10.553	10.553	(0.984)	1315405	52.3533	52.35
78 2,6-Dinitrotoluene	165	10.457	10.457	(0.975)	223828	51.3687	51.37
79 3-Nitroaniline	138	10.681	10.681	(0.996)	218620	46.4626	46.46
80 Acenaphthene	153	10.767	10.767	(1.004)	811162	50.1616	50.16
81 2,4-Dinitrophenol	184	10.809	10.809	(1.008)	133359	49.3794	49.38
83 4-Nitrophenol	65	10.900	10.900	(1.016)	194419	49.0488	49.05
84 Dibenzofuran	168	10.986	10.986	(1.024)	1172989	52.4661	52.47
85 2,4-Dinitrotoluene	165	10.970	10.970	(1.023)	299264	52.2885	52.29
86 Diethylphthalate	149	11.258	11.258	(1.050)	917624	52.7376	52.74
87 4-Chlorophenyl-phenylether	204	11.408	11.408	(1.064)	491586	54.1495	54.15
88 Fluorene	166	11.413	11.413	(1.064)	1021077	52.4185	52.42
89 4-Nitroaniline	138	11.450	11.450	(1.068)	205407	43.0933	43.09
96 2,3,4,6-Tetrachlorophenol	232	11.140	11.140	(1.039)	241569	49.6510	49.65
100 1,1'-Biphenyl	154	9.997	9.997	(0.932)	1006574	47.8485	47.85
* 102 Phenanthrene-d10	188	12.615	12.615	(1.000)	1131465	40.0000	
103 1,2-Diphenylhydrazine	77	11.605	11.605	(0.920)	1037190	43.1018	43.10
104 Carbazole	167	12.935	12.935	(1.025)	1260947	42.6832	42.68
105 4,6-Dinitro-2-methylphenol	198	11.477	11.477	(0.910)	189691	46.1166	46.12
106 N-Nitrosodiphenylamine	169	11.557	11.557	(0.916)	833634	43.7977	43.80
$ 107 2,4,6-Tribromophenol	330	11.723	11.723	(0.929)	264045	84.9614	84.96(R)
108 4-Bromophenyl-phenylether	248	12.022	12.022	(0.953)	290580	44.9615	44.96
109 Hexachlorobenzene	284	12.097	12.097	(0.959)	299511	43.3309	43.33
110 Pentachlorophenol	266	12.358	12.358	(0.980)	184430	40.1705	40.17

Data File: \\ELABNSH05\TARGET\chem\bna3.i\101411b3.b\SEQ-CCV1.D
Report Date: 14-Oct-2011 17:29

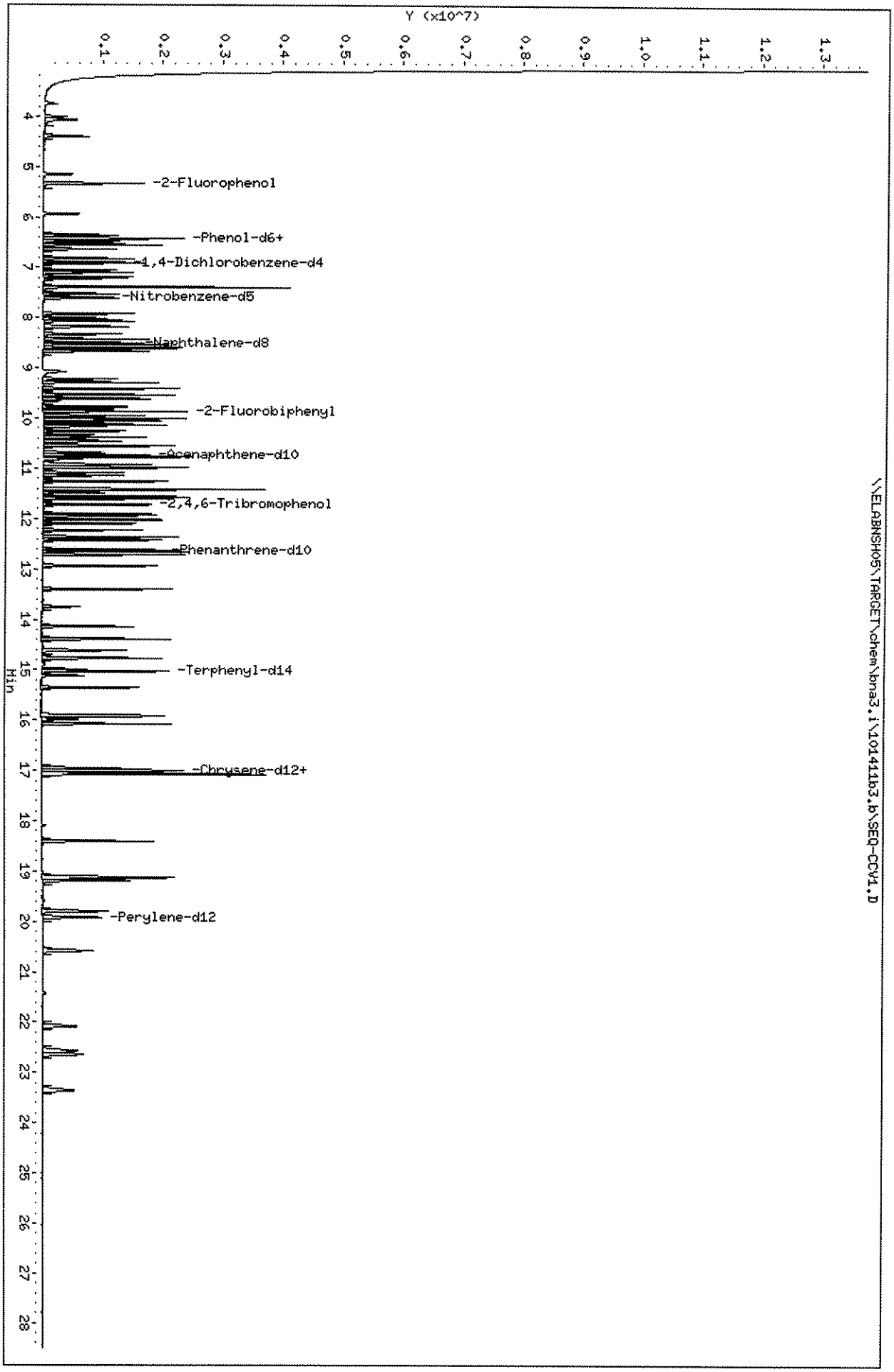
Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS ON-COLUMN (ng/ul)	FINAL (ng/ul)
111 Phenanthrene	178	12.647	12.647	(1.003)	1426583	46.8768	46.88
112 Anthracene	178	12.716	12.716	(1.008)	1458394	47.1850	47.18
115 Di-n-butylphthalate	149	13.395	13.395	(1.062)	1490194	44.5697	44.57
116 Fluoranthene	202	14.388	14.388	(1.141)	1578018	45.2140	45.21
129 Atrazine	200	12.225	12.225	(0.969)	271726	40.9700	40.97
* 132 Chrysene-d12	240	17.006	17.006	(1.000)	1193915	40.0000	
133 Benzidine	184	14.613	14.613	(0.859)	992593	51.8560	51.86
134 Pyrene	202	14.768	14.768	(0.868)	1563338	45.0064	45.01
$ 135 Terphenyl-d14	244	15.019	15.019	(0.883)	1059451	47.5665	47.57(R)
136 Butylbenzylphthalate	149	15.922	15.922	(0.936)	665945	43.4934	43.49
137 3,3'-Dichlorobenzidine	252	16.947	16.947	(0.997)	529324	43.6023	43.60
138 Benzo(a)anthracene	228	16.990	16.990	(0.999)	1482794	44.3835	44.38
139 Chrysene	228	17.060	17.060	(1.003)	1377604	44.0459	44.04
140 Bis(2-ethylhexyl)phthalate	149	17.070	17.070	(1.004)	846070	41.7279	41.73
* 154 Perylene-d12	264	19.918	19.918	(1.000)	861490	40.0000	
155 Di-n-octylphthalate	149	18.400	18.400	(0.924)	1359366	52.4077	52.41
156 Benzo(b)fluoranthene	252	19.127	19.127	(0.960)	1240397	52.6590	52.66
157 Benzo(k)fluoranthene	252	19.180	19.180	(0.963)	1182461	49.5636	49.56
158 Benzo(a)pyrene	252	19.795	19.795	(0.994)	1051276	46.6716	46.67
159 Indeno(1,2,3-cd)pyrene	276	22.573	22.573	(1.133)	868343	38.8419	38.84
160 Dibenz(a,h)anthracene	278	22.642	22.642	(1.137)	835918	38.6396	38.64
161 Benzo(g,h,i)perylene	276	23.353	23.353	(1.172)	822842	36.9801	36.98

QC Flag Legend

Q - Qualifier signal failed the ratio test.
R - Spike/Surrogate failed recovery limits.
M - Compound response manually integrated.
H - Operator selected an alternate compound hit.

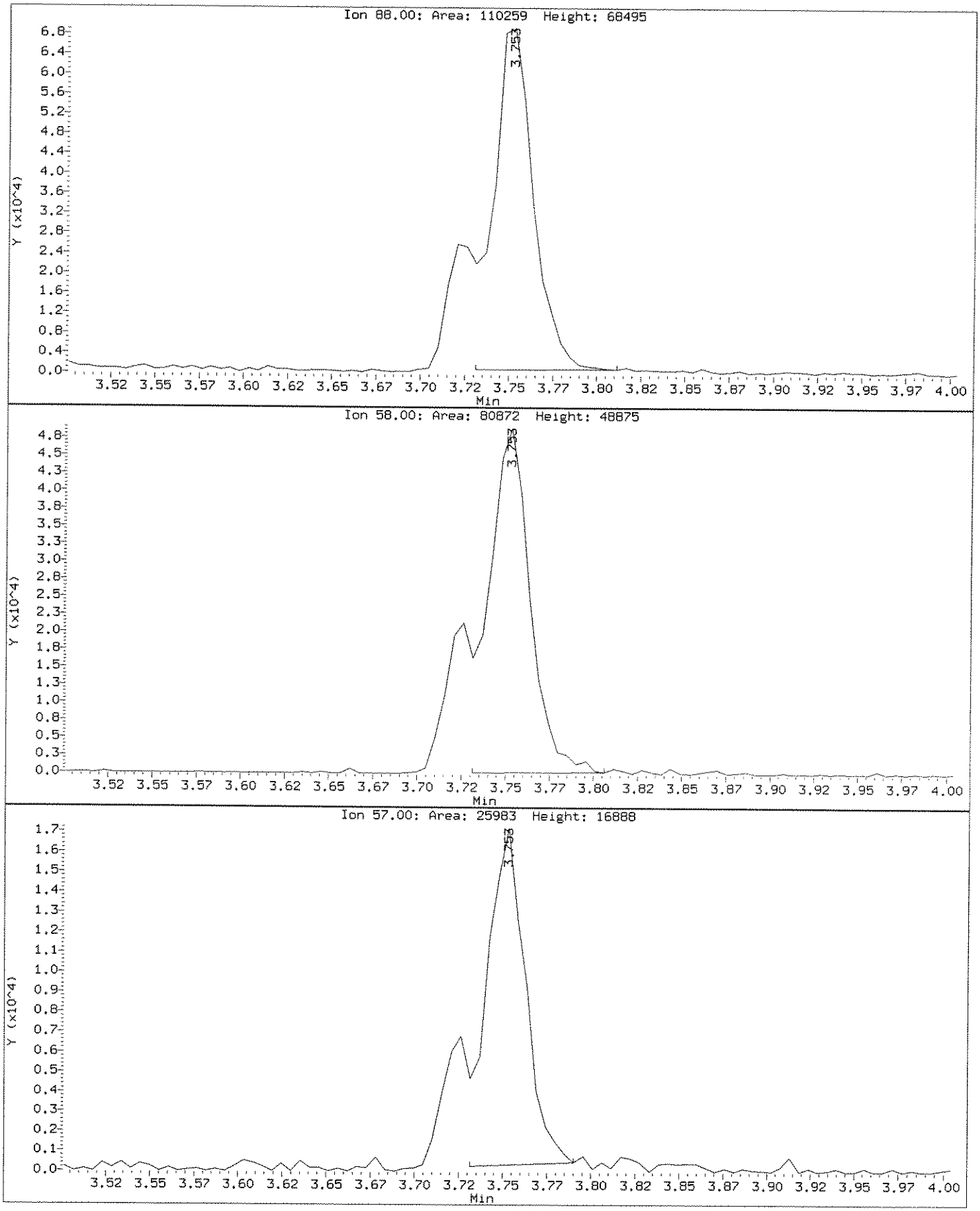
Data File: \\ELABNSHO5\TARGET\chem\bna3.i\101411b3.b\SEQ-CCV1.D
Date : 14-OCT-2011 16:44
Client ID: CCV50PPM
Sample Info: CCV50PPM;;;;;;11J0398
Column phase: fused silica

Instrument: bna3.i
Operator: GLQ
Column diameter: 0.25



Data File: \\ELABNSH05\TARGET\chem\bna3.i\101411b3.b\SEQ-CCV1.D
Injection Date: 14-OCT-2011 16:44
Instrument: bna3.i
Client Sample ID: CCV50PPM

Compound: 1,4-Dioxane
CAS Number: 123-91-1



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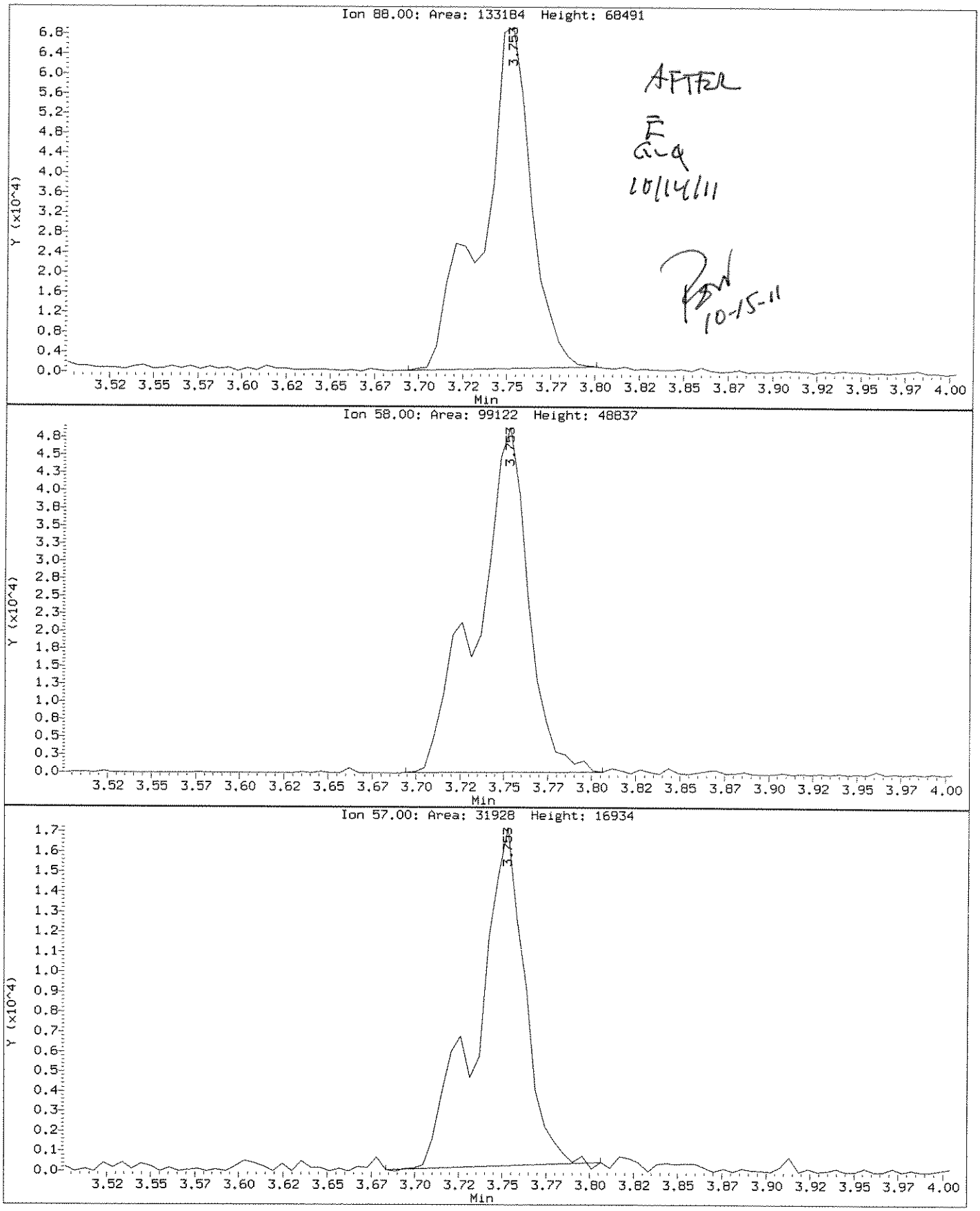
Injection Date: 14-OCT-2011 16:44
Instrument: bna3.i
Client Sample ID: CCV50PPM

Compound: 1,4-Dioxane
CAS Number: 123-91-1

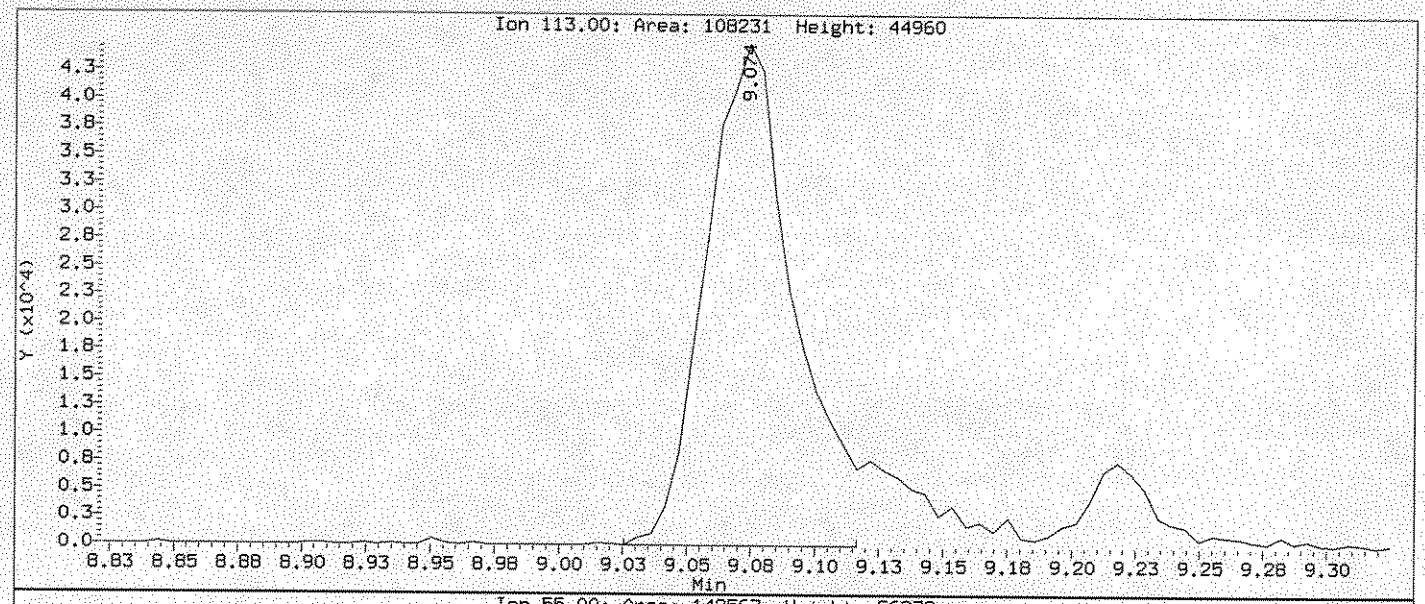


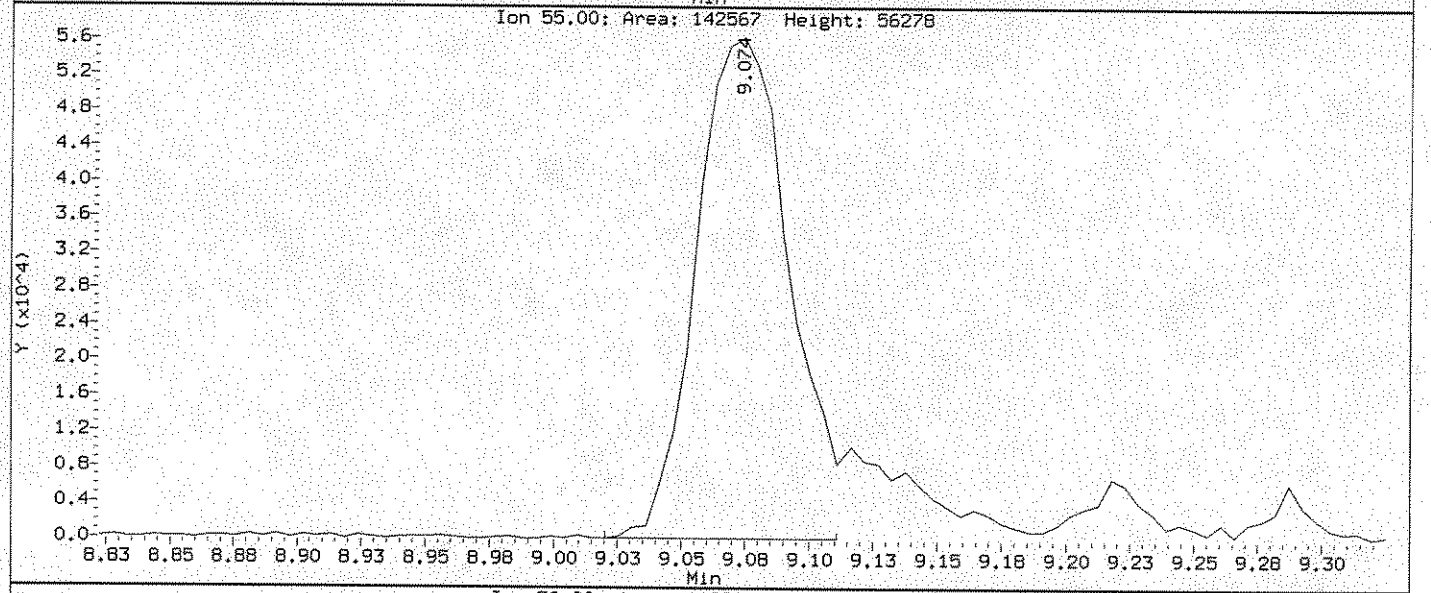
AFTER
F
Eq
10/14/11

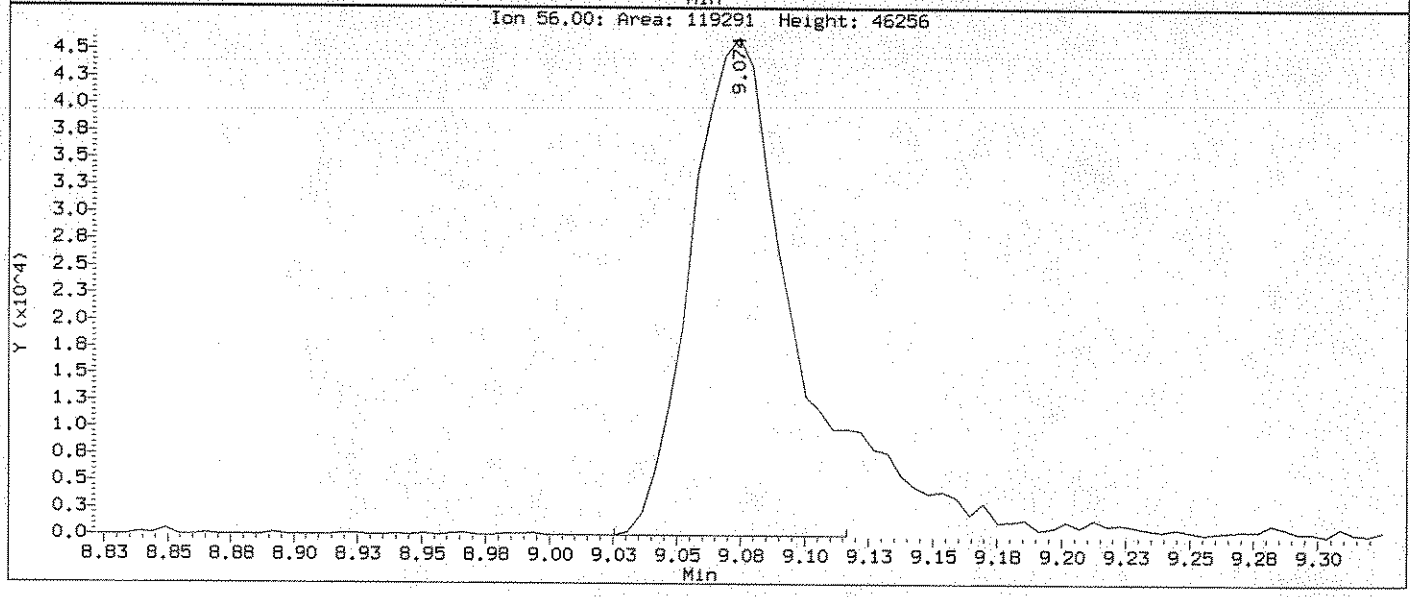
PDW
10-15-11

Data File: \\ELABNSHO5\TARGET\chem\bna3.i\101411b3.b\SEQ-CCV1.D
Injection Date: 14-OCT-2011 16:44
Instrument: bna3.i
Client Sample ID: CCV50PPM

Compound: Caprolactam
CAS Number: 105-60-2







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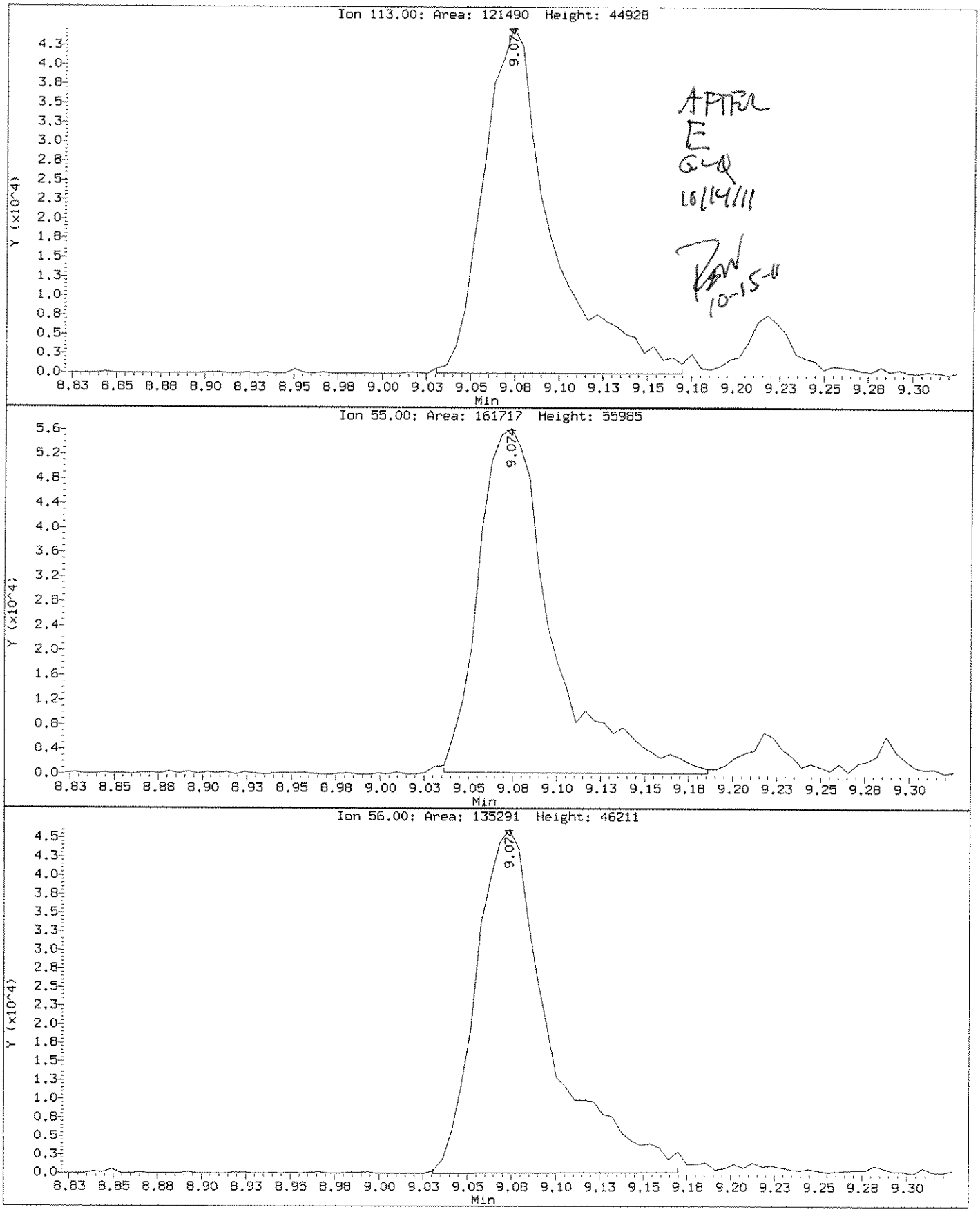
Injection Date: 14-OCT-2011 16:44
Instrument: bna3.i
Client Sample ID: CCV50PPM

Compound: Caprolactam
CAS Number: 105-60-2



Data File: \\ELABNSH05\TARGET\chem\bna3.i\101411b3.b\SEQ-CCV2.D
Report Date: 14-Oct-2011 18:06

Laboratory Name

Data file : \\ELABNSH05\TARGET\chem\bna3.i\101411b3.b\SEQ-CCV2.D
Lab Smp Id: SEQ-CCV2 Client Smp ID: CCV_INT2_50PPM
Inj Date : 14-OCT-2011 17:33 MS Autotune Date: 28-JUL-1998 06:19
Operator : GLQ Inst ID: bna3.i
Smp Info : CCV_INT2_50PPM;;;;;;11J0248
Misc Info : ;0;CCV;;;;ppbnax.sub;
Comment :
Method : \\ELABNSH05\TARGET\chem\bna3.i\101411b3.b\IXBN3.m
Meth Date : 14-Oct-2011 18:04 gquick Quant Type: ISTD
Cal Date : 30-APR-2011 01:58 Cal File: SEQ-CALG.D
Als bottle: 3
Dil Factor: 1.00000
Integrator: HP RTE Compound Sublist: ppbnax.sub
Target Version: 4.04
Processing Host: TARGET17_VM

BN 10-15-11

QLQ 10/14/11

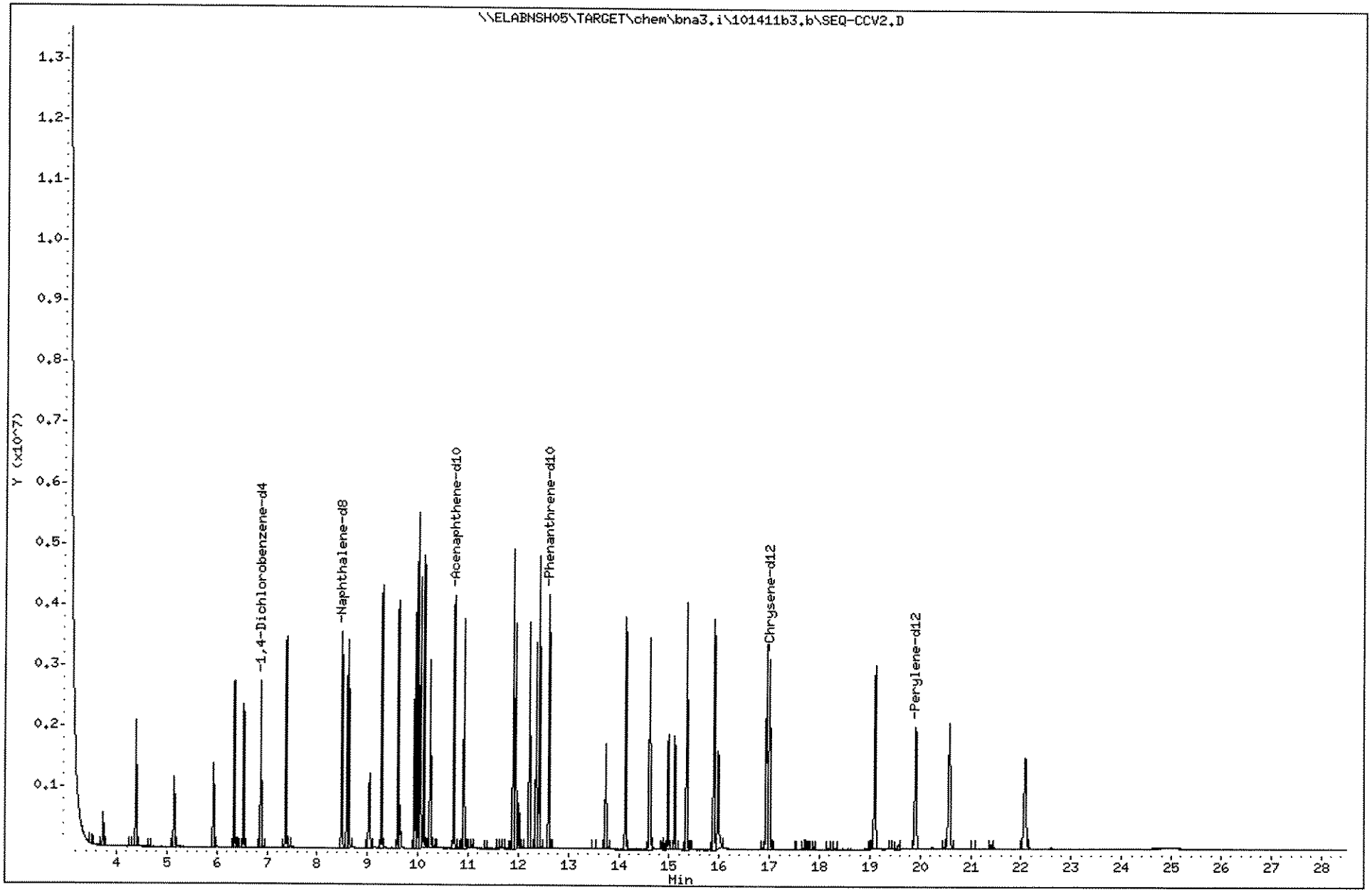
Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS ON-COLUMN (ng/ul)	FINAL (ng/ul)
* 1 1,4-Dichlorobenzene-d4	152	6.877	6.877	(1.000)	575955	40.0000	
5 1,4-Dioxane	88	3.736	3.736	(0.543)	271063	34.8240	34.82
32 Benzaldehyde	106	6.354	6.354	(0.924)	723791	49.7643	49.76
* 33 Naphthalene-d8	136	8.491	8.491	(1.000)	2097668	40.0000	
62 2,6-Dichlorophenol	162	8.597	8.597	(1.013)	840918	53.7235	53.72
57 Acetophenone	105	7.379	7.379	(1.073)	1348546	51.9740	51.97
67 1,2,4,5-Tetrachlorobenzene	216	9.607	9.607	(1.131)	1012484	57.5838	57.58
68 Caprolactam	113	9.041	9.041	(1.065)	285890	48.3116	48.31
* 69 Acenaphthene-d10	164	10.718	10.718	(1.000)	1317720	40.0000	
73 2-Chloronaphthalene	162	10.045	10.045	(0.937)	1771565	49.4377	49.44
100 1,1'-Biphenyl	154	9.986	9.986	(0.932)	2347910	49.3418	49.34
* 102 Phenanthrene-d10	188	12.609	12.609	(1.000)	2311777	40.0000	
129 Atrazine	200	12.225	12.225	(0.969)	684104	50.4838	50.48
* 132 Chrysene-d12	240	17.001	17.001	(1.000)	2341577	40.0000	
133 Benzidine	184	14.607	14.607	(0.859)	2514192	66.9716	66.97
137 3,3'-Dichlorobenzidine	252	16.942	16.942	(0.997)	1372751	57.6560	57.66
* 154 Perylene-d12	264	19.907	19.907	(1.000)	1860068	40.0000	

Data File: \\ELABNSH05\TARGET\chem\bna3.i\101411b3.b\SEQ-CCV2.D
Date : 14-OCT-2011 17:33
Client ID: CCV_INT2_50PPM
Sample Info: CCV_INT2_50PPM;;;;;;11J0248

Column phase: fused silica

Instrument: bna3.i

Operator: GLQ
Column diameter: 0.25



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Data File: \\ELABNSH04\DD\chem\bna3.i\101411b3.b\J03009B1.D
Report Date: 15-Oct-2011 09:58

Laboratory Name

Data file : \\ELABNSH04\DD\chem\bna3.i\101411b3.b\J03009B1.D
Lab Smp Id: 1J03009-BLK1
Inj Date : 14-OCT-2011 22:54 MS Autotune Date: 28-JUL-1998 06:19
Operator : GLQ Inst ID: bna3.i
Smp Info : 1J03009-BLK1;;15;1000;UG/KG;;04-OCT-2011
Misc Info : ;3;BLANK;;;1J03009;ppbnax.sub;
Comment :
Method : \\ELABNSH04\DD\chem\bna3.i\101411b3.b\IXBN3.m
Meth Date : 14-Oct-2011 18:07 gquick Quant Type: ISTD
Cal Date : 30-APR-2011 01:58 Cal File: SEQ-CALG.D
Als bottle: 11 QC Sample: BLANK
Dil Factor: 1.00000
Integrator: HP RTE Compound Sublist: ppbnax.sub
Target Version: 4.04
Processing Host: TARGET04_VM

Concentration Formula: Amt * DF * Uf * Vt*Vi/(Amt * Vi * (Solids/100))

Name	Value	Description
DF	1.000	Dilution Factor
Uf	1.000	ng unit correction factor
Vt	1000.000	Volume of final extract (uL)(1000 low, 2
Amt	15.000	Mass of initial extraction
Vi	0.500	Volume injected (uL)
Solids	100.000	Percent Solids

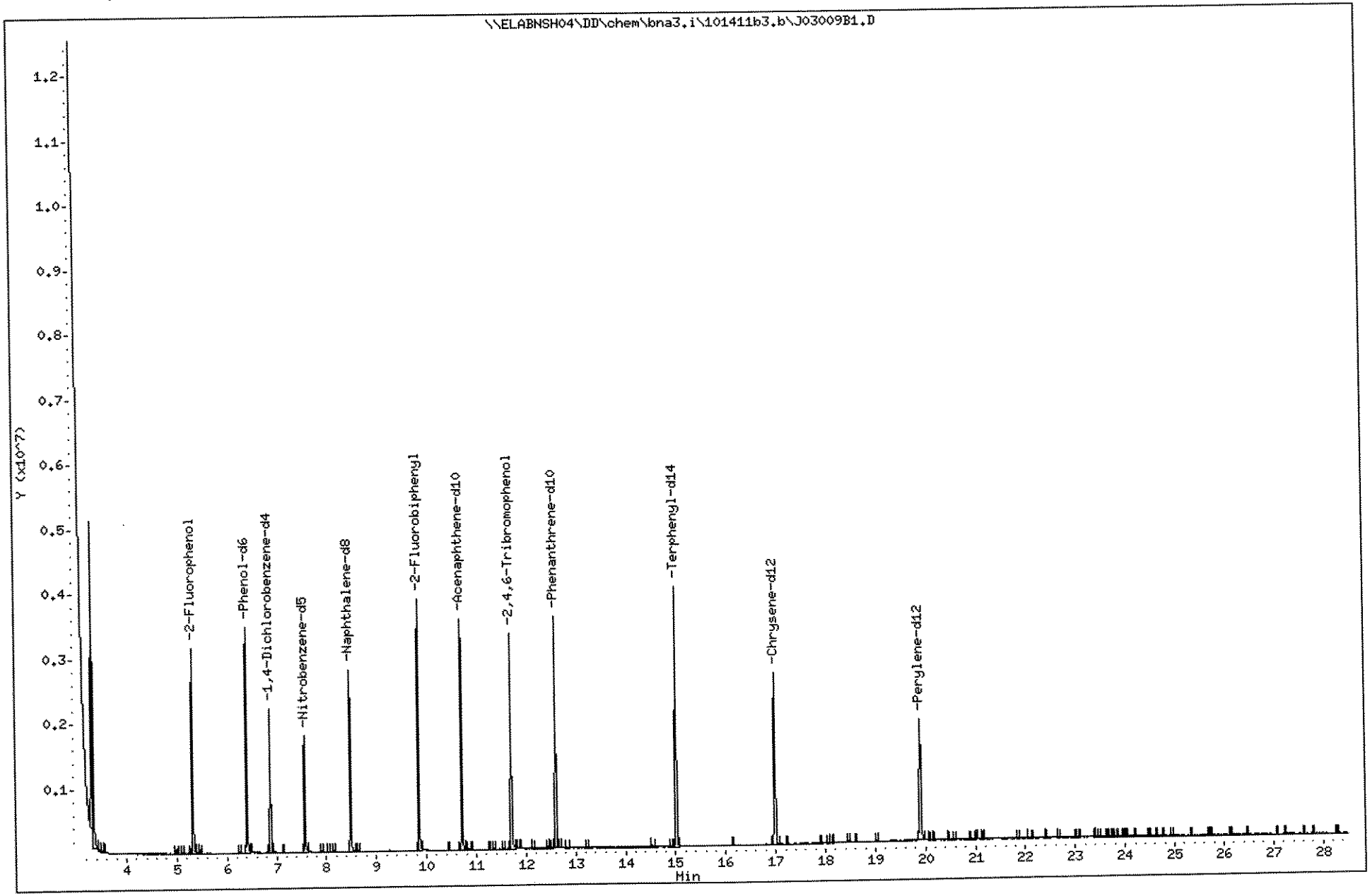
10-15-11 010118

Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS ON-COLUMN (ng/ul)	FINAL (ug/Kg)
* 1 1,4-Dichlorobenzene-d4	152	6.877	6.888	(1.000)	468231	40.0000	
$ 2 2-Fluorophenol	112	5.328	5.339	(0.775)	1156896	86.5292	5769
$ 3 Phenol-d6	99	6.407	6.418	(0.932)	1595123	86.6302	5775
* 33 Naphthalene-d8	136	8.490	8.501	(1.000)	1735068	40.0000	
$ 34 Nitrobenzene-d5	82	7.572	7.583	(0.892)	830693	46.9898	3133
* 69 Acenaphthene-d10	164	10.713	10.724	(1.000)	1144618	40.0000	
$ 74 2-Fluorobiphenyl	172	9.853	9.864	(0.920)	1645641	45.4465	3030
* 102 Phenanthrene-d10	188	12.599	12.615	(1.000)	1986159	40.0000	
$ 107 2,4,6-Tribromophenol	330	11.706	11.723	(0.929)	488505	89.5447	5970
* 132 Chrysene-d12	240	16.990	17.006	(1.000)	2025339	40.0000	
$ 135 Terphenyl-d14	244	15.013	15.019	(0.884)	2006431	53.1031	3540
* 154 Perylene-d12	264	19.901	19.918	(1.000)	1734214	40.0000	

Data File: \\ELABNSH04\DD\chem\bna3.i\101411b3.b\J03009B1.D
Date : 14-OCT-2011 22:54
Client ID:
Sample Info: 1J03009-BLK1;;15;1000;UG/KG;;04-OCT-2011
Volume Injected (uL): 0.5
Column phase: fused silica

Instrument: bna3.i

Operator: GLQ
Column diameter: 0.25



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Report Date: 15-Oct-2011 09:58

Laboratory Name

Data file : \\ELABNSH04\DD\chem\bna3.i\101411b3.b\J03009L1.D
Lab Smp Id: 1J03009-BS1
Inj Date : 14-OCT-2011 23:34 MS Autotune Date: 28-JUL-1998 06:19
Operator : GLQ Inst ID: bna3.i
Smp Info : 1J03009-BS1;;15;1000;UG/KG;;04-OCT-2011
Misc Info : ;3;LCS;;;1J03009;ppbnax.sub;
Comment :
Method : \\ELABNSH04\DD\chem\bna3.i\101411b3.b\IXBN3.m
Meth Date : 14-Oct-2011 18:07 gquick Quant Type: ISTD
Cal Date : 30-APR-2011 01:58 Cal File: SEQ-CALG.D
Als bottle: 12 QC Sample: LCS
Dil Factor: 1.00000
Integrator: HP RTE Compound Sublist: ppbnax.sub
Target Version: 4.04
Processing Host: TARGET04_VM

Concentration Formula: Amt * DF * Uf * Vt*Vi/(Amt * Vi * (Solids/100))

Name	Value	Description
DF	1.000	Dilution Factor
Uf	1.000	ng unit correction factor
Vt	1000.000	Volume of final extract (uL)(1000 low, 2
Amt	15.000	Mass of initial extraction
Vi	0.500	Volume injected (uL)
Solids	100.000	Percent Solids

10-15-11

Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS ON-COLUMN (ng/ul)	FINAL (ug/Kg)
* 1 1,4-Dichlorobenzene-d4	152	6.878	6.888	(1.000)	344288	40.0000	
$ 2 2-Fluorophenol	112	5.328	5.339	(0.775)	879627	89.4758	5965
$ 3 Phenol-d6	99	6.408	6.418	(0.932)	1279082	94.4739	6298
4 Pyridine	79	4.046	4.067	(0.588)	255996	20.0580	1337
5 1,4-Dioxane	88	3.726	3.752	(0.542)	67021	14.4041	960.3
6 N-Nitroso-di-methylamine	42	3.988	4.009	(0.580)	245553	41.6708	2778
7 Aniline	93	6.472	6.482	(0.941)	691857	38.2878	2552
10 Phenol	94	6.424	6.434	(0.934)	627569	43.2021	2880
11 bis(2-Chloroethyl)ether	93	6.536	6.546	(0.950)	506032	45.2996	3020
12 2-Chlorophenol	128	6.621	6.632	(0.963)	454549	40.1598	2677
13 1,3-Dichlorobenzene	146	6.808	6.819	(0.990)	495195	40.2960	2686
14 1,4-Dichlorobenzene	146	6.899	6.910	(1.003)	527301	42.3977	2826
15 Benzyl alcohol	108	7.043	7.054	(1.024)	339074	45.4497	3030

Data File: \\ELABNSH04\DD\chem\bna3.i\101411b3.b\J03009L1.D
Report Date: 15-Oct-2011 09:58

	Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS ON-COLUMN (ng/ul)	CONCENTRATIONS FINAL (ug/Kg)
	16 1,2-Dichlorobenzene	146	7.086	7.096	(1.030)	507365	43.5427	2903
	17 2-Methylphenol	108	7.177	7.187	(1.043)	446275	42.8988	2860(Q)
	18 2,2'-Oxybis-1-chloropropane	45	7.204	7.214	(1.047)	706574	42.1604	2811(Q)
	19 3-Methylphenol	108	7.369	7.385	(1.071)	502502	46.0274	3068
	20 4-Methylphenol	108	7.369	7.385	(1.071)	502502	46.0274	3068
	196 3-Methylphenol/4-Methylphenol	108	7.369	7.385	(1.071)	497208	45.5425	3036
	21 N-Nitroso-di-n-propylamine	70	7.374	7.385	(1.072)	518196	58.2272	3882(R)
	22 Hexachloroethane	117	7.513	7.524	(1.092)	195150	41.4902	2766
	32 Benzaldehyde	106	6.349	6.359	(0.923)	307617	35.3820	2359
*	33 Naphthalene-d8	136	8.491	8.501	(1.000)	1383306	40.0000	
$	34 Nitrobenzene-d5	82	7.572	7.583	(0.892)	646462	45.8674	3058
	35 Nitrobenzene	77	7.599	7.609	(0.895)	682028	48.0088	3200
	39 Isophorone	82	7.909	7.914	(0.931)	1158750	45.0191	3001
	40 2-Nitrophenol	139	8.000	8.010	(0.942)	265369	39.5245	2635
	42 2,4-Dimethylphenol	107	8.053	8.058	(0.948)	560257	44.5484	2970
	43 Benzoic acid	105	8.202	8.192	(0.966)	389393	42.0236	2802(M)
	44 bis(2-Chloroethoxy)methane	93	8.165	8.176	(0.962)	727442	49.2635	3284
	47 2,4-Dichlorophenol	162	8.309	8.320	(0.979)	475534	45.1325	3009
	62 2,6-Dichlorophenol	162	8.592	8.603	(1.012)	525759	50.9350	3396
	50 1,2,4-Trichlorobenzene	180	8.411	8.421	(0.991)	550519	46.5232	3102
	51 Naphthalene	128	8.518	8.528	(1.003)	1504065	43.6710	2911
	52 4-Chloroaniline	127	8.587	8.592	(1.011)	541310	37.0448	2470
	53 Hexachlorobutadiene	225	8.657	8.667	(1.020)	379966	58.8000	3920(R)
	54 4-Chloro-3-methylphenol	107	9.212	9.217	(1.085)	510521	47.4136	3161
	55 2-Methylnaphthalene	141	9.394	9.404	(1.106)	971162	47.0061	3134
	56 1-Methylnaphthalene	141	9.522	9.532	(1.121)	879199	43.2904	2886
	57 Acetophenone	105	7.380	7.390	(1.073)	766297	49.4065	3294
	67 1,2,4,5-Tetrachlorobenzene	216	9.602	9.613	(1.131)	611858	52.7693	3518
	68 Caprolactam	113	9.063	9.073	(1.067)	151702	38.8742	2592(Q)
*	69 Acenaphthene-d10	164	10.713	10.724	(1.000)	974395	40.0000	
	70 Hexachlorocyclopentadiene	237	9.586	9.591	(0.895)	273350	29.9255	1995
	71 2,4,6-Trichlorophenol	196	9.757	9.768	(0.911)	394217	42.3636	2824
	72 2,4,5-Trichlorophenol	196	9.810	9.821	(0.916)	417073	41.3294	2755
	73 2-Chloronaphthalene	162	10.013	10.029	(0.935)	1173630	44.2915	2953
$	74 2-Fluorobiphenyl	172	9.853	9.864	(0.920)	1399409	45.3979	3026
	75 2-Nitroaniline	65	10.147	10.158	(0.947)	405634	45.0018	3000
	76 Dimethylphthalate	163	10.366	10.382	(0.968)	1546502	51.0154	3401
	77 Acenaphthylene	152	10.537	10.553	(0.984)	1552154	36.9333	2462
	78 2,6-Dinitrotoluene	165	10.452	10.457	(0.976)	342018	46.9280	3128
	79 3-Nitroaniline	138	10.671	10.681	(0.996)	259407	32.9606	2197
	80 Acenaphthene	153	10.756	10.767	(1.004)	1137627	42.0594	2804
	81 2,4-Dinitrophenol	184	10.804	10.809	(1.008)	215682	47.7459	3183(a)
	83 4-Nitrophenol	65	10.895	10.900	(1.017)	286522	43.2162	2881
	84 Dibenzofuran	168	10.975	10.986	(1.024)	1769290	47.3133	3154
	85 2,4-Dinitrotoluene	165	10.959	10.970	(1.023)	481456	50.2929	3353
	86 Diethylphthalate	149	11.253	11.258	(1.050)	1568813	53.9046	3594
	87 4-Chlorophenyl-phenylether	204	11.397	11.408	(1.064)	779871	51.3590	3424

Data File: \\ELABNSH04\DD\chem\bna3.i\101411b3.b\J03009L1.D
Report Date: 15-Oct-2011 09:58

Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS ON-COLUMN (ng/ul)	FINAL (ug/Kg)
88 Fluorene	166	11.408	11.413	(1.065)	1495442	45.8981	3060
89 4-Nitroaniline	138	11.445	11.450	(1.068)	304122	38.1454	2543
96 2,3,4,6-Tetrachlorophenol	232	11.130	11.140	(1.039)	367794	45.1950	3013
100 1,1'-Biphenyl	154	9.987	9.997	(0.932)	1457651	41.4262	2762
* 102 Phenanthrene-d10	188	12.604	12.615	(1.000)	1769700	40.0000	
103 1,2-Diphenylhydrazine	77	11.595	11.605	(0.920)	1556992	41.3680	2758
104 Carbazole	167	12.925	12.935	(1.025)	1893619	40.9821	2732
105 4,6-Dinitro-2-methylphenol	198	11.472	11.477	(0.910)	292254	45.4268	3028
106 N-Nitrosodiphenylamine	169	11.547	11.557	(0.916)	945851	31.7716	2118
$ 107 2,4,6-Tribromophenol	330	11.712	11.723	(0.929)	445297	91.6083	6107
108 4-Bromophenyl-phenylether	248	12.011	12.022	(0.953)	508749	50.3292	3355
109 Hexachlorobenzene	284	12.092	12.097	(0.959)	489309	45.2595	3017
110 Pentachlorophenol	266	12.348	12.358	(0.980)	313129	43.6054	2907
111 Phenanthrene	178	12.636	12.647	(1.003)	2177167	45.7397	3049
112 Anthracene	178	12.706	12.716	(1.008)	2102017	43.4818	2899
115 Di-n-butylphthalate	149	13.384	13.395	(1.062)	2643695	50.5533	3370
116 Fluoranthene	202	14.378	14.388	(1.141)	2495748	45.7197	3048
129 Atrazine	200	12.220	12.225	(0.969)	449617	43.3430	2890
* 132 Chrysene-d12	240	16.996	17.006	(1.000)	1889930	40.0000	
133 Benzidine	184	14.597	14.613	(0.859)	452836	14.9450	996.3(a)
134 Pyrene	202	14.757	14.768	(0.868)	2532506	46.0574	3070
$ 135 Terphenyl-d14	244	15.008	15.019	(0.883)	1835694	52.0652	3471
136 Butylbenzylphthalate	149	15.906	15.922	(0.936)	1279892	52.8063	3520
137 3,3'-Dichlorobenzidine	252	16.937	16.947	(0.997)	731915	38.0870	2539
138 Benzo(a)anthracene	228	16.969	16.990	(0.998)	2415284	45.6706	3045
139 Chrysene	228	17.049	17.060	(1.003)	2288891	46.2311	3082
140 Bis(2-ethylhexyl)phthalate	149	17.054	17.070	(1.003)	1709210	53.2529	3550
* 154 Perylene-d12	264	19.896	19.918	(1.000)	1299412	40.0000	
155 Di-n-octylphthalate	149	18.385	18.400	(0.924)	2729456	69.7651	4651(R)
156 Benzo(b)fluoranthene	252	19.106	19.127	(0.960)	1799908	50.6601	3377
157 Benzo(k)fluoranthene	252	19.165	19.180	(0.963)	1845459	51.2842	3419
158 Benzo(a)pyrene	252	19.779	19.795	(0.994)	1504882	44.2936	2953
159 Indeno(1,2,3-cd)pyrene	276	22.551	22.573	(1.133)	1641825	48.6900	3246
160 Dibenz(a,h)anthracene	278	22.621	22.642	(1.137)	1631170	49.9887	3332
161 Benzo(g,h,i)perylene	276	23.342	23.353	(1.173)	1636269	48.7539	3250

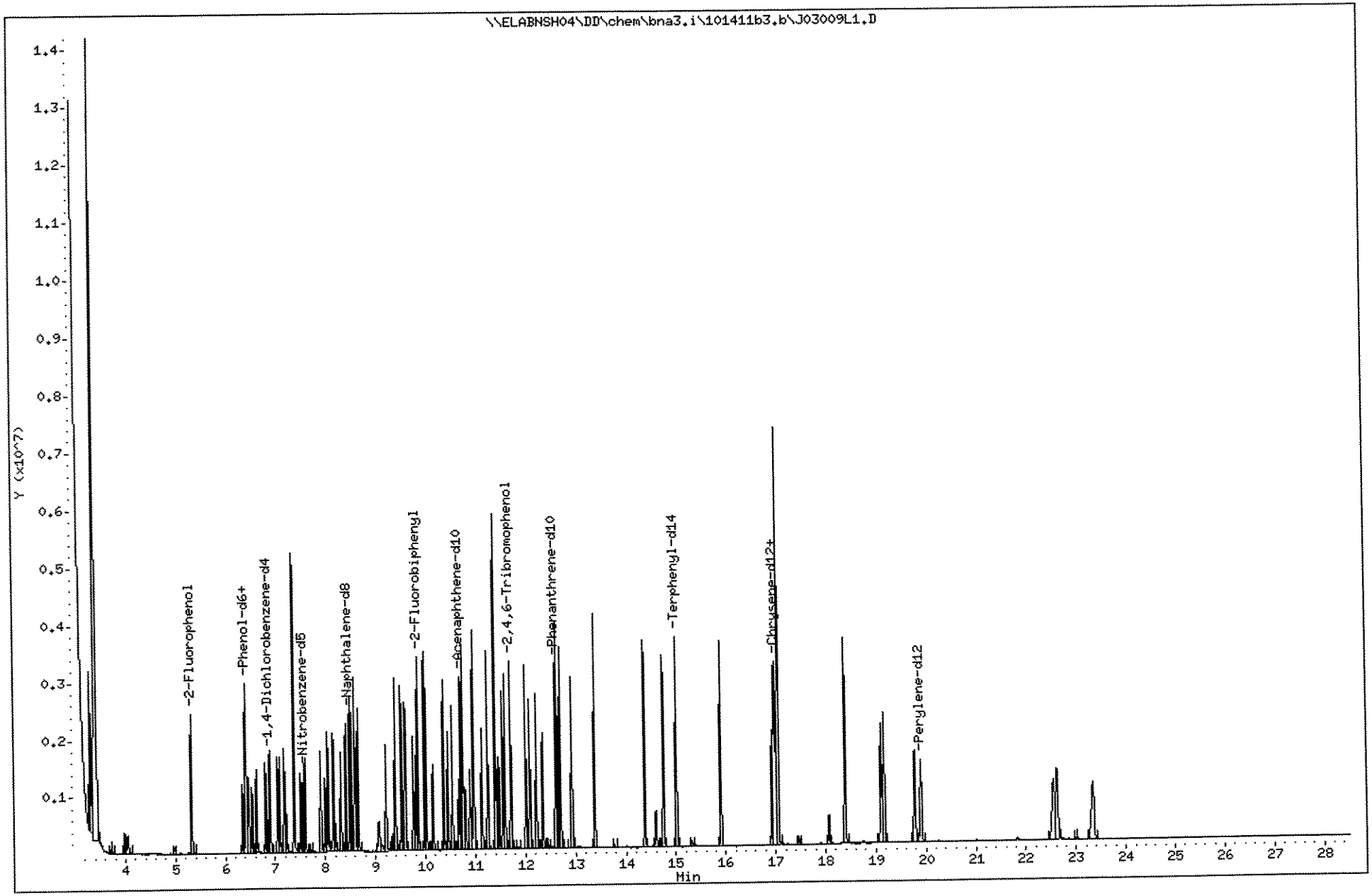
QC Flag Legend

a - Target compound detected but, quantitated amount Below Limit Of Quantitation(BLOQ).
Q - Qualifier signal failed the ratio test.
R - Spike/Surrogate failed recovery limits.
M - Compound response manually integrated.

Data File: \\ELABNSH04\DD\chem\bna3.i\101411b3.b\J03009L1.D
Date : 14-OCT-2011 23:34
Client ID:
Sample Info: 1J03009-BS1;;15;1000;UG/KG;;04-OCT-2011
Volume Injected (uL): 0.5
Column phase: fused silica

Instrument: bna3.i

Operator: GLQ
Column diameter: 0.25



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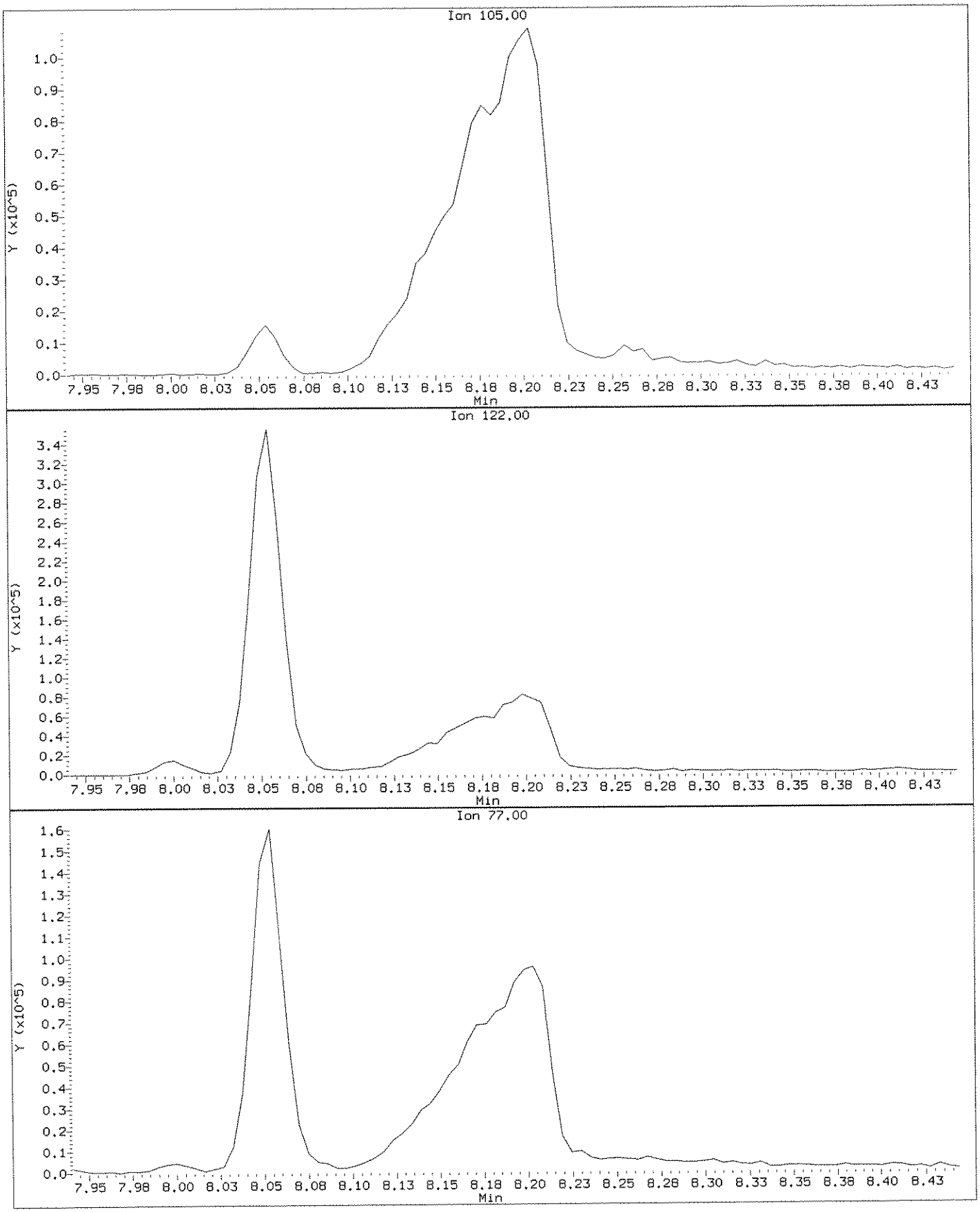
Data File: \\ELABNSHO4\DD\chem\bna3.i\101411b3.b\J03009L1.D
Injection Date: 14-OCT-2011 23:34
Instrument: bna3.i
Client Sample ID:

Compound: Benzoic acid
CAS Number: 65-85-0



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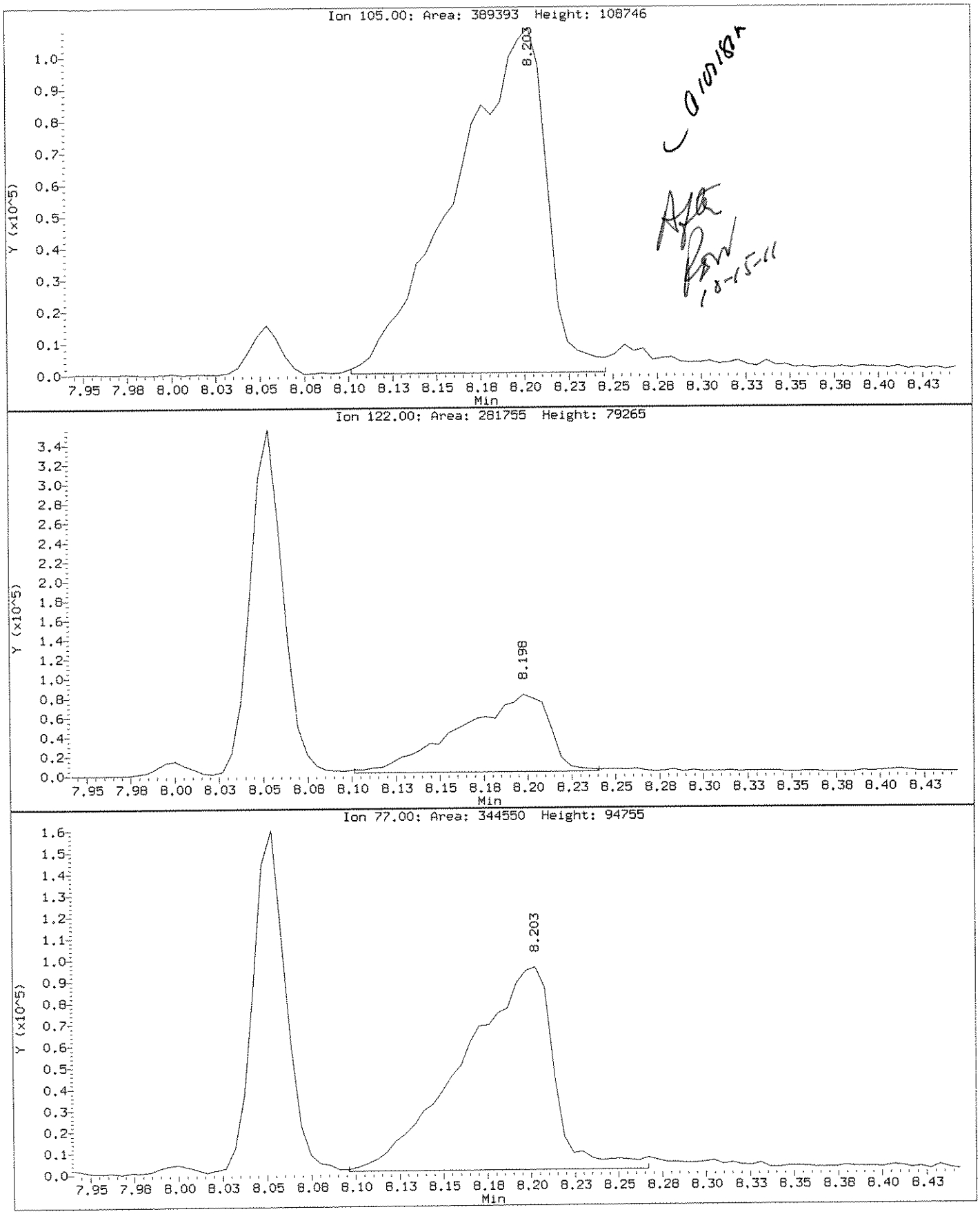
Injection Date: 14-OCT-2011 23:34
Instrument: bna3.i
Client Sample ID:

Compound: Benzoic acid
CAS Number: 65-85-0



Data File: \\ELABNSH04\DD\chem\bna3.i\101411b3.b\0919101.D
Report Date: 15-Oct-2011 10:35

Laboratory Name

Data file : \\ELABNSH04\DD\chem\bna3.i\101411b3.b\0919101.D
Lab Smp Id: 1109191-01 Client Smp ID: FLC-4-SS01-0006-092
Inj Date : 15-OCT-2011 01:33 MS Autotune Date: 28-JUL-1998 06:19
Operator : GLQ Inst ID: bna3.i
Smp Info : 1109191-01;;15;1000;UG/KG;;04-OCT-2011
Misc Info : ;0;;;;1J03009;ppbnax.sub;
Comment :
Method : \\ELABNSH04\DD\chem\bna3.i\101411b3.b\IXBN3.m
Meth Date : 15-Oct-2011 10:32 rward Quant Type: ISTD
Cal Date : 30-APR-2011 01:58 Cal File: SEQ-CALG.D
Als bottle: 15
Dil Factor: 1.00000
Integrator: HP RTE Compound Sublist: ppbnax.sub
Target Version: 4.04
Processing Host: TARGET04_VM

Concentration Formula: Amt * DF * Uf * Vt*Vi/(Amt * Vi * (Solids/100))

Name	Value	Description
DF	1.000	Dilution Factor
Uf	0.000	ng unit correction factor
Vt	1000.000	Volume of final extract (uL)(1000 low, 2
Amt	15.000	Mass of initial extraction
Vi	0.500	Volume injected (uL)
Solids	100.000	Percent Solids

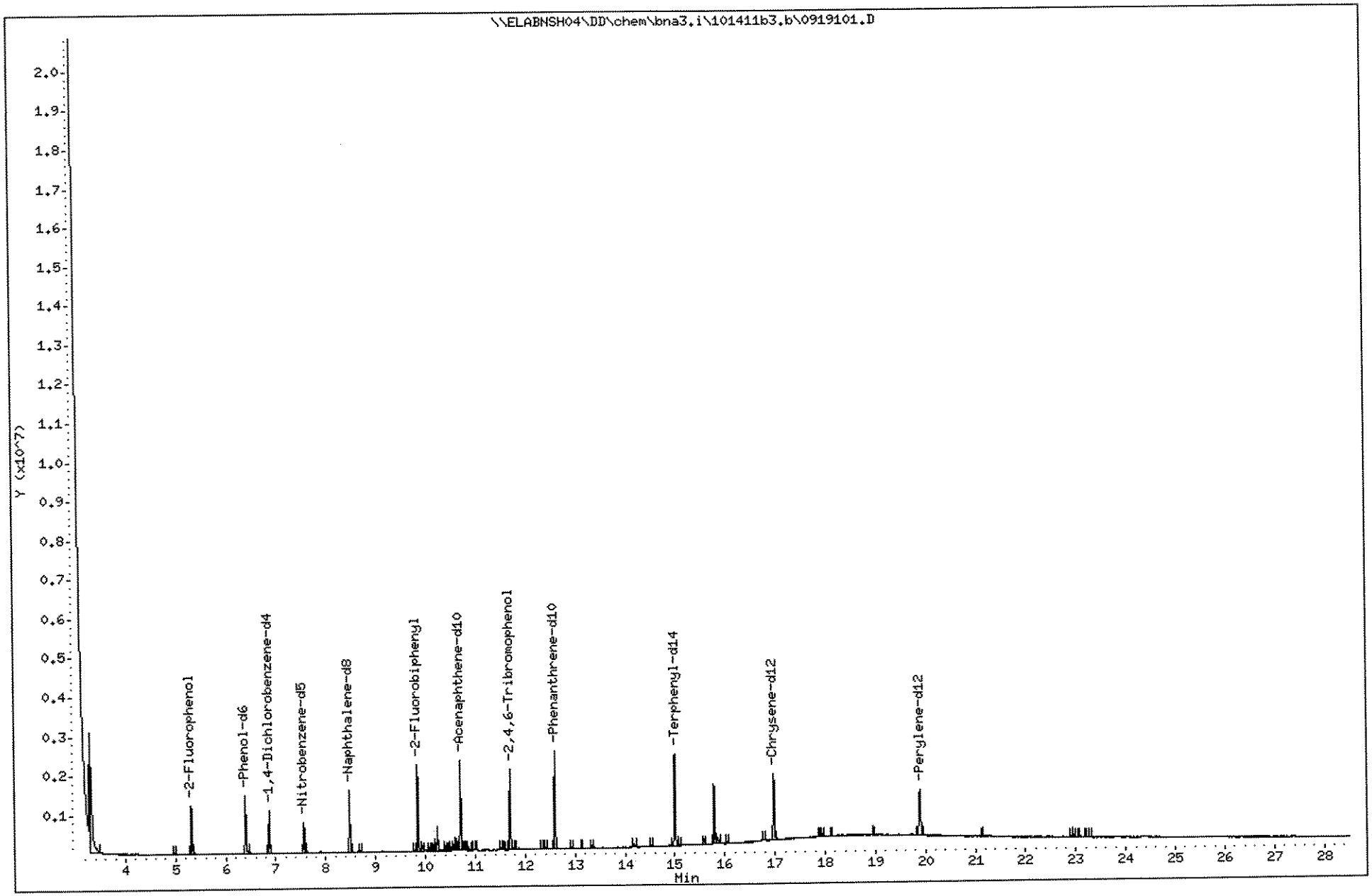
RZW 10-15-11 10/18

Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS ON-COLUMN (ng/ul)	FINAL (ug/Kg)
* 1 1,4-Dichlorobenzene-d4	152	6.872	6.888	(1.000)	230304	40.0000	
$ 2 2-Fluorophenol	112	5.318	5.339	(0.774)	467829	71.1401	71.14
$ 3 Phenol-d6	99	6.397	6.418	(0.931)	688548	76.0270	76.03
* 33 Naphthalene-d8	136	8.480	8.501	(1.000)	981561	40.0000	
$ 34 Nitrobenzene-d5	82	7.567	7.583	(0.892)	385971	38.5938	38.59
* 69 Acenaphthene-d10	164	10.708	10.724	(1.000)	724048	40.0000	
$ 74 2-Fluorobiphenyl	172	9.848	9.864	(0.920)	906763	39.5870	39.59
* 102 Phenanthrene-d10	188	12.594	12.615	(1.000)	1398926	40.0000	
$ 107 2,4,6-Tribromophenol	330	11.702	11.723	(0.929)	284561	74.0569	74.06
* 132 Chrysene-d12	240	16.980	17.006	(1.000)	1202843	40.0000	
$ 135 Terphenyl-d14	244	15.003	15.019	(0.884)	1189941	53.0286	53.03
* 154 Perylene-d12	264	19.886	19.918	(1.000)	1087894	40.0000	

Data File: \\ELABNSH04\DD\chem\bna3.i\101411b3.b\0919101.D
Date : 15-OCT-2011 01:33
Client ID: FLC-4-SS01-0006-092
Sample Info: 1109191-01;;15;1000;UG/KG;;04-OCT-2011
Volume Injected (uL): 0.5
Column phase: fused silica

Instrument: bna3.i

Operator: GLQ
Column diameter: 0.25



755

1109191

Data File: \\ELABNSH04\DD\chem\bna3.i\101411b3.b\0919102.D
Report Date: 15-Oct-2011 10:35

Laboratory Name

Data file : \\ELABNSH04\DD\chem\bna3.i\101411b3.b\0919102.D
Lab Smp Id: 1109191-02 Client Smp ID: FLC-4-SS01-0624-092
Inj Date : 15-OCT-2011 02:12 MS Autotune Date: 28-JUL-1998 06:19
Operator : GLQ Inst ID: bna3.i
Smp Info : 1109191-02;;15;1000;UG/KG;;04-OCT-2011
Misc Info : ;0;;;;1J03009;ppbnax.sub;
Comment :
Method : \\ELABNSH04\DD\chem\bna3.i\101411b3.b\IXBN3.m
Meth Date : 15-Oct-2011 10:32 rward Quant Type: ISTD
Cal Date : 30-APR-2011 01:58 Cal File: SEQ-CALG.D
Als bottle: 16
Dil Factor: 1.00000
Integrator: HP RTE Compound Sublist: ppbnax.sub
Target Version: 4.04
Processing Host: TARGET04_VM

Concentration Formula: Amt * DF * Uf * Vt*Vi/(Amt * Vi * (Solids/100))

Name	Value	Description
DF	1.000	Dilution Factor
Uf	0.000	ng unit correction factor
Vt	1000.000	Volume of final extract (uL)(1000 low, 2
Amt	15.000	Mass of initial extraction
Vi	0.500	Volume injected (uL)
Solids	100.000	Percent Solids

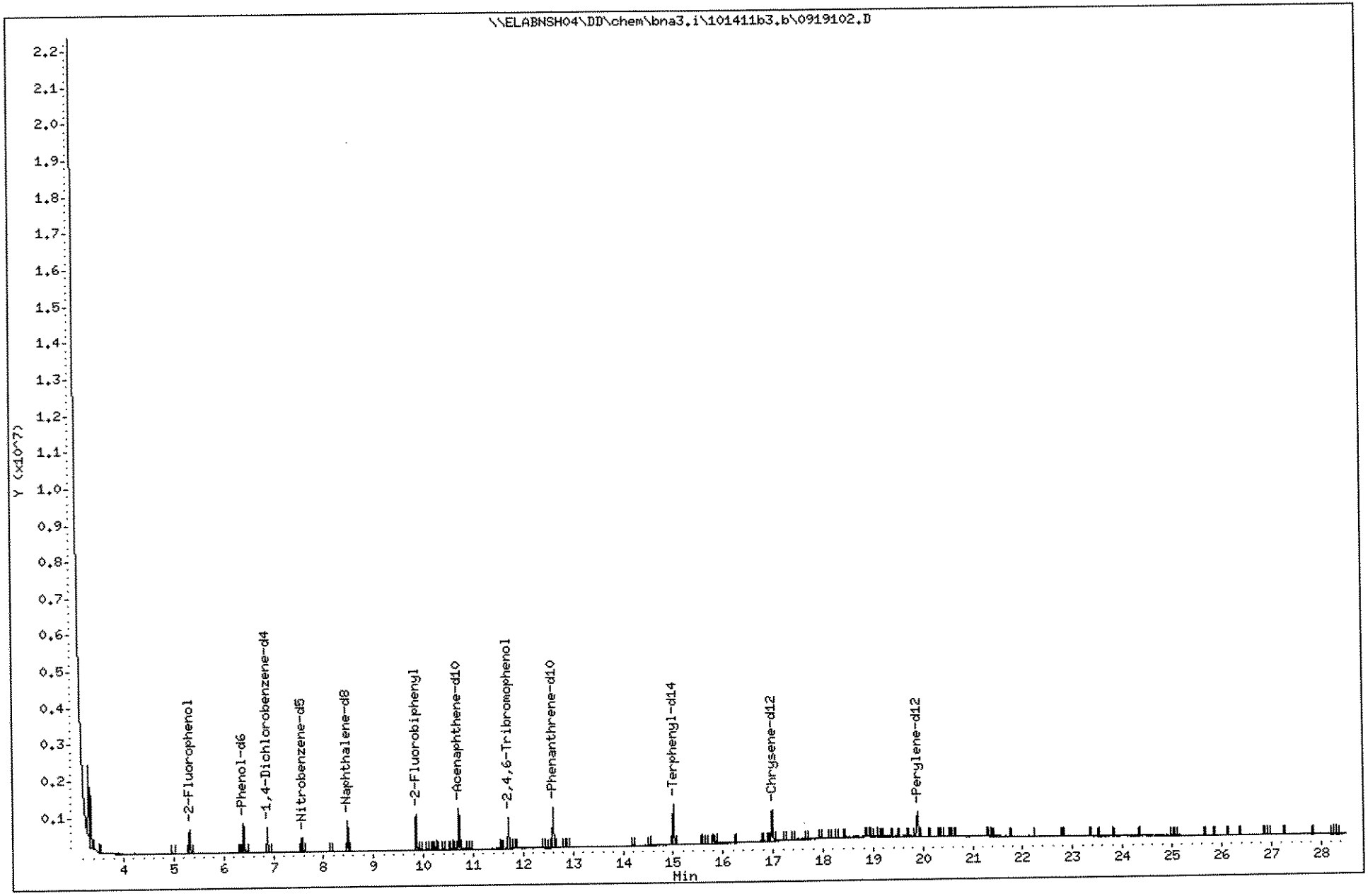
10-15-11 0101

Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS ON-COLUMN (ng/ul)	FINAL (ug/Kg)
* 1 1,4-Dichlorobenzene-d4	152	6.877	6.888	(1.000)	147132	40.0000	
$ 2 2-Fluorophenol	112	5.323	5.339	(0.774)	272203	64.7910	64.79
$ 3 Phenol-d6	99	6.402	6.418	(0.931)	391298	67.6294	67.63
* 33 Naphthalene-d8	136	8.485	8.501	(1.000)	534222	40.0000	
$ 34 Nitrobenzene-d5	82	7.566	7.583	(0.892)	203513	37.3895	37.39
* 69 Acenaphthene-d10	164	10.713	10.724	(1.000)	358841	40.0000	
$ 74 2-Fluorobiphenyl	172	9.853	9.864	(0.920)	449643	39.6088	39.61
* 102 Phenanthrene-d10	188	12.599	12.615	(1.000)	650860	40.0000	
$ 107 2,4,6-Tribromophenol	330	11.706	11.723	(0.929)	132139	73.9143	73.91
* 132 Chrysene-d12	240	16.985	17.006	(1.000)	620367	40.0000	
$ 135 Terphenyl-d14	244	15.008	15.019	(0.884)	534717	46.2028	46.20
* 154 Perylene-d12	264	19.891	19.918	(1.000)	606405	40.0000	

Data File: \\ELABNSH04\DD\chem\bna3.i\101411b3.b\0919102.D
Date : 15-OCT-2011 02:12
Client ID: FLC-4-SS01-0624-092
Sample Info: 1109191-02;;15;1000;UG/KG;;04-OCT-2011
Volume Injected (uL): 0.5
Column phase: fused silica

Instrument: bna3.i

Operator: GLQ
Column diameter: 0.25



757

1109191

Data File: \\ELABNSH04\DD\chem\bna3.i\101411b3.b\0919105.D
Report Date: 15-Oct-2011 10:35

Laboratory Name

Data file : \\ELABNSH04\DD\chem\bna3.i\101411b3.b\0919105.D
Lab Smp Id: 1109191-05 Client Smp ID: FLC-4-SS02-0624-092
Inj Date : 15-OCT-2011 03:32 MS Autotune Date: 28-JUL-1998 06:19
Operator : GLQ Inst ID: bna3.i
Smp Info : 1109191-05;;15;1000;UG/KG;;04-OCT-2011
Misc Info : ;0;;;;1J03009;ppbnax.sub;
Comment :
Method : \\ELABNSH04\DD\chem\bna3.i\101411b3.b\IXBN3.m
Meth Date : 15-Oct-2011 10:32 rward Quant Type: ISTD
Cal Date : 30-APR-2011 01:58 Cal File: SEQ-CALG.D
Als bottle: 18
Dil Factor: 1.00000
Integrator: HP RTE Compound Sublist: ppbnax.sub
Target Version: 4.04
Processing Host: TARGET04_VM

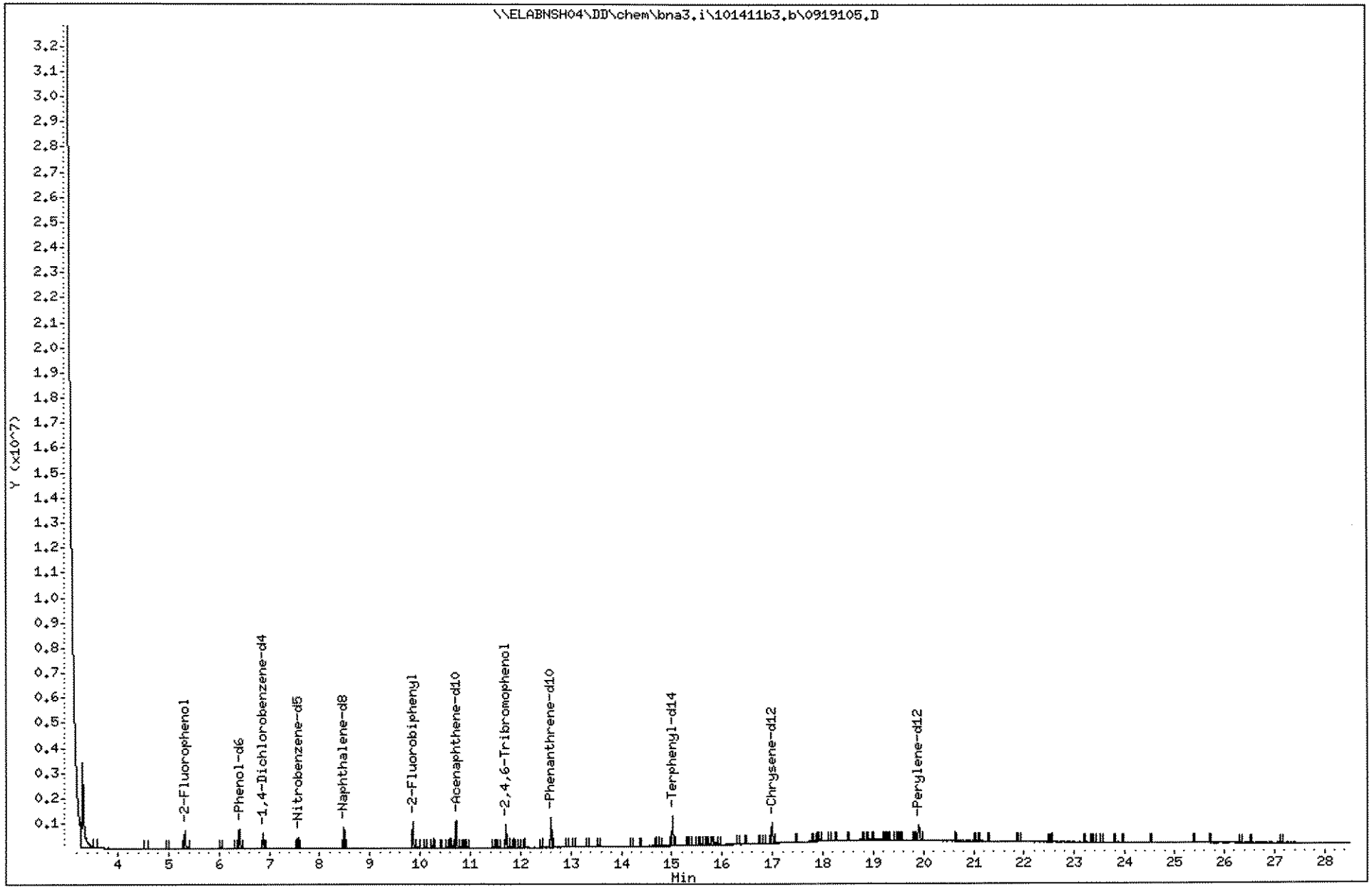
Concentration Formula: Amt * DF * Uf * Vt*Vi/(Amt * Vi * (Solids/100))

Name	Value	Description
DF	1.000	Dilution Factor
Uf	0.000	ng unit correction factor
Vt	1000.000	Volume of final extract (uL)(1000 low, 2
Amt	15.000	Mass of initial extraction
Vi	0.500	Volume injected (uL)
Solids	100.000	Percent Solids

10-15-11

Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS ON-COLUMN (ng/ul)	FINAL (ug/Kg)
* 1 1,4-Dichlorobenzene-d4	152	6.882	6.888	(1.000)	132803	40.0000	
$ 2 2-Fluorophenol	112	5.328	5.339	(0.774)	294368	77.6268	77.63
$ 3 Phenol-d6	99	6.407	6.418	(0.931)	395808	75.7900	75.79
* 33 Naphthalene-d8	136	8.490	8.501	(1.000)	529101	40.0000	
$ 34 Nitrobenzene-d5	82	7.571	7.583	(0.892)	216973	40.2482	40.25
* 69 Acenaphthene-d10	164	10.718	10.724	(1.000)	375935	40.0000	
$ 74 2-Fluorobiphenyl	172	9.858	9.864	(0.920)	484041	40.7001	40.70
* 102 Phenanthrene-d10	188	12.604	12.615	(1.000)	670551	40.0000	
$ 107 2,4,6-Tribromophenol	330	11.712	11.723	(0.929)	144287	78.3394	78.34
* 132 Chrysene-d12	240	16.990	17.006	(1.000)	622337	40.0000	
$ 135 Terphenyl-d14	244	15.013	15.019	(0.884)	588184	50.6618	50.66
* 154 Perylene-d12	264	19.906	19.918	(1.000)	588386	40.0000	

Data File: \\ELABNSH04\DD\chem\bna3.i\101411b3.b\0919105.D
Date : 15-OCT-2011 03:32
Client ID: FLC-4-SS02-0624-092
Instrument: bna3.i
Sample Info: 1109191-05;;15;1000;UG/KG;;04-OCT-2011
Volume Injected (uL): 0.5
Operator: CLQ
Column phase: fused silica
Column diameter: 0.25



759

1109191

Sequence Name: C:\HPCHEM\1\SEQUENCE\101511B3.S
Comment: epa8270c
Operator: ~~OLQ~~ RDW
Data Path: C:\HPCHEM\1\DATA\101511b3\
Pre-Seq Cmd:
Post-Seq Cmd:

Method Sections To Run
(X) Full Method
( ) Reprocessing Only

On A Barcode Mismatch
(X) Inject Anyway
( ) Don't Inject

Line	Type	Vial	DataFile	Method	Sample Name
1	DFTPP	1	SEQ-TUN1	DFTPPBN3	DF1015B1;;;;;;11H0721 1306 10-15
2	DailyCal	2	SEQ-CCV1	IXBN3	CCV50PPM;;;;;;11J0398
3	Sample	3	SEQ-CCV2	IXBN3	CCV_INT2_50PPM;;;;;;11J0248
4	Sample	4	0919103	IXBN3	1109191-03;;15;1000;UG/KG;;04
5	Sample	5	1008405	IXBN3	1110084-05;;15;1000;UG/KG;;13
6	Sample	6	1008601	IXBN3	1110086-01;;15;1000;UG/KG;;13
7	Sample	7	1008801	IXBN3	1110088-01;;15;1000;UG/KG;;13
8	Sample	8	1009901	IXBN3	1110099-01;;15;1000;UG/KG;;13
9	Sample	9	919102MS	IXBN3	1J03009-MS1;;15;1000;UG/KG;;0
10	Sample	10	919102MD	IXBN3	1J03009-MSD1;;15;1000;UG/KG;;
11	Sample	11	0919106	IXBN3	1109191-06;;15;1000;UG/KG;;04
12	Sample	12	0919104D	IXBN3-5x	1109191-04;;15;1000;UG/KG;;04
13	Sample	13	0919202D	IXBN3-2x	1109192-02;;15;1000;UG/KG;;04
14	Sample	14	0919203	IXBN3	1109192-03;;15;1000;UG/KG;;04
15	Sample	15	0919205D	IXBN3-2x	1109192-05;;15;1000;UG/KG;;04
16	Sample	16	0919207D	IXBN3-2x	1109192-07;;15;1000;UG/KG;;04
17	Sample	17	0919209	IXBN3	1109192-09;;15;1000;UG/KG;;04
18	Sample	18	0919210	IXBN3	1109192-10;;15;1000;UG/KG;;04
19	Sample	19	0919201D	IXBN3-5x	1109192-01;;15;1000;UG/KG;;04 0049 10-16

Data File: \\ELABNSH04\DD\chem\bna3.i\101511b3.b\SEQ-TUN1.D

Date : 15-OCT-2011 13:06

Client ID: SEQ-TUN1.D

Instrument: bna3.i

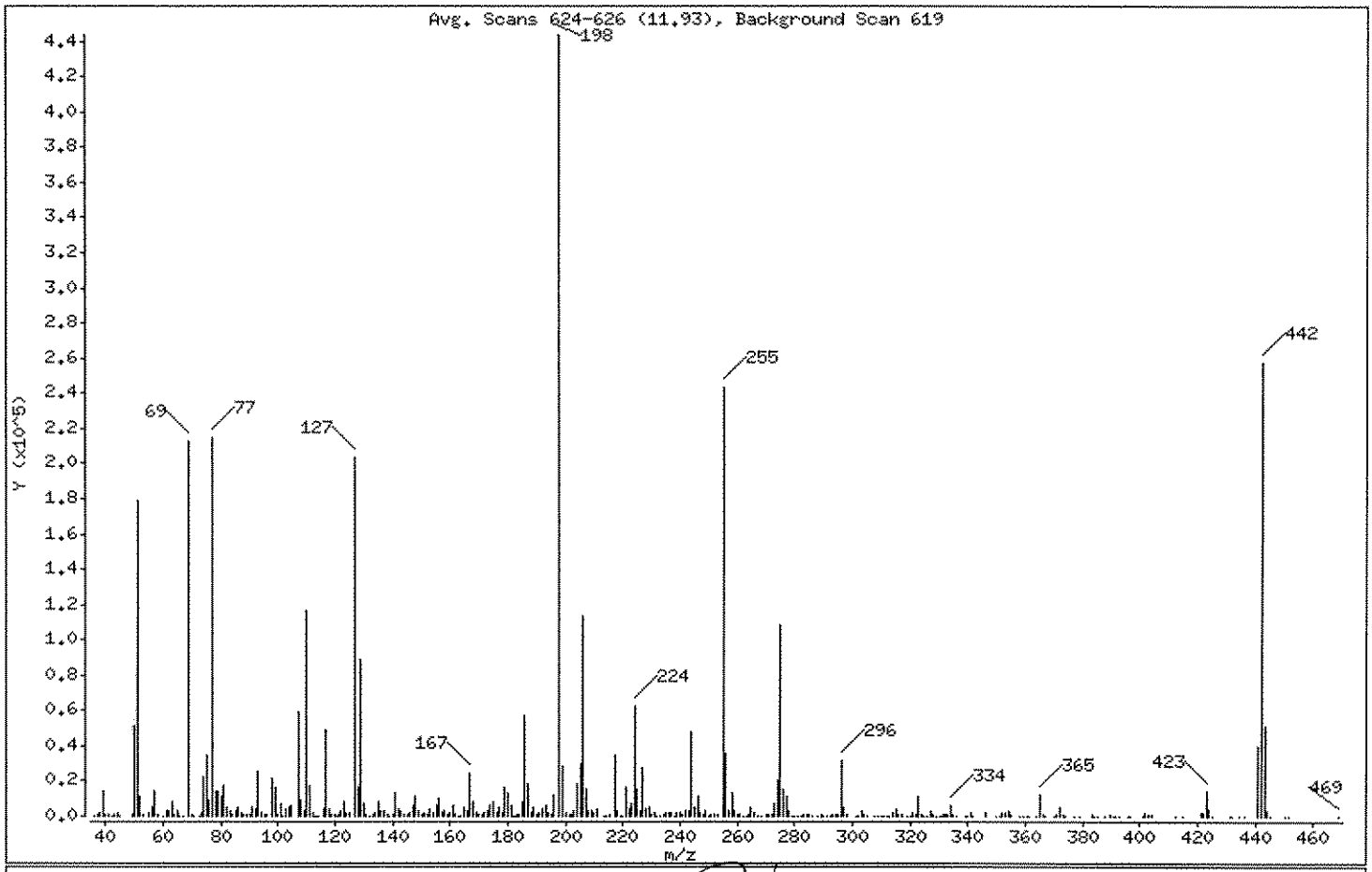
Sample Info: DF1015B1;;;;;;11H0721

Operator: RDW

Column phase: DB5-MS

Column diameter: 0.25

1 dftpp



RDW 10-15-11

m/e	ION ABUNDANCE CRITERIA	% RELATIVE ABUNDANCE
198	Base Peak, 100% relative abundance	100.00
51	30.00 - 60.00% of mass 198	40.43
68	Less than 2.00% of mass 69	0.00 (0.00)
69	Mass 69 relative abundance	47.90
70	Less than 2.00% of mass 69	0.29 (0.61)
127	40.00 - 60.00% of mass 198	45.93
197	Less than 1.00% of mass 198	0.00
199	5.00 - 9.00% of mass 198	6.40
275	10.00 - 30.00% of mass 198	24.41
365	Greater than 1.00% of mass 198	2.75
441	Present, but less than mass 443	8.89
442	Greater than 40.00% of mass 198	57.98
443	17.00 - 23.00% of mass 442	11.43 (19.71)

Data File: \\ELABNSH04\DD\chem\bna3.i\101511b3.b\SEQ-TUN1.D

Date : 15-OCT-2011 13:06

Client ID: SEQ-TUN1.D

Instrument: bna3.i

Sample Info: DF1015B1;;;;;;11H0721

Operator: RDW

Column phase: DB5-MS

Column diameter: 0.25

Data File: SEQ-TUN1.D
Spectrum: Avg. Scans 624-626 (11.93), Background Scan 619
Location of Maximum: 198.00
Number of points: 346

m/z	Y	m/z	Y	m/z	Y	m/z	Y
35.80	266	131.00	948	219.70	192	311.00	151
37.10	625	132.10	452	221.00	16480	312.00	347
38.10	2441	133.20	1349	222.00	4485	312.90	290
39.10	14062	134.10	2174	223.10	6882	314.00	1608
40.00	732	135.00	7704	224.10	62152	314.90	4222
41.00	1036	136.10	2904	225.00	15629	315.90	1526
42.20	160	137.00	2801	226.10	2570	317.10	644
43.20	554	138.20	762	227.00	27944	318.80	271
44.00	1851	139.00	421	228.10	4306	319.90	231
44.90	482	140.10	771	229.10	5215	321.00	1878
49.20	1348	141.00	13599	230.00	730	321.90	1392
50.10	51216	142.10	3593	231.00	1843	323.00	10950
51.10	179392	143.00	2705	231.90	205	324.10	1489
52.10	11104	143.90	678	233.00	456	324.90	315
53.10	668	145.00	1341	234.00	1480	325.90	195
55.10	2000	146.10	1659	235.10	2481	326.90	2715
56.10	4969	147.00	6346	236.00	1627	328.00	731
57.10	14323	148.00	10909	237.10	1953	328.90	106
58.10	792	149.00	3487	238.00	393	330.10	88
60.10	245	150.20	1069	239.00	1603	331.00	99
61.20	2831	151.10	1795	239.90	1723	331.80	720
62.10	3222	152.00	521	240.90	1081	332.10	613
63.10	8377	153.10	3668	242.00	3106	332.90	844
64.00	1198	153.90	2475	243.00	3503	334.00	5654
65.20	3055	155.10	5773	244.00	47864	335.00	1448
66.00	248	156.10	10639	245.10	5539	336.00	52
67.00	376	157.10	1662	246.00	11128	339.00	254
69.00	212544	158.10	3177	247.00	2347	339.80	179
70.00	1299	159.00	1196	247.90	676	341.00	1577
71.10	435	160.00	2208	249.10	2776	341.90	266
72.40	192	161.10	5936	250.00	265	345.90	2278
73.10	1801	162.00	1314	251.00	768	349.70	101
74.00	22808	163.10	183	251.90	677	350.90	380
75.00	34680	163.80	287	253.00	1420	351.90	2519
76.10	9055	165.00	5400	255.00	243136	353.00	1565

Data File: \\ELABNSH04\DD\chem\bna3.i\101511b3.b\SEQ-TUN1.D

Date : 15-OCT-2011 13:06

Client ID: SEQ-TUN1.D | Instrument: bna3.i

Sample Info: DF1015B1;;;;;;11H0721

Operator: RDW

Column phase: DB5-MS | Column diameter: 0.25

Data File: SEQ-TUN1.D
Spectrum: Avg. Scans 624-626 (11.93), Background Scan 619
Location of Maximum: 198.00
Number of points: 346

m/z	Y	m/z	Y	m/z	Y	m/z	Y
77.10	214208	166.10	3136	256.00	36088	354.00	2830
78.10	14730	167.00	24560	257.00	3278	355.00	855
79.10	13832	168.10	8040	258.00	13202	358.00	70
80.00	11352	169.10	1605	259.00	3164	359.00	347
81.10	17072	169.90	1195	260.00	913	360.30	75
82.10	5116	171.00	1048	261.00	523	361.00	411
83.10	3567	172.00	1755	261.90	51	363.80	134
84.00	1098	173.10	3124	263.10	236	364.90	12218
85.10	3011	174.00	5642	264.20	993	366.00	1101
86.00	4864	175.10	7796	264.90	4999	366.90	254
87.00	1841	176.10	1893	265.90	1944	370.00	255
88.00	749	177.00	5340	267.10	150	370.90	1274
89.00	539	178.00	1608	268.70	90	372.00	4680
90.30	543	179.00	15889	270.10	840	373.10	1448
91.10	4761	180.10	13452	271.00	865	373.80	433
92.00	4243	181.10	6108	272.00	866	377.10	194
93.10	25384	181.80	331	273.00	7018	378.90	147
94.10	1907	182.30	269	274.00	20728	383.00	983
95.20	558	183.20	565	275.00	108328	384.00	132
96.20	1395	184.00	995	276.00	15030	385.10	270
98.10	21280	185.10	8541	277.00	11680	387.60	111
99.00	16400	186.00	57416	278.00	2962	389.90	654
100.00	990	187.10	18120	278.90	420	390.90	407
101.00	7594	188.10	1742	280.00	403	391.80	93
101.80	200	189.00	4952	281.10	311	393.00	246
103.00	4322	190.00	1419	282.20	436	395.90	134
104.10	5227	191.00	1902	283.00	1385	396.60	104
105.10	5956	192.00	3952	284.00	1008	400.70	287
107.10	59088	193.10	6639	285.00	1014	401.90	2030
108.10	8728	194.10	1958	286.20	184	402.90	1353
109.10	2669	195.10	1105	287.70	286	404.00	1002
110.00	116336	196.00	12383	288.20	173	412.40	111
111.00	17168	198.00	443712	289.00	767	414.90	92
112.20	2420	199.00	28408	290.00	161	420.90	1829
112.90	451	200.00	2419	291.00	222	422.10	2299

Data File: \\ELABNSH04\DD\chem\bna3.i\101511b3.b\SEQ-TUN1.D

Date : 15-OCT-2011 13:06

Client ID: SEQ-TUN1.D | Instrument: bna3.i

Sample Info: DF1015B1;;;;;;11H0721

Operator: RDW

Column phase: DB5-MS | Column diameter: 0.25

Data File: SEQ-TUN1.D
Spectrum: Avg. Scans 624-626 (11.93), Background Scan 619
Location of Maximum: 198.00
Number of points: 346

m/z	Y	m/z	Y	m/z	Y	m/z	Y
114.00	74	201.40	1467	292.10	453	422.90	14658
114.60	243	202.10	636	293.00	1447	424.00	3850
116.10	3774	203.00	2929	294.00	1130	424.80	141
117.00	48936	204.10	18416	294.60	275	431.00	145
118.00	3716	205.00	29960	295.10	917	432.10	63
118.90	566	206.10	113880	296.00	31744	434.20	150
120.10	661	207.00	14830	296.90	4873	436.60	252
120.50	482	208.00	3093	298.10	700	440.90	39432
121.10	555	209.00	3161	301.00	424	442.00	257280
122.10	3424	209.90	2010	302.00	346	443.00	50704
123.10	8219	211.00	4279	303.00	3022	444.10	3547
124.00	2460	213.30	439	304.00	1303	445.20	57
125.10	1623	214.20	408	305.20	208	450.30	253
127.10	203776	215.10	767	307.60	138	451.40	93
128.00	16840	217.00	34360	308.90	315	468.80	152
129.00	88520	218.00	3323	309.80	212		
130.10	7120	219.00	473	310.20	187		

Data File: \\ELABNSH04\DD\chem\bna3.i\101511b3.b\SEQ-TUN1.D
Date : 15-OCT-2011 13:06
Client ID: SEQ-TUN1.D
Sample Info: DF1015B1;;;;;;11H0721

Instrument: bna3.i

Operator: RDW

Column phase: DB5-MS
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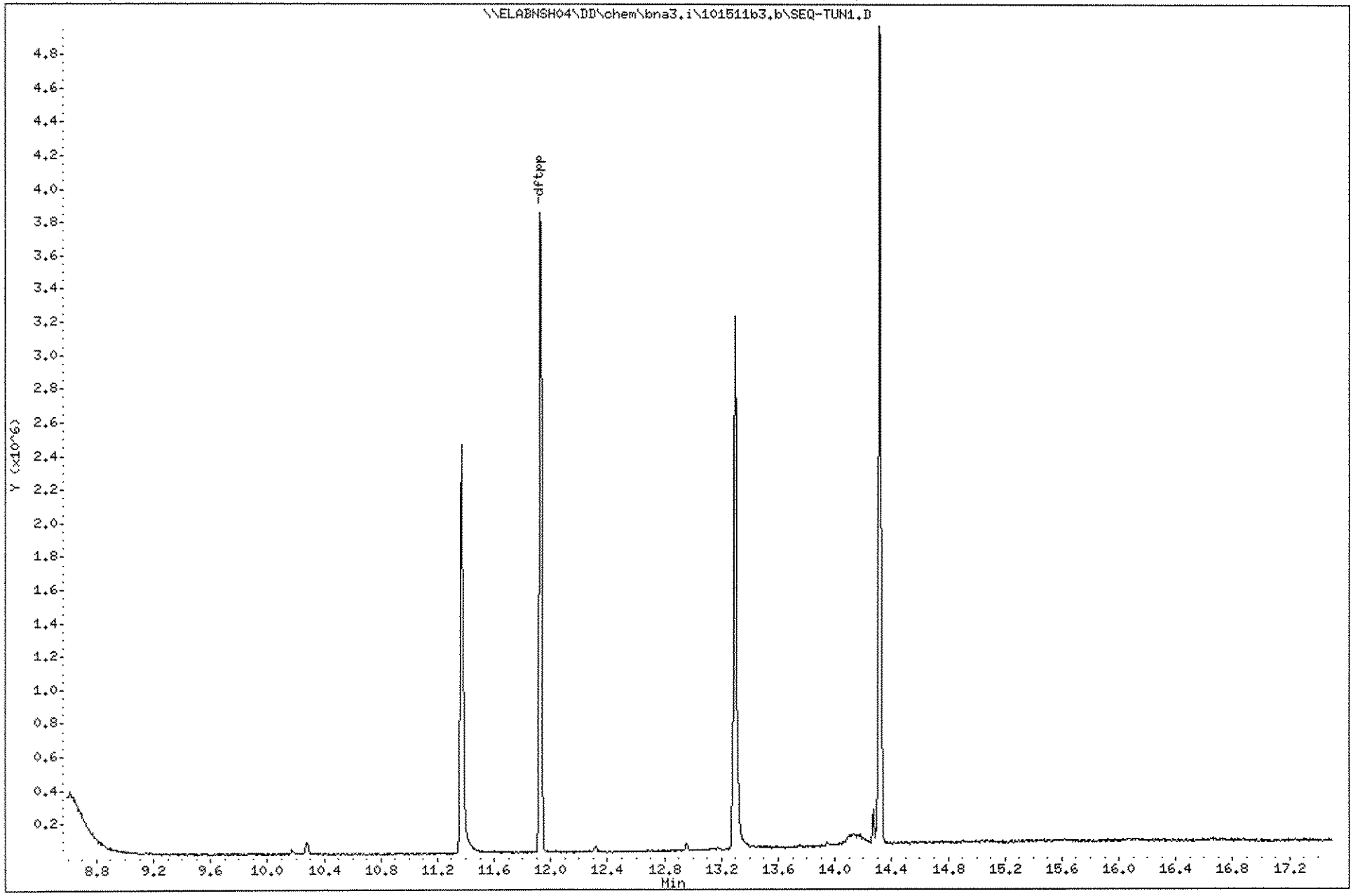

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Report Date: 15-Oct-2011 13:40

Laboratory Name

Data file : \\ELABNSH04\DD\chem\bna3.i\101511b3.b\SEQ-TUN1ex.D
Lab Smp Id: SEQ-TUN1.D Client Smp ID: SEQ-TUN1.D
Inj Date : 15-OCT-2011 13:06
Operator : RDW Inst ID: bna3.i
Smp Info : DF1015B1;;;;;;11H0721
Misc Info : ;;;;;;;all.sub;
Comment :
Method : \\ELABNSH04\DD\chem\bna3.i\101511b3.b\dftppbn3ex.m
Meth Date : 13-Oct-2011 13:00 gquick Quant Type: ESTD
Cal Date : Cal File:
Als bottle: 1 QC Sample: DFTPP
Dil Factor: 1.00000
Integrator: HP RTE Compound Sublist: all.sub
Target Version: 4.04
Processing Host: TARGET04_VM

Compounds	QUANT SIG MASS	RT	EXP RT	DLT RT	RESPONSE	CONCENTRATIONS ON-COLUMN (ng/ul)	FINAL (ng/ul)	
1 Pentachlorophenol	266	11.370	11.344	0.026	435573			
2 Benzidine	184	13.298	13.267	0.031	1985795			
4 4,4'-DDD	235	13.945	13.913	0.032	7434			(QM)
5 4,4'-DDT	235	14.319	14.282	0.037	1177491			

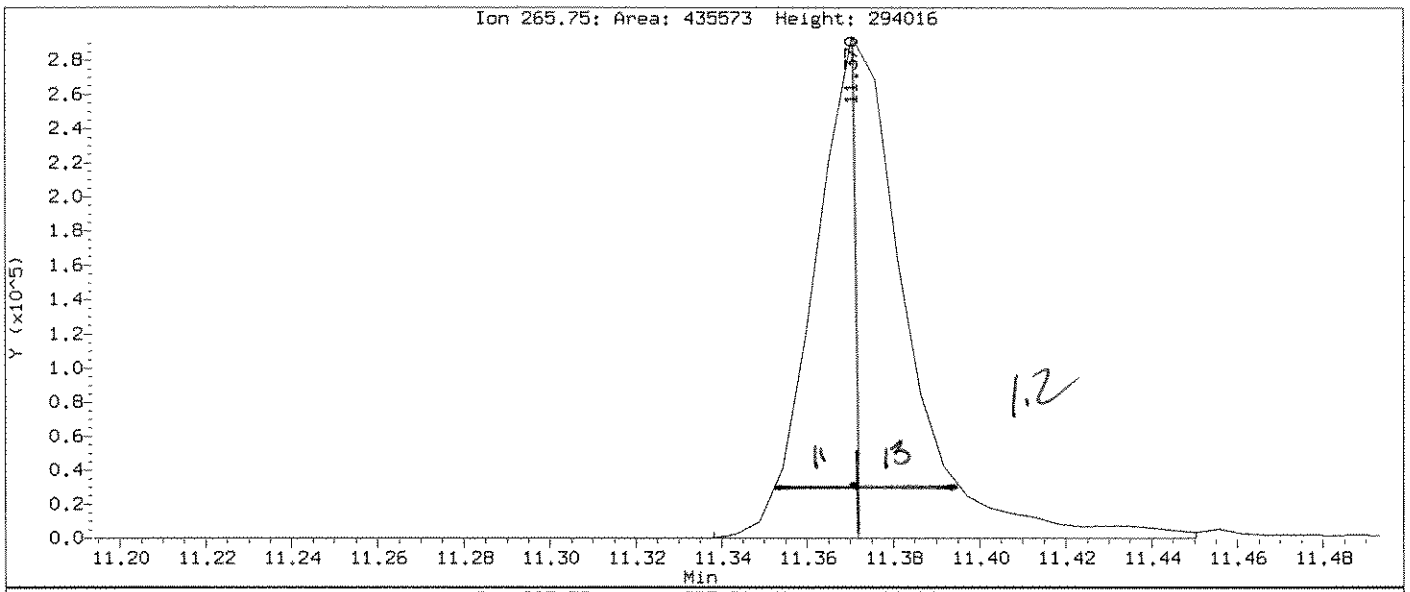
QC Flag Legend

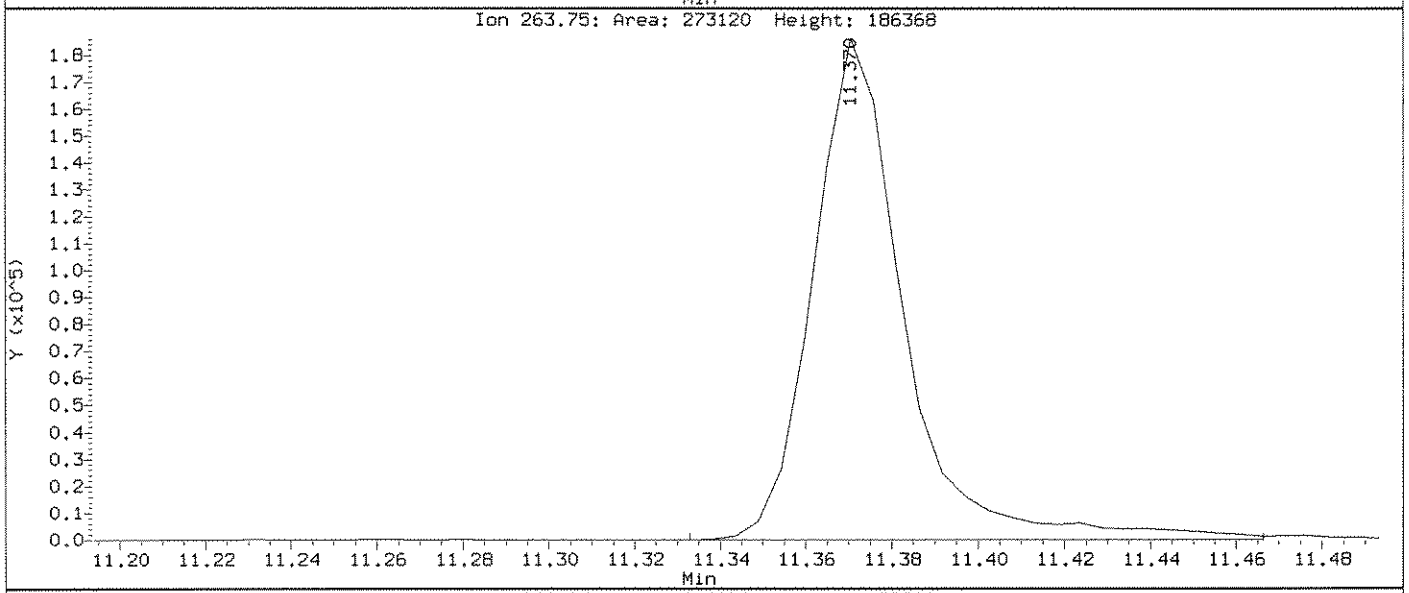
Q - Qualifier signal failed the ratio test.
M - Compound response manually integrated.

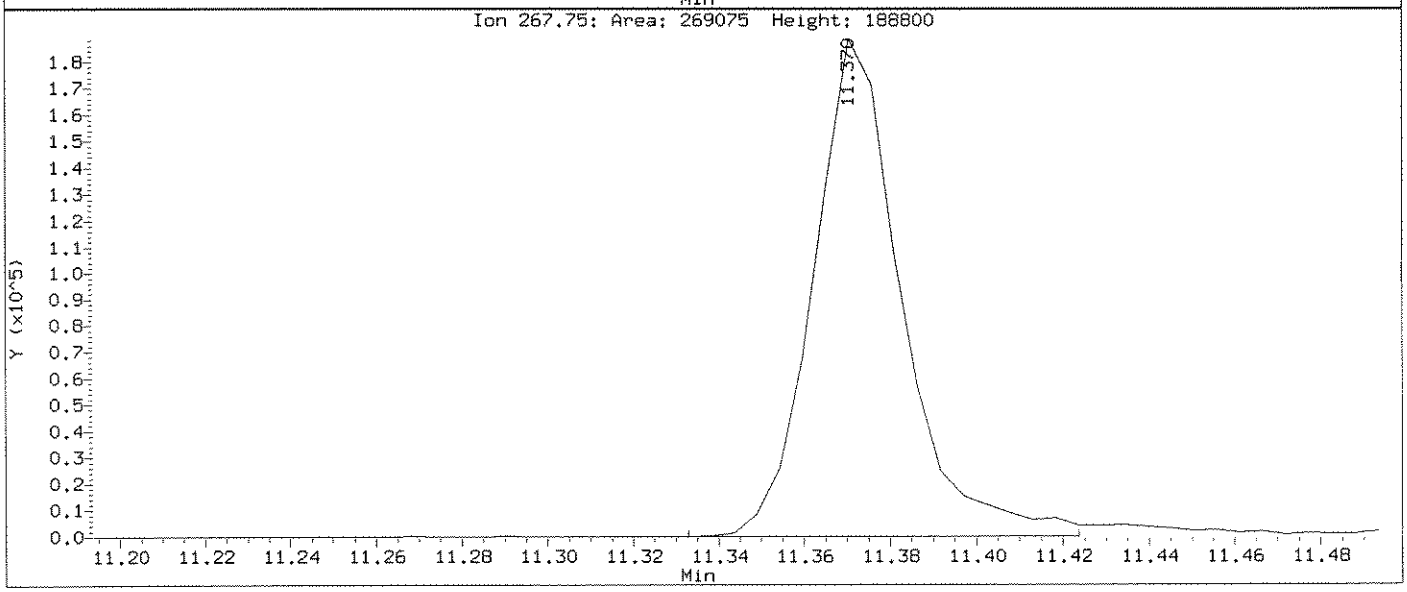
% Breakdown DDT 0.6%

Data File: \\ELABNSH04\DD\chem\bna3.i\101511b3.b\SEQ-TUN1ex.D
Injection Date: 15-OCT-2011 13:06
Instrument: bna3.i
Client Sample ID: SEQ-TUN1.D

Compound: Pentachlorophenol
CAS Number: 87-86-5







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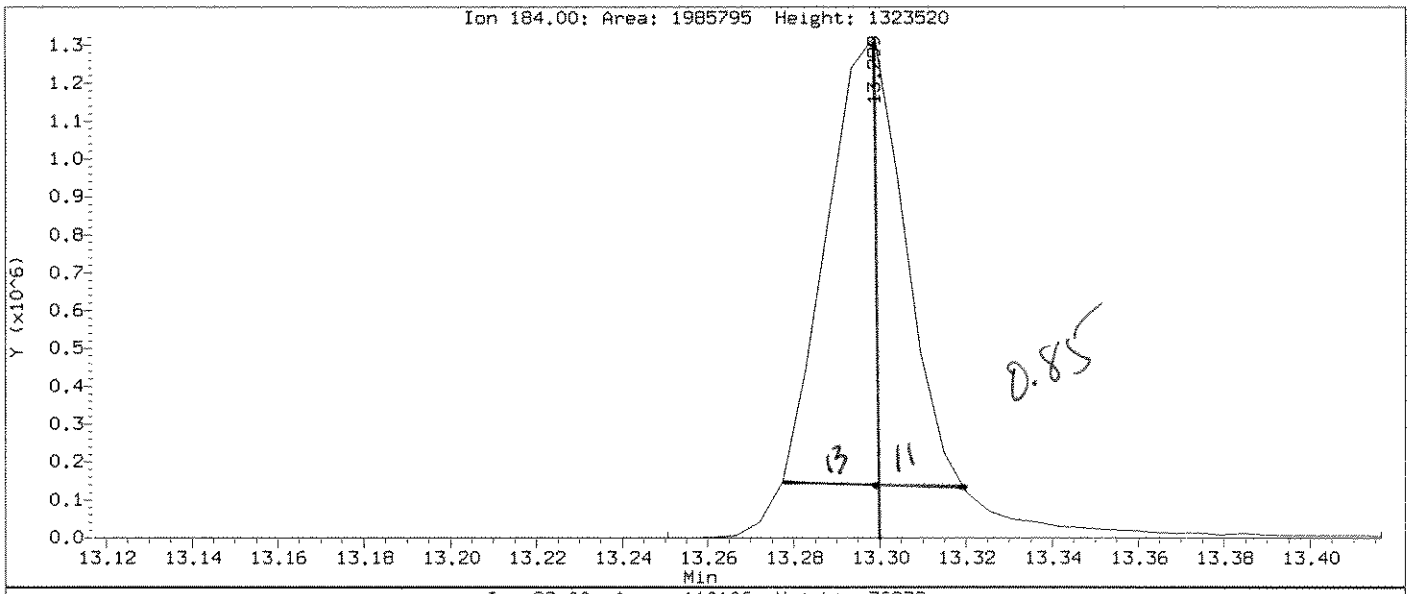
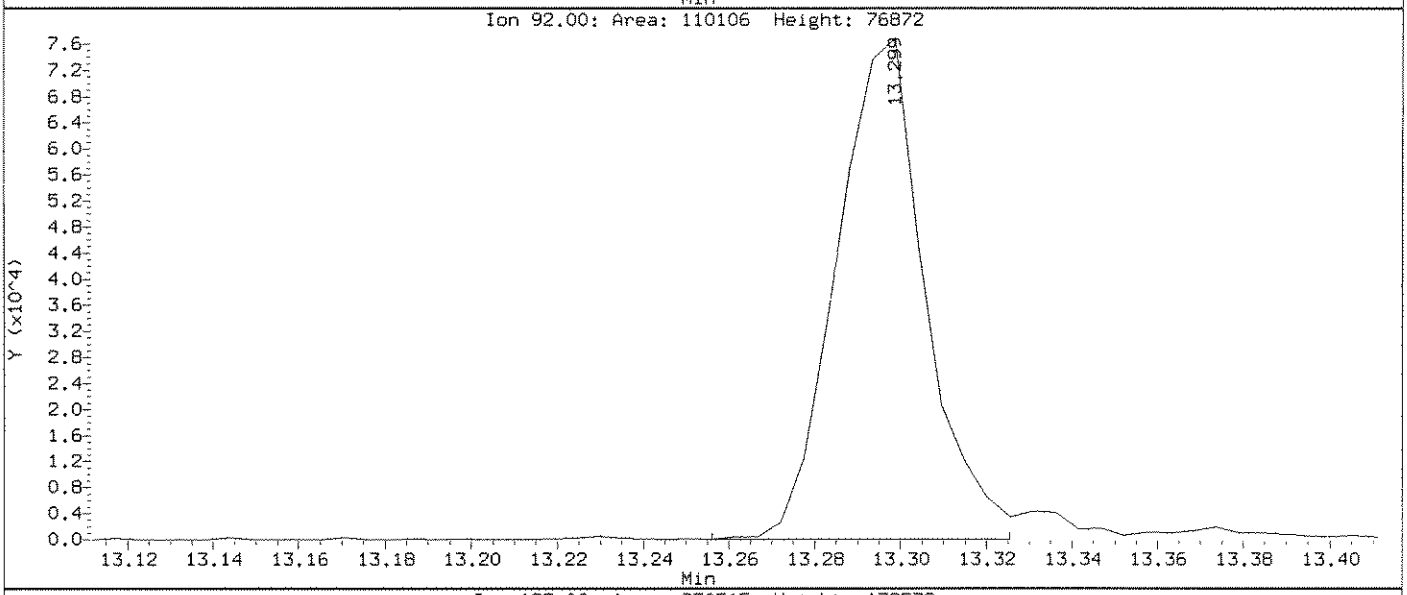
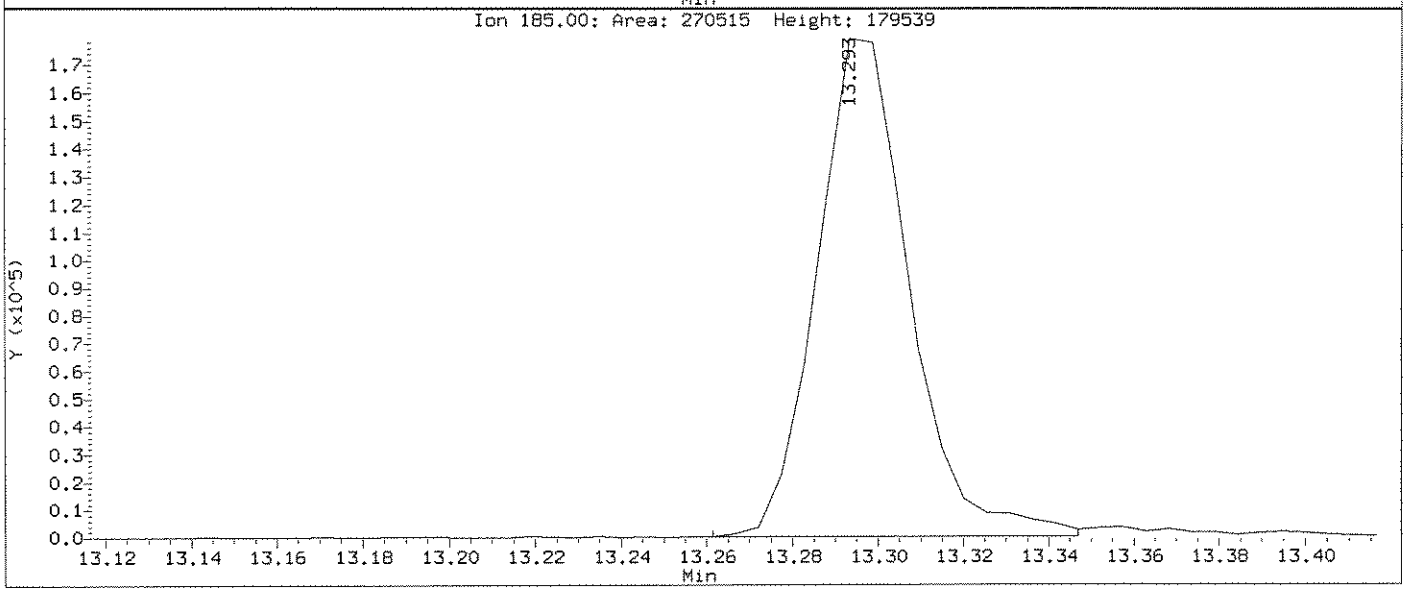
Injection Date: 15-OCT-2011 13:06
Instrument: bna3.i
Client Sample ID: SEQ-TUN1.D

Compound: Benzidine
CAS Number: 92-87-5







Data File: \\ELABNSH04\DD\chem\bna3.i\101511b3.b\SEQ-CCV1.D
Report Date: 15-Oct-2011 14:06

Laboratory Name

Data file : \\ELABNSH04\DD\chem\bna3.i\101511b3.b\SEQ-CCV1.D
Lab Smp Id: CCV50PPM Client Smp ID: CCV50PPM
Inj Date : 15-OCT-2011 13:33 MS Autotune Date: 28-JUL-1998 06:19
Operator : GLQ Inst ID: bna3.i
Smp Info : CCV50PPM;;;;;;11J0398
Misc Info : ;2;CCV;;;;ppbnax.sub;
Comment :
Method : \\ELABNSH04\DD\chem\bna3.i\101511b3.b\IXBN3.m
Meth Date : 15-Oct-2011 14:04 rward Quant Type: ISTD
Cal Date : 30-APR-2011 01:58 Cal File: SEQ-CALG.D
Als bottle: 2 Continuing Calibration Sample
Dil Factor: 1.00000
Integrator: HP RTE Compound Sublist: ppbnax.sub
Target Version: 4.04
Processing Host: TARGET04_VM

10-17-11

Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	AMOUNTS CAL-AMT (ng/ul)	AMOUNTS ON-COL (ng/ul)
* 1 1,4-Dichlorobenzene-d4	152	6.888	6.888	(1.000)	468040	40.0000	
$ 2 2-Fluorophenol	112	5.328	5.328	(0.774)	1352428	100.000	101.2(A)
$ 3 Phenol-d6	99	6.423	6.423	(0.933)	1786766	100.000	97.08
4 Pyridine	79	4.052	4.052	(0.588)	743333	50.0000	42.84
5 1,4-Dioxane	88	3.726	3.726	(0.541)	270688	50.0000	42.79
6 N-Nitroso-di-methylamine	42	3.987	3.987	(0.579)	426599	50.0000	53.25
7 Aniline	93	6.482	6.482	(0.941)	1139182	50.0000	46.37
10 Phenol	94	6.439	6.439	(0.935)	946852	50.0000	47.95
11 bis(2-Chloroethyl)ether	93	6.546	6.546	(0.950)	726130	50.0000	47.82
12 2-Chlorophenol	128	6.632	6.632	(0.963)	734127	50.0000	47.71
13 1,3-Dichlorobenzene	146	6.819	6.819	(0.990)	870847	50.0000	52.13
14 1,4-Dichlorobenzene	146	6.910	6.910	(1.003)	873876	50.0000	51.68
15 Benzyl alcohol	108	7.059	7.059	(1.025)	488687	50.0000	48.18
16 1,2-Dichlorobenzene	146	7.097	7.097	(1.030)	816315	50.0000	51.53
17 2-Methylphenol	108	7.193	7.193	(1.044)	680319	50.0000	48.10
18 2,2'-Oxybis-1-chloropropane	45	7.214	7.214	(1.047)	904304	50.0000	39.69(Q)
19 3-Methylphenol	108	7.390	7.390	(1.073)	729387	50.0000	49.14
20 4-Methylphenol	108	7.390	7.390	(1.073)	729387	50.0000	49.14
196 3-Methylphenol/4-Methylphenol	108	7.390	7.390	(1.073)	732030	50.0000	49.32
21 N-Nitroso-di-n-propylamine	70	7.390	7.390	(1.073)	623080	50.0000	51.50
22 Hexachloroethane	117	7.524	7.524	(1.092)	331163	50.0000	51.79
32 Benzaldehyde	106	6.354	6.354	(0.922)	298364	50.0000	25.24
* 33 Naphthalene-d8	136	8.502	8.502	(1.000)	1588463	40.0000	
$ 34 Nitrobenzene-d5	82	7.588	7.588	(0.893)	882455	50.0000	54.52
35 Nitrobenzene	77	7.609	7.609	(0.895)	897920	50.0000	55.04
39 Isophorone	82	7.925	7.925	(0.932)	1514865	50.0000	51.25

Data File: \\ELABNSH04\DD\chem\bna3.i\101511b3.b\SEQ-CCV1.D
Report Date: 15-Oct-2011 14:06

Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	AMOUNTS CAL-AMT (ng/ul)	AMOUNTS ON-COL (ng/ul)
40 2-Nitrophenol	139	8.010	8.010	(0.942)	403162	50.0000	52.29
42 2,4-Dimethylphenol	107	8.069	8.069	(0.949)	784579	50.0000	54.33
43 Benzoic acid	105	8.229	8.229	(0.968)	562761	50.0000	52.89
44 bis(2-Chloroethoxy)methane	93	8.181	8.181	(0.962)	826165	50.0000	48.72
47 2,4-Dichlorophenol	162	8.325	8.325	(0.979)	652536	50.0000	53.93
62 2,6-Dichlorophenol	162	8.608	8.608	(1.013)	628952	50.0000	53.06
50 1,2,4-Trichlorobenzene	180	8.421	8.421	(0.991)	771151	50.0000	56.75
51 Naphthalene	128	8.534	8.534	(1.004)	2035463	50.0000	51.47
52 4-Chloroaniline	127	8.603	8.603	(1.012)	847568	50.0000	50.51
53 Hexachlorobutadiene	225	8.672	8.672	(1.020)	455671	50.0000	61.41
54 4-Chloro-3-methylphenol	107	9.233	9.233	(1.086)	658879	50.0000	53.29
55 2-Methylnaphthalene	141	9.415	9.415	(1.107)	1184702	50.0000	49.94
56 1-Methylnaphthalene	141	9.538	9.538	(1.122)	1187128	50.0000	50.90
57 Acetophenone	105	7.390	7.390	(1.073)	1041115	50.0000	49.38
67 1,2,4,5-Tetrachlorobenzene	216	9.623	9.623	(1.132)	726446	50.0000	54.56
68 Caprolactam	113	9.111	9.111	(1.072)	203291	50.0000	45.36(M)
* 69 Acenaphthene-d10	164	10.735	10.735	(1.000)	994575	40.0000	
70 Hexachlorocyclopentadiene	237	9.602	9.602	(0.895)	533473	50.0000	57.22
71 2,4,6-Trichlorophenol	196	9.773	9.773	(0.910)	499578	50.0000	52.60
72 2,4,5-Trichlorophenol	196	9.832	9.832	(0.916)	527482	50.0000	51.21
73 2-Chloronaphthalene	162	10.035	10.035	(0.935)	1476555	50.0000	54.59
$ 74 2-Fluorobiphenyl	172	9.874	9.874	(0.920)	1664192	50.0000	52.89
75 2-Nitroaniline	65	10.168	10.168	(0.947)	457278	50.0000	49.70
76 Dimethylphthalate	163	10.393	10.393	(0.968)	1620784	50.0000	52.38
77 Acenaphthylene	152	10.564	10.564	(0.984)	2198962	50.0000	51.26
78 2,6-Dinitrotoluene	165	10.473	10.473	(0.976)	379194	50.0000	50.97
79 3-Nitroaniline	138	10.697	10.697	(0.997)	364630	50.0000	45.39
80 Acenaphthene	153	10.777	10.777	(1.004)	1382270	50.0000	50.07
81 2,4-Dinitrophenol	184	10.825	10.825	(1.008)	261760	50.0000	56.77
83 4-Nitrophenol	65	10.922	10.922	(1.017)	349227	50.0000	51.60
84 Dibenzofuran	168	10.996	10.996	(1.024)	1986648	50.0000	52.05
85 2,4-Dinitrotoluene	165	10.986	10.986	(1.023)	518284	50.0000	53.04
86 Diethylphthalate	149	11.274	11.274	(1.050)	1638521	50.0000	55.16
87 4-Chlorophenyl-phenylether	204	11.418	11.418	(1.064)	828149	50.0000	53.43
88 Fluorene	166	11.429	11.429	(1.065)	1724647	50.0000	51.86
89 4-Nitroaniline	138	11.472	11.472	(1.069)	349353	50.0000	42.93
96 2,3,4,6-Tetrachlorophenol	232	11.151	11.151	(1.039)	452423	50.0000	54.47
100 1,1'-Biphenyl	154	10.003	10.003	(0.932)	1695155	50.0000	47.20
* 102 Phenanthrene-d10	188	12.631	12.631	(1.000)	1899529	40.0000	
103 1,2-Diphenylhydrazine	77	11.621	11.621	(0.920)	1765233	50.0000	43.70
104 Carbazole	167	12.952	12.952	(1.025)	2169914	50.0000	43.75
105 4,6-Dinitro-2-methylphenol	198	11.498	11.498	(0.910)	353095	50.0000	51.13
106 N-Nitrosodiphenylamine	169	11.573	11.573	(0.916)	1422990	50.0000	44.53
$ 107 2,4,6-Tribromophenol	330	11.734	11.734	(0.929)	493268	100.000	94.54
108 4-Bromophenyl-phenylether	248	12.033	12.033	(0.953)	506273	50.0000	46.66
109 Hexachlorobenzene	284	12.113	12.113	(0.959)	526862	50.0000	45.40
110 Pentachlorophenol	266	12.380	12.380	(0.980)	353370	50.0000	45.84

Data File: \\ELABNSH04\DD\chem\bna3.i\101511b3.b\SEQ-CCV1.D
Report Date: 15-Oct-2011 14:06

Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	AMOUNTS CAL-AMT (ng/ul)	AMOUNTS ON-COL (ng/ul)
111 Phenanthrene	178	12.663	12.663	(1.003)	2382700	50.0000	46.64
112 Anthracene	178	12.733	12.733	(1.008)	2418022	50.0000	46.60
115 Di-n-butylphthalate	149	13.416	13.416	(1.062)	2666366	50.0000	47.50
116 Fluoranthene	202	14.415	14.415	(1.141)	2690632	50.0000	45.92
129 Atrazine	200	12.246	12.246	(0.970)	480489	50.0000	43.15
* 132 Chrysene-d12	240	17.038	17.038	(1.000)	2054877	40.0000	
133 Benzidine	184	14.640	14.640	(0.859)	1463712	50.0000	44.43
134 Pyrene	202	14.795	14.795	(0.868)	2671253	50.0000	44.68
$ 135 Terphenyl-d14	244	15.046	15.046	(0.883)	1833181	50.0000	47.82
136 Butylbenzylphthalate	149	15.943	15.943	(0.936)	1211193	50.0000	45.96
137 3,3'-Dichlorobenzidine	252	16.980	16.980	(0.997)	892997	50.0000	42.74
138 Benzo(a)anthracene	228	17.017	17.017	(0.999)	2587327	50.0000	45.00
139 Chrysene	228	17.092	17.092	(1.003)	2394330	50.0000	44.48
140 Bis(2-ethylhexyl)phthalate	149	17.097	17.097	(1.003)	1664543	50.0000	47.70
* 154 Perylene-d12	264	19.955	19.955	(1.000)	1769477	40.0000	
155 Di-n-octylphthalate	149	18.433	18.433	(0.924)	2800143	50.0000	52.56
156 Benzo(b)fluoranthene	252	19.170	19.170	(0.961)	2415558	50.0000	49.93
157 Benzo(k)fluoranthene	252	19.218	19.218	(0.963)	2262690	50.0000	46.17(H)
158 Benzo(a)pyrene	252	19.832	19.832	(0.994)	2055339	50.0000	44.42
159 Indeno(1,2,3-cd)pyrene	276	22.631	22.631	(1.134)	1713017	50.0000	37.30
160 Dibenz(a,h)anthracene	278	22.701	22.701	(1.138)	1637922	50.0000	36.86
161 Benzo(g,h,i)perylene	276	23.427	23.427	(1.174)	1641813	50.0000	35.92

QC Flag Legend

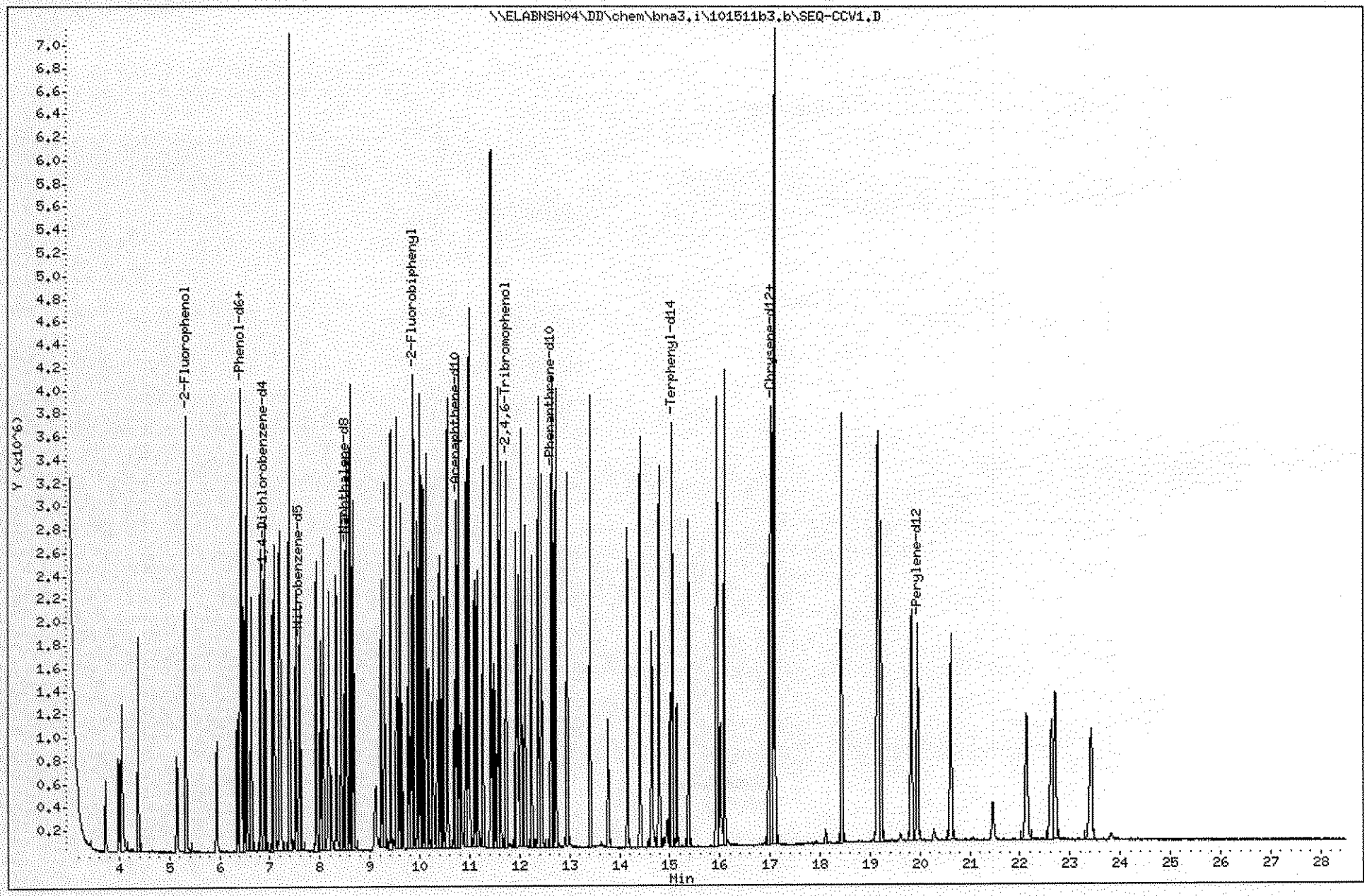
A - Target compound detected but, quantitated amount exceeded maximum amount.
Q - Qualifier signal failed the ratio test.
M - Compound response manually integrated.
H - Operator selected an alternate compound hit.

Data File: \\ELABNSH04\DD\chem\bna3.i\101511b3.b\SEQ-CCV1.D
Date : 15-OCT-2011 13:33
Client ID: CCV50PPM
Sample Info: CCV50PPM;;;;;;11J0398

Instrument: bna3.i

Operator: GLQ
Column diameter: 0.25

Column phase: fused silica

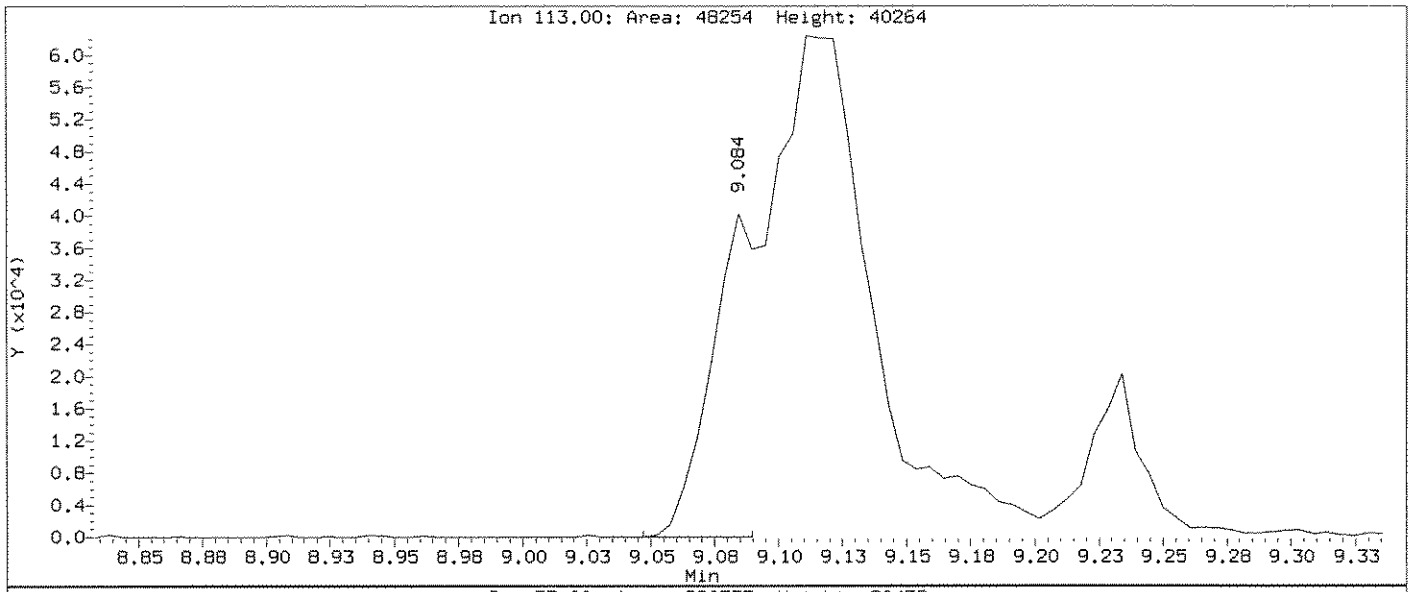


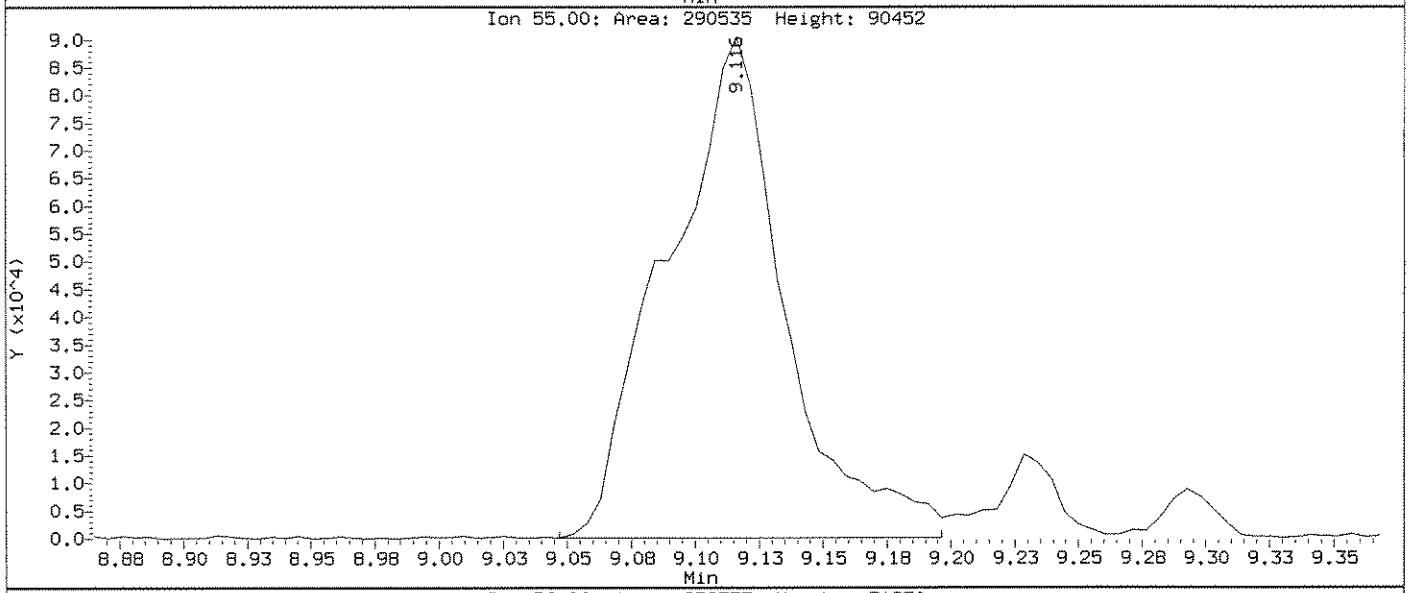
772

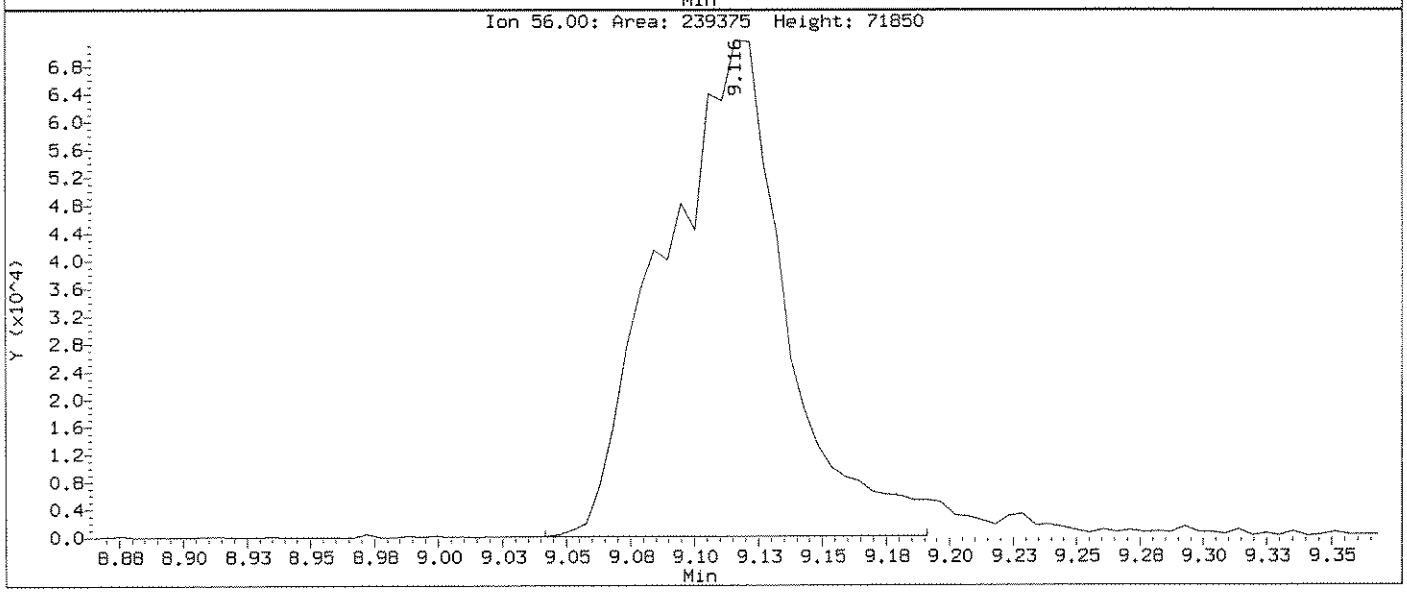
1109191

Data File: \\ELABNSHO4\DD\chem\bna3.i\101511b3.b\SEQ-CCV1.D
Injection Date: 15-OCT-2011 13:33
Instrument: bna3.i
Client Sample ID: CCV50PPM

Compound: Caprolactam
CAS Number: 105-60-2

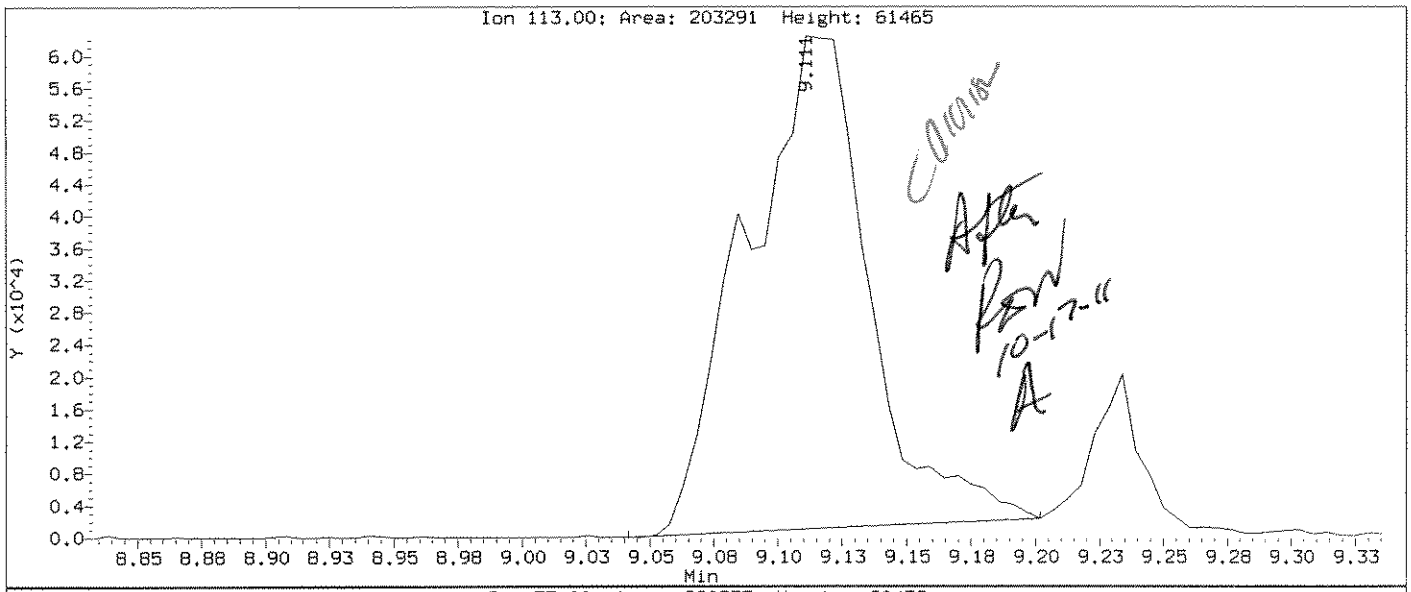


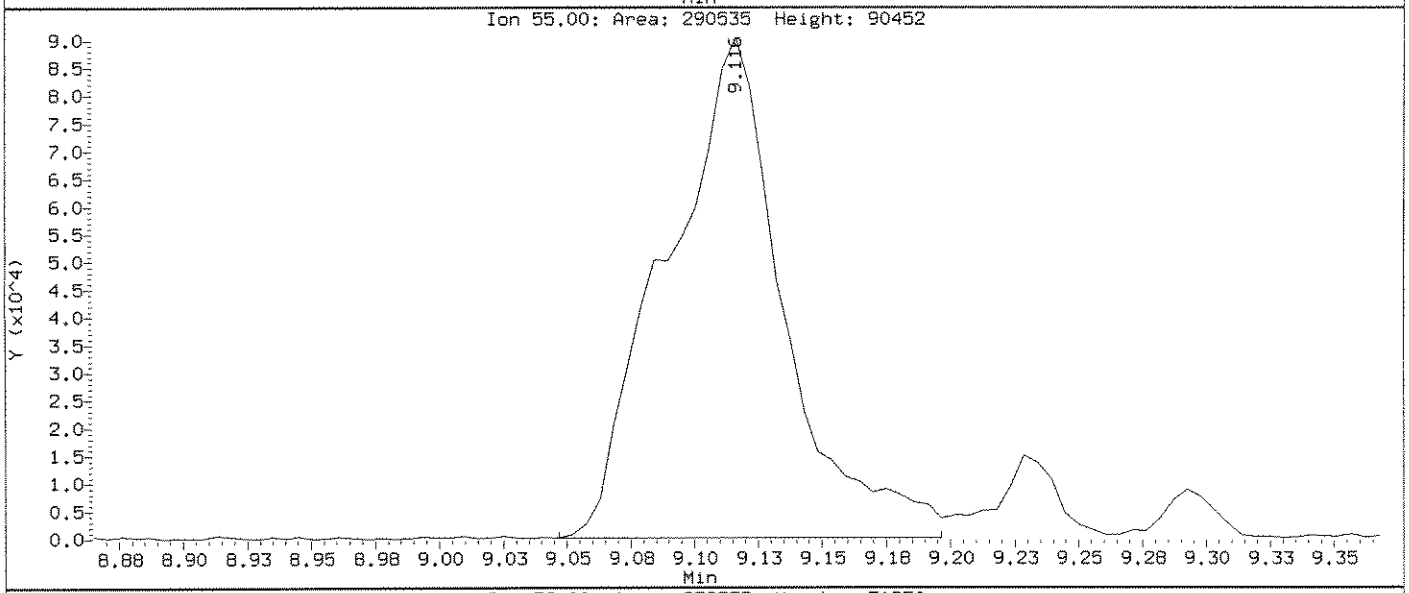


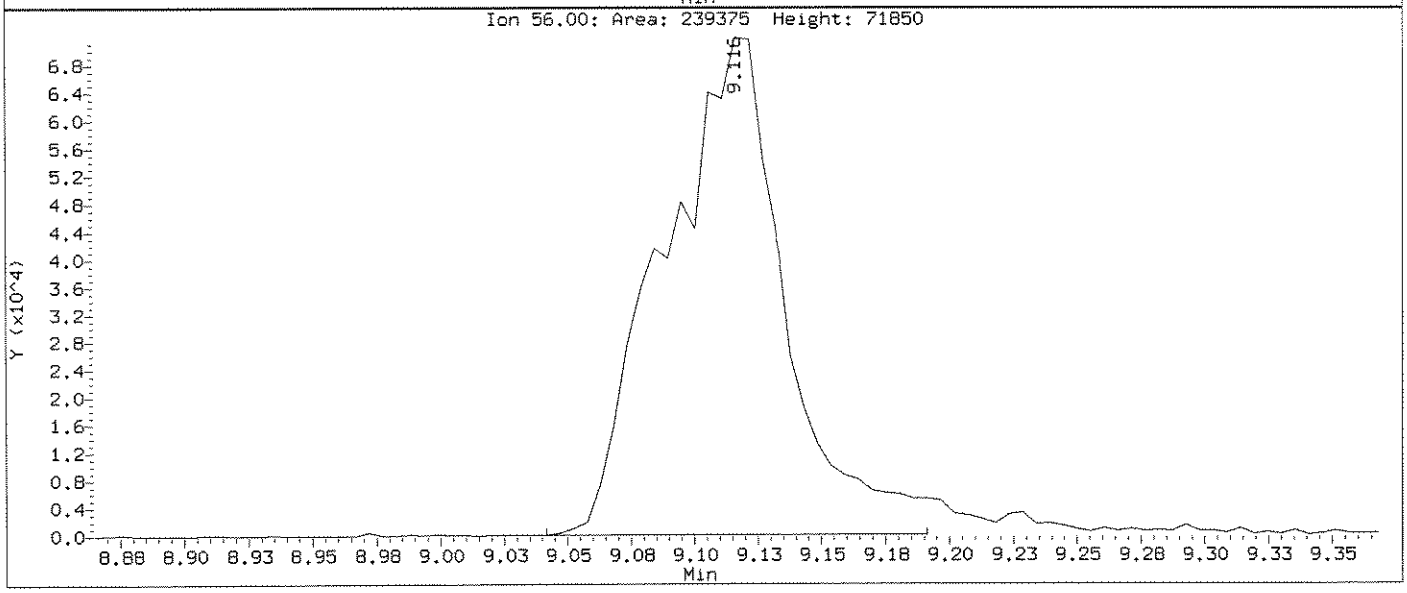


Data File: \\ELABNSH04\DD\chem\bna3.i\101511b3.b\SEQ-CCV1.D
Injection Date: 15-OCT-2011 13:33
Instrument: bna3.i
Client Sample ID: CCV50PPM

Compound: Caprolactam
CAS Number: 105-60-2







Data File: \\ELABNSH04\DD\chem\bna3.i\101511b3.b\SEQ-CCV2.D
Report Date: 17-Oct-2011 15:36

Laboratory Name

Data file : \\ELABNSH04\DD\chem\bna3.i\101511b3.b\SEQ-CCV2.D
Lab Smp Id: SEQ-CCV2
Inj Date : 15-OCT-2011 14:13 MS Autotune Date: 28-JUL-1998 06:19
Operator : GLQ Inst ID: bna3.i
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Misc Info : ;0;CCV;;;;ppbnax.sub;
Comment :
Method : \\ELABNSH04\DD\chem\bna3.i\101511b3.b\IXBN3.m
Meth Date : 17-Oct-2011 15:35 rward Quant Type: ISTD
Cal Date : 30-APR-2011 01:58 Cal File: SEQ-CALG.D
Als bottle: 3 Continuing Calibration Sample
Dil Factor: 1.00000
Integrator: HP RTE Compound Sublist: ppbnax.sub
Target Version: 4.04
Processing Host: TARGET04_VM

RDW 10-18-11

Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	AMOUNTS CAL-AMT (ng/ul)	AMOUNTS ON-COL (ng/ul)
* 1 1,4-Dichlorobenzene-d4	152	6.888	6.888	(1.000)	676438	40.0000	
5 1,4-Dioxane	88	3.736	3.736	(0.542)	373585	50.0000	40.86
32 Benzaldehyde	106	6.359	6.359	(0.923)	820170	50.0000	48.01
* 33 Naphthalene-d8	136	8.506	8.506	(1.000)	2355191	40.0000	
62 2,6-Dichlorophenol	162	8.608	8.608	(1.012)	948821	50.0000	53.99
51 Naphthalene	128	8.608	8.608	(1.012)	57287	50.0000	0.9770
57 Acetophenone	105	7.390	7.390	(1.073)	1529981	50.0000	50.21
67 1,2,4,5-Tetrachlorobenzene	216	9.623	9.623	(1.131)	1108680	50.0000	56.16
68 Caprolactam	113	9.057	9.057	(1.065)	323988	50.0000	48.76
* 69 Acenaphthene-d10	164	10.739	10.739	(1.000)	1415554	40.0000	
73 2-Chloronaphthalene	162	10.066	10.066	(0.937)	1958702	50.0000	50.88
100 1,1'-Biphenyl	154	10.008	10.008	(0.932)	2567769	50.0000	50.23
* 102 Phenanthrene-d10	188	12.631	12.631	(1.000)	2307258	40.0000	
129 Atrazine	200	12.251	12.251	(0.970)	681129	50.0000	50.36
* 132 Chrysene-d12	240	17.033	17.033	(1.000)	2134169	40.0000	
133 Benzidine	184	14.639	14.639	(0.859)	2112892	50.0000	61.75
137 3,3'-Dichlorobenzidine	252	16.979	16.979	(0.997)	1148476	50.0000	52.92
* 154 Perylene-d12	264	19.955	19.955	(1.000)	1574352	40.0000	

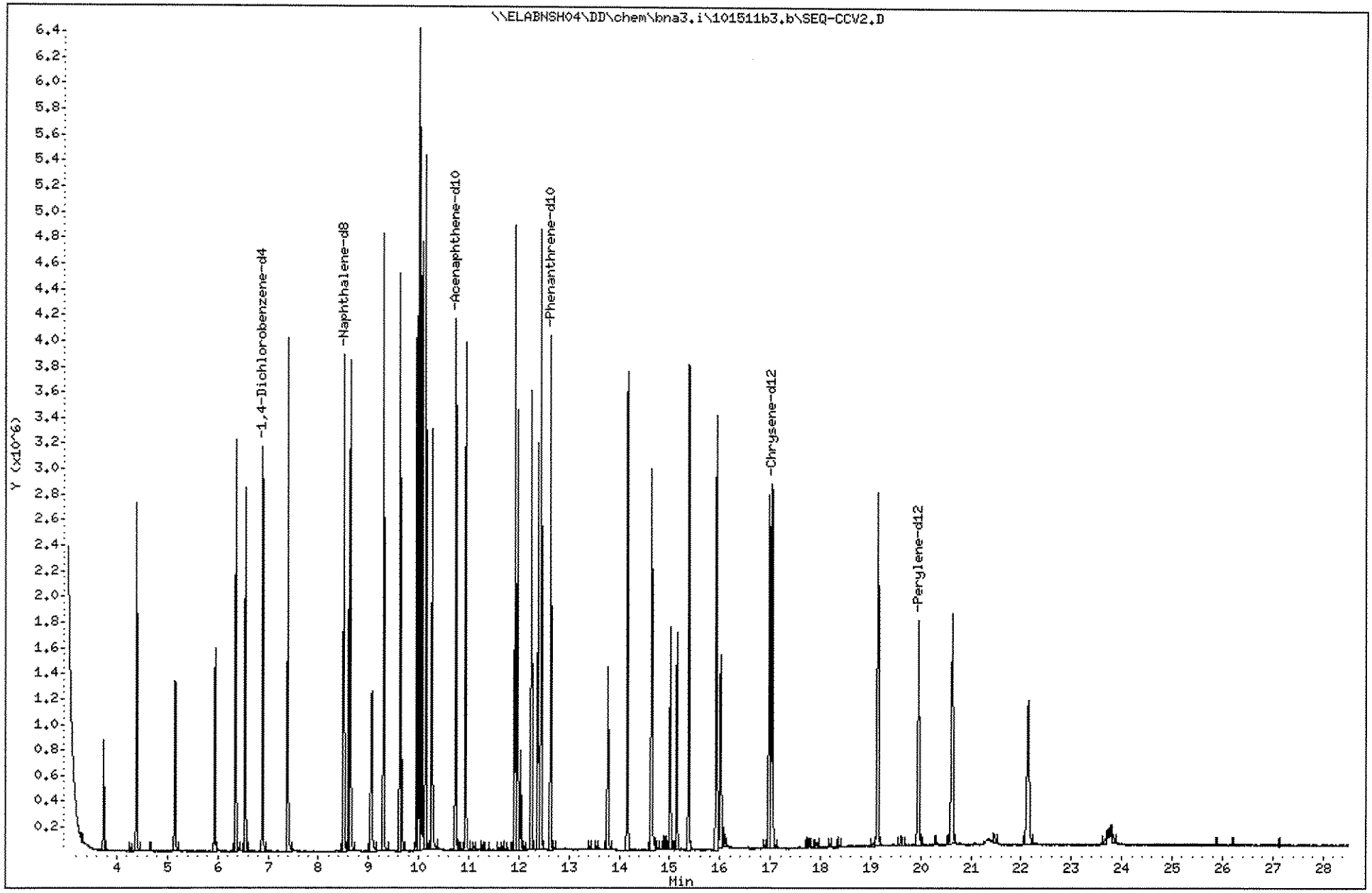
10/18

Data File: \\ELABNSH04\DD\chem\bna3.i\101511b3.b\SEQ-CCV2.D
Date : 15-OCT-2011 14:13
Client ID:
Sample Info: CCV_INT2_50PPM;;;;;;11J0248

Instrument: bna3.i

Operator: CLQ
Column diameter: 0.25

Column phase: fused silica



776

1109191

Data File: \\ELABNSH04\DD\chem\bna3.i\101511b3.b\0919103.D
Report Date: 17-Oct-2011 14:51

Laboratory Name

Data file : \\ELABNSH04\DD\chem\bna3.i\101511b3.b\0919103.D
Lab Smp Id: 1109191-03 Client Smp ID: FLC-4-SB01-0204-092
Inj Date : 15-OCT-2011 14:52 MS Autotune Date: 28-JUL-1998 06:19
Operator : GLQ Inst ID: bna3.i
Smp Info : 1109191-03;;15;1000;UG/KG;;04-OCT-2011
Misc Info : ;0;;;;1J03009;ppbnax.sub;
Comment :
Method : \\ELABNSH04\DD\chem\bna3.i\101511b3.b\IXBN3.m
Meth Date : 15-Oct-2011 14:04 rward Quant Type: ISTD
Cal Date : 30-APR-2011 01:58 Cal File: SEQ-CALG.D
Als bottle: 4
Dil Factor: 1.00000
Integrator: HP RTE Compound Sublist: ppbnax.sub
Target Version: 4.04
Processing Host: TARGET04_VM

Concentration Formula: Amt * DF * Uf * Vt*Vi/(Amt * Vi * (Solids/100))

Name	Value	Description
DF	1.000	Dilution Factor
Uf	0.000	ng unit correction factor
Vt	1000.000	Volume of final extract (uL)(1000 low, 2
Amt	15.000	Mass of initial extraction
Vi	0.500	Volume injected (uL)
Solids	100.000	Percent Solids

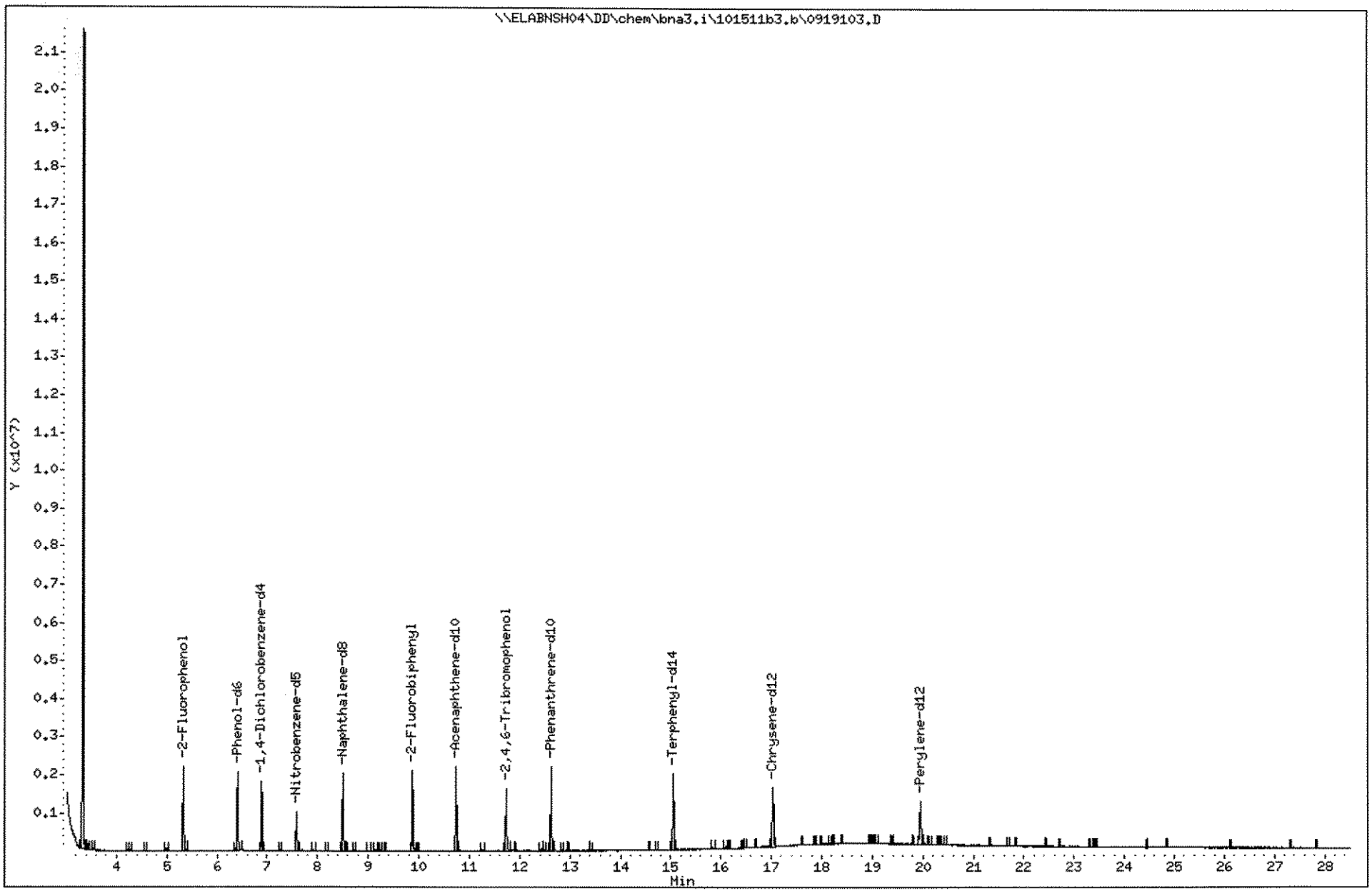
10-18-11

Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS ON-COLUMN (ng/ul)	FINAL (ug/Kg)
* 1 1,4-Dichlorobenzene-d4	152	6.889	6.888	(1.000)	378895	40.0000	
$ 2 2-Fluorophenol	112	5.330	5.328	(0.774)	802199	74.1467	74.15
$ 3 Phenol-d6	99	6.414	6.423	(0.931)	994342	66.7348	66.73
* 33 Naphthalene-d8	136	8.503	8.502	(1.000)	1242665	40.0000	
$ 34 Nitrobenzene-d5	82	7.584	7.588	(0.892)	509487	40.2401	40.24
* 69 Acenaphthene-d10	164	10.736	10.735	(1.000)	756863	40.0000	
$ 74 2-Fluorobiphenyl	172	9.870	9.874	(0.919)	957927	40.0075	40.01
* 102 Phenanthrene-d10	188	12.627	12.631	(1.000)	1264115	40.0000	
$ 107 2,4,6-Tribromophenol	330	11.735	11.734	(0.929)	262311	75.5466	75.55
* 132 Chrysene-d12	240	17.029	17.038	(1.000)	1157404	40.0000	
$ 135 Terphenyl-d14	244	15.047	15.046	(0.884)	994942	46.0793	46.08
* 154 Perylene-d12	264	19.951	19.955	(1.000)	1019815	40.0000	

Data File: \\ELABNSH04\DD\chem\bna3.i\101511b3.b\0919103.D
Date : 15-OCT-2011 14:52
Client ID: FLC-4-SB01-0204-092
Sample Info: 1109191-03;;15;1000;UG/KG;;04-OCT-2011
Volume Injected (uL): 0.5
Column phase: fused silica

Instrument: bna3.i

Operator: GLQ
Column diameter: 0.25



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1109191

Data File: \\ELABNSH04\DD\chem\bna3.i\101511b3.b\919102MS.D
Report Date: 17-Oct-2011 15:03

Laboratory Name

Data file : \\ELABNSH04\DD\chem\bna3.i\101511b3.b\919102MS.D
Lab Smp Id: 1J03009-MS1
Inj Date : 15-OCT-2011 18:11 MS Autotune Date: 28-JUL-1998 06:19
Operator : GLQ Inst ID: bna3.i
Smp Info : 1J03009-MS1;;15;1000;UG/KG;;04-OCT-2011
Misc Info : ;0;;;;1J03009;ppbnax.sub;
Comment :
Method : \\ELABNSH04\DD\chem\bna3.i\101511b3.b\IXBN3.m
Meth Date : 15-Oct-2011 14:04 rward Quant Type: ISTD
Cal Date : 30-APR-2011 01:58 Cal File: SEQ-CALG.D
Als bottle: 9 QC Sample: MS
Dil Factor: 1.00000
Integrator: HP RTE Compound Sublist: ppbnax.sub
Target Version: 4.04
Processing Host: TARGET04_VM

Concentration Formula: Amt * DF * Uf * Vt* Vi/(Amt * Vi)

Name	Value	Description
DF	1.000	Dilution Factor
Uf	0.000	ng unit correction factor
Vt	1000.000	Volume of final extract (uL)
Vi	0.500	Volume injected (uL)
Amt	15.000	Volume of initial extraction

RDN 10-18-11

Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS ON-COLUMN (ng/ul)	FINAL (ug/L)
* 1 1,4-Dichlorobenzene-d4	152	6.888	6.888	(1.000)	531907	40.0000	
$ 2 2-Fluorophenol	112	5.334	5.328	(0.774)	1015175	66.8396	66.84
$ 3 Phenol-d6	99	6.423	6.423	(0.933)	1380265	65.9875	65.99
4 Pyridine	79	4.057	4.052	(0.589)	398884	20.2295	20.23
5 1,4-Dioxane	88	3.736	3.726	(0.542)	142974	19.8893	19.89
6 N-Nitroso-di-methylamine	42	3.998	3.987	(0.580)	323082	35.4884	35.49
7 Aniline	93	6.482	6.482	(0.941)	722077	25.8650	25.86
10 Phenol	94	6.440	6.439	(0.935)	664561	29.6118	29.61
11 bis(2-Chloroethyl)ether	93	6.546	6.546	(0.950)	560604	32.4832	32.48
12 2-Chlorophenol	128	6.632	6.632	(0.963)	486031	27.7946	27.79
13 1,3-Dichlorobenzene	146	6.819	6.819	(0.990)	624661	32.9015	32.90
14 1,4-Dichlorobenzene	146	6.910	6.910	(1.003)	643990	33.5157	33.52
15 Benzyl alcohol	108	7.059	7.059	(1.025)	374833	32.5207	32.52
16 1,2-Dichlorobenzene	146	7.102	7.097	(1.031)	594003	32.9966	33.00

Data File: \\ELABNSH04\DD\chem\bna3.i\101511b3.b\919102MS.D
Report Date: 17-Oct-2011 15:03

	Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS ON-COLUMN (ng/ul)	FINAL (ug/L)
	17 2-Methylphenol	108	7.193	7.193	(1.044)	446980	27.8110	27.81(Q)
	18 2,2'-Oxybis-1-chloropropane	45	7.214	7.214	(1.047)	745338	28.7863	28.79(Q)
	19 3-Methylphenol	108	7.385	7.390	(1.072)	496291	29.4240	29.42
	20 4-Methylphenol	108	7.385	7.390	(1.072)	496291	29.4240	29.42
	196 3-Methylphenol/4-Methylphenol	108	7.385	7.390	(1.072)	495721	29.3902	29.39
	21 N-Nitroso-di-n-propylamine	70	7.390	7.390	(1.073)	504281	36.6767	36.68
	22 Hexachloroethane	117	7.524	7.524	(1.092)	234757	32.3059	32.30
	32 Benzaldehyde	106	6.359	6.354	(0.923)	346624	25.8057	25.80
*	33 Naphthalene-d8	136	8.507	8.502	(1.000)	1867513	40.0000	
$	34 Nitrobenzene-d5	82	7.588	7.588	(0.892)	671148	35.2724	35.27
	35 Nitrobenzene	77	7.615	7.609	(0.895)	701457	36.5742	36.57
	39 Isophorone	82	7.919	7.925	(0.931)	1108131	31.8899	31.89
	40 2-Nitrophenol	139	8.015	8.010	(0.942)	276401	30.4937	30.49
	42 2,4-Dimethylphenol	107	8.069	8.069	(0.949)	506497	29.8316	29.83
	43 Benzoic acid	105	8.165	8.229	(0.960)	45653	3.64946	3.649(a)
	44 bis(2-Chloroethoxy)methane	93	8.181	8.181	(0.962)	695265	34.8764	34.88
	47 2,4-Dichlorophenol	162	8.331	8.325	(0.979)	453656	31.8926	31.89
	62 2,6-Dichlorophenol	162	8.608	8.608	(1.012)	508871	36.5167	36.52
	50 1,2,4-Trichlorobenzene	180	8.427	8.421	(0.991)	562141	35.1882	35.19
	51 Naphthalene	128	8.534	8.534	(1.003)	1575716	33.8890	33.89
	52 4-Chloroaniline	127	8.603	8.603	(1.011)	418745	21.2269	21.23
	53 Hexachlorobutadiene	225	8.673	8.672	(1.019)	392531	44.9947	44.99
	54 4-Chloro-3-methylphenol	107	9.233	9.233	(1.085)	477637	32.8581	32.86
	55 2-Methylnaphthalene	141	9.415	9.415	(1.107)	947548	33.9718	33.97
	56 1-Methylnaphthalene	141	9.538	9.538	(1.121)	841475	30.6902	30.69
	57 Acetophenone	105	7.390	7.390	(1.073)	804684	33.5814	33.58
	67 1,2,4,5-Tetrachlorobenzene	216	9.623	9.623	(1.131)	599359	38.2888	38.29
	68 Caprolactam	113	9.089	9.111	(1.068)	178721	33.9235	33.92
*	69 Acenaphthene-d10	164	10.735	10.735	(1.000)	1144088	40.0000	
	70 Hexachlorocyclopentadiene	237	9.602	9.602	(0.895)	255879	23.8579	23.86
	71 2,4,6-Trichlorophenol	196	9.778	9.773	(0.911)	347368	31.7923	31.79
	72 2,4,5-Trichlorophenol	196	9.837	9.832	(0.916)	373336	31.5081	31.51
	73 2-Chloronaphthalene	162	10.035	10.035	(0.935)	1103623	35.4720	35.47
$	74 2-Fluorobiphenyl	172	9.875	9.874	(0.920)	1304423	36.0401	36.04
	75 2-Nitroaniline	65	10.168	10.168	(0.947)	371554	35.1069	35.11
	76 Dimethylphthalate	163	10.387	10.393	(0.968)	1349414	37.9116	37.91
	77 Acenaphthylene	152	10.558	10.564	(0.984)	1468861	29.7673	29.77
	78 2,6-Dinitrotoluene	165	10.473	10.473	(0.976)	298998	34.9404	34.94
	79 3-Nitroaniline	138	10.692	10.697	(0.996)	219247	23.7259	23.72
	80 Acenaphthene	153	10.777	10.777	(1.004)	1052266	33.1332	33.13
	81 2,4-Dinitrophenol	184	10.825	10.825	(1.008)	67516	12.7293	12.73(a)
	83 4-Nitrophenol	65	10.922	10.922	(1.017)	217606	27.9534	27.95
	84 Dibenzofuran	168	10.996	10.996	(1.024)	1607288	36.6061	36.61
	85 2,4-Dinitrotoluene	165	10.980	10.986	(1.023)	398553	35.4578	35.46
	86 Diethylphthalate	149	11.269	11.274	(1.050)	1321117	38.6609	38.66
	87 4-Chlorophenyl-phenylether	204	11.418	11.418	(1.064)	687876	38.5815	38.58
	88 Fluorene	166	11.429	11.429	(1.065)	1323547	34.5971	34.60

Data File: \\ELABNSH04\DD\chem\bna3.i\101511b3.b\919102MS.D
Report Date: 17-Oct-2011 15:03

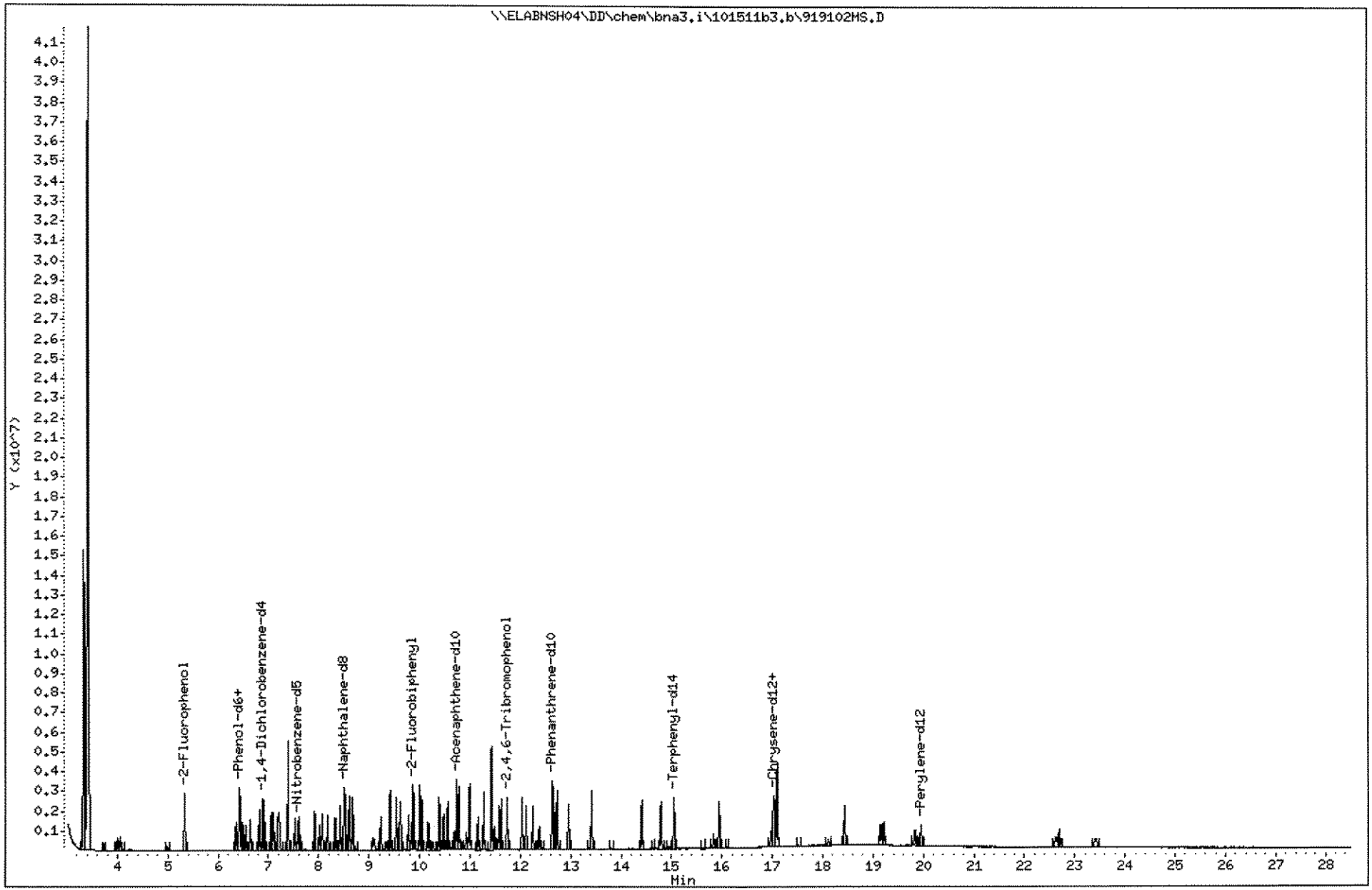
Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS ON-COLUMN (ng/ul)	FINAL (ug/L)
89 4-Nitroaniline	138	11.466	11.472	(1.068)	227007	24.2498	24.25
96 2,3,4,6-Tetrachlorophenol	232	11.157	11.151	(1.039)	296434	31.0234	31.02
100 1,1'-Biphenyl	154	10.003	10.003	(0.932)	1385265	33.5297	33.53
* 102 Phenanthrene-d10	188	12.631	12.631	(1.000)	1976430	40.0000	
103 1,2-Diphenylhydrazine	77	11.621	11.621	(0.920)	1307519	31.1061	31.11
104 Carbazole	167	12.952	12.952	(1.025)	1511289	29.2865	29.29
105 4,6-Dinitro-2-methylphenol	198	11.493	11.498	(0.910)	193779	26.9697	26.97
106 N-Nitrosodiphenylamine	169	11.573	11.573	(0.916)	794475	23.8955	23.90(R)
$ 107 2,4,6-Tribromophenol	330	11.739	11.734	(0.929)	373663	68.8309	68.83
108 4-Bromophenyl-phenylether	248	12.038	12.033	(0.953)	429240	38.0220	38.02
109 Hexachlorobenzene	284	12.113	12.113	(0.959)	414849	34.3586	34.36
110 Pentachlorophenol	266	12.375	12.380	(0.980)	195182	24.3374	24.34
111 Phenanthrene	178	12.663	12.663	(1.003)	1829882	34.4226	34.42
112 Anthracene	178	12.733	12.733	(1.008)	1780318	32.9751	32.98
115 Di-n-butylphthalate	149	13.416	13.416	(1.062)	2035491	34.8518	34.85
116 Fluoranthene	202	14.410	14.415	(1.141)	1827164	29.9708	29.97
129 Atrazine	200	12.246	12.246	(0.970)	376936	32.5359	32.54
* 132 Chrysene-d12	240	17.038	17.038	(1.000)	1463406	40.0000	
133 Benzidine	184	14.640	14.640	(0.859)	47361	2.01863	2.019(aM)
134 Pyrene	202	14.789	14.795	(0.868)	1825467	42.8750	42.87
$ 135 Terphenyl-d14	244	15.046	15.046	(0.883)	1301318	47.6664	47.67
136 Butylbenzylphthalate	149	15.943	15.943	(0.936)	835078	44.4959	44.50
137 3,3'-Dichlorobenzidine	252	16.974	16.980	(0.996)	318124	21.3793	21.38
138 Benzo(a)anthracene	228	17.012	17.017	(0.998)	1381334	33.7325	33.73
139 Chrysene	228	17.086	17.092	(1.003)	1358341	35.4323	35.43
140 Bis(2-ethylhexyl)phthalate	149	17.097	17.097	(1.003)	1069539	43.0354	43.04
* 154 Perylene-d12	264	19.950	19.955	(1.000)	900352	40.0000	
155 Di-n-octylphthalate	149	18.433	18.433	(0.924)	1548345	57.1169	57.12
156 Benzo(b)fluoranthene	252	19.154	19.170	(0.960)	927004	37.6558	37.66
157 Benzo(k)fluoranthene	252	19.207	19.218	(0.963)	942254	37.7904	37.79
158 Benzo(a)pyrene	252	19.827	19.832	(0.994)	761128	32.3319	32.33
159 Indeno(1,2,3-cd)pyrene	276	22.626	22.631	(1.134)	717470	30.7080	30.71
160 Dibenz(a,h)anthracene	278	22.701	22.701	(1.138)	698821	30.9082	30.91
161 Benzo(g,h,i)perylene	276	23.411	23.427	(1.174)	728962	31.3468	31.35

QC Flag Legend

a - Target compound detected but, quantitated amount Below Limit Of Quantitation(BLOQ).
Q - Qualifier signal failed the ratio test.
R - Spike/Surrogate failed recovery limits.
M - Compound response manually integrated.

Data File: \\ELABNSH04\DD\chem\bna3.i\101511b3.b\919102MS.D
Date : 15-OCT-2011 18:11
Client ID:
Sample Info: 1J03009-MS1;;15;1000;UG/KG;;04-OCT-2011
Volume Injected (uL): 0.5
Column phase: fused silica

Instrument: bna3.i
Operator: GLQ
Column diameter: 0.25



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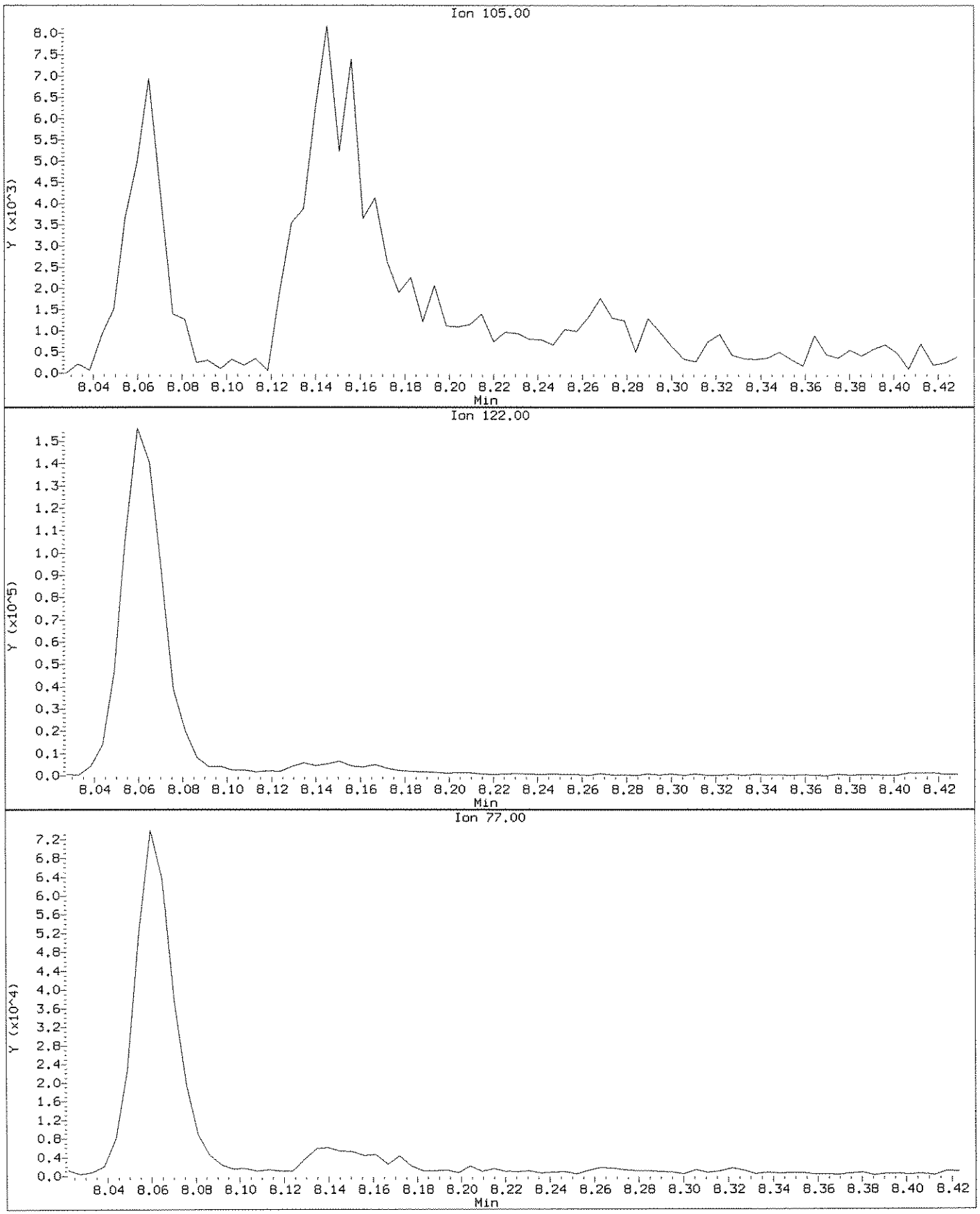
1109191

Data File: \\ELABNSH04\DD\chem\bna3.i\101511b3.b\919102MD.D
Injection Date: 15-OCT-2011 18:51
Instrument: bna3.i
Client Sample ID:

Compound: Benzoic acid
CAS Number: 65-85-0



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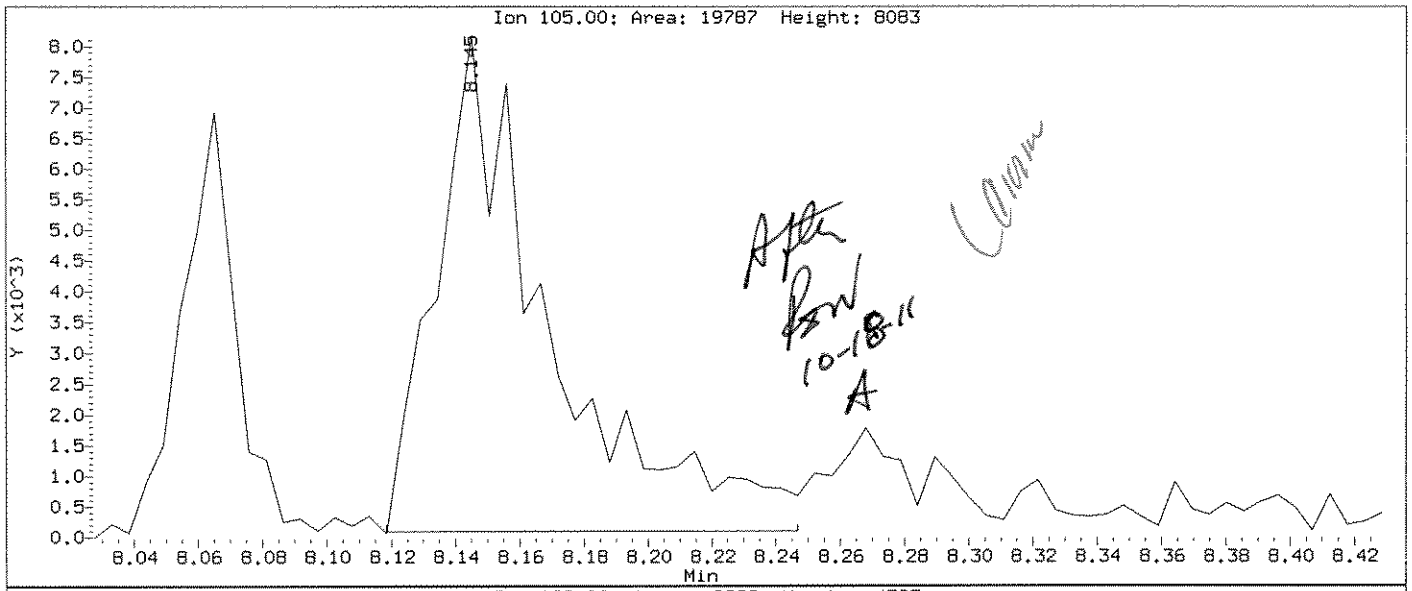
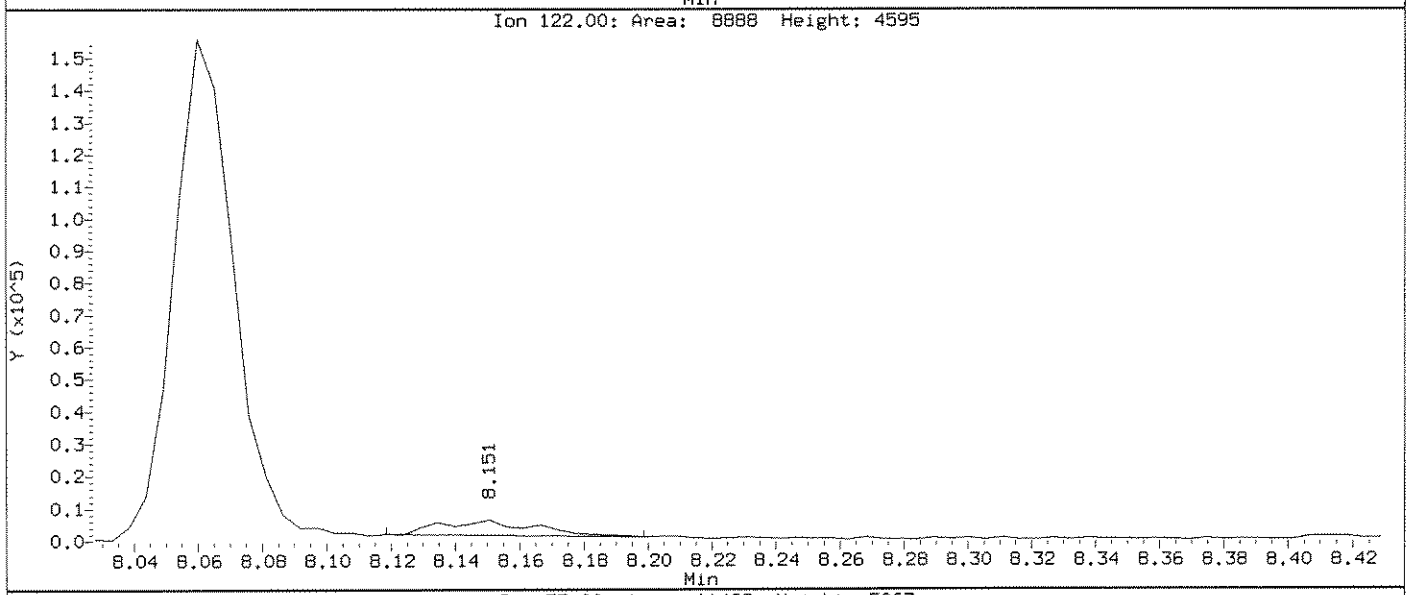
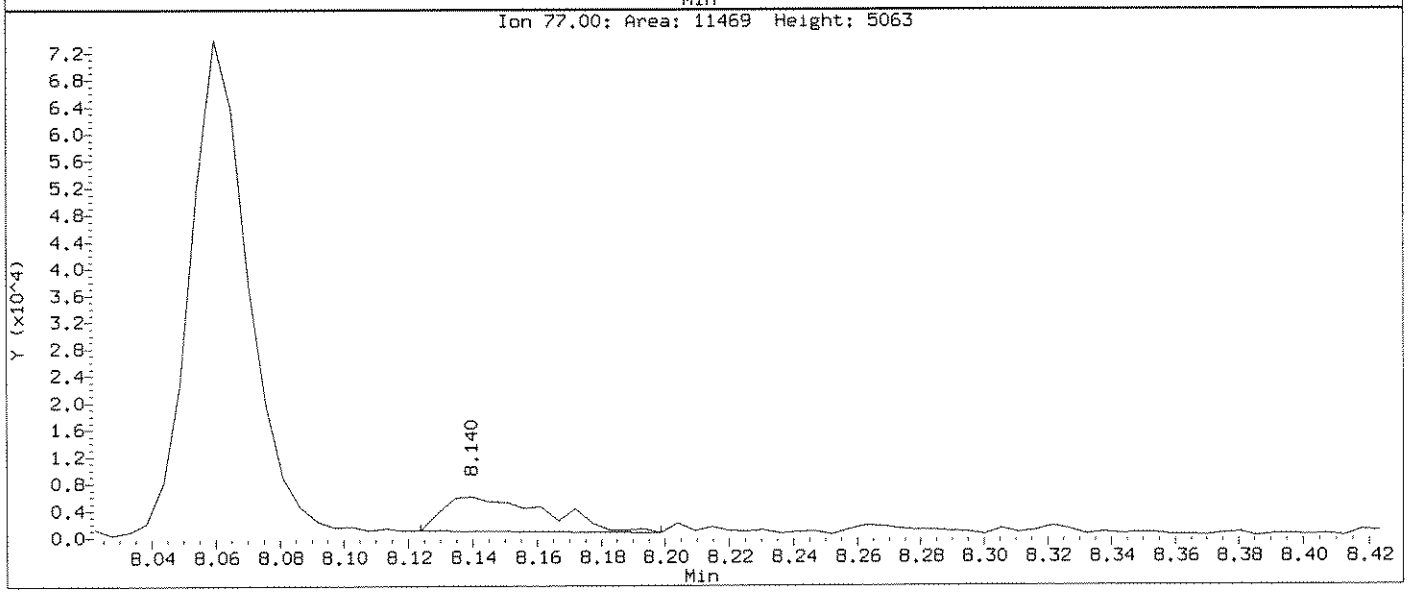
Instrument: bna3.i
Client Sample ID:

Compound: Benzoic acid
CAS Number: 65-85-0

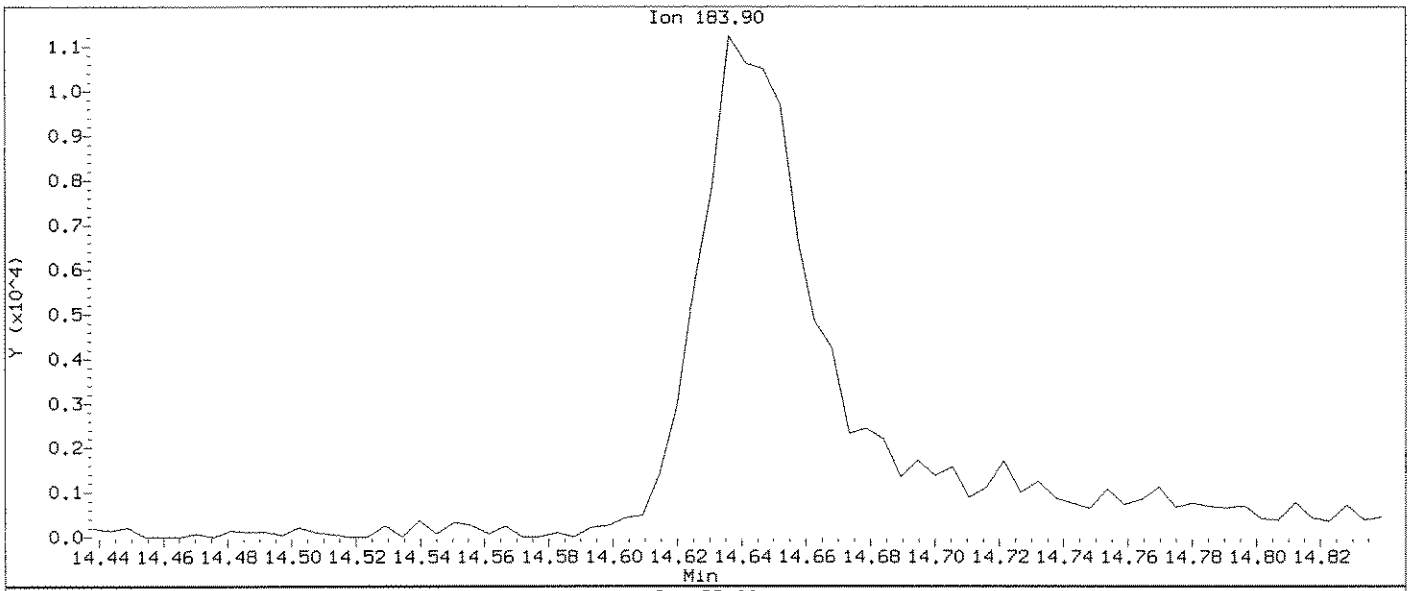


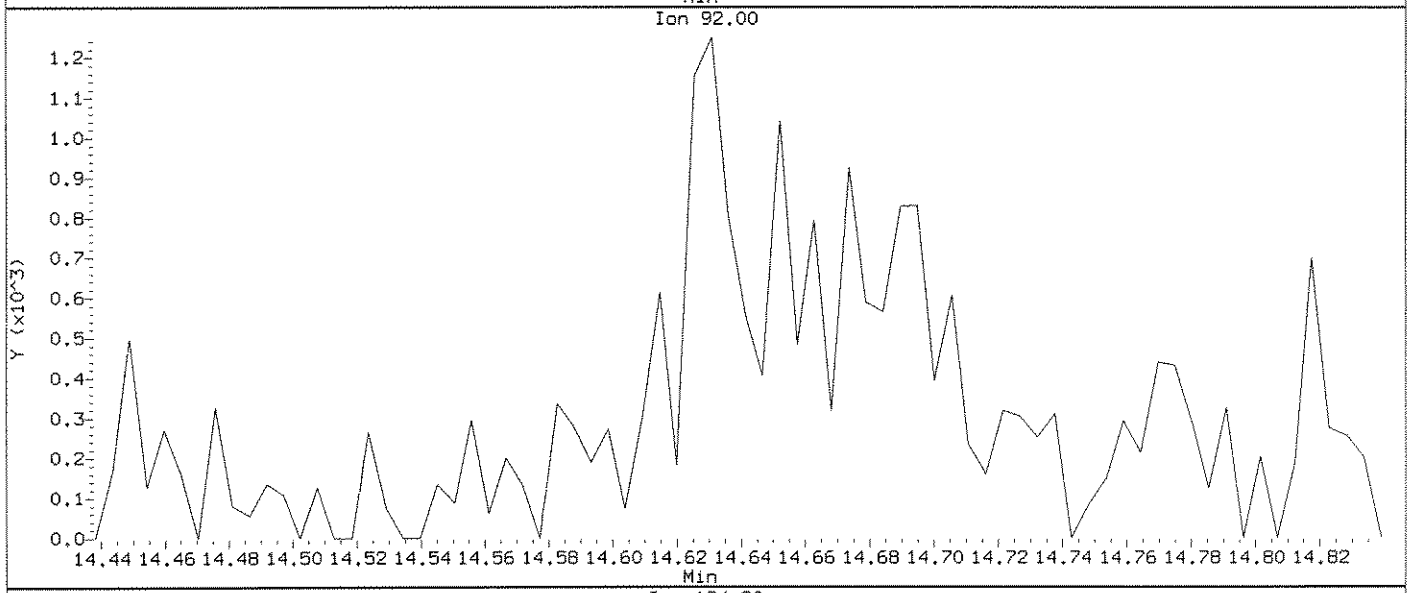


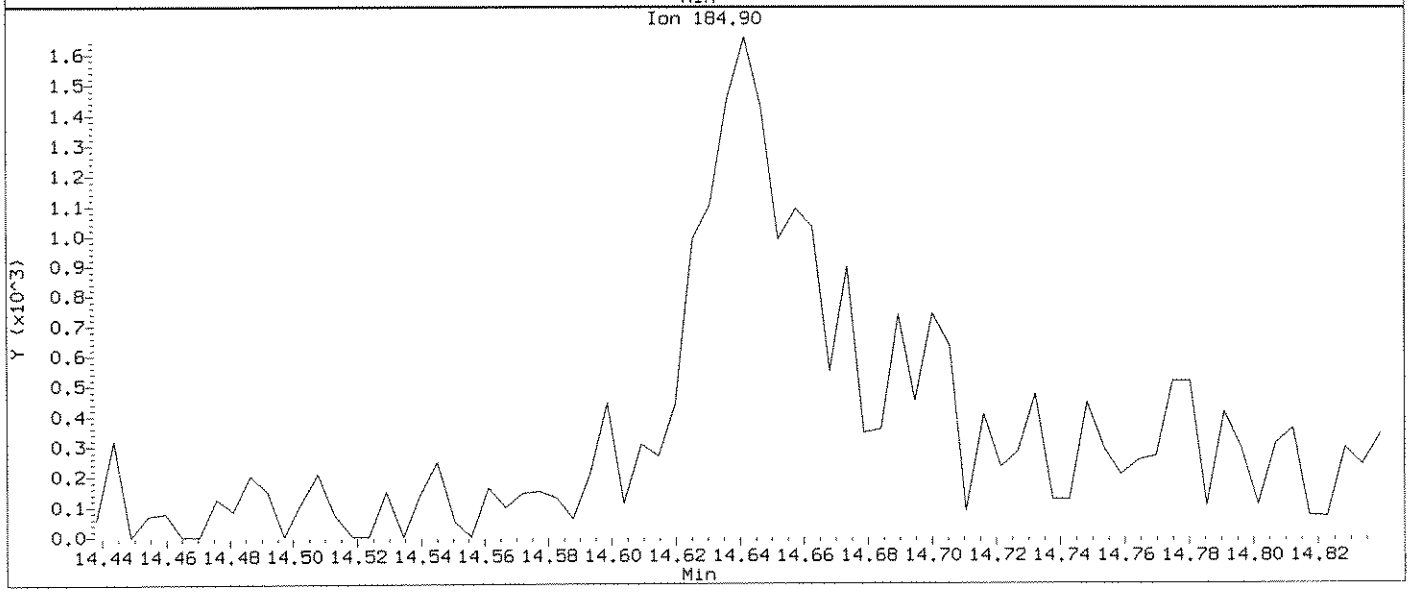


Data File: \\ELABNSH04\DD\chem\bna3.i\101511b3.b\919102MD.D
Injection Date: 15-OCT-2011 18:51
Instrument: bna3.i
Client Sample ID:

Compound: Benzidine
CAS Number: 92-87-5







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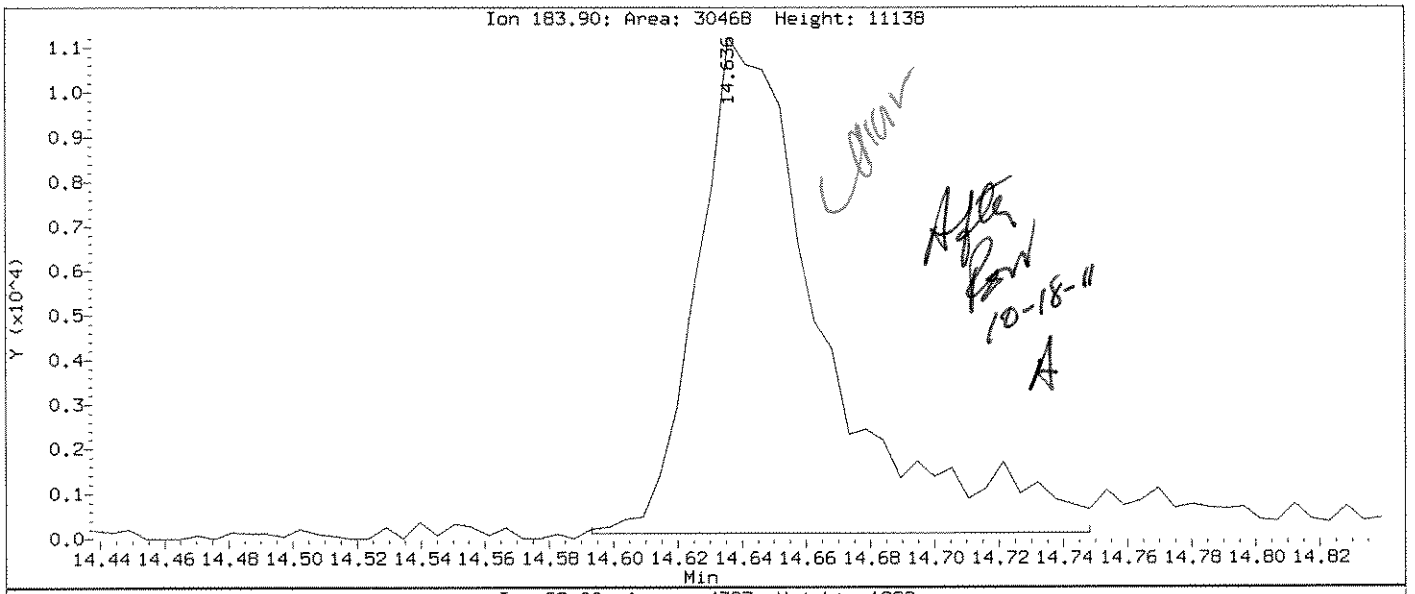
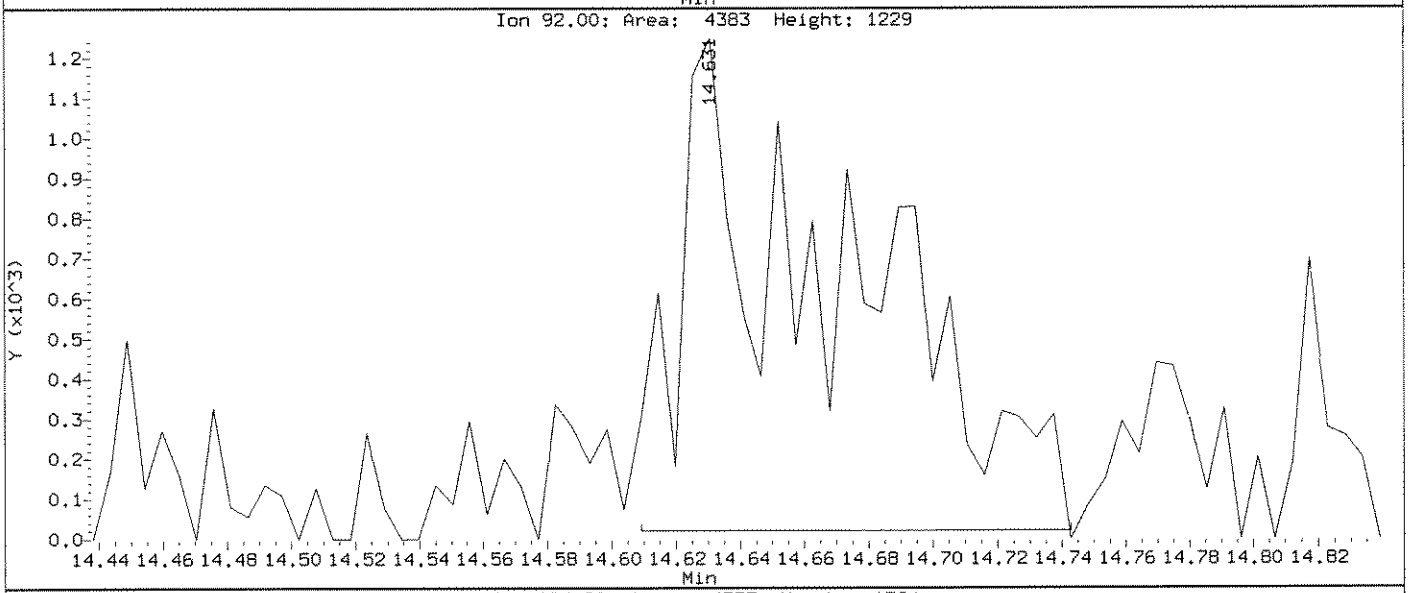
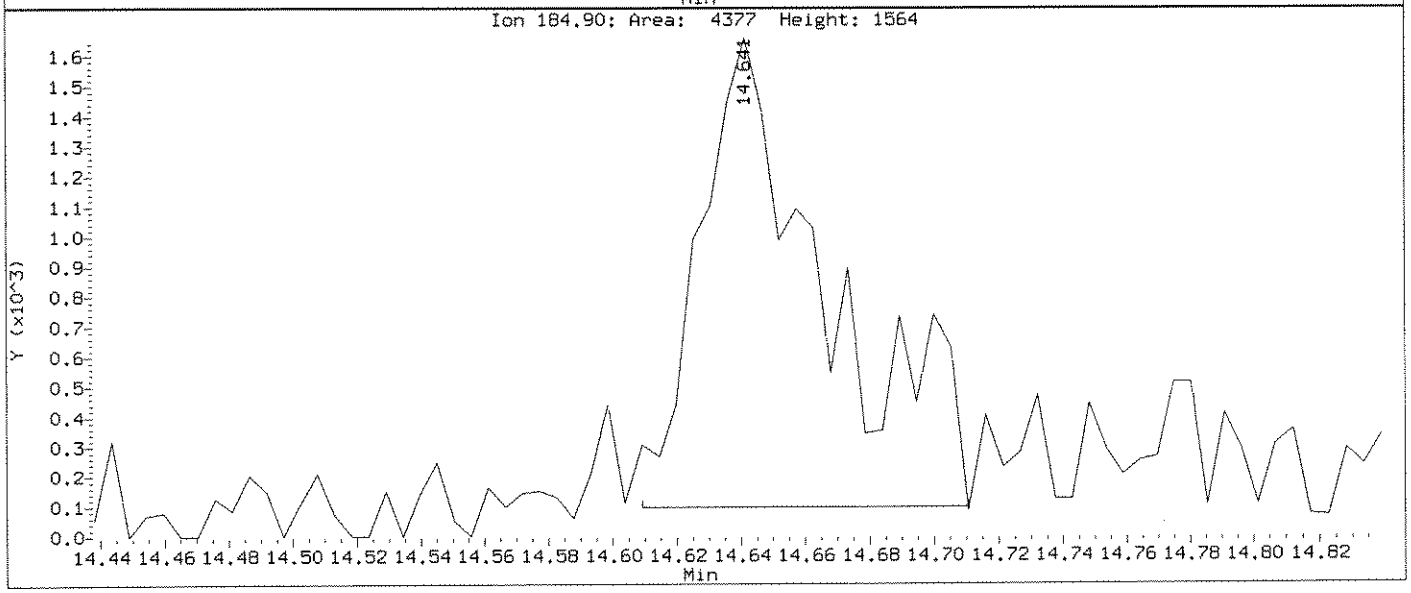
Injection Date: 15-OCT-2011 18:51
Instrument: bna3.i
Client Sample ID:

Compound: Benzidine
CAS Number: 92-87-5







Data File: \\ELABNSH04\DD\chem\bna3.i\101511b3.b\919102MD.D
Report Date: 17-Oct-2011 15:03

Laboratory Name

Data file : \\ELABNSH04\DD\chem\bna3.i\101511b3.b\919102MD.D
Lab Smp Id: 1J03009-MSD1
Inj Date : 15-OCT-2011 18:51 MS Autotune Date: 28-JUL-1998 06:19
Operator : GLQ Inst ID: bna3.i
Smp Info : 1J03009-MSD1;;15;1000;UG/KG;;04-OCT-2011
Misc Info : ;0;;;;1J03009;ppbnax.sub;
Comment :
Method : \\ELABNSH04\DD\chem\bna3.i\101511b3.b\IXBN3.m
Meth Date : 15-Oct-2011 14:04 rward Quant Type: ISTD
Cal Date : 30-APR-2011 01:58 Cal File: SEQ-CALG.D
Als bottle: 10 QC Sample: MSD
Dil Factor: 1.00000
Integrator: HP RTE Compound Sublist: ppbnax.sub
Target Version: 4.04
Processing Host: TARGET04_VM

Concentration Formula: Amt * DF * Uf * Vt* Vi/(Amt * Vi)

Name	Value	Description
DF	1.000	Dilution Factor
Uf	0.000	ng unit correction factor
Vt	1000.000	Volume of final extract (uL)
Vi	0.500	Volume injected (uL)
Amt	15.000	Volume of initial extraction

RDW 10-18-11

Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS ON-COLUMN (ng/ul)	FINAL (ug/L)
* 1 1,4-Dichlorobenzene-d4	152	6.884	6.888	(1.000)	276280	40.0000	
$ 2 2-Fluorophenol	112	5.324	5.328	(0.773)	513214	65.0546	65.05
$ 3 Phenol-d6	99	6.414	6.423	(0.932)	665403	61.2450	61.24
4 Pyridine	79	4.047	4.052	(0.588)	240017	23.4352	23.44
5 1,4-Dioxane	88	3.727	3.726	(0.541)	91631	24.5409	24.54
6 N-Nitroso-di-methylamine	42	3.983	3.987	(0.579)	178163	37.6771	37.68
7 Aniline	93	6.473	6.482	(0.940)	352614	24.3173	24.32
10 Phenol	94	6.430	6.439	(0.934)	325079	27.8872	27.89
11 bis(2-Chloroethyl)ether	93	6.537	6.546	(0.950)	291818	32.5537	32.55
12 2-Chlorophenol	128	6.628	6.632	(0.963)	246443	27.1331	27.13
13 1,3-Dichlorobenzene	146	6.815	6.819	(0.990)	331070	33.5721	33.57
14 1,4-Dichlorobenzene	146	6.905	6.910	(1.003)	333356	33.4014	33.40
15 Benzyl alcohol	108	7.050	7.059	(1.024)	171233	28.6020	28.60
16 1,2-Dichlorobenzene	146	7.092	7.097	(1.030)	306287	32.7564	32.76

10/18

Data File: \\ELABNSH04\DD\chem\bna3.i\101511b3.b\919102MD.D
Report Date: 17-Oct-2011 15:03

	Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS ON-COLUMN (ng/ul)	FINAL (ug/L)
	17 2-Methylphenol	108	7.188	7.193	(1.044)	226710	27.1573	27.16(Q)
	18 2,2'-Oxybis-1-chloropropane	45	7.210	7.214	(1.047)	372349	27.6866	27.69(Q)
	19 3-Methylphenol	108	7.381	7.390	(1.072)	241774	27.5969	27.60
	20 4-Methylphenol	108	7.381	7.390	(1.072)	241774	27.5969	27.60
	196 3-Methylphenol/4-Methylphenol	108	7.381	7.390	(1.072)	243808	27.8291	27.83
	21 N-Nitroso-di-n-propylamine	70	7.375	7.390	(1.071)	241950	33.8790	33.88
	22 Hexachloroethane	117	7.520	7.524	(1.092)	121080	32.0791	32.08
	32 Benzaldehyde	106	6.350	6.354	(0.922)	178215	25.5440	25.54
*	33 Naphthalene-d8	136	8.503	8.502	(1.000)	912041	40.0000	
$	34 Nitrobenzene-d5	82	7.578	7.588	(0.891)	339149	36.4969	36.50
	35 Nitrobenzene	77	7.605	7.609	(0.894)	353577	37.7491	37.75
	39 Isophorone	82	7.910	7.925	(0.930)	541576	31.9132	31.91
	40 2-Nitrophenol	139	8.006	8.010	(0.942)	134794	30.4502	30.45
	42 2,4-Dimethylphenol	107	8.059	8.069	(0.948)	254054	30.6390	30.64
	43 Benzoic acid	105	8.145	8.229	(0.958)	19787	3.23883	3.239(aM)
	44 bis(2-Chloroethoxy)methane	93	8.171	8.181	(0.961)	336449	34.5581	34.56
	47 2,4-Dichlorophenol	162	8.321	8.325	(0.979)	211484	30.4431	30.44
	62 2,6-Dichlorophenol	162	8.604	8.608	(1.012)	250023	36.7378	36.74
	50 1,2,4-Trichlorobenzene	180	8.423	8.421	(0.991)	278663	35.7175	35.72
	51 Naphthalene	128	8.529	8.534	(1.003)	778005	34.2620	34.26
	52 4-Chloroaniline	127	8.593	8.603	(1.011)	211186	21.9205	21.92
	53 Hexachlorobutadiene	225	8.668	8.672	(1.019)	199897	46.9183	46.92
	54 4-Chloro-3-methylphenol	107	9.224	9.233	(1.085)	222599	31.3557	31.36
	55 2-Methylnaphthalene	141	9.411	9.415	(1.107)	451725	33.1620	33.16
	56 1-Methylnaphthalene	141	9.534	9.538	(1.121)	411857	30.7578	30.76
	57 Acetophenone	105	7.386	7.390	(1.073)	382328	30.7182	30.72
	67 1,2,4,5-Tetrachlorobenzene	216	9.619	9.623	(1.131)	282680	36.9768	36.98
	68 Caprolactam	113	9.058	9.111	(1.065)	75801	29.4611	29.46
*	69 Acenaphthene-d10	164	10.730	10.735	(1.000)	523917	40.0000	
	70 Hexachlorocyclopentadiene	237	9.598	9.602	(0.894)	116639	23.7487	23.75
	71 2,4,6-Trichlorophenol	196	9.774	9.773	(0.911)	167968	33.5704	33.57
	72 2,4,5-Trichlorophenol	196	9.833	9.832	(0.916)	176948	32.6111	32.61
	73 2-Chloronaphthalene	162	10.031	10.035	(0.935)	522438	36.6688	36.67
$	74 2-Fluorobiphenyl	172	9.870	9.874	(0.920)	633297	38.2095	38.21
	75 2-Nitroaniline	65	10.164	10.168	(0.947)	166638	34.3829	34.38
	76 Dimethylphthalate	163	10.378	10.393	(0.967)	629538	38.6229	38.62
	77 Acenaphthylene	152	10.554	10.564	(0.984)	694356	30.7283	30.73
	78 2,6-Dinitrotoluene	165	10.463	10.473	(0.975)	135397	34.5514	34.55
	79 3-Nitroaniline	138	10.682	10.697	(0.996)	90097	21.2910	21.29
	80 Acenaphthene	153	10.773	10.777	(1.004)	480014	33.0057	33.00
	81 2,4-Dinitrophenol	184	10.816	10.825	(1.008)	20382	8.39154	8.392(a)
	83 4-Nitrophenol	65	10.923	10.922	(1.018)	95394	26.7597	26.76
	84 Dibenzofuran	168	10.987	10.996	(1.024)	730308	36.3214	36.32
	85 2,4-Dinitrotoluene	165	10.971	10.986	(1.022)	179274	34.8289	34.83
	86 Diethylphthalate	149	11.265	11.274	(1.050)	604755	38.6462	38.65
	87 4-Chlorophenyl-phenylether	204	11.414	11.418	(1.064)	303276	37.1453	37.14
	88 Fluorene	166	11.419	11.429	(1.064)	593422	33.8736	33.87

Data File: \\ELABNSH04\DD\chem\bna3.i\101511b3.b\919102MD.D
Report Date: 17-Oct-2011 15:03

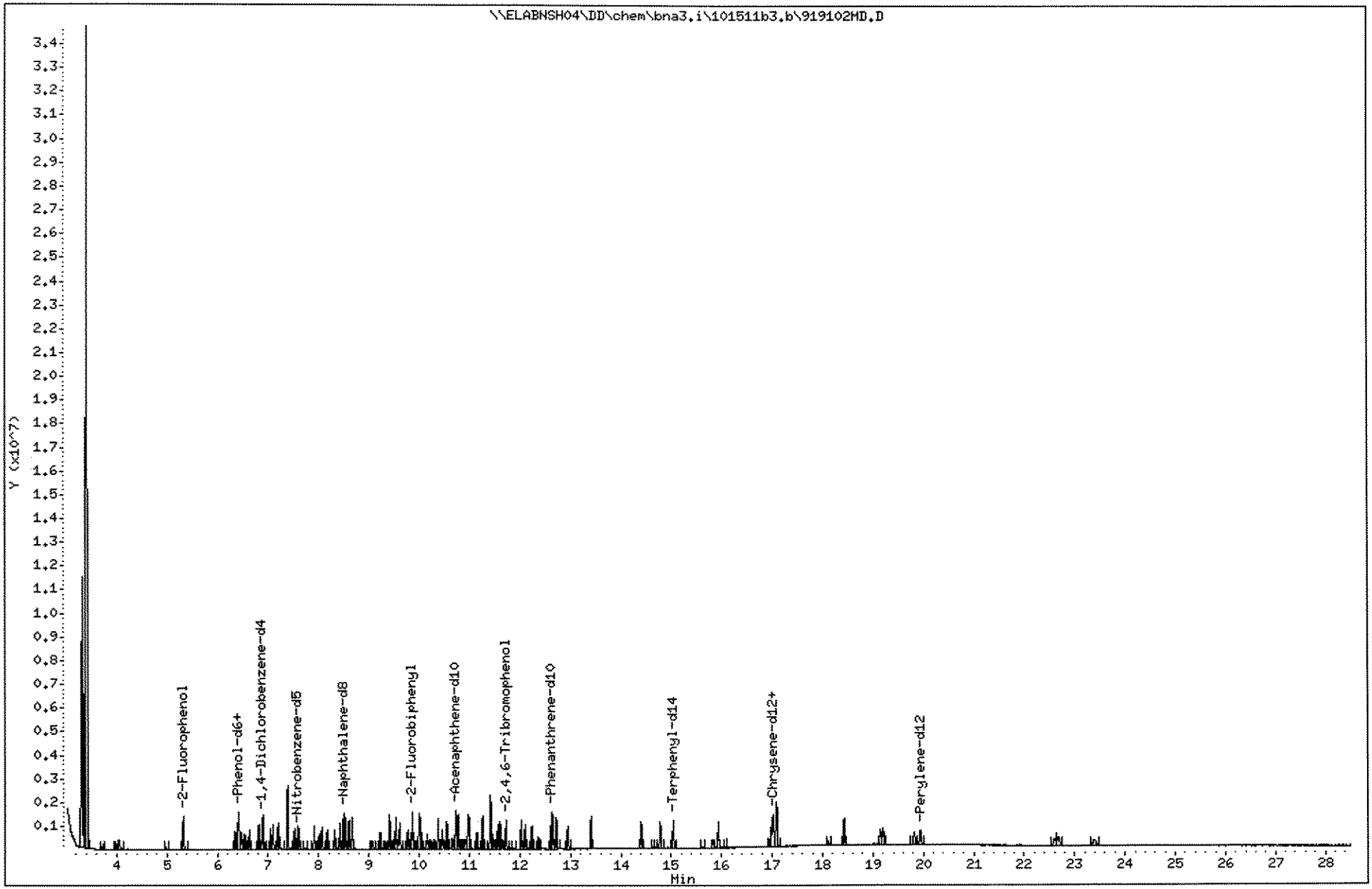
Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS ON-COLUMN (ng/ul)	FINAL (ug/L)
89 4-Nitroaniline	138	11.452	11.472	(1.067)	99229	23.1476	23.15
96 2,3,4,6-Tetrachlorophenol	232	11.147	11.151	(1.039)	131187	29.9812	29.98
100 1,1'-Biphenyl	154	9.998	10.003	(0.932)	649786	34.3451	34.34
* 102 Phenanthrene-d10	188	12.621	12.631	(1.000)	856836	40.0000	
103 1,2-Diphenylhydrazine	77	11.612	11.621	(0.920)	610610	33.5077	33.51
104 Carbazole	167	12.947	12.952	(1.026)	654266	29.2454	29.24
105 4,6-Dinitro-2-methylphenol	198	11.484	11.498	(0.910)	77331	24.8260	24.83
106 N-Nitrosodiphenylamine	169	11.564	11.573	(0.916)	360391	25.0030	25.00
$ 107 2,4,6-Tribromophenol	330	11.729	11.734	(0.929)	167570	71.2006	71.20
108 4-Bromophenyl-phenylether	248	12.028	12.033	(0.953)	193841	39.6063	39.61
109 Hexachlorobenzene	284	12.109	12.113	(0.959)	194446	37.1473	37.15
110 Pentachlorophenol	266	12.370	12.380	(0.980)	85999	24.7350	24.74
111 Phenanthrene	178	12.653	12.663	(1.003)	820510	35.6031	35.60
112 Anthracene	178	12.723	12.733	(1.008)	797506	34.0727	34.07
115 Di-n-butylphthalate	149	13.407	13.416	(1.062)	911361	35.9941	35.99
116 Fluoranthene	202	14.406	14.415	(1.141)	833818	31.5483	31.55
129 Atrazine	200	12.237	12.246	(0.970)	166175	33.0860	33.08
* 132 Chrysene-d12	240	17.023	17.038	(1.000)	727651	40.0000	
133 Benzidine	184	14.635	14.640	(0.860)	30468	2.61169	2.612(aM)
134 Pyrene	202	14.780	14.795	(0.868)	840528	39.7030	39.70
$ 135 Terphenyl-d14	244	15.036	15.046	(0.883)	585781	43.1525	43.15
136 Butylbenzylphthalate	149	15.939	15.943	(0.936)	382604	41.0001	41.00
137 3,3'-Dichlorobenzidine	252	16.965	16.980	(0.997)	187627	25.3591	25.36
138 Benzo(a)anthracene	228	17.002	17.017	(0.999)	708855	34.8136	34.81
139 Chrysene	228	17.077	17.092	(1.003)	680387	35.6934	35.69
140 Bis(2-ethylhexyl)phthalate	149	17.087	17.097	(1.004)	503396	40.7362	40.74
* 154 Perylene-d12	264	19.946	19.955	(1.000)	559470	40.0000	
155 Di-n-octylphthalate	149	18.423	18.433	(0.924)	832581	49.4264	49.43
156 Benzo(b)fluoranthene	252	19.144	19.170	(0.960)	586154	38.3175	38.32
157 Benzo(k)fluoranthene	252	19.203	19.218	(0.963)	575382	37.1369	37.14
158 Benzo(a)pyrene	252	19.817	19.832	(0.994)	485361	33.1798	33.18
159 Indeno(1,2,3-cd)pyrene	276	22.606	22.631	(1.133)	425163	29.2845	29.28
160 Dibenz(a,h)anthracene	278	22.681	22.701	(1.137)	406450	28.9301	28.93
161 Benzo(g,h,i)perylene	276	23.391	23.427	(1.173)	399953	27.6779	27.68

QC Flag Legend

a - Target compound detected but, quantitated amount Below Limit Of Quantitation(BLOQ).
Q - Qualifier signal failed the ratio test.
M - Compound response manually integrated.

Data File: \\ELABNSH04\DD\chem\bna3.i\101511b3.b\919102MD.D
Date : 15-OCT-2011 18:51
Client ID:
Sample Info: 1J03009-MSD1;;15;1000;UG/KG;;04-OCT-2011
Volume Injected (uL): 0.5
Column phase: fused silica

Instrument: bna3.i
Operator: GLQ
Column diameter: 0.25



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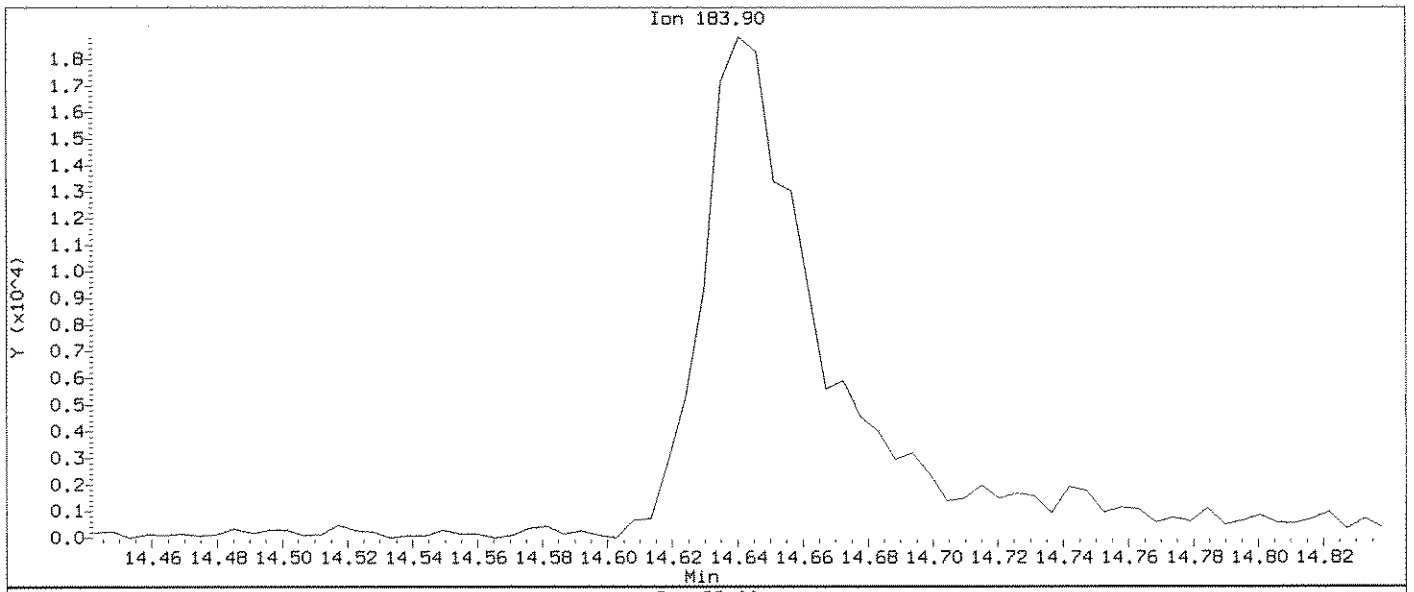
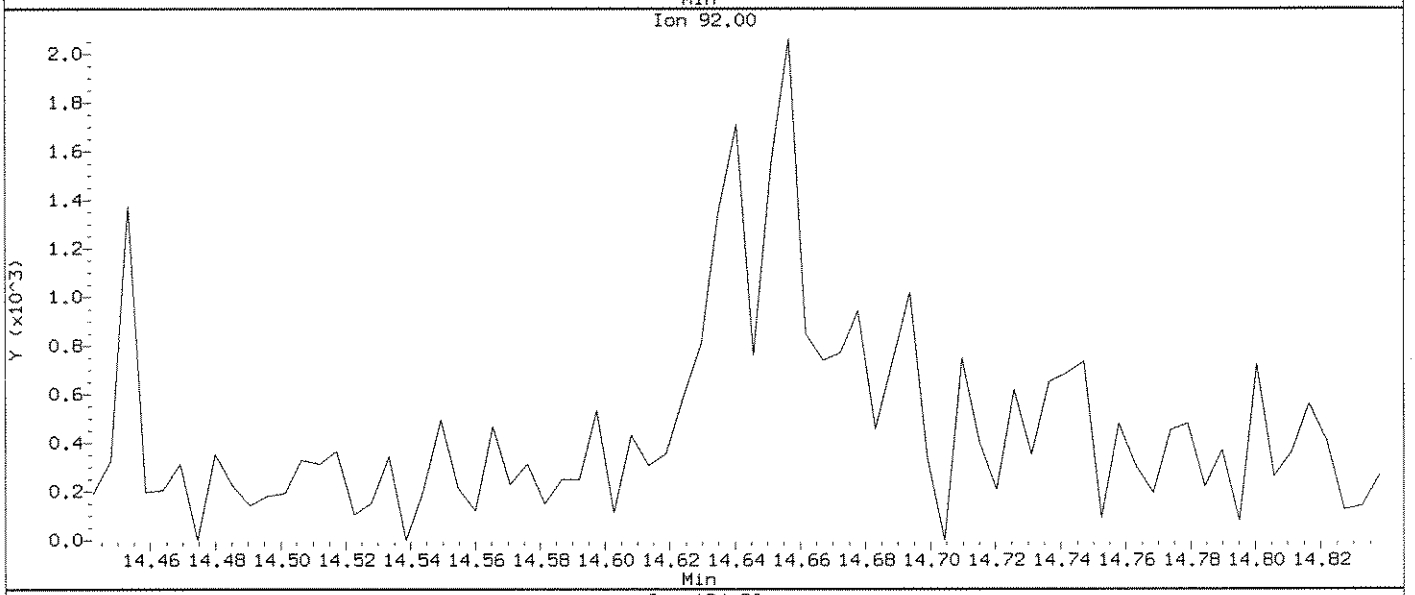
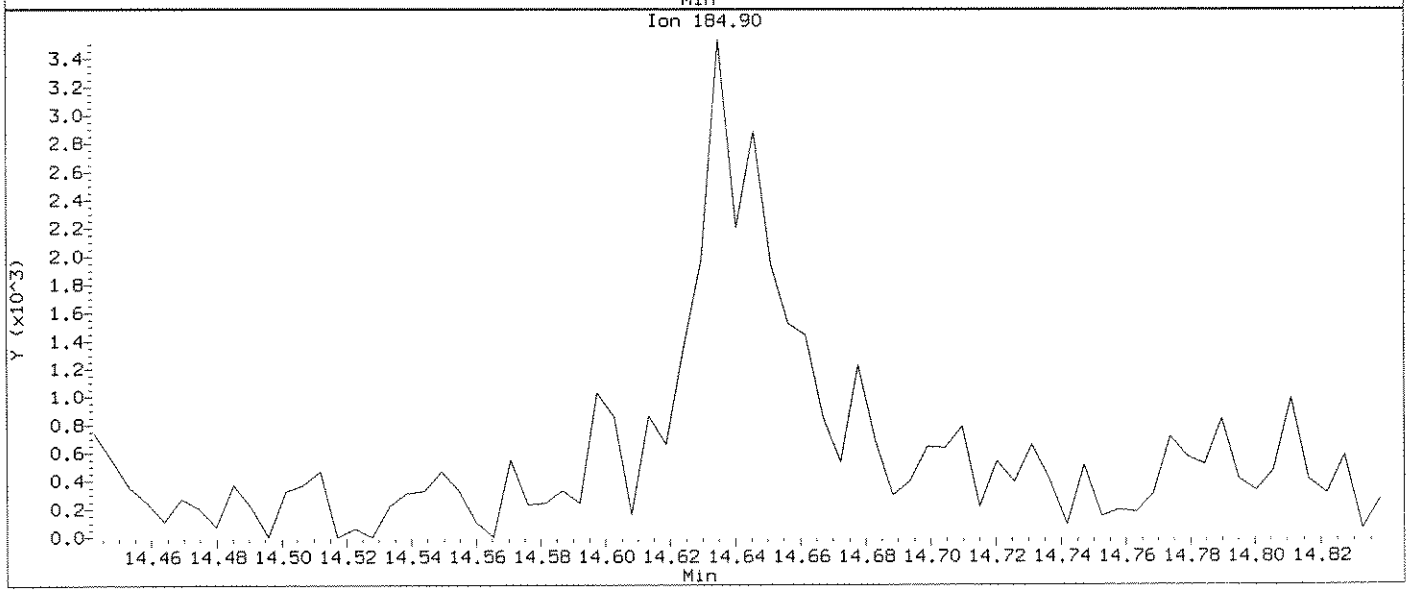
1109191

Data File: \\ELABNSHO4\DD\chem\bna3.i\101511b3.b\919102MS.D
Injection Date: 15-OCT-2011 18:11
Instrument: bna3.i
Client Sample ID:

Compound: Benzidine
CAS Number: 92-87-5







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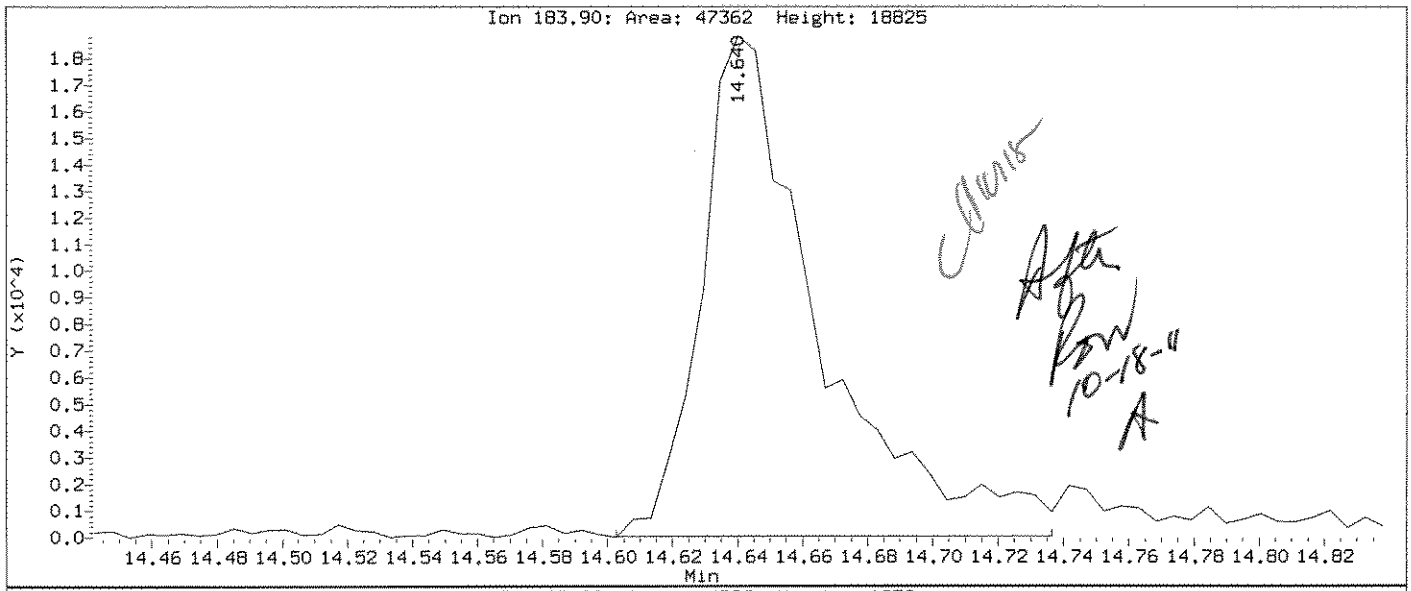
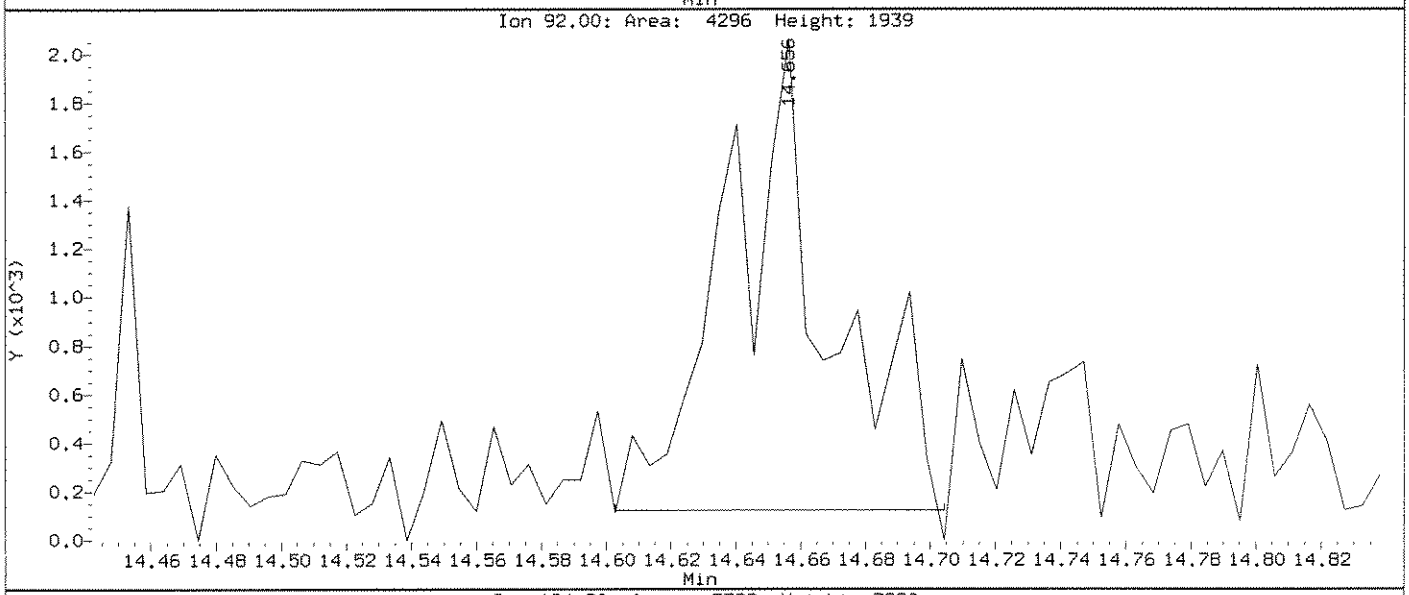
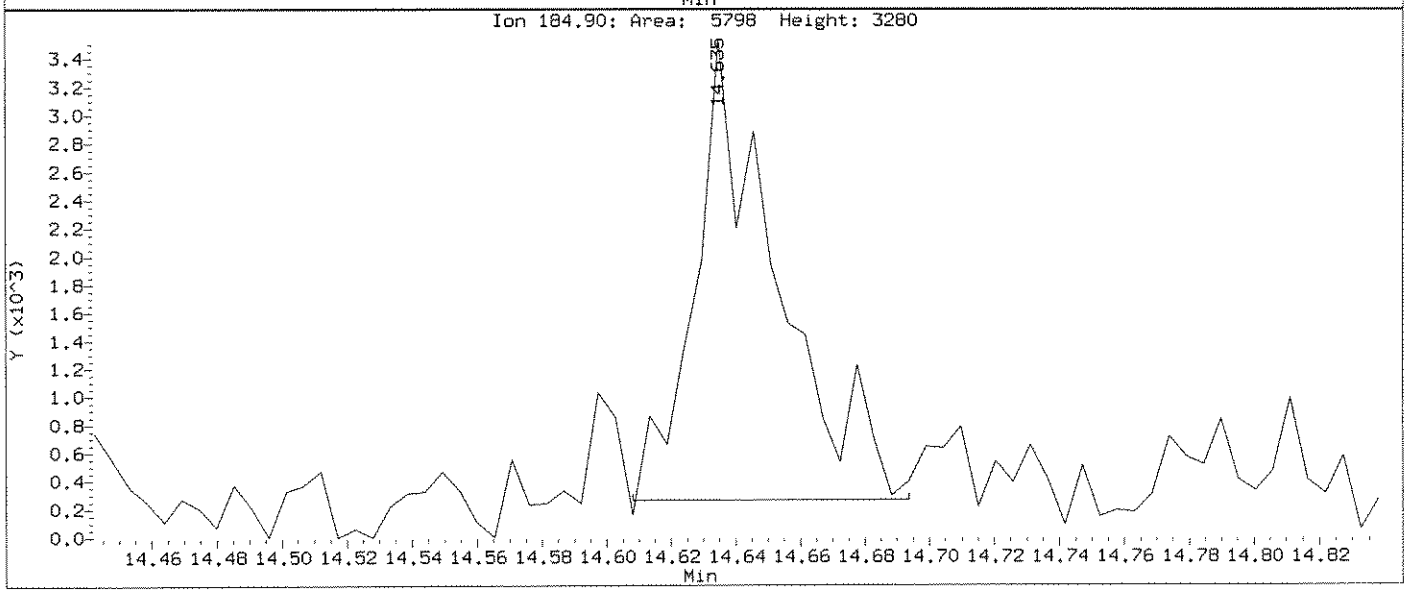
Injection Date: 15-OCT-2011 18:11
Instrument: bna3.i
Client Sample ID:

Compound: Benzidine
CAS Number: 92-87-5







Data File: \\ELABNSH04\DD\chem\bna3.i\101511b3.b\0919106.D
Report Date: 17-Oct-2011 14:52

Laboratory Name

Data file : \\ELABNSH04\DD\chem\bna3.i\101511b3.b\0919106.D
Lab Smp Id: 1109191-06 Client Smp ID: FLC-4-SB02-0204-092
Inj Date : 15-OCT-2011 19:30 MS Autotune Date: 28-JUL-1998 06:19
Operator : GLQ Inst ID: bna3.i
Smp Info : 1109191-06;;15;1000;UG/KG;;04-OCT-2011
Misc Info : ;0;;;;1J03009;ppbnax.sub;
Comment :
Method : \\ELABNSH04\DD\chem\bna3.i\101511b3.b\IXBN3.m
Meth Date : 15-Oct-2011 14:04 rward Quant Type: ISTD
Cal Date : 30-APR-2011 01:58 Cal File: SEQ-CALG.D
Als bottle: 11
Dil Factor: 1.00000
Integrator: HP RTE Compound Sublist: ppbnax.sub
Target Version: 4.04
Processing Host: TARGET04_VM

Concentration Formula: Amt * DF * Uf * Vt*Vi/(Amt * Vi * (Solids/100))

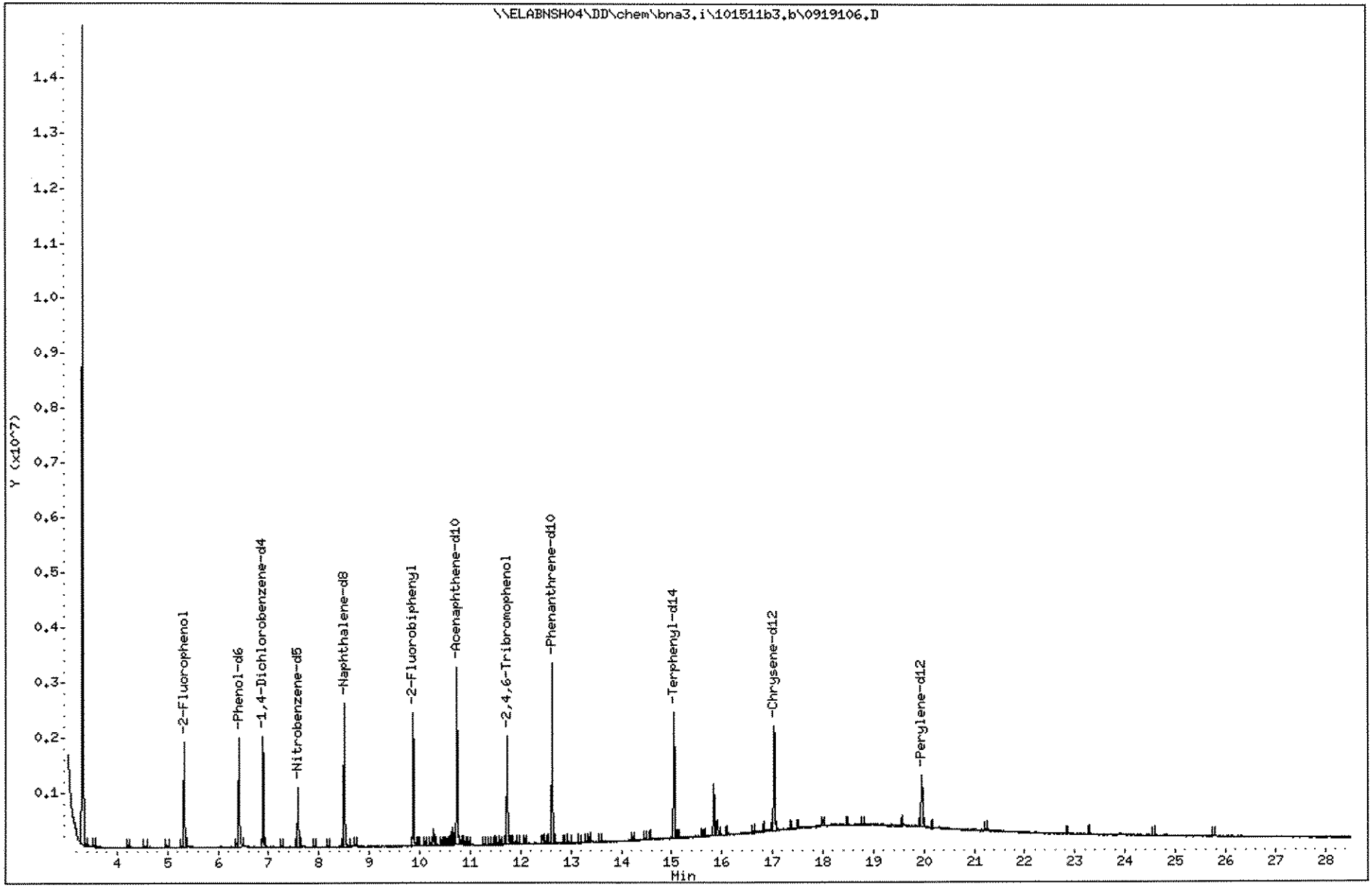
Name	Value	Description
DF	1.000	Dilution Factor
Uf	0.000	ng unit correction factor
Vt	1000.000	Volume of final extract (uL)(1000 low, 2
Amt	15.000	Mass of initial extraction
Vi	0.500	Volume injected (uL)
Solids	100.000	Percent Solids

RW 10-18-11

Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS ON-COLUMN (ng/ul)	FINAL (ug/Kg)
* 1 1,4-Dichlorobenzene-d4	152	6.889	6.888	(1.000)	435835	40.0000	
$ 2 2-Fluorophenol	112	5.329	5.328	(0.774)	702493	56.4480	56.45
$ 3 Phenol-d6	99	6.414	6.423	(0.931)	960683	56.0523	56.05
* 33 Naphthalene-d8	136	8.502	8.502	(1.000)	1579830	40.0000	
$ 34 Nitrobenzene-d5	82	7.584	7.588	(0.892)	509880	31.6765	31.68
* 69 Acenaphthene-d10	164	10.735	10.735	(1.000)	1041684	40.0000	
$ 74 2-Fluorobiphenyl	172	9.875	9.874	(0.920)	1068373	32.4200	32.42
* 102 Phenanthrene-d10	188	12.627	12.631	(1.000)	1798520	40.0000	
$ 107 2,4,6-Tribromophenol	330	11.734	11.734	(0.929)	306614	62.0671	62.07
* 132 Chrysene-d12	240	17.034	17.038	(1.000)	1360589	40.0000	
$ 135 Terphenyl-d14	244	15.046	15.046	(0.883)	1159775	45.6920	45.69
* 154 Perylene-d12	264	19.961	19.955	(1.000)	889853	40.0000	

Data File: \\ELABNSH04\DD\chem\bna3.i\101511b3.b\0919106.D
Date : 15-OCT-2011 19:30
Client ID: FLC-4-SB02-0204-092
Sample Info: 1109191-06;;15;1000;UG/KG;;04-OCT-2011
Volume Injected (uL): 0.5
Column phase: fused silica

Instrument: bna3.i
Operator: CLQ
Column diameter: 0.25



794

1109191

Data File: \\ELABNSH04\DD\chem\bna3.i\101511b3.b\0919104D.D
Report Date: 17-Oct-2011 14:52

Laboratory Name

Data file : \\ELABNSH04\DD\chem\bna3.i\101511b3.b\0919104D.D
Lab Smp Id: 1109191-04 Client Smp ID: FLC-4-SS02-0006-092
Inj Date : 15-OCT-2011 20:10 MS Autotune Date: 28-JUL-1998 06:19
Operator : GLQ Inst ID: bna3.i
Smp Info : 1109191-04;;15;1000;UG/KG;;04-OCT-2011
Misc Info : ;0;;;;1J03009;ppbnax.sub;
Comment :
Method : \\ELABNSH04\DD\chem\bna3.i\101511b3.b\IXBN3.m
Meth Date : 15-Oct-2011 14:04 rward Quant Type: ISTD
Cal Date : 30-APR-2011 01:58 Cal File: SEQ-CALG.D
Als bottle: 12
Dil Factor: 5.00000
Integrator: HP RTE Compound Sublist: ppbnax.sub
Target Version: 4.04
Processing Host: TARGET04_VM

Concentration Formula: Amt * DF * Uf * Vt*Vi/(Amt * Vi * (Solids/100))

Name	Value	Description
DF	5.000	Dilution Factor
Uf	0.000	ng unit correction factor
Vt	1000.000	Volume of final extract (uL)(1000 low, 2
Amt	15.000	Mass of initial extraction
Vi	0.500	Volume injected (uL)
Solids	100.000	Percent Solids

RSN 10-16-11

Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS ON-COLUMN (ng/ul)	FINAL (ug/Kg)
* 1 1,4-Dichlorobenzene-d4	152	6.885	6.888	(1.000)	502618	40.0000	
$ 2 2-Fluorophenol	112	5.325	5.328	(0.773)	82410	5.74210	28.71(R)
$ 3 Phenol-d6	99	6.415	6.423	(0.932)	115743	5.85588	29.28(R)
* 33 Naphthalene-d8	136	8.504	8.502	(1.000)	1997075	40.0000	
$ 34 Nitrobenzene-d5	82	7.580	7.588	(0.891)	66708	3.27841	16.39(aR)
* 69 Acenaphthene-d10	164	10.737	10.735	(1.000)	1367673	40.0000	
$ 74 2-Fluorobiphenyl	172	9.877	9.874	(0.920)	154078	3.56110	17.80(aR)
77 Acenaphthylene	152	10.560	10.564	(0.984)	46409	0.78675	3.934(a)
* 102 Phenanthrene-d10	188	12.633	12.631	(1.000)	2601747	40.0000	
$ 107 2,4,6-Tribromophenol	330	11.741	11.734	(0.929)	45650	6.38794	31.94(R)
116 Fluoranthene	202	14.412	14.415	(1.141)	76523	0.95352	4.768(a)
* 132 Chrysene-d12	240	17.040	17.038	(1.000)	2150347	40.0000	
134 Pyrene	202	14.791	14.795	(0.868)	114703	1.83341	9.167(a)

Data File: \\ELABNSH04\DD\chem\bna3.i\101511b3.b\0919104D.D
Report Date: 17-Oct-2011 14:52

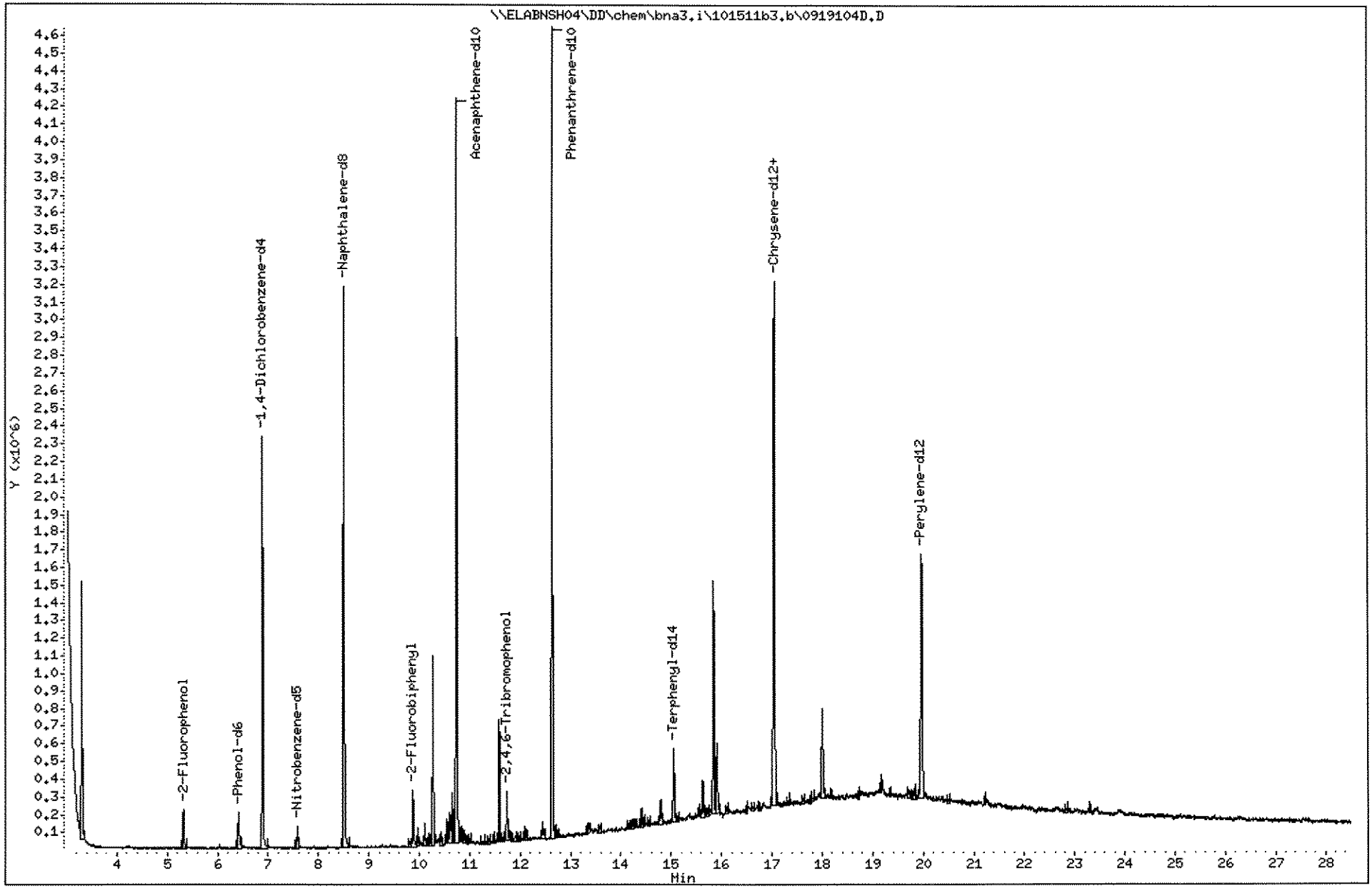
Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS ON-COLUMN (ng/ul)	FINAL (ug/Kg)
$ 135 Terphenyl-d14	244	15.048	15.046	(0.883)	210033	5.23567	26.18
138 Benzo(a)anthracene	228	17.008	17.017	(0.998)	58110	0.96573	4.829(aQM)
139 Chrysene	228	17.089	17.092	(1.003)	68981	1.22455	6.123(a)
* 154 Perylene-d12	264	19.968	19.955	(1.000)	1351416	40.0000	
156 Benzo(b)fluoranthene	252	19.156	19.170	(0.959)	73678	1.99394	9.970(a)
157 Benzo(k)fluoranthene	252	19.204	19.218	(0.962)	20786	0.55540	2.777(aQM)

QC Flag Legend

a - Target compound detected but, quantitated amount
    Below Limit Of Quantitation(BLOQ).
Q - Qualifier signal failed the ratio test.
R - Spike/Surrogate failed recovery limits.
M - Compound response manually integrated.

Data File: \\ELABNSH04\DD\chem\bna3.i\101511b3.b\0919104D.D
Date : 15-OCT-2011 20:10
Client ID: FLC-4-SS02-0006-092
Sample Info: 1109191-04;;15;1000;UG/KG;;04-OCT-2011
Volume Injected (uL): 0.5
Column phase: fused silica

Instrument: bna3.i
Operator: GLQ
Column diameter: 0.25



797

1109191

Data File: \\ELABNSH04\DD\chem\bna3.i\101511b3.b\0919104D.D

Date : 15-OCT-2011 20:10

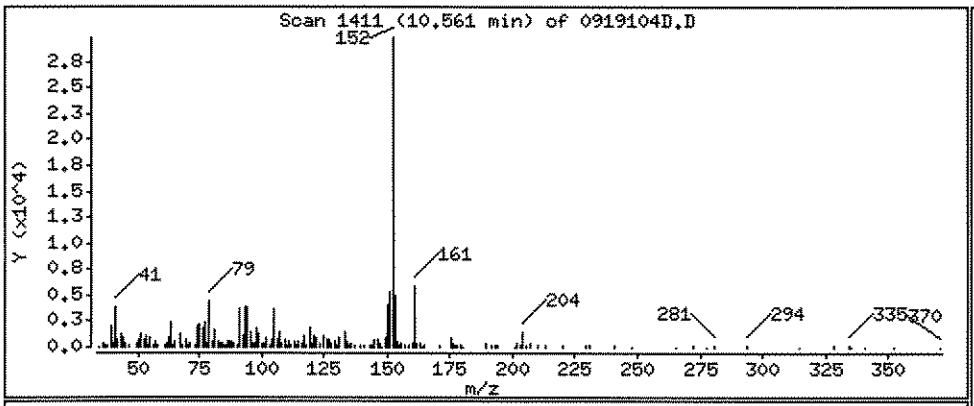
Client ID: FLC-4-SS02-0006-092 Instrument: bna3.i

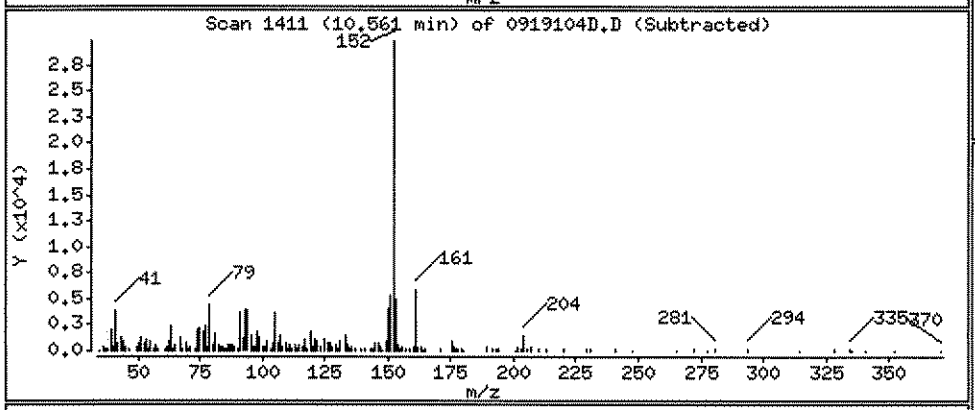
Sample Info: 1109191-04;;15;1000;UG/KG;;04-OCT-2011

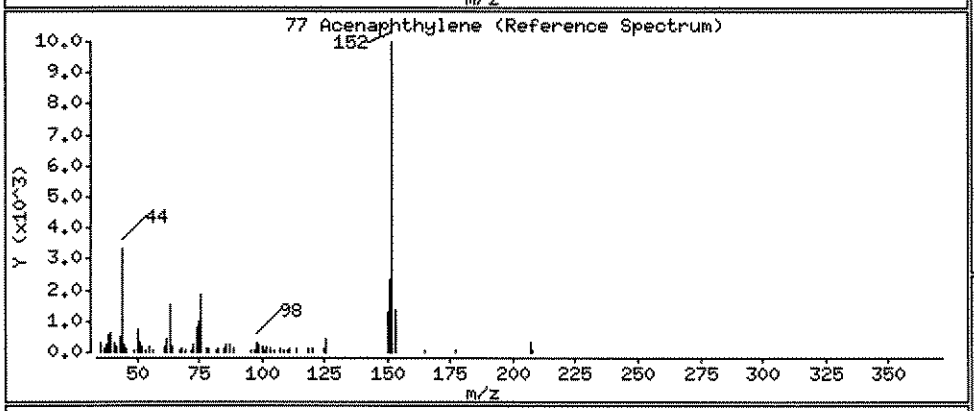
Volume Injected (uL): 0.5 Operator: GLQ

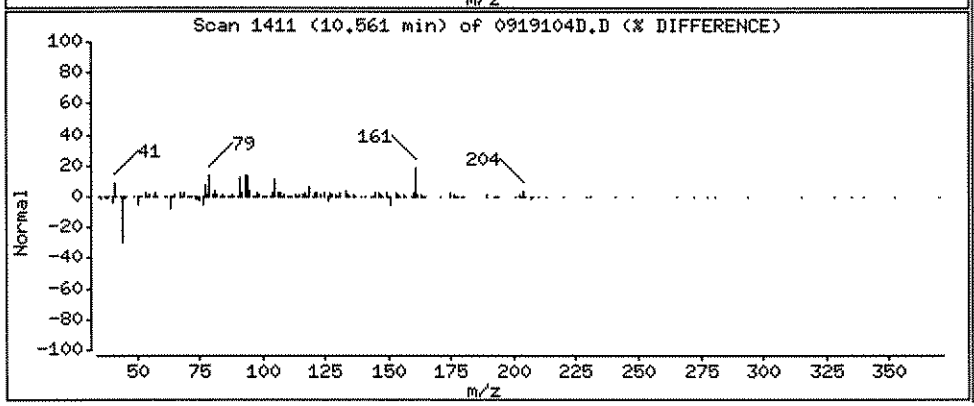
Column phase: fused silica Column diameter: 0.25

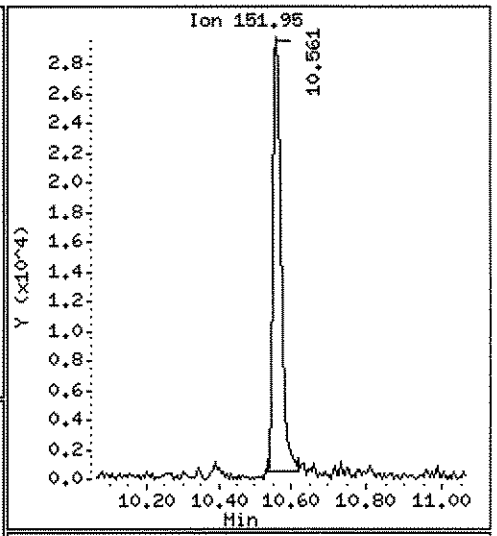
77 Acenaphthylene Concentration: 3.934 ug/Kg

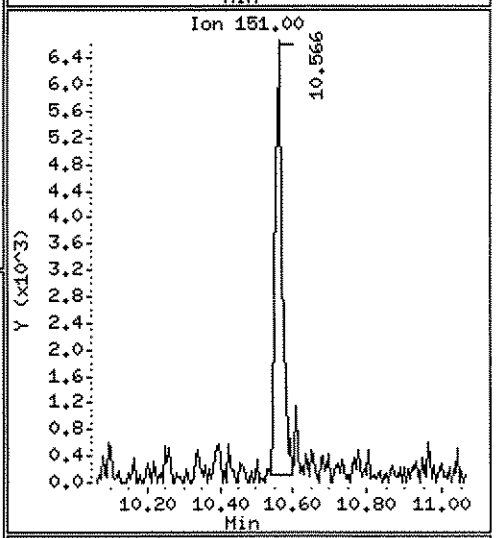


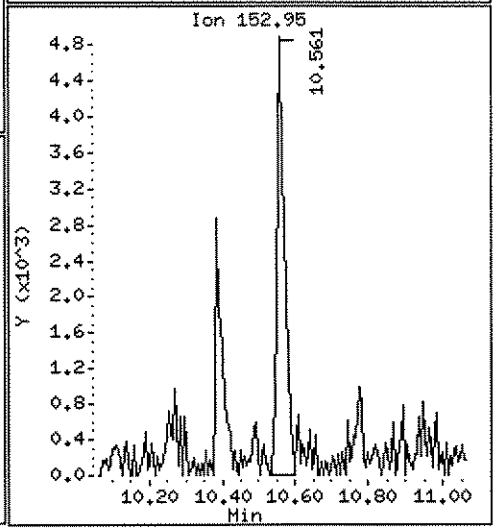












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Date : 15-OCT-2011 20:10

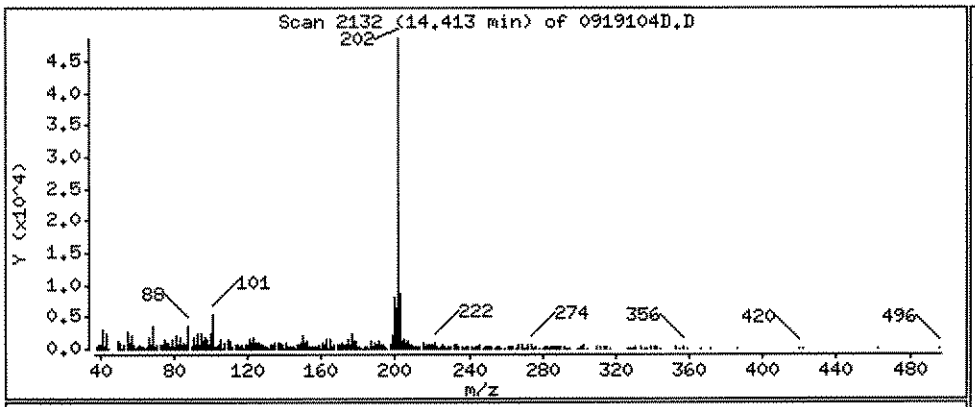
Client ID: FLC-4-SS02-0006-092 Instrument: bna3.i

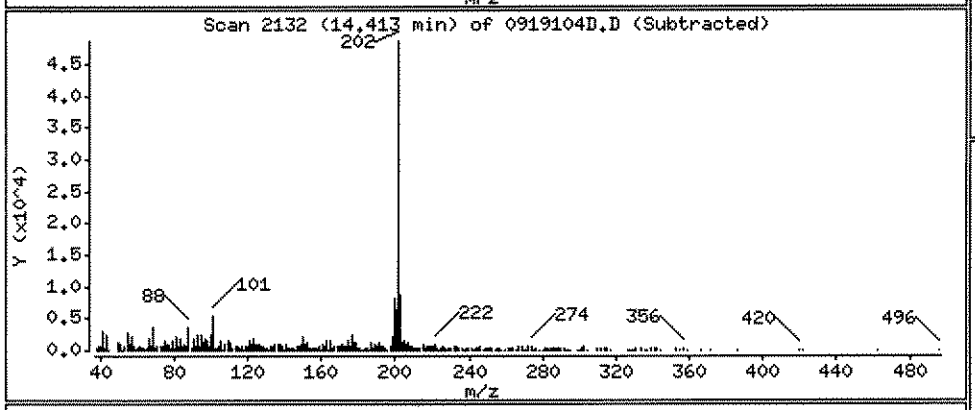
Sample Info: 1109191-04;;15;1000;UG/KG;;04-OCT-2011

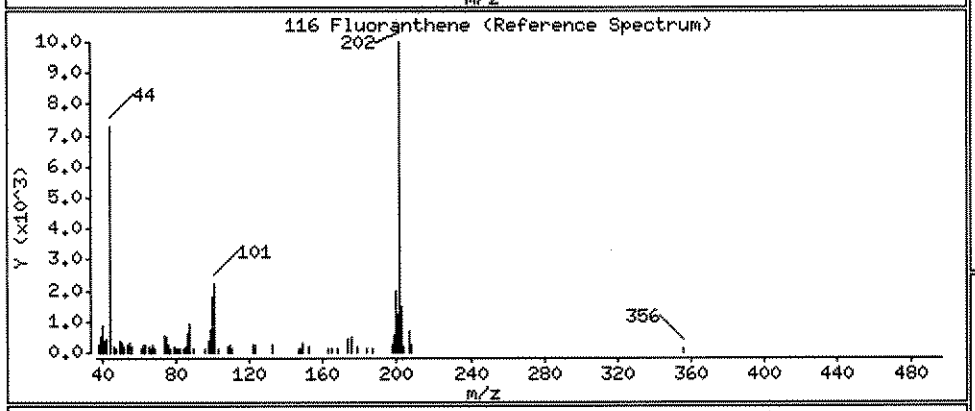
Volume Injected (uL): 0.5 Operator: GLQ

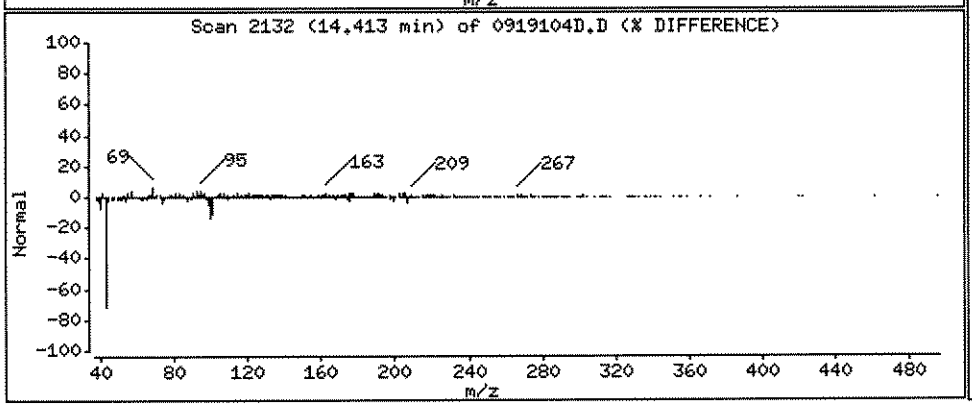
Column phase: fused silica Column diameter: 0.25

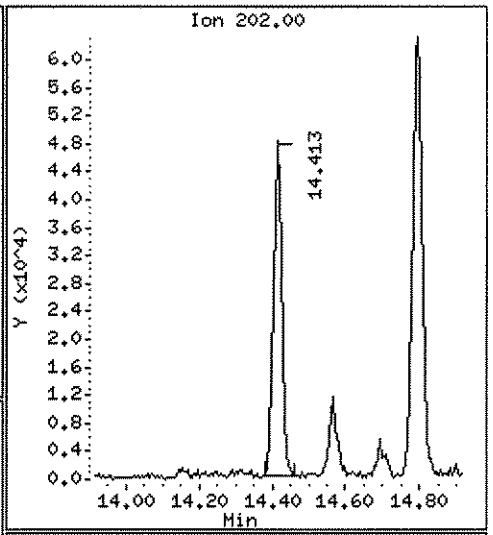
116 Fluoranthene Concentration: 4.768 ug/Kg

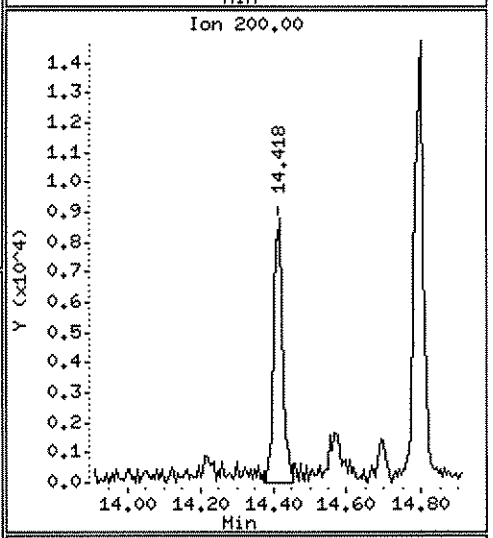


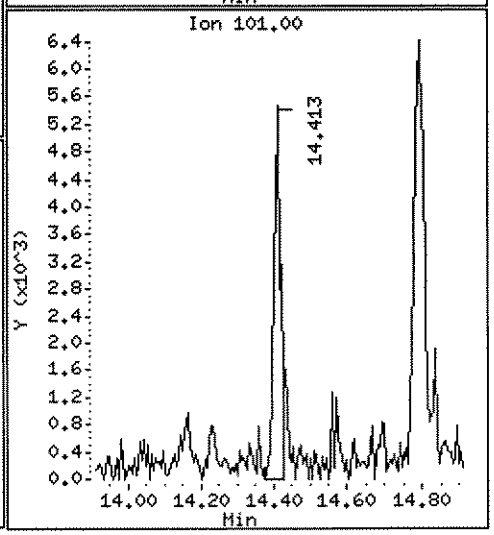












Data File: \\ELABNSH04\DD\chem\bna3.i\101511b3.b\0919104D.D

Date : 15-OCT-2011 20:10

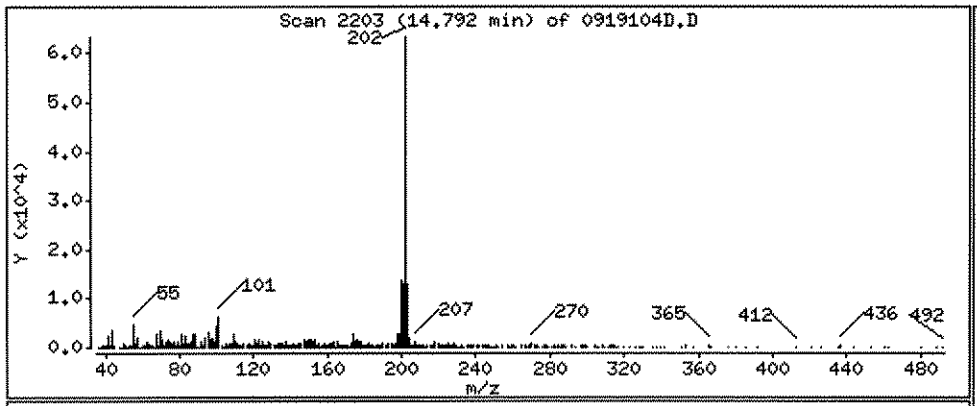
Client ID: FLC-4-SS02-0006-092 Instrument: bna3.i

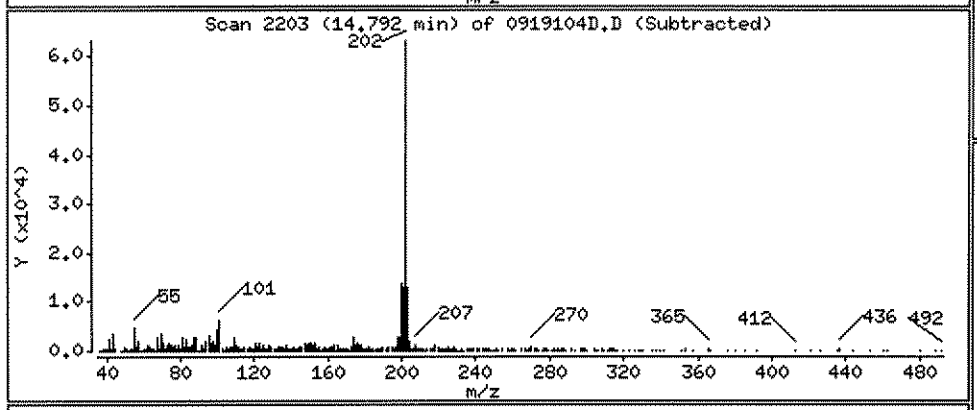
Sample Info: 1109191-04;;15;1000;UG/KG;;04-OCT-2011

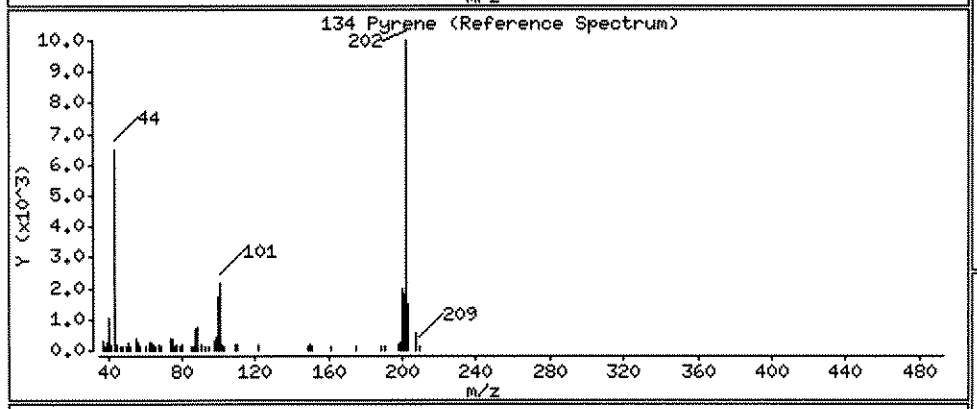
Volume Injected (uL): 0.5 Operator: GLQ

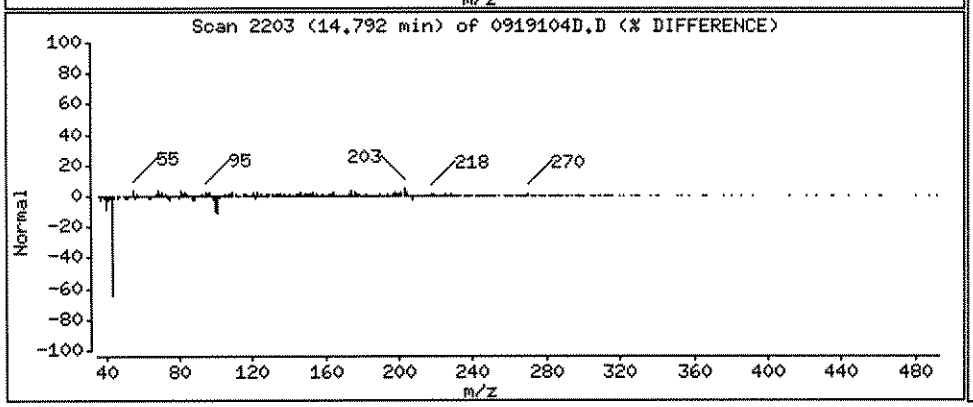
Column phase: fused silica Column diameter: 0.25

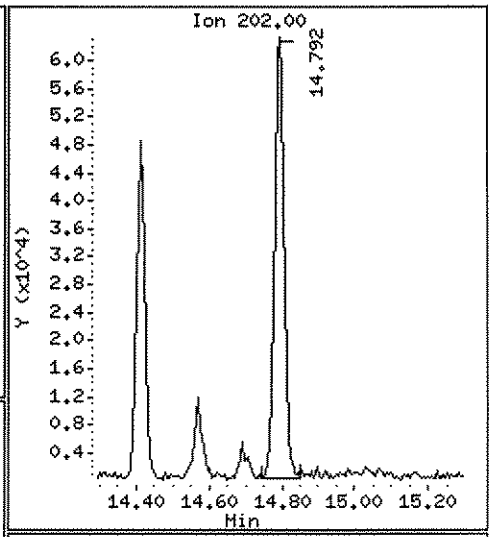
134 Pyrene Concentration: 9.167 ug/Kg

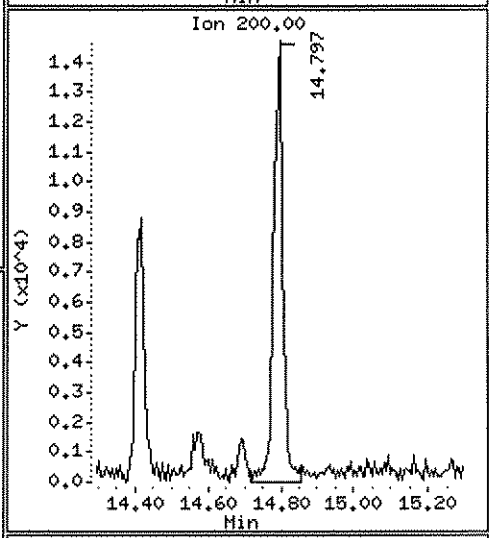


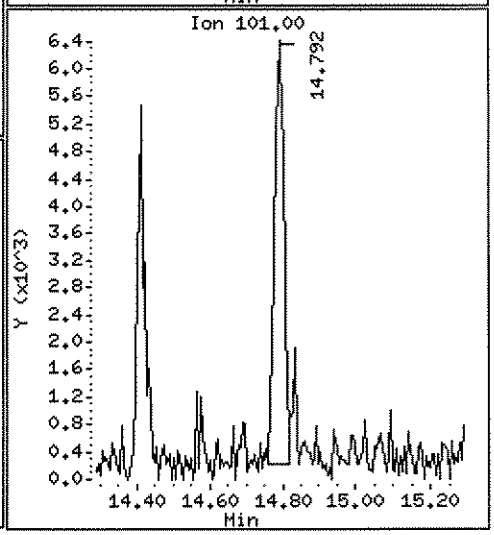






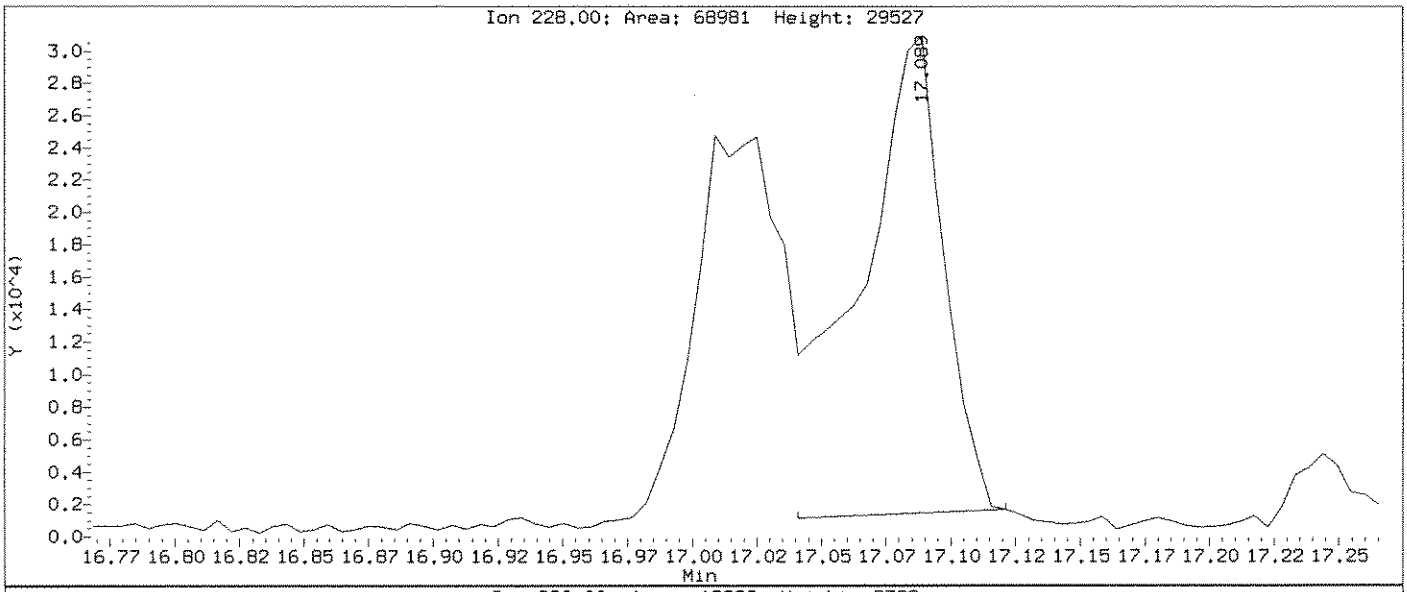


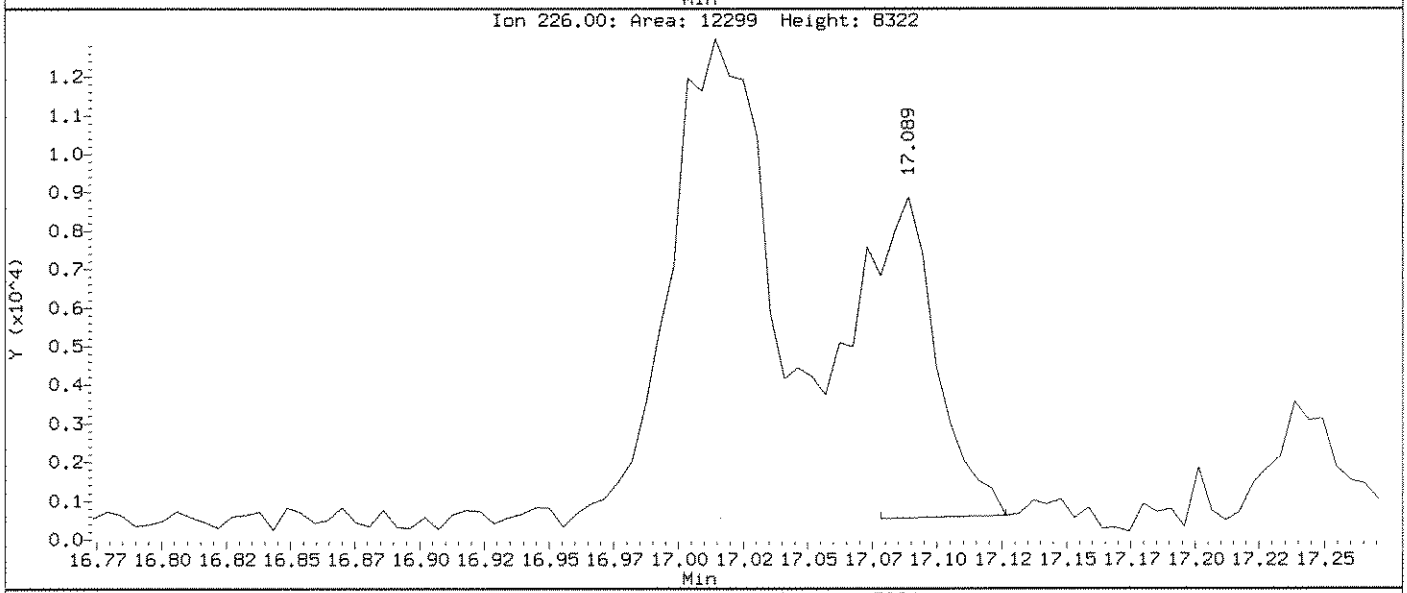


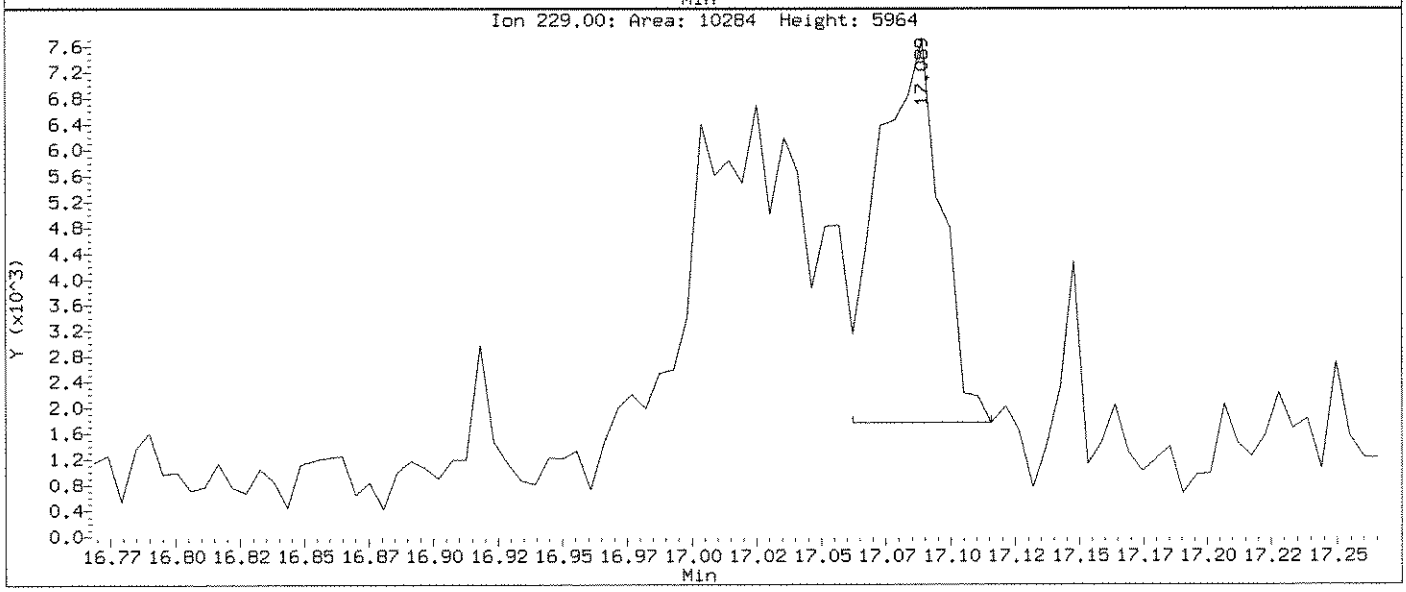


Data File: \\BC\TARGET\chem\bna3.i\101511b3.b\0919104D.D
Injection Date: 15-OCT-2011 20:10
Instrument: bna3.i
Client Sample ID: FLC-4-SS02-0006-092

Compound: Benzo(a)anthracene
CAS Number: 56-55-3







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Date : 15-OCT-2011 20:10

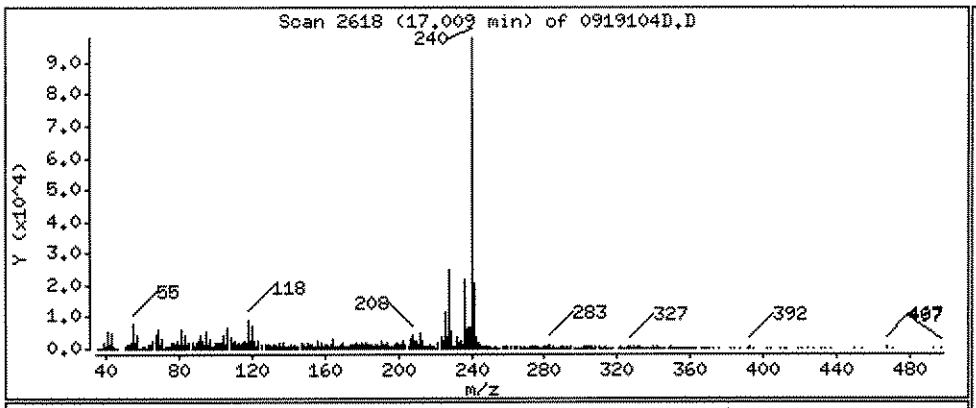
Client ID: FLC-4-SS02-0006-092 | Instrument: bna3.i

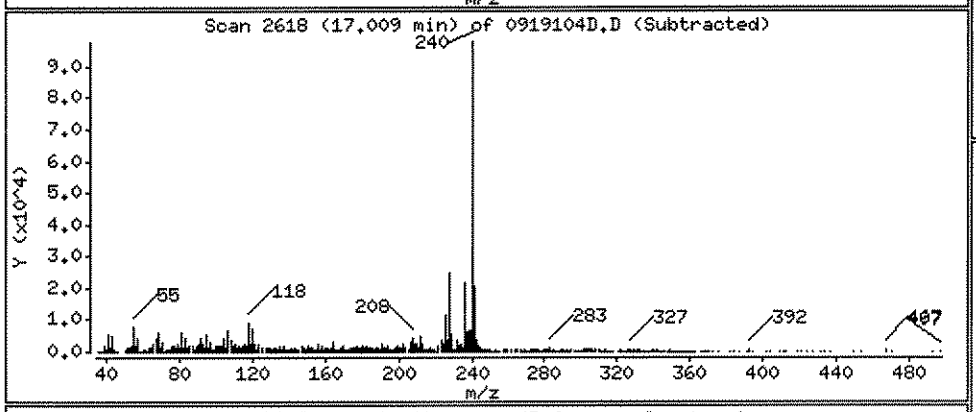
Sample Info: 1109191-04;;15;1000;UG/KG;;04-OCT-2011

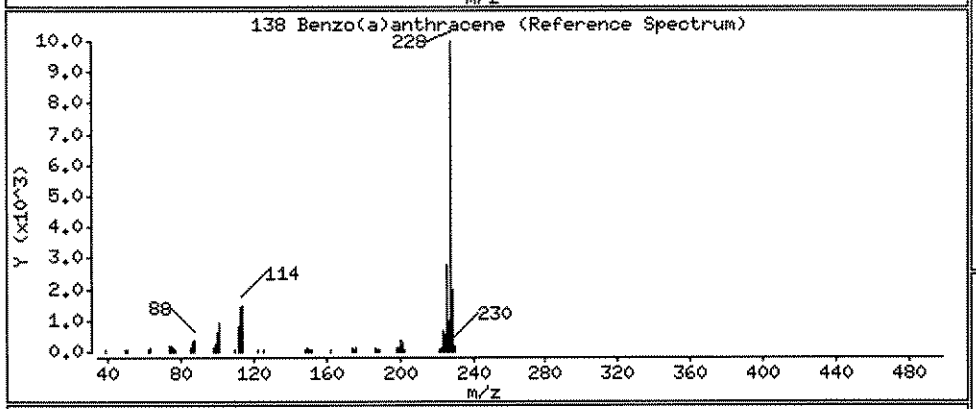
Volume Injected (uL): 0.5 | Operator: CLQ

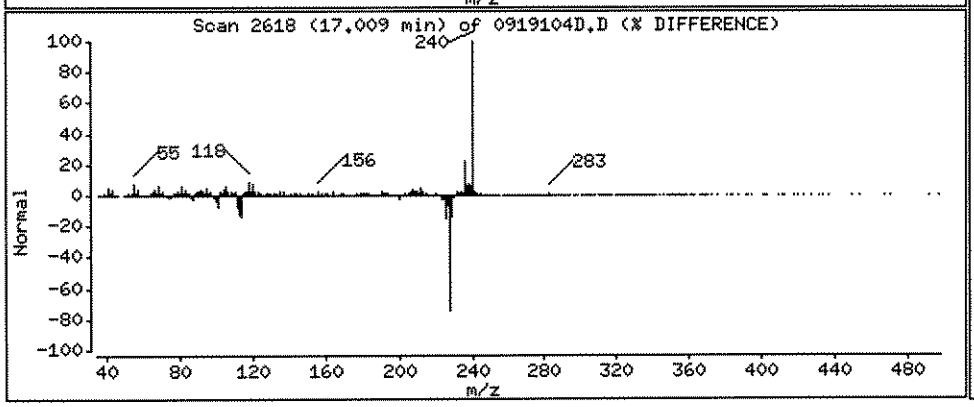
Column phase: fused silica | Column diameter: 0.25

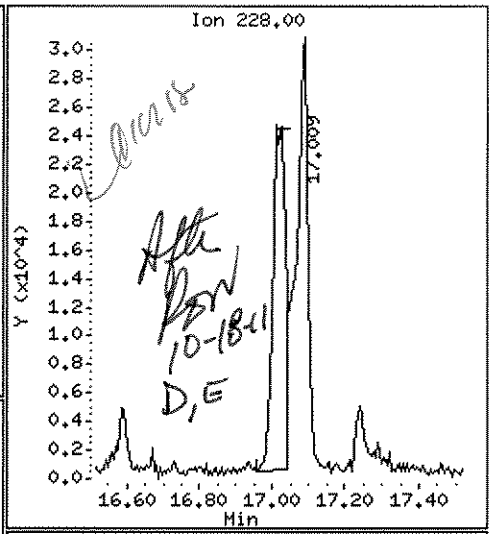
138 Benzo(a)anthracene | Concentration: 4.829 ug/Kg

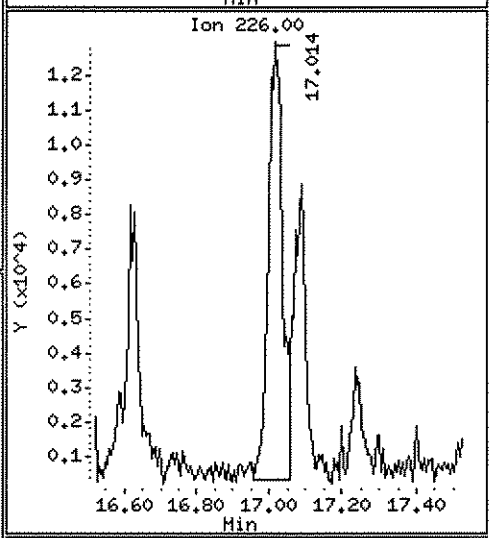


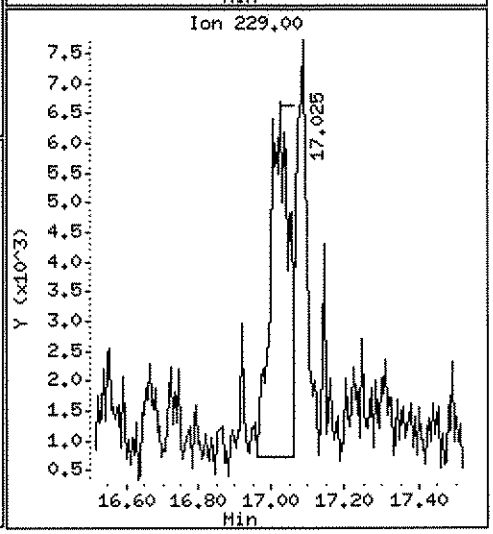












Data File: \\ELABNSH04\DD\chem\bna3.i\101511b3.b\0919104D.D

Date : 15-OCT-2011 20:10

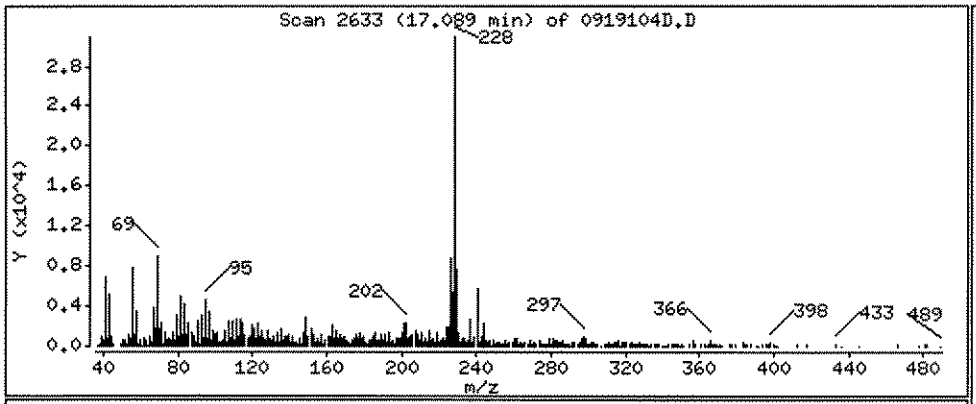
Client ID: FLC-4-SS02-0006-092 Instrument: bna3.i

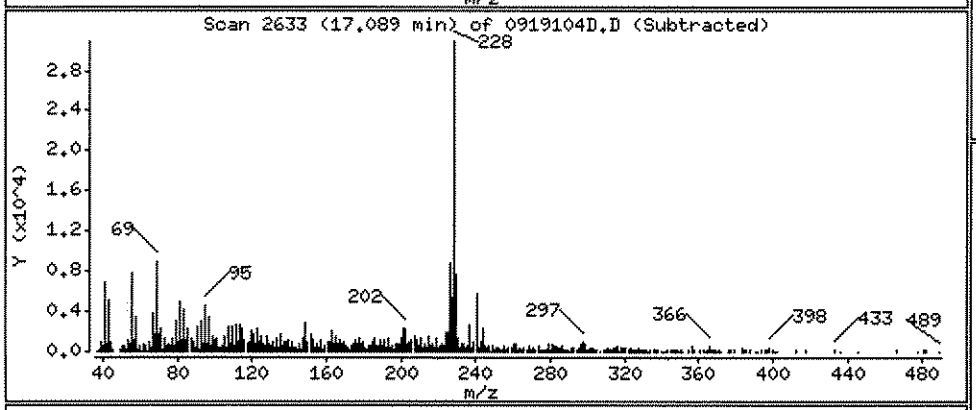
Sample Info: 1109191-04;;15;1000;UG/KG;;04-OCT-2011

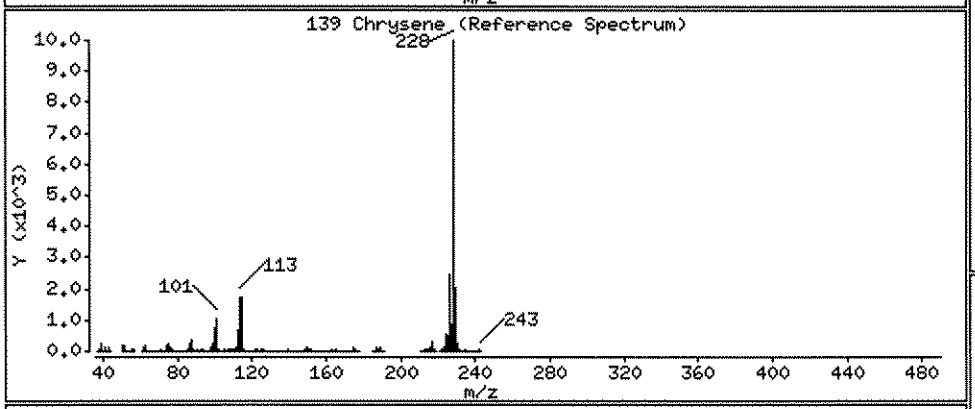
Volume Injected (uL): 0.5 Operator: GLQ

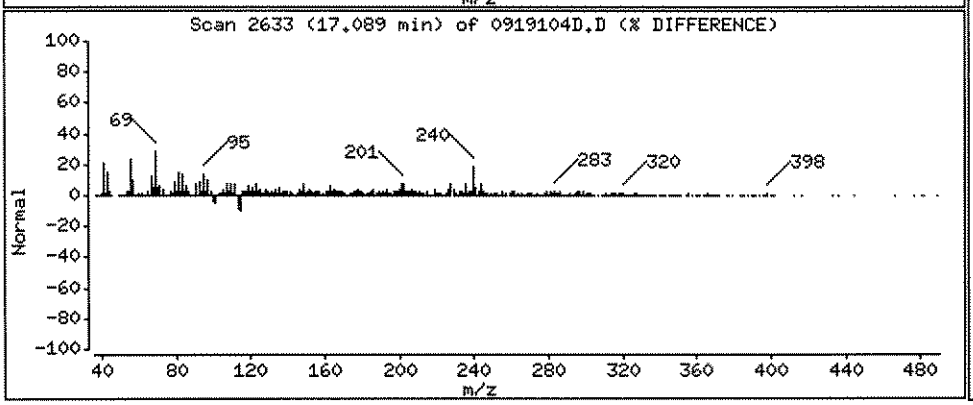
Column phase: fused silica Column diameter: 0.25

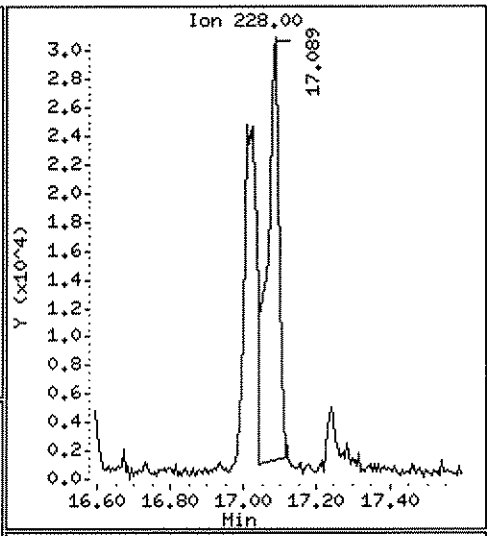
139 Chrysene Concentration: 6.123 ug/Kg

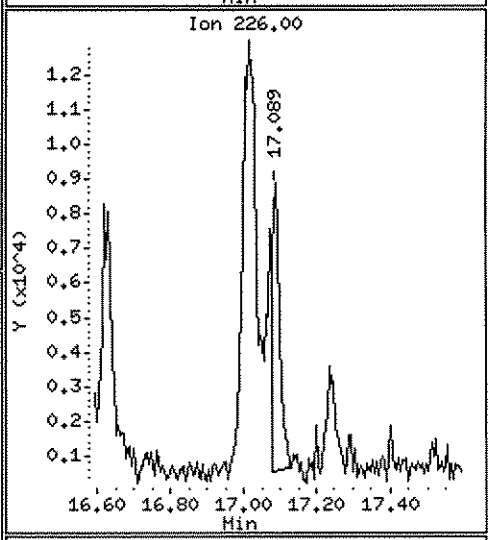


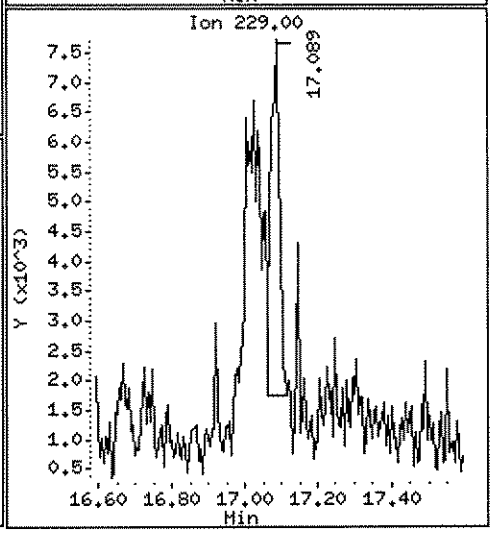












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Date : 15-OCT-2011 20:10

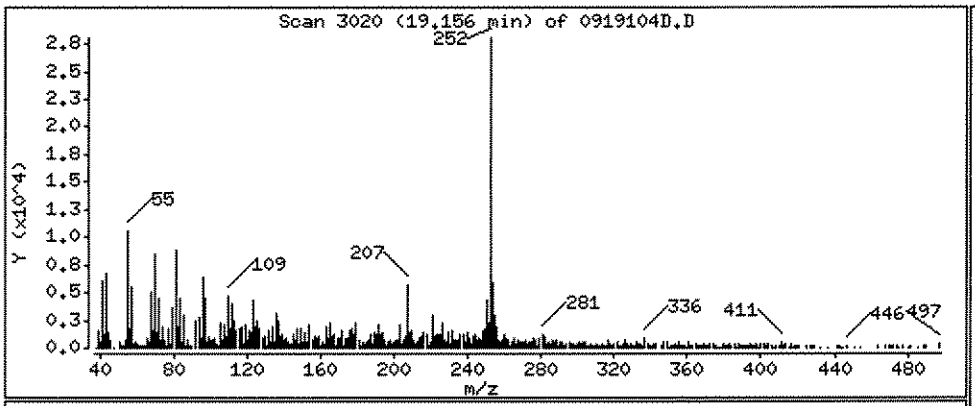
Client ID: FLC-4-SS02-0006-092 Instrument: bna3.i

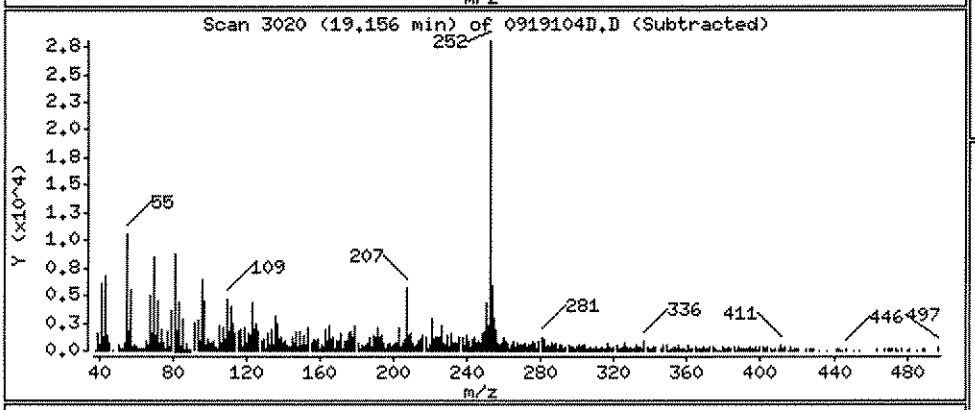
Sample Info: 1109191-04;;15;1000;UG/KG;;04-OCT-2011

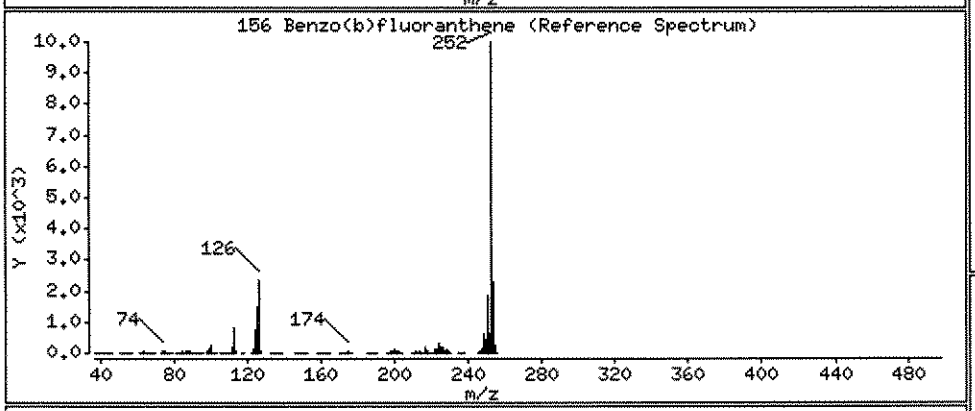
Volume Injected (uL): 0.5 Operator: GLQ

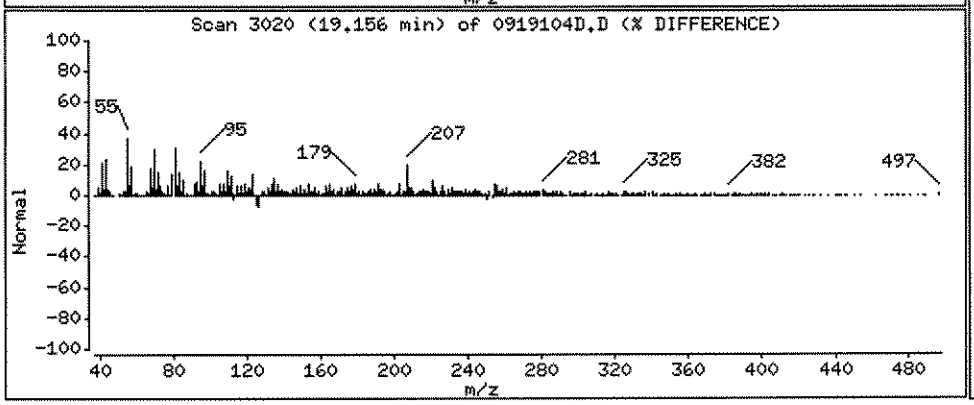
Column phase: fused silica Column diameter: 0.25

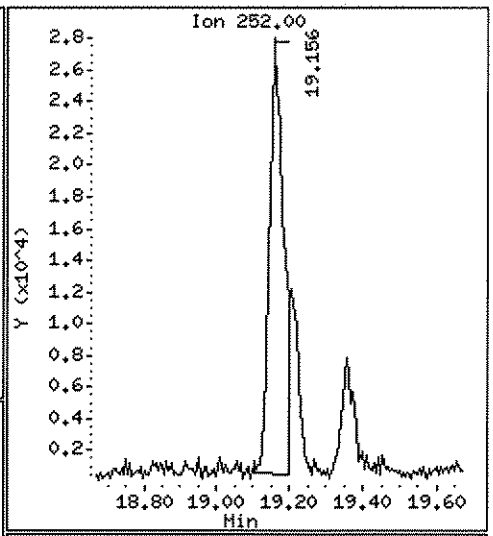
156 Benzo(b)fluoranthene Concentration: 9.970 ug/Kg

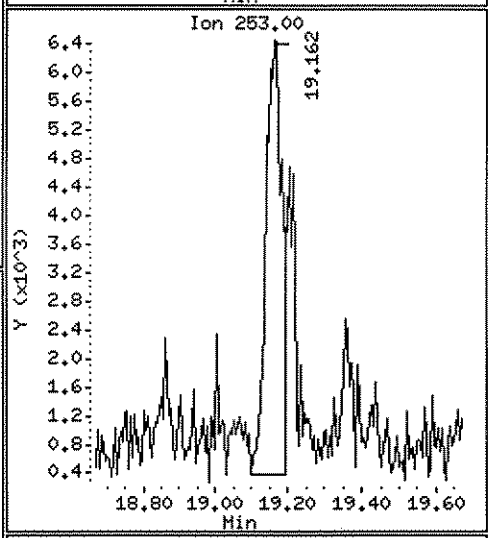


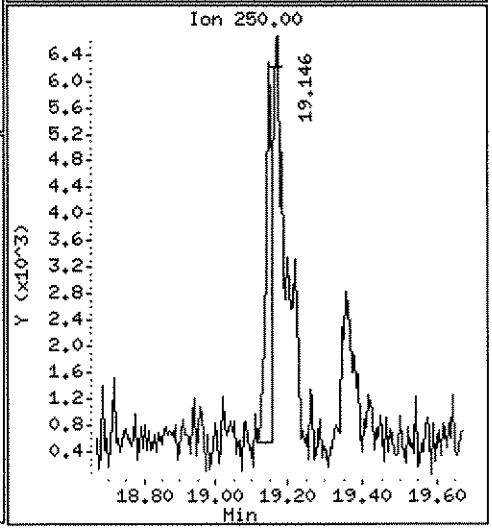






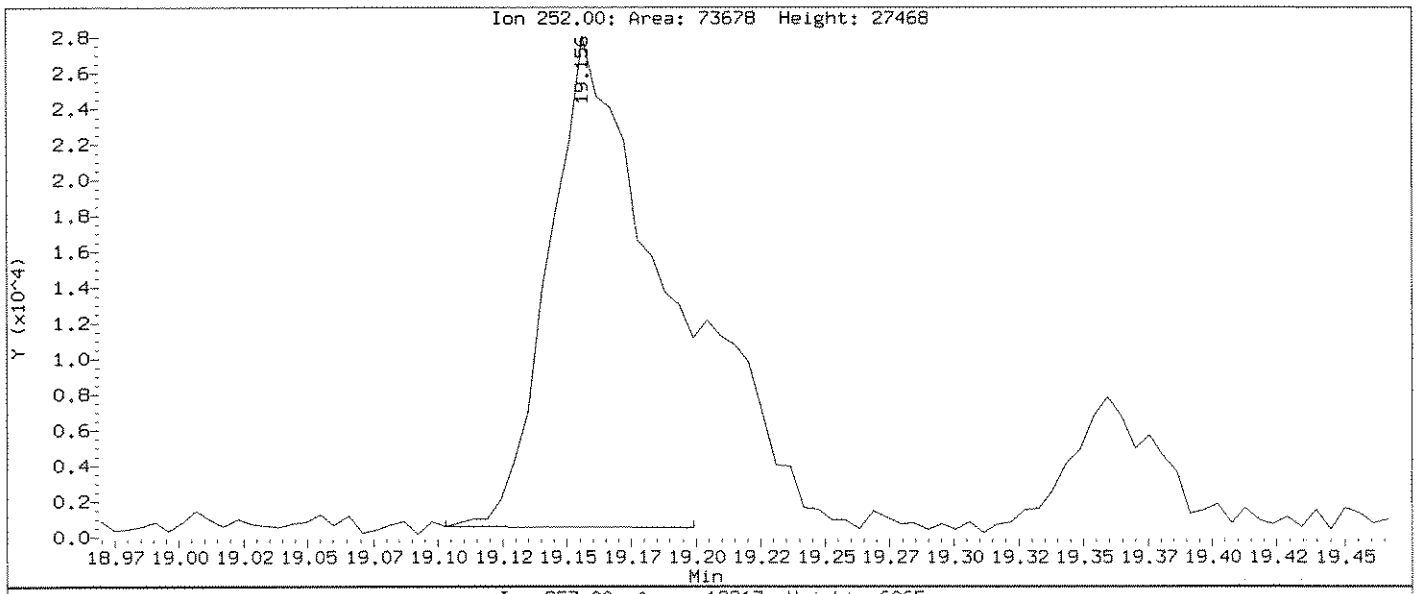


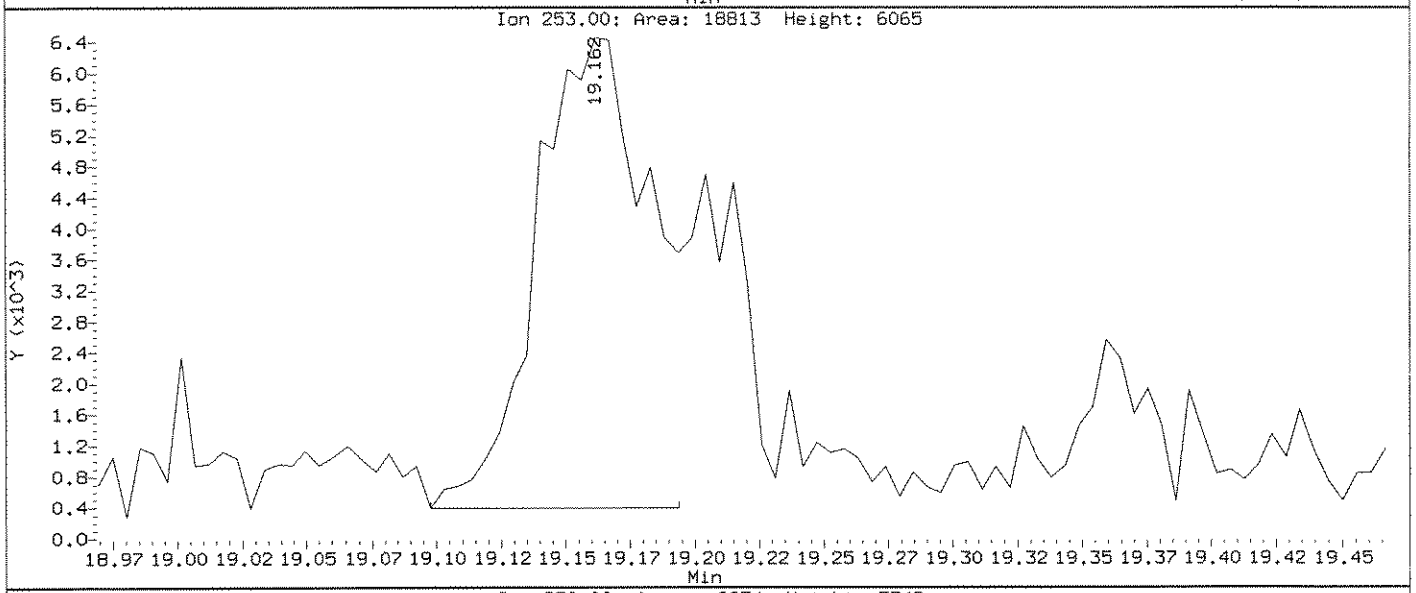


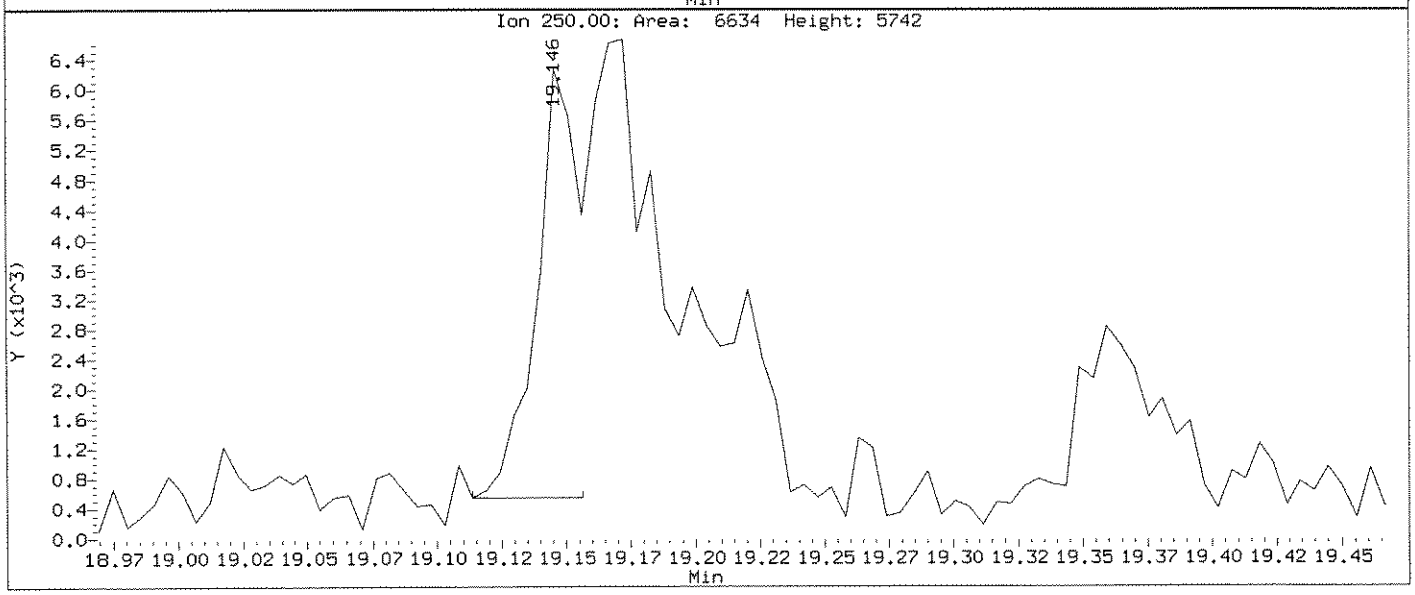


Data File: \\BC\TARGET\chem\bna3.i\101511b3.b\0919104D.D
Injection Date: 15-OCT-2011 20:10
Instrument: bna3.i
Client Sample ID: FLC-4-SS02-0006-092

Compound: Benzo(k)fluoranthene
CAS Number: 207-08-9







Data File: \\ELABNSH04\DD\chem\bna3.i\101511b3.b\0919104D.D

Date : 15-OCT-2011 20:10

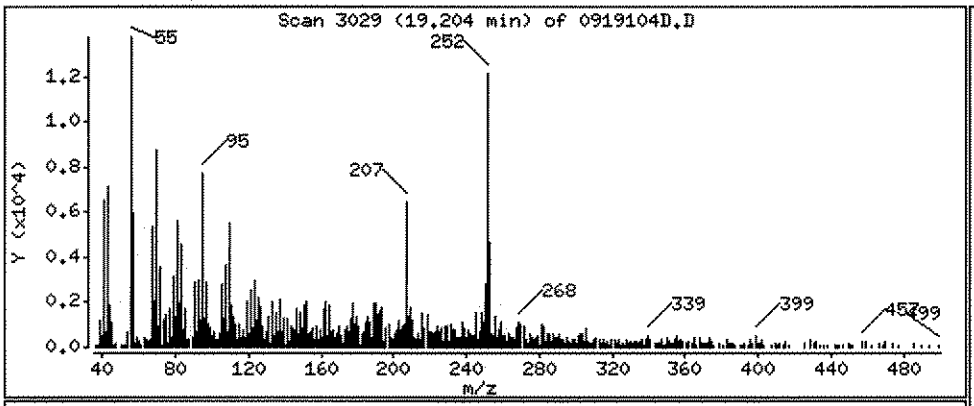
Client ID: FLC-4-SS02-0006-092 | Instrument: bna3.i

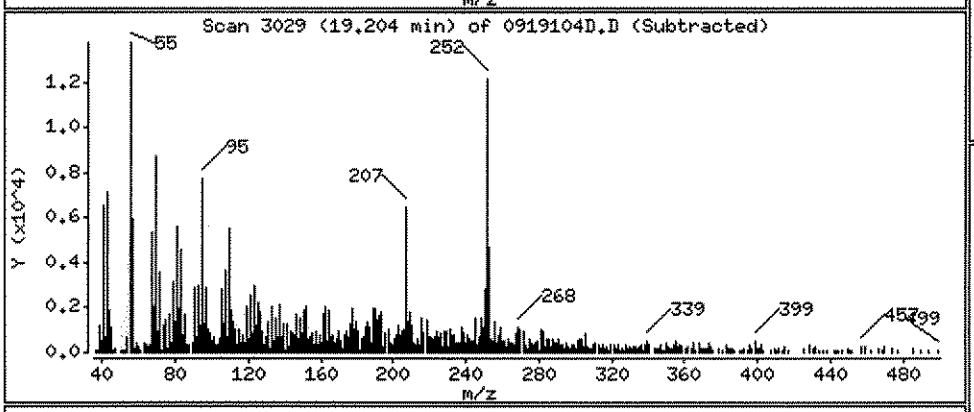
Sample Info: 1109191-04;;15;1000;UG/KG;;04-OCT-2011

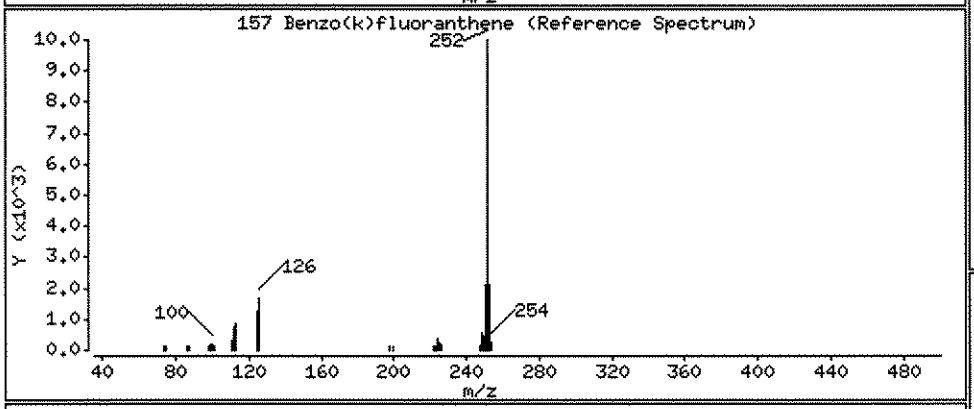
Volume Injected (uL): 0.5 | Operator: GLQ

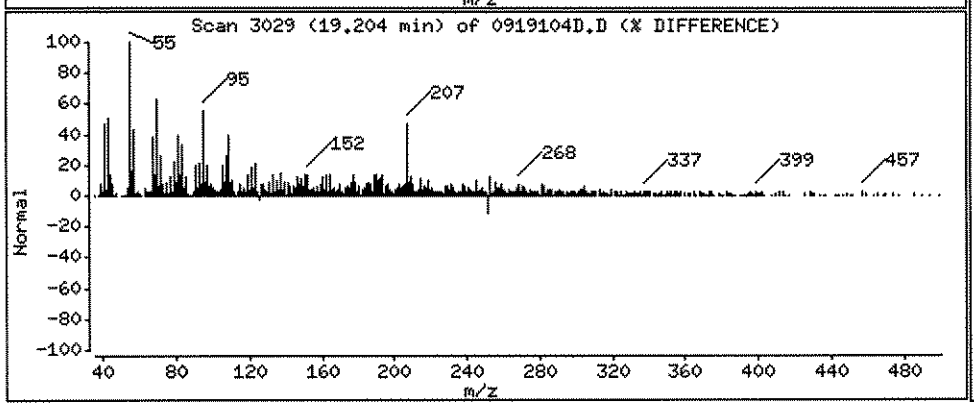
Column phase: fused silica | Column diameter: 0.25

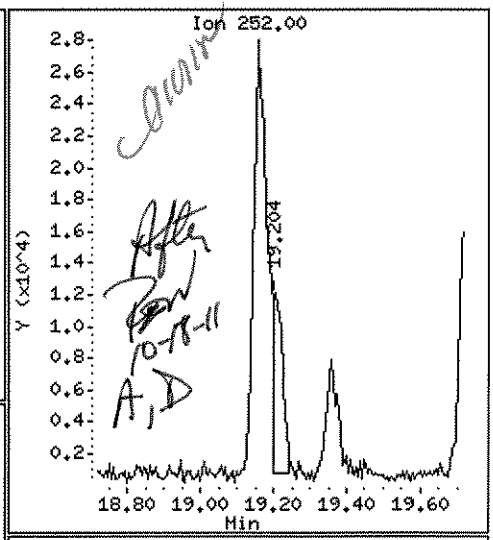
157 Benzo(k)fluoranthene | Concentration: 2.777 ug/Kg

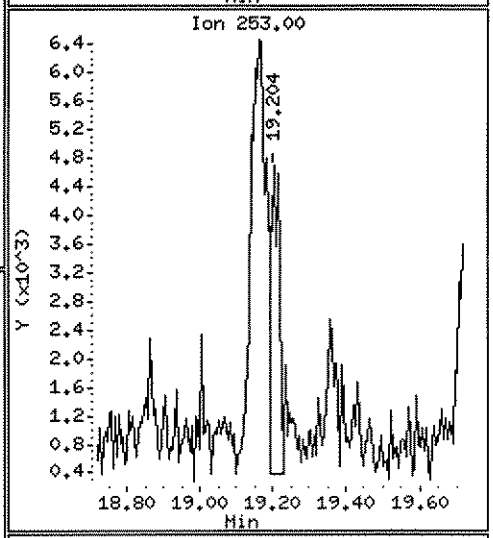


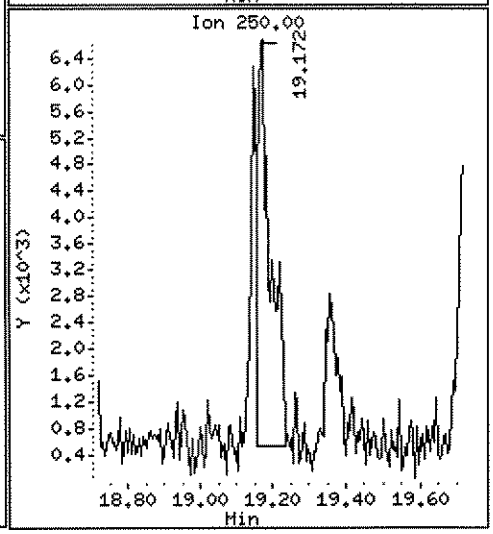












PREPARATION BENCH SHEET

1I26926

Empirical Laboratories, LLC **Printed: 10/6/2011 10:47:19AM**

Instrument:

Matrix: Water **Prepared using: EXT - EXT_3510** **Surrogate used: 11I0104**

Lab Number	Cont ID	Analysis	Prepared	Initial (mL)	Final (mL)	Spike ID	Source ID	ul Spike	ul Surrogate	PH	Extraction Comments
1109074-12RE1	K	SMS_BNA_8270C_3510_REG	09/27/2011	1070	1				500	NA	Re-extract added 9/27/2011 by DMG
1109173-24	K	SMS_BNA_8270C_3510_REG	09/27/2011	1060	1				500	NA	
1109191-10	J	SMS_BNA_8270C_3510_REG	09/27/2011	1070	1				500	NA	
1109191-10	J	SMS_BNA_8270C_LOW_3510	09/27/2011	1070	1				500	NA	HCBD_PCP_PAHs for waters!
1109192-12	K	SMS_BNA_8270C_3510_REG	09/27/2011	1080	1				500	NA	
1109192-12	K	SMS_BNA_8270C_LOW_3510	09/27/2011	1080	1				500	NA	HCBD_PCP_PAHs for waters!
1109194-01	L	SMS_BNA_8270C_3510_REG	09/27/2011	1070	1				500	NA	
1109194-02	M	SMS_BNA_8270C_3510_REG	09/27/2011	1080	1				500	NA	
1109194-03	K	SMS_BNA_8270C_3510_REG	09/27/2011	1070	1				500	NA	
1109194-04	K	SMS_BNA_8270C_3510_REG	09/27/2011	1080	1				500	NA	
1109198-01	G	SMS_BNA_8270C_3510_REG	09/27/2011	1060	1				500	NA	
1109198-02	F	SMS_BNA_8270C_3510_REG	09/27/2011	1070	1				500	NA	
1109198-03	F	SMS_BNA_8270C_3510_REG	09/27/2011	1020	1				500	NA	
1109198-04	G	SMS_BNA_8270C_3510_REG	09/27/2011	1070	1				500	NA	
1109201-02	Q	SMS_PAH_8270C_3510_LOW	09/27/2011	1060	1				500	NA	MS/MSD.
1109201-02	Q	SMS_BNA_8270C_LOW_3510	09/27/2011	1060	1				500	NA	Added for BatchQC in: 1I26926
1109201-02RE1	Q	SMS_BNA_8270C_3510_REG	09/27/2011	1060	1				500	NA	Added for BatchQC in: 1I26926
1109201-02RE1	Q	SMS_PAH_8270C_3510_LOW	09/27/2011	1060	1				500	NA	Added for BatchQC in: 1I26926
1109201-03	E	SMS_PAH_8270C_3510_LOW	09/27/2011	1060	1				500	NA	only use version if Benzo A pyrene only.
1I26926-BLK1		QC	09/27/2011	1000	1				500	NA	
1I26926-BLK2		QC	09/27/2011	1000	1				500	NA	
1I26926-BS1		QC	09/27/2011	1000	1	11I0554		500	500	NA	

Spiking Witnessed By Date

Preparation Reviewed By Date

Extracts Received By Date

807

1109191

PREPARATION BENCH SHEET

1I26926

Empirical Laboratories, LLC **Printed: 10/6/2011 10:47:19AM**

Instrument:

808

Matrix: Water **Prepared using: EXT - EXT_3510** **Surrogate used: 11I0104**

Lab Number	Cont ID	Analysis	Prepared	Initial (mL)	Final (mL)	Spike ID	Source ID	ul Spike	ul Surrogate	PH	Extraction Comments
1I26926-BS2		QC	09/27/2011	1000	1	11I0558		1000	500	NA	LL
1I26926-MRL1		QC	09/27/2011	1000	1	11I0554		20	500	NA	
1I26926-MRL2		QC	09/27/2011	1000	1	11I0554		50	500	NA	
1I26926-MRL3		QC	09/27/2011	1000	1	11I0554		100	500	NA	
1I26926-MS1		QC	09/27/2011	1070	1	11I0554	1109201-02	500	500	NA	reg
1I26926-MSD1		QC	09/27/2011	1060	1	11I0554	1109201-02	500	500	NA	reg

Reagents Used:

Standard	Description
11H0173	Sodium Sulfate Anhydrous
11I0388	1:1 H2SO4/DIH2O
11I0389	10N NaOH for Extractions
11I0738	Methylene Chloride

1109191

Spiking Witnessed By Date

Preparation Reviewed By Date

Extracts Received By Date

PREPARATION BENCH SHEET

1J03009

Empirical Laboratories, LLC **Printed: 10/29/2011 8:20:45AM**

Instrument:

Matrix: Solid **Prepared using: EXT - EXT_3546** **Surrogate used: 11I0876**

Lab Number	Cont ID	Analysis	Prepared	Initial (g)	Final (mL)	Spike ID	Source ID	ul Spike	ul Surrogate	PH	Extraction Comments
1109191-01	D	SMS_PAH_8270C_3546_LOW	10/04/2011	15	1				500	NA	
1109191-01	D	SMS_BNA_8270C_3546_REG	10/04/2011	15	1				500	NA	potential high conc - special prep
1109191-02	N	SMS_BNA_8270C_3546_REG	10/04/2011	15.2	1				500	NA	potential high conc - special prep,MS/MSD
1109191-02	N	SMS_PAH_8270C_3546_LOW	10/04/2011	15.2	1				500	NA	MS/MSD
1109191-03	E	SMS_BNA_8270C_3546_REG	10/04/2011	15	1				500	NA	potential high conc - special prep
1109191-03	E	SMS_PAH_8270C_3546_LOW	10/04/2011	15	1				500	NA	
1109191-04	D	SMS_BNA_8270C_3546_REG	10/04/2011	15.1	1				500	NA	potential high conc - special prep
1109191-04	D	SMS_PAH_8270C_3546_LOW	10/04/2011	15.1	1				500	NA	
1109191-05	E	SMS_BNA_8270C_3546_REG	10/04/2011	15.6	1				500	NA	potential high conc - special prep
1109191-05	E	SMS_PAH_8270C_3546_LOW	10/04/2011	15.6	1				500	NA	
1109191-06	E	SMS_PAH_8270C_3546_LOW	10/04/2011	15.7	1				500	NA	
1109191-06	E	SMS_BNA_8270C_3546_REG	10/04/2011	15.7	1				500	NA	potential high conc - special prep
1109192-01	E	SMS_BNA_8270C_3546_REG	10/04/2011	15.1	1				500	NA	potential high conc - special prep
1109192-01	E	SMS_PAH_8270C_3546_LOW	10/04/2011	15.1	1				500	NA	
1109192-02	E	SMS_BNA_8270C_3546_REG	10/04/2011	15.3	1				500	NA	potential high conc - special prep
1109192-02	E	SMS_PAH_8270C_3546_LOW	10/04/2011	15.3	1				500	NA	
1109192-03	D	SMS_BNA_8270C_3546_REG	10/04/2011	15	1				500	NA	potential high conc - special prep
1109192-03	D	SMS_PAH_8270C_3546_LOW	10/04/2011	15	1				500	NA	
1109192-04	E	SMS_BNA_8270C_3546_REG	10/04/2011	15	1				500	NA	potential high conc - special prep
1109192-04	E	SMS_PAH_8270C_3546_LOW	10/04/2011	15	1				500	NA	
1109192-05	E	SMS_BNA_8270C_3546_REG	10/04/2011	15	1				500	NA	potential high conc - special prep
1109192-05	E	SMS_PAH_8270C_3546_LOW	10/04/2011	15	1				500	NA	

Spiking Witnessed By Date

Preparation Reviewed By Date

Extracts Received By Date

809

1109191

PREPARATION BENCH SHEET

1J03009

Empirical Laboratories, LLC **Printed: 10/29/2011 8:20:45AM**

Instrument:

Matrix: Solid **Prepared using: EXT - EXT_3546** **Surrogate used: 11I0876**

Lab Number	Cont ID	Analysis	Prepared	Initial (g)	Final (mL)	Spike ID	Source ID	ul Spike	ul Surrogate	PH	Extraction Comments
1109192-06	E	SMS_BNA_8270C_3546_REG	10/04/2011	15	1				500	NA	potential high conc - special prep
1109192-06	E	SMS_PAH_8270C_3546_LOW	10/04/2011	15	1				500	NA	
1109192-07	D	SMS_PAH_8270C_3546_LOW	10/04/2011	15	1				500	NA	
1109192-07	D	SMS_BNA_8270C_3546_REG	10/04/2011	15	1				500	NA	potential high conc - special prep
1109192-08	E	SMS_BNA_8270C_3546_REG	10/04/2011	15	1				500	NA	potential high conc - special prep
1109192-08	E	SMS_PAH_8270C_3546_LOW	10/04/2011	15	1				500	NA	
1109192-09	D	SMS_BNA_8270C_3546_REG	10/04/2011	15.4	1				500	NA	potential high conc - special prep
1109192-09	D	SMS_PAH_8270C_3546_LOW	10/04/2011	15.4	1				500	NA	
1109192-10	E	SMS_BNA_8270C_3546_REG	10/04/2011	15.5	1				500	NA	potential high conc - special prep
1109192-10	E	SMS_PAH_8270C_3546_LOW	10/04/2011	15.5	1				500	NA	
1109192-11	D	SMS_BNA_8270C_3546_REG	10/04/2011	15.4	1				500	NA	potential high conc - special prep
1109192-11	D	SMS_PAH_8270C_3546_LOW	10/04/2011	15.4	1				500	NA	
1109192-13	E	SMS_BNA_8270C_3546_REG	10/04/2011	15.1	1				500	NA	potential high conc - special prep
1109192-13	E	SMS_PAH_8270C_3546_LOW	10/04/2011	15.1	1				500	NA	
1109192-14	E	SMS_BNA_8270C_3546_REG	10/04/2011	15.7	1				500	NA	potential high conc - special prep
1109192-14	E	SMS_PAH_8270C_3546_LOW	10/04/2011	15.7	1				500	NA	
1109192-15	E	SMS_PAH_8270C_3546_LOW	10/04/2011	15.3	1				500	NA	
1109192-15	E	SMS_BNA_8270C_3546_REG	10/04/2011	15.3	1				500	NA	potential high conc - special prep
1J03009-BLK1		QC	10/04/2011	15	1				500	NA	
1J03009-BLK2		QC	10/04/2011	15	1				500	NA	
1J03009-BLK3		QC	10/04/2011	15	1				500	NA	Added 10/17/2011 by RDW
1J03009-BS1		QC	10/04/2011	15	1	11J0026		500	500	NA	reg

Spiking Witnessed By Date

Preparation Reviewed By Date

Extracts Received By Date

810

1109191

PREPARATION BENCH SHEET

1J03009

Empirical Laboratories, LLC

Printed: 10/29/2011 8:20:45AM

Instrument:

Matrix: Solid **Prepared using: EXT - EXT_3546** **Surrogate used: 11I0876**

Lab Number	Cont ID	Analysis	Prepared	Initial (g)	Final (mL)	Spike ID	Source ID	ul Spike	ul Surrogate	PH	Extraction Comments
1J03009-BS2		QC	10/04/2011	15	1	11J0025		1000	500	NA	ll
1J03009-BS3		QC	10/04/2011	15	1	11J0026		500	500	NA	Added 10/17/2011 by RDW
1J03009-MS1		QC	10/04/2011	15.3	1	11J0026	1109191-02	500	500	NA	reg
1J03009-MS2		QC	10/04/2011	15.3	1	11J0026	1109191-02	500	500	NA	Added 10/26/2011 by MEC
1J03009-MSD1		QC	10/04/2011	15.3	1	11J0026	1109191-02	500	500	NA	reg
1J03009-MSD2		QC	10/04/2011	15.3	1	11J0026	1109191-02	500	500	NA	Added 10/26/2011 by MEC

Reagents Used:

Standard	Description
11I0738	Methylene Chloride
11I0761	Sodium Sulfate Anhydrous

Spiking Witnessed By Date

Preparation Reviewed By Date

Extracts Received By Date

811

1109191

Data for SW8270C Forms

ANALYSIS DATA SHEET

FLC-4-RB01-092211

Laboratory:	Empirical Laboratories, LLC			SDG:	1109191
Client:	Tetra Tech NUS, Inc. (T010)			Project:	Navy Fuel Depot CTO JM46
Matrix:	Water	Laboratory ID:	1109191-10	File ID:	0919110.D
Sampled:	09/22/11 11:15	Prepared:	09/27/11 12:00	Analyzed:	10/18/11 20:30
Solids:		Preparation:	EXT_3510	Dilution:	1

Batch: 1I26926 Sequence: 1J29206 Calibration: 1238006 Instrument: MS-BNA4

CAS NO.	COMPOUND	CONC. (ug/L)	DL	LOD	LOQ	Q
83-32-9	Acenaphthene		0.0467	0.0935	0.187	U
208-96-8	Acenaphthylene		0.0467	0.0935	0.187	U
120-12-7	Anthracene		0.0467	0.0935	0.187	U
56-55-3	Benzo(a)anthracene		0.0467	0.0935	0.187	U
50-32-8	Benzo(a)pyrene		0.0467	0.0935	0.187	U
205-99-2	Benzo(b)fluoranthene		0.0467	0.0935	0.187	U
191-24-2	Benzo(g,h,i)perylene		0.0467	0.0935	0.187	U
207-08-9	Benzo(k)fluoranthene		0.0467	0.0935	0.187	U
218-01-9	Chrysene		0.0467	0.0935	0.187	U
53-70-3	Dibenz(a,h)anthracene		0.0467	0.0935	0.187	U
206-44-0	Fluoranthene		0.0467	0.0935	0.187	U
86-73-7	Fluorene		0.0467	0.0935	0.187	U
87-68-3	Hexachlorobutadiene		0.234	0.467	0.935	U
193-39-5	Indeno(1,2,3-cd)pyrene		0.0467	0.0935	0.187	U
90-12-0	1-Methylnaphthalene		0.0467	0.0935	0.187	U
91-57-6	2-Methylnaphthalene		0.0467	0.0935	0.187	U
91-20-3	Naphthalene	0.0595	0.0467	0.0935	0.187	I
87-86-5	Pentachlorophenol		0.935	1.87	3.74	Q, Y, U
85-01-8	Phenanthrene		0.0467	0.0935	0.187	U
129-00-0	Pyrene		0.0467	0.0935	0.187	U

SYSTEM MONITORING COMPOUND	ADDED (ug/L)	CONC (ug/L)	% REC	QC LIMITS	Q
2-Fluorobiphenyl	46.73	21.45	45.9	34 - 167	
Terphenyl-d14	46.73	42.33	90.6	34 - 167	
2,4,6-Tribromophenol	93.46	59.88	64.1	34 - 167	Y

SURROGATE STANDARD RECOVERY AND RT SUMMARY

SW8270C

Laboratory:	Empirical Laboratories, LLC	SDG:	1109191
Client:	Tetra Tech NUS, Inc. (T010)	Project:	Navy Fuel Depot CTO JM46
Sequence:	1J29206	Instrument:	MS-BNA4
		Calibration:	1238006

Surrogate Compound	Spike Level	% Recovery	Recovery Limits	RT	CCV RT	RT Diff	RT Diff Limit	Q
Calibration Check (1J29206-CCV1) ug/mL				Lab File ID: SEQ-CCV1.D		Analyzed: 10/18/11 14:04		
2-Fluorobiphenyl	5.000	97.2	80 - 120	7.882	7.882	0.0000	+/-0.500	
Terphenyl-d14	5.000	104	80 - 120	12.762	12.762	0.0000	+/-0.500	
2,4,6-Tribromophenol	10.00	47.1	80 - 120	9.676	9.676	0.0000	+/-0.500	*
LCS (1I26926-BS2) ug/L				Lab File ID: I26926L1.D		Analyzed: 10/18/11 19:31		
2-Fluorobiphenyl	50.00	60.9	34 - 167	7.881	7.882	-0.0010	+/-0.500	
Terphenyl-d14	50.00	96.4	34 - 167	12.771	12.762	0.0090	+/-0.500	
2,4,6-Tribromophenol	100.0	72.1	34 - 167	9.685	9.676	0.0090	+/-0.500	
Blank (1I26926-BLK2) ug/L				Lab File ID: I26926B1.D		Analyzed: 10/18/11 20:00		
2-Fluorobiphenyl	50.00	57.6	34 - 167	7.881	7.882	-0.0010	+/-0.500	
Terphenyl-d14	50.00	99.4	34 - 167	12.771	12.762	0.0090	+/-0.500	
2,4,6-Tribromophenol	100.0	68.5	34 - 167	9.685	9.676	0.0090	+/-0.500	
FLC-4-RB01-092211 (1109191-10) ug/L				Lab File ID: 0919110.D		Analyzed: 10/18/11 20:30		
2-Fluorobiphenyl	46.73	45.9	34 - 167	7.881	7.882	-0.0010	+/-0.500	
Terphenyl-d14	46.73	90.6	34 - 167	12.771	12.762	0.0090	+/-0.500	
2,4,6-Tribromophenol	93.46	64.1	34 - 167	9.685	9.676	0.0090	+/-0.500	

LCS / LCS DUPLICATE RECOVERY

SW8270C

Laboratory:	Empirical Laboratories, LLC	SDG:	1109191
Client:	Tetra Tech NUS, Inc. (T010)	Project:	Navy Fuel Depot CTO JM46
Matrix:	Water		
Batch:	1I26926	Laboratory ID:	1I26926-BS2
Preparation:	EXT_3510	Initial/Final:	1000 mL / 1 mL

ANALYTE	SPIKE ADDED (ug/L)	LCS CONCENTRATION (ug/L)	LCS % REC.	QC LIMITS REC.
Acenaphthene	1.000	0.8263	82.6	41 - 132
Acenaphthylene	1.000	0.7760	77.6	43 - 140
Anthracene	1.000	0.8460	84.6	50 - 139
Benzo(a)anthracene	1.000	0.9480	94.8	58 - 141
Benzo(a)pyrene	1.000	0.7579	75.8	31 - 142
Benzo(b)fluoranthene	1.000	0.8489	84.9	42 - 156
Benzo(g,h,i)perylene	1.000	1.154	115	12 - 171
Benzo(k)fluoranthene	1.000	0.8878	88.8	49 - 165
Chrysene	1.000	0.9544	95.4	51 - 155
Dibenz(a,h)anthracene	1.000	0.9110	91.1	28 - 153
Fluoranthene	1.000	0.9086	90.9	47 - 158
Fluorene	1.000	0.9201	92.0	40 - 140
Hexachlorobutadiene	1.000	0.8444	84.4	25 - 105
Indeno(1,2,3-cd)pyrene	1.000	1.042	104	20 - 167
1-Methylnaphthalene	1.000	0.8699	87.0	35 - 131
2-Methylnaphthalene	1.000	0.8554	85.5	36 - 121
Naphthalene	1.000	0.8037	80.4	39 - 125
Pentachlorophenol	**1.000**	**1.528**	**153**	**40 - 115**
Phenanthrene	1.000	0.9686	96.9	46 - 144
Pyrene	1.000	0.9056	90.6	39 - 158

PREPARATION BATCH SUMMARY

SW8270C

Laboratory: Empirical Laboratories, LLC SDG: 1109191

Client: Tetra Tech NUS, Inc. (T010) Project: Navy Fuel Depot CTO JM46

Batch: 1I26926 Batch Matrix: Water Preparation: EXT_3510

SAMPLE NAME	LAB SAMPLE ID	DATE PREPARED	INITIAL VOL./WEIGHT	FINAL VOL.
FLC-4-RB01-092211	1109191-10	09/27/11 12:00	1,070.00	1.00
Blank	1I26926-BLK2	09/27/11 12:00	1,000.00	1.00
LCS	1I26926-BS2	09/27/11 12:00	1,000.00	1.00

MASS SPECTROMETER INSTRUMENT PERFORMANCE CHECK

SW8270C

Laboratory:	Empirical Laboratories, LLC	SDG:	1109191
Client:	Tetra Tech NUS, Inc. (T010)	Project:	Navy Fuel Depot CTO JM46
Lab File ID:	SEQ-TUN1.D	Injection Date:	08/24/11
Instrument ID:	MS-BNA4	Injection Time:	14:16
Sequence:	1H23712	Lab Sample ID:	1H23712-TUN1

m/z	ION ABUNDANCE CRITERIA	% RELATIVE ABUNDANCE	
51	30 - 60% of 198	46.6	PASS
68	Less than 2% of 69	1.46	PASS
69	Less than 200% of 198	49.8	PASS
70	Less than 2% of 69	0.379	PASS
127	40 - 60% of 198	57.3	PASS
197	Less than 1% of 198	0	PASS
198	Base peak, 100% relative abundance	100	PASS
199	5 - 9% of 198	6.71	PASS
275	10 - 30% of 198	25	PASS
365	1 - 200% of 198	3.37	PASS
441	0.001 - 100% of 443	79.7	PASS
442	40 - 200% of 198	97.7	PASS
443	17 - 23% of 442	19.5	PASS

MASS SPECTROMETER INSTRUMENT PERFORMANCE CHECK

SW8270C

Laboratory:	Empirical Laboratories, LLC	SDG:	1109191
Client:	Tetra Tech NUS, Inc. (T010)	Project:	Navy Fuel Depot CTO JM46
Lab File ID:	SEQ-TUN1.D	Injection Date:	10/18/11
Instrument ID:	MS-BNA4	Injection Time:	13:46
Sequence:	1J29206	Lab Sample ID:	1J29206-TUN1

m/z	ION ABUNDANCE CRITERIA	% RELATIVE ABUNDANCE	
51	30 - 60% of 198	51.4	PASS
68	Less than 2% of 69	1.63	PASS
69	Less than 200% of 198	57.7	PASS
70	Less than 2% of 69	0.515	PASS
127	40 - 60% of 198	59.1	PASS
197	Less than 1% of 198	0	PASS
198	Base peak, 100% relative abundance	100	PASS
199	5 - 9% of 198	6.98	PASS
275	10 - 30% of 198	19.9	PASS
365	1 - 200% of 198	1.71	PASS
441	0.001 - 100% of 443	79.1	PASS
442	40 - 200% of 198	50.1	PASS
443	17 - 23% of 442	20.2	PASS

ANALYSIS SEQUENCE SUMMARY

SW8270C

Laboratory:	Empirical Laboratories, LLC	SDG:	1109191
Client:	Tetra Tech NUS, Inc. (T010)	Project:	Navy Fuel Depot CTO JM46
Sequence:	1H23712	Instrument:	MS-BNA4
Calibration:	1238006		

Sample Name	Lab Sample ID	Lab File ID	Analysis Date/Time
MS Tune	1H23712-TUN1	SEQ-TUN1.D	08/24/11 14:16
Cal Standard	1H23712-CAL1	SEQ-CAL1.D	08/24/11 14:35
Cal Standard	1H23712-CAL2	SEQ-CAL2.D	08/24/11 15:05
Cal Standard	1H23712-CAL3	SEQ-CAL3.D	08/24/11 15:35
Cal Standard	1H23712-CAL4	SEQ-CAL4.D	08/24/11 16:05
Cal Standard	1H23712-CAL5	SEQ-CAL5.D	08/24/11 16:35
Cal Standard	1H23712-CAL6	SEQ-CAL6.D	08/24/11 17:05
Cal Standard	1H23712-CAL7	SEQ-CAL7.D	08/24/11 17:34
Cal Standard	1H23712-CAL9	SEQ-CAL9.D	08/24/11 18:33
Initial Cal Check	1H23712-ICV1	SEQ-ICV1.D	08/24/11 19:02

ANALYSIS SEQUENCE SUMMARY

SW8270C

Laboratory:	Empirical Laboratories, LLC	SDG:	1109191
Client:	Tetra Tech NUS, Inc. (T010)	Project:	Navy Fuel Depot CTO JM46
Sequence:	1J29206	Instrument:	MS-BNA4
Calibration:	1238006		

Sample Name	Lab Sample ID	Lab File ID	Analysis Date/Time
MS Tune	1J29206-TUN1	SEQ-TUN1.D	10/18/11 13:46
Calibration Check	1J29206-CCV1	SEQ-CCV1.D	10/18/11 14:04
LCS	1I26926-BS2	I26926L1.D	10/18/11 19:31
Blank	1I26926-BLK2	I26926B1.D	10/18/11 20:00
FLC-4-RB01-092211	1109191-10	0919110.D	10/18/11 20:30

INTERNAL STANDARD AREA AND RT SUMMARY
SW8270C

Laboratory:	Empirical Laboratories, LLC	SDG:	1109191
Client:	Tetra Tech NUS, Inc. (T010)	Project:	Navy Fuel Depot CTO JM46
Sequence:	1J29206	Instrument:	MS-BNA4
		Calibration:	1238006

Internal Standard	Response	RT	Reference Response	Reference RT	Area %	Area % Limits	RT Diff	RT Diff Limit	Q
Calibration Check (1J29206-CCV1)			Lab File ID: SEQ-CCV1.D			Analyzed: 10/18/11 14:04			
Phenanthrene-d10	125269	10.54	105583	10.012	119	50 - 200	0.5280	+/-0.50	
Perylene-d12	61317	17.382	58058	16.483	106	50 - 200	0.8990	+/-0.50	
LCS (1I26926-BS2)			Lab File ID: I26926L1.D			Analyzed: 10/18/11 19:31			
Phenanthrene-d10	120630	10.54	125269	10.54	96	50 - 200	0.0000	+/-0.50	
Perylene-d12	62363	17.382	61317	17.382	102	50 - 200	0.0000	+/-0.50	
Blank (1I26926-BLK2)			Lab File ID: I26926B1.D			Analyzed: 10/18/11 20:00			
Phenanthrene-d10	118545	10.54	125269	10.54	95	50 - 200	0.0000	+/-0.50	
Perylene-d12	54835	17.382	61317	17.382	89	50 - 200	0.0000	+/-0.50	
FLC-4-RB01-092211 (1109191-10)			Lab File ID: 0919110.D			Analyzed: 10/18/11 20:30			
Phenanthrene-d10	141560	10.54	125269	10.54	113	50 - 200	0.0000	+/-0.50	
Perylene-d12	63731	17.382	61317	17.382	104	50 - 200	0.0000	+/-0.50	

INITIAL CALIBRATION DATA

SW8270C

Laboratory:	Empirical Laboratories, LLC	SDG:	1109191
Client:	Tetra Tech NUS, Inc. (T010)	Project:	Navy Fuel Depot CTO JM46
Calibration:	1238006	Instrument:	MS-BNA4
Matrix:	Water	Calibration Dates:	8/24/11 14:35 8/24/11 18:33

Compound	Level 01		Level 02		Level 03		Level 04		Level 05		Level 06	
	ug/mL	RF	ug/mL	RF	ug/mL	RF	ug/mL	RF	ug/mL	RF	ug/mL	RF
Acenaphthene	0.1	0.9250935	0.2	0.9137168	0.5	0.9364989	1	0.8390082	5	0.9269314	10	0.8393586
Acenaphthylene	0.1	1.310504	0.2	1.352461	0.5	1.271225	1	1.290937	5	1.386269	10	1.244926
Anthracene	0.1	1.06615	0.2	1.134831	0.5	1.101345	1	1.102299	5	1.188356	10	1.148519
Benzo(a)anthracene	0.1	0.5409415	0.2	0.6742062	0.5	0.5788873	1	0.7281002	5	0.6593813	10	0.7987934
Benzo(a)pyrene	0.1	1.378905	0.2	1.002256	0.5	1.016483	1	1.019308	5	1.075559	10	1.127809
Benzo(b)fluoranthene	0.1	1.122247	0.2	1.081127	0.5	1.238364	1	1.347532	5	1.400773	10	1.437569
Benzo(g,h,i)perylene	0.1	0.6978619	0.2	0.7632258	0.5	0.8646701	1	0.7961693	5	0.8182613	10	0.795468
Benzo(k)fluoranthene	0.1	1.344346	0.2	1.226983	0.5	1.325082	1	1.236505	5	1.347683	10	1.446366
1,4-Dioxane	0.1	~~0.2807645~~	0.2	~~0.3183737~~	0.5	0.2708987	1	0.2169383	5	0.2263519	10	0.1911079
Carbazole	0.1	0.805164	0.2	0.748765	0.5	0.726024	1	0.9099382	5	0.8356716	10	0.7480102
Chrysene	0.1	0.5955121	0.2	0.6734888	0.5	0.5942531	1	0.7589479	5	0.660282	10	0.8081928
Dibenz(a,h)anthracene	0.1	0.6888766	0.2	0.7301866	0.5	0.6212773	1	0.7604637	5	0.8511152	10	0.8183589
Dibenzofuran	0.1	1.109842	0.2	1.009951	0.5	1.079967	1	1.095555	5	1.119407	10	1.03878
Di-n-octylphthalate	0.1	2.081836	0.2	1.837604	0.5	2.382857	1	2.023149	5	2.484434	10	2.384983
Bis(2-ethylhexyl)phthalate	0.1	1.772648	0.2	1.402655	0.5	1.746382	1	1.492163	5	1.834525	10	1.578448
Fluoranthene	0.1	0.9437932	0.2	1.144311	0.5	0.9607296	1	1.154921	5	1.122071	10	1.164182
Fluorene	0.1	0.7208357	0.2	0.7935516	0.5	0.8908906	1	0.8564163	5	0.9304082	10	0.8408686
2-Fluorobiphenyl	0.1	0.9588967	0.2	1.008414	0.5	0.9847565	1	0.9339003	5	0.9920094	10	0.8838859
Hexachlorobenzene	0.1	0.3964686	0.2	0.40231	0.5	0.3521092	1	0.3729767	5	0.356676	10	0.3264119
Hexachlorobutadiene	0.1	0.2584688	0.2	0.2972103	0.5	0.2885062	1	0.299158	5	0.2873645	10	0.2588622
Hexachlorocyclopentadiene	0.1	0.1100403	0.2	0.1417898	0.5	0.1327695	1	0.1796596	5	0.2421029	10	0.2484514
Hexachloroethane	0.1		0.2		0.5		1		5		10	
Indeno(1,2,3-cd)pyrene	0.1	0.7780389	0.2	0.7517426	0.5	0.7584511	1	0.7398291	5	0.7760122	10	0.8214657
Isophorone	0.1	0.9161932	0.2	1.015639	0.5	1.054392	1	0.9941468	5	1.058899	10	0.9183759
1-Methylnaphthalene	0.1	0.9628524	0.2	0.8826634	0.5	0.9399633	1	0.8267998	5	0.8932794	10	0.7948718
2-Methylnaphthalene	0.1	0.9978244	0.2	0.8913748	0.5	0.9675566	1	0.8669293	5	0.9100694	10	0.7917116
Naphthalene	0.1	1.747878	0.2	1.602784	0.5	1.531261	1	1.442401	5	1.532498	10	1.3281
N-Nitrosodiphenylamine	0.1		0.2		0.5		1		5		10	
N-Nitroso-di-n-propylamine	0.1	0.3780387	0.2	0.3538853	0.5	0.3875892	1	0.3550856	5	0.3875937	10	0.3380094
Pentachlorophenol	0.1		0.2		0.5	~~4.401875E-02~~	1	7.394183E-02	5	0.1140907	10	0.1406113
Phenanthrene	0.1	1.100493	0.2	1.227222	0.5	1.113348	1	1.180057	5	1.188825	10	1.148797

INITIAL CALIBRATION DATA

SW8270C

Laboratory:	Empirical Laboratories, LLC	SDG:	1109191
Client:	Tetra Tech NUS, Inc. (T010)	Project:	Navy Fuel Depot CTO JM46
Calibration:	1238006	Instrument:	MS-BNA4
Matrix:	Water	Calibration Dates:	8/24/11 14:35 8/24/11 18:33

Compound	Level 01		Level 02		Level 03		Level 04		Level 05		Level 06	
	ug/mL	RF	ug/mL	RF	ug/mL	RF	ug/mL	RF	ug/mL	RF	ug/mL	RF
Pyrene	0.1	1.188956	0.2	1.014922	0.5	0.9682087	1	1.142021	5	1.1344	10	1.157542
Terphenyl-d14	0.1	0.5796893	0.2	0.6757435	0.5	0.5439169	1	0.6142371	5	0.613267	10	0.6844251
2,4,6-Tribromophenol	0.2	~~0.144293~~	0.4	~~0.1036649~~	1	0.1499083	2	0.1575348	10	0.1820851	20	0.1756278

INITIAL CALIBRATION DATA (Continued)

SW8270C

Laboratory:	Empirical Laboratories, LLC	SDG:	1109191
Client:	Tetra Tech NUS, Inc. (T010)	Project:	Navy Fuel Depot CTO JM46
Calibration:	1238006	Instrument:	MS-BNA4
Matrix:	Water	Calibration Dates:	8/24/11 14:35 8/24/11 18:33

Compound	Level 07		Level 08		Level 09		Level 10		Level 11		Level 12	
	ug/mL	RF	ug/mL	RF	ug/mL	RF	ug/mL	RF	ug/mL	RF	ug/mL	RF
Acenaphthene	20	0.8784872	50	0.8458228								
Acenaphthylene	20	1.297533	50	1.20877								
Anthracene	20	1.205372	50	1.177482								
Benzo(a)anthracene	20	0.7839756	50	0.8122166								
Benzo(a)pyrene	20	1.205292	50	1.177397								
Benzo(b)fluoranthene	20	1.575784	50	1.477207								
Benzo(g,h,i)perylene	20	0.9098913	50	0.885178								
Benzo(k)fluoranthene	20	1.46597	50	1.416125								
1,4-Dioxane	20	0.1978183	50	0.1858208								
Carbazole	20	~~0.533024~~	50	~~0.1673948~~								
Chrysene	20	0.7485348	50	0.7758677								
Dibenz(a,h)anthracene	20	0.9273779	50	0.9395602								
Dibenzofuran	20	1.080127	50	1.036678								
Di-n-octylphthalate	20	2.711246	50	2.357188								
Bis(2-ethylhexyl)phthalate	20	1.874446	50	1.507926								
Fluoranthene	20	1.131794	50	1.144791								
Fluorene	20	0.885353	50	0.8574573								
2-Fluorobiphenyl	20	0.9326552	50	0.8648192								
Hexachlorobenzene	20	0.3371224	50	0.3207613								
Hexachlorobutadiene	20	0.2757839	50	0.2544433								
Hexachlorocyclopentadiene	20	0.2872022	50	0.2795768								
Hexachloroethane	20		50									
Indeno(1,2,3-cd)pyrene	20	0.9101472	50	0.9226895								
Isophorone	20	0.9777567	50	0.8985924								
1-Methylnaphthalene	20	0.8391113	50	0.7766753								
2-Methylnaphthalene	20	0.8795573	50	0.8287812								
Naphthalene	20	1.40468	50	1.318393								
N-Nitrosodiphenylamine	20		50									
N-Nitroso-di-n-propylamine	20	0.3589454	50	0.3343617								
Pentachlorophenol	20	0.162175	50	0.1706571								
Phenanthrene	20	1.192468	50	1.157994								

INITIAL CALIBRATION DATA (Continued)

SW8270C

Laboratory:	Empirical Laboratories, LLC	SDG:	1109191
Client:	Tetra Tech NUS, Inc. (T010)	Project:	Navy Fuel Depot CTO JM46
Calibration:	1238006	Instrument:	MS-BNA4
Matrix:	Water	Calibration Dates:	8/24/11 14:35 8/24/11 18:33

Compound	Level 07		Level 08		Level 09		Level 10		Level 11		Level 12	
	ug/mL	RF	ug/mL	RF	ug/mL	RF	ug/mL	RF	ug/mL	RF	ug/mL	RF
Pyrene	20	1.154247	50	1.138918								
Terphenyl-d14	20	0.6894383	50	0.6732402								
2,4,6-Tribromophenol	40	0.1903821	100	0.183212								

INITIAL CALIBRATION DATA (Continued)

SW8270C

Laboratory:	Empirical Laboratories, LLC	SDG:	1109191
Client:	Tetra Tech NUS, Inc. (T010)	Project:	Navy Fuel Depot CTO JM46
Calibration:	1238006	Instrument:	MS-BNA4
Matrix:	Water	Calibration Dates:	8/24/11 14:35 8/24/11 18:33

Compound	Mean RF	RF RSD	Mean RT	RT RSD	Linear r	Quad COD	LIMIT	Q
Acenaphthene	0.8881147	4.765862	8.240375	8.005672E-02			CCC ()	*
Acenaphthylene	1.295328	4.367363	8.027625	8.607367E-02			15	
Anthracene	1.140544	4.254591	10.10862	0.0700752			15	
Benzo(a)anthracene	0.6970627	14.59061	13.80988	0.0529908			15	
Benzo(a)pyrene	1.125376	11.34597	16.38237	4.577814E-02			CCC ()	*
Benzo(b)fluoranthene	1.335075	13.04297	15.80187	8.137397E-02			15	
Benzo(g,h,i)perylene	0.8163407	8.478144	18.8055	4.843521E-02			15	
Benzo(k)fluoranthene	1.351132	6.606248	15.85263	0.0761119			15	
1,4-Dioxane	0.2148226	14.68292	1.8985	0.1928826			15	
Carbazole	0.7955955	8.720815	10.3205	3.570712E-02			15	
Chrysene	0.7018849	11.75411	13.87237	4.522786E-02			15	
Dibenz(a,h)anthracene	0.792152	14.22527	18.3905	4.438511E-02			15	
Dibenzofuran	1.071288	3.625778	8.45425	7.957409E-02			15	
Di-n-octylphthalate	2.282912	12.3476	15.27513	1.080603E-02			CCC ()	*
Bis(2-ethylhexyl)phthalate	1.651149	10.74033	14.01225	2.946812E-02			15	
Fluoranthene	1.095824	8.181104	11.52912	1.610412E-02			CCC ()	*
Fluorene	0.8469727	7.646974	8.87125	4.967807E-02			15	
2-Fluorobiphenyl	0.9449172	5.432361	7.39325	5.511184E-02			15	
Hexachlorobenzene	0.3581045	8.525264	9.53925	4.144637E-02			15	
Hexachlorobutadiene	0.2774747	6.561169	6.258125	4.708383E-02			CCC ()	*
Hexachlorocyclopentadiene	0.2026991	34.59102	7.123375	6.064274E-02	0.9992763		0.995	
Hexachloroethane							15	
Indeno(1,2,3-cd)pyrene	0.807297	8.877407	18.33625	0.0475878			15	
Isophorone	0.9792494	6.426912	5.56275	0.1266547			15	
1-Methylnaphthalene	0.8645271	7.716576	7.057125	4.664672E-02			15	
2-Methylnaphthalene	0.8917256	7.590679	6.94225	9.738335E-02			15	
Naphthalene	1.488499	9.765898	6.111375	7.795345E-02			15	
N-Nitrosodiphenylamine							CCC ()	
N-Nitroso-di-n-propylamine	0.3616886	5.751036	5.101875	0.1887678			15	
Pentachlorophenol	0.1322952	29.68742	9.7948	0.0847485		0.9994601	CCC ()	*
Phenanthrene	1.163651	3.638206	10.04475	7.061639E-02			15	
Pyrene	1.112402	6.963902	11.839	6.221472E-02			15	

INITIAL CALIBRATION DATA (Continued)

SW8270C

Laboratory:	Empirical Laboratories, LLC	SDG:	1109191
Client:	Tetra Tech NUS, Inc. (T010)	Project:	Navy Fuel Depot CTO JM46
Calibration:	1238006	Instrument:	MS-BNA4
Matrix:	Water	Calibration Dates:	8/24/11 14:35 8/24/11 18:33

Compound	Mean RF	RF RSD	Mean RT	RT RSD	Linear r	Quad COD	LIMIT	Q
Terphenyl-d14	0.6342447	8.591082	12.10513	2.846396E-02			15	
2,4,6-Tribromophenol	0.173125	9.199082	9.170834	8.799438E-02			15	

INITIAL CALIBRATION CHECK

SW8270C

Laboratory:	Empirical Laboratories, LLC	SDG:	1109191
Client:	Tetra Tech NUS, Inc. (T010)	Project:	Navy Fuel Depot CTO JM46
Instrument ID:	MS-BNA4	Calibration:	1238006
Lab File ID:	SEQ-ICV1.D	Calibration Date:	08/24/11 14:16
Sequence:	1H23712	Injection Date:	08/24/11
Lab Sample ID:	1H23712-ICV1	Injection Time:	19:02

		CONC. (ug/mL)		RESPONSE FACTOR			% DIFF / DRIFT	
COMPOUND	TYPE	STD	ICV	ICAL	ICV	MIN (#)	ICV	LIMIT (#)
Acenaphthene	A	5.000	5.510	0.8881147	0.9786847		10.2	20
Acenaphthylene	A	5.000	5.578	1.295328	1.445077		11.6	20
Anthracene	A	5.000	5.626	1.140544	1.283382		12.5	20
Benzo(a)anthracene	A	5.000	5.418	0.6970627	0.7552943		8.4	20
Benzo(a)pyrene	A	5.000	5.079	1.125376	1.143152		1.6	20
Benzo(b)fluoranthene	A	5.000	5.229	1.335075	1.39628		4.6	20
Benzo(g,h,i)perylene	A	5.000	5.076	0.8163407	0.8286846		1.5	20
Benzo(k)fluoranthene	A	5.000	5.414	1.351132	1.462908		8.3	20
Chrysene	A	5.000	5.424	0.7018849	0.7614294		8.5	20
Dibenz(a,h)anthracene	A	5.000	5.548	0.792152	0.8789424		11.0	20
Fluoranthene	A	5.000	5.359	1.095824	1.174563		7.2	20
Fluorene	A	5.000	5.736	0.8469727	0.9715661		14.7	20
Hexachlorobutadiene	A	5.000	5.930	0.2774747	0.3291088		18.6	20
Indeno(1,2,3-cd)pyrene	A	5.000	5.009	0.807297	0.808753		0.2	20
1-Methylnaphthalene	A	5.000	4.971	0.8645271	0.8594861		-0.6	20
2-Methylnaphthalene	A	5.000	5.068	0.8917256	0.9037654		1.4	20
Naphthalene	A	5.000	5.687	1.488499	1.69304		13.7	20
Pentachlorophenol	Q	5.000	4.982	0.1322952	0.1281199		-0.4	20
Phenanthrene	A	5.000	5.574	1.163651	1.297238		11.5	20
Pyrene	A	5.000	5.539	1.112402	1.232241		10.8	20
2-Fluorobiphenyl	A	5.000	5.058	0.9449172	0.9558622		1.2	20
Terphenyl-d14	A	5.000	5.406	0.6342447	0.6857866		8.1	20
2,4,6-Tribromophenol	A	10.00	11.07	0.173125	0.1915846		10.7	20

Column to be used to flag Response Factor and %Diff/Drift values with an asterisk

* Values outside of QC limits

CONTINUING CALIBRATION CHECK

SW8270C

Laboratory:	Empirical Laboratories, LLC	SDG:	1109191
Client:	Tetra Tech NUS, Inc. (T010)	Project:	Navy Fuel Depot CTO JM46
Instrument ID:	MS-BNA4	Calibration:	1238006
Lab File ID:	SEQ-CCV1.D	Calibration Date:	08/24/11 14:16
Sequence:	1J29206	Injection Date:	10/18/11
Lab Sample ID:	1J29206-CCV1	Injection Time:	14:04

		CONC. (ug/mL)		RESPONSE FACTOR			% DIFF / DRIFT	
COMPOUND	TYPE	STD	CCV	ICAL	CCV	MIN (#)	CCV	LIMIT (#)
Acenaphthene	A	5.000	4.520	0.8881147	0.8029584		-9.6	20
Acenaphthylene	A	5.000	4.674	1.295328	1.211012		-6.5	20
Anthracene	A	5.000	4.540	1.140544	1.035579		-9.2	20
Benzo(a)anthracene	A	5.000	4.865	0.6970627	0.6782684		-2.7	20
Benzo(a)pyrene	A	5.000	4.543	1.125376	1.022451		-9.1	20
Benzo(b)fluoranthene	A	5.000	4.291	1.335075	1.145849		-14.2	20
Benzo(g,h,i)perylene	A	5.000	5.399	0.8163407	0.8815141		8.0	20
Benzo(k)fluoranthene	A	5.000	4.561	1.351132	1.232471		-8.8	20
Chrysene	A	5.000	4.737	0.7018849	0.6650105		-5.3	20
Dibenz(a,h)anthracene	A	5.000	4.769	0.792152	0.7556273		-4.6	20
Fluoranthene	A	5.000	4.618	1.095824	1.012175		-7.6	20
Fluorene	A	5.000	4.741	0.8469727	0.8031404		-5.2	20
Hexachlorobutadiene	A	5.000	4.601	0.2774747	0.2553273		-8.0	20
Indeno(1,2,3-cd)pyrene	A	5.000	5.089	0.807297	0.8216906		1.8	20
1-Methylnaphthalene	A	5.000	4.565	0.8645271	0.7893621		-8.7	20
2-Methylnaphthalene	A	5.000	4.640	0.8917256	0.8274529		-7.2	20
Naphthalene	A	5.000	4.351	1.488499	1.29538		-13.0	20
Pentachlorophenol	Q	5.000	2.649	0.1322952	5.063982E-02		-47.0	20 *
Phenanthrene	A	5.000	4.455	1.163651	1.036742		-10.9	20
Pyrene	A	5.000	4.532	1.112402	1.008324		-9.4	20
2-Fluorobiphenyl	A	5.000	4.862	0.9449172	0.9189265		-2.8	20
Terphenyl-d14	A	5.000	5.199	0.6342447	0.6594656		4.0	20
2,4,6-Tribromophenol	A	10.00	4.712	0.173125	8.158204E-02		-52.9	20 *

Column to be used to flag Response Factor and %Diff/Drift values with an asterisk

* Values outside of QC limits

ANALYSIS DATA SHEET

Blank

Laboratory: Empirical Laboratories, LLC SDG: 1109191

Client: Tetra Tech NUS, Inc. (T010) Project: Navy Fuel Depot CTO JM46

Matrix: Laboratory ID: 1I26926-BLK2 File ID: I26926B1.D

Sampled: Prepared: Analyzed: 10/18/11 20:00

Solids: Preparation: EXT_3510 Dilution:

Batch: 1I26926 Sequence: 1J29206 Calibration: 1238006 Instrument: MS-BNA4

CAS NO.	COMPOUND	CONC. (ug/L)	DL	LOD	LOQ	Q
83-32-9	Acenaphthene		0.0500	0.100	0.200	U
208-96-8	Acenaphthylene		0.0500	0.100	0.200	U
120-12-7	Anthracene		0.0500	0.100	0.200	U
56-55-3	Benzo(a)anthracene		0.0500	0.100	0.200	U
50-32-8	Benzo(a)pyrene		0.0500	0.100	0.200	U
205-99-2	Benzo(b)fluoranthene		0.0500	0.100	0.200	U
191-24-2	Benzo(g,h,i)perylene		0.0500	0.100	0.200	U
207-08-9	Benzo(k)fluoranthene		0.0500	0.100	0.200	U
218-01-9	Chrysene		0.0500	0.100	0.200	U
53-70-3	Dibenz(a,h)anthracene		0.0500	0.100	0.200	U
206-44-0	Fluoranthene		0.0500	0.100	0.200	U
86-73-7	Fluorene		0.0500	0.100	0.200	U
87-68-3	Hexachlorobutadiene		0.250	0.500	1.00	U
193-39-5	Indeno(1,2,3-cd)pyrene		0.0500	0.100	0.200	U
90-12-0	1-Methylnaphthalene		0.0500	0.100	0.200	U
91-57-6	2-Methylnaphthalene		0.0500	0.100	0.200	U
91-20-3	Naphthalene		0.0500	0.100	0.200	U
87-86-5	Pentachlorophenol		1.00	2.00	4.00	Q, Y, U
85-01-8	Phenanthrene	0.0716	0.0500	0.100	0.200	I
129-00-0	Pyrene		0.0500	0.100	0.200	U

SYSTEM MONITORING COMPOUND	ADDED (ug/L)	CONC (ug/L)	% REC	QC LIMITS	Q
2-Fluorobiphenyl	50.00	28.79	57.6	34 - 167	
Terphenyl-d14	50.00	49.70	99.4	34 - 167	
2,4,6-Tribromophenol	100.0	68.47	68.5	34 - 167	Y

ANALYSIS DATA SHEET

LCS

Laboratory: Empirical Laboratories, LLC SDG: 1109191

Client: Tetra Tech NUS, Inc. (T010) Project: Navy Fuel Depot CTO JM46

Matrix: Laboratory ID: 1I26926-BS2 File ID: I26926L1.D

Sampled: Prepared: Analyzed: 10/18/11 19:31

Solids: Preparation: EXT_3510 Dilution:

Batch: 1I26926 Sequence: 1J29206 Calibration: 1238006 Instrument: MS-BNA4

CAS NO.	COMPOUND	CONC. (ug/L)	DL	LOD	LOQ	Q
83-32-9	Acenaphthene	0.8263	0.0500	0.100	0.200	
208-96-8	Acenaphthylene	0.7760	0.0500	0.100	0.200	
120-12-7	Anthracene	0.8460	0.0500	0.100	0.200	
56-55-3	Benzo(a)anthracene	0.9480	0.0500	0.100	0.200	
50-32-8	Benzo(a)pyrene	0.7579	0.0500	0.100	0.200	
205-99-2	Benzo(b)fluoranthene	0.8489	0.0500	0.100	0.200	
191-24-2	Benzo(g,h,i)perylene	1.154	0.0500	0.100	0.200	
207-08-9	Benzo(k)fluoranthene	0.8878	0.0500	0.100	0.200	
218-01-9	Chrysene	0.9544	0.0500	0.100	0.200	
53-70-3	Dibenz(a,h)anthracene	0.9110	0.0500	0.100	0.200	
206-44-0	Fluoranthene	0.9086	0.0500	0.100	0.200	
86-73-7	Fluorene	0.9201	0.0500	0.100	0.200	
87-68-3	Hexachlorobutadiene	0.8444	0.250	0.500	1.00	I
193-39-5	Indeno(1,2,3-cd)pyrene	1.042	0.0500	0.100	0.200	
90-12-0	1-Methylnaphthalene	0.8699	0.0500	0.100	0.200	
91-57-6	2-Methylnaphthalene	0.8554	0.0500	0.100	0.200	
91-20-3	Naphthalene	0.8037	0.0500	0.100	0.200	
87-86-5	Pentachlorophenol	1.528	1.00	2.00	4.00	Y, I
85-01-8	Phenanthrene	0.9686	0.0500	0.100	0.200	
129-00-0	Pyrene	0.9056	0.0500	0.100	0.200	

SYSTEM MONITORING COMPOUND	ADDED (ug/L)	CONC (ug/L)	% REC	QC LIMITS	Q
2-Fluorobiphenyl	50.00	30.44	60.9	34 - 167	
Terphenyl-d14	50.00	48.20	96.4	34 - 167	
2,4,6-Tribromophenol	100.0	72.10	72.1	34 - 167	Y

HOLDING TIME SUMMARY

SW8270C

Laboratory: Empirical Laboratories, LLC SDG: 1109191

Client: Tetra Tech NUS, Inc. (T010) Project: Navy Fuel Depot CTO JM46

Sample Name	Date Collected	Date Received	Date Prepared	Days to Prep	Max Days to Prep	Date Analyzed	Days to Analysis	Max Days to Analysis	Q
FLC-4-RB01-092211	09/22/11 11:15	09/24/11 09:00	09/27/11 12:00	5.03	7.00	10/18/11 20:30	21.35	40.00	

Data for SW8270C
Supporting Raw Data / Logs

Sequence Name: C:\msdchem\1\sequence\082411b4.S
Comment: EPA8270
Operator: MEC
Data Path: D:\DATA\082411B4\
Instrument Control Pre-Seq Cmd:
Data Analysis Pre-Seq Cmd:

Instrument Control Post-Seq Cmd:
Data Analysis Post-Seq Cmd:

94 8

8/25/11

Method Sections To Run
(X) Full Method
( ) Reprocessing Only

On A Barcode Mismatch
(X) Inject Anyway
( ) Don't Inject

Line			Sample Name/Misc Info
1)	Sample	1	SEQ-TUN1 DFBN4LOW DF0824B1;;;;;11G0602 14:16, 8/24
2)	Sample	2	SEQ-CAL1 IXBN4LOW CAL-0.10PPM;;;;;11D0430
3)	Sample	3	SEQ-CAL2 IXBN4LOW CAL-0.20PPM;;;;;11C0008
4)	Sample	4	SEQ-CAL3 IXBN4LOW CAL-0.50PPM;;;;;11C0009
5)	Sample	5	SEQ-CAL4 IXBN4LOW CAL-1.00PPM;;;;;11C0010
6)	Sample	6	SEQ-CAL5 IXBN4LOW CAL-5.00PPM;;;;;11C0011
7)	Sample	7	SEQ-CAL6 IXBN4LOW CAL-10.0PPM;;;;;11C0012
8)	Sample	8	SEQ-CAL7 IXBN4LOW CAL-20.0PPM;;;;;11C0013
9)	Sample	9	SEQ-CAL8 IXBN4LOW CAL-40.0PPM;;;;;11C0014 - Did not use
10)	Sample	10	SEQ-CAL9 IXBN4LOW CAL-50.0PPM;;;;;11C0015
11)	Sample	11	SEQ-ICV1 IXBN4LOW ICV-5.0PPM;;;;;11H0666 19:02, 8/24

Last Modified: Thu Aug 25 12:53:58 2011

Data File: \\ELABNSH05\TARGET\chem\bna4.i\082411B4.b\SEQ-TUN1.D

Date : 24-AUG-2011 14:16

Client ID: 50ppm DFTPP

Instrument: bna4.i

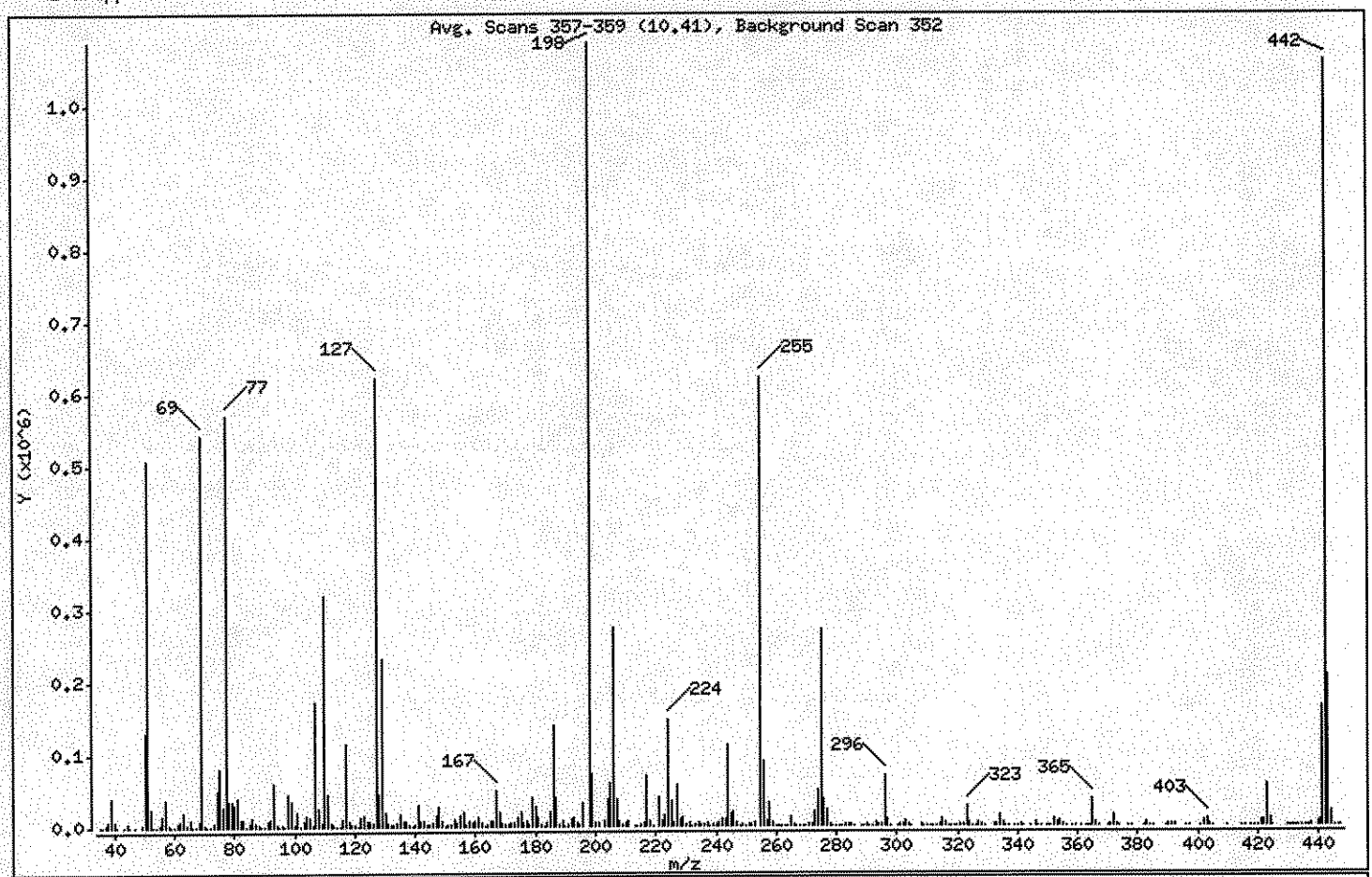
Sample Info: DF0824B1;;;;;11G0602

Operator: MEC

Column phase: DB5-MS

Column diameter: 0.25

1 dftpp



m/e	ION ABUNDANCE CRITERIA	% RELATIVE ABUNDANCE
198	Base Peak, 100% relative abundance	100.00
51	30.00 - 60.00% of mass 198	46.61
68	Less than 2.00% of mass 69	0.73 (1.46)
69	Mass 69 relative abundance	49.80
70	Less than 2.00% of mass 69	0.19 (0.38)
127	40.00 - 60.00% of mass 198	57.32
197	Less than 1.00% of mass 198	0.00
199	5.00 - 9.00% of mass 198	6.71
275	10.00 - 30.00% of mass 198	24.96
365	Greater than 1.00% of mass 198	3.37
441	Present, but less than mass 443	15.21
442	Greater than 40.00% of mass 198	97.74
443	17.00 - 23.00% of mass 442	19.08 (19.52)

MB 8/29/11

8/25/11

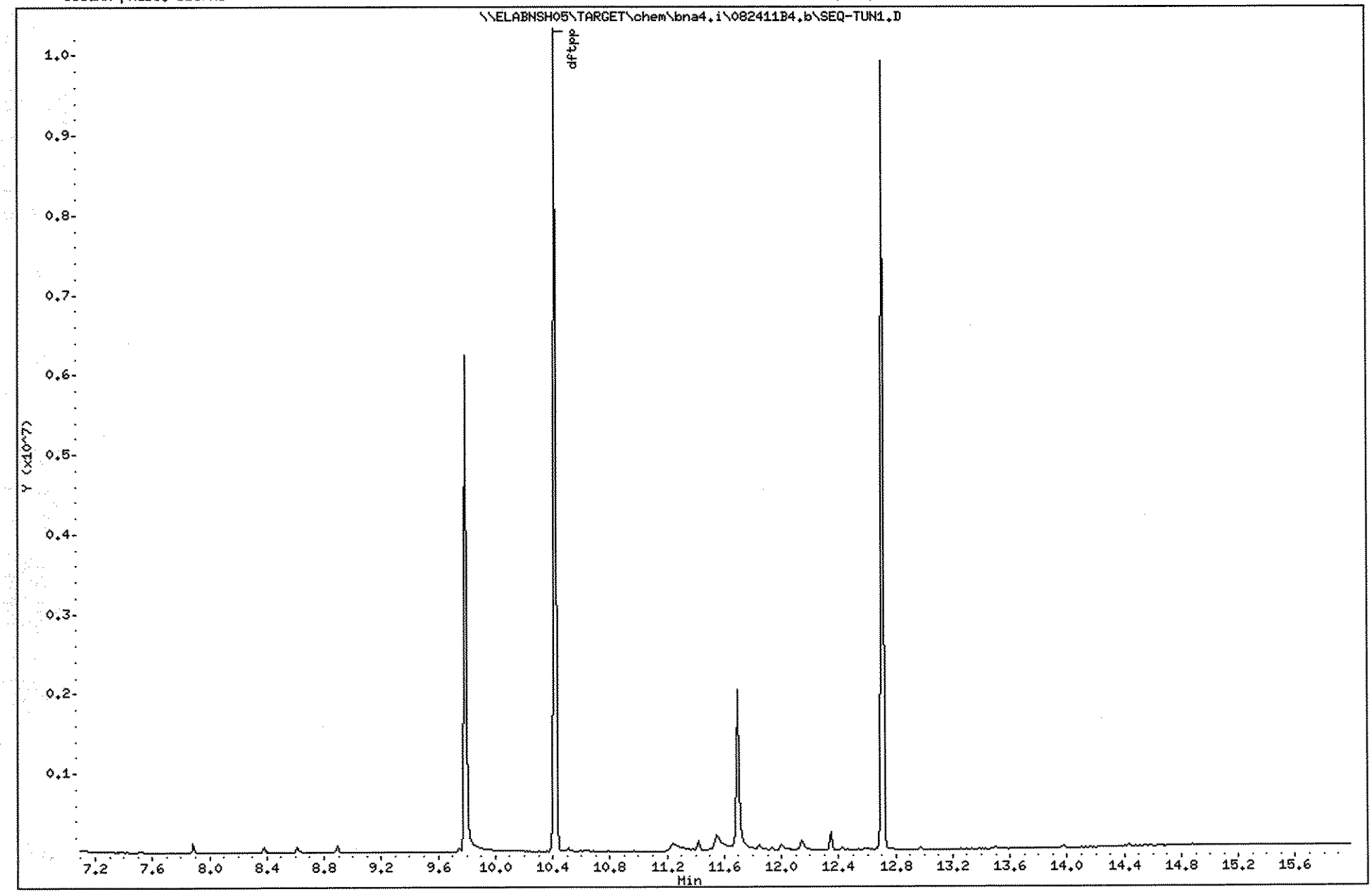
Data File: \\ELABNSH05\TARGET\chem\bna4.i\082411B4.b\SEQ-TUN1.D
Date : 24-AUG-2011 14:16
Client ID: 50ppm DFTPP
Sample Info: DF0824B1;;;;;11G0602

Instrument: bna4.i

Operator: MEC

Column phase: DB5-MS

Column diameter: 0.25



836

1109191

Data File: \\ELABNSH05\TARGET\chem\bna4.i\082411B4.b\SEQ-TUN1.D

Date : 24-AUG-2011 14:16

Client ID: 50ppm DFTPP

Instrument: bna4.i

Sample Info: DF0824B1;;;;;11G0602

Operator: MEC

Column phase: DB5-MS

Column diameter: 0.25

Data File: SEQ-TUN1.D

Spectrum: Avg. Scans 357-359 (10.41), Background Scan 352

Location of Maximum: 198.00

Number of points: 370

m/z	Y	m/z	Y	m/z	Y	m/z	Y
35.10	138	131.10	4502	228.00	9004	324.00	4866
36.00	474	132.00	1705	229.00	12159	325.10	402
37.10	2005	132.90	1315	230.10	2236	326.00	540
38.00	6378	134.00	5818	231.10	5125	327.00	4229
39.10	39464	135.10	18280	232.10	753	328.00	2854
40.00	6603	136.00	7029	233.00	1378	329.10	617
41.00	1236	137.10	6834	234.00	4842	332.10	2357
43.10	660	138.00	1788	234.90	3330	333.10	2133
44.10	4908	139.10	1200	236.00	2480	334.10	13837
45.00	1193	140.00	2025	237.00	4686	335.10	4338
47.00	423	141.00	28952	237.80	638	336.10	918
49.10	3558	141.90	7897	239.10	2160	336.90	216
50.10	131072	143.10	7384	240.10	1311	338.80	271
51.10	507136	144.00	1973	241.10	3979	340.00	651
52.10	24000	145.00	1425	242.00	8771	341.10	2919
53.00	1221	146.00	4848	243.10	9978	341.90	629
54.20	223	147.00	14151	244.10	113416	344.20	249
55.00	2457	148.00	28664	245.10	17808	346.00	5212
56.00	14955	149.00	6707	246.00	19448	347.00	649
57.00	37184	150.10	826	247.00	4497	348.10	204
58.10	1756	151.00	3216	247.90	1030	349.90	215
58.90	660	151.70	1992	248.30	1118	350.40	267
60.10	363	153.10	9624	249.00	3551	351.00	1000
61.00	5660	154.00	5769	249.90	869	352.10	8895
62.00	8086	155.00	15540	250.90	1294	353.10	6158
63.00	20144	156.10	21128	252.00	1826	354.10	7429
64.00	3316	157.00	3658	253.10	4117	354.90	1385
65.10	10893	157.90	6646	255.00	624000	356.30	256
66.00	799	159.00	5642	256.00	90392	358.20	112
67.10	956	160.00	7656	257.00	6302	359.20	573
68.10	7893	161.00	12251	258.00	33480	360.90	459
69.00	541824	162.00	4703	259.10	5279	362.70	252
70.00	2055	163.10	588	260.10	981	363.40	273
70.90	408	164.00	1664	260.80	427	364.00	433
72.20	303	165.00	8325	261.30	434	365.00	36664

Data File: \\ELABNSH05\TARGET\chem\bna4.i\082411B4.b\SEQ-TUN1.D

Date : 24-AUG-2011 14:16

Client ID: 50ppm DFTPP

Instrument: bna4.i

Sample Info: DF0824B1;;;;;11G0602

Operator: MEC

Column phase: DB5-MS

Column diameter: 0.25

Data File: SEQ-TUN1.D

Spectrum: Avg. Scans 357-359 (10.41), Background Scan 352

Location of Maximum: 198.00

Number of points: 370

m/z	Y	m/z	Y	m/z	Y	m/z	Y
73.00	4043	166.00	7207	262.20	346	366.00	5005
74.10	49112	167.00	49120	263.10	407	367.10	164
75.00	80200	168.00	20816	264.00	971	370.10	962
76.10	27680	168.90	4036	265.00	13079	371.00	2501
77.10	569728	170.00	1783	266.00	2803	372.10	14555
78.10	35456	170.90	2296	266.90	103	373.00	3418
79.00	36152	172.00	4430	267.70	582	374.00	404
80.00	29072	173.10	6027	269.10	291	376.90	521
81.00	39992	174.00	12520	270.00	785	378.00	157
81.90	9879	175.10	20560	271.00	2666	382.00	196
83.00	9046	176.00	5522	272.10	2995	383.00	3920
84.00	810	177.00	8099	273.00	19936	384.00	1004
85.00	5800	178.00	2592	274.00	49536	385.00	358
86.00	11610	179.00	41128	275.00	271616	389.10	199
87.00	4452	180.00	27560	276.00	36416	390.10	2362
88.00	1318	181.00	12872	277.00	21792	391.10	1338
89.00	916	182.00	1710	278.00	3399	392.20	1272
89.90	247	182.90	626	279.00	379	395.80	339
91.00	8746	184.00	4485	280.00	434	397.00	259
92.00	9130	185.10	20656	280.90	192	401.00	1146
93.00	59384	186.00	138816	282.00	874	402.00	6987
94.10	3526	187.00	40968	283.00	2871	403.10	8872
95.10	674	188.00	3592	284.10	1658	404.10	3391
96.10	3331	189.00	8228	285.00	3644	404.80	546
96.90	1175	189.90	1166	286.10	714	409.90	196
98.00	44512	191.00	3689	288.20	286	414.90	271
99.00	34736	192.00	10442	289.00	1193	416.10	173
100.00	2907	193.00	12985	290.00	1299	417.70	219
101.00	20352	194.10	3883	291.00	705	418.70	276
101.90	976	194.90	2118	292.10	709	419.80	134
103.00	6912	196.00	32528	293.00	4287	421.00	7606
104.00	14081	198.00	1088000	294.00	2124	422.00	7403
105.00	12574	199.00	72968	295.10	2637	423.10	57088
106.10	3327	200.00	6125	296.00	69536	424.00	10523
107.00	173248	201.50	4922	297.00	10565	424.80	1227

Data File: \\ELABNSH05\TARGET\chem\bna4.i\082411B4.b\SEQ-TUN1.D

Date : 24-AUG-2011 14:16

Client ID: 50ppm DFTPP

Instrument: bna4.i

Sample Info: DF0824B1;;;;;11G0602

Operator: MEC

Column phase: DB5-MS

Column diameter: 0.25

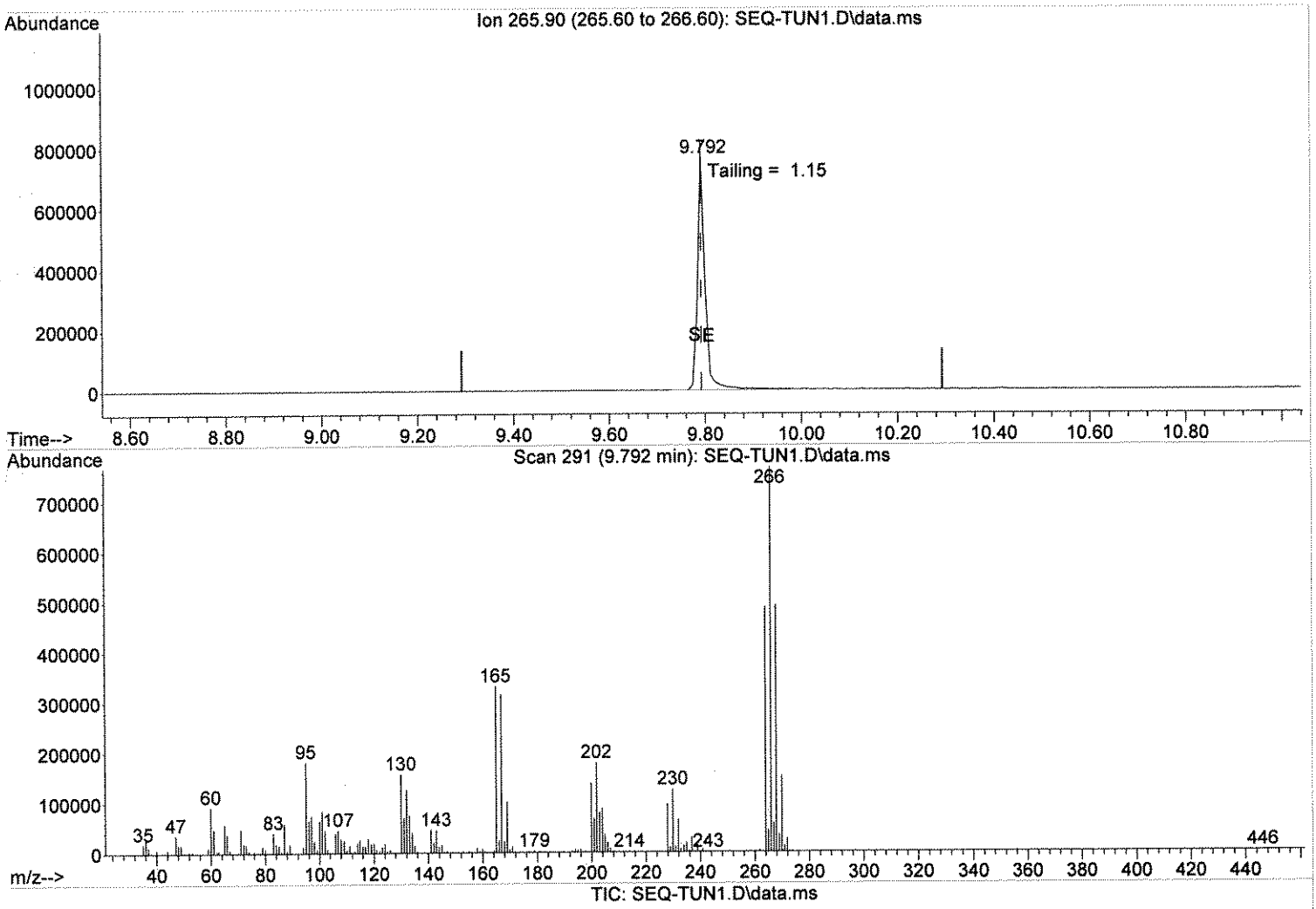
Data File: SEQ-TUN1.D
Spectrum: Avg. Scans 357-359 (10.41), Background Scan 352
Location of Maximum: 198.00
Number of points: 370

m/z	Y	m/z	Y	m/z	Y	m/z	Y
108.00	26152	203.00	7451	298.00	605	429.60	190
109.00	4944	204.00	37648	300.20	135	430.10	122
110.00	319552	205.00	59264	301.00	1305	430.80	245
111.00	43816	206.10	274752	302.10	1316	431.30	241
112.10	5010	207.10	37320	303.00	6982	431.90	131
113.00	1582	208.00	8671	304.00	2575	432.40	255
114.00	560	209.10	2570	304.90	372	433.10	326
115.20	628	210.10	3893	308.10	1713	434.40	659
116.00	9960	211.10	8320	308.90	626	435.40	854
117.00	114336	213.00	707	310.00	712	436.00	677
118.00	8149	214.00	478	311.10	337	436.90	812
119.00	1373	214.90	2603	312.10	389	437.70	1873
120.00	1876	216.10	4872	313.00	772	439.60	4716
121.10	587	217.00	70024	314.00	3665	440.20	7504
122.00	11336	218.00	7826	315.00	9322	441.00	165440
123.10	14790	219.00	917	316.10	4467	442.10	1063424
124.00	7473	221.00	41160	317.10	938	443.10	207616
125.00	6445	222.00	8021	317.80	129	444.10	20712
126.20	4835	223.00	15731	318.90	190	445.00	1250
127.00	623616	224.00	148288	319.70	160	446.20	808
128.00	46192	225.00	34144	321.00	1718	447.30	349
129.00	232320	226.10	3769	322.10	1608		
130.00	19416	227.00	57160	323.10	27128		

Quantitation Report (Qedit)

Data Path : D:\DATA\082411B4\
Data File : SEQ-TUN1.D
Acq On : 24 Aug 2011 2:16 pm
Operator : MEC
Sample : DF0824B1;;;;;11G0602
Misc : ;3;DFTPP;;;;all.sub;
ALS Vial : 1 Sample Multiplier: 1

Quant Time: Aug 25 12:42:42 2011
Quant Method : C:\MSDCHEM\1\METHODS\DFTPP.M
Quant Title : DFTPP EVALUATION
QLast Update : Thu Jun 30 14:07:24 2011
Response via : Initial Calibration



(1) pentachlorophenol

9.792min (+0.000) 0.00 m

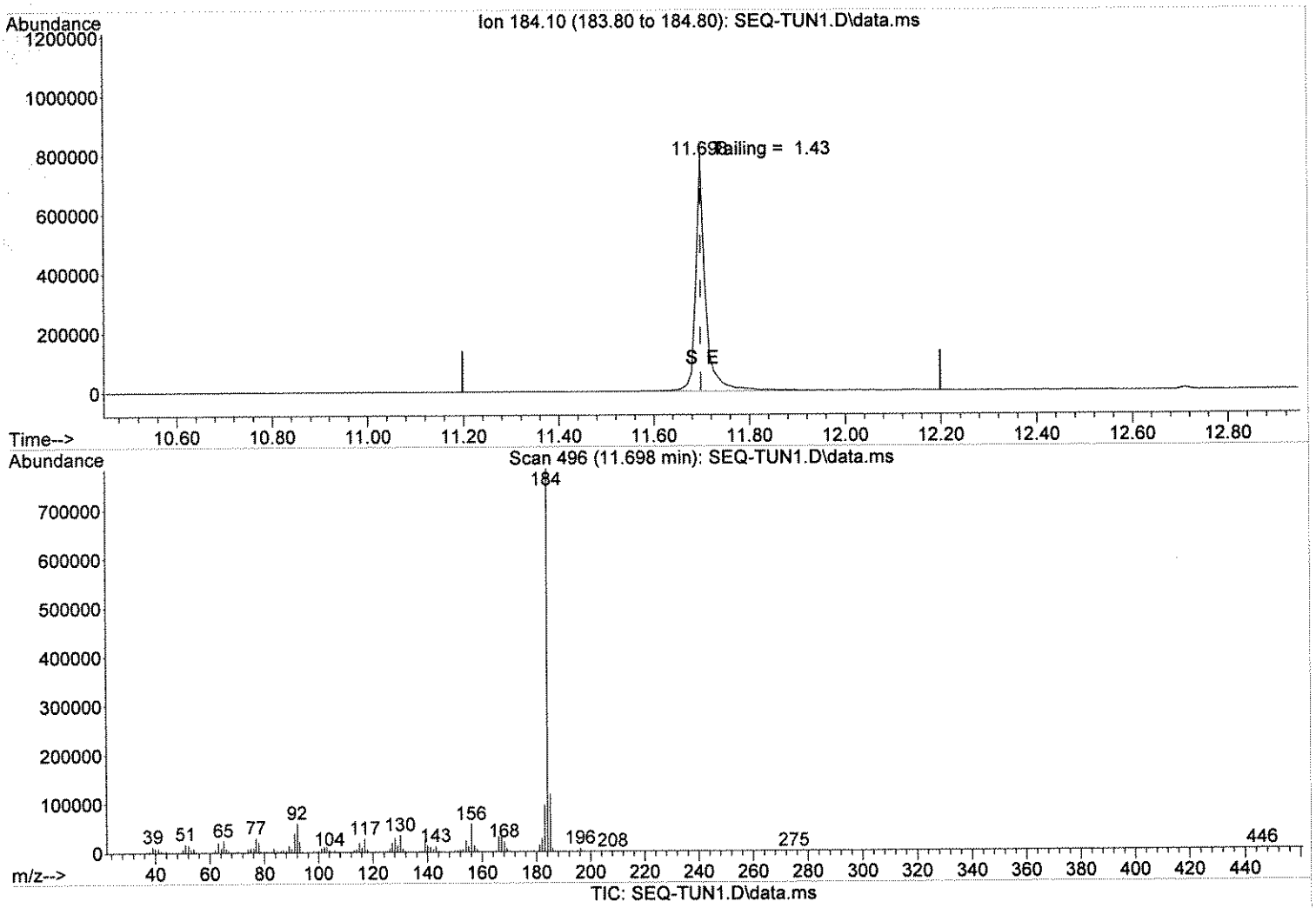
response 857816

Ion	Exp%	Act%
265.90	100	100
0.00	0.00	0.00
0.00	0.00	0.00
0.00	0.00	0.00

Quantitation Report (Qedit)

Data Path : D:\DATA\082411B4\
Data File : SEQ-TUN1.D
Acq On : 24 Aug 2011 2:16 pm
Operator : MEC
Sample : DF0824B1;;;;;11G0602
Misc : ;3;DFTPP;;;;all.sub;
ALS Vial : 1 Sample Multiplier: 1

Quant Time: Aug 25 12:42:42 2011
Quant Method : C:\MSDCHEM\1\METHODS\DFTPP.M
Quant Title : DFTPP EVALUATION
QLast Update : Thu Jun 30 14:07:24 2011
Response via : Initial Calibration



(2) benzidine

11.698min (-0.000) 0.00

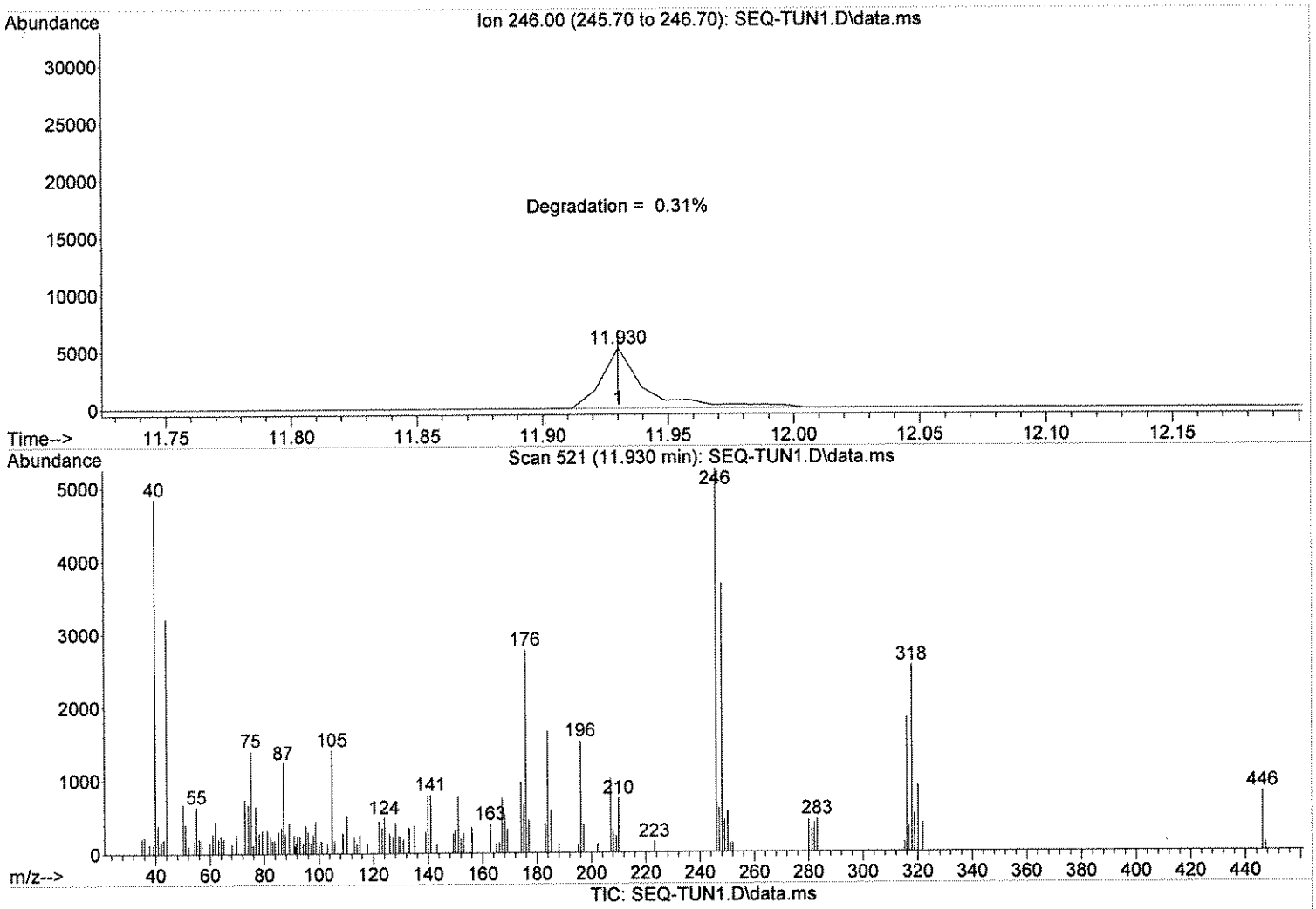
response 1127655

Ion	Exp%	Act%
184.10	100	100
0.00	0.00	0.00
0.00	0.00	0.00
0.00	0.00	0.00

Quantitation Report (Qedit)

Data Path : D:\DATA\082411B4\
Data File : SEQ-TUN1.D
Acq On : 24 Aug 2011 2:16 pm
Operator : MEC
Sample : DF0824B1;;;;;11G0602
Misc : ;3;DFTPP;;;;all.sub;
ALS Vial : 1 Sample Multiplier: 1

Quant Time: Aug 25 12:42:42 2011
Quant Method : C:\MSDCHEM\1\METHODS\DFTPP.M
Quant Title : DFTPP EVALUATION
QLast Update : Thu Jun 30 14:07:24 2011
Response via : Initial Calibration



(3) p,p'-DDE

11.930min (+0.000) 0.00 m

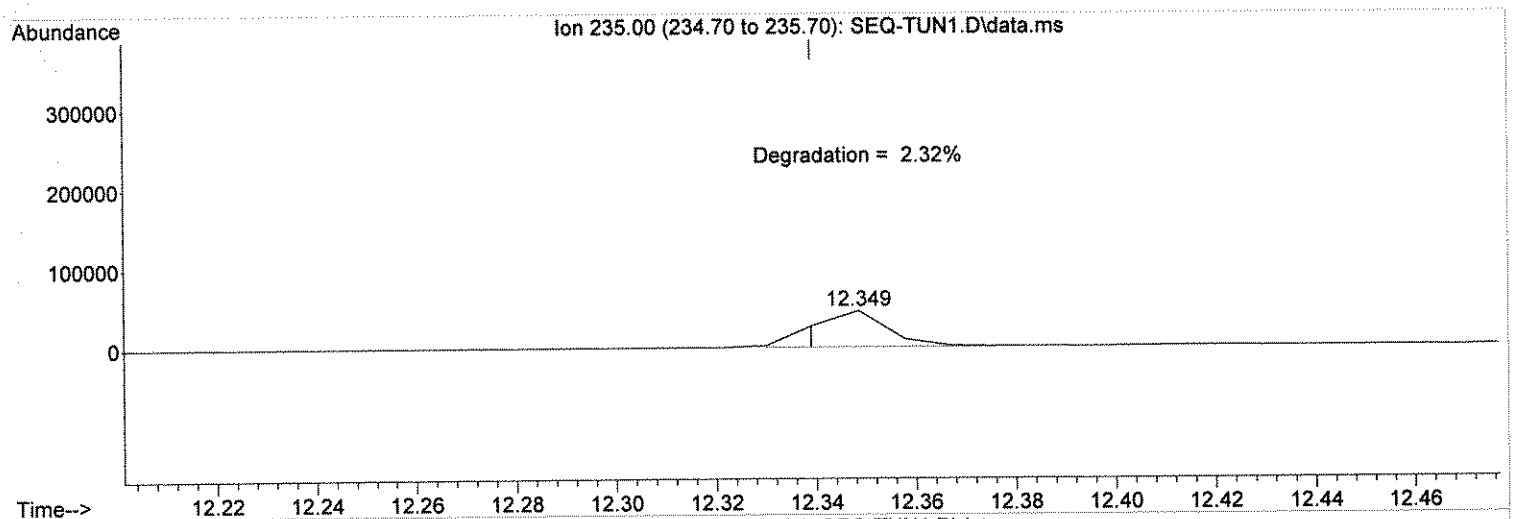
response 6184

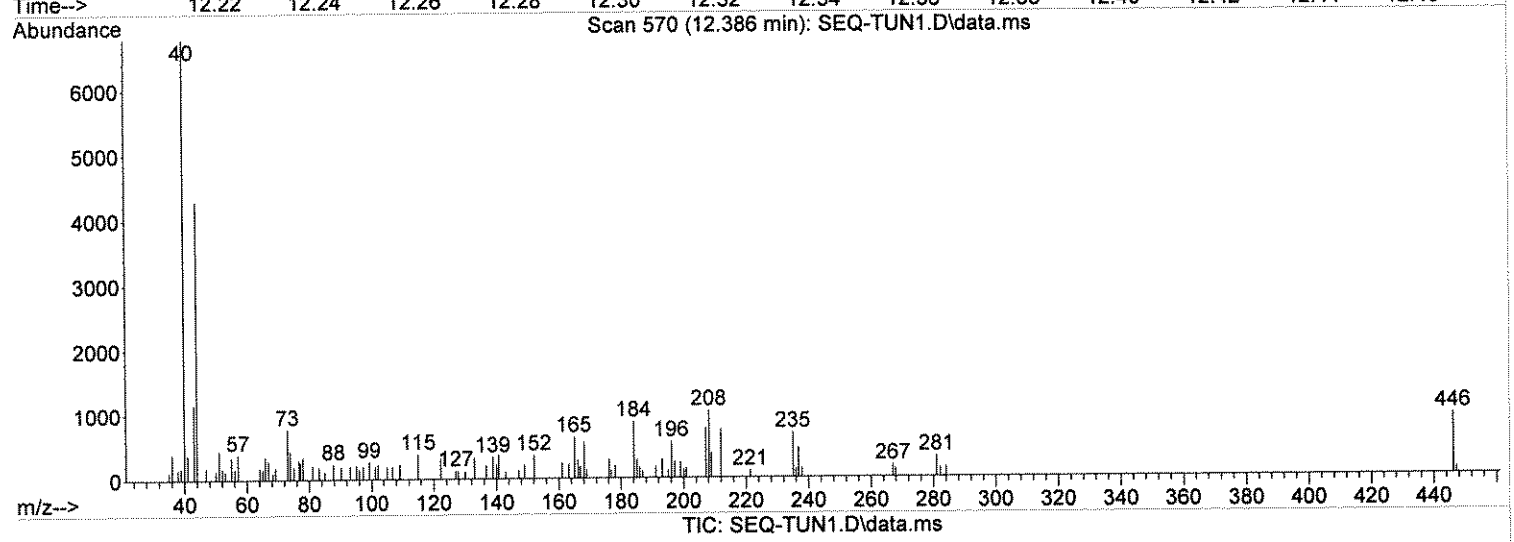
Ion	Exp%	Act%
246.00	100	100
0.00	0.00	0.00
0.00	0.00	0.00
0.00	0.00	0.00

Quantitation Report (Qedit)

Data Path : D:\DATA\082411B4\
Data File : SEQ-TUN1.D
Acq On : 24 Aug 2011 2:16 pm
Operator : MEC
Sample : DF0824B1;;;;;11G0602
Misc : ;3;DFTPP;;;;all.sub;
ALS Vial : 1 Sample Multiplier: 1

Quant Time: Aug 25 12:42:42 2011
Quant Method : C:\MSDCHEM\1\METHODS\DFTPP.M
Quant Title : DFTPP EVALUATION
QLast Update : Thu Jun 30 14:07:24 2011
Response via : Initial Calibration





(4) m,p'-DDD

12.349min (+0.010) 0.00 m

response 46815

Ion	Exp%	Act%
235.00	100	100
0.00	0.00	0.00
0.00	0.00	0.00
0.00	0.00	0.00

Data File: \\ELABNSH05\TARGET\chem\bna4.i\082411B4.b\SEQ-CAL1.D
Report Date: 25-Aug-2011 13:28

Laboratory Name

Data file : \\ELABNSH05\TARGET\chem\bna4.i\082411B4.b\SEQ-CAL1.D
Lab Smp Id: SEQ-CAL1 Client Smp ID: SEQ-CAL1
Inj Date : 24-AUG-2011 14:35 MS Autotune Date: 16-JUN-2011 16:30
Operator : MEC Inst ID: bna4.i
Smp Info : CAL-0.10PPM;;;;;11D0430
Misc Info : ;1;;;1;;pahmisc.sub;
Comment :
Method : \\ELABNSH05\TARGET\chem\bna4.i\082411B4.b\IXBN4LOW.m
Meth Date : 25-Aug-2011 13:28 mcobb Quant Type: ISTD
Cal Date : 24-AUG-2011 14:35 Cal File: SEQ-CAL1.D
Als bottle: 2 Calibration Sample, Level: 1
Dil Factor: 1.00000
Integrator: HP RTE Compound Sublist: pahmisc.sub
Target Version: 4.04
Processing Host: TARGET09_VM

VM 8/29/11

Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	AMOUNTS CAL-AMT (ng/ul)	AMOUNTS ON-COL (ng/ul)
* 102 Phenanthrene-d10	188	10.012	10.012	(1.000)	111232	1.00000	
4 1,4-Dioxane	88	1.906	1.906	(0.190)	3123	0.10000	0.1307
21 N-Nitroso-di-n-propylamine	70	5.104	5.104	(0.510)	4205	0.10000	0.1045
39 Isophorone	82	5.559	5.559	(0.555)	10191	0.10000	0.09356
51 Naphthalene	128	6.108	6.108	(0.610)	19442	0.10000	0.1174
53 Hexachlorobutadiene	225	6.257	6.257	(0.625)	2875	0.10000	0.09315
55 2-Methylnaphthalene	142	6.945	6.945	(0.694)	11099	0.10000	0.1119
56 1-Methylnaphthalene	142	7.056	7.056	(0.705)	10710	0.10000	0.1114
70 Hexachlorocyclopentadiene	237	7.121	7.121	(0.711)	1224	0.10000	0.3885
$ 74 2-Fluorobiphenyl	172	7.391	7.391	(0.738)	10666	0.10000	0.1015
77 Acenaphthylene	152	8.023	8.023	(0.801)	14577	0.10000	0.1012
80 Acenaphthene	153	8.237	8.237	(0.823)	10290	0.10000	0.1042
84 Dibenzofuran	168	8.451	8.451	(0.844)	12345	0.10000	0.1036
88 Fluorene	166	8.869	8.869	(0.886)	8018	0.10000	0.08511
104 Carbazole	167	10.328	10.328	(1.032)	8956	0.10000	0.1012
$ 107 2,4,6-Tribromophenol	330	9.176	9.176	(0.916)	3210	0.20000	0.1667
111 Phenanthrene	178	10.040	10.040	(1.003)	12241	0.10000	0.09457
109 Hexachlorobenzene	284	9.538	9.538	(0.953)	4410	0.10000	0.1107
112 Anthracene	178	10.105	10.105	(1.009)	11859	0.10000	0.09348
116 Fluoranthene	202	11.528	11.528	(1.151)	10498	0.10000	0.08613
134 Pyrene	202	11.844	11.844	(1.183)	13225	0.10000	0.1069
* 154 Perylene-d12	264	16.483	16.483	(1.000)	43404	1.00000	
$ 135 Terphenyl-d14	244	12.104	12.104	(1.209)	6448	0.10000	0.09140
138 Benzo(a)anthracene	228	13.815	13.815	(1.380)	6017	0.10000	0.07760
139 Chrysene	228	13.870	13.870	(1.385)	6624	0.10000	0.08484
140 Bis(2-ethylhexyl)phthalate	149	14.010	14.010	(0.850)	7694	0.10000	0.1074

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Data File: \\ELABNSH05\TARGET\chem\bna4.i\082411B4.b\SEQ-CAL1.D
Report Date: 25-Aug-2011 13:28

Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	AMOUNTS CAL-AMT (ng/ul)	AMOUNTS ON-COL (ng/ul)
155 Di-n-octylphthalate	149	15.274	15.274	(0.927)	9036	0.10000	0.09119
156 Benzo(b)fluoranthene	252	15.804	15.804	(0.959)	4871	0.10000	0.08406
157 Benzo(k)fluoranthene	252	15.850	15.850	(0.962)	5835	0.10000	0.09950
158 Benzo(a)pyrene	252	16.380	16.380	(0.994)	5985	0.10000	0.1225
159 Indeno(1,2,3-cd)pyrene	276	18.342	18.342	(1.113)	3377	0.10000	0.09638
160 Dibenz(a,h)anthracene	278	18.388	18.388	(1.116)	2990	0.10000	0.08696(M)
161 Benzo(g,h,i)perylene	276	18.807	18.807	(1.141)	3029	0.10000	0.08549

QC Flag Legend

M - Compound response manually integrated.

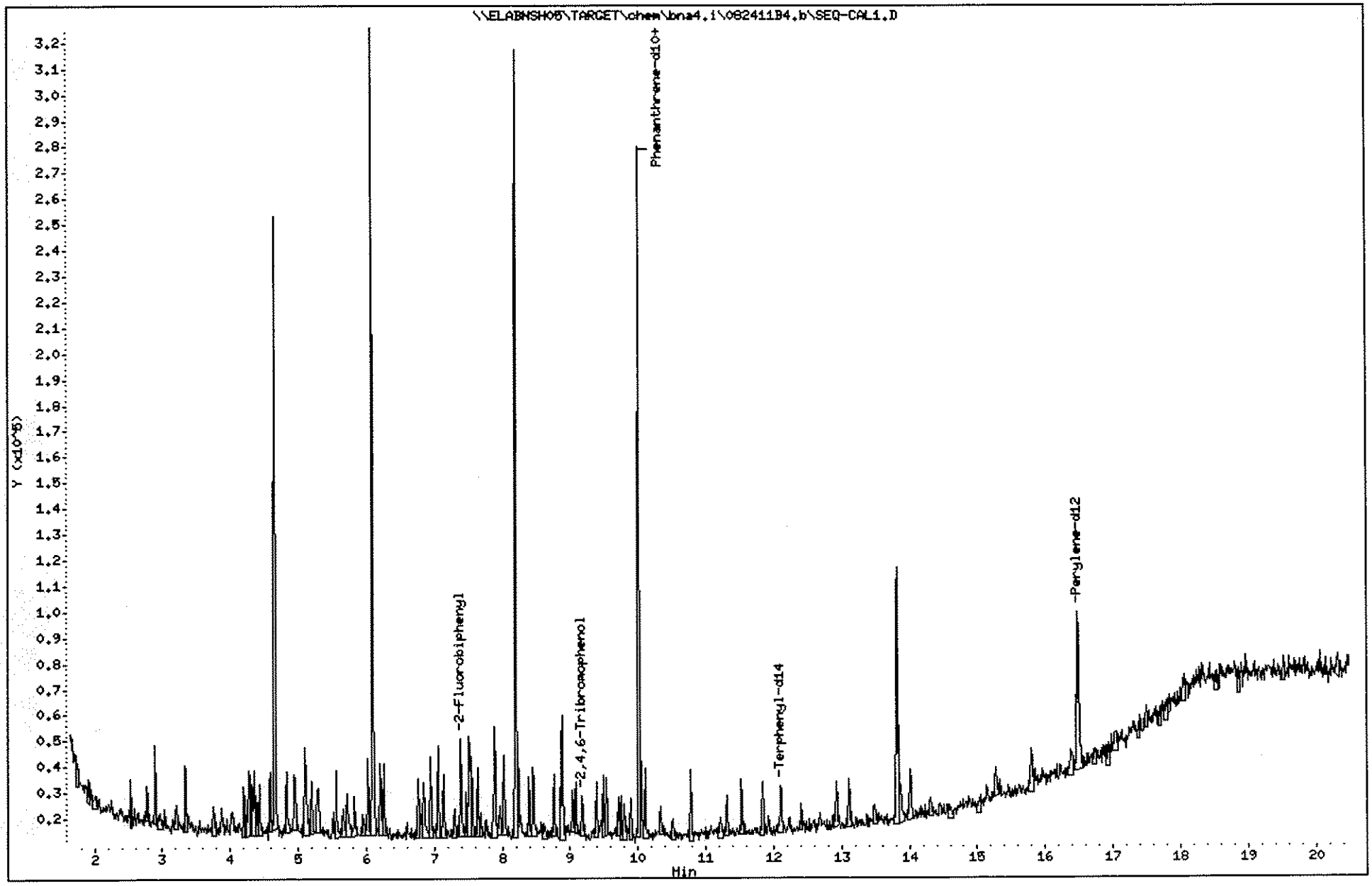
Data File: \\ELABNSHOS\TARGET\chem\bna4.i\082411B4.b\SEQ-CAL1.D
Date : 24-AUG-2011 14:35
Client ID: SEQ-CAL1
Sample Info: CAL-0.10PPM;;;;;11D0430

Instrument: bna4.i

Operator: MEC

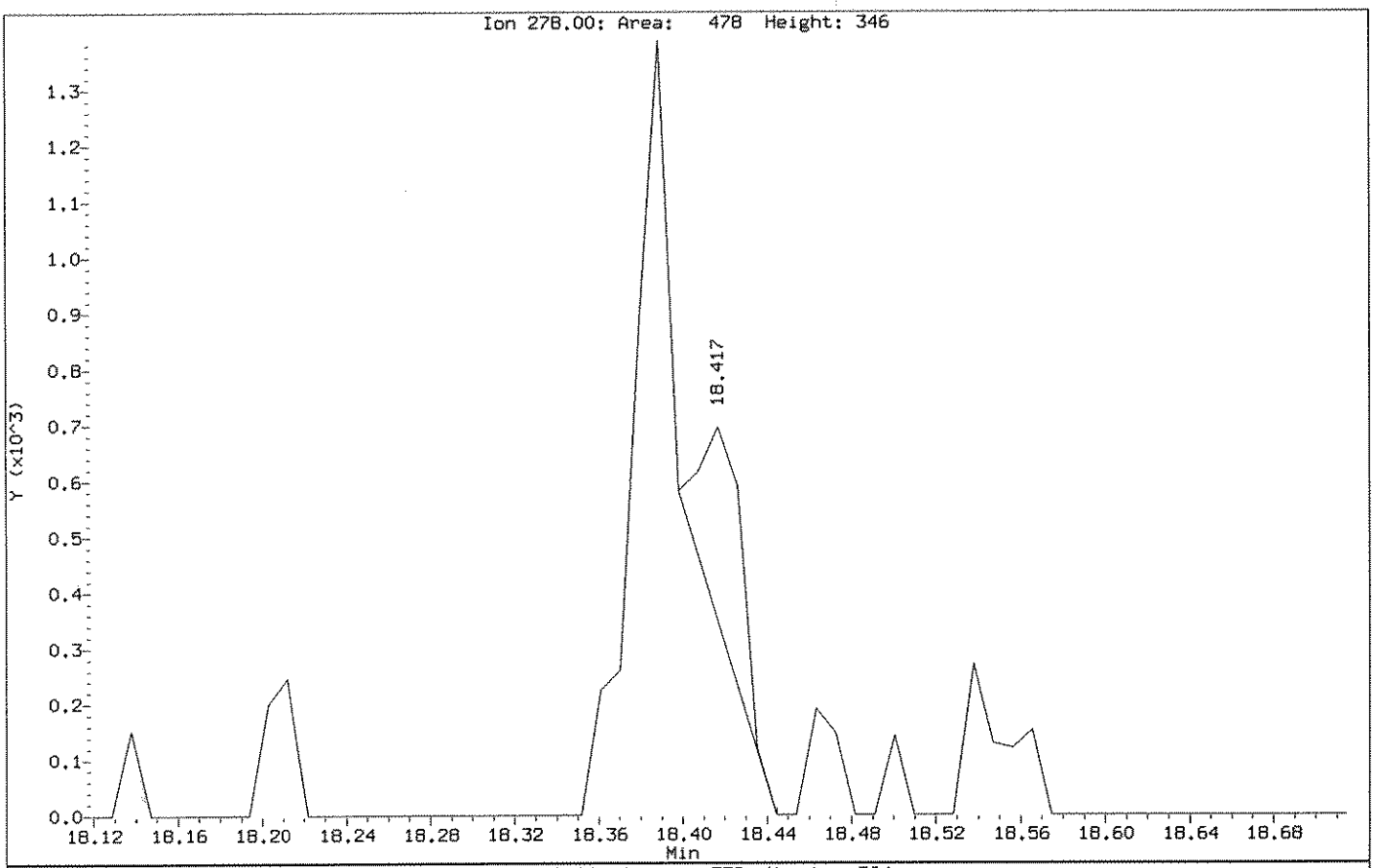
Column phase: fused silica

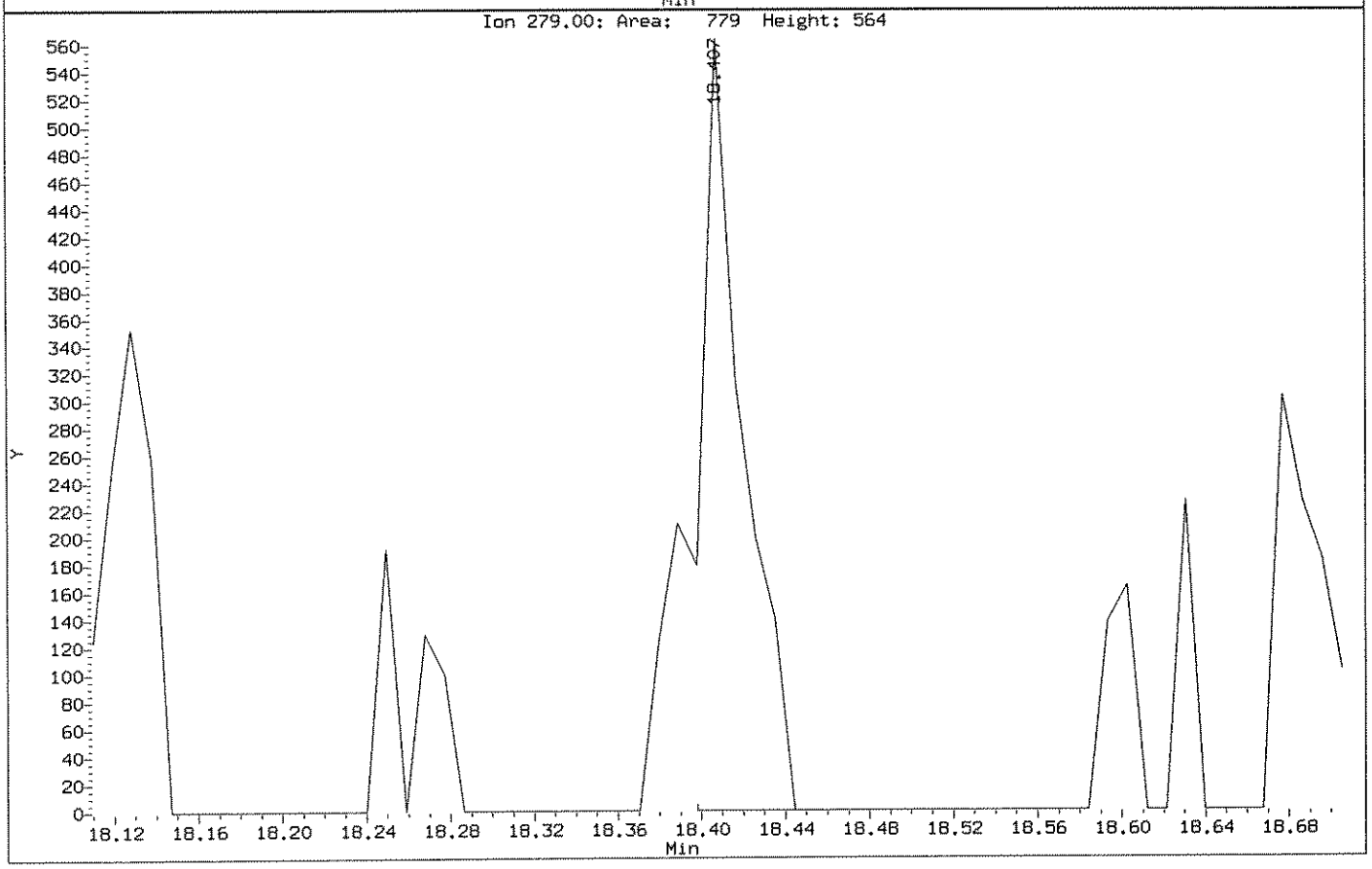
Column diameter: 0.25



Data File: \\ELABNSHO5\TARGET\chem\bna4.i\082411B4.b\SEQ-CAL1.D
Injection Date: 24-AUG-2011 14:35
Instrument: bna4.i
Client Sample ID: SEQ-CAL1

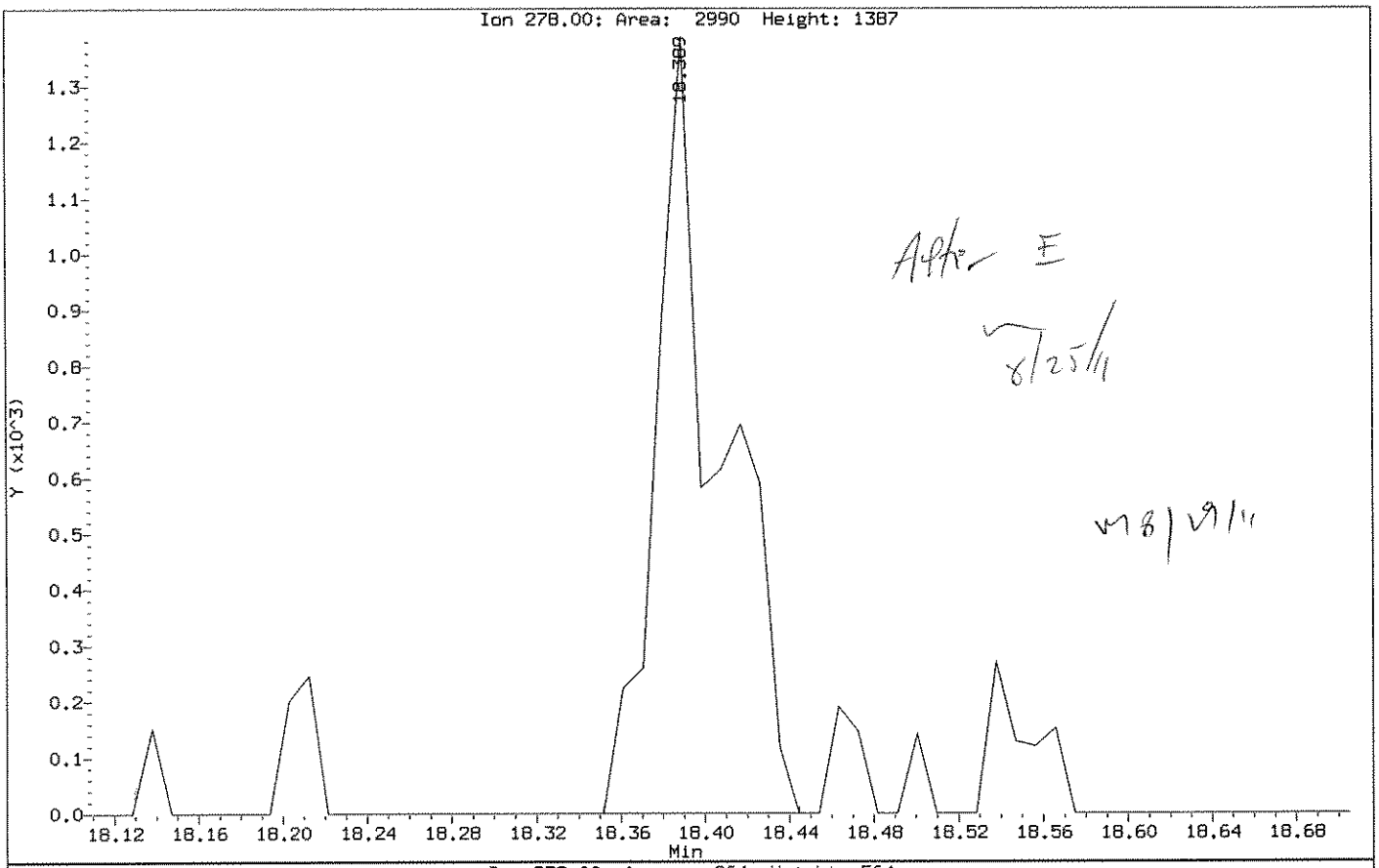
Compound: Dibenz(a,h)anthracene
CAS Number: 53-70-3

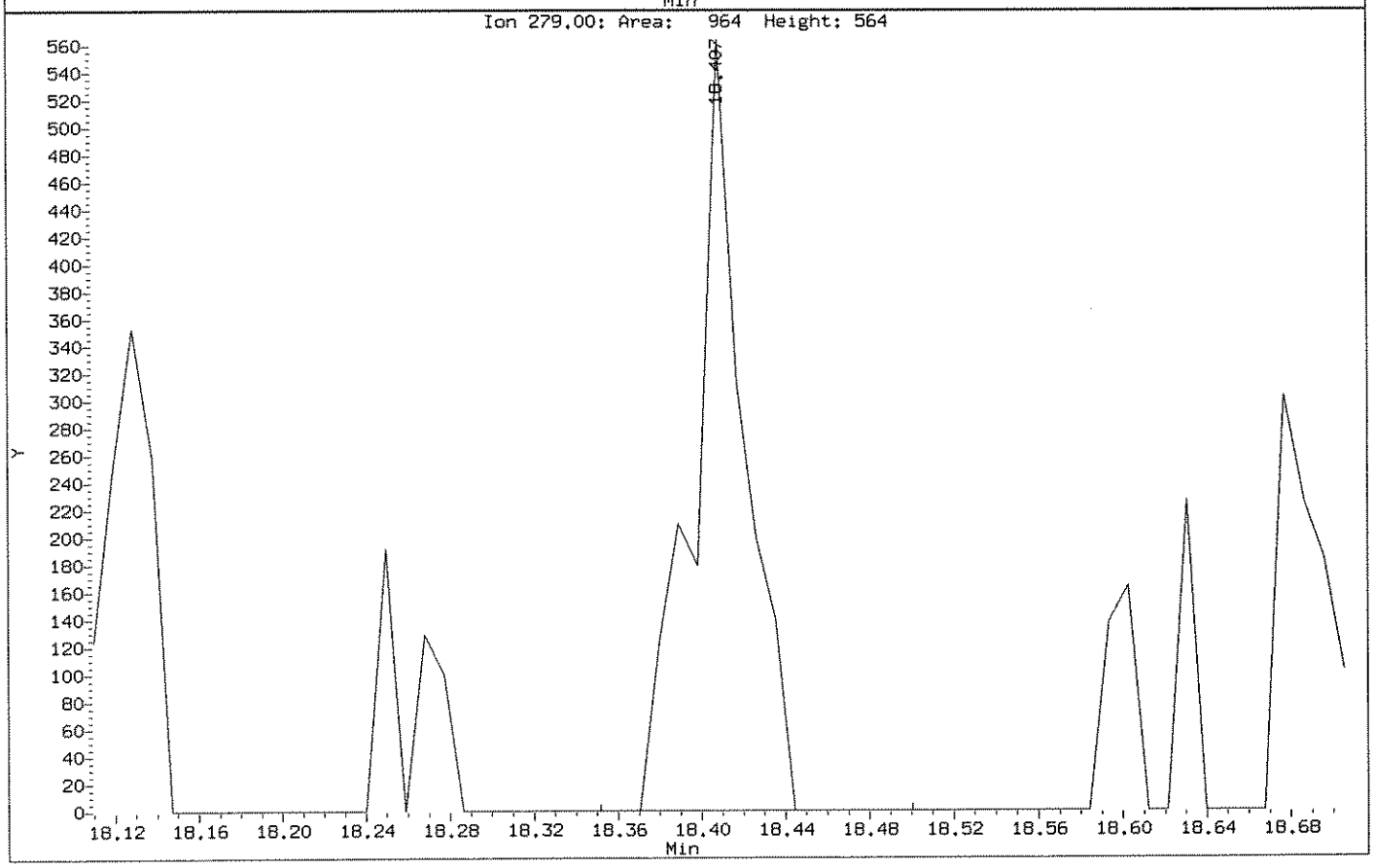




Data File: \\ELABNSHO5\TARGET\chem\bna4.i\082411B4.b\SEQ-CAL1.D
Injection Date: 24-AUG-2011 14:35
Instrument: bna4.i
Client Sample ID: SEQ-CAL1

Compound: Dibenz(a,h)anthracene
CAS Number: 53-70-3





Data File: \\ELABNSH05\TARGET\chem\bna4.i\082411B4.b\SEQ-CAL2.D
Report Date: 25-Aug-2011 13:28

Laboratory Name

Data file : \\ELABNSH05\TARGET\chem\bna4.i\082411B4.b\SEQ-CAL2.D
Lab Smp Id: SEQ-CAL2 Client Smp ID: SEQ-CAL2
Inj Date : 24-AUG-2011 15:05 MS Autotune Date: 16-JUN-2011 16:30
Operator : MEC Inst ID: bna4.i
Smp Info : CAL-0.20PPM;;;;;11C0008
Misc Info : ;1;;;2;;pahmisc.sub;
Comment :
Method : \\ELABNSH05\TARGET\chem\bna4.i\082411B4.b\IXBN4LOW.m
Meth Date : 25-Aug-2011 13:28 mcobb Quant Type: ISTD
Cal Date : 24-AUG-2011 14:35 Cal File: SEQ-CAL1.D
Als bottle: 3 Calibration Sample, Level: 2
Dil Factor: 1.00000
Integrator: HP RTE Compound Sublist: pahmisc.sub
Target Version: 4.04
Processing Host: TARGET09_VM

m 8/29/11

Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	AMOUNTS CAL-AMT (ng/ul)	AMOUNTS ON-COL (ng/ul)
* 102 Phenanthrene-d10	188	10.012	10.012	(1.000)	97574	1.00000	
4 1,4-Dioxane	88	1.906	1.906	(0.190)	6213	0.20000	0.2964
21 N-Nitroso-di-n-propylamine	70	5.095	5.095	(0.509)	6906	0.20000	0.1957
39 Isophorone	82	5.560	5.560	(0.555)	19820	0.20000	0.2074
51 Naphthalene	128	6.108	6.108	(0.610)	31278	0.20000	0.2154
53 Hexachlorobutadiene	225	6.257	6.257	(0.625)	5800	0.20000	0.2142
55 2-Methylnaphthalene	142	6.945	6.945	(0.694)	17395	0.20000	0.1999
56 1-Methylnaphthalene	142	7.056	7.056	(0.705)	17225	0.20000	0.2042
70 Hexachlorocyclopentadiene	237	7.121	7.121	(0.711)	2767	0.20000	0.4500
$ 74 2-Fluorobiphenyl	172	7.391	7.391	(0.738)	19679	0.20000	0.2134
77 Acenaphthylene	152	8.023	8.023	(0.801)	26393	0.20000	0.2088
80 Acenaphthene	153	8.237	8.237	(0.823)	17831	0.20000	0.2058
84 Dibenzofuran	168	8.451	8.451	(0.844)	19709	0.20000	0.1885
88 Fluorene	166	8.869	8.869	(0.886)	15486	0.20000	0.1874
104 Carbazole	167	10.319	10.319	(1.031)	14612	0.20000	0.1882
$ 107 2,4,6-Tribromophenol	330	9.166	9.166	(0.916)	4046	0.40000	0.2395
111 Phenanthrene	178	10.040	10.040	(1.003)	23949	0.20000	0.2109
109 Hexachlorobenzene	284	9.538	9.538	(0.953)	7851	0.20000	0.2247
112 Anthracene	178	10.105	10.105	(1.009)	22146	0.20000	0.1990
116 Fluoranthene	202	11.528	11.528	(1.151)	22331	0.20000	0.2088
134 Pyrene	202	11.835	11.835	(1.182)	19806	0.20000	0.1825
* 154 Perylene-d12	264	16.483	16.483	(1.000)	49638	1.00000	
$ 135 Terphenyl-d14	244	12.104	12.104	(1.209)	13187	0.20000	0.2131
138 Benzo(a)anthracene	228	13.805	13.805	(1.379)	13157	0.20000	0.1934
139 Chrysene	228	13.870	13.870	(1.385)	13143	0.20000	0.1919
140 Bis(2-ethylhexyl)phthalate	149	14.010	14.010	(0.850)	13925	0.20000	0.1699

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Data File: \\ELABNSH05\TARGET\chem\bna4.i\082411B4.b\SEQ-CAL2.D
Report Date: 25-Aug-2011 13:28

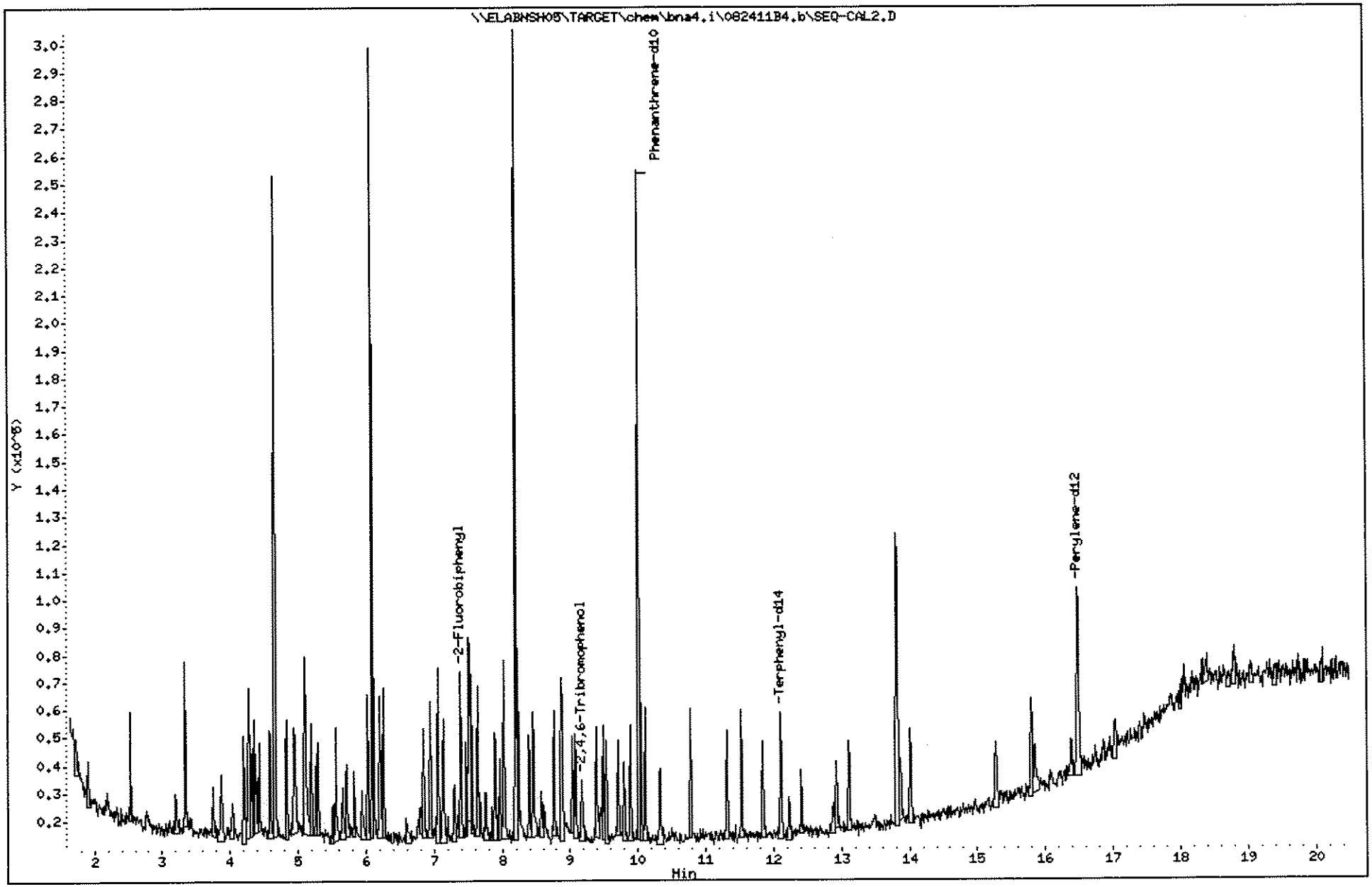
Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	AMOUNTS CAL-AMT (ng/ul)	AMOUNTS ON-COL (ng/ul)
155 Di-n-octylphthalate	149	15.274	15.274	(0.927)	18243	0.20000	0.1610
156 Benzo(b)fluoranthene	252	15.795	15.795	(0.958)	10733	0.20000	0.1620
157 Benzo(k)fluoranthene	252	15.851	15.851	(0.962)	12181	0.20000	0.1816
158 Benzo(a)pyrene	252	16.380	16.380	(0.994)	9950	0.20000	0.1781
159 Indeno(1,2,3-cd)pyrene	276	18.333	18.333	(1.112)	7463	0.20000	0.1862
160 Dibenz(a,h)anthracene	278	18.388	18.388	(1.116)	7249	0.20000	0.1844
161 Benzo(g,h,i)perylene	276	18.807	18.807	(1.141)	7577	0.20000	0.1870

Data File: \\ELABNSH05\TARGET\chem\bna4.i\082411B4.b\SEQ-CAL2.D
Date : 24-AUG-2011 15:05
Client ID: SEQ-CAL2
Sample Info: CAL-0.20PPM;;;;;11C0008

Column phase: fused silica

Instrument: bna4.i

Operator: MEC
Column diameter: 0.25



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Data File: \\ELABNSH05\TARGET\chem\bna4.i\082411B4.b\SEQ-CAL3.D
Report Date: 25-Aug-2011 13:28

Laboratory Name

Data file : \\ELABNSH05\TARGET\chem\bna4.i\082411B4.b\SEQ-CAL3.D
Lab Smp Id: SEQ-CAL3 Client Smp ID: SEQ-CAL3
Inj Date : 24-AUG-2011 15:35 MS Autotune Date: 16-JUN-2011 16:30
Operator : MEC Inst ID: bna4.i
Smp Info : CAL-0.50PPM;;;;;11C0009
Misc Info : ;1;;;3;;pahmisc.sub;
Comment :
Method : \\ELABNSH05\TARGET\chem\bna4.i\082411B4.b\IXBN4LOW.m
Meth Date : 25-Aug-2011 13:28 mcobb Quant Type: ISTD
Cal Date : 24-AUG-2011 14:35 Cal File: SEQ-CAL1.D
Als bottle: 4 Calibration Sample, Level: 3
Dil Factor: 1.00000
Integrator: HP RTE Compound Sublist: pahmisc.sub
Target Version: 4.04
Processing Host: TARGET09_VM

m 8/29/11

Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	AMOUNTS CAL-AMT (ng/ul)	AMOUNTS ON-COL (ng/ul)
* 102 Phenanthrene-d10	188	10.012	10.012	(1.000)	98140	1.00000	
4 1,4-Dioxane	88	1.906	1.906	(0.190)	13293	0.50000	0.6305
21 N-Nitroso-di-n-propylamine	70	5.095	5.095	(0.509)	19019	0.50000	0.5358
39 Isophorone	82	5.559	5.559	(0.555)	51739	0.50000	0.5384
51 Naphthalene	128	6.108	6.108	(0.610)	75139	0.50000	0.5144
53 Hexachlorobutadiene	225	6.257	6.257	(0.625)	14157	0.50000	0.5199
55 2-Methylnaphthalene	142	6.935	6.935	(0.693)	47478	0.50000	0.5425
56 1-Methylnaphthalene	142	7.056	7.056	(0.705)	46124	0.50000	0.5436
70 Hexachlorocyclopentadiene	237	7.121	7.121	(0.711)	6515	0.50000	0.5847
$ 74 2-Fluorobiphenyl	172	7.391	7.391	(0.738)	48322	0.50000	0.5211
77 Acenaphthylene	152	8.023	8.023	(0.801)	62379	0.50000	0.4907
80 Acenaphthene	153	8.237	8.237	(0.823)	45954	0.50000	0.5272
84 Dibenzofuran	168	8.451	8.451	(0.844)	52994	0.50000	0.5040
88 Fluorene	166	8.869	8.869	(0.886)	43716	0.50000	0.5259
104 Carbazole	167	10.319	10.319	(1.031)	35626	0.50000	0.4563
110 Pentachlorophenol	266	9.817	9.817	(0.981)	2160	0.50000	1.251
$ 107 2,4,6-Tribromophenol	330	9.166	9.166	(0.916)	14712	1.00000	0.8659
111 Phenanthrene	178	10.040	10.040	(1.003)	54632	0.50000	0.4784
109 Hexachlorobenzene	284	9.538	9.538	(0.953)	17278	0.50000	0.4916
112 Anthracene	178	10.105	10.105	(1.009)	54043	0.50000	0.4828
116 Fluoranthene	202	11.528	11.528	(1.151)	47143	0.50000	0.4384
134 Pyrene	202	11.834	11.834	(1.182)	47510	0.50000	0.4352
* 154 Perylene-d12	264	16.483	16.483	(1.000)	35794	1.00000	
$ 135 Terphenyl-d14	244	12.104	12.104	(1.209)	26690	0.50000	0.4288
138 Benzo(a)anthracene	228	13.805	13.805	(1.379)	28406	0.50000	0.4152
139 Chrysene	228	13.870	13.870	(1.385)	29160	0.50000	0.4233

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Data File: \\ELABNSH05\TARGET\chem\bna4.i\082411B4.b\SEQ-CAL3.D
Report Date: 25-Aug-2011 13:28

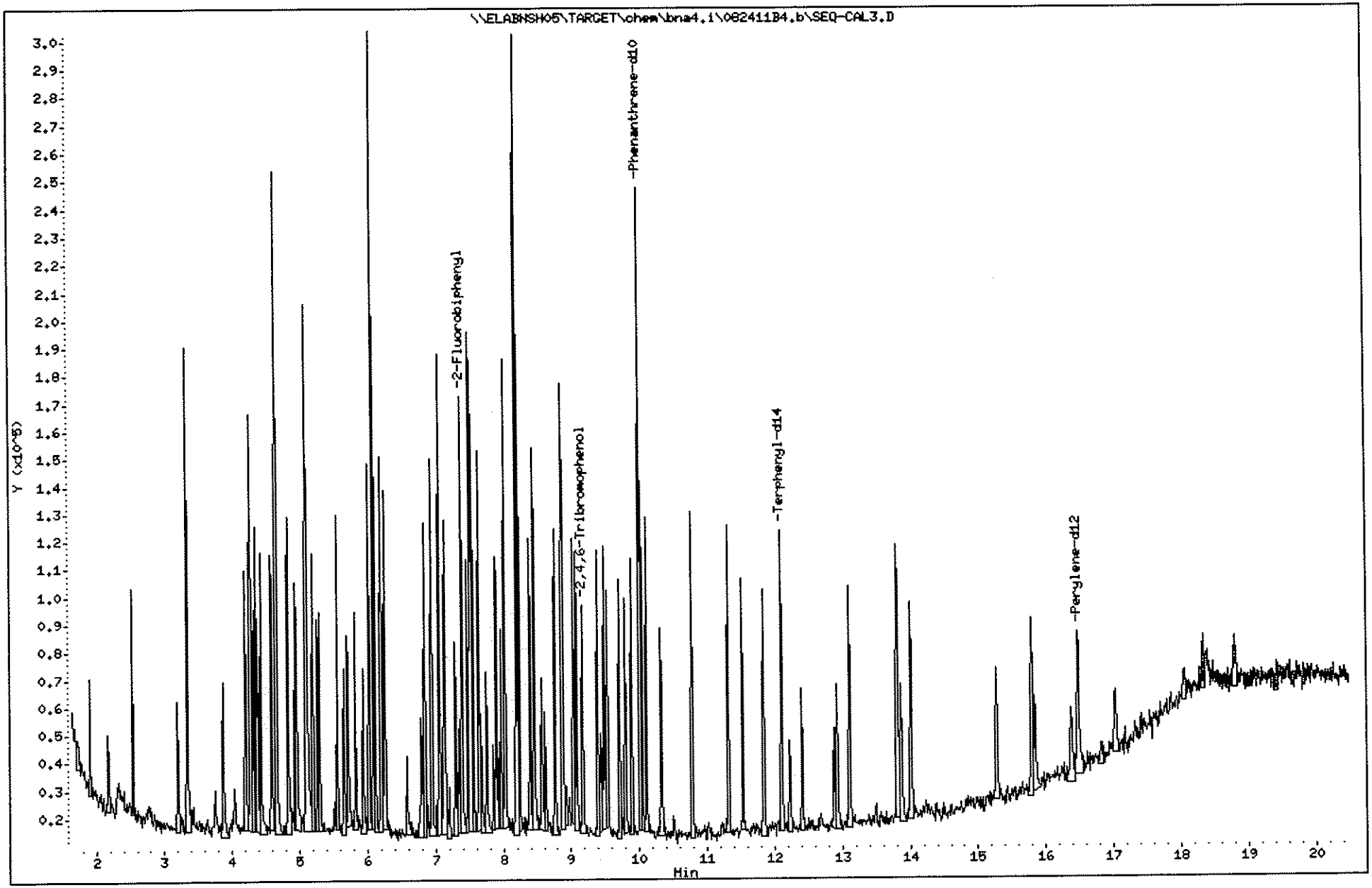
Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	AMOUNTS CAL-AMT (ng/ul)	AMOUNTS ON-COL (ng/ul)
140 Bis(2-ethylhexyl)phthalate	149	14.010	14.010	(0.850)	31255	0.50000	0.5288
155 Di-n-octylphthalate	149	15.274	15.274	(0.927)	42646	0.50000	0.5219
156 Benzo(b)fluoranthene	252	15.795	15.795	(0.958)	22163	0.50000	0.4638
157 Benzo(k)fluoranthene	252	15.841	15.841	(0.961)	23715	0.50000	0.4904
158 Benzo(a)pyrene	252	16.380	16.380	(0.994)	18192	0.50000	0.4516
159 Indeno(1,2,3-cd)pyrene	276	18.342	18.342	(1.113)	13574	0.50000	0.4697
160 Dibenz(a,h)anthracene	278	18.398	18.398	(1.116)	11119	0.50000	0.3921
161 Benzo(g,h,i)perylene	276	18.807	18.807	(1.141)	15475	0.50000	0.5296

Data File: \\ELABNSH05\TARGET\chem\bna4.i\082411B4.b\SEQ-CAL3.D
Date : 24-AUG-2011 15:35
Client ID: SEQ-CAL3
Sample Info: CAL-0.50PPM;;;;;11C0009

Column phase: fused silica

Instrument: bna4.i

Operator: HEC
Column diameter: 0.25



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Data File: \\ELABNSH05\TARGET\chem\bna4.i\082411B4.b\SEQ-CAL4.D
Report Date: 25-Aug-2011 13:28

Laboratory Name

Data file : \\ELABNSH05\TARGET\chem\bna4.i\082411B4.b\SEQ-CAL4.D
Lab Smp Id: SEQ-CAL4 Client Smp ID: SEQ-CAL4
Inj Date : 24-AUG-2011 16:05 MS Autotune Date: 16-JUN-2011 16:30
Operator : MEC Inst ID: bna4.i
Smp Info : CAL-1.00PPM;;;;;11C0010
Misc Info : ;1;;;4;;pahmisc.sub;
Comment :
Method : \\ELABNSH05\TARGET\chem\bna4.i\082411B4.b\IXBN4LOW.m
Meth Date : 25-Aug-2011 13:28 mcobb Quant Type: ISTD
Cal Date : 24-AUG-2011 14:35 Cal File: SEQ-CAL1.D
Als bottle: 5 Calibration Sample, Level: 4
Dil Factor: 1.00000
Integrator: HP RTE Compound Sublist: pahmisc.sub
Target Version: 4.04
Processing Host: TARGET09_VM

m 8/29/11

Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	AMOUNTS CAL-AMT (ng/ul)	AMOUNTS ON-COL (ng/ul)
* 102 Phenanthrene-d10	188	10.012	10.012	(1.000)	105583	1.00000	
4 1,4-Dioxane	88	1.897	1.897	(0.189)	22905	1.00000	1.010
21 N-Nitroso-di-n-propylamine	70	5.095	5.095	(0.509)	37491	1.00000	0.9817
39 Isophorone	82	5.559	5.559	(0.555)	104965	1.00000	1.015
51 Naphthalene	128	6.108	6.108	(0.610)	152293	1.00000	0.9690
53 Hexachlorobutadiene	225	6.257	6.257	(0.625)	31586	1.00000	1.078
55 2-Methylnaphthalene	142	6.935	6.935	(0.693)	91533	1.00000	0.9722
56 1-Methylnaphthalene	142	7.056	7.056	(0.705)	87296	1.00000	0.9564
70 Hexachlorocyclopentadiene	237	7.121	7.121	(0.711)	18969	1.00000	0.9862
$ 74 2-Fluorobiphenyl	172	7.391	7.391	(0.738)	98604	1.00000	0.9883
77 Acenaphthylene	152	8.023	8.023	(0.801)	136301	1.00000	0.9966
80 Acenaphthene	153	8.237	8.237	(0.823)	88585	1.00000	0.9447
84 Dibenzofuran	168	8.451	8.451	(0.844)	115672	1.00000	1.023
88 Fluorene	166	8.869	8.869	(0.886)	90423	1.00000	1.011
104 Carbazole	167	10.319	10.319	(1.031)	96074	1.00000	1.144
110 Pentachlorophenol	266	9.789	9.789	(0.978)	7807	1.00000	1.565
$ 107 2,4,6-Tribromophenol	330	9.166	9.166	(0.916)	33266	2.00000	1.820
111 Phenanthrene	178	10.040	10.040	(1.003)	124594	1.00000	1.014
109 Hexachlorobenzene	284	9.538	9.538	(0.953)	39380	1.00000	1.042
112 Anthracene	178	10.105	10.105	(1.009)	116384	1.00000	0.9665
116 Fluoranthene	202	11.528	11.528	(1.151)	121940	1.00000	1.054
134 Pyrene	202	11.834	11.834	(1.182)	120578	1.00000	1.027
* 154 Perylene-d12	264	16.483	16.483	(1.000)	58058	1.00000	
$ 135 Terphenyl-d14	244	12.104	12.104	(1.209)	64853	1.00000	0.9684
138 Benzo(a)anthracene	228	13.805	13.805	(1.379)	76875	1.00000	1.044
139 Chrysene	228	13.870	13.870	(1.385)	80132	1.00000	1.081

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Data File: \\ELABNSH05\TARGET\chem\bna4.i\082411B4.b\SEQ-CAL4.D
Report Date: 25-Aug-2011 13:28

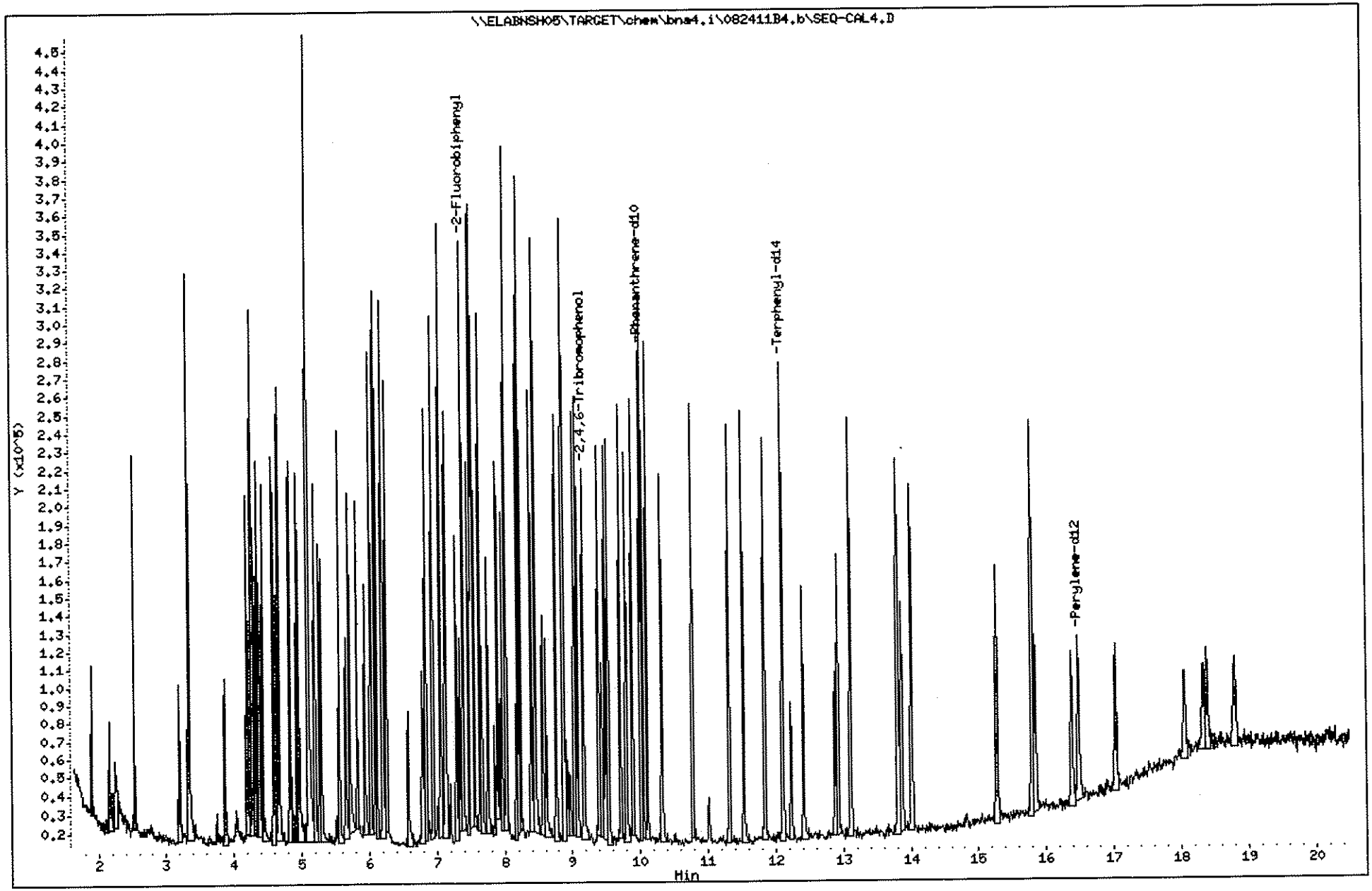
Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	AMOUNTS CAL-AMT (ng/ul)	AMOUNTS ON-COL (ng/ul)
140 Bis(2-ethylhexyl)phthalate	149	14.010	14.010	(0.850)	86632	1.00000	0.9037
155 Di-n-octylphthalate	149	15.274	15.274	(0.927)	117460	1.00000	0.8862
156 Benzo(b)fluoranthene	252	15.795	15.795	(0.958)	78235	1.00000	1.009
157 Benzo(k)fluoranthene	252	15.841	15.841	(0.961)	71789	1.00000	0.9152
158 Benzo(a)pyrene	252	16.380	16.380	(0.994)	59179	1.00000	0.9057
159 Indeno(1,2,3-cd)pyrene	276	18.323	18.323	(1.112)	42953	1.00000	0.9164
160 Dibenz(a,h)anthracene	278	18.379	18.379	(1.115)	44151	1.00000	0.9600
161 Benzo(g,h,i)perylene	276	18.797	18.797	(1.140)	46224	1.00000	0.9753

Data File: \\ELABNSH05\TARGET\chem\bna4.i\082411B4.b\SEQ-CAL4.D
Date : 24-AUG-2011 16:05
Client ID: SEQ-CAL4
Sample Info: CAL-1.00PPM;;;;;11C0010

Column phase: fused silica

Instrument: bna4.i

Operator: HEC
Column diameter: 0.25



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Data File: \\ELABNSH05\TARGET\chem\bna4.i\082411B4.b\SEQ-CAL5.D
Report Date: 25-Aug-2011 13:28

Laboratory Name

Data file : \\ELABNSH05\TARGET\chem\bna4.i\082411B4.b\SEQ-CAL5.D
Lab Smp Id: SEQ-CAL5 Client Smp ID: SEQ-CAL5
Inj Date : 24-AUG-2011 16:35 MS Autotune Date: 16-JUN-2011 16:30
Operator : MEC Inst ID: bna4.i
Smp Info : CAL-5.00PPM;;;;;11C0011
Misc Info : ;1;;;5;;pahmisc.sub;
Comment :
Method : \\ELABNSH05\TARGET\chem\bna4.i\082411B4.b\IXBN4LOW.m
Meth Date : 25-Aug-2011 13:28 mcobb Quant Type: ISTD
Cal Date : 24-AUG-2011 14:35 Cal File: SEQ-CAL1.D
Als bottle: 6 Calibration Sample, Level: 5
Dil Factor: 1.00000
Integrator: HP RTE Compound Sublist: pahmisc.sub
Target Version: 4.04
Processing Host: TARGET09_VM

m 8/29/11

Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	AMOUNTS CAL-AMT (ng/ul)	AMOUNTS ON-COL (ng/ul)
* 102 Phenanthrene-d10	188	10.012	10.012	(1.000)	99917	1.00000	
4 1,4-Dioxane	88	1.897	1.897	(0.189)	113082	5.00000	5.268
21 N-Nitroso-di-n-propylamine	70	5.095	5.095	(0.509)	193636	5.00000	5.358
39 Isophorone	82	5.559	5.559	(0.555)	529010	5.00000	5.407
51 Naphthalene	128	6.108	6.108	(0.610)	765613	5.00000	5.148
53 Hexachlorobutadiene	225	6.257	6.257	(0.625)	143563	5.00000	5.178
55 2-Methylnaphthalene	142	6.935	6.935	(0.693)	454657	5.00000	5.103
56 1-Methylnaphthalene	142	7.056	7.056	(0.705)	446269	5.00000	5.166
70 Hexachlorocyclopentadiene	237	7.121	7.121	(0.711)	120951	5.00000	4.640
$ 74 2-Fluorobiphenyl	172	7.391	7.391	(0.738)	495593	5.00000	5.249
77 Acenaphthylene	152	8.023	8.023	(0.801)	692559	5.00000	5.351
80 Acenaphthene	153	8.237	8.237	(0.823)	463081	5.00000	5.218
84 Dibenzofuran	168	8.451	8.451	(0.844)	559239	5.00000	5.224
88 Fluorene	166	8.869	8.869	(0.886)	464818	5.00000	5.492
104 Carbazole	167	10.319	10.319	(1.031)	417489	5.00000	5.252
110 Pentachlorophenol	266	9.789	9.789	(0.978)	56998	5.00000	4.560
$ 107 2,4,6-Tribromophenol	330	9.166	9.166	(0.916)	181934	10.0000	10.52
111 Phenanthrene	178	10.040	10.040	(1.003)	593919	5.00000	5.108
109 Hexachlorobenzene	284	9.538	9.538	(0.953)	178190	5.00000	4.980
112 Anthracene	178	10.105	10.105	(1.009)	593685	5.00000	5.210
116 Fluoranthene	202	11.528	11.528	(1.151)	560570	5.00000	5.120
134 Pyrene	202	11.834	11.834	(1.182)	566729	5.00000	5.099
* 154 Perylene-d12	264	16.483	16.483	(1.000)	43447	1.00000	
$ 135 Terphenyl-d14	244	12.104	12.104	(1.209)	306379	5.00000	4.835
138 Benzo(a)anthracene	228	13.805	13.805	(1.379)	329417	5.00000	4.730
139 Chrysene	228	13.870	13.870	(1.385)	329867	5.00000	4.704

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Data File: \\ELABNSH05\TARGET\chem\bna4.i\082411B4.b\SEQ-CAL5.D
Report Date: 25-Aug-2011 13:28

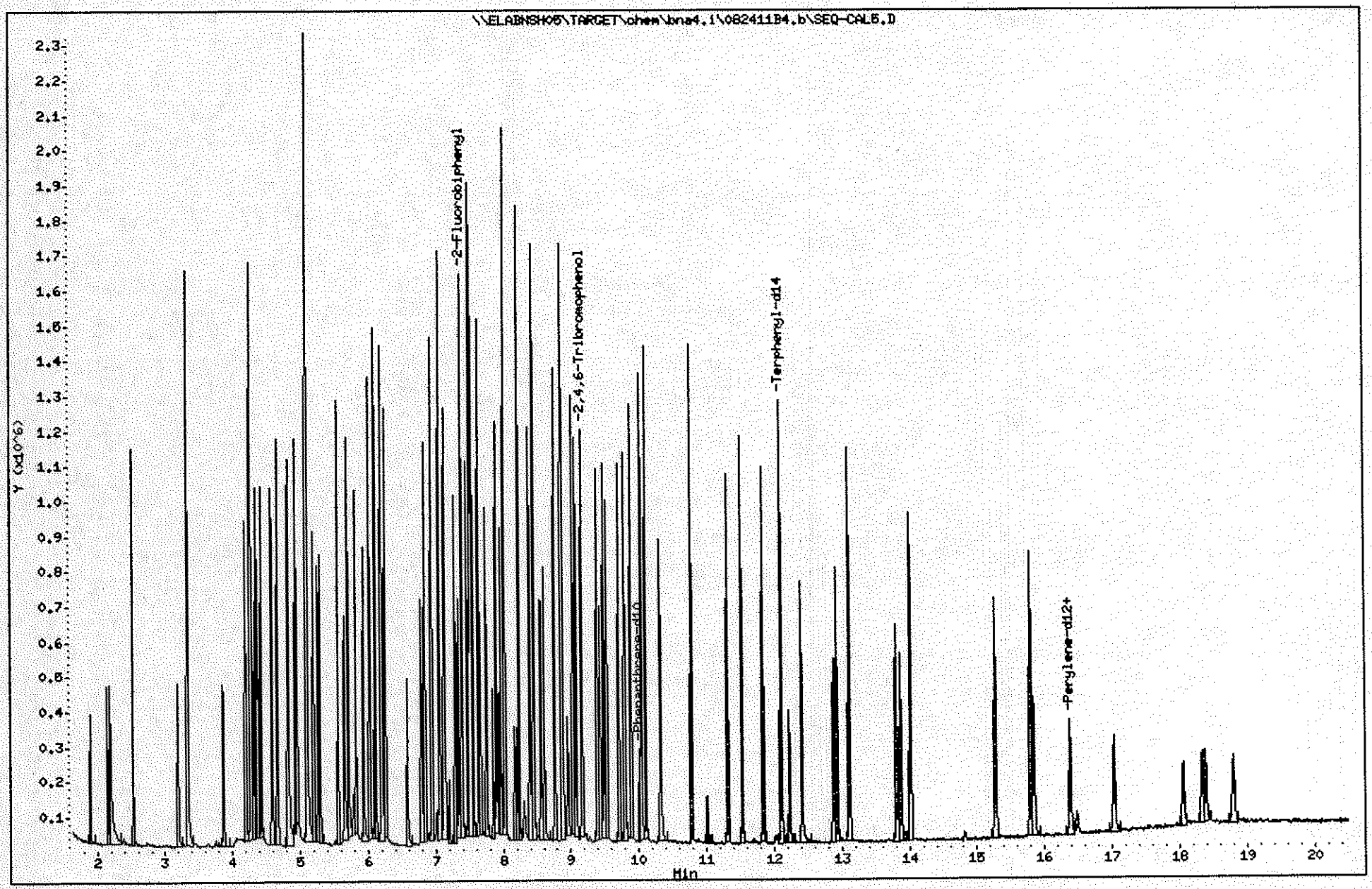
Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	AMOUNTS CAL-AMT (ng/ul)	AMOUNTS ON-COL (ng/ul)
140 Bis(2-ethylhexyl)phthalate	149	14.010	14.010	(0.850)	398523	5.00000	5.555
155 Di-n-octylphthalate	149	15.274	15.274	(0.927)	539706	5.00000	5.441
156 Benzo(b)fluoranthene	252	15.795	15.795	(0.958)	304297	5.00000	5.246
157 Benzo(k)fluoranthene	252	15.850	15.850	(0.962)	292764	5.00000	4.987
158 Benzo(a)pyrene	252	16.380	16.380	(0.994)	233649	5.00000	4.779
159 Indeno(1,2,3-cd)pyrene	276	18.333	18.333	(1.112)	168577	5.00000	4.806
160 Dibenz(a,h)anthracene	278	18.388	18.388	(1.116)	184892	5.00000	5.372
161 Benzo(g,h,i)perylene	276	18.797	18.797	(1.140)	177755	5.00000	5.012

Data File: \\ELABNSHO5\TARGET\ohem\bna4.i\082411B4.b\SEQ-CAL5.D
Date : 24-AUG-2011 16:35
Client ID: SEQ-CAL5
Sample Info: CAL-5.00PPM;;;;;11C0011

Column phase: fused silica

Instrument: bna4.i

Operator: HEC
Column diameter: 0.25



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Data File: \\ELABNSH05\TARGET\chem\bna4.i\082411B4.b\SEQ-CAL6.D
Report Date: 25-Aug-2011 13:28

Laboratory Name

Data file : \\ELABNSH05\TARGET\chem\bna4.i\082411B4.b\SEQ-CAL6.D
Lab Smp Id: SEQ-CAL6 Client Smp ID: SEQ-CAL6
Inj Date : 24-AUG-2011 17:05 MS Autotune Date: 16-JUN-2011 16:30
Operator : MEC Inst ID: bna4.i
Smp Info : CAL-10.0PPM;;;;;11C0012
Misc Info : ;1;;;6;;pahmisc.sub;
Comment :
Method : \\ELABNSH05\TARGET\chem\bna4.i\082411B4.b\IXBN4LOW.m
Meth Date : 25-Aug-2011 13:28 mcobb Quant Type: ISTD
Cal Date : 24-AUG-2011 14:35 Cal File: SEQ-CAL1.D
Als bottle: 7 Calibration Sample, Level: 6
Dil Factor: 1.00000
Integrator: HP RTE Compound Sublist: pahmisc.sub
Target Version: 4.04
Processing Host: TARGET09_VM

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Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	AMOUNTS CAL-AMT (ng/ul)	AMOUNTS ON-COL (ng/ul)
* 102 Phenanthrene-d10	188	10.012	10.012	(1.000)	125561	1.00000	
4 1,4-Dioxane	88	1.897	1.897	(0.189)	239957	10.0000	8.896
21 N-Nitroso-di-n-propylamine	70	5.104	5.104	(0.510)	424408	10.0000	9.345
39 Isophorone	82	5.559	5.559	(0.555)	1153122	10.0000	9.378
51 Naphthalene	128	6.117	6.117	(0.611)	1667576	10.0000	8.922
53 Hexachlorobutadiene	225	6.257	6.257	(0.625)	325030	10.0000	9.329
55 2-Methylnaphthalene	142	6.944	6.944	(0.694)	994081	10.0000	8.878
56 1-Methylnaphthalene	142	7.056	7.056	(0.705)	998049	10.0000	9.194
70 Hexachlorocyclopentadiene	237	7.121	7.121	(0.711)	311958	10.0000	9.154
$ 74 2-Fluorobiphenyl	172	7.391	7.391	(0.738)	1109816	10.0000	9.354
77 Acenaphthylene	152	8.032	8.032	(0.802)	1563141	10.0000	9.611
80 Acenaphthene	153	8.237	8.237	(0.823)	1053907	10.0000	9.451
84 Dibenzofuran	168	8.450	8.450	(0.844)	1304302	10.0000	9.696
88 Fluorene	166	8.869	8.869	(0.886)	1055803	10.0000	9.928
104 Carbazole	167	10.319	10.319	(1.031)	939209	10.0000	9.402
110 Pentachlorophenol	266	9.789	9.789	(0.978)	176553	10.0000	9.558
$ 107 2,4,6-Tribromophenol	330	9.166	9.166	(0.916)	441040	20.0000	20.29
111 Phenanthrene	178	10.049	10.049	(1.004)	1442441	10.0000	9.872
109 Hexachlorobenzene	284	9.538	9.538	(0.953)	409846	10.0000	9.115
112 Anthracene	178	10.105	10.105	(1.009)	1442092	10.0000	10.07
116 Fluoranthene	202	11.528	11.528	(1.151)	1461759	10.0000	10.62
134 Pyrene	202	11.834	11.834	(1.182)	1453421	10.0000	10.40
* 154 Perylene-d12	264	16.483	16.483	(1.000)	67079	1.00000	
$ 135 Terphenyl-d14	244	12.104	12.104	(1.209)	859371	10.0000	10.79
138 Benzo(a)anthracene	228	13.805	13.805	(1.379)	1002973	10.0000	11.46
139 Chrysene	228	13.870	13.870	(1.385)	1014775	10.0000	11.51

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Data File: \\ELABNSH05\TARGET\chem\bna4.i\082411B4.b\SEQ-CAL6.D
Report Date: 25-Aug-2011 13:28

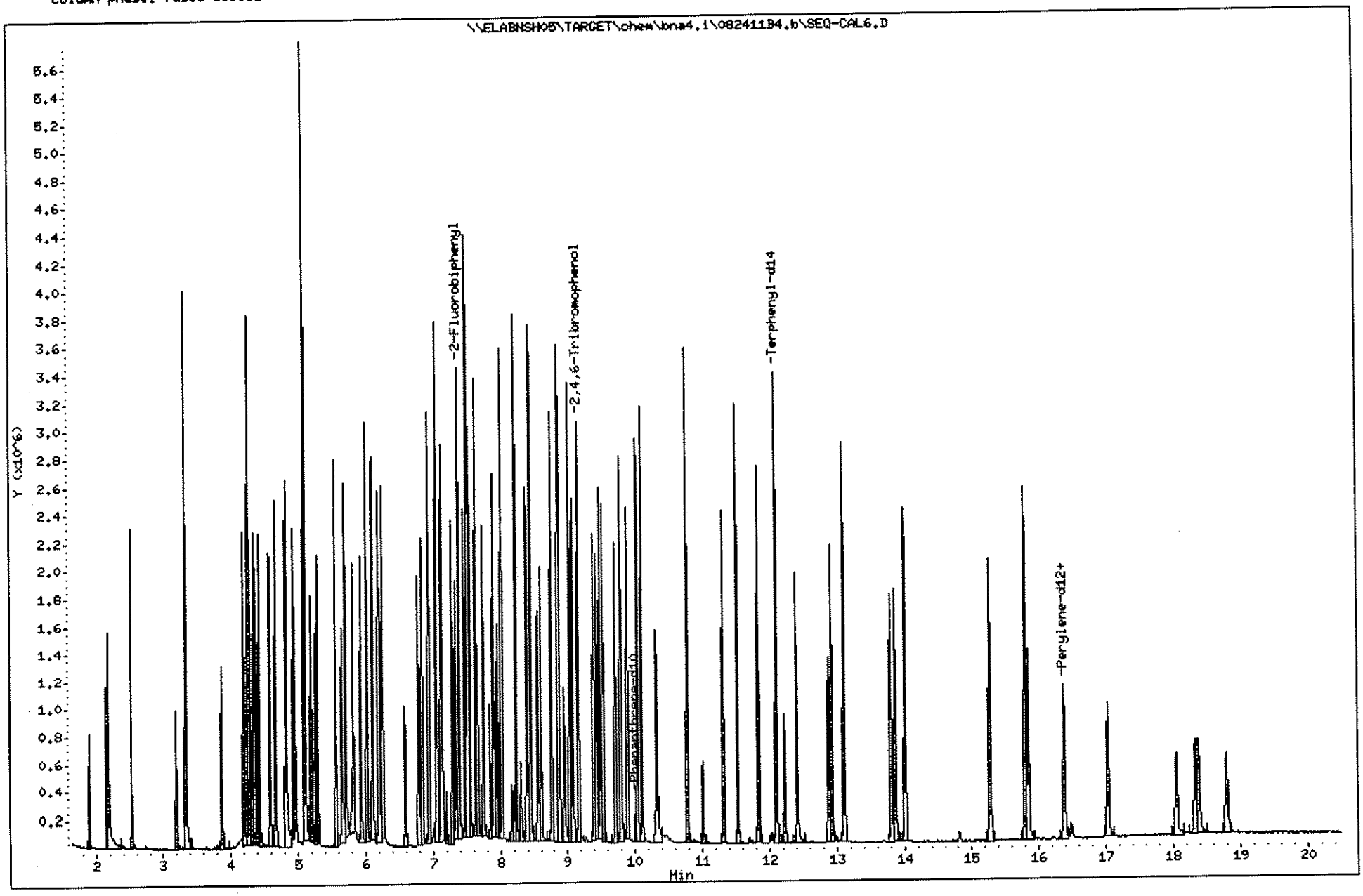
Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	AMOUNTS CAL-AMT (ng/ul)	AMOUNTS ON-COL (ng/ul)
140 Bis(2-ethylhexyl)phthalate	149	14.010	14.010	(0.850)	1058807	10.0000	9.560
155 Di-n-octylphthalate	149	15.274	15.274	(0.927)	1599823	10.0000	10.45
156 Benzo(b)fluoranthene	252	15.795	15.795	(0.958)	964307	10.0000	10.77
157 Benzo(k)fluoranthene	252	15.850	15.850	(0.962)	970208	10.0000	10.70
158 Benzo(a)pyrene	252	16.380	16.380	(0.994)	756523	10.0000	10.02
159 Indeno(1,2,3-cd)pyrene	276	18.333	18.333	(1.112)	551031	10.0000	10.18
160 Dibenz(a,h)anthracene	278	18.388	18.388	(1.116)	548947	10.0000	10.33
161 Benzo(g,h,i)perylene	276	18.797	18.797	(1.140)	533592	10.0000	9.744

Data File: \\ELABNSH05\TARGET\chem\bna4.i\082411B4.b\SEQ-CAL6.D
Date : 24-AUG-2011 17:05
Client ID: SEQ-CAL6
Sample Info: CAL-10.0PPM;;;;;11C0012

Instrument: bna4.i

Operator: HEC
Column diameter: 0.25

Column phase: fused silica



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Data File: \\ELABNSH05\TARGET\chem\bna4.i\082411B4.b\SEQ-CAL7.D
Report Date: 25-Aug-2011 13:29

Laboratory Name

Data file : \\ELABNSH05\TARGET\chem\bna4.i\082411B4.b\SEQ-CAL7.D
Lab Smp Id: SEQ-CAL7 Client Smp ID: SEQ-CAL7
Inj Date : 24-AUG-2011 17:34 MS Autotune Date: 16-JUN-2011 16:30
Operator : MEC Inst ID: bna4.i
Smp Info : CAL-20.0PPM;;;;;11C0013
Misc Info : ;1;;;7;;pahmisc.sub;
Comment :
Method : \\ELABNSH05\TARGET\chem\bna4.i\082411B4.b\IXBN4LOW.m
Meth Date : 25-Aug-2011 13:28 mcobb Quant Type: ISTD
Cal Date : 24-AUG-2011 14:35 Cal File: SEQ-CAL1.D
Als bottle: 8 Calibration Sample, Level: 7
Dil Factor: 1.00000
Integrator: HP RTE Compound Sublist: pahmisc.sub
Target Version: 4.04
Processing Host: TARGET09_VM

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Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	AMOUNTS CAL-AMT (ng/ul)	AMOUNTS ON-COL (ng/ul)
* 102 Phenanthrene-d10	188	10.022	10.022	(1.000)	118485	1.00000	
4 1,4-Dioxane	88	1.897	1.897	(0.189)	468770	20.0000	18.42
21 N-Nitroso-di-n-propylamine	70	5.104	5.104	(0.509)	850593	20.0000	19.85
39 Isophorone	82	5.569	5.569	(0.556)	2316990	20.0000	19.97
51 Naphthalene	128	6.117	6.117	(0.610)	3328671	20.0000	18.87
53 Hexachlorobutadiene	225	6.257	6.257	(0.624)	653525	20.0000	19.88
55 2-Methylnaphthalene	142	6.945	6.945	(0.693)	2084287	20.0000	19.73
56 1-Methylnaphthalene	142	7.056	7.056	(0.704)	1988442	20.0000	19.41
70 Hexachlorocyclopentadiene	237	7.130	7.130	(0.712)	680583	20.0000	20.71
$ 74 2-Fluorobiphenyl	172	7.400	7.400	(0.738)	2210113	20.0000	19.74
77 Acenaphthylene	152	8.032	8.032	(0.801)	3074763	20.0000	20.03
80 Acenaphthene	153	8.246	8.246	(0.823)	2081751	20.0000	19.78
84 Dibenzofuran	168	8.460	8.460	(0.844)	2559577	20.0000	20.16
88 Fluorene	166	8.878	8.878	(0.886)	2098021	20.0000	20.91
104 Carbazole	167	10.319	10.319	(1.030)	1263107	20.0000	13.40
110 Pentachlorophenol	266	9.799	9.799	(0.978)	384306	20.0000	20.35
$ 107 2,4,6-Tribromophenol	330	9.176	9.176	(0.916)	902297	40.0000	43.99
111 Phenanthrene	178	10.050	10.050	(1.003)	2825791	20.0000	20.50
109 Hexachlorobenzene	284	9.538	9.538	(0.952)	798879	20.0000	18.83
112 Anthracene	178	10.115	10.115	(1.009)	2856371	20.0000	21.14
116 Fluoranthene	202	11.528	11.528	(1.150)	2682012	20.0000	20.66
134 Pyrene	202	11.844	11.844	(1.182)	2735218	20.0000	20.75
* 154 Perylene-d12	264	16.483	16.483	(1.000)	53744	1.00000	
$ 135 Terphenyl-d14	244	12.104	12.104	(1.208)	1633762	20.0000	21.74
138 Benzo(a)anthracene	228	13.815	13.815	(1.378)	1857787	20.0000	22.49
139 Chrysene	228	13.870	13.870	(1.384)	1773803	20.0000	21.33

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Data File: \\ELABNSH05\TARGET\chem\bna4.i\082411B4.b\SEQ-CAL7.D
Report Date: 25-Aug-2011 13:29

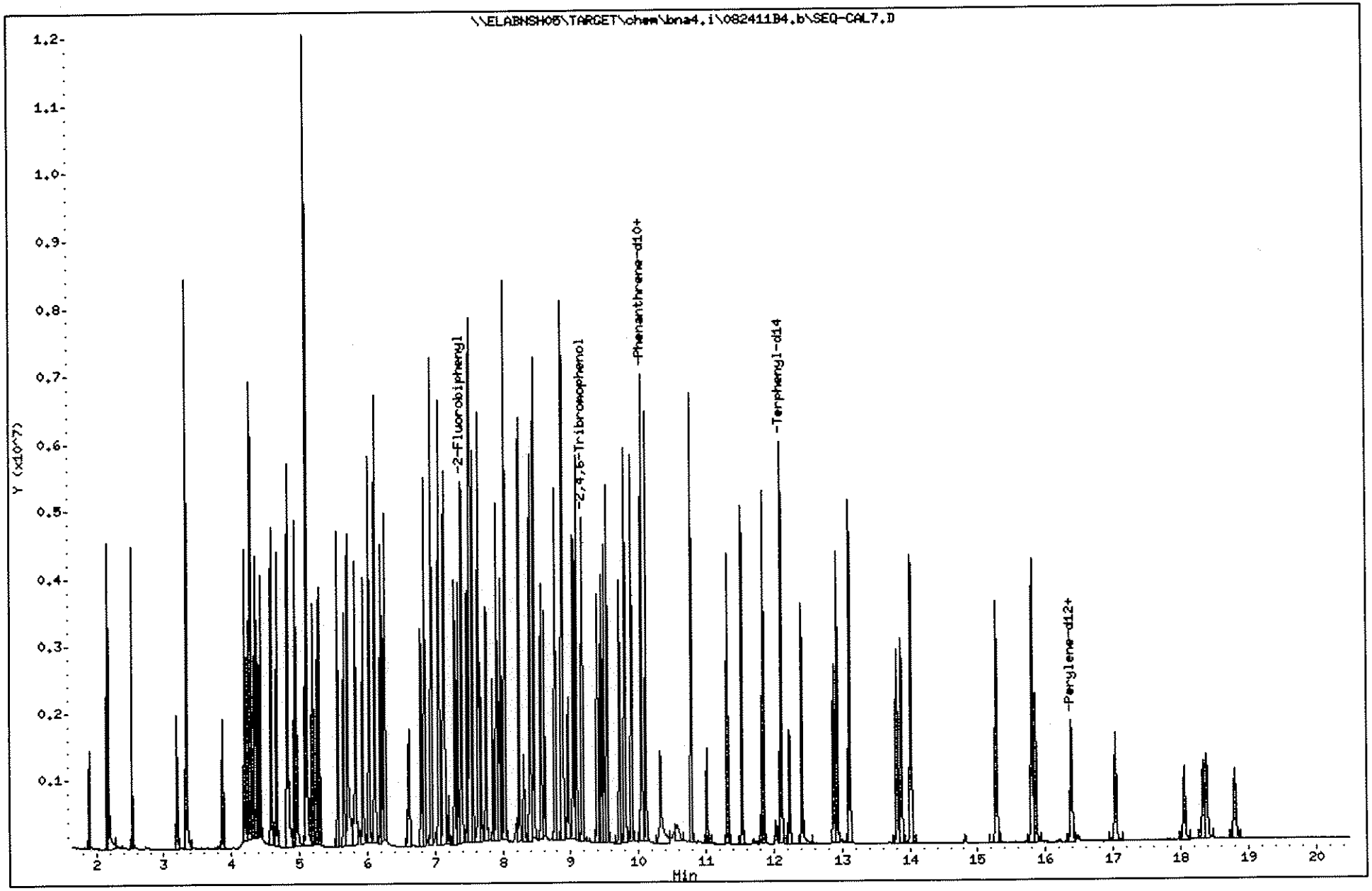
Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	AMOUNTS CAL-AMT (ng/ul)	AMOUNTS ON-COL (ng/ul)
140 Bis(2-ethylhexyl)phthalate	149	14.019	14.019	(0.851)	2014804	20.0000	22.70
155 Di-n-octylphthalate	149	15.274	15.274	(0.927)	2914264	20.0000	23.75
156 Benzo(b)fluoranthene	252	15.804	15.804	(0.959)	1693779	20.0000	23.60
157 Benzo(k)fluoranthene	252	15.860	15.860	(0.962)	1575742	20.0000	21.70
158 Benzo(a)pyrene	252	16.380	16.380	(0.994)	1295544	20.0000	21.42
159 Indeno(1,2,3-cd)pyrene	276	18.333	18.333	(1.112)	978299	20.0000	22.55
160 Dibenz(a,h)anthracene	278	18.388	18.388	(1.116)	996820	20.0000	23.41
161 Benzo(g,h,i)perylene	276	18.807	18.807	(1.141)	978024	20.0000	22.29

Data File: \\ELABNSH05\TARGET\chem\bna4.i\082411B4.b\SEQ-CAL7.D
Date : 24-AUG-2011 17:34
Client ID: SEQ-CAL7
Sample Info: CAL-20.0PPM;;;;;11C0013

Column phase: fused silica

Instrument: bna4.i

Operator: MEC
Column diameter: 0.25



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Data File: \\ELABNSH05\TARGET\chem\bna4.i\082411B4.b\SEQ-CAL9.D
Report Date: 25-Aug-2011 13:29

Laboratory Name

Data file : \\ELABNSH05\TARGET\chem\bna4.i\082411B4.b\SEQ-CAL9.D
Lab Smp Id: SEQ-CAL9 Client Smp ID: SEQ-CAL9
Inj Date : 24-AUG-2011 18:33 MS Autotune Date: 16-JUN-2011 16:30
Operator : MEC Inst ID: bna4.i
Smp Info : CAL-50.0PPM;;;;;11C0015
Misc Info : ;1;;;9;;pahmisc.sub;
Comment :
Method : \\ELABNSH05\TARGET\chem\bna4.i\082411B4.b\IXBN4LOW.m
Meth Date : 25-Aug-2011 13:29 mcobb Quant Type: ISTD
Cal Date : 24-AUG-2011 18:33 Cal File: SEQ-CAL9.D
Als bottle: 10 Calibration Sample, Level: 9
Dil Factor: 1.00000
Integrator: HP RTE Compound Sublist: pahmisc.sub
Target Version: 4.04
Processing Host: TARGET09_VM

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Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	AMOUNTS CAL-AMT (ng/ul)	AMOUNTS ON-COL (ng/ul)
* 102 Phenanthrene-d10	188	10.022	10.022	(1.000)	128361	1.00000	
4 1,4-Dioxane	88	1.897	1.897	(0.189)	1192607	50.0000	43.25
21 N-Nitroso-di-n-propylamine	70	5.123	5.123	(0.511)	2145950	50.0000	46.22
39 Isophorone	82	5.578	5.578	(0.557)	5767211	50.0000	45.88
51 Naphthalene	128	6.117	6.117	(0.610)	8461512	50.0000	44.28
53 Hexachlorobutadiene	225	6.266	6.266	(0.625)	1633030	50.0000	45.85
55 2-Methylnaphthalene	142	6.954	6.954	(0.694)	5319159	50.0000	46.47
56 1-Methylnaphthalene	142	7.065	7.065	(0.705)	4984741	50.0000	44.92
70 Hexachlorocyclopentadiene	237	7.131	7.131	(0.712)	1794338	50.0000	49.89
$ 74 2-Fluorobiphenyl	172	7.400	7.400	(0.738)	5550453	50.0000	45.76
77 Acenaphthylene	152	8.042	8.042	(0.802)	7757947	50.0000	46.66
80 Acenaphthene	153	8.255	8.255	(0.824)	5428533	50.0000	47.62
84 Dibenzofuran	168	8.469	8.469	(0.845)	6653451	50.0000	48.38
88 Fluorene	166	8.878	8.878	(0.886)	5503204	50.0000	50.62(A)
104 Carbazole	167	10.328	10.328	(1.031)	1074348	50.0000	10.52
110 Pentachlorophenol	266	9.808	9.808	(0.979)	1095286	50.0000	49.96
$ 107 2,4,6-Tribromophenol	330	9.185	9.185	(0.917)	2351727	100.000	105.8(A)
111 Phenanthrene	178	10.059	10.059	(1.004)	7432064	50.0000	49.76
109 Hexachlorobenzene	284	9.548	9.548	(0.953)	2058662	50.0000	44.78
112 Anthracene	178	10.124	10.124	(1.010)	7557141	50.0000	51.62(A)
116 Fluoranthene	202	11.537	11.537	(1.151)	7347329	50.0000	52.23(A)
134 Pyrene	202	11.853	11.853	(1.183)	7309632	50.0000	51.19(A)
* 154 Perylene-d12	264	16.492	16.492	(1.000)	70348	1.00000	
$ 135 Terphenyl-d14	244	12.113	12.113	(1.209)	4320889	50.0000	53.07(A)
138 Benzo(a)anthracene	228	13.824	13.824	(1.379)	5212847	50.0000	58.26(A)
139 Chrysene	228	13.889	13.889	(1.386)	4979558	50.0000	55.27(A)

8/25/11

Data File: \\ELABNSH05\TARGET\chem\bna4.i\082411B4.b\SEQ-CAL9.D
Report Date: 25-Aug-2011 13:29

Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	AMOUNTS CAL-AMT (ng/ul)	AMOUNTS ON-COL (ng/ul)
140 Bis(2-ethylhexyl)phthalate	149	14.019	14.019	(0.850)	5303978	50.0000	45.66
155 Di-n-octylphthalate	149	15.283	15.283	(0.927)	8291174	50.0000	51.63(A)
156 Benzo(b)fluoranthene	252	15.832	15.832	(0.960)	5195929	50.0000	55.32(A)
157 Benzo(k)fluoranthene	252	15.878	15.878	(0.963)	4981079	50.0000	52.40(A)
158 Benzo(a)pyrene	252	16.399	16.399	(0.994)	4141376	50.0000	52.31(A)
159 Indeno(1,2,3-cd)pyrene	276	18.351	18.351	(1.113)	3245468	50.0000	57.15(A)
160 Dibenz(a,h)anthracene	278	18.407	18.407	(1.116)	3304809	50.0000	59.30(A)
161 Benzo(g,h,i)perylene	276	18.825	18.825	(1.141)	3113525	50.0000	54.22(A)

QC Flag Legend

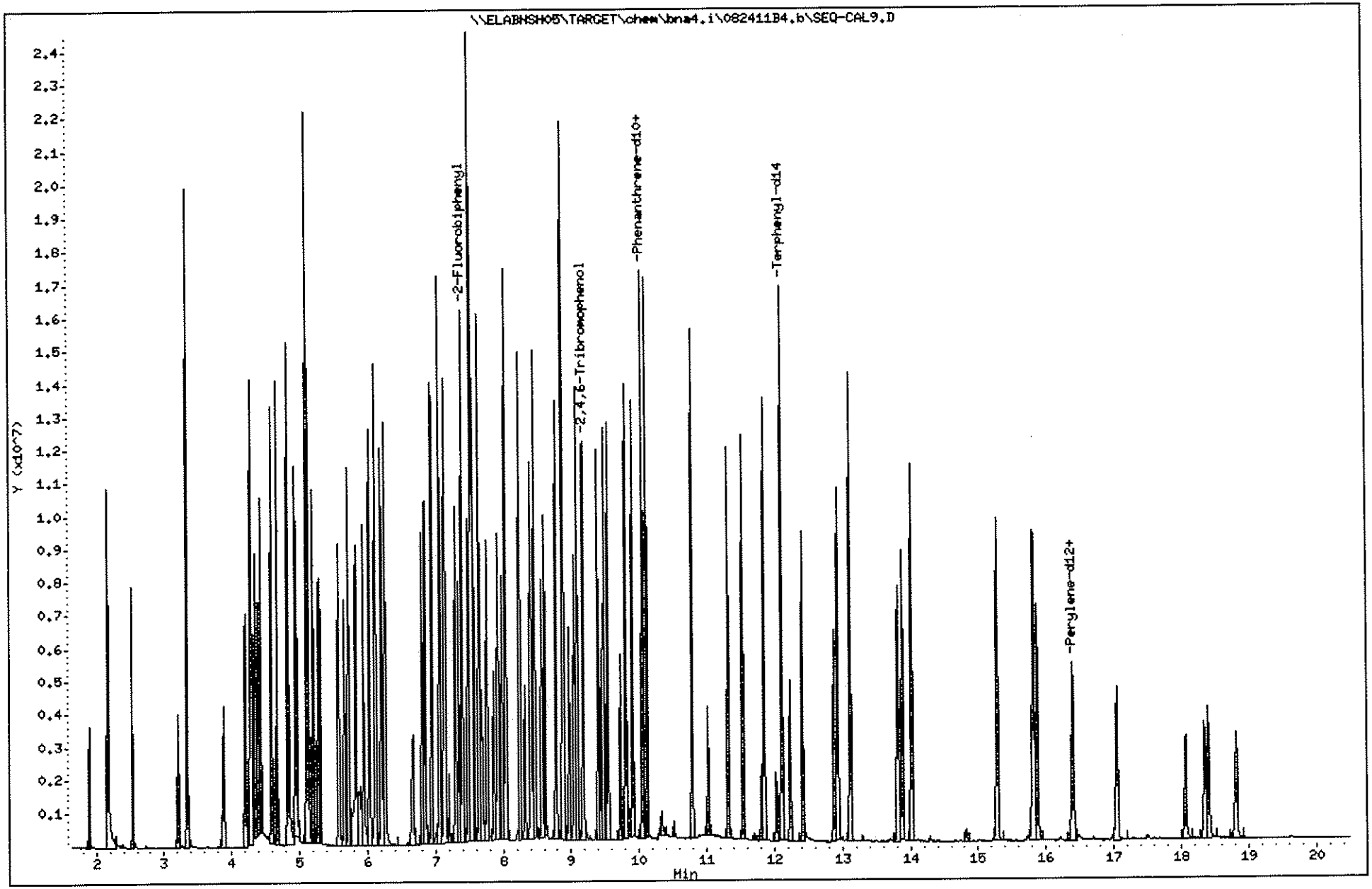
A - Target compound detected but, quantitated amount exceeded maximum amount.

Data File: \\ELABNSH05\TARGET\chem\bna4.i\082411B4.b\SEQ-CAL9.D
Date : 24-AUG-2011 18:33
Client ID: SEQ-CAL9
Sample Info: CAL-50.0PPM;;;;;11C0015

Column phase: fused silica

Instrument: bna4.i

Operator: HEC
Column diameter: 0.25



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1109191

Data File: \\ELABNSH05\TARGET\chem\bna4.i\082411B4.b\SEQ-ICV1.D
Report Date: 25-Aug-2011 13:42

Laboratory Name

Data file : \\ELABNSH05\TARGET\chem\bna4.i\082411B4.b\SEQ-ICV1.D
Lab Smp Id: SEQ-ICV1 Client Smp ID: SEQ-ICV1
Inj Date : 24-AUG-2011 19:02 MS Autotune Date: 16-JUN-2011 16:30
Operator : MEC Inst ID: bna4.i
Smp Info : ICV-5.0PPM;;;;;
Misc Info : ;1;;;;;pahmisc.sub;
Comment :
Method : \\ELABNSH05\TARGET\chem\bna4.i\082411B4.b\IXBN4LOW.m
Meth Date : 25-Aug-2011 13:41 mcobb Quant Type: ISTD
Cal Date : 24-AUG-2011 18:33 Cal File: SEQ-CAL9.D
Als bottle: 11 QC Sample: ICV
Dil Factor: 1.00000
Integrator: HP RTE Compound Sublist: pahmisc.sub
Target Version: 4.04
Processing Host: TARGET09_VM

m 8/29/11

Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS ON-COLUMN (ng/ul)	FINAL (ng/ul)
* 102 Phenanthrene-d10	188	10.012	10.022	(1.000)	113055	1.00000	
4 1,4-Dioxane	88	1.897	1.897	(0.189)	103786	4.27335	4.273
21 N-Nitroso-di-n-propylamine	70	5.095	5.123	(0.509)	218009	5.33150	5.332
39 Isophorone	82	5.559	5.578	(0.555)	595518	5.37913	5.379
51 Naphthalene	128	6.108	6.117	(0.610)	957033	5.68707	5.687
53 Hexachlorobutadiene	225	6.257	6.266	(0.625)	186037	5.93043	5.930
55 2-Methylnaphthalene	142	6.935	6.954	(0.693)	510876	5.06751	5.068
56 1-Methylnaphthalene	142	7.056	7.065	(0.705)	485846	4.97085	4.971
70 Hexachlorocyclopentadiene	237	7.121	7.131	(0.711)	132522	4.50370	4.504
$ 74 2-Fluorobiphenyl	172	7.391	7.400	(0.738)	540325	5.05792	5.058
77 Acenaphthylene	152	8.023	8.042	(0.801)	816866	5.57804	5.578
80 Acenaphthene	153	8.237	8.255	(0.823)	553226	5.50990	5.510
84 Dibenzofuran	168	8.451	8.469	(0.844)	665044	5.49103	5.491
88 Fluorene	166	8.869	8.878	(0.886)	549202	5.73552	5.736
104 Carbazole	167	10.319	10.328	(1.031)	530599	5.89908	5.899
110 Pentachlorophenol	266	9.789	9.808	(0.978)	72423	4.98182	4.982
$ 107 2,4,6-Tribromophenol	330	9.166	9.185	(0.916)	216596	11.0663	11.07
111 Phenanthrene	178	10.040	10.059	(1.003)	733296	5.57400	5.574
109 Hexachlorobenzene	284	9.538	9.548	(0.953)	205796	5.08320	5.083
112 Anthracene	178	10.105	10.124	(1.009)	725464	5.62618	5.626
116 Fluoranthene	202	11.528	11.537	(1.151)	663951	5.35927	5.359
134 Pyrene	202	11.834	11.853	(1.182)	696555	5.53865	5.539
* 154 Perylene-d12	264	16.483	16.492	(1.000)	49469	1.00000	
$ 135 Terphenyl-d14	244	12.104	12.113	(1.209)	387658	5.40632	5.406
138 Benzo(a)anthracene	228	13.805	13.824	(1.379)	426949	5.41769	5.418
139 Chrysene	228	13.870	13.889	(1.385)	430417	5.42418	5.424

8/25/11

Data File: \\ELABNSH05\TARGET\chem\bna4.i\082411B4.b\SEQ-ICV1.D
Report Date: 25-Aug-2011 13:42

Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS ON-COLUMN (ng/ul)	FINAL (ng/ul)
140 Bis(2-ethylhexyl)phthalate	149	14.010	14.019	(0.850)	487320	5.96616	5.966
155 Di-n-octylphthalate	149	15.274	15.283	(0.927)	645580	5.71647	5.716
156 Benzo(b)fluoranthene	252	15.795	15.832	(0.958)	345363	5.22922	5.229
157 Benzo(k)fluoranthene	252	15.851	15.878	(0.962)	361843	5.41364	5.414
158 Benzo(a)pyrene	252	16.380	16.399	(0.994)	282753	5.07898	5.079
159 Indeno(1,2,3-cd)pyrene	276	18.333	18.351	(1.112)	200041	5.00902	5.009
160 Dibenz(a,h)anthracene	278	18.388	18.407	(1.116)	217402	5.54781	5.548
161 Benzo(g,h,i)perylene	276	18.797	18.825	(1.140)	204971	5.07561	5.076

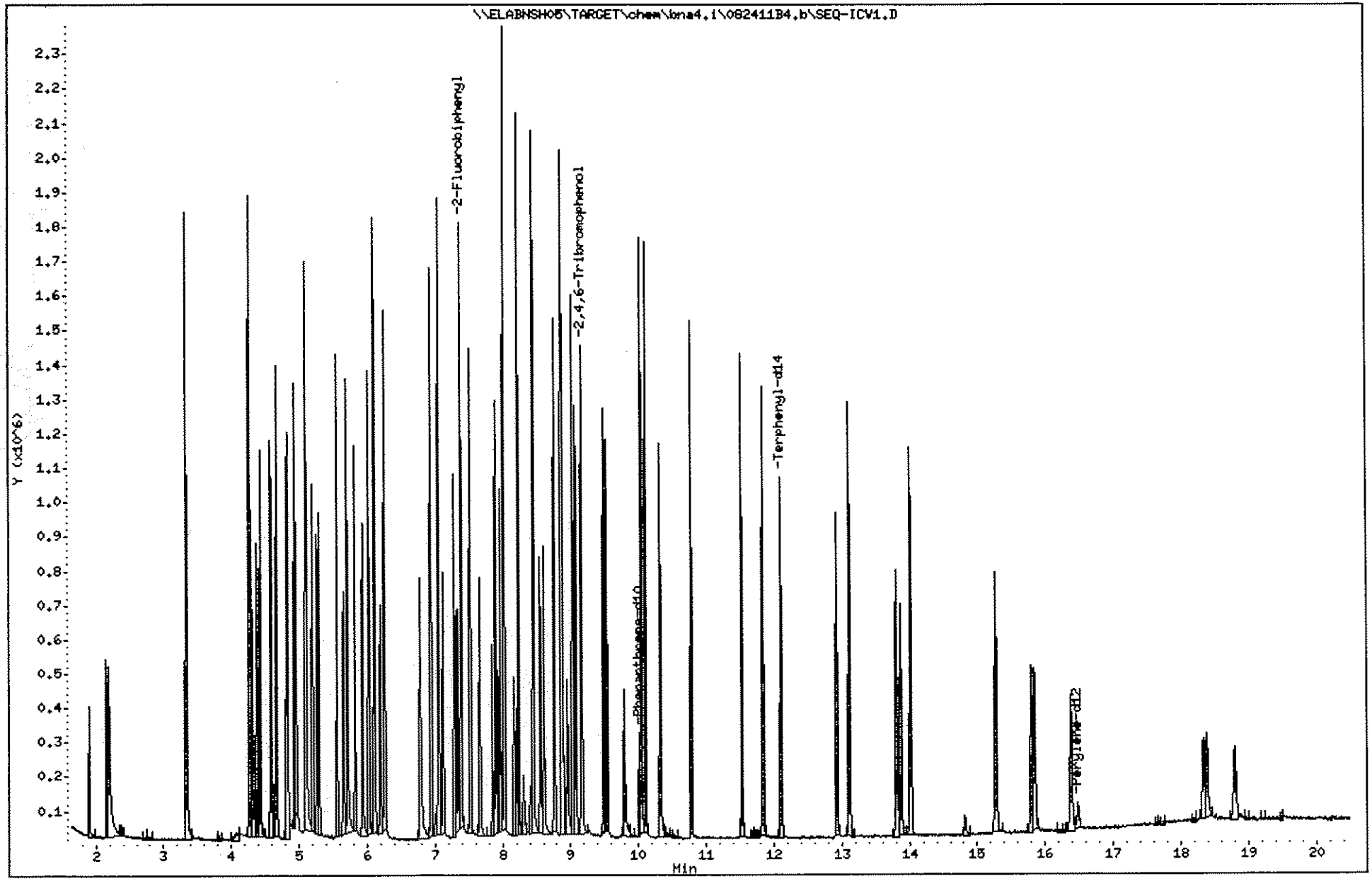
Data File: \\ELABNSHO5\TARGET\chem\bna4.i\082411B4.b\SEQ-ICV1.D
Date : 24-AUG-2011 19:02
Client ID: SEQ-ICV1
Sample Info: ICV-5.0PPM;;;;;

Instrument: bna4.i

Operator: HEC

Column phase: fused silica

Column diameter: 0.25



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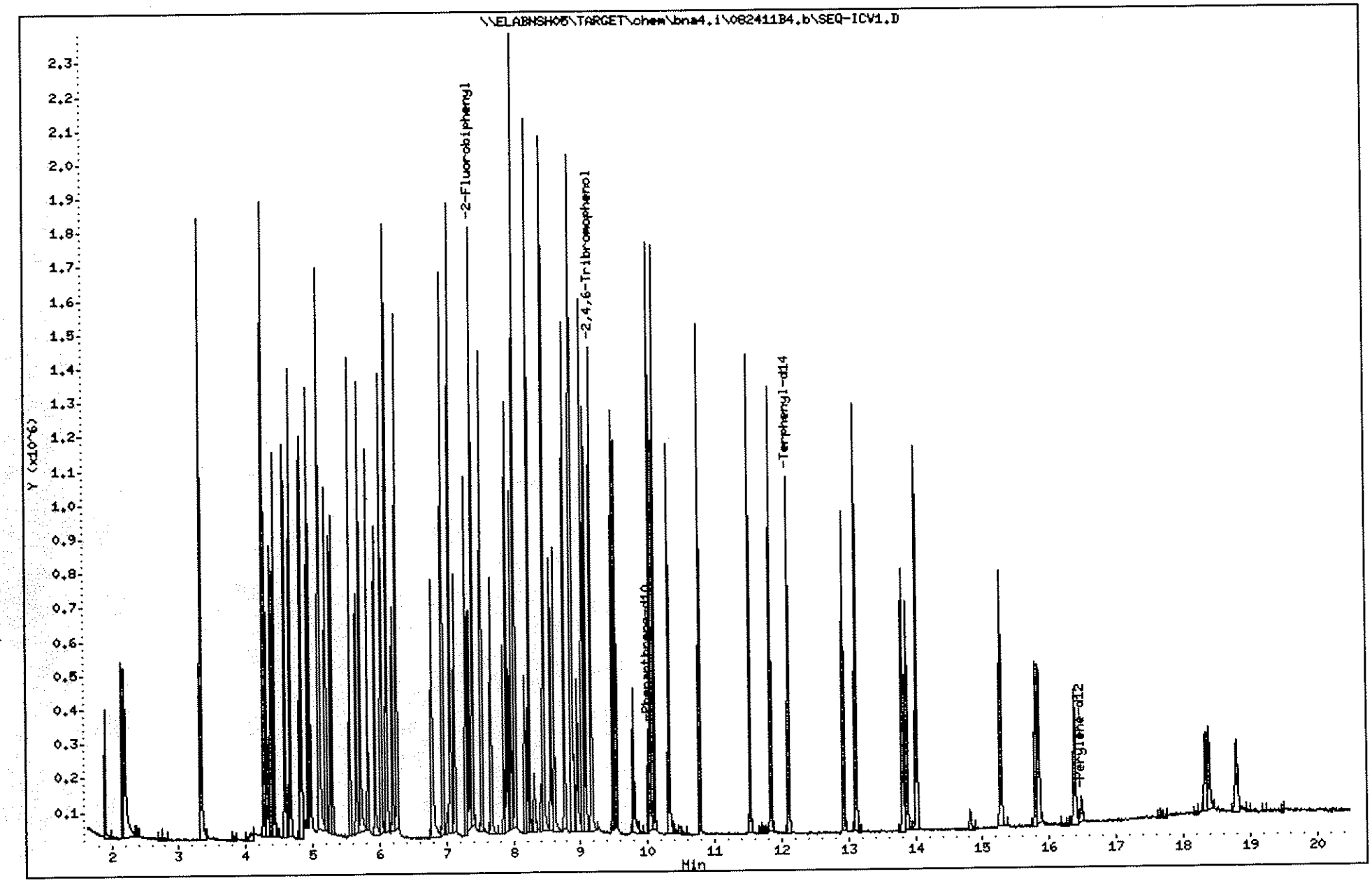
Data File: \\ELABNSH05\TARGET\chem\bna4.i\082411B4.b\SEQ-ICV1.D
Date : 24-AUG-2011 19:02
Client ID: SEQ-ICV1
Sample Info: ICV-5.0PPM;;;;;

Column phase: fused silica

Instrument: bna4.i

Operator: HEC
Column diameter: 0.25



873

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Comment: EPA8270
Operator: MEC
Data Path: D:\DATA\101811B4\
Instrument Control Pre-Seq Cmd:
Data Analysis Pre-Seq Cmd:

Instrument Control Post-Seq Cmd:
Data Analysis Post-Seq Cmd:

100 Z

10/19/11

Method Sections To Run
(X) Full Method
( ) Reprocessing Only

On A Barcode Mismatch
(X) Inject Anyway
( ) Don't Inject

Line			Sample Name/Misc Info	
1)	Sample	1	SEQ-TUN1 DFBN4LOW DF1018B1;;;;;;~~11J0329~~ 11J0328	13:46, 10/18
2)	Sample	2	SEQ-CCV1 IXBN4LOW CCV-5.0PPM;;;;;;11J0309	
3)	Spike	3	I23026L1 IXBN4LOW 1I23026-BS2;1;15;1000;1;UG/KG	
4)	Blank	4	I23026B1 IXBN4LOW 1I23026-BLK2;1;15;1000;1;UG/K	
5)	Spike	5	I19022L1 IXBN4LOW 1I19022-BS2;1;1000;1000;1;UG/	
6)	Blank	6	I19022B1 IXBN4LOW 1I19022-BLK2;1;1000;1000;1;UG	
7)	Sample	7	0914701 IXBN4LOW 1109147-01;1;1000;1000;1;UG/L	
8)	Sample	8	0914702 IXBN4LOW 1109147-02;1;1000;1000;1;UG/L	
9)	Sample	9	0914703 IXBN4LOW 1109147-03;1;1000;1000;1;UG/L	
10)	Sample	10	0914704 IXBN4LOW 1109147-04;1;1000;1000;1;UG/L	
11)	Sample	11	0914706 IXBN4LOW 1109147-06;1;1000;1000;1;UG/L	
12)	Sample	12	0914707 IXBN4LOW 1109147-07;1;1000;1000;1;UG/L	T1
13)	Spike	13	I26926L1 IXBN4LOW 1I26926-BS2;1;1000;1000;1;UG/	
14)	Blank	14	I26926B1 IXBN4LOW 1I26926-BLK2;1;1000;1000;1;UG	
15)	Sample	15	0919110 IXBN4LOW 1109191-10;1;1000;1000;1;UG/L	
16)	Sample	16	~~0919112~~ IXBN4LOW 1109191-12;1;1000;1000;1;UG/L	919212
17)	Sample	17	0920102 IXBN4LOW 1109201-02;1;1000;1000;1;UG/L	
18)	Spike	18	0920102M IXBN4LOW 1I26926-MS2;1;1000;1000;1;UG/	
19)	Duplicate	19	0920102S IXBN4LOW 1I26926-MSD2;1;1000;1000;1;UG	
20)	Sample	20	0920103 IXBN4LOW 1109201-03;1;1000;1000;1;UG/L	
21)	Sample	21	0913221 IXBN4LOW 1109132-21;1;15;1000;1;UG/KG;	
22)	Spike	22	0913221M IXBN4LOW 1I23026-MS2;1;15;1000;1;UG/KG	
23)	Duplicate	23	0913221S IXBN4LOW 1I23026-MSD2;1;15;1000;1;UG/K	
24)	Sample	24	0913223 IXBN4LOW 1109132-23;1;15;1000;1;UG/KG;	
25)	Sample	25	0913225 IXBN4LOW 1109132-25;1;15;1000;1;UG/KG;	1:23, 10/19
26)	Sample	1	SEQ-TUN2 DFBN4LOW DF1018B2;;;;;;~~11J0329~~ 11J0328	1:58, 10/19
27)	Sample	2	SEQ-CCV2 IXBN4LOW CCV-5.0PPM;;;;;;11J0309	
28)	Sample	26	0918216 IXBN4LOW 1109182-16;1;15;1000;1;UG/KG;	
29)	Sample	27	0918223 IXBN4LOW 1109182-23;1;15;1000;1;UG/KG;	
30)	Sample	28	0913224D IXBN4LOW 1109132-24;10;15;1000;1;UG/KG	
31)	Sample	29	0918214D IXBN4LOW 1109182-14;10;15;1000;1;UG/KG	
32)	Sample	30	0918217D IXBN4LOW 1109182-17;10;15;1000;1;UG/KG	T2
33)	Sample	31	0918218D IXBN4LOW 1109182-18;10;15;1000;1;UG/KG	
34)	Sample	32	0918220D IXBN4LOW 1109182-20;10;15;1000;1;UG/KG	
35)	Sample	33	0918222D IXBN4LOW 1109182-22;10;15;1000;1;UG/KG	
36)	Sample	34	0913222 IXBN4LOW 1109132-22;1;15;1000;1;UG/KG;	
37)	Sample	35	0918215 IXBN4LOW 1109182-15;1;15;1000;1;UG/KG;	
38)	Sample	36	0918219 IXBN4LOW 1109182-19;1;15;1000;1;UG/KG;	
39)	Sample	37	0918221 IXBN4LOW 1109182-21;1;15;1000;1;UG/KG;	8:11, 10/19

Last Modified: Wed Oct 19 09:10:14 2011 Page: 1

Data File: \\ELABNSH05\TARGET\chem\bna4.i\101811B4.b\SEQ-TUN1.D

Date : 18-OCT-2011 13:46

Client ID: 50ppm DFTPP

Instrument: bna4.i

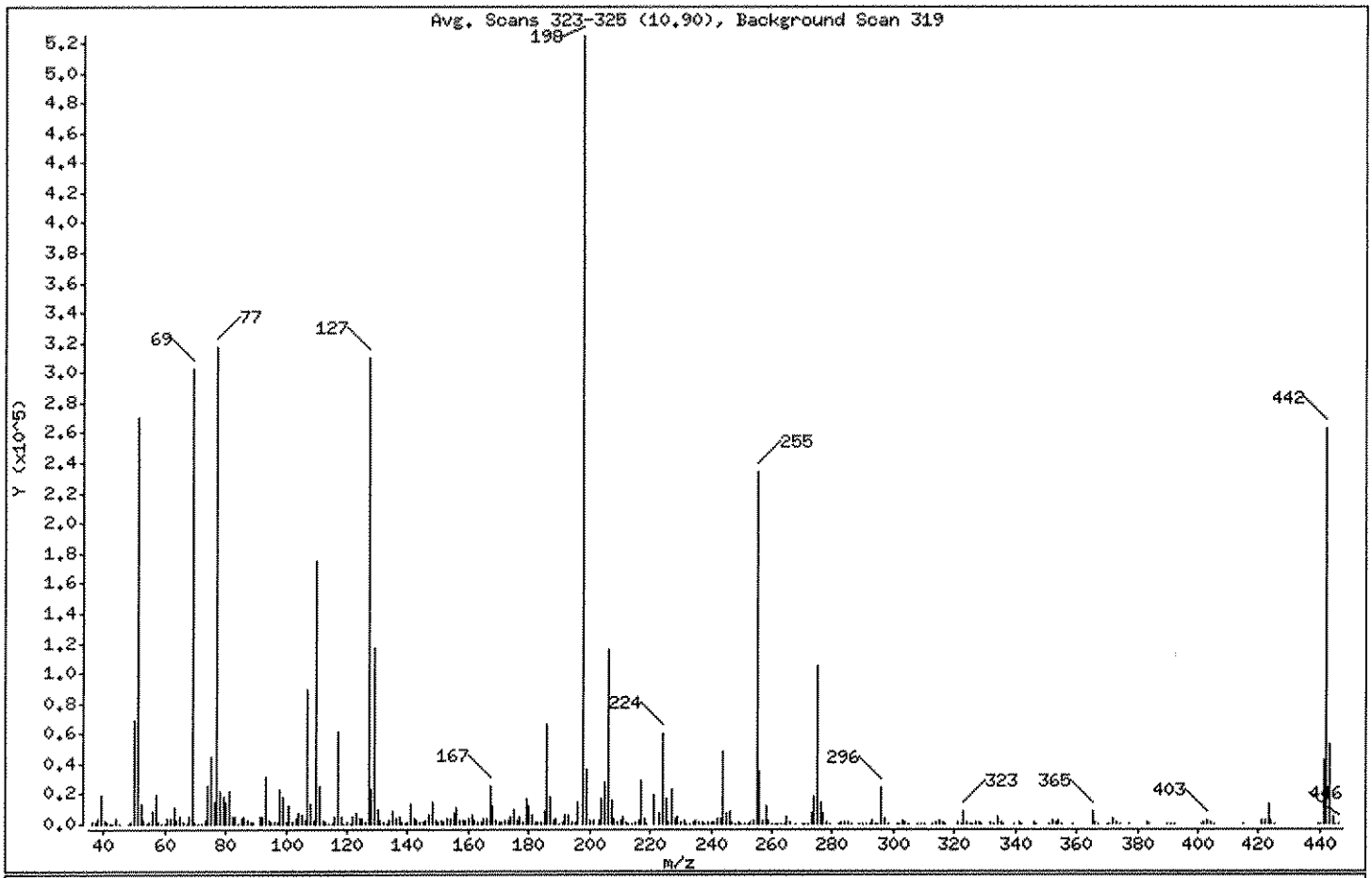
Sample Info: DF1018B1;;;;;;11J0329

Operator: MEC

Column phase: DB5-MS

Column diameter: 0.25

1 dftpp



10-21-11

m/e	ION ABUNDANCE CRITERIA	% RELATIVE ABUNDANCE
198	Base Peak, 100% relative abundance	100.00
51	30.00 - 60.00% of mass 198	51.39
68	Less than 2.00% of mass 69	0.94 (1.63)
69	Mass 69 relative abundance	57.73
70	Less than 2.00% of mass 69	0.30 (0.52)
127	40.00 - 60.00% of mass 198	59.15
197	Less than 1.00% of mass 198	0.00
199	5.00 - 9.00% of mass 198	6.98
275	10.00 - 30.00% of mass 198	19.90
365	Greater than 1.00% of mass 198	1.71
441	Present, but less than mass 443	8.00
442	Greater than 40.00% of mass 198	50.09
443	17.00 - 23.00% of mass 442	10.11 (20.18)

10/19/11

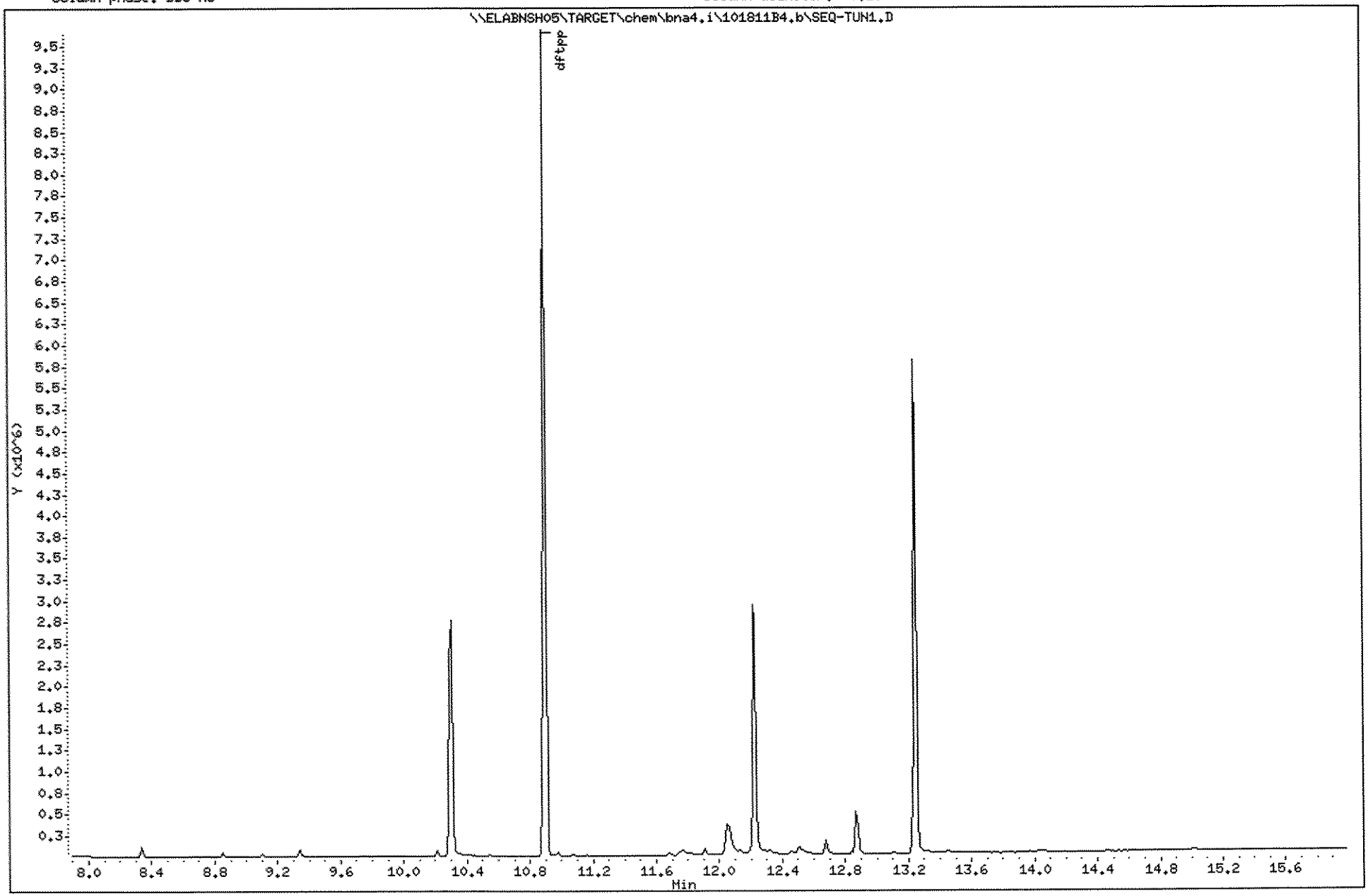
Data File: \\ELABNSH05\TARGET\chem\bna4.i\101811B4.b\SEQ-TUN1.D
Date : 18-OCT-2011 13:46
Client ID: 50ppm DFTPP
Sample Info: DF1018B1;;;;;;11J0329

Instrument: bna4.i

Operator: MEC

Column phase: DB5-MS

Column diameter: 0.25



Data File: \\ELABNSH05\TARGET\chem\bna4.i\101811B4.b\SEQ-TUN1.D

Date : 18-OCT-2011 13:46

Client ID: 50ppm DFTPP

Instrument: bna4.i

Sample Info: DF1018B1;;;;;;11J0329

Operator: MEC

Column phase: DB5-MS

Column diameter: 0.25

Data File: SEQ-TUN1.D
Spectrum: Avg. Scans 323-325 (10.90), Background Scan 319
Location of Maximum: 198.00
Number of points: 321

m/z	Y	m/z	Y	m/z	Y	m/z	Y
36.00	919	120.10	1206	203.10	2744	292.10	420
37.10	986	121.00	372	204.00	16584	293.10	1890
38.10	3510	122.00	4762	205.00	27424	294.10	524
39.10	19800	123.00	7646	206.10	115816	295.00	603
40.10	2615	124.00	3816	207.10	15532	296.00	24360
41.10	925	125.00	3897	208.00	3412	297.00	3907
42.00	142	126.10	1501	209.00	971	298.10	287
43.00	345	127.00	310400	210.20	2009	301.00	326
44.00	3206	128.00	23416	211.00	4336	302.10	423
45.00	513	129.00	117472	211.90	870	303.10	2631
47.90	106	130.00	9475	213.00	313	303.90	734
49.00	1728	131.00	1870	214.00	141	305.00	173
50.10	68400	132.00	927	215.00	1143	308.00	367
51.10	269696	133.10	459	216.10	2440	309.00	347
52.10	13344	134.00	2951	217.00	28424	310.10	332
53.10	700	135.00	8387	218.00	4119	312.90	278
54.10	130	136.00	3593	219.00	460	314.00	1208
55.00	1470	137.10	4576	221.00	19488	315.00	2687
56.00	8080	137.90	1210	223.00	6807	316.10	1684
57.00	18992	139.10	580	224.10	60704	317.10	389
58.00	1152	140.00	1232	225.10	16384	321.10	918
59.00	251	141.00	13178	226.00	1586	322.00	345
60.10	191	142.00	4188	227.00	23256	323.10	8174
61.00	3108	143.00	2970	228.00	3189	324.10	1511
62.10	3536	143.90	829	229.00	5096	325.00	180
63.10	11209	145.10	700	229.90	671	325.90	173
64.00	1933	146.00	1998	231.00	2339	327.00	1247
65.10	5309	147.00	5871	232.10	385	328.00	681
66.10	604	148.00	14393	233.10	356	329.00	165
67.10	425	149.00	2906	234.00	1425	332.10	612
68.10	4940	149.90	765	235.00	1887	333.10	584
69.00	302976	151.20	1943	236.10	1122	334.10	4995
70.00	1561	151.70	1082	237.00	1631	335.10	1304
70.90	199	153.00	3829	238.00	240	336.10	196
72.10	189	154.00	3144	239.00	800	339.80	128

Data File: \\ELABNSH05\TARGET\chem\bna4.i\101811B4.b\SEQ-TUN1.D

Date : 18-OCT-2011 13:46

Client ID: 50ppm DFTPP

Instrument: bna4.i

Sample Info: DF1018B1;;;;;;11J0329

Operator: MEC

Column phase: DB5-MS

Column diameter: 0.25

Data File: SEQ-TUN1.D
Spectrum: Avg. Scans 323-325 (10.90), Background Scan 319
Location of Maximum: 198.00
Number of points: 321

m/z	Y	m/z	Y	m/z	Y	m/z	Y
73.10	2006	155.00	7045	240.00	739	341.10	911
74.00	25064	156.00	11082	241.00	1389	342.00	175
75.00	44096	157.10	2484	242.10	3144	346.00	1527
76.10	14457	158.00	2258	243.10	3596	346.90	305
77.10	317056	159.00	1828	244.10	48328	351.10	116
78.10	21952	160.00	3931	245.00	6930	352.10	2244
79.00	18224	161.00	5993	246.00	7957	353.10	1748
80.00	14860	162.00	1916	247.00	1715	354.10	2319
81.00	21904	162.90	619	248.00	462	355.10	476
82.00	5344	164.00	723	249.10	1610	358.90	182
83.00	5220	165.00	3865	250.00	379	365.10	8971
84.00	575	166.00	3993	251.10	400	366.00	1296
85.00	3504	167.00	24744	252.10	419	367.00	122
86.00	5242	168.00	11905	253.00	1075	370.00	333
87.00	2809	169.10	1951	254.10	1843	371.00	574
88.00	1007	170.10	805	255.00	233984	372.10	3663
89.00	639	171.10	911	256.00	34528	373.10	933
91.00	4236	172.00	2139	257.00	2728	374.10	119
92.00	5125	173.00	2528	258.00	12245	377.00	141
93.00	30848	174.00	5052	259.00	2079	383.00	982
94.00	2442	175.10	9631	260.00	401	384.10	379
95.10	791	176.10	2673	261.10	501	390.10	495
96.10	1478	177.00	4231	261.90	101	391.00	340
97.00	651	178.00	1687	263.10	101	392.00	379
98.00	22880	179.00	16768	264.00	453	401.10	247
99.00	18248	180.00	12533	265.00	4590	402.10	1566
100.00	1764	181.00	5800	266.00	718	403.10	2331
101.00	11527	182.10	1009	267.90	159	404.10	991
102.10	726	183.00	615	269.90	316	405.20	157
103.00	3790	184.10	1242	271.00	421	415.10	131
104.00	6739	185.10	8291	272.00	582	421.00	2216
105.00	6508	186.00	66720	273.00	7678	422.10	1824
106.10	2126	187.00	18544	274.00	18000	423.10	13344
107.00	89632	188.00	1930	275.00	104416	424.10	2923
108.00	13455	189.00	3753	276.00	14147	425.10	322

Data File: \\ELABNSH05\TARGET\chem\bna4.i\101811B4.b\SEQ-TUN1.D

Date : 18-OCT-2011 13:46

Client ID: 50ppm DFTPP

Instrument: bna4.i

Sample Info: DF1018B1;;;;;;11J0329

Operator: MEC

Column phase: DB5-MS

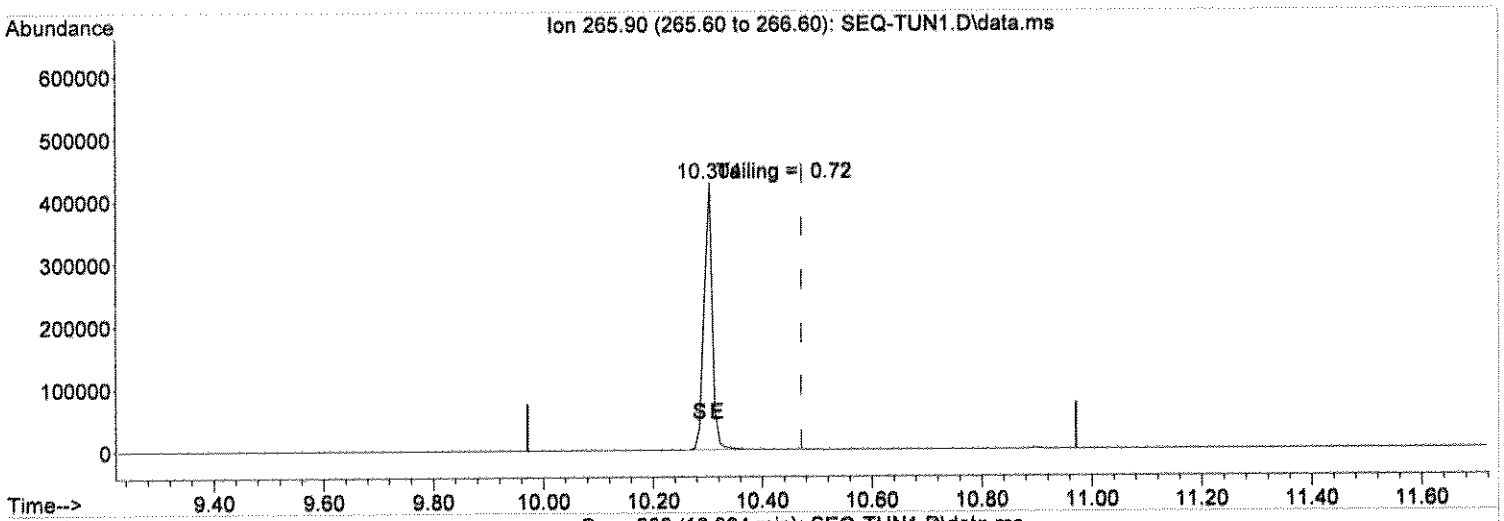
Column diameter: 0.25

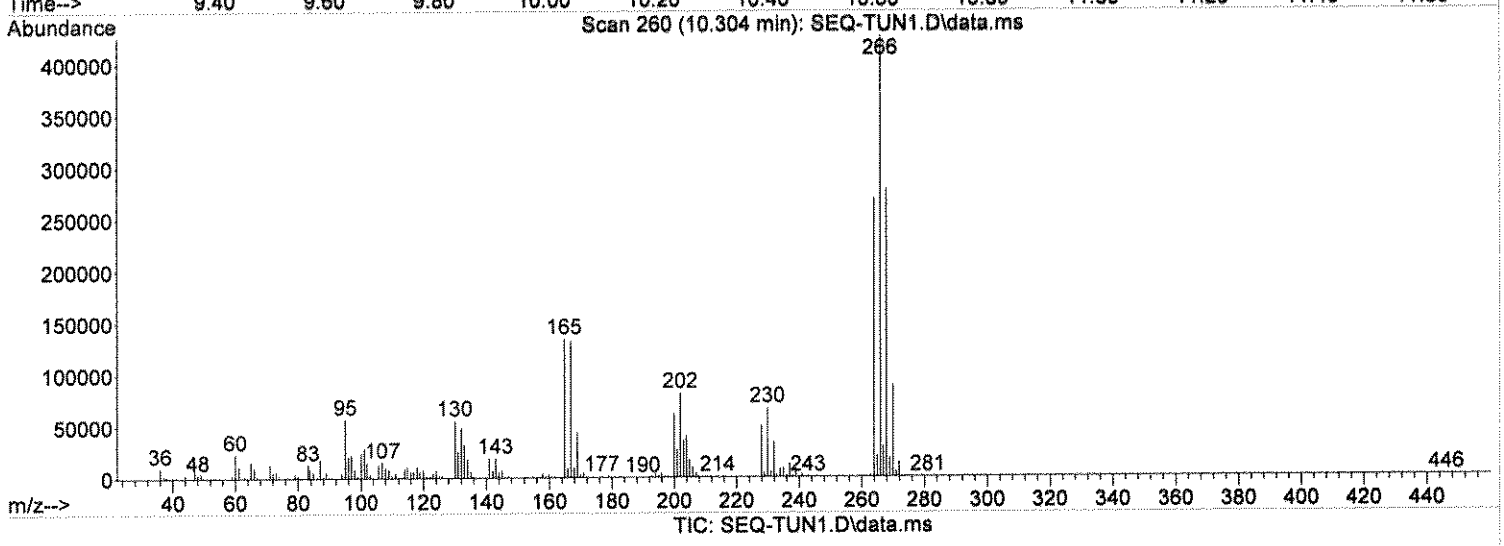
Data File: SEQ-TUN1.D
Spectrum: Avg. Scans 323-325 (10.90), Background Scan 319
Location of Maximum: 198.00
Number of points: 321

m/z	Y	m/z	Y	m/z	Y	m/z	Y
109.10	2578	190.00	585	277.00	7527	439.30	187
110.00	174528	191.00	1714	278.00	1319	440.10	259
111.00	25872	192.00	5493	279.00	344	441.10	41968
112.00	2786	193.10	5925	282.10	223	442.10	262848
113.00	957	194.10	1195	283.00	1072	443.10	53048
114.10	257	195.10	650	284.00	607	444.10	4791
115.10	408	196.00	14507	285.00	1415	444.90	255
116.00	4586	198.00	524800	286.20	238	446.30	157
117.00	62064	199.00	36656	289.00	340		
118.00	5081	200.00	2462	290.00	231		
119.00	549	201.60	2015	291.00	150		

Data Path : D:\DATA\101811B4\
Data File : SEQ-TUN1.D
Acq On : 18 Oct 2011 1:46 pm
Operator : MEC
Sample : DF1018B1;;;;;;11J0329
Misc : ;;;;;;all.sub;
ALS Vial : 1 Sample Multiplier: 1

Quant Time: Oct 20 11:56:02 2011
Quant Method : C:\MSDCHEM\1\METHODS\DFTPP.M
Quant Title : DFTPP EVALUATION
QLast Update : Thu Jun 30 14:07:24 2011
Response via : Initial Calibration





(1) pentachlorophenol

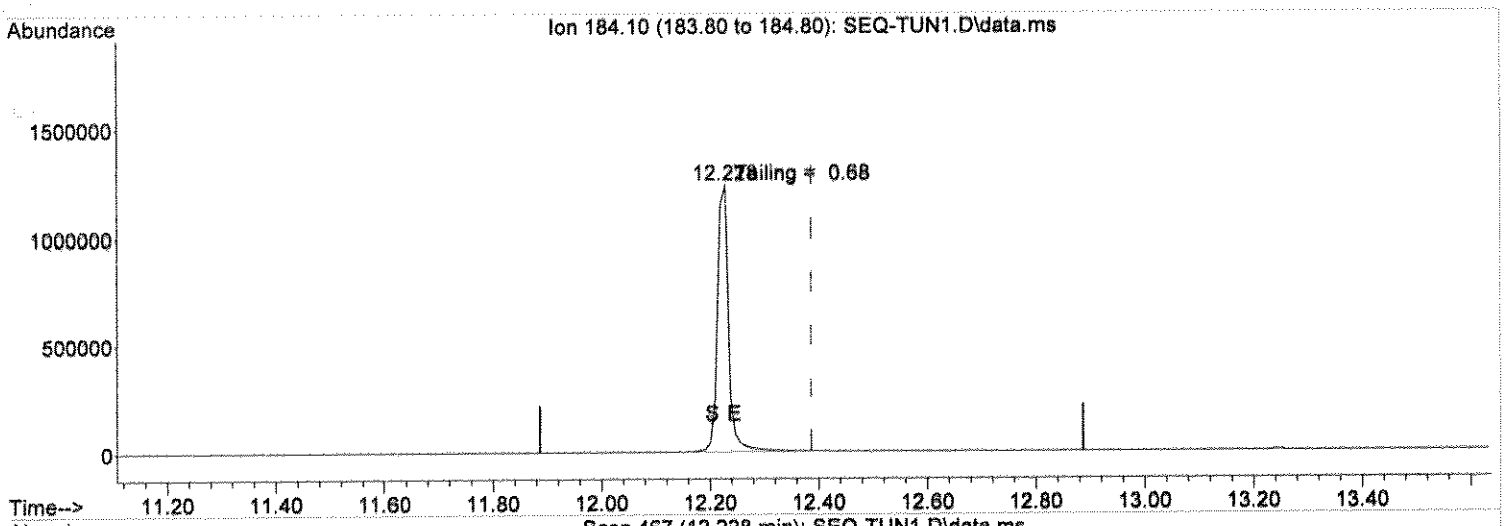
10.304min (-0.167) 0.00

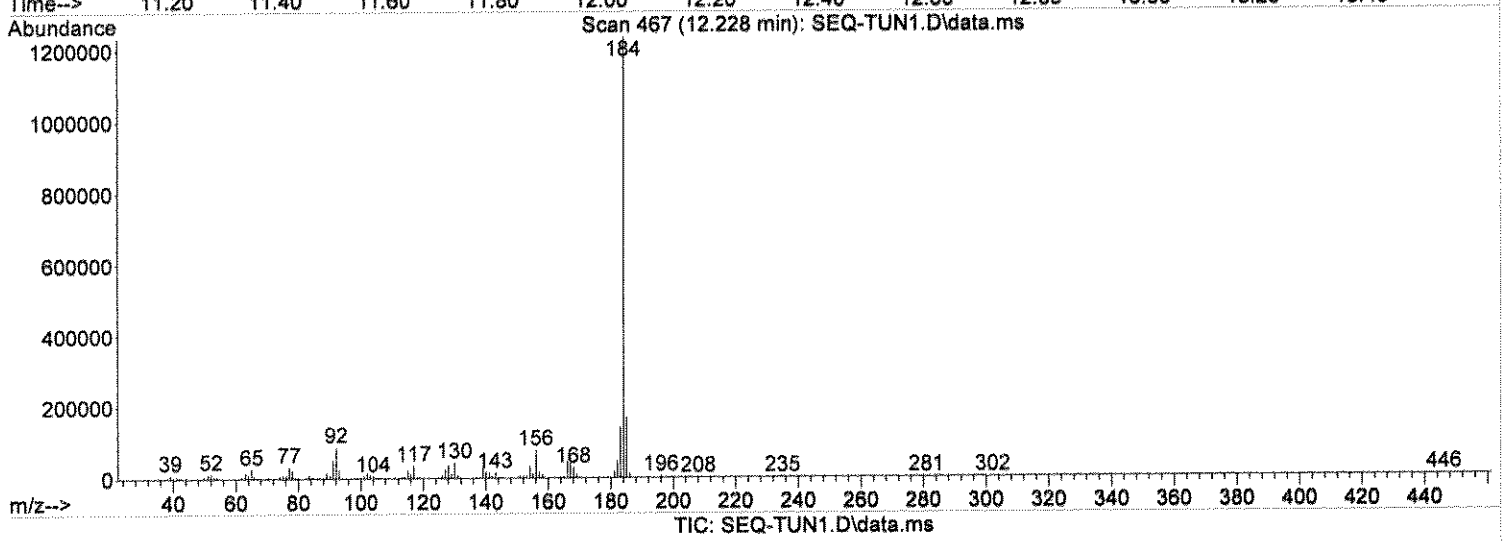
response 447579

Ion	Exp%	Act%
265.90	100	100
0.00	0.00	0.00
0.00	0.00	0.00
0.00	0.00	0.00

Data Path : D:\DATA\101811B4\
Data File : SEQ-TUN1.D
Acq On : 18 Oct 2011 1:46 pm
Operator : MEC
Sample : DF1018B1;;;;;;11J0329
Misc : ;;;;;;all.sub;
ALS Vial : 1 Sample Multiplier: 1

Quant Time: Oct 20 11:56:02 2011
Quant Method : C:\MSDCHEM\1\METHODS\DFTPP.M
Quant Title : DFTPP EVALUATION
QLast Update : Thu Jun 30 14:07:24 2011
Response via : Initial Calibration





(2) benzidine

12.228min (-0.158) 0.00

response 1803502

Ion	Exp%	Act%
184.10	100	100
0.00	0.00	0.00
0.00	0.00	0.00
0.00	0.00	0.00

Quantitation Report (Not Reviewed)

Data Path : D:\DATA\101811B4\
Data File : SEQ-TUN1.D
Acq On : 18 Oct 2011 1:46 pm
Operator : MEC
Sample : DF1018B1;;;;;;11J0329
Misc : ;;;;;;all.sub;
ALS Vial : 1 Sample Multiplier: 1

Quant Time: Oct 20 12:01:35 2011
Quant Method : C:\MSDCHEM\1\METHODS\DFTPP.M
Quant Title : DFTPP EVALUATION
QLast Update : Thu Oct 20 12:01:28 2011
Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc Units	Dev(Min)
Target Compounds					Qvalue
1) pentachlorophenol	10.304	266	447579	No Calib	
2) benzidine	12.228	184	1803502	No Calib	
3) p,p'-DDE	12.451	246	4774	No Calib	
4) m,p'-DDD	12.870	235	99661	No Calib	
5) o,p'-DDT	13.251	235	1147779	No Calib	

(#) = qualifier out of range (m) = manual integration (+) = signals summed

DFTPP.M Thu Oct 20 12:01:36 2011

DDT breakdown = $\frac{104435}{1252214} \times 100 = 8.34\%$

Data File: \\ELABNSH05\TARGET\chem\bna4.i\101811B4.b\SEQ-CCV1.D
Report Date: 18-Oct-2011 14:28

Laboratory Name

Data file : \\ELABNSH05\TARGET\chem\bna4.i\101811B4.b\SEQ-CCV1.D
Lab Smp Id: SEQ-CCV1 Client Smp ID: SEQ-CCV1
Inj Date : 18-OCT-2011 14:04 MS Autotune Date: 13-OCT-2011 14:17
Operator : MEC Inst ID: bna4.i
Smp Info : CCV-5.0PPM;;;;;;11J0309
Misc Info : ;;;;;;pahmisc.sub;
Comment :
Method : \\ELABNSH05\TARGET\chem\bna4.i\101811B4.b\IXBN4LOW.m
Meth Date : 18-Oct-2011 14:26 mcobb Quant Type: ISTD
Cal Date : 24-AUG-2011 18:33 Cal File: SEQ-CAL9.D
Als bottle: 2 Continuing Calibration Sample
Dil Factor: 1.00000
Integrator: HP RTE Compound Sublist: pahmisc.sub
Target Version: 4.04
Processing Host: TARGET09_VM

10-21-11

Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	AMOUNTS CAL-AMT (ng/ul)	AMOUNTS ON-COL (ng/ul)
* 102 Phenanthrene-d10	188	10.540	10.540	(1.000)	125269	1.00000	
4 1,4-Dioxane	88	2.276	2.276	(0.216)	102074	5.00000	3.793
21 N-Nitroso-di-n-propylamine	70	5.548	5.548	(0.526)	180200	5.00000	3.977
39 Isophorone	82	6.022	6.022	(0.571)	485054	5.00000	3.954
51 Naphthalene	128	6.599	6.599	(0.626)	811355	5.00000	4.351
53 Hexachlorobutadiene	225	6.738	6.738	(0.639)	159923	5.00000	4.601
55 2-Methylnaphthalene	142	7.426	7.426	(0.705)	518271	5.00000	4.640
56 1-Methylnaphthalene	142	7.547	7.547	(0.716)	494413	5.00000	4.565
70 Hexachlorocyclopentadiene	237	7.612	7.612	(0.722)	87155	5.00000	2.815
$ 74 2-Fluorobiphenyl	172	7.882	7.882	(0.748)	575565	5.00000	4.862
77 Acenaphthylene	152	8.532	8.532	(0.810)	758511	5.00000	4.674
80 Acenaphthene	153	8.746	8.746	(0.830)	502929	5.00000	4.520
84 Dibenzofuran	168	8.960	8.960	(0.850)	631673	5.00000	4.707
88 Fluorene	166	9.378	9.378	(0.890)	503043	5.00000	4.741
104 Carbazole	167	10.838	10.838	(1.028)	514055	5.00000	5.158
110 Pentachlorophenol	266	10.299	10.299	(0.977)	31718	5.00000	2.649
$ 107 2,4,6-Tribromophenol	330	9.676	9.676	(0.918)	102197	10.0000	4.712
111 Phenanthrene	178	10.568	10.568	(1.003)	649358	5.00000	4.455
109 Hexachlorobenzene	284	10.057	10.057	(0.954)	202262	5.00000	4.509
112 Anthracene	178	10.633	10.633	(1.009)	648630	5.00000	4.540
116 Fluoranthene	202	12.149	12.149	(1.153)	633971	5.00000	4.618
134 Pyrene	202	12.493	12.493	(1.185)	631559	5.00000	4.532
* 154 Perylene-d12	264	17.382	17.382	(1.000)	61317	1.00000	
$ 135 Terphenyl-d14	244	12.762	12.762	(1.211)	413053	5.00000	5.199
138 Benzo(a)anthracene	228	14.594	14.594	(1.385)	424830	5.00000	4.865
139 Chrysene	228	14.668	14.668	(1.392)	416526	5.00000	4.737

10/19/11

Data File: \\ELABNSH05\TARGET\chem\bna4.i\101811B4.b\SEQ-CCV1.D
Report Date: 18-Oct-2011 14:28

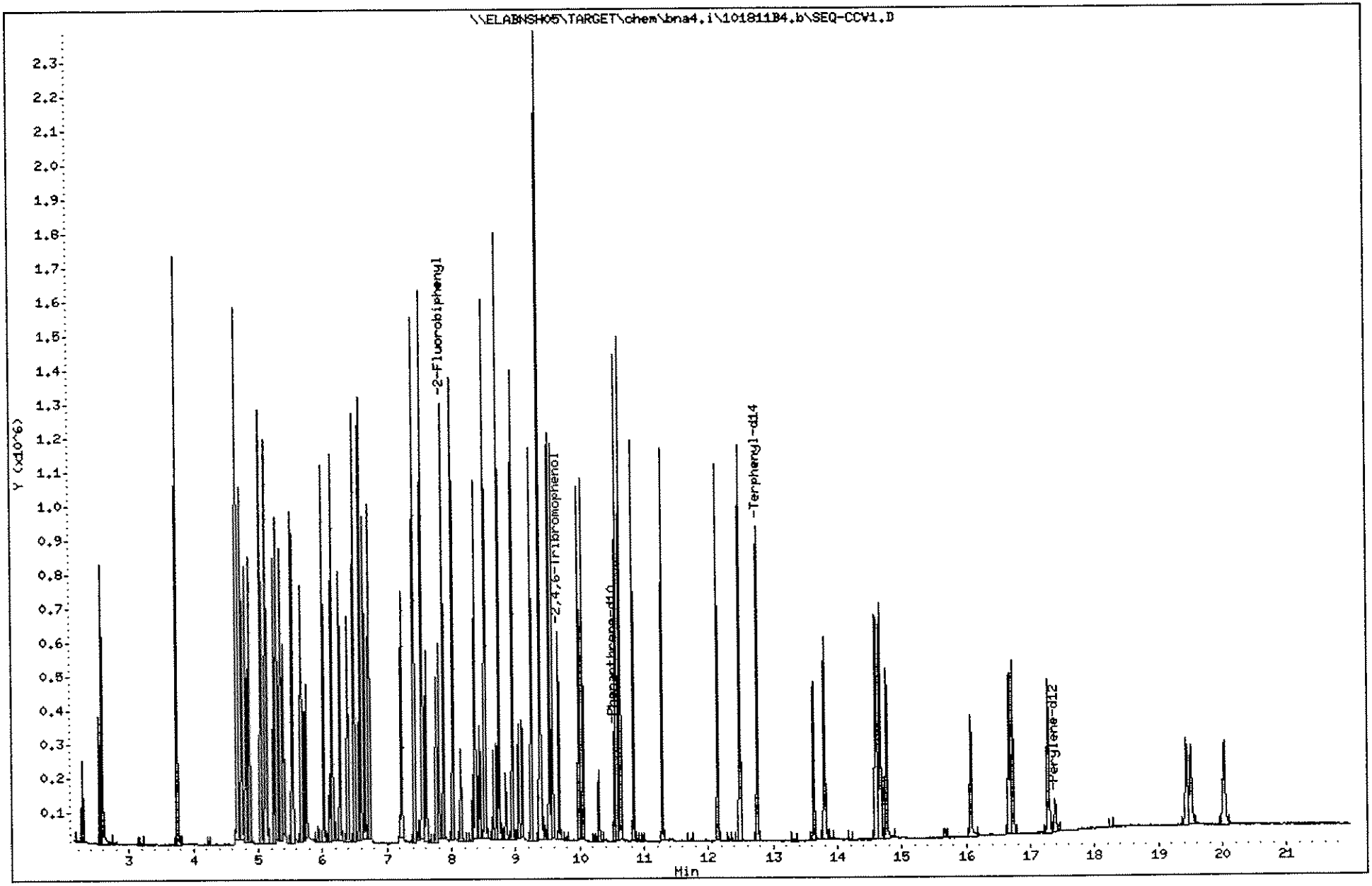
Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	AMOUNTS CAL-AMT (ng/ul)	AMOUNTS ON-COL (ng/ul)
140 Bis(2-ethylhexyl)phthalate	149	14.761	14.761	(0.849)	250478	5.00000	2.474
155 Di-n-octylphthalate	149	16.072	16.072	(0.925)	300012	5.00000	2.143
156 Benzo(b)fluoranthene	252	16.676	16.676	(0.959)	351300	5.00000	4.291
157 Benzo(k)fluoranthene	252	16.722	16.722	(0.962)	377857	5.00000	4.561
158 Benzo(a)pyrene	252	17.280	17.280	(0.994)	313468	5.00000	4.543
159 Indeno(1,2,3-cd)pyrene	276	19.437	19.437	(1.118)	251918	5.00000	5.089
160 Dibenz(a,h)anthracene	278	19.511	19.511	(1.122)	231664	5.00000	4.769
161 Benzo(g,h,i)perylene	276	20.032	20.032	(1.152)	270259	5.00000	5.399

Data File: \\ELABNSH05\TARGET\chem\bna4.i\101811B4.b\SEQ-CCV1.D
Date : 18-OCT-2011 14:04
Client ID: SEQ-CCV1
Sample Info: CCV-5.0PPM;;;;;;11J0309

Column phase: fused silica

Instrument: bna4.i

Operator: MEC
Column diameter: 0.25



885

1109191

Data File: \\ELABNSH05\TARGET\chem\bna4.i\101811B4.b\I26926L1.D
Report Date: 19-Oct-2011 11:31

Laboratory Name

Data file : \\ELABNSH05\TARGET\chem\bna4.i\101811B4.b\I26926L1.D
Lab Smp Id: 1I26926-BS2 Client Smp ID: 1I26926-BS2
Inj Date : 18-OCT-2011 19:31 MS Autotune Date: 13-OCT-2011 14:17
Operator : MEC Inst ID: bna4.i
Smp Info : 1I26926-BS2;1;1000;1000;1;UG/L;27-SEP-2011
Misc Info : ;3;LCS;;;1I26926;pahmisc.sub;
Comment :
Method : \\ELABNSH05\TARGET\chem\bna4.i\101811B4.b\IXBN4LOW.m
Meth Date : 19-Oct-2011 11:27 mcobb Quant Type: ISTD
Cal Date : 24-AUG-2011 18:33 Cal File: SEQ-CAL9.D
Als bottle: 13 QC Sample: LCS
Dil Factor: 1.00000
Integrator: HP RTE Compound Sublist: pahmisc.sub
Target Version: 4.04
Processing Host: TARGET09_VM

Concentration Formula: Amt * DF * Uf * Vt* Vi/(Amt * Vi)

Name	Value	Description
DF	1.000	Dilution Factor
Uf	1.000	ng unit correction factor
Vt	1000.000	Volume of final extract (uL)
Vi	1.000	Volume injected (uL)
Amt	1000.000	Volume of initial extraction

10-21-11

Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS ON-COLUMN (ng/ul)	FINAL (ug/L)
* 102 Phenanthrene-d10	188	10.540	10.540	(1.000)	120630	1.00000	
4 1,4-Dioxane	88	2.285	2.267	(0.217)	704	0.02717	0.02717(aQR)
21 N-Nitroso-di-n-propylamine	70	5.548	5.548	(0.526)	33364	0.76469	0.7647
39 Isophorone	82	6.022	6.022	(0.571)	83970	0.71085	0.7108
51 Naphthalene	128	6.598	6.599	(0.626)	144311	0.80370	0.8037
53 Hexachlorobutadiene	225	6.729	6.738	(0.638)	28264	0.84441	0.8444
55 2-Methylnaphthalene	142	7.426	7.426	(0.705)	92015	0.85541	0.8554
56 1-Methylnaphthalene	142	7.547	7.547	(0.716)	90722	0.86992	0.8699
70 Hexachlorocyclopentadiene	237	7.612	7.612	(0.722)	11462	0.68621	0.6862
$ 74 2-Fluorobiphenyl	172	7.881	7.882	(0.748)	3469850	30.4412	30.44
77 Acenaphthylene	152	8.532	8.532	(0.809)	121248	0.77596	0.7760
80 Acenaphthene	153	8.746	8.746	(0.830)	88525	0.82631	0.8263
84 Dibenzofuran	168	8.960	8.960	(0.850)	121707	0.94179	0.9418
88 Fluorene	166	9.378	9.388	(0.890)	94004	0.92007	0.9201

10/19/11

Data File: \\ELABNSH05\TARGET\chem\bna4.i\101811B4.b\I26926L1.D
Report Date: 19-Oct-2011 11:31

Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS ON-COLUMN (ng/ul)	FINAL (ug/L)
104 Carbazole	167	10.838	10.838	(1.028)	97587	1.01682	1.017
110 Pentachlorophenol	266	10.298	10.308	(0.977)	8186	1.52831	1.528(R)
$ 107 2,4,6-Tribromophenol	330	9.685	9.685	(0.919)	1505816	72.1036	72.10
111 Phenanthrene	178	10.568	10.578	(1.003)	135968	0.96863	0.9686
109 Hexachlorobenzene	284	10.057	10.057	(0.954)	37925	0.87793	0.8779
112 Anthracene	178	10.633	10.633	(1.009)	116398	0.84601	0.8460
116 Fluoranthene	202	12.148	12.149	(1.153)	120103	0.90857	0.9086
134 Pyrene	202	12.492	12.493	(1.185)	121524	0.90562	0.9056
* 154 Perylene-d12	264	17.382	17.392	(1.000)	62363	1.00000	
$ 135 Terphenyl-d14	244	12.771	12.762	(1.212)	3687674	48.1993	48.20
138 Benzo(a)anthracene	228	14.603	14.603	(1.385)	79715	0.94801	0.9480
139 Chrysene	228	14.668	14.668	(1.392)	80812	0.95445	0.9544
140 Bis(2-ethylhexyl)phthalate	149	14.761	14.770	(0.849)	53946	0.52390	0.5239
155 Di-n-octylphthalate	149	16.071	16.081	(0.925)	67178	0.47186	0.4718
156 Benzo(b)fluoranthene	252	16.676	16.676	(0.959)	70679	0.84890	0.8489
157 Benzo(k)fluoranthene	252	16.722	16.732	(0.962)	74803	0.88776	0.8878
158 Benzo(a)pyrene	252	17.280	17.290	(0.994)	53188	0.75786	0.7578
159 Indeno(1,2,3-cd)pyrene	276	19.446	19.446	(1.119)	52457	1.04194	1.042
160 Dibenz(a,h)anthracene	278	19.511	19.511	(1.122)	45003	0.91097	0.9110
161 Benzo(g,h,i)perylene	276	20.032	20.041	(1.152)	58724	1.15350	1.153

QC Flag Legend

a - Target compound detected but, quantitated amount Below Limit Of Quantitation(BLOQ).
Q - Qualifier signal failed the ratio test.
R - Spike/Surrogate failed recovery limits.

Data File: \\ELABNSH05\TARGET\chem\bna4.i\101811B4.b\I26926L1.D
Report Date: 19-Oct-2011 11:31

Laboratory Name

RECOVERY REPORT

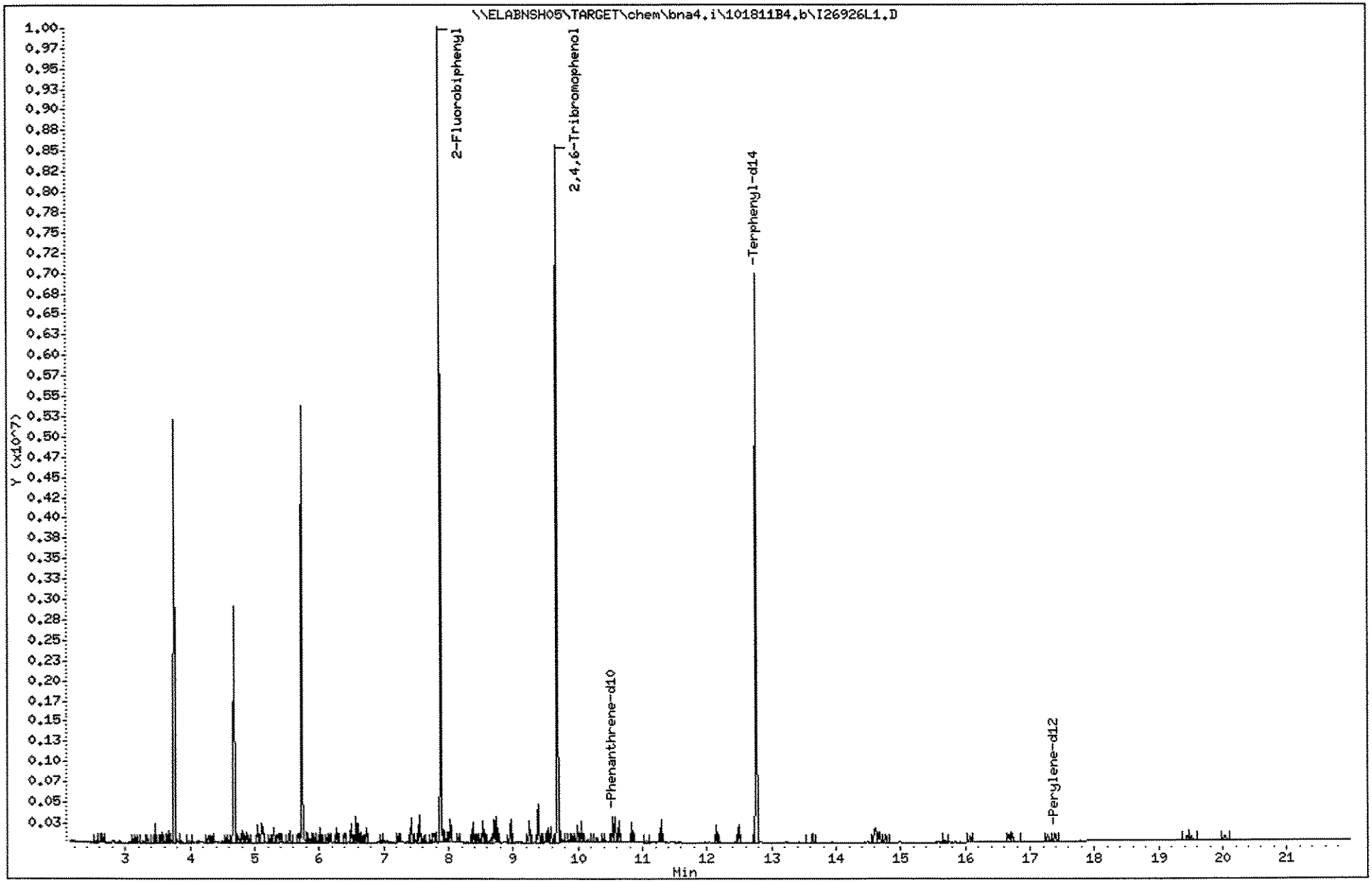
Client Name:
Sample Matrix: LIQUID
Lab Smp Id: 1I26926-BS2
Level: LOW
Data Type: MS DATA
SpikeList File: dodlcs.spk
Sublist File: pahmisc.sub
Method File: \\ELABNSH05\TARGET\chem\bna4.i\101811B4.b\IXBN4LOW.m
Misc Info: ;3;LCS;;;1I26926;pahmisc.sub;

Client SDG: SDGa78581
Fraction: SV
Client Smp ID: 1I26926-BS2
Operator: MEC
SampleType: LCS
Quant Type: ISTD

SPIKE COMPOUND	CONC ADDED ug/L	CONC RECOVERED ug/L	% RECOVERED	LIMITS
4 1,4-Dioxane	1.000	0.02717	2.72*	30-115
5 Pyridine	1.000	0.0000	*	10-110
6 N-Nitroso-di-meth	1.000	0.0000	*	25-110
7 Aniline	1.000	0.0000	*	10-110
9 Phenol	1.000	0.0000	*	0-115
11 bis(2-Chloroethyl	1.000	0.0000	*	35-110
12 2-Chlorophenol	1.000	0.0000	*	35-105
13 1,3-Dichlorobenze	1.000	0.0000	*	30-100
14 1,4-Dichlorobenze	1.000	0.0000	*	30-100
15 Benzyl alcohol	1.000	0.0000	*	30-110
16 1,2-Dichlorobenze	1.000	0.0000	*	35-100
17 2-Methylphenol	1.000	0.0000	*	40-110
18 bis(2-Chloroisopr	1.000	0.0000	*	25-130
20 4-Methylphenol	1.000	0.0000	*	30-110
21 N-Nitroso-di-n-pro	1.000	0.7647	76.47	35-130
22 Hexachloroethane	1.000	0.0000	*	30-95
32 Benzaldehyde	1.000	0.0000	*	10-180
35 Nitrobenzene	1.000	0.0000	*	45-110
39 Isophorone	1.000	0.7108	71.08	50-110
40 2-Nitrophenol	1.000	0.0000	*	40-115
42 2,4-Dimethylphenol	1.000	0.0000	*	30-110
43 Benzoic acid	1.000	0.0000	*	0-125
44 bis(2-Chloroethox	1.000	0.0000	*	45-105
47 2,4-Dichlorophenol	1.000	0.0000	*	50-105
50 1,2,4-Trichlorobe	1.000	0.0000	*	35-105
51 Naphthalene	1.000	0.8037	80.37	40-100
52 4-Chloroaniline	1.000	0.0000	*	15-110
53 Hexachlorobutadien	1.000	0.8444	84.44	25-105
54 4-Chloro-3-methyl	1.000	0.0000	*	45-110
55 2-Methylnaphthalen	1.000	0.8554	85.54	45-105
56 1-Methylnaphthalen	1.000	0.8699	86.99	30-115
57 Acetophenone	1.000	0.0000	*	50-110
67 1,2,4,5-Tetrachlo	1.000	0.0000	*	50-125

Data File: \\ELABNSH05\TARGET\chem\bna4.i\101811B4.b\I26926L1.D
Date : 18-OCT-2011 19:31
Client ID: 1I26926-BS2
Sample Info: 1I26926-BS2;1;1000;1000;1;UG/L;27-SEP-2011
Volume Injected (uL): 1.0
Column phase: fused silica

Instrument: bna4.i
Operator: MEC
Column diameter: 0.25



Data File: \\ELABNSH05\TARGET\chem\bna4.i\101811B4.b\I26926B1.D
Report Date: 19-Oct-2011 11:31

Laboratory Name

Data file : \\ELABNSH05\TARGET\chem\bna4.i\101811B4.b\I26926B1.D
Lab Smp Id: 1I26926-BLK2 Client Smp ID: 1I26926-BLK2
Inj Date : 18-OCT-2011 20:00 MS Autotune Date: 13-OCT-2011 14:17
Operator : MEC Inst ID: bna4.i
Smp Info : 1I26926-BLK2;1;1000;1000;1;UG/L;27-SEP-2011
Misc Info : ;3;BLANK;;;1I26926;pahmisc.sub;
Comment :
Method : \\ELABNSH05\TARGET\chem\bna4.i\101811B4.b\IXBN4LOW.m
Meth Date : 19-Oct-2011 11:27 mcobb Quant Type: ISTD
Cal Date : 24-AUG-2011 18:33 Cal File: SEQ-CAL9.D
Als bottle: 14 QC Sample: BLANK
Dil Factor: 1.00000
Integrator: HP RTE Compound Sublist: pahmisc.sub
Target Version: 4.04
Processing Host: TARGET09_VM

Concentration Formula: Amt * DF * Uf * Vt* Vi/(Amt * Vi)

Name	Value	Description
DF	1.000	Dilution Factor
Uf	1.000	ng unit correction factor
Vt	1000.000	Volume of final extract (uL)
Vi	1.000	Volume injected (uL)
Amt	1000.000	Volume of initial extraction

10-21-11

Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS ON-COLUMN (ng/ul)	FINAL (ug/L)
* 102 Phenanthrene-d10	188	10.540	10.540	(1.000)	118545	1.00000	
51 Naphthalene	128	6.599	6.599	(0.626)	3623	0.02053	0.02053(a)
53 Hexachlorobutadiene	225	6.738	6.738	(0.639)	900	0.02736	0.02736(a)
$ 74 2-Fluorobiphenyl	172	7.881	7.882	(0.748)	3224818	28.7891	28.79
84 Dibenzofuran	168	8.960	8.960	(0.850)	3151	0.02481	0.02481(a)
88 Fluorene	166	9.378	9.388	(0.890)	2425	0.02415	0.02415(a)
$ 107 2,4,6-Tribromophenol	330	9.685	9.685	(0.919)	1405149	68.4667	68.47
111 Phenanthrene	178	10.568	10.578	(1.003)	9881	0.07163	0.07163
116 Fluoranthene	202	12.148	12.149	(1.153)	4657	0.03585	0.03585(a)
134 Pyrene	202	12.492	12.493	(1.185)	3326	0.02522	0.02522(a)
* 154 Perylene-d12	264	17.382	17.392	(1.000)	54835	1.00000	
$ 135 Terphenyl-d14	244	12.771	12.762	(1.212)	3737112	49.7045	49.70
140 Bis(2-ethylhexyl)phthalate	149	14.761	14.770	(0.849)	3799	0.04196	0.04196(a)

10/19/11

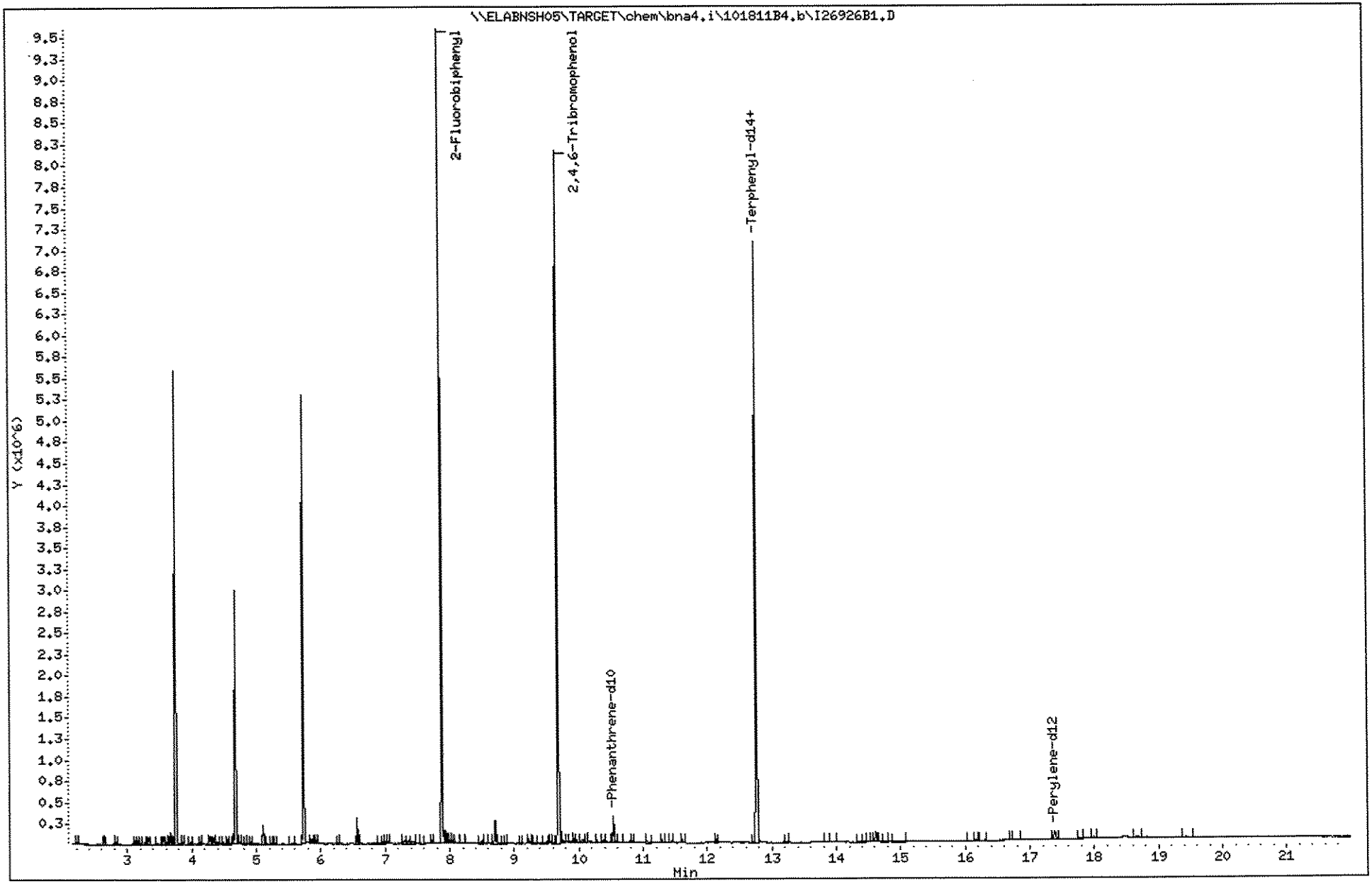
Data File: \\ELABNSH05\TARGET\chem\bna4.i\101811B4.b\I26926B1.D
Report Date: 19-Oct-2011 11:31

QC Flag Legend

a - Target compound detected but, quantitated amount
Below Limit Of Quantitation(BLOQ).

Data File: \\ELABNSH05\TARGET\chem\bna4.i\101811B4.b\I26926B1.D
Date : 18-OCT-2011 20:00
Client ID: 1I26926-BLK2
Sample Info: 1I26926-BLK2;1;1000;1000;1;UG/L;27-SEP-2011
Volume Injected (uL): 1.0
Column phase: fused silica

Instrument: bna4.i
Operator: MEC
Column diameter: 0.25



892

1109191

Data File: \\ELABNSH05\TARGET\chem\bna4.i\101811B4.b\I26926B1.D

Date : 18-OCT-2011 20:00

Client ID: 1I26926-BLK2

Instrument: bna4.i

Sample Info: 1I26926-BLK2;1;1000;1000;1;UG/L;27-SEP-2011

Volume Injected (uL): 1.0

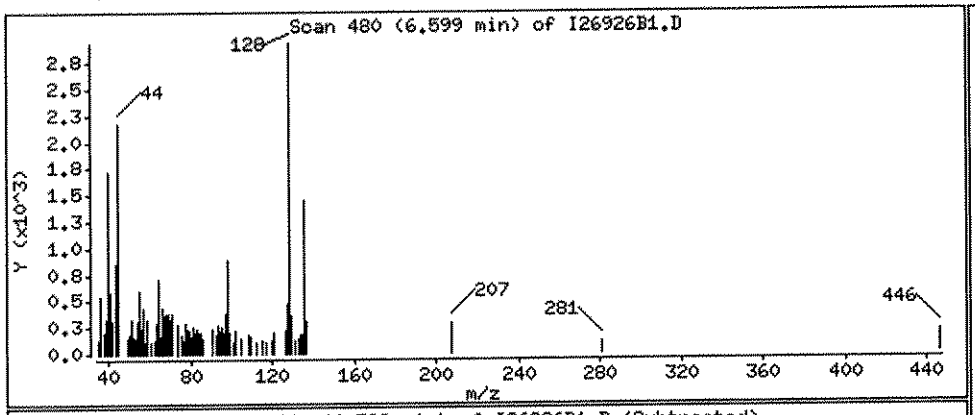
Operator: MEC

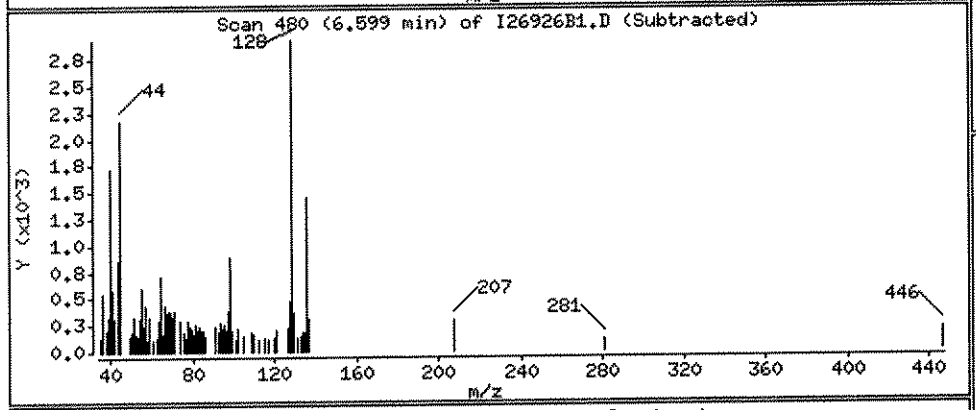
Column phase: fused silica

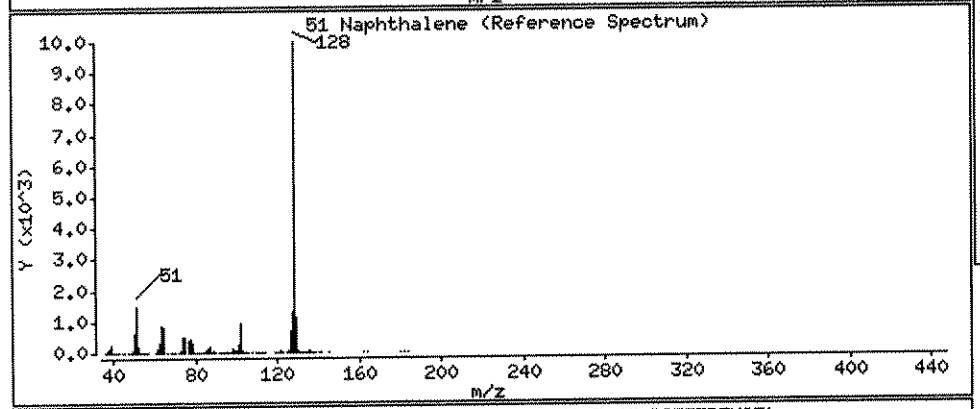
Column diameter: 0.25

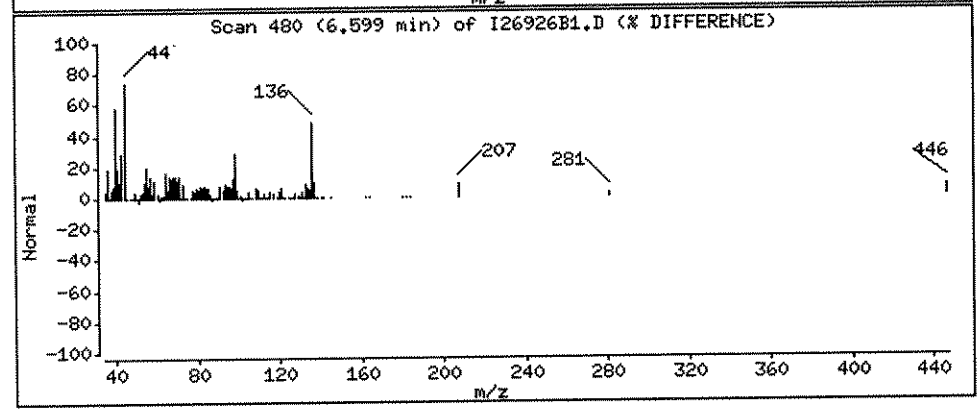
51 Naphthalene

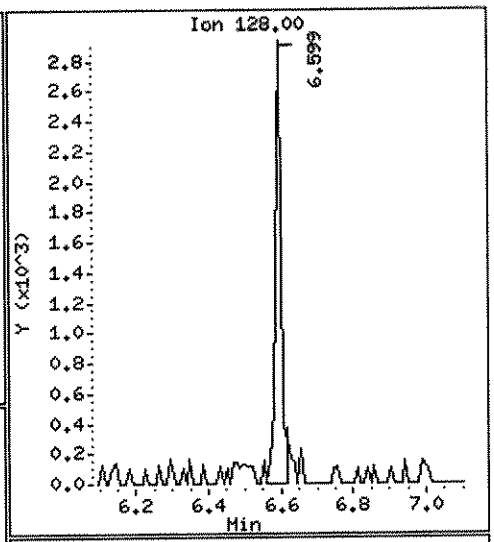
Concentration: 0.02053 ug/L

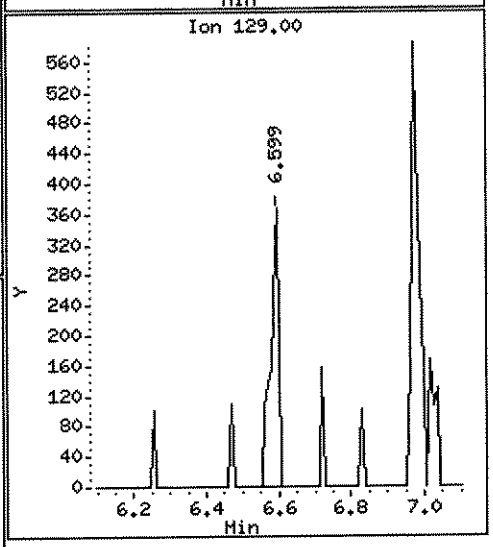












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Date : 18-OCT-2011 20:00

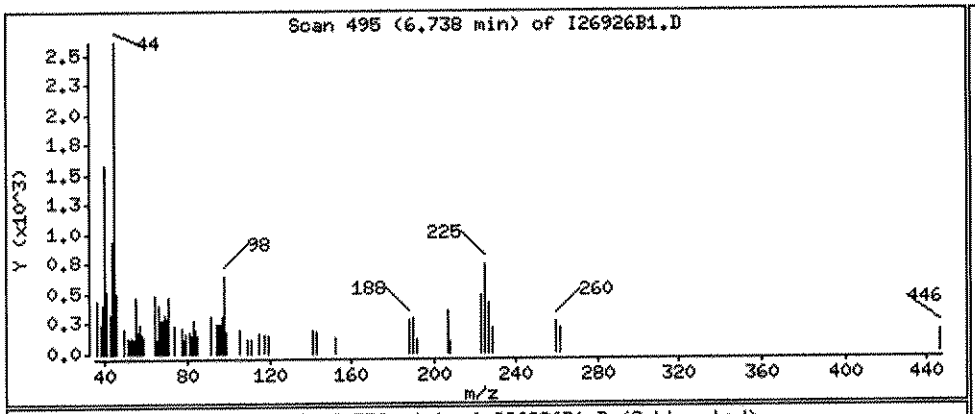
Client ID: 1I26926-BLK2 Instrument: bna4.i

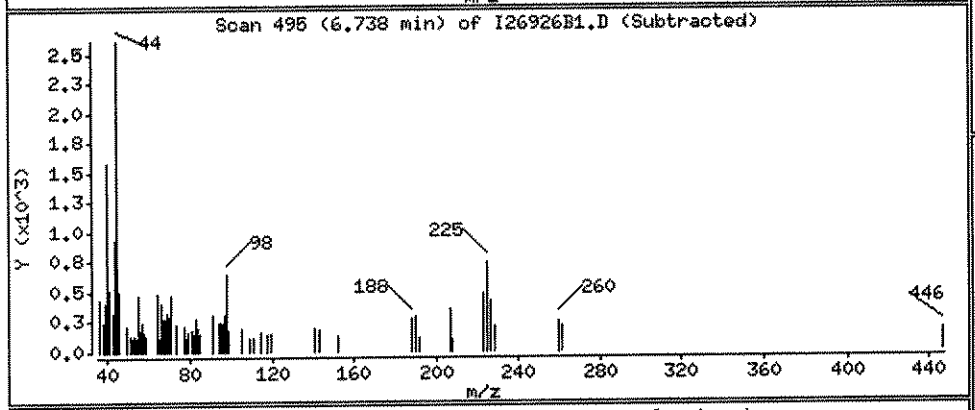
Sample Info: 1I26926-BLK2;1;1000;1000;1;UG/L;27-SEP-2011

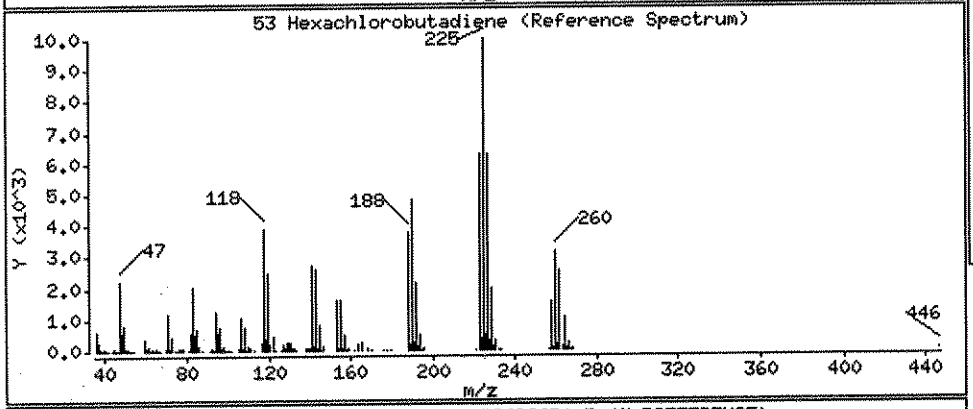
Volume Injected (uL): 1.0 Operator: MEC

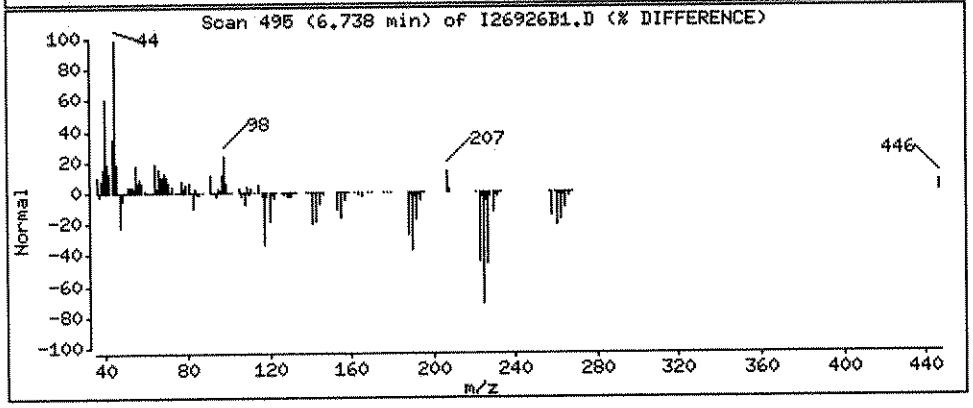
Column phase: fused silica Column diameter: 0.25

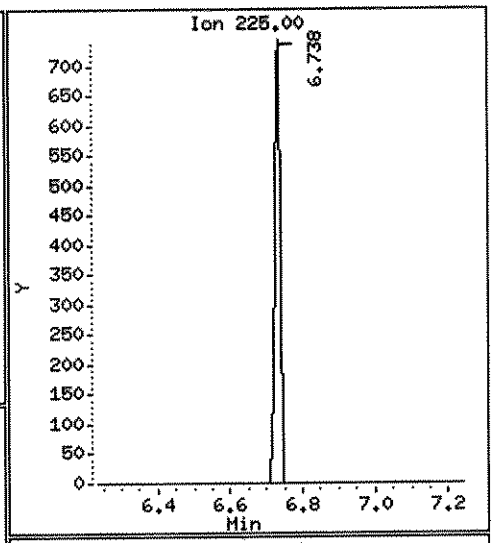
53 Hexachlorobutadiene Concentration: 0.02736 ug/L

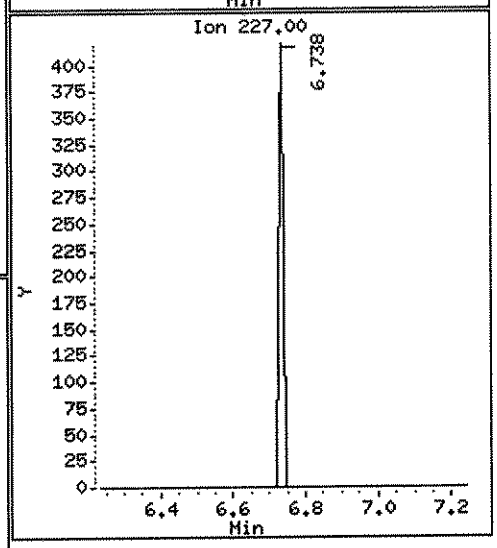












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Date : 18-OCT-2011 20:00

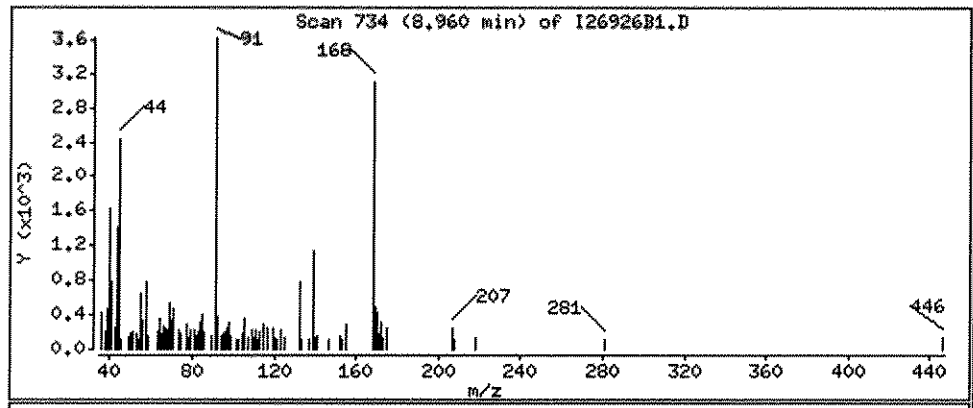
Client ID: 1I26926-BLK2 Instrument: bna4.i

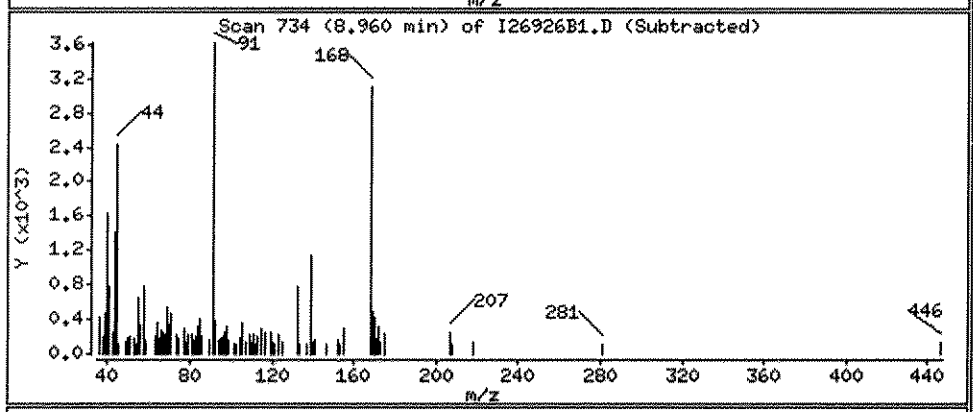
Sample Info: 1I26926-BLK2;1;1000;1000;1;UG/L;27-SEP-2011

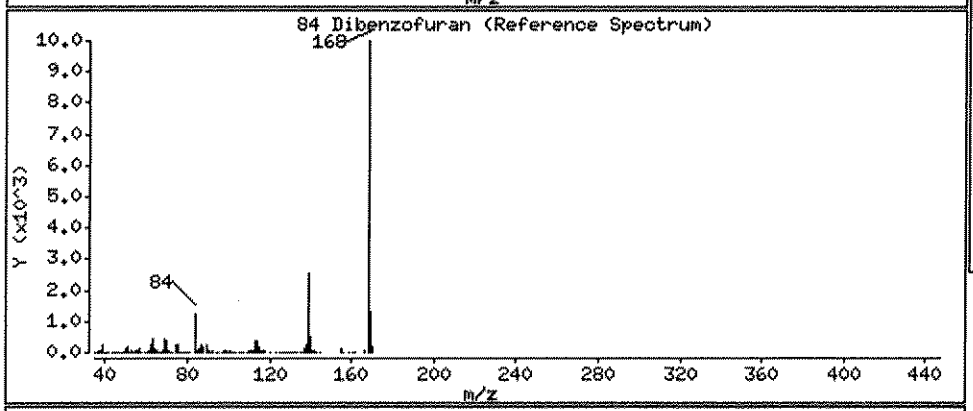
Volume Injected (uL): 1.0 Operator: MEC

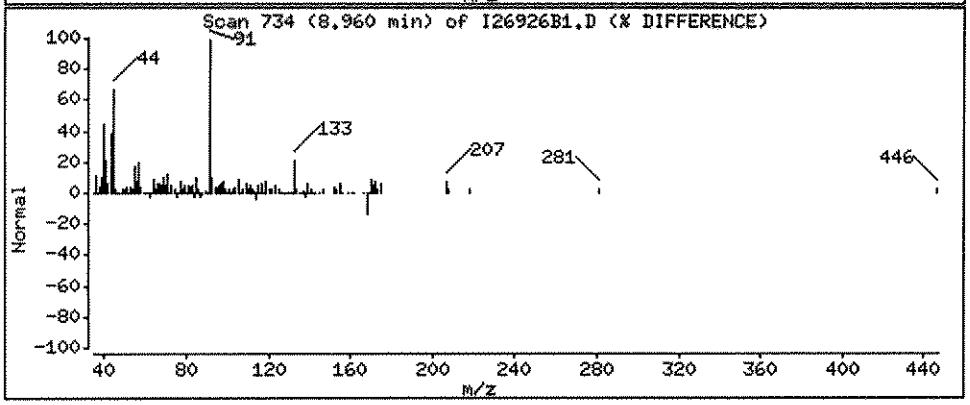
Column phase: fused silica Column diameter: 0.25

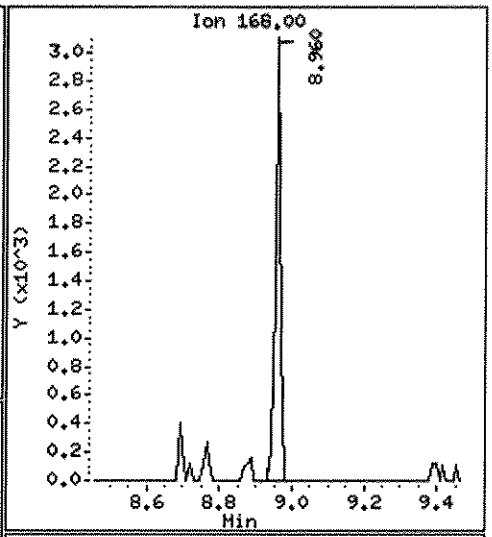
84 Dibenzofuran Concentration: 0.02481 ug/L

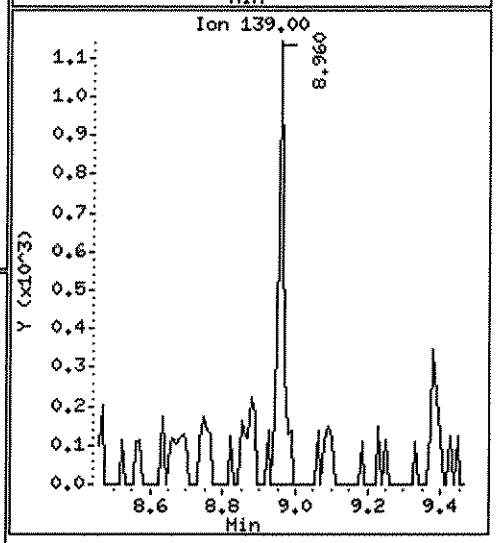












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Date : 18-OCT-2011 20:00

Client ID: 1I26926-BLK2

Instrument: bna4.i

Sample Info: 1I26926-BLK2;1;1000;1000;1;UG/L;27-SEP-2011

Volume Injected (uL): 1.0

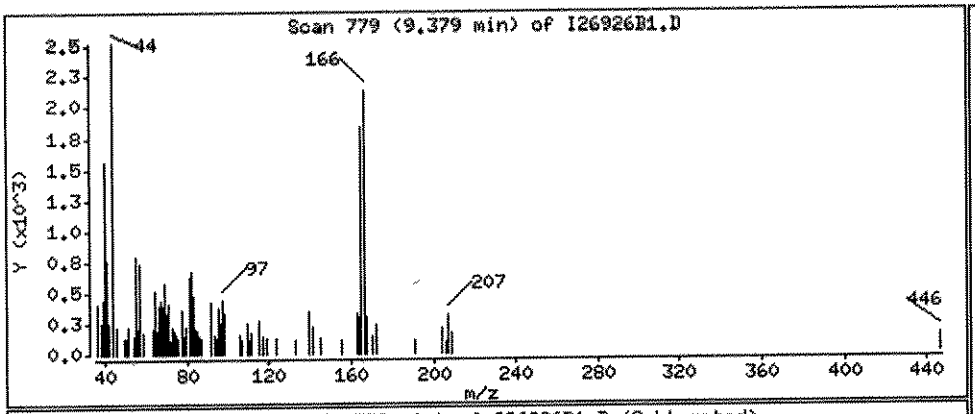
Operator: MEC

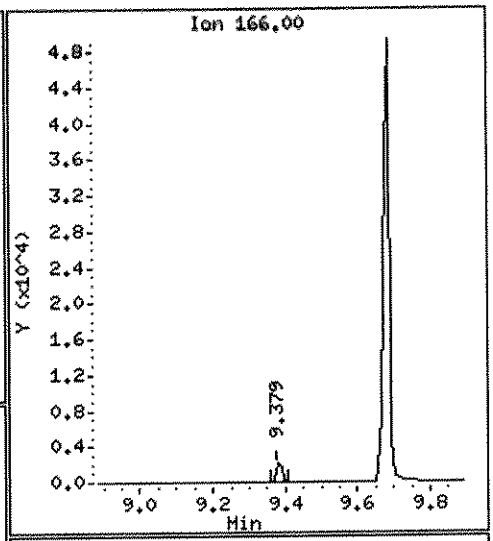
Column phase: fused silica

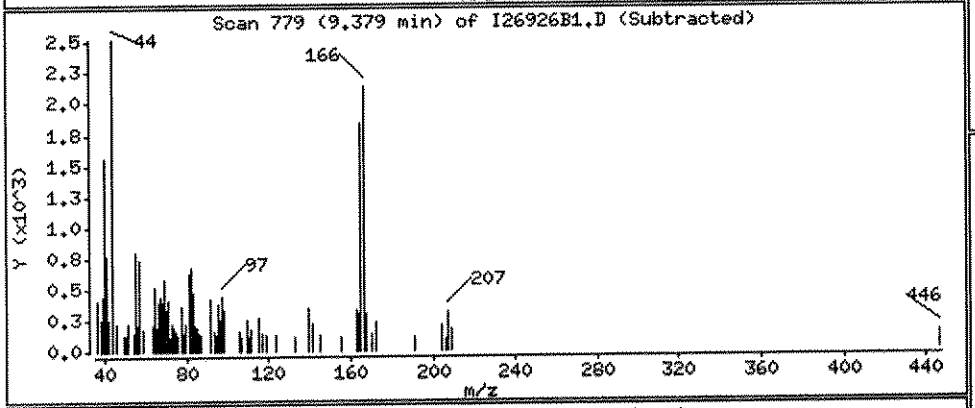
Column diameter: 0.25

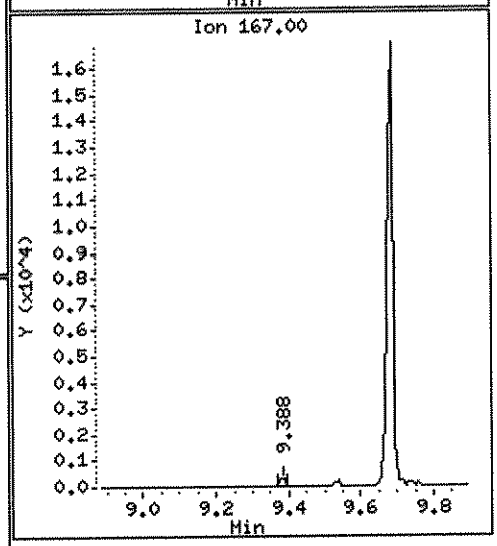
88 Fluorene

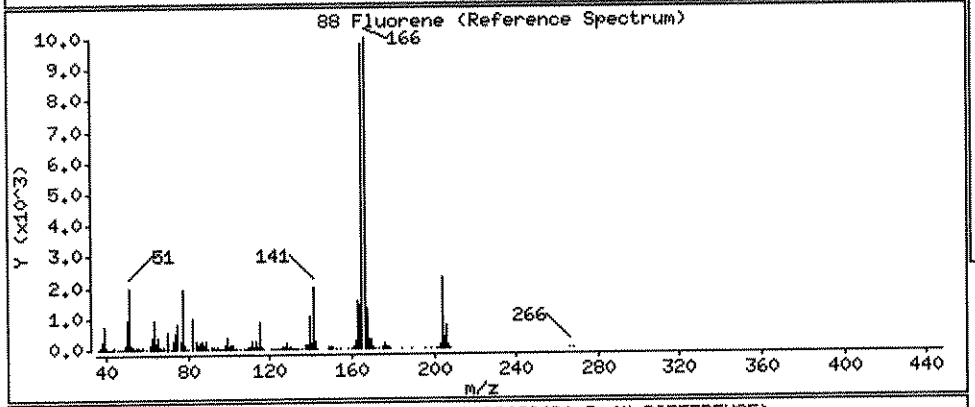
Concentration: 0.02415 ug/L

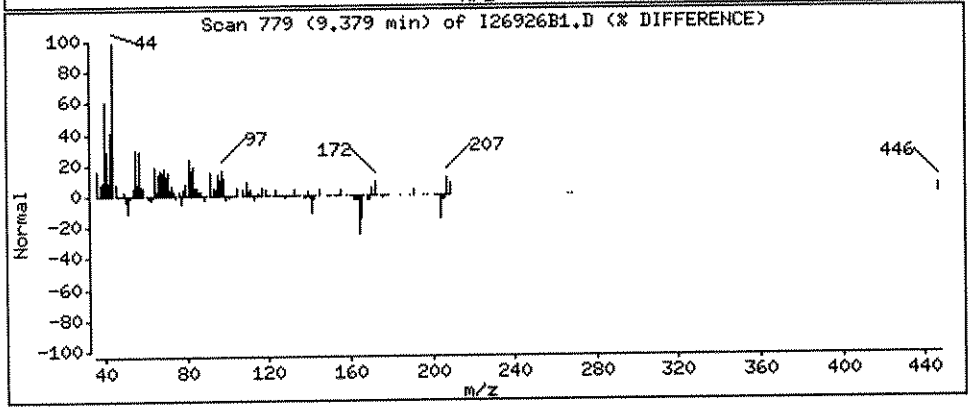












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Date : 18-OCT-2011 20:00

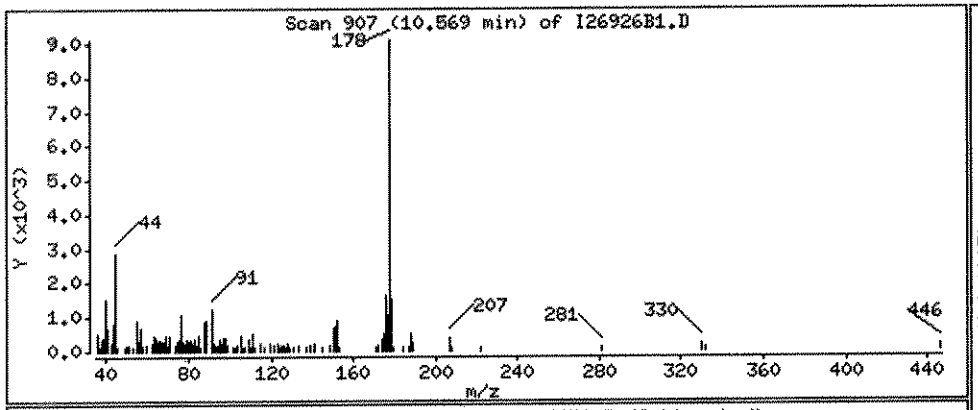
Client ID: 1I26926-BLK2 Instrument: bna4.i

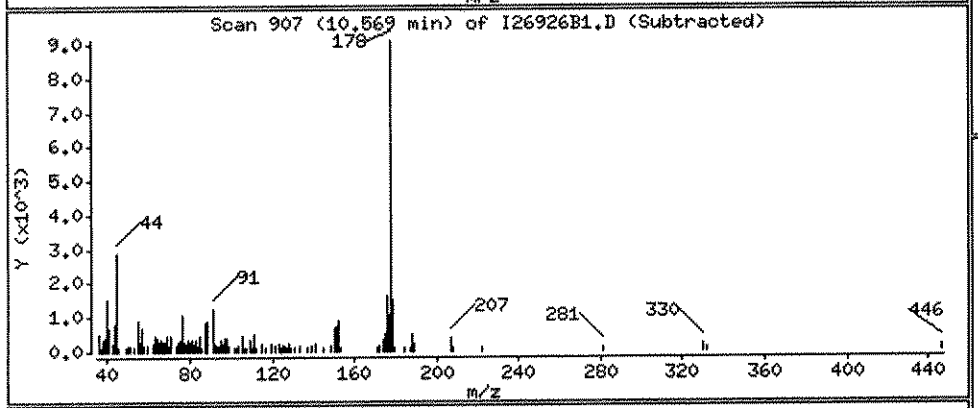
Sample Info: 1I26926-BLK2;1;1000;1000;1;UG/L;27-SEP-2011

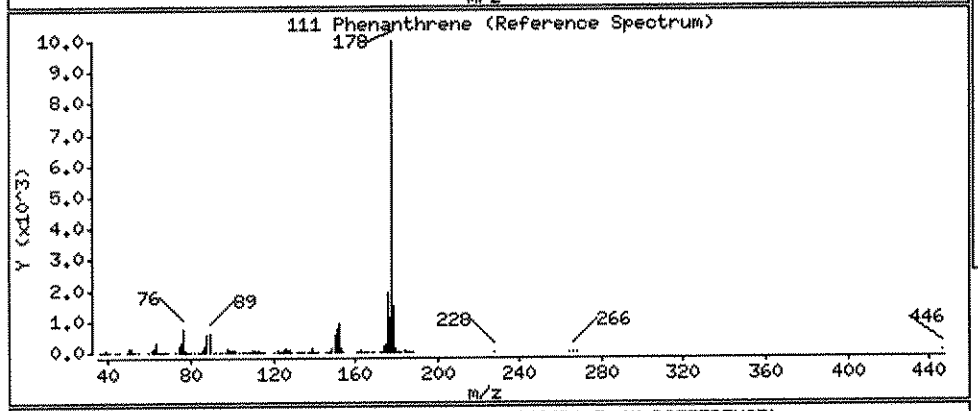
Volume Injected (uL): 1.0 Operator: MEC

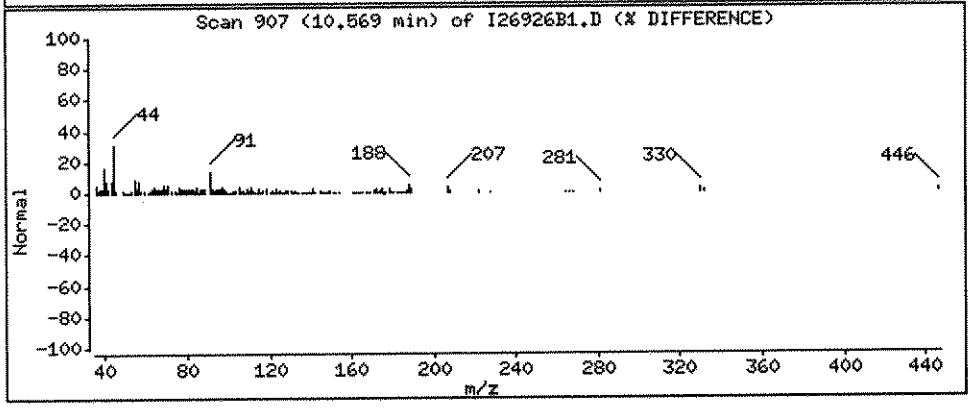
Column phase: fused silica Column diameter: 0.25

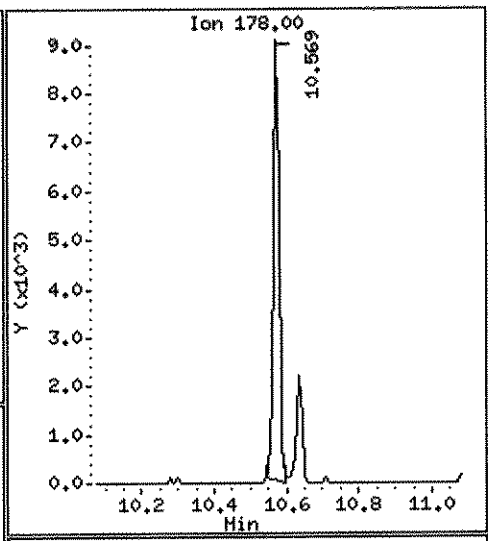
111 Phenanthrene Concentration: 0.07163 ug/L

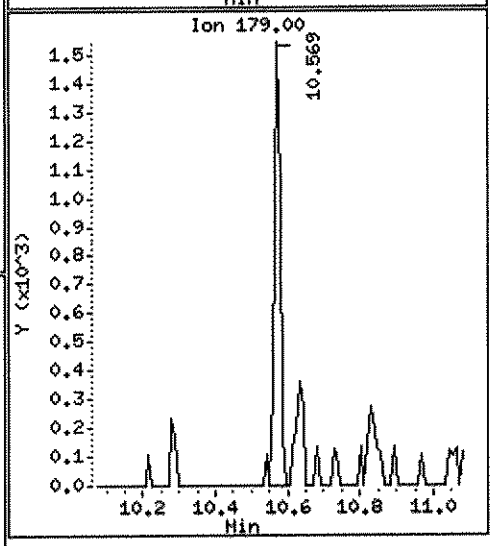












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Date : 18-OCT-2011 20:00

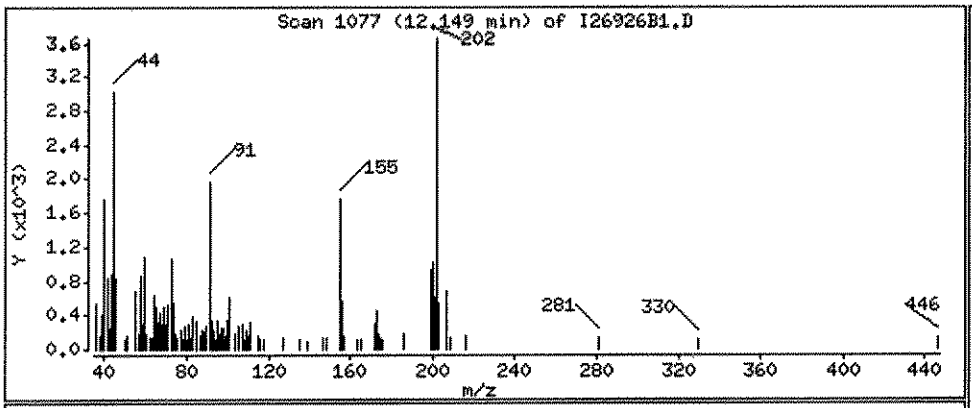
Client ID: 1I26926-BLK2 Instrument: bna4.i

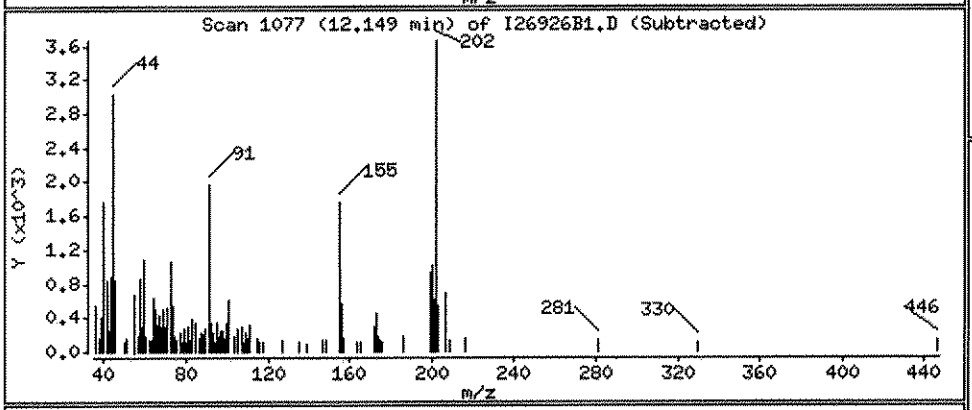
Sample Info: 1I26926-BLK2;1;1000;1000;1;UG/L;27-SEP-2011

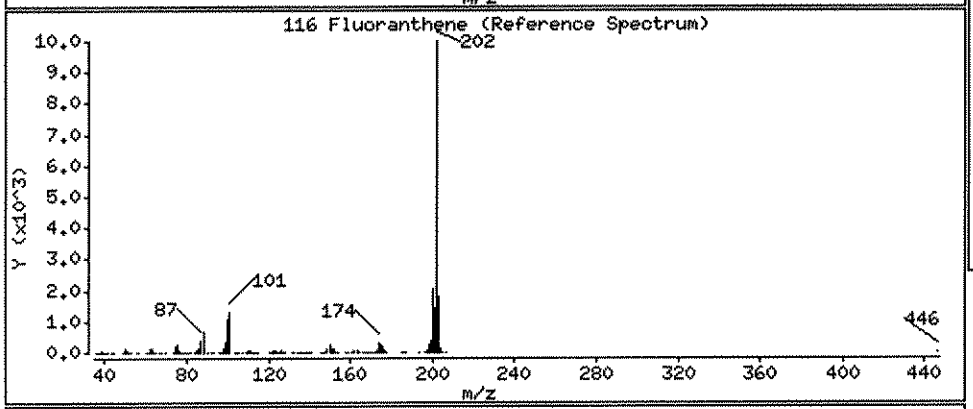
Volume Injected (uL): 1.0 Operator: MEC

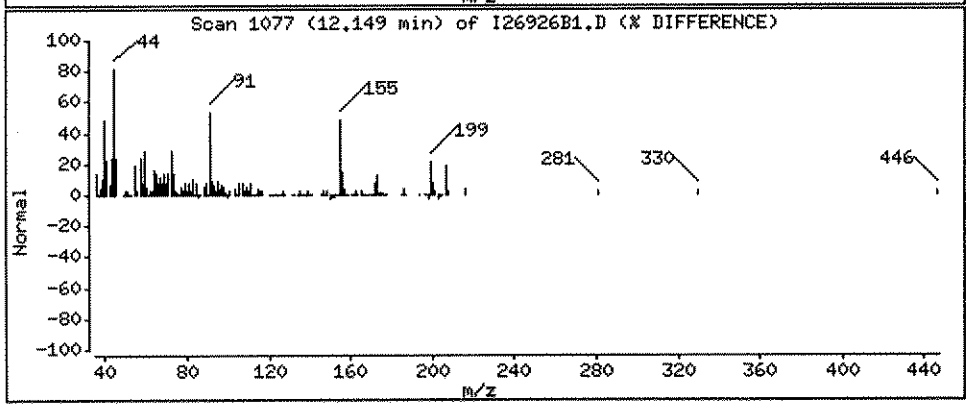
Column phase: fused silica Column diameter: 0.25

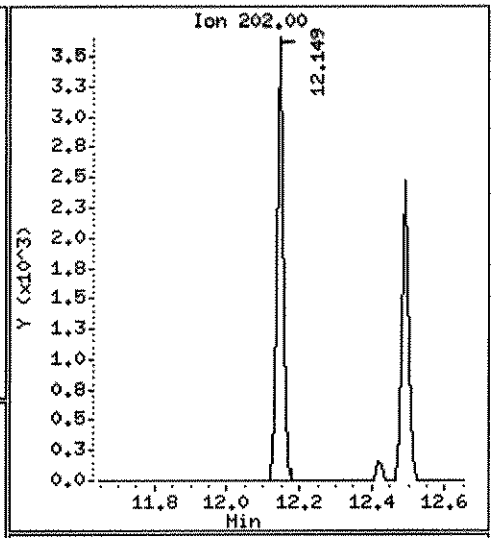
116 Fluoranthene Concentration: 0.03585 ug/L

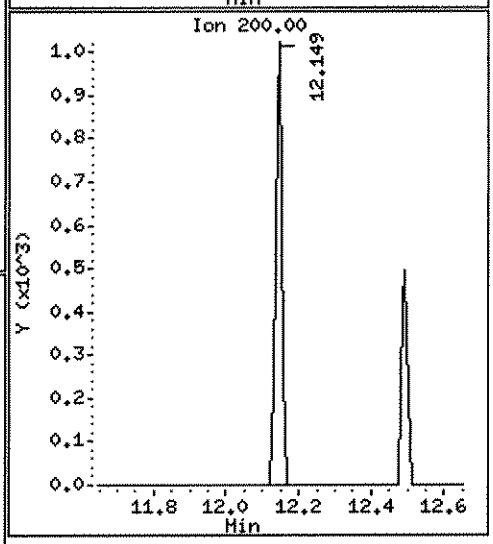












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Date : 18-OCT-2011 20:00

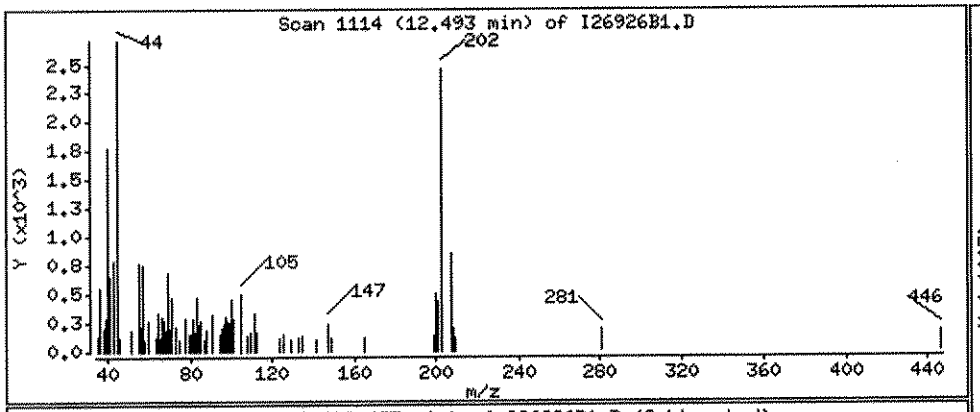
Client ID: 1I26926-BLK2 Instrument: bna4.i

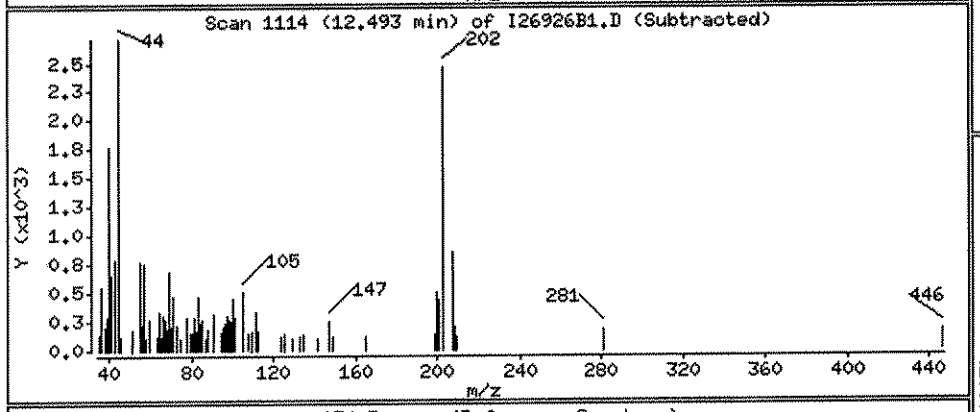
Sample Info: 1I26926-BLK2;1;1000;1000;1;UG/L;27-SEP-2011

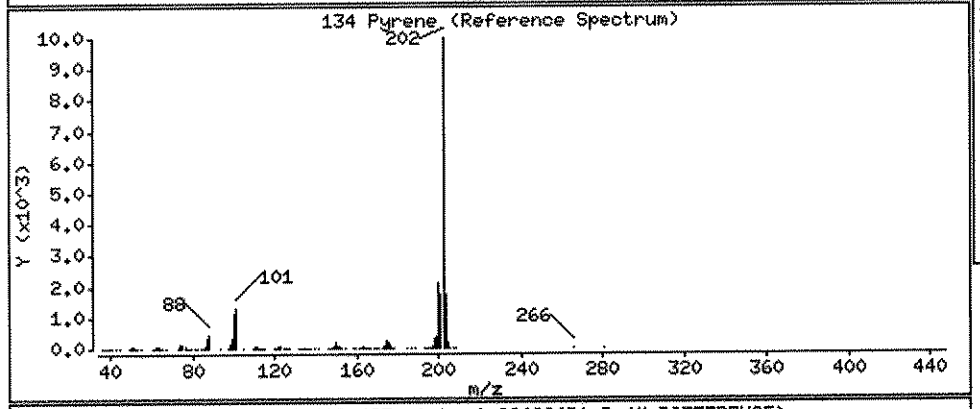
Volume Injected (uL): 1.0 Operator: MEC

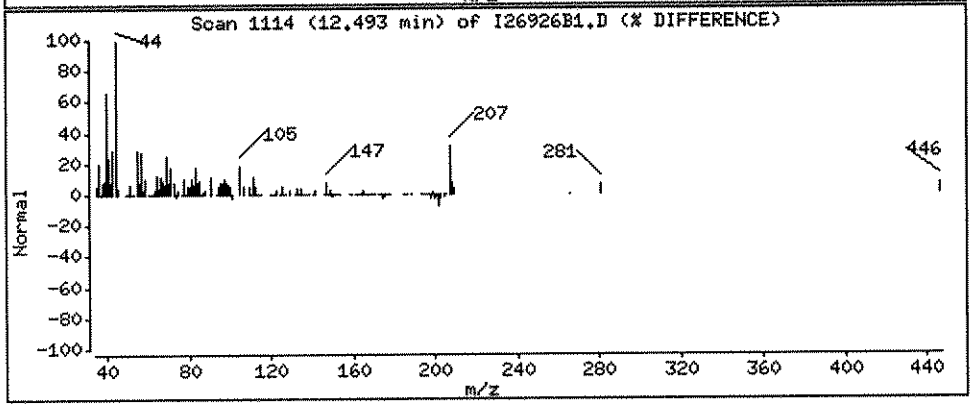
Column phase: fused silica Column diameter: 0.25

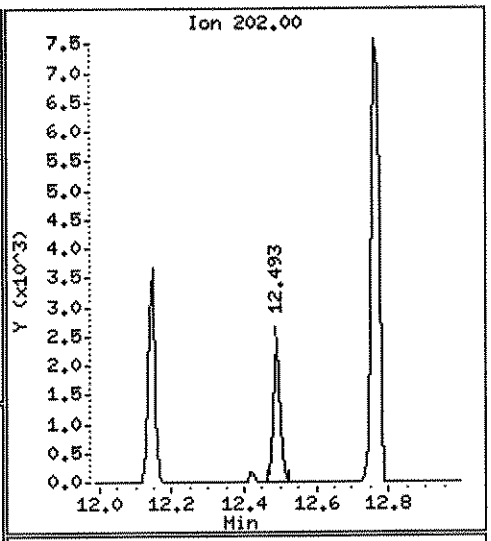
134 Pyrene Concentration: 0.02522 ug/L

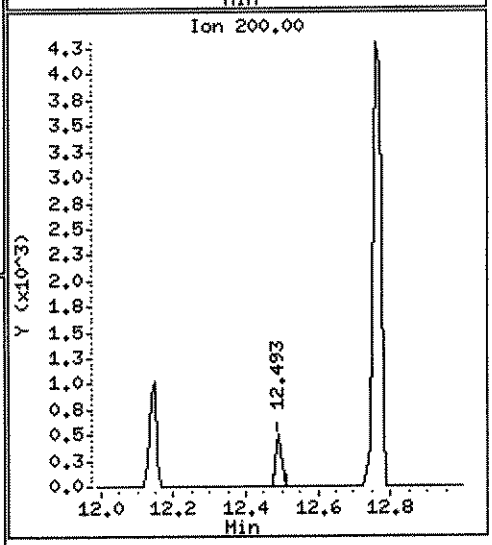












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Date : 18-OCT-2011 20:00

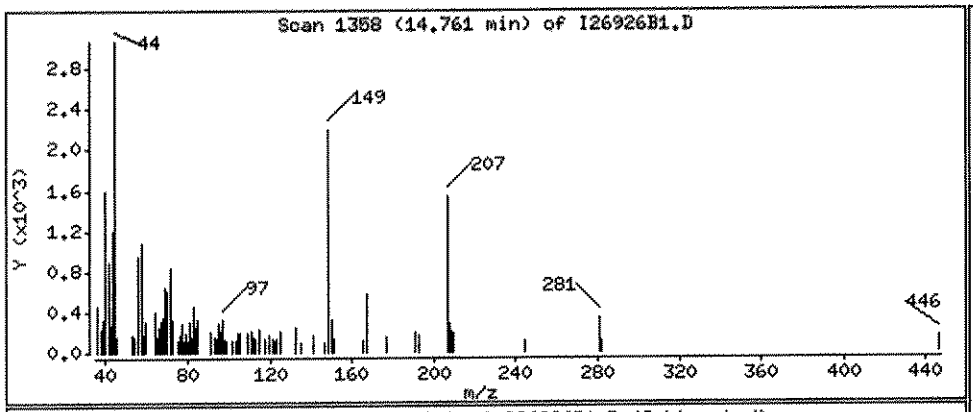
Client ID: 1I26926-BLK2 Instrument: bna4.i

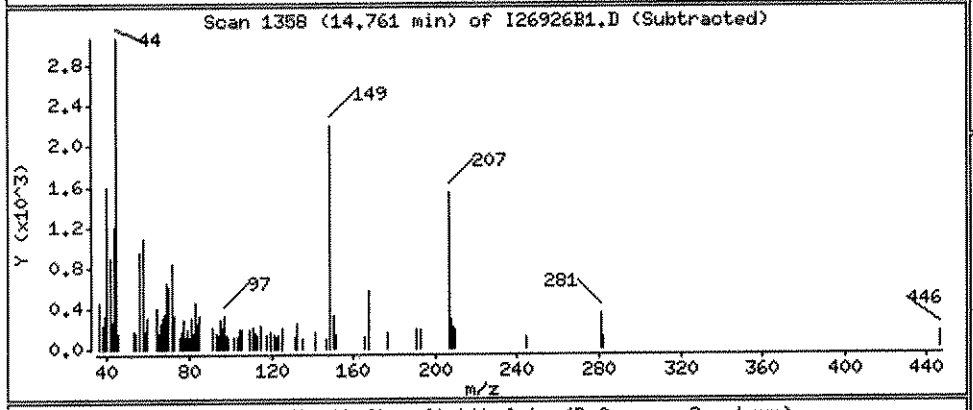
Sample Info: 1I26926-BLK2;1;1000;1000;1;UG/L;27-SEP-2011

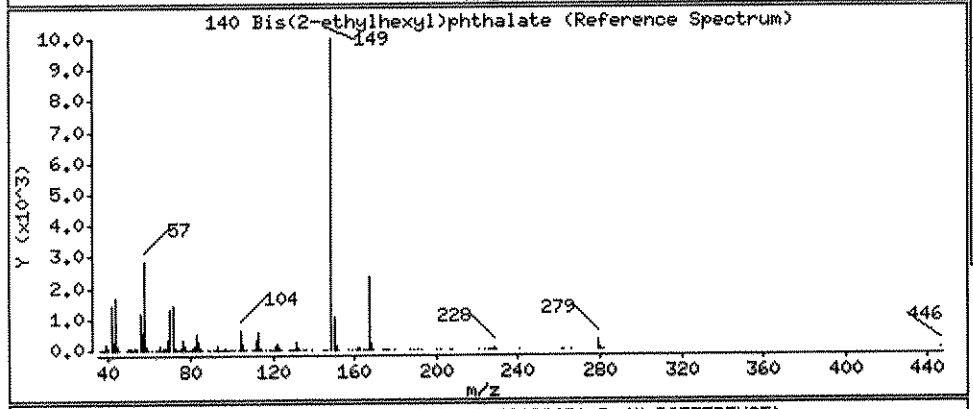
Volume Injected (uL): 1.0 Operator: MEC

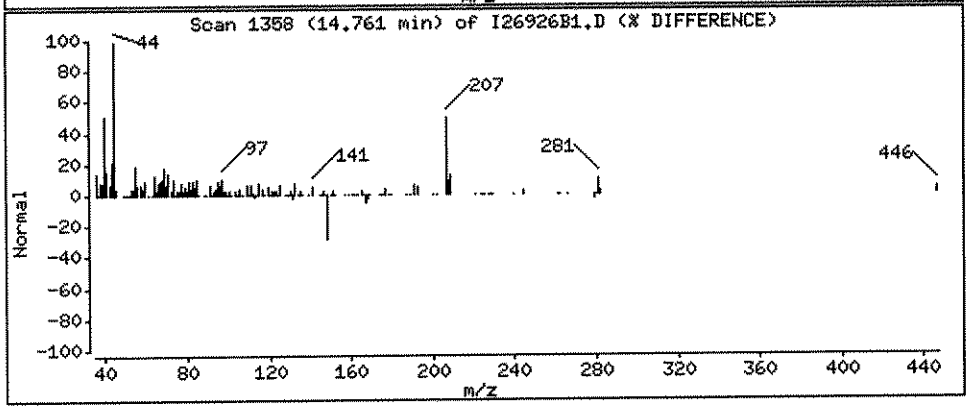
Column phase: fused silica Column diameter: 0.25

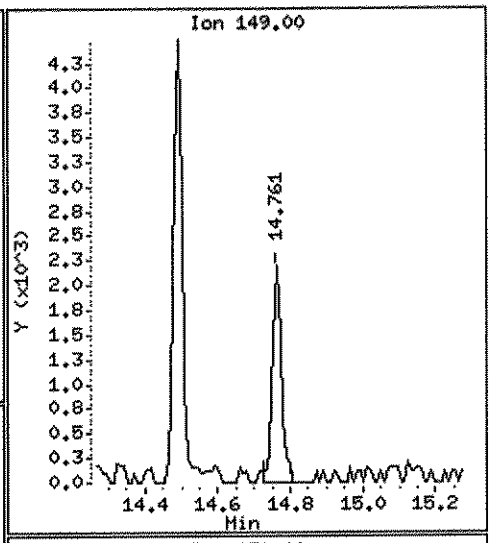
140 Bis(2-ethylhexyl)phthalate Concentration: 0.04196 ug/L

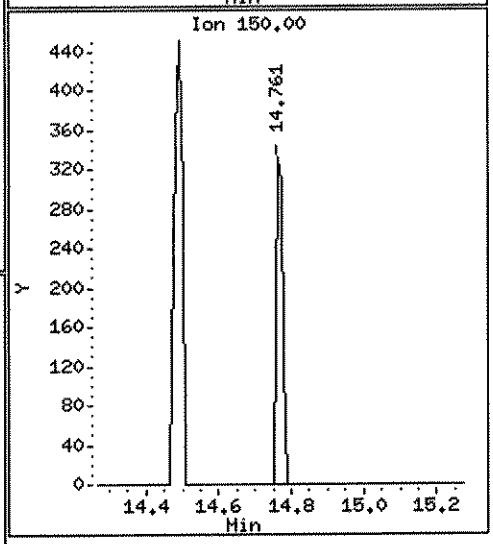












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Report Date: 19-Oct-2011 11:31

Laboratory Name

Data file : \\ELABNSH05\TARGET\chem\bna4.i\101811B4.b\0919110.D
Lab Smp Id: 1109191-10 Client Smp ID: FLC-4-RB01-092211
Inj Date : 18-OCT-2011 20:30 MS Autotune Date: 13-OCT-2011 14:17
Operator : MEC Inst ID: bna4.i
Smp Info : 1109191-10;1;1000;1000;1;UG/L;27-SEP-2011
Misc Info : ;0;;;;1I26926;pahmisc.sub;
Comment :
Method : \\ELABNSH05\TARGET\chem\bna4.i\101811B4.b\IXBN4LOW.m
Meth Date : 19-Oct-2011 11:27 mcobb Quant Type: ISTD
Cal Date : 24-AUG-2011 18:33 Cal File: SEQ-CAL9.D
Als bottle: 15
Dil Factor: 1.00000
Integrator: HP RTE Compound Sublist: pahmisc.sub
Target Version: 4.04
Processing Host: TARGET09_VM

Concentration Formula: Amt * DF * Uf * Vt* Vi/(Amt * Vi)

Name	Value	Description
DF	1.000	Dilution Factor
Uf	1.000	ng unit correction factor
Vt	1000.000	Volume of final extract (uL)
Vi	1.000	Volume injected (uL)
Amt	1000.000	Volume of initial extraction

10-21-11

Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS ON-COLUMN (ng/ul)	FINAL (UG/L)
* 102 Phenanthrene-d10	188	10.540	10.540	(1.000)	141560	1.00000	
51 Naphthalene	128	6.599	6.599	(0.626)	13422	0.06370	0.06370
$ 74 2-Fluorobiphenyl	172	7.881	7.882	(0.748)	3070108	22.9519	22.95
84 Dibenzofuran	168	8.960	8.960	(0.850)	3280	0.02163	0.02163(a)
88 Fluorene	166	9.378	9.388	(0.890)	2431	0.02028	0.02028(a)
$ 107 2,4,6-Tribromophenol	330	9.685	9.685	(0.919)	1570303	64.0742	64.07
111 Phenanthrene	178	10.568	10.578	(1.003)	7079	0.04297	0.04297(a)
116 Fluoranthene	202	12.148	12.149	(1.153)	3131	0.02018	0.02018(a)
* 154 Perylene-d12	264	17.382	17.392	(1.000)	63731	1.00000	
$ 135 Terphenyl-d14	244	12.771	12.762	(1.212)	4066863	45.2962	45.30
140 Bis(2-ethylhexyl)phthalate	149	14.761	14.770	(0.849)	4825	0.04585	0.04585(a)
155 Di-n-octylphthalate	149	16.155	16.081	(0.929)	4438	0.03050	0.03050(a)

10/19/11

Data File: \\ELABNSH05\TARGET\chem\bna4.i\101811B4.b\0919110.D
Report Date: 19-Oct-2011 11:31

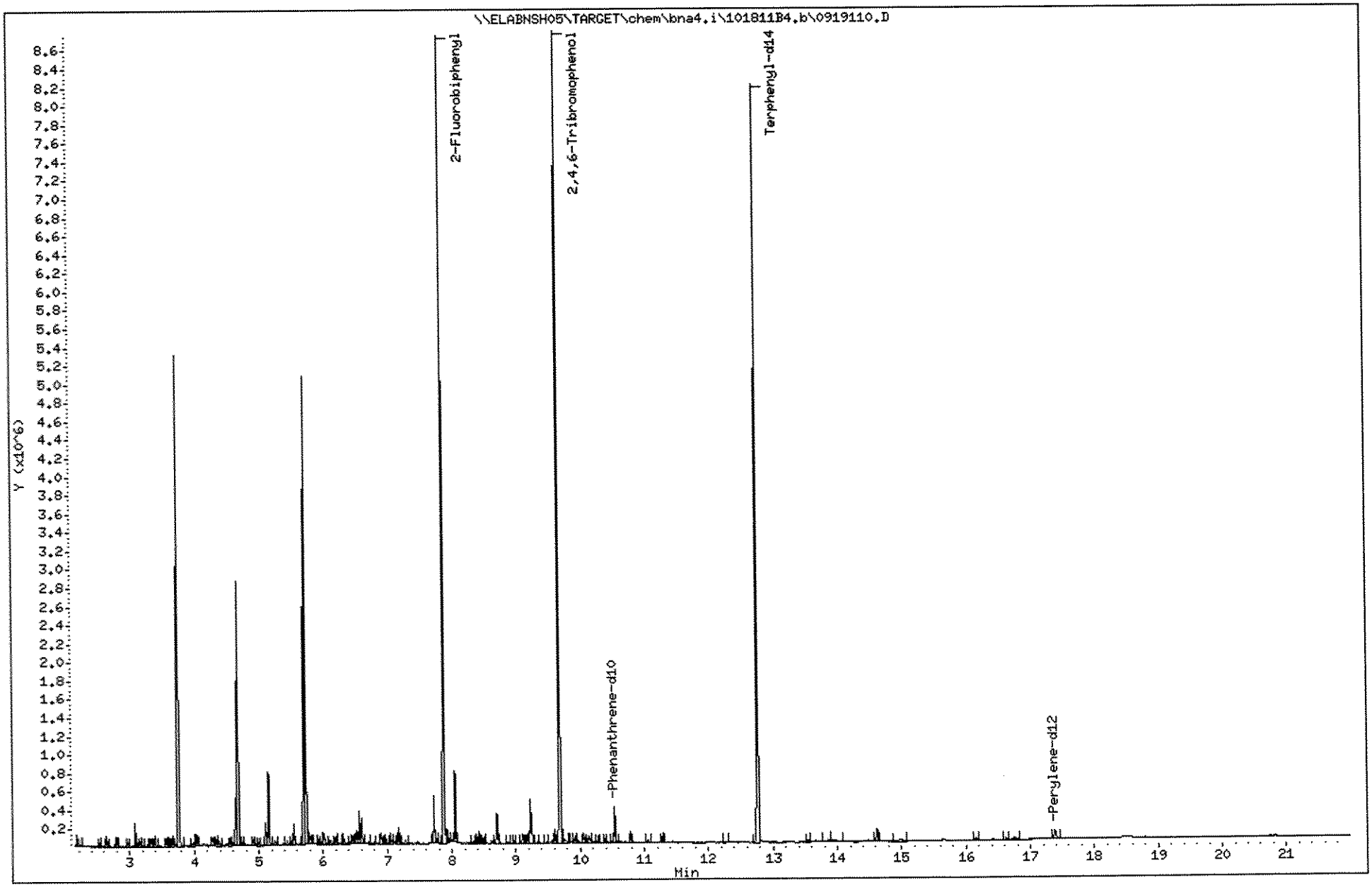
QC Flag Legend

a - Target compound detected but, quantitated amount
Below Limit Of Quantitation(BLOQ).

Data File: \\ELABNSH05\TARGET\chem\bna4.i\101811B4.b\0919110.D
Date : 18-OCT-2011 20:30
Client ID: FLC-4-RB01-092211
Sample Info: 1109191-10;1;1000;1000;1;UG/L;27-SEP-2011
Volume Injected (uL): 1.0
Column phase: fused silica

Instrument: bna4.i

Operator: HEC
Column diameter: 0.25



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Date : 18-OCT-2011 20:30

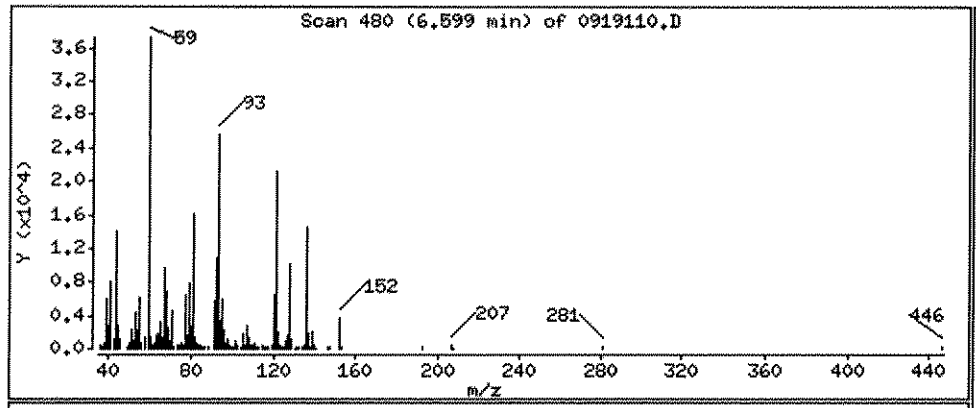
Client ID: FLC-4-RB01-092211 Instrument: bna4.i

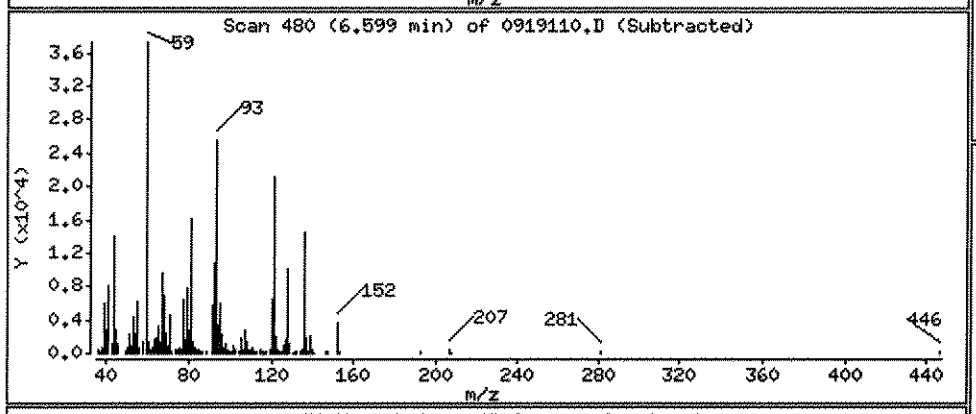
Sample Info: 1109191-10;1;1000;1000;1;UG/L;27-SEP-2011

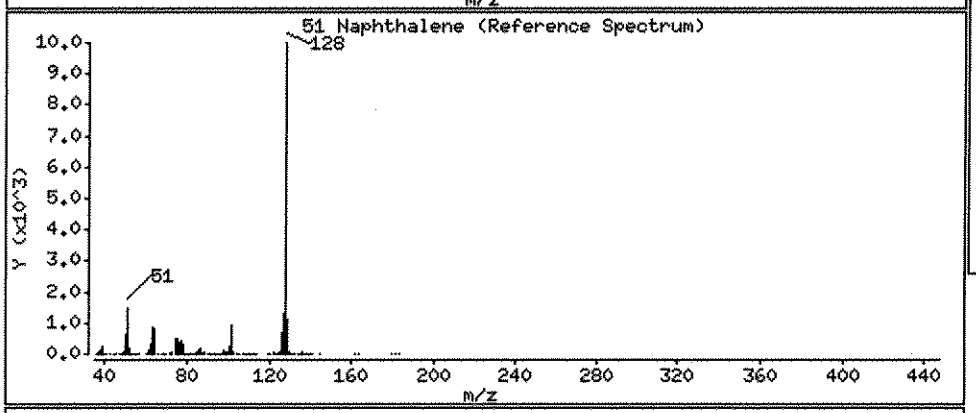
Volume Injected (uL): 1.0 Operator: MEC

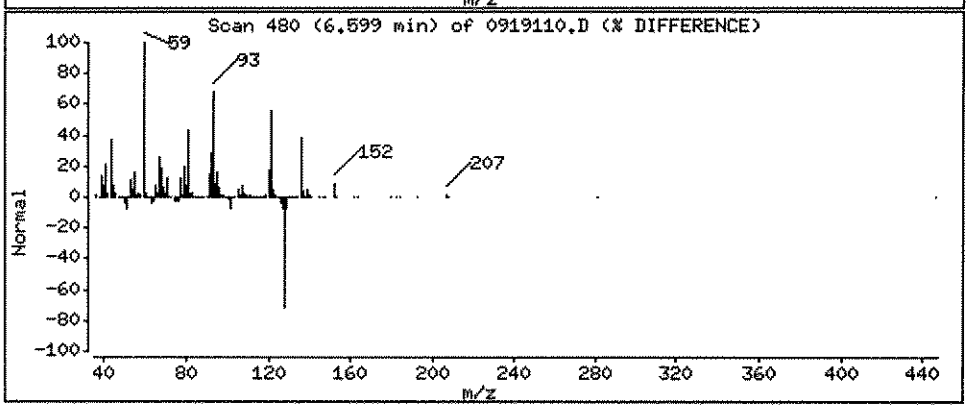
Column phase: fused silica Column diameter: 0.25

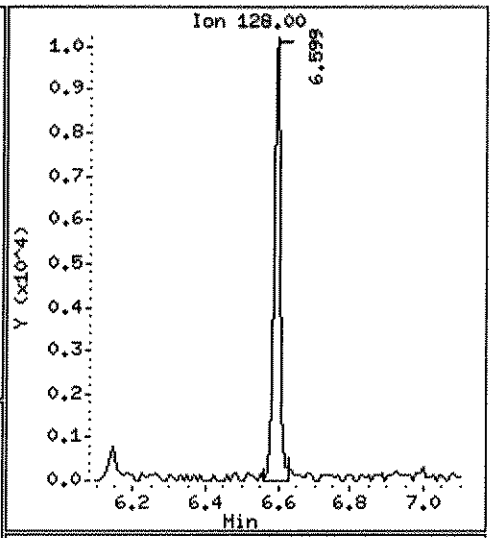
51 Naphthalene Concentration: 0.06370 UG/L

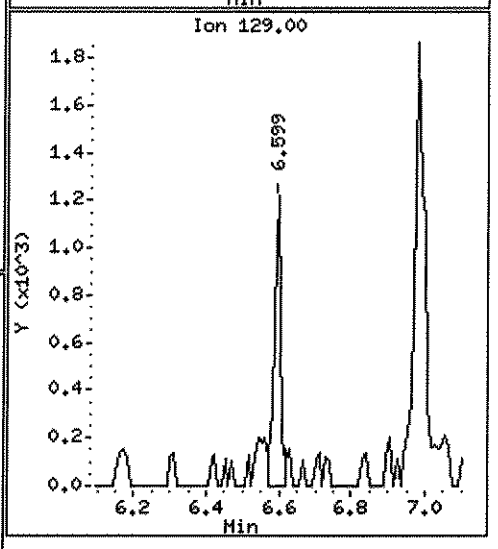












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Date : 18-OCT-2011 20:30

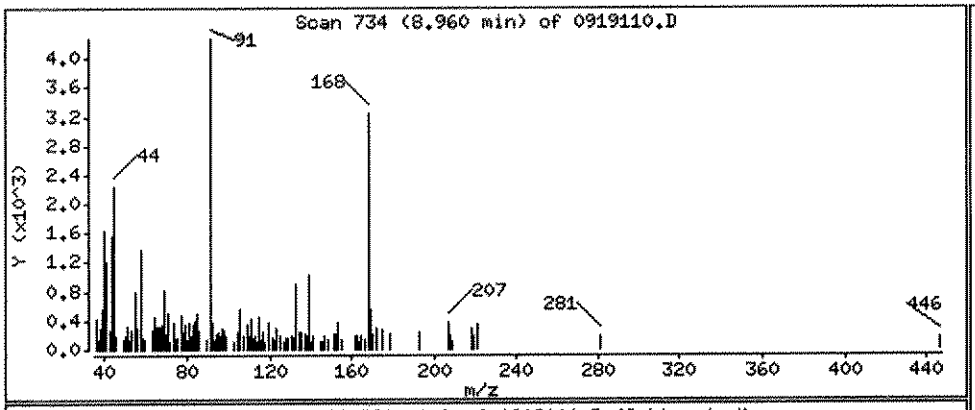
Client ID: FLC-4-RB01-092211 Instrument: bna4.i

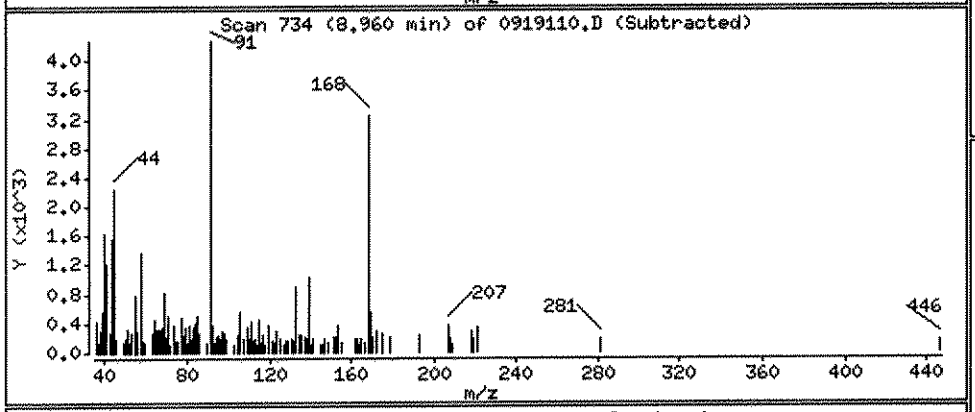
Sample Info: 1109191-10;1;1000;1000;1;UG/L;27-SEP-2011

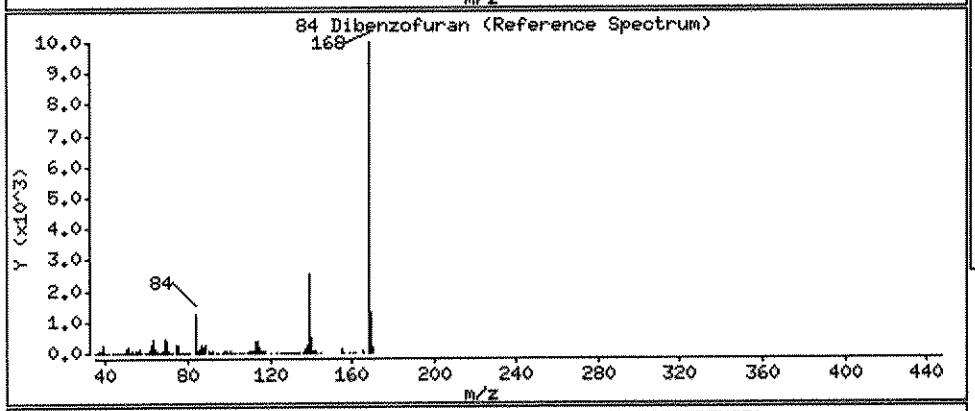
Volume Injected (uL): 1.0 Operator: MEC

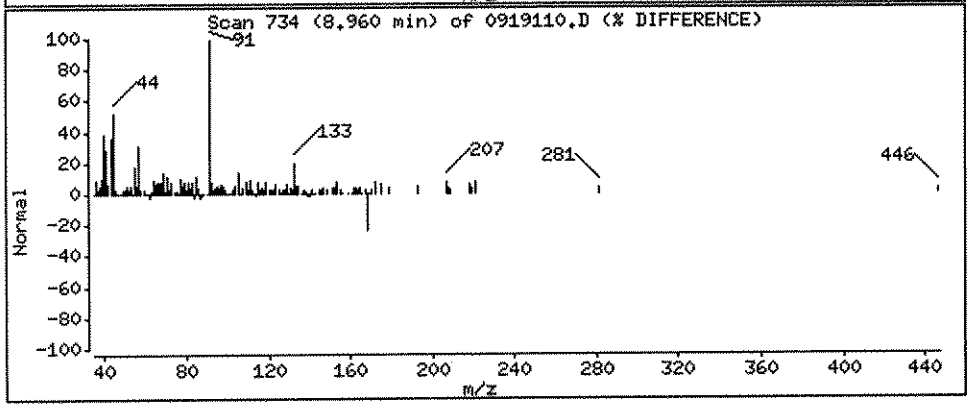
Column phase: fused silica Column diameter: 0.25

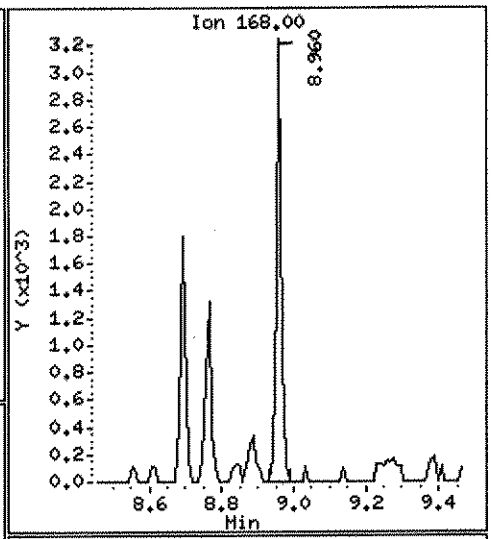
84 Dibenzofuran Concentration: 0.02163 UG/L

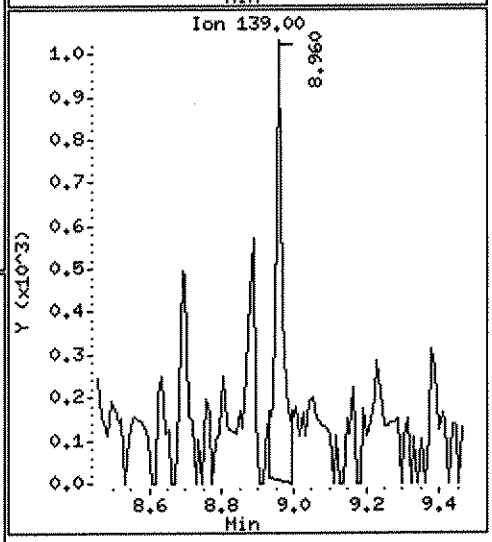












Data File: \\ELABNSH05\TARGET\chem\bna4.i\101811B4.b\0919110.D

Date : 18-OCT-2011 20:30

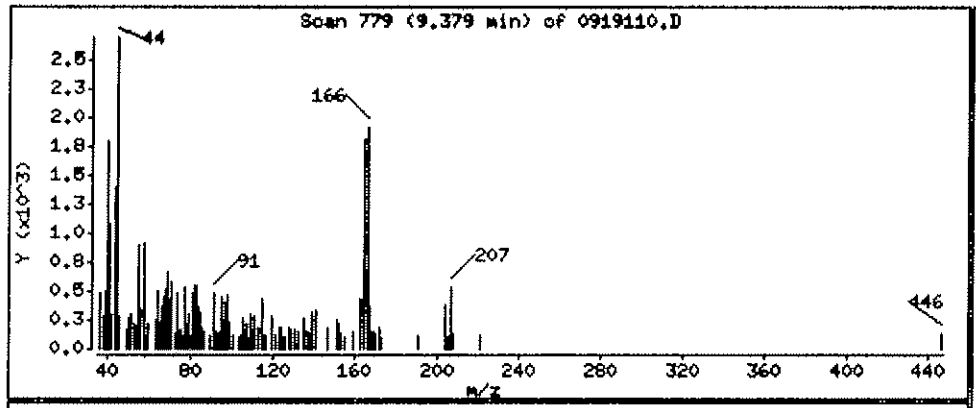
Client ID: FLC-4-RB01-092211 Instrument: bna4.i

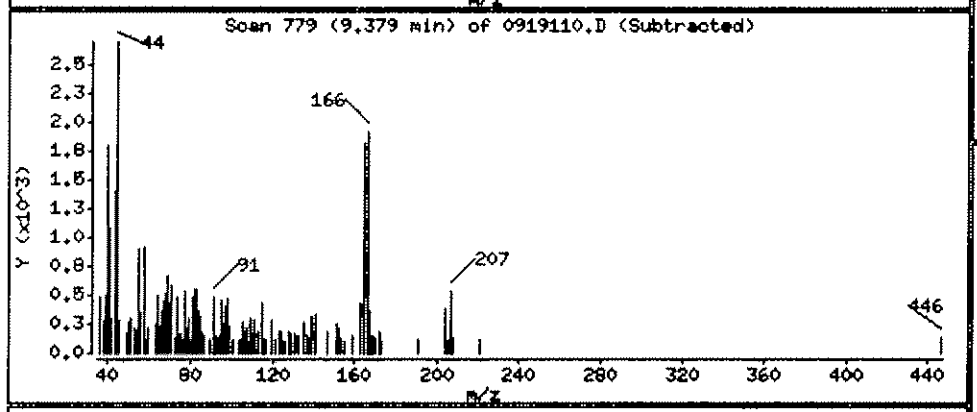
Sample Info: 1109191-10;1;1000;1000;1;UG/L;27-SEP-2011

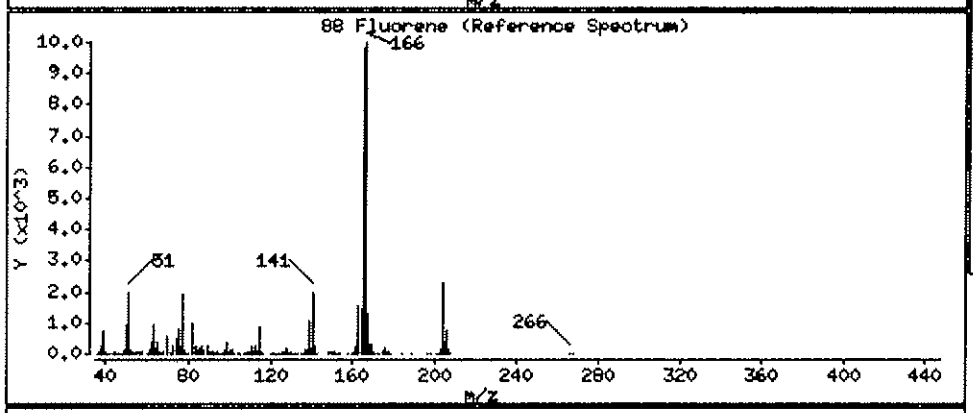
Volume Injected (uL): 1.0 Operator: HEC

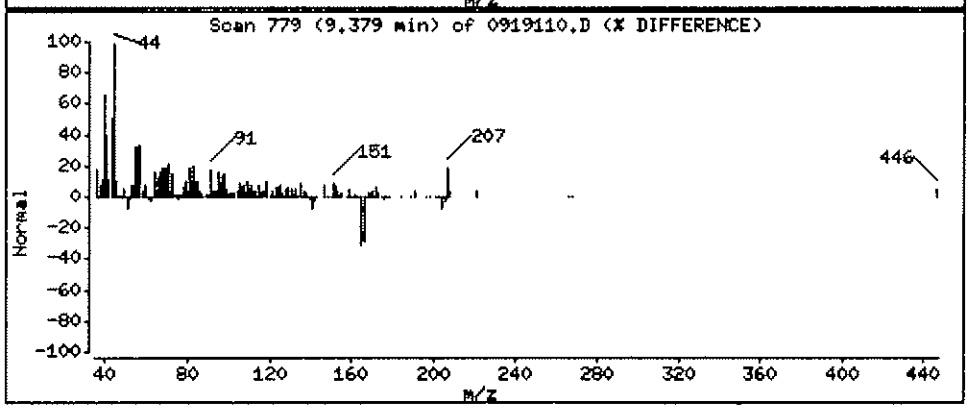
Column phase: fused silica Column diameter: 0.25

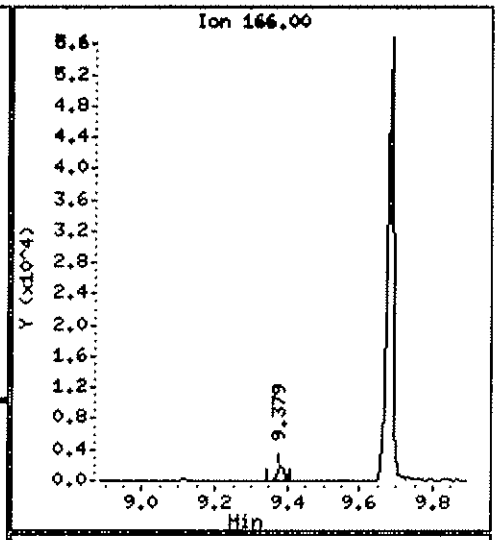
88 Fluorene Concentration: 0.02028 UG/L

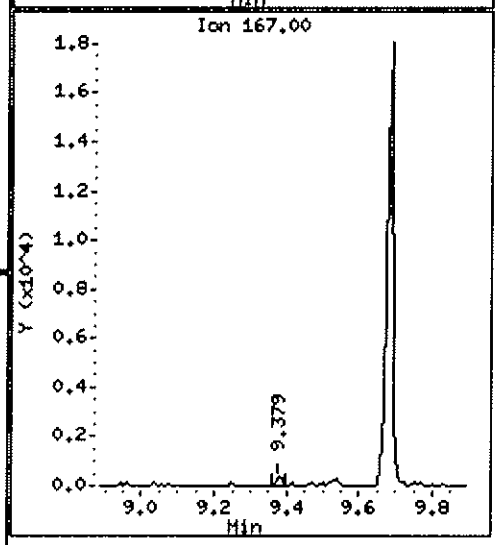












Data File: \\ELABNSH05\TARGET\chem\bna4.i\101811B4.b\0919110.D

Date : 18-OCT-2011 20:30

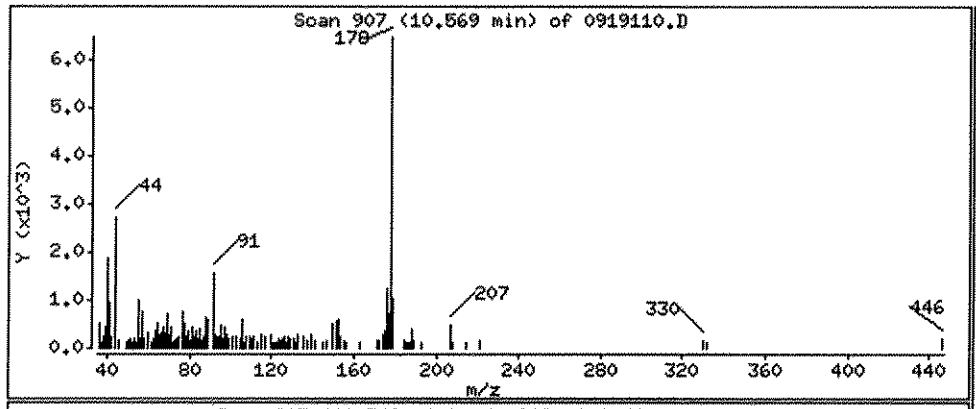
Client ID: FLC-4-RB01-092211 Instrument: bna4.i

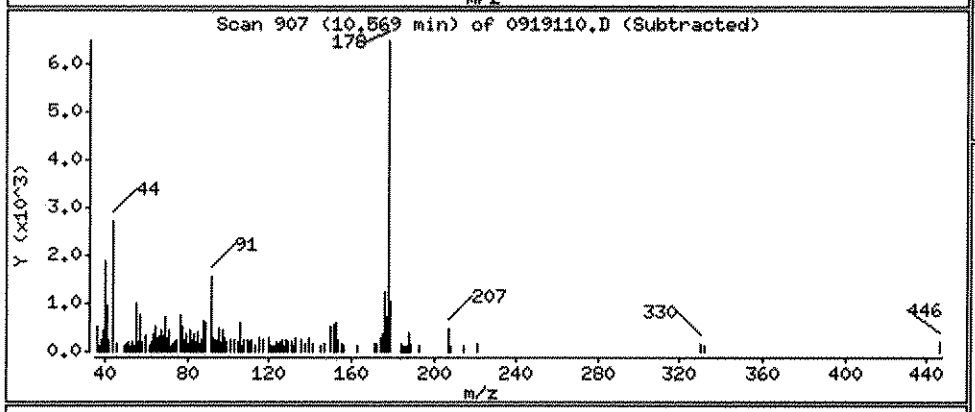
Sample Info: 1109191-10;1;1000;1000;1;UG/L;27-SEP-2011

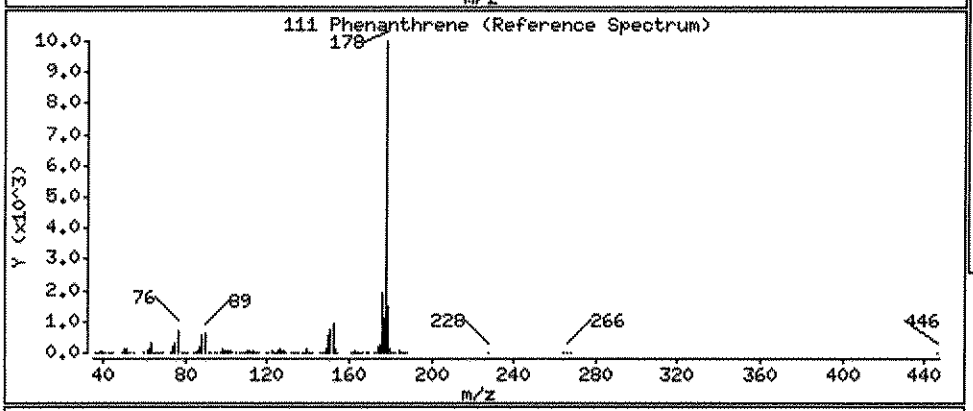
Volume Injected (uL): 1.0 Operator: MEC

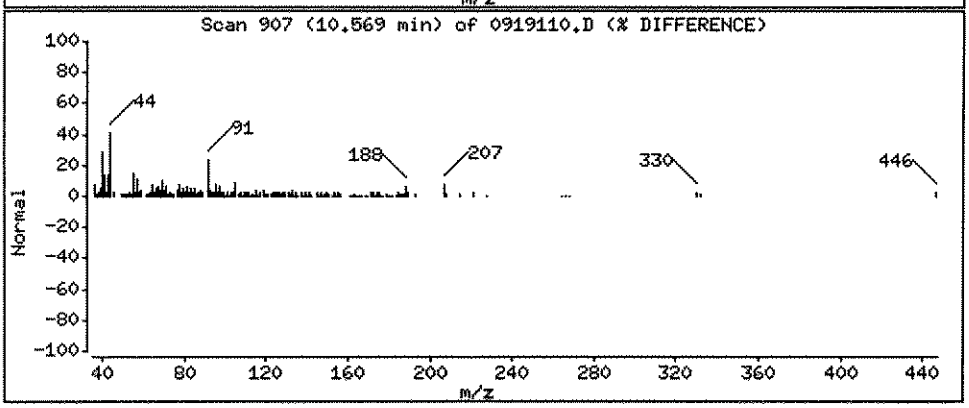
Column phase: fused silica Column diameter: 0.25

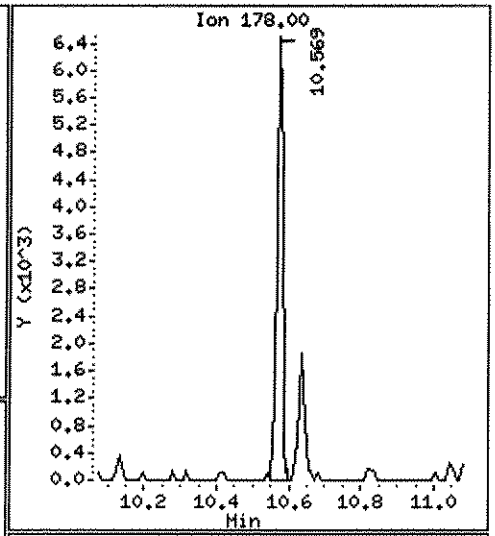
111 Phenanthrene Concentration: 0.04297 UG/L

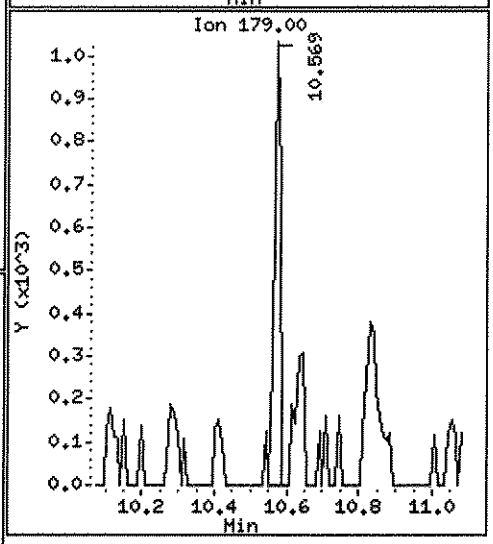












Data File: \\ELABNSH05\TARGET\chem\bna4.i\101811B4.b\0919110.D

Date : 18-OCT-2011 20:30

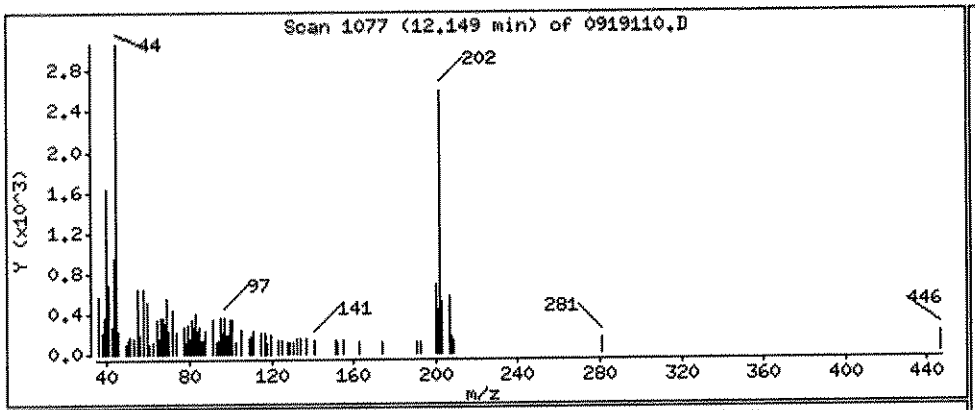
Client ID: FLC-4-RB01-092211 Instrument: bna4.i

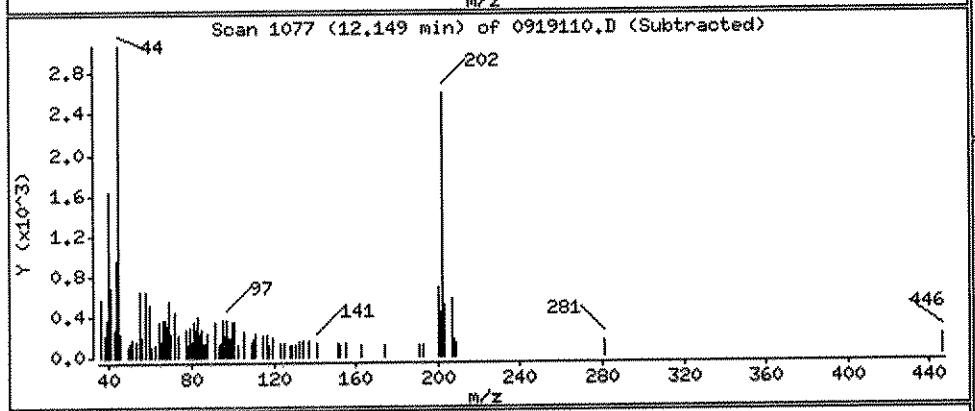
Sample Info: 1109191-10;1;1000;1000;1;UG/L;27-SEP-2011

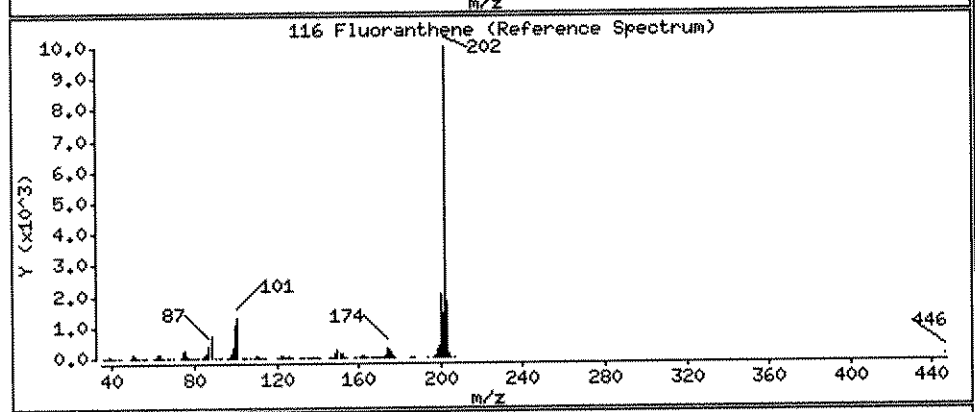
Volume Injected (uL): 1.0 Operator: MEC

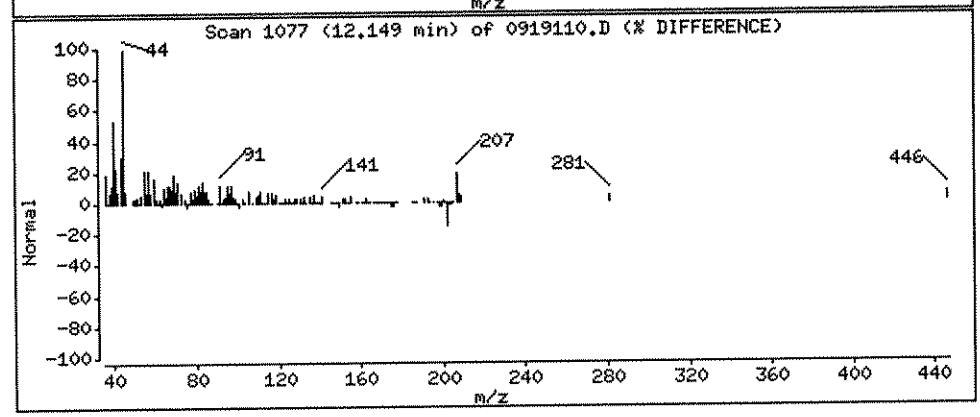
Column phase: fused silica Column diameter: 0.25

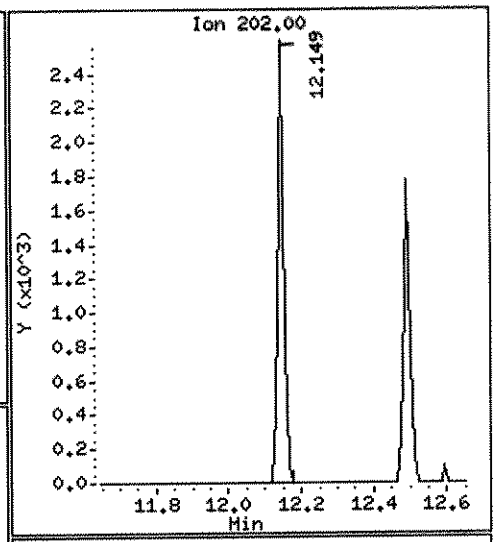
116 Fluoranthene Concentration: 0.02018 UG/L

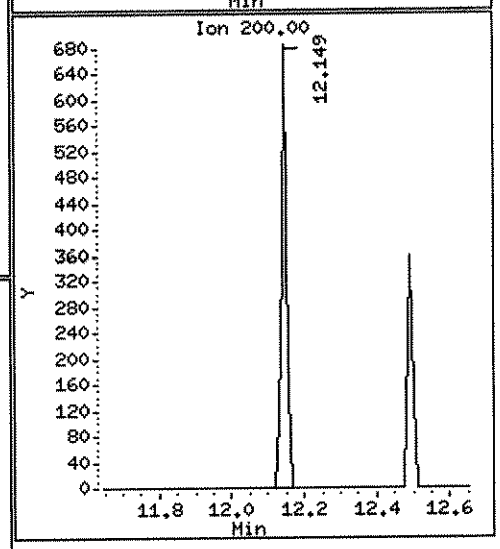












Data File: \\ELABNSH05\TARGET\chem\bna4.i\101811B4.b\0919110.D

Date : 18-OCT-2011 20:30

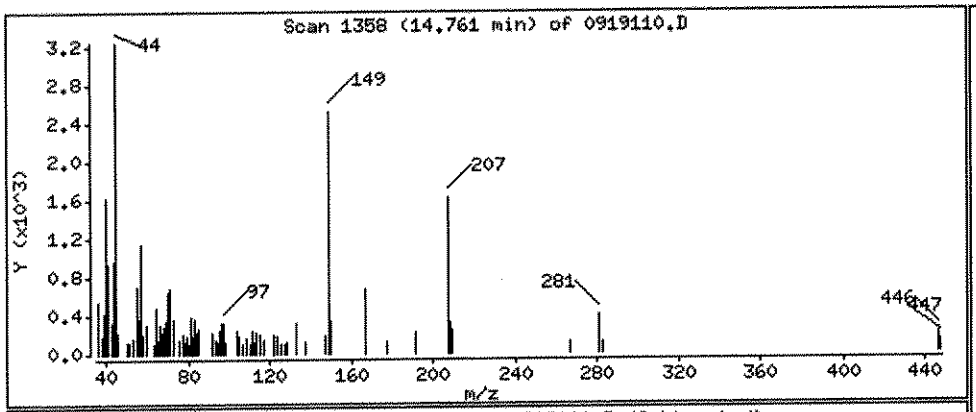
Client ID: FLC-4-RB01-092211 Instrument: bna4.i

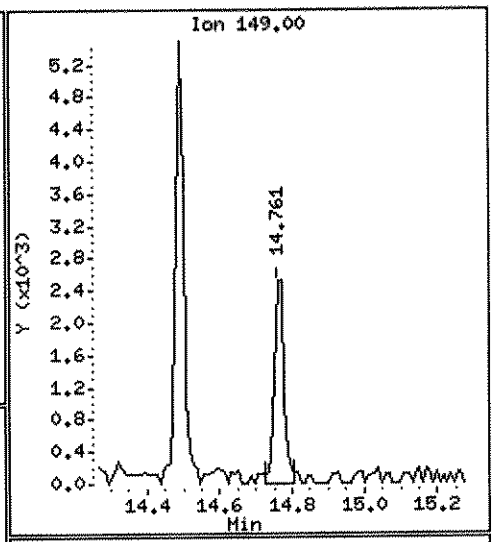
Sample Info: 1109191-10;1;1000;1000;1;UG/L;27-SEP-2011

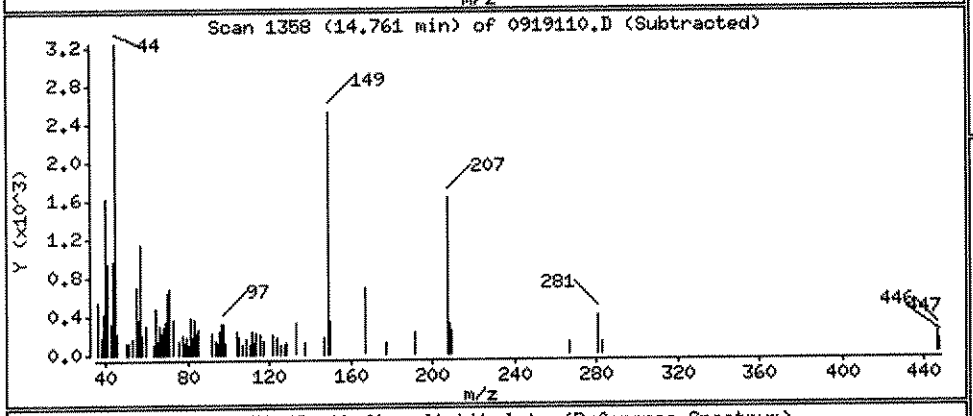
Volume Injected (uL): 1.0 Operator: MEC

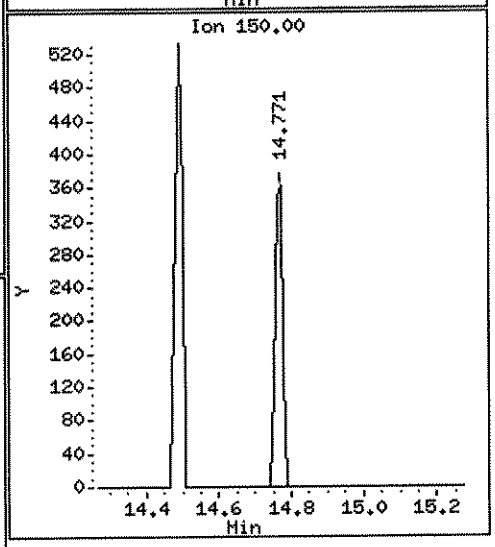
Column phase: fused silica Column diameter: 0.25

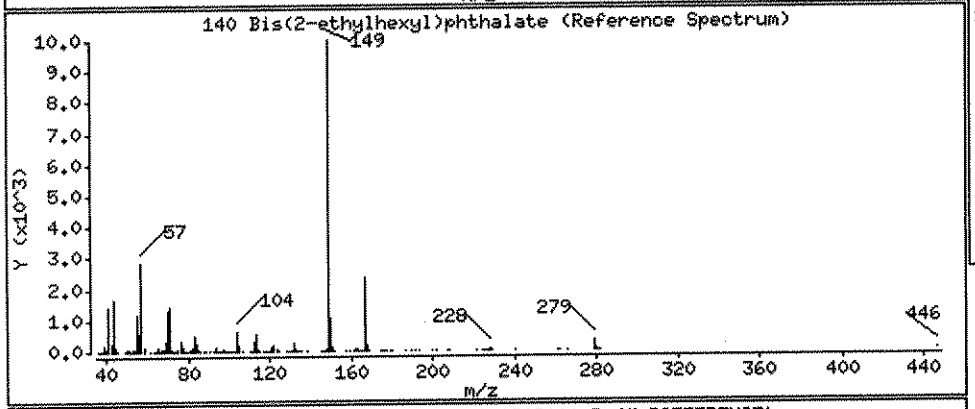
140 Bis(2-ethylhexyl)phthalate Concentration: 0.04585 UG/L

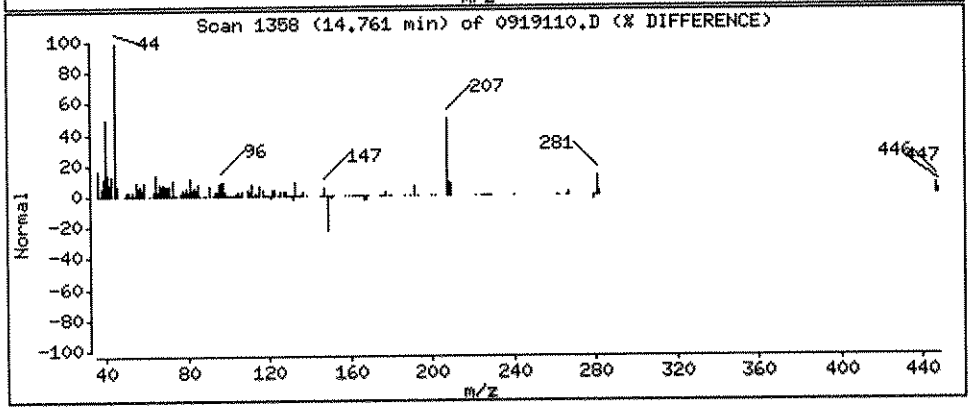












Data File: \\ELABNSH05\TARGET\chem\bna4.i\101811B4.b\0919110.D

Date : 18-OCT-2011 20:30

Client ID: FLC-4-RB01-092211

Instrument: bna4.i

Sample Info: 1109191-10;1;1000;1000;1;UG/L;27-SEP-2011

Volume Injected (uL): 1.0

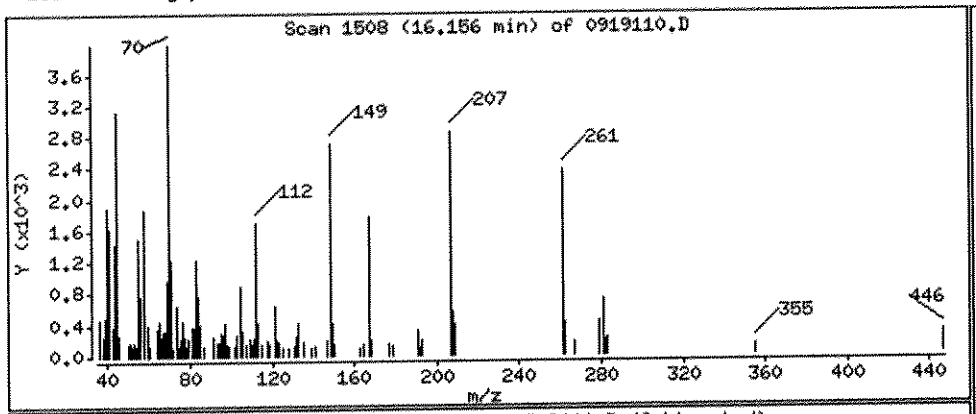
Operator: MEC

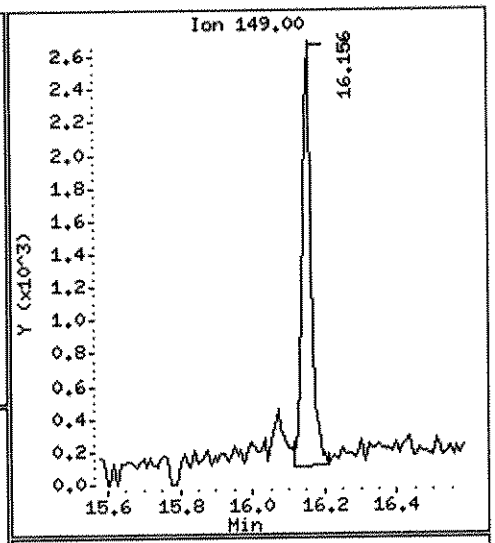
Column phase: fused silica

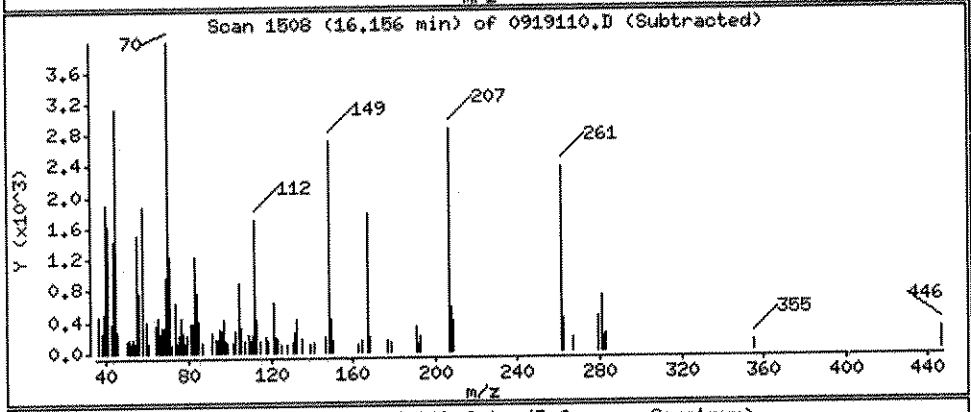
Column diameter: 0.25

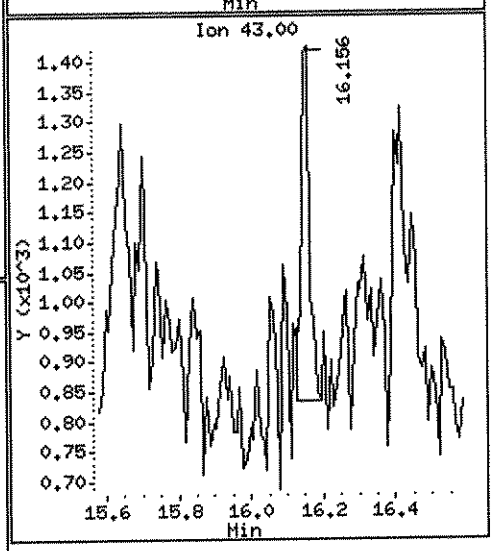
155 Di-n-octylphthalate

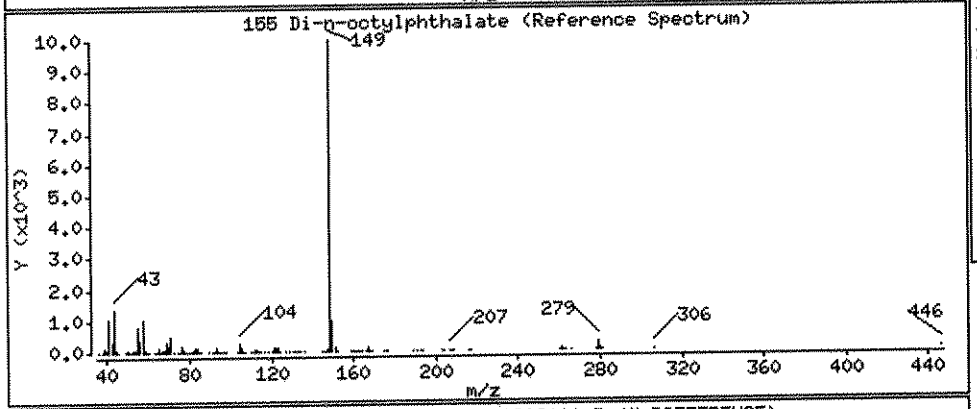
Concentration: 0.03050 UG/L

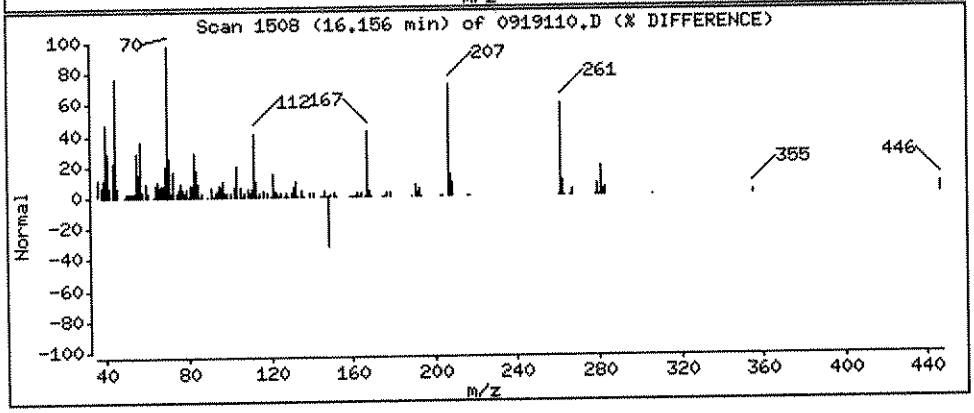












PREPARATION BENCH SHEET

1I26926

Empirical Laboratories, LLC **Printed: 10/6/2011 10:47:19AM**

Instrument:

Matrix: Water **Prepared using: EXT - EXT_3510** **Surrogate used: 11I0104**

Lab Number	Cont ID	Analysis	Prepared	Initial (mL)	Final (mL)	Spike ID	Source ID	ul Spike	ul Surrogate	PH	Extraction Comments
1109074-12RE1	K	SMS_BNA_8270C_3510_REG	09/27/2011	1070	1				500	NA	Re-extract added 9/27/2011 by DMG
1109173-24	K	SMS_BNA_8270C_3510_REG	09/27/2011	1060	1				500	NA	
1109191-10	J	SMS_BNA_8270C_3510_REG	09/27/2011	1070	1				500	NA	
1109191-10	J	SMS_BNA_8270C_LOW_3510	09/27/2011	1070	1				500	NA	HCBD_PCP_PAHs for waters!
1109192-12	K	SMS_BNA_8270C_3510_REG	09/27/2011	1080	1				500	NA	
1109192-12	K	SMS_BNA_8270C_LOW_3510	09/27/2011	1080	1				500	NA	HCBD_PCP_PAHs for waters!
1109194-01	L	SMS_BNA_8270C_3510_REG	09/27/2011	1070	1				500	NA	
1109194-02	M	SMS_BNA_8270C_3510_REG	09/27/2011	1080	1				500	NA	
1109194-03	K	SMS_BNA_8270C_3510_REG	09/27/2011	1070	1				500	NA	
1109194-04	K	SMS_BNA_8270C_3510_REG	09/27/2011	1080	1				500	NA	
1109198-01	G	SMS_BNA_8270C_3510_REG	09/27/2011	1060	1				500	NA	
1109198-02	F	SMS_BNA_8270C_3510_REG	09/27/2011	1070	1				500	NA	
1109198-03	F	SMS_BNA_8270C_3510_REG	09/27/2011	1020	1				500	NA	
1109198-04	G	SMS_BNA_8270C_3510_REG	09/27/2011	1070	1				500	NA	
1109201-02	Q	SMS_PAH_8270C_3510_LOW	09/27/2011	1060	1				500	NA	MS/MSD.
1109201-02	Q	SMS_BNA_8270C_LOW_3510	09/27/2011	1060	1				500	NA	Added for BatchQC in: 1I26926
1109201-02RE1	Q	SMS_BNA_8270C_3510_REG	09/27/2011	1060	1				500	NA	Added for BatchQC in: 1I26926
1109201-02RE1	Q	SMS_PAH_8270C_3510_LOW	09/27/2011	1060	1				500	NA	Added for BatchQC in: 1I26926
1109201-03	E	SMS_PAH_8270C_3510_LOW	09/27/2011	1060	1				500	NA	only use version if Benzo A pyrene only.
1I26926-BLK1		QC	09/27/2011	1000	1				500	NA	
1I26926-BLK2		QC	09/27/2011	1000	1				500	NA	
1I26926-BS1		QC	09/27/2011	1000	1	11I0554		500	500	NA	

Spiking Witnessed By Date

Preparation Reviewed By Date

Extracts Received By Date

911

1109191

PREPARATION BENCH SHEET

1I26926

Empirical Laboratories, LLC **Printed: 10/6/2011 10:47:19AM**

Instrument:

912

Matrix: Water **Prepared using: EXT - EXT_3510** **Surrogate used: 11I0104**

Lab Number	Cont ID	Analysis	Prepared	Initial (mL)	Final (mL)	Spike ID	Source ID	ul Spike	ul Surrogate	PH	Extraction Comments
1I26926-BS2		QC	09/27/2011	1000	1	11I0558		1000	500	NA	LL
1I26926-MRL1		QC	09/27/2011	1000	1	11I0554		20	500	NA	
1I26926-MRL2		QC	09/27/2011	1000	1	11I0554		50	500	NA	
1I26926-MRL3		QC	09/27/2011	1000	1	11I0554		100	500	NA	
1I26926-MS1		QC	09/27/2011	1070	1	11I0554	1109201-02	500	500	NA	reg
1I26926-MSD1		QC	09/27/2011	1060	1	11I0554	1109201-02	500	500	NA	reg

Reagents Used:

Standard	Description
11H0173	Sodium Sulfate Anhydrous
11I0388	1:1 H2SO4/DIH2O
11I0389	10N NaOH for Extractions
11I0738	Methylene Chloride

1109191

Spiking Witnessed By Date

Preparation Reviewed By Date

Extracts Received By Date

Data for SW8270C (PAH) Forms

ANALYSIS DATA SHEET

FLC-4-SS01-0006-092211

Laboratory:	Empirical Laboratories, LLC			SDG:	1109191
Client:	Tetra Tech NUS, Inc. (T010)			Project:	Navy Fuel Depot CTO JM46
Matrix:	Soil	Laboratory ID:	1109191-01	File ID:	0919101.D
Sampled:	09/22/11 08:45	Prepared:	10/04/11 11:00	Analyzed:	10/23/11 22:42
Solids:	97.94	Preparation:	EXT_3546	Dilution:	1

Batch: 1J03009 Sequence: 1J29908 Calibration: 1238006 Instrument: MS-BNA4

CAS NO.	COMPOUND	CONC. (ug/Kg dry)	DL	LOD	LOQ	Q
83-32-9	Acenaphthene		1.71	3.40	6.81	U
208-96-8	Acenaphthylene		1.71	3.40	6.81	U
120-12-7	Anthracene		1.71	3.40	6.81	U
56-55-3	Benzo(a)anthracene		1.71	3.40	6.81	U
50-32-8	Benzo(a)pyrene	4.38	1.71	3.40	6.81	I
205-99-2	Benzo(b)fluoranthene	6.62	1.71	3.40	6.81	I
191-24-2	Benzo(g,h,i)perylene		1.71	3.40	6.81	X, U
207-08-9	Benzo(k)fluoranthene		1.71	3.40	6.81	U
218-01-9	Chrysene		1.71	3.40	6.81	U
53-70-3	Dibenz(a,h)anthracene		1.71	3.40	6.81	X, U
206-44-0	Fluoranthene	3.71	1.71	3.40	6.81	I
86-73-7	Fluorene		1.71	3.40	6.81	U
193-39-5	Indeno(1,2,3-cd)pyrene	5.20	1.71	3.40	6.81	X, I
90-12-0	1-Methylnaphthalene		1.71	3.40	6.81	U
91-57-6	2-Methylnaphthalene		1.71	3.40	6.81	U
91-20-3	Naphthalene		1.71	3.40	6.81	U
85-01-8	Phenanthrene	2.58	1.71	3.40	6.81	I
129-00-0	Pyrene	4.68	1.71	3.40	6.81	I

SYSTEM MONITORING COMPOUND	ADDED (ug/Kg dry)	CONC (ug/Kg dry)	% REC	QC LIMITS	Q
2-Fluorobiphenyl	3404	3039	89.3	14 - 129	
Terphenyl-d14	3404	2826	83.0	14 - 129	

ANALYSIS DATA SHEET

FLC-4-SS01-0624-092211

Laboratory:	Empirical Laboratories, LLC			SDG:	1109191
Client:	Tetra Tech NUS, Inc. (T010)			Project:	Navy Fuel Depot CTO JM46
Matrix:	Soil	Laboratory ID:	1109191-02	File ID:	0919102.D
Sampled:	09/22/11 09:00	Prepared:	10/04/11 11:00	Analyzed:	10/23/11 23:12
Solids:	96.12	Preparation:	EXT_3546	Dilution:	1

Batch: 1J03009 Sequence: 1J29908 Calibration: 1238006 Instrument: MS-BNA4

CAS NO.	COMPOUND	CONC. (ug/Kg dry)	DL	LOD	LOQ	Q
83-32-9	Acenaphthene		1.71	3.42	6.85	N, U
208-96-8	Acenaphthylene		1.71	3.42	6.85	N, U
120-12-7	Anthracene		1.71	3.42	6.85	U
56-55-3	Benzo(a)anthracene	4.50	1.71	3.42	6.85	I
50-32-8	Benzo(a)pyrene	7.49	1.71	3.42	6.85	
205-99-2	Benzo(b)fluoranthene	11.3	1.71	3.42	6.85	
191-24-2	Benzo(g,h,i)perylene	16.1	1.71	3.42	6.85	X
207-08-9	Benzo(k)fluoranthene		1.71	3.42	6.85	U
218-01-9	Chrysene	5.74	1.71	3.42	6.85	I
53-70-3	Dibenz(a,h)anthracene		1.71	3.42	6.85	X, U
206-44-0	Fluoranthene	4.88	1.71	3.42	6.85	I
86-73-7	Fluorene		1.71	3.42	6.85	U
193-39-5	Indeno(1,2,3-cd)pyrene	8.21	1.71	3.42	6.85	X
90-12-0	1-Methylnaphthalene		1.71	3.42	6.85	N, U
91-57-6	2-Methylnaphthalene		1.71	3.42	6.85	N, U
91-20-3	Naphthalene		1.71	3.42	6.85	N, U
85-01-8	Phenanthrene	2.30	1.71	3.42	6.85	I
129-00-0	Pyrene	6.81	1.71	3.42	6.85	I

SYSTEM MONITORING COMPOUND	ADDED (ug/Kg dry)	CONC (ug/Kg dry)	% REC	QC LIMITS	Q
2-Fluorobiphenyl	3422	2136	62.4	14 - 129	
Terphenyl-d14	3422	2457	71.8	14 - 129	

ANALYSIS DATA SHEET

FLC-4-SB01-0204-092211

Laboratory:	Empirical Laboratories, LLC			SDG:	1109191
Client:	Tetra Tech NUS, Inc. (T010)			Project:	Navy Fuel Depot CTO JM46
Matrix:	Soil	Laboratory ID:	1109191-03	File ID:	0919103.D
Sampled:	09/22/11 09:25	Prepared:	10/04/11 11:00	Analyzed:	10/24/11 00:41
Solids:	89.14	Preparation:	EXT_3546	Dilution:	1

Batch: 1J03009 Sequence: 1J29908 Calibration: 1238006 Instrument: MS-BNA4

CAS NO.	COMPOUND	CONC. (ug/Kg dry)	DL	LOD	LOQ	Q
83-32-9	Acenaphthene		1.87	3.74	7.48	U
208-96-8	Acenaphthylene		1.87	3.74	7.48	U
120-12-7	Anthracene		1.87	3.74	7.48	U
56-55-3	Benzo(a)anthracene		1.87	3.74	7.48	U
50-32-8	Benzo(a)pyrene		1.87	3.74	7.48	U
205-99-2	Benzo(b)fluoranthene		1.87	3.74	7.48	U
191-24-2	Benzo(g,h,i)perylene		1.87	3.74	7.48	X, U
207-08-9	Benzo(k)fluoranthene		1.87	3.74	7.48	U
218-01-9	Chrysene		1.87	3.74	7.48	U
53-70-3	Dibenz(a,h)anthracene		1.87	3.74	7.48	X, U
206-44-0	Fluoranthene		1.87	3.74	7.48	U
86-73-7	Fluorene		1.87	3.74	7.48	U
193-39-5	Indeno(1,2,3-cd)pyrene		1.87	3.74	7.48	X, U
90-12-0	1-Methylnaphthalene		1.87	3.74	7.48	U
91-57-6	2-Methylnaphthalene		1.87	3.74	7.48	U
91-20-3	Naphthalene		1.87	3.74	7.48	U
85-01-8	Phenanthrene		1.87	3.74	7.48	U
129-00-0	Pyrene		1.87	3.74	7.48	U

SYSTEM MONITORING COMPOUND	ADDED (ug/Kg dry)	CONC (ug/Kg dry)	% REC	QC LIMITS	Q
2-Fluorobiphenyl	3739	3228	86.3	14 - 129	
Terphenyl-d14	3739	3127	83.6	14 - 129	

ANALYSIS DATA SHEET

FLC-4-SS02-0006-092211

Laboratory:	Empirical Laboratories, LLC			SDG:	1109191
Client:	Tetra Tech NUS, Inc. (T010)			Project:	Navy Fuel Depot CTO JM46
Matrix:	Soil	Laboratory ID:	1109191-04	File ID:	0919104D.D
Sampled:	09/22/11 10:05	Prepared:	10/04/11 11:00	Analyzed:	10/24/11 03:10
Solids:	93.66	Preparation:	EXT_3546	Dilution:	10

Batch: 1J03009 Sequence: 1J29908 Calibration: 1238006 Instrument: MS-BNA4

CAS NO.	COMPOUND	CONC. (ug/Kg dry)	DL	LOD	LOQ	Q
83-32-9	Acenaphthene		17.7	35.3	70.7	U
208-96-8	Acenaphthylene	161	17.7	35.3	70.7	D
120-12-7	Anthracene	40.5	17.7	35.3	70.7	, D I
56-55-3	Benzo(a)anthracene	338	17.7	35.3	70.7	D
50-32-8	Benzo(a)pyrene	613	17.7	35.3	70.7	D
205-99-2	Benzo(b)fluoranthene	812	17.7	35.3	70.7	D
191-24-2	Benzo(g,h,i)perylene	551	17.7	35.3	70.7	X, D
207-08-9	Benzo(k)fluoranthene	280	17.7	35.3	70.7	D
218-01-9	Chrysene	433	17.7	35.3	70.7	D
53-70-3	Dibenz(a,h)anthracene	127	17.7	35.3	70.7	X, D
206-44-0	Fluoranthene	398	17.7	35.3	70.7	D
86-73-7	Fluorene		17.7	35.3	70.7	U
193-39-5	Indeno(1,2,3-cd)pyrene	515	17.7	35.3	70.7	X, D
90-12-0	1-Methylnaphthalene	27.4	17.7	35.3	70.7	, D I
91-57-6	2-Methylnaphthalene	40.9	17.7	35.3	70.7	, D I
91-20-3	Naphthalene	47.9	17.7	35.3	70.7	, D I
85-01-8	Phenanthrene	98.0	17.7	35.3	70.7	D
129-00-0	Pyrene	573	17.7	35.3	70.7	D

SYSTEM MONITORING COMPOUND	ADDED (ug/Kg dry)	CONC (ug/Kg dry)	% REC	QC LIMITS	Q
2-Fluorobiphenyl	3535	2202	62.3	14 - 129	
Terphenyl-d14	3535	1780	50.3	14 - 129	

ANALYSIS DATA SHEET

FLC-4-SS02-0624-092211

Laboratory:	Empirical Laboratories, LLC			SDG:	1109191
Client:	Tetra Tech NUS, Inc. (T010)			Project:	Navy Fuel Depot CTO JM46
Matrix:	Soil	Laboratory ID:	1109191-05	File ID:	0919105.D
Sampled:	09/22/11 10:20	Prepared:	10/04/11 11:00	Analyzed:	10/24/11 01:11
Solids:	98.08	Preparation:	EXT_3546	Dilution:	1

Batch: 1J03009 Sequence: 1J29908 Calibration: 1238006 Instrument: MS-BNA4

CAS NO.	COMPOUND	CONC. (ug/Kg dry)	DL	LOD	LOQ	Q
83-32-9	Acenaphthene		1.64	3.26	6.67	U
208-96-8	Acenaphthylene	6.24	1.64	3.26	6.67	I
120-12-7	Anthracene	1.71	1.64	3.26	6.67	I
56-55-3	Benzo(a)anthracene	15.4	1.64	3.26	6.67	
50-32-8	Benzo(a)pyrene	30.5	1.64	3.26	6.67	
205-99-2	Benzo(b)fluoranthene	38.4	1.64	3.26	6.67	
191-24-2	Benzo(g,h,i)perylene	33.3	1.64	3.26	6.67	X
207-08-9	Benzo(k)fluoranthene	16.8	1.64	3.26	6.67	
218-01-9	Chrysene	22.5	1.64	3.26	6.67	
53-70-3	Dibenz(a,h)anthracene	8.40	1.64	3.26	6.67	X
206-44-0	Fluoranthene	17.6	1.64	3.26	6.67	
86-73-7	Fluorene		1.64	3.26	6.67	U
193-39-5	Indeno(1,2,3-cd)pyrene	21.4	1.64	3.26	6.67	X
90-12-0	1-Methylnaphthalene		1.64	3.26	6.67	U
91-57-6	2-Methylnaphthalene	2.23	1.64	3.26	6.67	I
91-20-3	Naphthalene	3.19	1.64	3.26	6.67	I
85-01-8	Phenanthrene	6.24	1.64	3.26	6.67	I
129-00-0	Pyrene	28.7	1.64	3.26	6.67	

SYSTEM MONITORING COMPOUND	ADDED (ug/Kg dry)	CONC (ug/Kg dry)	% REC	QC LIMITS	Q
2-Fluorobiphenyl	3268	2619	80.2	14 - 129	
Terphenyl-d14	3268	2056	62.9	14 - 129	

ANALYSIS DATA SHEET

FLC-4-SB02-0204-092211

Laboratory:	Empirical Laboratories, LLC			SDG:	1109191
Client:	Tetra Tech NUS, Inc. (T010)			Project:	Navy Fuel Depot CTO JM46
Matrix:	Soil	Laboratory ID:	1109191-06	File ID:	0919106D.D
Sampled:	09/22/11 10:30	Prepared:	10/04/11 11:00	Analyzed:	10/24/11 03:39
Solids:	94.12	Preparation:	EXT_3546	Dilution:	10

Batch: 1J03009 Sequence: 1J29908 Calibration: 1238006 Instrument: MS-BNA4

CAS NO.	COMPOUND	CONC. (ug/Kg dry)	DL	LOD	LOQ	Q
83-32-9	Acenaphthene		17.0	33.8	67.7	U
208-96-8	Acenaphthylene		17.0	33.8	67.7	U
120-12-7	Anthracene		17.0	33.8	67.7	U
56-55-3	Benzo(a)anthracene		17.0	33.8	67.7	U
50-32-8	Benzo(a)pyrene	20.2	17.0	33.8	67.7	D, I
205-99-2	Benzo(b)fluoranthene	26.8	17.0	33.8	67.7	D, I
191-24-2	Benzo(g,h,i)perylene		17.0	33.8	67.7	X, U
207-08-9	Benzo(k)fluoranthene	17.6	17.0	33.8	67.7	D, I
218-01-9	Chrysene	20.4	17.0	33.8	67.7	D, I
53-70-3	Dibenz(a,h)anthracene		17.0	33.8	67.7	X, U
206-44-0	Fluoranthene		17.0	33.8	67.7	U
86-73-7	Fluorene		17.0	33.8	67.7	U
193-39-5	Indeno(1,2,3-cd)pyrene		17.0	33.8	67.7	X, U
90-12-0	1-Methylnaphthalene		17.0	33.8	67.7	U
91-57-6	2-Methylnaphthalene		17.0	33.8	67.7	U
91-20-3	Naphthalene		17.0	33.8	67.7	U
85-01-8	Phenanthrene		17.0	33.8	67.7	U
129-00-0	Pyrene	22.3	17.0	33.8	67.7	D, I

SYSTEM MONITORING COMPOUND	ADDED (ug/Kg dry)	CONC (ug/Kg dry)	% REC	QC LIMITS	Q
2-Fluorobiphenyl	3384	2541	75.1	14 - 129	
Terphenyl-d14	3384	2201	65.0	14 - 129	

SURROGATE STANDARD RECOVERY AND RT SUMMARY

SW8270C

Laboratory:	Empirical Laboratories, LLC	SDG:	1109191
Client:	Tetra Tech NUS, Inc. (T010)	Project:	Navy Fuel Depot CTO JM46
Sequence:	1J29908	Instrument:	MS-BNA4
		Calibration:	1238006

Surrogate Compound	Spike Level	% Recovery	Recovery Limits	RT	CCV RT	RT Diff	RT Diff Limit	Q
Calibration Check (1J29908-CCV1) ug/mL				Lab File ID: SEQ-CCV2.D		Analyzed: 10/23/11 21:15		
2-Fluorobiphenyl	5.000	119	80 - 120	7.768	7.768	0.0000	+/-0.500	
Terphenyl-d14	5.000	117	80 - 120	12.602	12.602	0.0000	+/-0.500	
LCS (1J03009-BS2) ug/Kg wet				Lab File ID: J03009L1.D		Analyzed: 10/23/11 21:44		
2-Fluorobiphenyl	3333	92.2	14 - 129	7.768	7.768	0.0000	+/-0.500	
Terphenyl-d14	3333	111	14 - 129	12.611	12.602	0.0090	+/-0.500	
Blank (1J03009-BLK2) ug/Kg wet				Lab File ID: J03009B1.D		Analyzed: 10/23/11 22:13		
2-Fluorobiphenyl	3333	89.3	14 - 129	7.767	7.768	-0.0010	+/-0.500	
Terphenyl-d14	3333	106	14 - 129	12.611	12.602	0.0090	+/-0.500	
FLC-4-SS01-0006-092211 (1109191-01) ug/Kg dry				Lab File ID: 0919101.D		Analyzed: 10/23/11 22:42		
2-Fluorobiphenyl	3404	89.3	14 - 129	7.768	7.768	0.0000	+/-0.500	
Terphenyl-d14	3404	83.0	14 - 129	12.611	12.602	0.0090	+/-0.500	
FLC-4-SS01-0624-092211 (1109191-02) ug/Kg dry				Lab File ID: 0919102.D		Analyzed: 10/23/11 23:12		
2-Fluorobiphenyl	3422	62.4	14 - 129	7.767	7.768	-0.0010	+/-0.500	
Terphenyl-d14	3422	71.8	14 - 129	12.611	12.602	0.0090	+/-0.500	
Matrix Spike (1J03009-MS2) ug/Kg dry				Lab File ID: 0919102M.D		Analyzed: 10/23/11 23:42		
2-Fluorobiphenyl	3400	51.5	14 - 129	7.767	7.768	-0.0010	+/-0.500	
Terphenyl-d14	3400	67.0	14 - 129	12.611	12.602	0.0090	+/-0.500	
Matrix Spike Dup (1J03009-MSD2) ug/Kg dry				Lab File ID: 0919102S.D		Analyzed: 10/24/11 00:12		
2-Fluorobiphenyl	3400	85.2	14 - 129	7.767	7.768	-0.0010	+/-0.500	
Terphenyl-d14	3400	68.3	14 - 129	12.611	12.602	0.0090	+/-0.500	
FLC-4-SB01-0204-092211 (1109191-03) ug/Kg dry				Lab File ID: 0919103.D		Analyzed: 10/24/11 00:41		
2-Fluorobiphenyl	3739	86.3	14 - 129	7.767	7.768	-0.0010	+/-0.500	
Terphenyl-d14	3739	83.6	14 - 129	12.611	12.602	0.0090	+/-0.500	
FLC-4-SS02-0624-092211 (1109191-05) ug/Kg dry				Lab File ID: 0919105.D		Analyzed: 10/24/11 01:11		
2-Fluorobiphenyl	3268	80.2	14 - 129	7.767	7.768	-0.0010	+/-0.500	
Terphenyl-d14	3268	62.9	14 - 129	12.611	12.602	0.0090	+/-0.500	
FLC-4-SS02-0006-092211 (1109191-04) ug/Kg dry				Lab File ID: 0919104D.D		Analyzed: 10/24/11 03:10		
2-Fluorobiphenyl	3535	62.3	14 - 129	7.767	7.768	-0.0010	+/-0.500	
Terphenyl-d14	3535	50.3	14 - 129	12.611	12.602	0.0090	+/-0.500	
FLC-4-SB02-0204-092211 (1109191-06) ug/Kg dry				Lab File ID: 0919106D.D		Analyzed: 10/24/11 03:39		
2-Fluorobiphenyl	3384	75.1	14 - 129	7.767	7.768	-0.0010	+/-0.500	
Terphenyl-d14	3384	65.0	14 - 129	12.611	12.602	0.0090	+/-0.500	

LCS / LCS DUPLICATE RECOVERY

SW8270C

Laboratory:	Empirical Laboratories, LLC	SDG:	1109191
Client:	Tetra Tech NUS, Inc. (T010)	Project:	Navy Fuel Depot CTO JM46
Matrix:	Solid		
Batch:	1J03009	Laboratory ID:	1J03009-BS2
Preparation:	EXT_3546	Initial/Final:	15 g / 1 mL

ANALYTE	SPIKE ADDED (ug/Kg wet)	LCS CONCENTRATION (ug/Kg wet)	LCS % REC.	QC LIMITS REC.
Acenaphthene	66.67	53.73	80.6	28 - 110
Acenaphthylene	66.67	48.88	73.3	23 - 126
Anthracene	66.67	53.63	80.4	28 - 136
Benzo(a)anthracene	66.67	56.31	84.5	31 - 146
Benzo(a)pyrene	66.67	54.92	82.4	28 - 128
Benzo(b)fluoranthene	66.67	55.17	82.8	30 - 139
Benzo(g,h,i)perylene	66.67	72.47	109	21 - 149
Benzo(k)fluoranthene	66.67	54.85	82.3	42 - 129
Chrysene	66.67	55.31	83.0	39 - 134
Dibenz(a,h)anthracene	66.67	70.50	106	30 - 138
Fluoranthene	66.67	57.57	86.3	30 - 142
Fluorene	66.67	56.48	84.7	27 - 116
Indeno(1,2,3-cd)pyrene	66.67	71.90	108	17 - 164
1-Methylnaphthalene	66.67	57.53	86.3	30 - 111
2-Methylnaphthalene	66.67	62.17	93.2	30 - 111
Naphthalene	66.67	60.97	91.5	29 - 106
Phenanthrene	66.67	57.05	85.6	32 - 127
Pyrene	66.67	57.19	85.8	28 - 130

MATRIX SPIKE / MATRIX SPIKE DUPLICATE RECOVERY

SW8270C

FLC-4-SS01-0624-092211

Laboratory: Empirical Laboratories, LLC

SDG: 1109191

Client: Tetra Tech NUS, Inc. (T010)

Project: Navy Fuel Depot CTO JM46

Matrix: Solid

Batch: 1J03009

% Solids: 96.12

Source Sample Name: **1109191-02**

ANALYTE	SPIKE ADDED (ug/Kg dry)	SAMPLE CONCENTRATION (ug/Kg dry)	MS CONCENTRATION (ug/Kg dry)	MS % REC.	Q	QC LIMITS REC.
Acenaphthene	3400	ND	1662	48.9		28 - 110
Acenaphthylene	3400	ND	1548	45.5		23 - 126
Anthracene	3400	ND	1855	54.6		28 - 136
Benzo(a)anthracene	3400	4.499	1945	57.1		31 - 146
Benzo(a)pyrene	3400	7.486	1854	54.3		28 - 128
Benzo(b)fluoranthene	3400	11.34	2062	60.3		30 - 139
Benzo(g,h,i)perylene	3400	16.09	2161	63.1		21 - 149
Benzo(k)fluoranthene	3400	ND	1993	58.6		42 - 129
Chrysene	3400	5.745	1807	53.0		39 - 134
Dibenz(a,h)anthracene	3400	ND	2256	66.3		30 - 138
Fluoranthene	3400	4.877	1880	55.1		30 - 142
Fluorene	3400	ND	1845	54.3		27 - 116
Indeno(1,2,3-cd)pyrene	3400	8.207	2139	62.7		17 - 164
1-Methylnaphthalene	3400	ND	1561	45.9		30 - 111
2-Methylnaphthalene	3400	ND	1686	49.6		30 - 111
Naphthalene	3400	ND	1530	45.0		29 - 106
Phenanthrene	3400	2.298	1864	54.8		32 - 127
Pyrene	3400	6.806	1811	53.1		28 - 130

MATRIX SPIKE / MATRIX SPIKE DUPLICATE RECOVERY

SW8270C

FLC-4-SS01-0624-092211

Laboratory: Empirical Laboratories, LLC

SDG: 1109191

Client: Tetra Tech NUS, Inc. (T010)

Project: Navy Fuel Depot CTO JM46

Matrix: Solid

Batch: 1J03009

% Solids: 96.12

Source Sample Name: **1109191-02**

ANALYTE	SPIKE ADDED (ug/Kg dry)	MSD CONCENTRATION (ug/Kg dry)	MSD % REC. #	% RPD	Q	QC LIMITS RPD	QC LIMITS REC.
Acenaphthene	3400	2384	70.1	35.7	*	30	28 - 110
Acenaphthylene	3400	2263	66.6	37.5	*	30	23 - 126
Anthracene	3400	2054	60.4	10.2		30	28 - 136
Benzo(a)anthracene	3400	2083	61.1	6.85		30	31 - 146
Benzo(a)pyrene	3400	2014	59.0	8.26		30	28 - 128
Benzo(b)fluoranthene	3400	2143	62.7	3.88		30	30 - 139
Benzo(g,h,i)perylene	3400	2468	72.1	13.3		30	21 - 149
Benzo(k)fluoranthene	3400	2048	60.2	2.72		30	42 - 129
Chrysene	3400	1955	57.3	7.84		30	39 - 134
Dibenz(a,h)anthracene	3400	2604	76.6	14.4		30	30 - 138
Fluoranthene	3400	1927	56.5	2.47		30	30 - 142
Fluorene	3400	2458	72.3	28.5		30	27 - 116
Indeno(1,2,3-cd)pyrene	3400	2396	70.2	11.3		30	17 - 164
1-Methylnaphthalene	3400	2519	74.1	47.0	*	30	30 - 111
2-Methylnaphthalene	3400	2843	83.6	51.1	*	30	30 - 111
Naphthalene	3400	2652	78.0	53.6	*	30	29 - 106
Phenanthrene	3400	2096	61.6	11.7		30	32 - 127
Pyrene	3400	1860	54.5	2.68		30	28 - 130

PREPARATION BATCH SUMMARY

SW8270C

Laboratory: Empirical Laboratories, LLC SDG: 1109191

Client: Tetra Tech NUS, Inc. (T010) Project: Navy Fuel Depot CTO JM46

Batch: 1J03009 Batch Matrix: Solid Preparation: EXT_3546

SAMPLE NAME	LAB SAMPLE ID	DATE PREPARED	INITIAL VOL./WEIGHT	FINAL VOL.
FLC-4-SS01-0006-092211	1109191-01	10/04/11 11:00	15.00	1.00
FLC-4-SS01-0624-092211	1109191-02	10/04/11 11:00	15.20	1.00
FLC-4-SB01-0204-092211	1109191-03	10/04/11 11:00	15.00	1.00
FLC-4-SS02-0006-092211	1109191-04	10/04/11 11:00	15.10	1.00
FLC-4-SS02-0624-092211	1109191-05	10/04/11 11:00	15.60	1.00
FLC-4-SB02-0204-092211	1109191-06	10/04/11 11:00	15.70	1.00
Blank	1J03009-BLK2	10/04/11 11:00	15.00	1.00
LCS	1J03009-BS2	10/04/11 11:00	15.00	1.00
FLC-4-SS01-0624-092211	1J03009-MS2	10/04/11 11:00	15.30	1.00
FLC-4-SS01-0624-092211	1J03009-MSD2	10/04/11 11:00	15.30	1.00

MASS SPECTROMETER INSTRUMENT PERFORMANCE CHECK

SW8270C

Laboratory:	Empirical Laboratories, LLC	SDG:	1109191
Client:	Tetra Tech NUS, Inc. (T010)	Project:	Navy Fuel Depot CTO JM46
Lab File ID:	SEQ-TUN1.D	Injection Date:	08/24/11
Instrument ID:	MS-BNA4	Injection Time:	14:16
Sequence:	1H23712	Lab Sample ID:	1H23712-TUN1

m/z	ION ABUNDANCE CRITERIA	% RELATIVE ABUNDANCE	
51	30 - 60% of 198	46.6	PASS
68	Less than 2% of 69	1.46	PASS
69	Less than 200% of 198	49.8	PASS
70	Less than 2% of 69	0.379	PASS
127	40 - 60% of 198	57.3	PASS
197	Less than 1% of 198	0	PASS
198	Base peak, 100% relative abundance	100	PASS
199	5 - 9% of 198	6.71	PASS
275	10 - 30% of 198	25	PASS
365	1 - 200% of 198	3.37	PASS
441	0.001 - 100% of 443	79.7	PASS
442	40 - 200% of 198	97.7	PASS
443	17 - 23% of 442	19.5	PASS

MASS SPECTROMETER INSTRUMENT PERFORMANCE CHECK

SW8270C

Laboratory:	Empirical Laboratories, LLC	SDG:	1109191
Client:	Tetra Tech NUS, Inc. (T010)	Project:	Navy Fuel Depot CTO JM46
Lab File ID:	SEQ-TUN2.D	Injection Date:	10/23/11
Instrument ID:	MS-BNA4	Injection Time:	20:58
Sequence:	1J29908	Lab Sample ID:	1J29908-TUN1

m/z	ION ABUNDANCE CRITERIA	% RELATIVE ABUNDANCE	
51	30 - 60% of 198	32.8	PASS
68	Less than 2% of 69	1.8	PASS
69	Less than 200% of 198	39.4	PASS
70	Less than 2% of 69	0.717	PASS
127	40 - 60% of 198	47.8	PASS
197	Less than 1% of 198	0.519	PASS
198	Base peak, 100% relative abundance	100	PASS
199	5 - 9% of 198	6.72	PASS
275	10 - 30% of 198	26.6	PASS
365	1 - 200% of 198	3.68	PASS
441	0.001 - 100% of 443	82.4	PASS
442	40 - 200% of 198	149	PASS
443	17 - 23% of 442	19.3	PASS

ANALYSIS SEQUENCE SUMMARY

SW8270C

Laboratory:	Empirical Laboratories, LLC	SDG:	1109191
Client:	Tetra Tech NUS, Inc. (T010)	Project:	Navy Fuel Depot CTO JM46
Sequence:	1H23712	Instrument:	MS-BNA4
Calibration:	1238006		

Sample Name	Lab Sample ID	Lab File ID	Analysis Date/Time
MS Tune	1H23712-TUN1	SEQ-TUN1.D	08/24/11 14:16
Cal Standard	1H23712-CAL1	SEQ-CAL1.D	08/24/11 14:35
Cal Standard	1H23712-CAL2	SEQ-CAL2.D	08/24/11 15:05
Cal Standard	1H23712-CAL3	SEQ-CAL3.D	08/24/11 15:35
Cal Standard	1H23712-CAL4	SEQ-CAL4.D	08/24/11 16:05
Cal Standard	1H23712-CAL5	SEQ-CAL5.D	08/24/11 16:35
Cal Standard	1H23712-CAL6	SEQ-CAL6.D	08/24/11 17:05
Cal Standard	1H23712-CAL7	SEQ-CAL7.D	08/24/11 17:34
Cal Standard	1H23712-CAL9	SEQ-CAL9.D	08/24/11 18:33
Initial Cal Check	1H23712-ICV1	SEQ-ICV1.D	08/24/11 19:02

ANALYSIS SEQUENCE SUMMARY

SW8270C

Laboratory:	Empirical Laboratories, LLC	SDG:	1109191
Client:	Tetra Tech NUS, Inc. (T010)	Project:	Navy Fuel Depot CTO JM46
Sequence:	1J29908	Instrument:	MS-BNA4
Calibration:	1238006		

Sample Name	Lab Sample ID	Lab File ID	Analysis Date/Time
MS Tune	1J29908-TUN1	SEQ-TUN2.D	10/23/11 20:58
Calibration Check	1J29908-CCV1	SEQ-CCV2.D	10/23/11 21:15
LCS	1J03009-BS2	J03009L1.D	10/23/11 21:44
Blank	1J03009-BLK2	J03009B1.D	10/23/11 22:13
FLC-4-SS01-0006-092211	1109191-01	0919101.D	10/23/11 22:42
FLC-4-SS01-0624-092211	1109191-02	0919102.D	10/23/11 23:12
FLC-4-SS01-0624-092211	1J03009-MS2	0919102M.D	10/23/11 23:42
FLC-4-SS01-0624-092211	1J03009-MSD2	0919102S.D	10/24/11 00:12
FLC-4-SB01-0204-092211	1109191-03	0919103.D	10/24/11 00:41
FLC-4-SS02-0624-092211	1109191-05	0919105.D	10/24/11 01:11
FLC-4-SS02-0006-092211	1109191-04	0919104D.D	10/24/11 03:10
FLC-4-SB02-0204-092211	1109191-06	0919106D.D	10/24/11 03:39

INTERNAL STANDARD AREA AND RT SUMMARY
SW8270C

Laboratory:	Empirical Laboratories, LLC	SDG:	1109191
Client:	Tetra Tech NUS, Inc. (T010)	Project:	Navy Fuel Depot CTO JM46
Sequence:	1J29908	Instrument:	MS-BNA4
		Calibration:	1238006

Internal Standard	Response	RT	Reference Response	Reference RT	Area %	Area % Limits	RT Diff	RT Diff Limit	Q
Calibration Check (1J29908-CCV1)			Lab File ID: SEQ-CCV2.D			Analyzed: 10/23/11 21:15			
Phenanthrene-d10	107051	10.417	105583	10.012	101	50 - 200	0.4050	+/-0.50	
Perylene-d12	57357	17.175	58058	16.483	99	50 - 200	0.6920	+/-0.50	
LCS (1J03009-BS2)			Lab File ID: J03009L1.D			Analyzed: 10/23/11 21:44			
Phenanthrene-d10	87446	10.426	107051	10.417	82	50 - 200	0.0090	+/-0.50	
Perylene-d12	40519	17.175	57357	17.175	71	50 - 200	0.0000	+/-0.50	
Blank (1J03009-BLK2)			Lab File ID: J03009B1.D			Analyzed: 10/23/11 22:13			
Phenanthrene-d10	115723	10.426	107051	10.417	108	50 - 200	0.0090	+/-0.50	
Perylene-d12	41464	17.175	57357	17.175	72	50 - 200	0.0000	+/-0.50	
FLC-4-SS01-0006-092211 (1109191-01)			Lab File ID: 0919101.D			Analyzed: 10/23/11 22:42			
Phenanthrene-d10	109233	10.426	107051	10.417	102	50 - 200	0.0090	+/-0.50	
Perylene-d12	51811	17.175	57357	17.175	90	50 - 200	0.0000	+/-0.50	
FLC-4-SS01-0624-092211 (1109191-02)			Lab File ID: 0919102.D			Analyzed: 10/23/11 23:12			
Phenanthrene-d10	166495	10.426	107051	10.417	156	50 - 200	0.0090	+/-0.50	
Perylene-d12	54388	17.185	57357	17.175	95	50 - 200	0.0100	+/-0.50	
Matrix Spike (1J03009-MS2)			Lab File ID: 0919102M.D			Analyzed: 10/23/11 23:42			
Phenanthrene-d10	169729	10.426	107051	10.417	159	50 - 200	0.0090	+/-0.50	
Perylene-d12	61808	17.185	57357	17.175	108	50 - 200	0.0100	+/-0.50	
Matrix Spike Dup (1J03009-MSD2)			Lab File ID: 0919102S.D			Analyzed: 10/24/11 00:12			
Phenanthrene-d10	119563	10.426	107051	10.417	112	50 - 200	0.0090	+/-0.50	
Perylene-d12	52257	17.185	57357	17.175	91	50 - 200	0.0100	+/-0.50	
FLC-4-SB01-0204-092211 (1109191-03)			Lab File ID: 0919103.D			Analyzed: 10/24/11 00:41			
Phenanthrene-d10	108308	10.426	107051	10.417	101	50 - 200	0.0090	+/-0.50	
Perylene-d12	40663	17.185	57357	17.175	71	50 - 200	0.0100	+/-0.50	
FLC-4-SS02-0624-092211 (1109191-05)			Lab File ID: 0919105.D			Analyzed: 10/24/11 01:11			
Phenanthrene-d10	102990	10.426	107051	10.417	96	50 - 200	0.0090	+/-0.50	
Perylene-d12	42559	17.185	57357	17.175	74	50 - 200	0.0100	+/-0.50	
FLC-4-SS02-0006-092211 (1109191-04)			Lab File ID: 0919104D.D			Analyzed: 10/24/11 03:10			
Phenanthrene-d10	108338	10.426	107051	10.417	101	50 - 200	0.0090	+/-0.50	
Perylene-d12	38778	17.185	57357	17.175	68	50 - 200	0.0100	+/-0.50	
FLC-4-SB02-0204-092211 (1109191-06)			Lab File ID: 0919106D.D			Analyzed: 10/24/11 03:39			
Phenanthrene-d10	100259	10.426	107051	10.417	94	50 - 200	0.0090	+/-0.50	
Perylene-d12	33700	17.185	57357	17.175	59	50 - 200	0.0100	+/-0.50	

INITIAL CALIBRATION DATA

SW8270C

Laboratory:	Empirical Laboratories, LLC	SDG:	1109191
Client:	Tetra Tech NUS, Inc. (T010)	Project:	Navy Fuel Depot CTO JM46
Calibration:	1238006	Instrument:	MS-BNA4
Matrix:	Water	Calibration Dates:	8/24/11 14:35 8/24/11 18:33

Compound	Level 01		Level 02		Level 03		Level 04		Level 05		Level 06	
	ug/mL	RF	ug/mL	RF	ug/mL	RF	ug/mL	RF	ug/mL	RF	ug/mL	RF
Acenaphthene	0.1	0.9250935	0.2	0.9137168	0.5	0.9364989	1	0.8390082	5	0.9269314	10	0.8393586
Acenaphthylene	0.1	1.310504	0.2	1.352461	0.5	1.271225	1	1.290937	5	1.386269	10	1.244926
Anthracene	0.1	1.06615	0.2	1.134831	0.5	1.101345	1	1.102299	5	1.188356	10	1.148519
Benzo(a)anthracene	0.1	0.5409415	0.2	0.6742062	0.5	0.5788873	1	0.7281002	5	0.6593813	10	0.7987934
Benzo(a)pyrene	0.1	1.378905	0.2	1.002256	0.5	1.016483	1	1.019308	5	1.075559	10	1.127809
Benzo(b)fluoranthene	0.1	1.122247	0.2	1.081127	0.5	1.238364	1	1.347532	5	1.400773	10	1.437569
Benzo(g,h,i)perylene	0.1	0.6978619	0.2	0.7632258	0.5	0.8646701	1	0.7961693	5	0.8182613	10	0.795468
Benzo(k)fluoranthene	0.1	1.344346	0.2	1.226983	0.5	1.325082	1	1.236505	5	1.347683	10	1.446366
Chrysene	0.1	0.5955121	0.2	0.6734888	0.5	0.5942531	1	0.7589479	5	0.660282	10	0.8081928
Dibenz(a,h)anthracene	0.1	0.6888766	0.2	0.7301866	0.5	0.6212773	1	0.7604637	5	0.8511152	10	0.8183589
Fluoranthene	0.1	0.9437932	0.2	1.144311	0.5	0.9607296	1	1.154921	5	1.122071	10	1.164182
Fluorene	0.1	0.7208357	0.2	0.7935516	0.5	0.8908906	1	0.8564163	5	0.9304082	10	0.8408686
2-Fluorobiphenyl	0.1	0.9588967	0.2	1.008414	0.5	0.9847565	1	0.9339003	5	0.9920094	10	0.8838859
Indeno(1,2,3-cd)pyrene	0.1	0.7780389	0.2	0.7517426	0.5	0.7584511	1	0.7398291	5	0.7760122	10	0.8214657
1-Methylnaphthalene	0.1	0.9628524	0.2	0.8826634	0.5	0.9399633	1	0.8267998	5	0.8932794	10	0.7948718
2-Methylnaphthalene	0.1	0.9978244	0.2	0.8913748	0.5	0.9675566	1	0.8669293	5	0.9100694	10	0.7917116
Naphthalene	0.1	1.747878	0.2	1.602784	0.5	1.531261	1	1.442401	5	1.532498	10	1.3281
Phenanthrene	0.1	1.100493	0.2	1.227222	0.5	1.113348	1	1.180057	5	1.188825	10	1.148797
Pyrene	0.1	1.188956	0.2	1.014922	0.5	0.9682087	1	1.142021	5	1.1344	10	1.157542
Terphenyl-d14	0.1	0.5796893	0.2	0.6757435	0.5	0.5439169	1	0.6142371	5	0.613267	10	0.6844251
2,4,6-Tribromophenol	0.2	~~0.144293~~	0.4	~~0.1036649~~	1	0.1499083	2	0.1575348	10	0.1820851	20	0.1756278

INITIAL CALIBRATION DATA (Continued)

SW8270C

Laboratory:	Empirical Laboratories, LLC	SDG:	1109191
Client:	Tetra Tech NUS, Inc. (T010)	Project:	Navy Fuel Depot CTO JM46
Calibration:	1238006	Instrument:	MS-BNA4
Matrix:	Water	Calibration Dates:	8/24/11 14:35 8/24/11 18:33

Compound	Level 07		Level 08		Level 09		Level 10		Level 11		Level 12	
	ug/mL	RF	ug/mL	RF	ug/mL	RF	ug/mL	RF	ug/mL	RF	ug/mL	RF
Acenaphthene	20	0.8784872	50	0.8458228								
Acenaphthylene	20	1.297533	50	1.20877								
Anthracene	20	1.205372	50	1.177482								
Benzo(a)anthracene	20	0.7839756	50	0.8122166								
Benzo(a)pyrene	20	1.205292	50	1.177397								
Benzo(b)fluoranthene	20	1.575784	50	1.477207								
Benzo(g,h,i)perylene	20	0.9098913	50	0.885178								
Benzo(k)fluoranthene	20	1.46597	50	1.416125								
Chrysene	20	0.7485348	50	0.7758677								
Dibenz(a,h)anthracene	20	0.9273779	50	0.9395602								
Fluoranthene	20	1.131794	50	1.144791								
Fluorene	20	0.885353	50	0.8574573								
2-Fluorobiphenyl	20	0.9326552	50	0.8648192								
Indeno(1,2,3-cd)pyrene	20	0.9101472	50	0.9226895								
1-Methylnaphthalene	20	0.8391113	50	0.7766753								
2-Methylnaphthalene	20	0.8795573	50	0.8287812								
Naphthalene	20	1.40468	50	1.318393								
Phenanthrene	20	1.192468	50	1.157994								
Pyrene	20	1.154247	50	1.138918								
Terphenyl-d14	20	0.6894383	50	0.6732402								
2,4,6-Tribromophenol	40	0.1903821	100	0.183212								

INITIAL CALIBRATION DATA (Continued)

SW8270C

Laboratory:	Empirical Laboratories, LLC	SDG:	1109191
Client:	Tetra Tech NUS, Inc. (T010)	Project:	Navy Fuel Depot CTO JM46
Calibration:	1238006	Instrument:	MS-BNA4
Matrix:	Water	Calibration Dates:	8/24/11 14:35 8/24/11 18:33

Compound	Mean RF	RF RSD	Mean RT	RT RSD	Linear r	Quad COD	LIMIT	Q
Acenaphthene	0.8881147	4.765862	8.240375	8.005672E-02			CCC (30)	
Acenaphthylene	1.295328	4.367363	8.027625	8.607367E-02			15	
Anthracene	1.140544	4.254591	10.10862	0.0700752			15	
Benzo(a)anthracene	0.6970627	14.59061	13.80988	0.0529908			15	
Benzo(a)pyrene	1.125376	11.34597	16.38237	4.577814E-02			CCC (30)	
Benzo(b)fluoranthene	1.335075	13.04297	15.80187	8.137397E-02			15	
Benzo(g,h,i)perylene	0.8163407	8.478144	18.8055	4.843521E-02			15	
Benzo(k)fluoranthene	1.351132	6.606248	15.85263	0.0761119			15	
Chrysene	0.7018849	11.75411	13.87237	4.522786E-02			15	
Dibenz(a,h)anthracene	0.792152	14.22527	18.3905	4.438511E-02			15	
Fluoranthene	1.095824	8.181104	11.52912	1.610412E-02			CCC (30)	
Fluorene	0.8469727	7.646974	8.87125	4.967807E-02			15	
2-Fluorobiphenyl	0.9449172	5.432361	7.39325	5.511184E-02			15	
Indeno(1,2,3-cd)pyrene	0.807297	8.877407	18.33625	0.0475878			15	
1-Methylnaphthalene	0.8645271	7.716576	7.057125	4.664672E-02			15	
2-Methylnaphthalene	0.8917256	7.590679	6.94225	9.738335E-02			15	
Naphthalene	1.488499	9.765898	6.111375	7.795345E-02			15	
Phenanthrene	1.163651	3.638206	10.04475	7.061639E-02			15	
Pyrene	1.112402	6.963902	11.839	6.221472E-02			15	
Terphenyl-d14	0.6342447	8.591082	12.10513	2.846396E-02			15	
2,4,6-Tribromophenol	0.173125	9.199082	9.170834	8.799438E-02			15	

INITIAL CALIBRATION CHECK

SW8270C

Laboratory:	Empirical Laboratories, LLC	SDG:	1109191
Client:	Tetra Tech NUS, Inc. (T010)	Project:	Navy Fuel Depot CTO JM46
Instrument ID:	MS-BNA4	Calibration:	1238006
Lab File ID:	SEQ-ICV1.D	Calibration Date:	08/24/11 14:16
Sequence:	1H23712	Injection Date:	08/24/11
Lab Sample ID:	1H23712-ICV1	Injection Time:	19:02

		CONC. (ug/mL)		RESPONSE FACTOR			% DIFF / DRIFT	
COMPOUND	TYPE	STD	ICV	ICAL	ICV	MIN (#)	ICV	LIMIT (#)
Acenaphthene	A	5.000	5.510	0.8881147	0.9786847		10.2	20
Acenaphthylene	A	5.000	5.578	1.295328	1.445077		11.6	20
Anthracene	A	5.000	5.626	1.140544	1.283382		12.5	20
Benzo(a)anthracene	A	5.000	5.418	0.6970627	0.7552943		8.4	20
Benzo(a)pyrene	A	5.000	5.079	1.125376	1.143152		1.6	20
Benzo(b)fluoranthene	A	5.000	5.229	1.335075	1.39628		4.6	20
Benzo(g,h,i)perylene	A	5.000	5.076	0.8163407	0.8286846		1.5	20
Benzo(k)fluoranthene	A	5.000	5.414	1.351132	1.462908		8.3	20
Chrysene	A	5.000	5.424	0.7018849	0.7614294		8.5	20
Dibenz(a,h)anthracene	A	5.000	5.548	0.792152	0.8789424		11.0	20
Fluoranthene	A	5.000	5.359	1.095824	1.174563		7.2	20
Fluorene	A	5.000	5.736	0.8469727	0.9715661		14.7	20
Indeno(1,2,3-cd)pyrene	A	5.000	5.009	0.807297	0.808753		0.2	20
1-Methylnaphthalene	A	5.000	4.971	0.8645271	0.8594861		-0.6	20
2-Methylnaphthalene	A	5.000	5.068	0.8917256	0.9037654		1.4	20
Naphthalene	A	5.000	5.687	1.488499	1.69304		13.7	20
Phenanthrene	A	5.000	5.574	1.163651	1.297238		11.5	20
Pyrene	A	5.000	5.539	1.112402	1.232241		10.8	20
2-Fluorobiphenyl	A	5.000	5.058	0.9449172	0.9558622		1.2	20
Terphenyl-d14	A	5.000	5.406	0.6342447	0.6857866		8.1	20

Column to be used to flag Response Factor and %Diff/Drift values with an asterisk

* Values outside of QC limits

CONTINUING CALIBRATION CHECK

SW8270C

Laboratory:	Empirical Laboratories, LLC	SDG:	1109191
Client:	Tetra Tech NUS, Inc. (T010)	Project:	Navy Fuel Depot CTO JM46
Instrument ID:	MS-BNA4	Calibration:	1238006
Lab File ID:	SEQ-CCV2.D	Calibration Date:	08/24/11 14:16
Sequence:	1J29908	Injection Date:	10/23/11
Lab Sample ID:	1J29908-CCV1	Injection Time:	21:15

		CONC. (ug/mL)		RESPONSE FACTOR			% DIFF / DRIFT	
COMPOUND	TYPE	STD	CCV	ICAL	CCV	MIN (#)	CCV	LIMIT (#)
Acenaphthene	A	5.000	5.276	0.8881147	0.9370805		5.5	20
Acenaphthylene	A	5.000	5.475	1.295328	1.418417		9.5	20
Anthracene	A	5.000	4.991	1.140544	1.138568		-0.2	20
Benzo(a)anthracene	A	5.000	5.450	0.6970627	0.759765		9.0	20
Benzo(a)pyrene	A	5.000	5.147	1.125376	1.158411		2.9	20
Benzo(b)fluoranthene	A	5.000	4.834	1.335075	1.290922		-3.3	20
Benzo(g,h,i)perylene	A	5.000	6.368	0.8163407	1.039782		27.4	20 *
Benzo(k)fluoranthene	A	5.000	4.908	1.351132	1.326206		-1.8	20
Chrysene	A	5.000	5.398	0.7018849	0.7577323		8.0	20
Dibenz(a,h)anthracene	A	5.000	6.487	0.792152	1.027819		29.8	20 *
Fluoranthene	A	5.000	5.032	1.095824	1.102803		0.6	20
Fluorene	A	5.000	5.465	0.8469727	0.9257625		9.3	20
Indeno(1,2,3-cd)pyrene	A	5.000	6.169	0.807297	0.9960702		23.4	20 *
1-Methylnaphthalene	A	5.000	5.669	0.8645271	0.9802879		13.4	20
2-Methylnaphthalene	A	5.000	5.644	0.8917256	1.006524		12.9	20
Naphthalene	A	5.000	5.474	1.488499	1.629683		9.5	20
Phenanthrene	A	5.000	5.026	1.163651	1.169829		0.5	20
Pyrene	A	5.000	4.933	1.112402	1.097492		-1.3	20
2-Fluorobiphenyl	A	5.000	5.942	0.9449172	1.122923		18.8	20
Terphenyl-d14	A	5.000	5.866	0.6342447	0.7440416		17.3	20

Column to be used to flag Response Factor and %Diff/Drift values with an asterisk

* Values outside of QC limits

ANALYSIS DATA SHEET

Blank

Laboratory: Empirical Laboratories, LLC SDG: 1109191

Client: Tetra Tech NUS, Inc. (T010) Project: Navy Fuel Depot CTO JM46

Matrix: Laboratory ID: 1J03009-BLK2 File ID: J03009B1.D

Sampled: Prepared: Analyzed: 10/23/11 22:13

Solids: Preparation: EXT_3546 Dilution:

Batch: 1J03009 Sequence: 1J29908 Calibration: 1238006 Instrument: MS-BNA4

CAS NO.	COMPOUND	ONC. (ug/Kg we	DL	LOD	LOQ	Q
83-32-9	Acenaphthene		1.67	3.33	6.67	U
208-96-8	Acenaphthylene		1.67	3.33	6.67	U
120-12-7	Anthracene		1.67	3.33	6.67	U
56-55-3	Benzo(a)anthracene		1.67	3.33	6.67	U
50-32-8	Benzo(a)pyrene		1.67	3.33	6.67	U
205-99-2	Benzo(b)fluoranthene		1.67	3.33	6.67	U
191-24-2	Benzo(g,h,i)perylene		1.67	3.33	6.67	X, U
207-08-9	Benzo(k)fluoranthene		1.67	3.33	6.67	U
218-01-9	Chrysene		1.67	3.33	6.67	U
53-70-3	Dibenz(a,h)anthracene		1.67	3.33	6.67	X, U
206-44-0	Fluoranthene		1.67	3.33	6.67	U
86-73-7	Fluorene		1.67	3.33	6.67	U
193-39-5	Indeno(1,2,3-cd)pyrene		1.67	3.33	6.67	X, U
90-12-0	1-Methylnaphthalene		1.67	3.33	6.67	U
91-57-6	2-Methylnaphthalene		1.67	3.33	6.67	U
91-20-3	Naphthalene		1.67	3.33	6.67	U
85-01-8	Phenanthrene		1.67	3.33	6.67	U
129-00-0	Pyrene		1.67	3.33	6.67	U

SYSTEM MONITORING COMPOUND	ADDED (ug/Kg wet)	CONC (ug/Kg wet)	% REC	QC LIMITS	Q
2-Fluorobiphenyl	3333	2978	89.3	14 - 129	
Terphenyl-d14	3333	3537	106	14 - 129	

ANALYSIS DATA SHEET

LCS

Laboratory: Empirical Laboratories, LLC SDG: 1109191

Client: Tetra Tech NUS, Inc. (T010) Project: Navy Fuel Depot CTO JM46

Matrix: Laboratory ID: 1J03009-BS2 File ID: J03009L1.D

Sampled: Prepared: Analyzed: 10/23/11 21:44

Solids: Preparation: EXT_3546 Dilution:

Batch: 1J03009 Sequence: 1J29908 Calibration: 1238006 Instrument: MS-BNA4

CAS NO.	COMPOUND	ONC. (ug/Kg we	DL	LOD	LOQ	Q
83-32-9	Acenaphthene	53.73	1.67	3.33	6.67	
208-96-8	Acenaphthylene	48.88	1.67	3.33	6.67	
120-12-7	Anthracene	53.63	1.67	3.33	6.67	
56-55-3	Benzo(a)anthracene	56.31	1.67	3.33	6.67	
50-32-8	Benzo(a)pyrene	54.92	1.67	3.33	6.67	
205-99-2	Benzo(b)fluoranthene	55.17	1.67	3.33	6.67	
191-24-2	Benzo(g,h,i)perylene	72.47	1.67	3.33	6.67	X
207-08-9	Benzo(k)fluoranthene	54.85	1.67	3.33	6.67	
218-01-9	Chrysene	55.31	1.67	3.33	6.67	
53-70-3	Dibenz(a,h)anthracene	70.50	1.67	3.33	6.67	X
206-44-0	Fluoranthene	57.57	1.67	3.33	6.67	
86-73-7	Fluorene	56.48	1.67	3.33	6.67	
193-39-5	Indeno(1,2,3-cd)pyrene	71.90	1.67	3.33	6.67	X
90-12-0	1-Methylnaphthalene	57.53	1.67	3.33	6.67	
91-57-6	2-Methylnaphthalene	62.17	1.67	3.33	6.67	
91-20-3	Naphthalene	60.97	1.67	3.33	6.67	
85-01-8	Phenanthrene	57.05	1.67	3.33	6.67	
129-00-0	Pyrene	57.19	1.67	3.33	6.67	

SYSTEM MONITORING COMPOUND	ADDED (ug/Kg wet)	CONC (ug/Kg wet)	% REC	QC LIMITS	Q
2-Fluorobiphenyl	3333	3072	92.2	14 - 129	
Terphenyl-d14	3333	3688	111	14 - 129	

ANALYSIS DATA SHEET

Matrix Spike

Laboratory: Empirical Laboratories, LLC SDG: 1109191

Client: Tetra Tech NUS, Inc. (T010) Project: Navy Fuel Depot CTO JM46

Matrix: Laboratory ID: 1J03009-MS2 File ID: 0919102M.D

Sampled: Prepared: Analyzed: 10/23/11 23:42

Solids: Preparation: EXT_3546 Dilution:

Batch: 1J03009 Sequence: 1J29908 Calibration: 1238006 Instrument: MS-BNA4

CAS NO.	COMPOUND	ONC. (ug/Kg dry	DL	LOD	LOQ	Q
83-32-9	Acenaphthene	1662	1.70	3.40	6.80	
208-96-8	Acenaphthylene	1548	1.70	3.40	6.80	
120-12-7	Anthracene	1855	1.70	3.40	6.80	
56-55-3	Benzo(a)anthracene	1945	1.70	3.40	6.80	
50-32-8	Benzo(a)pyrene	1854	1.70	3.40	6.80	
205-99-2	Benzo(b)fluoranthene	2062	1.70	3.40	6.80	
191-24-2	Benzo(g,h,i)perylene	2161	1.70	3.40	6.80	X
207-08-9	Benzo(k)fluoranthene	1993	1.70	3.40	6.80	
218-01-9	Chrysene	1807	1.70	3.40	6.80	
53-70-3	Dibenz(a,h)anthracene	2256	1.70	3.40	6.80	X
206-44-0	Fluoranthene	1880	1.70	3.40	6.80	
86-73-7	Fluorene	1845	1.70	3.40	6.80	
193-39-5	Indeno(1,2,3-cd)pyrene	2139	1.70	3.40	6.80	X
90-12-0	1-Methylnaphthalene	1561	1.70	3.40	6.80	
91-57-6	2-Methylnaphthalene	1686	1.70	3.40	6.80	
91-20-3	Naphthalene	1530	1.70	3.40	6.80	
85-01-8	Phenanthrene	1864	1.70	3.40	6.80	
129-00-0	Pyrene	1811	1.70	3.40	6.80	

SYSTEM MONITORING COMPOUND	ADDED (ug/Kg dry)	CONC (ug/Kg dry)	% REC	QC LIMITS	Q
2-Fluorobiphenyl	3400	1749	51.5	14 - 129	
Terphenyl-d14	3400	2278	67.0	14 - 129	

ANALYSIS DATA SHEET

Matrix Spike Dup

Laboratory: Empirical Laboratories, LLC SDG: 1109191

Client: Tetra Tech NUS, Inc. (T010) Project: Navy Fuel Depot CTO JM46

Matrix: Laboratory ID: 1J03009-MSD2 File ID: 0919102S.D

Sampled: Prepared: Analyzed: 10/24/11 00:12

Solids: Preparation: EXT_3546 Dilution:

Batch: 1J03009 Sequence: 1J29908 Calibration: 1238006 Instrument: MS-BNA4

CAS NO.	COMPOUND	ONC. (ug/Kg dry	DL	LOD	LOQ	Q
83-32-9	Acenaphthene	2384	1.70	3.40	6.80	
208-96-8	Acenaphthylene	2263	1.70	3.40	6.80	
120-12-7	Anthracene	2054	1.70	3.40	6.80	
56-55-3	Benzo(a)anthracene	2083	1.70	3.40	6.80	
50-32-8	Benzo(a)pyrene	2014	1.70	3.40	6.80	
205-99-2	Benzo(b)fluoranthene	2143	1.70	3.40	6.80	
191-24-2	Benzo(g,h,i)perylene	2468	1.70	3.40	6.80	X
207-08-9	Benzo(k)fluoranthene	2048	1.70	3.40	6.80	
218-01-9	Chrysene	1955	1.70	3.40	6.80	
53-70-3	Dibenz(a,h)anthracene	2604	1.70	3.40	6.80	X
206-44-0	Fluoranthene	1927	1.70	3.40	6.80	
86-73-7	Fluorene	2458	1.70	3.40	6.80	
193-39-5	Indeno(1,2,3-cd)pyrene	2396	1.70	3.40	6.80	X
90-12-0	1-Methylnaphthalene	2519	1.70	3.40	6.80	
91-57-6	2-Methylnaphthalene	2843	1.70	3.40	6.80	
91-20-3	Naphthalene	2652	1.70	3.40	6.80	
85-01-8	Phenanthrene	2096	1.70	3.40	6.80	
129-00-0	Pyrene	1860	1.70	3.40	6.80	

SYSTEM MONITORING COMPOUND	ADDED (ug/Kg dry)	CONC (ug/Kg dry)	% REC	QC LIMITS	Q
2-Fluorobiphenyl	3400	2896	85.2	14 - 129	
Terphenyl-d14	3400	2323	68.3	14 - 129	

HOLDING TIME SUMMARY

SW8270C

Laboratory: Empirical Laboratories, LLC SDG: 1109191

Client: Tetra Tech NUS, Inc. (T010) Project: Navy Fuel Depot CTO JM46

Sample Name	Date Collected	Date Received	Date Prepared	Days to Prep	Max Days to Prep	Date Analyzed	Days to Analysis	Max Days to Analysis	Q
FLC-4-SS01-0006-092211	09/22/11 08:45	09/24/11 09:00	10/04/11 11:00	12.09	14.00	10/23/11 22:42	19.49	40.00	
FLC-4-SS01-0624-092211	09/22/11 09:00	09/24/11 09:00	10/04/11 11:00	12.08	14.00	10/23/11 23:12	19.51	40.00	
FLC-4-SB01-0204-092211	09/22/11 09:25	09/24/11 09:00	10/04/11 11:00	12.07	14.00	10/24/11 00:41	19.57	40.00	
FLC-4-SS02-0006-092211	09/22/11 10:05	09/24/11 09:00	10/04/11 11:00	12.04	14.00	10/24/11 03:10	19.67	40.00	
FLC-4-SS02-0624-092211	09/22/11 10:20	09/24/11 09:00	10/04/11 11:00	12.03	14.00	10/24/11 01:11	19.59	40.00	
FLC-4-SB02-0204-092211	09/22/11 10:30	09/24/11 09:00	10/04/11 11:00	12.02	14.00	10/24/11 03:39	19.69	40.00	

Data for SW8270C (PAH) Supporting Raw Data / Logs

Sequence Name: C:\msdchem\1\sequence\082411b4.S
Comment: EPA8270
Operator: MEC
Data Path: D:\DATA\082411B4\
Instrument Control Pre-Seq Cmd:
Data Analysis Pre-Seq Cmd:

Instrument Control Post-Seq Cmd:
Data Analysis Post-Seq Cmd:

94 8

8/25/11

Method Sections To Run
(X) Full Method
( ) Reprocessing Only

On A Barcode Mismatch
(X) Inject Anyway
( ) Don't Inject

Line			Sample Name/Misc Info
1)	Sample	1	SEQ-TUN1 DFBN4LOW DF0824B1;;;;;11G0602 14:16, 8/24
2)	Sample	2	SEQ-CAL1 IXBN4LOW CAL-0.10PPM;;;;;11D0430
3)	Sample	3	SEQ-CAL2 IXBN4LOW CAL-0.20PPM;;;;;11C0008
4)	Sample	4	SEQ-CAL3 IXBN4LOW CAL-0.50PPM;;;;;11C0009
5)	Sample	5	SEQ-CAL4 IXBN4LOW CAL-1.00PPM;;;;;11C0010
6)	Sample	6	SEQ-CAL5 IXBN4LOW CAL-5.00PPM;;;;;11C0011
7)	Sample	7	SEQ-CAL6 IXBN4LOW CAL-10.0PPM;;;;;11C0012
8)	Sample	8	SEQ-CAL7 IXBN4LOW CAL-20.0PPM;;;;;11C0013
9)	Sample	9	SEQ-CAL8 IXBN4LOW CAL-40.0PPM;;;;;11C0014 - Did not use
10)	Sample	10	SEQ-CAL9 IXBN4LOW CAL-50.0PPM;;;;;11C0015
11)	Sample	11	SEQ-ICV1 IXBN4LOW ICV-5.0PPM;;;;;11H0666 19:02, 8/24

Last Modified: Thu Aug 25 12:53:58 2011

Data File: \\ELABNSH05\TARGET\chem\bna4.i\082411B4.b\SEQ-TUN1.D

Date : 24-AUG-2011 14:16

Client ID: 50ppm DFTPP

Instrument: bna4.i

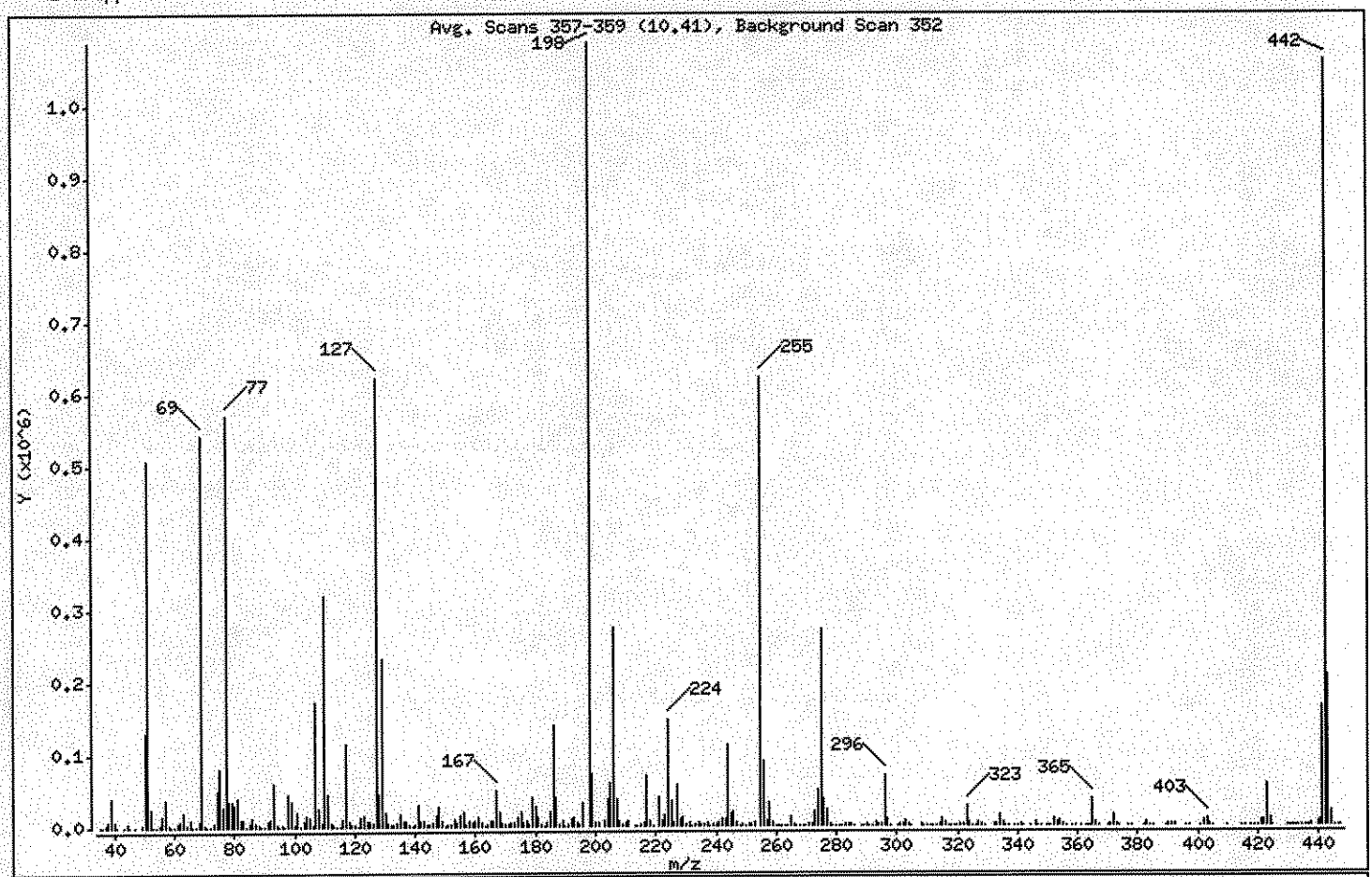
Sample Info: DF0824B1;;;;;11G0602

Operator: MEC

Column phase: DB5-MS

Column diameter: 0.25

1 dftpp



m/e	ION ABUNDANCE CRITERIA	% RELATIVE ABUNDANCE
198	Base Peak, 100% relative abundance	100.00
51	30.00 - 60.00% of mass 198	46.61
68	Less than 2.00% of mass 69	0.73 (1.46)
69	Mass 69 relative abundance	49.80
70	Less than 2.00% of mass 69	0.19 (0.38)
127	40.00 - 60.00% of mass 198	57.32
197	Less than 1.00% of mass 198	0.00
199	5.00 - 9.00% of mass 198	6.71
275	10.00 - 30.00% of mass 198	24.96
365	Greater than 1.00% of mass 198	3.37
441	Present, but less than mass 443	15.21
442	Greater than 40.00% of mass 198	97.74
443	17.00 - 23.00% of mass 442	19.08 (19.52)

MB 8/29/11

8/25/11

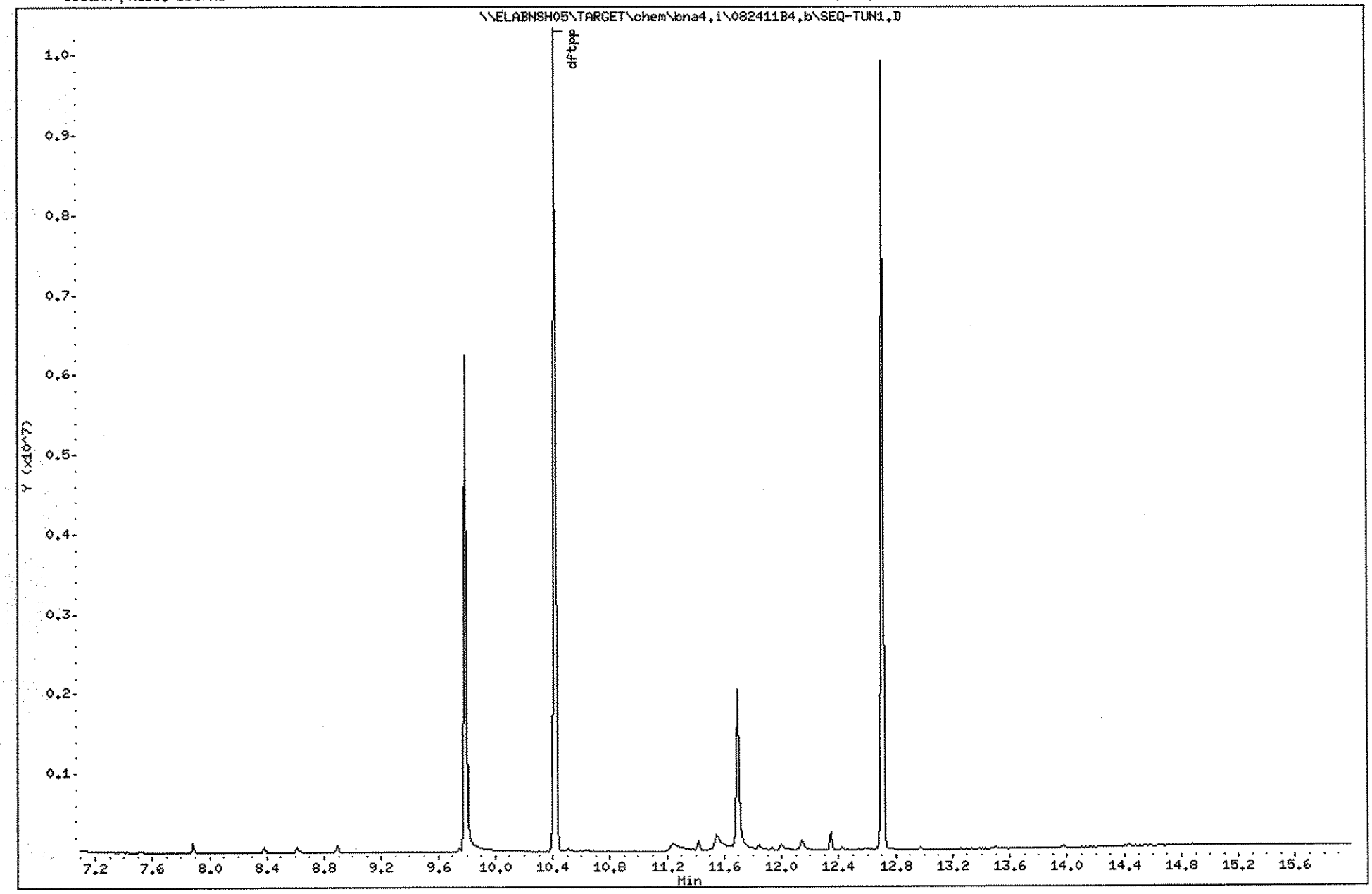
Data File: \\ELABNSH05\TARGET\chem\bna4.i\082411B4.b\SEQ-TUN1.D
Date : 24-AUG-2011 14:16
Client ID: 50ppm DFTPP
Sample Info: DF0824B1;;;;;11G0602

Instrument: bna4.i

Operator: MEC

Column phase: DB5-MS

Column diameter: 0.25



Data File: \\ELABNSH05\TARGET\chem\bna4.i\082411B4.b\SEQ-TUN1.D

Date : 24-AUG-2011 14:16

Client ID: 50ppm DFTPP

Instrument: bna4.i

Sample Info: DF0824B1;;;;;11G0602

Operator: MEC

Column phase: DB5-MS

Column diameter: 0.25

Data File: SEQ-TUN1.D

Spectrum: Avg. Scans 357-359 (10.41), Background Scan 352

Location of Maximum: 198.00

Number of points: 370

m/z	Y	m/z	Y	m/z	Y	m/z	Y
35.10	138	131.10	4502	228.00	9004	324.00	4866
36.00	474	132.00	1705	229.00	12159	325.10	402
37.10	2005	132.90	1315	230.10	2236	326.00	540
38.00	6378	134.00	5818	231.10	5125	327.00	4229
39.10	39464	135.10	18280	232.10	753	328.00	2854
40.00	6603	136.00	7029	233.00	1378	329.10	617
41.00	1236	137.10	6834	234.00	4842	332.10	2357
43.10	660	138.00	1788	234.90	3330	333.10	2133
44.10	4908	139.10	1200	236.00	2480	334.10	13837
45.00	1193	140.00	2025	237.00	4686	335.10	4338
47.00	423	141.00	28952	237.80	638	336.10	918
49.10	3558	141.90	7897	239.10	2160	336.90	216
50.10	131072	143.10	7384	240.10	1311	338.80	271
51.10	507136	144.00	1973	241.10	3979	340.00	651
52.10	24000	145.00	1425	242.00	8771	341.10	2919
53.00	1221	146.00	4848	243.10	9978	341.90	629
54.20	223	147.00	14151	244.10	113416	344.20	249
55.00	2457	148.00	28664	245.10	17808	346.00	5212
56.00	14955	149.00	6707	246.00	19448	347.00	649
57.00	37184	150.10	826	247.00	4497	348.10	204
58.10	1756	151.00	3216	247.90	1030	349.90	215
58.90	660	151.70	1992	248.30	1118	350.40	267
60.10	363	153.10	9624	249.00	3551	351.00	1000
61.00	5660	154.00	5769	249.90	869	352.10	8895
62.00	8086	155.00	15540	250.90	1294	353.10	6158
63.00	20144	156.10	21128	252.00	1826	354.10	7429
64.00	3316	157.00	3658	253.10	4117	354.90	1385
65.10	10893	157.90	6646	255.00	624000	356.30	256
66.00	799	159.00	5642	256.00	90392	358.20	112
67.10	956	160.00	7656	257.00	6302	359.20	573
68.10	7893	161.00	12251	258.00	33480	360.90	459
69.00	541824	162.00	4703	259.10	5279	362.70	252
70.00	2055	163.10	588	260.10	981	363.40	273
70.90	408	164.00	1664	260.80	427	364.00	433
72.20	303	165.00	8325	261.30	434	365.00	36664

Data File: \\ELABNSH05\TARGET\chem\bna4.i\082411B4.b\SEQ-TUN1.D

Date : 24-AUG-2011 14:16

Client ID: 50ppm DFTPP

Instrument: bna4.i

Sample Info: DF0824B1;;;;;11G0602

Operator: MEC

Column phase: DB5-MS

Column diameter: 0.25

Data File: SEQ-TUN1.D

Spectrum: Avg. Scans 357-359 (10.41), Background Scan 352

Location of Maximum: 198.00

Number of points: 370

m/z	Y	m/z	Y	m/z	Y	m/z	Y
73.00	4043	166.00	7207	262.20	346	366.00	5005
74.10	49112	167.00	49120	263.10	407	367.10	164
75.00	80200	168.00	20816	264.00	971	370.10	962
76.10	27680	168.90	4036	265.00	13079	371.00	2501
77.10	569728	170.00	1783	266.00	2803	372.10	14555
78.10	35456	170.90	2296	266.90	103	373.00	3418
79.00	36152	172.00	4430	267.70	582	374.00	404
80.00	29072	173.10	6027	269.10	291	376.90	521
81.00	39992	174.00	12520	270.00	785	378.00	157
81.90	9879	175.10	20560	271.00	2666	382.00	196
83.00	9046	176.00	5522	272.10	2995	383.00	3920
84.00	810	177.00	8099	273.00	19936	384.00	1004
85.00	5800	178.00	2592	274.00	49536	385.00	358
86.00	11610	179.00	41128	275.00	271616	389.10	199
87.00	4452	180.00	27560	276.00	36416	390.10	2362
88.00	1318	181.00	12872	277.00	21792	391.10	1338
89.00	916	182.00	1710	278.00	3399	392.20	1272
89.90	247	182.90	626	279.00	379	395.80	339
91.00	8746	184.00	4485	280.00	434	397.00	259
92.00	9130	185.10	20656	280.90	192	401.00	1146
93.00	59384	186.00	138816	282.00	874	402.00	6987
94.10	3526	187.00	40968	283.00	2871	403.10	8872
95.10	674	188.00	3592	284.10	1658	404.10	3391
96.10	3331	189.00	8228	285.00	3644	404.80	546
96.90	1175	189.90	1166	286.10	714	409.90	196
98.00	44512	191.00	3689	288.20	286	414.90	271
99.00	34736	192.00	10442	289.00	1193	416.10	173
100.00	2907	193.00	12985	290.00	1299	417.70	219
101.00	20352	194.10	3883	291.00	705	418.70	276
101.90	976	194.90	2118	292.10	709	419.80	134
103.00	6912	196.00	32528	293.00	4287	421.00	7606
104.00	14081	198.00	1088000	294.00	2124	422.00	7403
105.00	12574	199.00	72968	295.10	2637	423.10	57088
106.10	3327	200.00	6125	296.00	69536	424.00	10523
107.00	173248	201.50	4922	297.00	10565	424.80	1227

Data File: \\ELABNSH05\TARGET\chem\bna4.i\082411B4.b\SEQ-TUN1.D

Date : 24-AUG-2011 14:16

Client ID: 50ppm DFTPP

Instrument: bna4.i

Sample Info: DF0824B1;;;;;11G0602

Operator: MEC

Column phase: DB5-MS

Column diameter: 0.25

Data File: SEQ-TUN1.D

Spectrum: Avg. Scans 357-359 (10.41), Background Scan 352

Location of Maximum: 198.00

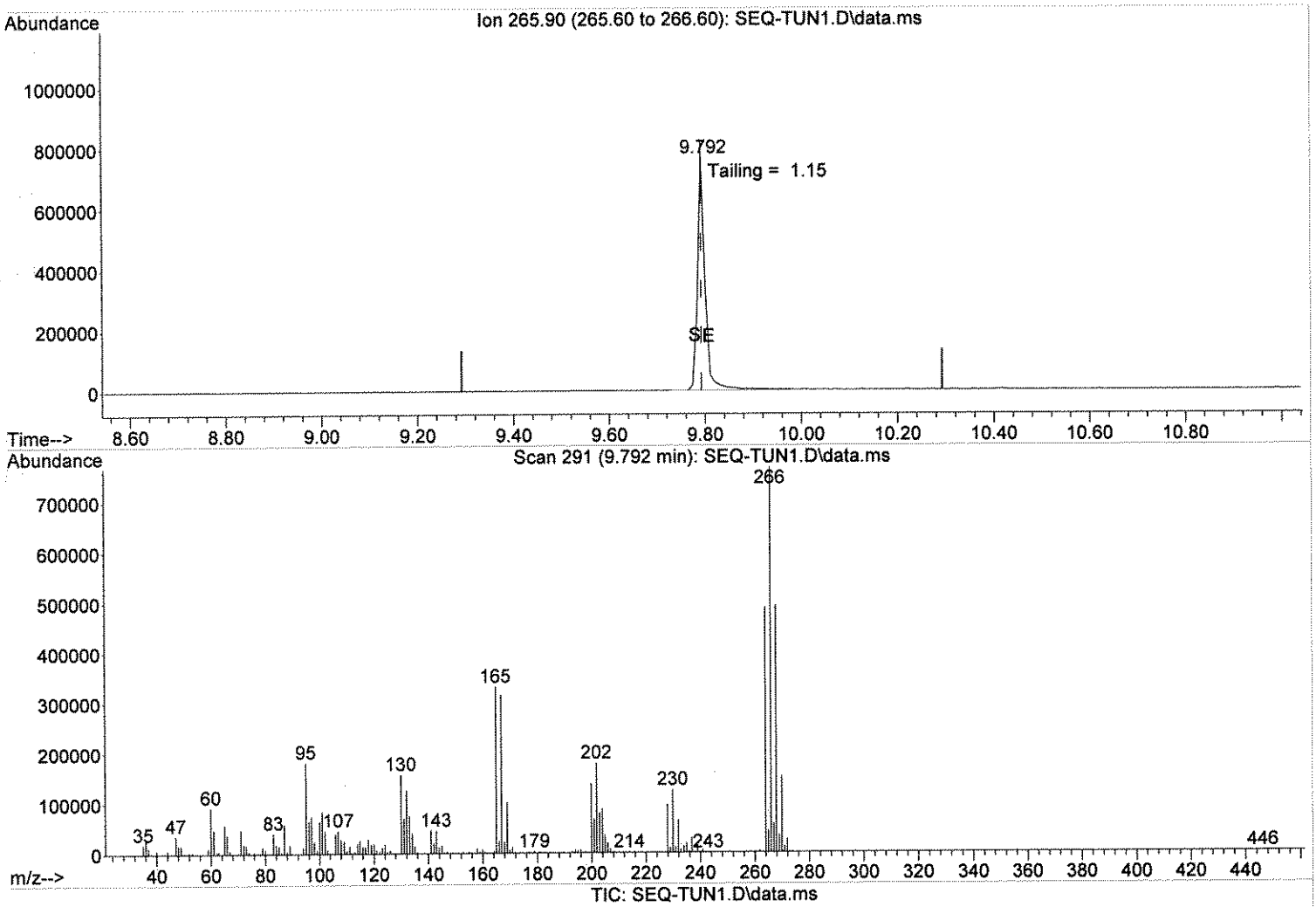
Number of points: 370

m/z	Y	m/z	Y	m/z	Y	m/z	Y
108.00	26152	203.00	7451	298.00	605	429.60	190
109.00	4944	204.00	37648	300.20	135	430.10	122
110.00	319552	205.00	59264	301.00	1305	430.80	245
111.00	43816	206.10	274752	302.10	1316	431.30	241
112.10	5010	207.10	37320	303.00	6982	431.90	131
113.00	1582	208.00	8671	304.00	2575	432.40	255
114.00	560	209.10	2570	304.90	372	433.10	326
115.20	628	210.10	3893	308.10	1713	434.40	659
116.00	9960	211.10	8320	308.90	626	435.40	854
117.00	114336	213.00	707	310.00	712	436.00	677
118.00	8149	214.00	478	311.10	337	436.90	812
119.00	1373	214.90	2603	312.10	389	437.70	1873
120.00	1876	216.10	4872	313.00	772	439.60	4716
121.10	587	217.00	70024	314.00	3665	440.20	7504
122.00	11336	218.00	7826	315.00	9322	441.00	165440
123.10	14790	219.00	917	316.10	4467	442.10	1063424
124.00	7473	221.00	41160	317.10	938	443.10	207616
125.00	6445	222.00	8021	317.80	129	444.10	20712
126.20	4835	223.00	15731	318.90	190	445.00	1250
127.00	623616	224.00	148288	319.70	160	446.20	808
128.00	46192	225.00	34144	321.00	1718	447.30	349
129.00	232320	226.10	3769	322.10	1608		
130.00	19416	227.00	57160	323.10	27128		

Quantitation Report (Qedit)

Data Path : D:\DATA\082411B4\
Data File : SEQ-TUN1.D
Acq On : 24 Aug 2011 2:16 pm
Operator : MEC
Sample : DF0824B1;;;;;11G0602
Misc : ;3;DFTPP;;;;all.sub;
ALS Vial : 1 Sample Multiplier: 1

Quant Time: Aug 25 12:42:42 2011
Quant Method : C:\MSDCHEM\1\METHODS\DFTPP.M
Quant Title : DFTPP EVALUATION
QLast Update : Thu Jun 30 14:07:24 2011
Response via : Initial Calibration



(1) pentachlorophenol

9.792min (+0.000) 0.00 m

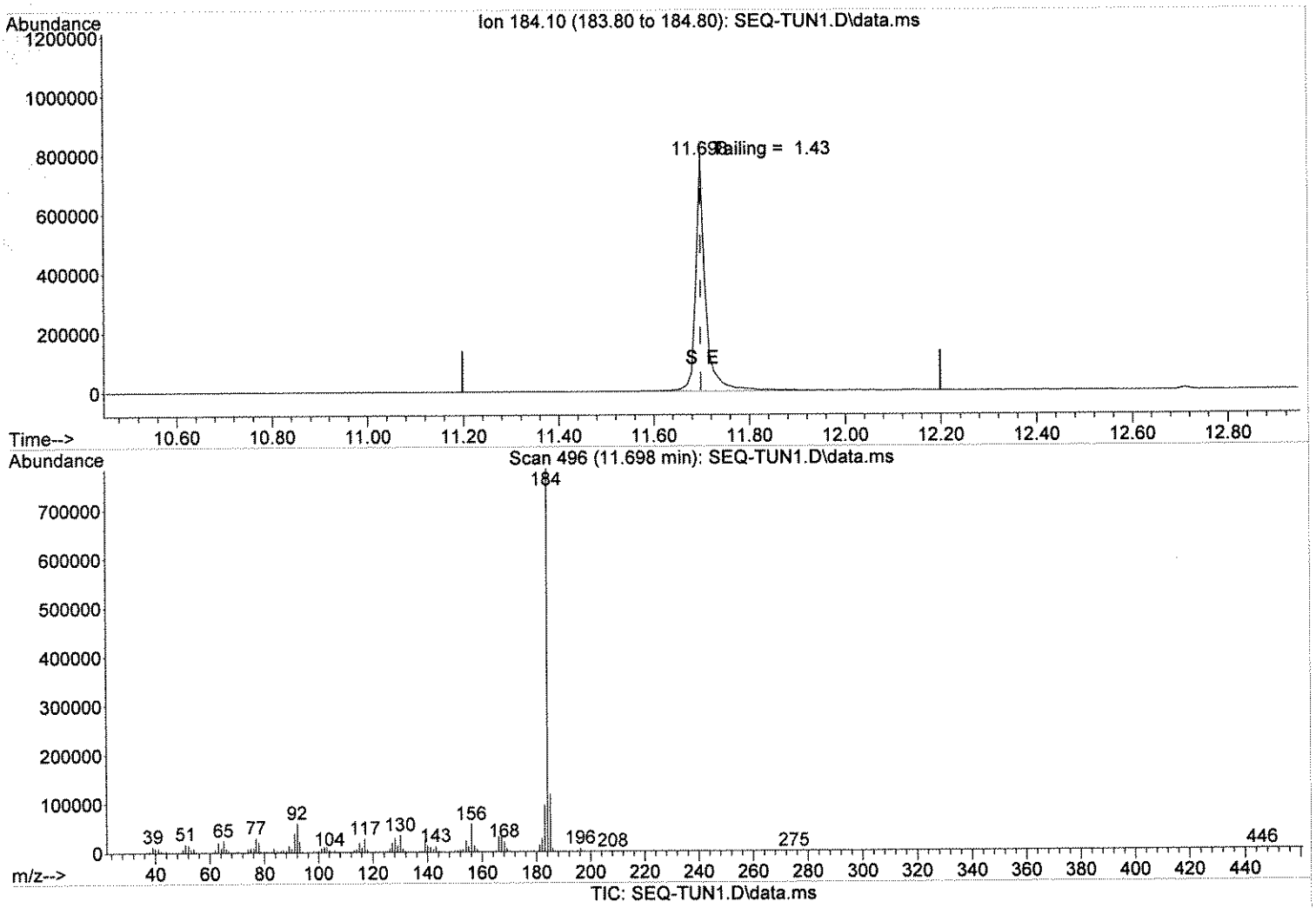
response 857816

Ion	Exp%	Act%
265.90	100	100
0.00	0.00	0.00
0.00	0.00	0.00
0.00	0.00	0.00

Quantitation Report (Qedit)

Data Path : D:\DATA\082411B4\
Data File : SEQ-TUN1.D
Acq On : 24 Aug 2011 2:16 pm
Operator : MEC
Sample : DF0824B1;;;;;11G0602
Misc : ;3;DFTPP;;;;all.sub;
ALS Vial : 1 Sample Multiplier: 1

Quant Time: Aug 25 12:42:42 2011
Quant Method : C:\MSDCHEM\1\METHODS\DFTPP.M
Quant Title : DFTPP EVALUATION
QLast Update : Thu Jun 30 14:07:24 2011
Response via : Initial Calibration



(2) benzidine

11.698min (-0.000) 0.00

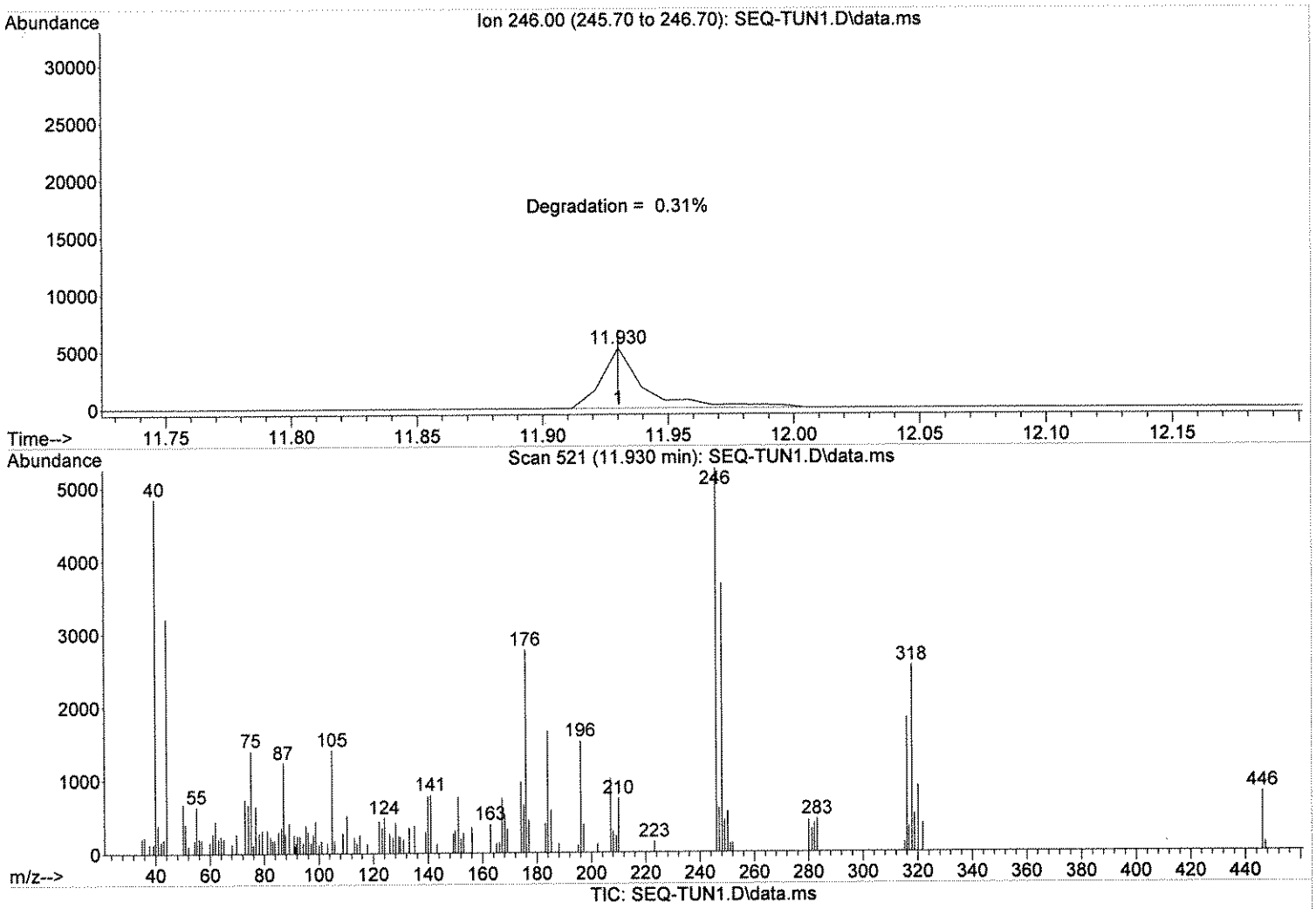
response 1127655

Ion	Exp%	Act%
184.10	100	100
0.00	0.00	0.00
0.00	0.00	0.00
0.00	0.00	0.00

Quantitation Report (Qedit)

Data Path : D:\DATA\082411B4\
Data File : SEQ-TUN1.D
Acq On : 24 Aug 2011 2:16 pm
Operator : MEC
Sample : DF0824B1;;;;;11G0602
Misc : ;3;DFTPP;;;;all.sub;
ALS Vial : 1 Sample Multiplier: 1

Quant Time: Aug 25 12:42:42 2011
Quant Method : C:\MSDCHEM\1\METHODS\DFTPP.M
Quant Title : DFTPP EVALUATION
QLast Update : Thu Jun 30 14:07:24 2011
Response via : Initial Calibration



(3) p,p'-DDE

11.930min (+0.000) 0.00 m

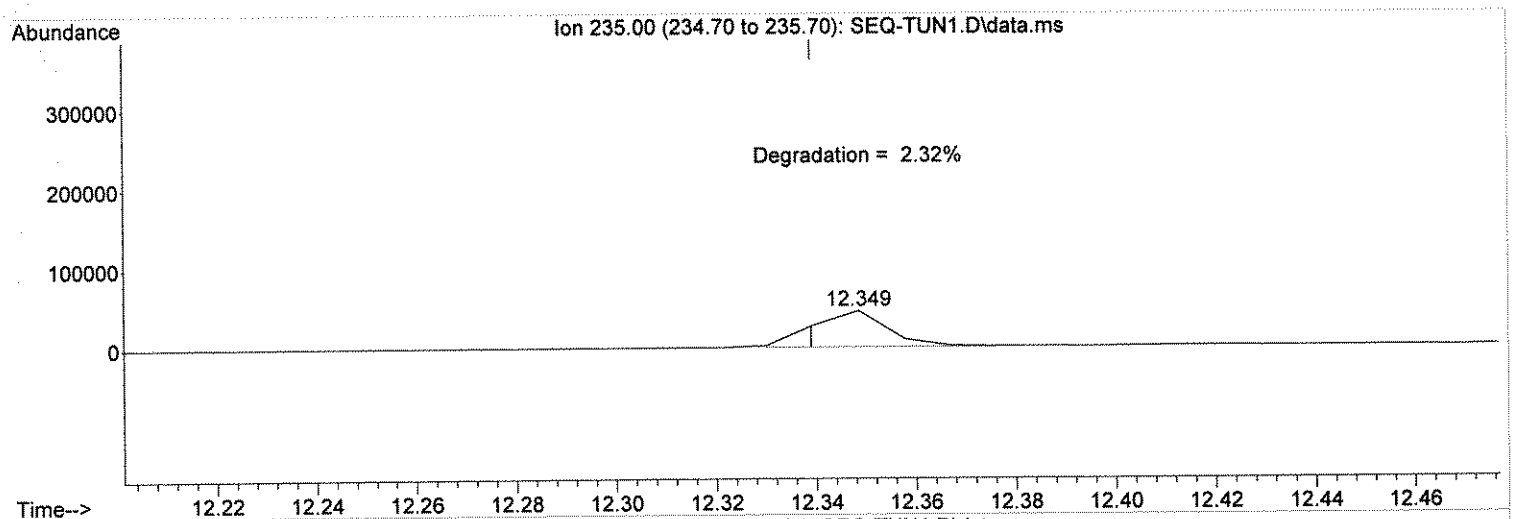
response 6184

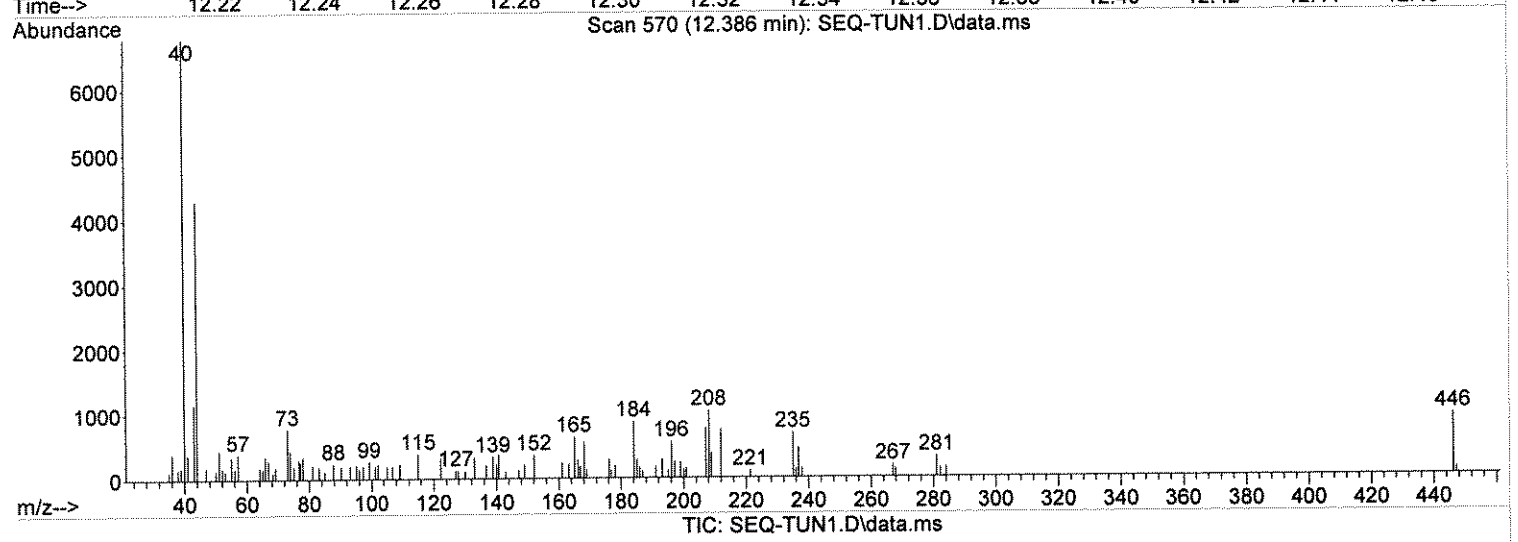
Ion	Exp%	Act%
246.00	100	100
0.00	0.00	0.00
0.00	0.00	0.00
0.00	0.00	0.00

Quantitation Report (Qedit)

Data Path : D:\DATA\082411B4\
Data File : SEQ-TUN1.D
Acq On : 24 Aug 2011 2:16 pm
Operator : MEC
Sample : DF0824B1;;;;;11G0602
Misc : ;3;DFTPP;;;;all.sub;
ALS Vial : 1 Sample Multiplier: 1

Quant Time: Aug 25 12:42:42 2011
Quant Method : C:\MSDCHEM\1\METHODS\DFTPP.M
Quant Title : DFTPP EVALUATION
QLast Update : Thu Jun 30 14:07:24 2011
Response via : Initial Calibration





(4) m,p'-DDD

12.349min (+0.010) 0.00 m

response 46815

Ion	Exp%	Act%
235.00	100	100
0.00	0.00	0.00
0.00	0.00	0.00
0.00	0.00	0.00

Data File: \\ELABNSH05\TARGET\chem\bna4.i\082411B4.b\SEQ-CAL1.D
Report Date: 25-Aug-2011 13:28

Laboratory Name

Data file : \\ELABNSH05\TARGET\chem\bna4.i\082411B4.b\SEQ-CAL1.D
Lab Smp Id: SEQ-CAL1 Client Smp ID: SEQ-CAL1
Inj Date : 24-AUG-2011 14:35 MS Autotune Date: 16-JUN-2011 16:30
Operator : MEC Inst ID: bna4.i
Smp Info : CAL-0.10PPM;;;;;11D0430
Misc Info : ;1;;;1;;pahmisc.sub;
Comment :
Method : \\ELABNSH05\TARGET\chem\bna4.i\082411B4.b\IXBN4LOW.m
Meth Date : 25-Aug-2011 13:28 mcobb Quant Type: ISTD
Cal Date : 24-AUG-2011 14:35 Cal File: SEQ-CAL1.D
Als bottle: 2 Calibration Sample, Level: 1
Dil Factor: 1.00000
Integrator: HP RTE Compound Sublist: pahmisc.sub
Target Version: 4.04
Processing Host: TARGET09_VM

VM 8/29/11

Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	AMOUNTS CAL-AMT (ng/ul)	AMOUNTS ON-COL (ng/ul)
* 102 Phenanthrene-d10	188	10.012	10.012	(1.000)	111232	1.00000	
4 1,4-Dioxane	88	1.906	1.906	(0.190)	3123	0.10000	0.1307
21 N-Nitroso-di-n-propylamine	70	5.104	5.104	(0.510)	4205	0.10000	0.1045
39 Isophorone	82	5.559	5.559	(0.555)	10191	0.10000	0.09356
51 Naphthalene	128	6.108	6.108	(0.610)	19442	0.10000	0.1174
53 Hexachlorobutadiene	225	6.257	6.257	(0.625)	2875	0.10000	0.09315
55 2-Methylnaphthalene	142	6.945	6.945	(0.694)	11099	0.10000	0.1119
56 1-Methylnaphthalene	142	7.056	7.056	(0.705)	10710	0.10000	0.1114
70 Hexachlorocyclopentadiene	237	7.121	7.121	(0.711)	1224	0.10000	0.3885
$ 74 2-Fluorobiphenyl	172	7.391	7.391	(0.738)	10666	0.10000	0.1015
77 Acenaphthylene	152	8.023	8.023	(0.801)	14577	0.10000	0.1012
80 Acenaphthene	153	8.237	8.237	(0.823)	10290	0.10000	0.1042
84 Dibenzofuran	168	8.451	8.451	(0.844)	12345	0.10000	0.1036
88 Fluorene	166	8.869	8.869	(0.886)	8018	0.10000	0.08511
104 Carbazole	167	10.328	10.328	(1.032)	8956	0.10000	0.1012
$ 107 2,4,6-Tribromophenol	330	9.176	9.176	(0.916)	3210	0.20000	0.1667
111 Phenanthrene	178	10.040	10.040	(1.003)	12241	0.10000	0.09457
109 Hexachlorobenzene	284	9.538	9.538	(0.953)	4410	0.10000	0.1107
112 Anthracene	178	10.105	10.105	(1.009)	11859	0.10000	0.09348
116 Fluoranthene	202	11.528	11.528	(1.151)	10498	0.10000	0.08613
134 Pyrene	202	11.844	11.844	(1.183)	13225	0.10000	0.1069
* 154 Perylene-d12	264	16.483	16.483	(1.000)	43404	1.00000	
$ 135 Terphenyl-d14	244	12.104	12.104	(1.209)	6448	0.10000	0.09140
138 Benzo(a)anthracene	228	13.815	13.815	(1.380)	6017	0.10000	0.07760
139 Chrysene	228	13.870	13.870	(1.385)	6624	0.10000	0.08484
140 Bis(2-ethylhexyl)phthalate	149	14.010	14.010	(0.850)	7694	0.10000	0.1074

8/25/11

Data File: \\ELABNSH05\TARGET\chem\bna4.i\082411B4.b\SEQ-CAL1.D
Report Date: 25-Aug-2011 13:28

Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	AMOUNTS CAL-AMT (ng/ul)	AMOUNTS ON-COL (ng/ul)
155 Di-n-octylphthalate	149	15.274	15.274	(0.927)	9036	0.10000	0.09119
156 Benzo(b)fluoranthene	252	15.804	15.804	(0.959)	4871	0.10000	0.08406
157 Benzo(k)fluoranthene	252	15.850	15.850	(0.962)	5835	0.10000	0.09950
158 Benzo(a)pyrene	252	16.380	16.380	(0.994)	5985	0.10000	0.1225
159 Indeno(1,2,3-cd)pyrene	276	18.342	18.342	(1.113)	3377	0.10000	0.09638
160 Dibenz(a,h)anthracene	278	18.388	18.388	(1.116)	2990	0.10000	0.08696(M)
161 Benzo(g,h,i)perylene	276	18.807	18.807	(1.141)	3029	0.10000	0.08549

QC Flag Legend

M - Compound response manually integrated.

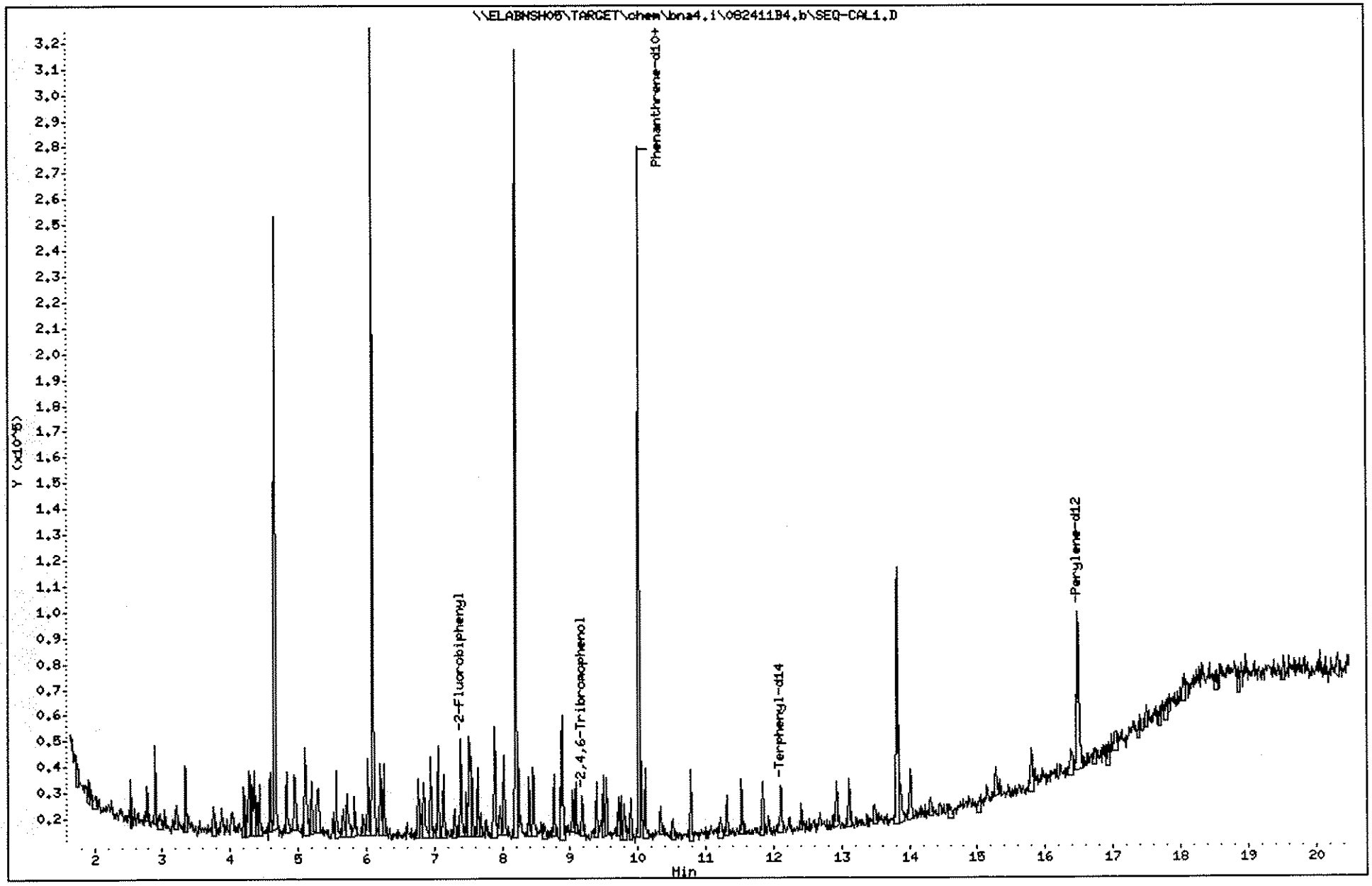
Data File: \\ELABNSHO5\TARGET\chem\bna4.i\082411B4.b\SEQ-CAL1.D
Date : 24-AUG-2011 14:35
Client ID: SEQ-CAL1
Sample Info: CAL-0.10PPM;;;;;11D0430

Instrument: bna4.i

Operator: MEC

Column phase: fused silica

Column diameter: 0.25

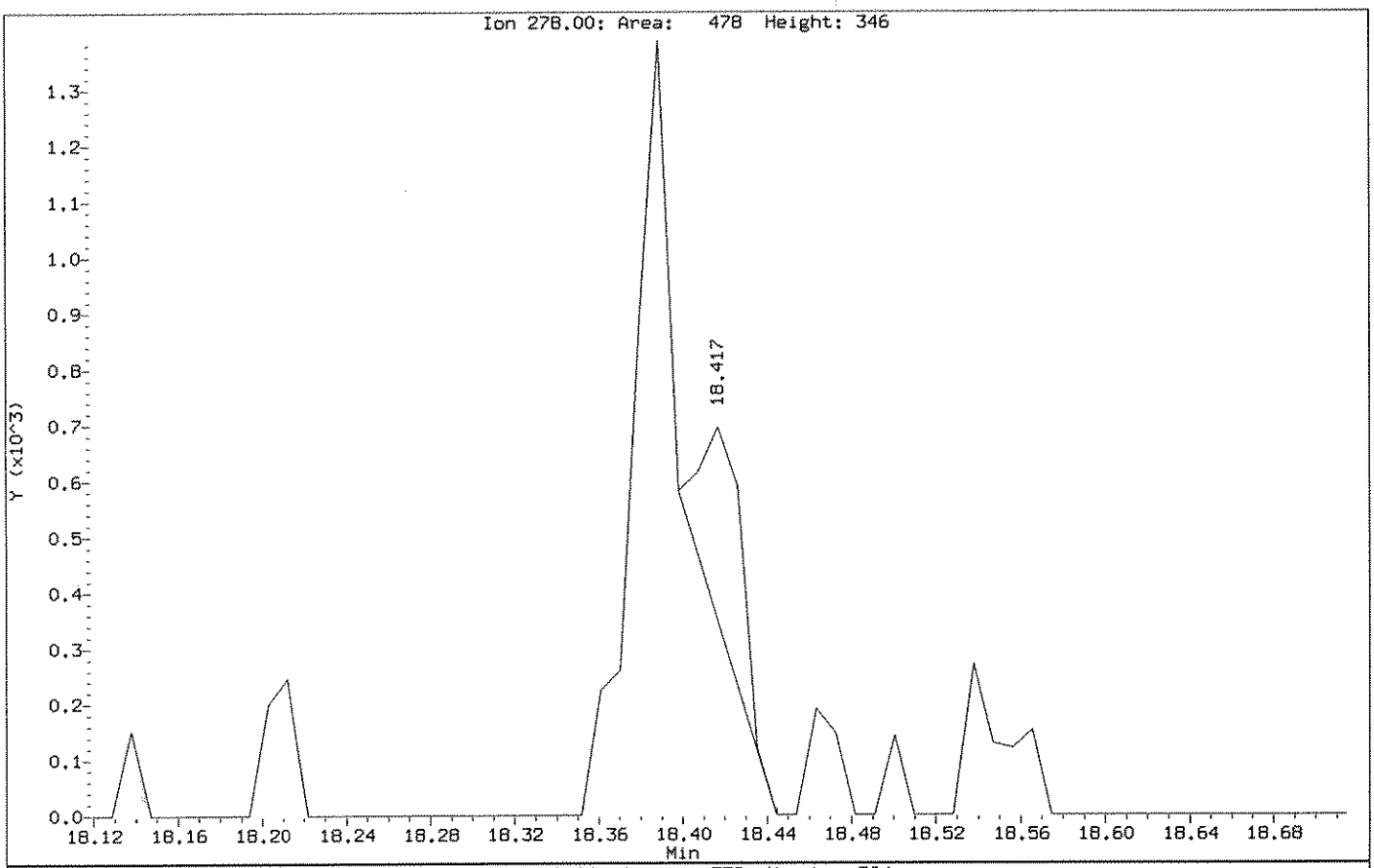


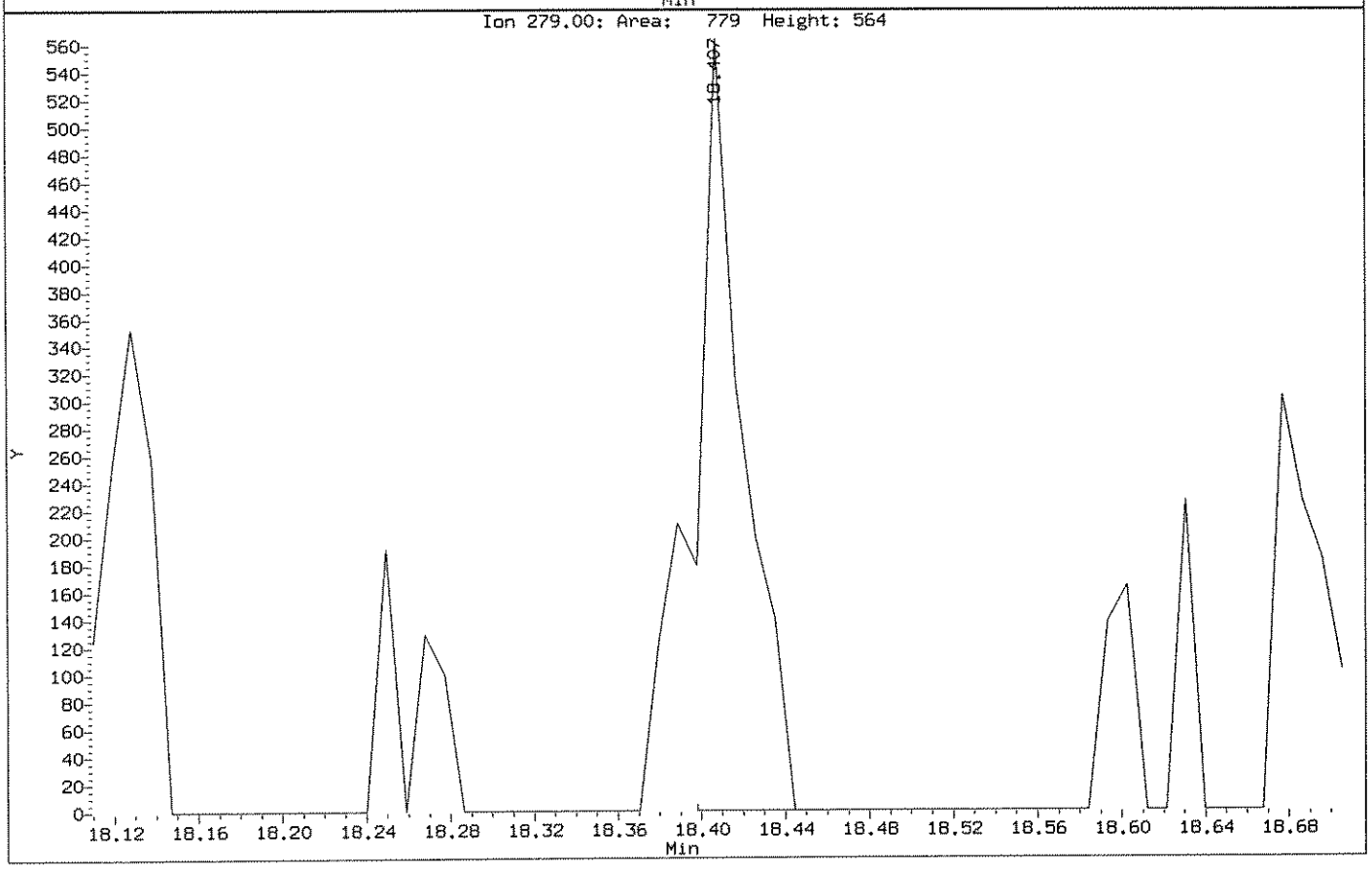
953

1109191

Data File: \\ELABNSHO5\TARGET\chem\bna4.i\082411B4.b\SEQ-CAL1.D
Injection Date: 24-AUG-2011 14:35
Instrument: bna4.i
Client Sample ID: SEQ-CAL1

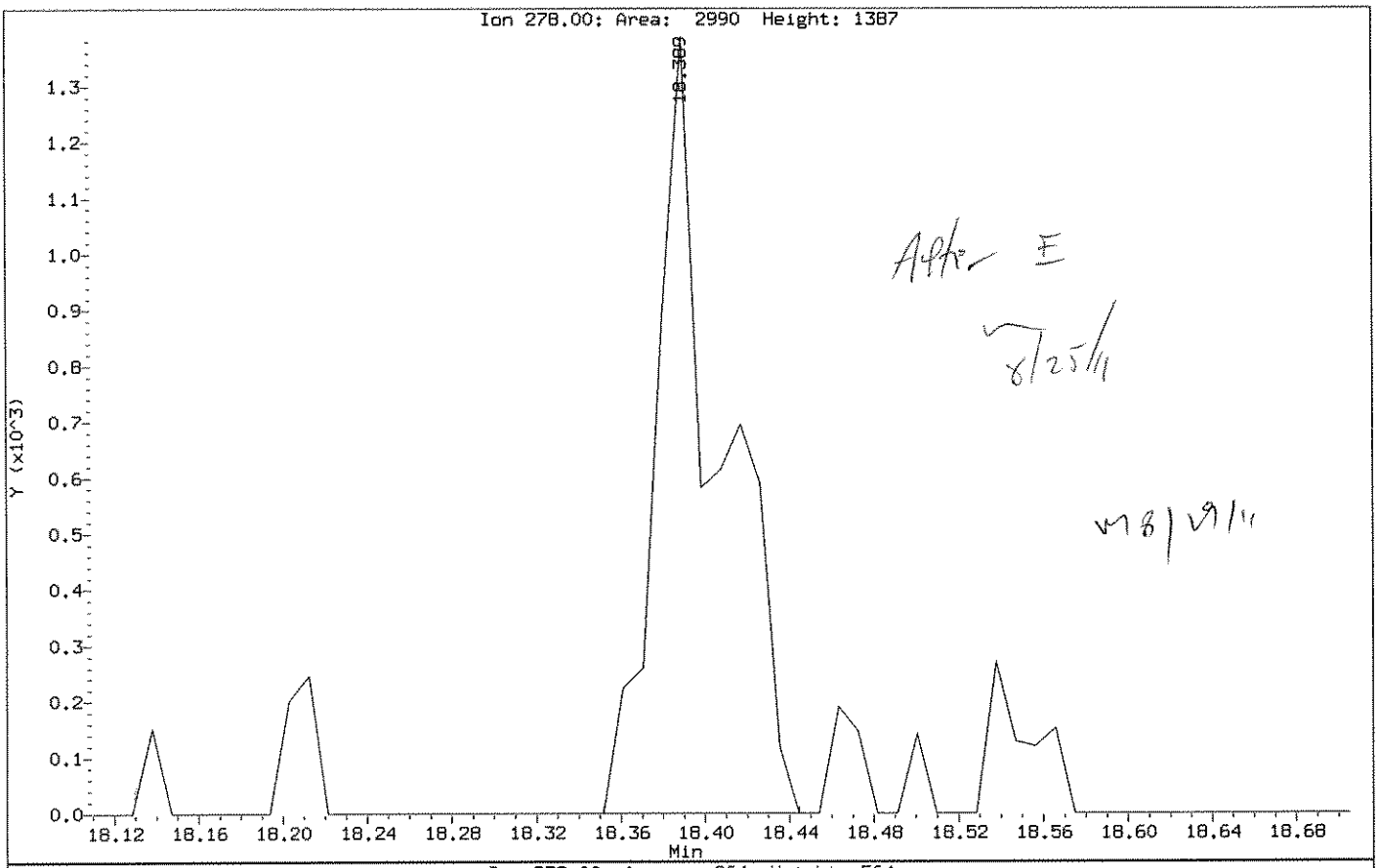
Compound: Dibenz(a,h)anthracene
CAS Number: 53-70-3

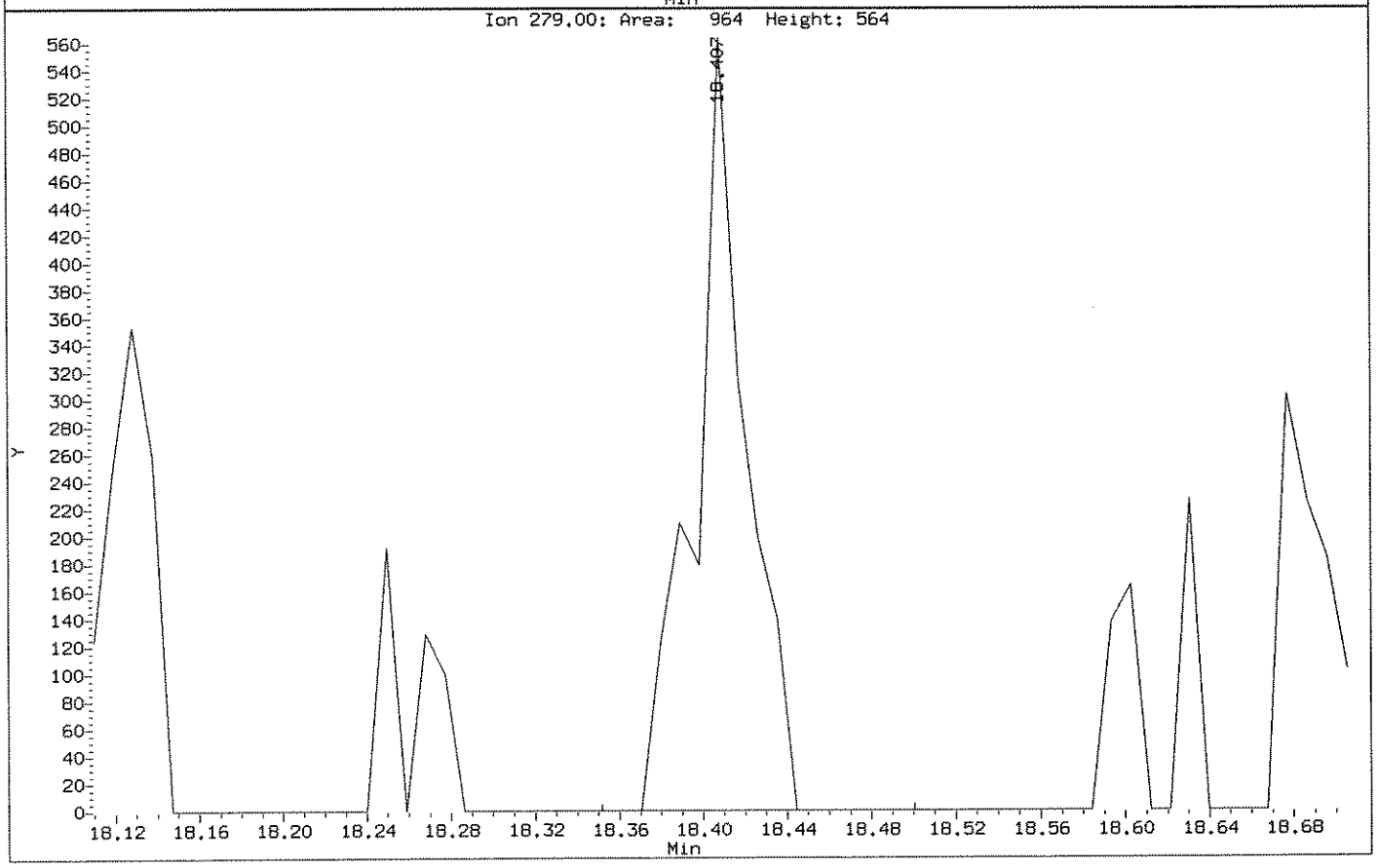




Data File: \\ELABNSHO5\TARGET\chem\bna4.i\082411B4.b\SEQ-CAL1.D
Injection Date: 24-AUG-2011 14:35
Instrument: bna4.i
Client Sample ID: SEQ-CAL1

Compound: Dibenz(a,h)anthracene
CAS Number: 53-70-3





Data File: \\ELABNSH05\TARGET\chem\bna4.i\082411B4.b\SEQ-CAL2.D
Report Date: 25-Aug-2011 13:28

Laboratory Name

Data file : \\ELABNSH05\TARGET\chem\bna4.i\082411B4.b\SEQ-CAL2.D
Lab Smp Id: SEQ-CAL2 Client Smp ID: SEQ-CAL2
Inj Date : 24-AUG-2011 15:05 MS Autotune Date: 16-JUN-2011 16:30
Operator : MEC Inst ID: bna4.i
Smp Info : CAL-0.20PPM;;;;;11C0008
Misc Info : ;1;;;2;;pahmisc.sub;
Comment :
Method : \\ELABNSH05\TARGET\chem\bna4.i\082411B4.b\IXBN4LOW.m
Meth Date : 25-Aug-2011 13:28 mcobb Quant Type: ISTD
Cal Date : 24-AUG-2011 14:35 Cal File: SEQ-CAL1.D
Als bottle: 3 Calibration Sample, Level: 2
Dil Factor: 1.00000
Integrator: HP RTE Compound Sublist: pahmisc.sub
Target Version: 4.04
Processing Host: TARGET09_VM

m 8/29/11

Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	AMOUNTS CAL-AMT (ng/ul)	AMOUNTS ON-COL (ng/ul)
* 102 Phenanthrene-d10	188	10.012	10.012	(1.000)	97574	1.00000	
4 1,4-Dioxane	88	1.906	1.906	(0.190)	6213	0.20000	0.2964
21 N-Nitroso-di-n-propylamine	70	5.095	5.095	(0.509)	6906	0.20000	0.1957
39 Isophorone	82	5.560	5.560	(0.555)	19820	0.20000	0.2074
51 Naphthalene	128	6.108	6.108	(0.610)	31278	0.20000	0.2154
53 Hexachlorobutadiene	225	6.257	6.257	(0.625)	5800	0.20000	0.2142
55 2-Methylnaphthalene	142	6.945	6.945	(0.694)	17395	0.20000	0.1999
56 1-Methylnaphthalene	142	7.056	7.056	(0.705)	17225	0.20000	0.2042
70 Hexachlorocyclopentadiene	237	7.121	7.121	(0.711)	2767	0.20000	0.4500
$ 74 2-Fluorobiphenyl	172	7.391	7.391	(0.738)	19679	0.20000	0.2134
77 Acenaphthylene	152	8.023	8.023	(0.801)	26393	0.20000	0.2088
80 Acenaphthene	153	8.237	8.237	(0.823)	17831	0.20000	0.2058
84 Dibenzofuran	168	8.451	8.451	(0.844)	19709	0.20000	0.1885
88 Fluorene	166	8.869	8.869	(0.886)	15486	0.20000	0.1874
104 Carbazole	167	10.319	10.319	(1.031)	14612	0.20000	0.1882
$ 107 2,4,6-Tribromophenol	330	9.166	9.166	(0.916)	4046	0.40000	0.2395
111 Phenanthrene	178	10.040	10.040	(1.003)	23949	0.20000	0.2109
109 Hexachlorobenzene	284	9.538	9.538	(0.953)	7851	0.20000	0.2247
112 Anthracene	178	10.105	10.105	(1.009)	22146	0.20000	0.1990
116 Fluoranthene	202	11.528	11.528	(1.151)	22331	0.20000	0.2088
134 Pyrene	202	11.835	11.835	(1.182)	19806	0.20000	0.1825
* 154 Perylene-d12	264	16.483	16.483	(1.000)	49638	1.00000	
$ 135 Terphenyl-d14	244	12.104	12.104	(1.209)	13187	0.20000	0.2131
138 Benzo(a)anthracene	228	13.805	13.805	(1.379)	13157	0.20000	0.1934
139 Chrysene	228	13.870	13.870	(1.385)	13143	0.20000	0.1919
140 Bis(2-ethylhexyl)phthalate	149	14.010	14.010	(0.850)	13925	0.20000	0.1699

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Data File: \\ELABNSH05\TARGET\chem\bna4.i\082411B4.b\SEQ-CAL2.D
Report Date: 25-Aug-2011 13:28

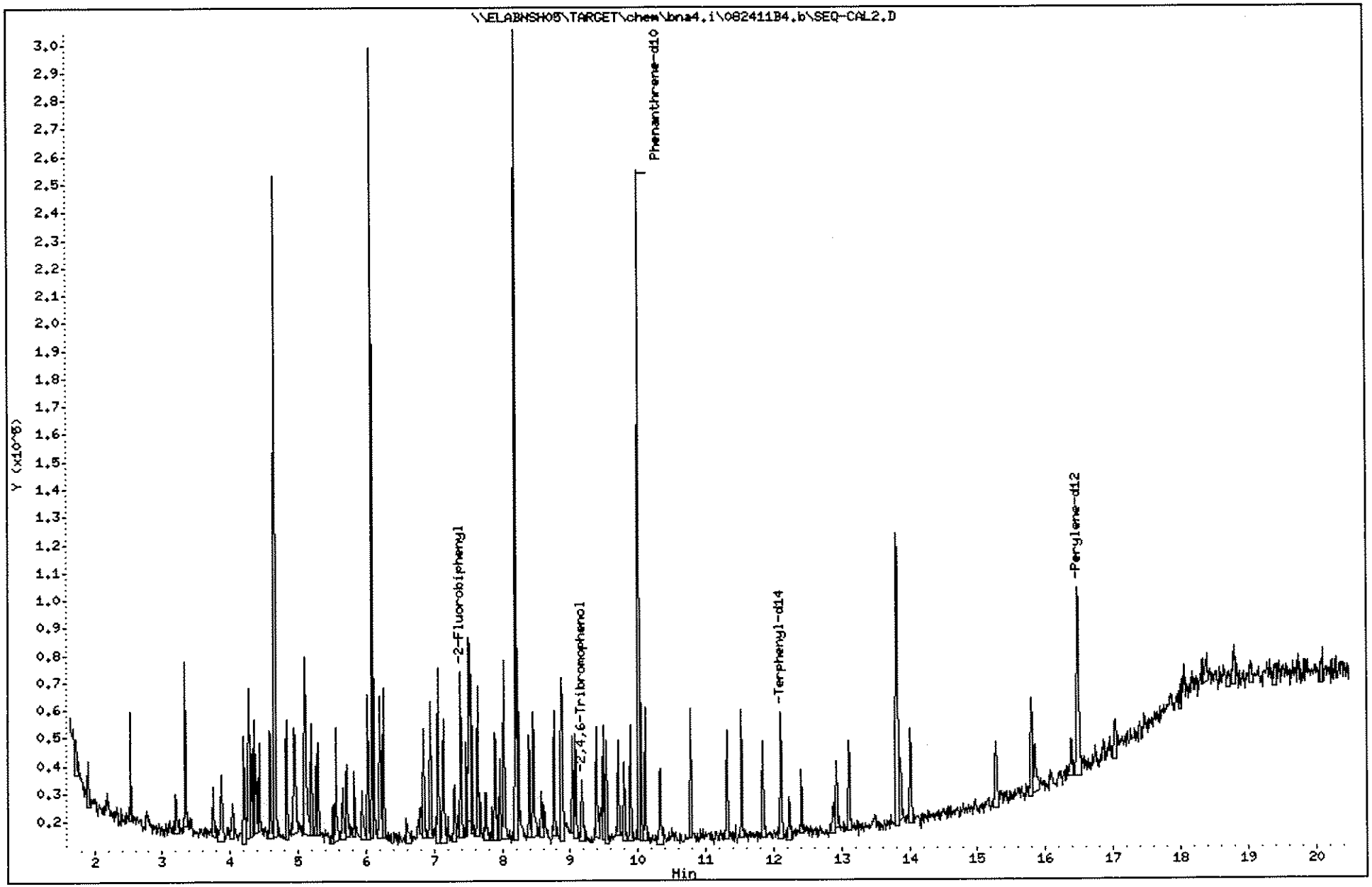
Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	AMOUNTS CAL-AMT (ng/ul)	AMOUNTS ON-COL (ng/ul)
155 Di-n-octylphthalate	149	15.274	15.274	(0.927)	18243	0.20000	0.1610
156 Benzo(b)fluoranthene	252	15.795	15.795	(0.958)	10733	0.20000	0.1620
157 Benzo(k)fluoranthene	252	15.851	15.851	(0.962)	12181	0.20000	0.1816
158 Benzo(a)pyrene	252	16.380	16.380	(0.994)	9950	0.20000	0.1781
159 Indeno(1,2,3-cd)pyrene	276	18.333	18.333	(1.112)	7463	0.20000	0.1862
160 Dibenz(a,h)anthracene	278	18.388	18.388	(1.116)	7249	0.20000	0.1844
161 Benzo(g,h,i)perylene	276	18.807	18.807	(1.141)	7577	0.20000	0.1870

Data File: \\ELABNSH05\TARGET\chem\bna4.i\082411B4.b\SEQ-CAL2.D
Date : 24-AUG-2011 15:05
Client ID: SEQ-CAL2
Sample Info: CAL-0.20PPM;;;;;11C0008

Column phase: fused silica

Instrument: bna4.i

Operator: MEC
Column diameter: 0.25



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Data File: \\ELABNSH05\TARGET\chem\bna4.i\082411B4.b\SEQ-CAL3.D
Report Date: 25-Aug-2011 13:28

Laboratory Name

Data file : \\ELABNSH05\TARGET\chem\bna4.i\082411B4.b\SEQ-CAL3.D
Lab Smp Id: SEQ-CAL3 Client Smp ID: SEQ-CAL3
Inj Date : 24-AUG-2011 15:35 MS Autotune Date: 16-JUN-2011 16:30
Operator : MEC Inst ID: bna4.i
Smp Info : CAL-0.50PPM;;;;;11C0009
Misc Info : ;1;;;3;;pahmisc.sub;
Comment :
Method : \\ELABNSH05\TARGET\chem\bna4.i\082411B4.b\IXBN4LOW.m
Meth Date : 25-Aug-2011 13:28 mcobb Quant Type: ISTD
Cal Date : 24-AUG-2011 14:35 Cal File: SEQ-CAL1.D
Als bottle: 4 Calibration Sample, Level: 3
Dil Factor: 1.00000
Integrator: HP RTE Compound Sublist: pahmisc.sub
Target Version: 4.04
Processing Host: TARGET09_VM

m 8/29/11

Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	AMOUNTS CAL-AMT (ng/ul)	AMOUNTS ON-COL (ng/ul)
* 102 Phenanthrene-d10	188	10.012	10.012	(1.000)	98140	1.00000	
4 1,4-Dioxane	88	1.906	1.906	(0.190)	13293	0.50000	0.6305
21 N-Nitroso-di-n-propylamine	70	5.095	5.095	(0.509)	19019	0.50000	0.5358
39 Isophorone	82	5.559	5.559	(0.555)	51739	0.50000	0.5384
51 Naphthalene	128	6.108	6.108	(0.610)	75139	0.50000	0.5144
53 Hexachlorobutadiene	225	6.257	6.257	(0.625)	14157	0.50000	0.5199
55 2-Methylnaphthalene	142	6.935	6.935	(0.693)	47478	0.50000	0.5425
56 1-Methylnaphthalene	142	7.056	7.056	(0.705)	46124	0.50000	0.5436
70 Hexachlorocyclopentadiene	237	7.121	7.121	(0.711)	6515	0.50000	0.5847
$ 74 2-Fluorobiphenyl	172	7.391	7.391	(0.738)	48322	0.50000	0.5211
77 Acenaphthylene	152	8.023	8.023	(0.801)	62379	0.50000	0.4907
80 Acenaphthene	153	8.237	8.237	(0.823)	45954	0.50000	0.5272
84 Dibenzofuran	168	8.451	8.451	(0.844)	52994	0.50000	0.5040
88 Fluorene	166	8.869	8.869	(0.886)	43716	0.50000	0.5259
104 Carbazole	167	10.319	10.319	(1.031)	35626	0.50000	0.4563
110 Pentachlorophenol	266	9.817	9.817	(0.981)	2160	0.50000	1.251
$ 107 2,4,6-Tribromophenol	330	9.166	9.166	(0.916)	14712	1.00000	0.8659
111 Phenanthrene	178	10.040	10.040	(1.003)	54632	0.50000	0.4784
109 Hexachlorobenzene	284	9.538	9.538	(0.953)	17278	0.50000	0.4916
112 Anthracene	178	10.105	10.105	(1.009)	54043	0.50000	0.4828
116 Fluoranthene	202	11.528	11.528	(1.151)	47143	0.50000	0.4384
134 Pyrene	202	11.834	11.834	(1.182)	47510	0.50000	0.4352
* 154 Perylene-d12	264	16.483	16.483	(1.000)	35794	1.00000	
$ 135 Terphenyl-d14	244	12.104	12.104	(1.209)	26690	0.50000	0.4288
138 Benzo(a)anthracene	228	13.805	13.805	(1.379)	28406	0.50000	0.4152
139 Chrysene	228	13.870	13.870	(1.385)	29160	0.50000	0.4233

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Data File: \\ELABNSH05\TARGET\chem\bna4.i\082411B4.b\SEQ-CAL3.D
Report Date: 25-Aug-2011 13:28

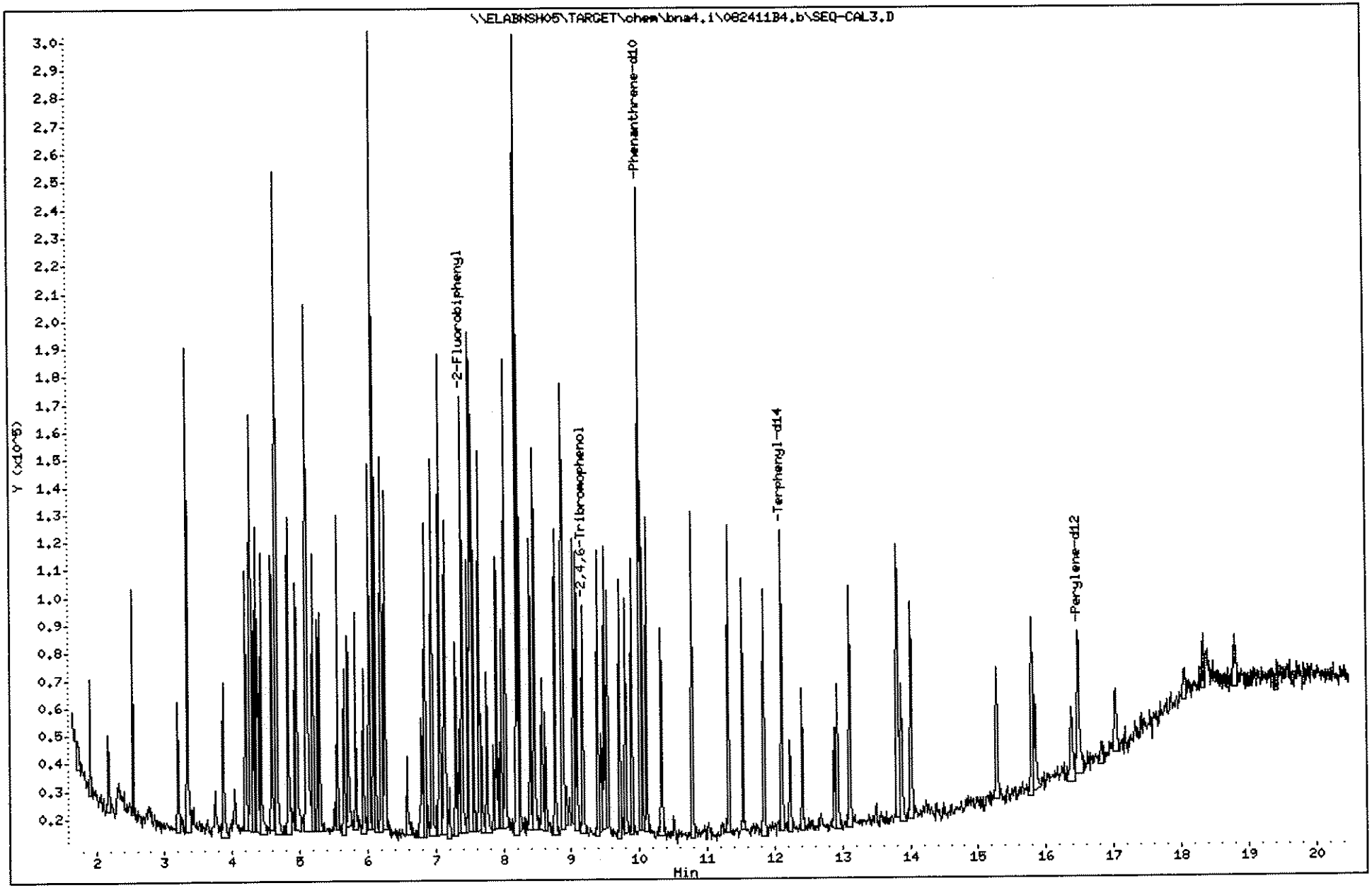
Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	AMOUNTS CAL-AMT (ng/ul)	AMOUNTS ON-COL (ng/ul)
140 Bis(2-ethylhexyl)phthalate	149	14.010	14.010	(0.850)	31255	0.50000	0.5288
155 Di-n-octylphthalate	149	15.274	15.274	(0.927)	42646	0.50000	0.5219
156 Benzo(b)fluoranthene	252	15.795	15.795	(0.958)	22163	0.50000	0.4638
157 Benzo(k)fluoranthene	252	15.841	15.841	(0.961)	23715	0.50000	0.4904
158 Benzo(a)pyrene	252	16.380	16.380	(0.994)	18192	0.50000	0.4516
159 Indeno(1,2,3-cd)pyrene	276	18.342	18.342	(1.113)	13574	0.50000	0.4697
160 Dibenz(a,h)anthracene	278	18.398	18.398	(1.116)	11119	0.50000	0.3921
161 Benzo(g,h,i)perylene	276	18.807	18.807	(1.141)	15475	0.50000	0.5296

Data File: \\ELABNSH05\TARGET\chem\bna4.i\082411B4.b\SEQ-CAL3.D
Date : 24-AUG-2011 15:35
Client ID: SEQ-CAL3
Sample Info: CAL-0.50PPM;;;;;11C0009

Column phase: fused silica

Instrument: bna4.i

Operator: HEC
Column diameter: 0.25



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Data File: \\ELABNSH05\TARGET\chem\bna4.i\082411B4.b\SEQ-CAL4.D
Report Date: 25-Aug-2011 13:28

Laboratory Name

Data file : \\ELABNSH05\TARGET\chem\bna4.i\082411B4.b\SEQ-CAL4.D
Lab Smp Id: SEQ-CAL4 Client Smp ID: SEQ-CAL4
Inj Date : 24-AUG-2011 16:05 MS Autotune Date: 16-JUN-2011 16:30
Operator : MEC Inst ID: bna4.i
Smp Info : CAL-1.00PPM;;;;;11C0010
Misc Info : ;1;;;4;;pahmisc.sub;
Comment :
Method : \\ELABNSH05\TARGET\chem\bna4.i\082411B4.b\IXBN4LOW.m
Meth Date : 25-Aug-2011 13:28 mcobb Quant Type: ISTD
Cal Date : 24-AUG-2011 14:35 Cal File: SEQ-CAL1.D
Als bottle: 5 Calibration Sample, Level: 4
Dil Factor: 1.00000
Integrator: HP RTE Compound Sublist: pahmisc.sub
Target Version: 4.04
Processing Host: TARGET09_VM

m 8/29/11

Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	AMOUNTS CAL-AMT (ng/ul)	AMOUNTS ON-COL (ng/ul)
* 102 Phenanthrene-d10	188	10.012	10.012	(1.000)	105583	1.00000	
4 1,4-Dioxane	88	1.897	1.897	(0.189)	22905	1.00000	1.010
21 N-Nitroso-di-n-propylamine	70	5.095	5.095	(0.509)	37491	1.00000	0.9817
39 Isophorone	82	5.559	5.559	(0.555)	104965	1.00000	1.015
51 Naphthalene	128	6.108	6.108	(0.610)	152293	1.00000	0.9690
53 Hexachlorobutadiene	225	6.257	6.257	(0.625)	31586	1.00000	1.078
55 2-Methylnaphthalene	142	6.935	6.935	(0.693)	91533	1.00000	0.9722
56 1-Methylnaphthalene	142	7.056	7.056	(0.705)	87296	1.00000	0.9564
70 Hexachlorocyclopentadiene	237	7.121	7.121	(0.711)	18969	1.00000	0.9862
$ 74 2-Fluorobiphenyl	172	7.391	7.391	(0.738)	98604	1.00000	0.9883
77 Acenaphthylene	152	8.023	8.023	(0.801)	136301	1.00000	0.9966
80 Acenaphthene	153	8.237	8.237	(0.823)	88585	1.00000	0.9447
84 Dibenzofuran	168	8.451	8.451	(0.844)	115672	1.00000	1.023
88 Fluorene	166	8.869	8.869	(0.886)	90423	1.00000	1.011
104 Carbazole	167	10.319	10.319	(1.031)	96074	1.00000	1.144
110 Pentachlorophenol	266	9.789	9.789	(0.978)	7807	1.00000	1.565
$ 107 2,4,6-Tribromophenol	330	9.166	9.166	(0.916)	33266	2.00000	1.820
111 Phenanthrene	178	10.040	10.040	(1.003)	124594	1.00000	1.014
109 Hexachlorobenzene	284	9.538	9.538	(0.953)	39380	1.00000	1.042
112 Anthracene	178	10.105	10.105	(1.009)	116384	1.00000	0.9665
116 Fluoranthene	202	11.528	11.528	(1.151)	121940	1.00000	1.054
134 Pyrene	202	11.834	11.834	(1.182)	120578	1.00000	1.027
* 154 Perylene-d12	264	16.483	16.483	(1.000)	58058	1.00000	
$ 135 Terphenyl-d14	244	12.104	12.104	(1.209)	64853	1.00000	0.9684
138 Benzo(a)anthracene	228	13.805	13.805	(1.379)	76875	1.00000	1.044
139 Chrysene	228	13.870	13.870	(1.385)	80132	1.00000	1.081

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Data File: \\ELABNSH05\TARGET\chem\bna4.i\082411B4.b\SEQ-CAL4.D
Report Date: 25-Aug-2011 13:28

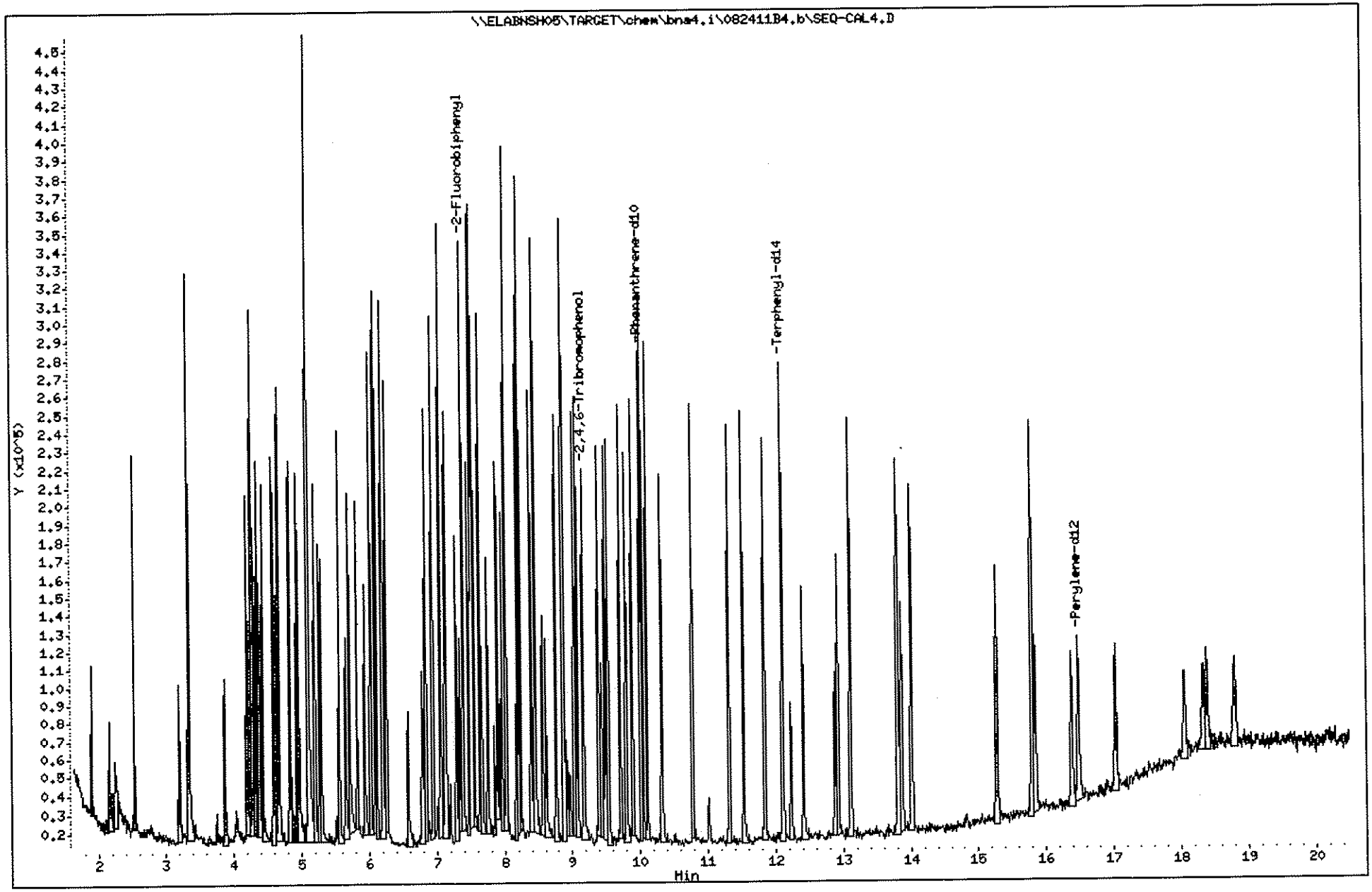
Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	AMOUNTS CAL-AMT (ng/ul)	AMOUNTS ON-COL (ng/ul)
140 Bis(2-ethylhexyl)phthalate	149	14.010	14.010	(0.850)	86632	1.00000	0.9037
155 Di-n-octylphthalate	149	15.274	15.274	(0.927)	117460	1.00000	0.8862
156 Benzo(b)fluoranthene	252	15.795	15.795	(0.958)	78235	1.00000	1.009
157 Benzo(k)fluoranthene	252	15.841	15.841	(0.961)	71789	1.00000	0.9152
158 Benzo(a)pyrene	252	16.380	16.380	(0.994)	59179	1.00000	0.9057
159 Indeno(1,2,3-cd)pyrene	276	18.323	18.323	(1.112)	42953	1.00000	0.9164
160 Dibenz(a,h)anthracene	278	18.379	18.379	(1.115)	44151	1.00000	0.9600
161 Benzo(g,h,i)perylene	276	18.797	18.797	(1.140)	46224	1.00000	0.9753

Data File: \\ELABNSH05\TARGET\chem\bna4.i\082411B4.b\SEQ-CAL4.D
Date : 24-AUG-2011 16:05
Client ID: SEQ-CAL4
Sample Info: CAL-1.00PPM;;;;;11C0010

Instrument: bna4.i

Operator: HEC
Column diameter: 0.25

Column phase: fused silica



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Data File: \\ELABNSH05\TARGET\chem\bna4.i\082411B4.b\SEQ-CAL5.D
Report Date: 25-Aug-2011 13:28

Laboratory Name

Data file : \\ELABNSH05\TARGET\chem\bna4.i\082411B4.b\SEQ-CAL5.D
Lab Smp Id: SEQ-CAL5 Client Smp ID: SEQ-CAL5
Inj Date : 24-AUG-2011 16:35 MS Autotune Date: 16-JUN-2011 16:30
Operator : MEC Inst ID: bna4.i
Smp Info : CAL-5.00PPM;;;;;11C0011
Misc Info : ;1;;;5;;pahmisc.sub;
Comment :
Method : \\ELABNSH05\TARGET\chem\bna4.i\082411B4.b\IXBN4LOW.m
Meth Date : 25-Aug-2011 13:28 mcobb Quant Type: ISTD
Cal Date : 24-AUG-2011 14:35 Cal File: SEQ-CAL1.D
Als bottle: 6 Calibration Sample, Level: 5
Dil Factor: 1.00000
Integrator: HP RTE Compound Sublist: pahmisc.sub
Target Version: 4.04
Processing Host: TARGET09_VM

m 8/29/11

Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	AMOUNTS CAL-AMT (ng/ul)	AMOUNTS ON-COL (ng/ul)
* 102 Phenanthrene-d10	188	10.012	10.012	(1.000)	99917	1.00000	
4 1,4-Dioxane	88	1.897	1.897	(0.189)	113082	5.00000	5.268
21 N-Nitroso-di-n-propylamine	70	5.095	5.095	(0.509)	193636	5.00000	5.358
39 Isophorone	82	5.559	5.559	(0.555)	529010	5.00000	5.407
51 Naphthalene	128	6.108	6.108	(0.610)	765613	5.00000	5.148
53 Hexachlorobutadiene	225	6.257	6.257	(0.625)	143563	5.00000	5.178
55 2-Methylnaphthalene	142	6.935	6.935	(0.693)	454657	5.00000	5.103
56 1-Methylnaphthalene	142	7.056	7.056	(0.705)	446269	5.00000	5.166
70 Hexachlorocyclopentadiene	237	7.121	7.121	(0.711)	120951	5.00000	4.640
$ 74 2-Fluorobiphenyl	172	7.391	7.391	(0.738)	495593	5.00000	5.249
77 Acenaphthylene	152	8.023	8.023	(0.801)	692559	5.00000	5.351
80 Acenaphthene	153	8.237	8.237	(0.823)	463081	5.00000	5.218
84 Dibenzofuran	168	8.451	8.451	(0.844)	559239	5.00000	5.224
88 Fluorene	166	8.869	8.869	(0.886)	464818	5.00000	5.492
104 Carbazole	167	10.319	10.319	(1.031)	417489	5.00000	5.252
110 Pentachlorophenol	266	9.789	9.789	(0.978)	56998	5.00000	4.560
$ 107 2,4,6-Tribromophenol	330	9.166	9.166	(0.916)	181934	10.0000	10.52
111 Phenanthrene	178	10.040	10.040	(1.003)	593919	5.00000	5.108
109 Hexachlorobenzene	284	9.538	9.538	(0.953)	178190	5.00000	4.980
112 Anthracene	178	10.105	10.105	(1.009)	593685	5.00000	5.210
116 Fluoranthene	202	11.528	11.528	(1.151)	560570	5.00000	5.120
134 Pyrene	202	11.834	11.834	(1.182)	566729	5.00000	5.099
* 154 Perylene-d12	264	16.483	16.483	(1.000)	43447	1.00000	
$ 135 Terphenyl-d14	244	12.104	12.104	(1.209)	306379	5.00000	4.835
138 Benzo(a)anthracene	228	13.805	13.805	(1.379)	329417	5.00000	4.730
139 Chrysene	228	13.870	13.870	(1.385)	329867	5.00000	4.704

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Data File: \\ELABNSH05\TARGET\chem\bna4.i\082411B4.b\SEQ-CAL5.D
Report Date: 25-Aug-2011 13:28

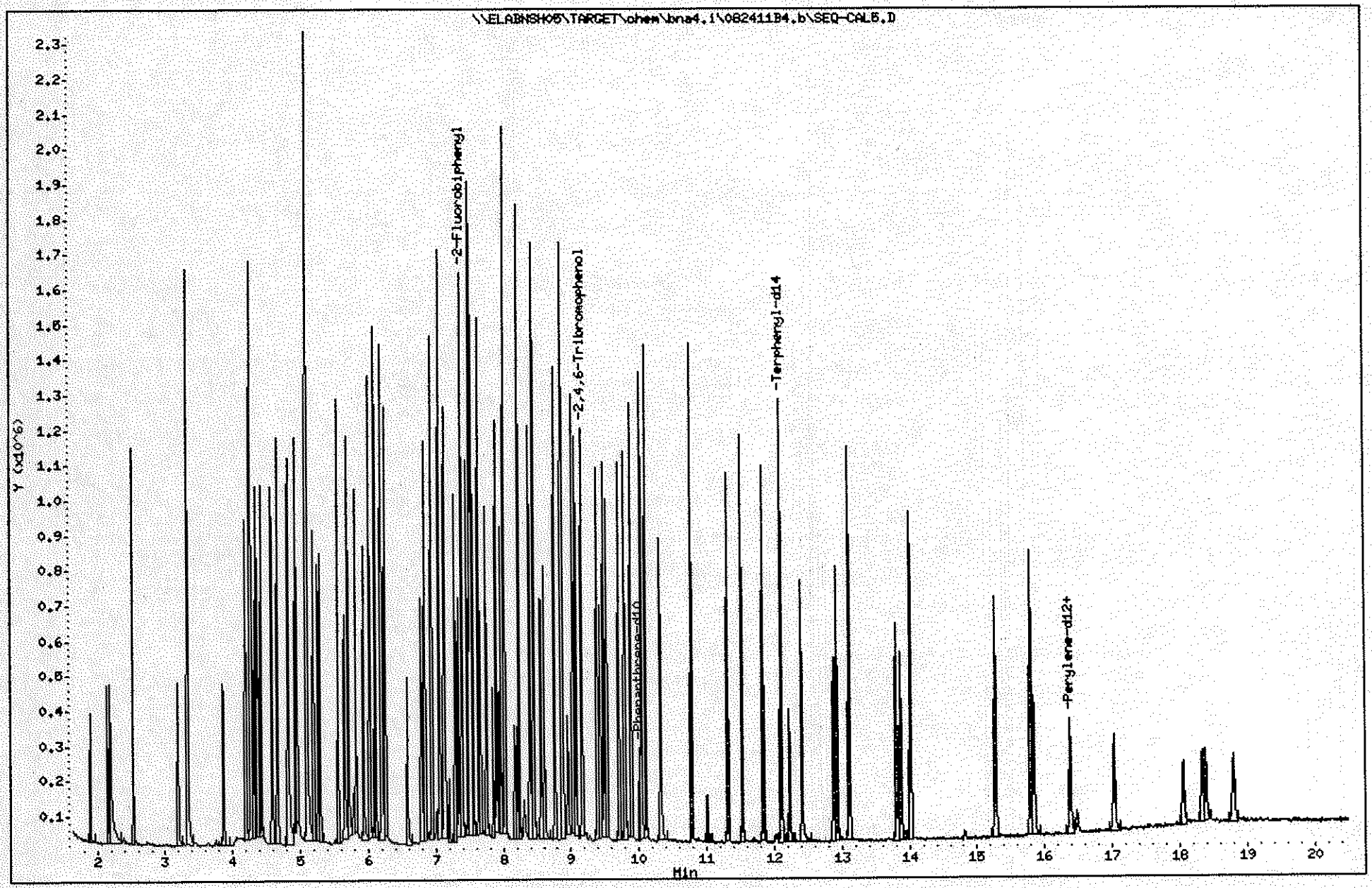
Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	AMOUNTS CAL-AMT (ng/ul)	AMOUNTS ON-COL (ng/ul)
140 Bis(2-ethylhexyl)phthalate	149	14.010	14.010	(0.850)	398523	5.00000	5.555
155 Di-n-octylphthalate	149	15.274	15.274	(0.927)	539706	5.00000	5.441
156 Benzo(b)fluoranthene	252	15.795	15.795	(0.958)	304297	5.00000	5.246
157 Benzo(k)fluoranthene	252	15.850	15.850	(0.962)	292764	5.00000	4.987
158 Benzo(a)pyrene	252	16.380	16.380	(0.994)	233649	5.00000	4.779
159 Indeno(1,2,3-cd)pyrene	276	18.333	18.333	(1.112)	168577	5.00000	4.806
160 Dibenz(a,h)anthracene	278	18.388	18.388	(1.116)	184892	5.00000	5.372
161 Benzo(g,h,i)perylene	276	18.797	18.797	(1.140)	177755	5.00000	5.012

Data File: \\ELABNSHO5\TARGET\chem\bna4.i\082411B4.b\SEQ-CAL5.D
Date : 24-AUG-2011 16:35
Client ID: SEQ-CAL5
Sample Info: CAL-5.00PPM;;;;;11C0011

Column phase: fused silica

Instrument: bna4.i

Operator: HEC
Column diameter: 0.25



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Data File: \\ELABNSH05\TARGET\chem\bna4.i\082411B4.b\SEQ-CAL6.D
Report Date: 25-Aug-2011 13:28

Laboratory Name

Data file : \\ELABNSH05\TARGET\chem\bna4.i\082411B4.b\SEQ-CAL6.D
Lab Smp Id: SEQ-CAL6 Client Smp ID: SEQ-CAL6
Inj Date : 24-AUG-2011 17:05 MS Autotune Date: 16-JUN-2011 16:30
Operator : MEC Inst ID: bna4.i
Smp Info : CAL-10.0PPM;;;;;11C0012
Misc Info : ;1;;;6;;pahmisc.sub;
Comment :
Method : \\ELABNSH05\TARGET\chem\bna4.i\082411B4.b\IXBN4LOW.m
Meth Date : 25-Aug-2011 13:28 mcobb Quant Type: ISTD
Cal Date : 24-AUG-2011 14:35 Cal File: SEQ-CAL1.D
Als bottle: 7 Calibration Sample, Level: 6
Dil Factor: 1.00000
Integrator: HP RTE Compound Sublist: pahmisc.sub
Target Version: 4.04
Processing Host: TARGET09_VM

m 8/29/11

Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	AMOUNTS CAL-AMT (ng/ul)	AMOUNTS ON-COL (ng/ul)
* 102 Phenanthrene-d10	188	10.012	10.012	(1.000)	125561	1.00000	
4 1,4-Dioxane	88	1.897	1.897	(0.189)	239957	10.0000	8.896
21 N-Nitroso-di-n-propylamine	70	5.104	5.104	(0.510)	424408	10.0000	9.345
39 Isophorone	82	5.559	5.559	(0.555)	1153122	10.0000	9.378
51 Naphthalene	128	6.117	6.117	(0.611)	1667576	10.0000	8.922
53 Hexachlorobutadiene	225	6.257	6.257	(0.625)	325030	10.0000	9.329
55 2-Methylnaphthalene	142	6.944	6.944	(0.694)	994081	10.0000	8.878
56 1-Methylnaphthalene	142	7.056	7.056	(0.705)	998049	10.0000	9.194
70 Hexachlorocyclopentadiene	237	7.121	7.121	(0.711)	311958	10.0000	9.154
$ 74 2-Fluorobiphenyl	172	7.391	7.391	(0.738)	1109816	10.0000	9.354
77 Acenaphthylene	152	8.032	8.032	(0.802)	1563141	10.0000	9.611
80 Acenaphthene	153	8.237	8.237	(0.823)	1053907	10.0000	9.451
84 Dibenzofuran	168	8.450	8.450	(0.844)	1304302	10.0000	9.696
88 Fluorene	166	8.869	8.869	(0.886)	1055803	10.0000	9.928
104 Carbazole	167	10.319	10.319	(1.031)	939209	10.0000	9.402
110 Pentachlorophenol	266	9.789	9.789	(0.978)	176553	10.0000	9.558
$ 107 2,4,6-Tribromophenol	330	9.166	9.166	(0.916)	441040	20.0000	20.29
111 Phenanthrene	178	10.049	10.049	(1.004)	1442441	10.0000	9.872
109 Hexachlorobenzene	284	9.538	9.538	(0.953)	409846	10.0000	9.115
112 Anthracene	178	10.105	10.105	(1.009)	1442092	10.0000	10.07
116 Fluoranthene	202	11.528	11.528	(1.151)	1461759	10.0000	10.62
134 Pyrene	202	11.834	11.834	(1.182)	1453421	10.0000	10.40
* 154 Perylene-d12	264	16.483	16.483	(1.000)	67079	1.00000	
$ 135 Terphenyl-d14	244	12.104	12.104	(1.209)	859371	10.0000	10.79
138 Benzo(a)anthracene	228	13.805	13.805	(1.379)	1002973	10.0000	11.46
139 Chrysene	228	13.870	13.870	(1.385)	1014775	10.0000	11.51

8/25/11

Data File: \\ELABNSH05\TARGET\chem\bna4.i\082411B4.b\SEQ-CAL6.D
Report Date: 25-Aug-2011 13:28

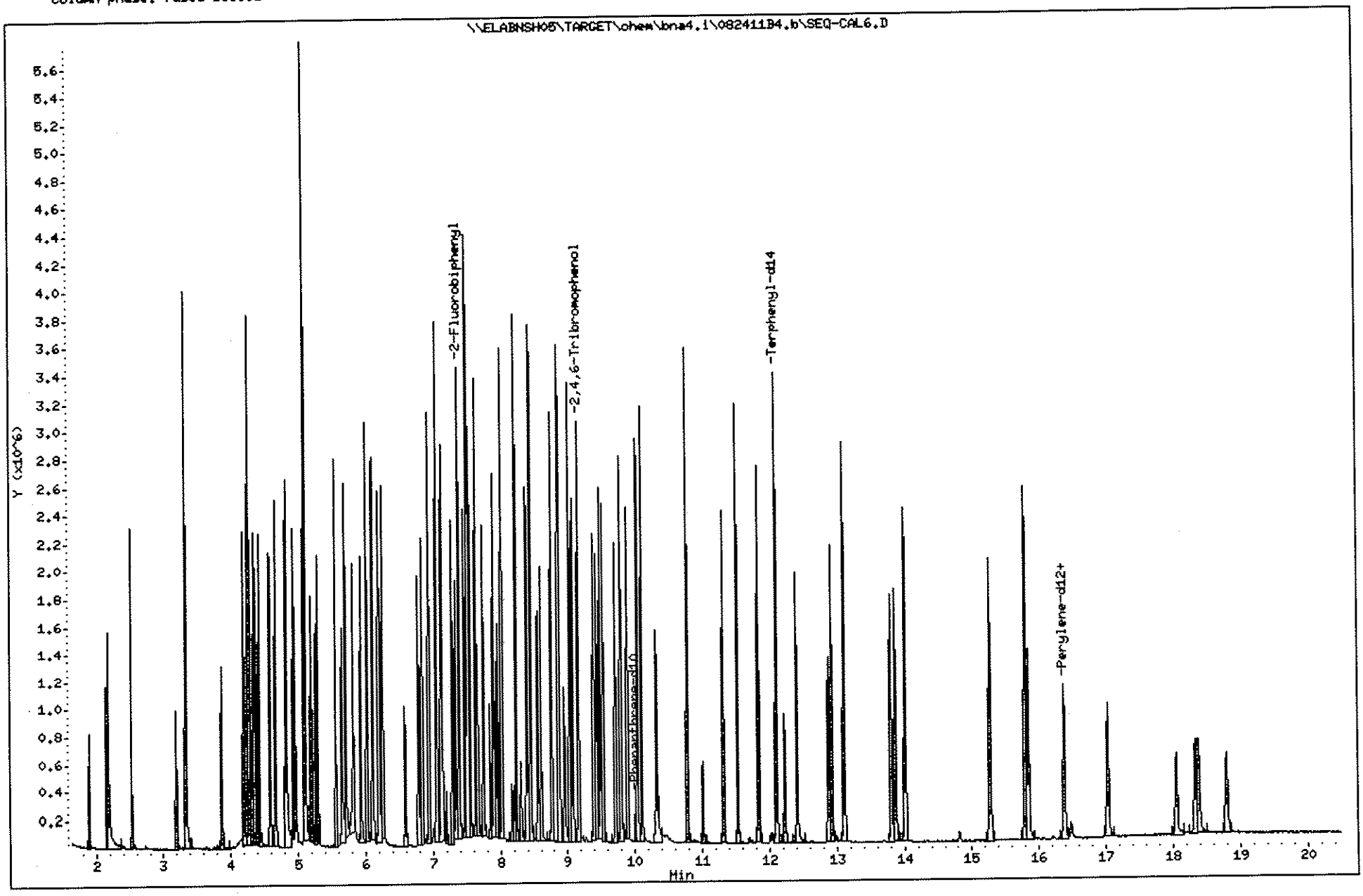
Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	AMOUNTS CAL-AMT (ng/ul)	AMOUNTS ON-COL (ng/ul)
140 Bis(2-ethylhexyl)phthalate	149	14.010	14.010	(0.850)	1058807	10.0000	9.560
155 Di-n-octylphthalate	149	15.274	15.274	(0.927)	1599823	10.0000	10.45
156 Benzo(b)fluoranthene	252	15.795	15.795	(0.958)	964307	10.0000	10.77
157 Benzo(k)fluoranthene	252	15.850	15.850	(0.962)	970208	10.0000	10.70
158 Benzo(a)pyrene	252	16.380	16.380	(0.994)	756523	10.0000	10.02
159 Indeno(1,2,3-cd)pyrene	276	18.333	18.333	(1.112)	551031	10.0000	10.18
160 Dibenz(a,h)anthracene	278	18.388	18.388	(1.116)	548947	10.0000	10.33
161 Benzo(g,h,i)perylene	276	18.797	18.797	(1.140)	533592	10.0000	9.744

Data File: \\ELABNSH05\TARGET\chem\bna4.i\082411B4.b\SEQ-CAL6.D
Date : 24-AUG-2011 17:05
Client ID: SEQ-CAL6
Sample Info: CAL-10.0PPM;;;;;11C0012

Instrument: bna4.i

Operator: HEC
Column diameter: 0.25

Column phase: fused silica



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Data File: \\ELABNSH05\TARGET\chem\bna4.i\082411B4.b\SEQ-CAL7.D
Report Date: 25-Aug-2011 13:29

Laboratory Name

Data file : \\ELABNSH05\TARGET\chem\bna4.i\082411B4.b\SEQ-CAL7.D
Lab Smp Id: SEQ-CAL7 Client Smp ID: SEQ-CAL7
Inj Date : 24-AUG-2011 17:34 MS Autotune Date: 16-JUN-2011 16:30
Operator : MEC Inst ID: bna4.i
Smp Info : CAL-20.0PPM;;;;;11C0013
Misc Info : ;1;;;7;;pahmisc.sub;
Comment :
Method : \\ELABNSH05\TARGET\chem\bna4.i\082411B4.b\IXBN4LOW.m
Meth Date : 25-Aug-2011 13:28 mcobb Quant Type: ISTD
Cal Date : 24-AUG-2011 14:35 Cal File: SEQ-CAL1.D
Als bottle: 8 Calibration Sample, Level: 7
Dil Factor: 1.00000
Integrator: HP RTE Compound Sublist: pahmisc.sub
Target Version: 4.04
Processing Host: TARGET09_VM

MB 8/29/11

Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	AMOUNTS CAL-AMT (ng/ul)	AMOUNTS ON-COL (ng/ul)
* 102 Phenanthrene-d10	188	10.022	10.022	(1.000)	118485	1.00000	
4 1,4-Dioxane	88	1.897	1.897	(0.189)	468770	20.0000	18.42
21 N-Nitroso-di-n-propylamine	70	5.104	5.104	(0.509)	850593	20.0000	19.85
39 Isophorone	82	5.569	5.569	(0.556)	2316990	20.0000	19.97
51 Naphthalene	128	6.117	6.117	(0.610)	3328671	20.0000	18.87
53 Hexachlorobutadiene	225	6.257	6.257	(0.624)	653525	20.0000	19.88
55 2-Methylnaphthalene	142	6.945	6.945	(0.693)	2084287	20.0000	19.73
56 1-Methylnaphthalene	142	7.056	7.056	(0.704)	1988442	20.0000	19.41
70 Hexachlorocyclopentadiene	237	7.130	7.130	(0.712)	680583	20.0000	20.71
$ 74 2-Fluorobiphenyl	172	7.400	7.400	(0.738)	2210113	20.0000	19.74
77 Acenaphthylene	152	8.032	8.032	(0.801)	3074763	20.0000	20.03
80 Acenaphthene	153	8.246	8.246	(0.823)	2081751	20.0000	19.78
84 Dibenzofuran	168	8.460	8.460	(0.844)	2559577	20.0000	20.16
88 Fluorene	166	8.878	8.878	(0.886)	2098021	20.0000	20.91
104 Carbazole	167	10.319	10.319	(1.030)	1263107	20.0000	13.40
110 Pentachlorophenol	266	9.799	9.799	(0.978)	384306	20.0000	20.35
$ 107 2,4,6-Tribromophenol	330	9.176	9.176	(0.916)	902297	40.0000	43.99
111 Phenanthrene	178	10.050	10.050	(1.003)	2825791	20.0000	20.50
109 Hexachlorobenzene	284	9.538	9.538	(0.952)	798879	20.0000	18.83
112 Anthracene	178	10.115	10.115	(1.009)	2856371	20.0000	21.14
116 Fluoranthene	202	11.528	11.528	(1.150)	2682012	20.0000	20.66
134 Pyrene	202	11.844	11.844	(1.182)	2735218	20.0000	20.75
* 154 Perylene-d12	264	16.483	16.483	(1.000)	53744	1.00000	
$ 135 Terphenyl-d14	244	12.104	12.104	(1.208)	1633762	20.0000	21.74
138 Benzo(a)anthracene	228	13.815	13.815	(1.378)	1857787	20.0000	22.49
139 Chrysene	228	13.870	13.870	(1.384)	1773803	20.0000	21.33

8/25/11

Data File: \\ELABNSH05\TARGET\chem\bna4.i\082411B4.b\SEQ-CAL7.D
Report Date: 25-Aug-2011 13:29

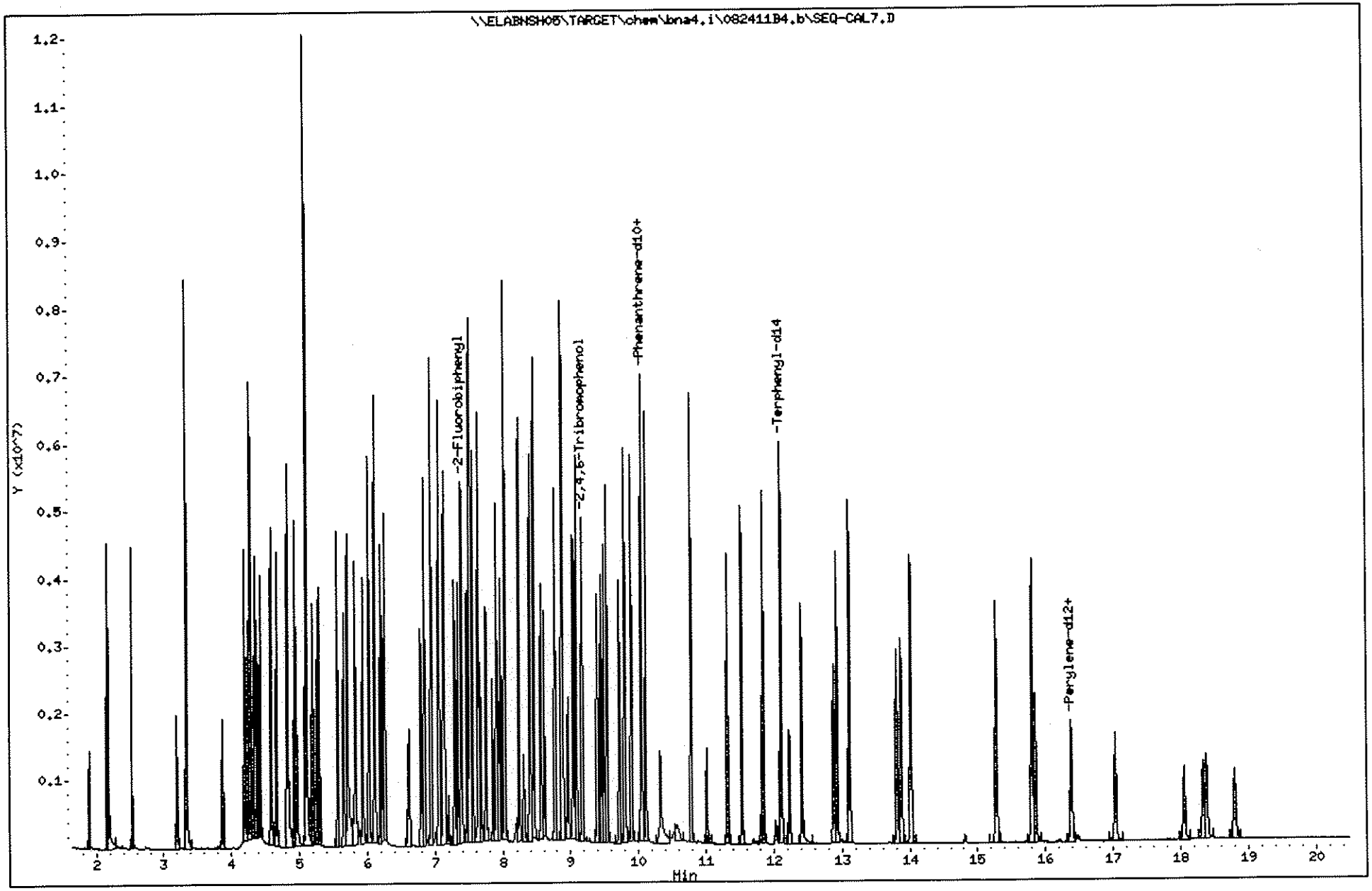
Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	AMOUNTS CAL-AMT (ng/ul)	AMOUNTS ON-COL (ng/ul)
140 Bis(2-ethylhexyl)phthalate	149	14.019	14.019	(0.851)	2014804	20.0000	22.70
155 Di-n-octylphthalate	149	15.274	15.274	(0.927)	2914264	20.0000	23.75
156 Benzo(b)fluoranthene	252	15.804	15.804	(0.959)	1693779	20.0000	23.60
157 Benzo(k)fluoranthene	252	15.860	15.860	(0.962)	1575742	20.0000	21.70
158 Benzo(a)pyrene	252	16.380	16.380	(0.994)	1295544	20.0000	21.42
159 Indeno(1,2,3-cd)pyrene	276	18.333	18.333	(1.112)	978299	20.0000	22.55
160 Dibenz(a,h)anthracene	278	18.388	18.388	(1.116)	996820	20.0000	23.41
161 Benzo(g,h,i)perylene	276	18.807	18.807	(1.141)	978024	20.0000	22.29

Data File: \\ELABNSH05\TARGET\chem\bna4.i\082411B4.b\SEQ-CAL7.D
Date : 24-AUG-2011 17:34
Client ID: SEQ-CAL7
Sample Info: CAL-20.0PPM;;;;;11C0013

Instrument: bna4.i

Operator: MEC
Column diameter: 0.25

Column phase: fused silica



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Data File: \\ELABNSH05\TARGET\chem\bna4.i\082411B4.b\SEQ-CAL9.D
Report Date: 25-Aug-2011 13:29

Laboratory Name

Data file : \\ELABNSH05\TARGET\chem\bna4.i\082411B4.b\SEQ-CAL9.D
Lab Smp Id: SEQ-CAL9 Client Smp ID: SEQ-CAL9
Inj Date : 24-AUG-2011 18:33 MS Autotune Date: 16-JUN-2011 16:30
Operator : MEC Inst ID: bna4.i
Smp Info : CAL-50.0PPM;;;;;11C0015
Misc Info : ;1;;;9;;pahmisc.sub;
Comment :
Method : \\ELABNSH05\TARGET\chem\bna4.i\082411B4.b\IXBN4LOW.m
Meth Date : 25-Aug-2011 13:29 mcobb Quant Type: ISTD
Cal Date : 24-AUG-2011 18:33 Cal File: SEQ-CAL9.D
Als bottle: 10 Calibration Sample, Level: 9
Dil Factor: 1.00000
Integrator: HP RTE Compound Sublist: pahmisc.sub
Target Version: 4.04
Processing Host: TARGET09_VM

m 8/29/11

Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	AMOUNTS CAL-AMT (ng/ul)	AMOUNTS ON-COL (ng/ul)
* 102 Phenanthrene-d10	188	10.022	10.022	(1.000)	128361	1.00000	
4 1,4-Dioxane	88	1.897	1.897	(0.189)	1192607	50.0000	43.25
21 N-Nitroso-di-n-propylamine	70	5.123	5.123	(0.511)	2145950	50.0000	46.22
39 Isophorone	82	5.578	5.578	(0.557)	5767211	50.0000	45.88
51 Naphthalene	128	6.117	6.117	(0.610)	8461512	50.0000	44.28
53 Hexachlorobutadiene	225	6.266	6.266	(0.625)	1633030	50.0000	45.85
55 2-Methylnaphthalene	142	6.954	6.954	(0.694)	5319159	50.0000	46.47
56 1-Methylnaphthalene	142	7.065	7.065	(0.705)	4984741	50.0000	44.92
70 Hexachlorocyclopentadiene	237	7.131	7.131	(0.712)	1794338	50.0000	49.89
$ 74 2-Fluorobiphenyl	172	7.400	7.400	(0.738)	5550453	50.0000	45.76
77 Acenaphthylene	152	8.042	8.042	(0.802)	7757947	50.0000	46.66
80 Acenaphthene	153	8.255	8.255	(0.824)	5428533	50.0000	47.62
84 Dibenzofuran	168	8.469	8.469	(0.845)	6653451	50.0000	48.38
88 Fluorene	166	8.878	8.878	(0.886)	5503204	50.0000	50.62(A)
104 Carbazole	167	10.328	10.328	(1.031)	1074348	50.0000	10.52
110 Pentachlorophenol	266	9.808	9.808	(0.979)	1095286	50.0000	49.96
$ 107 2,4,6-Tribromophenol	330	9.185	9.185	(0.917)	2351727	100.000	105.8(A)
111 Phenanthrene	178	10.059	10.059	(1.004)	7432064	50.0000	49.76
109 Hexachlorobenzene	284	9.548	9.548	(0.953)	2058662	50.0000	44.78
112 Anthracene	178	10.124	10.124	(1.010)	7557141	50.0000	51.62(A)
116 Fluoranthene	202	11.537	11.537	(1.151)	7347329	50.0000	52.23(A)
134 Pyrene	202	11.853	11.853	(1.183)	7309632	50.0000	51.19(A)
* 154 Perylene-d12	264	16.492	16.492	(1.000)	70348	1.00000	
$ 135 Terphenyl-d14	244	12.113	12.113	(1.209)	4320889	50.0000	53.07(A)
138 Benzo(a)anthracene	228	13.824	13.824	(1.379)	5212847	50.0000	58.26(A)
139 Chrysene	228	13.889	13.889	(1.386)	4979558	50.0000	55.27(A)

8/25/11

Data File: \\ELABNSH05\TARGET\chem\bna4.i\082411B4.b\SEQ-CAL9.D
Report Date: 25-Aug-2011 13:29

Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	AMOUNTS CAL-AMT (ng/ul)	AMOUNTS ON-COL (ng/ul)
140 Bis(2-ethylhexyl)phthalate	149	14.019	14.019	(0.850)	5303978	50.0000	45.66
155 Di-n-octylphthalate	149	15.283	15.283	(0.927)	8291174	50.0000	51.63(A)
156 Benzo(b)fluoranthene	252	15.832	15.832	(0.960)	5195929	50.0000	55.32(A)
157 Benzo(k)fluoranthene	252	15.878	15.878	(0.963)	4981079	50.0000	52.40(A)
158 Benzo(a)pyrene	252	16.399	16.399	(0.994)	4141376	50.0000	52.31(A)
159 Indeno(1,2,3-cd)pyrene	276	18.351	18.351	(1.113)	3245468	50.0000	57.15(A)
160 Dibenz(a,h)anthracene	278	18.407	18.407	(1.116)	3304809	50.0000	59.30(A)
161 Benzo(g,h,i)perylene	276	18.825	18.825	(1.141)	3113525	50.0000	54.22(A)

QC Flag Legend

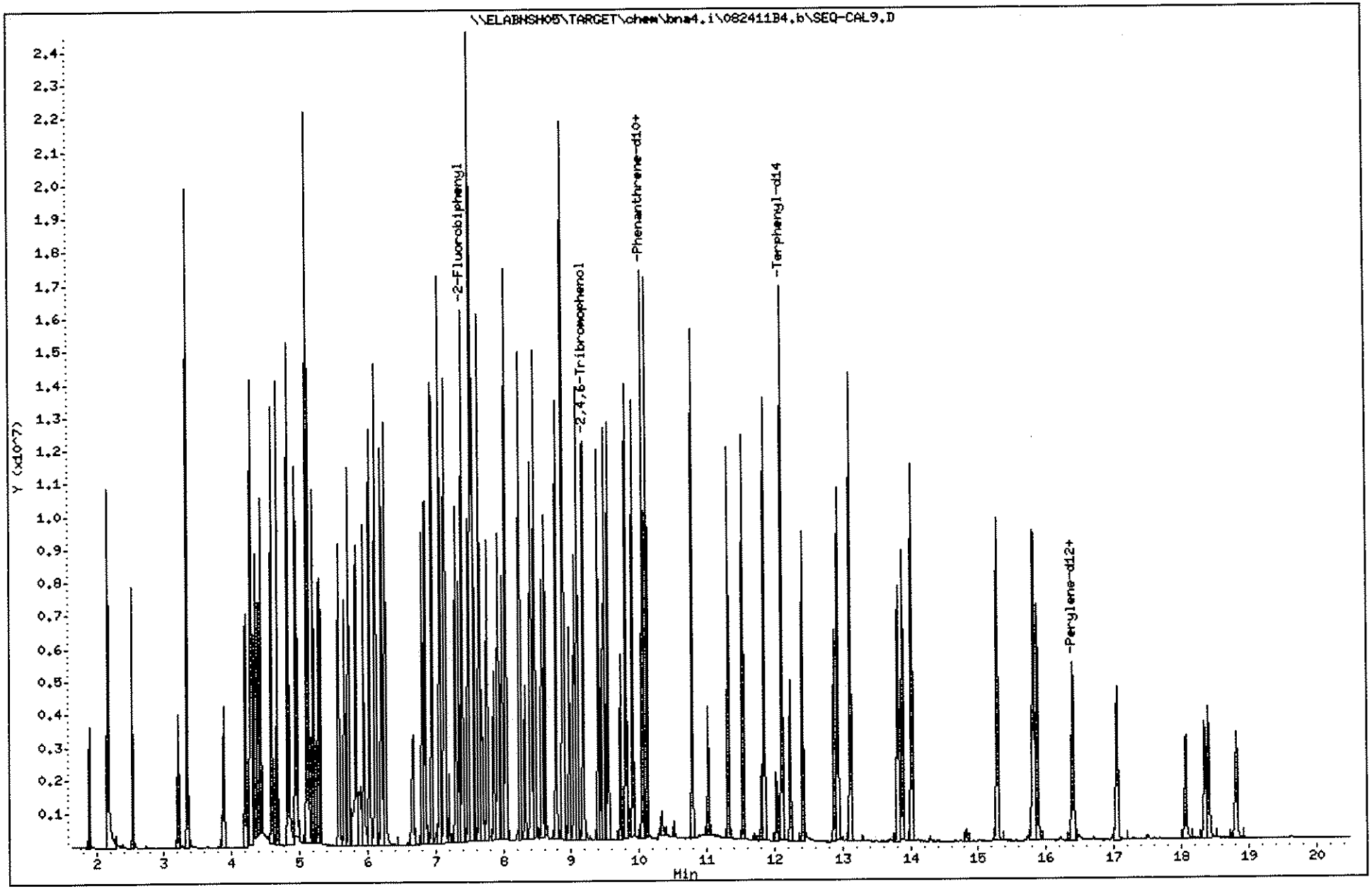
A - Target compound detected but, quantitated amount exceeded maximum amount.

Data File: \\ELABNSH05\TARGET\chem\bna4.i\082411B4.b\SEQ-CAL9.D
Date : 24-AUG-2011 18:33
Client ID: SEQ-CAL9
Sample Info: CAL-50.0PPM;;;;;11C0015

Column phase: fused silica

Instrument: bna4.i

Operator: HEC
Column diameter: 0.25



Data File: \\ELABNSH05\TARGET\chem\bna4.i\082411B4.b\SEQ-ICV1.D
Report Date: 25-Aug-2011 13:42

Laboratory Name

Data file : \\ELABNSH05\TARGET\chem\bna4.i\082411B4.b\SEQ-ICV1.D
Lab Smp Id: SEQ-ICV1 Client Smp ID: SEQ-ICV1
Inj Date : 24-AUG-2011 19:02 MS Autotune Date: 16-JUN-2011 16:30
Operator : MEC Inst ID: bna4.i
Smp Info : ICV-5.0PPM;;;;;
Misc Info : ;1;;;;;pahmisc.sub;
Comment :
Method : \\ELABNSH05\TARGET\chem\bna4.i\082411B4.b\IXBN4LOW.m
Meth Date : 25-Aug-2011 13:41 mcobb Quant Type: ISTD
Cal Date : 24-AUG-2011 18:33 Cal File: SEQ-CAL9.D
Als bottle: 11 QC Sample: ICV
Dil Factor: 1.00000
Integrator: HP RTE Compound Sublist: pahmisc.sub
Target Version: 4.04
Processing Host: TARGET09_VM

m 8/29/11

Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS ON-COLUMN (ng/ul)	FINAL (ng/ul)
* 102 Phenanthrene-d10	188	10.012	10.022	(1.000)	113055	1.00000	
4 1,4-Dioxane	88	1.897	1.897	(0.189)	103786	4.27335	4.273
21 N-Nitroso-di-n-propylamine	70	5.095	5.123	(0.509)	218009	5.33150	5.332
39 Isophorone	82	5.559	5.578	(0.555)	595518	5.37913	5.379
51 Naphthalene	128	6.108	6.117	(0.610)	957033	5.68707	5.687
53 Hexachlorobutadiene	225	6.257	6.266	(0.625)	186037	5.93043	5.930
55 2-Methylnaphthalene	142	6.935	6.954	(0.693)	510876	5.06751	5.068
56 1-Methylnaphthalene	142	7.056	7.065	(0.705)	485846	4.97085	4.971
70 Hexachlorocyclopentadiene	237	7.121	7.131	(0.711)	132522	4.50370	4.504
$ 74 2-Fluorobiphenyl	172	7.391	7.400	(0.738)	540325	5.05792	5.058
77 Acenaphthylene	152	8.023	8.042	(0.801)	816866	5.57804	5.578
80 Acenaphthene	153	8.237	8.255	(0.823)	553226	5.50990	5.510
84 Dibenzofuran	168	8.451	8.469	(0.844)	665044	5.49103	5.491
88 Fluorene	166	8.869	8.878	(0.886)	549202	5.73552	5.736
104 Carbazole	167	10.319	10.328	(1.031)	530599	5.89908	5.899
110 Pentachlorophenol	266	9.789	9.808	(0.978)	72423	4.98182	4.982
$ 107 2,4,6-Tribromophenol	330	9.166	9.185	(0.916)	216596	11.0663	11.07
111 Phenanthrene	178	10.040	10.059	(1.003)	733296	5.57400	5.574
109 Hexachlorobenzene	284	9.538	9.548	(0.953)	205796	5.08320	5.083
112 Anthracene	178	10.105	10.124	(1.009)	725464	5.62618	5.626
116 Fluoranthene	202	11.528	11.537	(1.151)	663951	5.35927	5.359
134 Pyrene	202	11.834	11.853	(1.182)	696555	5.53865	5.539
* 154 Perylene-d12	264	16.483	16.492	(1.000)	49469	1.00000	
$ 135 Terphenyl-d14	244	12.104	12.113	(1.209)	387658	5.40632	5.406
138 Benzo(a)anthracene	228	13.805	13.824	(1.379)	426949	5.41769	5.418
139 Chrysene	228	13.870	13.889	(1.385)	430417	5.42418	5.424

8/25/11

Data File: \\ELABNSH05\TARGET\chem\bna4.i\082411B4.b\SEQ-ICV1.D
Report Date: 25-Aug-2011 13:42

Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS ON-COLUMN (ng/ul)	FINAL (ng/ul)
140 Bis(2-ethylhexyl)phthalate	149	14.010	14.019	(0.850)	487320	5.96616	5.966
155 Di-n-octylphthalate	149	15.274	15.283	(0.927)	645580	5.71647	5.716
156 Benzo(b)fluoranthene	252	15.795	15.832	(0.958)	345363	5.22922	5.229
157 Benzo(k)fluoranthene	252	15.851	15.878	(0.962)	361843	5.41364	5.414
158 Benzo(a)pyrene	252	16.380	16.399	(0.994)	282753	5.07898	5.079
159 Indeno(1,2,3-cd)pyrene	276	18.333	18.351	(1.112)	200041	5.00902	5.009
160 Dibenz(a,h)anthracene	278	18.388	18.407	(1.116)	217402	5.54781	5.548
161 Benzo(g,h,i)perylene	276	18.797	18.825	(1.140)	204971	5.07561	5.076

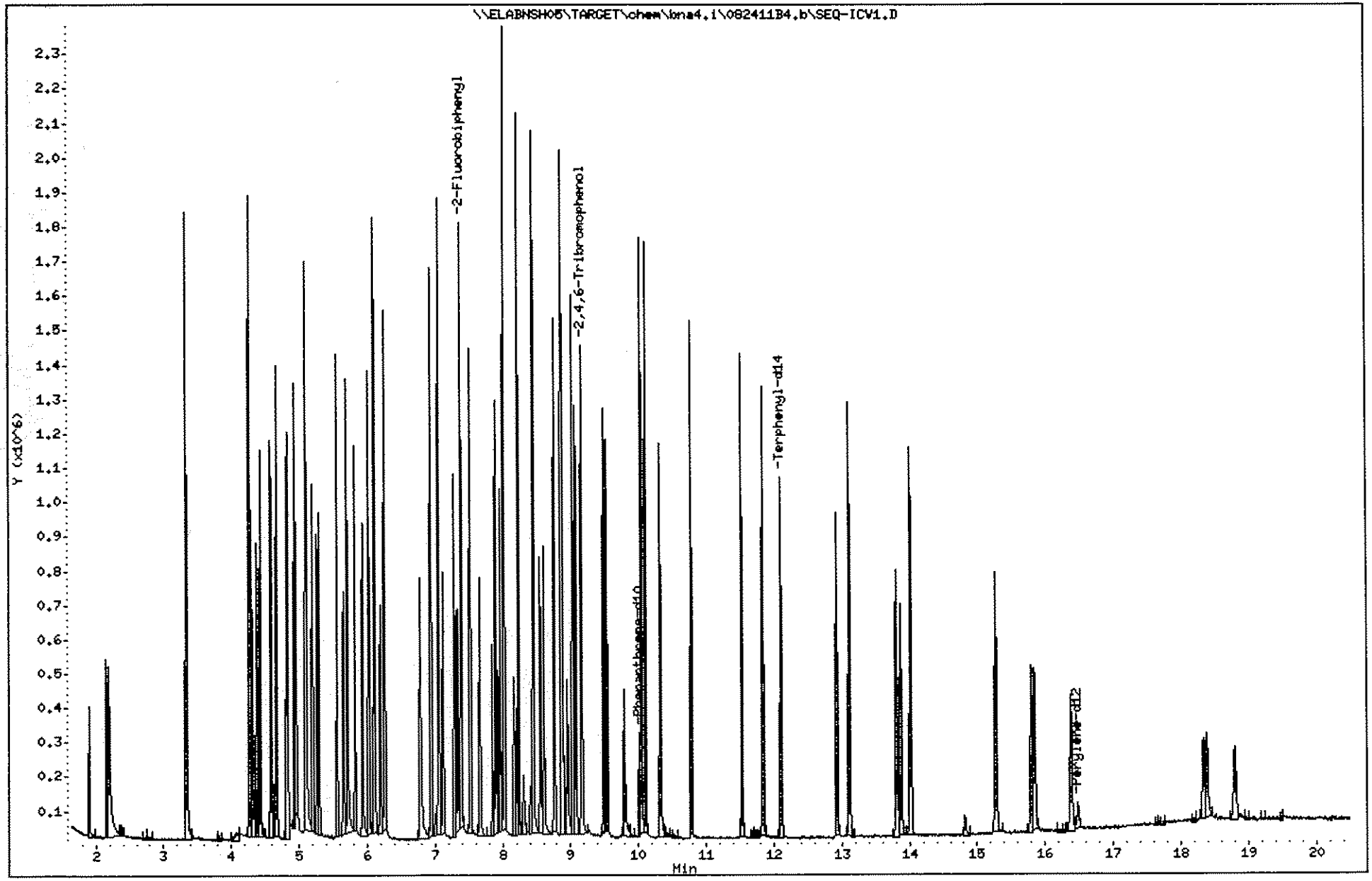
Data File: \\ELABNSHO5\TARGET\chem\bna4.i\082411B4.b\SEQ-ICV1.D
Date : 24-AUG-2011 19:02
Client ID: SEQ-ICV1
Sample Info: ICV-5.0PPM;;;;;

Instrument: bna4.i

Operator: HEC

Column phase: fused silica

Column diameter: 0.25



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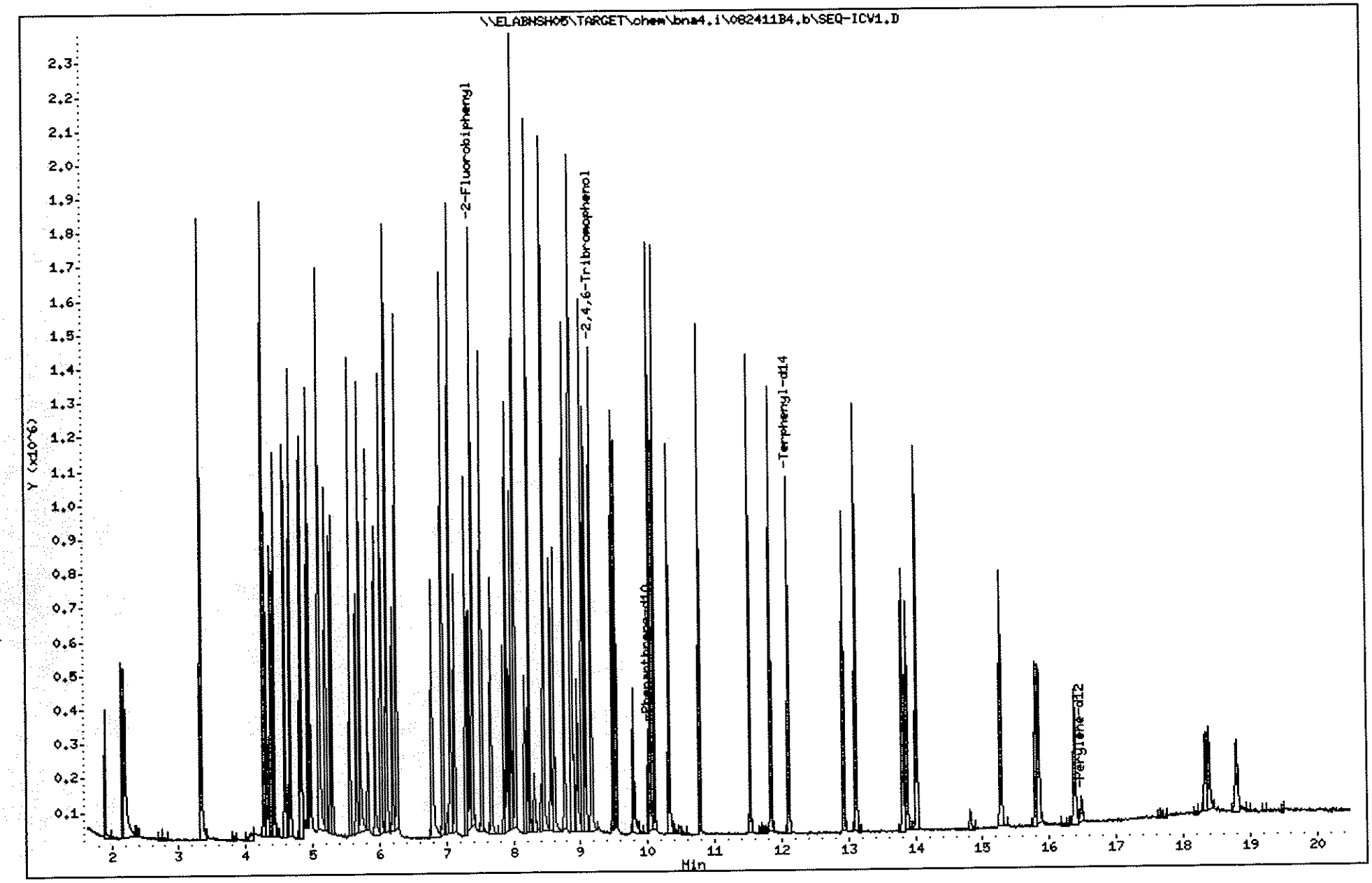
Data File: \\ELABNSH05\TARGET\chem\bna4.i\082411B4.b\SEQ-ICV1.D
Date : 24-AUG-2011 19:02
Client ID: SEQ-ICV1
Sample Info: ICV-5.0PPM;;;;;

Column phase: fused silica

Instrument: bna4.i

Operator: HEC
Column diameter: 0.25



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Comment: EPA8270
Operator: MEC
Data Path: D:\DATA\102311B4\
Instrument Control Pre-Seq Cmd:
Data Analysis Pre-Seq Cmd:

1007

Instrument Control Post-Seq Cmd:
Data Analysis Post-Seq Cmd:

10/24/11

Method Sections To Run
(X) Full Method
( ) Reprocessing Only

On A Barcode Mismatch
(X) Inject Anyway
( ) Don't Inject

Line			Sample Name/Misc Info	
1)	Sample	1	SEQ-TUN1 DFBN4LOW DF1023B1;;;;;;11J0328	19:51, 10/23
2)	Sample	2	SEQ-CCV1 IXBN4LOW CCV-5.0PPM;;;;;;11J0587	
3)	Spike	3	I22002L1 IXBN4LOW 1I22002-BS2;1;1000;1000;1;UG/	
4)	Blank	4	I22002B1 IXBN4LOW 1I22002-BLK2;1;1000;1000;1;UG	
5)	Sample	5	0917201 IXBN4LOW 1109172-01;1;1000;1000;1;UG/L	
6)	Sample	6	0917303 IXBN4LOW 1109173-03;1;1000;1000;1;UG/L	
7)	Sample	7	0917304 IXBN4LOW 1109173-04;1;1000;1000;1;UG/L	
8)	Sample	8	0917305 IXBN4LOW 1109173-05;1;1000;1000;1;UG/L	
9)	Spike	9	0917305M IXBN4LOW 1I22002-MS2;1;1000;1000;1;UG/	
10)	Duplicate	10	0917305S IXBN4LOW 1I22002-MSD2;1;1000;1000;1;UG	
11)	Spike	11	J03005L1 IXBN4LOW 1J03005-BS2;1;15;1000;1;UG/KG	
12)	Blank	12	J03005B1 IXBN4LOW 1J03005-BLK2;1;15;1000;1;UG/K	T1
13)	Sample	13	0921202 IXBN4LOW 1109212-02;1;15;1000;1;UG/KG;	
14)	Spike	14	0921202M IXBN4LOW 1J03005-MS2;1;15;1000;1;UG/KG	
15)	Duplicate	15	0921202S IXBN4LOW 1J03005-MSD2;1;15;1000;1;UG/K	
16)	Sample	16	0921203 IXBN4LOW 1109212-03;1;15;1000;1;UG/KG;	
17)	Sample	17	0919216D IXBN4LOW 1109192-16;50;15;1000;1;UG/KG	
18)	Sample	18	0919217D IXBN4LOW 1109192-17;50;15;1000;1;UG/KG	
19)	Sample	19	0919218D IXBN4LOW 1109192-18;50;15;1000;1;UG/KG	
20)	Sample	20	0919219D IXBN4LOW 1109192-19;50;15;1000;1;UG/KG	
21)	Sample	21	0919220D IXBN4LOW 1109192-20;10;15;1000;1;UG/KG	20:23, 10/23
22)	Sample	1	SEQ-TUN2 DFBN4LOW DF1023B2;;;;;;11J0328	20:58, 10/23
23)	Sample	2	SEQ-CCV2 IXBN4LOW CCV-5.0PPM;;;;;;11J0587	
24)	Spike	22	J03009L1 IXBN4LOW 1J03009-BS2;1;15;1000;1;UG/KG	
25)	Blank	23	J03009B1 IXBN4LOW 1J03009-BLK2;1;15;1000;1;UG/K	
26)	Sample	24	0919101 IXBN4LOW 1109191-01;1;15;1000;1;UG/KG;	
27)	Sample	25	0919102 IXBN4LOW 1109191-02;1;15;1000;1;UG/KG;	
28)	Spike	26	0919102M IXBN4LOW 1J03009-MS2;1;15;1000;1;UG/KG	
29)	Duplicate	27	0919102S IXBN4LOW 1J03009-MSD2;1;15;1000;1;UG/K	
30)	Sample	28	0919103 IXBN4LOW 1109191-03;1;15;1000;1;UG/KG;	
31)	Sample	29	0919105 IXBN4LOW 1109191-05;1;15;1000;1;UG/KG;	
32)	Sample	30	0919203 IXBN4LOW 1109192-03;1;15;1000;1;UG/KG;	
33)	Sample	31	0919209 IXBN4LOW 1109192-09;1;15;1000;1;UG/KG;	
34)	Sample	32	0919210 IXBN4LOW 1109192-10;1;15;1000;1;UG/KG;	T2
35)	Sample	33	0919104D IXBN4LOW 1109191-04;10;15;1000;1;UG/KG	
36)	Sample	34	0919106D IXBN4LOW 1109191-06;10;15;1000;1;UG/KG	
37)	Sample	35	0919202D IXBN4LOW 1109192-02;10;15;1000;1;UG/KG	
38)	Sample	36	0919205D IXBN4LOW 1109192-05;10;15;1000;1;UG/KG	
39)	Sample	37	0919207D IXBN4LOW 1109192-07;10;15;1000;1;UG/KG	
40)	Sample	38	0919211D IXBN4LOW 1109192-11;10;15;1000;1;UG/KG	
41)	Sample	39	0919213D IXBN4LOW 1109192-13;10;15;1000;1;UG/KG	
42)	Sample	40	0919201D IXBN4LOW 1109192-01;50;15;1000;1;UG/KG	
43)	Sample	41	0919204D IXBN4LOW 1109192-04;50;15;1000;1;UG/KG	

Last Modified: Mon Oct 24 09:56:01 2011 Page: 1

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10/24/11

	Line Type	Vial	DataFile	Method	Sample Name
44)	Sample	42	0919206D	IXBN4LOW	1109192-06;50;15;1000;1;UG/KG
45)	Sample	43	0919208D	IXBN4LOW	1109192-08;50;15;1000;1;UG/KG
46)	Sample	44	0919214D	IXBN4LOW	1109192-14;50;15;1000;1;UG/KG
47)	Sample	45	0919215D	IXBN4LOW	1109192-15;50;15;1000;1;UG/KG 8:59, 10/24
48)	Sample	1	SEQ-TUN3	DFBN4LOW	DF1023B3;;;;;;11J0328

outside 12 hour window by 1 minute.

ending tune meets ion abundance criteria

Data File: \\ELADHSHOS\TARGET\chem\bn24.i\102311B4E.D\SEQ-TUN2.D

Date : 23-OCT-2011 20:58

Client ID: 50ppm DFTPP

Instrument: bnad.i

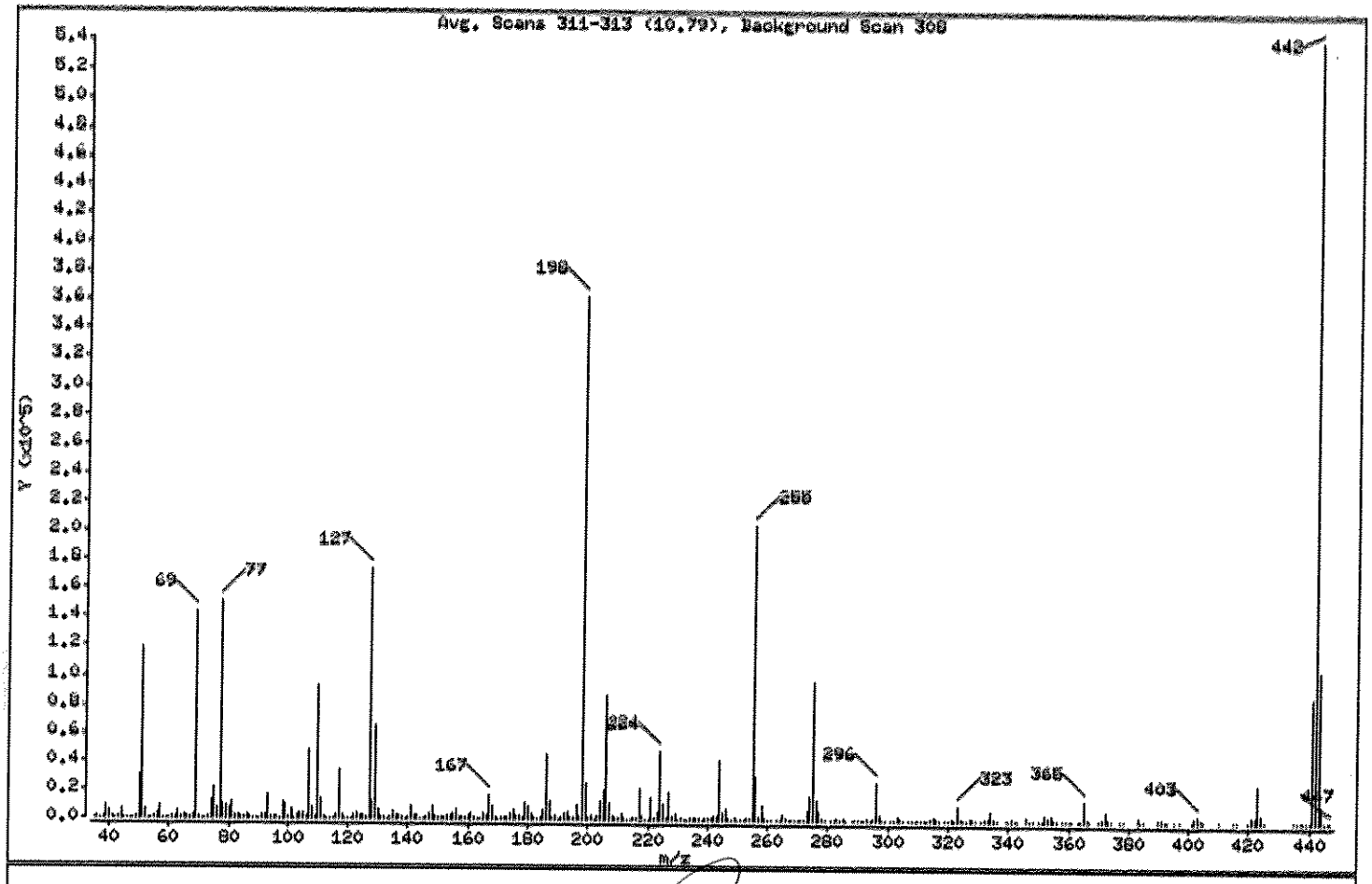
Sample Info: DF102352;;;;;;11J0320

Operator: HSO

Column phase: DB5-MS

Column diameter: 0.25

1 ulftpp



m/e	ION ABUNDANCE CRITERIA	% RELATIVE ABUNDANCE
198	Base Peak, 100% relative abundance	100.00
51	30.00 - 60.00% of mass 198	32.78
68	Less than 2.00% of mass 69	0.71 (1.80)
69	Mass 69 relative abundance	39.36
70	Less than 2.00% of mass 69	0.28 (0.72)
127	40.00 - 60.00% of mass 198	47.82
197	Less than 1.00% of mass 198	0.52
199	5.00 - 9.00% of mass 198	6.72
275	10.00 - 30.00% of mass 198	26.58
365	Greater than 1.00% of mass 198	3.68
441	Present, but less than mass 443	23.71
442	Greater than 40.00% of mass 198	149.49
443	17.00 - 23.00% of mass 442	28.79 (19.26)

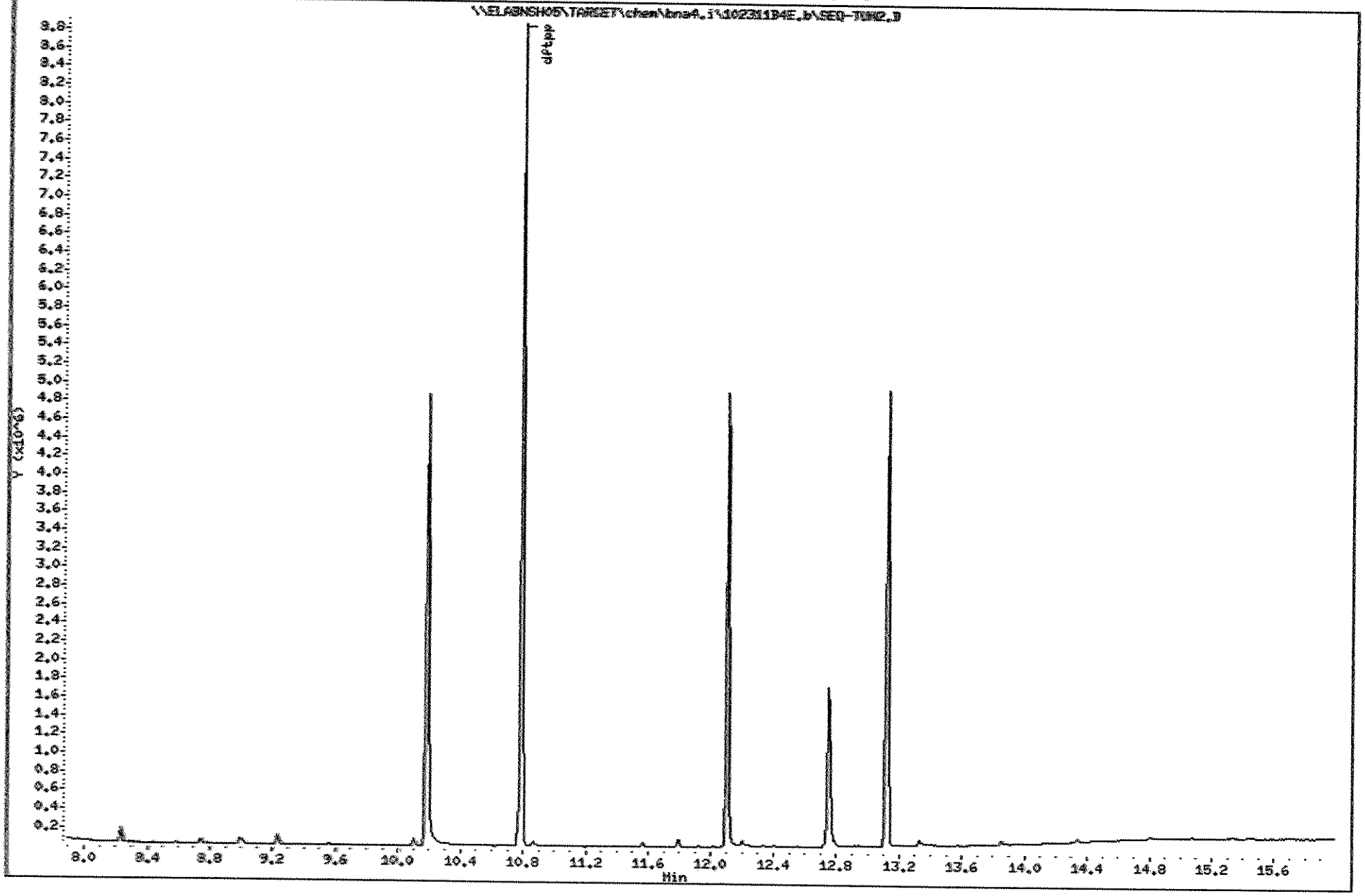
Data File: \\ELABNSHO5\TARGET\chem\bma4.i\102311B4E.b\SEQ-TUN2.D
Date : 23-OCT-2011 20:58
Client ID: 50ppm DFTPP
Sample Info: DF102282;;;;;;0010088

Instrument: bma4.i

Operator: MEC

Column phase: DB5-MS

Column diameter: 0.25



Data File: \\ELABNSH05\TARGET\chem\bna4.i\102311B4E.b\SEQ-TUN2.D

Date : 23-OCT-2011 20:58

Client ID: 50ppm DFTPP

Instrument: bna4.i

Sample Info: DF1023B2;;;;;;11J0328

Operator: HEC

Column phase: DB5-MS

Column diameter: 0.25

Data File: SEQ-TUN2.D

Spectrum: Avg. Scans 311-313 (10.79), Background Scan 308

Location of Maximum: 442.00

Number of points: 362

m/z	Y	m/z	Y	m/z	Y	m/z	Y
35.00	70	126.00	862	217.00	21192	313.00	308
36.00	830	127.00	172928	218.00	2867	314.00	1379
37.00	572	128.00	12912	219.00	297	315.00	2858
38.00	1664	129.00	64408	220.00	22	316.00	1650
39.00	9141	130.00	6028	221.00	14961	317.00	297
40.00	5405	131.00	1207	222.00	1393	319.00	50
41.00	1255	132.00	737	223.00	5188	320.00	110
42.00	393	133.00	449	224.00	47592	321.00	934
43.00	799	134.00	1632	225.00	11595	322.00	493
44.00	6278	135.00	4931	226.00	1316	323.00	9519
45.00	477	136.00	2041	227.00	18088	324.00	1723
46.00	20	137.00	3054	228.00	2675	325.00	116
47.00	105	138.00	661	229.00	4107	326.00	155
48.00	109	139.00	410	230.00	555	327.00	1617
49.00	1044	140.00	688	231.00	1852	328.00	889
50.00	30176	141.00	8098	232.00	399	329.00	142
51.00	118544	142.00	2607	233.00	365	331.00	31
52.00	5976	143.00	1999	234.00	1194	332.00	767
53.00	542	144.00	457	235.00	1355	333.00	876
54.00	256	145.00	620	236.00	877	334.00	6371
55.00	1643	146.00	1351	237.00	1548	335.00	1562
56.00	3850	147.00	3929	238.00	262	336.00	223
57.00	8917	148.00	8434	239.00	908	339.00	170
58.00	427	149.00	2036	240.00	695	340.00	135
59.00	212	150.00	627	241.00	1191	341.00	1373
60.00	257	151.00	1313	242.00	2740	342.00	294
61.00	1613	152.00	622	243.00	2886	343.00	26
62.00	1729	153.00	2386	244.00	40648	346.00	2133
63.00	4646	154.00	1900	245.00	5290	347.00	456
64.00	1683	155.00	4140	246.00	7021	348.00	37
65.00	2799	156.00	6632	247.00	1548	350.00	23
66.00	972	157.00	1547	248.00	402	351.00	190
67.00	862	158.00	1347	249.00	1389	352.00	3143
68.00	2557	159.00	1131	250.00	285	353.00	2192
69.00	142336	160.00	2550	251.00	383	354.00	3220

Data File: \\ELABNSH05\TARGET\chem\bna4.i\102311B4E.b\SEQ-TUN2.D

Date : 23-OCT-2011 20:58

Client ID: 50ppm DFTPP

Instrument: bna4.i

Sample Info: DF1023B2;;;;;;11J0328

Operator: MEC

Column phase: DB5-MS

Column diameter: 0.25

Data File: SEQ-TUN2.D

Spectrum: Avg. Scans 311-313 (10.79), Background Scan 308

Location of Maximum: 442.00

Number of points: 362

m/z	Y	m/z	Y	m/z	Y	m/z	Y
70.00	1020	161.00	3676	252.00	363	355.00	726
71.00	501	162.00	1099	253.00	887	356.00	30
72.00	62	163.00	417	254.00	1803	358.00	80
73.00	1249	164.00	525	255.00	204096	359.00	226
74.00	12903	165.00	3148	256.00	29864	360.00	25
75.00	21352	166.00	2238	257.00	2279	361.00	60
76.00	7058	167.00	15567	258.00	10448	363.00	23
77.00	150976	168.00	8920	259.00	1554	364.00	188
78.00	10457	169.00	1583	260.00	416	365.00	13303
79.00	9278	170.00	486	261.00	335	366.00	1859
80.00	7293	171.00	642	263.00	120	367.00	148
81.00	10809	172.00	1493	264.00	580	370.00	367
82.00	3029	173.00	1716	265.00	4345	371.00	1001
83.00	2939	174.00	3375	266.00	1071	372.00	5861
84.00	683	175.00	6057	267.00	77	373.00	1456
85.00	1754	176.00	1875	268.00	380	374.00	218
86.00	2686	177.00	2638	269.00	66	377.00	126
87.00	1366	178.00	967	270.00	223	378.00	23
88.00	577	179.00	11182	271.00	372	383.00	1910
89.00	377	180.00	8252	272.00	621	384.00	552
90.00	128	181.00	3911	273.00	6651	385.00	148
91.00	2676	182.00	781	274.00	16416	390.00	836
92.00	2787	183.00	541	275.00	96112	391.00	627
93.00	16416	184.00	930	276.00	13275	392.00	444
94.00	1416	185.00	5918	277.00	6775	393.00	66
95.00	738	186.00	44224	278.00	1289	395.00	64
96.00	1058	187.00	12497	279.00	202	397.00	47
97.00	585	188.00	1182	281.00	250	401.00	425
98.00	11707	189.00	2508	282.00	220	402.00	2649
99.00	10253	190.00	524	283.00	826	403.00	4119
100.00	1054	191.00	1407	284.00	578	404.00	1526
101.00	5991	192.00	3826	285.00	1353	405.00	235
102.00	392	193.00	4461	286.00	267	410.00	113
103.00	1918	194.00	909	288.00	142	415.00	252
104.00	3528	195.00	637	289.00	252	416.00	30

Data File: \\ELABNSH05\TARGET\chem\bna4.i\102311B4E.b\SEQ-TUN2.D

Date : 23-OCT-2011 20:58

Client ID: 50ppm DFTPP

Instrument: bna4.i

Sample Info: DF1023B2;;;;;;11J0328

Operator: HEC

Column phase: DB5-MS

Column diameter: 0.25

Data File: SEQ-TUN2.D

Spectrum: Avg. Scans 311-313 (10.79), Background Scan 308

Location of Maximum: 442.00

Number of points: 362

m/z	Y	m/z	Y	m/z	Y	m/z	Y
105.00	3561	196.00	10394	290.00	306	420.00	31
106.00	1308	197.00	1876	291.00	232	421.00	3790
107.00	46856	198.00	361600	292.00	319	422.00	3777
108.00	7493	199.00	24296	293.00	1814	423.00	25232
109.00	1500	200.00	1834	294.00	453	424.00	5290
110.00	92080	201.00	2315	295.00	678	425.00	511
111.00	13237	202.00	165	296.00	25816	435.00	21
112.00	1569	203.00	2173	297.00	3901	436.00	31
113.00	577	204.00	11995	298.00	314	437.00	110
114.00	197	205.00	19840	299.00	133	438.00	101
115.00	545	206.00	85232	301.00	371	439.00	406
116.00	2691	207.00	11470	302.00	485	440.00	448
117.00	33776	208.00	2697	303.00	2984	441.00	85744
118.00	2934	209.00	893	304.00	836	442.00	540544
119.00	524	210.00	1712	305.00	120	443.00	104096
120.00	569	211.00	3211	307.00	61	444.00	9963
121.00	383	212.00	625	308.00	389	445.00	551
122.00	2743	213.00	269	309.00	241	446.00	534
123.00	4328	214.00	46	310.00	413	447.00	187
124.00	2340	215.00	800	311.00	84		
125.00	1885	216.00	1649	312.00	126		

Data File: \\ELABNSH05\TARGET\chem\bna4.i\102311B4.b\SEQ-CCV2.D
Report Date: 24-Oct-2011 09:26

Laboratory Name

Data file : \\ELABNSH05\TARGET\chem\bna4.i\102311B4.b\SEQ-CCV2.D
Lab Smp Id: SEQ-CCV1 Client Smp ID: SEQ-CCV1
Inj Date : 23-OCT-2011 21:15 MS Autotune Date: 23-OCT-2011 10:06
Operator : MEC Inst ID: bna4.i
Smp Info : CCV-5.0PPM;;;;;;11J0587
Misc Info : ;;;;;;pahmisc.sub;
Comment :
Method : \\ELABNSH05\TARGET\chem\bna4.i\102311B4.b\IXBN4LOW.m
Meth Date : 24-Oct-2011 09:26 mcobb Quant Type: ISTD
Cal Date : 24-AUG-2011 18:33 Cal File: SEQ-CAL9.D
Als bottle: 2 Continuing Calibration Sample
Dil Factor: 1.00000
Integrator: HP RTE Compound Sublist: pahmisc.sub
Target Version: 4.04
Processing Host: TARGET09_VM

RBW 10-27-11

Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	AMOUNTS CAL-AMT (ng/ul)	AMOUNTS ON-COL (ng/ul)
* 102 Phenanthrene-d10	188	10.417	10.417	(1.000)	107051	1.00000	
4 1,4-Dioxane	88	2.106	2.106	(0.202)	123237	5.00000	5.359
21 N-Nitroso-di-n-propylamine	70	5.443	5.443	(0.523)	205499	5.00000	5.307
39 Isophorone	82	5.918	5.918	(0.568)	529570	5.00000	5.052
51 Naphthalene	128	6.485	6.485	(0.623)	872296	5.00000	5.474
53 Hexachlorobutadiene	225	6.624	6.624	(0.636)	173042	5.00000	5.826
55 2-Methylnaphthalene	142	7.321	7.321	(0.703)	538747	5.00000	5.644
56 1-Methylnaphthalene	142	7.433	7.433	(0.714)	524704	5.00000	5.669
70 Hexachlorocyclopentadiene	237	7.498	7.498	(0.720)	44365	5.00000	1.818
$ 74 2-Fluorobiphenyl	172	7.768	7.768	(0.746)	601050	5.00000	5.942
77 Acenaphthylene	152	8.418	8.418	(0.808)	759215	5.00000	5.475
80 Acenaphthene	153	8.632	8.632	(0.829)	501577	5.00000	5.276
84 Dibenzofuran	168	8.846	8.846	(0.849)	634310	5.00000	5.531
88 Fluorene	166	9.264	9.264	(0.889)	495519	5.00000	5.465
104 Carbazole	167	10.724	10.724	(1.029)	491228	5.00000	5.768
110 Pentachlorophenol	266	10.185	10.185	(0.978)	54116	5.00000	4.170
$ 107 2,4,6-Tribromophenol	330	9.562	9.562	(0.918)	185808	10.0000	10.02
111 Phenanthrene	178	10.454	10.454	(1.004)	626157	5.00000	5.026
109 Hexachlorobenzene	284	9.934	9.934	(0.954)	202045	5.00000	5.270
112 Anthracene	178	10.519	10.519	(1.010)	609424	5.00000	4.991
116 Fluoranthene	202	11.997	11.997	(1.152)	590281	5.00000	5.032
134 Pyrene	202	12.341	12.341	(1.185)	587438	5.00000	4.933
* 154 Perylene-d12	264	17.175	17.175	(1.000)	57357	1.00000	
$ 135 Terphenyl-d14	244	12.602	12.602	(1.210)	398252	5.00000	5.866
138 Benzo(a)anthracene	228	14.414	14.414	(1.384)	406668	5.00000	5.450
139 Chrysene	228	14.480	14.480	(1.390)	405580	5.00000	5.398

10/27/11

Data File: \\ELABNSH05\TARGET\chem\bna4.i\102311B4.b\SEQ-CCV2.D
Report Date: 24-Oct-2011 09:26

Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	AMOUNTS CAL-AMT (ng/ul)	AMOUNTS ON-COL (ng/ul)
140 Bis(2-ethylhexyl)phthalate	149	14.591	14.591	(0.850)	429169	5.00000	4.532
155 Di-n-octylphthalate	149	15.893	15.893	(0.925)	610949	5.00000	4.666
156 Benzo(b)fluoranthene	252	16.469	16.469	(0.959)	370217	5.00000	4.834
157 Benzo(k)fluoranthene	252	16.525	16.525	(0.962)	380336	5.00000	4.908
158 Benzo(a)pyrene	252	17.073	17.073	(0.994)	332215	5.00000	5.147
159 Indeno(1,2,3-cd)pyrene	276	19.165	19.165	(1.116)	285658	5.00000	6.169
160 Dibenz(a,h)anthracene	278	19.230	19.230	(1.120)	294763	5.00000	6.487
161 Benzo(g,h,i)perylene	276	19.723	19.723	(1.148)	298194	5.00000	6.368

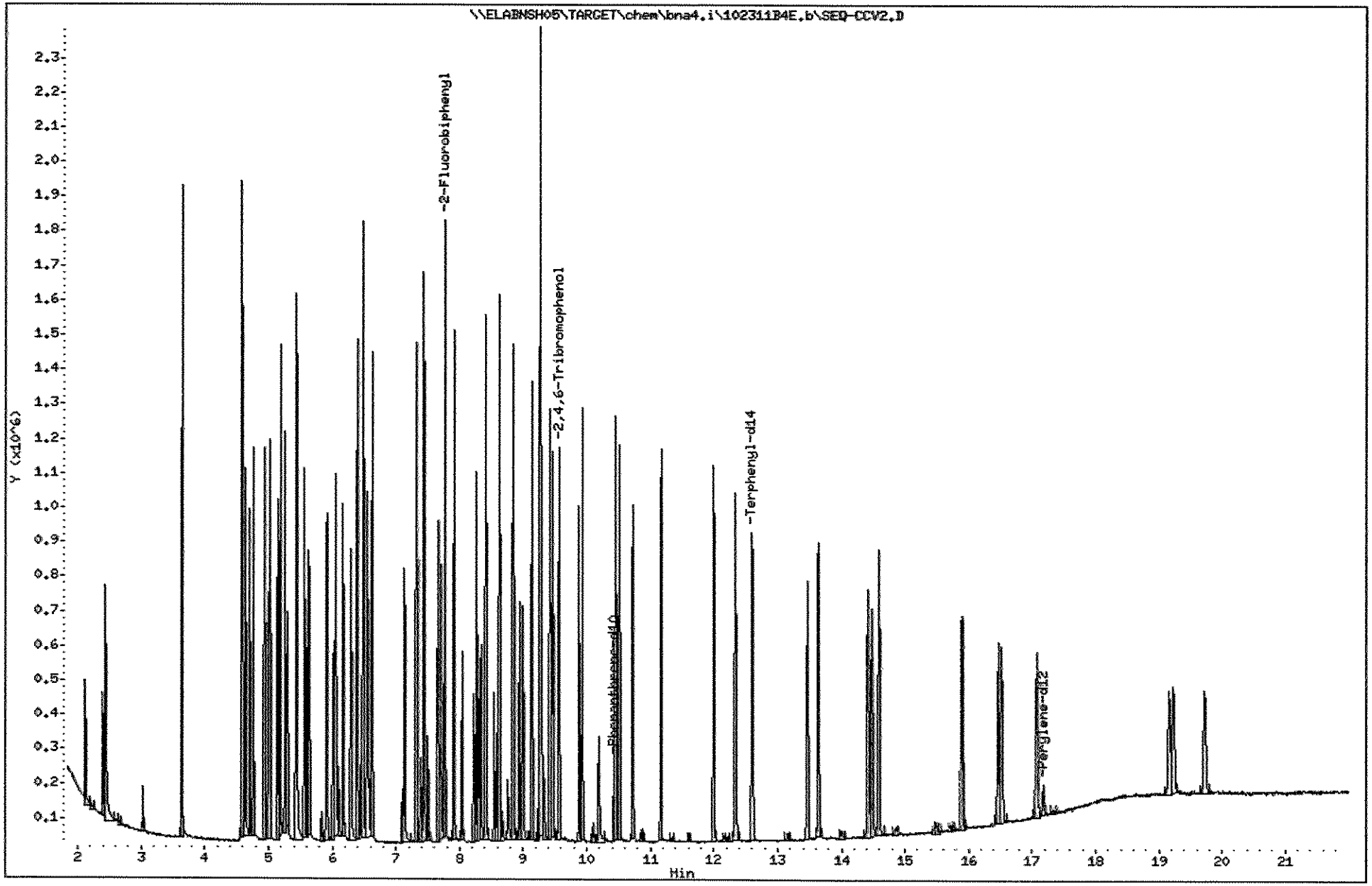
Data File: \\ELABNSH05\TARGET\chem\bna4.i\102311B4E.b\SEQ-CCV2.D
Date : 23-OCT-2011 21:15
Client ID: SEQ-CCV1
Sample Info: CCV-5.0PPM;;;;;;11J0587

Instrument: bna4.i

Operator: MEC

Column phase: fused silica

Column diameter: 0.25



Data File: \\ELABNSH05\TARGET\chem\bna4.i\102311B4E.b\J03009L1.D
Report Date: 25-Oct-2011 18:06

Laboratory Name

Data file : \\ELABNSH05\TARGET\chem\bna4.i\102311B4E.b\J03009L1.D
Lab Smp Id: 1J03009-BS2 Client Smp ID: 1J03009-BS2
Inj Date : 23-OCT-2011 21:44 MS Autotune Date: 23-OCT-2011 10:06
Operator : MEC Inst ID: bna4.i
Smp Info : 1J03009-BS2;1;15;1000;1;UG/KG;04-OCT-2011
Misc Info : ;3;LCS;;;1J03009;pahmisc.sub;
Comment :
Method : \\ELABNSH05\TARGET\chem\bna4.i\102311B4E.b\IXBN4LOW.m
Meth Date : 25-Oct-2011 18:04 mcobb Quant Type: ISTD
Cal Date : 24-AUG-2011 18:33 Cal File: SEQ-CAL9.D
Als bottle: 22 QC Sample: LCS
Dil Factor: 1.00000
Integrator: HP RTE Compound Sublist: pahmisc.sub
Target Version: 4.04
Processing Host: TARGET09_VM

Concentration Formula: Amt * DF * Uf * Vt*Vi/(Amt * Vi * (Solids/100))

Name	Value	Description
DF	1.000	Dilution Factor
Uf	1.000	ng unit correction factor
Vt	1000.000	Volume of final extract (uL)(1000 low, 2
Amt	15.000	Mass of initial extraction
Vi	1.000	Volume injected (uL)
Solids	100.000	Percent Solids

10-27-11

Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS ON-COLUMN (ng/ul)	FINAL (UG/KG)
* 102 Phenanthrene-d10	188	10.426	10.417	(1.000)	87446	1.00000	
21 N-Nitroso-di-n-propylamine	70	5.434	5.443	(0.521)	26862	0.84930	56.62
39 Isophorone	82	5.908	5.918	(0.567)	66076	0.77163	51.44
51 Naphthalene	128	6.485	6.485	(0.622)	119047	0.91460	60.97
53 Hexachlorobutadiene	225	6.624	6.624	(0.635)	25395	1.04661	69.77
55 2-Methylnaphthalene	142	7.321	7.321	(0.702)	72714	0.93250	62.17
56 1-Methylnaphthalene	142	7.433	7.433	(0.713)	65243	0.86301	57.53
70 Hexachlorocyclopentadiene	237	7.498	7.498	(0.719)	1489	0.40981	27.32
$ 74 2-Fluorobiphenyl	172	7.768	7.768	(0.745)	3807571	46.0802	3072
77 Acenaphthylene	152	8.418	8.418	(0.807)	83054	0.73323	48.88
80 Acenaphthene	153	8.632	8.632	(0.828)	62595	0.80599	53.73
84 Dibenzofuran	168	8.846	8.846	(0.848)	86398	0.92227	61.48
88 Fluorene	166	9.264	9.264	(0.889)	62745	0.84717	56.48

Data File: \\ELABNSH05\TARGET\chem\bna4.i\102311B4E.b\J03009L1.D
Report Date: 25-Oct-2011 18:06

Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS ON-COLUMN (ng/ul)	CONCENTRATIONS FINAL (UG/KG)
104 Carbazole	167	10.724	10.724	(1.029)	65991	0.94853	63.24
110 Pentachlorophenol	266	10.194	10.185	(0.978)	5184	1.47639	98.42(R)
$ 107 2,4,6-Tribromophenol	330	9.562	9.562	(0.917)	1323564	87.4269	5828
111 Phenanthrene	178	10.454	10.454	(1.003)	87071	0.85568	57.04
109 Hexachlorobenzene	284	9.934	9.934	(0.953)	27695	0.88441	58.96
112 Anthracene	178	10.519	10.519	(1.009)	80226	0.80438	53.62
116 Fluoranthene	202	11.997	11.997	(1.151)	82743	0.86348	57.56
134 Pyrene	202	12.341	12.341	(1.184)	83454	0.85792	57.19
* 154 Perylene-d12	264	17.175	17.175	(1.000)	40519	1.00000	
$ 135 Terphenyl-d14	244	12.611	12.602	(1.210)	3068348	55.3233	3688(A)
138 Benzo(a)anthracene	228	14.414	14.414	(1.382)	51489	0.84470	56.31
139 Chrysene	228	14.480	14.480	(1.389)	50920	0.82963	55.31
140 Bis(2-ethylhexyl)phthalate	149	14.591	14.591	(0.850)	62127	0.92861	61.91
155 Di-n-octylphthalate	149	15.883	15.893	(0.925)	76510	0.82712	55.14
156 Benzo(b)fluoranthene	252	16.469	16.469	(0.959)	44768	0.82757	55.17
157 Benzo(k)fluoranthene	252	16.525	16.525	(0.962)	45042	0.82274	54.85
158 Benzo(a)pyrene	252	17.073	17.073	(0.994)	37565	0.82381	54.92
159 Indeno(1,2,3-cd)pyrene	276	19.165	19.165	(1.116)	35279	1.07851	71.90
160 Dibenz(a,h)anthracene	278	19.230	19.230	(1.120)	33943	1.05751	70.50
161 Benzo(g,h,i)perylene	276	19.723	19.723	(1.148)	35957	1.08706	72.47

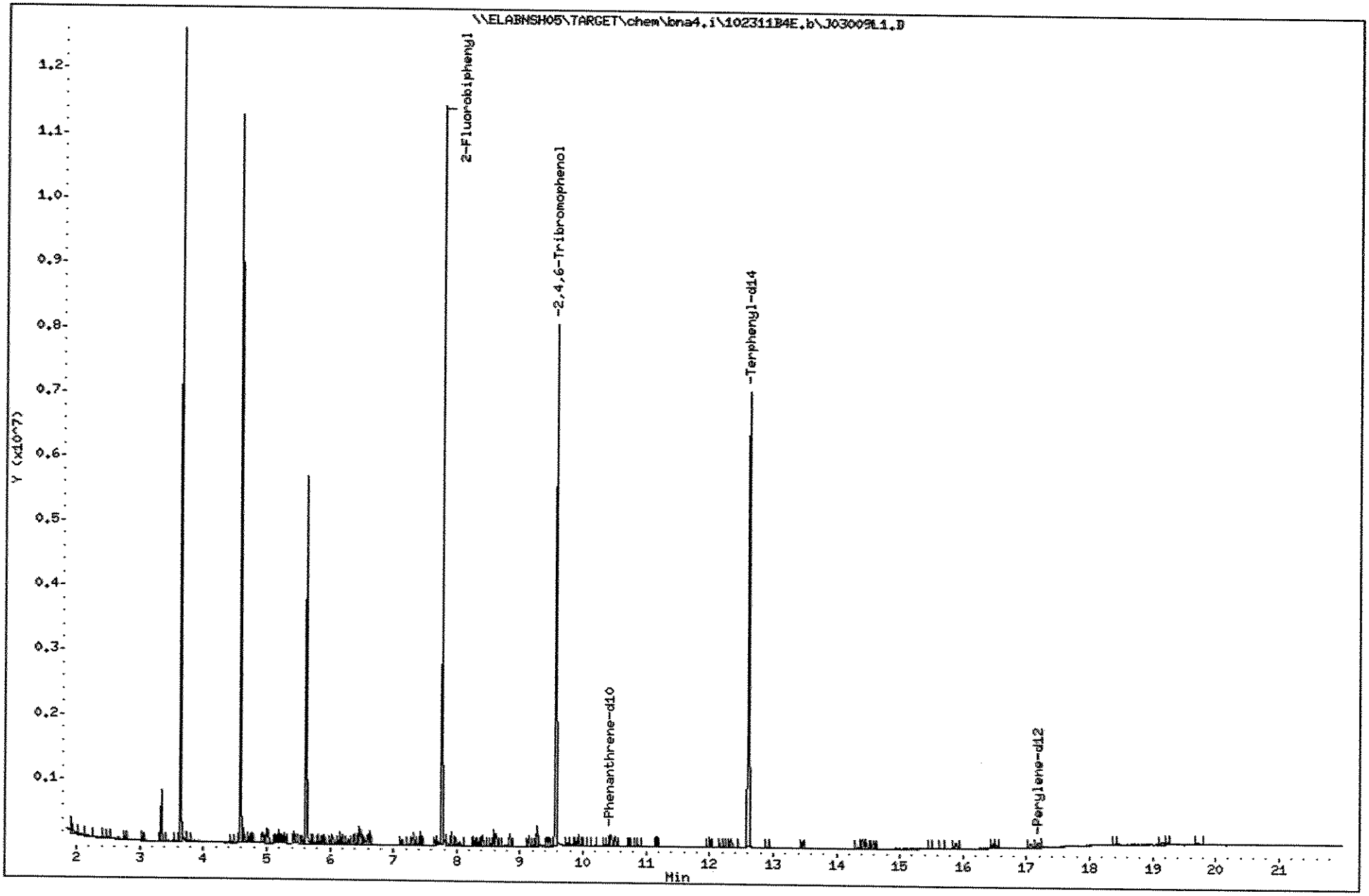
QC Flag Legend

A - Target compound detected but, quantitated amount exceeded maximum amount.
R - Spike/Surrogate failed recovery limits.

Data File: \\ELABNSH05\TARGET\chem\bna4.i\102311B4E.b\J03009L1.D
Date : 23-OCT-2011 21:44
Client ID: 1J03009-BS2
Sample Info: 1J03009-BS2;1;15;1000;1;UG/KG;04-OCT-2011
Volume Injected (uL): 1.0
Column phase: fused silica

Instrument: bna4.i

Operator: MEC
Column diameter: 0.25



Data File: \\ELABNSH05\TARGET\chem\bna4.i\102311B4E.b\J03009B1.D
Report Date: 25-Oct-2011 18:06

Laboratory Name

Data file : \\ELABNSH05\TARGET\chem\bna4.i\102311B4E.b\J03009B1.D
Lab Smp Id: 1J03009-BLK2 Client Smp ID: 1J03009-BLK2
Inj Date : 23-OCT-2011 22:13 MS Autotune Date: 23-OCT-2011 10:06
Operator : MEC Inst ID: bna4.i
Smp Info : 1J03009-BLK2;1;15;1000;1;UG/KG;04-OCT-2011
Misc Info : ;3;BLANK;;;1J03009;pahmisc.sub;
Comment :
Method : \\ELABNSH05\TARGET\chem\bna4.i\102311B4E.b\IXBN4LOW.m
Meth Date : 25-Oct-2011 18:04 mcobb Quant Type: ISTD
Cal Date : 24-AUG-2011 18:33 Cal File: SEQ-CAL9.D
Als bottle: 23 QC Sample: BLANK
Dil Factor: 1.00000
Integrator: HP RTE Compound Sublist: pahmisc.sub
Target Version: 4.04
Processing Host: TARGET09_VM

Concentration Formula: Amt * DF * Uf * Vt*Vi/(Amt * Vi * (Solids/100))

Name	Value	Description
DF	1.000	Dilution Factor
Uf	1.000	ng unit correction factor
Vt	1000.000	Volume of final extract (uL)(1000 low, 2
Amt	15.000	Mass of initial extraction
Vi	1.000	Volume injected (uL)
Solids	100.000	Percent Solids

KBN 10-27-11

Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS ON-COLUMN (ng/ul)	FINAL (UG/KG)
* 102 Phenanthrene-d10	188	10.426	10.417	(1.000)	115723	1.00000	
$ 74 2-Fluorobiphenyl	172	7.767	7.768	(0.745)	4883955	44.6641	2978
$ 107 2,4,6-Tribromophenol	330	9.562	9.562	(0.917)	1702339	84.9702	5665
* 154 Perylene-d12	264	17.175	17.175	(1.000)	41464	1.00000	
$ 135 Terphenyl-d14	244	12.611	12.602	(1.210)	3894255	53.0576	3537(A)
140 Bis(2-ethylhexyl)phthalate	149	14.591	14.591	(0.850)	1824	0.02664	1.776(a)

QC Flag Legend

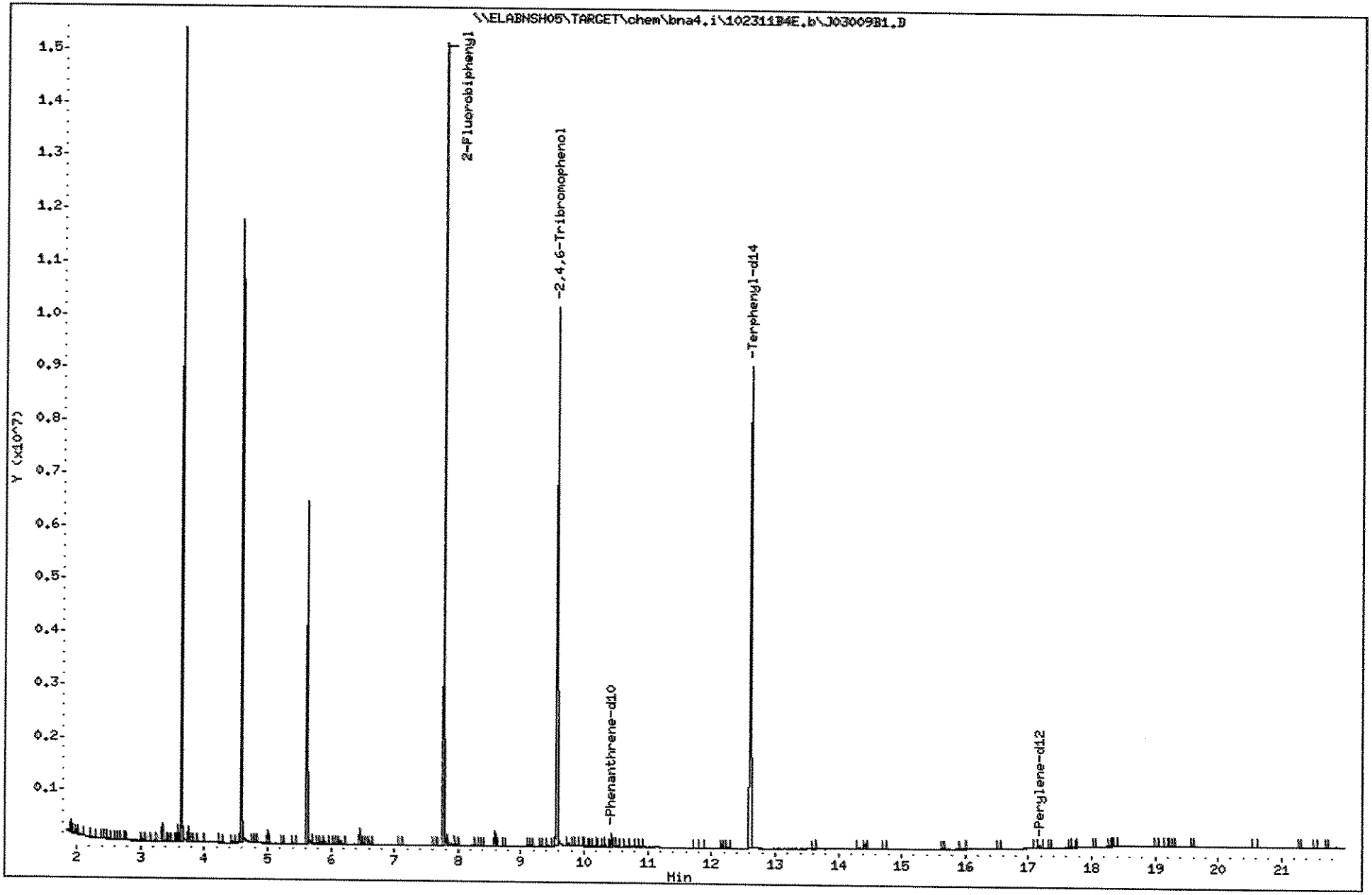
a - Target compound detected but, quantitated amount Below Limit Of Quantitation(BLOQ).
A - Target compound detected but, quantitated amount exceeded maximum amount.

10/27/11

Data File: \\ELABNSH05\TARGET\chem\bna4.i\102311B4E.b\J03009B1.D
Date : 23-OCT-2011 22:13
Client ID: 1J03009-BLK2
Sample Info: 1J03009-BLK2;1;15;1000;1;UG/KG;04-OCT-2011
Volume Injected (uL): 1.0
Column phase: fused silica

Instrument: bna4.i

Operator: MEC
Column diameter: 0.25



995

1109191

Data File: \\ELABNSH05\TARGET\chem\bna4.i\102311B4E.b\J03009B1.D

Date : 23-OCT-2011 22:13

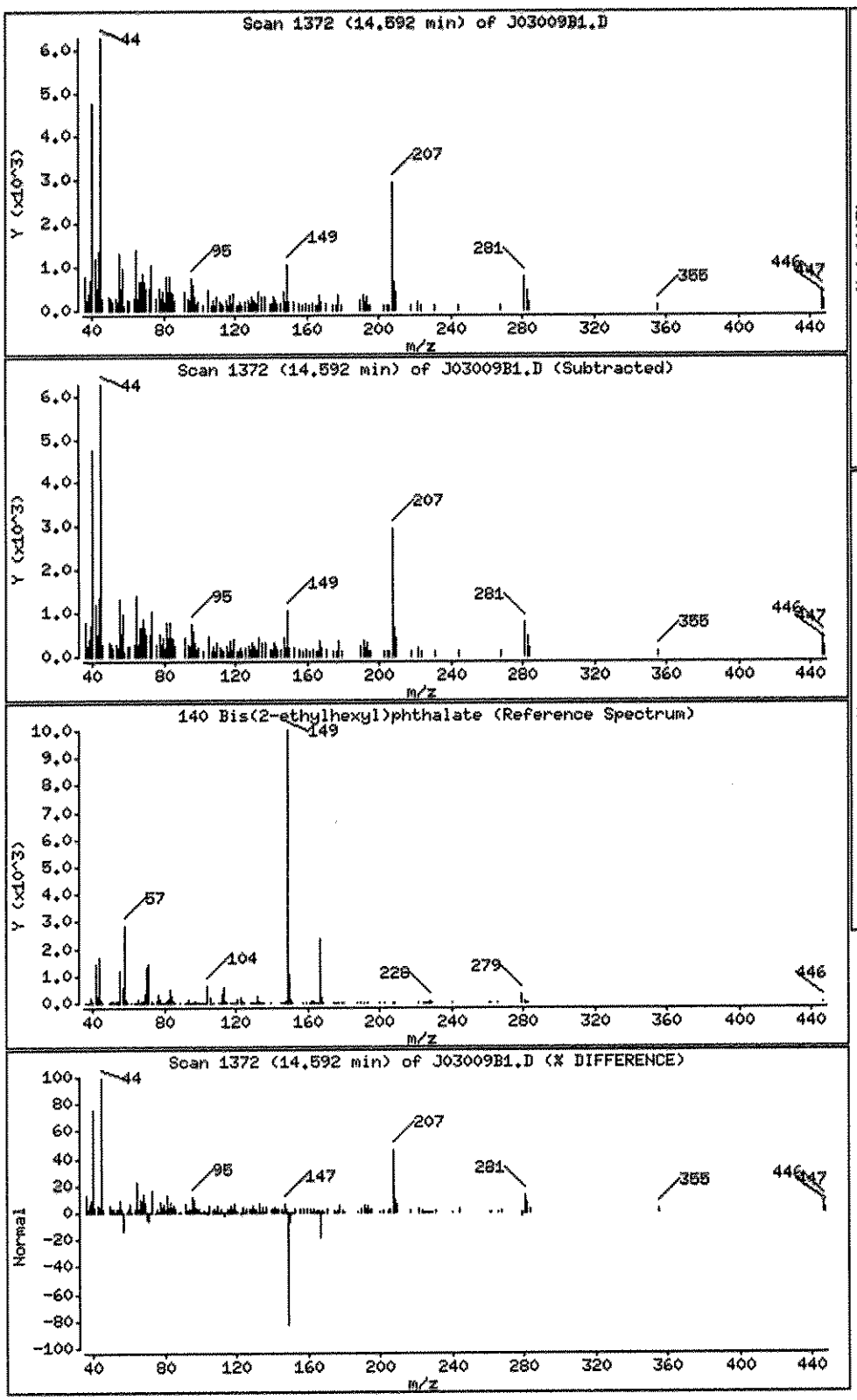
Client ID: 1J03009-BLK2 Instrument: bna4.i

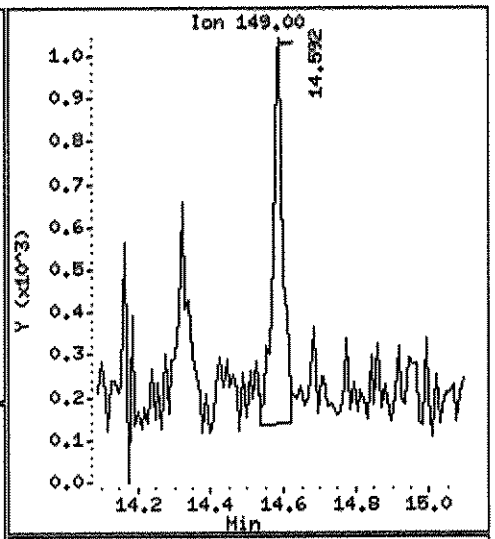
Sample Info: 1J03009-BLK2;1;15;1000;1;UG/KG;04-OCT-2011

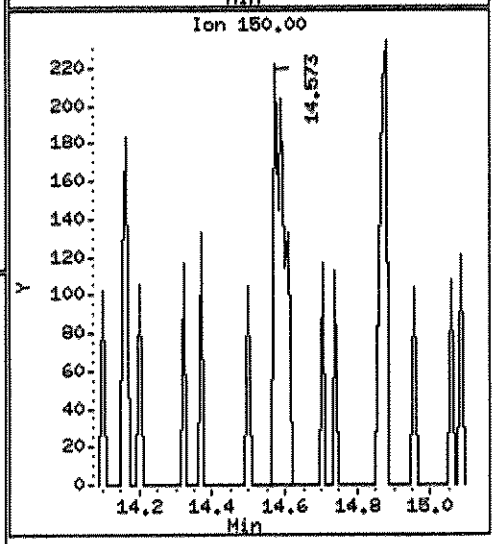
Volume Injected (uL): 1.0 Operator: HEC

Column phase: fused silica Column diameter: 0.25

140 Bis(2-ethylhexyl)phthalate Concentration: 1.776 UG/KG







Data File: \\ELABNSH05\TARGET\chem\bna4.i\102311B4E.b\0919101.D
Report Date: 25-Oct-2011 18:07

Laboratory Name

Data file : \\ELABNSH05\TARGET\chem\bna4.i\102311B4E.b\0919101.D
Lab Smp Id: 1109191-01 Client Smp ID: FLC-4-SS01-0006-092
Inj Date : 23-OCT-2011 22:42 MS Autotune Date: 23-OCT-2011 10:06
Operator : MEC Inst ID: bna4.i
Smp Info : 1109191-01;1;15;1000;1;UG/KG;04-OCT-2011
Misc Info : ;0;;;;1J03009;pahmisc.sub;
Comment :
Method : \\ELABNSH05\TARGET\chem\bna4.i\102311B4E.b\IXBN4LOW.m
Meth Date : 25-Oct-2011 18:04 mcobb Quant Type: ISTD
Cal Date : 24-AUG-2011 18:33 Cal File: SEQ-CAL9.D
Als bottle: 24
Dil Factor: 1.00000
Integrator: HP RTE Compound Sublist: pahmisc.sub
Target Version: 4.04
Processing Host: TARGET09_VM

Concentration Formula: Amt * DF * Uf * Vt*Vi/(Amt * Vi * (Solids/100))

Name	Value	Description
DF	1.000	Dilution Factor
Uf	1.000	ng unit correction factor
Vt	1000.000	Volume of final extract (uL)(1000 low, 2
Amt	15.000	Mass of initial extraction
Vi	1.000	Volume injected (uL)
Solids	100.000	Percent Solids

10-27-1

Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS ON-COLUMN (ng/ul)	FINAL (UG/KG)
* 102 Phenanthrene-d10	188	10.426	10.417	(1.000)	109233	1.00000	
$ 74 2-Fluorobiphenyl	172	7.768	7.768	(0.748)	4608651	44.6505	2977
77 Acenaphthylene	152	8.418	8.418	(0.807)	3371	0.02382	1.588(a)
$ 107 2,4,6-Tribromophenol	330	9.562	9.562	(0.917)	1447985	76.5685	5104
111 Phenanthrene	178	10.454	10.454	(1.003)	4810	0.03784	2.523(a)
116 Fluoranthene	202	11.997	11.997	(1.151)	6528	0.05454	3.636
134 Pyrene	202	12.341	12.341	(1.184)	8358	0.06878	4.586
* 154 Perylene-d12	264	17.175	17.175	(1.000)	51811	1.00000	
$ 135 Terphenyl-d14	244	12.611	12.602	(1.210)	2876658	41.5219	2768
140 Bis(2-ethylhexyl)phthalate	149	14.591	14.591	(0.850)	6021	0.07038	4.692
156 Benzo(b)fluoranthene	252	16.478	16.469	(0.959)	6730	0.09729	6.486
158 Benzo(a)pyrene	252	17.082	17.073	(0.995)	3752	0.06435	4.290(M)
159 Indeno(1,2,3-cd)pyrene	276	19.165	19.165	(1.116)	3194	0.07636	5.091(M)

10/27/11

Data File: \\ELABNSH05\TARGET\chem\bna4.i\102311B4E.b\0919101.D
Report Date: 25-Oct-2011 18:07

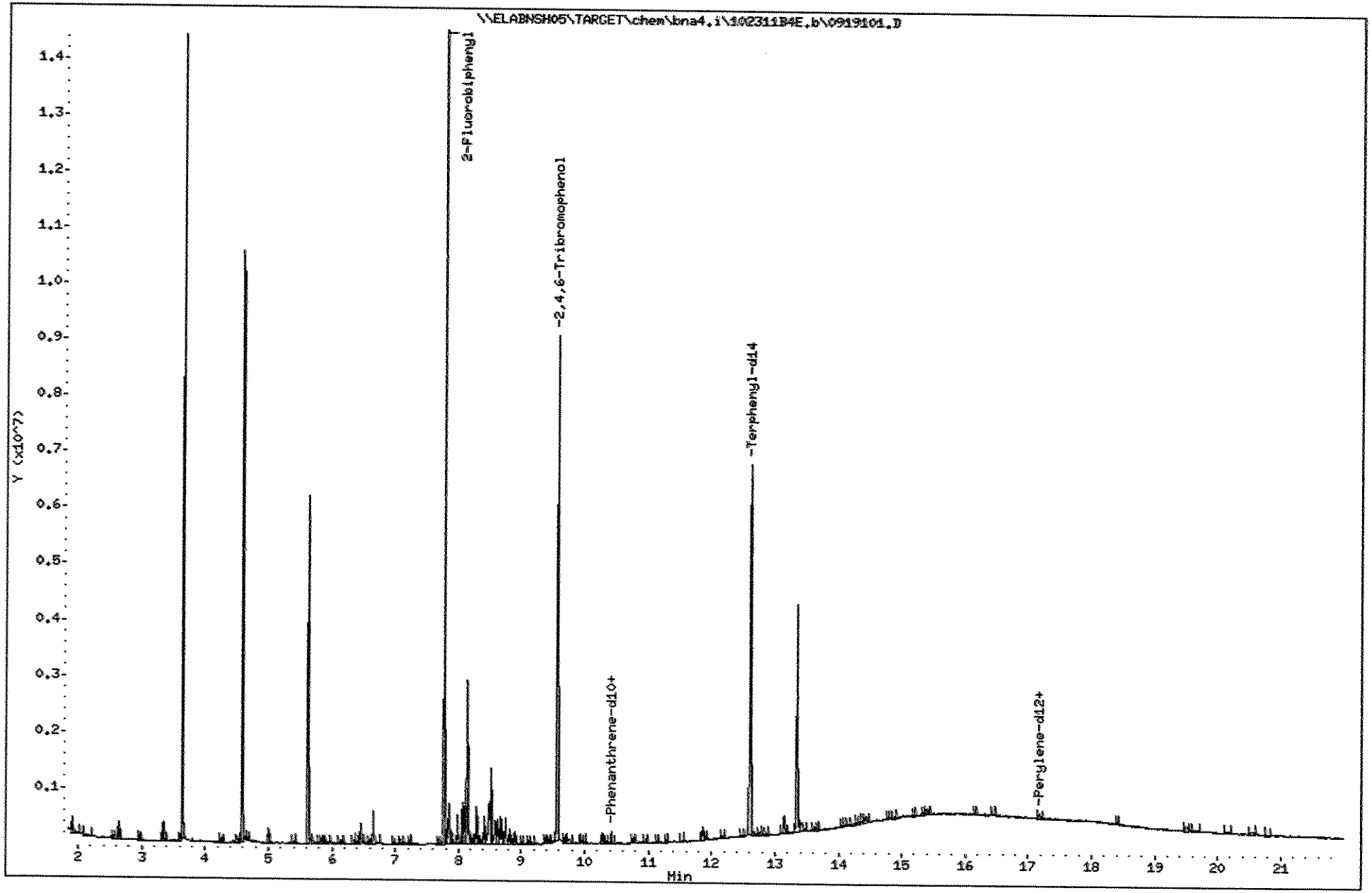
QC Flag Legend

a - Target compound detected but, quantitated amount
    Below Limit Of Quantitation(BLOQ).
M - Compound response manually integrated.

Data File: \\ELABNSH05\TARGET\chem\bna4.i\102311B4E.b\0919101.D
Date : 23-OCT-2011 22:42
Client ID: FLC-4-SS01-0006-092
Sample Info: 1109191-01;1;15;1000;1;UC/XG;04-OCT-2011
Volume Injected (uL): 1.0
Column phase: fused silica

Instrument: bna4.i

Operator: NEC
Column diameter: 0.25



Data File: \\ELABNSH05\TARGET\chem\bna4.i\102311B4E.b\0919101.D

Date : 23-OCT-2011 22:42

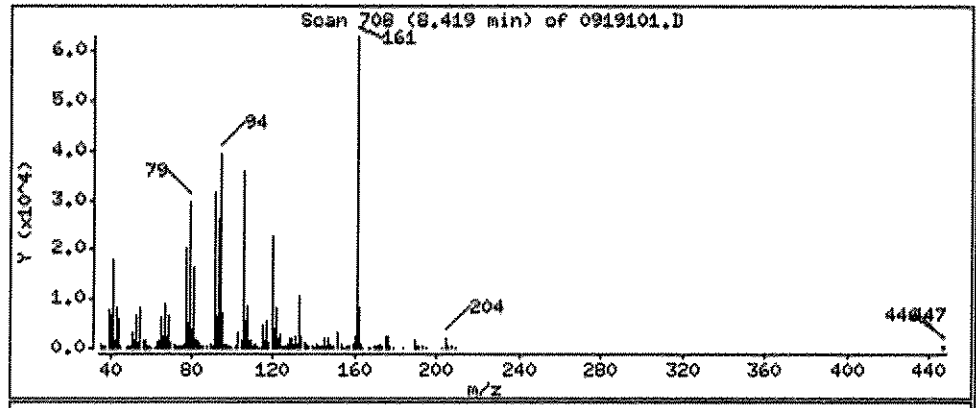
Client ID: FLC-4-SS01-0006-092 Instrument: bna4.i

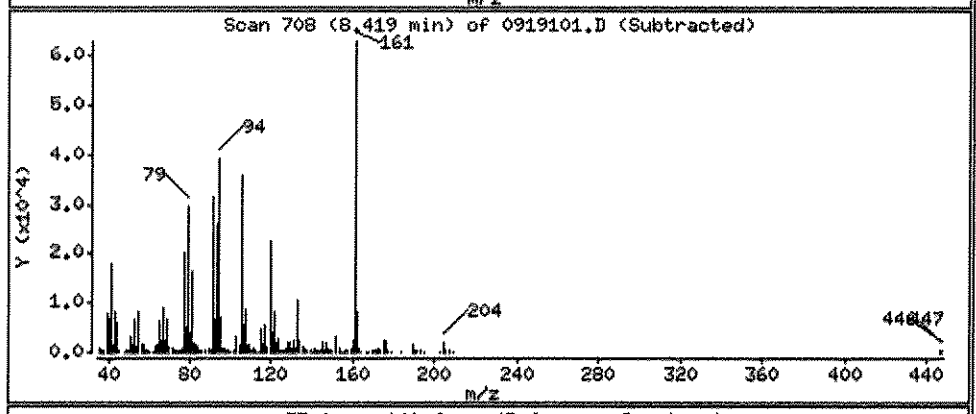
Sample Info: 1109191-01;1;15;1000;1;UG/KG;04-OCT-2011

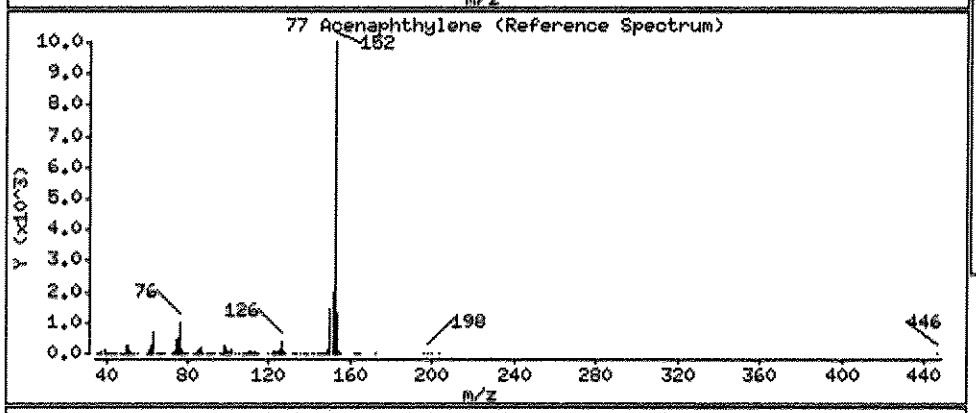
Volume Injected (uL): 1.0 Operator: HEC

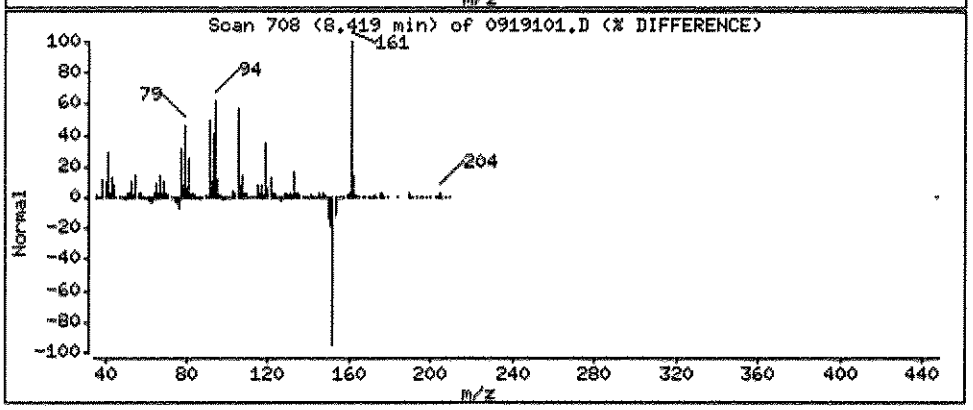
Column phase: fused silica Column diameter: 0.25

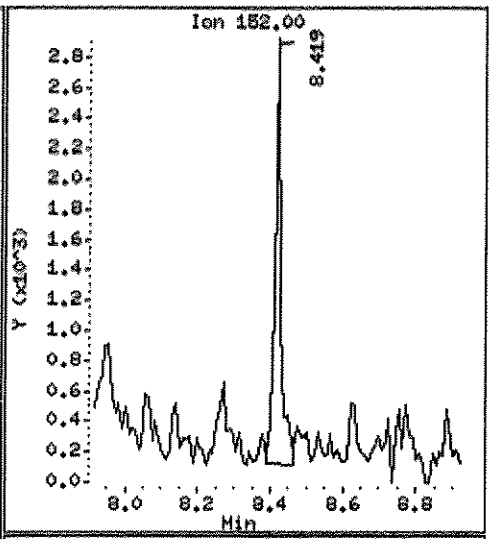
77 Acenaphthylene Concentration: 1.588 UG/KG

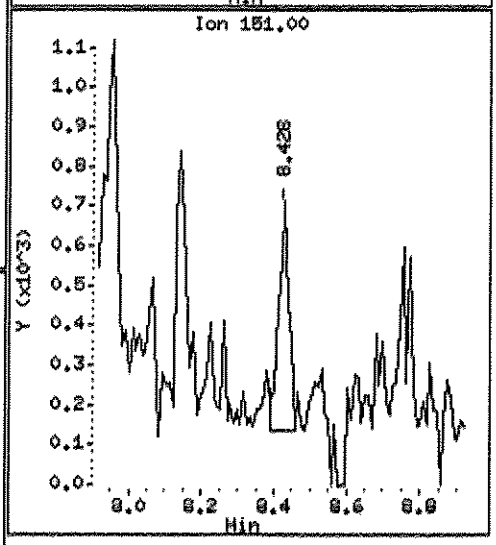












Data File: \\ELABNSHOS\TARGET\chem\bna4.i\102311D4E.b\0919101.D

Date : 23-OCT-2011 22:42

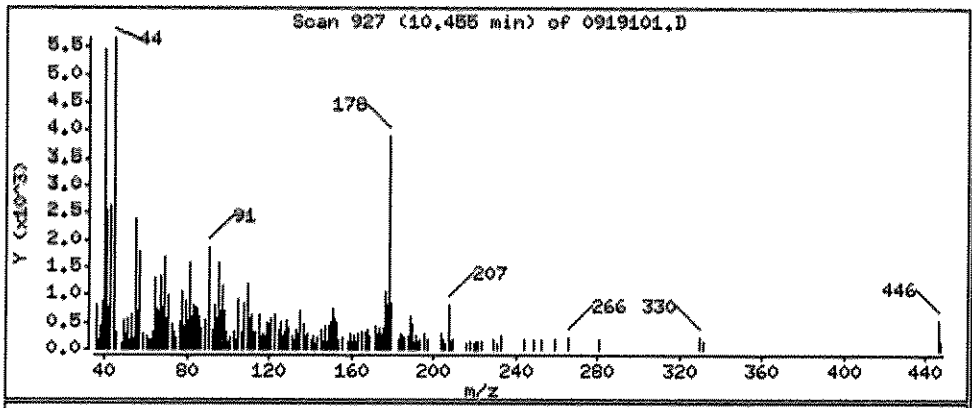
Client ID: FLC-4-SS01-0006-092 Instrument: bna4.i

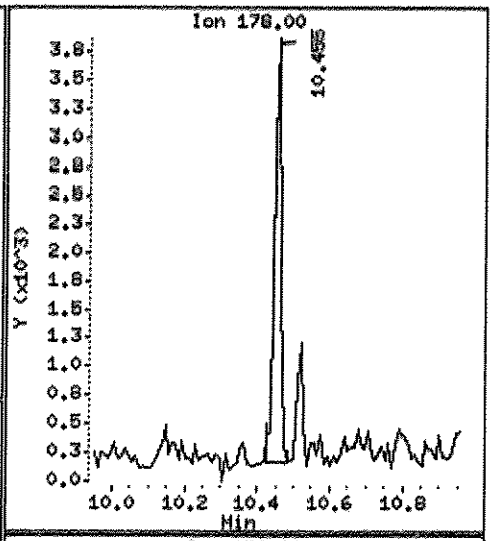
Sample Info: 1109191-01;1;15;1000;1;UG/KG;04-OCT-2011

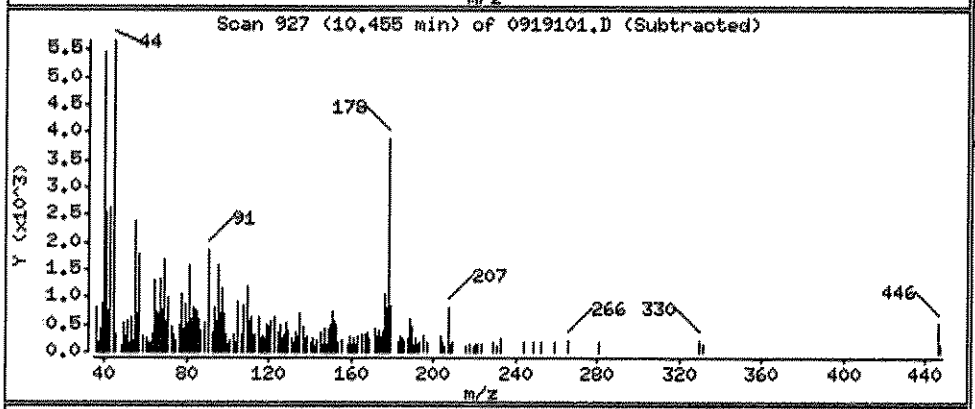
Volume Injected (uL): 1.0 Operator: HEC

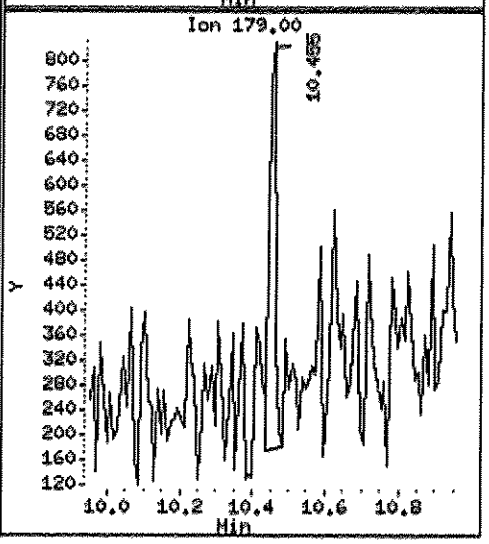
Column phase: fused silica Column diameter: 0.25

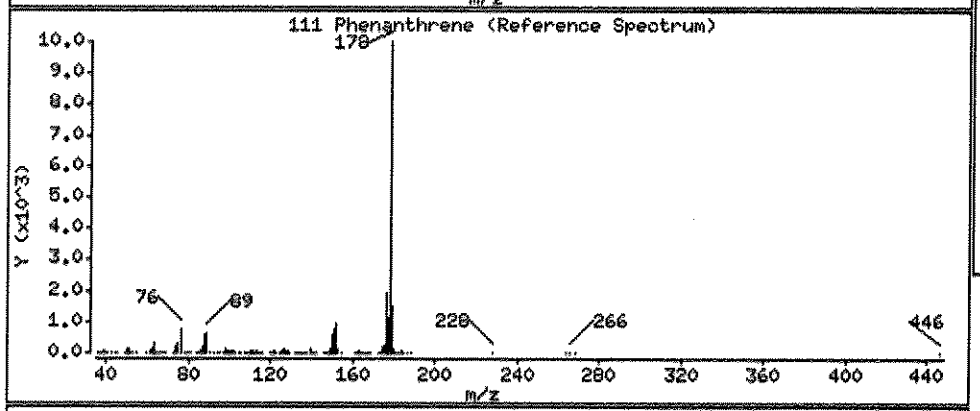
111 Phenanthrene Concentration: 2.523 UG/KG

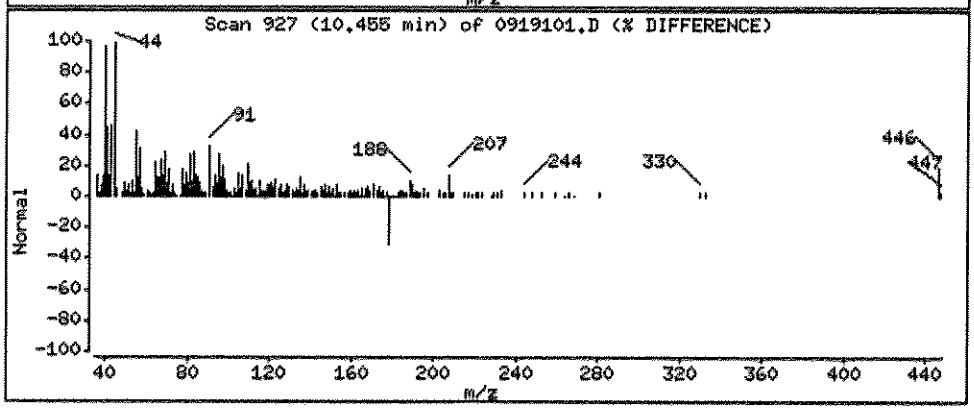












Data File: \\ELABHSH05\TARGET\chem\bna4.i\102311B4E.b\0919101.D

Date : 23-OCT-2011 22:42

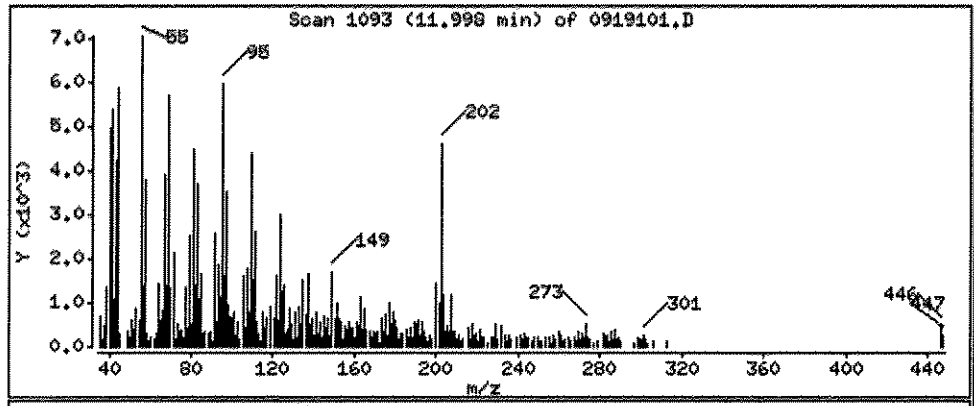
Client ID: FLC-4-SS01-0006-092 Instrument: bna4.i

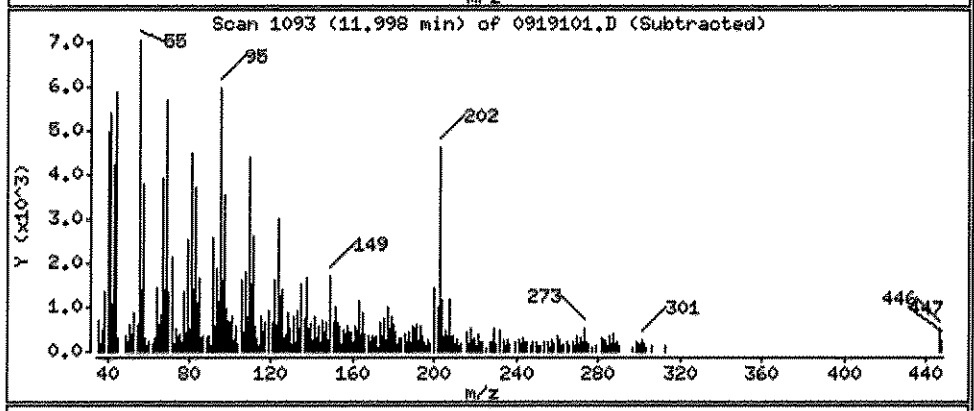
Sample Info: 1109191-01;1;15;1000;1;UG/KG;04-OCT-2011

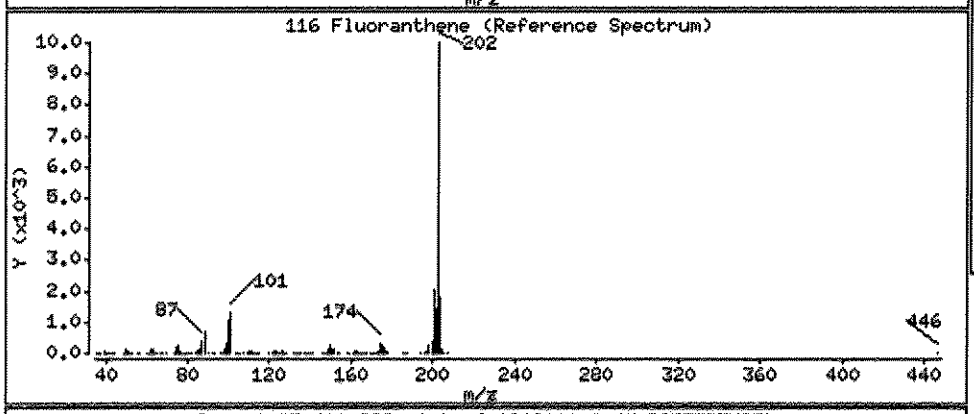
Volume Injected (uL): 1.0 Operator: HEC

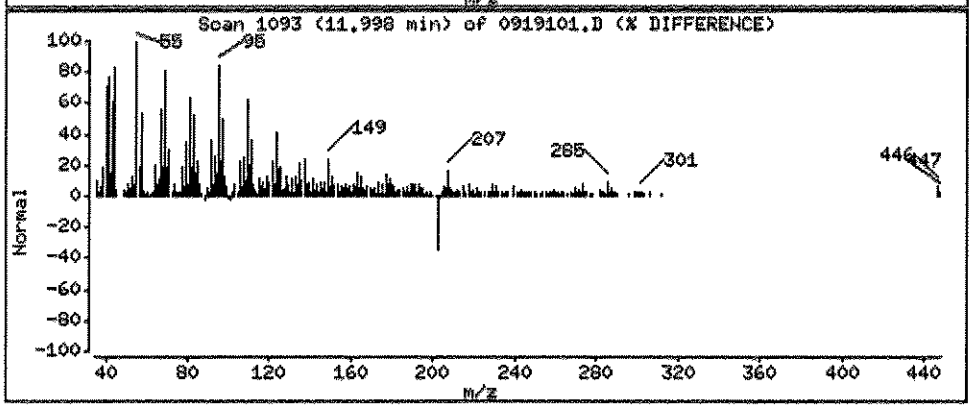
Column phase: fused silica Column diameter: 0.25

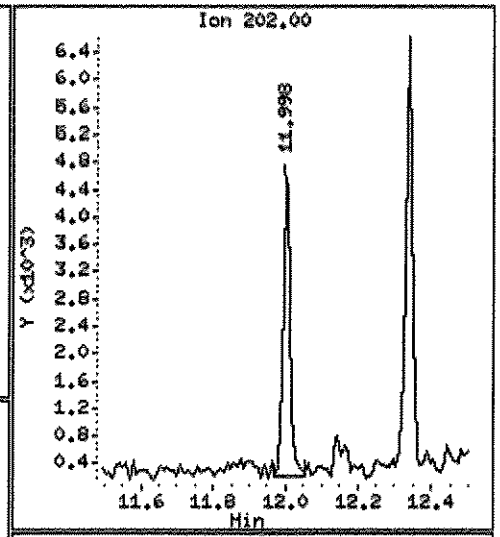
116 Fluoranthene Concentration: 3.636 UG/KG

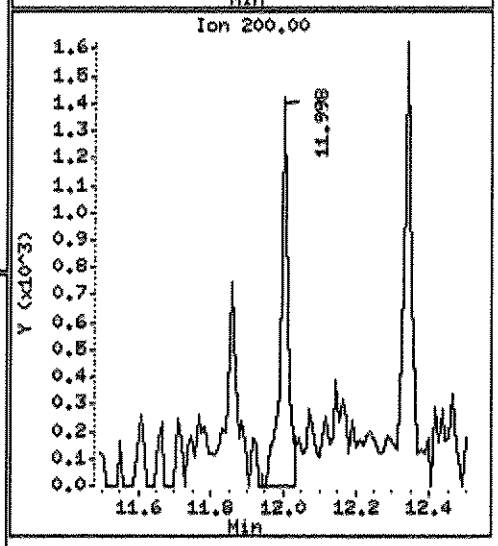












Data File: \\ELADNSH05\TARGET\chem\bna4.i\102311B4E.b\0919101.D

Date : 23-OCT-2011 22:42

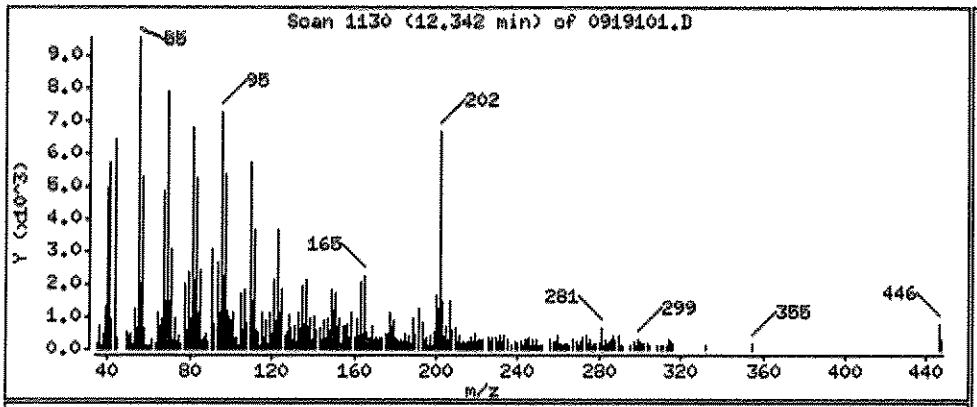
Client ID: FLC-4-SS01-0006-092 Instrument: bna4.i

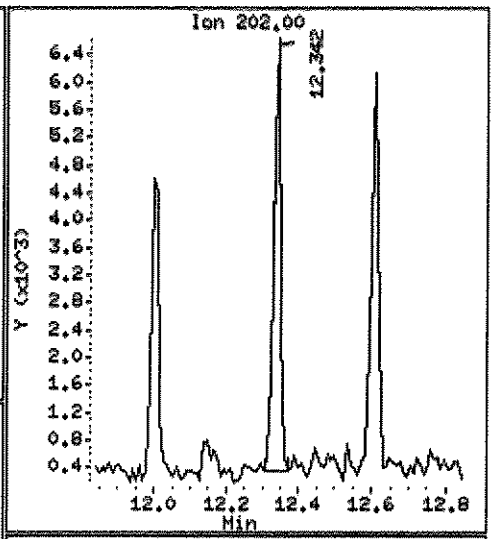
Sample Info: 1109191-01;1;15;1000;1;UG/KG;04-OCT-2011

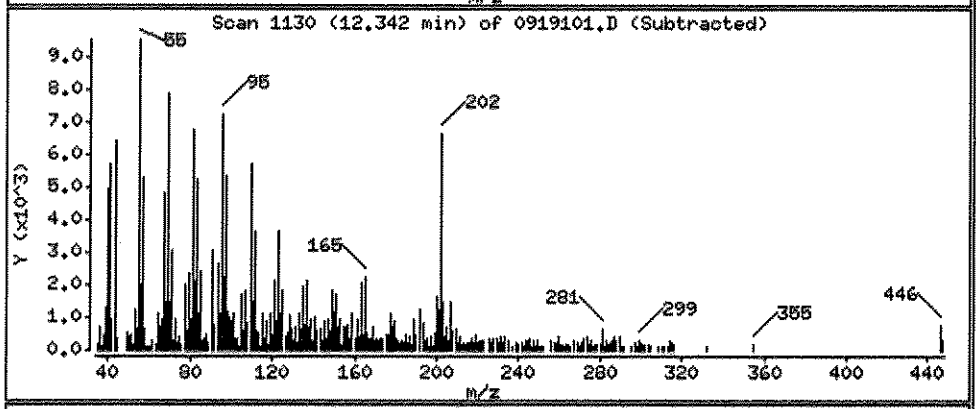
Volume Injected (uL): 1.0 Operator: HEC

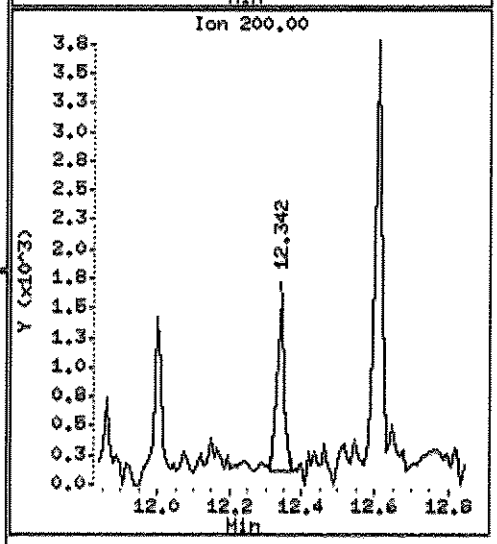
Column phase: fused silica Column diameter: 0.25

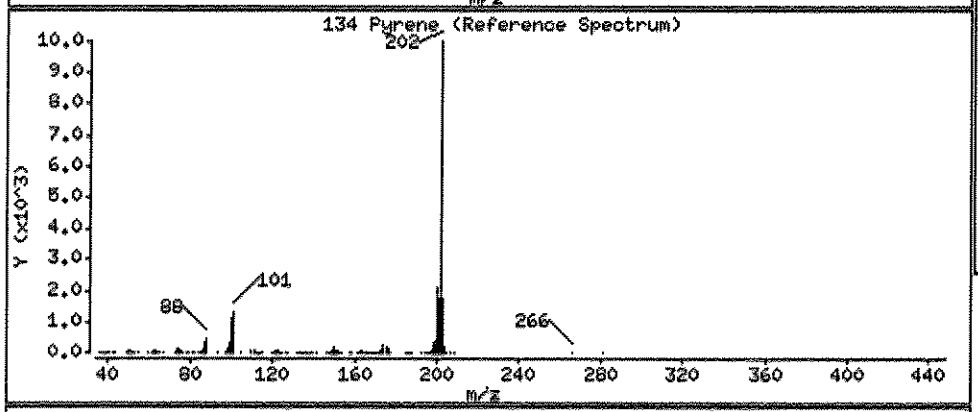
134 Pyrene Concentration: 4.586 UG/KG

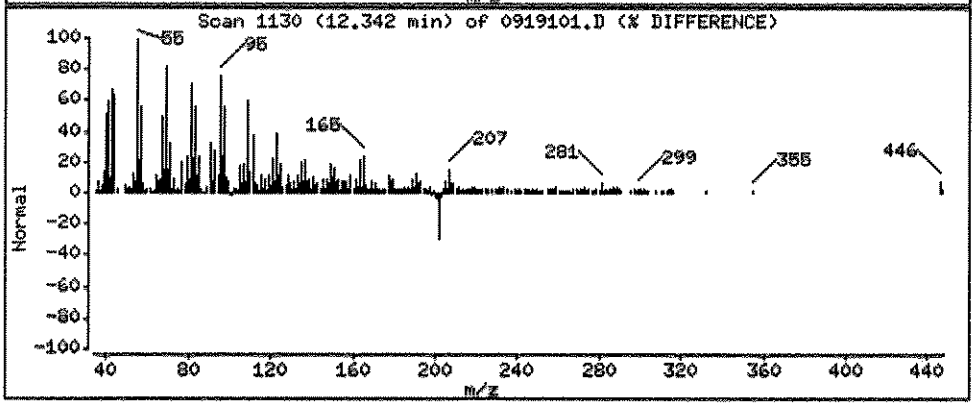












Data File: \\ELADNSH05\TARGET\chem\bna4.i\102311B4E.b\0919101.D

Date : 23-OCT-2011 22:42

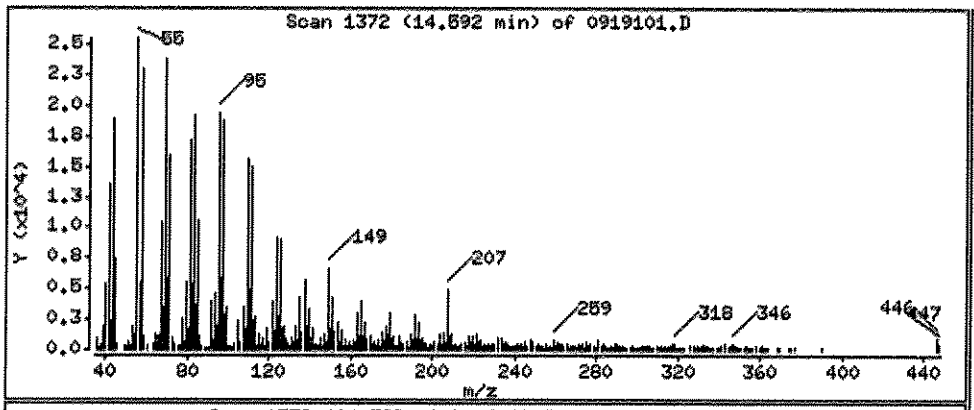
Client ID: FLC-4-SS01-0006-092 Instrument: bna4.i

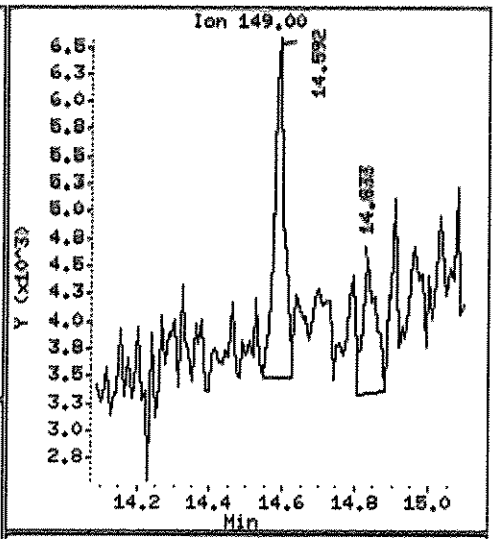
Sample Info: 1109191-01;1;15;1000;1;UG/KG;04-OCT-2011

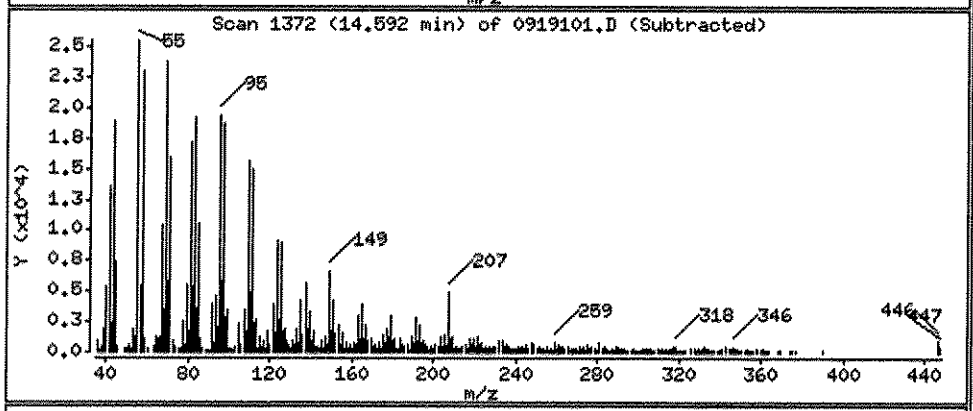
Volume Injected (uL): 1.0 Operator: MEC

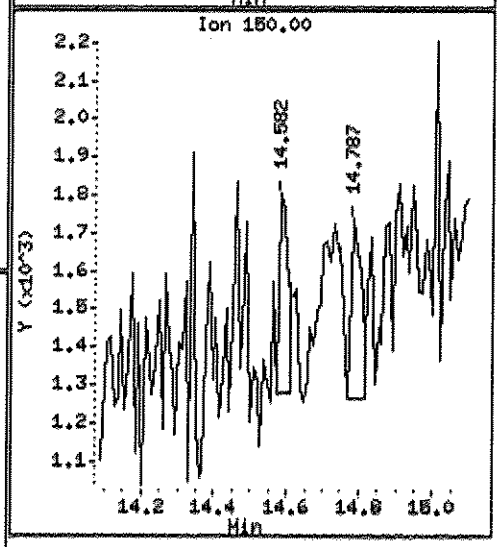
Column phase: fused silica Column diameter: 0.25

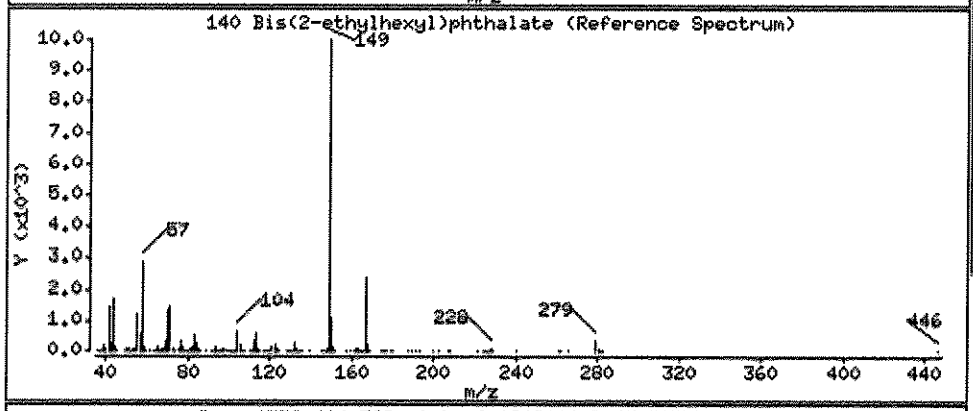
140 Bis(2-ethylhexyl)phthalate Concentration: 4.692 UG/KG

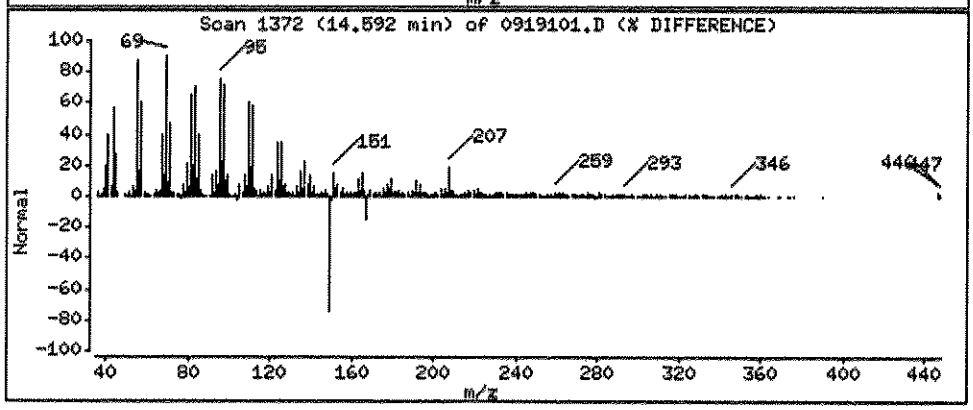












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Date : 23-OCT-2011 22:42

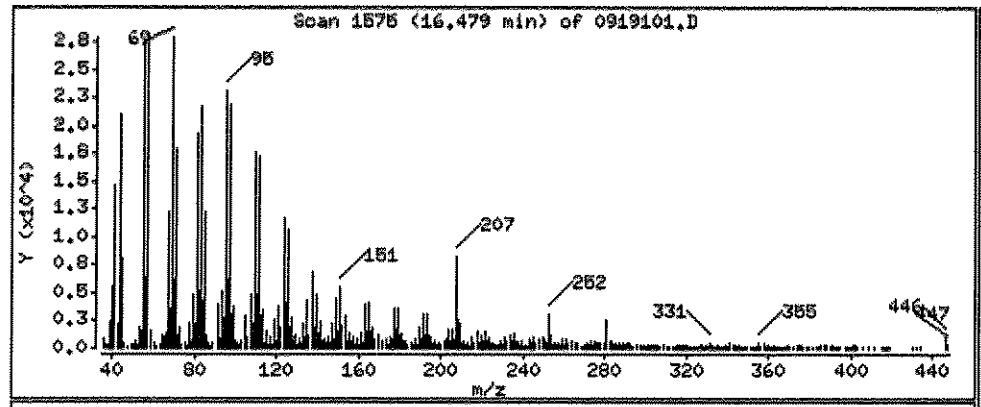
Client ID: FLC-4-SS01-0006-092 Instrument: bna4.i

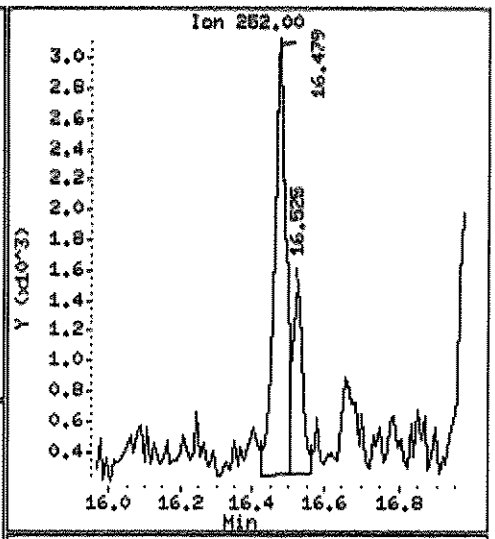
Sample Info: 1109191-01;1;15;1000;1;UG/KG;04-OCT-2011

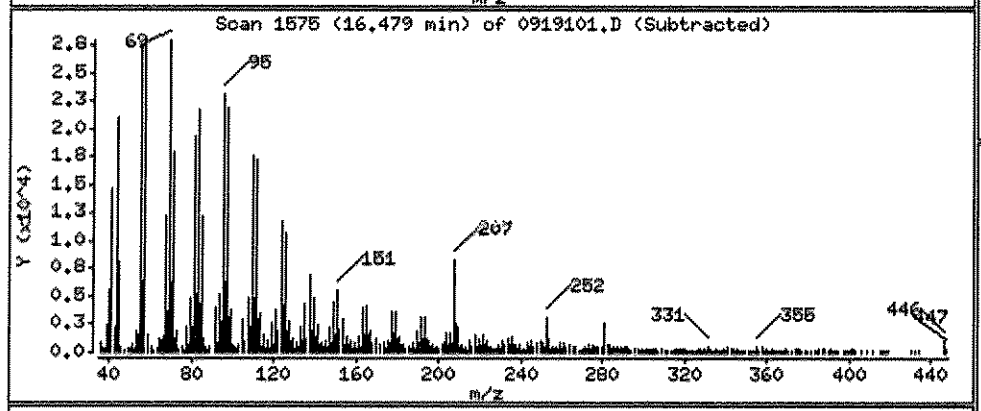
Volume Injected (uL): 1.0 Operator: HEC

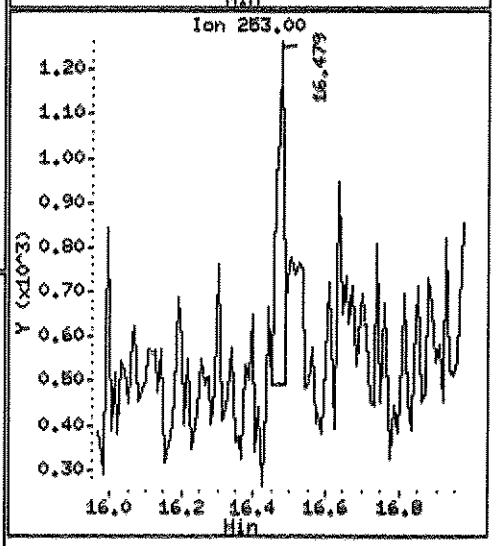
Column phase: fused silica Column diameter: 0.25

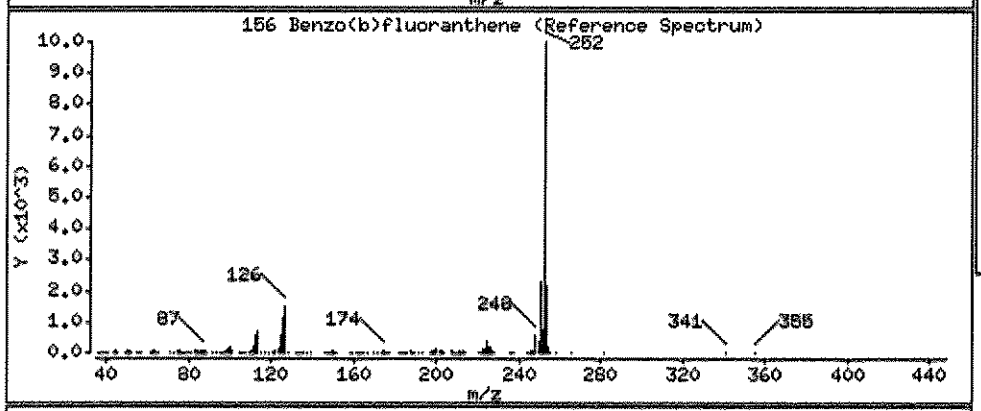
156 Benzo(b)fluoranthene Concentration: 6.486 UG/KG

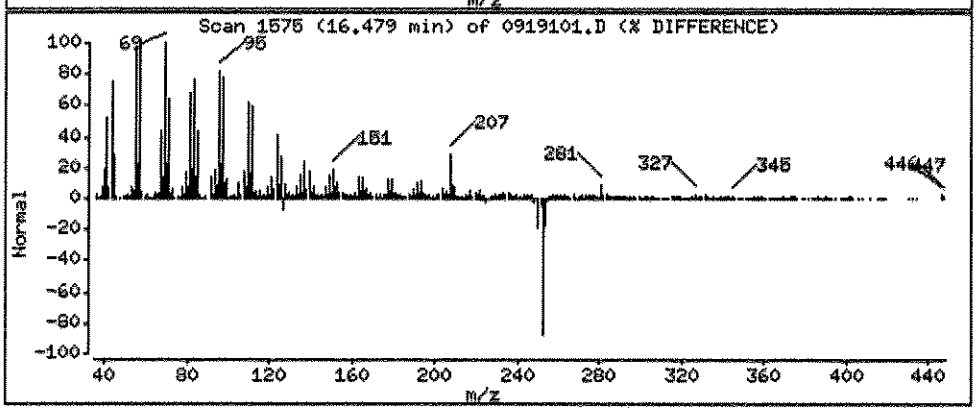












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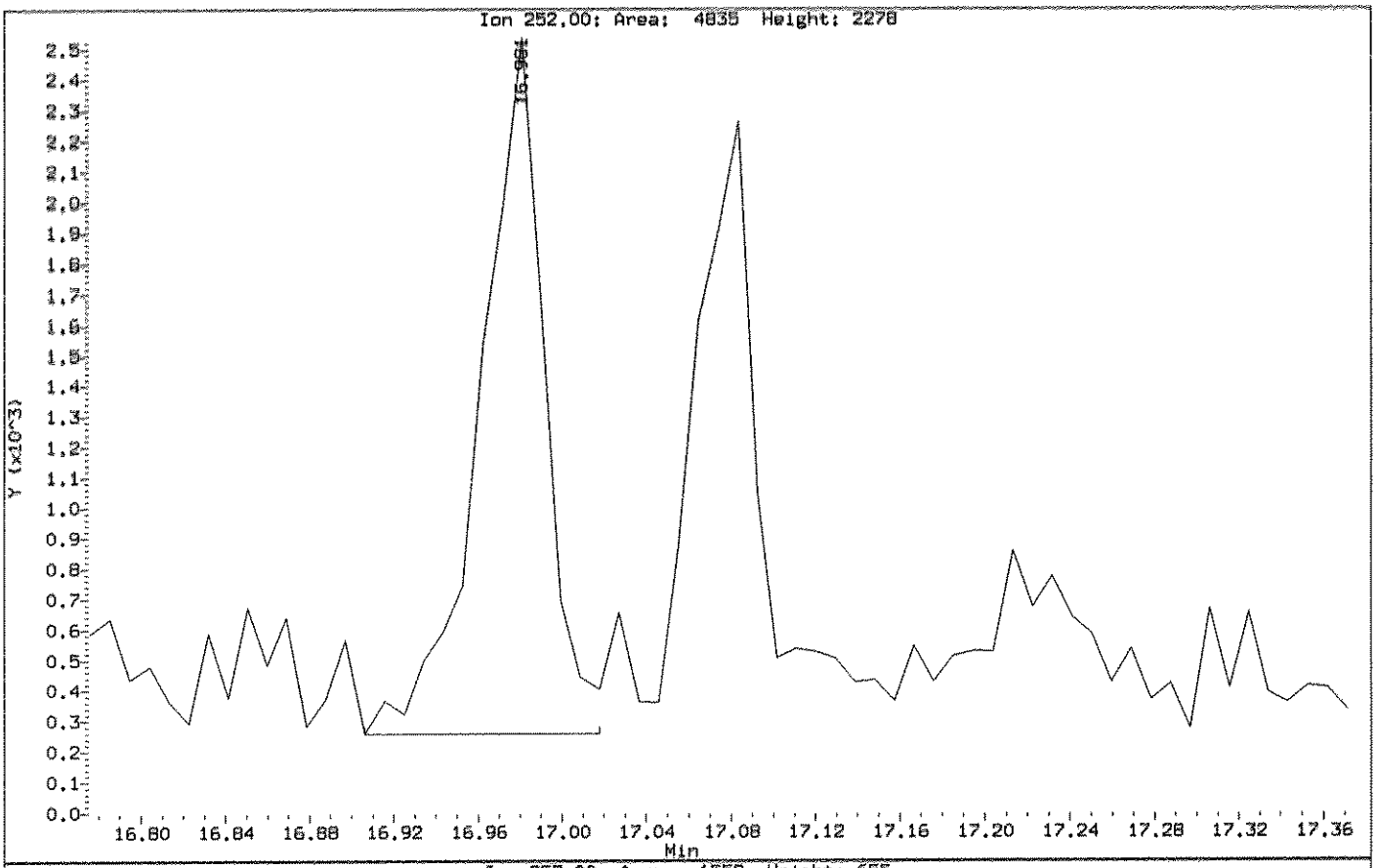
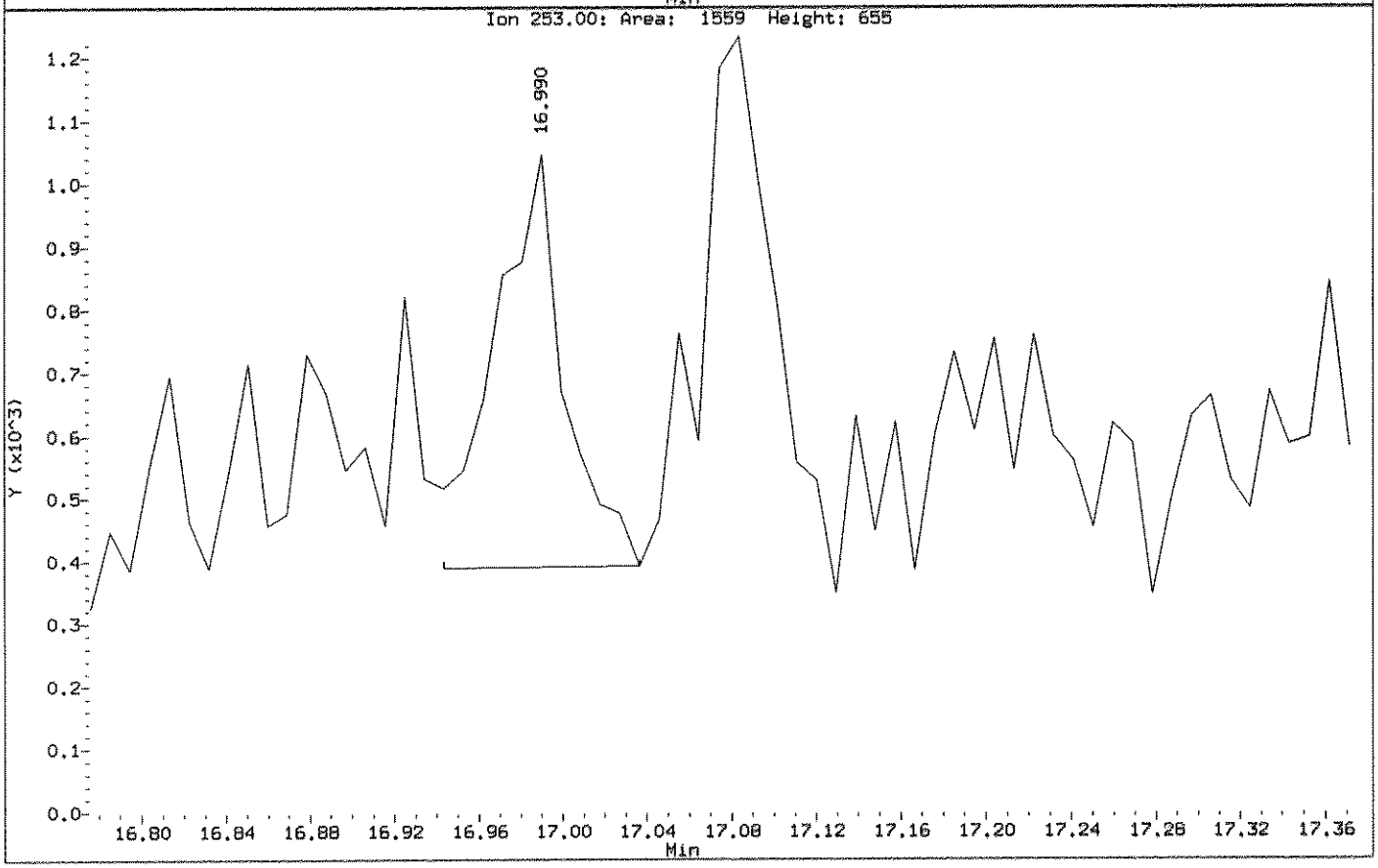
Injection Date: 23-OCT-2011 22:42
Instrument: bna4.i
Client Sample ID: FLC-4-SS01-0006-092

Compound: Benzo(a)pyrene
CAS Number: 50-32-8





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Date : 23-OCT-2011 22:42

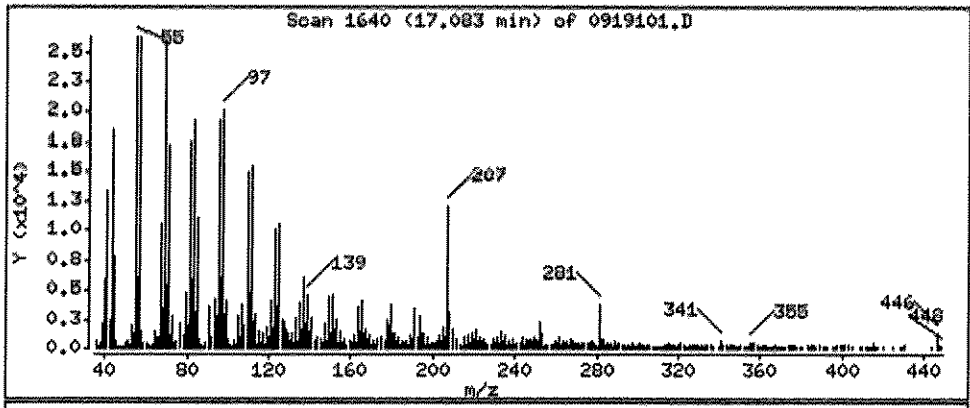
Client ID: FLC-4-SS01-0006-092 Instrument: bna4.i

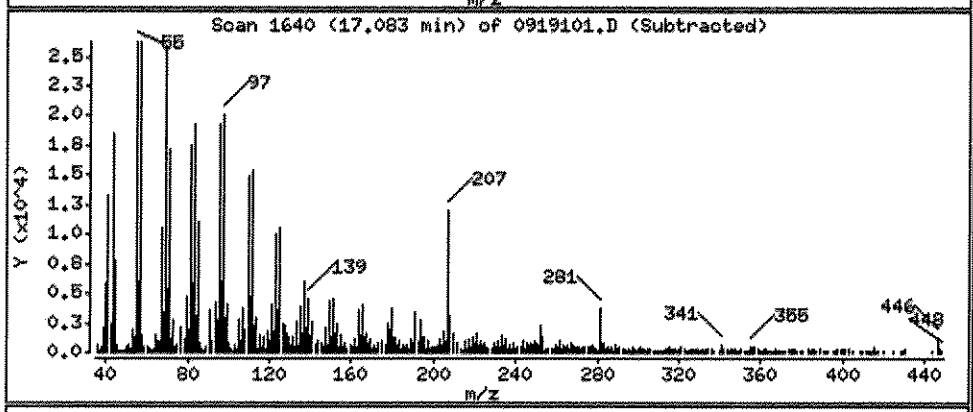
Sample Info: 1109191-01;1;15;1000;1;UG/KG;04-OCT-2011

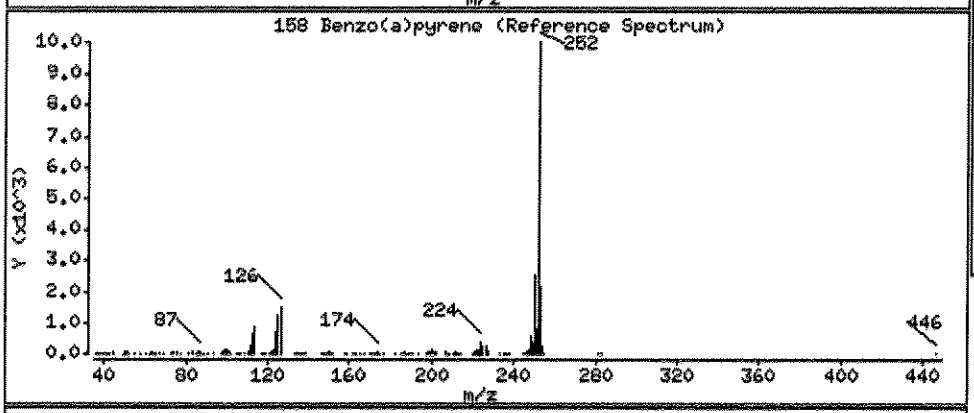
Volume Injected (uL): 1.0 Operator: HEC

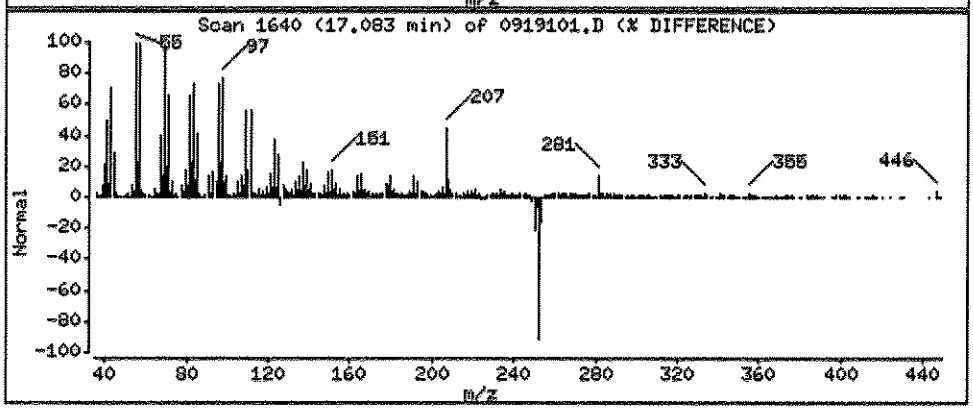
Column phase: fused silica Column diameter: 0.25

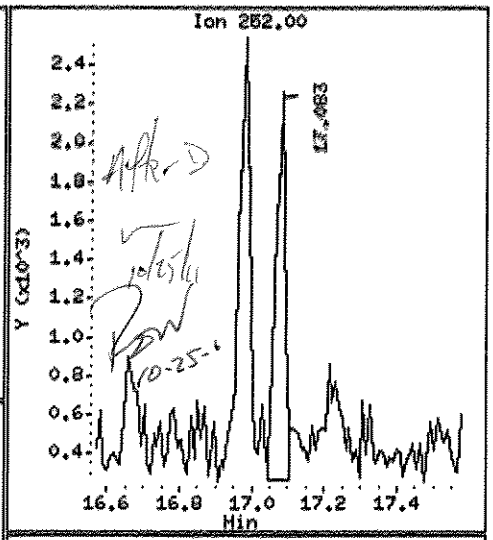
158 Benzo(a)pyrene Concentration: 4.290 UG/KG

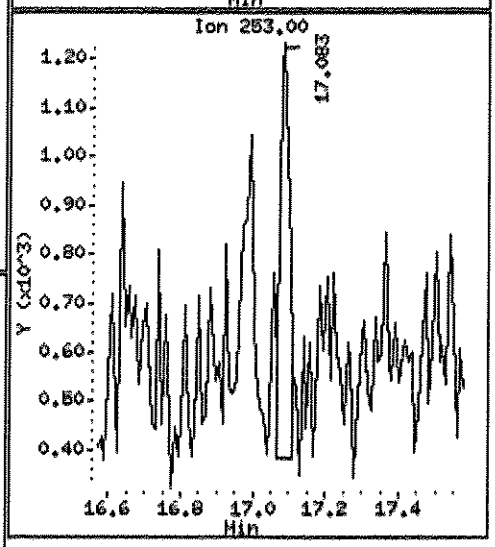






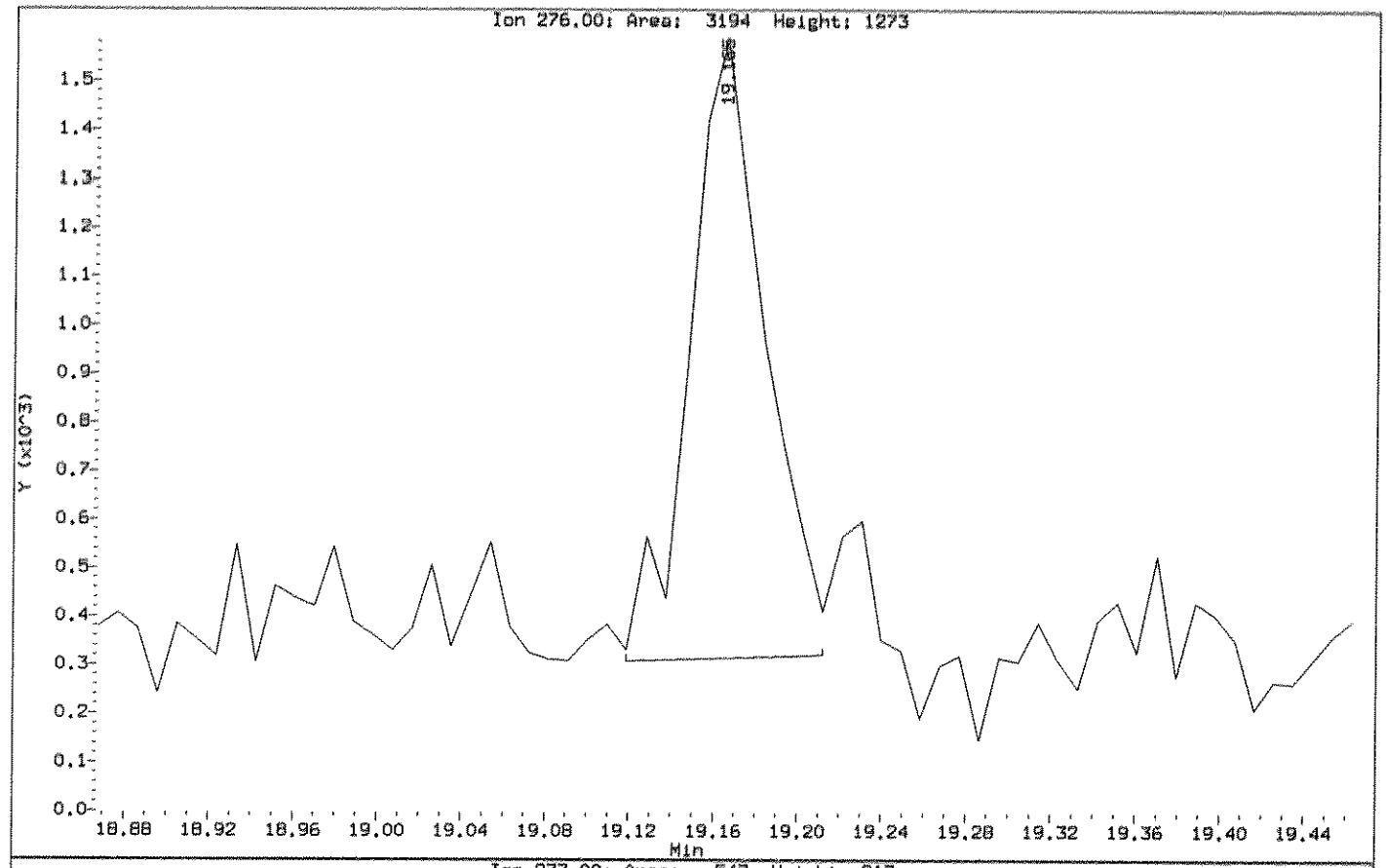


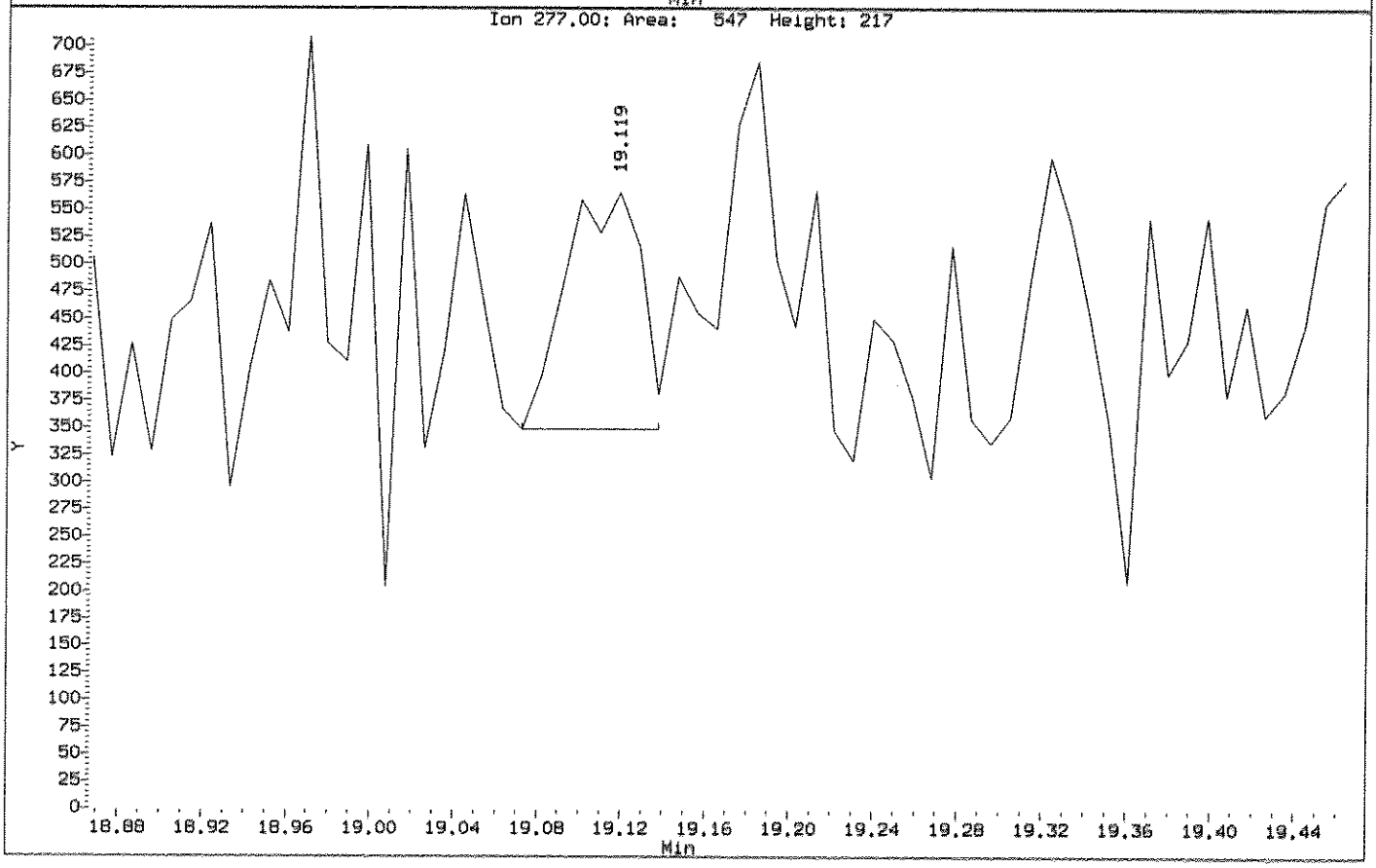




Data File: \\ELABNSHO5\TARGET\chem\bna4.i\102311B4E.b\0919101.D
Injection Date: 23-OCT-2011 22:42
Instrument: bna4.i
Client Sample ID: FLC-4-5501-0006-092

Compound: Indeno(1,2,3-cd)pyrene
CAS Number: 193-39-5





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Date : 23-OCT-2011 22:42

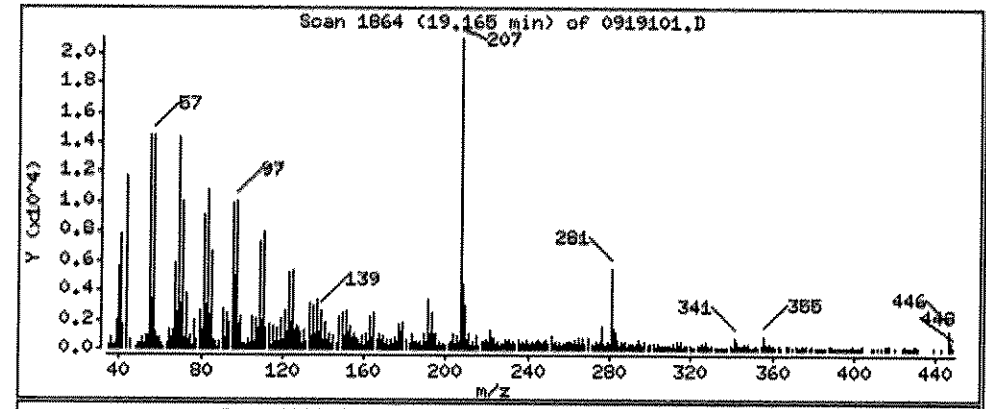
Client ID: FLC-4-SS01-0006-092 Instrument: bna4.i

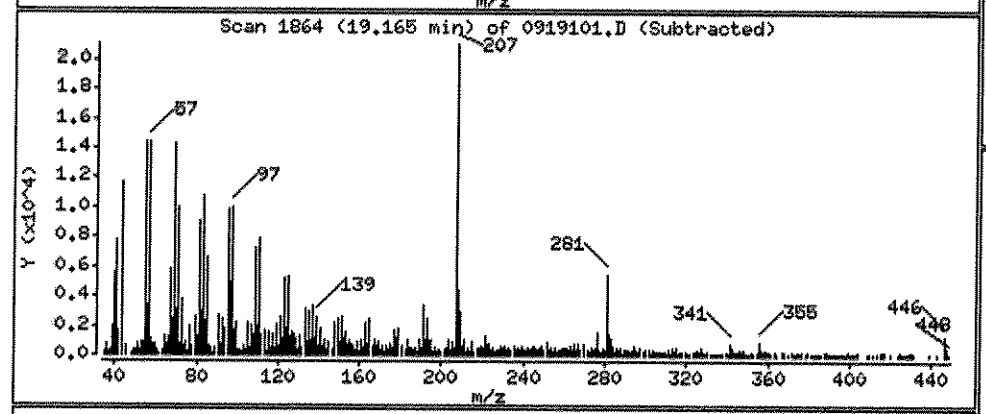
Sample Info: 1109191-01;1;15;1000;1;UG/KG;04-OCT-2011

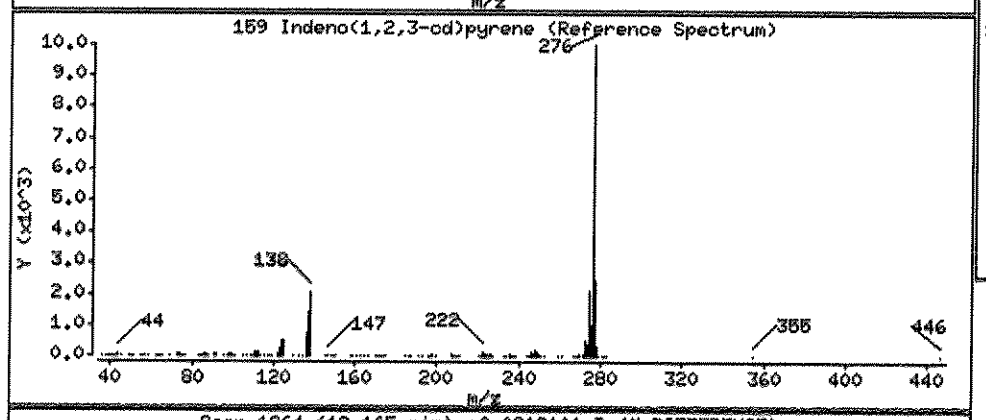
Volume Injected (uL): 1.0 Operator: HEC

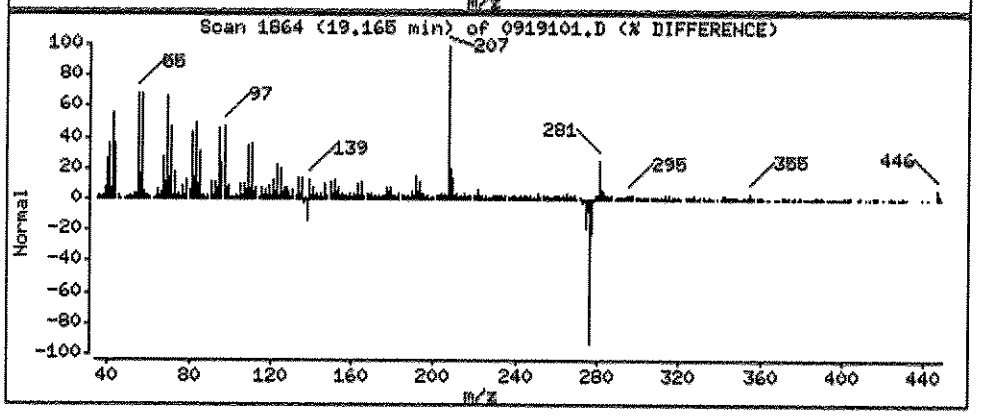
Column phase: fused silica Column diameter: 0.25

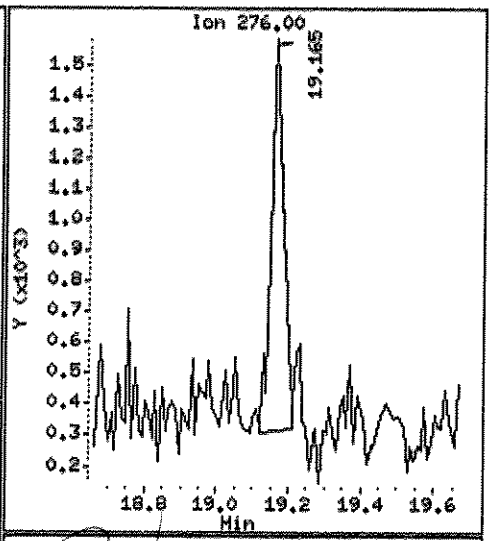
159 Indeno(1,2,3-cd)pyrene Concentration: 5.091 UG/KG

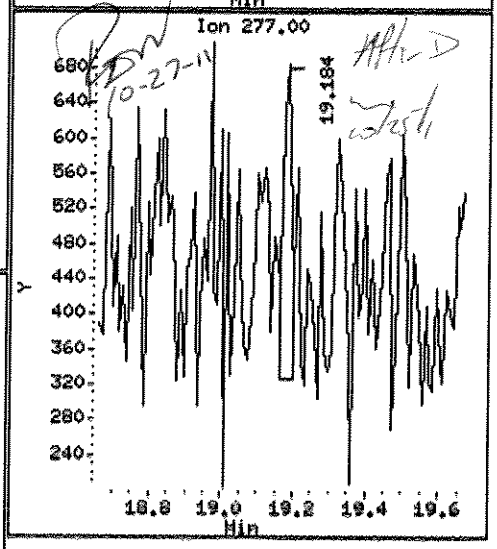












Data File: \\ELABNSH05\TARGET\chem\bna4.i\102311B4E.b\0919102.D
Report Date: 25-Oct-2011 18:07

Laboratory Name

Data file : \\ELABNSH05\TARGET\chem\bna4.i\102311B4E.b\0919102.D
Lab Smp Id: 1109191-02 Client Smp ID: FLC-4-SS01-0624-092
Inj Date : 23-OCT-2011 23:12 MS Autotune Date: 23-OCT-2011 10:06
Operator : MEC Inst ID: bna4.i
Smp Info : 1109191-02;1;15;1000;1;UG/KG;04-OCT-2011
Misc Info : ;0;;;;1J03009;pahmisc.sub;
Comment :
Method : \\ELABNSH05\TARGET\chem\bna4.i\102311B4E.b\IXBN4LOW.m
Meth Date : 25-Oct-2011 18:04 mcobb Quant Type: ISTD
Cal Date : 24-AUG-2011 18:33 Cal File: SEQ-CAL9.D
Als bottle: 25
Dil Factor: 1.00000
Integrator: HP RTE Compound Sublist: pahmisc.sub
Target Version: 4.04
Processing Host: TARGET09_VM

Concentration Formula: Amt * DF * Uf * Vt*Vi/(Amt * Vi * (Solids/100))

Name	Value	Description
DF	1.000	Dilution Factor
Uf	1.000	ng unit correction factor
Vt	1000.000	Volume of final extract (uL)(1000 low, 2
Amt	15.000	Mass of initial extraction
Vi	1.000	Volume injected (uL)
Solids	100.000	Percent Solids

10-27-11

Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS ON-COLUMN (ng/ul)	FINAL (UG/KG)
* 102 Phenanthrene-d10	188	10.426	10.417	(1.000)	166495	1.00000	
$ 74 2-Fluorobiphenyl	172	7.767	7.768	(0.745)	4908647	31.2009	2080
110 Pentachlorophenol	266	10.203	10.185	(0.979)	621	1.14002	76.00
$ 107 2,4,6-Tribromophenol	330	9.571	9.562	(0.918)	1841866	63.8994	4260
111 Phenanthrene	178	10.454	10.454	(1.003)	6506	0.03358	2.239(a)
116 Fluoranthene	202	11.997	11.997	(1.151)	13001	0.07126	4.750
134 Pyrene	202	12.341	12.341	(1.184)	18416	0.09943	6.629
* 154 Perylene-d12	264	17.185	17.175	(1.000)	54388	1.00000	
$ 135 Terphenyl-d14	244	12.611	12.602	(1.210)	3791226	35.9022	2393
138 Benzo(a)anthracene	228	14.414	14.414	(1.382)	7629	0.06573	4.382
139 Chrysene	228	14.479	14.480	(1.389)	9808	0.08393	5.595
140 Bis(2-ethylhexyl)phthalate	149	14.591	14.591	(0.849)	8801	0.09800	6.534
156 Benzo(b)fluoranthene	252	16.478	16.469	(0.959)	12028	0.16565	11.04

10/25/11

Data File: \\ELABNSH05\TARGET\chem\bna4.i\102311B4E.b\0919102.D
Report Date: 25-Oct-2011 18:07

Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS ON-COLUMN (ng/ul)	FINAL (UG/KG)
158 Benzo(a)pyrene	252	17.073	17.073	(0.994)	6694	0.10937	7.291
159 Indeno(1,2,3-cd)pyrene	276	19.165	19.165	(1.115)	5265	0.11991	7.994
161 Benzo(g,h,i)perylene	276	19.741	19.723	(1.149)	10436	0.23505	15.67

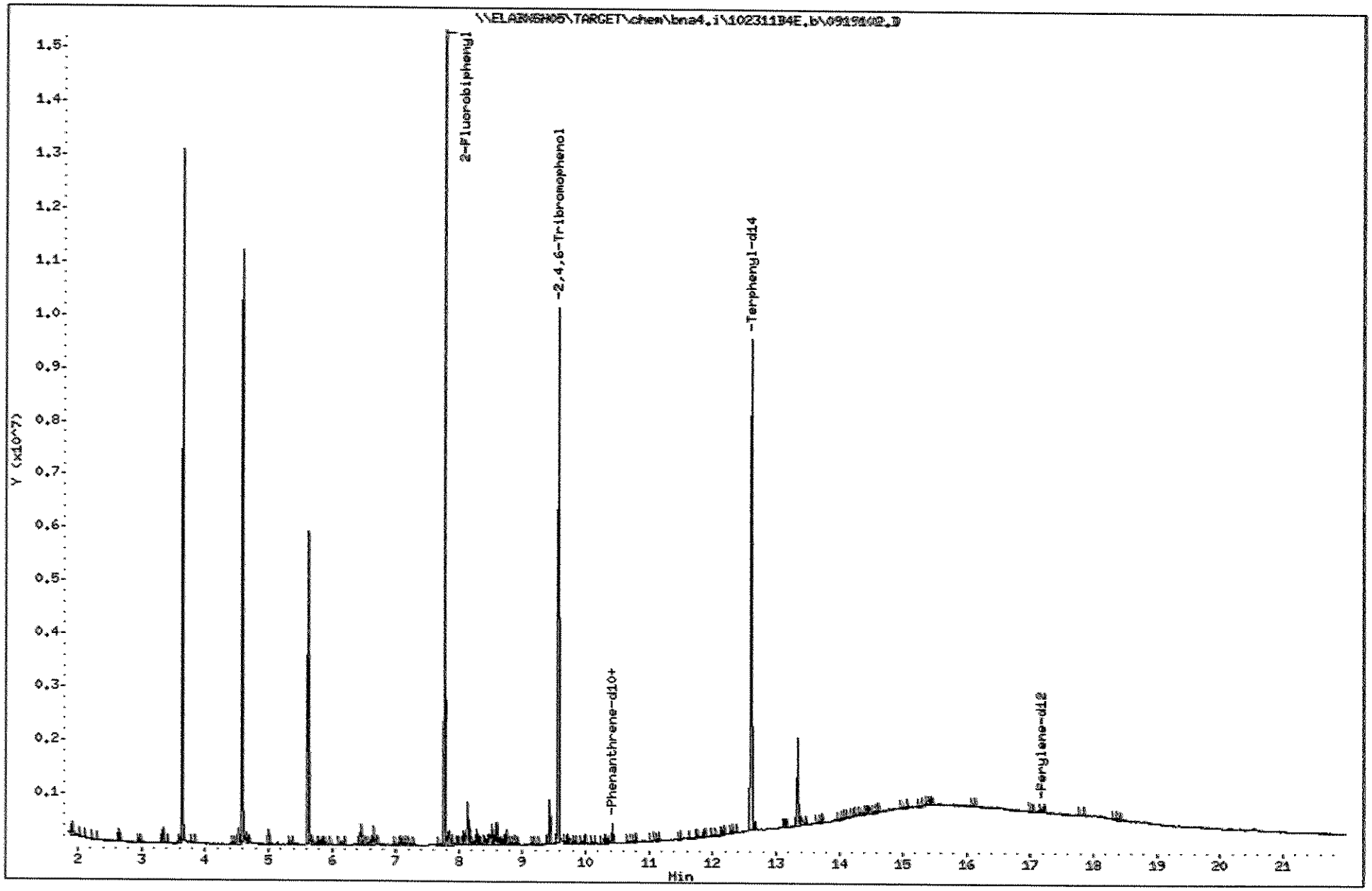
QC Flag Legend

a - Target compound detected but, quantitated amount Below Limit Of Quantitation(BLOQ).

Data File: \\ELABNSH05\TARGET\chem\bna4.i\102311B4E.b\0919102.D
Date : 23-OCT-2011 23:12
Client ID: FLC-4-SS01-0624-092
Sample Info: 1109191-02;1;15;1000;1;UG/KG;04-OCT-2011
Volume Injected (uL): 1.0
Column phase: fused silica

Instrument: bna4.i

Operator: MEC
Column diameter: 0.25



1012

1109191

Data File: \\ELABNSHOB\TARGET\chem\bna4.i\102311B4E.b\0919102.D

Date : 23-OCT-2011 23:12

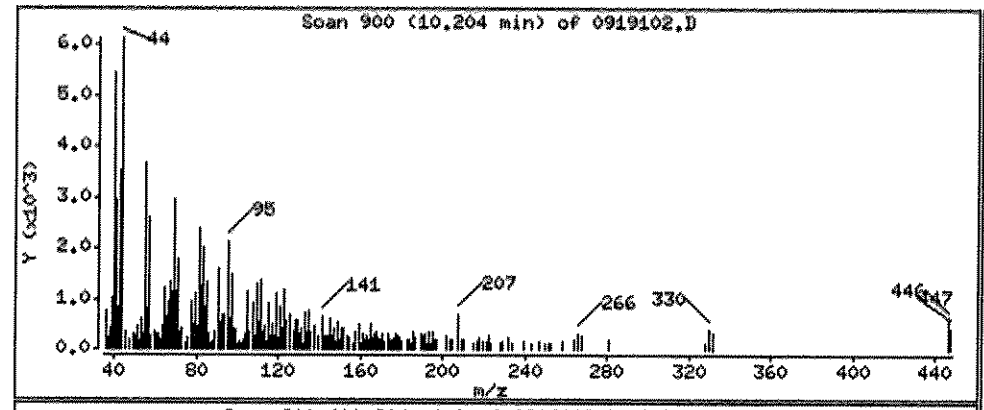
Client ID: FLC-4-SS01-0624-092 Instrument: bna4.i

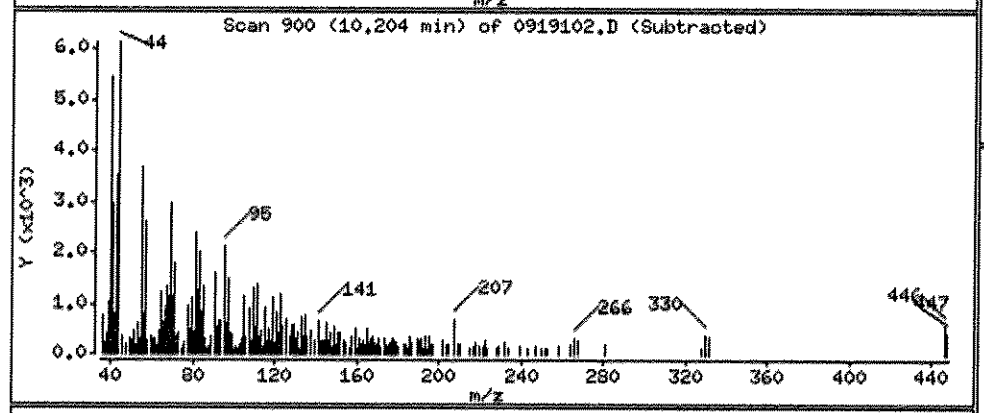
Sample Info: 1109191-02;1;15;1000;1;UG/KG;04-OCT-2011

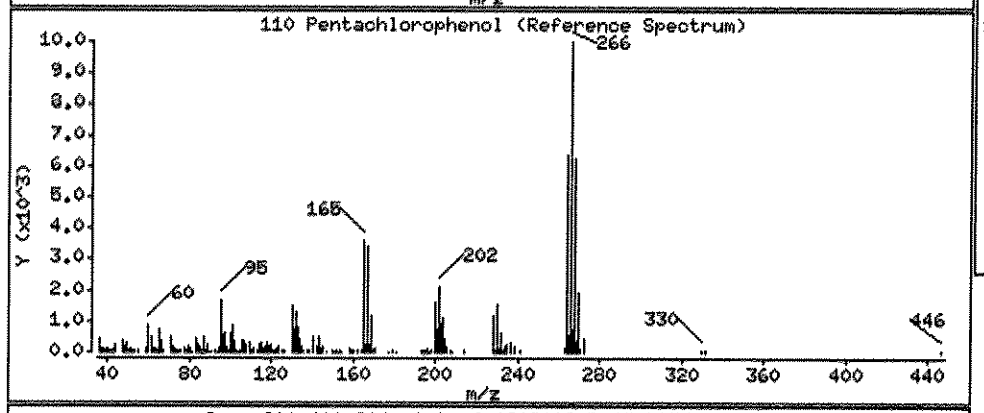
Volume Injected (uL): 1.0 Operator: HEC

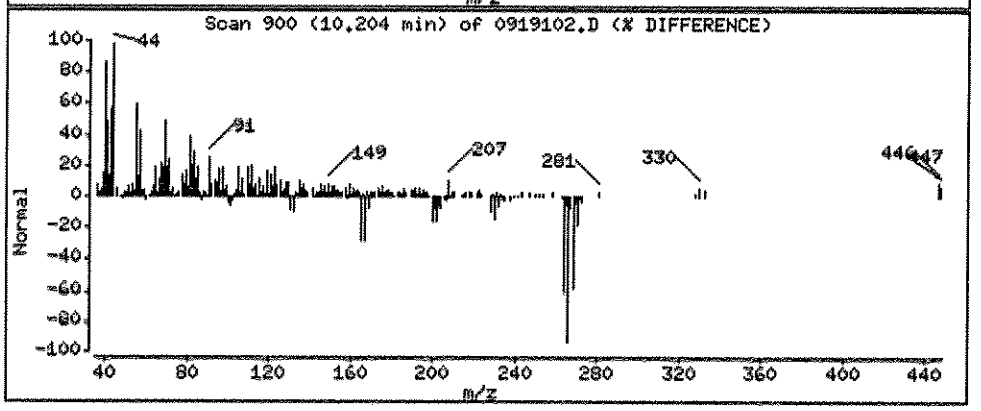
Column phase: fused silica Column diameter: 0.25

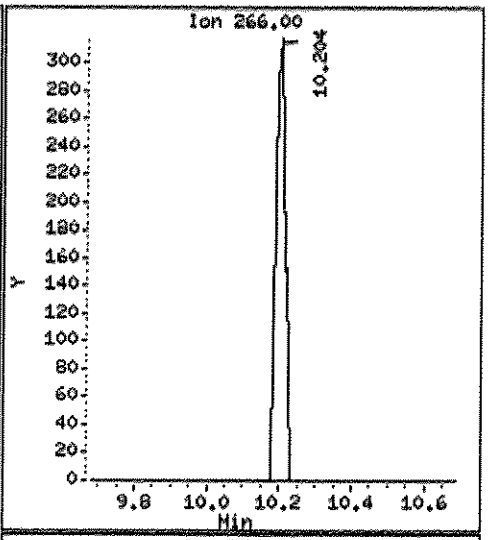
110 Pentachlorophenol Concentration: 76.00 UG/KG

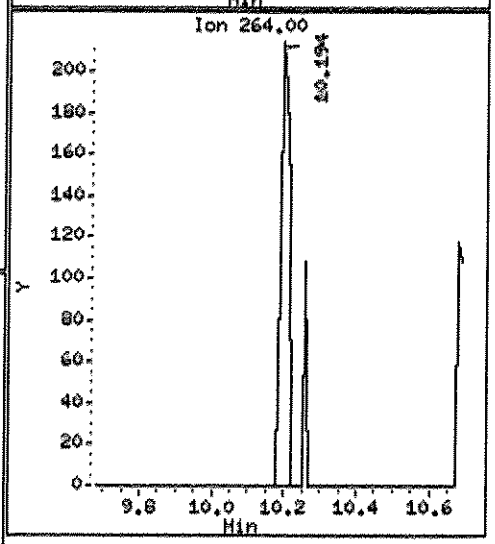












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Date : 23-OCT-2011 23:12

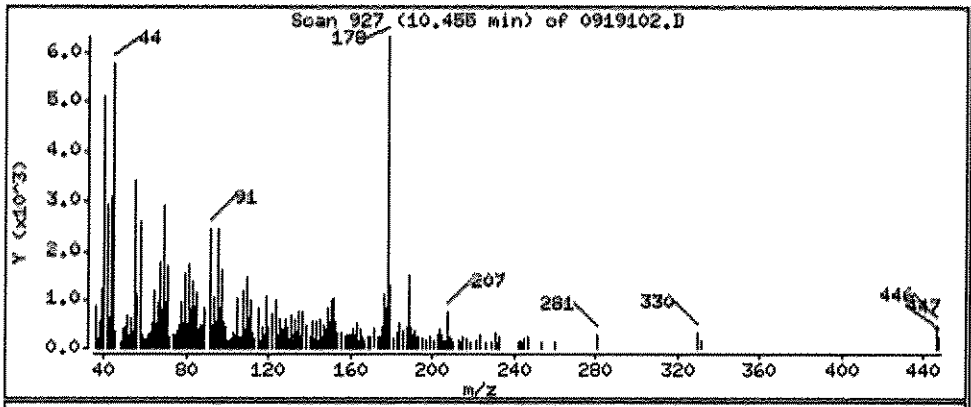
Client ID: FLC-4-SS01-0624-092 Instrument: bna4.i

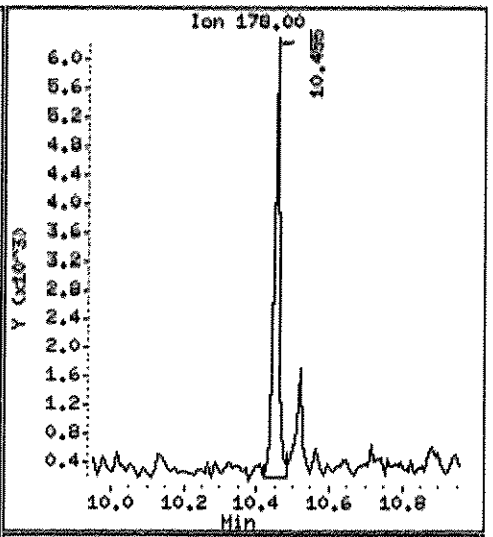
Sample Info: 1109191-02;1;15;1000;1;UG/KG;04-OCT-2011

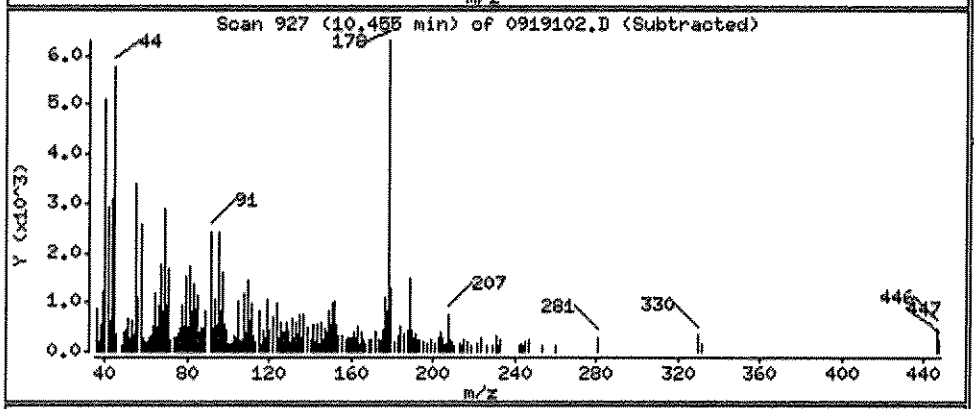
Volume Injected (uL): 1.0 Operator: HEC

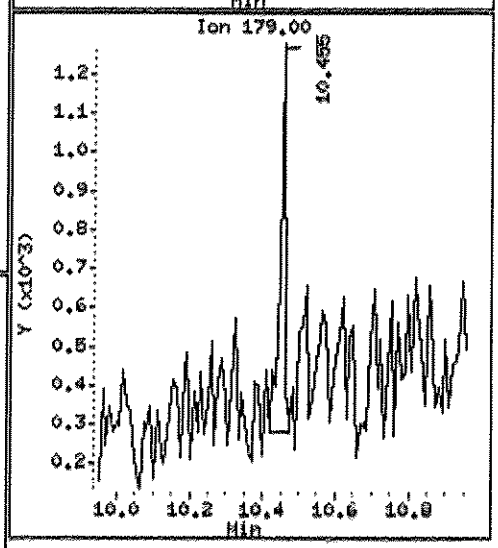
Column phase: fused silica Column diameter: 0.25

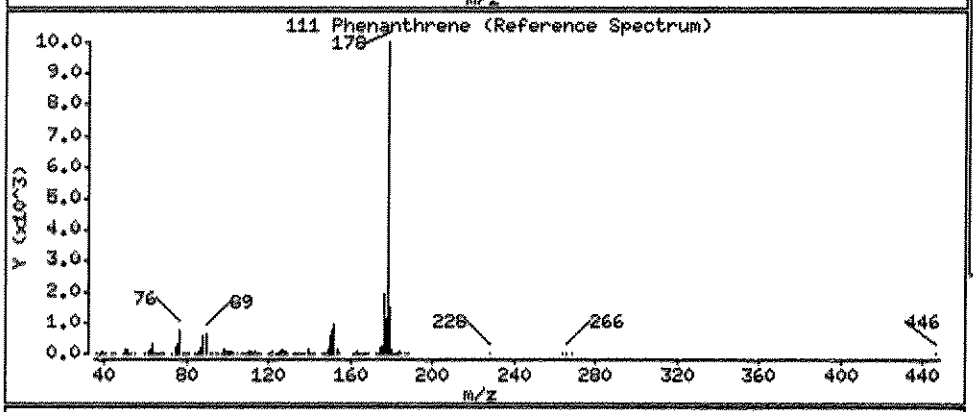
111 Phenanthrene Concentration: 2.239 UG/KG

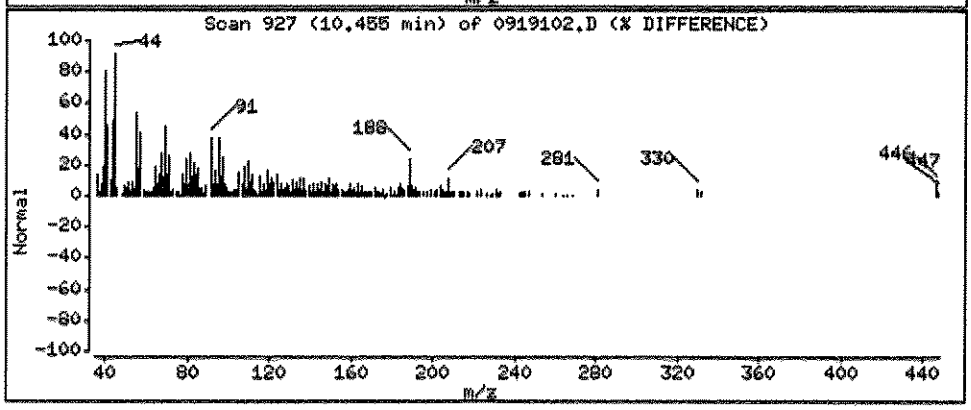












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Date : 23-OCT-2011 23:12

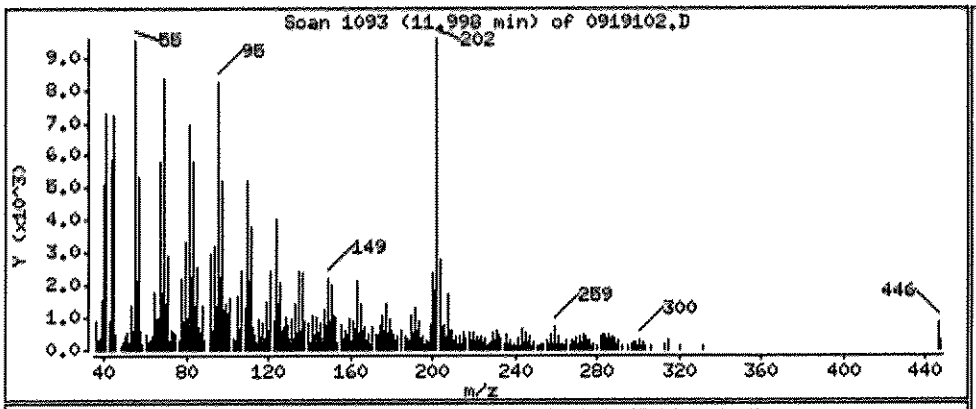
Client ID: FLC-4-SS01-0624-092 Instrument: bna4.i

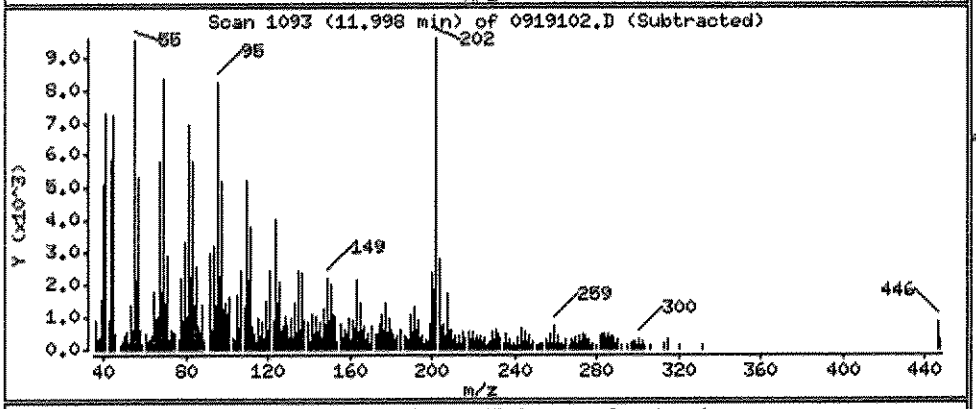
Sample Info: 1109191-02;1;1B;1000;1;UG/KG;04-OCT-2011

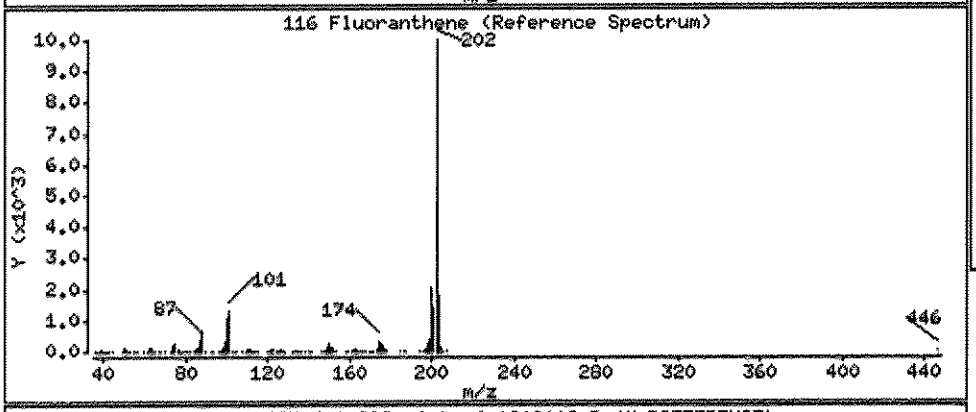
Volume Injected (uL): 1.0 Operator: HEC

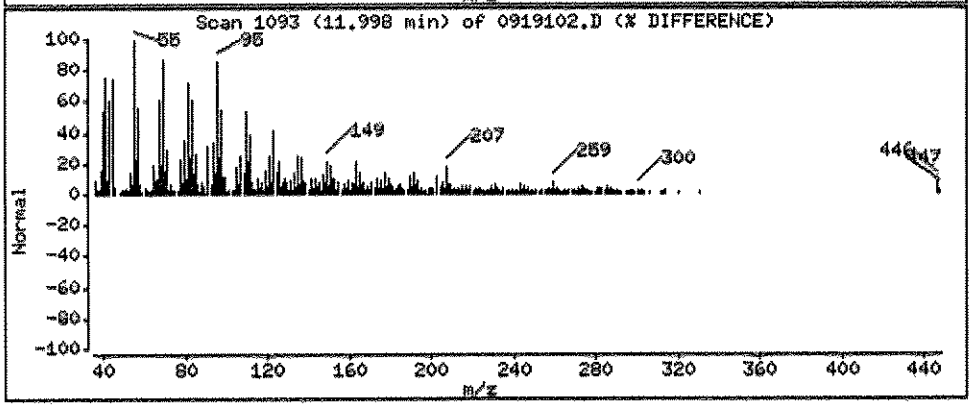
Column phase: fused silica Column diameter: 0.25

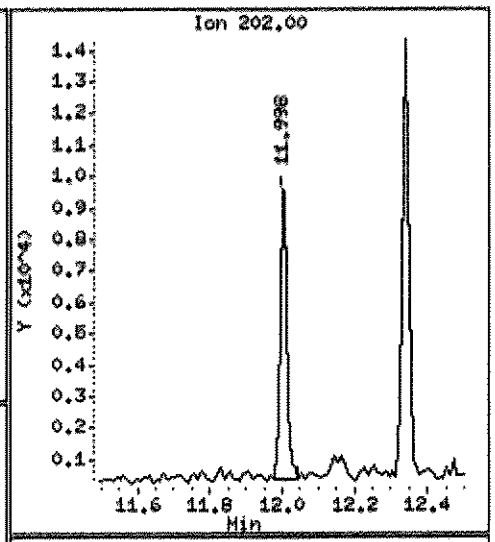
116 Fluoranthene Concentration: 4.750 UG/KG

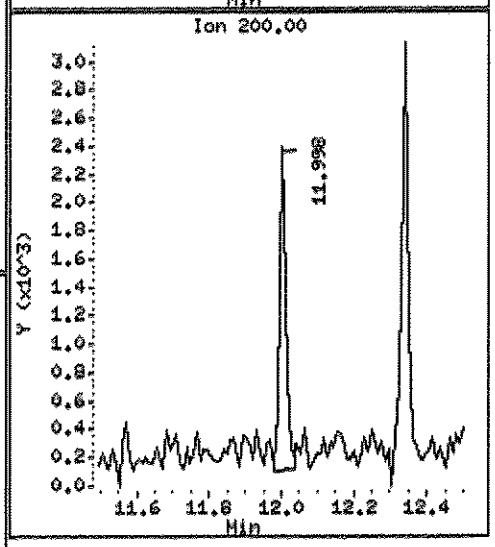












Data File: \\ELABNSHO5\TARGET\chem\bna4.i\102311B4E.b\0919102.D

Date : 23-OCT-2011 23:12

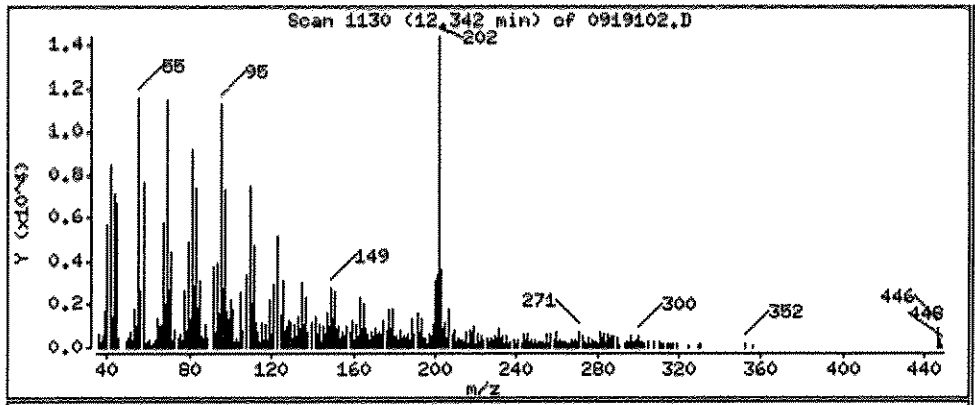
Client ID: FLC-4-SS01-0624-092 Instrument: bna4.i

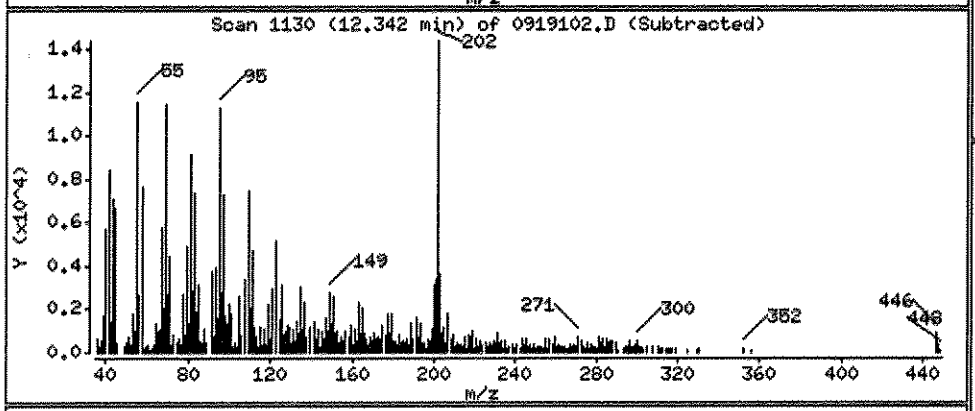
Sample Info: 1109191-02;1;15;1000;1;UG/KG;04-OCT-2011

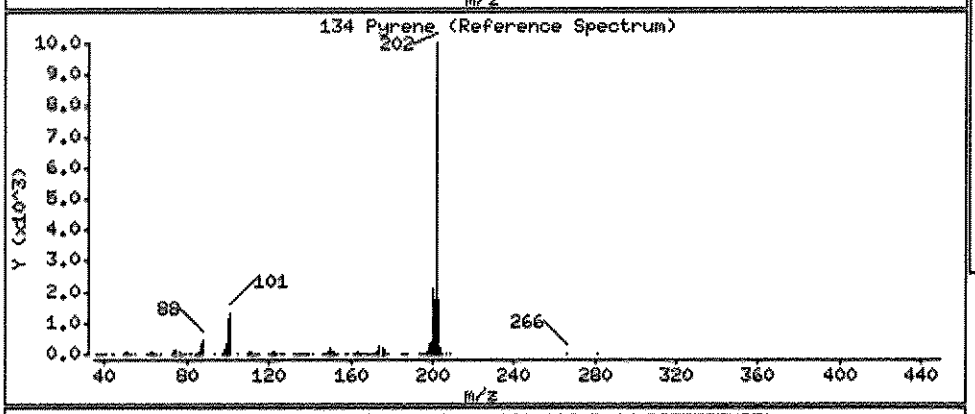
Volume Injected (uL): 1.0 Operator: HEC

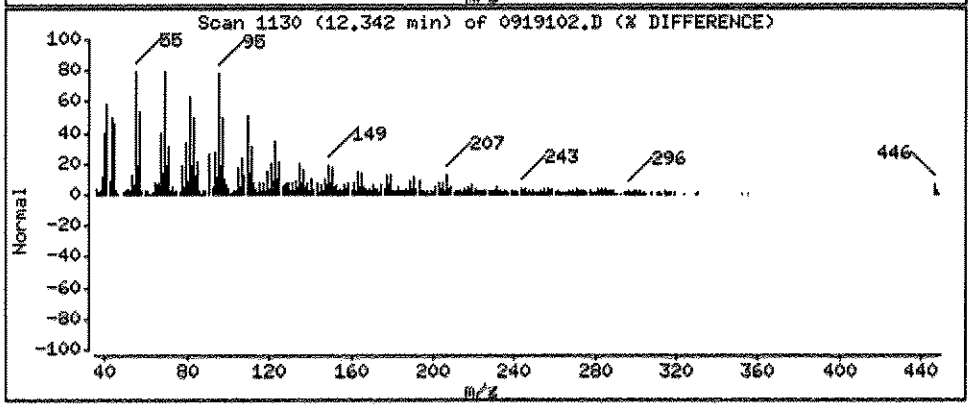
Column phase: fused silica Column diameter: 0.25

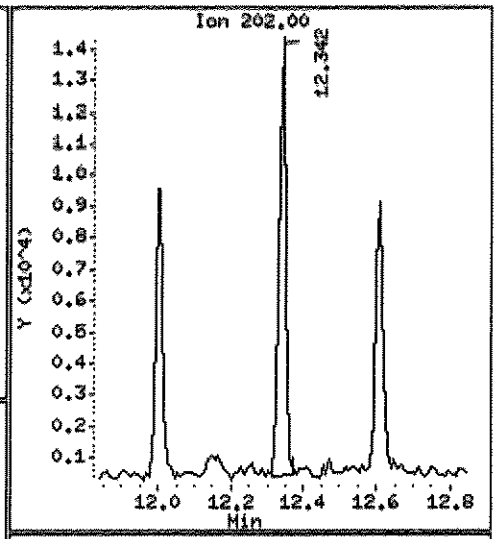
134 Pyrene Concentration: 6.629 UG/KG

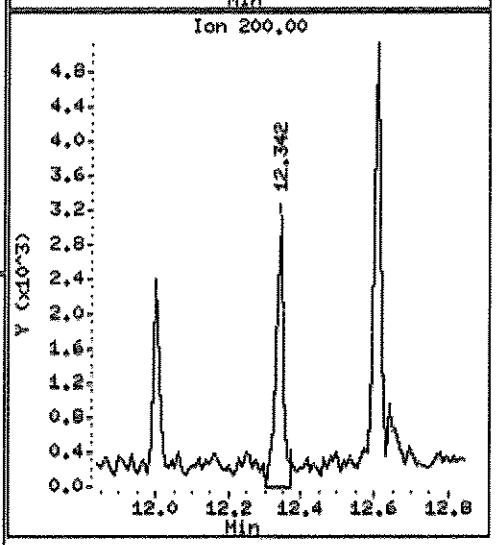












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Date : 23-OCT-2011 23:12

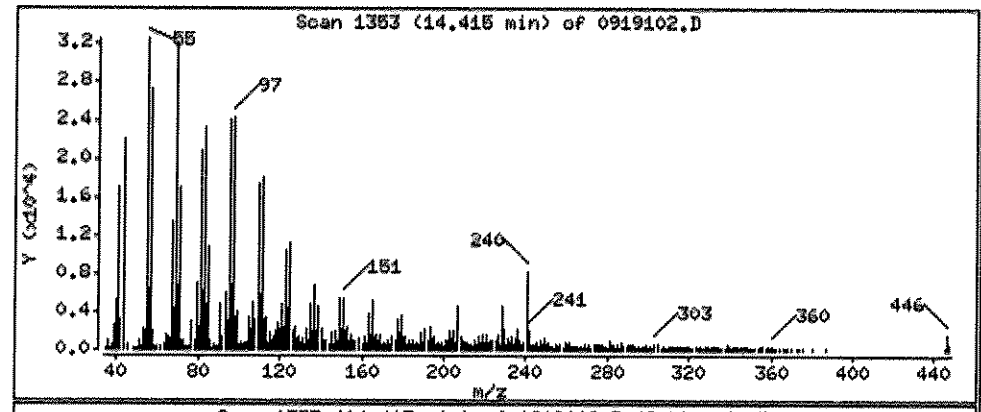
Client ID: FLC-4-SS01-0624-092 Instrument: bna4.i

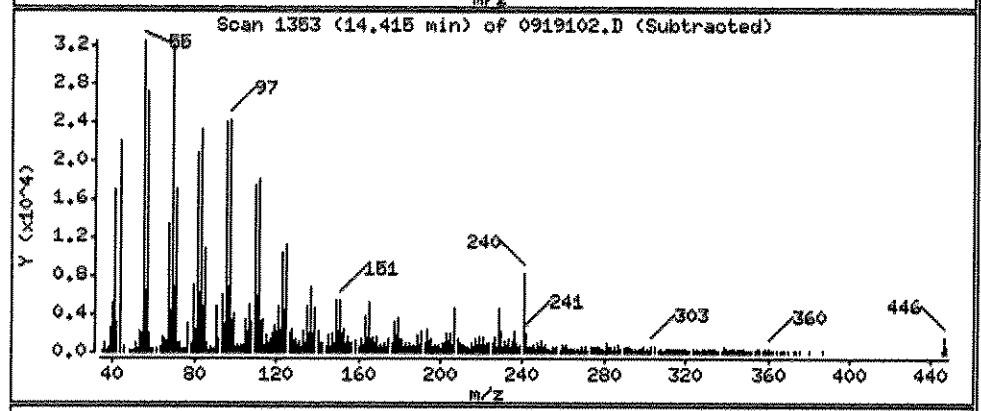
Sample Info: 1109191-02;1;15;1000;1;UG/KG;04-OCT-2011

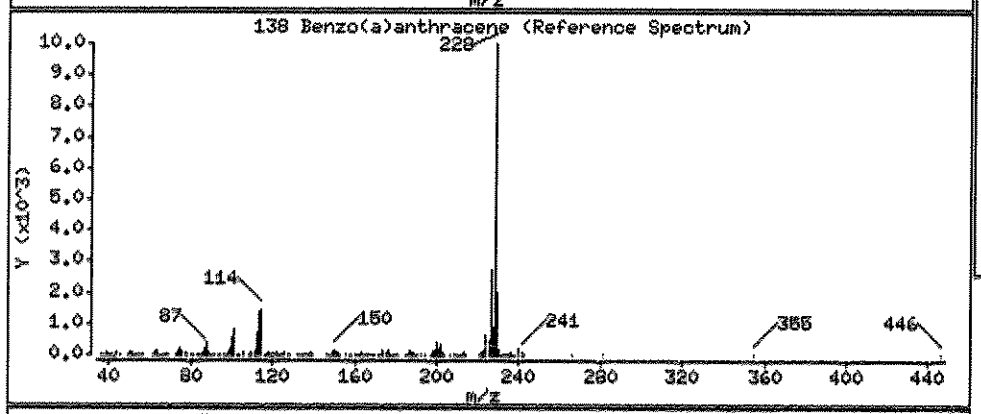
Volume Injected (uL): 1.0 Operator: HEC

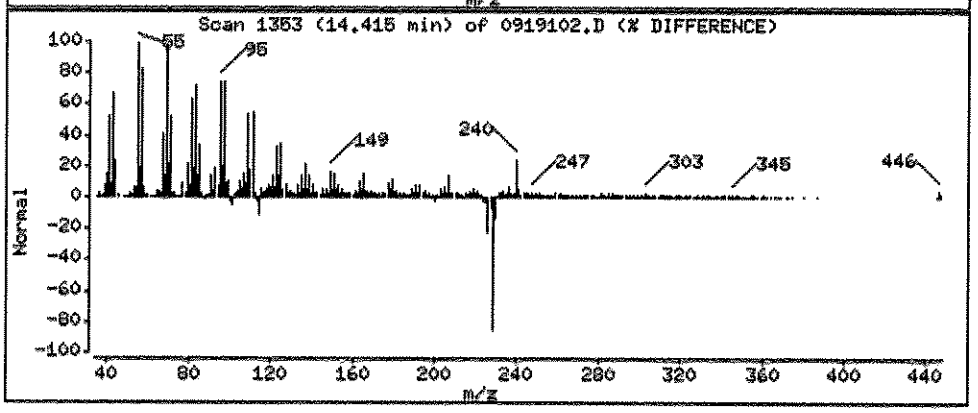
Column phase: fused silica Column diameter: 0.25

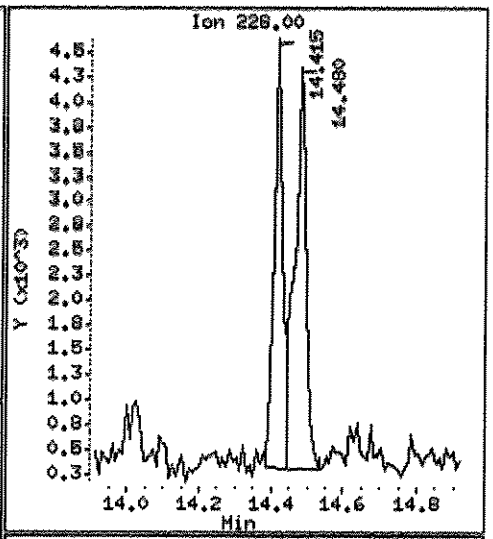
138 Benzo(a)anthracene Concentration: 4.382 UG/KG

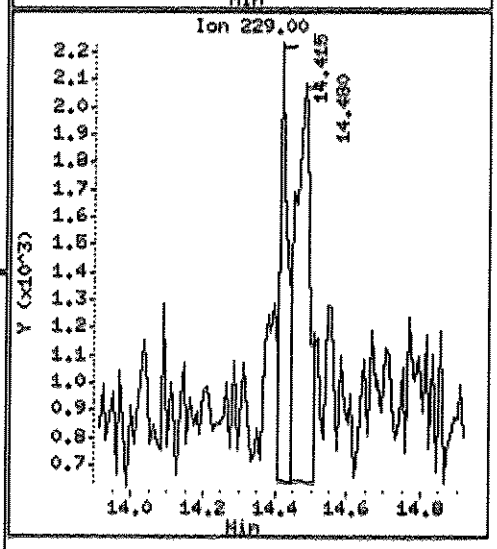












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Date : 23-OCT-2011 23:12

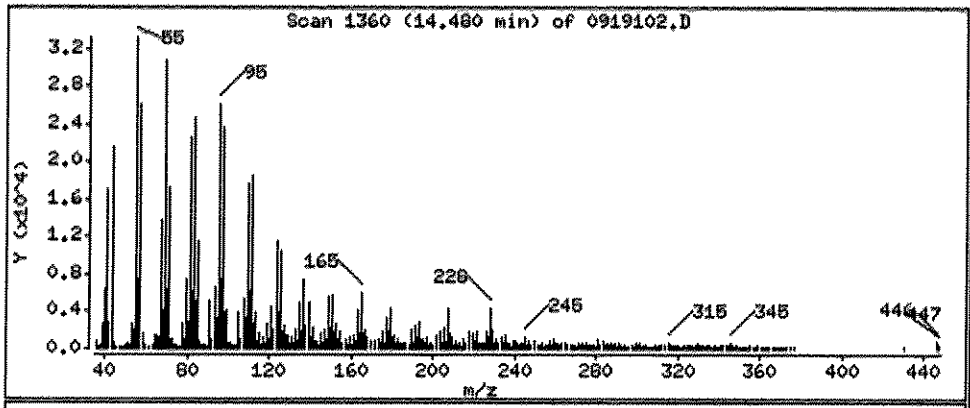
Client ID: FLC-4-SS01-0624-092 Instrument: bna4.i

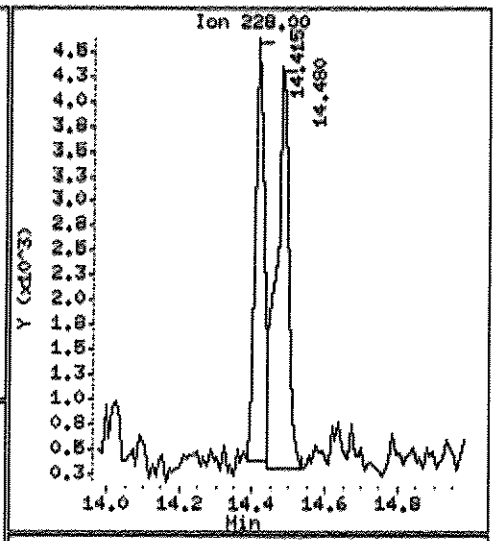
Sample Info: 1109191-02;1;15;1000;1;UG/KG;04-OCT-2011

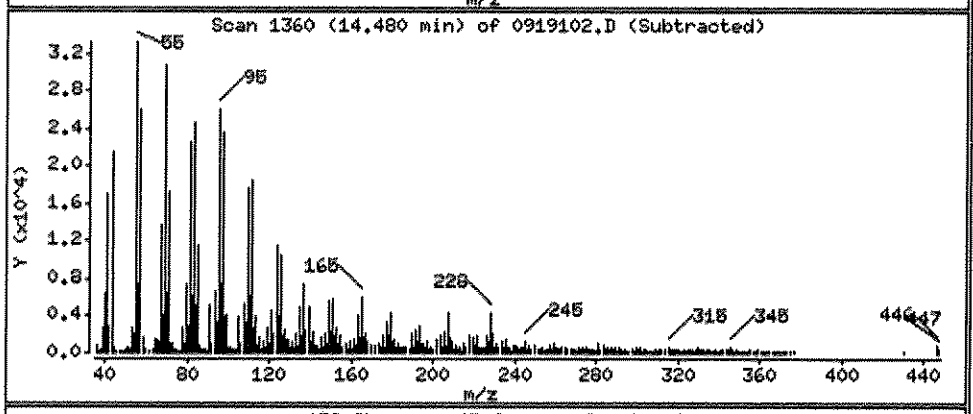
Volume Injected (uL): 1.0 Operator: HEC

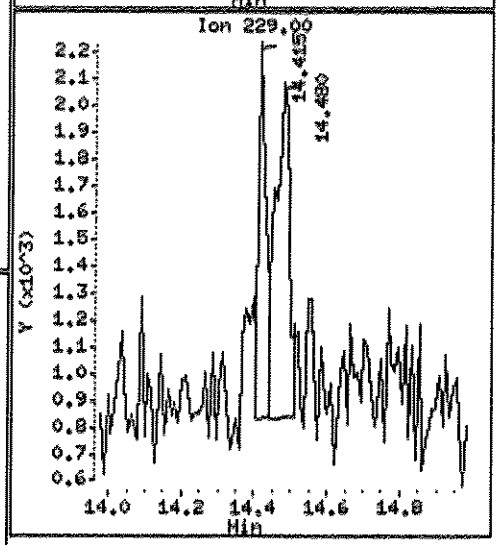
Column phase: fused silica Column diameter: 0.25

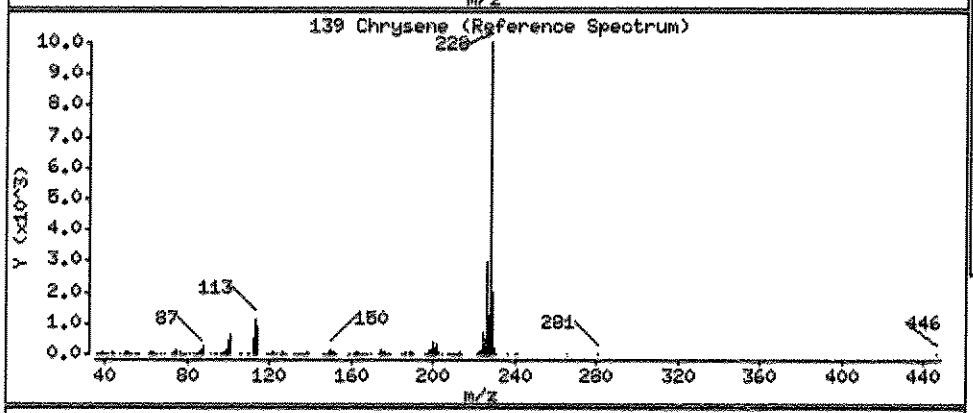
139 Chrysene Concentration: 6.595 UG/KG

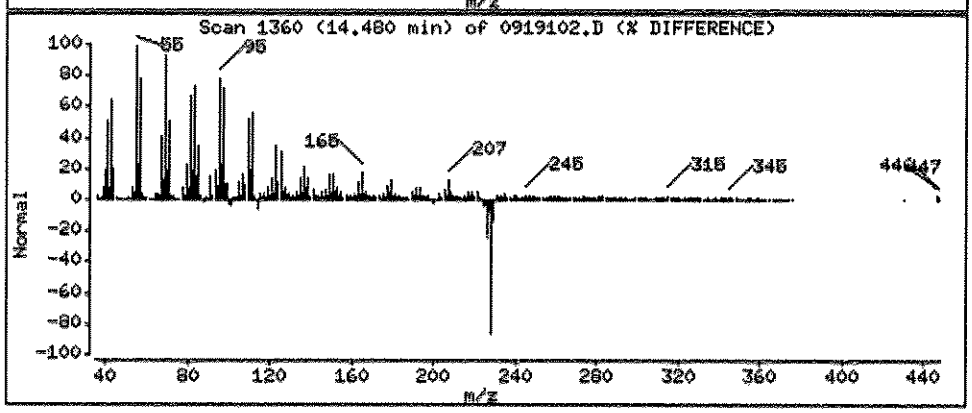












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Date : 23-OCT-2011 23:12

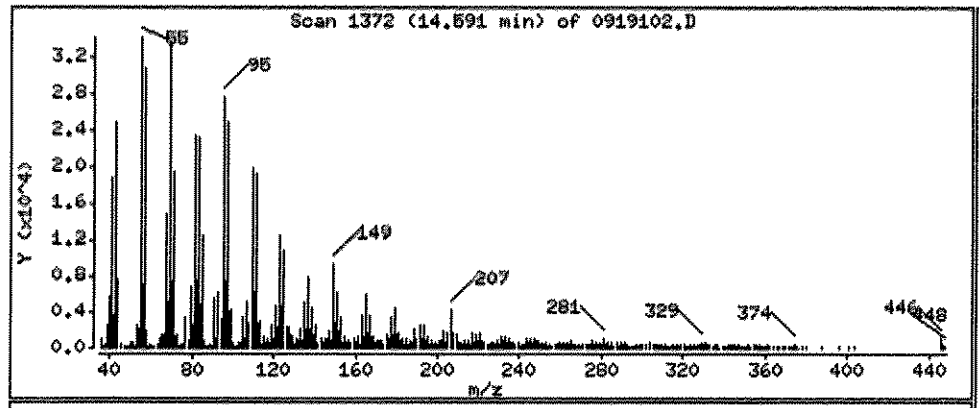
Client ID: FLC-4-SS01-0624-092 Instrument: bna4.i

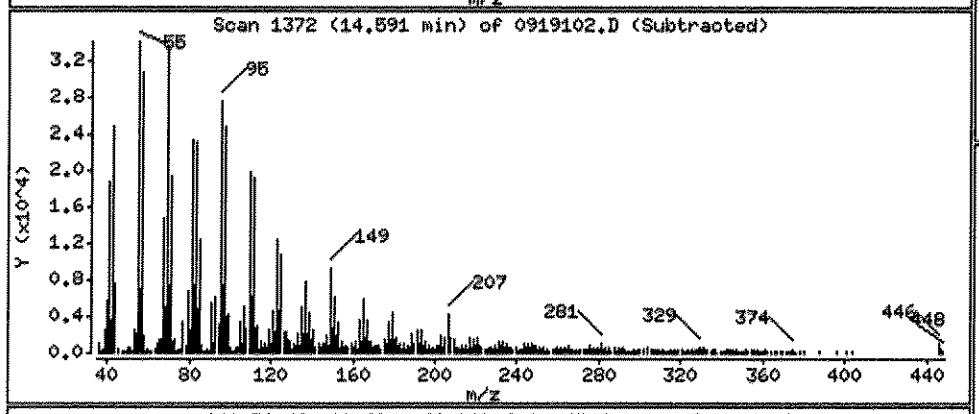
Sample Info: 1109191-02;1;15;1000;1;UG/KG;04-OCT-2011

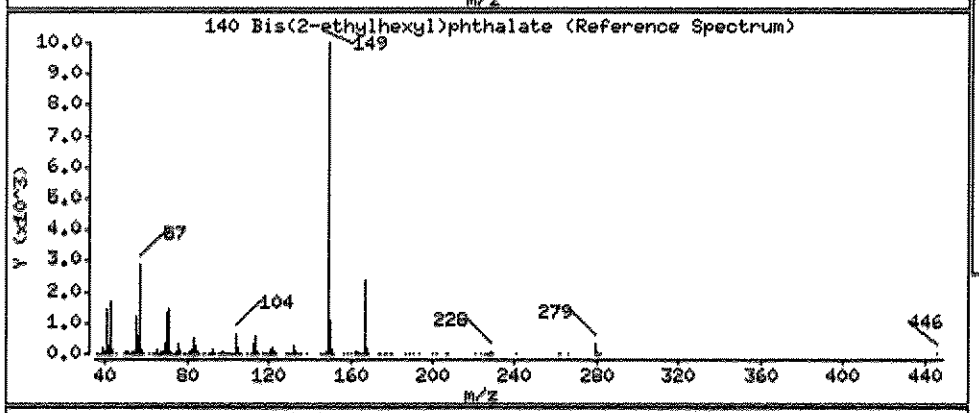
Volume Injected (uL): 1.0 Operator: MEC

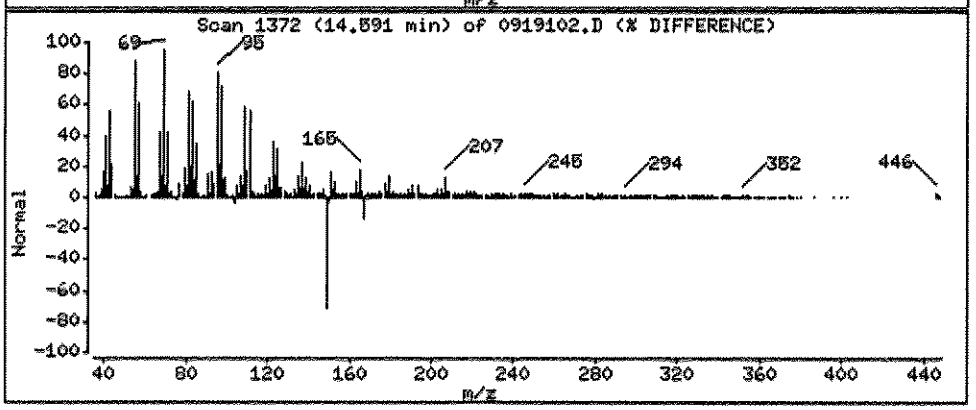
Column phase: fused silica Column diameter: 0.25

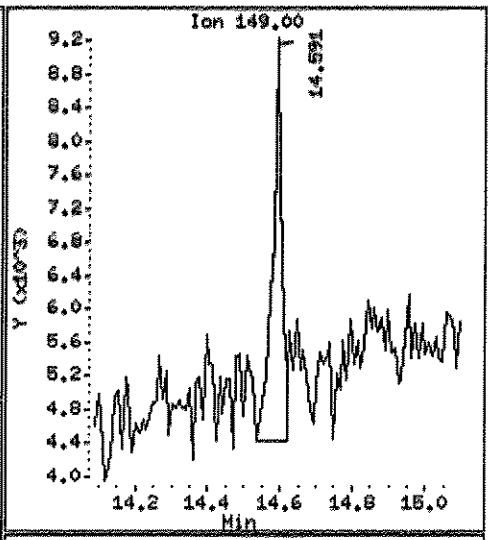
140 Bis(2-ethylhexyl)phthalate Concentration: 6.534 UG/KG

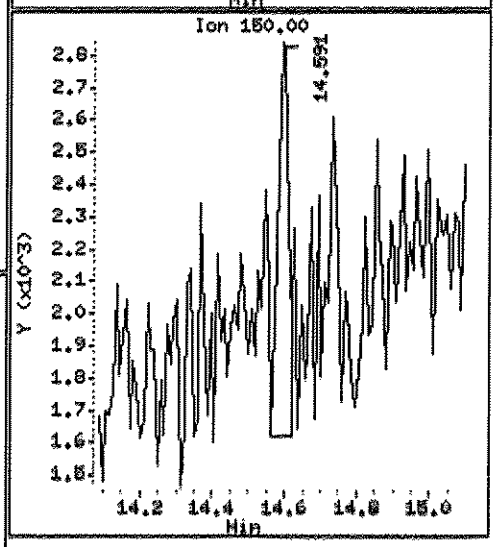












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Date : 23-OCT-2011 23:12

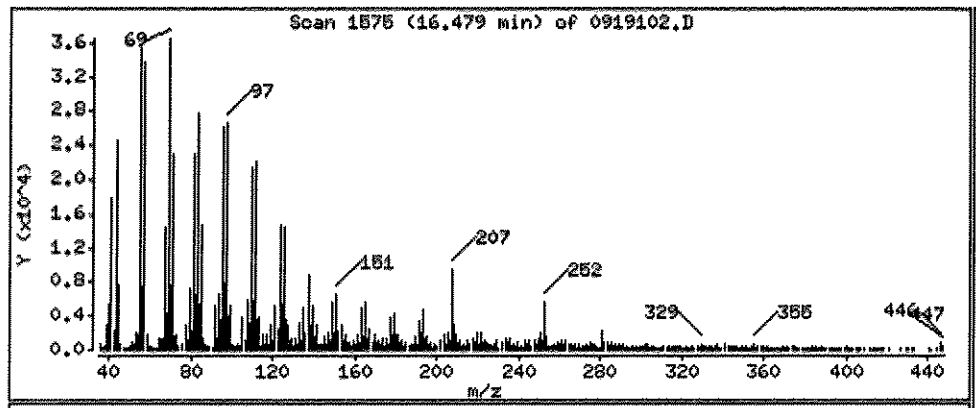
Client ID: FLC-4-SS01-0624-092 Instrument: bna4.i

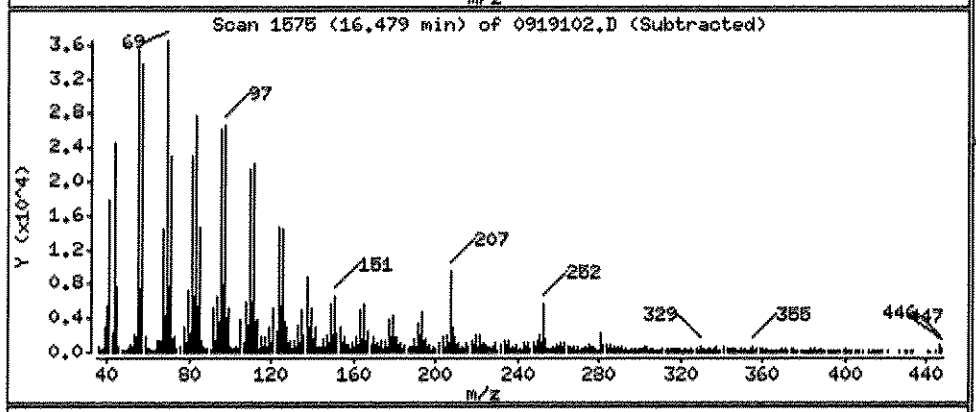
Sample Info: 1109191-02;1;15;1000;1;UG/KG;04-OCT-2011

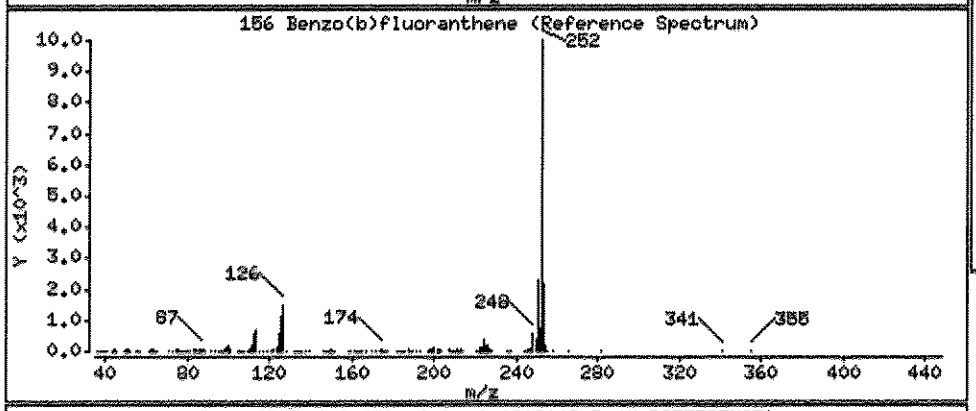
Volume Injected (uL): 1.0 Operator: MEC

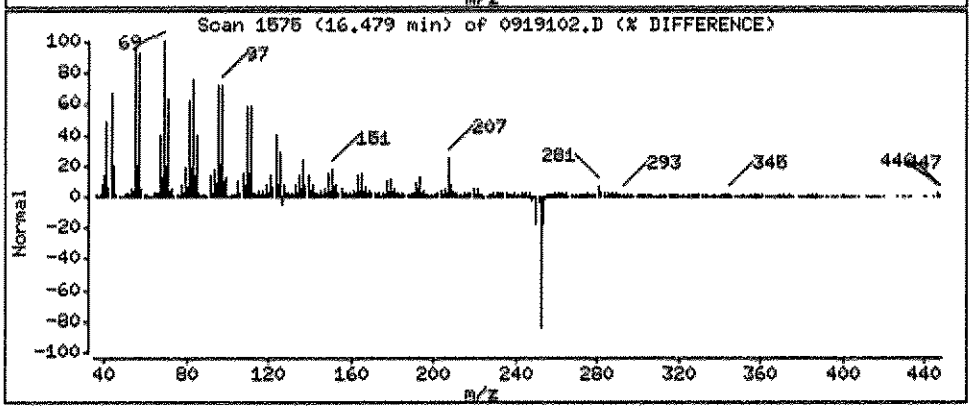
Column phase: fused silica Column diameter: 0.25

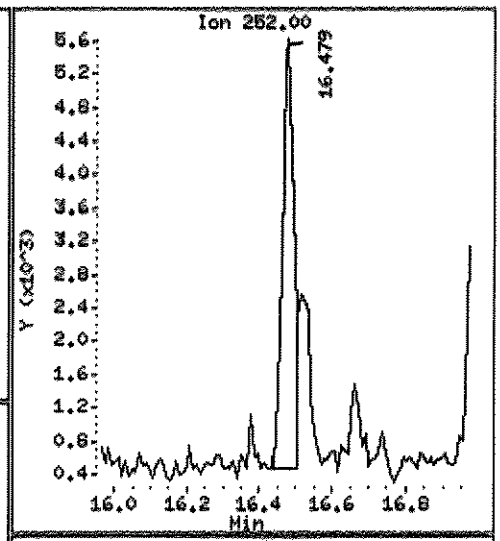
156 Benzo(b)fluoranthene Concentration: 11.04 UG/KG

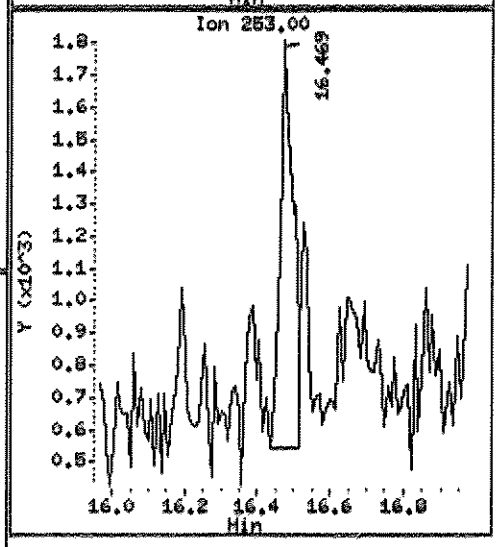












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Date : 23-OCT-2011 23:12

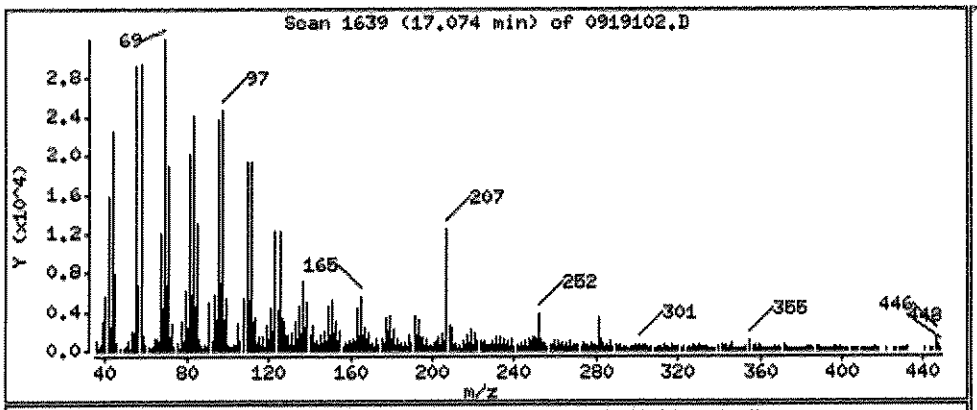
Client ID: FLC-4-SS01-0624-092 Instrument: bna4.i

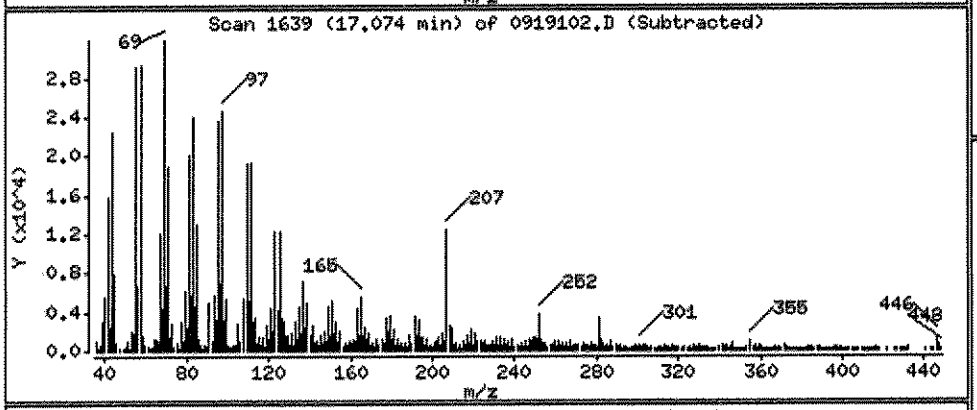
Sample Info: 1109191-02;1;15;1000;1;UG/KG;04-OCT-2011

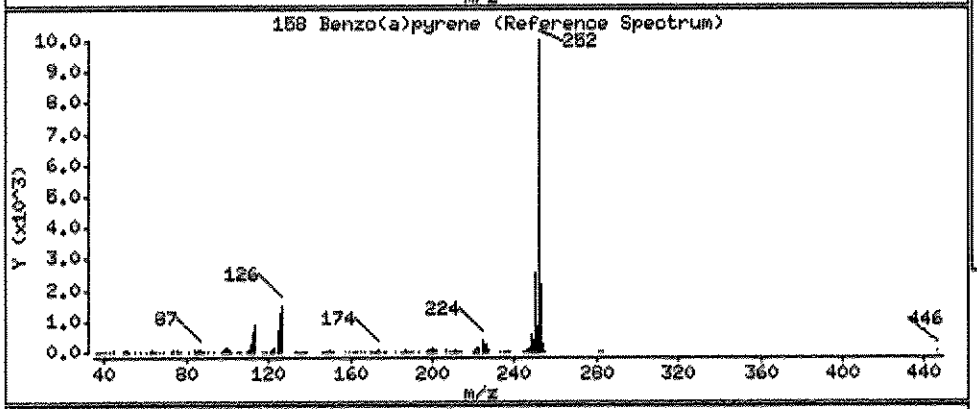
Volume Injected (uL): 1.0 Operator: HEC

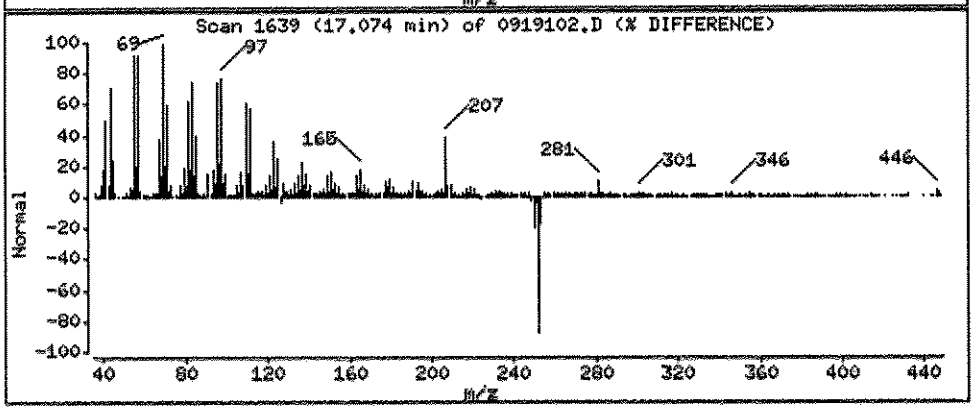
Column phase: fused silica Column diameter: 0.25

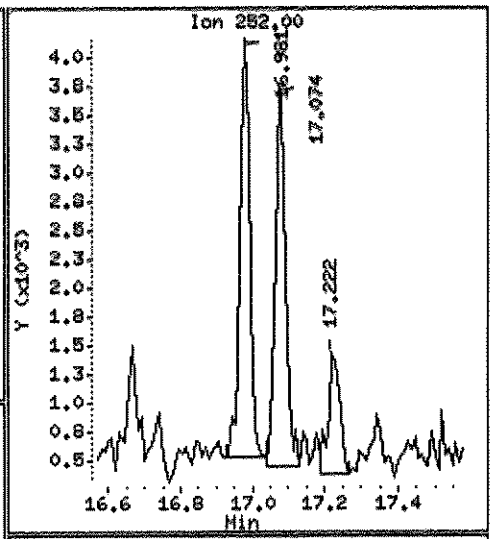
158 Benzo(a)pyrene Concentration: 7.291 UG/KG

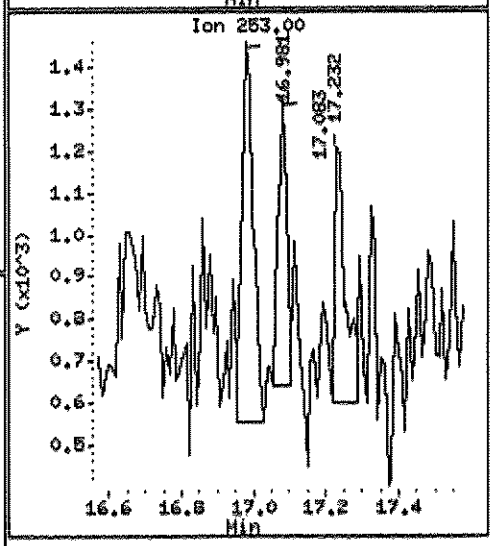












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Date : 23-OCT-2011 23:12

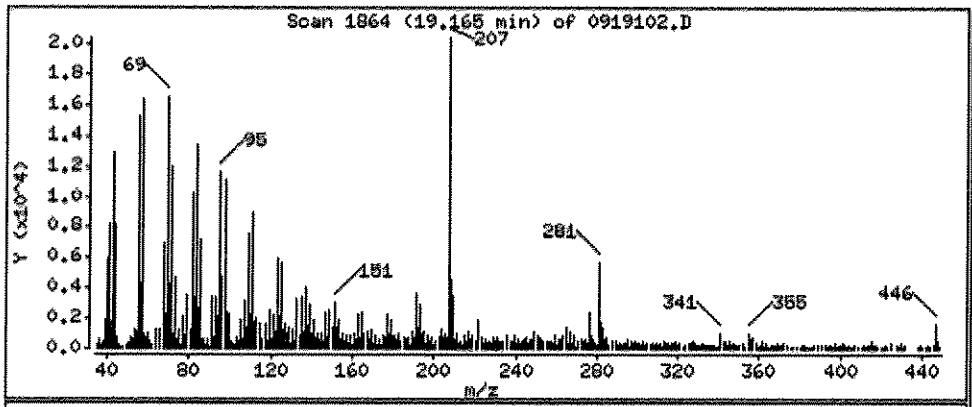
Client ID: FLC-4-SS01-0624-092 Instrument: bna4.i

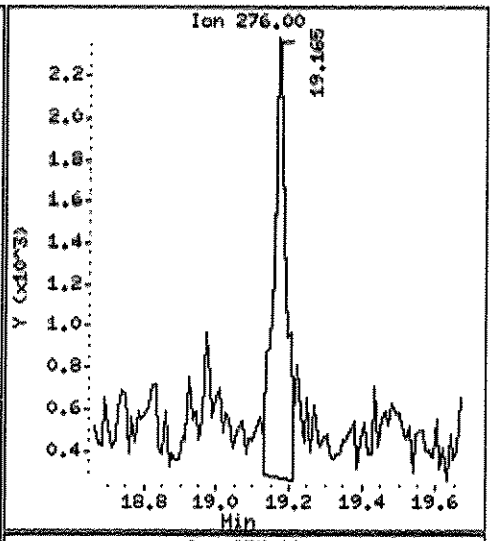
Sample Info: 1109191-02;1;15;1000;1;UG/KG;04-OCT-2011

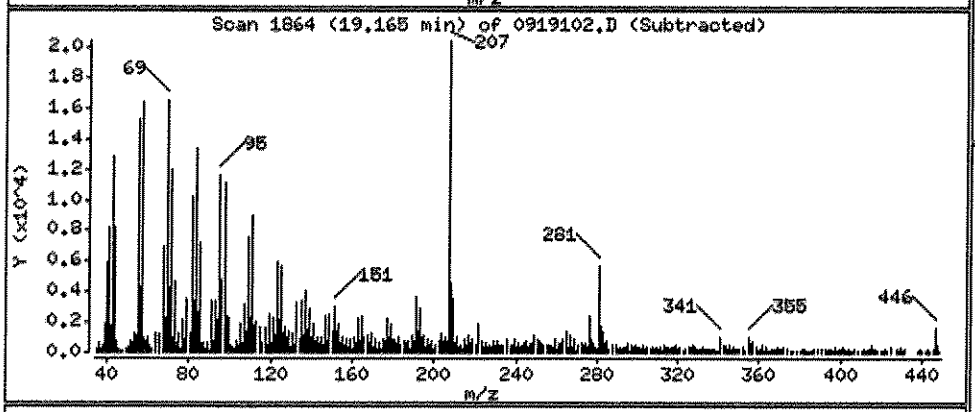
Volume Injected (uL): 1.0 Operator: HEC

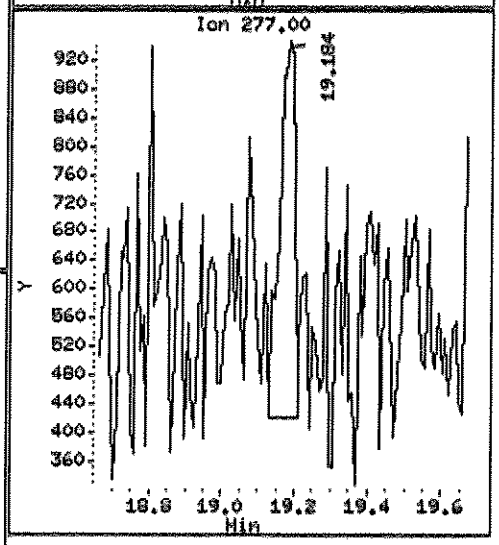
Column phase: fused silica Column diameter: 0.25

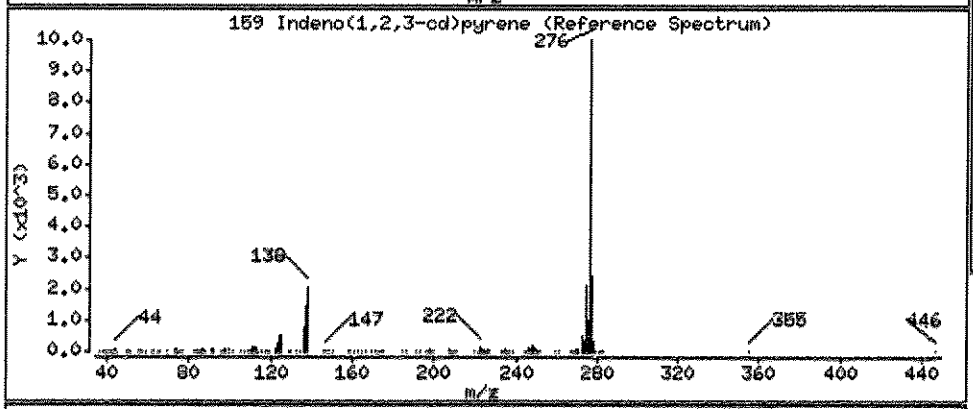
159 Indeno(1,2,3-cd)pyrene Concentration: 7.994 UG/KG

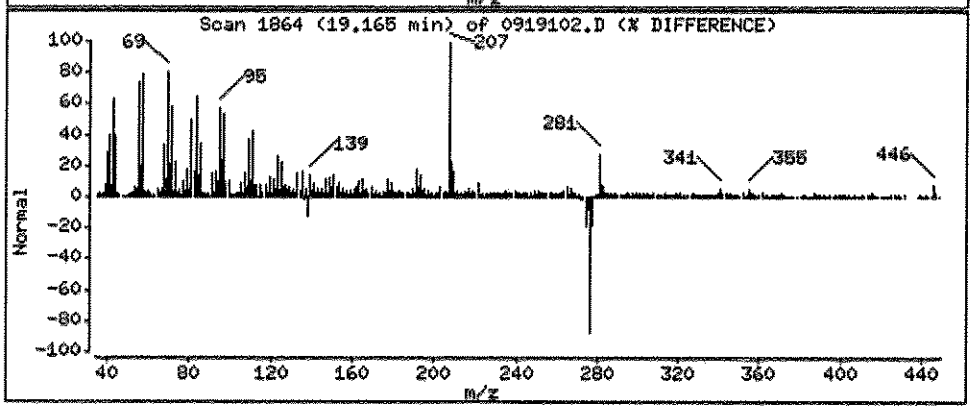












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Date : 23-OCT-2011 23:12

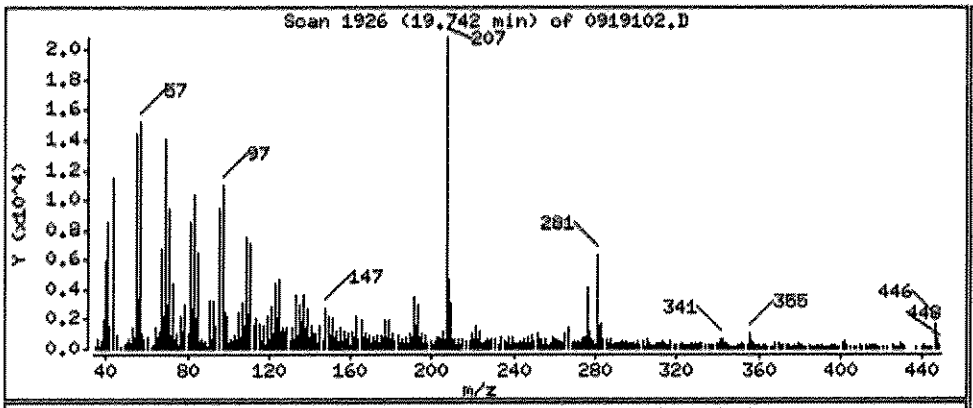
Client ID: FLC-4-SS01-0624-092 Instrument: bna4.i

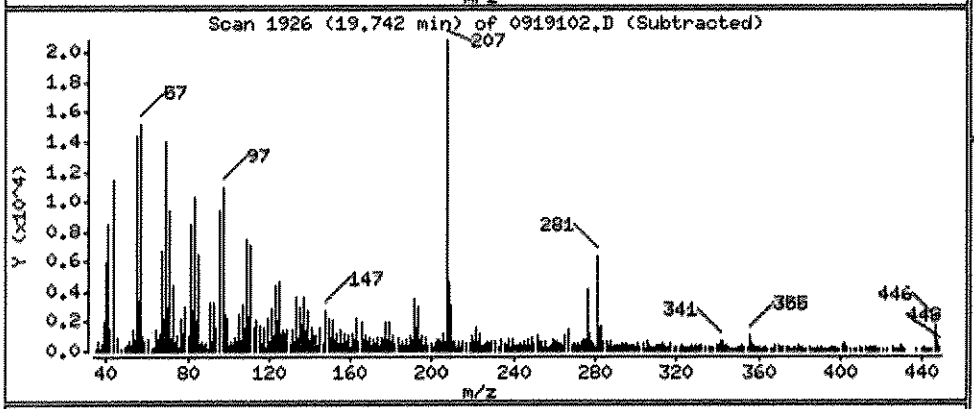
Sample Info: 1109191-02;1;15;1000;1;UG/KG;04-OCT-2011

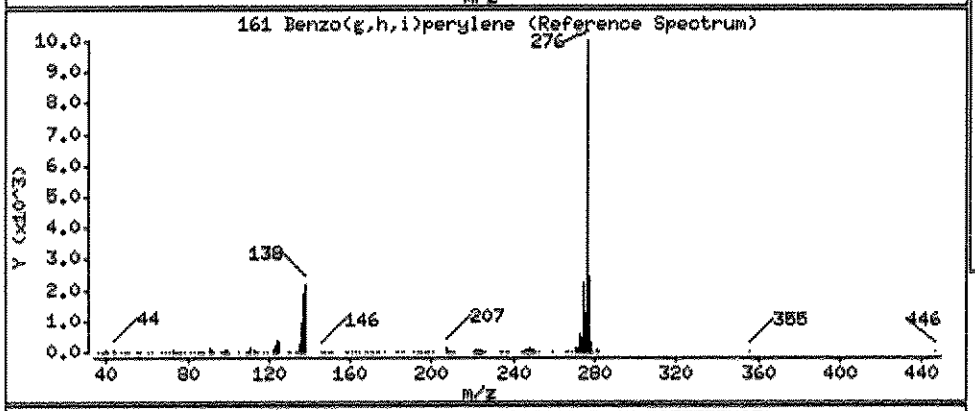
Volume Injected (uL): 1.0 Operator: HEC

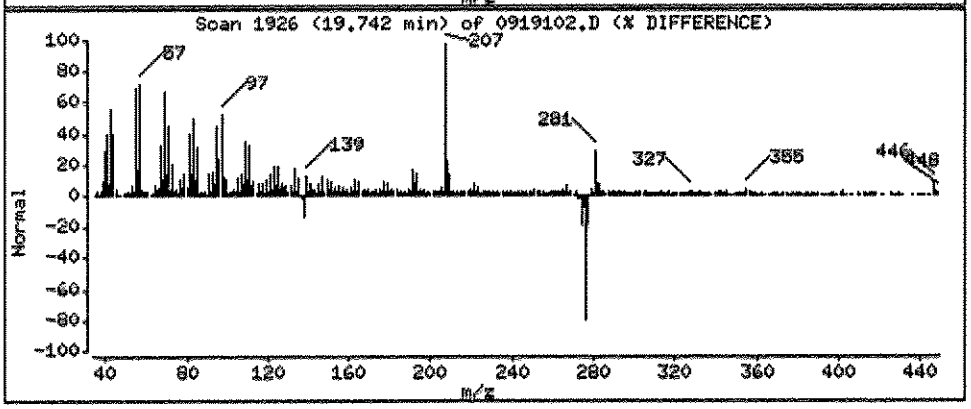
Column phase: fused silica Column diameter: 0.25

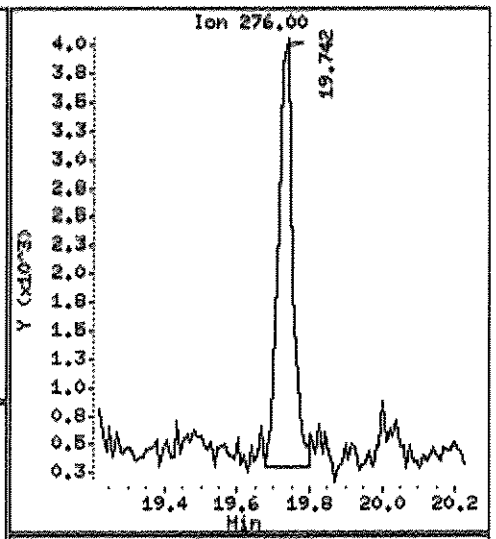
161 Benzo(g,h,i)perylene Concentration: 15.67 UG/KG

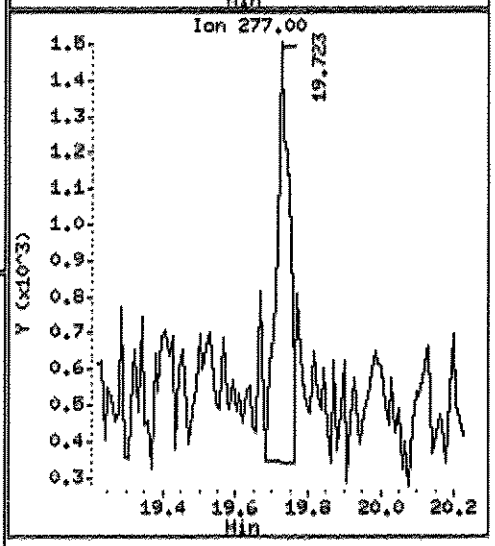












Data File: \\ELABNSH05\TARGET\chem\bna4.i\102311B4E.b\0919102M.D
Report Date: 25-Oct-2011 18:07

Laboratory Name

Data file : \\ELABNSH05\TARGET\chem\bna4.i\102311B4E.b\0919102M.D
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Inj Date : 23-OCT-2011 23:42 MS Autotune Date: 23-OCT-2011 10:06
Operator : MEC Inst ID: bna4.i
Smp Info : 1J03009-MS2;1;15;1000;1;UG/KG;04-OCT-2011
Misc Info : ;3;MS;;;1J03009;pahmisc.sub;
Comment :
Method : \\ELABNSH05\TARGET\chem\bna4.i\102311B4E.b\IXBN4LOW.m
Meth Date : 25-Oct-2011 18:04 mcobb Quant Type: ISTD
Cal Date : 24-AUG-2011 18:33 Cal File: SEQ-CAL9.D
Als bottle: 26 QC Sample: MS
Dil Factor: 1.00000
Integrator: HP RTE Compound Sublist: pahmisc.sub
Target Version: 4.04
Processing Host: TARGET09_VM

Concentration Formula: Amt * DF * Uf * Vt*Vi/(Amt * Vi * (Solids/100))

Name	Value	Description
DF	1.000	Dilution Factor
Uf	1.000	ng unit correction factor
Vt	1000.000	Volume of final extract (uL)(1000 low, 2
Amt	15.000	Mass of initial extraction
Vi	1.000	Volume injected (uL)
Solids	100.000	Percent Solids

10-27-11

Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS ON-COLUMN (ng/ul)	FINAL (UG/KG)
* 102 Phenanthrene-d10	188	10.426	10.417	(1.000)	169729	1.00000	
4 1,4-Dioxane	88	2.115	2.106	(0.203)	548045	15.0307	1008
21 N-Nitroso-di-n-propylamine	70	5.443	5.443	(0.522)	1400850	22.8192	1521
39 Isophorone	82	5.917	5.918	(0.568)	3284108	19.7591	1317(R)
51 Naphthalene	128	6.484	6.485	(0.622)	5686015	22.5063	1500
53 Hexachlorobutadiene	225	6.624	6.624	(0.635)	1204947	25.5852	1706
55 2-Methylnaphthalene	142	7.321	7.321	(0.702)	3753179	24.7977	1653
56 1-Methylnaphthalene	142	7.442	7.433	(0.714)	3368327	22.9551	1530
70 Hexachlorocyclopentadiene	237	7.498	7.498	(0.719)	493007	10.6436	709.6
$ 74 2-Fluorobiphenyl	172	7.767	7.768	(0.745)	4125938	25.7260	1715
77 Acenaphthylene	152	8.418	8.418	(0.807)	5004607	22.7632	1518
80 Acenaphthene	153	8.632	8.632	(0.828)	3684017	24.4397	1629
84 Dibenzofuran	168	8.846	8.846	(0.848)	4947868	27.2117	1814

10/27/11

Data File: \\ELABNSH05\TARGET\chem\bna4.i\102311B4E.b\0919102M.D
Report Date: 25-Oct-2011 18:07

Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS ON-COLUMN (ng/ul)	FINAL (UG/KG)
88 Fluorene	166	9.273	9.264	(0.889)	3899844	27.1283	1806
104 Carbazole	167	10.724	10.724	(1.029)	4239037	31.3920	2093
110 Pentachlorophenol	266	10.184	10.185	(0.977)	570484	21.0365	1402
$ 107 2,4,6-Tribromophenol	330	9.571	9.562	(0.918)	1695361	57.6961	3846
111 Phenanthrene	178	10.454	10.454	(1.003)	5414488	27.4144	1828
109 Hexachlorobenzene	284	9.933	9.934	(0.953)	1651324	27.1685	1811
112 Anthracene	178	10.519	10.519	(1.009)	5280846	27.2794	1819(R)
116 Fluoranthene	202	12.006	11.997	(1.152)	5141521	27.6436	1843
134 Pyrene	202	12.341	12.341	(1.184)	5027362	26.6270	1775
* 154 Perylene-d12	264	17.185	17.175	(1.000)	61808	1.00000	
$ 135 Terphenyl-d14	244	12.611	12.602	(1.210)	3606961	33.5065	2234
138 Benzo(a)anthracene	228	14.423	14.414	(1.383)	3383569	28.5988	1906
139 Chrysene	228	14.489	14.480	(1.390)	3166179	26.5775	1772(R)
140 Bis(2-ethylhexyl)phthalate	149	14.591	14.591	(0.849)	3944673	38.6527	2577
155 Di-n-octylphthalate	149	15.892	15.893	(0.925)	5185955	36.7532	2450
156 Benzo(b)fluoranthene	252	16.478	16.469	(0.959)	2501755	30.3176	2021
157 Benzo(k)fluoranthene	252	16.534	16.525	(0.962)	2447992	29.3135	1954
158 Benzo(a)pyrene	252	17.082	17.073	(0.994)	1896917	27.2713	1818
159 Indeno(1,2,3-cd)pyrene	276	19.174	19.165	(1.116)	1569351	31.4515	2097
160 Dibenz(a,h)anthracene	278	19.239	19.230	(1.120)	1624165	33.1724	2211
161 Benzo(g,h,i)perylene	276	19.741	19.723	(1.149)	1603806	31.7860	2119

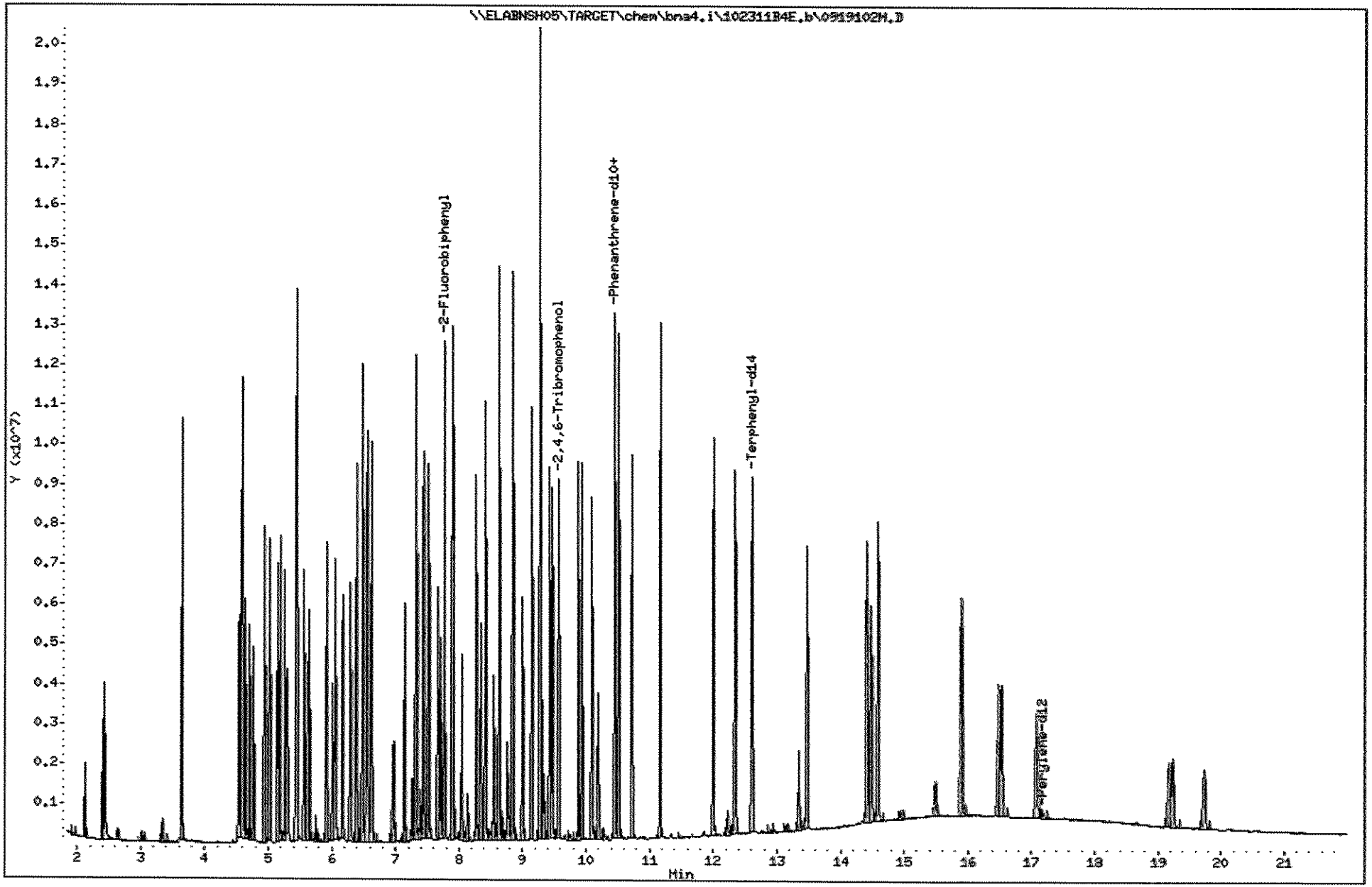
QC Flag Legend

R - Spike/Surrogate failed recovery limits.

Data File: \\ELABNSH05\TARGET\chem\bna4.i\102311B4E.b\0919102M.D
Date : 23-OCT-2011 23:42
Client ID: 1J03009-MS2
Sample Info: 1J03009-MS2;1;15;1000;1;UG/KG;04-OCT-2011
Volume Injected (uL): 1.0
Column phase: fused silica

Instrument: bna4.i

Operator: MEC
Column diameter: 0.25



1026

1109191

Data File: \\ELABNSH05\TARGET\chem\bna4.i\102311B4E.b\0919102S.D
Report Date: 25-Oct-2011 18:07

Laboratory Name

Data file : \\ELABNSH05\TARGET\chem\bna4.i\102311B4E.b\0919102S.D
Lab Smp Id: 1J03009-MSD2 Client Smp ID: 1J03009-MSD2
Inj Date : 24-OCT-2011 00:12 MS Autotune Date: 23-OCT-2011 10:06
Operator : MEC Inst ID: bna4.i
Smp Info : 1J03009-MSD2;1;15;1000;1;UG/KG;04-OCT-2011
Misc Info : ;3;MSD;;;1J03009;pahmisc.sub;
Comment :
Method : \\ELABNSH05\TARGET\chem\bna4.i\102311B4E.b\IXBN4LOW.m
Meth Date : 25-Oct-2011 18:04 mcobb Quant Type: ISTD
Cal Date : 24-AUG-2011 18:33 Cal File: SEQ-CAL9.D
Als bottle: 27 QC Sample: MSD
Dil Factor: 1.00000
Integrator: HP RTE Compound Sublist: pahmisc.sub
Target Version: 4.04
Processing Host: TARGET09_VM

Concentration Formula: Amt * DF * Uf * Vt*Vi/(Amt * Vi * (Solids/100))

Name	Value	Description
DF	1.000	Dilution Factor
Uf	1.000	ng unit correction factor
Vt	1000.000	Volume of final extract (uL)(1000 low, 2
Amt	15.000	Mass of initial extraction
Vi	1.000	Volume injected (uL)
Solids	100.000	Percent Solids

10-27-11

Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS ON-COLUMN (ng/ul)	FINAL (UG/KG)
* 102 Phenanthrene-d10	188	10.426	10.417	(1.000)	119563	1.00000	
4 1,4-Dioxane	88	2.115	2.106	(0.203)	686679	26.7348	1782
21 N-Nitroso-di-n-propylamine	70	5.453	5.443	(0.523)	1822788	42.1507	2810
39 Isophorone	82	5.917	5.918	(0.568)	4020977	34.3433	2290
51 Naphthalene	128	6.484	6.485	(0.622)	6940502	38.9983	2600
53 Hexachlorobutadiene	225	6.624	6.624	(0.635)	1508107	45.4582	3030
55 2-Methylnaphthalene	142	7.321	7.321	(0.702)	4457011	41.8038	2787
56 1-Methylnaphthalene	142	7.442	7.433	(0.714)	3829405	37.0472	2470
70 Hexachlorocyclopentadiene	237	7.498	7.498	(0.719)	659649	19.9022	1327
$ 74 2-Fluorobiphenyl	172	7.767	7.768	(0.745)	4811317	42.5866	2839
77 Acenaphthylene	152	8.418	8.418	(0.807)	5154209	33.2802	2219
80 Acenaphthene	153	8.632	8.632	(0.828)	3722979	35.0610	2337
84 Dibenzofuran	168	8.846	8.846	(0.848)	4900576	38.2599	2551

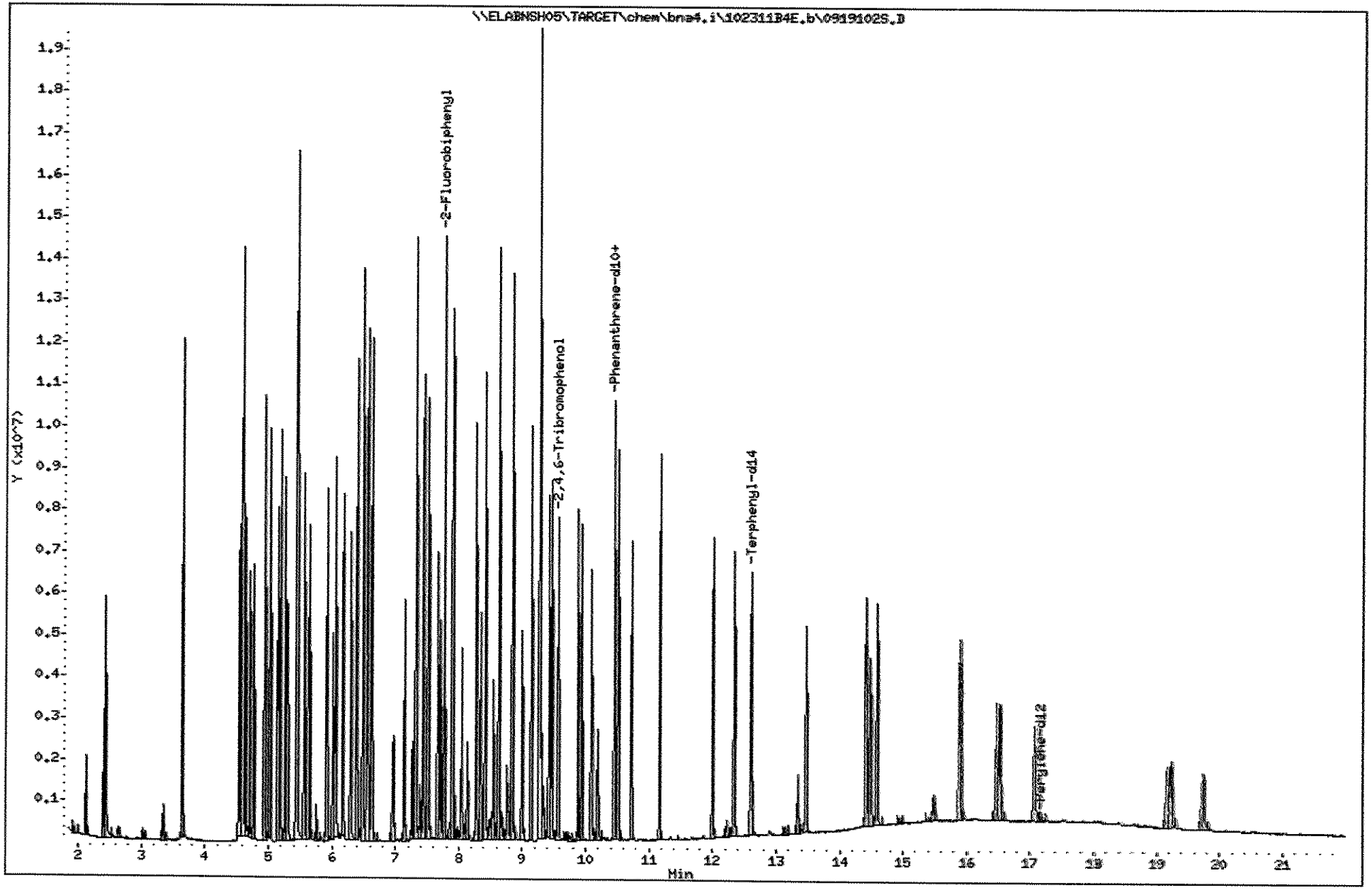
10/25/11

Data File: \\ELABNSH05\TARGET\chem\bna4.i\102311B4E.b\0919102S.D
Report Date: 25-Oct-2011 18:07

Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS ON-COLUMN (ng/ul)	FINAL (UG/KG)
88 Fluorene	166	9.273	9.264	(0.889)	3660054	36.1428	2410
104 Carbazole	167	10.724	10.724	(1.029)	3134815	32.9551	2197
110 Pentachlorophenol	266	10.184	10.185	(0.977)	439849	22.8734	1525
$ 107 2,4,6-Tribromophenol	330	9.571	9.562	(0.918)	1413867	68.3049	4554
111 Phenanthrene	178	10.454	10.454	(1.003)	4289102	30.8281	2055
109 Hexachlorobenzene	284	9.933	9.934	(0.953)	1382950	32.2998	2153
112 Anthracene	178	10.519	10.519	(1.009)	4119030	30.2055	2014
116 Fluoranthene	202	12.007	11.997	(1.152)	3712528	28.3356	1889
134 Pyrene	202	12.341	12.341	(1.184)	3637690	27.3506	1823
* 154 Perylene-d12	264	17.185	17.175	(1.000)	52257	1.00000	
$ 135 Terphenyl-d14	244	12.611	12.602	(1.210)	2590771	34.1645	2278
138 Benzo(a)anthracene	228	14.424	14.414	(1.383)	2552547	30.6270	2042
139 Chrysene	228	14.489	14.480	(1.390)	2412483	28.7476	1916
140 Bis(2-ethylhexyl)phthalate	149	14.591	14.591	(0.849)	2861391	33.1624	2211
155 Di-n-octylphthalate	149	15.892	15.893	(0.925)	3994557	33.4838	2232
156 Benzo(b)fluoranthene	252	16.478	16.469	(0.959)	2198814	31.5165	2101
157 Benzo(k)fluoranthene	252	16.534	16.525	(0.962)	2126867	30.1230	2008
158 Benzo(a)pyrene	252	17.082	17.073	(0.994)	1742018	29.6217	1975
159 Indeno(1,2,3-cd)pyrene	276	19.174	19.165	(1.116)	1486284	35.2309	2349
160 Dibenz(a,h)anthracene	278	19.239	19.230	(1.120)	1585490	38.3010	2553
161 Benzo(g,h,i)perylene	276	19.741	19.723	(1.149)	1548469	36.2983	2420

Data File: \\ELABNSH05\TARGET\chem\bna4.i\102311B4E.b\0919102S.D
Date : 24-OCT-2011 00:12
Client ID: 1J03009-HSD2
Sample Info: 1J03009-HSD2;1;15;1000;1;UG/KG;04-OCT-2011
Volume Injected (uL): 1.0
Column phase: fused silica

Instrument: bna4.i
Operator: MEC
Column diameter: 0.25



1029

1109191

Data File: \\ELABNSH05\TARGET\chem\bna4.i\102311B4E.b\0919103.D
Report Date: 25-Oct-2011 18:08

Laboratory Name

Data file : \\ELABNSH05\TARGET\chem\bna4.i\102311B4E.b\0919103.D
Lab Smp Id: 1109191-03 Client Smp ID: FLC-4-SB01-0204-092
Inj Date : 24-OCT-2011 00:41 MS Autotune Date: 23-OCT-2011 10:06
Operator : MEC Inst ID: bna4.i
Smp Info : 1109191-03;1;15;1000;1;UG/KG;04-OCT-2011
Misc Info : ;0;;;;1J03009;pahmisc.sub;
Comment :
Method : \\ELABNSH05\TARGET\chem\bna4.i\102311B4E.b\IXBN4LOW.m
Meth Date : 25-Oct-2011 18:04 mcobb Quant Type: ISTD
Cal Date : 24-AUG-2011 18:33 Cal File: SEQ-CAL9.D
Als bottle: 28
Dil Factor: 1.00000
Integrator: HP RTE Compound Sublist: pahmisc.sub
Target Version: 4.04
Processing Host: TARGET09_VM

Concentration Formula: Amt * DF * Uf * Vt*Vi/(Amt * Vi * (Solids/100))

Name	Value	Description
DF	1.000	Dilution Factor
Uf	1.000	ng unit correction factor
Vt	1000.000	Volume of final extract (uL)(1000 low, 2
Amt	15.000	Mass of initial extraction
Vi	1.000	Volume injected (uL)
Solids	100.000	Percent Solids

10-27-11

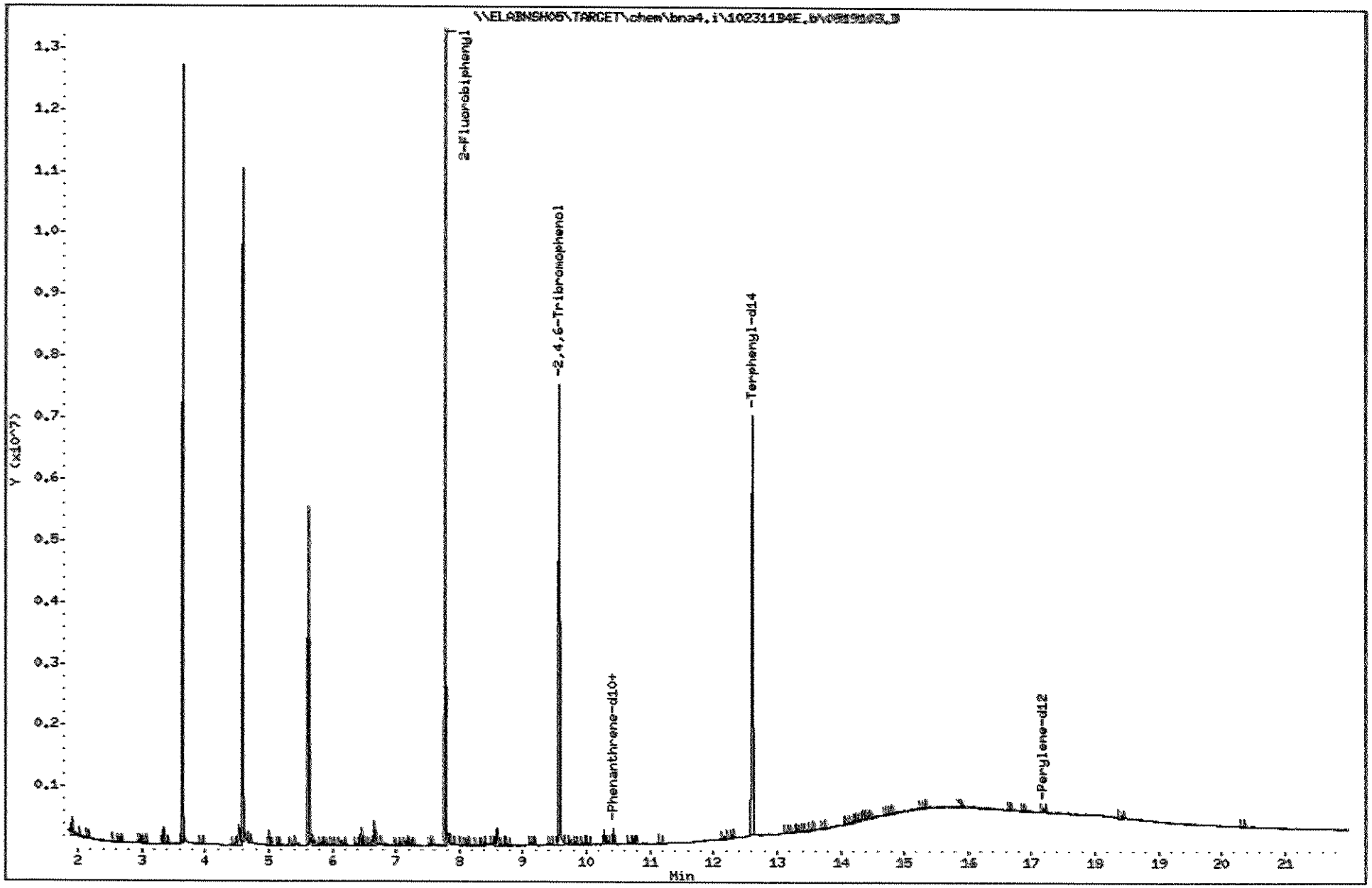
Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS ON-COLUMN (ng/ul)	FINAL (UG/KG)
* 102 Phenanthrene-d10	188	10.426	10.417	(1.000)	108308	1.00000	
$ 74 2-Fluorobiphenyl	172	7.767	7.768	(0.745)	4417963	43.1686	2878
$ 107 2,4,6-Tribromophenol	330	9.571	9.562	(0.918)	1498411	79.9117	5327
111 Phenanthrene	178	10.454	10.454	(1.003)	2804	0.02225	1.483(a)
134 Pyrene	202	12.341	12.341	(1.184)	2566	0.02130	1.420(a)
* 154 Perylene-d12	264	17.185	17.175	(1.000)	40663	1.00000	
$ 135 Terphenyl-d14	244	12.611	12.602	(1.210)	2872331	41.8136	2788
140 Bis(2-ethylhexyl)phthalate	149	14.600	14.591	(0.850)	4454	0.06634	4.422

QC Flag Legend

a - Target compound detected but, quantitated amount
Below Limit Of Quantitation(BLOQ).

Data File: \\ELABNSHO5\TARGET\chem\bna4.i\102311B4E.b\0919103.D
Date : 24-OCT-2011 00:41
Client ID: FLC-4-SB01-0204-092
Sample Info: 1109191-03;1;15;1000;1;UE/XE;04-OCT-2011
Volume Injected (uL): 1.0
Column phase: fused silica

Instrument: bna4.i
Operator: MEC
Column diameter: 0.25



1031

1109191

Data File: \\ELABNSHOS\TARGET\chem\bna4.i\10231104E.b\0919103.D

Date : 24-OCT-2011 00:41

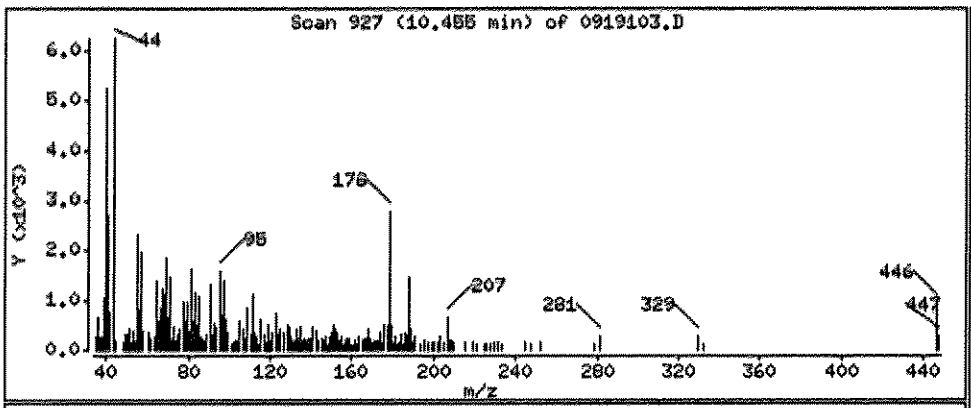
Client ID: FLC-4-SB01-0204-092 Instrument: bna4.i

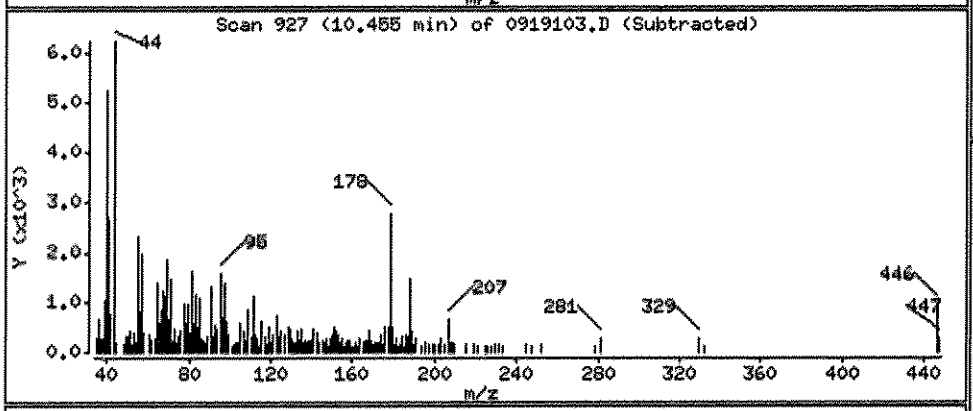
Sample Info: 1109191-03;1;15;1000;1;UG/KG;04-OCT-2011

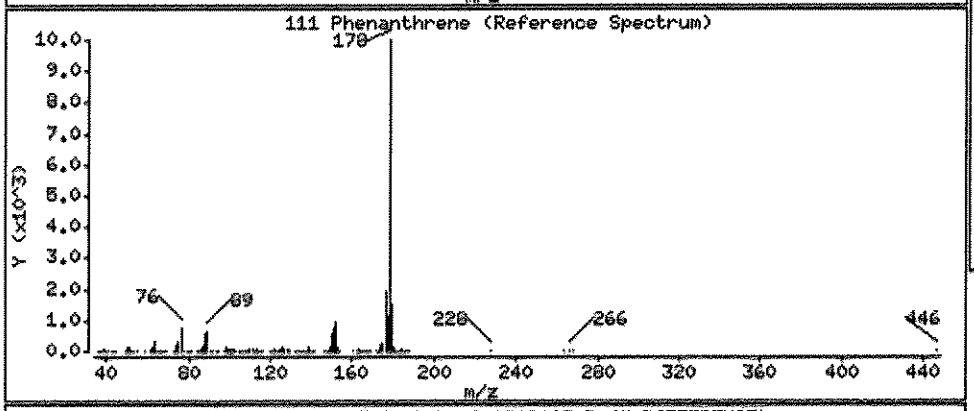
Volume Injected (uL): 1.0 Operator: HEC

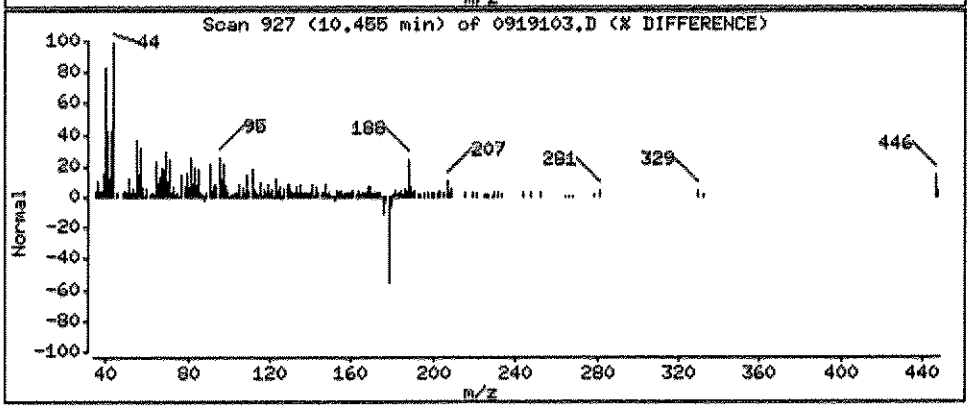
Column phase: fused silica Column diameter: 0.25

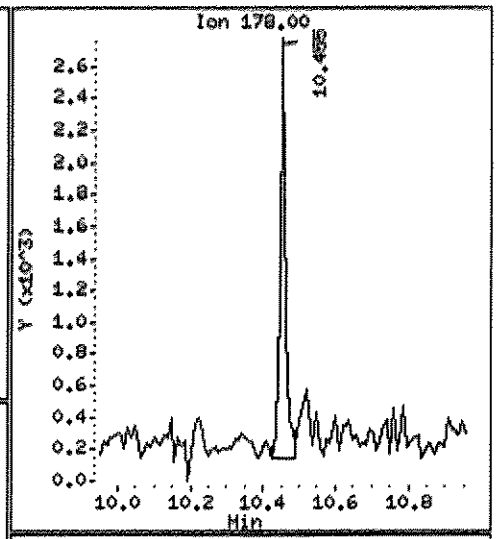
111 Phenanthrene Concentration: 1.483 UG/KG

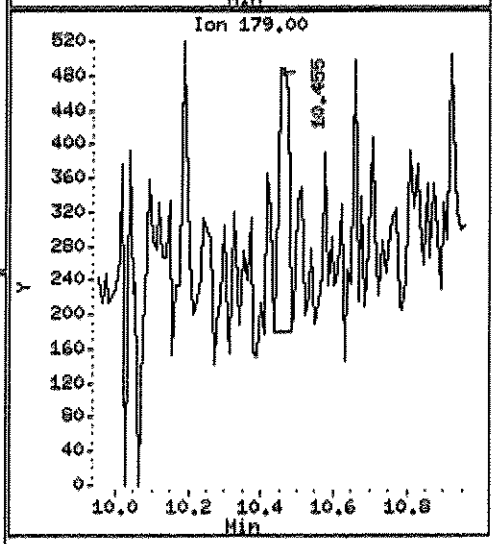












Data File: \\ELABNSHOB\TARGET\chem\bna4.i\102311B4E.b\0919103.D

Date : 24-OCT-2011 00:41

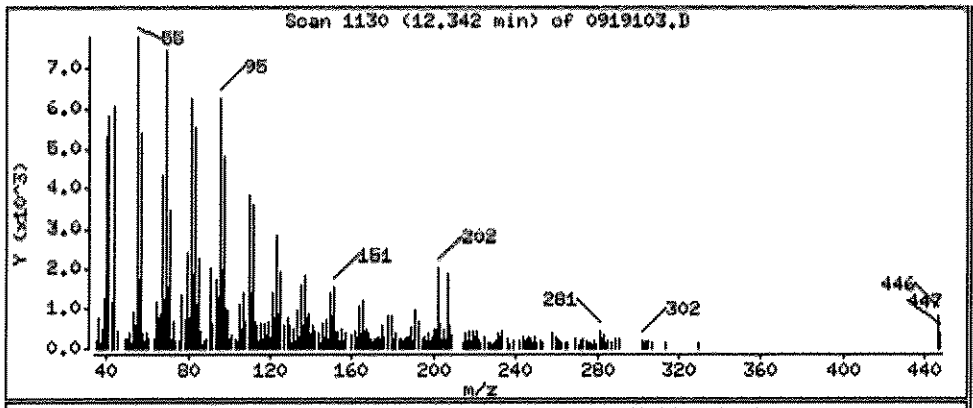
Client ID: FLC-4-SB01-0204-092 Instrument: bna4.i

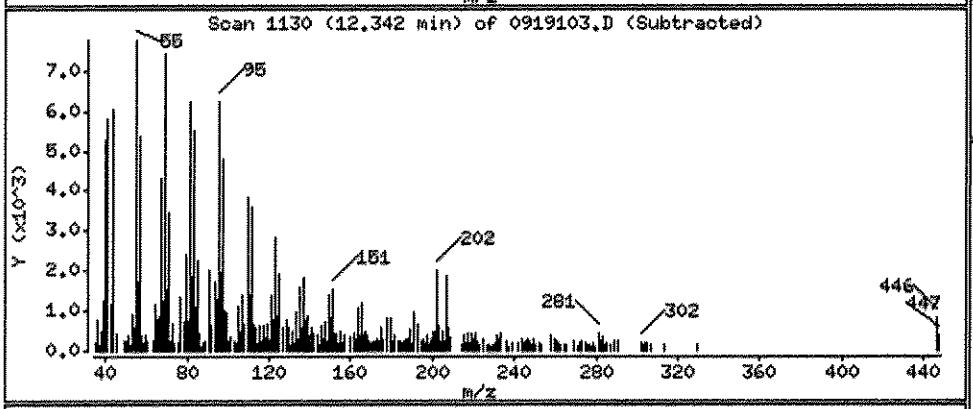
Sample Info: 1109191-03;1;15;1000;1;UG/KG;04-OCT-2011

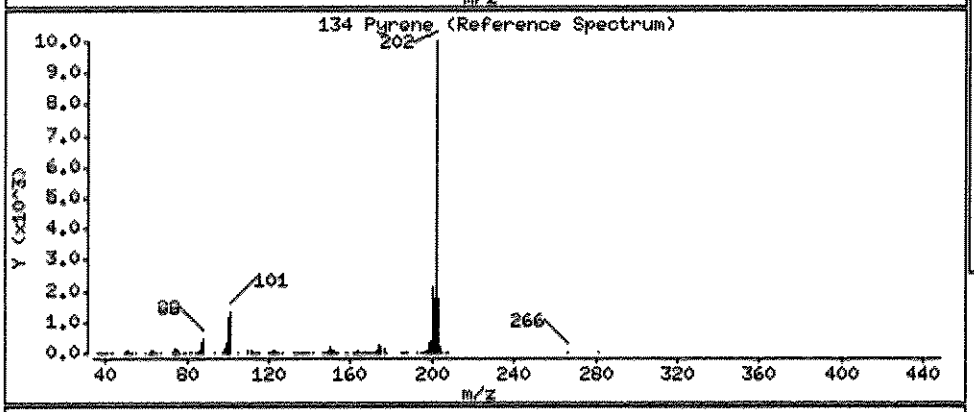
Volume Injected (uL): 1.0 Operator: HEC

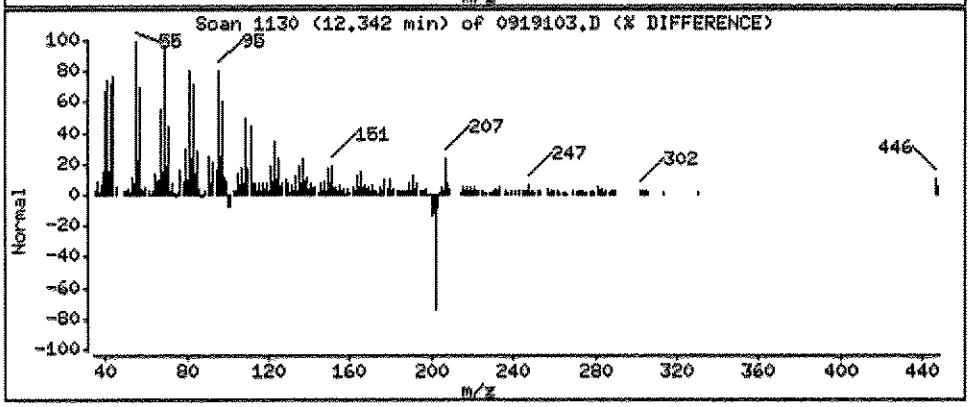
Column phase: fused silica Column diameter: 0.25

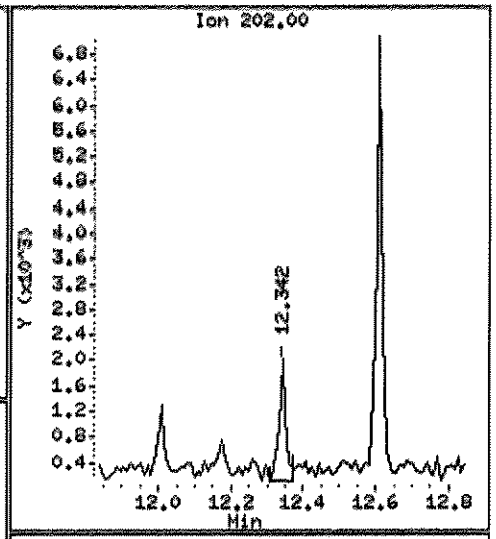
134 Pyrene Concentration: 1.420 UG/KG

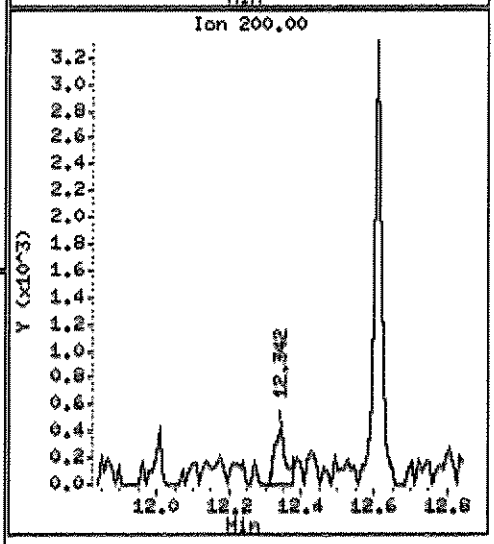












Data File: \\ELABNSHOS\TARGET\chem\bna4.i\102311B4E.b\0919103.D

Date : 24-OCT-2011 00:41

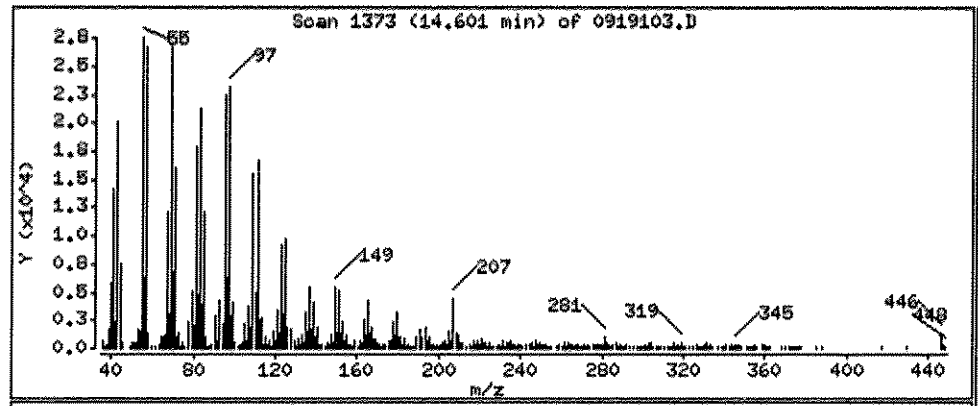
Client ID: FLC-4-SB01-0204-092 Instrument: bna4.i

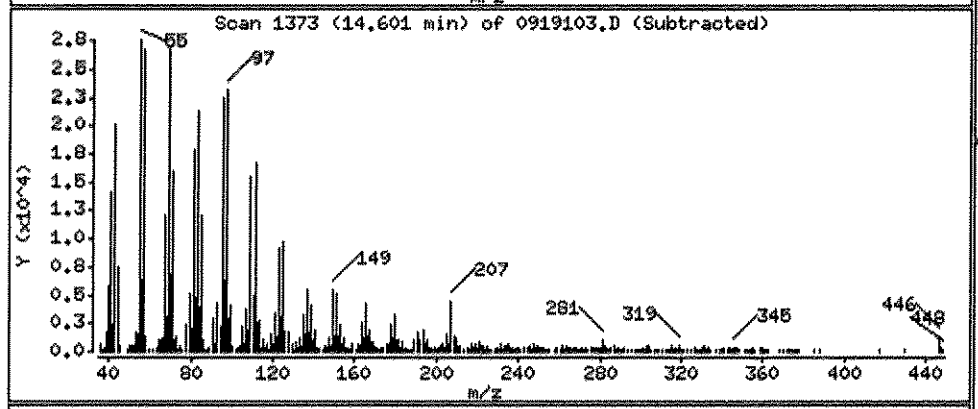
Sample Info: 1109191-03;1;15;1000;1;UG/KG;04-OCT-2011

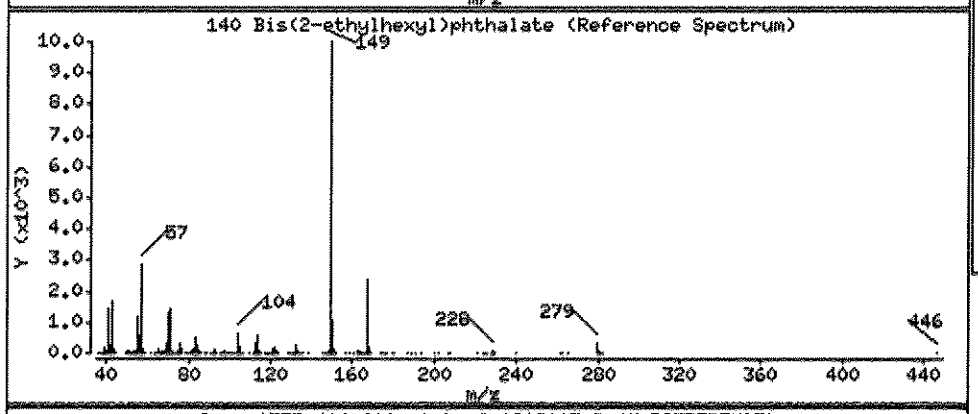
Volume Injected (uL): 1.0 Operator: HEC

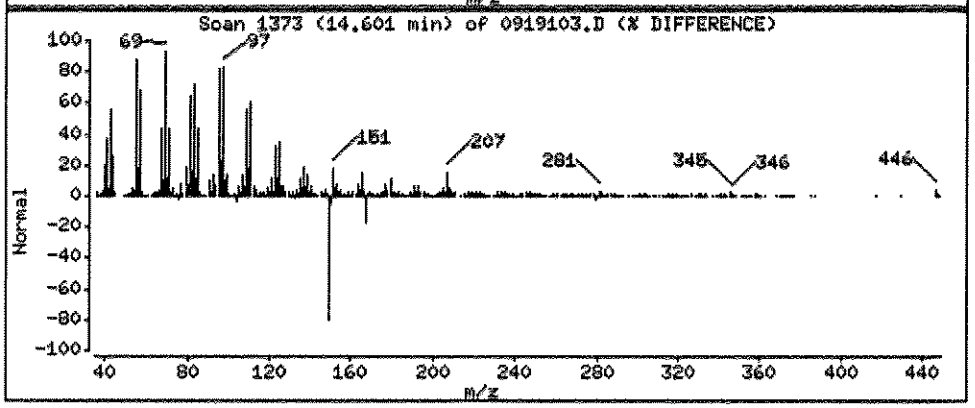
Column phase: fused silica Column diameter: 0.25

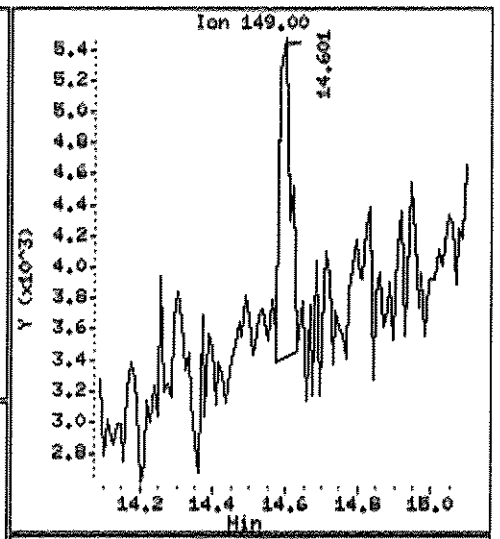
140 Bis(2-ethylhexyl)phthalate Concentration: 4.422 UG/KG

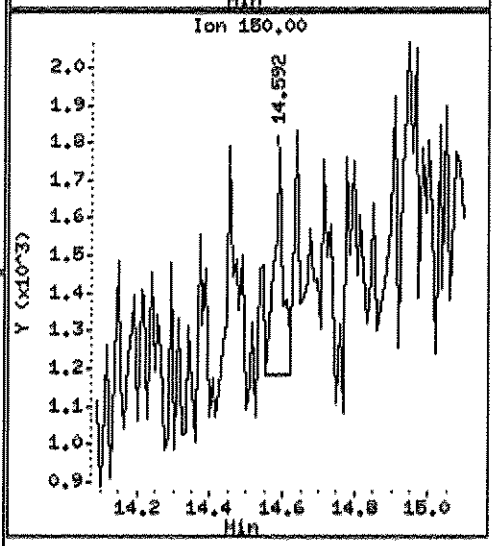












Data File: \\ELABNSH05\TARGET\chem\bna4.i\102311B4E.b\0919105.D
Report Date: 25-Oct-2011 18:08

Laboratory Name

Data file : \\ELABNSH05\TARGET\chem\bna4.i\102311B4E.b\0919105.D
Lab Smp Id: 1109191-05 Client Smp ID: FLC-4-SS02-0624-092
Inj Date : 24-OCT-2011 01:11 MS Autotune Date: 23-OCT-2011 10:06
Operator : MEC Inst ID: bna4.i
Smp Info : 1109191-05;1;15;1000;1;UG/KG;04-OCT-2011
Misc Info : ;0;;;;1J03009;pahmisc.sub;
Comment :
Method : \\ELABNSH05\TARGET\chem\bna4.i\102311B4E.b\IXBN4LOW.m
Meth Date : 25-Oct-2011 18:04 mcobb Quant Type: ISTD
Cal Date : 24-AUG-2011 18:33 Cal File: SEQ-CAL9.D
Als bottle: 29
Dil Factor: 1.00000
Integrator: HP RTE Compound Sublist: pahmisc.sub
Target Version: 4.04
Processing Host: TARGET09_VM

Concentration Formula: Amt * DF * Uf * Vt*Vi/(Amt * Vi * (Solids/100))

Name	Value	Description
DF	1.000	Dilution Factor
Uf	1.000	ng unit correction factor
Vt	1000.000	Volume of final extract (uL)(1000 low, 2
Amt	15.000	Mass of initial extraction
Vi	1.000	Volume injected (uL)
Solids	100.000	Percent Solids

10-27-1

Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS ON-COLUMN (ng/ul)	FINAL (UG/KG)
* 102 Phenanthrene-d10	188	10.426	10.417	(1.000)	102990	1.00000	
81 Naphthalene	128	6.484	6.485	(0.622)	7481	0.04880	3.253(a)
55 2-Methylnaphthalene	142	7.321	7.321	(0.702)	3133	0.03411	2.274(a)
$ 74 2-Fluorobiphenyl	172	7.767	7.768	(0.745)	3900277	40.0781	2672
77 Acenaphthylene	152	8.418	8.418	(0.807)	12741	0.09551	6.367
88 Fluorene	166	9.283	9.264	(0.890)	1996	0.02288	1.525(a)
$ 107 2,4,6-Tribromophenol	330	9.571	9.562	(0.918)	1171945	65.7283	4382
111 Phenanthrene	178	10.454	10.454	(1.003)	11450	0.09554	6.369
112 Anthracene	178	10.519	10.519	(1.009)	3068	0.02612	1.741(a)
116 Fluoranthene	202	12.007	11.997	(1.152)	30406	0.26942	17.96
134 Pyrene	202	12.341	12.341	(1.184)	50390	0.43983	29.32
* 154 Perylene-d12	264	17.185	17.175	(1.000)	42559	1.00000	
$ 135 Terphenyl-d14	244	12.611	12.602	(1.210)	2055115	31.4618	2097

10/25/11

Data File: \\ELABNSH05\TARGET\chem\bna4.i\102311B4E.b\0919105.D
Report Date: 25-Oct-2011 18:08

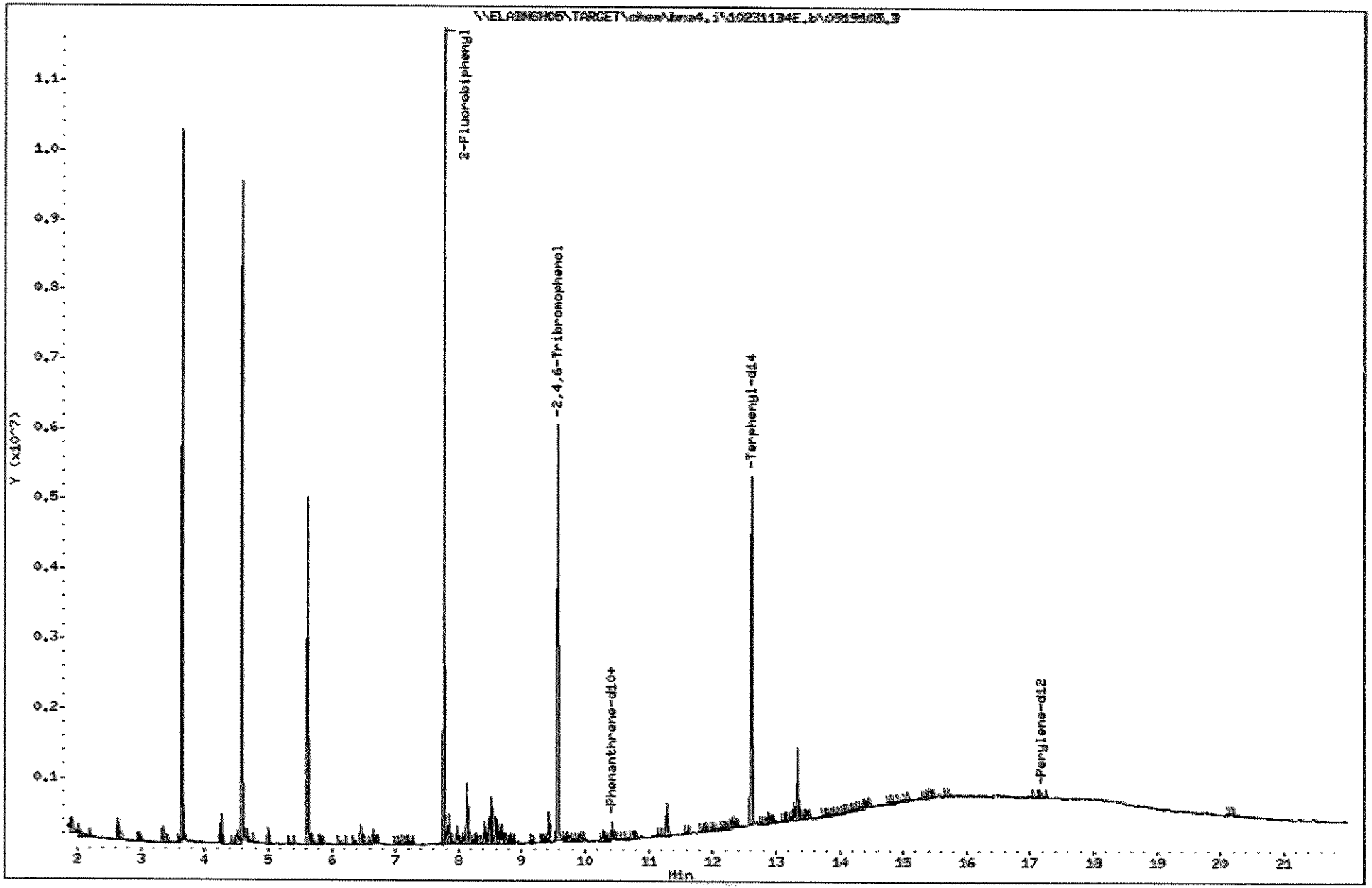
Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS ON-COLUMN (ng/ul)	FINAL (UG/KG)
138 Benzo(a)anthracene	228	14.414	14.414	(1.382)	16914	0.23560	15.71
139 Chrysene	228	14.479	14.480	(1.389)	24850	0.34377	22.92
156 Benzo(b)fluoranthene	252	16.478	16.469	(0.959)	33365	0.58721	39.15
157 Benzo(k)fluoranthene	252	16.525	16.525	(0.962)	14740	0.25634	17.09(M)
158 Benzo(a)pyrene	252	17.082	17.073	(0.994)	22363	0.46692	31.13
159 Indeno(1,2,3-cd)pyrene	276	19.174	19.165	(1.116)	11256	0.32761	21.84
160 Dibenz(a,h)anthracene	278	19.230	19.230	(1.119)	4335	0.12858	8.572(M)
161 Benzo(g,h,i)perylene	276	19.732	19.723	(1.148)	17727	0.51024	34.02

QC Flag Legend

a - Target compound detected but, quantitated amount
Below Limit Of Quantitation(BLOQ).
M - Compound response manually integrated.

Data File: \\ELAINSH05\TARGET\chem\bma4.i\102311B4E.b\0919105.D
Date : 24-OCT-2011 01:11
Client ID: FLC-4-SS02-0624-092
Sample Info: 1109191-05;1;15;1000;1;UG/NE;04-OCT-2011
Volume Injected (uL): 1.0
Column phase: fused silica

Instrument: bma4.i
Operator: MEC
Column diameter: 0.25



1037

1109191

Data File: \\ELABNSH05\TARGET\chem\bna4.i\102311B4E.b\0919105.D

Date : 24-OCT-2011 01:11

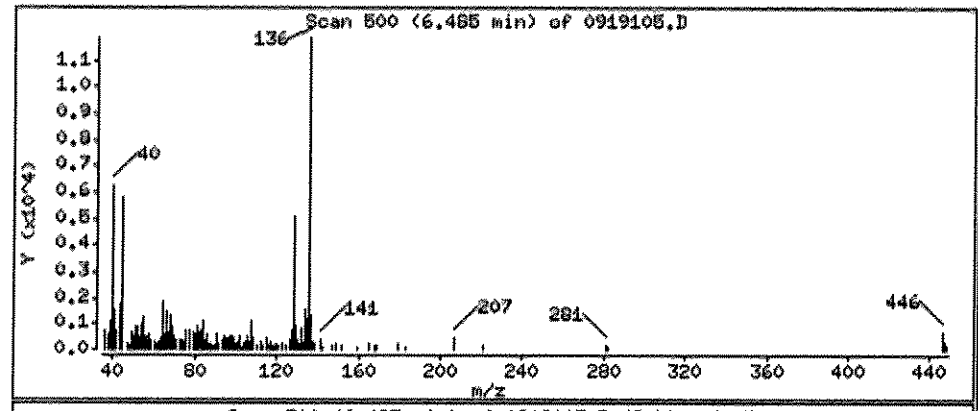
Client ID: FLC-4-SS02-0624-092 Instrument: bna4.i

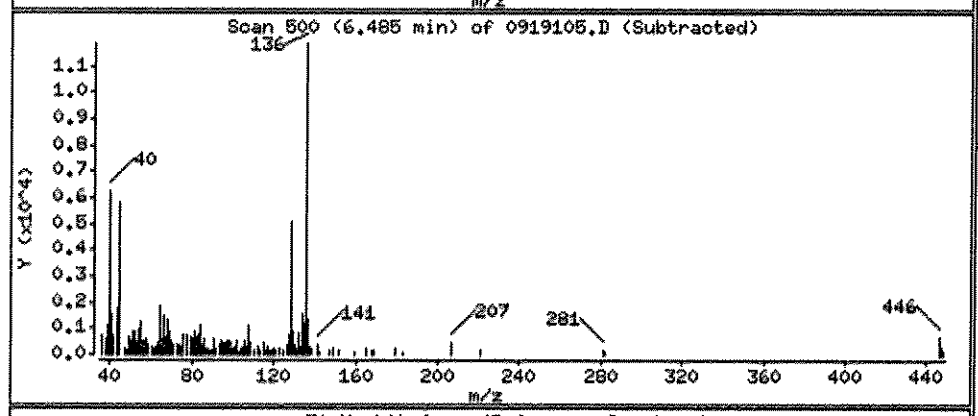
Sample Info: 1109191-05;1;15;1000;1;UG/KG;04-OCT-2011

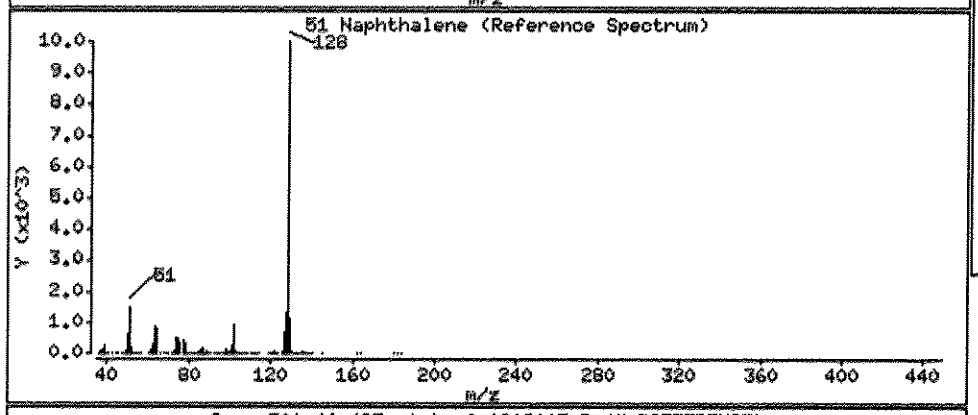
Volume Injected (uL): 1.0 Operator: MEC

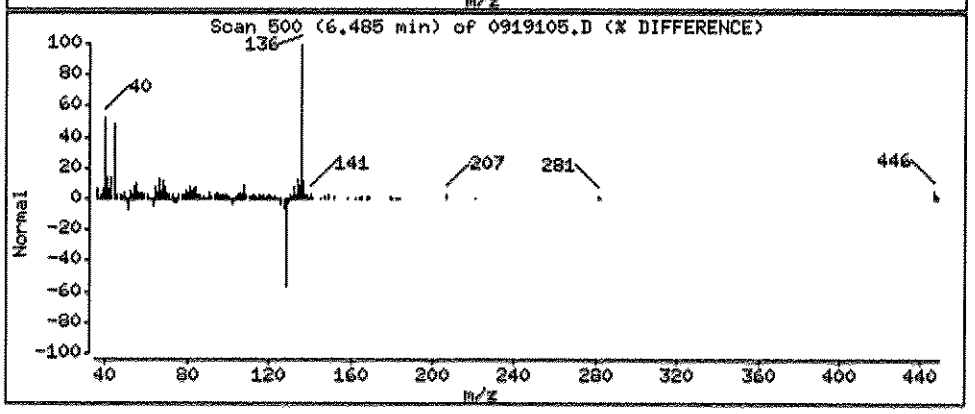
Column phase: fused silica Column diameter: 0.25

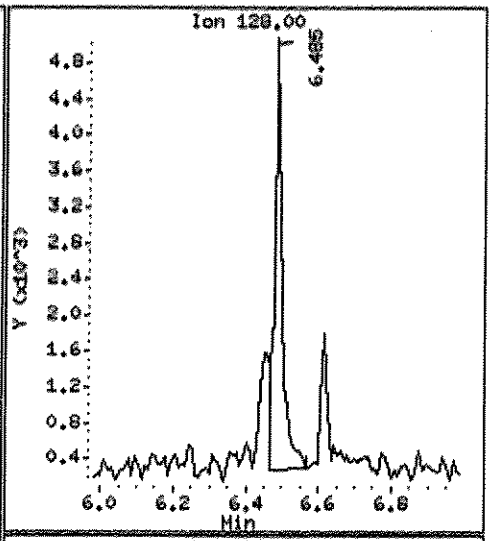
51 Naphthalene Concentration: 3.253 UG/KG

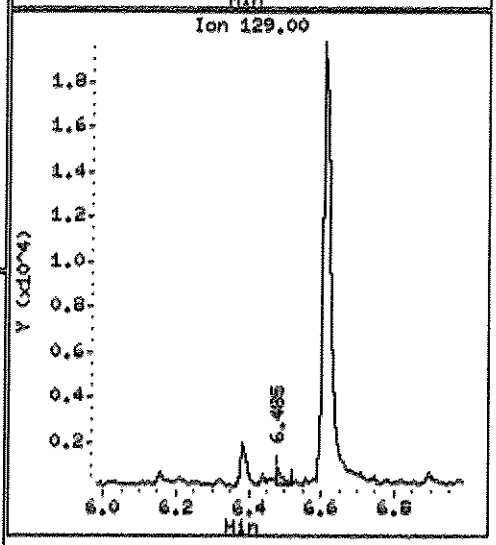












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Date : 24-OCT-2011 01:11

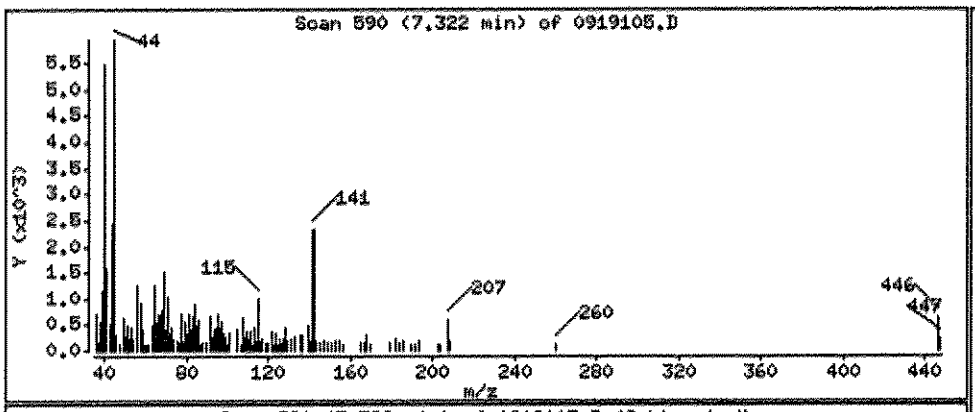
Client ID: FLC-4-SS02-0624-092 Instrument: bna4.i

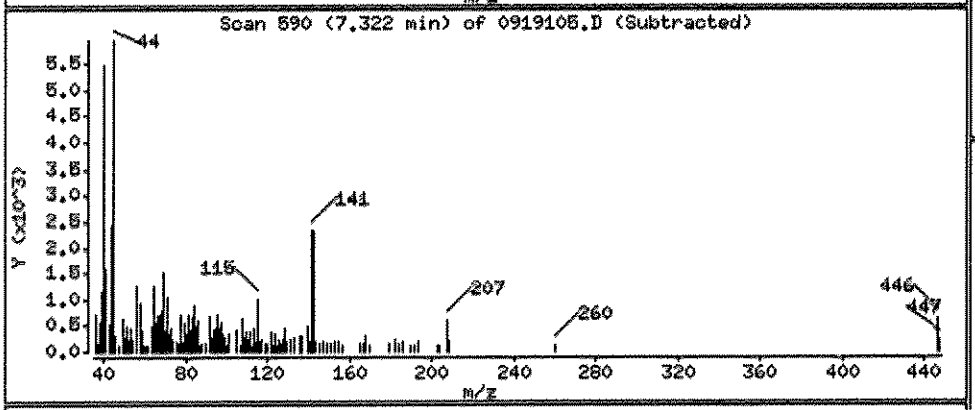
Sample Info: 1109191-05;1;15;1000;1;UG/KG;04-OCT-2011

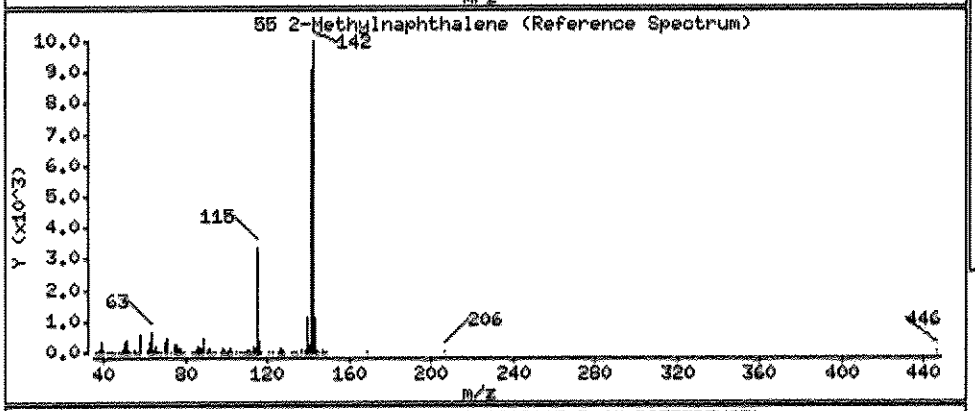
Volume Injected (uL): 1.0 Operator: HEC

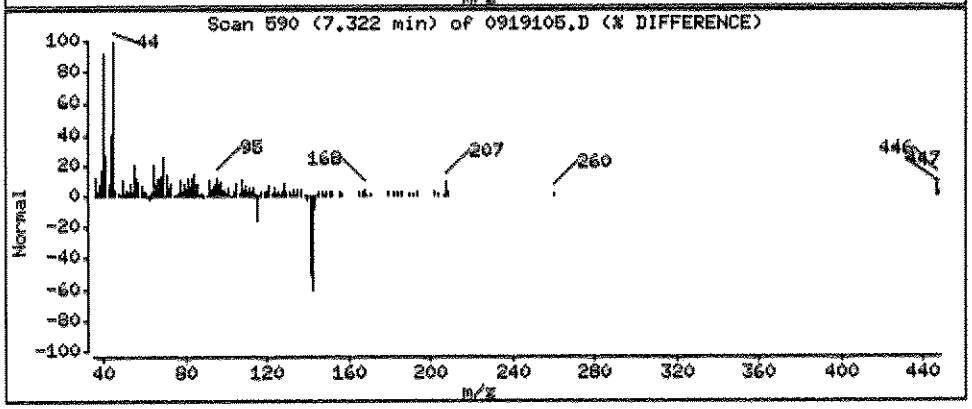
Column phase: fused silica Column diameter: 0.25

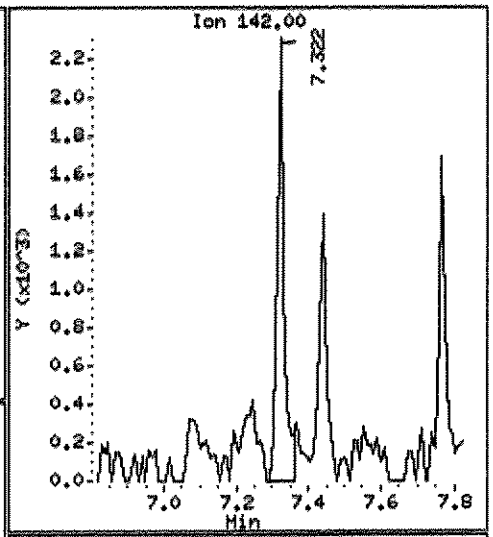
55 2-Methylnaphthalene Concentration: 2.274 UG/KG

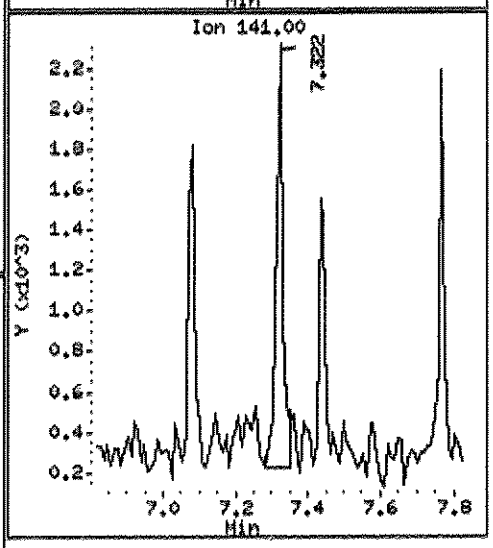












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Date : 24-OCT-2011 01:11

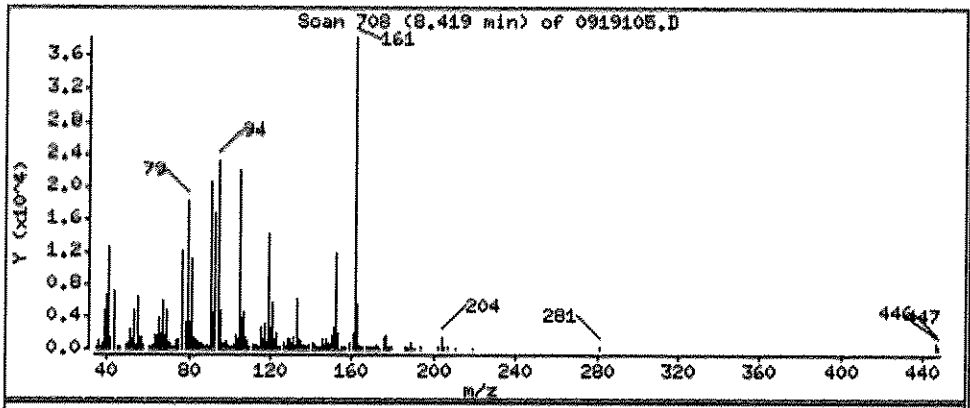
Client ID: FLC-4-SS02-0624-092 Instrument: bna4.i

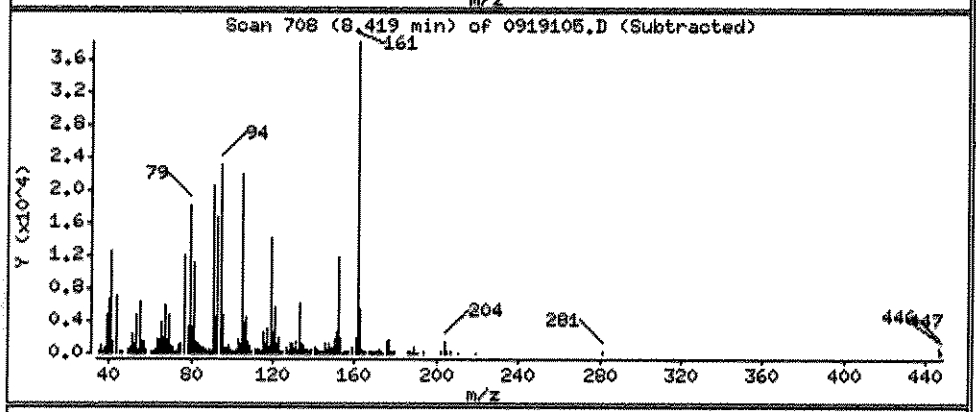
Sample Info: 1109191-05;1;15;1000;1;UG/KG;04-OCT-2011

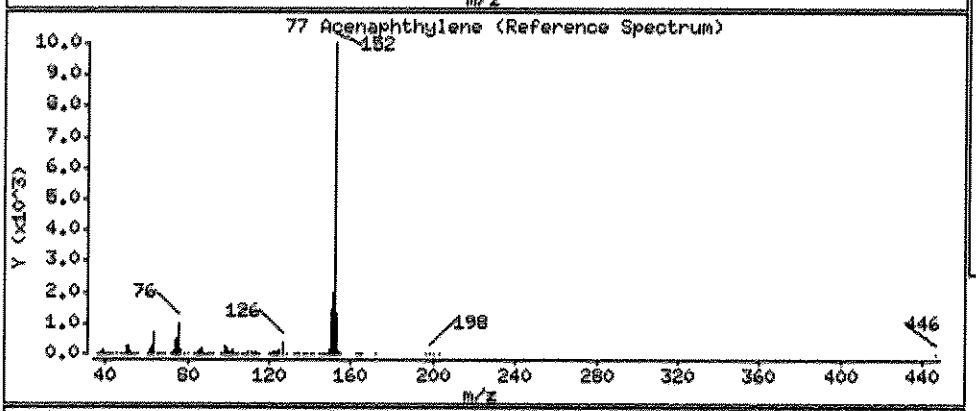
Volume Injected (uL): 1.0 Operator: HEC

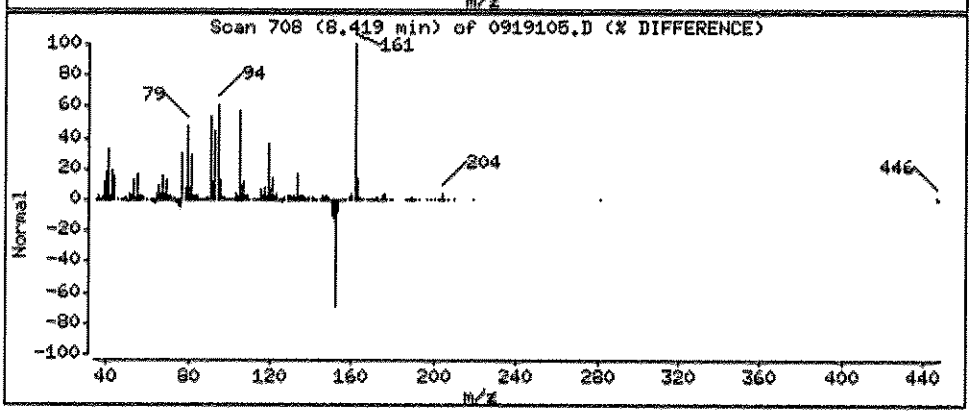
Column phase: fused silica Column diameter: 0.25

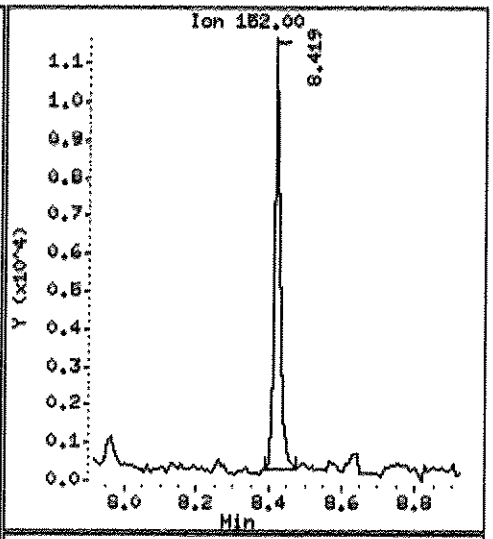
77 Acenaphthylene Concentration: 6.367 UG/KG

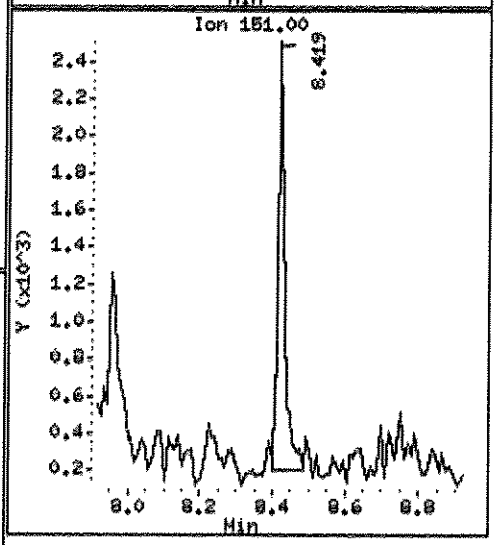












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Date : 24-OCT-2011 01:11

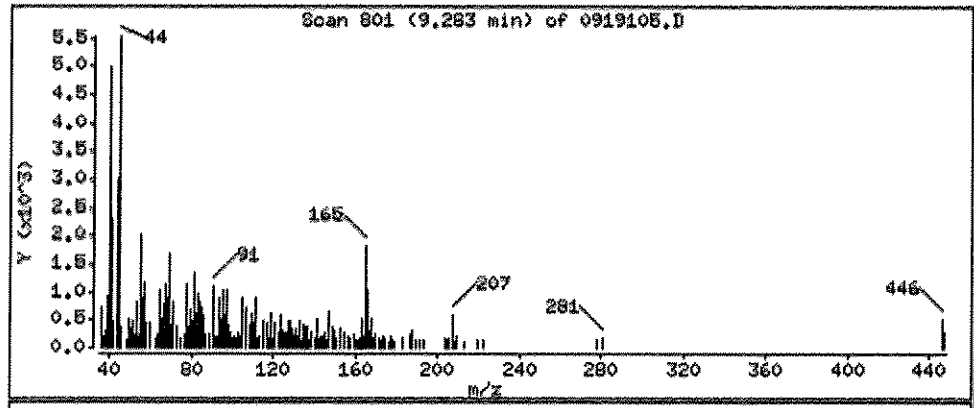
Client ID: FLC-4-SS02-0624-092 Instrument: bna4.i

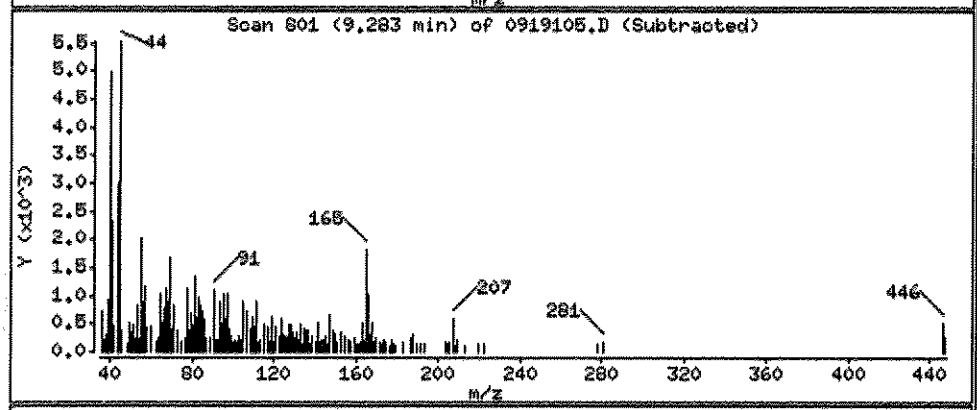
Sample Info: 1109191-05;1;15;1000;1;UG/KG;04-OCT-2011

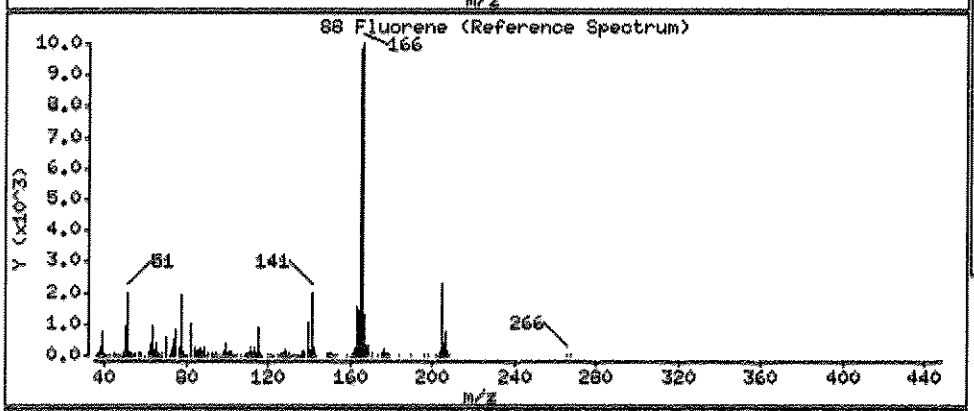
Volume Injected (uL): 1.0 Operator: HEC

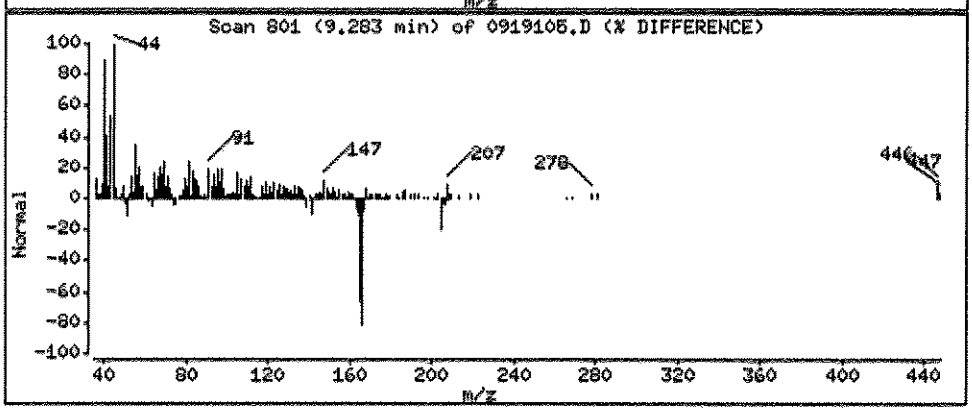
Column phase: fused silica Column diameter: 0.25

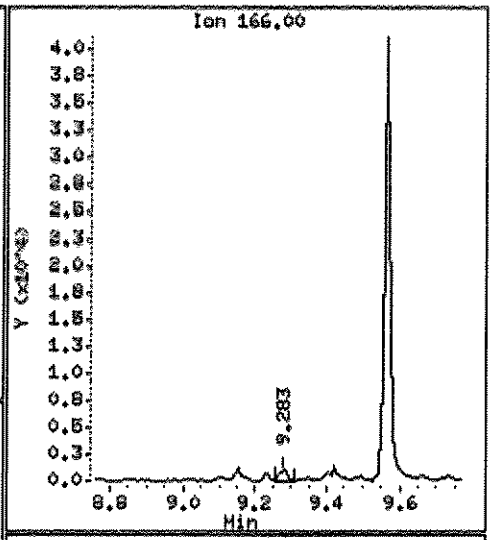
88 Fluorene Concentration: 1.526 UG/KG

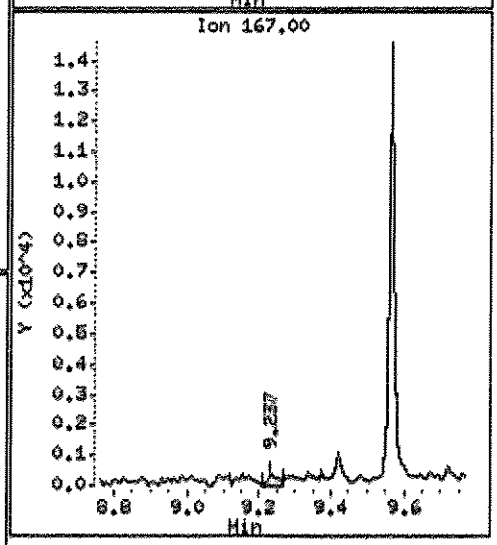












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Date : 24-OCT-2011 01:11

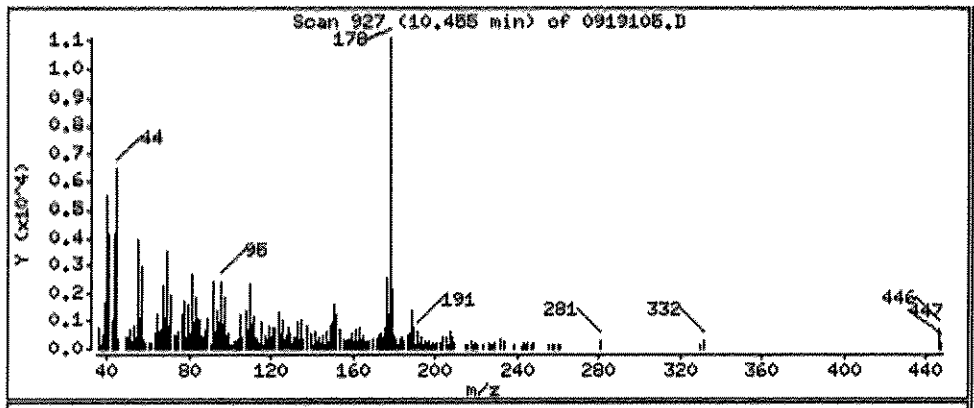
Client ID: FLC-4-SS02-0624-092 Instrument: bna4.i

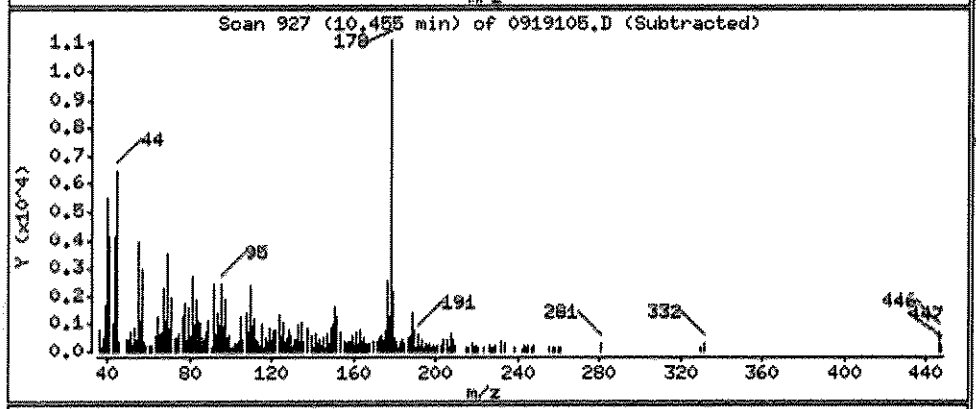
Sample Info: 1109191-05;1;15;1000;1;UG/KG;04-OCT-2011

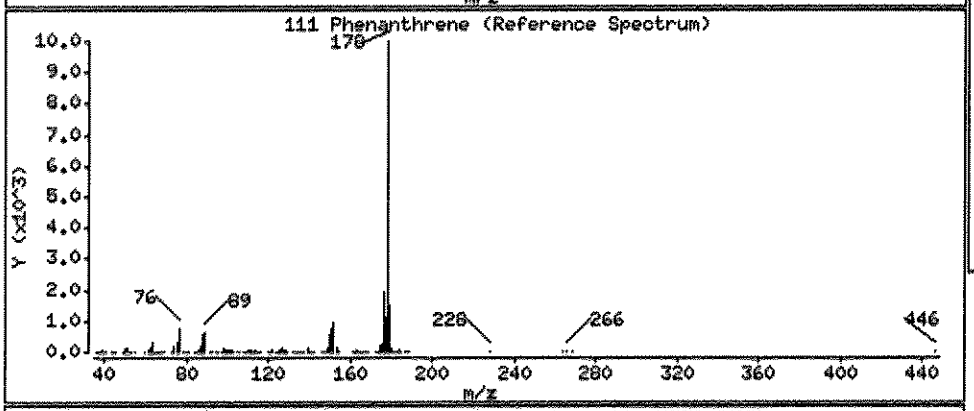
Volume Injected (uL): 1.0 Operator: HEC

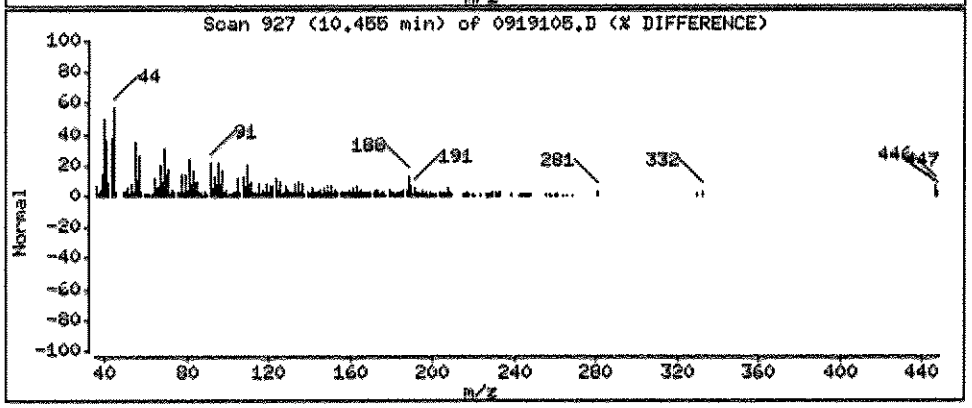
Column phase: fused silica Column diameter: 0.25

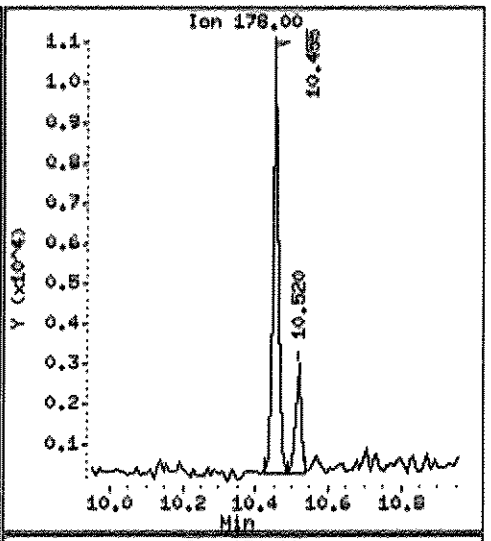
111 Phenanthrene Concentration: 6.369 UG/KG

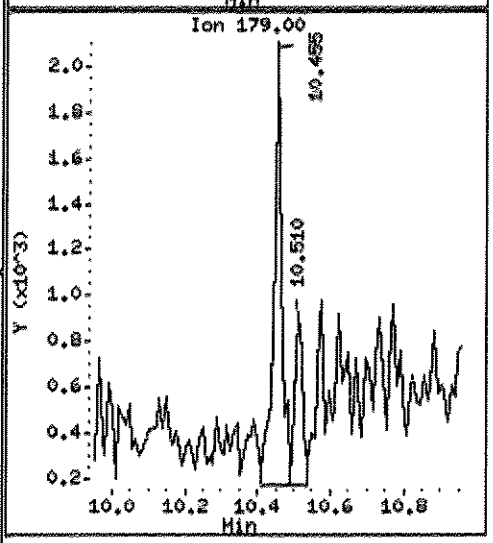












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Date : 24-OCT-2011 01:11

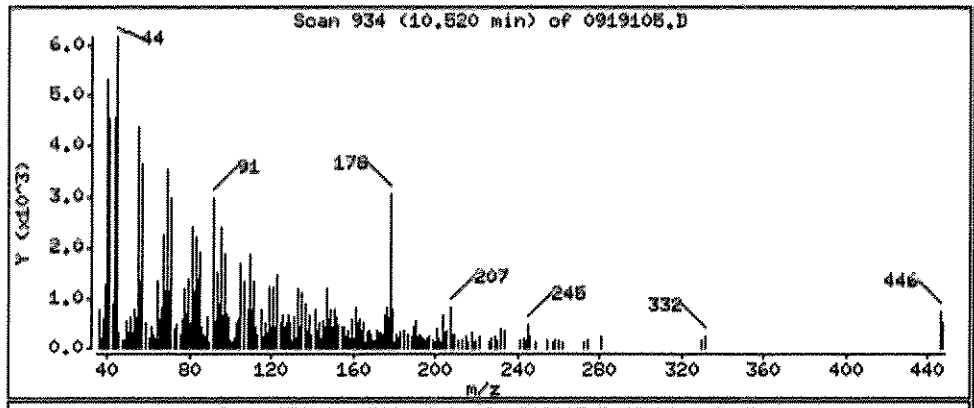
Client ID: FLC-4-SS02-0624-092 Instrument: bna4.i

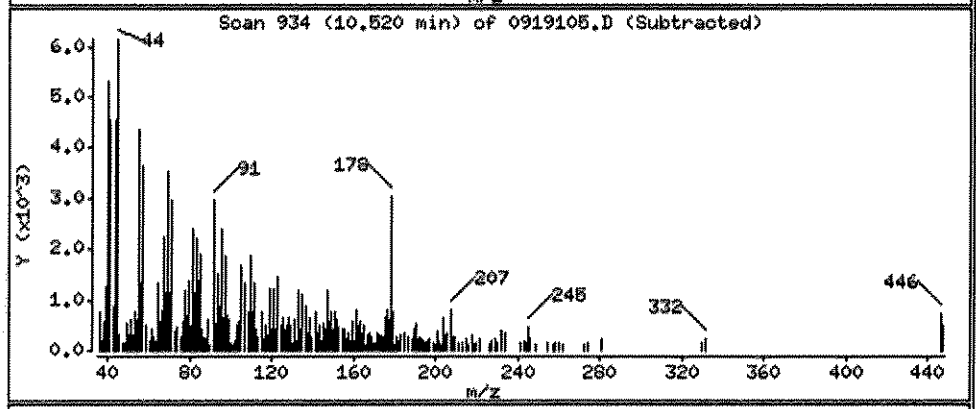
Sample Info: 1109191-05;1;15;1000;1;UG/KG;04-OCT-2011

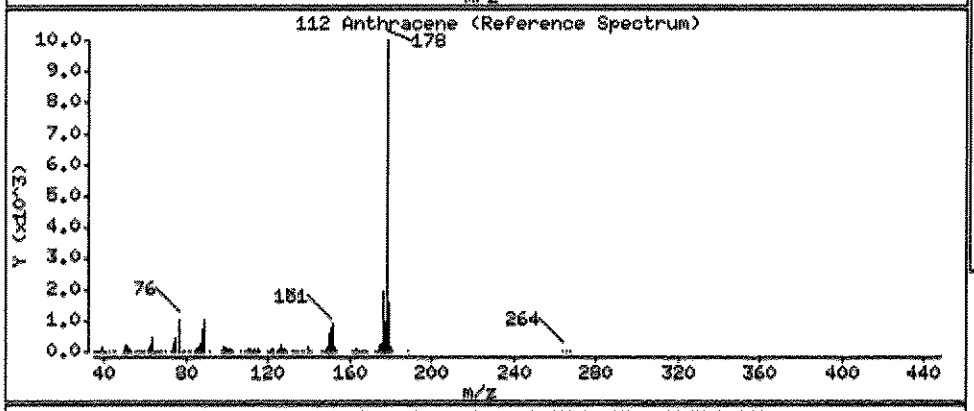
Volume Injected (uL): 1.0 Operator: HEC

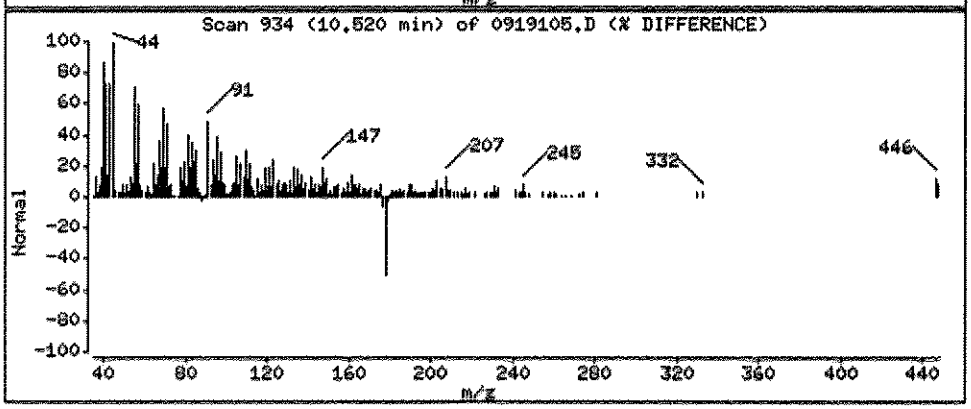
Column phase: fused silica Column diameter: 0.25

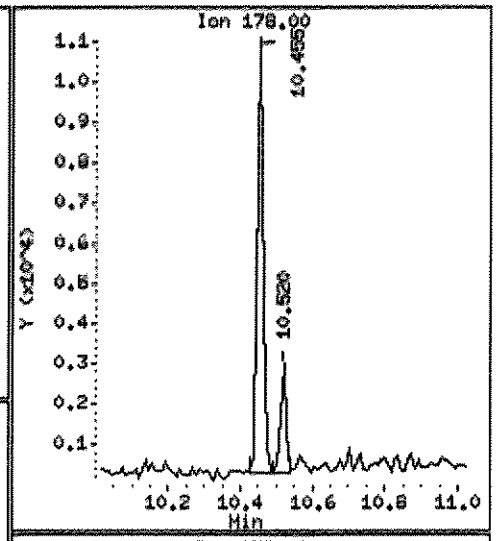
112 Anthracene Concentration: 1.741 UG/KG

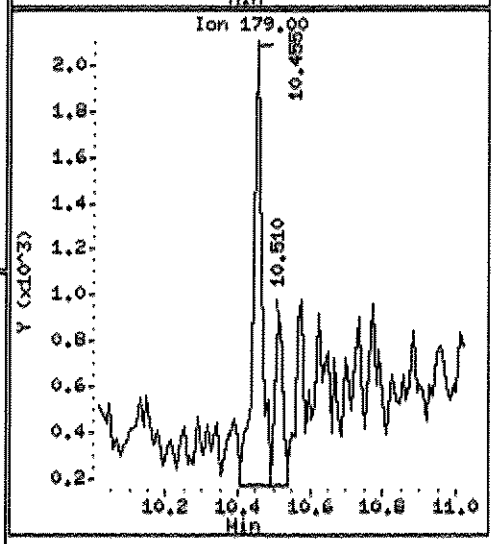












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Date : 24-OCT-2011 01:11

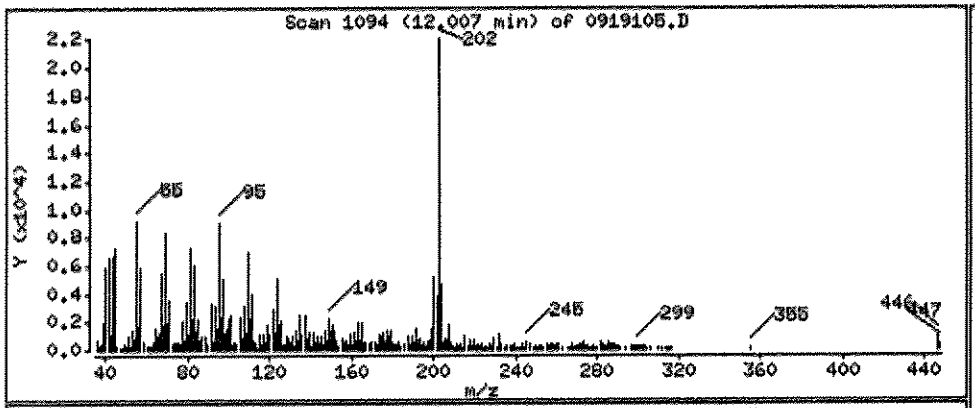
Client ID: FLC-4-SS02-0624-092 Instrument: bna4.i

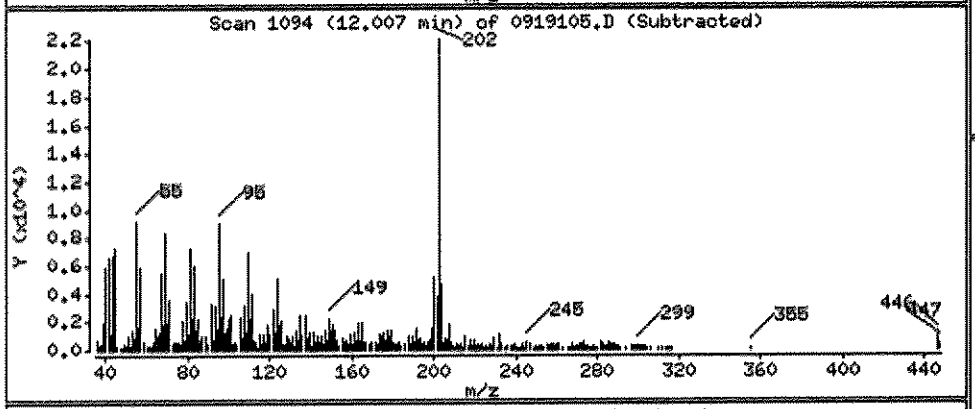
Sample Info: 1109191-05;1;15;1000;1;UG/KG;04-OCT-2011

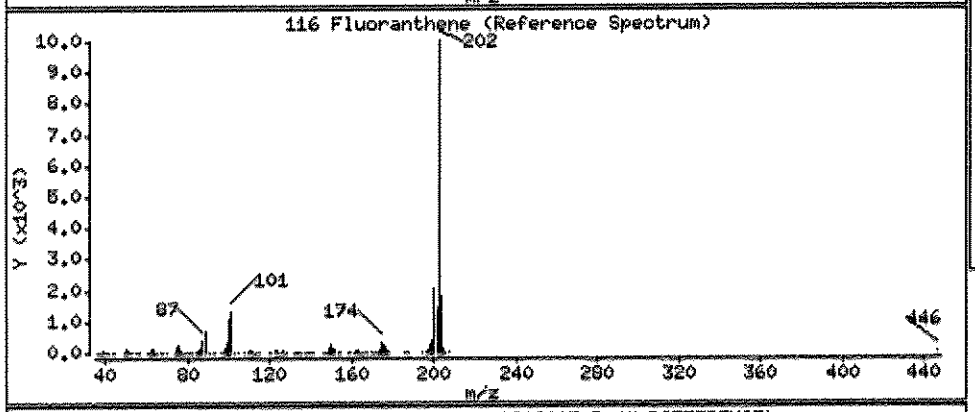
Volume Injected (uL): 1.0 Operator: HEC

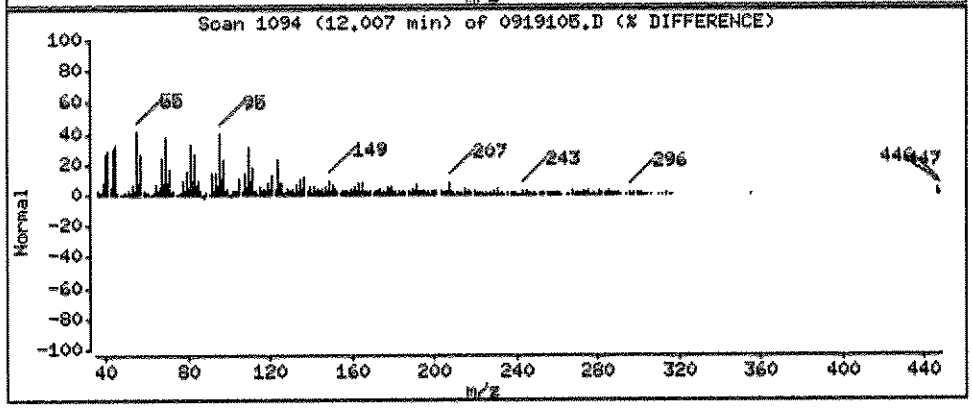
Column phase: fused silica Column diameter: 0.25

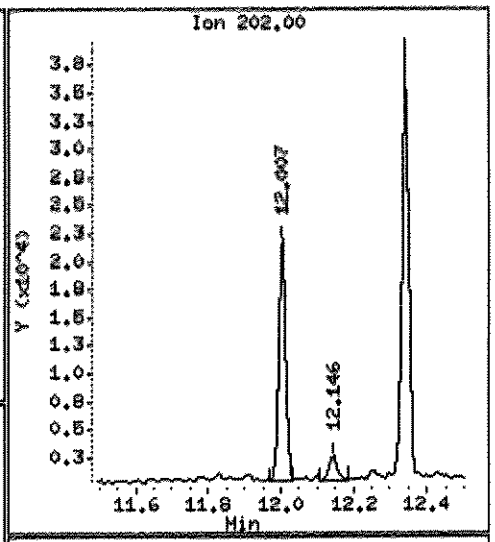
116 Fluoranthene Concentration: 17.96 UG/KG

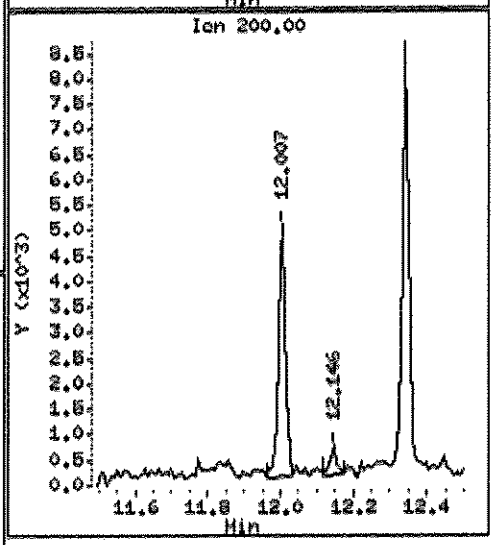












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Date : 24-OCT-2011 01:11

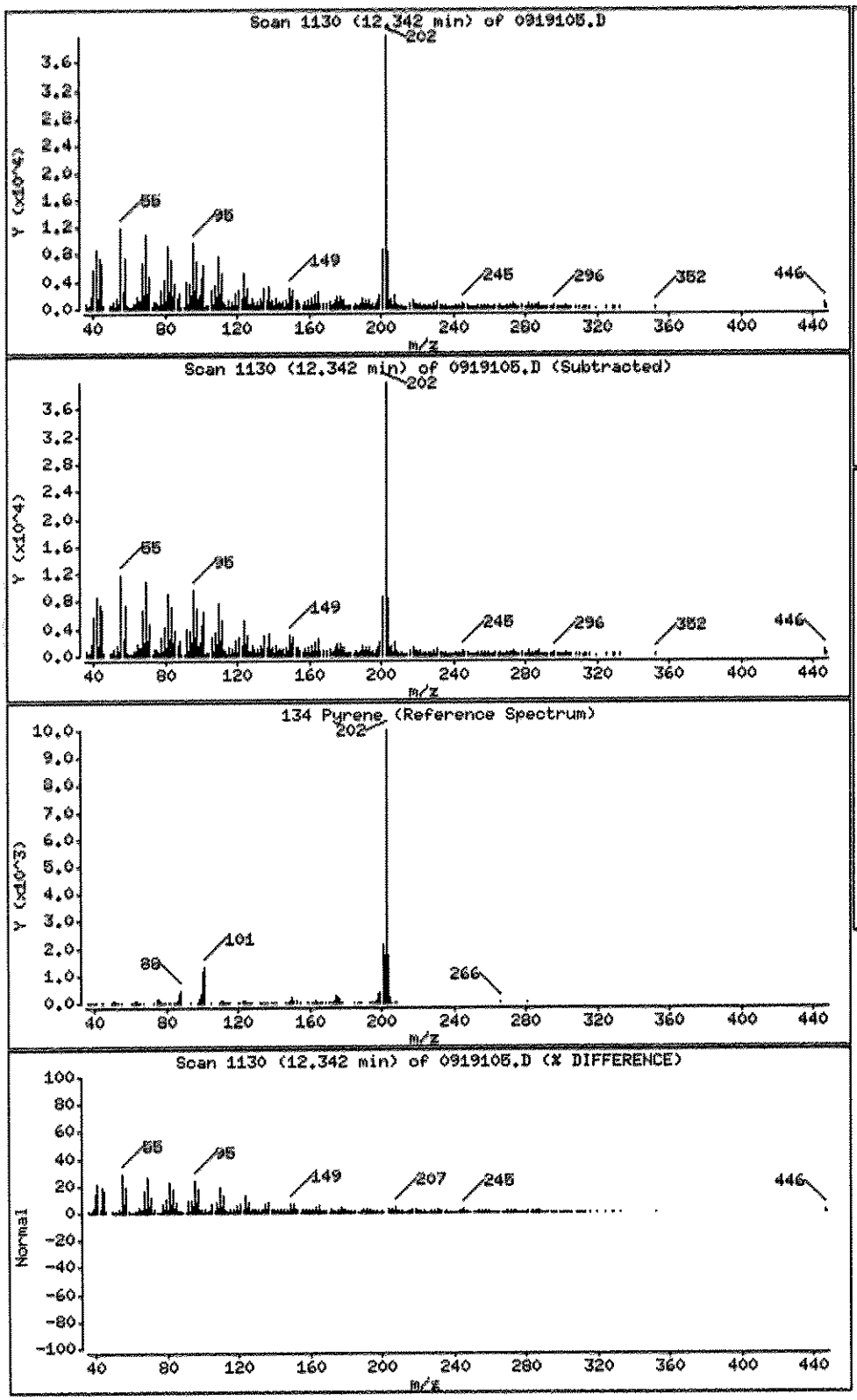
Client ID: FLC-4-SS02-0624-092 Instrument: bna4.i

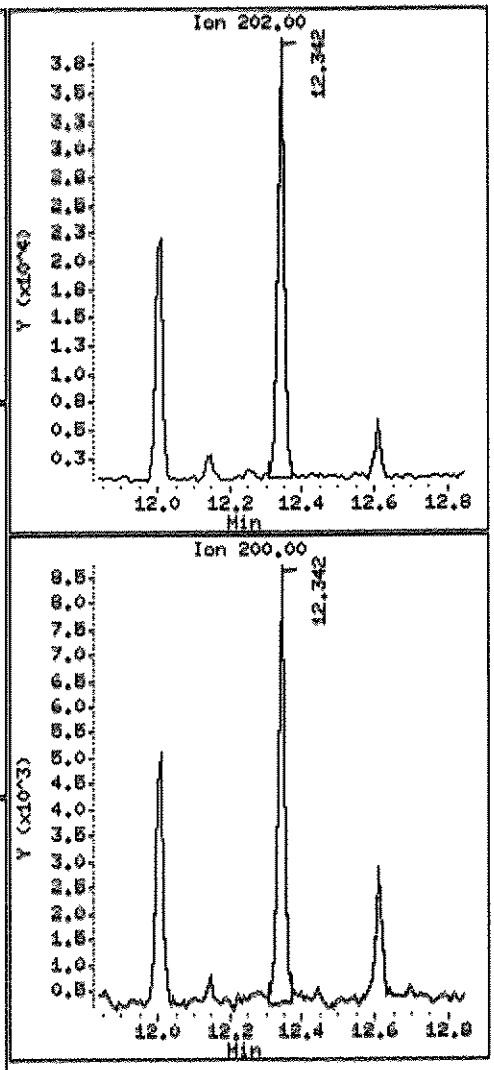
Sample Info: 1109191-05;1;15;1000;1;UG/KG;04-OCT-2011

Volume Injected (uL): 1.0 Operator: HEC

Column phase: fused silica Column diameter: 0.25

134 Pyrene Concentration: 29.32 UG/KG





Data File: \\ELABNSH05\TARGET\chem\bna4.i\102311B4E.b\0919105.D

Date : 24-OCT-2011 01:11

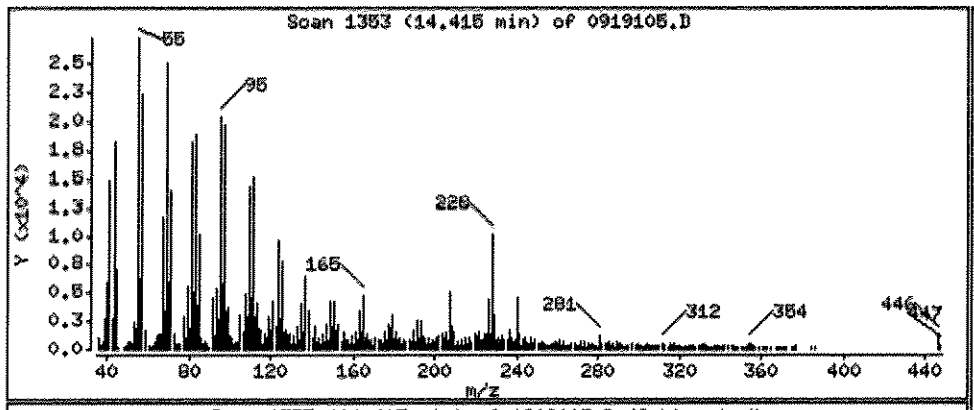
Client ID: FLC-4-SS02-0624-092 Instrument: bna4.i

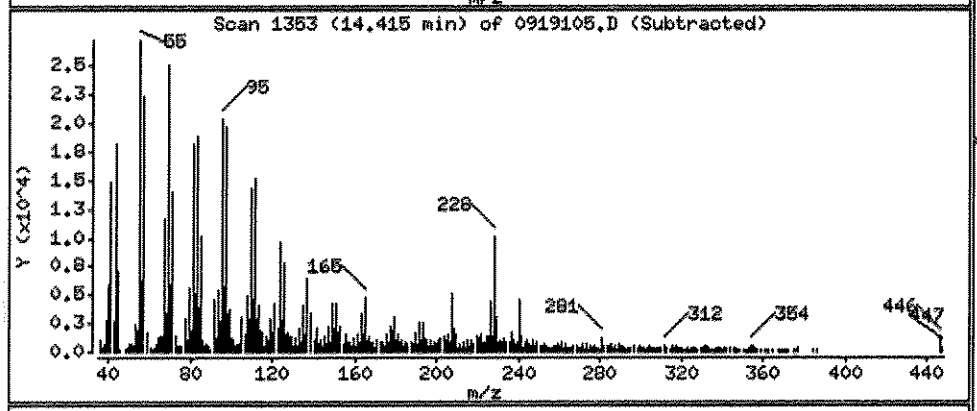
Sample Info: 1109191-05;1;15;1000;1;UG/KG;04-OCT-2011

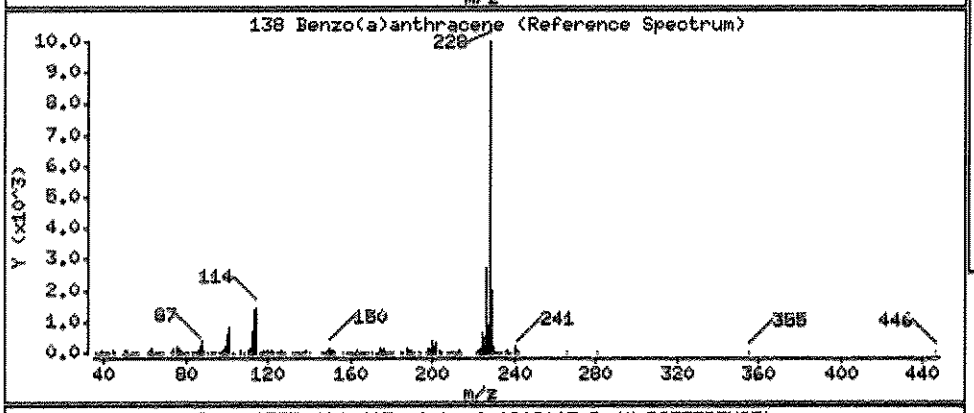
Volume Injected (uL): 1.0 Operator: HEC

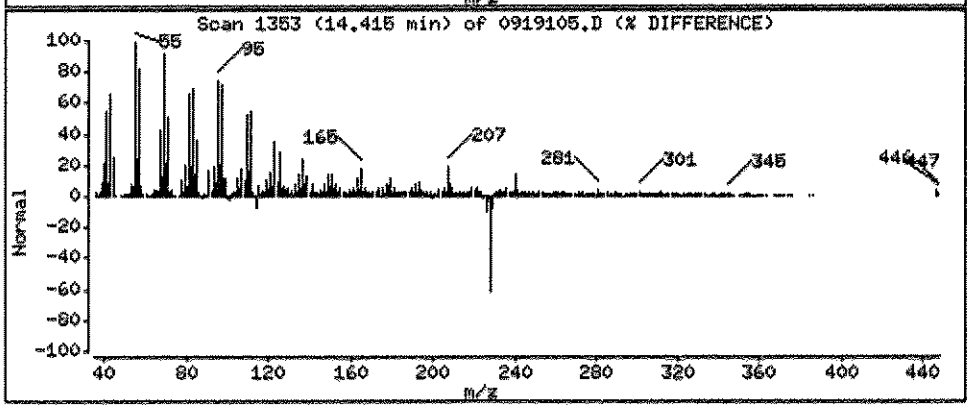
Column phase: fused silica Column diameter: 0.25

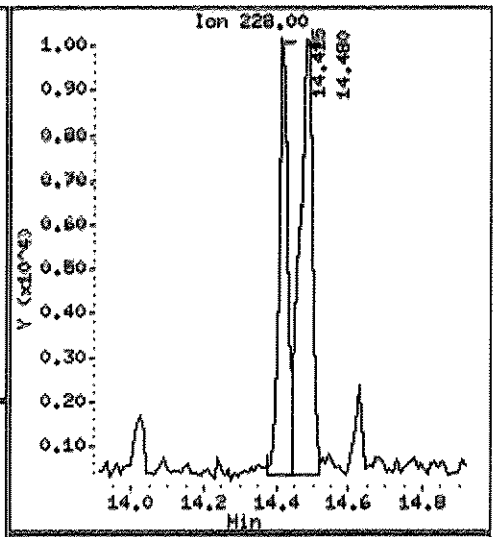
138 Benzo(a)anthracene Concentration: 15.71 UG/KG

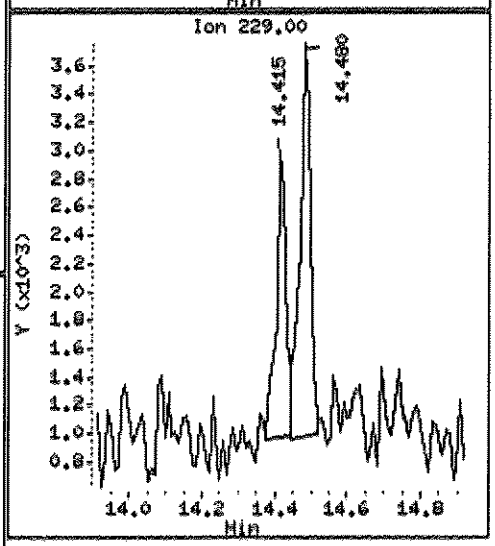












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Date : 24-OCT-2011 01:11

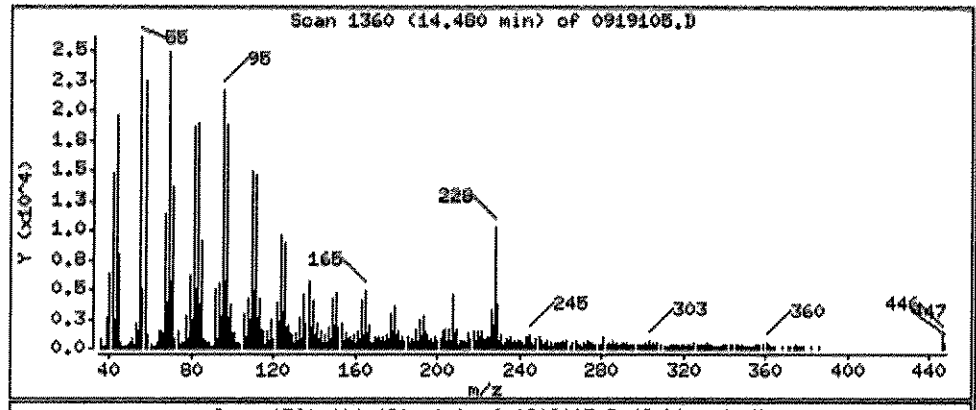
Client ID: FLC-4-SS02-0624-092 Instrument: bna4.i

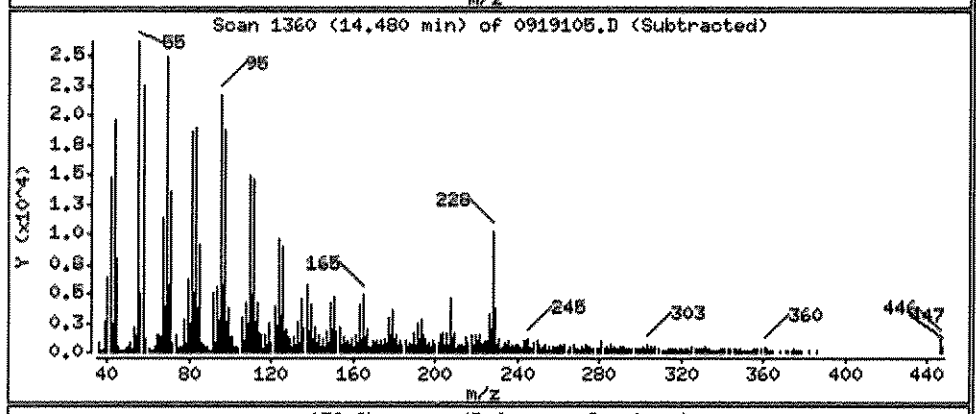
Sample Info: 1109191-05;1;15;1000;1;UG/KG;04-OCT-2011

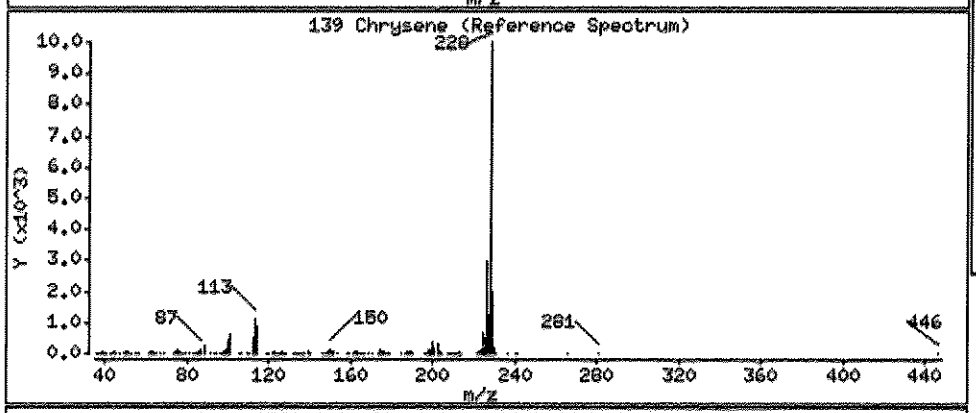
Volume Injected (uL): 1.0 Operator: MEC

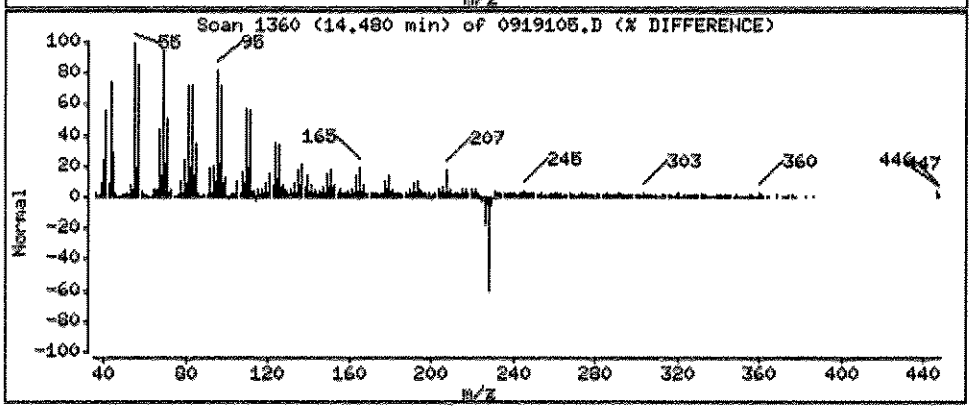
Column phase: fused silica Column diameter: 0.25

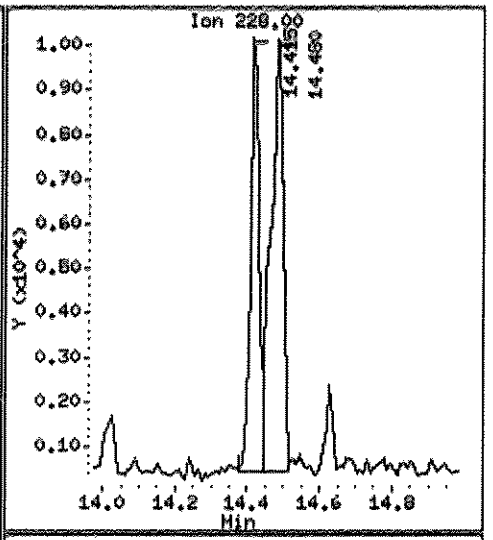
139 Chrysene Concentration: 22.92 UG/KG

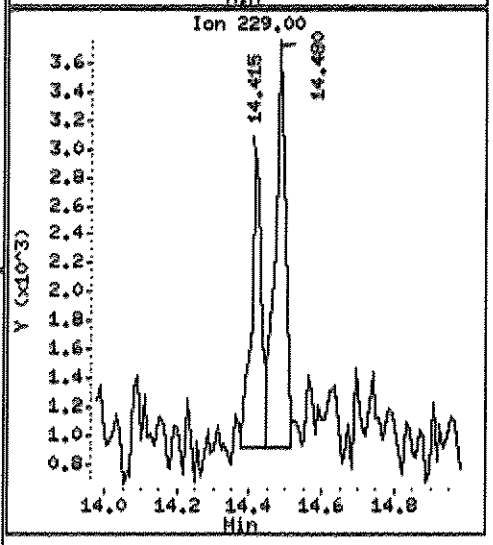












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Date : 24-OCT-2011 01:11

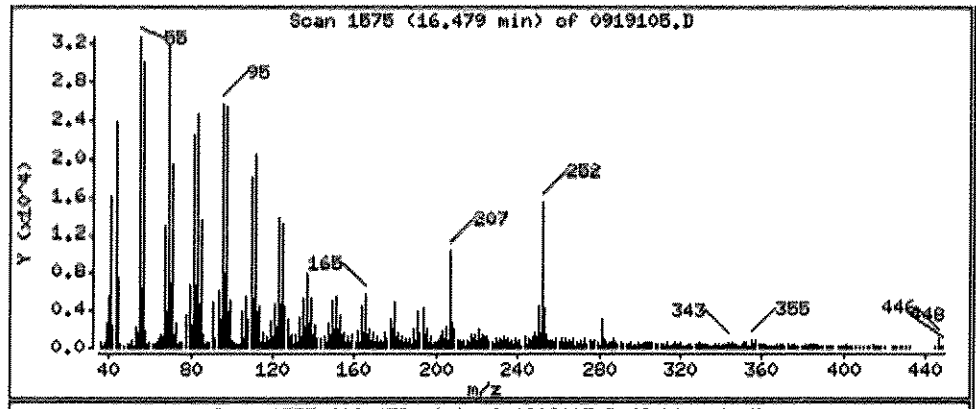
Client ID: FLC-4-SS02-0624-092 Instrument: bna4.i

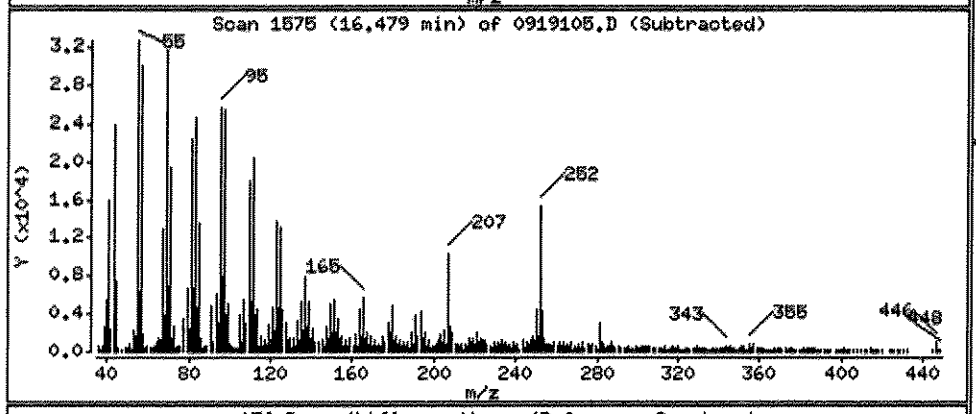
Sample Info: 1109191-05;1;15;1000;1;UG/KG;04-OCT-2011

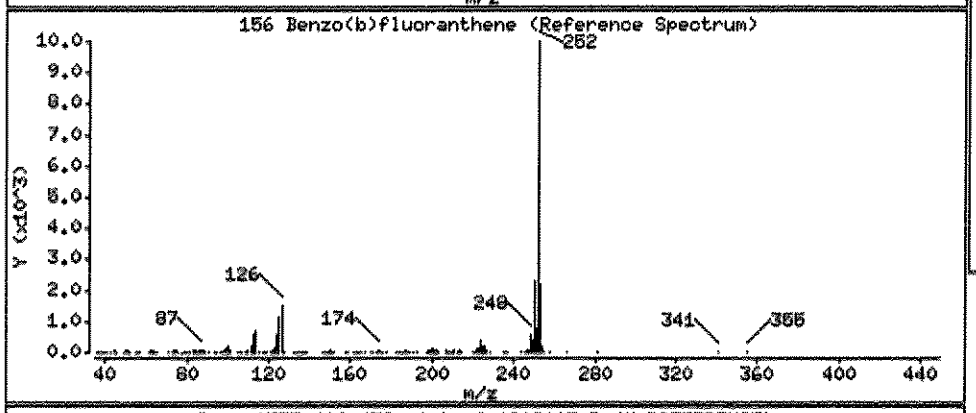
Volume Injected (uL): 1.0 Operator: HEC

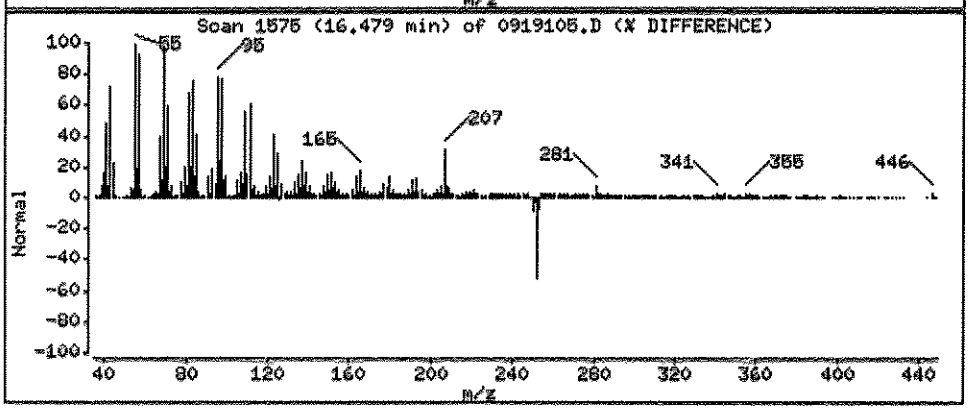
Column phase: fused silica Column diameter: 0.25

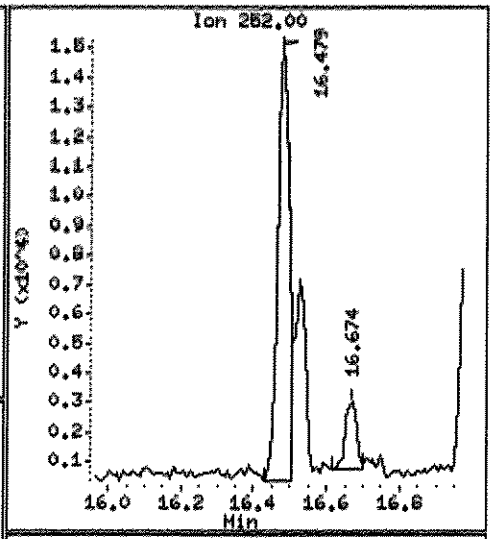
156 Benzo(b)fluoranthene Concentration: 39.15 UG/KG

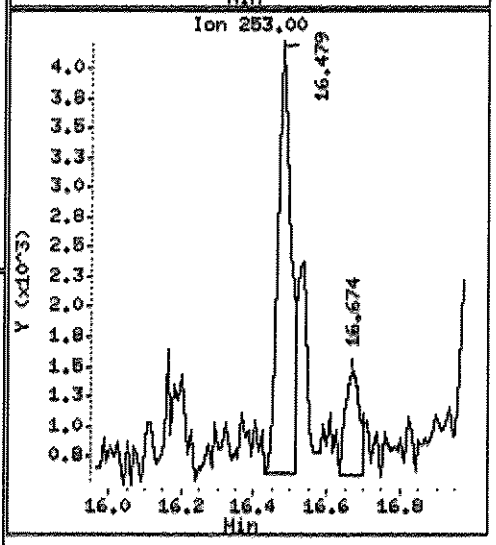












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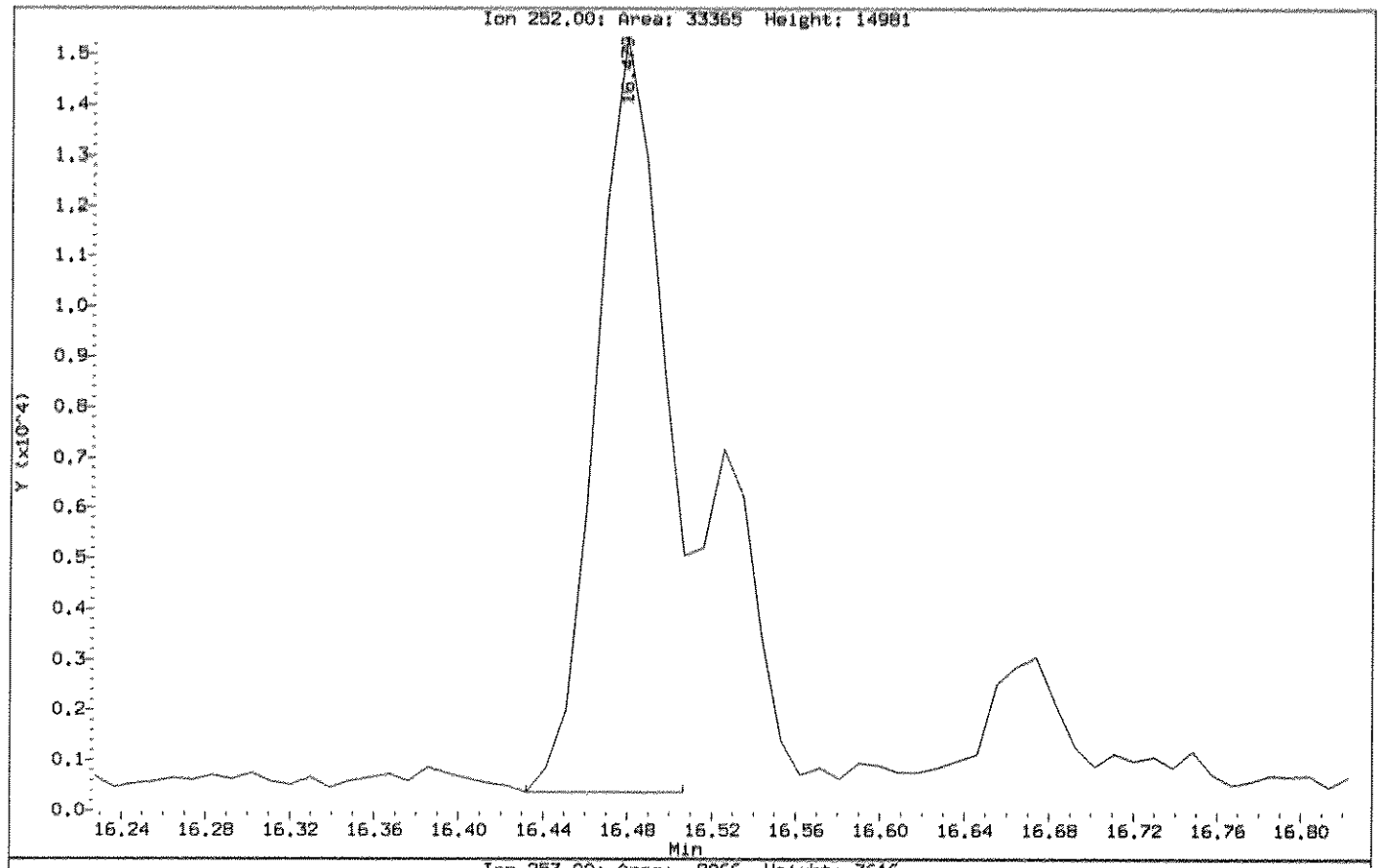
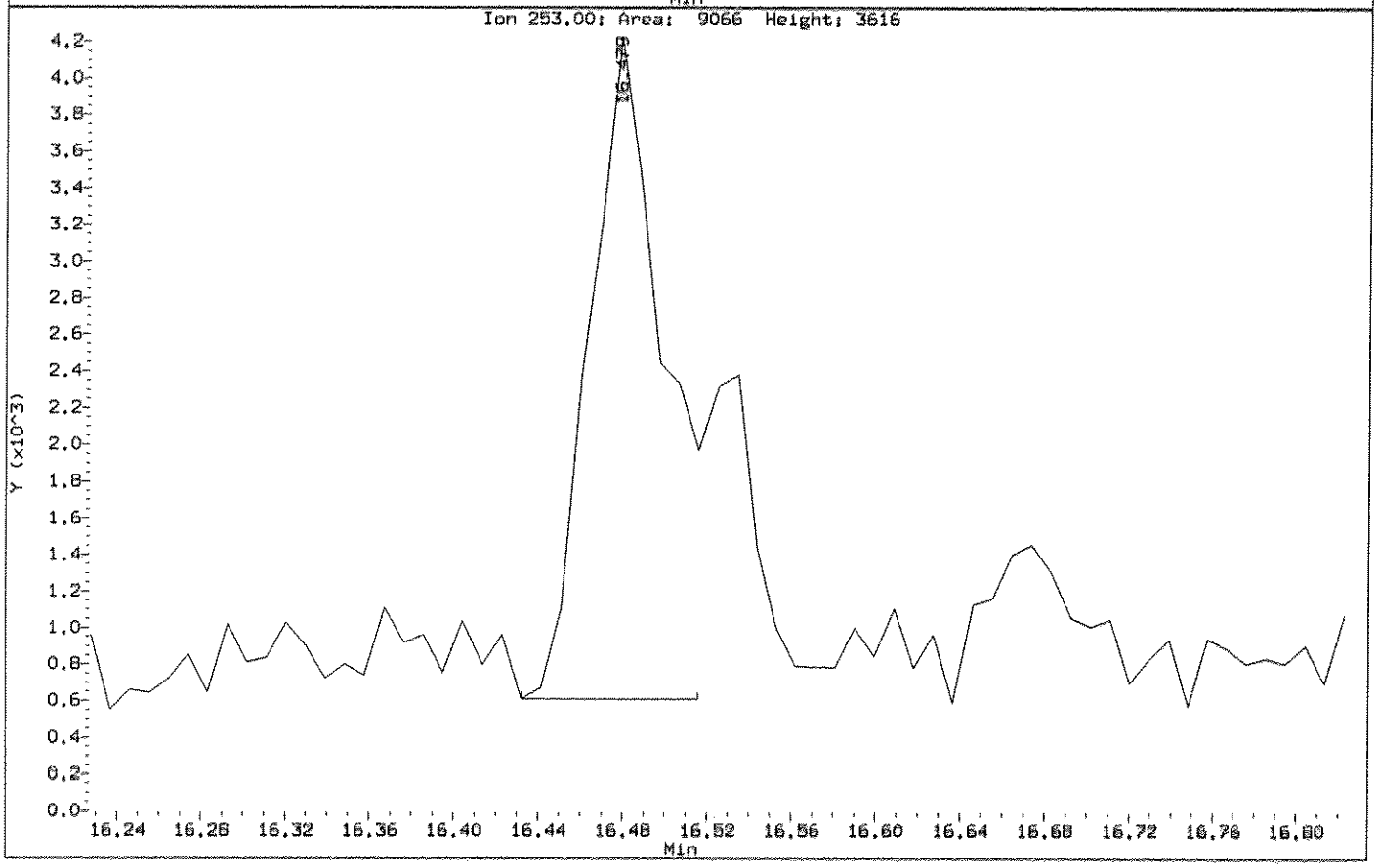
Injection Date: 24-OCT-2011 01:11
Instrument: bna4.i
Client Sample ID: FLC-4-SS02-0624-092

Compound: Benzo(k)fluoranthene
CAS Number: 207-08-9





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Date : 24-OCT-2011 01:11

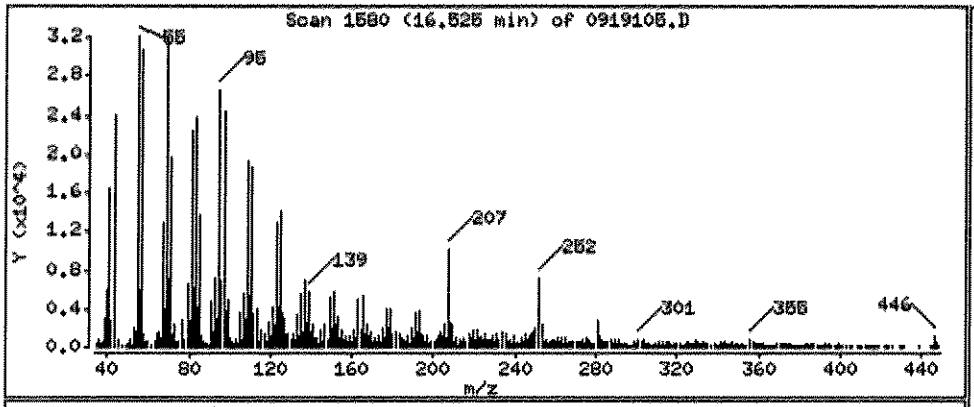
Client ID: FLC-4-SS02-0624-092 Instrument: bna4.i

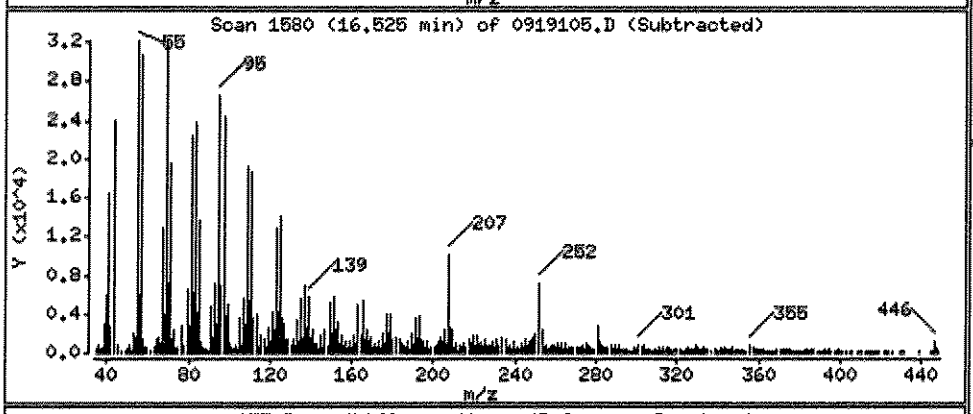
Sample Info: 1109191-05;1;15;1000;1;UG/KG;04-OCT-2011

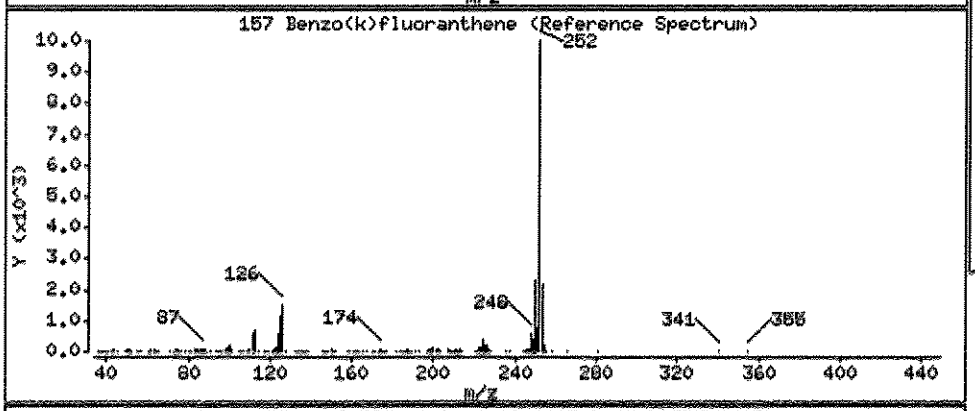
Volume Injected (uL): 1.0 Operator: MEC

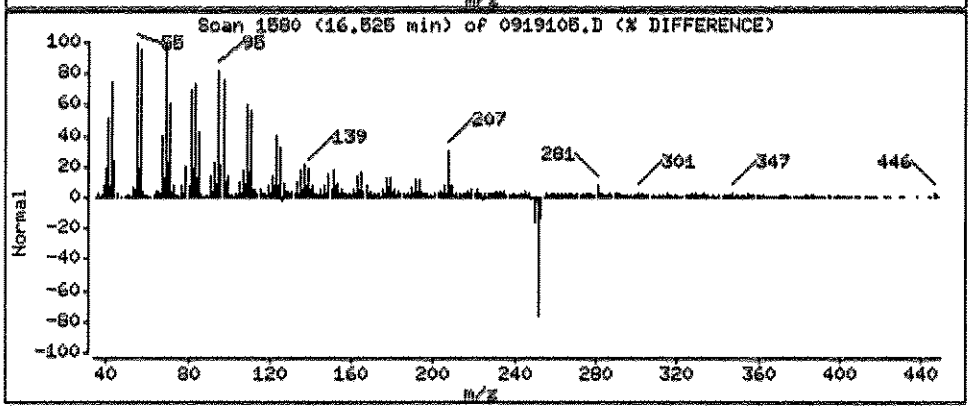
Column phase: fused silica Column diameter: 0.25

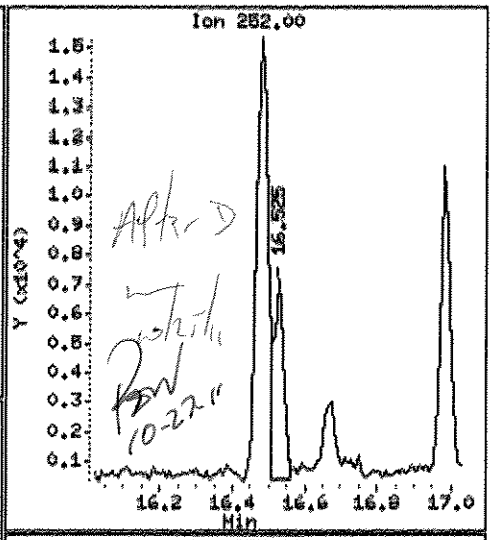
157 Benzo(k)fluoranthene Concentration: 17.09 UG/KG

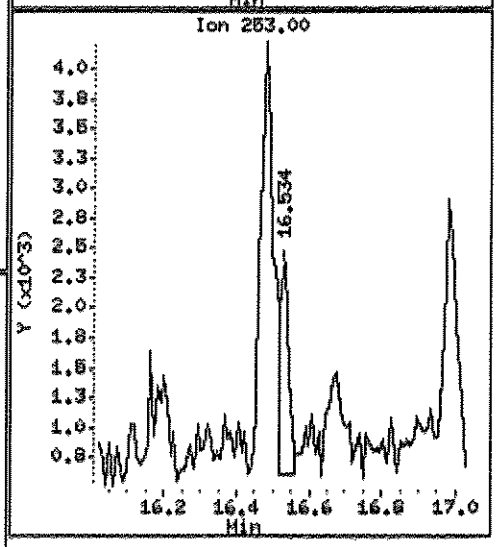












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Date : 24-OCT-2011 01:11

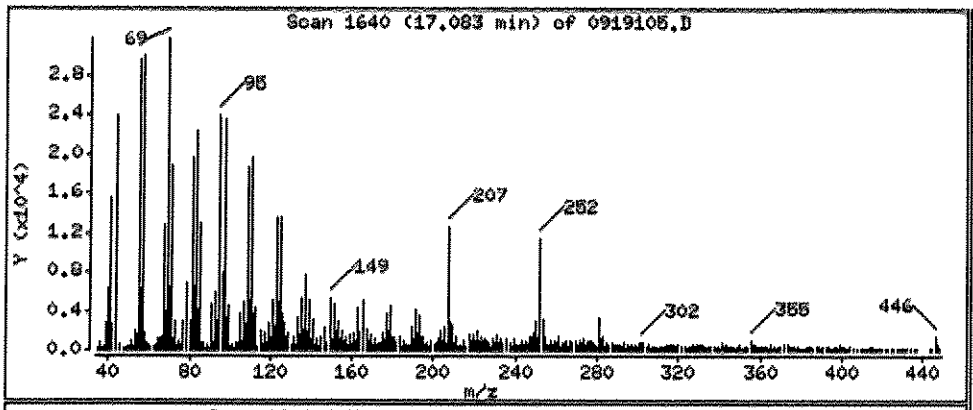
Client ID: FLC-4-SS02-0624-092 Instrument: bna4.i

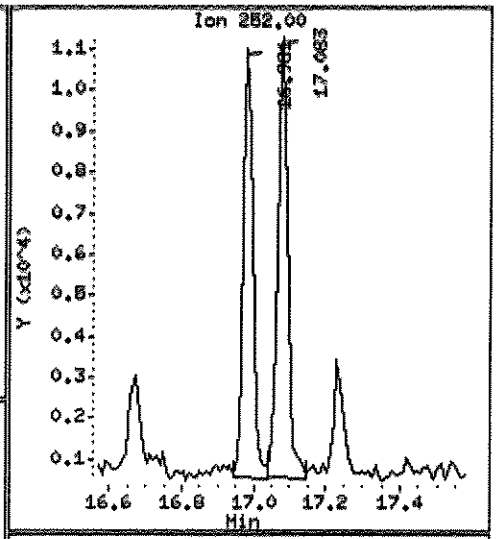
Sample Info: 1109191-05;1;15;1000;1;UG/KG;04-OCT-2011

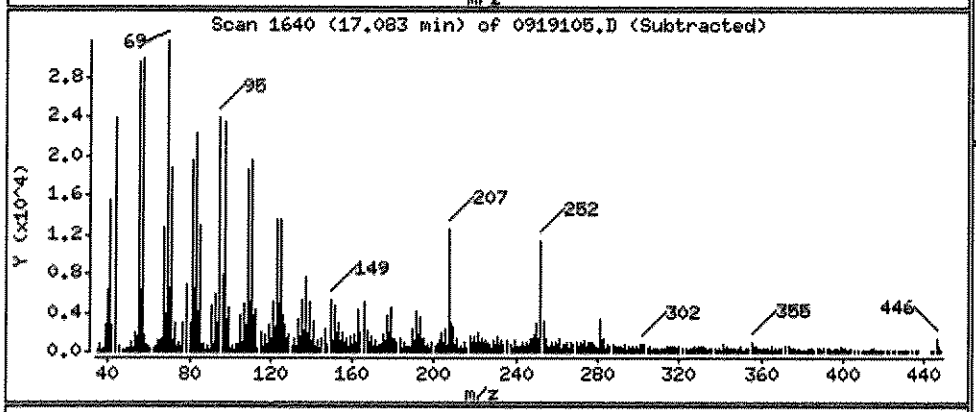
Volume Injected (uL): 1.0 Operator: MEC

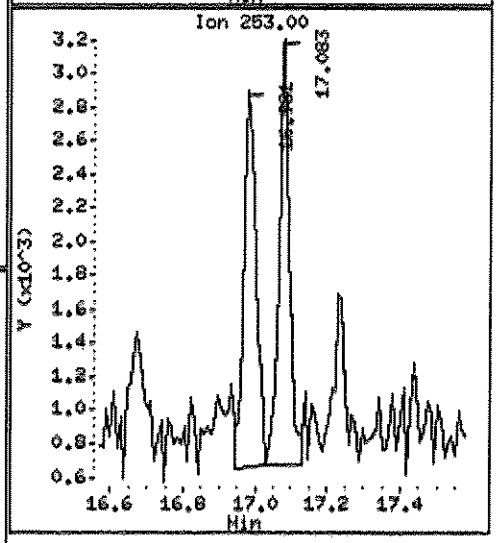
Column phase: fused silica Column diameter: 0.25

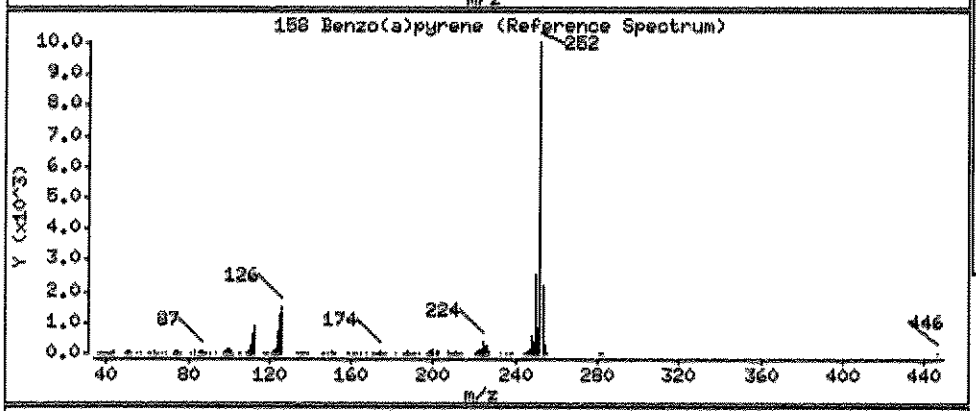
158 Benzo(a)pyrene Concentration: 31.13 UG/KG

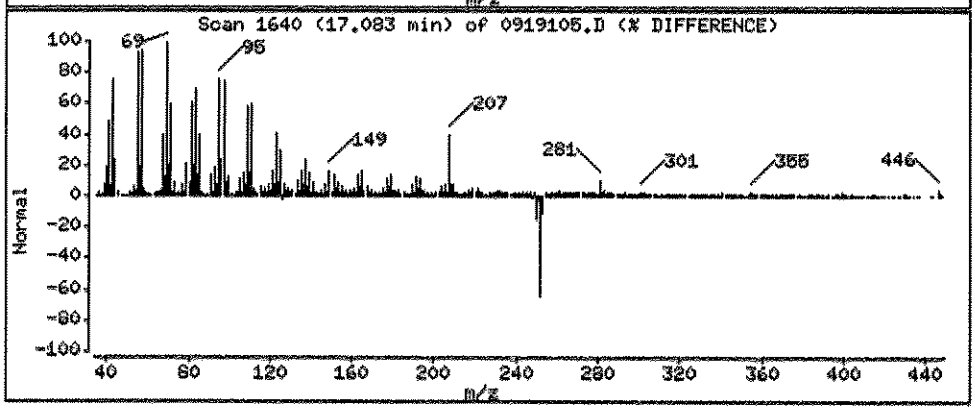












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Date : 24-OCT-2011 01:11

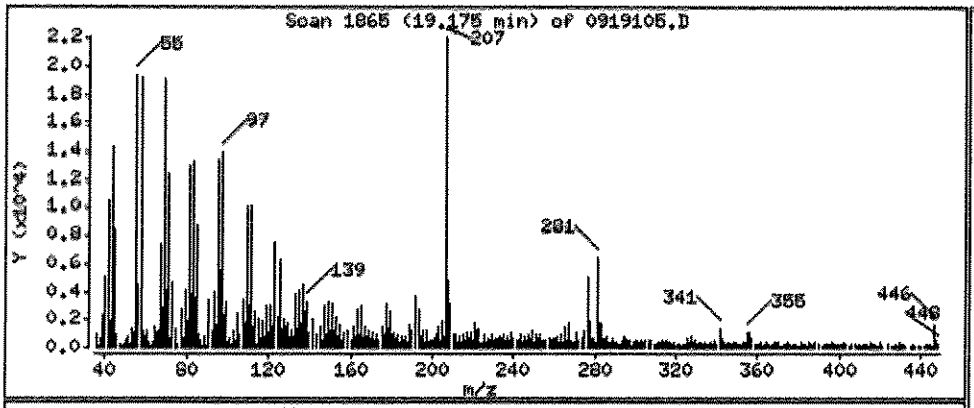
Client ID: FLC-4-SS02-0624-092 Instrument: bna4.i

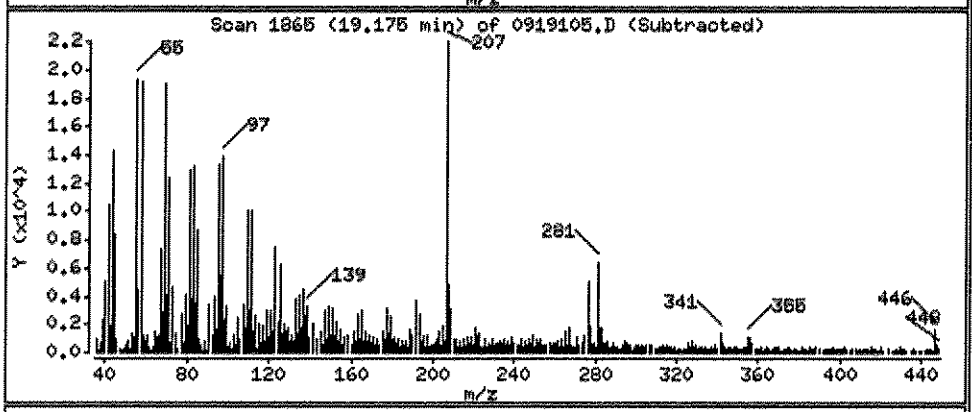
Sample Info: 1109191-05;1;15;1000;1;UG/KG;04-OCT-2011

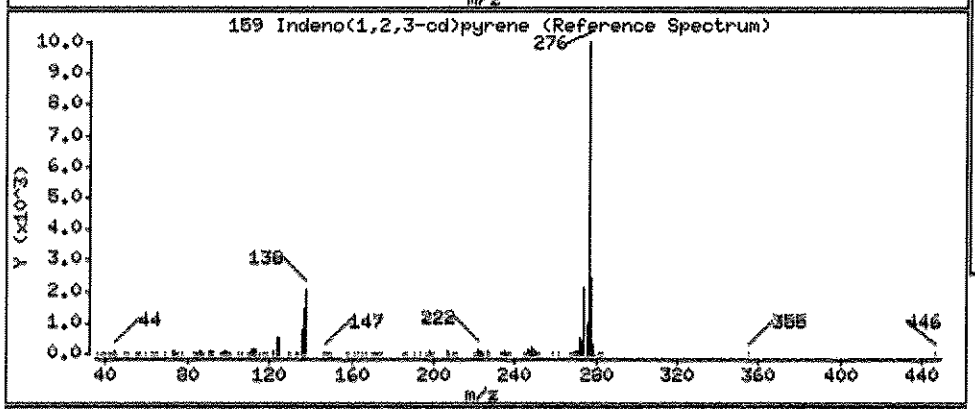
Volume Injected (uL): 1.0 Operator: HEC

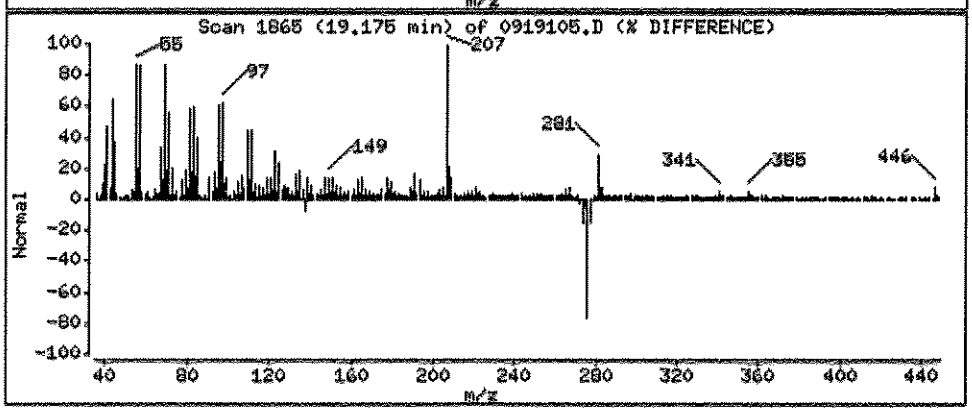
Column phase: fused silica Column diameter: 0.25

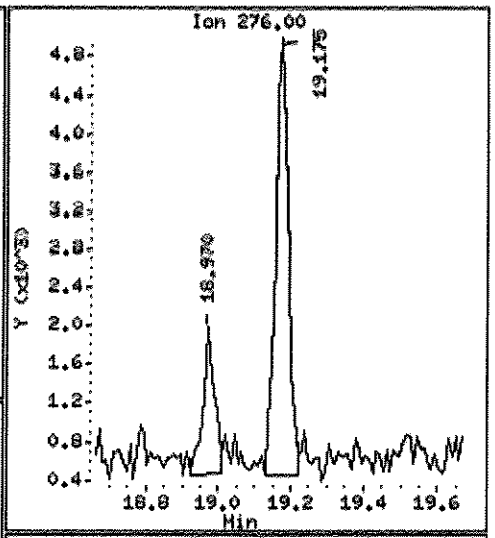
159 Indeno(1,2,3-cd)pyrene Concentration: 21.84 UG/KG

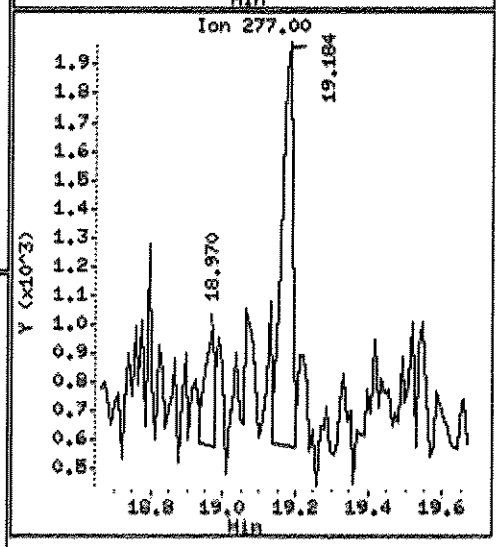












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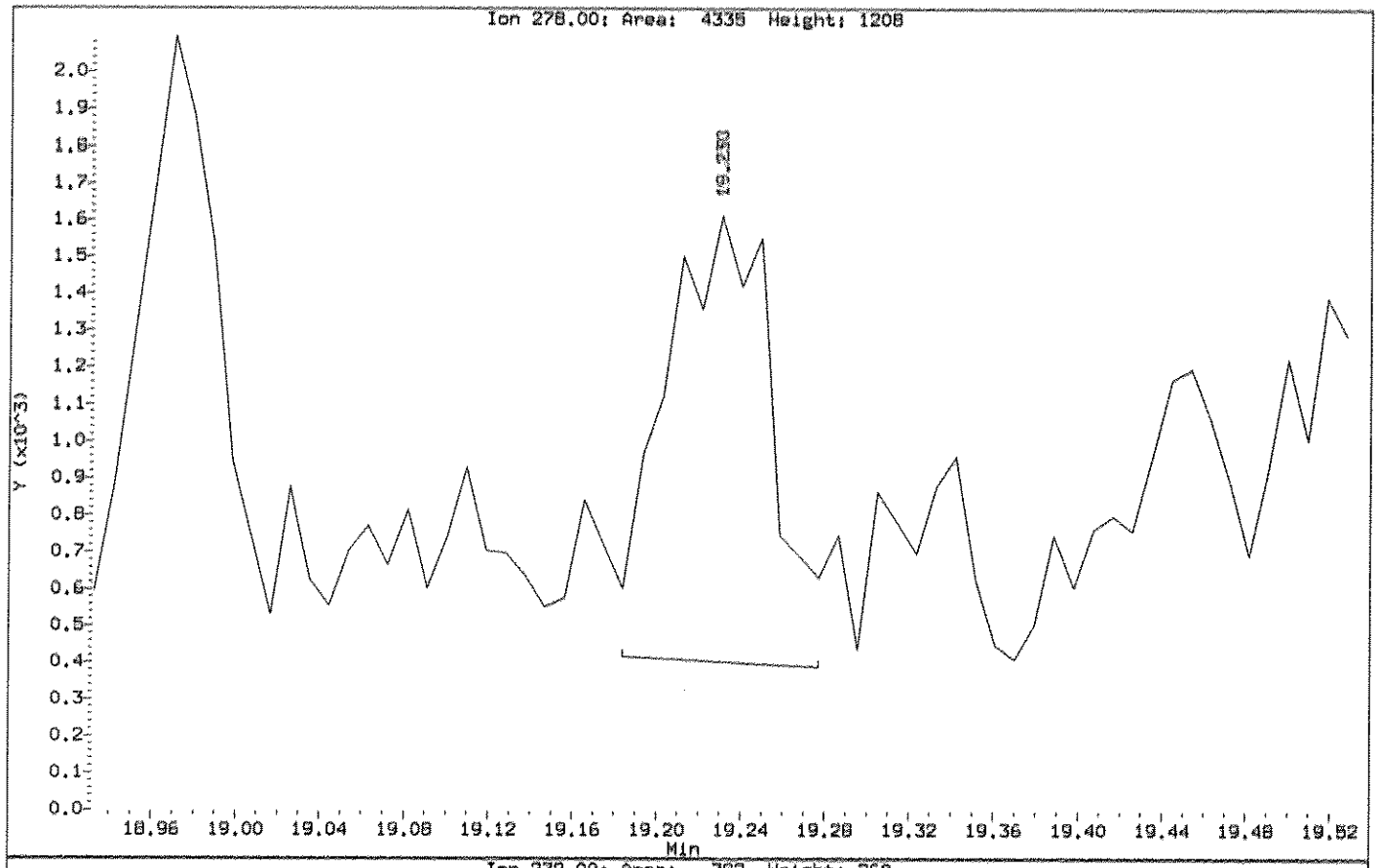
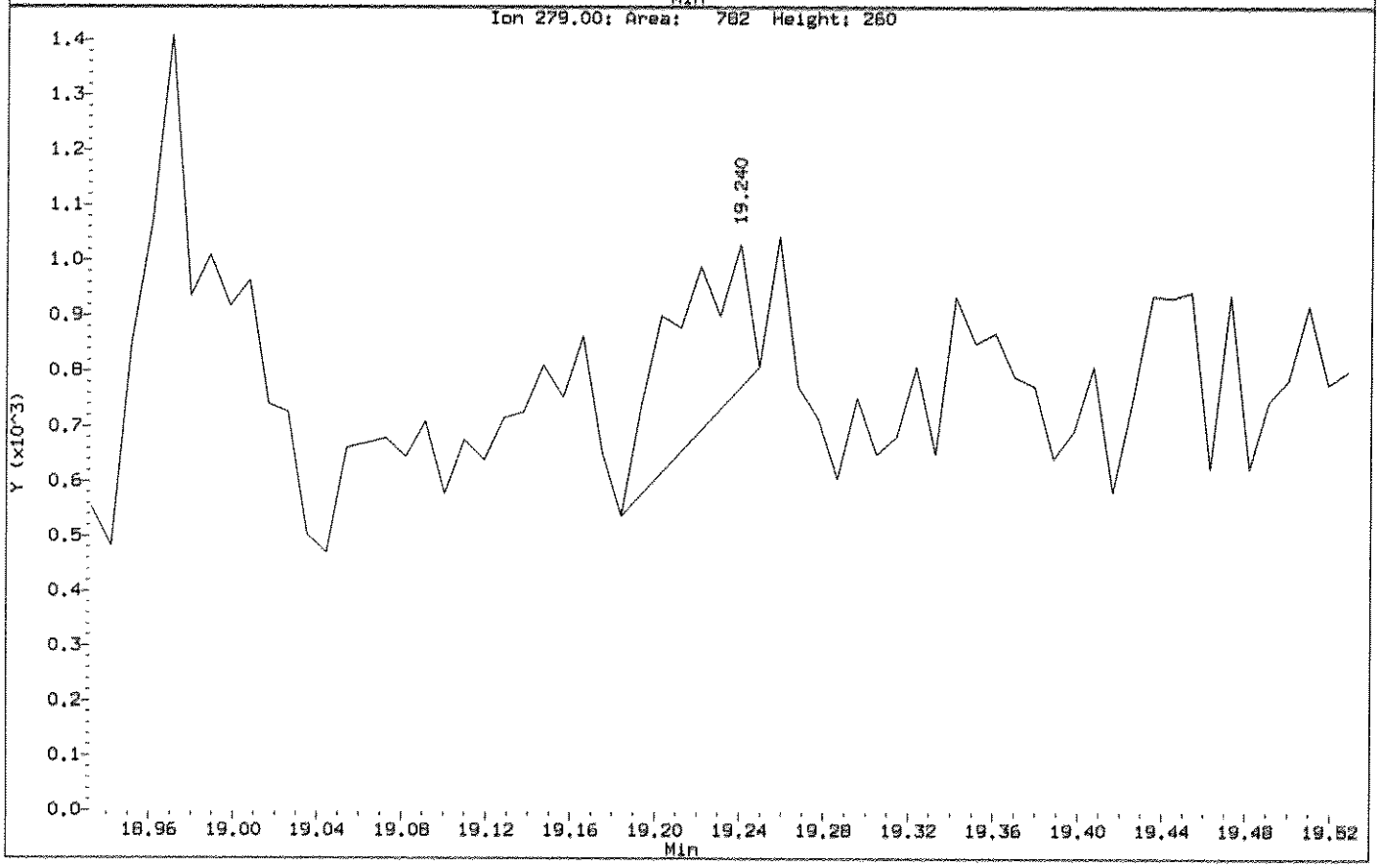
Injection Date: 24-OCT-2011 01:11
Instrument: bna4.i
Client Sample ID: FLC-4-SS02-0624-092

Compound: Dibenz(a,h)anthracene
CAS Number: 53-70-3





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Date : 24-OCT-2011 01:11

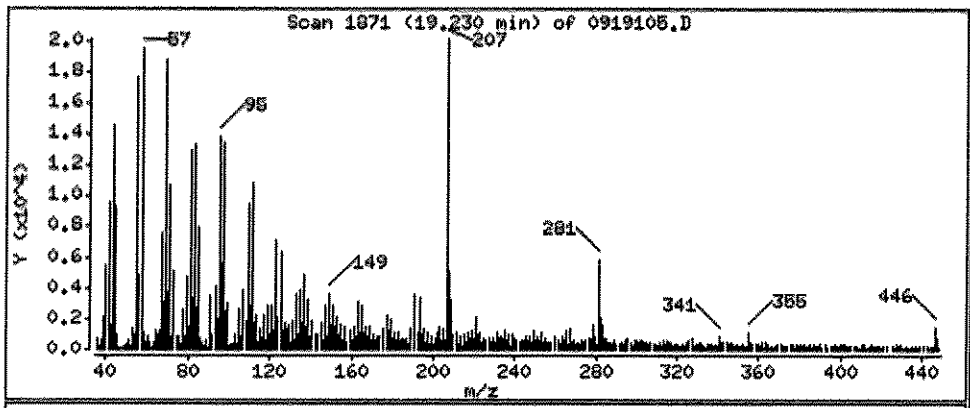
Client ID: FLC-4-SS02-0624-092 Instrument: bna4.i

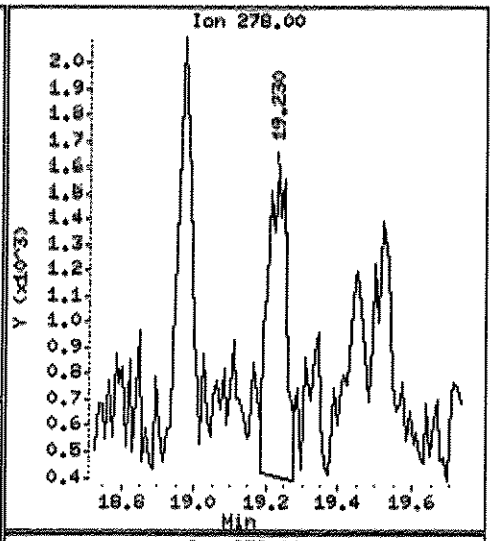
Sample Info: 1109191-05;1;15;1000;1;UG/KG;04-OCT-2011

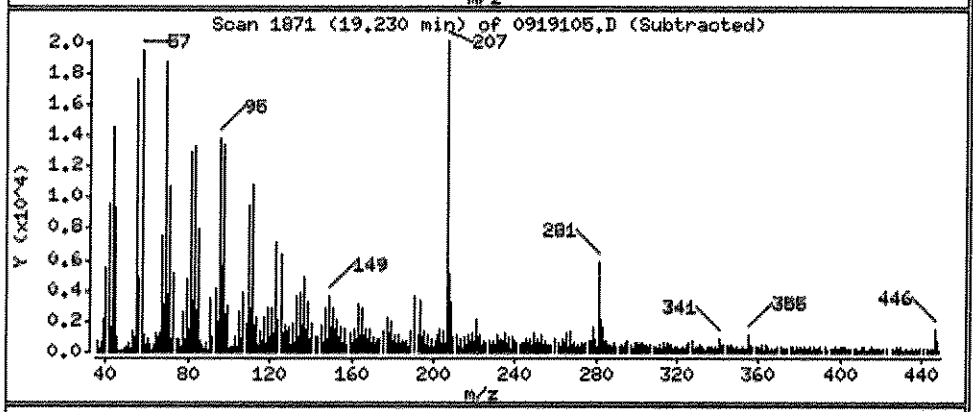
Volume Injected (uL): 1.0 Operator: HEC

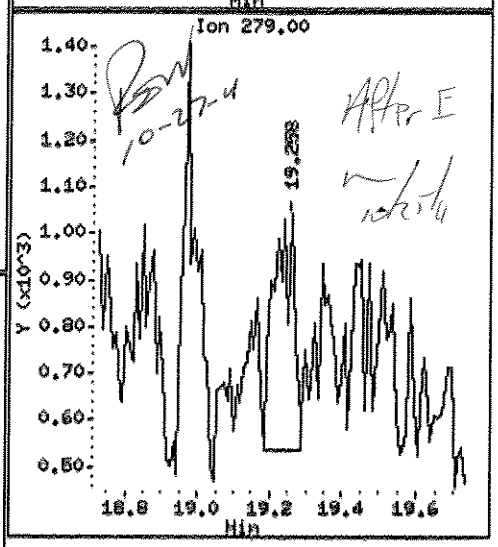
Column phase: Fused silica Column diameter: 0.25

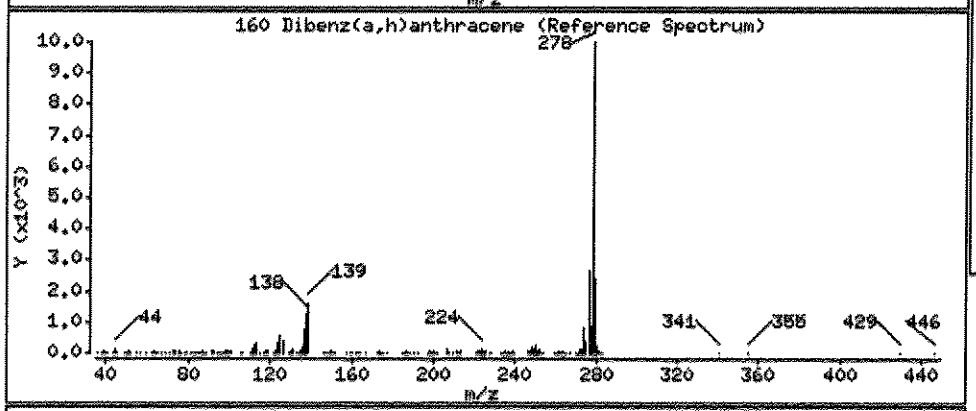
160 Dibenz(a,h)anthracene Concentration: 8.872 UG/KG

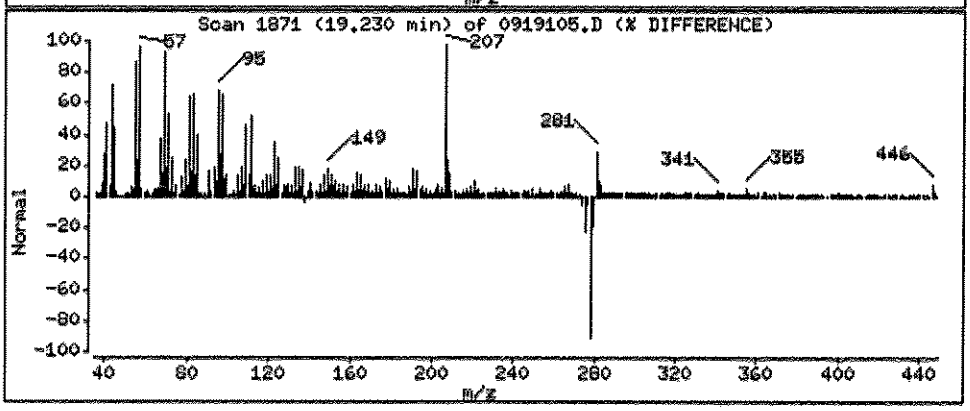












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Date : 24-OCT-2011 01:11

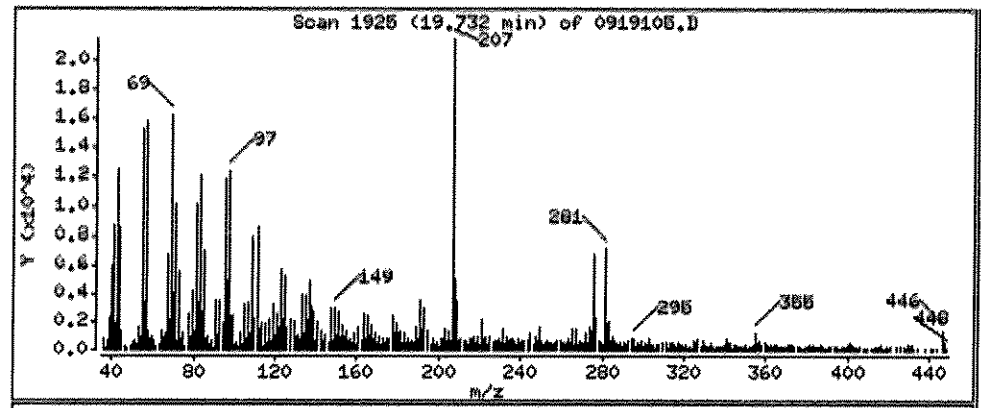
Client ID: FLC-4-SS02-0624-092 Instrument: bna4.i

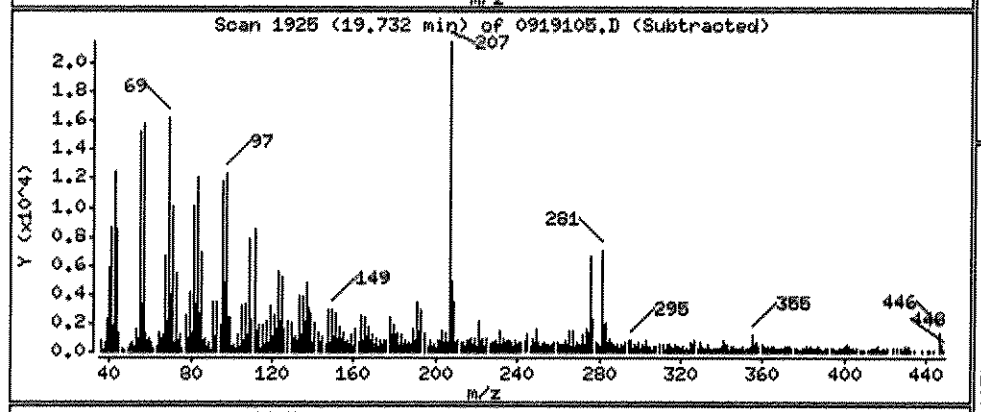
Sample Info: 1109191-05;1;15;1000;1;UG/KG;04-OCT-2011

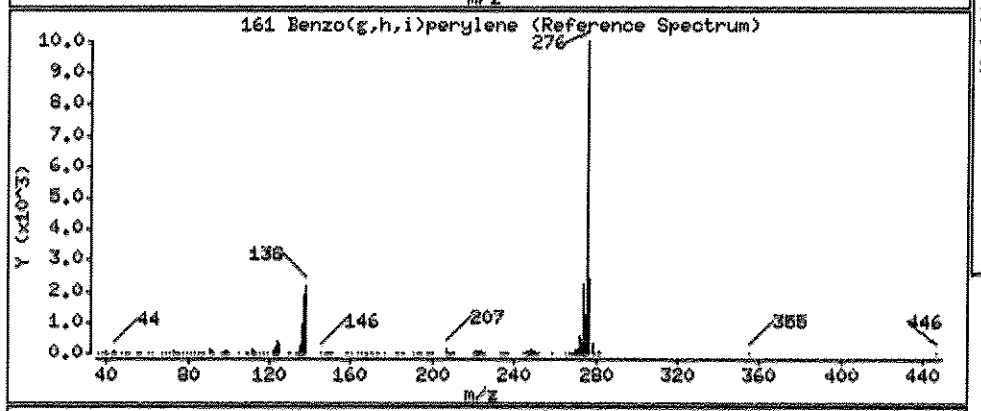
Volume Injected (uL): 1.0 Operator: HEC

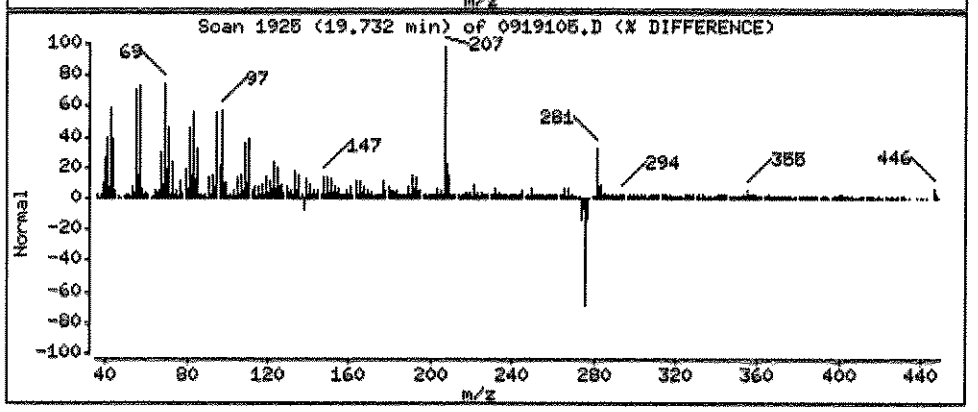
Column phase: fused silica Column diameter: 0.25

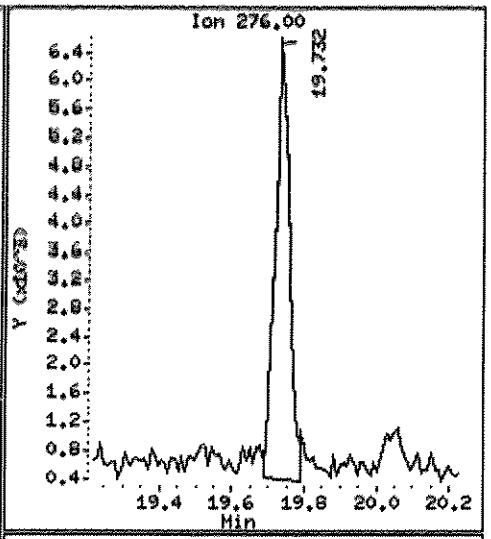
161 Benzo(g,h,i)perylene Concentration: 34.02 UG/KG

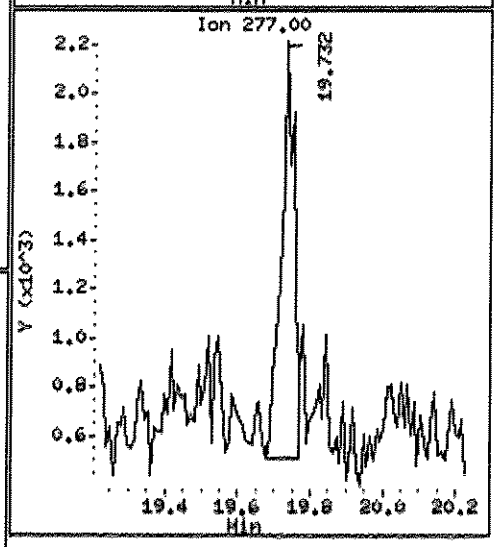












Data File: \\ELABNSH05\TARGET\chem\bna4.i\102311B4E.b\0919104D.D
Report Date: 25-Oct-2011 18:09

Laboratory Name

Data file : \\ELABNSH05\TARGET\chem\bna4.i\102311B4E.b\0919104D.D
Lab Smp Id: 1109191-04 Client Smp ID: FLC-4-SS02-0006-092
Inj Date : 24-OCT-2011 03:10 MS Autotune Date: 23-OCT-2011 10:06
Operator : MEC Inst ID: bna4.i
Smp Info : 1109191-04;10;15;1000;1;UG/KG;04-OCT-2011
Misc Info : ;0;;;;1J03009;pahmisc.sub;
Comment :
Method : \\ELABNSH05\TARGET\chem\bna4.i\102311B4E.b\IXBN4LOW.m
Meth Date : 25-Oct-2011 18:04 mcobb Quant Type: ISTD
Cal Date : 24-AUG-2011 18:33 Cal File: SEQ-CAL9.D
Als bottle: 33
Dil Factor: 10.00000
Integrator: HP RTE Compound Sublist: pahmisc.sub
Target Version: 4.04
Processing Host: TARGET09_VM

Concentration Formula: Amt * DF * Uf * Vt*Vi/(Amt * Vi * (Solids/100))

Name	Value	Description
DF	10.000	Dilution Factor
Uf	1.000	ng unit correction factor
Vt	1000.000	Volume of final extract (uL)(1000 low, 2
Amt	15.000	Mass of initial extraction
Vi	1.000	Volume injected (uL)
Solids	100.000	Percent Solids

RSN 10-27-11

Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS ON-COLUMN (ng/ul)	FINAL (UG/KG)
* 102 Phenanthrene-d10	188	10.426	10.417	(1.000)	108338	1.00000	
51 Naphthalene	128	6.494	6.485	(0.623)	10932	0.06779	45.19
55 2-Methylnaphthalene	142	7.330	7.321	(0.703)	5592	0.05788	38.59
56 1-Methylnaphthalene	142	7.442	7.433	(0.714)	3624	0.03869	25.80(a)
$ 74 2-Fluorobiphenyl	172	7.767	7.768	(0.745)	318757	3.11376	2076
77 Acenaphthylene	152	8.418	8.418	(0.807)	31910	0.22739	151.6
$ 107 2,4,6-Tribromophenol	330	9.571	9.562	(0.918)	80942	4.31552	2877
111 Phenanthrene	178	10.454	10.454	(1.003)	17466	0.13854	92.36
112 Anthracene	178	10.519	10.519	(1.009)	7077	0.05727	38.18
116 Fluoranthene	202	12.006	11.997	(1.152)	66772	0.56244	375.0
134 Pyrene	202	12.341	12.341	(1.184)	97742	0.81103	540.7
* 154 Perylene-d12	264	17.185	17.175	(1.000)	38778	1.00000	
$ 135 Terphenyl-d14	244	12.611	12.602	(1.210)	172942	2.51688	1678

10/25/11

Data File: \\ELABNSH05\TARGET\chem\bna4.i\102311B4E.b\0919104D.D
Report Date: 25-Oct-2011 18:09

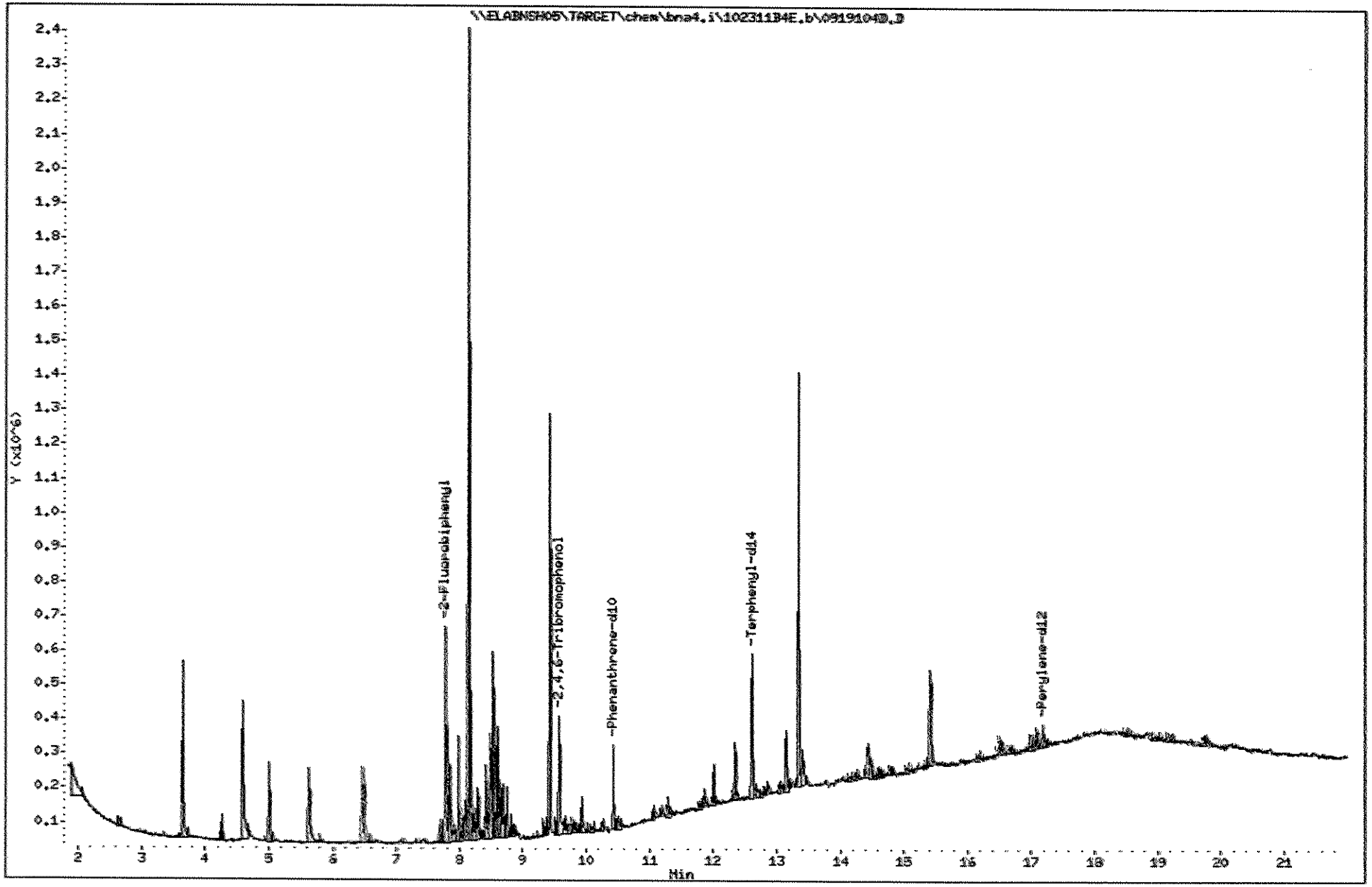
Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS ON-COLUMN (ng/ul)	CONCENTRATIONS FINAL (UG/KG)
138 Benzo(a)anthracene	228	14.424	14.414	(1.383)	36139	0.47855	319.0
139 Chrysene	228	14.489	14.480	(1.390)	46580	0.61257	408.4
156 Benzo(b)fluoranthene	252	16.478	16.469	(0.959)	59421	1.14775	765.2
157 Benzo(k)fluoranthene	252	16.524	16.525	(0.962)	20748	0.39600	264.0(M)
158 Benzo(a)pyrene	252	17.082	17.073	(0.994)	37059	0.86753	578.4
159 Indeno(1,2,3-cd)pyrene	276	19.174	19.165	(1.116)	32818	0.72888	485.9
160 Dibenz(a,h)anthracene	278	19.230	19.230	(1.119)	5496	0.17892	119.3
161 Benzo(g,h,i)perylene	276	19.741	19.723	(1.149)	24691	0.77998	520.0

QC Flag Legend

a - Target compound detected but, quantitated amount
Below Limit Of Quantitation(BLOQ).
M - Compound response manually integrated.

Data File: \\ELABNSH05\TARGET\chem\bna4.i\102311B4E.b\09191040.D
Date : 24-OCT-2011 03:10
Client ID: FLC-4-SS02-0006-092
Sample Info: 1109191-04;10;15;1000;1;US;VB;04-OCT-2011
Volume Injected (uL): 1.0
Column phase: fused silica

Instrument: bna4.i
Operator: MEC
Column diameter: 0.25



1058

1109191

Data File: \\ELABNSW05\TARGET\chem\bna4.i\102311D4E.b\0919104D.D

Date : 24-OCT-2011 03:10

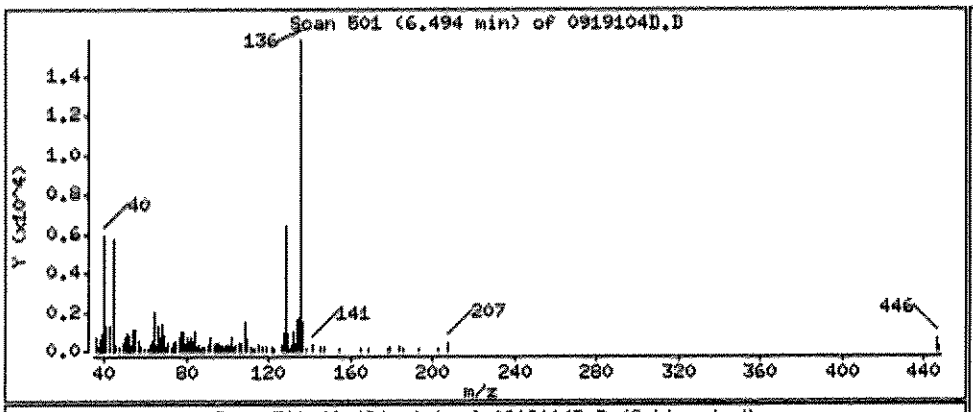
Client ID: FLC-4-SS02-0006-092 Instrument: bna4.i

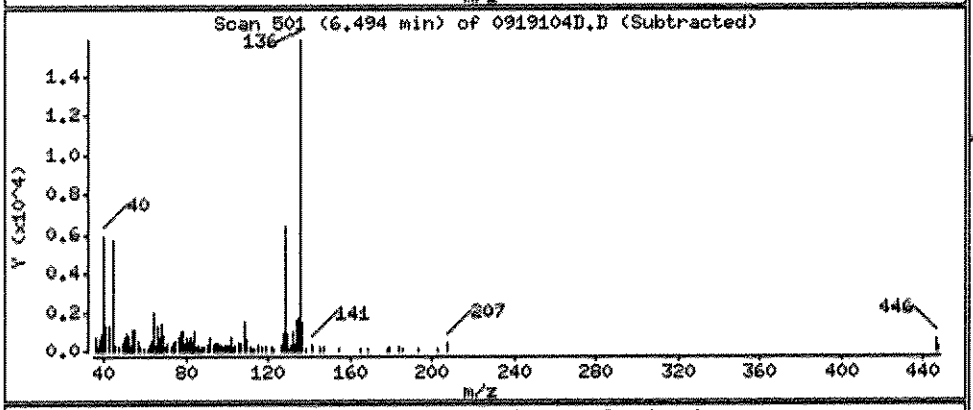
Sample Info: 1109191-04;10;15;1000;1;UG/KG;04-OCT-2011

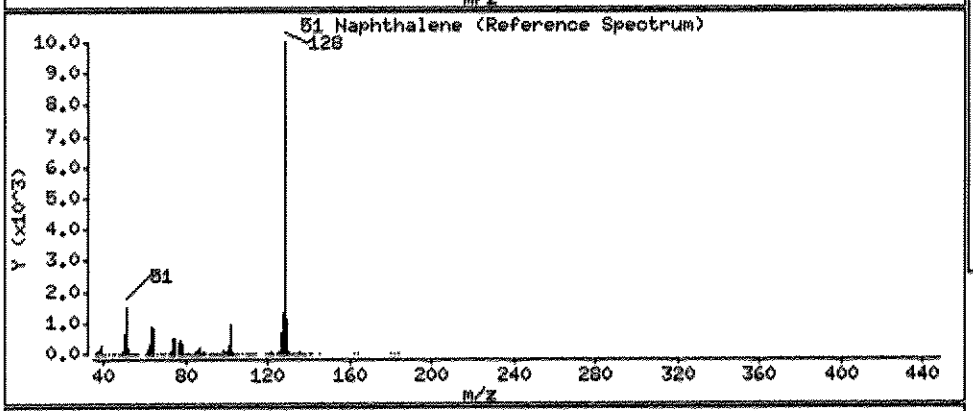
Volume Injected (uL): 1.0 Operator: HEC

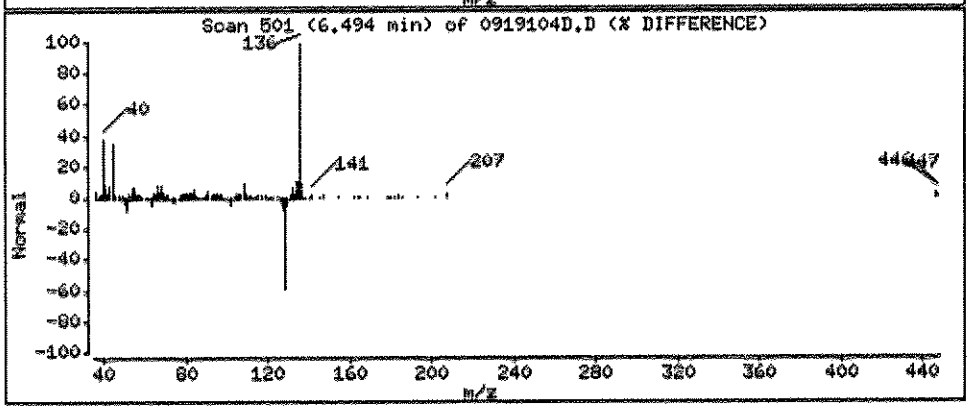
Column phase: fused silica Column diameter: 0.25

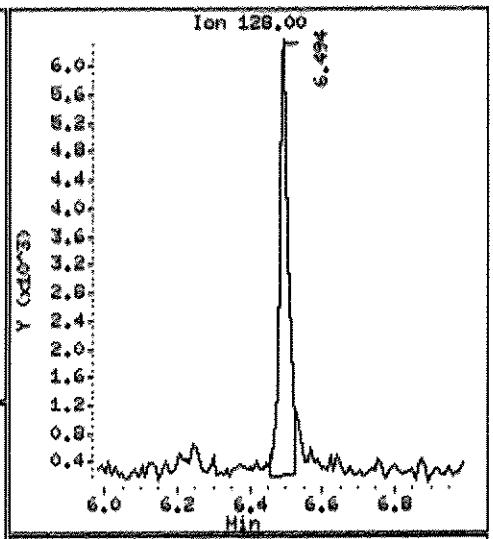
51 Naphthalene Concentration: 45.19 UG/KG

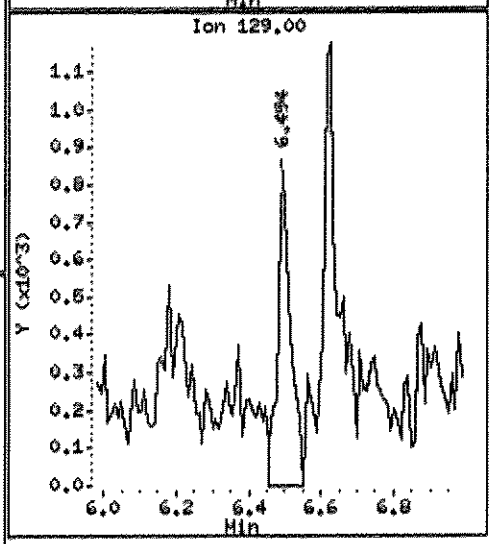












Data File: \\ELADNSHOB\TARGET\chem\bna4.i\10231104E.b\0919104D.D

Date : 24-OCT-2011 03:10

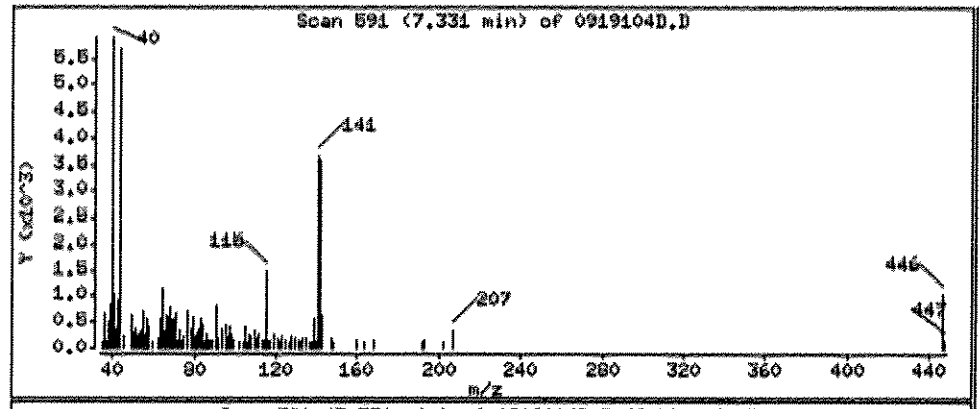
Client ID: FLC-4-SS02-0006-092 Instrument: bna4.i

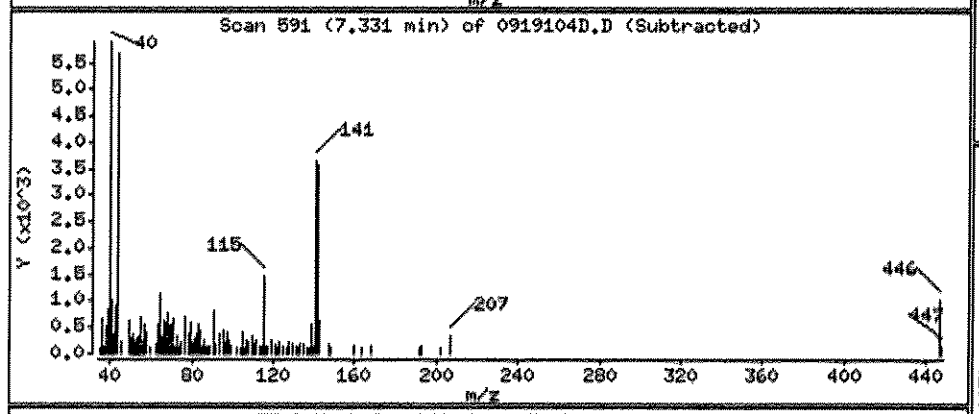
Sample Info: 1109191-04;10;15;1000;1;UG/KG;04-OCT-2011

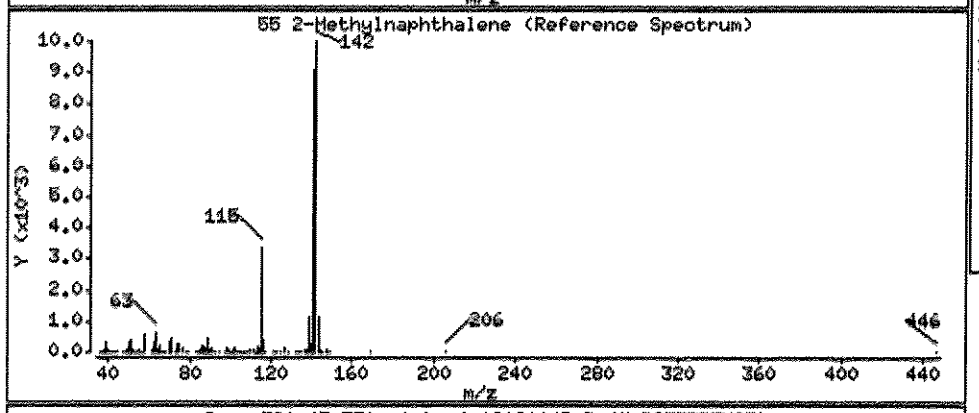
Volume Injected (uL): 1.0 Operator: HEC

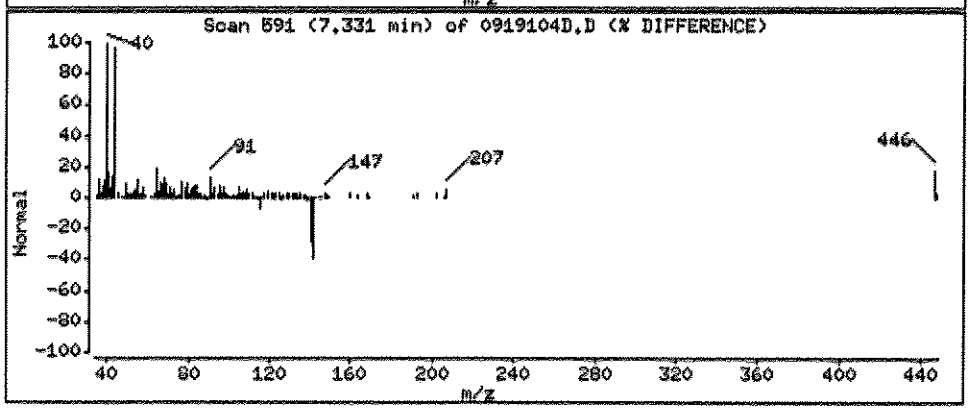
Column phase: fused silica Column diameter: 0.25

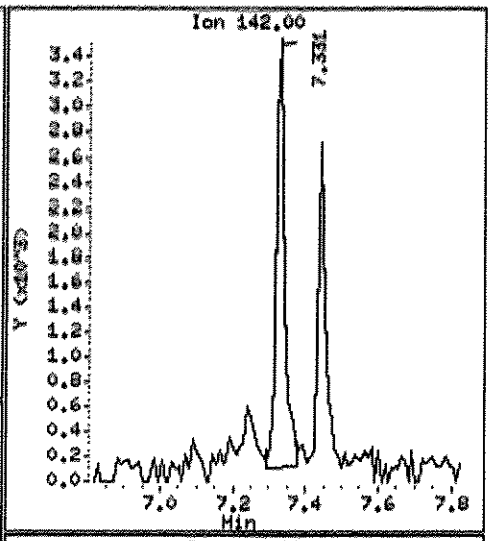
55 2-Methylnaphthalene Concentration: 38.89 UG/KG

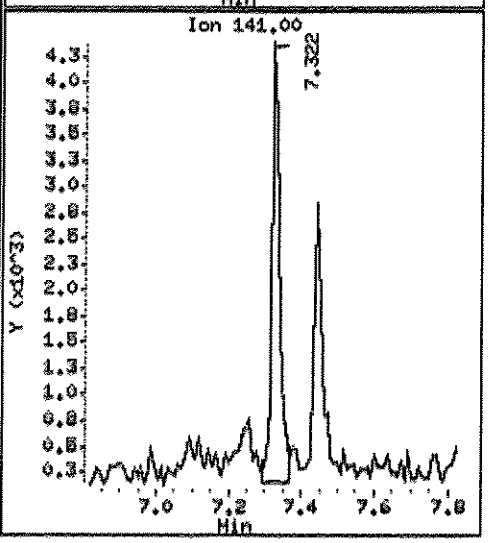












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Date : 24-OCT-2011 03:10

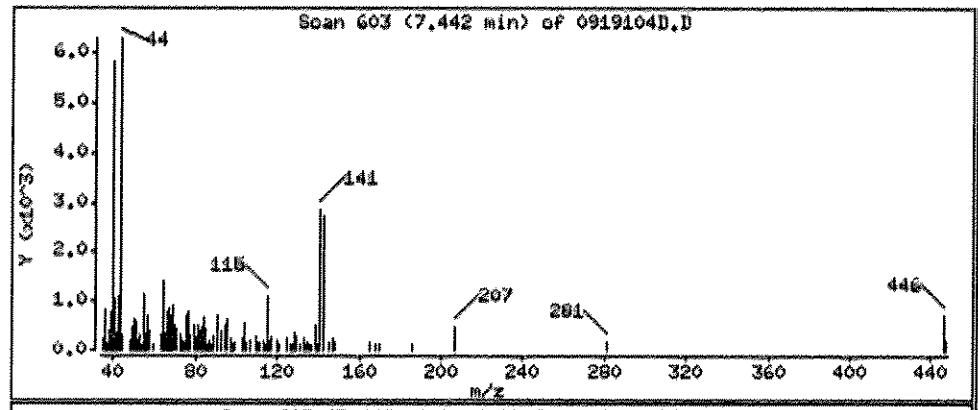
Client ID: FLC-4-SS02-0006-092 Instrument: bna4.i

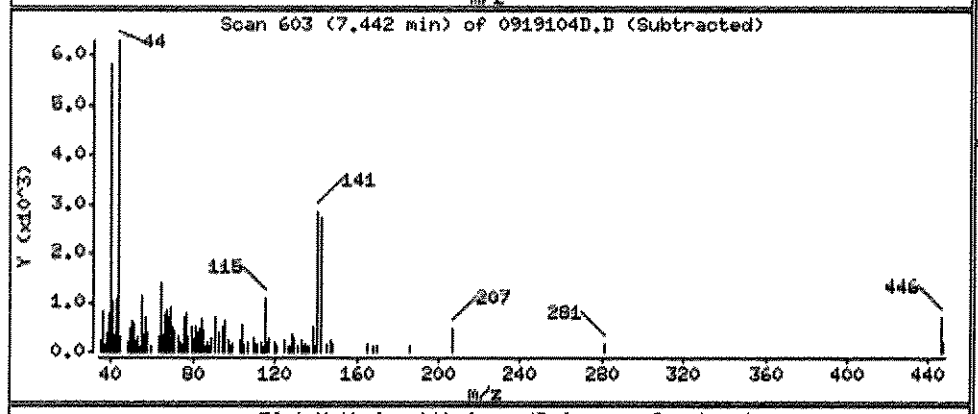
Sample Info: 1109191-04;10;15;1000;1;UG/KG;04-OCT-2011

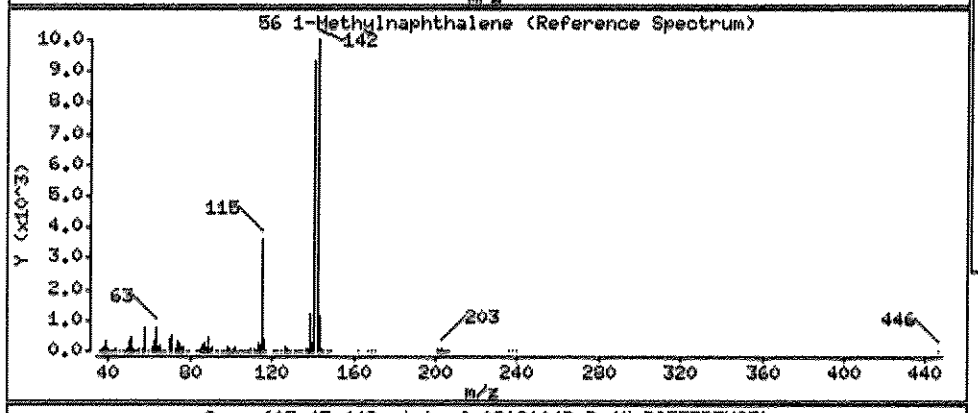
Volume Injected (uL): 1.0 Operator: HEC

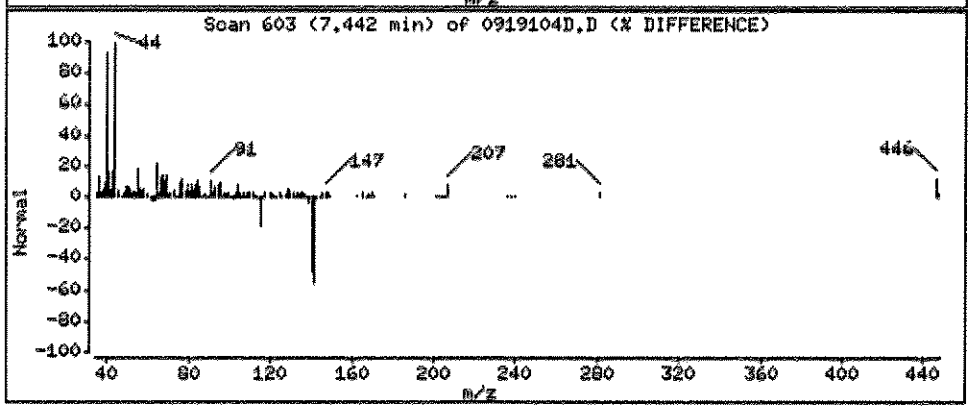
Column phase: fused silica Column diameter: 0.25

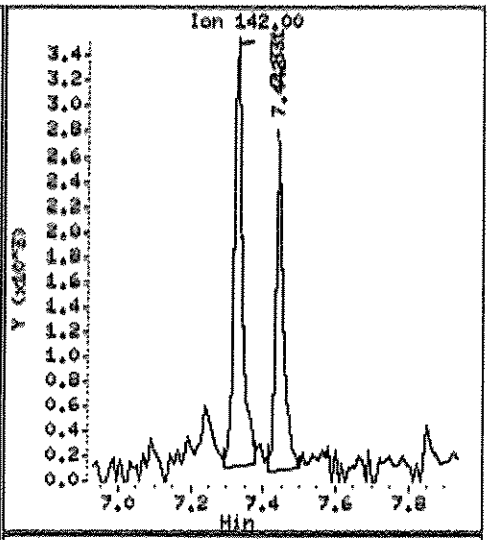
56 1-Methylnaphthalene Concentration: 25.80 UG/KG

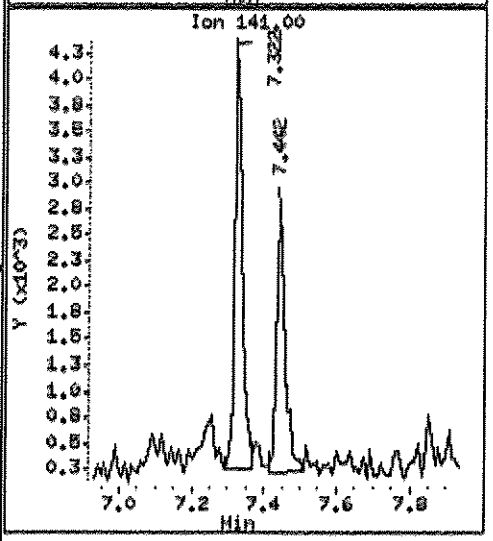












Data File: \\ELABNSHOB\TARGET\chem\bna4.i\102311D4E.b\0919104D.D

Date : 24-OCT-2011 03:10

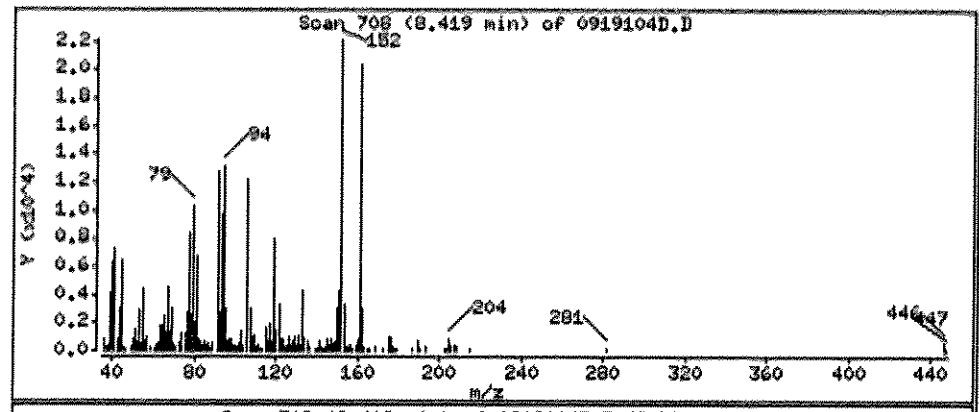
Client ID: FLC-4-SS02-0006-092 Instrument: bna4.i

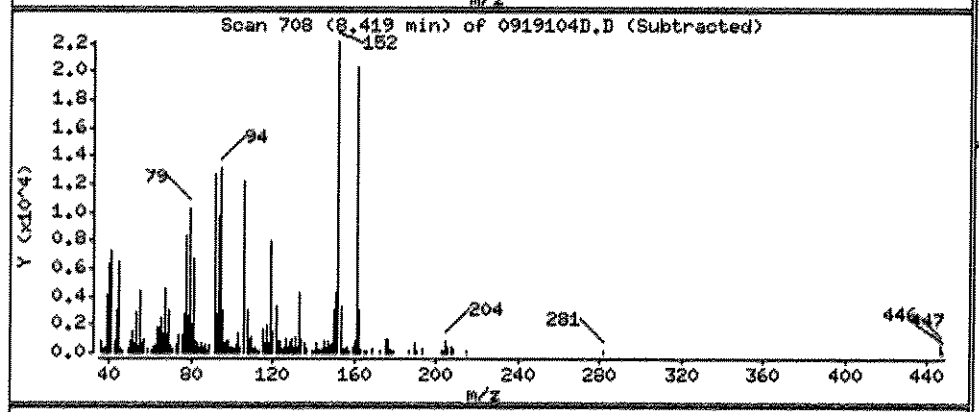
Sample Info: 1109191-04;10;15;1000;1;UG/KG;04-OCT-2011

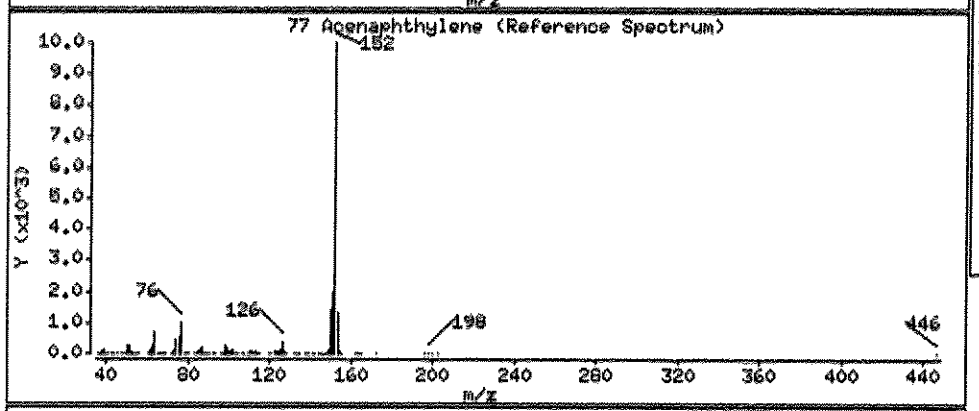
Volume Injected (uL): 1.0 Operator: HEC

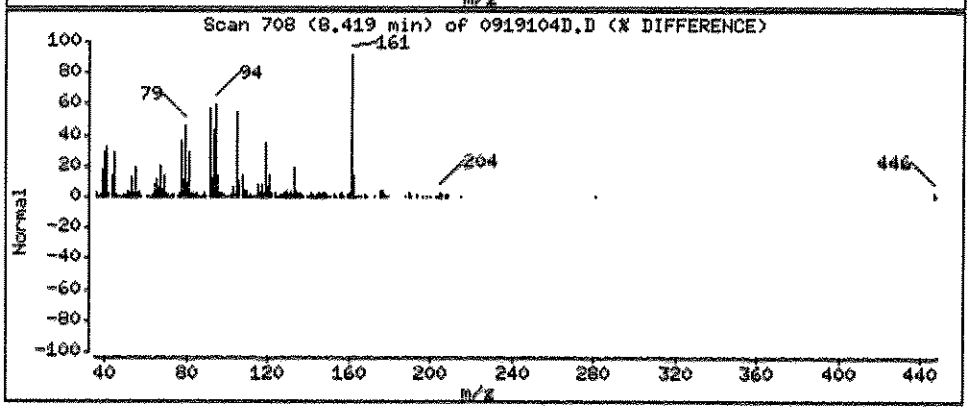
Column phase: fused silica Column diameter: 0.25

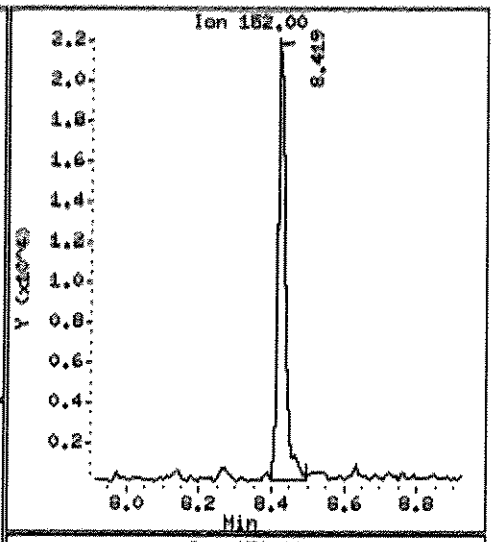
77 Acenaphthylene Concentration: 151.6 UG/KG

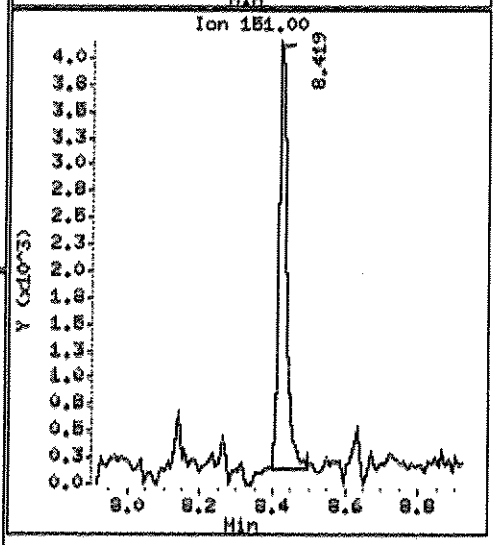












Data File: \\ELABNSHOB\TARGET\chem\bna4.i\102311D4E.b\0919104D.D

Date : 24-OCT-2011 03:10

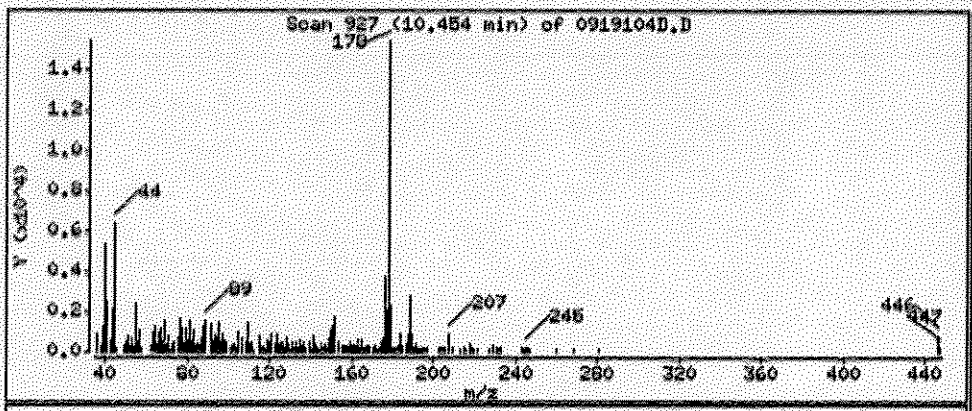
Client ID: FLC-4-SS02-0006-092 Instrument: bna4.i

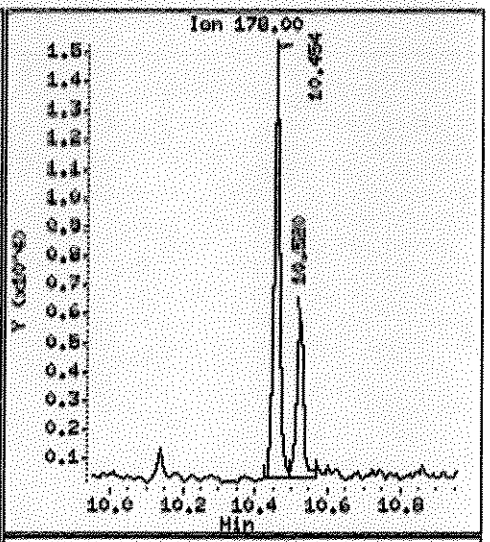
Sample Info: 1109191-04;10;15;1000;1;UG/KG;04-OCT-2011

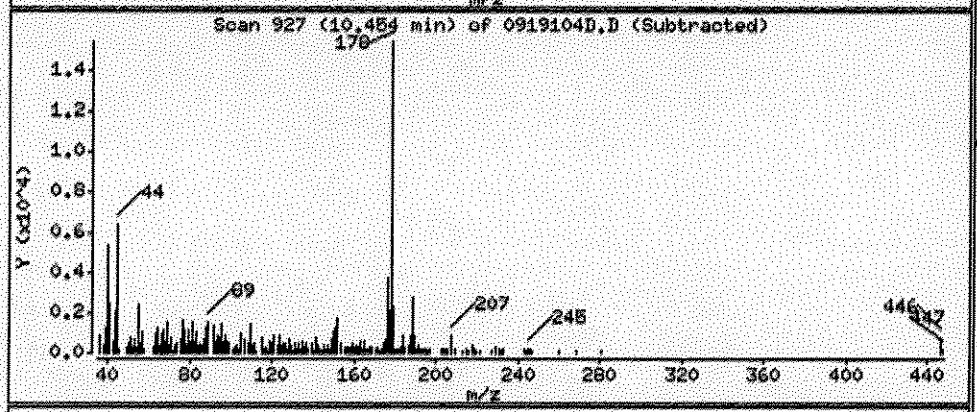
Volume Injected (uL): 1.0 Operator: HEC

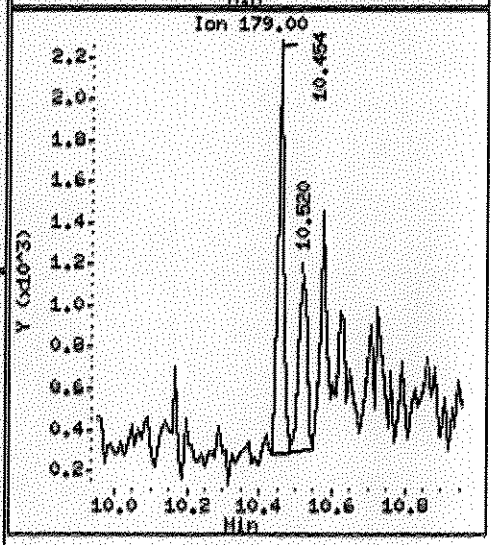
Column phase: Fused silica Column diameter: 0.25

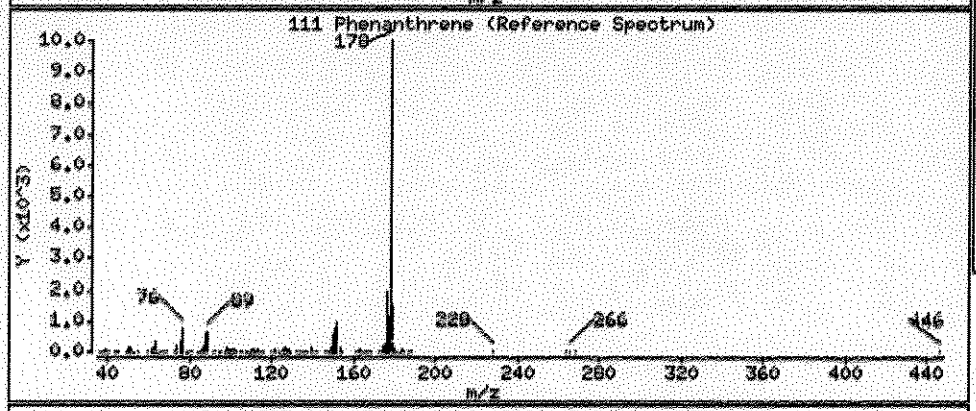
111 Phenanthrene Concentration: 92.36 UG/KG

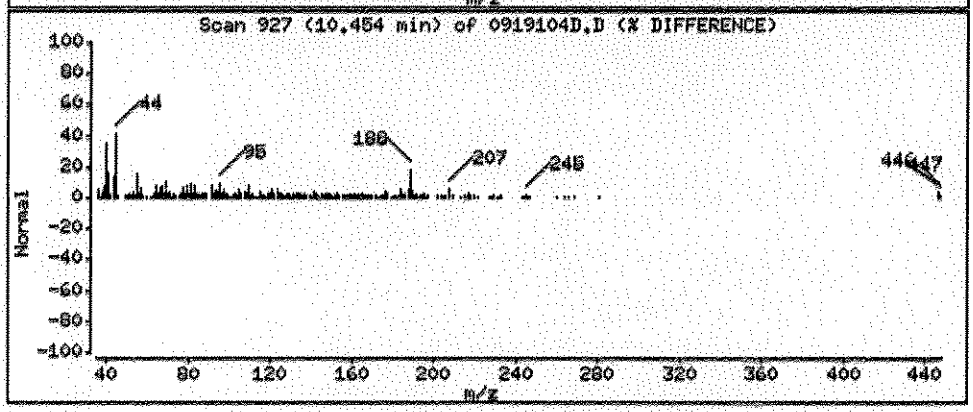












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Date : 24-OCT-2011 03:10

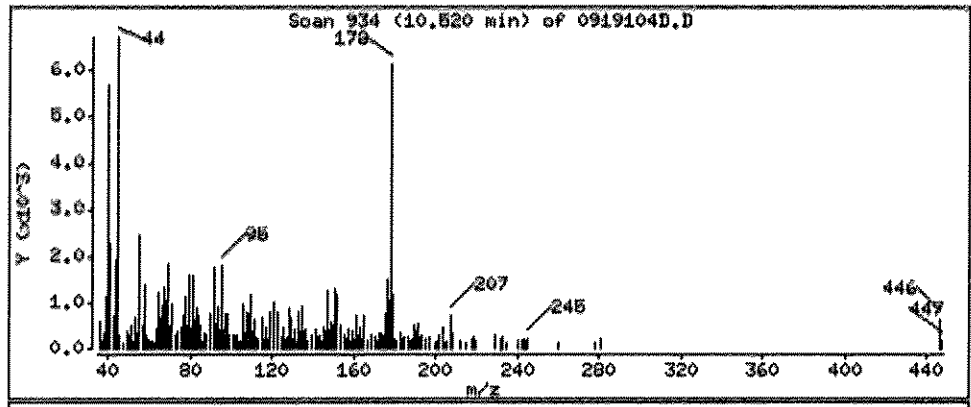
Client ID: FLC-4-SS02-0006-092 Instrument: bna4.i

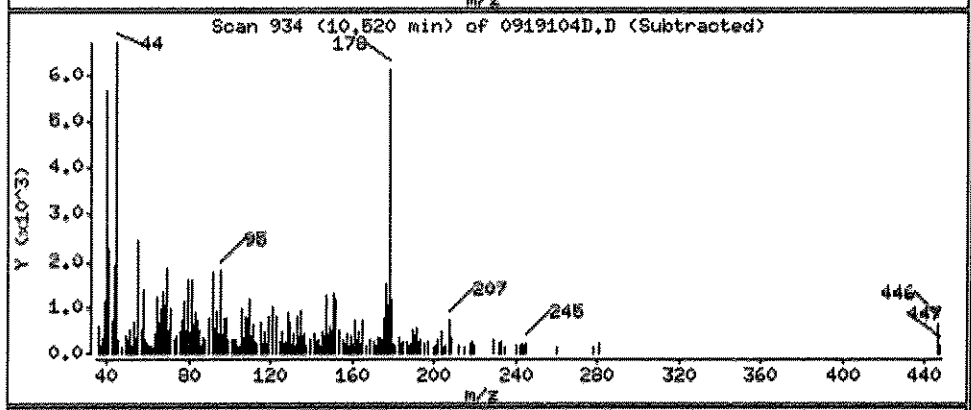
Sample Info: 1109191-04;10;15;1000;1;UG/KG;04-OCT-2011

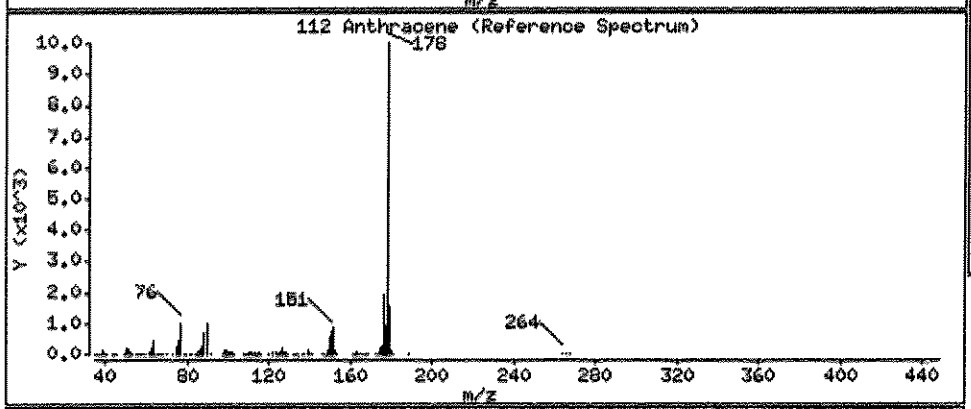
Volume Injected (uL): 1.0 Operator: HEC

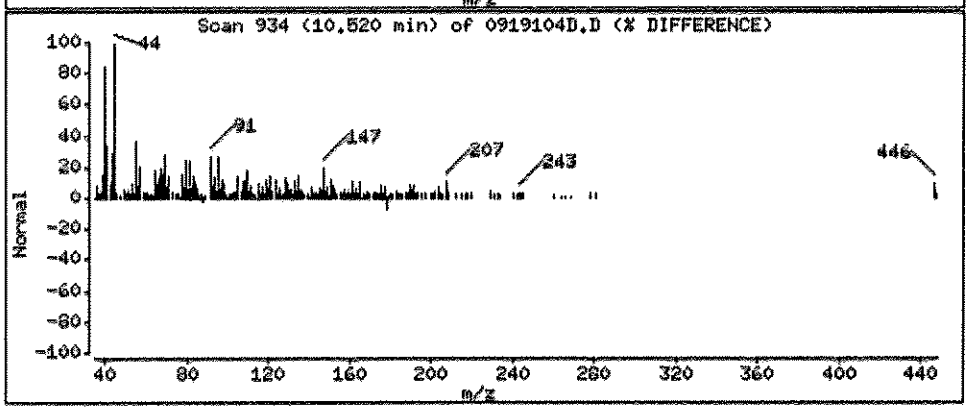
Column phase: fused silica Column diameter: 0.25

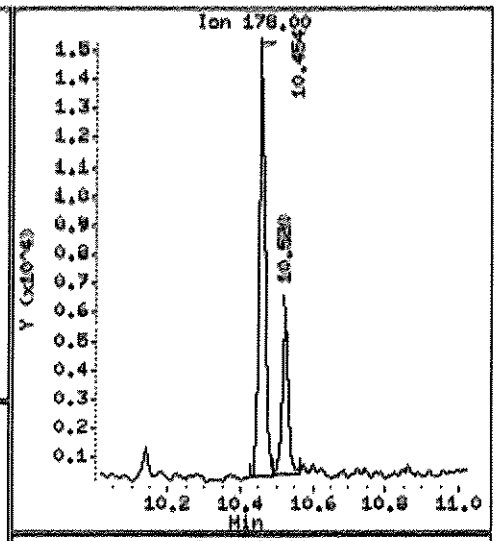
112 Anthracene Concentration: 38.18 UG/KG

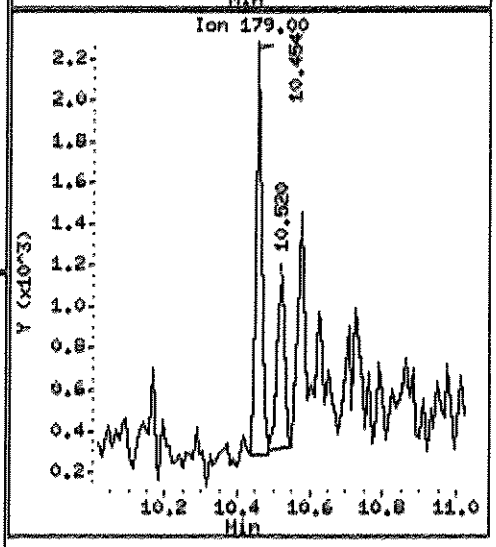












Data File: \\ELABNSHOB\TARGET\chem\bna4.i\102311B4E.b\0919104D.D

Date : 24-OCT-2011 03:10

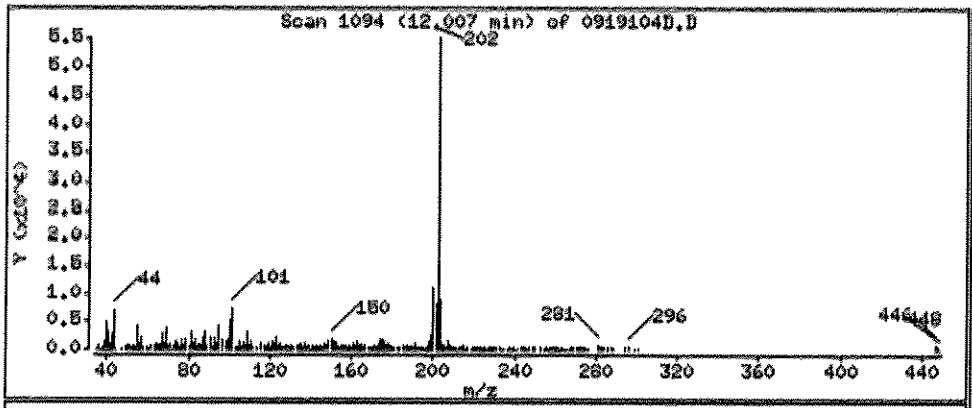
Client ID: FLC-4-SS02-0006-092 Instrument: bna4.i

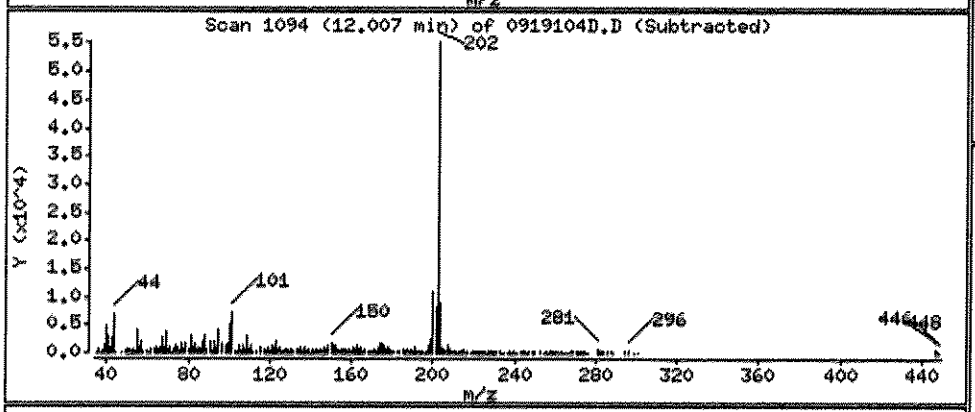
Sample Info: 1109191-04;10;15;1000;1;UG/KG;04-OCT-2011

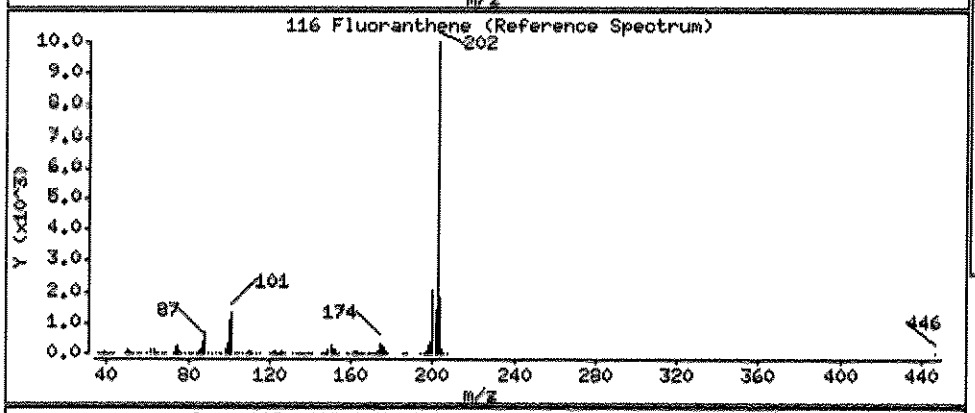
Volume Injected (uL): 1.0 Operator: HEC

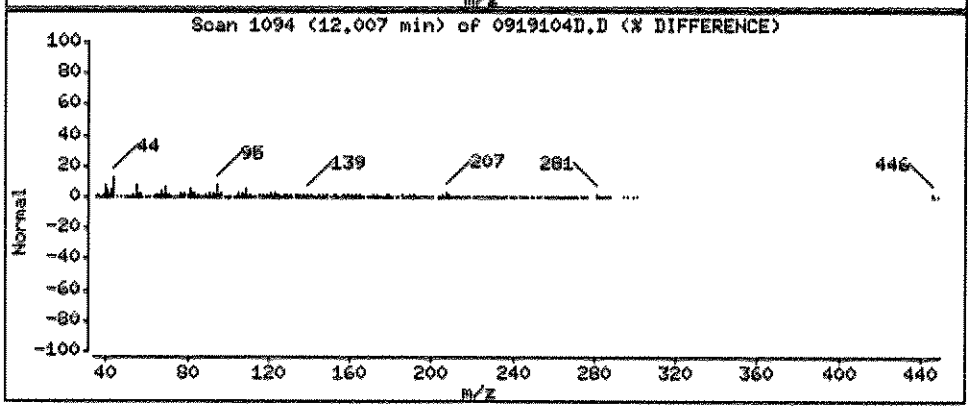
Column phase: fused silica Column diameter: 0.25

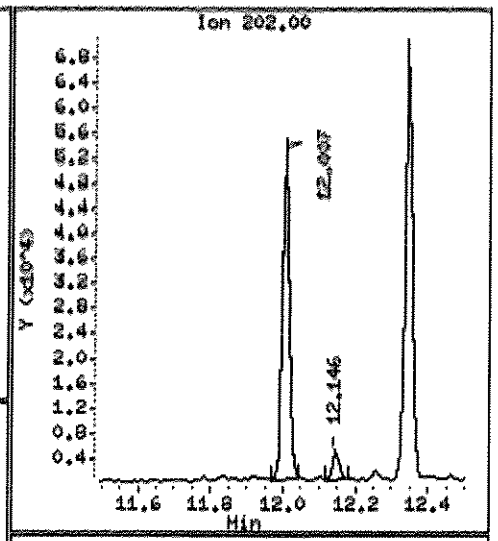
116 Fluoranthene Concentration: 376.0 UG/KG

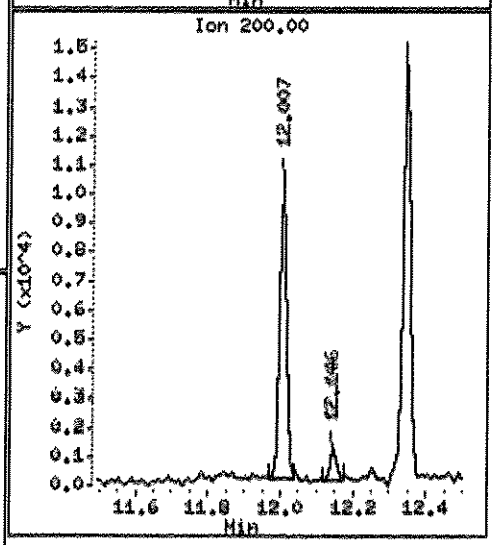












Data File: \\ELABNSHOS\TARGET\chem\bna4.i\102311B4E.b\0919104D.D

Date : 24-OCT-2011 03:10

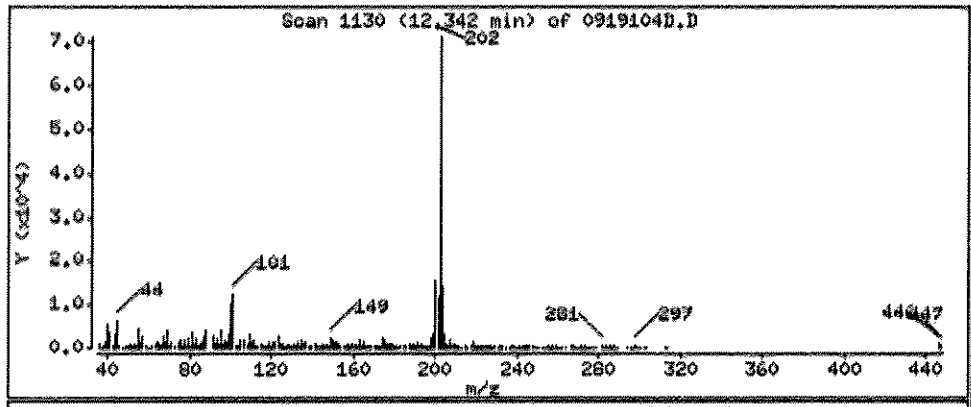
Client ID: FLC-4-SS02-0006-092 Instrument: bna4.i

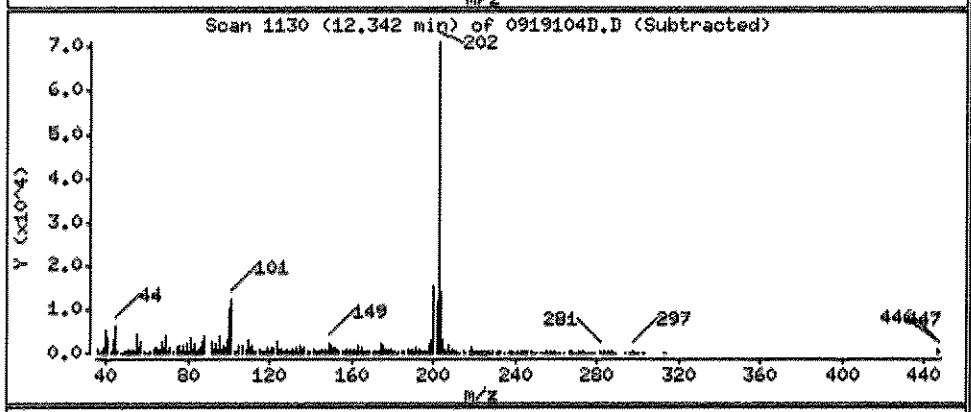
Sample Info: 1109191-04;10;15;1000;1;UG/KG;04-OCT-2011

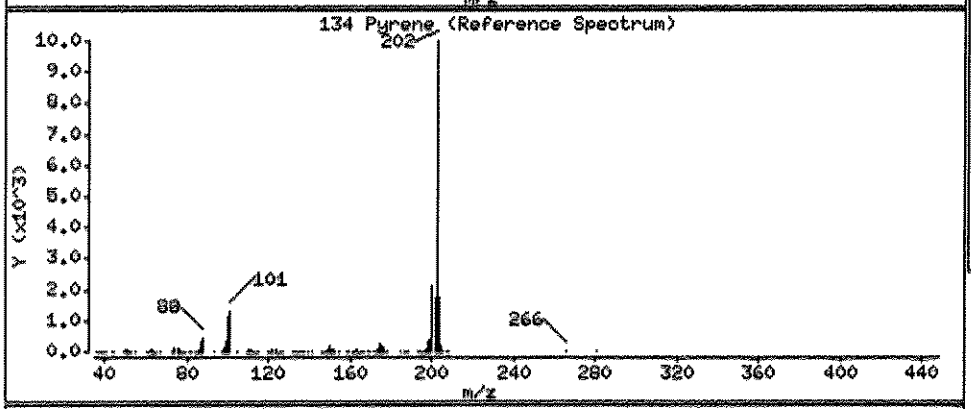
Volume Injected (uL): 1.0 Operator: HEC

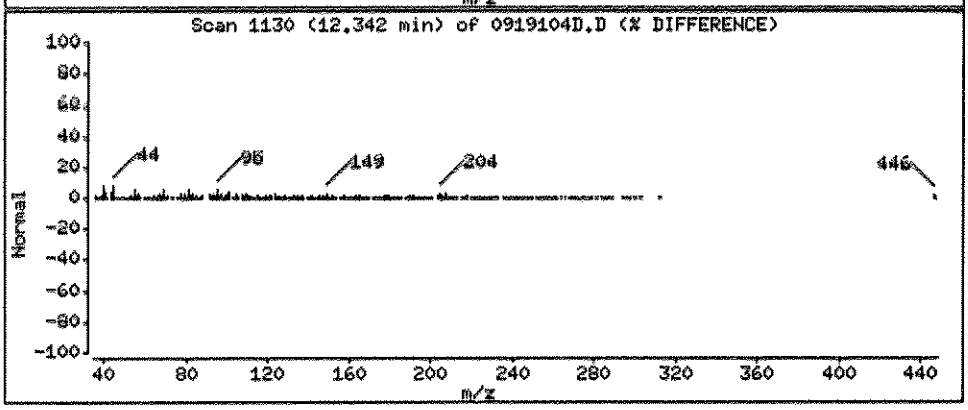
Column phase: fused silica Column diameter: 0.25

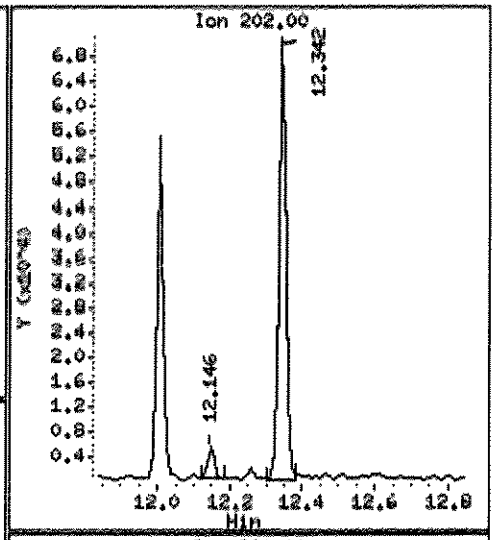
134 Pyrene Concentration: 540.7 UG/KG

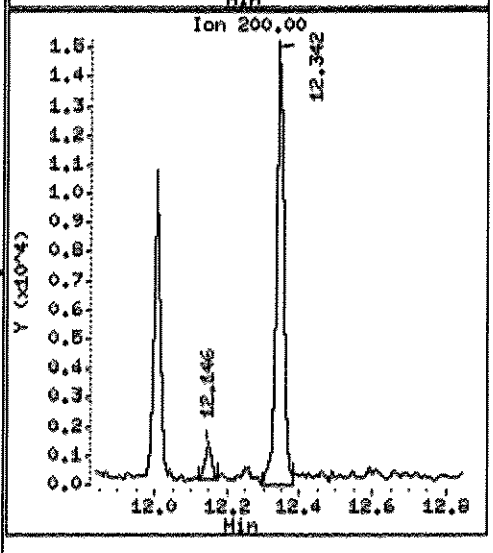












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Date : 24-OCT-2011 03:10

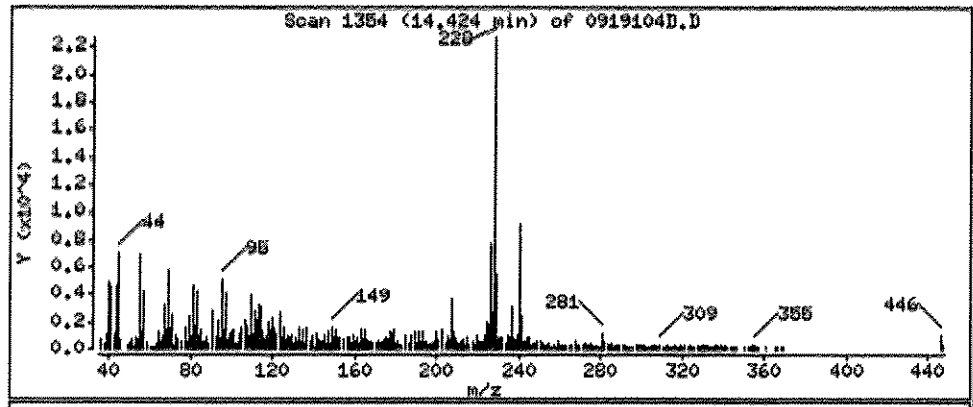
Client ID: FLC-4-SS02-0006-092 Instrument: bna4.i

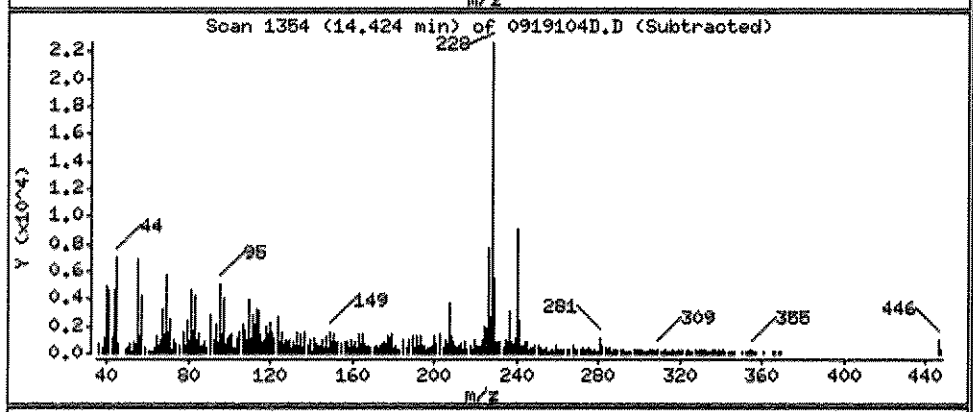
Sample Info: 1109191-04;10;15;1000;1;UG/KG;04-OCT-2011

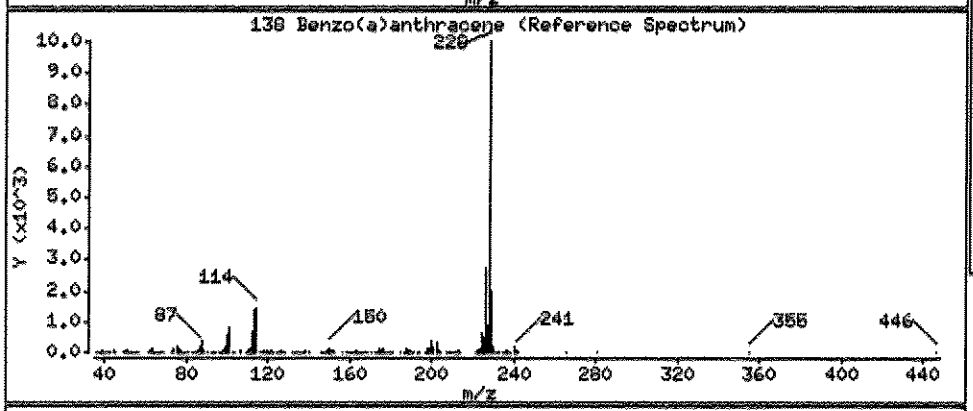
Volume Injected (uL): 1.0 Operator: HEC

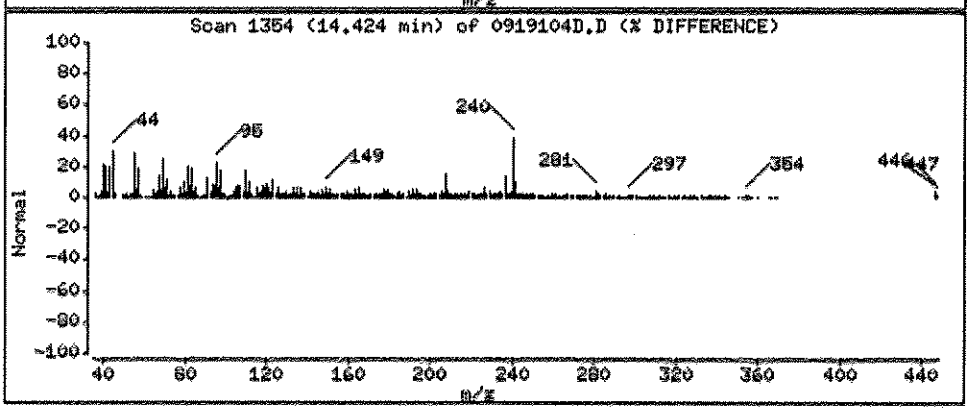
Column phase: fused silica Column diameter: 0.25

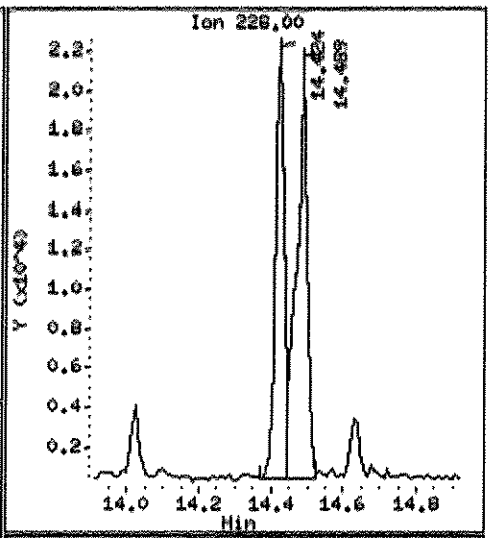
138 Benzo(a)anthracene Concentration: 319.0 UG/KG

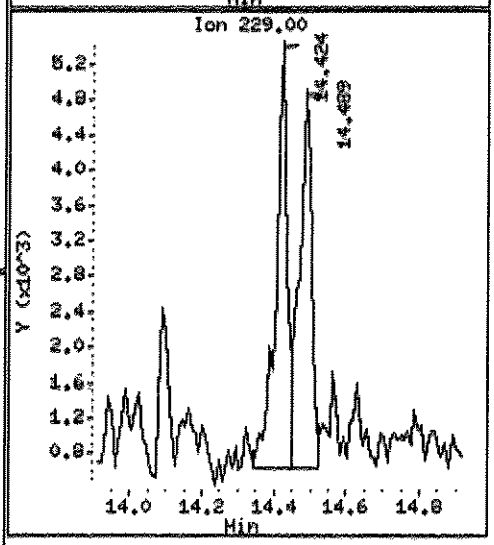












Data File: \\ELABWSH05\TARGET\chem\bna4.i\102311D4E.b\0919104D.D

Date : 24-OCT-2011 03:10

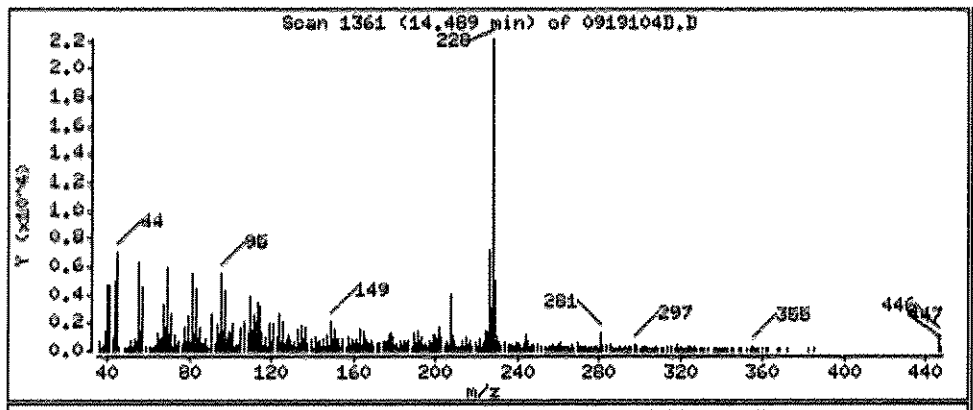
Client ID: FLC-4-SS02-0006-092 Instrument: bna4.i

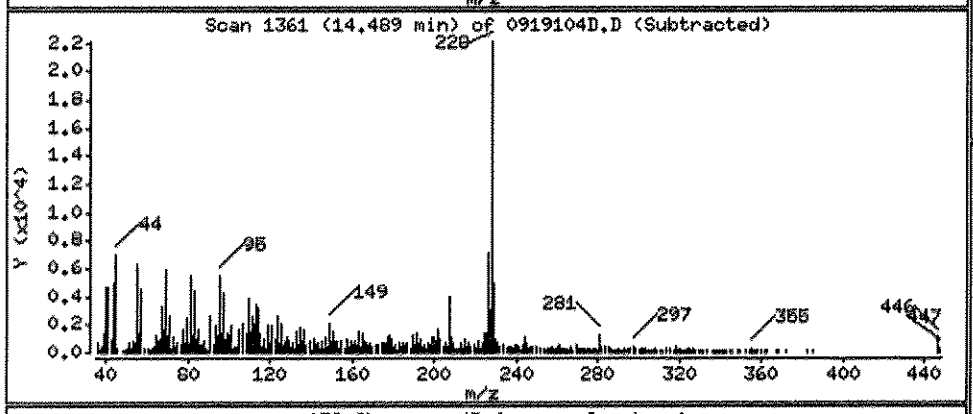
Sample Info: 1109191-04;10;15;1000;1;UG/KG;04-OCT-2011

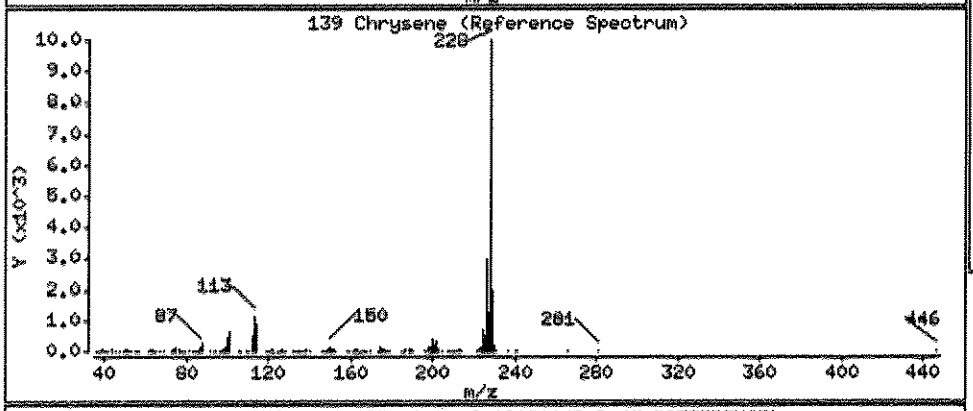
Volume Injected (uL): 1.0 Operator: HEC

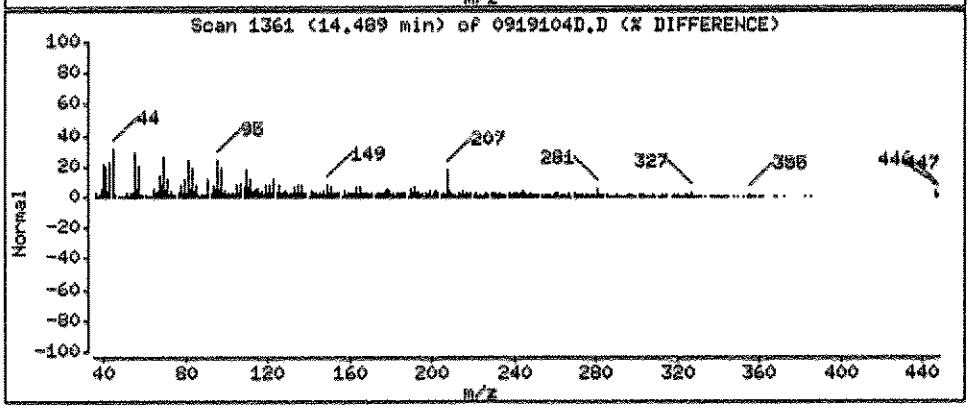
Column phase: fused silica Column diameter: 0.25

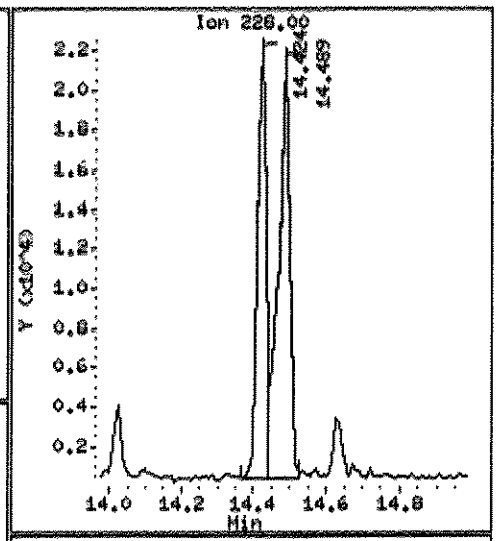
139 Chrysene Concentration: 408.4 UG/KG

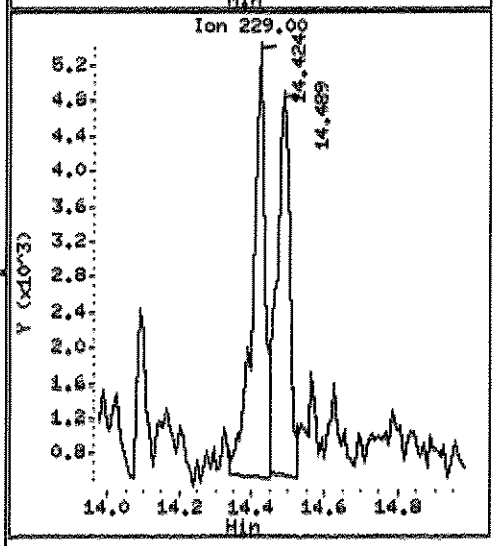












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Date : 24-OCT-2011 03:10

Client ID: FLC-4-SS02-0006-092

Instrument: bna4.i

Sample Info: 1109191-04;10;15;1000;1;UG/KG;04-OCT-2011

Volume Injected (uL): 1.0

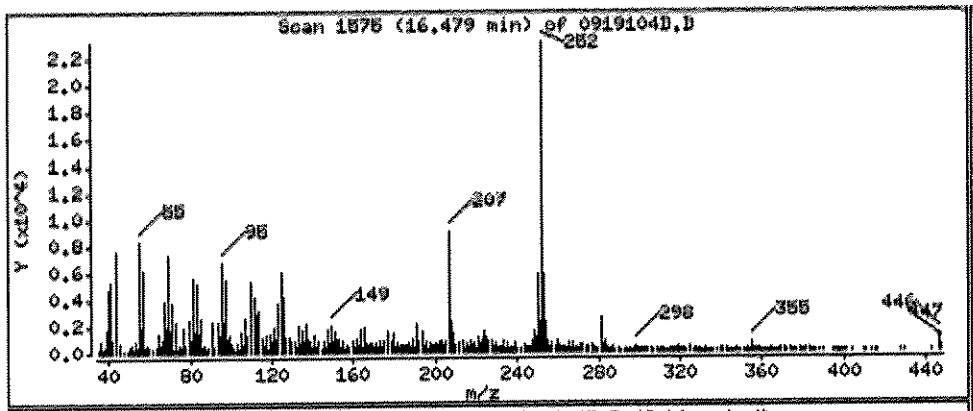
Operator: HEC

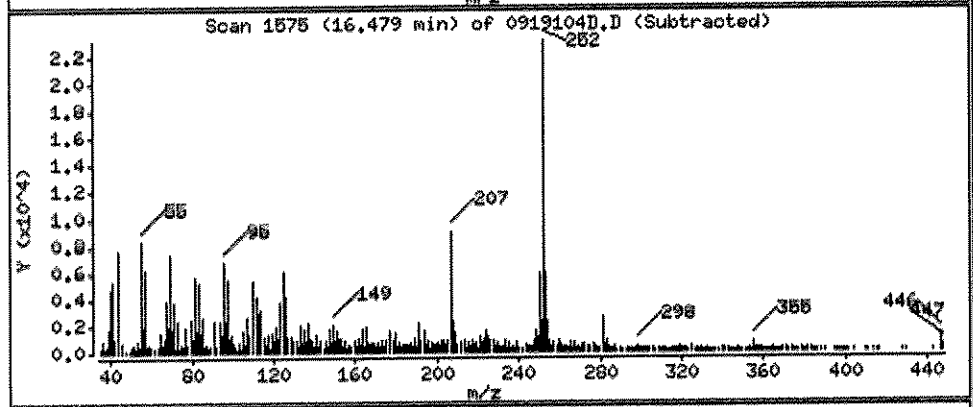
Column phase: Fused silica

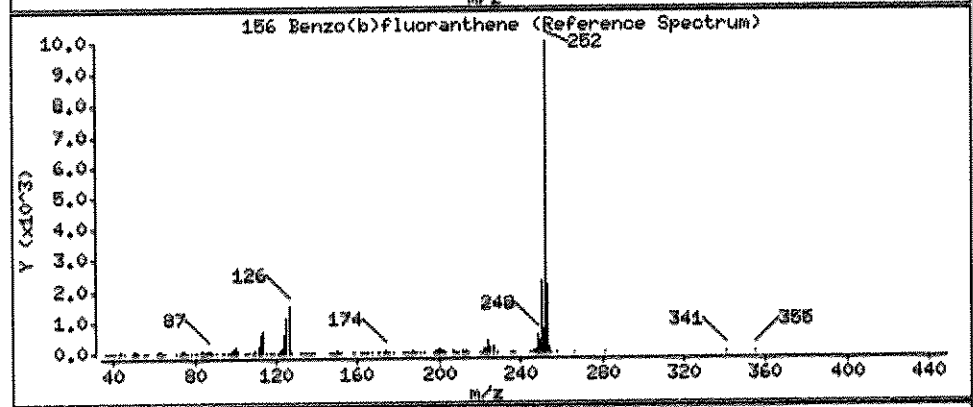
Column diameter: 0.25

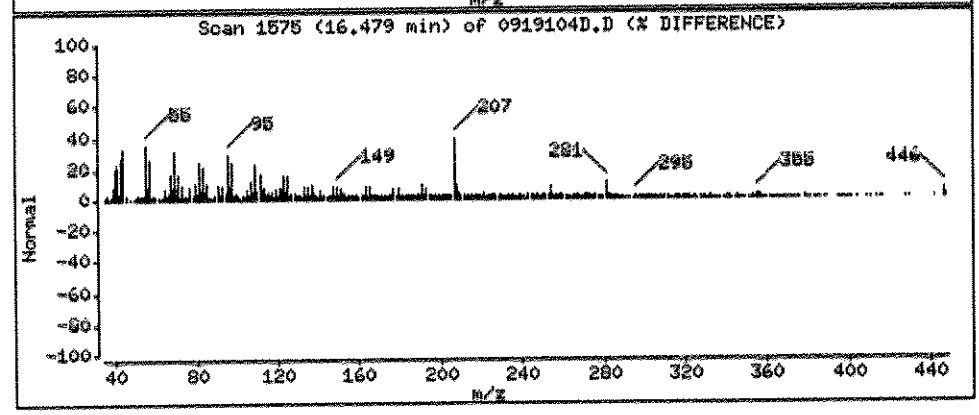
156 Benzo(b)fluoranthene

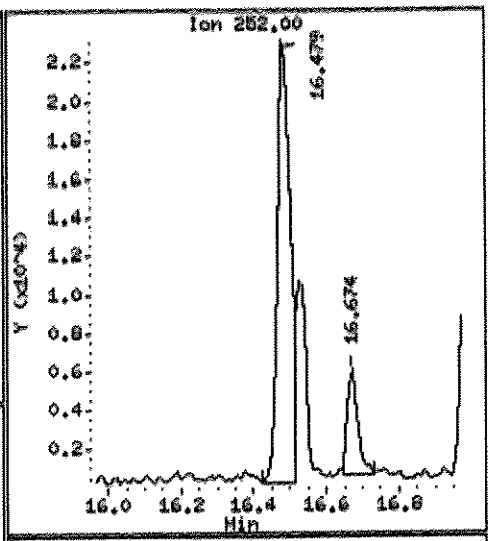
Concentration: 766.2 UG/KG

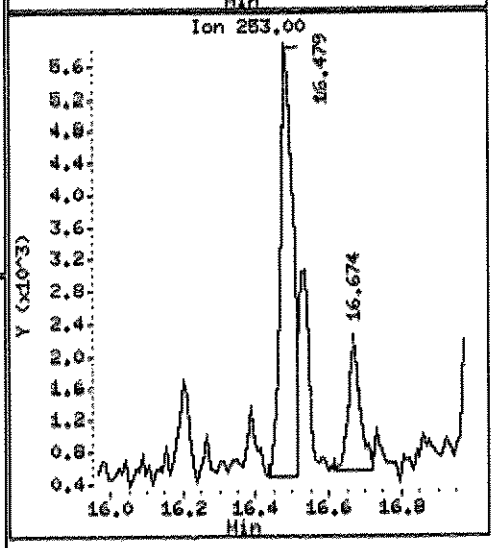






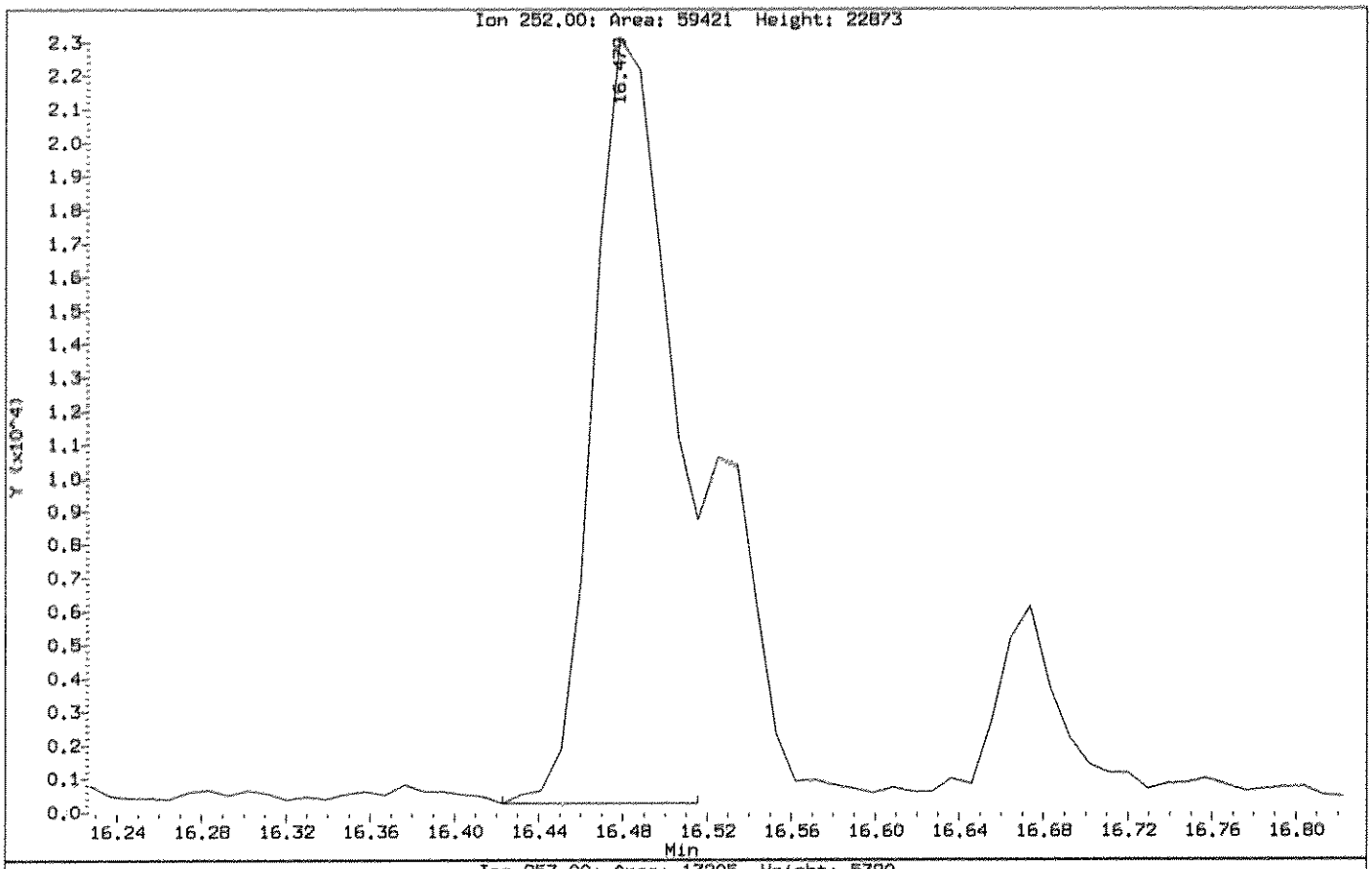


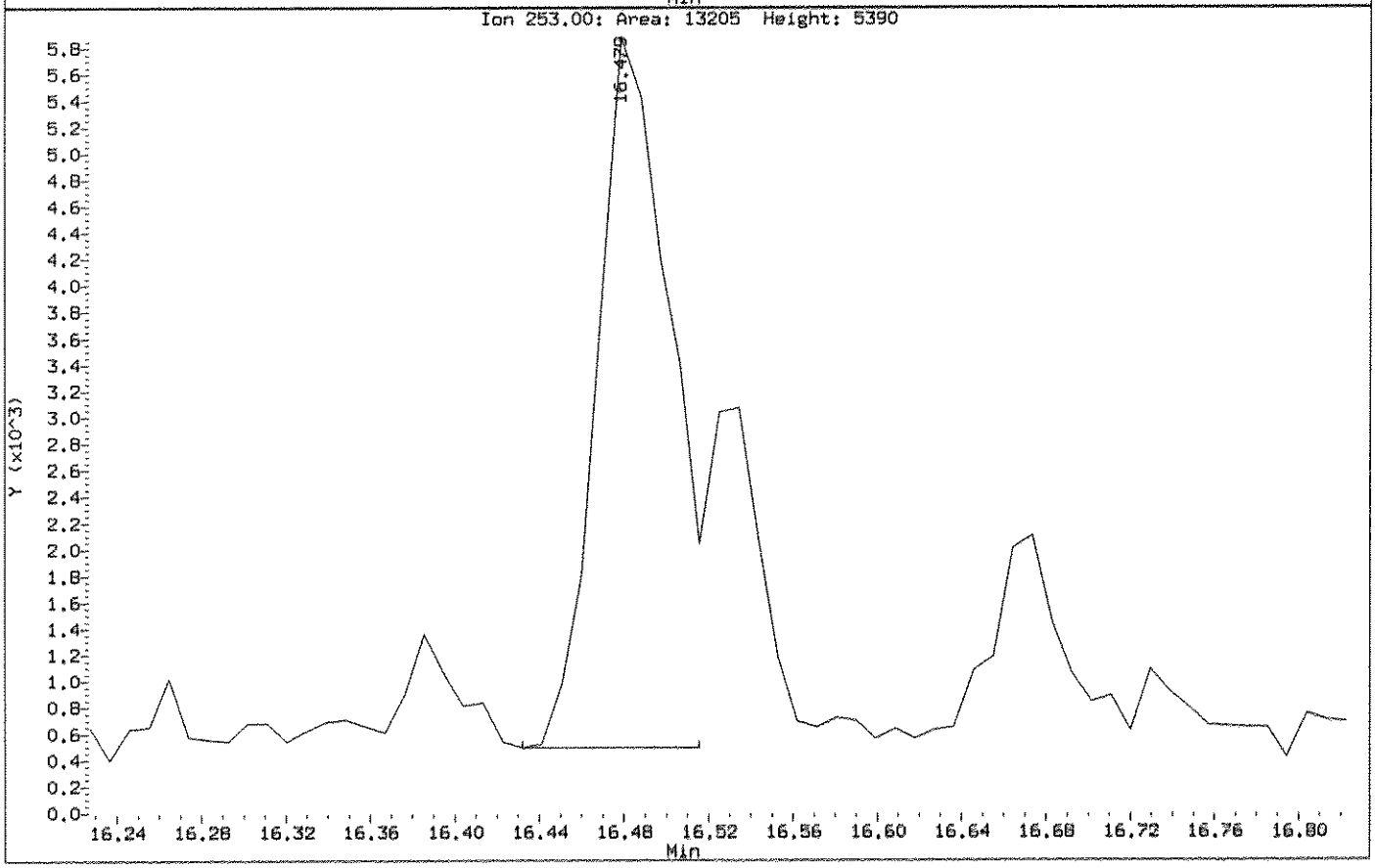




Data File: \\ELABNSHOB\TARGET\chem\bna4.i\102311B4E.b\0919104D.D
Injection Date: 24-OCT-2011 03:10
Instrument: bna4.i
Client Sample ID: FLC-4-SS02-0006-092

Compound: Benzo(k)fluoranthene
CAS Number: 207-08-9





Data File: \\ELADNSHOB\TARGET\chem\bna4.i\102311B4E.b\0919104D.D

Date : 24-OCT-2011 03:10

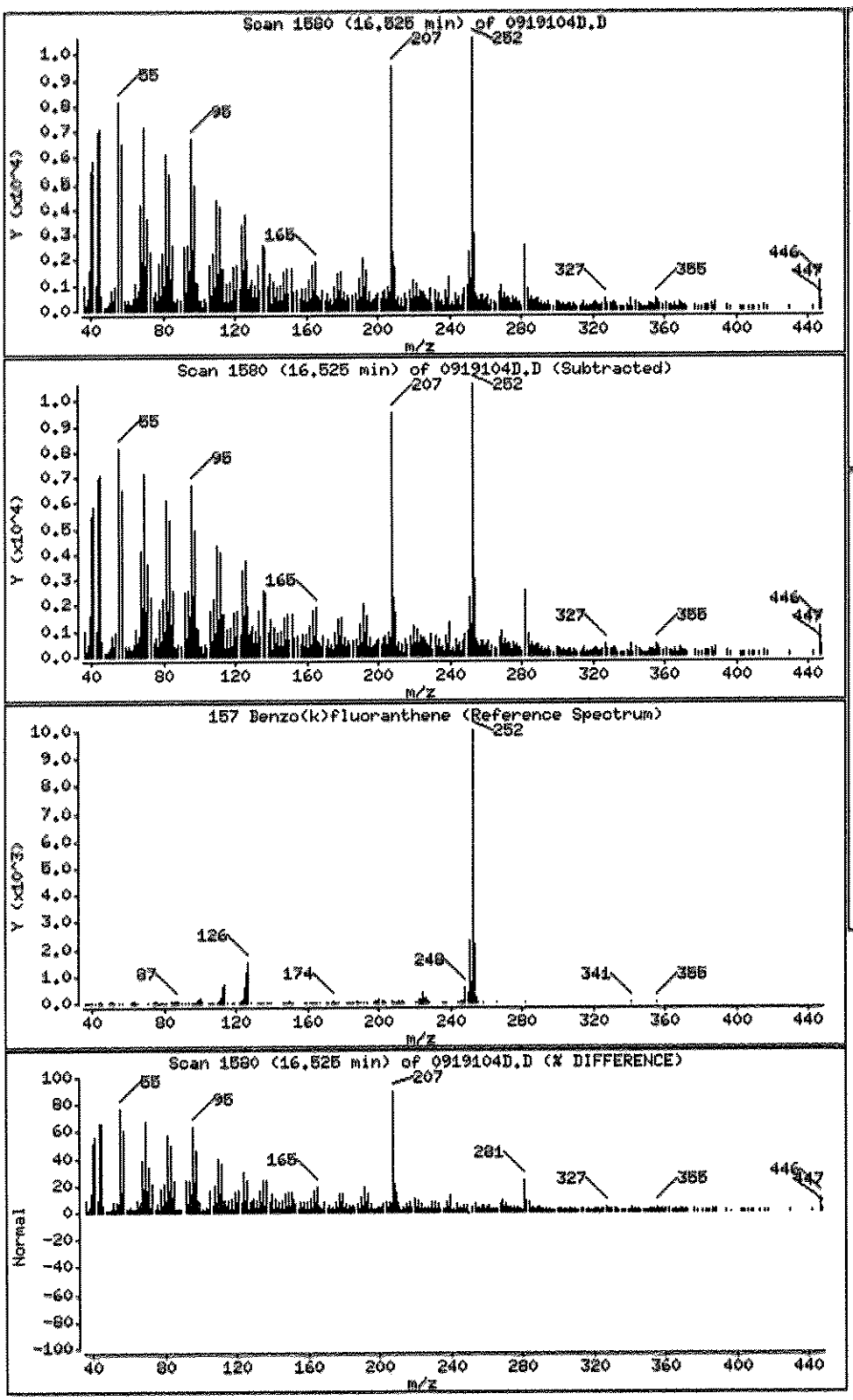
Client ID: FLC-4-SS02-0006-092 | Instrument: bna4.i

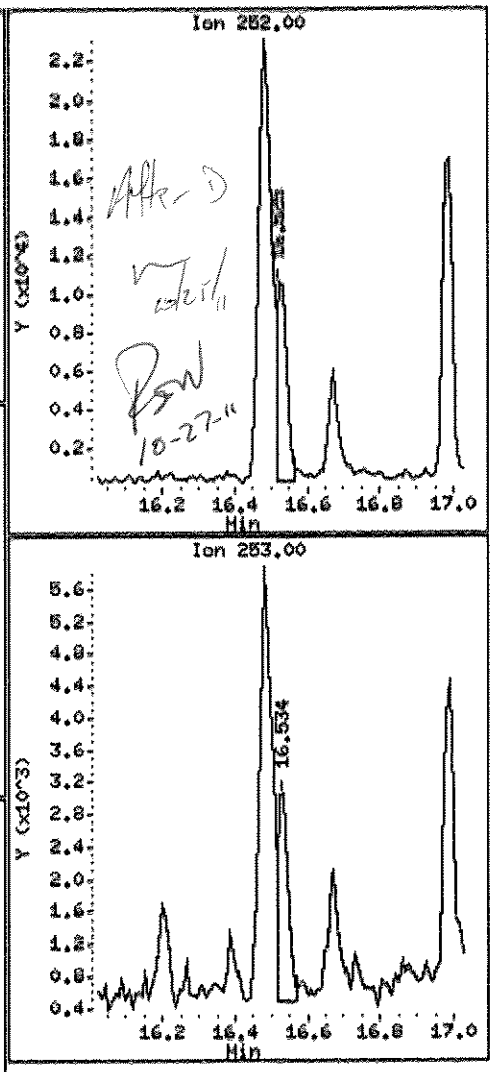
Sample Info: 1109191-04;10;15;1000;1;UG/KG;04-OCT-2011

Volume Injected (uL): 1.0 | Operator: HEC

Column phase: fused silica | Column diameter: 0.25

157 Benzo(k)fluoranthene | Concentration: 264.0 UG/KG





After D
w/ 1:1
PSW
10-27-11

Data File: \\ELADHSHOU\TARGET\chem\bna4.i\10231194E.b\0919104D.D

Date : 24-OCT-2011 03:10

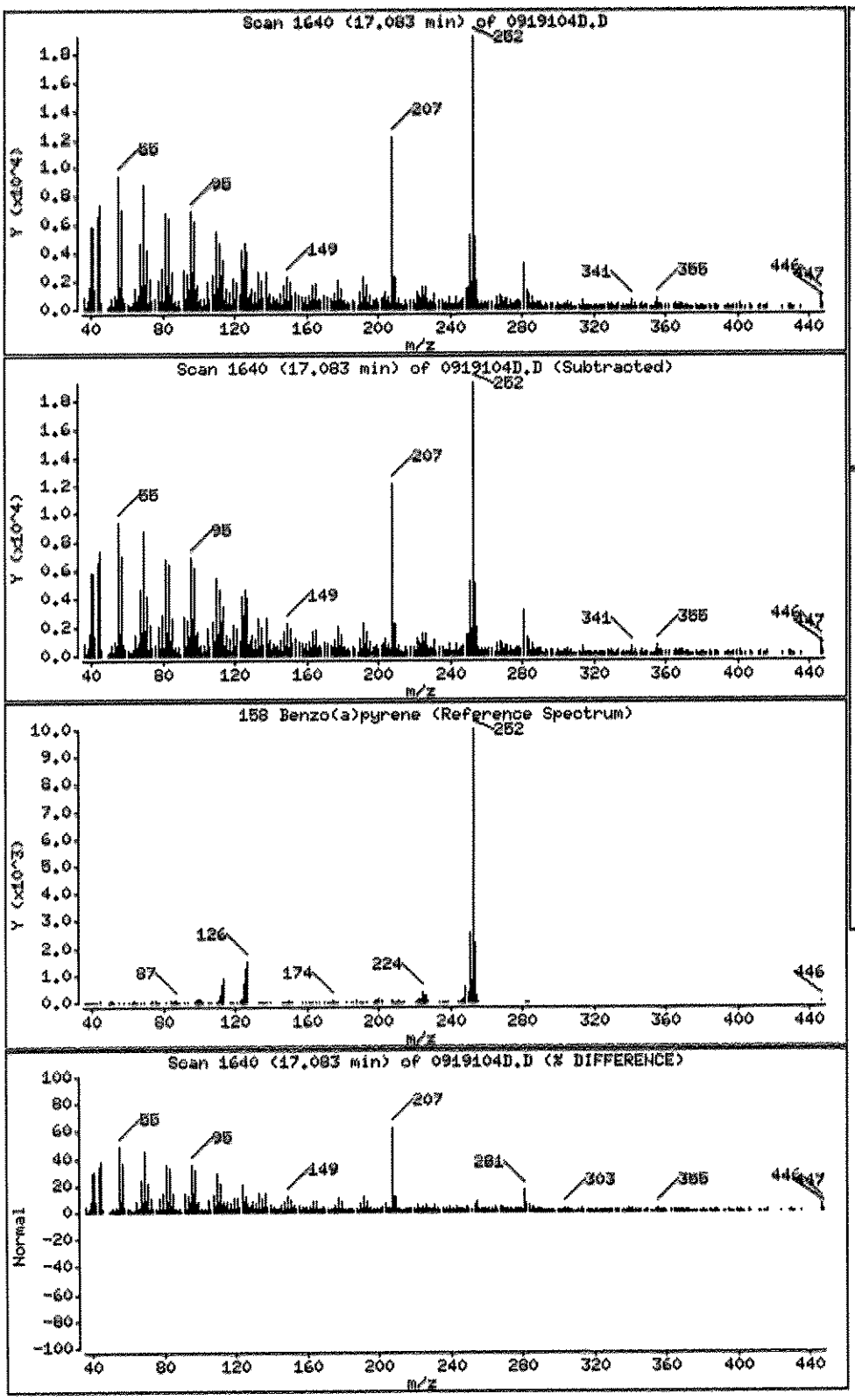
Client ID: FLC-4-SS02-0006-092 Instrument: bna4.i

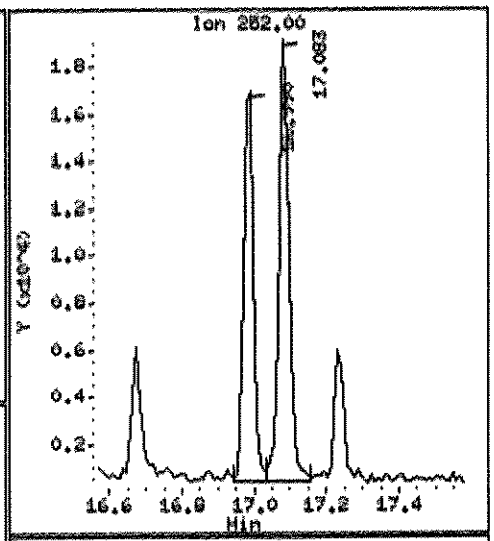
Sample Info: 1109191-04;10;15;1000;1;UG/KG;04-OCT-2011

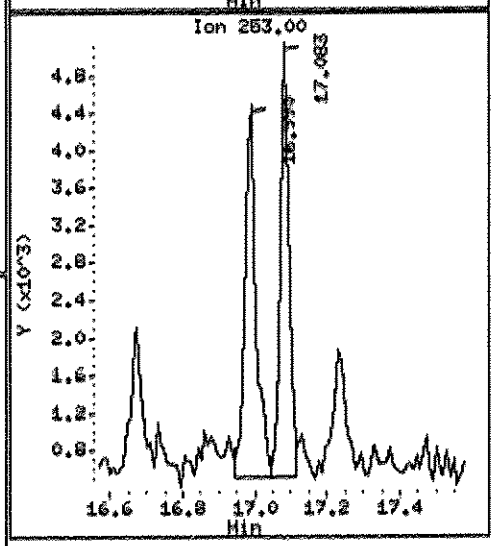
Volume Injected (uL): 1.0 Operator: MEC

Column phase: fused silica Column diameter: 0.25

158 Benzo(a)pyrene Concentration: 578.4 UG/KG







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Date : 24-OCT-2011 03:10

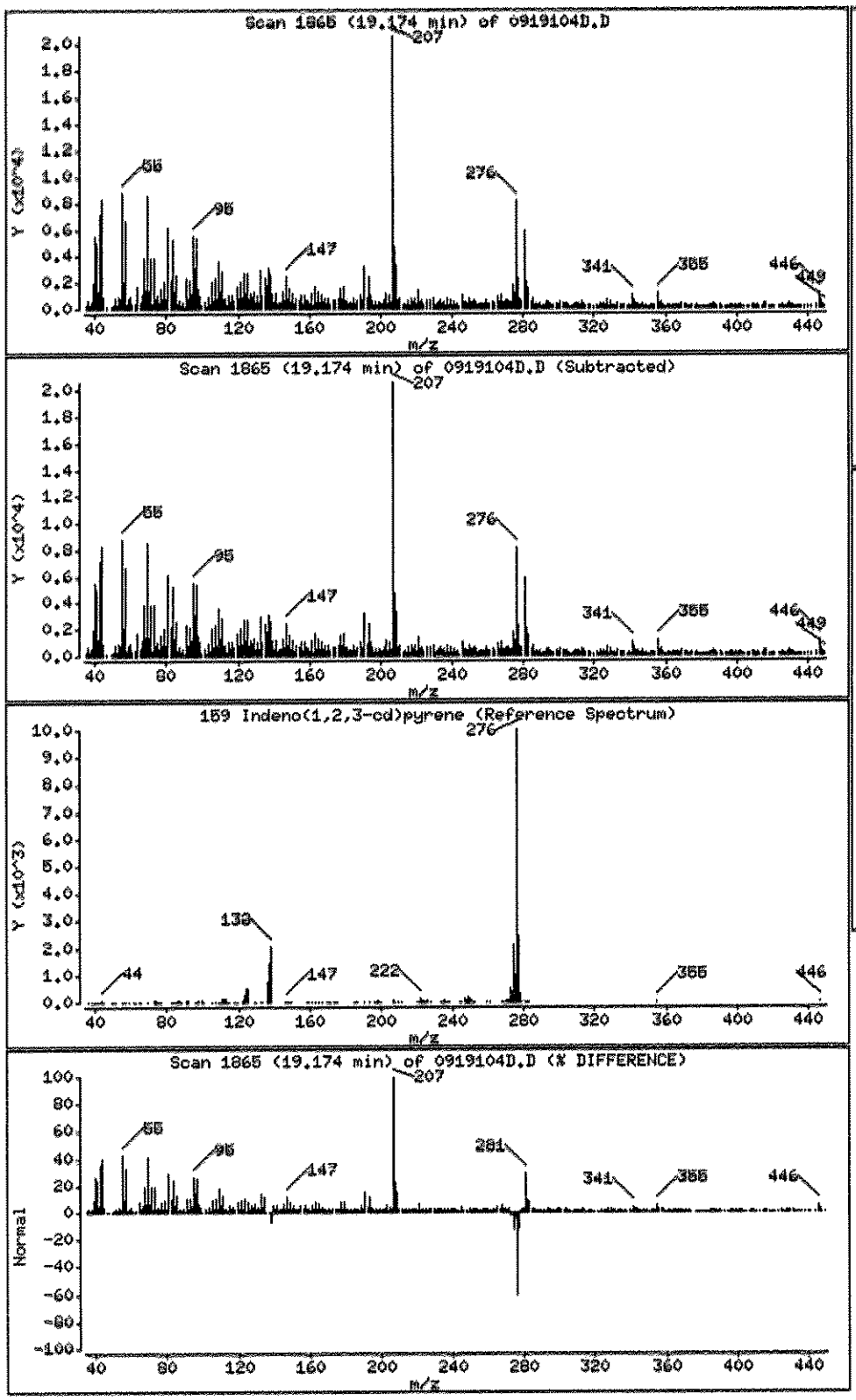
Client ID: FLC-4-SS02-0006-092 Instrument: bna4.i

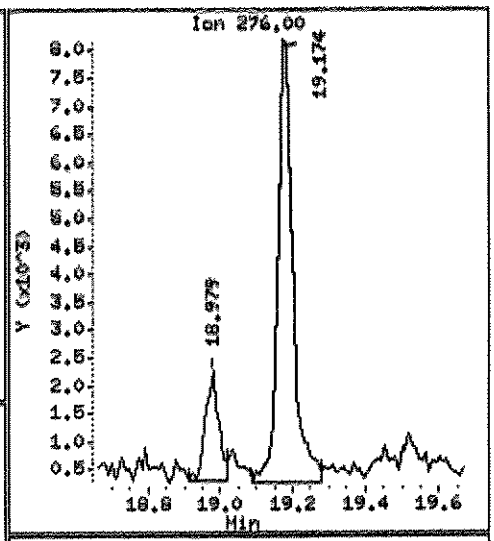
Sample Info: 1109191-04;10;15;1000;1;UG/KG;04-OCT-2011

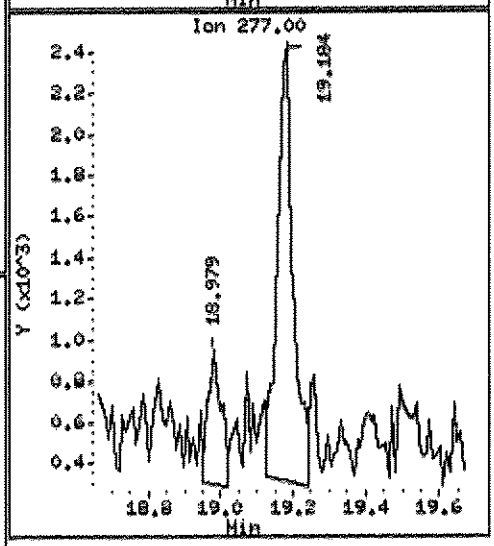
Volume Injected (uL): 1.0 Operator: HEC

Column phase: fused silica Column diameter: 0.25

159 Indeno(1,2,3-cd)pyrene Concentration: 485.9 UG/KG







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Date : 24-OCT-2011 03:10

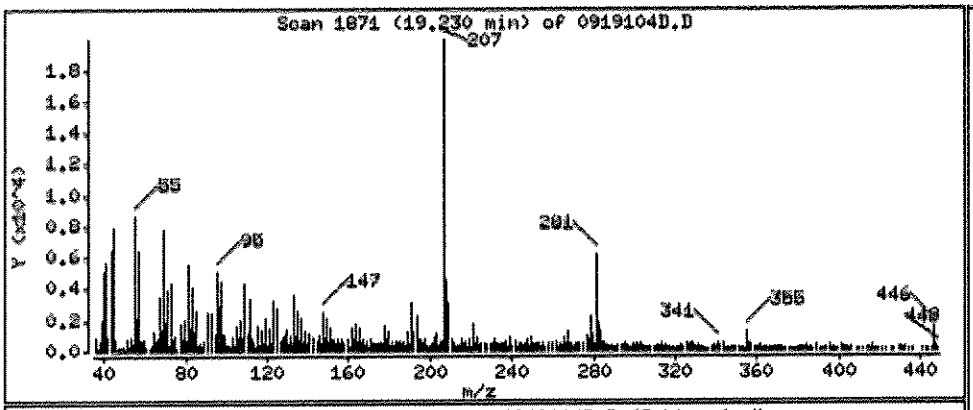
Client ID: FLC-4-SS02-0006-092 Instrument: bna4.i

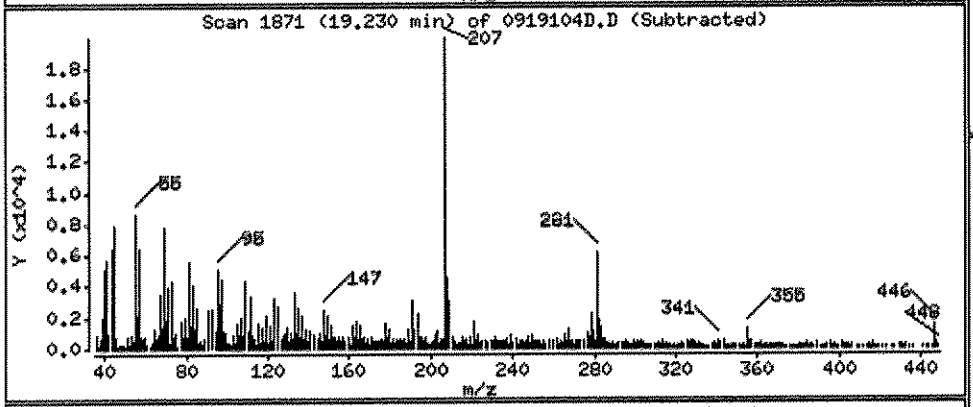
Sample Info: 1109191-04;10;15;1000;1;UG/KG;04-OCT-2011

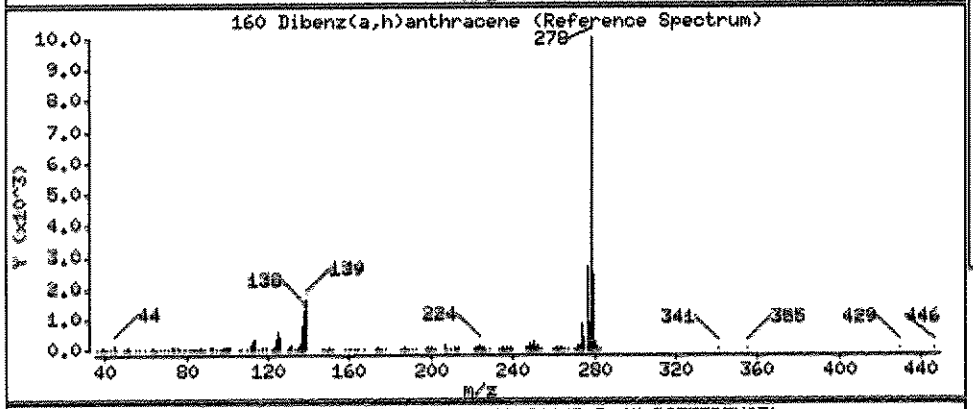
Volume Injected (uL): 1.0 Operator: HEC

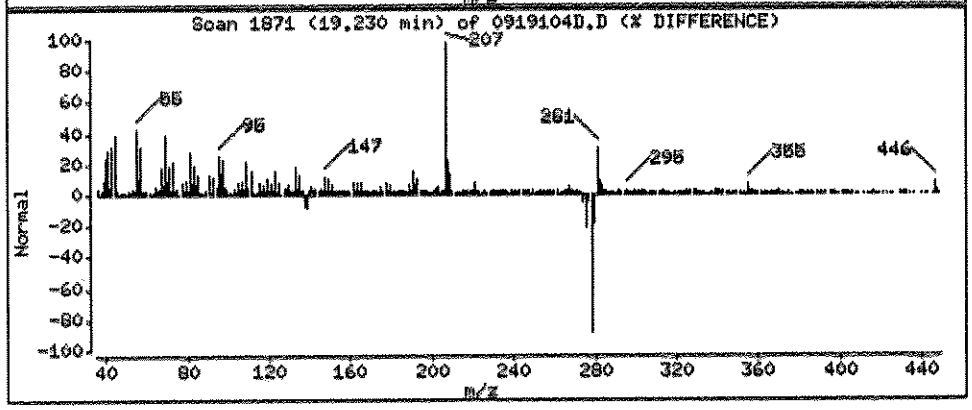
Column phase: fused silica Column diameter: 0.25

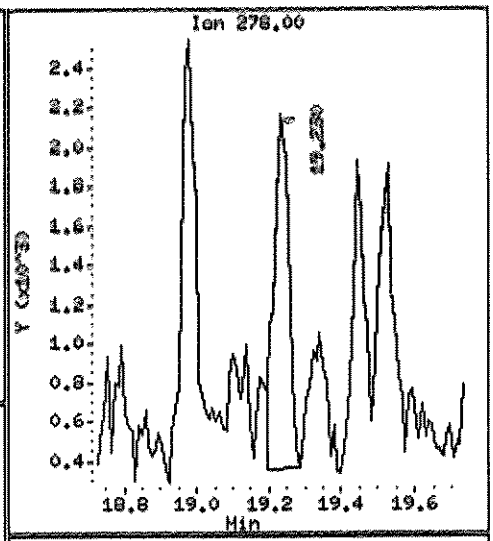
160 Dibenz(a,h)anthracene Concentration: 119.3 UG/KG

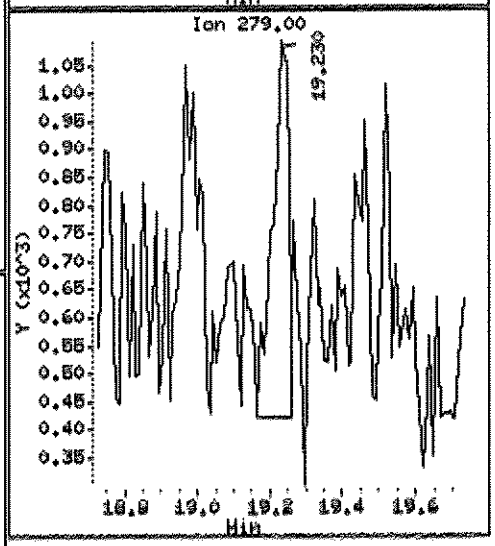












Data File: \\ELABNSHO5\TARGET\chem\bna4.i\102311B4E.b\0919104D.D

Date : 24-OCT-2011 03:10

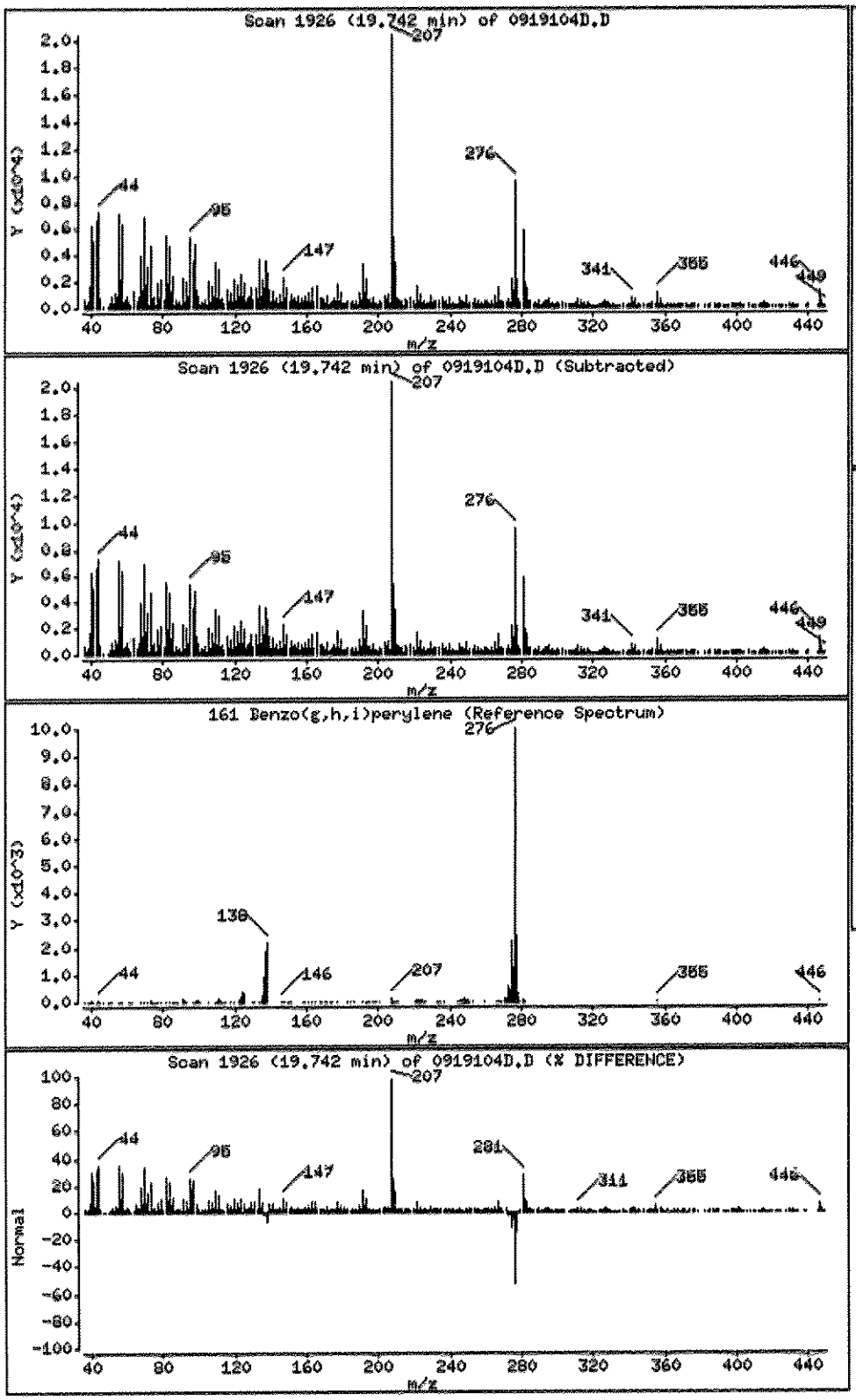
Client ID: FLC-4-SS02-0006-092 Instrument: bna4.i

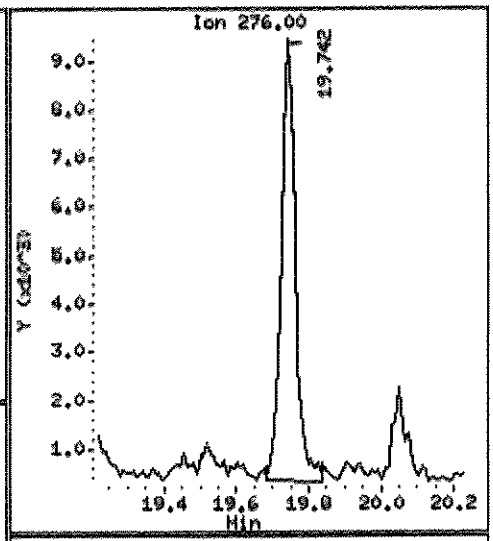
Sample Info: 1109191-04;10;15;1000;1;UG/KG;04-OCT-2011

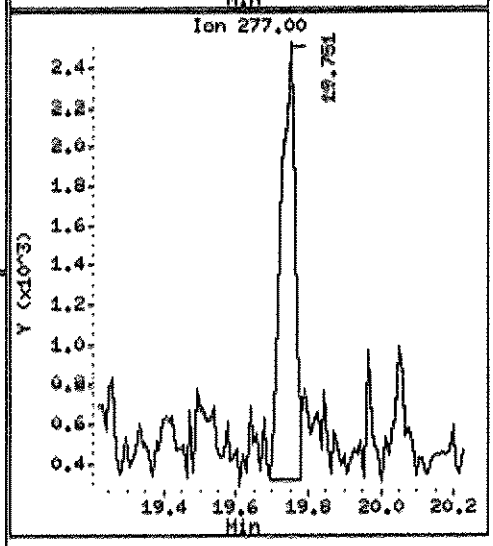
Volume Injected (uL): 1.0 Operator: HEC

Column phase: fused silica Column diameter: 0.25

161 Benzo(g,h,i)perylene Concentration: 520.0 UG/KG







Data File: \\ELABNSH05\TARGET\chem\bna4.i\102311B4E.b\0919106D.D
Report Date: 25-Oct-2011 18:09

Laboratory Name

Data file : \\ELABNSH05\TARGET\chem\bna4.i\102311B4E.b\0919106D.D
Lab Smp Id: 1109191-06 Client Smp ID: FLC-4-SB02-0204-092
Inj Date : 24-OCT-2011 03:39 MS Autotune Date: 23-OCT-2011 10:06
Operator : MEC Inst ID: bna4.i
Smp Info : 1109191-06;10;15;1000;1;UG/KG;04-OCT-2011
Misc Info : ;0;;;;1J03009;pahmisc.sub;
Comment :
Method : \\ELABNSH05\TARGET\chem\bna4.i\102311B4E.b\IXBN4LOW.m
Meth Date : 25-Oct-2011 18:04 mcobb Quant Type: ISTD
Cal Date : 24-AUG-2011 18:33 Cal File: SEQ-CAL9.D
Als bottle: 34
Dil Factor: 10.00000
Integrator: HP RTE Compound Sublist: pahmisc.sub
Target Version: 4.04
Processing Host: TARGET09_VM

Concentration Formula: Amt * DF * Uf * Vt*Vi/(Amt * Vi * (Solids/100))

Name	Value	Description
DF	10.000	Dilution Factor
Uf	1.000	ng unit correction factor
Vt	1000.000	Volume of final extract (uL)(1000 low, 2
Amt	15.000	Mass of initial extraction
Vi	1.000	Volume injected (uL)
Solids	100.000	Percent Solids

10-27-

Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS ON-COLUMN (ng/ul)	FINAL (UG/KG)
* 102 Phenanthrene-d10	188	10.426	10.417	(1.000)	100259	1.00000	
$ 74 2-Fluorobiphenyl	172	7.767	7.768	(0.745)	355656	3.75416	2503
$ 107 2,4,6-Tribromophenol	330	9.571	9.562	(0.918)	90863	5.23485	3490
116 Fluoranthene	202	12.007	11.997	(1.152)	2353	0.02142	14.28(a)
134 Pyrene	202	12.341	12.341	(1.184)	3682	0.03301	22.01(a)
* 154 Perylene-d12	264	17.185	17.175	(1.000)	33700	1.00000	
$ 135 Terphenyl-d14	244	12.611	12.602	(1.210)	206777	3.25179	2168
139 Chrysene	228	14.489	14.480	(1.390)	2122	0.03015	20.10(a)
156 Benzo(b)fluoranthene	252	16.478	16.469	(0.959)	1783	0.03963	26.42(a)
157 Benzo(k)fluoranthene	252	16.525	16.525	(0.962)	1183	0.02598	17.32(a)
158 Benzo(a)pyrene	252	17.082	17.073	(0.994)	1131	0.02982	19.88(a)

10/25/11

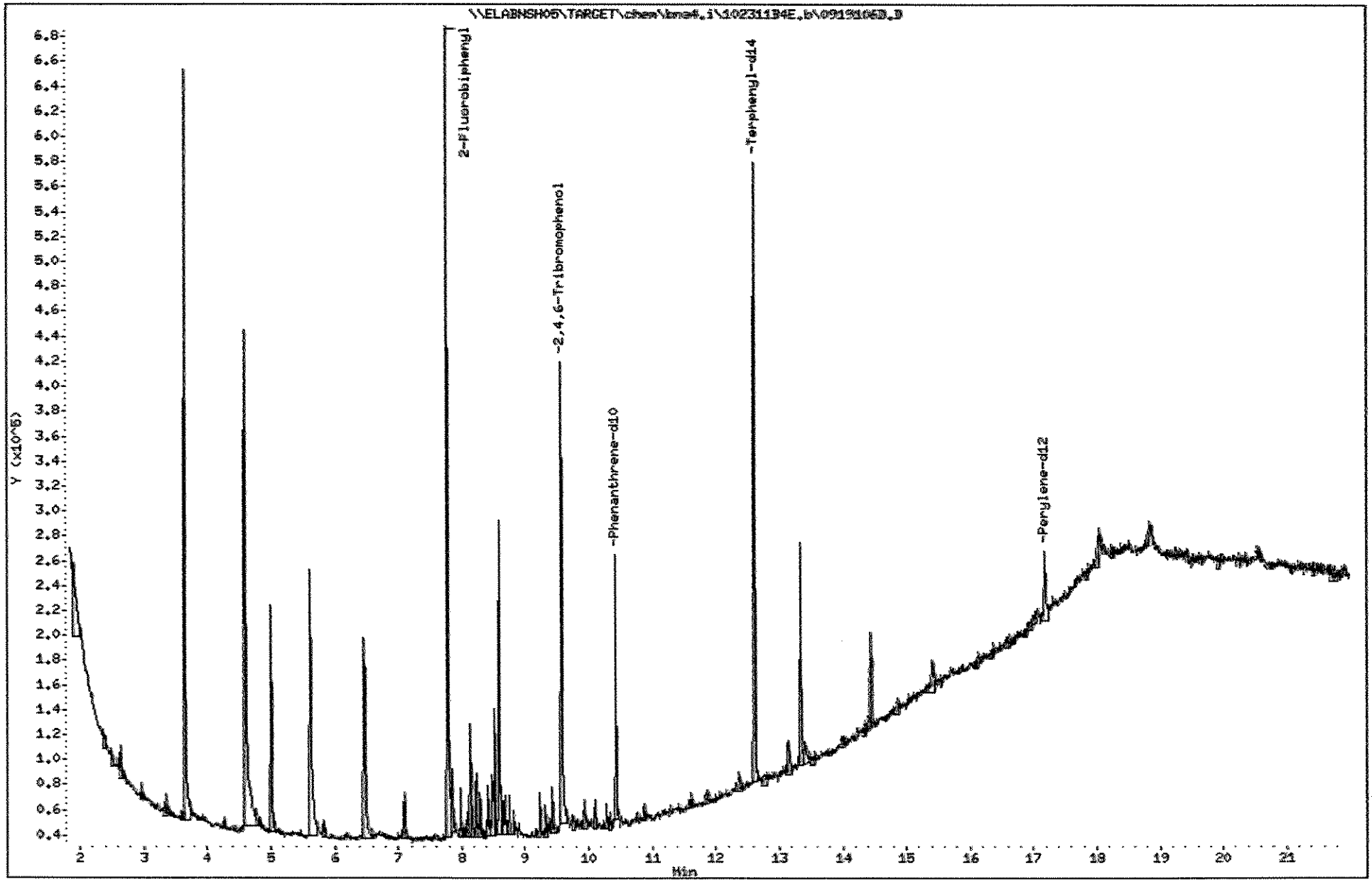
Data File: \\ELABNSH05\TARGET\chem\bna4.i\102311B4E.b\0919106D.D
Report Date: 25-Oct-2011 18:09

QC Flag Legend

a - Target compound detected but, quantitated amount
Below Limit Of Quantitation(BLOQ).

Data File: \\ELABNSH05\TARGET\chem\bma4.i\102311B4E.b\0919106D.D
Date : 24-OCT-2011 03:39
Client ID: FRC-4-SB02-0204-092
Sample Info: 1109191-06;10;15;1000;1;MC/MS;04-OCT-2011
Volume Injected (uL): 1.0
Column phase: fused silica

Instrument: bma4.i
Operator: MEC
Column diameter: 0.25



1078

1109191

Data File: \\ELABNSH05\TARGET\chem\bna4.i\102311D4E.b\0919106D.D

Date : 24-OCT-2011 03:39

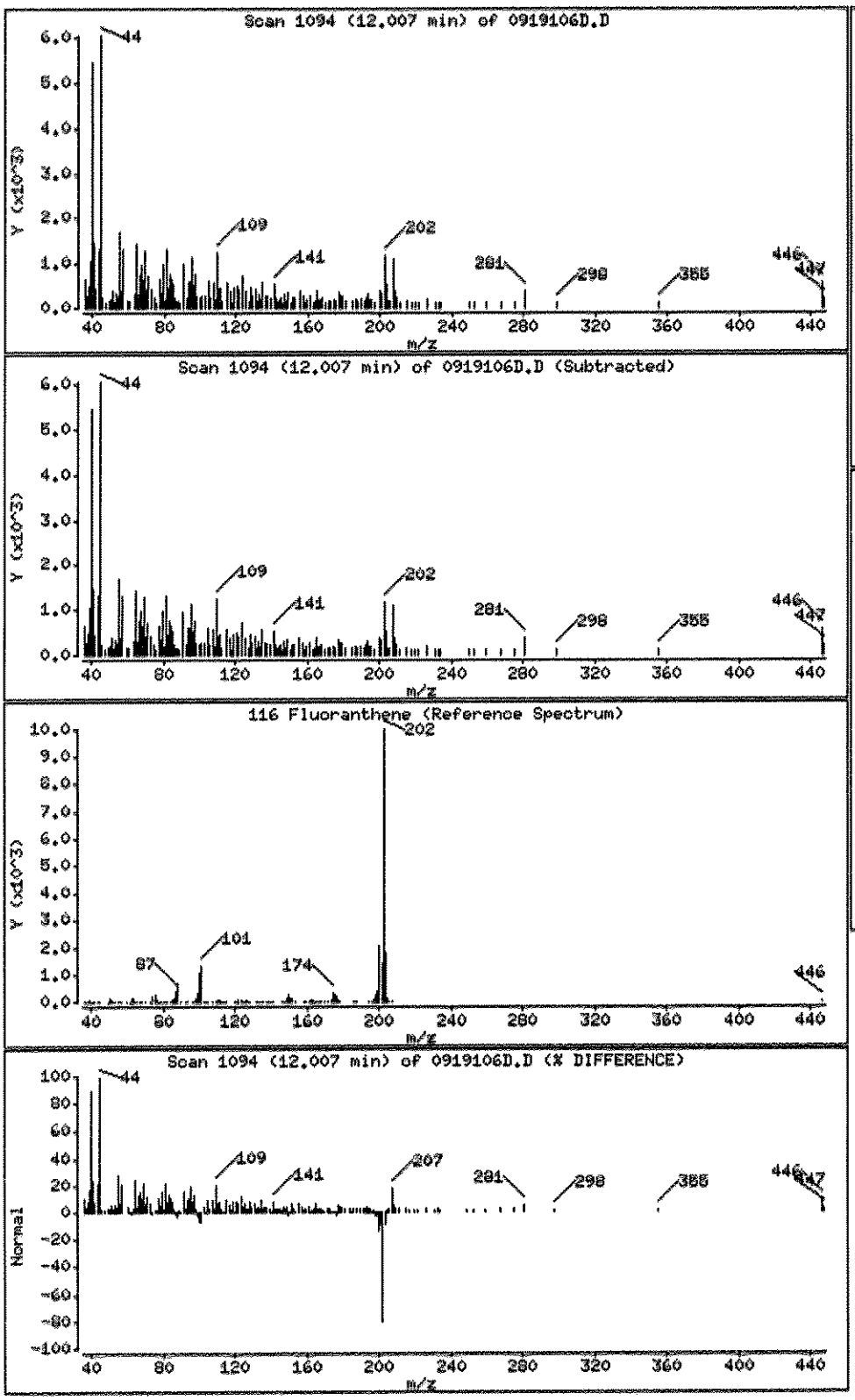
Client ID: FLC-4-SB02-0204-092 Instrument: bna4.i

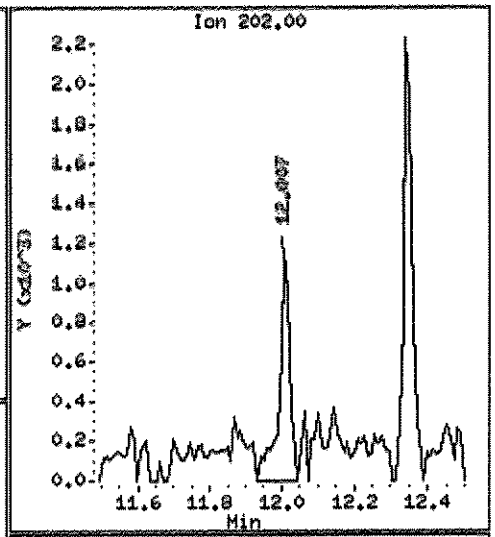
Sample Info: 1109191-06;10;15;1000;1;UG/KG;04-OCT-2011

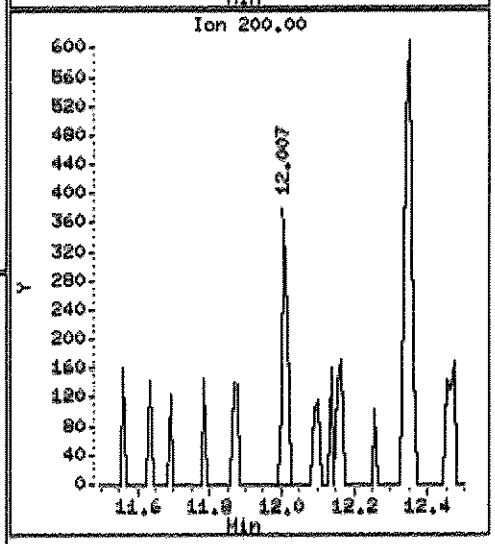
Volume Injected (uL): 1.0 Operator: HEC

Column phase: fused silica Column diameter: 0.25

116 Fluoranthene Concentration: 14.28 UG/KG







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Date : 24-OCT-2011 03:39

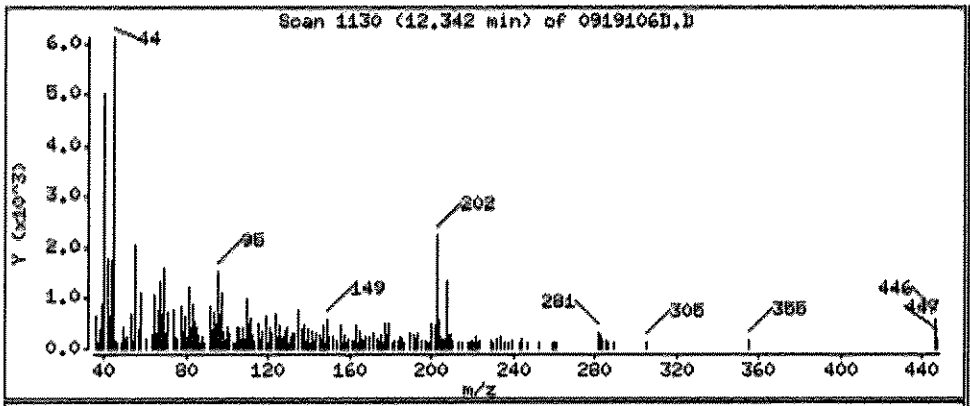
Client ID: FLC-4-SB02-0204-092 Instrument: bna4.i

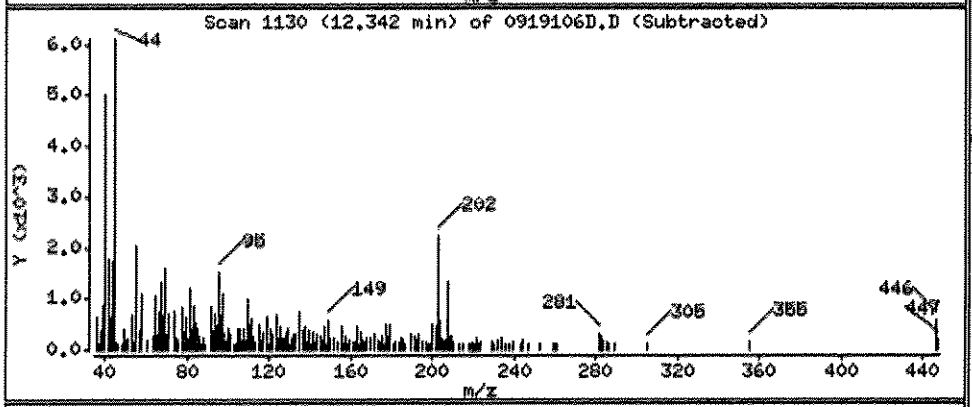
Sample Info: 1109191-06;10;15;1000;1;UG/KG;04-OCT-2011

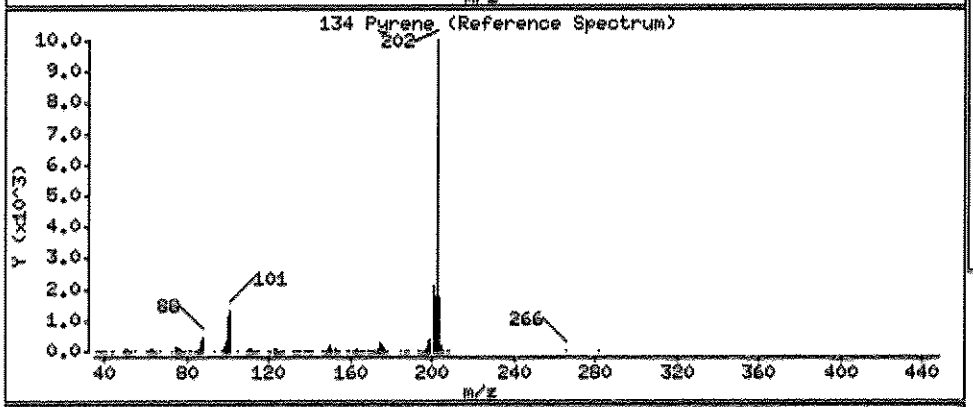
Volume Injected (uL): 1.0 Operator: HEC

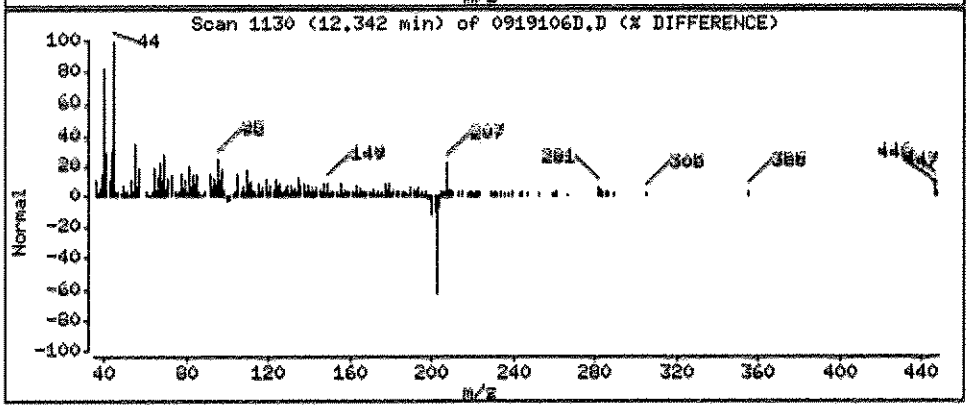
Column phase: Fused silica Column diameter: 0.25

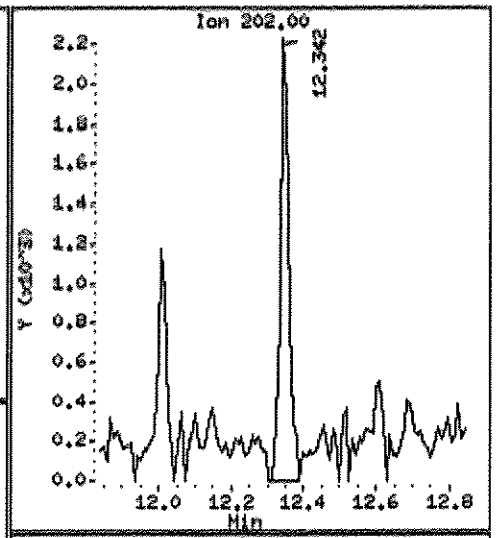
134 Pyrene Concentration: 22.01 UG/KG

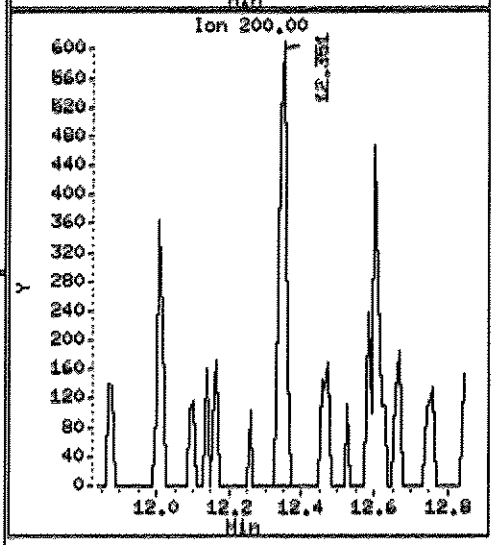












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Date : 24-OCT-2011 03:39

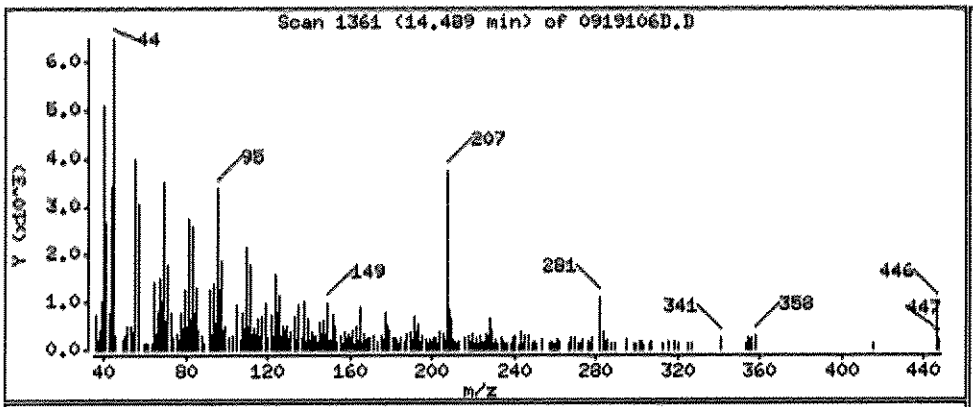
Client ID: FLC-4-SD02-0204-092 Instrument: bna4.i

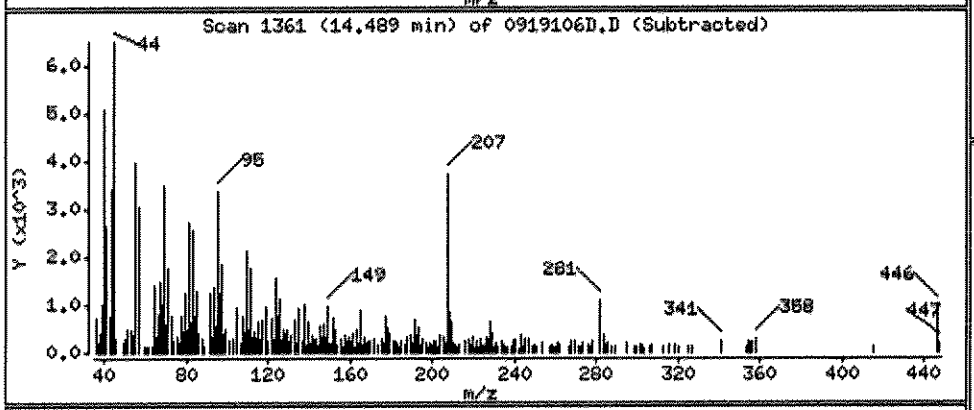
Sample Info: 1109191-06;10;15;1000;1;UG/KG;04-OCT-2011

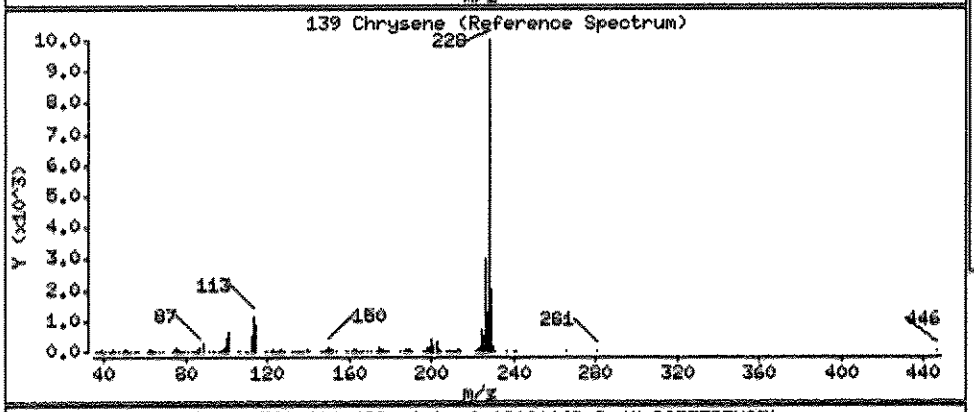
Volume Injected (uL): 1.0 Operator: HEC

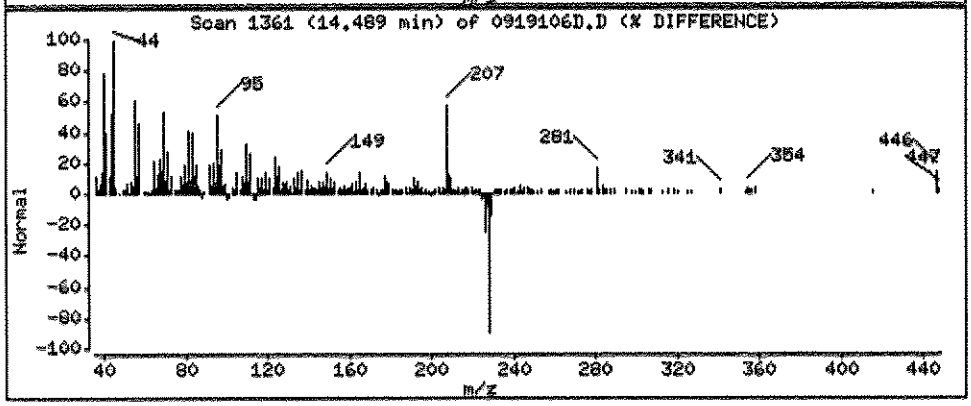
Column phase: fused silica Column diameter: 0.25

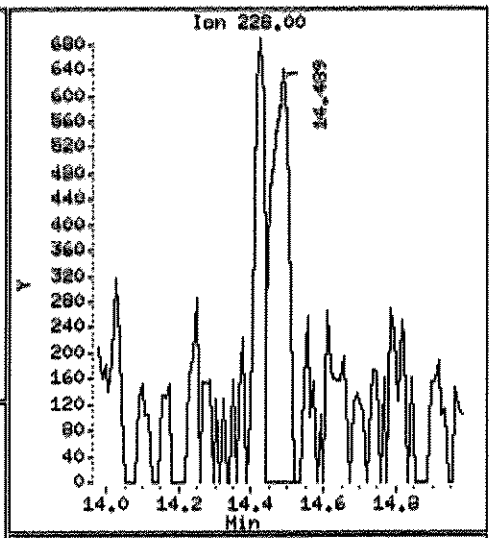
139 Chrysene Concentration: 20.10 UG/KG

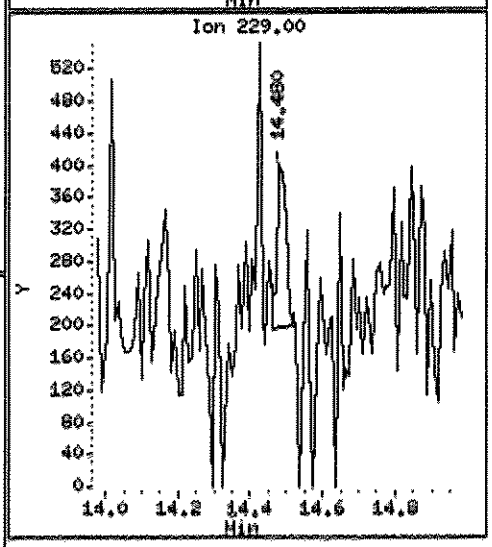












Data File: \\ELADHSHOB\TARGET\chem\bna4.i\102311B4E.b\0919106D.D

Date : 24-OCT-2011 03:39

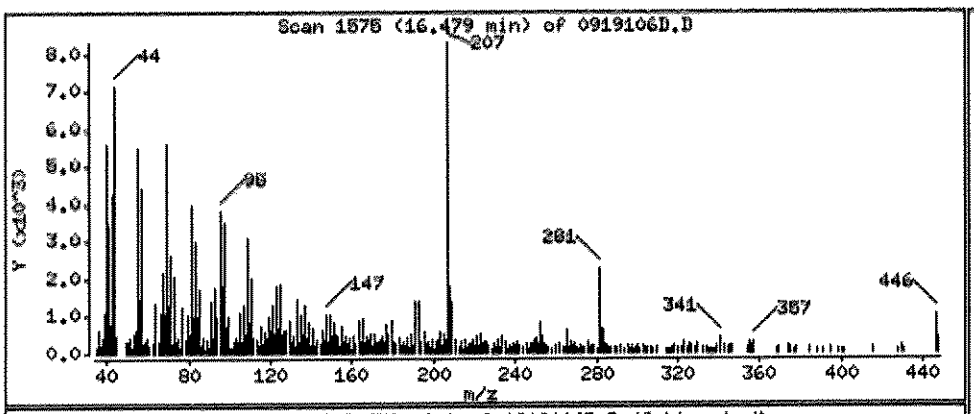
Client ID: FLC-4-SB02-0204-092 Instrument: bna4.i

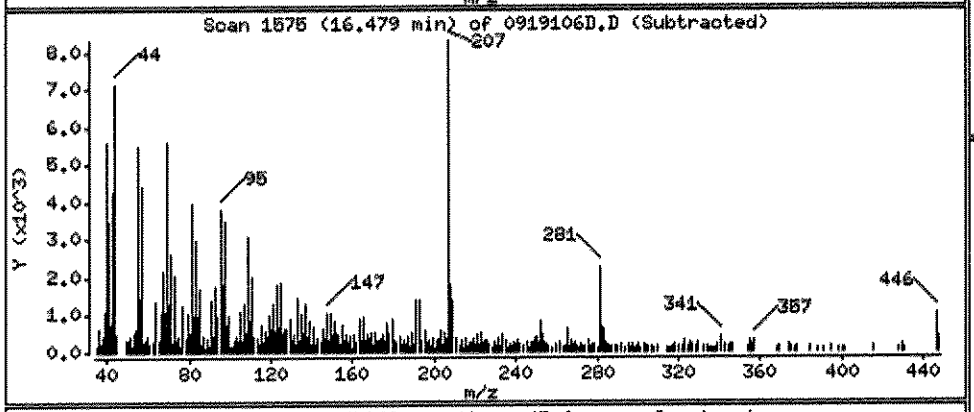
Sample Info: 1109191-06;10;15;1000;1;UG/KG;04-OCT-2011

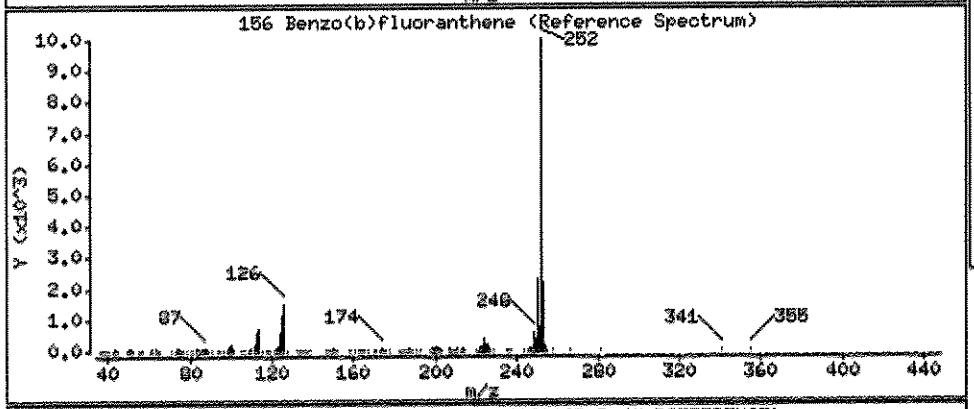
Volume Injected (uL): 1.0 Operator: HEC

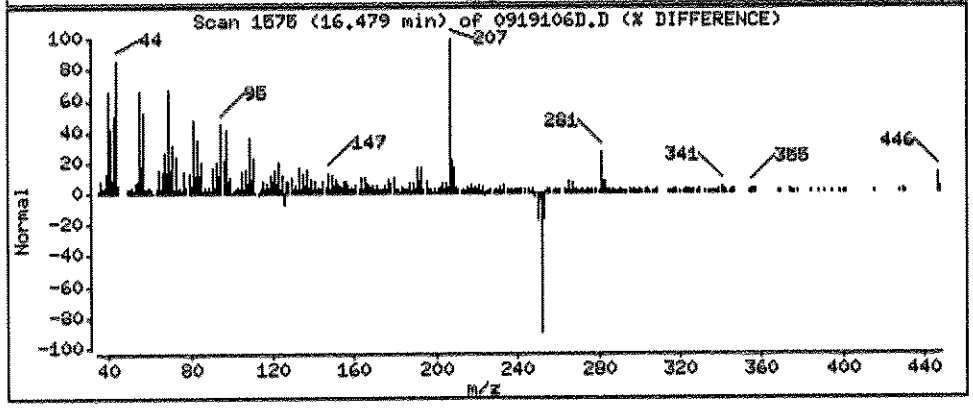
Column phase: fused silica Column diameter: 0.25

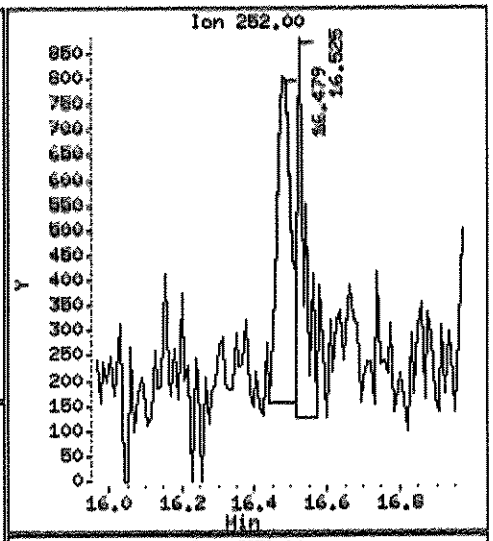
156 Benzo(b)fluoranthene Concentration: 26.42 UG/KG

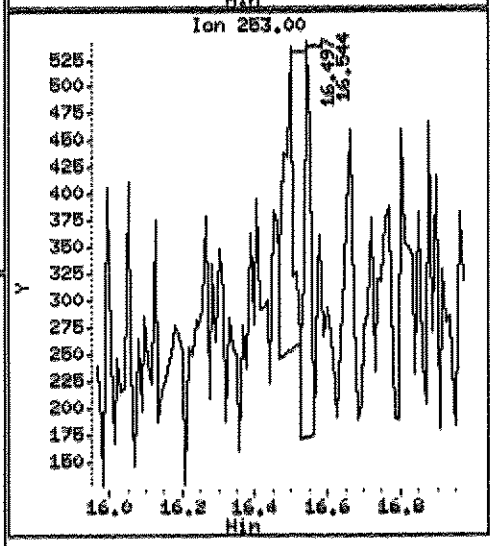












Data File: \\ELABHSH05\TARGET\chem\bna4.i\102311B4E.b\0919106D.D

Date : 24-OCT-2011 03:39

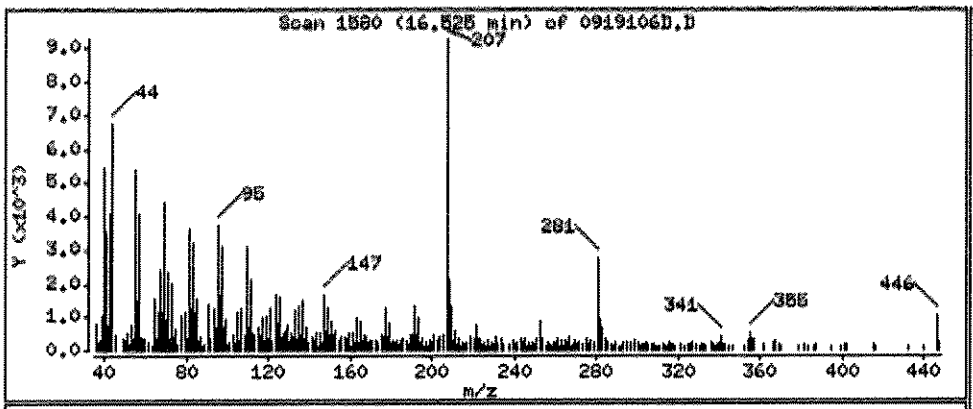
Client ID: FLC-4-SB02-0204-092 Instrument: bna4.i

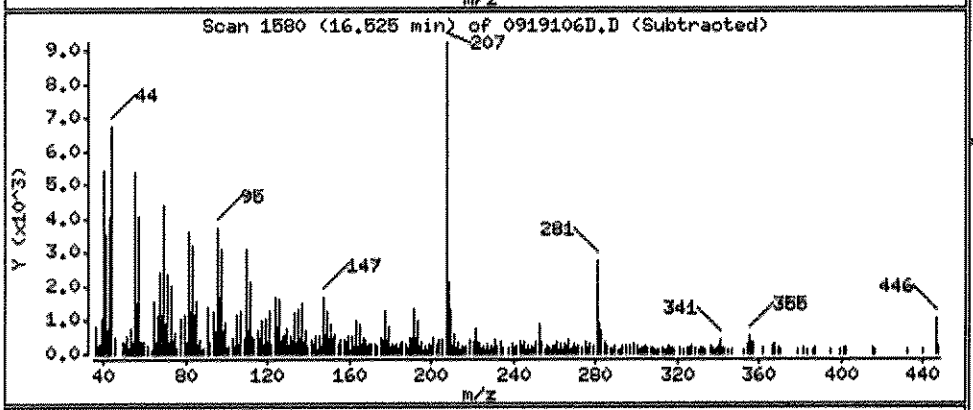
Sample Info: 1109191-06;10;15;1000;1;UG/KG;04-OCT-2011

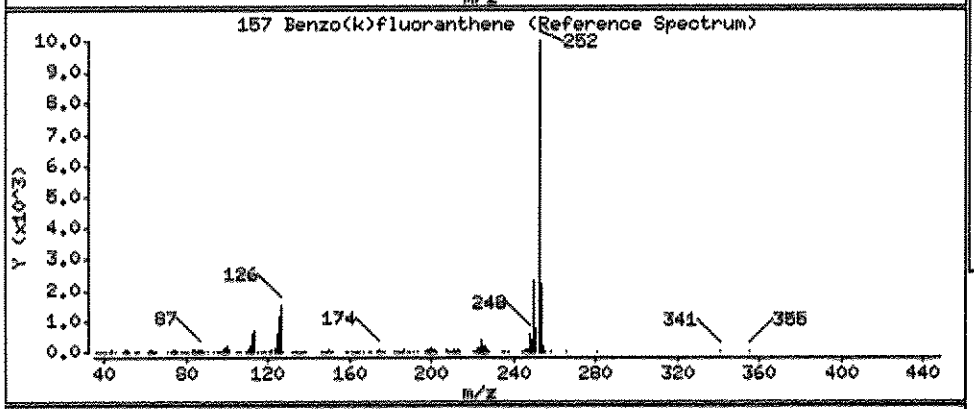
Volume Injected (uL): 1.0 Operator: HEC

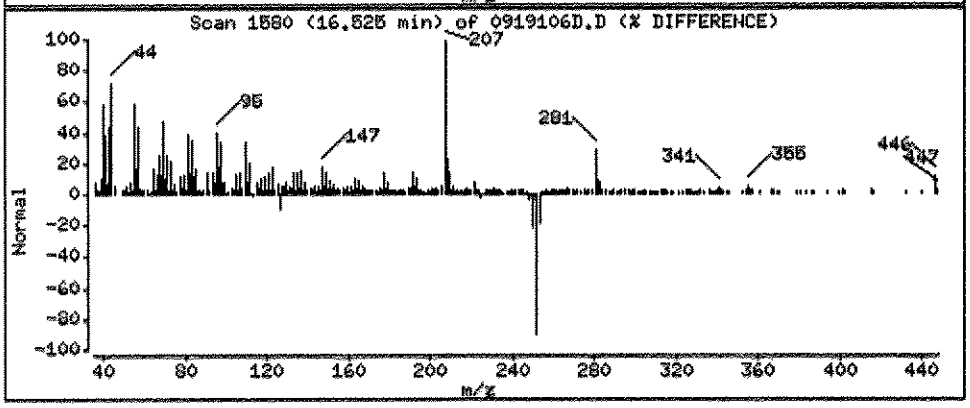
Column phase: fused silica Column diameter: 0.25

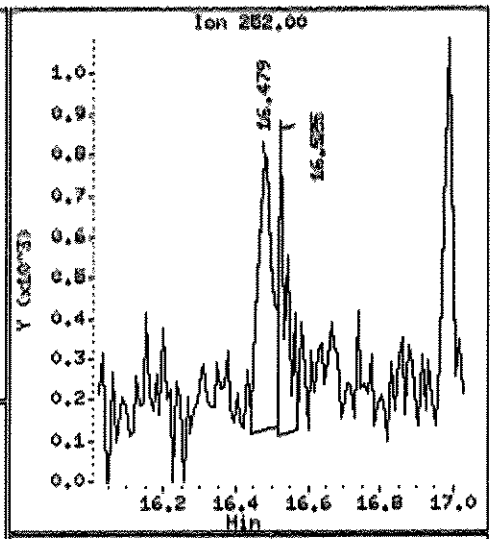
157 Benzo(k)fluoranthene Concentration: 17.32 UG/KG

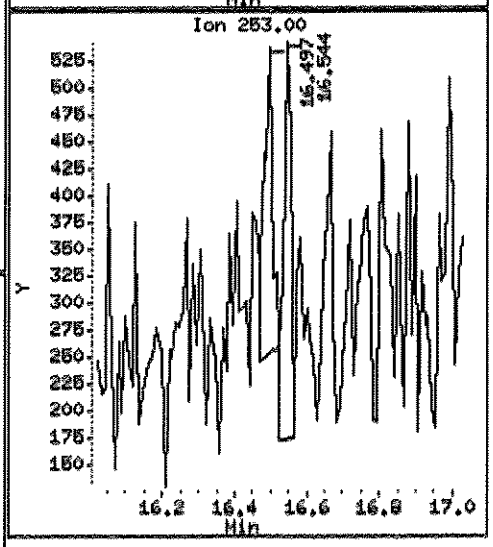












Data File: \\ELADNSHOB\TARGET\chem\bna4.i\10231184E.b\0919106D.D

Date : 24-OCT-2011 03:39

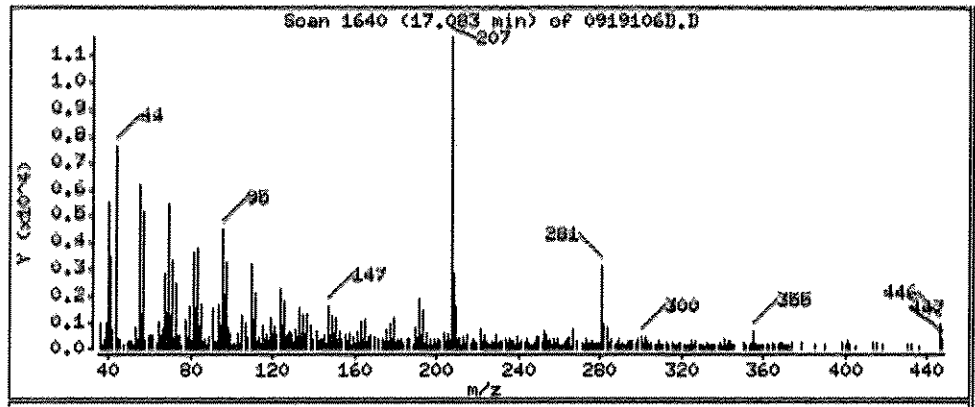
Client ID: FLC-4-SB02-0204-092 Instrument: bna4.i

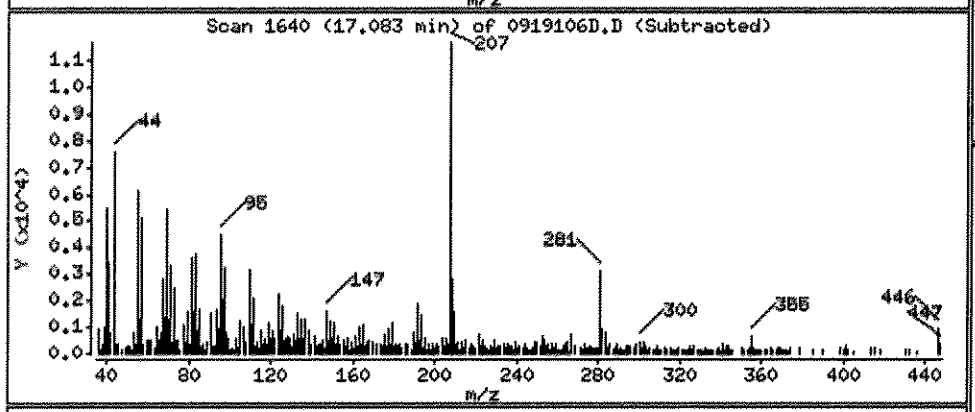
Sample Info: 1109191-06;10;15;1000;1;UG/KG;04-OCT-2011

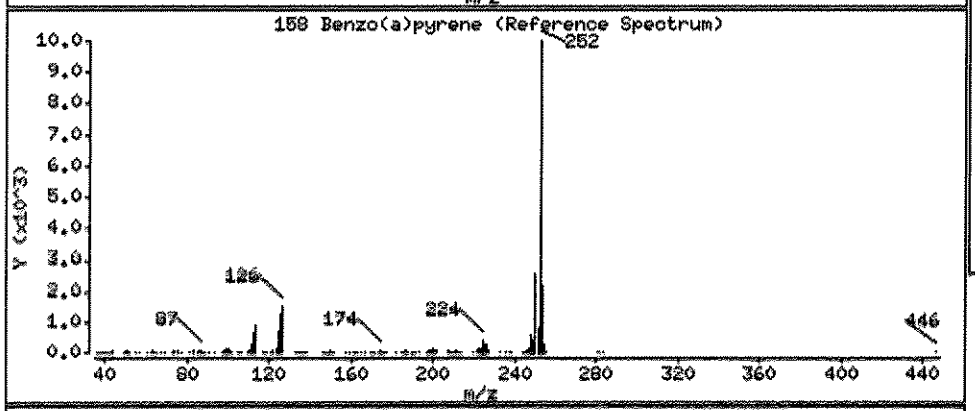
Volume Injected (uL): 1.0 Operator: HEC

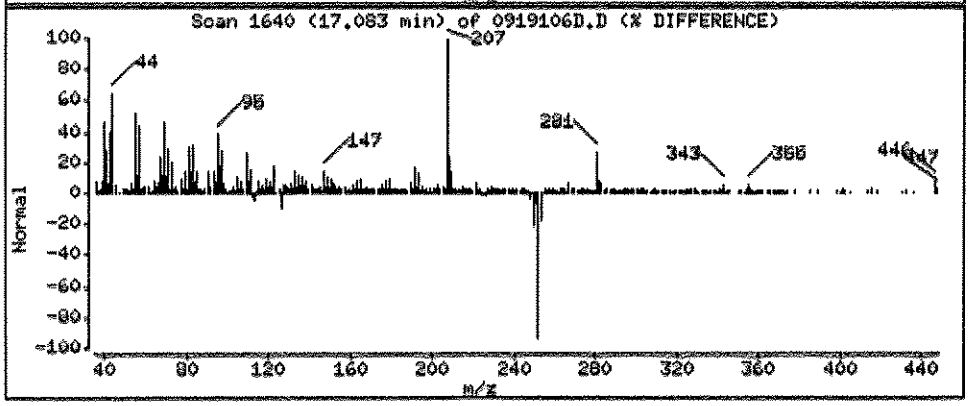
Column phase: fused silica Column diameter: 0.25

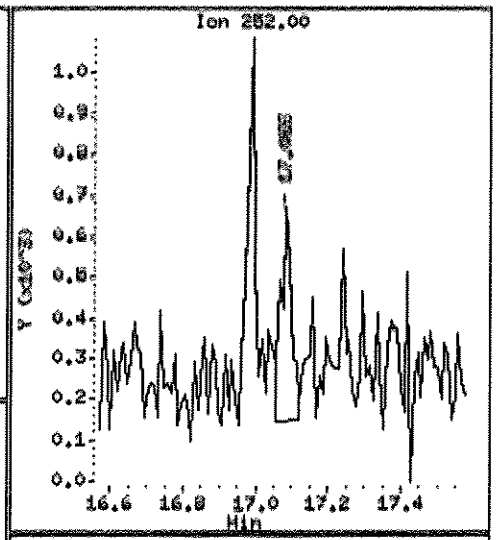
158 Benzo(a)pyrene Concentration: 19.88 UG/KG

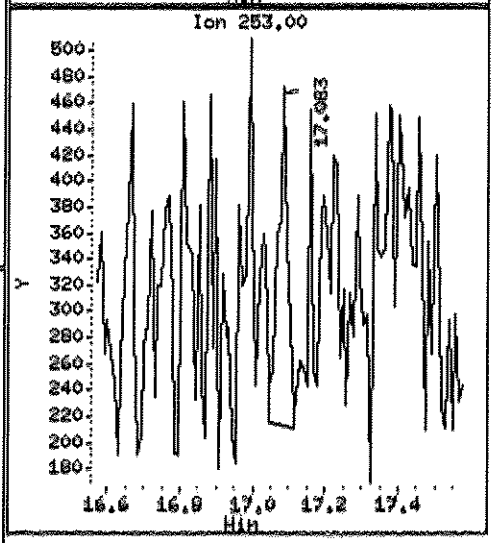












PREPARATION BENCH SHEET

1J03009

Empirical Laboratories, LLC **Printed: 10/29/2011 8:20:45AM**

Instrument:

Matrix: Solid **Prepared using: EXT - EXT_3546** **Surrogate used: 11I0876**

Lab Number	Cont ID	Analysis	Prepared	Initial (g)	Final (mL)	Spike ID	Source ID	ul Spike	ul Surrogate	PH	Extraction Comments
1109191-01	D	SMS_PAH_8270C_3546_LOW	10/04/2011	15	1				500	NA	
1109191-01	D	SMS_BNA_8270C_3546_REG	10/04/2011	15	1				500	NA	potential high conc - special prep
1109191-02	N	SMS_BNA_8270C_3546_REG	10/04/2011	15.2	1				500	NA	potential high conc - special prep,MS/MSD
1109191-02	N	SMS_PAH_8270C_3546_LOW	10/04/2011	15.2	1				500	NA	MS/MSD
1109191-03	E	SMS_BNA_8270C_3546_REG	10/04/2011	15	1				500	NA	potential high conc - special prep
1109191-03	E	SMS_PAH_8270C_3546_LOW	10/04/2011	15	1				500	NA	
1109191-04	D	SMS_BNA_8270C_3546_REG	10/04/2011	15.1	1				500	NA	potential high conc - special prep
1109191-04	D	SMS_PAH_8270C_3546_LOW	10/04/2011	15.1	1				500	NA	
1109191-05	E	SMS_BNA_8270C_3546_REG	10/04/2011	15.6	1				500	NA	potential high conc - special prep
1109191-05	E	SMS_PAH_8270C_3546_LOW	10/04/2011	15.6	1				500	NA	
1109191-06	E	SMS_PAH_8270C_3546_LOW	10/04/2011	15.7	1				500	NA	
1109191-06	E	SMS_BNA_8270C_3546_REG	10/04/2011	15.7	1				500	NA	potential high conc - special prep
1109192-01	E	SMS_BNA_8270C_3546_REG	10/04/2011	15.1	1				500	NA	potential high conc - special prep
1109192-01	E	SMS_PAH_8270C_3546_LOW	10/04/2011	15.1	1				500	NA	
1109192-02	E	SMS_BNA_8270C_3546_REG	10/04/2011	15.3	1				500	NA	potential high conc - special prep
1109192-02	E	SMS_PAH_8270C_3546_LOW	10/04/2011	15.3	1				500	NA	
1109192-03	D	SMS_BNA_8270C_3546_REG	10/04/2011	15	1				500	NA	potential high conc - special prep
1109192-03	D	SMS_PAH_8270C_3546_LOW	10/04/2011	15	1				500	NA	
1109192-04	E	SMS_BNA_8270C_3546_REG	10/04/2011	15	1				500	NA	potential high conc - special prep
1109192-04	E	SMS_PAH_8270C_3546_LOW	10/04/2011	15	1				500	NA	
1109192-05	E	SMS_BNA_8270C_3546_REG	10/04/2011	15	1				500	NA	potential high conc - special prep
1109192-05	E	SMS_PAH_8270C_3546_LOW	10/04/2011	15	1				500	NA	

Spiking Witnessed By Date

Preparation Reviewed By Date

Extracts Received By Date

1085

1109191

PREPARATION BENCH SHEET

1J03009

Empirical Laboratories, LLC **Printed: 10/29/2011 8:20:45AM**

Instrument:

Matrix: Solid **Prepared using: EXT - EXT_3546** **Surrogate used: 11I0876**

Lab Number	Cont ID	Analysis	Prepared	Initial (g)	Final (mL)	Spike ID	Source ID	ul Spike	ul Surrogate	PH	Extraction Comments
1109192-06	E	SMS_BNA_8270C_3546_REG	10/04/2011	15	1				500	NA	potential high conc - special prep
1109192-06	E	SMS_PAH_8270C_3546_LOW	10/04/2011	15	1				500	NA	
1109192-07	D	SMS_PAH_8270C_3546_LOW	10/04/2011	15	1				500	NA	
1109192-07	D	SMS_BNA_8270C_3546_REG	10/04/2011	15	1				500	NA	potential high conc - special prep
1109192-08	E	SMS_BNA_8270C_3546_REG	10/04/2011	15	1				500	NA	potential high conc - special prep
1109192-08	E	SMS_PAH_8270C_3546_LOW	10/04/2011	15	1				500	NA	
1109192-09	D	SMS_BNA_8270C_3546_REG	10/04/2011	15.4	1				500	NA	potential high conc - special prep
1109192-09	D	SMS_PAH_8270C_3546_LOW	10/04/2011	15.4	1				500	NA	
1109192-10	E	SMS_BNA_8270C_3546_REG	10/04/2011	15.5	1				500	NA	potential high conc - special prep
1109192-10	E	SMS_PAH_8270C_3546_LOW	10/04/2011	15.5	1				500	NA	
1109192-11	D	SMS_BNA_8270C_3546_REG	10/04/2011	15.4	1				500	NA	potential high conc - special prep
1109192-11	D	SMS_PAH_8270C_3546_LOW	10/04/2011	15.4	1				500	NA	
1109192-13	E	SMS_BNA_8270C_3546_REG	10/04/2011	15.1	1				500	NA	potential high conc - special prep
1109192-13	E	SMS_PAH_8270C_3546_LOW	10/04/2011	15.1	1				500	NA	
1109192-14	E	SMS_BNA_8270C_3546_REG	10/04/2011	15.7	1				500	NA	potential high conc - special prep
1109192-14	E	SMS_PAH_8270C_3546_LOW	10/04/2011	15.7	1				500	NA	
1109192-15	E	SMS_PAH_8270C_3546_LOW	10/04/2011	15.3	1				500	NA	
1109192-15	E	SMS_BNA_8270C_3546_REG	10/04/2011	15.3	1				500	NA	potential high conc - special prep
1J03009-BLK1		QC	10/04/2011	15	1				500	NA	
1J03009-BLK2		QC	10/04/2011	15	1				500	NA	
1J03009-BLK3		QC	10/04/2011	15	1				500	NA	Added 10/17/2011 by RDW
1J03009-BS1		QC	10/04/2011	15	1	11J0026		500	500	NA	reg

Spiking Witnessed By Date

Preparation Reviewed By Date

Extracts Received By Date

1086

1109191

PREPARATION BENCH SHEET

1J03009

Empirical Laboratories, LLC

Printed: 10/29/2011 8:20:45AM

Instrument:

Matrix: Solid **Prepared using: EXT - EXT_3546** **Surrogate used: 11I0876**

Lab Number	Cont ID	Analysis	Prepared	Initial (g)	Final (mL)	Spike ID	Source ID	ul Spike	ul Surrogate	PH	Extraction Comments
1J03009-BS2		QC	10/04/2011	15	1	11J0025		1000	500	NA	ll
1J03009-BS3		QC	10/04/2011	15	1	11J0026		500	500	NA	Added 10/17/2011 by RDW
1J03009-MS1		QC	10/04/2011	15.3	1	11J0026	1109191-02	500	500	NA	reg
1J03009-MS2		QC	10/04/2011	15.3	1	11J0026	1109191-02	500	500	NA	Added 10/26/2011 by MEC
1J03009-MSD1		QC	10/04/2011	15.3	1	11J0026	1109191-02	500	500	NA	reg
1J03009-MSD2		QC	10/04/2011	15.3	1	11J0026	1109191-02	500	500	NA	Added 10/26/2011 by MEC

Reagents Used:

Standard	Description
11I0738	Methylene Chloride
11I0761	Sodium Sulfate Anhydrous

Spiking Witnessed By Date

Preparation Reviewed By Date

Extracts Received By Date

1087

1109191

Data for SW8082A Forms

ANALYSIS SEQUENCE SUMMARY

SW8082A

Laboratory:	Empirical Laboratories, LLC	SDG:	1109191
Client:	Tetra Tech NUS, Inc. (T010)	Project:	Navy Fuel Depot CTO JM46
Sequence:	1I24906	Instrument:	GL-ECD3
Calibration:	1275001		

Sample Name	Lab Sample ID	Lab File ID	Analysis Date/Time
Cal Standard	1I24906-CALD	025R2501.D	09/01/11 14:10
Cal Standard	1I24906-CALD	025F2501.D	09/01/11 14:10
Cal Standard	1I24906-CALE	026R2601.D	09/01/11 14:28
Cal Standard	1I24906-CALE	026F2601.D	09/01/11 14:28
Cal Standard	1I24906-CALF	027R2701.D	09/01/11 14:47
Cal Standard	1I24906-CALF	027F2701.D	09/01/11 14:47
Cal Standard	1I24906-CALG	028R2801.D	09/01/11 15:06
Cal Standard	1I24906-CALG	028F2801.D	09/01/11 15:06
Cal Standard	1I24906-CALH	029R2901.D	09/01/11 15:25
Cal Standard	1I24906-CALH	029F2901.D	09/01/11 15:25
Cal Standard	1I24906-CALI	030R3001.D	09/01/11 15:43
Cal Standard	1I24906-CALI	030F3001.D	09/01/11 15:43
Initial Cal Check	1I24906-ICV3	031R3101.D	09/01/11 16:02
Initial Cal Check	1I24906-ICV3	031F3101.D	09/01/11 16:02

ANALYSIS SEQUENCE SUMMARY

SW8082A

Laboratory:	Empirical Laboratories, LLC	SDG:	1109191
Client:	Tetra Tech NUS, Inc. (T010)	Project:	Navy Fuel Depot CTO JM46
Sequence:	1J27502	Instrument:	GL-ECD3
Calibration:	1275001		

Sample Name	Lab Sample ID	Lab File ID	Analysis Date/Time
Cal Standard	1J27502-CAL7	003R0301.D	09/28/11 09:32
Cal Standard	1J27502-CAL7	003F0301.D	09/28/11 09:32
Cal Standard	1J27502-CAL6	004R0401.D	09/28/11 09:51
Cal Standard	1J27502-CAL6	004F0401.D	09/28/11 09:51
Cal Standard	1J27502-CAL5	005R0501.D	09/28/11 10:10
Cal Standard	1J27502-CAL5	005F0501.D	09/28/11 10:10
Cal Standard	1J27502-CAL4	006R0601.D	09/28/11 10:28
Cal Standard	1J27502-CAL4	006F0601.D	09/28/11 10:28
Cal Standard	1J27502-CAL3	007R0701.D	09/28/11 10:47
Cal Standard	1J27502-CAL3	007F0701.D	09/28/11 10:47
Cal Standard	1J27502-CAL2	008R0801.D	09/28/11 11:06
Cal Standard	1J27502-CAL2	008F0801.D	09/28/11 11:06
Cal Standard	1J27502-CAL1	009R0901.D	09/28/11 11:24
Cal Standard	1J27502-CAL1	009F0901.D	09/28/11 11:24

ANALYSIS SEQUENCE SUMMARY

SW8082A

Laboratory:	Empirical Laboratories, LLC	SDG:	1109191
Client:	Tetra Tech NUS, Inc. (T010)	Project:	Navy Fuel Depot CTO JM46
Sequence:	1J27601	Instrument:	GL-ECD3
Calibration:	1275001		

Sample Name	Lab Sample ID	Lab File ID	Analysis Date/Time
Calibration Check	1J27601-CCV1	011R1101.D	09/28/11 12:02
Calibration Check	1J27601-CCV1	011F1101.D	09/28/11 12:02
Calibration Check	1J27601-CCV4	014R1401.D	09/28/11 12:58
Calibration Check	1J27601-CCV4	014F1401.D	09/28/11 12:58
Blank	1I23014-BLK1	028R2801.D	09/28/11 17:20
Blank	1I23014-BLK1	028F2801.D	09/28/11 17:20
LCS	1I23014-BS1	029R2901.D	09/28/11 17:38
LCS	1I23014-BS1	029F2901.D	09/28/11 17:38
LCS Dup	1I23014-BSD1	030R3001.D	09/28/11 17:57
LCS Dup	1I23014-BSD1	030F3001.D	09/28/11 17:57
Calibration Check	1J27601-CCV5	037R3701.D	09/28/11 20:08
Calibration Check	1J27601-CCV5	037F3701.D	09/28/11 20:08
Calibration Check	1J27601-CCV8	040R4001.D	09/28/11 21:04
Calibration Check	1J27601-CCV8	040F4001.D	09/28/11 21:04

ANALYSIS SEQUENCE SUMMARY

SW8082A

Laboratory:	Empirical Laboratories, LLC	SDG:	1109191
Client:	Tetra Tech NUS, Inc. (T010)	Project:	Navy Fuel Depot CTO JM46
Sequence:	1J27703	Instrument:	GL-ECD3
Calibration:	1277003		

Sample Name	Lab Sample ID	Lab File ID	Analysis Date/Time
Cal Standard	1J27703-CAL6	004R0401.D	09/30/11 07:06
Cal Standard	1J27703-CAL6	004F0401.D	09/30/11 07:06
Cal Standard	1J27703-CAL5	005R0501.D	09/30/11 07:25
Cal Standard	1J27703-CAL5	005F0501.D	09/30/11 07:25
Cal Standard	1J27703-CAL4	006R0601.D	09/30/11 07:44
Cal Standard	1J27703-CAL4	006F0601.D	09/30/11 07:44
Cal Standard	1J27703-CAL3	007R0701.D	09/30/11 08:02
Cal Standard	1J27703-CAL3	007F0701.D	09/30/11 08:02
Cal Standard	1J27703-CAL2	008R0801.D	09/30/11 08:21
Cal Standard	1J27703-CAL2	008F0801.D	09/30/11 08:21
Cal Standard	1J27703-CAL1	009R0901.D	09/30/11 08:40
Cal Standard	1J27703-CAL1	009F0901.D	09/30/11 08:40
Cal Standard	1J27703-CAL7	015R1501.D	09/30/11 11:18
Cal Standard	1J27703-CAL7	015F1501.D	09/30/11 11:18

ANALYSIS SEQUENCE SUMMARY

SW8082A

Laboratory:	Empirical Laboratories, LLC	SDG:	1109191
Client:	Tetra Tech NUS, Inc. (T010)	Project:	Navy Fuel Depot CTO JM46
Sequence:	1J27708	Instrument:	GL-ECD3
Calibration:	1277003		

Sample Name	Lab Sample ID	Lab File ID	Analysis Date/Time
Calibration Check	1J27708-CCV1	003R0301.D	09/30/11 14:18
Calibration Check	1J27708-CCV1	003F0301.D	09/30/11 14:18
Calibration Check	1J27708-CCV7	022R2201.D	09/30/11 20:15
Calibration Check	1J27708-CCV7	022F2201.D	09/30/11 20:15
Calibration Check	1J27708-CCVA	025R2501.D	09/30/11 21:11
Calibration Check	1J27708-CCVA	025F2501.D	09/30/11 21:11
FLC-4-RB01-092211	1109191-10	032R3801.D	10/01/11 01:15
FLC-4-RB01-092211	1109191-10	032F3801.D	10/01/11 01:15
Calibration Check	1J27708-CCVD	039R4501.D	10/01/11 03:27
Calibration Check	1J27708-CCVD	039F4501.D	10/01/11 03:27
Calibration Check	1J27708-CCVG	042R4801.D	10/01/11 04:23
Calibration Check	1J27708-CCVG	042F4801.D	10/01/11 04:23

ANALYSIS SEQUENCE SUMMARY

SW8082A

Laboratory:	Empirical Laboratories, LLC	SDG:	1109191
Client:	Tetra Tech NUS, Inc. (T010)	Project:	Navy Fuel Depot CTO JM46
Sequence:	1J28607	Instrument:	GL-ECD3
Calibration:	1286006		

Sample Name	Lab Sample ID	Lab File ID	Analysis Date/Time
Cal Standard	1J28607-CAL6	022F2201.D	10/10/11 17:52
Cal Standard	1J28607-CAL6	022R2201.D	10/10/11 17:52
Cal Standard	1J28607-CAL5	023F2301.D	10/10/11 18:11
Cal Standard	1J28607-CAL5	023R2301.D	10/10/11 18:11
Cal Standard	1J28607-CAL4	024F2401.D	10/10/11 18:29
Cal Standard	1J28607-CAL4	024R2401.D	10/10/11 18:29
Cal Standard	1J28607-CAL3	025F2501.D	10/10/11 18:48
Cal Standard	1J28607-CAL3	025R2501.D	10/10/11 18:48
Cal Standard	1J28607-CAL2	026F2601.D	10/10/11 19:07
Cal Standard	1J28607-CAL2	026R2601.D	10/10/11 19:07
Cal Standard	1J28607-CAL1	027R2701.D	10/10/11 19:26
Cal Standard	1J28607-CAL1	027F2701.D	10/10/11 19:26
Initial Cal Check	1J28607-ICV1	028R2801.D	10/10/11 19:45
Initial Cal Check	1J28607-ICV1	028F2801.D	10/10/11 19:45
Cal Standard	1J28607-CAL7	029R2901.D	10/10/11 20:03
Cal Standard	1J28607-CAL7	029F2901.D	10/10/11 20:03
Cal Standard	1J28607-CAL8	030R3001.D	10/10/11 20:22
Cal Standard	1J28607-CAL8	030F3001.D	10/10/11 20:22
Cal Standard	1J28607-CAL9	031F3101.D	10/10/11 20:41
Cal Standard	1J28607-CAL9	031R3101.D	10/10/11 20:41
Cal Standard	1J28607-CALA	032F3201.D	10/10/11 21:00
Cal Standard	1J28607-CALA	032R3201.D	10/10/11 21:00
Cal Standard	1J28607-CALB	033F3301.D	10/10/11 21:19
Cal Standard	1J28607-CALB	033R3301.D	10/10/11 21:19
Cal Standard	1J28607-CALC	034F3401.D	10/10/11 21:37
Cal Standard	1J28607-CALC	034R3401.D	10/10/11 21:37
Initial Cal Check	1J28607-ICV2	035R3501.D	10/10/11 21:56
Initial Cal Check	1J28607-ICV2	035F3501.D	10/10/11 21:56

ANALYSIS SEQUENCE SUMMARY

SW8082A

Laboratory:	Empirical Laboratories, LLC	SDG:	1109191
Client:	Tetra Tech NUS, Inc. (T010)	Project:	Navy Fuel Depot CTO JM46
Sequence:	1J28715	Instrument:	GL-ECD3
Calibration:	1286006		

Sample Name	Lab Sample ID	Lab File ID	Analysis Date/Time
Calibration Check	1J28715-CCV1	002F0201.D	10/12/11 13:35
Calibration Check	1J28715-CCV1	002R0201.D	10/12/11 13:35
Calibration Check	1J28715-CCV5	037R3701.D	10/13/11 00:31
Calibration Check	1J28715-CCV5	037F3701.D	10/13/11 00:31
Calibration Check	1J28715-CCV6	038R3801.D	10/13/11 00:50
Calibration Check	1J28715-CCV6	038F3801.D	10/13/11 00:50
Blank	1I29016-BLK1	048F4801.D	10/13/11 03:57
Blank	1I29016-BLK1	048R4801.D	10/13/11 03:57
LCS	1I29016-BS1	049R4901.D	10/13/11 04:16
LCS	1I29016-BS1	049F4901.D	10/13/11 04:16
FLC-4-SS01-0006-092211	1109191-01	050R5001.D	10/13/11 04:35
FLC-4-SS01-0006-092211	1109191-01	050F5001.D	10/13/11 04:35
Calibration Check	1J28715-CCV7	051R5101.D	10/13/11 04:53
Calibration Check	1J28715-CCV7	051F5101.D	10/13/11 04:53
Calibration Check	1J28715-CCV8	052F5201.D	10/13/11 05:12
Calibration Check	1J28715-CCV8	052R5201.D	10/13/11 05:12
FLC-4-SS01-0624-092211	1109191-02	053F5301.D	10/13/11 05:31
FLC-4-SS01-0624-092211	1109191-02	053R5301.D	10/13/11 05:31
FLC-4-SS01-0624-092211	1I29016-MS1	054R5401.D	10/13/11 05:50
FLC-4-SS01-0624-092211	1I29016-MS1	054F5401.D	10/13/11 05:50
FLC-4-SS01-0624-092211	1I29016-MSD1	055R5501.D	10/13/11 06:09
FLC-4-SS01-0624-092211	1I29016-MSD1	055F5501.D	10/13/11 06:09
FLC-4-SB01-0204-092211	1109191-03	056F5601.D	10/13/11 06:27
FLC-4-SB01-0204-092211	1109191-03	056R5601.D	10/13/11 06:27
FLC-4-SS02-0006-092211	1109191-04	057R5701.D	10/13/11 06:46
FLC-4-SS02-0006-092211	1109191-04	057F5701.D	10/13/11 06:46
FLC-4-SS02-0624-092211	1109191-05	058R5801.D	10/13/11 07:05
FLC-4-SS02-0624-092211	1109191-05	058F5801.D	10/13/11 07:05
FLC-4-SB02-0204-092211	1109191-06	059R5901.D	10/13/11 07:23
FLC-4-SB02-0204-092211	1109191-06	059F5901.D	10/13/11 07:23
Calibration Check	1J28715-CCV9	065F6501.D	10/13/11 09:15
Calibration Check	1J28715-CCV9	065R6501.D	10/13/11 09:15

ANALYSIS SEQUENCE SUMMARY

SW8082A

Laboratory:	Empirical Laboratories, LLC	SDG:	1109191
Client:	Tetra Tech NUS, Inc. (T010)	Project:	Navy Fuel Depot CTO JM46
Sequence:	1J28715	Instrument:	GL-ECD3
Calibration:	1286006		

Sample Name	Lab Sample ID	Lab File ID	Analysis Date/Time
Calibration Check	1J28715-CCVA	066R6601.D	10/13/11 09:34
Calibration Check	1J28715-CCVA	066F6601.D	10/13/11 09:34

ANALYSIS DATA SHEET

FLC-4-SS01-0006-092211

Laboratory:	Empirical Laboratories, LLC			SDG:	1109191
Client:	Tetra Tech NUS, Inc. (T010)			Project:	Navy Fuel Depot CTO JM46
Matrix:	Soil	Laboratory ID:	1109191-01	File ID:	050F5001.D
Sampled:	09/22/11 08:45	Prepared:	10/03/11 11:30	Analyzed:	10/13/11 04:35
Solids:	97.94	Preparation:	EXT_3546	Dilution:	1

Batch: 1I29016 Sequence: 1J28715 Calibration: 1286006 Instrument: GL-ECD3

CAS NO.	COMPOUND	CONC. (ug/Kg dry)	DL	LOD	LOQ	Q
12674-11-2	Aroclor-1016		4.18	8.28	16.9	UQ
11104-28-2	Aroclor-1221		4.18	8.28	16.9	U
11141-16-5	Aroclor-1232		4.18	8.28	16.9	U
53469-21-9	Aroclor-1242		4.18	8.28	16.9	U
12672-29-6	Aroclor-1248		4.18	8.28	16.9	U
11097-69-1	Aroclor-1254		4.18	8.28	16.9	U
11096-82-5	Aroclor-1260		4.18	8.28	16.9	UQ

SYSTEM MONITORING COMPOUND	ADDED (ug/Kg dry)	CONC (ug/Kg dry)	% REC	QC LIMITS	Q
Tetrachloro-m-xylene	16.58	27.87	168	70 - 125	*
Tetrachloro-m-xylene [2C]	16.58	27.61	167	70 - 125	*
Decachlorobiphenyl	16.58	25.29	153	60 - 125	*
Decachlorobiphenyl [2C]	16.58	26.69	161	60 - 125	*

* Values outside of QC limits

ANALYSIS DATA SHEET

FLC-4-SS01-0624-092211

Laboratory:	Empirical Laboratories, LLC			SDG:	1109191
Client:	Tetra Tech NUS, Inc. (T010)			Project:	Navy Fuel Depot CTO JM46
Matrix:	Soil	Laboratory ID:	1109191-02	File ID:	053F5301.D
Sampled:	09/22/11 09:00	Prepared:	10/03/11 11:30	Analyzed:	10/13/11 05:31
Solids:	96.12	Preparation:	EXT_3546	Dilution:	1

Batch: 1I29016 Sequence: 1J28715 Calibration: 1286006 Instrument: GL-ECD3

CAS NO.	COMPOUND	CONC. (ug/Kg dry)	DL	LOD	LOQ	Q
12674-11-2	Aroclor-1016		4.20	8.33	17.0	UQ, N
11104-28-2	Aroclor-1221		4.20	8.33	17.0	U
11141-16-5	Aroclor-1232		4.20	8.33	17.0	U
53469-21-9	Aroclor-1242		4.20	8.33	17.0	U
12672-29-6	Aroclor-1248		4.20	8.33	17.0	U
11097-69-1	Aroclor-1254		4.20	8.33	17.0	U
11096-82-5	Aroclor-1260		4.20	8.33	17.0	UN, Q

SYSTEM MONITORING COMPOUND	ADDED (ug/Kg dry)	CONC (ug/Kg dry)	% REC	QC LIMITS	Q
Tetrachloro-m-xylene	16.67	22.96	138	70 - 125	*
Tetrachloro-m-xylene [2C]	16.67	23.88	143	70 - 125	*Y
Decachlorobiphenyl	16.67	21.18	127	60 - 125	*
Decachlorobiphenyl [2C]	16.67	23.13	139	60 - 125	*Y

* Values outside of QC limits

ANALYSIS DATA SHEET

FLC-4-SB01-0204-092211

Laboratory:	Empirical Laboratories, LLC			SDG:	1109191
Client:	Tetra Tech NUS, Inc. (T010)			Project:	Navy Fuel Depot CTO JM46
Matrix:	Soil	Laboratory ID:	1109191-03	File ID:	056F5601.D
Sampled:	09/22/11 09:25	Prepared:	10/03/11 11:30	Analyzed:	10/13/11 06:27
Solids:	89.14	Preparation:	EXT_3546	Dilution:	1

Batch: 1I29016 Sequence: 1J28715 Calibration: 1286006 Instrument: GL-ECD3

CAS NO.	COMPOUND	CONC. (ug/Kg dry)	DL	LOD	LOQ	Q
12674-11-2	Aroclor-1016		4.47	8.87	18.1	UQ
11104-28-2	Aroclor-1221		4.47	8.87	18.1	U
11141-16-5	Aroclor-1232		4.47	8.87	18.1	U
53469-21-9	Aroclor-1242		4.47	8.87	18.1	U
12672-29-6	Aroclor-1248		4.47	8.87	18.1	U
11097-69-1	Aroclor-1254		4.47	8.87	18.1	U
11096-82-5	Aroclor-1260		4.47	8.87	18.1	UQ

SYSTEM MONITORING COMPOUND	ADDED (ug/Kg dry)	CONC (ug/Kg dry)	% REC	QC LIMITS	Q
Tetrachloro-m-xylene	17.75	24.83	140	70 - 125	*
Tetrachloro-m-xylene [2C]	17.75	25.70	145	70 - 125	*Y
Decachlorobiphenyl	17.75	22.95	129	60 - 125	*
Decachlorobiphenyl [2C]	17.75	24.36	137	60 - 125	*Y

* Values outside of QC limits

ANALYSIS DATA SHEET

FLC-4-SS02-0006-092211

Laboratory:	Empirical Laboratories, LLC			SDG:	1109191
Client:	Tetra Tech NUS, Inc. (T010)			Project:	Navy Fuel Depot CTO JM46
Matrix:	Soil	Laboratory ID:	1109191-04	File ID:	057F5701.D
Sampled:	09/22/11 10:05	Prepared:	10/03/11 11:30	Analyzed:	10/13/11 06:46
Solids:	93.66	Preparation:	EXT_3546	Dilution:	1

Batch: 1I29016 Sequence: 1J28715 Calibration: 1286006 Instrument: GL-ECD3

CAS NO.	COMPOUND	CONC. (ug/Kg dry)	DL	LOD	LOQ	Q
12674-11-2	Aroclor-1016		4.43	8.78	17.9	UQ
11104-28-2	Aroclor-1221		4.43	8.78	17.9	U
11141-16-5	Aroclor-1232		4.43	8.78	17.9	U
53469-21-9	Aroclor-1242		4.43	8.78	17.9	U
12672-29-6	Aroclor-1248		4.43	8.78	17.9	U
11097-69-1	Aroclor-1254		4.43	8.78	17.9	U
11096-82-5	Aroclor-1260		4.43	8.78	17.9	UQ

SYSTEM MONITORING COMPOUND	ADDED (ug/Kg dry)	CONC (ug/Kg dry)	% REC	QC LIMITS	Q
Tetrachloro-m-xylene	17.56	26.13	149	70 - 125	*
Tetrachloro-m-xylene [2C]	17.56	24.80	141	70 - 125	*Y
Decachlorobiphenyl	17.56	21.76	124	60 - 125	
Decachlorobiphenyl [2C]	17.56	20.13	115	60 - 125	Y

* Values outside of QC limits

ANALYSIS DATA SHEET

FLC-4-SS02-0624-092211

Laboratory:	Empirical Laboratories, LLC			SDG:	1109191
Client:	Tetra Tech NUS, Inc. (T010)			Project:	Navy Fuel Depot CTO JM46
Matrix:	Soil	Laboratory ID:	1109191-05	File ID:	058F5801.D
Sampled:	09/22/11 10:20	Prepared:	10/03/11 11:30	Analyzed:	10/13/11 07:05
Solids:	98.08	Preparation:	EXT_3546	Dilution:	1

Batch: 1I29016 Sequence: 1J28715 Calibration: 1286006 Instrument: GL-ECD3

CAS NO.	COMPOUND	CONC. (ug/Kg dry)	DL	LOD	LOQ	Q
12674-11-2	Aroclor-1016		4.20	8.33	17.0	UQ
11104-28-2	Aroclor-1221		4.20	8.33	17.0	U
11141-16-5	Aroclor-1232		4.20	8.33	17.0	U
53469-21-9	Aroclor-1242		4.20	8.33	17.0	U
12672-29-6	Aroclor-1248		4.20	8.33	17.0	U
11097-69-1	Aroclor-1254		4.20	8.33	17.0	U
11096-82-5	Aroclor-1260		4.20	8.33	17.0	UQ

SYSTEM MONITORING COMPOUND	ADDED (ug/Kg dry)	CONC (ug/Kg dry)	% REC	QC LIMITS	Q
Tetrachloro-m-xylene	16.66	28.19	169	70 - 125	*
Tetrachloro-m-xylene [2C]	16.66	27.58	166	70 - 125	*Y
Decachlorobiphenyl	16.66	27.66	166	60 - 125	*
Decachlorobiphenyl [2C]	16.66	27.73	166	60 - 125	*Y

* Values outside of QC limits

ANALYSIS DATA SHEET

FLC-4-SB02-0204-092211

Laboratory:	Empirical Laboratories, LLC			SDG:	1109191
Client:	Tetra Tech NUS, Inc. (T010)			Project:	Navy Fuel Depot CTO JM46
Matrix:	Soil	Laboratory ID:	1109191-06	File ID:	059F5901.D
Sampled:	09/22/11 10:30	Prepared:	10/03/11 11:30	Analyzed:	10/13/11 07:23
Solids:	94.12	Preparation:	EXT_3546	Dilution:	1

Batch: 1I29016 Sequence: 1J28715 Calibration: 1286006 Instrument: GL-ECD3

CAS NO.	COMPOUND	CONC. (ug/Kg dry)	DL	LOD	LOQ	Q
12674-11-2	Aroclor-1016		4.24	8.40	17.1	UQ
11104-28-2	Aroclor-1221		4.24	8.40	17.1	U
11141-16-5	Aroclor-1232		4.24	8.40	17.1	U
53469-21-9	Aroclor-1242		4.24	8.40	17.1	U
12672-29-6	Aroclor-1248		4.24	8.40	17.1	U
11097-69-1	Aroclor-1254		4.24	8.40	17.1	U
11096-82-5	Aroclor-1260		4.24	8.40	17.1	UQ

SYSTEM MONITORING COMPOUND	ADDED (ug/Kg dry)	CONC (ug/Kg dry)	% REC	QC LIMITS	Q
Tetrachloro-m-xylene	16.81	25.68	153	70 - 125	*
Tetrachloro-m-xylene [2C]	16.81	25.89	154	70 - 125	*Y
Decachlorobiphenyl	16.81	22.04	131	60 - 125	*
Decachlorobiphenyl [2C]	16.81	22.04	131	60 - 125	*Y

* Values outside of QC limits

ANALYSIS DATA SHEET

FLC-4-RB01-092211

Laboratory:	Empirical Laboratories, LLC			SDG:	1109191
Client:	Tetra Tech NUS, Inc. (T010)			Project:	Navy Fuel Depot CTO JM46
Matrix:	Water	Laboratory ID:	1109191-10	File ID:	032F3801.D
Sampled:	09/22/11 11:15	Prepared:	09/26/11 13:10	Analyzed:	10/01/11 01:15
Solids:		Preparation:	EXT_3510	Dilution:	1

Batch: 1I23014 Sequence: 1J27708 Calibration: 1277003 Instrument: GL-ECD3

CAS NO.	COMPOUND	CONC. (ug/L)	DL	LOD	LOQ	Q
12674-11-2	Aroclor-1016		0.112	0.234	0.467	UXQ,
11104-28-2	Aroclor-1221		0.112	0.234	0.467	U
11141-16-5	Aroclor-1232		0.112	0.234	0.467	U
53469-21-9	Aroclor-1242		0.112	0.234	0.467	U
12672-29-6	Aroclor-1248		0.112	0.234	0.467	U
11097-69-1	Aroclor-1254		0.112	0.234	0.467	U
11096-82-5	Aroclor-1260		0.112	0.234	0.467	UX

SYSTEM MONITORING COMPOUND	ADDED (ug/L)	CONC (ug/L)	% REC	QC LIMITS	Q
Tetrachloro-m-xylene	0.4673	0.2798	59.9	25 - 140	
Tetrachloro-m-xylene [2C]	0.4673	0.2325	49.8	25 - 140	
Decachlorobiphenyl	0.4673	0.1379	29.5	40 - 135	*
Decachlorobiphenyl [2C]	0.4673	0.1239	26.5	40 - 135	*Y

* Values outside of QC limits

LCS / LCS DUPLICATE RECOVERY

SW8082A

Laboratory:	Empirical Laboratories, LLC	SDG:	1109191
Client:	Tetra Tech NUS, Inc. (T010)	Project:	Navy Fuel Depot CTO JM46
Matrix:	Water		
Batch:	1I23014	Laboratory ID:	1I23014-BS1
Preparation:	EXT_3510	Initial/Final:	1000 mL / 10 mL

ANALYTE	SPIKE ADDED (ug/L)	LCS CONCENTRATION (ug/L)	LCS % REC.	QC LIMITS REC.
Aroclor-1016	**5.000**	**7.541**	**151**	**25 - 145**
Aroclor-1016 [2C]	**5.000**	**9.351**	**187**	**25 - 145**
Aroclor-1260	5.000	6.434	129	30 - 145
Aroclor-1260 [2C]	**5.000**	**9.205**	**184**	**30 - 145**

ANALYTE	SPIKE ADDED (ug/L)	LCSD CONCENTRATION (ug/L)	LCSD % REC. #	% RPD #	QC LIMITS RPD	QC LIMITS REC.
Aroclor-1016	5.000	7.247	145	3.97	30	25 - 145
Aroclor-1016 [2C]	**5.000**	**9.033**	**181 ***	**3.46**	**30**	**25 - 145**
Aroclor-1260	5.000	6.193	124	3.82	30	30 - 145
Aroclor-1260 [2C]	**5.000**	**8.993**	**180 ***	**2.33**	**30**	**30 - 145**

LCS / LCS DUPLICATE RECOVERY

SW8082A

Laboratory:	Empirical Laboratories, LLC	SDG:	1109191
Client:	Tetra Tech NUS, Inc. (T010)	Project:	Navy Fuel Depot CTO JM46
Matrix:	Solid		
Batch:	1I29016	Laboratory ID:	1I29016-BS1
Preparation:	EXT_3546	Initial/Final:	15 g / 5 mL

ANALYTE	SPIKE ADDED (ug/Kg wet)	LCS CONCENTRATION (ug/Kg wet)	LCS % REC.	QC LIMITS REC.
Aroclor-1016	**33.33**	**84.01**	**252**	**40 - 140**
Aroclor-1016 [2C]	**33.33**	**126.6**	**380**	**40 - 140**
Aroclor-1260	**166.7**	**329.3**	**198**	**60 - 130**
Aroclor-1260 [2C]	**166.7**	**492.2**	**295**	**60 - 130**

MATRIX SPIKE / MATRIX SPIKE DUPLICATE RECOVERY

SW8082A

FLC-4-SS01-0624-092211

Laboratory: Empirical Laboratories, LLC

SDG: 1109191

Client: Tetra Tech NUS, Inc. (T010)

Project: Navy Fuel Depot CTO JM46

Matrix: Solid

Batch: 1I29016

% Solids: 96.12

Source Sample Name: **1109191-02**

ANALYTE	SPIKE ADDED (ug/Kg dry)	SAMPLE CONCENTRATION (ug/Kg dry)	MS CONCENTRATION (ug/Kg dry)	MS % REC.	Q	QC LIMITS REC.
Aroclor-1016	33.78	ND	72.98	216	*	40 - 140
Aroclor-1016 [2C]	33.78	ND	105.7	313	*	40 - 140
Aroclor-1260	168.9	ND	292.0	173	*	60 - 130
Aroclor-1260 [2C]	168.9	ND	398.8	236	*	60 - 130

ANALYTE	SPIKE ADDED (ug/Kg dry)	MSD CONCENTRATION (ug/Kg dry)	MSD % REC. #	% RPD	Q	QC LIMITS RPD	QC LIMITS REC.
Aroclor-1016	34.00	78.42	231	7.19	*	30	40 - 140
Aroclor-1016 [2C]	34.00	113.7	334	7.26	*	30	40 - 140
Aroclor-1260	170.0	309.5	182	5.80	*	30	60 - 130
Aroclor-1260 [2C]	170.0	417.2	245	4.53	*	30	60 - 130

PREPARATION BATCH SUMMARY

SW8082A

Laboratory: Empirical Laboratories, LLC SDG: 1109191

Client: Tetra Tech NUS, Inc. (T010) Project: Navy Fuel Depot CTO JM46

Batch: 1I23014 Batch Matrix: Water Preparation: EXT_3510

SAMPLE NAME	LAB SAMPLE ID	DATE PREPARED	INITIAL VOL./WEIGHT	FINAL VOL.
FLC-4-RB01-092211	1109191-10	09/26/11 13:10	1,070.00	10.00
Blank	1I23014-BLK1	09/26/11 13:10	1,000.00	10.00
LCS	1I23014-BS1	09/26/11 13:10	1,000.00	10.00
LCS Dup	1I23014-BSD1	09/26/11 13:10	1,000.00	10.00

PREPARATION BATCH SUMMARY

SW8082A

Laboratory: Empirical Laboratories, LLC SDG: 1109191

Client: Tetra Tech NUS, Inc. (T010) Project: Navy Fuel Depot CTO JM46

Batch: 1I29016 Batch Matrix: Solid Preparation: EXT_3546

SAMPLE NAME	LAB SAMPLE ID	DATE PREPARED	INITIAL VOL./WEIGHT	FINAL VOL.
FLC-4-SS01-0006-092211	1109191-01	10/03/11 11:30	15.40	5.00
FLC-4-SS01-0624-092211	1109191-02	10/03/11 11:30	15.60	5.00
FLC-4-SB01-0204-092211	1109191-03	10/03/11 11:30	15.80	5.00
FLC-4-SS02-0006-092211	1109191-04	10/03/11 11:30	15.20	5.00
FLC-4-SS02-0624-092211	1109191-05	10/03/11 11:30	15.30	5.00
FLC-4-SB02-0204-092211	1109191-06	10/03/11 11:30	15.80	5.00
Blank	1I29016-BLK1	10/03/11 11:30	15.00	5.00
LCS	1I29016-BS1	10/03/11 11:30	15.00	5.00
FLC-4-SS01-0624-092211	1I29016-MS1	10/03/11 11:30	15.40	5.00
FLC-4-SS01-0624-092211	1I29016-MSD1	10/03/11 11:30	15.30	5.00

ANALYSIS DATA SHEET

Blank

Laboratory:	Empirical Laboratories, LLC	SDG:	1109191
Client:	Tetra Tech NUS, Inc. (T010)	Project:	Navy Fuel Depot CTO JM46

Matrix:		Laboratory ID:	1I23014-BLK1	File ID:	028F2801.D
Sampled:		Prepared:	09/26/11 13:10	Analyzed:	09/28/11 17:20
Solids:		Preparation:	EXT_3510	Dilution:	

Batch:	1I23014	Sequence:	1J27601	Calibration:	1275001	Instrument:	GL-ECD3

CAS NO.	COMPOUND	CONC. (ug/L)	DL	LOD	LOQ	Q
12674-11-2	Aroclor-1016		0.120	0.250	0.500	UX
11104-28-2	Aroclor-1221		0.120	0.250	0.500	U
11141-16-5	Aroclor-1232		0.120	0.250	0.500	U
53469-21-9	Aroclor-1242		0.120	0.250	0.500	U
12672-29-6	Aroclor-1248		0.120	0.250	0.500	U
11097-69-1	Aroclor-1254		0.120	0.250	0.500	U
11096-82-5	Aroclor-1260		0.120	0.250	0.500	UX

SYSTEM MONITORING COMPOUND	ADDED (ug/L)	CONC (ug/L)	% REC	QC LIMITS	Q
Tetrachloro-m-xylene	0.5000	0.3595	71.9	25 - 140	
Tetrachloro-m-xylene [2C]	0.5000	0.3642	72.8	25 - 140	
Decachlorobiphenyl	0.5000	0.2757	55.1	40 - 135	
Decachlorobiphenyl [2C]	0.5000	0.2897	57.9	40 - 135	

* Values outside of QC limits

ANALYSIS DATA SHEET

Blank

Laboratory:	Empirical Laboratories, LLC	SDG:	1109191
Client:	Tetra Tech NUS, Inc. (T010)	Project:	Navy Fuel Depot CTO JM46

Matrix:		Laboratory ID:	1I29016-BLK1	File ID:	048F4801.D
Sampled:		Prepared:	10/03/11 11:30	Analyzed:	10/13/11 03:57
Solids:		Preparation:	EXT_3546	Dilution:	

Batch:	1I29016	Sequence:	1J28715	Calibration:	1286006	Instrument:	GL-ECD3

CAS NO.	COMPOUND	CONC. (ug/Kg wet)	DL	LOD	LOQ	Q
12674-11-2	Aroclor-1016		4.20	8.33	17.0	U
11104-28-2	Aroclor-1221		4.20	8.33	17.0	U
11141-16-5	Aroclor-1232		4.20	8.33	17.0	U
53469-21-9	Aroclor-1242		4.20	8.33	17.0	U
12672-29-6	Aroclor-1248		4.20	8.33	17.0	U
11097-69-1	Aroclor-1254		4.20	8.33	17.0	U
11096-82-5	Aroclor-1260		4.20	8.33	17.0	U

SYSTEM MONITORING COMPOUND	ADDED (ug/Kg wet)	CONC (ug/Kg wet)	% REC	QC LIMITS	Q
Tetrachloro-m-xylene	16.67	25.21	151	70 - 125	*
Tetrachloro-m-xylene [2C]	16.67	27.15	163	70 - 125	*
Decachlorobiphenyl	16.67	25.54	153	60 - 125	*
Decachlorobiphenyl [2C]	16.67	26.88	161	60 - 125	*

* Values outside of QC limits

INITIAL CALIBRATION STANDARDS

SW8082A

Laboratory:	Empirical Laboratories, LLC	SDG:	1109191
Client:	Tetra Tech NUS, Inc. (T010)	Project:	Navy Fuel Depot CTO JM46
Sequence:	1I24906	Instrument:	GL-ECD3
Calibration:	1275001		

Standard ID	Description	Lab Sample ID	Lab File ID	Analysis Date/Time
11H0841	Aro-1660 Cal1@2500/125	1I24906-CALD	025F2501.D	09/01/11 14:10
11H0841	Aro-1660 Cal1@2500/125	1I24906-CALD	025R2501.D	09/01/11 14:10
11H0840	Aro-1660 Cal2@1000/50 (CCV)	1I24906-CALE	026F2601.D	09/01/11 14:28
11H0840	Aro-1660 Cal2@1000/50 (CCV)	1I24906-CALE	026R2601.D	09/01/11 14:28
11H0842	Aro-1660 Cal3@750/37.5	1I24906-CALF	027F2701.D	09/01/11 14:47
11H0842	Aro-1660 Cal3@750/37.5	1I24906-CALF	027R2701.D	09/01/11 14:47
11H0844	Aro-1660 Cal4@500/25	1I24906-CALG	028F2801.D	09/01/11 15:06
11H0844	Aro-1660 Cal4@500/25	1I24906-CALG	028R2801.D	09/01/11 15:06
11H0843	Aro-1660 Cal5@100/5	1I24906-CALH	029R2901.D	09/01/11 15:25
11H0843	Aro-1660 Cal5@100/5	1I24906-CALH	029F2901.D	09/01/11 15:25
11H0845	Aro-1660 Cal6@50/2.5	1I24906-CALI	030F3001.D	09/01/11 15:43
11H0845	Aro-1660 Cal6@50/2.5	1I24906-CALI	030R3001.D	09/01/11 15:43

INITIAL CALIBRATION STANDARDS

SW8082A

Laboratory:	Empirical Laboratories, LLC	SDG:	1109191
Client:	Tetra Tech NUS, Inc. (T010)	Project:	Navy Fuel Depot CTO JM46
Sequence:	1J27502	Instrument:	GL-ECD3
Calibration:	1275001		

Standard ID	Description	Lab Sample ID	Lab File ID	Analysis Date/Time
11H0802	Pest_ICAL7@1ppb	1J27502-CAL7	003R0301.D	09/28/11 09:32
11H0802	Pest_ICAL7@1ppb	1J27502-CAL7	003F0301.D	09/28/11 09:32
11H0801	Pest_ICAL6@5ppb	1J27502-CAL6	004R0401.D	09/28/11 09:51
11H0801	Pest_ICAL6@5ppb	1J27502-CAL6	004F0401.D	09/28/11 09:51
11H0800	Pest_ICAL5@10ppb	1J27502-CAL5	005R0501.D	09/28/11 10:10
11H0800	Pest_ICAL5@10ppb	1J27502-CAL5	005F0501.D	09/28/11 10:10
11H0799	Pest_ICAL4@25ppb	1J27502-CAL4	006F0601.D	09/28/11 10:28
11H0799	Pest_ICAL4@25ppb	1J27502-CAL4	006R0601.D	09/28/11 10:28
11H0798	Pest_ICAL3@50ppb	1J27502-CAL3	007F0701.D	09/28/11 10:47
11H0798	Pest_ICAL3@50ppb	1J27502-CAL3	007R0701.D	09/28/11 10:47
11H0818	Pest. ICAL2 @ 100ppb	1J27502-CAL2	008R0801.D	09/28/11 11:06
11H0818	Pest. ICAL2 @ 100ppb	1J27502-CAL2	008F0801.D	09/28/11 11:06
11H0796	Pest_ICAL1@200ppb	1J27502-CAL1	009R0901.D	09/28/11 11:24
11H0796	Pest_ICAL1@200ppb	1J27502-CAL1	009F0901.D	09/28/11 11:24

INITIAL CALIBRATION STANDARDS

SW8082A

Laboratory:	Empirical Laboratories, LLC	SDG:	1109191
Client:	Tetra Tech NUS, Inc. (T010)	Project:	Navy Fuel Depot CTO JM46
Sequence:	1I24906	Instrument:	GL-ECD3
Calibration:	1277003		

Standard ID	Description	Lab Sample ID	Lab File ID	Analysis Date/Time
11H0841	Aro-1660 Cal1@2500/125	1I24906-CALD	025F2501.D	09/01/11 14:10
11H0841	Aro-1660 Cal1@2500/125	1I24906-CALD	025R2501.D	09/01/11 14:10
11H0840	Aro-1660 Cal2@1000/50 (CCV)	1I24906-CALE	026F2601.D	09/01/11 14:28
11H0840	Aro-1660 Cal2@1000/50 (CCV)	1I24906-CALE	026R2601.D	09/01/11 14:28
11H0842	Aro-1660 Cal3@750/37.5	1I24906-CALF	027F2701.D	09/01/11 14:47
11H0842	Aro-1660 Cal3@750/37.5	1I24906-CALF	027R2701.D	09/01/11 14:47
11H0844	Aro-1660 Cal4@500/25	1I24906-CALG	028F2801.D	09/01/11 15:06
11H0844	Aro-1660 Cal4@500/25	1I24906-CALG	028R2801.D	09/01/11 15:06
11H0843	Aro-1660 Cal5@100/5	1I24906-CALH	029R2901.D	09/01/11 15:25
11H0843	Aro-1660 Cal5@100/5	1I24906-CALH	029F2901.D	09/01/11 15:25
11H0845	Aro-1660 Cal6@50/2.5	1I24906-CALI	030R3001.D	09/01/11 15:43
11H0845	Aro-1660 Cal6@50/2.5	1I24906-CALI	030F3001.D	09/01/11 15:43

INITIAL CALIBRATION STANDARDS

SW8082A

Laboratory:	Empirical Laboratories, LLC	SDG:	1109191
Client:	Tetra Tech NUS, Inc. (T010)	Project:	Navy Fuel Depot CTO JM46
Sequence:	1J27703	Instrument:	GL-ECD3
Calibration:	1277003		

Standard ID	Description	Lab Sample ID	Lab File ID	Analysis Date/Time
11I0868	Pest_ICAL6 @ 5ppb	1J27703-CAL6	004R0401.D	09/30/11 07:06
11I0868	Pest_ICAL6 @ 5ppb	1J27703-CAL6	004F0401.D	09/30/11 07:06
11I0869	Pest_ICAL5 @ 10ppb	1J27703-CAL5	005R0501.D	09/30/11 07:25
11I0869	Pest_ICAL5 @ 10ppb	1J27703-CAL5	005F0501.D	09/30/11 07:25
11I0839	Pest_ICAL4@25ppb	1J27703-CAL4	006F0601.D	09/30/11 07:44
11I0839	Pest_ICAL4@25ppb	1J27703-CAL4	006R0601.D	09/30/11 07:44
11I0840	Pest_ICAL3@50ppb	1J27703-CAL3	007F0701.D	09/30/11 08:02
11I0840	Pest_ICAL3@50ppb	1J27703-CAL3	007R0701.D	09/30/11 08:02
11I0841	Pest. ICAL2 @ 100ppb	1J27703-CAL2	008R0801.D	09/30/11 08:21
11I0841	Pest. ICAL2 @ 100ppb	1J27703-CAL2	008F0801.D	09/30/11 08:21
11I0842	Pest_ICAL1@200ppb	1J27703-CAL1	009R0901.D	09/30/11 08:40
11I0842	Pest_ICAL1@200ppb	1J27703-CAL1	009F0901.D	09/30/11 08:40
11I0878	Pest_ICAL7 @ 1ppb	1J27703-CAL7	015R1501.D	09/30/11 11:18
11I0878	Pest_ICAL7 @ 1ppb	1J27703-CAL7	015F1501.D	09/30/11 11:18

INITIAL CALIBRATION STANDARDS

SW8082A

Laboratory:	Empirical Laboratories, LLC	SDG:	1109191
Client:	Tetra Tech NUS, Inc. (T010)	Project:	Navy Fuel Depot CTO JM46
Sequence:	1J27703	Instrument:	GL-ECD3
Calibration:	1286006		

Standard ID	Description	Lab Sample ID	Lab File ID	Analysis Date/Time
11I0868	Pest_ICAL6 @ 5ppb	1J27703-CAL6	004R0401.D	09/30/11 07:06
11I0868	Pest_ICAL6 @ 5ppb	1J27703-CAL6	004F0401.D	09/30/11 07:06
11I0869	Pest_ICAL5 @ 10ppb	1J27703-CAL5	005F0501.D	09/30/11 07:25
11I0869	Pest_ICAL5 @ 10ppb	1J27703-CAL5	005R0501.D	09/30/11 07:25
11I0839	Pest_ICAL4@25ppb	1J27703-CAL4	006R0601.D	09/30/11 07:44
11I0839	Pest_ICAL4@25ppb	1J27703-CAL4	006F0601.D	09/30/11 07:44
11I0840	Pest_ICAL3@50ppb	1J27703-CAL3	007F0701.D	09/30/11 08:02
11I0840	Pest_ICAL3@50ppb	1J27703-CAL3	007R0701.D	09/30/11 08:02
11I0841	Pest. ICAL2 @ 100ppb	1J27703-CAL2	008R0801.D	09/30/11 08:21
11I0841	Pest. ICAL2 @ 100ppb	1J27703-CAL2	008F0801.D	09/30/11 08:21
11I0842	Pest_ICAL1@200ppb	1J27703-CAL1	009R0901.D	09/30/11 08:40
11I0842	Pest_ICAL1@200ppb	1J27703-CAL1	009F0901.D	09/30/11 08:40
11I0878	Pest_ICAL7 @ 1ppb	1J27703-CAL7	015F1501.D	09/30/11 11:18
11I0878	Pest_ICAL7 @ 1ppb	1J27703-CAL7	015R1501.D	09/30/11 11:18

INITIAL CALIBRATION STANDARDS

SW8082A

Laboratory:	Empirical Laboratories, LLC	SDG:	1109191
Client:	Tetra Tech NUS, Inc. (T010)	Project:	Navy Fuel Depot CTO JM46
Sequence:	1J28607	Instrument:	GL-ECD3
Calibration:	1286006		

Standard ID	Description	Lab Sample ID	Lab File ID	Analysis Date/Time
11J0019	Aro-1660 Cal6@50/2.5	1J28607-CAL6	022R2201.D	10/10/11 17:52
11J0019	Aro-1660 Cal6@50/2.5	1J28607-CAL6	022F2201.D	10/10/11 17:52
11J0018	Aro-1660 Cal5@100/5	1J28607-CAL5	023F2301.D	10/10/11 18:11
11J0018	Aro-1660 Cal5@100/5	1J28607-CAL5	023R2301.D	10/10/11 18:11
11J0017	Aro-1660 Cal4@500/25	1J28607-CAL4	024F2401.D	10/10/11 18:29
11J0017	Aro-1660 Cal4@500/25	1J28607-CAL4	024R2401.D	10/10/11 18:29
11J0016	Aro-1660 Cal3@750/37.5	1J28607-CAL3	025R2501.D	10/10/11 18:48
11J0016	Aro-1660 Cal3@750/37.5	1J28607-CAL3	025F2501.D	10/10/11 18:48
11J0015	Aro-1660 Cal2@1000/50 (CCV)	1J28607-CAL2	026R2601.D	10/10/11 19:07
11J0015	Aro-1660 Cal2@1000/50 (CCV)	1J28607-CAL2	026F2601.D	10/10/11 19:07
11J0014	Aro-1660 Cal1@2500/125	1J28607-CAL1	027R2701.D	10/10/11 19:26
11J0014	Aro-1660 Cal1@2500/125	1J28607-CAL1	027F2701.D	10/10/11 19:26
11J0045	Aroclor-1254 CAL 6 (50 ppb)	1J28607-CAL7	029R2901.D	10/10/11 20:03
11J0045	Aroclor-1254 CAL 6 (50 ppb)	1J28607-CAL7	029F2901.D	10/10/11 20:03
11J0044	Aroclor-1254 CAL 5 (100 ppb)	1J28607-CAL8	030F3001.D	10/10/11 20:22
11J0044	Aroclor-1254 CAL 5 (100 ppb)	1J28607-CAL8	030R3001.D	10/10/11 20:22
11J0043	Aroclor-1254 CAL 4 (500 ppb)	1J28607-CAL9	031F3101.D	10/10/11 20:41
11J0043	Aroclor-1254 CAL 4 (500 ppb)	1J28607-CAL9	031R3101.D	10/10/11 20:41
11J0042	Aroclor-1254 CAL 3 (750 ppb)	1J28607-CALA	032F3201.D	10/10/11 21:00
11J0042	Aroclor-1254 CAL 3 (750 ppb)	1J28607-CALA	032R3201.D	10/10/11 21:00
11J0041	Aroclor-1254 CCV 1000ppb	1J28607-CALB	033F3301.D	10/10/11 21:19
11J0041	Aroclor-1254 CCV 1000ppb	1J28607-CALB	033R3301.D	10/10/11 21:19
11J0040	Aroclor-1254 CAL 1 (2500 ppb)	1J28607-CALC	034R3401.D	10/10/11 21:37
11J0040	Aroclor-1254 CAL 1 (2500 ppb)	1J28607-CALC	034F3401.D	10/10/11 21:37

INITIAL CALIBRATION DATA

SW8082A

Laboratory:	Empirical Laboratories, LLC	SDG:	1109191
Client:	Tetra Tech NUS, Inc. (T010)	Project:	Navy Fuel Depot CTO JM46
Calibration:	1275001	Instrument:	GL-ECD3
Matrix:	Water	Calibration Dates:	8/25/10 3:32 9/28/11 11:24

Compound	Level 01		Level 02		Level 03		Level 04		Level 05		Level 06	
	ug/L	RF	ug/L	RF	ug/L	RF	ug/L	RF	ug/L	RF	ug/L	RF
Aroclor-1016												
Aroclor-1016 (1)												
Aroclor-1016 (2)												
Aroclor-1016 (3)												
Aroclor-1016 (4)												
Aroclor-1016 (5)												
Aroclor-1016 [2C]												
Aroclor-1016 (1) [2C]												
Aroclor-1016 (2) [2C]												
Aroclor-1016 (3) [2C]												
Aroclor-1016 (4) [2C]												
Aroclor-1016 (5) [2C]												
Aroclor-1221												
Aroclor-1221 (1)												
Aroclor-1221 (2)												
Aroclor-1221 (3)												
Aroclor-1221 (4)												
Aroclor-1221 (5)												
Aroclor-1221 [2C]												
Aroclor-1221 (1) [2C]												
Aroclor-1221 (2) [2C]												
Aroclor-1221 (3) [2C]												
Aroclor-1221 (4) [2C]												
Aroclor-1221 (5) [2C]												
Aroclor-1242												
Aroclor-1242 (1)												
Aroclor-1242 (2)												
Aroclor-1242 (3)												
Aroclor-1242 (4)												
Aroclor-1242 (5)												
Aroclor-1242 [2C]												

INITIAL CALIBRATION DATA

SW8082A

Laboratory:	Empirical Laboratories, LLC	SDG:	1109191
Client:	Tetra Tech NUS, Inc. (T010)	Project:	Navy Fuel Depot CTO JM46
Calibration:	1275001	Instrument:	GL-ECD3
Matrix:	Water	Calibration Dates:	8/25/10 3:32 9/28/11 11:24

Compound	Level 01		Level 02		Level 03		Level 04		Level 05		Level 06	
	ug/L	RF	ug/L	RF	ug/L	RF	ug/L	RF	ug/L	RF	ug/L	RF
Aroclor-1242 (1) [2C]												
Aroclor-1242 (2) [2C]												
Aroclor-1242 (3) [2C]												
Aroclor-1242 (4) [2C]												
Aroclor-1242 (5) [2C]												
Aroclor-1254												
Aroclor-1254 (1)												
Aroclor-1254 (2)												
Aroclor-1254 (3)												
Aroclor-1254 (4)												
Aroclor-1254 (5)												
Aroclor-1254 [2C]												
Aroclor-1254 (1) [2C]												
Aroclor-1254 (2) [2C]												
Aroclor-1254 (3) [2C]												
Aroclor-1254 (4) [2C]												
Aroclor-1254 (5) [2C]												
Aroclor-1260												
Aroclor-1260 (1)												
Aroclor-1260 (2)												
Aroclor-1260 (3)												
Aroclor-1260 (4)												
Aroclor-1260 (5)												
Aroclor-1260 [2C]												
Aroclor-1260 (1) [2C]												
Aroclor-1260 (2) [2C]												
Aroclor-1260 (3) [2C]												
Aroclor-1260 (4) [2C]												
Aroclor-1260 (5) [2C]												
Aroclor-1262 (1)												
Aroclor-1262 (2)												

INITIAL CALIBRATION DATA

SW8082A

Laboratory:	Empirical Laboratories, LLC	SDG:	1109191
Client:	Tetra Tech NUS, Inc. (T010)	Project:	Navy Fuel Depot CTO JM46
Calibration:	1275001	Instrument:	GL-ECD3
Matrix:	Water	Calibration Dates:	8/25/10 3:32 9/28/11 11:24

Compound	Level 01		Level 02		Level 03		Level 04		Level 05		Level 06	
	ug/L	RF	ug/L	RF	ug/L	RF	ug/L	RF	ug/L	RF	ug/L	RF
Aroclor-1262 (3)												
Aroclor-1262 (4)												
Aroclor-1262 (5)												
Aroclor-1262 (1) [2C]												
Aroclor-1262 (2) [2C]												
Aroclor-1262 (3) [2C]												
Aroclor-1262 (4) [2C]												
Aroclor-1262 (5) [2C]												
Aroclor-1268												
Aroclor-1268 (1)												
Aroclor-1268 (2)												
Aroclor-1268 (3)												
Aroclor-1268 (4)												
Aroclor-1268 (5)												
Aroclor-1268 [2C]												
Aroclor-1268 (1) [2C]												
Aroclor-1268 (2) [2C]												
Aroclor-1268 (3) [2C]												
Aroclor-1268 (4) [2C]												
Aroclor-1268 (5) [2C]												
Tetrachloro-m-xylene	200	34983.55	100	36633.47	50	35458.04	25	36130.36	10	36159.1	5	36147.2
Tetrachloro-m-xylene [2C]	200	30295.29	100	33504.19	50	34038.82	25	35809.6	10	36968.3	5	38091.2
Decachlorobiphenyl	200	32423.61	100	35118.66	50	34124.8	25	35301.2	10	36827.5	5	38833.8
Decachlorobiphenyl [2C]	200	24280.74	100	27359.16	50	27218.74	25	28314.56	10	29777.4	5	32169
Aroclor-1016												
Aroclor-1016 (1)												
Aroclor-1016 (2)												
Aroclor-1016 (3)												
Aroclor-1016 (4)												
Aroclor-1016 (5)												
Aroclor-1016 [2C]												

INITIAL CALIBRATION DATA

SW8082A

Laboratory:	Empirical Laboratories, LLC	SDG:	1109191
Client:	Tetra Tech NUS, Inc. (T010)	Project:	Navy Fuel Depot CTO JM46
Calibration:	1275001	Instrument:	GL-ECD3
Matrix:	Water	Calibration Dates:	8/25/10 3:32 9/28/11 11:24

Compound	Level 01		Level 02		Level 03		Level 04		Level 05		Level 06	
	ug/L	RF	ug/L	RF	ug/L	RF	ug/L	RF	ug/L	RF	ug/L	RF
Aroclor-1016 (1) [2C]												
Aroclor-1016 (2) [2C]												
Aroclor-1016 (3) [2C]												
Aroclor-1016 (4) [2C]												
Aroclor-1016 (5) [2C]												
Aroclor-1221												
Aroclor-1221 (1)												
Aroclor-1221 (2)												
Aroclor-1221 (3)												
Aroclor-1221 (4)												
Aroclor-1221 (5)												
Aroclor-1221 [2C]												
Aroclor-1221 (1) [2C]												
Aroclor-1221 (2) [2C]												
Aroclor-1221 (3) [2C]												
Aroclor-1221 (4) [2C]												
Aroclor-1221 (5) [2C]												
Aroclor-1242												
Aroclor-1242 (1)												
Aroclor-1242 (2)												
Aroclor-1242 (3)												
Aroclor-1242 (4)												
Aroclor-1242 (5)												
Aroclor-1242 [2C]												
Aroclor-1242 (1) [2C]												
Aroclor-1242 (2) [2C]												
Aroclor-1242 (3) [2C]												
Aroclor-1242 (4) [2C]												
Aroclor-1242 (5) [2C]												
Aroclor-1254												
Aroclor-1254 (1)												

INITIAL CALIBRATION DATA

SW8082A

Laboratory:	Empirical Laboratories, LLC	SDG:	1109191
Client:	Tetra Tech NUS, Inc. (T010)	Project:	Navy Fuel Depot CTO JM46
Calibration:	1275001	Instrument:	GL-ECD3
Matrix:	Water	Calibration Dates:	8/25/10 3:32 9/28/11 11:24

Compound	Level 01		Level 02		Level 03		Level 04		Level 05		Level 06	
	ug/L	RF	ug/L	RF	ug/L	RF	ug/L	RF	ug/L	RF	ug/L	RF
Aroclor-1254 (2)												
Aroclor-1254 (3)												
Aroclor-1254 (4)												
Aroclor-1254 (5)												
Aroclor-1254 [2C]												
Aroclor-1254 (1) [2C]												
Aroclor-1254 (2) [2C]												
Aroclor-1254 (3) [2C]												
Aroclor-1254 (4) [2C]												
Aroclor-1254 (5) [2C]												
Aroclor-1260												
Aroclor-1260 (1)												
Aroclor-1260 (2)												
Aroclor-1260 (3)												
Aroclor-1260 (4)												
Aroclor-1260 (5)												
Aroclor-1260 [2C]												
Aroclor-1260 (1) [2C]												
Aroclor-1260 (2) [2C]												
Aroclor-1260 (3) [2C]												
Aroclor-1260 (4) [2C]												
Aroclor-1260 (5) [2C]												
Aroclor-1268												
Aroclor-1268 (1)												
Aroclor-1268 (2)												
Aroclor-1268 (3)												
Aroclor-1268 (4)												
Aroclor-1268 (5)												
Aroclor-1268 [2C]												
Aroclor-1268 (1) [2C]												
Aroclor-1268 (2) [2C]												

INITIAL CALIBRATION DATA

SW8082A

Laboratory:	Empirical Laboratories, LLC	SDG:	1109191
Client:	Tetra Tech NUS, Inc. (T010)	Project:	Navy Fuel Depot CTO JM46
Calibration:	1275001	Instrument:	GL-ECD3
Matrix:	Water	Calibration Dates:	8/25/10 3:32 9/28/11 11:24

Compound	Level 01		Level 02		Level 03		Level 04		Level 05		Level 06	
	ug/L	RF	ug/L	RF	ug/L	RF	ug/L	RF	ug/L	RF	ug/L	RF
Aroclor-1268 (3) [2C]												
Aroclor-1268 (4) [2C]												
Aroclor-1268 (5) [2C]												
Tetrachloro-m-xylene	200	34983.55	100	36633.47	50	35458.04	25	36130.36	10	36159.1	5	36147.2
Tetrachloro-m-xylene [2C]	200	30295.29	100	33504.19	50	34038.82	25	35809.6	10	36968.3	5	38091.2
Decachlorobiphenyl	200	32423.61	100	35118.66	50	34124.8	25	35301.2	10	36827.5	5	38833.8
Decachlorobiphenyl [2C]	200	24280.74	100	27359.16	50	27218.74	25	28314.56	10	29777.4	5	32169

INITIAL CALIBRATION DATA (Continued)

SW8082A

Laboratory:	Empirical Laboratories, LLC	SDG:	1109191
Client:	Tetra Tech NUS, Inc. (T010)	Project:	Navy Fuel Depot CTO JM46
Calibration:	1275001	Instrument:	GL-ECD3
Matrix:	Water	Calibration Dates:	8/25/10 3:32 9/28/11 11:24

Compound	Level 07		Level 08		Level 09		Level 10		Level 11		Level 12	
	ug/L	RF	ug/L	RF	ug/L	RF	ug/L	RF	ug/L	RF	ug/L	RF
Aroclor-1016												
Aroclor-1016 (1)												
Aroclor-1016 (2)												
Aroclor-1016 (3)												
Aroclor-1016 (4)												
Aroclor-1016 (5)												
Aroclor-1016 [2C]												
Aroclor-1016 (1) [2C]												
Aroclor-1016 (2) [2C]												
Aroclor-1016 (3) [2C]												
Aroclor-1016 (4) [2C]												
Aroclor-1016 (5) [2C]												
Aroclor-1221												
Aroclor-1221 (1)												
Aroclor-1221 (2)												
Aroclor-1221 (3)												
Aroclor-1221 (4)												
Aroclor-1221 (5)												
Aroclor-1221 [2C]												
Aroclor-1221 (1) [2C]												
Aroclor-1221 (2) [2C]												
Aroclor-1221 (3) [2C]												
Aroclor-1221 (4) [2C]												
Aroclor-1221 (5) [2C]												
Aroclor-1242												
Aroclor-1242 (1)												
Aroclor-1242 (2)												
Aroclor-1242 (3)												
Aroclor-1242 (4)												
Aroclor-1242 (5)												
Aroclor-1242 [2C]												

INITIAL CALIBRATION DATA (Continued)

SW8082A

Laboratory:	Empirical Laboratories, LLC	SDG:	1109191
Client:	Tetra Tech NUS, Inc. (T010)	Project:	Navy Fuel Depot CTO JM46
Calibration:	1275001	Instrument:	GL-ECD3
Matrix:	Water	Calibration Dates:	8/25/10 3:32 9/28/11 11:24

Compound	Level 07		Level 08		Level 09		Level 10		Level 11		Level 12	
	ug/L	RF	ug/L	RF	ug/L	RF	ug/L	RF	ug/L	RF	ug/L	RF
Aroclor-1242 (1) [2C]												
Aroclor-1242 (2) [2C]												
Aroclor-1242 (3) [2C]												
Aroclor-1242 (4) [2C]												
Aroclor-1242 (5) [2C]												
Aroclor-1254												
Aroclor-1254 (1)												
Aroclor-1254 (2)												
Aroclor-1254 (3)												
Aroclor-1254 (4)												
Aroclor-1254 (5)												
Aroclor-1254 [2C]												
Aroclor-1254 (1) [2C]												
Aroclor-1254 (2) [2C]												
Aroclor-1254 (3) [2C]												
Aroclor-1254 (4) [2C]												
Aroclor-1254 (5) [2C]												
Aroclor-1260												
Aroclor-1260 (1)												
Aroclor-1260 (2)												
Aroclor-1260 (3)												
Aroclor-1260 (4)												
Aroclor-1260 (5)												
Aroclor-1260 [2C]												
Aroclor-1260 (1) [2C]												
Aroclor-1260 (2) [2C]												
Aroclor-1260 (3) [2C]												
Aroclor-1260 (4) [2C]												
Aroclor-1260 (5) [2C]												
Aroclor-1262 (1)												
Aroclor-1262 (2)												

INITIAL CALIBRATION DATA (Continued)

SW8082A

Laboratory:	Empirical Laboratories, LLC	SDG:	1109191
Client:	Tetra Tech NUS, Inc. (T010)	Project:	Navy Fuel Depot CTO JM46
Calibration:	1275001	Instrument:	GL-ECD3
Matrix:	Water	Calibration Dates:	8/25/10 3:32 9/28/11 11:24

Compound	Level 07		Level 08		Level 09		Level 10		Level 11		Level 12	
	ug/L	RF	ug/L	RF	ug/L	RF	ug/L	RF	ug/L	RF	ug/L	RF
Aroclor-1262 (3)												
Aroclor-1262 (4)												
Aroclor-1262 (5)												
Aroclor-1262 (1) [2C]												
Aroclor-1262 (2) [2C]												
Aroclor-1262 (3) [2C]												
Aroclor-1262 (4) [2C]												
Aroclor-1262 (5) [2C]												
Aroclor-1268												
Aroclor-1268 (1)												
Aroclor-1268 (2)												
Aroclor-1268 (3)												
Aroclor-1268 (4)												
Aroclor-1268 (5)												
Aroclor-1268 [2C]												
Aroclor-1268 (1) [2C]												
Aroclor-1268 (2) [2C]												
Aroclor-1268 (3) [2C]												
Aroclor-1268 (4) [2C]												
Aroclor-1268 (5) [2C]												
Tetrachloro-m-xylene	1	34294										
Tetrachloro-m-xylene [2C]	1	37342										
Decachlorobiphenyl	1	41675										
Decachlorobiphenyl [2C]	1	35761										
Aroclor-1016												
Aroclor-1016 (1)												
Aroclor-1016 (2)												
Aroclor-1016 (3)												
Aroclor-1016 (4)												
Aroclor-1016 (5)												
Aroclor-1016 [2C]												

INITIAL CALIBRATION DATA (Continued)

SW8082A

Laboratory:	Empirical Laboratories, LLC	SDG:	1109191
Client:	Tetra Tech NUS, Inc. (T010)	Project:	Navy Fuel Depot CTO JM46
Calibration:	1275001	Instrument:	GL-ECD3
Matrix:	Water	Calibration Dates:	8/25/10 3:32 9/28/11 11:24

Compound	Level 07		Level 08		Level 09		Level 10		Level 11		Level 12	
	ug/L	RF	ug/L	RF	ug/L	RF	ug/L	RF	ug/L	RF	ug/L	RF
Aroclor-1016 (1) [2C]												
Aroclor-1016 (2) [2C]												
Aroclor-1016 (3) [2C]												
Aroclor-1016 (4) [2C]												
Aroclor-1016 (5) [2C]												
Aroclor-1221												
Aroclor-1221 (1)												
Aroclor-1221 (2)												
Aroclor-1221 (3)												
Aroclor-1221 (4)												
Aroclor-1221 (5)												
Aroclor-1221 [2C]												
Aroclor-1221 (1) [2C]												
Aroclor-1221 (2) [2C]												
Aroclor-1221 (3) [2C]												
Aroclor-1221 (4) [2C]												
Aroclor-1221 (5) [2C]												
Aroclor-1242												
Aroclor-1242 (1)												
Aroclor-1242 (2)												
Aroclor-1242 (3)												
Aroclor-1242 (4)												
Aroclor-1242 (5)												
Aroclor-1242 [2C]												
Aroclor-1242 (1) [2C]												
Aroclor-1242 (2) [2C]												
Aroclor-1242 (3) [2C]												
Aroclor-1242 (4) [2C]												
Aroclor-1242 (5) [2C]												
Aroclor-1254												
Aroclor-1254 (1)												

INITIAL CALIBRATION DATA (Continued)

SW8082A

Laboratory:	Empirical Laboratories, LLC	SDG:	1109191
Client:	Tetra Tech NUS, Inc. (T010)	Project:	Navy Fuel Depot CTO JM46
Calibration:	1275001	Instrument:	GL-ECD3
Matrix:	Water	Calibration Dates:	8/25/10 3:32 9/28/11 11:24

Compound	Level 07		Level 08		Level 09		Level 10		Level 11		Level 12	
	ug/L	RF	ug/L	RF	ug/L	RF	ug/L	RF	ug/L	RF	ug/L	RF
Aroclor-1254 (2)												
Aroclor-1254 (3)												
Aroclor-1254 (4)												
Aroclor-1254 (5)												
Aroclor-1254 [2C]												
Aroclor-1254 (1) [2C]												
Aroclor-1254 (2) [2C]												
Aroclor-1254 (3) [2C]												
Aroclor-1254 (4) [2C]												
Aroclor-1254 (5) [2C]												
Aroclor-1260												
Aroclor-1260 (1)												
Aroclor-1260 (2)												
Aroclor-1260 (3)												
Aroclor-1260 (4)												
Aroclor-1260 (5)												
Aroclor-1260 [2C]												
Aroclor-1260 (1) [2C]												
Aroclor-1260 (2) [2C]												
Aroclor-1260 (3) [2C]												
Aroclor-1260 (4) [2C]												
Aroclor-1260 (5) [2C]												
Aroclor-1268												
Aroclor-1268 (1)												
Aroclor-1268 (2)												
Aroclor-1268 (3)												
Aroclor-1268 (4)												
Aroclor-1268 (5)												
Aroclor-1268 [2C]												
Aroclor-1268 (1) [2C]												
Aroclor-1268 (2) [2C]												

INITIAL CALIBRATION DATA (Continued)

SW8082A

Laboratory:	Empirical Laboratories, LLC	SDG:	1109191
Client:	Tetra Tech NUS, Inc. (T010)	Project:	Navy Fuel Depot CTO JM46
Calibration:	1275001	Instrument:	GL-ECD3
Matrix:	Water	Calibration Dates:	8/25/10 3:32 9/28/11 11:24

Compound	Level 07		Level 08		Level 09		Level 10		Level 11		Level 12	
	ug/L	RF	ug/L	RF	ug/L	RF	ug/L	RF	ug/L	RF	ug/L	RF
Aroclor-1268 (3) [2C]												
Aroclor-1268 (4) [2C]												
Aroclor-1268 (5) [2C]												
Tetrachloro-m-xylene	1	34294										
Tetrachloro-m-xylene [2C]	1	37342										
Decachlorobiphenyl	1	41675										
Decachlorobiphenyl [2C]	1	35761										

INITIAL CALIBRATION DATA (Continued)

SW8082A

Laboratory:	Empirical Laboratories, LLC	SDG:	1109191
Client:	Tetra Tech NUS, Inc. (T010)	Project:	Navy Fuel Depot CTO JM46
Calibration:	1275001	Instrument:	GL-ECD3
Matrix:	Water	Calibration Dates:	8/25/10 3:32 9/28/11 11:24

Compound	Level 13		Level 14		Level 15		Level 16		Level 17		Level 18	
	ug/L	RF	ug/L	RF	ug/L	RF	ug/L	RF	ug/L	RF	ug/L	RF
Aroclor-1016												
Aroclor-1016 (1)												
Aroclor-1016 (2)												
Aroclor-1016 (3)												
Aroclor-1016 (4)												
Aroclor-1016 (5)												
Aroclor-1016 [2C]												
Aroclor-1016 (1) [2C]												
Aroclor-1016 (2) [2C]												
Aroclor-1016 (3) [2C]												
Aroclor-1016 (4) [2C]												
Aroclor-1016 (5) [2C]												
Aroclor-1221												
Aroclor-1221 (1)												
Aroclor-1221 (2)												
Aroclor-1221 (3)												
Aroclor-1221 (4)												
Aroclor-1221 (5)												
Aroclor-1221 [2C]												
Aroclor-1221 (1) [2C]												
Aroclor-1221 (2) [2C]												
Aroclor-1221 (3) [2C]												
Aroclor-1221 (4) [2C]												
Aroclor-1221 (5) [2C]												
Aroclor-1242												
Aroclor-1242 (1)												
Aroclor-1242 (2)												
Aroclor-1242 (3)												
Aroclor-1242 (4)												
Aroclor-1242 (5)												
Aroclor-1242 [2C]												

INITIAL CALIBRATION DATA (Continued)

SW8082A

Laboratory:	Empirical Laboratories, LLC	SDG:	1109191
Client:	Tetra Tech NUS, Inc. (T010)	Project:	Navy Fuel Depot CTO JM46
Calibration:	1275001	Instrument:	GL-ECD3
Matrix:	Water	Calibration Dates:	8/25/10 3:32 9/28/11 11:24

Compound	Level 13		Level 14		Level 15		Level 16		Level 17		Level 18	
	ug/L	RF	ug/L	RF	ug/L	RF	ug/L	RF	ug/L	RF	ug/L	RF
Aroclor-1242 (1) [2C]												
Aroclor-1242 (2) [2C]												
Aroclor-1242 (3) [2C]												
Aroclor-1242 (4) [2C]												
Aroclor-1242 (5) [2C]												
Aroclor-1254												
Aroclor-1254 (1)												
Aroclor-1254 (2)												
Aroclor-1254 (3)												
Aroclor-1254 (4)												
Aroclor-1254 (5)												
Aroclor-1254 [2C]												
Aroclor-1254 (1) [2C]												
Aroclor-1254 (2) [2C]												
Aroclor-1254 (3) [2C]												
Aroclor-1254 (4) [2C]												
Aroclor-1254 (5) [2C]												
Aroclor-1260												
Aroclor-1260 (1)												
Aroclor-1260 (2)												
Aroclor-1260 (3)												
Aroclor-1260 (4)												
Aroclor-1260 (5)												
Aroclor-1260 [2C]												
Aroclor-1260 (1) [2C]												
Aroclor-1260 (2) [2C]												
Aroclor-1260 (3) [2C]												
Aroclor-1260 (4) [2C]												
Aroclor-1260 (5) [2C]												
Aroclor-1262 (1)												
Aroclor-1262 (2)												

INITIAL CALIBRATION DATA (Continued)

SW8082A

Laboratory:	Empirical Laboratories, LLC	SDG:	1109191
Client:	Tetra Tech NUS, Inc. (T010)	Project:	Navy Fuel Depot CTO JM46
Calibration:	1275001	Instrument:	GL-ECD3
Matrix:	Water	Calibration Dates:	8/25/10 3:32 9/28/11 11:24

Compound	Level 13		Level 14		Level 15		Level 16		Level 17		Level 18	
	ug/L	RF	ug/L	RF	ug/L	RF	ug/L	RF	ug/L	RF	ug/L	RF
Aroclor-1262 (3)												
Aroclor-1262 (4)												
Aroclor-1262 (5)												
Aroclor-1262 (1) [2C]												
Aroclor-1262 (2) [2C]												
Aroclor-1262 (3) [2C]												
Aroclor-1262 (4) [2C]												
Aroclor-1262 (5) [2C]												
Aroclor-1268												
Aroclor-1268 (1)												
Aroclor-1268 (2)												
Aroclor-1268 (3)												
Aroclor-1268 (4)												
Aroclor-1268 (5)												
Aroclor-1268 [2C]												
Aroclor-1268 (1) [2C]												
Aroclor-1268 (2) [2C]												
Aroclor-1268 (3) [2C]												
Aroclor-1268 (4) [2C]												
Aroclor-1268 (5) [2C]												
Tetrachloro-m-xylene												
Tetrachloro-m-xylene [2C]												
Decachlorobiphenyl												
Decachlorobiphenyl [2C]												
Aroclor-1016												
Aroclor-1016 (1)												
Aroclor-1016 (2)												
Aroclor-1016 (3)												
Aroclor-1016 (4)												
Aroclor-1016 (5)												
Aroclor-1016 [2C]												

INITIAL CALIBRATION DATA (Continued)

SW8082A

Laboratory:	Empirical Laboratories, LLC	SDG:	1109191
Client:	Tetra Tech NUS, Inc. (T010)	Project:	Navy Fuel Depot CTO JM46
Calibration:	1275001	Instrument:	GL-ECD3
Matrix:	Water	Calibration Dates:	8/25/10 3:32 9/28/11 11:24

Compound	Level 13		Level 14		Level 15		Level 16		Level 17		Level 18	
	ug/L	RF	ug/L	RF	ug/L	RF	ug/L	RF	ug/L	RF	ug/L	RF
Aroclor-1016 (1) [2C]												
Aroclor-1016 (2) [2C]												
Aroclor-1016 (3) [2C]												
Aroclor-1016 (4) [2C]												
Aroclor-1016 (5) [2C]												
Aroclor-1221												
Aroclor-1221 (1)												
Aroclor-1221 (2)												
Aroclor-1221 (3)												
Aroclor-1221 (4)												
Aroclor-1221 (5)												
Aroclor-1221 [2C]												
Aroclor-1221 (1) [2C]												
Aroclor-1221 (2) [2C]												
Aroclor-1221 (3) [2C]												
Aroclor-1221 (4) [2C]												
Aroclor-1221 (5) [2C]												
Aroclor-1242												
Aroclor-1242 (1)												
Aroclor-1242 (2)												
Aroclor-1242 (3)												
Aroclor-1242 (4)												
Aroclor-1242 (5)												
Aroclor-1242 [2C]												
Aroclor-1242 (1) [2C]												
Aroclor-1242 (2) [2C]												
Aroclor-1242 (3) [2C]												
Aroclor-1242 (4) [2C]												
Aroclor-1242 (5) [2C]												
Aroclor-1254												
Aroclor-1254 (1)												

INITIAL CALIBRATION DATA (Continued)

SW8082A

Laboratory:	Empirical Laboratories, LLC	SDG:	1109191	
Client:	Tetra Tech NUS, Inc. (T010)	Project:	Navy Fuel Depot CTO JM46	
Calibration:	1275001	Instrument:	GL-ECD3	
Matrix:	Water	Calibration Dates:	8/25/10 3:32	9/28/11 11:24

Compound	Level 13		Level 14		Level 15		Level 16		Level 17		Level 18	
	ug/L	RF	ug/L	RF	ug/L	RF	ug/L	RF	ug/L	RF	ug/L	RF
Aroclor-1254 (2)												
Aroclor-1254 (3)												
Aroclor-1254 (4)												
Aroclor-1254 (5)												
Aroclor-1254 [2C]												
Aroclor-1254 (1) [2C]												
Aroclor-1254 (2) [2C]												
Aroclor-1254 (3) [2C]												
Aroclor-1254 (4) [2C]												
Aroclor-1254 (5) [2C]												
Aroclor-1260												
Aroclor-1260 (1)												
Aroclor-1260 (2)												
Aroclor-1260 (3)												
Aroclor-1260 (4)												
Aroclor-1260 (5)												
Aroclor-1260 [2C]												
Aroclor-1260 (1) [2C]												
Aroclor-1260 (2) [2C]												
Aroclor-1260 (3) [2C]												
Aroclor-1260 (4) [2C]												
Aroclor-1260 (5) [2C]												
Aroclor-1268												
Aroclor-1268 (1)												
Aroclor-1268 (2)												
Aroclor-1268 (3)												
Aroclor-1268 (4)												
Aroclor-1268 (5)												
Aroclor-1268 [2C]												
Aroclor-1268 (1) [2C]												
Aroclor-1268 (2) [2C]												

INITIAL CALIBRATION DATA (Continued)

SW8082A

Laboratory:	Empirical Laboratories, LLC	SDG:	1109191
Client:	Tetra Tech NUS, Inc. (T010)	Project:	Navy Fuel Depot CTO JM46
Calibration:	1275001	Instrument:	GL-ECD3
Matrix:	Water	Calibration Dates:	8/25/10 3:32 9/28/11 11:24

Compound	Level 13		Level 14		Level 15		Level 16		Level 17		Level 18	
	ug/L	RF	ug/L	RF	ug/L	RF	ug/L	RF	ug/L	RF	ug/L	RF
Aroclor-1268 (3) [2C]												
Aroclor-1268 (4) [2C]												
Aroclor-1268 (5) [2C]												
Tetrachloro-m-xylene												
Tetrachloro-m-xylene [2C]												
Decachlorobiphenyl												
Decachlorobiphenyl [2C]												

INITIAL CALIBRATION DATA (Continued)

SW8082A

Laboratory:	Empirical Laboratories, LLC	SDG:	1109191
Client:	Tetra Tech NUS, Inc. (T010)	Project:	Navy Fuel Depot CTO JM46
Calibration:	1275001	Instrument:	GL-ECD3
Matrix:	Water	Calibration Dates:	8/25/10 3:32 9/28/11 11:24

Compound	Level 19		Level 20		Level 21		Level 22		Level 23		Level 24	
	ug/L	RF	ug/L	RF	ug/L	RF	ug/L	RF	ug/L	RF	ug/L	RF
Aroclor-1016			2500	860.6652	1000	875.372	750	908.7672	500	829.4572	100	1135.448
Aroclor-1016 (1)			2500	1375.678	1000	1408.098	750	1461.193	500	1385.924	100	2268.24
Aroclor-1016 (2)			2500	665.7848	1000	679.648	750	705.5933	500	641.482	100	777.04
Aroclor-1016 (3)			2500	653.702	1000	666.611	750	695.4987	500	622.586	100	788.29
Aroclor-1016 (4)			2500	954.1548	1000	965.136	750	1008.304	500	891.156	100	1107.21
Aroclor-1016 (5)			2500	654.006	1000	657.367	750	673.2466	500	606.138	100	736.46
Aroclor-1016 [2C]			2500	637.8428	1000	680.1046	750	708.3155	500	655.5008	100	820.662
Aroclor-1016 (1) [2C]			2500	889.7404	1000	983.591	750	1040.328	500	922.628	100	1205.4
Aroclor-1016 (2) [2C]			2500	509.9408	1000	541.603	750	561.4106	500	519.366	100	641.95
Aroclor-1016 (3) [2C]			2500	747.9536	1000	769.929	750	791.5814	500	774.622	100	942.39
Aroclor-1016 (4) [2C]			2500	506.4076	1000	543.243	750	564.46	500	519.338	100	633.1
Aroclor-1016 (5) [2C]			2500	535.1712	1000	562.157	750	583.7974	500	541.55	100	680.47
Aroclor-1221												
Aroclor-1221 (1)												
Aroclor-1221 (2)												
Aroclor-1221 (3)												
Aroclor-1221 (4)												
Aroclor-1221 (5)												
Aroclor-1221 [2C]												
Aroclor-1221 (1) [2C]												
Aroclor-1221 (2) [2C]												
Aroclor-1221 (3) [2C]												
Aroclor-1221 (4) [2C]												
Aroclor-1221 (5) [2C]												
Aroclor-1242												
Aroclor-1242 (1)												
Aroclor-1242 (2)												
Aroclor-1242 (3)												
Aroclor-1242 (4)												
Aroclor-1242 (5)												
Aroclor-1242 [2C]												

INITIAL CALIBRATION DATA (Continued)

SW8082A

Laboratory: Empirical Laboratories, LLC
SDG: 1109191
Client: Tetra Tech NUS, Inc. (T010)
Project: Navy Fuel Depot CTO JM46
Calibration: 1275001
Instrument: GL-ECD3
Matrix: Water
Calibration Dates: 8/25/10 3:32 9/28/11 11:24

Compound	Level 19		Level 20		Level 21		Level 22		Level 23		Level 24	
	ug/L	RF	ug/L	RF	ug/L	RF	ug/L	RF	ug/L	RF	ug/L	RF
Aroclor-1242 (1) [2C]												
Aroclor-1242 (2) [2C]												
Aroclor-1242 (3) [2C]												
Aroclor-1242 (4) [2C]												
Aroclor-1242 (5) [2C]												
Aroclor-1254												
Aroclor-1254 (1)												
Aroclor-1254 (2)												
Aroclor-1254 (3)												
Aroclor-1254 (4)												
Aroclor-1254 (5)												
Aroclor-1254 [2C]												
Aroclor-1254 (1) [2C]												
Aroclor-1254 (2) [2C]												
Aroclor-1254 (3) [2C]												
Aroclor-1254 (4) [2C]												
Aroclor-1254 (5) [2C]												
Aroclor-1260			2500	2082.993	1000	2035.188	750	2046.887	500	1720.375	100	2084.956
Aroclor-1260 (1)			2500	3833.414	1000	3683.304	750	3675.605	500	3082.456	100	3649.22
Aroclor-1260 (2)			2500	1916	1000	1893.477	750	1921.672	500	1659.208	100	2063.82
Aroclor-1260 (3)			2500	2163.115	1000	2124.221	750	2147.044	500	1784.57	100	2154.42
Aroclor-1260 (4)			2500	1514.934	1000	1499.595	750	1518.699	500	1259.214	100	1547.43
Aroclor-1260 (5)			2500	987.5016	1000	975.345	750	971.4133	500	816.428	100	1009.89
Aroclor-1260 [2C]			2500	1522.25	1000	1605.31	750	1650.016	500	1445.249	100	1826.982
Aroclor-1260 (1) [2C]			2500	2457.321	1000	2582.683	750	2639.291	500	2291.97	100	2849.11
Aroclor-1260 (2) [2C]			2500	1367.806	1000	1454.311	750	1503.461	500	1335.036	100	1715.94
Aroclor-1260 (3) [2C]			2500	1278.622	1000	1348.227	750	1393.125	500	1230.484	100	1574.02
Aroclor-1260 (4) [2C]			2500	1442.752	1000	1519.8	750	1565.029	500	1363.782	100	1727.28
Aroclor-1260 (5) [2C]			2500	1064.749	1000	1121.531	750	1149.175	500	1004.972	100	1268.56
Aroclor-1262 (1)												
Aroclor-1262 (2)												

INITIAL CALIBRATION DATA (Continued)

SW8082A

Laboratory: Empirical Laboratories, LLC
SDG: 1109191
Client: Tetra Tech NUS, Inc. (T010)
Project: Navy Fuel Depot CTO JM46
Calibration: 1275001
Instrument: GL-ECD3
Matrix: Water
Calibration Dates: 8/25/10 3:32 9/28/11 11:24

Compound	Level 19		Level 20		Level 21		Level 22		Level 23		Level 24	
	ug/L	RF	ug/L	RF	ug/L	RF	ug/L	RF	ug/L	RF	ug/L	RF
Aroclor-1262 (3)												
Aroclor-1262 (4)												
Aroclor-1262 (5)												
Aroclor-1262 (1) [2C]												
Aroclor-1262 (2) [2C]												
Aroclor-1262 (3) [2C]												
Aroclor-1262 (4) [2C]												
Aroclor-1262 (5) [2C]												
Aroclor-1268												
Aroclor-1268 (1)												
Aroclor-1268 (2)												
Aroclor-1268 (3)												
Aroclor-1268 (4)												
Aroclor-1268 (5)												
Aroclor-1268 [2C]												
Aroclor-1268 (1) [2C]												
Aroclor-1268 (2) [2C]												
Aroclor-1268 (3) [2C]												
Aroclor-1268 (4) [2C]												
Aroclor-1268 (5) [2C]												
Tetrachloro-m-xylene			250		100		75		50		10	
Tetrachloro-m-xylene [2C]			250		100		75		50		10	
Decachlorobiphenyl			250		100		75		50		10	
Decachlorobiphenyl [2C]			250		100		75		50		10	
Aroclor-1016			2500	860.6652	1000	875.372	750	908.7672	500	829.4572	100	1135.448
Aroclor-1016 (1)			2500	1375.678	1000	1408.098	750	1461.193	500	1385.924	100	2268.24
Aroclor-1016 (2)			2500	665.7848	1000	679.648	750	705.5933	500	641.482	100	777.04
Aroclor-1016 (3)			2500	653.702	1000	666.611	750	695.4987	500	622.586	100	788.29
Aroclor-1016 (4)			2500	954.1548	1000	965.136	750	1008.304	500	891.156	100	1107.21
Aroclor-1016 (5)			2500	654.006	1000	657.367	750	673.2466	500	606.138	100	736.46
Aroclor-1016 [2C]			2500	637.8428	1000	680.1046	750	708.3155	500	655.5008	100	820.662

INITIAL CALIBRATION DATA (Continued)

SW8082A

Laboratory:	Empirical Laboratories, LLC	SDG:	1109191
Client:	Tetra Tech NUS, Inc. (T010)	Project:	Navy Fuel Depot CTO JM46
Calibration:	1275001	Instrument:	GL-ECD3
Matrix:	Water	Calibration Dates:	8/25/10 3:32 9/28/11 11:24

Compound	Level 19		Level 20		Level 21		Level 22		Level 23		Level 24	
	ug/L	RF	ug/L	RF	ug/L	RF	ug/L	RF	ug/L	RF	ug/L	RF
Aroclor-1016 (1) [2C]			2500	889.7404	1000	983.591	750	1040.328	500	922.628	100	1205.4
Aroclor-1016 (2) [2C]			2500	509.9408	1000	541.603	750	561.4106	500	519.366	100	641.95
Aroclor-1016 (3) [2C]			2500	747.9536	1000	769.929	750	791.5814	500	774.622	100	942.39
Aroclor-1016 (4) [2C]			2500	506.4076	1000	543.243	750	564.46	500	519.338	100	633.1
Aroclor-1016 (5) [2C]			2500	535.1712	1000	562.157	750	583.7974	500	541.55	100	680.47
Aroclor-1221												
Aroclor-1221 (1)												
Aroclor-1221 (2)												
Aroclor-1221 (3)												
Aroclor-1221 (4)												
Aroclor-1221 (5)												
Aroclor-1221 [2C]												
Aroclor-1221 (1) [2C]												
Aroclor-1221 (2) [2C]												
Aroclor-1221 (3) [2C]												
Aroclor-1221 (4) [2C]												
Aroclor-1221 (5) [2C]												
Aroclor-1242												
Aroclor-1242 (1)												
Aroclor-1242 (2)												
Aroclor-1242 (3)												
Aroclor-1242 (4)												
Aroclor-1242 (5)												
Aroclor-1242 [2C]												
Aroclor-1242 (1) [2C]												
Aroclor-1242 (2) [2C]												
Aroclor-1242 (3) [2C]												
Aroclor-1242 (4) [2C]												
Aroclor-1242 (5) [2C]												
Aroclor-1254												
Aroclor-1254 (1)												

INITIAL CALIBRATION DATA (Continued)

SW8082A

Laboratory:	Empirical Laboratories, LLC	SDG:	1109191
Client:	Tetra Tech NUS, Inc. (T010)	Project:	Navy Fuel Depot CTO JM46
Calibration:	1275001	Instrument:	GL-ECD3
Matrix:	Water	Calibration Dates:	8/25/10 3:32 9/28/11 11:24

Compound	Level 19		Level 20		Level 21		Level 22		Level 23		Level 24	
	ug/L	RF	ug/L	RF	ug/L	RF	ug/L	RF	ug/L	RF	ug/L	RF
Aroclor-1254 (2)												
Aroclor-1254 (3)												
Aroclor-1254 (4)												
Aroclor-1254 (5)												
Aroclor-1254 [2C]												
Aroclor-1254 (1) [2C]												
Aroclor-1254 (2) [2C]												
Aroclor-1254 (3) [2C]												
Aroclor-1254 (4) [2C]												
Aroclor-1254 (5) [2C]												
Aroclor-1260			2500	2082.993	1000	2035.188	750	2046.887	500	1720.375	100	2084.956
Aroclor-1260 (1)			2500	3833.414	1000	3683.304	750	3675.605	500	3082.456	100	3649.22
Aroclor-1260 (2)			2500	1916	1000	1893.477	750	1921.672	500	1659.208	100	2063.82
Aroclor-1260 (3)			2500	2163.115	1000	2124.221	750	2147.044	500	1784.57	100	2154.42
Aroclor-1260 (4)			2500	1514.934	1000	1499.595	750	1518.699	500	1259.214	100	1547.43
Aroclor-1260 (5)			2500	987.5016	1000	975.345	750	971.4133	500	816.428	100	1009.89
Aroclor-1260 [2C]			2500	1522.25	1000	1605.31	750	1650.016	500	1445.249	100	1826.982
Aroclor-1260 (1) [2C]			2500	2457.321	1000	2582.683	750	2639.291	500	2291.97	100	2849.11
Aroclor-1260 (2) [2C]			2500	1367.806	1000	1454.311	750	1503.461	500	1335.036	100	1715.94
Aroclor-1260 (3) [2C]			2500	1278.622	1000	1348.227	750	1393.125	500	1230.484	100	1574.02
Aroclor-1260 (4) [2C]			2500	1442.752	1000	1519.8	750	1565.029	500	1363.782	100	1727.28
Aroclor-1260 (5) [2C]			2500	1064.749	1000	1121.531	750	1149.175	500	1004.972	100	1268.56
Aroclor-1268												
Aroclor-1268 (1)												
Aroclor-1268 (2)												
Aroclor-1268 (3)												
Aroclor-1268 (4)												
Aroclor-1268 (5)												
Aroclor-1268 [2C]												
Aroclor-1268 (1) [2C]												
Aroclor-1268 (2) [2C]												

INITIAL CALIBRATION DATA (Continued)

SW8082A

Laboratory:	Empirical Laboratories, LLC	SDG:	1109191
Client:	Tetra Tech NUS, Inc. (T010)	Project:	Navy Fuel Depot CTO JM46
Calibration:	1275001	Instrument:	GL-ECD3
Matrix:	Water	Calibration Dates:	8/25/10 3:32 9/28/11 11:24

Compound	Level 19		Level 20		Level 21		Level 22		Level 23		Level 24	
	ug/L	RF	ug/L	RF	ug/L	RF	ug/L	RF	ug/L	RF	ug/L	RF
Aroclor-1268 (3) [2C]												
Aroclor-1268 (4) [2C]												
Aroclor-1268 (5) [2C]												
Tetrachloro-m-xylene			250		100		75		50		10	
Tetrachloro-m-xylene [2C]			250		100		75		50		10	
Decachlorobiphenyl			250		100		75		50		10	
Decachlorobiphenyl [2C]			250		100		75		50		10	

INITIAL CALIBRATION DATA (Continued)

SW8082A

Laboratory:	Empirical Laboratories, LLC	SDG:	1109191
Client:	Tetra Tech NUS, Inc. (T010)	Project:	Navy Fuel Depot CTO JM46
Calibration:	1275001	Instrument:	GL-ECD3
Matrix:	Water	Calibration Dates:	8/25/10 3:32 9/28/11 11:24

Compound	Level 25		Level 26		Level 27		Level 28		Level 29		Level 30	
	ug/L	RF	ug/L	RF	ug/L	RF	ug/L	RF	ug/L	RF	ug/L	RF
Aroclor-1016	50	1321.756										
Aroclor-1016 (1)	50	3194.3										
Aroclor-1016 (2)	50	790.2										
Aroclor-1016 (3)	50	770.06										
Aroclor-1016 (4)	50	1131.02										
Aroclor-1016 (5)	50	723.2										
Aroclor-1016 [2C]	50	833.188										
Aroclor-1016 (1) [2C]	50	1236.26										
Aroclor-1016 (2) [2C]	50	667.78										
Aroclor-1016 (3) [2C]	50	931.88										
Aroclor-1016 (4) [2C]	50	618.44										
Aroclor-1016 (5) [2C]	50	711.58										
Aroclor-1221			2500	307.532	1000	333.3164	750	320.4096	500	348.046	100	378.792
Aroclor-1221 (1)			2500	728.9236	1000	778.165	750	723.9026	500	802.69	100	824.84
Aroclor-1221 (2)			2500	216.0624	1000	237.462	750	244.3773	500	257.578	100	311.96
Aroclor-1221 (3)			2500	104.058	1000	121.292	750	128.9613	500	132.516	100	159.07
Aroclor-1221 (4)			2500	300.6684	1000	322.243	750	314.2413	500	330.856	100	362.63
Aroclor-1221 (5)			2500	187.9476	1000	207.42	750	190.5653	500	216.59	100	235.46
Aroclor-1221 [2C]			2500	303.3857	1000	330.0778	750	338.3389	500	356.7156	100	437.05
Aroclor-1221 (1) [2C]			2500	664.0104	1000	719.811	750	733.4893	500	776.988	100	935.64
Aroclor-1221 (2) [2C]			2500	223.7604	1000	246.313	750	255.236	500	272.496	100	365.59
Aroclor-1221 (3) [2C]			2500	116.794	1000	128.145	750	134.2013	500	140.266	100	170.86
Aroclor-1221 (4) [2C]			2500	322.6628	1000	347.962	750	355.9413	500	370.24	100	441.34
Aroclor-1221 (5) [2C]			2500	189.7012	1000	208.158	750	212.8267	500	223.588	100	271.82
Aroclor-1242												
Aroclor-1242 (1)												
Aroclor-1242 (2)												
Aroclor-1242 (3)												
Aroclor-1242 (4)												
Aroclor-1242 (5)												
Aroclor-1242 [2C]												

INITIAL CALIBRATION DATA (Continued)

SW8082A

Laboratory:	Empirical Laboratories, LLC	SDG:	1109191
Client:	Tetra Tech NUS, Inc. (T010)	Project:	Navy Fuel Depot CTO JM46
Calibration:	1275001	Instrument:	GL-ECD3
Matrix:	Water	Calibration Dates:	8/25/10 3:32 9/28/11 11:24

Compound	Level 25		Level 26		Level 27		Level 28		Level 29		Level 30	
	ug/L	RF	ug/L	RF	ug/L	RF	ug/L	RF	ug/L	RF	ug/L	RF
Aroclor-1242 (1) [2C]												
Aroclor-1242 (2) [2C]												
Aroclor-1242 (3) [2C]												
Aroclor-1242 (4) [2C]												
Aroclor-1242 (5) [2C]												
Aroclor-1254												
Aroclor-1254 (1)												
Aroclor-1254 (2)												
Aroclor-1254 (3)												
Aroclor-1254 (4)												
Aroclor-1254 (5)												
Aroclor-1254 [2C]												
Aroclor-1254 (1) [2C]												
Aroclor-1254 (2) [2C]												
Aroclor-1254 (3) [2C]												
Aroclor-1254 (4) [2C]												
Aroclor-1254 (5) [2C]												
Aroclor-1260	50	2132.912										
Aroclor-1260 (1)	50	3619.7										
Aroclor-1260 (2)	50	2110.86										
Aroclor-1260 (3)	50	2162.46										
Aroclor-1260 (4)	50	1573.2										
Aroclor-1260 (5)	50	1198.34										
Aroclor-1260 [2C]	50	1862.632										
Aroclor-1260 (1) [2C]	50	2844.12										
Aroclor-1260 (2) [2C]	50	1751.32										
Aroclor-1260 (3) [2C]	50	1659.5										
Aroclor-1260 (4) [2C]	50	1771.46										
Aroclor-1260 (5) [2C]	50	1286.76										
Aroclor-1262 (1)												
Aroclor-1262 (2)												

INITIAL CALIBRATION DATA (Continued)

SW8082A

Laboratory:	Empirical Laboratories, LLC	SDG:	1109191
Client:	Tetra Tech NUS, Inc. (T010)	Project:	Navy Fuel Depot CTO JM46
Calibration:	1275001	Instrument:	GL-ECD3
Matrix:	Water	Calibration Dates:	8/25/10 3:32 9/28/11 11:24

Compound	Level 25		Level 26		Level 27		Level 28		Level 29		Level 30	
	ug/L	RF	ug/L	RF	ug/L	RF	ug/L	RF	ug/L	RF	ug/L	RF
Aroclor-1262 (3)												
Aroclor-1262 (4)												
Aroclor-1262 (5)												
Aroclor-1262 (1) [2C]												
Aroclor-1262 (2) [2C]												
Aroclor-1262 (3) [2C]												
Aroclor-1262 (4) [2C]												
Aroclor-1262 (5) [2C]												
Aroclor-1268												
Aroclor-1268 (1)												
Aroclor-1268 (2)												
Aroclor-1268 (3)												
Aroclor-1268 (4)												
Aroclor-1268 (5)												
Aroclor-1268 [2C]												
Aroclor-1268 (1) [2C]												
Aroclor-1268 (2) [2C]												
Aroclor-1268 (3) [2C]												
Aroclor-1268 (4) [2C]												
Aroclor-1268 (5) [2C]												
Tetrachloro-m-xylene	5											
Tetrachloro-m-xylene [2C]	5											
Decachlorobiphenyl	5											
Decachlorobiphenyl [2C]	5											
Aroclor-1016	50	1321.756										
Aroclor-1016 (1)	50	3194.3										
Aroclor-1016 (2)	50	790.2										
Aroclor-1016 (3)	50	770.06										
Aroclor-1016 (4)	50	1131.02										
Aroclor-1016 (5)	50	723.2										
Aroclor-1016 [2C]	50	833.188										

INITIAL CALIBRATION DATA (Continued)

SW8082A

Laboratory: Empirical Laboratories, LLC
SDG: 1109191
Client: Tetra Tech NUS, Inc. (T010)
Project: Navy Fuel Depot CTO JM46
Calibration: 1275001
Instrument: GL-ECD3
Matrix: Water
Calibration Dates: 8/25/10 3:32 9/28/11 11:24

Compound	Level 25		Level 26		Level 27		Level 28		Level 29		Level 30	
	ug/L	RF	ug/L	RF	ug/L	RF	ug/L	RF	ug/L	RF	ug/L	RF
Aroclor-1016 (1) [2C]	50	1236.26										
Aroclor-1016 (2) [2C]	50	667.78										
Aroclor-1016 (3) [2C]	50	931.88										
Aroclor-1016 (4) [2C]	50	618.44										
Aroclor-1016 (5) [2C]	50	711.58										
Aroclor-1221			2500	307.532	1000	333.3164	750	320.4096	500	348.046	100	378.792
Aroclor-1221 (1)			2500	728.9236	1000	778.165	750	723.9026	500	802.69	100	824.84
Aroclor-1221 (2)			2500	216.0624	1000	237.462	750	244.3773	500	257.578	100	311.96
Aroclor-1221 (3)			2500	104.058	1000	121.292	750	128.9613	500	132.516	100	159.07
Aroclor-1221 (4)			2500	300.6684	1000	322.243	750	314.2413	500	330.856	100	362.63
Aroclor-1221 (5)			2500	187.9476	1000	207.42	750	190.5653	500	216.59	100	235.46
Aroclor-1221 [2C]			2500	303.3857	1000	330.0778	750	338.3389	500	356.7156	100	437.05
Aroclor-1221 (1) [2C]			2500	664.0104	1000	719.811	750	733.4893	500	776.988	100	935.64
Aroclor-1221 (2) [2C]			2500	223.7604	1000	246.313	750	255.236	500	272.496	100	365.59
Aroclor-1221 (3) [2C]			2500	116.794	1000	128.145	750	134.2013	500	140.266	100	170.86
Aroclor-1221 (4) [2C]			2500	322.6628	1000	347.962	750	355.9413	500	370.24	100	441.34
Aroclor-1221 (5) [2C]			2500	189.7012	1000	208.158	750	212.8267	500	223.588	100	271.82
Aroclor-1242												
Aroclor-1242 (1)												
Aroclor-1242 (2)												
Aroclor-1242 (3)												
Aroclor-1242 (4)												
Aroclor-1242 (5)												
Aroclor-1242 [2C]												
Aroclor-1242 (1) [2C]												
Aroclor-1242 (2) [2C]												
Aroclor-1242 (3) [2C]												
Aroclor-1242 (4) [2C]												
Aroclor-1242 (5) [2C]												
Aroclor-1254												
Aroclor-1254 (1)												

INITIAL CALIBRATION DATA (Continued)

SW8082A

Laboratory:	Empirical Laboratories, LLC	SDG:	1109191
Client:	Tetra Tech NUS, Inc. (T010)	Project:	Navy Fuel Depot CTO JM46
Calibration:	1275001	Instrument:	GL-ECD3
Matrix:	Water	Calibration Dates:	8/25/10 3:32 9/28/11 11:24

Compound	Level 25		Level 26		Level 27		Level 28		Level 29		Level 30	
	ug/L	RF	ug/L	RF	ug/L	RF	ug/L	RF	ug/L	RF	ug/L	RF
Aroclor-1254 (2)												
Aroclor-1254 (3)												
Aroclor-1254 (4)												
Aroclor-1254 (5)												
Aroclor-1254 [2C]												
Aroclor-1254 (1) [2C]												
Aroclor-1254 (2) [2C]												
Aroclor-1254 (3) [2C]												
Aroclor-1254 (4) [2C]												
Aroclor-1254 (5) [2C]												
Aroclor-1260	50	2132.912										
Aroclor-1260 (1)	50	3619.7										
Aroclor-1260 (2)	50	2110.86										
Aroclor-1260 (3)	50	2162.46										
Aroclor-1260 (4)	50	1573.2										
Aroclor-1260 (5)	50	1198.34										
Aroclor-1260 [2C]	50	1862.632										
Aroclor-1260 (1) [2C]	50	2844.12										
Aroclor-1260 (2) [2C]	50	1751.32										
Aroclor-1260 (3) [2C]	50	1659.5										
Aroclor-1260 (4) [2C]	50	1771.46										
Aroclor-1260 (5) [2C]	50	1286.76										
Aroclor-1268												
Aroclor-1268 (1)												
Aroclor-1268 (2)												
Aroclor-1268 (3)												
Aroclor-1268 (4)												
Aroclor-1268 (5)												
Aroclor-1268 [2C]												
Aroclor-1268 (1) [2C]												
Aroclor-1268 (2) [2C]												

INITIAL CALIBRATION DATA (Continued)

SW8082A

Laboratory:	Empirical Laboratories, LLC	SDG:	1109191
Client:	Tetra Tech NUS, Inc. (T010)	Project:	Navy Fuel Depot CTO JM46
Calibration:	1275001	Instrument:	GL-ECD3
Matrix:	Water	Calibration Dates:	8/25/10 3:32 9/28/11 11:24

Compound	Level 25		Level 26		Level 27		Level 28		Level 29		Level 30	
	ug/L	RF	ug/L	RF	ug/L	RF	ug/L	RF	ug/L	RF	ug/L	RF
Aroclor-1268 (3) [2C]												
Aroclor-1268 (4) [2C]												
Aroclor-1268 (5) [2C]												
Tetrachloro-m-xylene	5											
Tetrachloro-m-xylene [2C]	5											
Decachlorobiphenyl	5											
Decachlorobiphenyl [2C]	5											

INITIAL CALIBRATION DATA (Continued)

SW8082A

Laboratory:	Empirical Laboratories, LLC	SDG:	1109191
Client:	Tetra Tech NUS, Inc. (T010)	Project:	Navy Fuel Depot CTO JM46
Calibration:	1275001	Instrument:	GL-ECD3
Matrix:	Water	Calibration Dates:	8/25/10 3:32 9/28/11 11:24

Compound	Level 31		Level 32		Level 33		Level 34		Level 35		Level 36	
	ug/L	RF	ug/L	RF	ug/L	RF	ug/L	RF	ug/L	RF	ug/L	RF
Aroclor-1016												
Aroclor-1016 (1)												
Aroclor-1016 (2)												
Aroclor-1016 (3)												
Aroclor-1016 (4)												
Aroclor-1016 (5)												
Aroclor-1016 [2C]												
Aroclor-1016 (1) [2C]												
Aroclor-1016 (2) [2C]												
Aroclor-1016 (3) [2C]												
Aroclor-1016 (4) [2C]												
Aroclor-1016 (5) [2C]												
Aroclor-1221	50	396840										
Aroclor-1221 (1)	50	849840										
Aroclor-1221 (2)	50	350500										
Aroclor-1221 (3)	50	167700										
Aroclor-1221 (4)	50	373220										
Aroclor-1221 (5)	50	242940										
Aroclor-1221 [2C]	50	464568										
Aroclor-1221 (1) [2C]	50	999460										
Aroclor-1221 (2) [2C]	50	395280										
Aroclor-1221 (3) [2C]	50	182740										
Aroclor-1221 (4) [2C]	50	459360										
Aroclor-1221 (5) [2C]	50	286000										
Aroclor-1242			2500	714615.2	1000	773864	750	766440.9	500	800142	100	839580
Aroclor-1242 (1)			2500	1153122	1000	1206357	750	1152667	500	1176620	100	1132340
Aroclor-1242 (2)			2500	661441.2	1000	716351	750	737482.7	500	749320	100	761540
Aroclor-1242 (3)			2500	656102.4	1000	734123	750	751238.6	500	812104	100	984350
Aroclor-1242 (4)			2500	506597.6	1000	569426	750	558745.4	500	596908	100	686110
Aroclor-1242 (5)			2500	595812.8	1000	643063	750	632070.7	500	665758	100	633560
Aroclor-1242 [2C]			2500	713256.4	1000	784255.2	750	834598.4	500	887626.8	100	964584

INITIAL CALIBRATION DATA (Continued)

SW8082A

Laboratory:	Empirical Laboratories, LLC	SDG:	1109191
Client:	Tetra Tech NUS, Inc. (T010)	Project:	Navy Fuel Depot CTO JM46
Calibration:	1275001	Instrument:	GL-ECD3
Matrix:	Water	Calibration Dates:	8/25/10 3:32 9/28/11 11:24

Compound	Level 31		Level 32		Level 33		Level 34		Level 35		Level 36	
	ug/L	RF	ug/L	RF	ug/L	RF	ug/L	RF	ug/L	RF	ug/L	RF
Aroclor-1242 (1) [2C]			2500	1004368	1000	1128679	750	1186243	500	1272788	100	1376570
Aroclor-1242 (2) [2C]			2500	393898	1000	438104	750	454141.3	500	484810	100	531970
Aroclor-1242 (3) [2C]			2500	765369.6	1000	814241	750	874140	500	894472	100	984680
Aroclor-1242 (4) [2C]			2500	737305.2	1000	827079	750	907601.3	500	978762	100	1046560
Aroclor-1242 (5) [2C]			2500	665342	1000	713173	750	750866.6	500	807302	100	883140
Aroclor-1254												
Aroclor-1254 (1)												
Aroclor-1254 (2)												
Aroclor-1254 (3)												
Aroclor-1254 (4)												
Aroclor-1254 (5)												
Aroclor-1254 [2C]												
Aroclor-1254 (1) [2C]												
Aroclor-1254 (2) [2C]												
Aroclor-1254 (3) [2C]												
Aroclor-1254 (4) [2C]												
Aroclor-1254 (5) [2C]												
Aroclor-1260												
Aroclor-1260 (1)												
Aroclor-1260 (2)												
Aroclor-1260 (3)												
Aroclor-1260 (4)												
Aroclor-1260 (5)												
Aroclor-1260 [2C]												
Aroclor-1260 (1) [2C]												
Aroclor-1260 (2) [2C]												
Aroclor-1260 (3) [2C]												
Aroclor-1260 (4) [2C]												
Aroclor-1260 (5) [2C]												
Aroclor-1262 (1)												
Aroclor-1262 (2)												

INITIAL CALIBRATION DATA (Continued)

SW8082A

Laboratory:	Empirical Laboratories, LLC	SDG:	1109191
Client:	Tetra Tech NUS, Inc. (T010)	Project:	Navy Fuel Depot CTO JM46
Calibration:	1275001	Instrument:	GL-ECD3
Matrix:	Water	Calibration Dates:	8/25/10 3:32 9/28/11 11:24

Compound	Level 31		Level 32		Level 33		Level 34		Level 35		Level 36	
	ug/L	RF	ug/L	RF	ug/L	RF	ug/L	RF	ug/L	RF	ug/L	RF
Aroclor-1262 (3)												
Aroclor-1262 (4)												
Aroclor-1262 (5)												
Aroclor-1262 (1) [2C]												
Aroclor-1262 (2) [2C]												
Aroclor-1262 (3) [2C]												
Aroclor-1262 (4) [2C]												
Aroclor-1262 (5) [2C]												
Aroclor-1268												
Aroclor-1268 (1)												
Aroclor-1268 (2)												
Aroclor-1268 (3)												
Aroclor-1268 (4)												
Aroclor-1268 (5)												
Aroclor-1268 [2C]												
Aroclor-1268 (1) [2C]												
Aroclor-1268 (2) [2C]												
Aroclor-1268 (3) [2C]												
Aroclor-1268 (4) [2C]												
Aroclor-1268 (5) [2C]												
Tetrachloro-m-xylene												
Tetrachloro-m-xylene [2C]												
Decachlorobiphenyl												
Decachlorobiphenyl [2C]												
Aroclor-1016												
Aroclor-1016 (1)												
Aroclor-1016 (2)												
Aroclor-1016 (3)												
Aroclor-1016 (4)												
Aroclor-1016 (5)												
Aroclor-1016 [2C]												

INITIAL CALIBRATION DATA (Continued)

SW8082A

Laboratory: Empirical Laboratories, LLC
SDG: 1109191
Client: Tetra Tech NUS, Inc. (T010)
Project: Navy Fuel Depot CTO JM46
Calibration: 1275001
Instrument: GL-ECD3
Matrix: Water
Calibration Dates: 8/25/10 3:32 9/28/11 11:24

Compound	Level 31		Level 32		Level 33		Level 34		Level 35		Level 36	
	ug/L	RF	ug/L	RF	ug/L	RF	ug/L	RF	ug/L	RF	ug/L	RF
Aroclor-1016 (1) [2C]												
Aroclor-1016 (2) [2C]												
Aroclor-1016 (3) [2C]												
Aroclor-1016 (4) [2C]												
Aroclor-1016 (5) [2C]												
Aroclor-1221	50	396840										
Aroclor-1221 (1)	50	849840										
Aroclor-1221 (2)	50	350500										
Aroclor-1221 (3)	50	167700										
Aroclor-1221 (4)	50	373220										
Aroclor-1221 (5)	50	242940										
Aroclor-1221 [2C]	50	464568										
Aroclor-1221 (1) [2C]	50	999460										
Aroclor-1221 (2) [2C]	50	395280										
Aroclor-1221 (3) [2C]	50	182740										
Aroclor-1221 (4) [2C]	50	459360										
Aroclor-1221 (5) [2C]	50	286000										
Aroclor-1242			2500	714615.2	1000	773864	750	766440.9	500	800142	100	839580
Aroclor-1242 (1)			2500	1153122	1000	1206357	750	1152667	500	1176620	100	1132340
Aroclor-1242 (2)			2500	661441.2	1000	716351	750	737482.7	500	749320	100	761540
Aroclor-1242 (3)			2500	656102.4	1000	734123	750	751238.6	500	812104	100	984350
Aroclor-1242 (4)			2500	506597.6	1000	569426	750	558745.4	500	596908	100	686110
Aroclor-1242 (5)			2500	595812.8	1000	643063	750	632070.7	500	665758	100	633560
Aroclor-1242 [2C]			2500	713256.4	1000	784255.2	750	834598.4	500	887626.8	100	964584
Aroclor-1242 (1) [2C]			2500	1004368	1000	1128679	750	1186243	500	1272788	100	1376570
Aroclor-1242 (2) [2C]			2500	393898	1000	438104	750	454141.3	500	484810	100	531970
Aroclor-1242 (3) [2C]			2500	765369.6	1000	814241	750	874140	500	894472	100	984680
Aroclor-1242 (4) [2C]			2500	737305.2	1000	827079	750	907601.3	500	978762	100	1046560
Aroclor-1242 (5) [2C]			2500	665342	1000	713173	750	750866.6	500	807302	100	883140
Aroclor-1254												
Aroclor-1254 (1)												

INITIAL CALIBRATION DATA (Continued)

SW8082A

Laboratory:	Empirical Laboratories, LLC	SDG:	1109191
Client:	Tetra Tech NUS, Inc. (T010)	Project:	Navy Fuel Depot CTO JM46
Calibration:	1275001	Instrument:	GL-ECD3
Matrix:	Water	Calibration Dates:	8/25/10 3:32 9/28/11 11:24

Compound	Level 31		Level 32		Level 33		Level 34		Level 35		Level 36	
	ug/L	RF	ug/L	RF	ug/L	RF	ug/L	RF	ug/L	RF	ug/L	RF
Aroclor-1254 (2)												
Aroclor-1254 (3)												
Aroclor-1254 (4)												
Aroclor-1254 (5)												
Aroclor-1254 [2C]												
Aroclor-1254 (1) [2C]												
Aroclor-1254 (2) [2C]												
Aroclor-1254 (3) [2C]												
Aroclor-1254 (4) [2C]												
Aroclor-1254 (5) [2C]												
Aroclor-1260												
Aroclor-1260 (1)												
Aroclor-1260 (2)												
Aroclor-1260 (3)												
Aroclor-1260 (4)												
Aroclor-1260 (5)												
Aroclor-1260 [2C]												
Aroclor-1260 (1) [2C]												
Aroclor-1260 (2) [2C]												
Aroclor-1260 (3) [2C]												
Aroclor-1260 (4) [2C]												
Aroclor-1260 (5) [2C]												
Aroclor-1268												
Aroclor-1268 (1)												
Aroclor-1268 (2)												
Aroclor-1268 (3)												
Aroclor-1268 (4)												
Aroclor-1268 (5)												
Aroclor-1268 [2C]												
Aroclor-1268 (1) [2C]												
Aroclor-1268 (2) [2C]												

INITIAL CALIBRATION DATA (Continued)

SW8082A

Laboratory:	Empirical Laboratories, LLC	SDG:	1109191
Client:	Tetra Tech NUS, Inc. (T010)	Project:	Navy Fuel Depot CTO JM46
Calibration:	1275001	Instrument:	GL-ECD3
Matrix:	Water	Calibration Dates:	8/25/10 3:32 9/28/11 11:24

Compound	Level 31		Level 32		Level 33		Level 34		Level 35		Level 36	
	ug/L	RF	ug/L	RF	ug/L	RF	ug/L	RF	ug/L	RF	ug/L	RF
Aroclor-1268 (3) [2C]												
Aroclor-1268 (4) [2C]												
Aroclor-1268 (5) [2C]												
Tetrachloro-m-xylene												
Tetrachloro-m-xylene [2C]												
Decachlorobiphenyl												
Decachlorobiphenyl [2C]												

INITIAL CALIBRATION DATA (Continued)
SW8082A

Laboratory:	Empirical Laboratories, LLC	SDG:	1109191
Client:	Tetra Tech NUS, Inc. (T010)	Project:	Navy Fuel Depot CTO JM46
Calibration:	1275001	Instrument:	GL-ECD3
Matrix:	Water	Calibration Dates:	8/25/10 3:32 9/28/11 11:24

Compound	Level 37		Level 38		Level 39		Level 40		Level 41		Level 42	
	ug/L	RF	ug/L	RF	ug/L	RF	ug/L	RF	ug/L	RF	ug/L	RF
Aroclor-1016												
Aroclor-1016 (1)												
Aroclor-1016 (1) [2C]												
Aroclor-1016 (2)												
Aroclor-1016 (2) [2C]												
Aroclor-1016 (3)												
Aroclor-1016 (3) [2C]												
Aroclor-1016 (4)												
Aroclor-1016 (4) [2C]												
Aroclor-1016 (5)												
Aroclor-1016 (5) [2C]												
Aroclor-1016 [2C]												
Aroclor-1221												
Aroclor-1221 (1)												
Aroclor-1221 (1) [2C]												
Aroclor-1221 (2)												
Aroclor-1221 (2) [2C]												
Aroclor-1221 (3)												
Aroclor-1221 (3) [2C]												
Aroclor-1221 (4)												
Aroclor-1221 (4) [2C]												
Aroclor-1221 (5)												
Aroclor-1221 (5) [2C]												
Aroclor-1221 [2C]												
Aroclor-1242	50	854.12										
Aroclor-1242 (1)	50	1231.32										
Aroclor-1242 (1) [2C]	50	1506.84										
Aroclor-1242 (2)	50	809.24										
Aroclor-1242 (2) [2C]	50	611.64										
Aroclor-1242 (3)	50	1033.66										
Aroclor-1242 (3) [2C]	50	1071.68										

INITIAL CALIBRATION DATA (Continued)
SW8082A

Laboratory: Empirical Laboratories, LLC
SDG: 1109191
Client: Tetra Tech NUS, Inc. (T010)
Project: Navy Fuel Depot CTO JM46
Calibration: 1275001
Instrument: GL-ECD3
Matrix: Water
Calibration Dates: 8/25/10 3:32 9/28/11 11:24

Compound	Level 37		Level 38		Level 39		Level 40		Level 41		Level 42	
	ug/L	RF	ug/L	RF	ug/L	RF	ug/L	RF	ug/L	RF	ug/L	RF
Aroclor-1242 (4)	50	676.1										
Aroclor-1242 (4) [2C]	50	1144.66										
Aroclor-1242 (5)	50	520.28										
Aroclor-1242 (5) [2C]	50	967.78										
Aroclor-1242 [2C]	50	1060.52										
Aroclor-1254			2500	1593.385	1000	1675.9	750	1520.461	500	1514.941	100	1760.786
Aroclor-1254 (1)			2500	2181.569	1000	2213.754	750	2115.008	500	2069.622	100	2413.38
Aroclor-1254 (1) [2C]			2500	1665.312	1000	1848.402	750	1709.2	500	1824.956	100	2215.93
Aroclor-1254 (2)			2500	609.7048	1000	646.494	750	614.2546	500	620.22	100	759.06
Aroclor-1254 (2) [2C]			2500	1486.024	1000	1654.783	750	1611.873	500	1691.43	100	2067.97
Aroclor-1254 (3)			2500	1927.691	1000	1965.319	750	1867.789	500	1849.616	100	2202.79
Aroclor-1254 (3) [2C]			2500	1223.077	1000	1351.607	750	1342.195	500	1372.778	100	1685.03
Aroclor-1254 (4)			2500	1462.815	1000	1423.562	750	1352.996	500	1305.596	100	1469.41
Aroclor-1254 (4) [2C]			2500	1236.398	1000	1310.415	750	1273.376	500	1267.942	100	1544.31
Aroclor-1254 (5)			2500	1785.144	1000	2130.373	750	1652.259	500	1729.65	100	1959.29
Aroclor-1254 (5) [2C]			2500	1672.442	1000	1837.252	750	1415.377	500	1707.332	100	1794.39
Aroclor-1254 [2C]			2500	1456.651	1000	1600.492	750	1470.404	500	1572.888	100	1861.526
Aroclor-1260												
Aroclor-1260 (1)												
Aroclor-1260 (1) [2C]												
Aroclor-1260 (2)												
Aroclor-1260 (2) [2C]												
Aroclor-1260 (3)												
Aroclor-1260 (3) [2C]												
Aroclor-1260 (4)												
Aroclor-1260 (4) [2C]												
Aroclor-1260 (5)												
Aroclor-1260 (5) [2C]												
Aroclor-1260 [2C]												
Aroclor-1262 (1)												
Aroclor-1262 (1) [2C]												

INITIAL CALIBRATION DATA (Continued)
SW8082A

Laboratory:	Empirical Laboratories, LLC	SDG:	1109191
Client:	Tetra Tech NUS, Inc. (T010)	Project:	Navy Fuel Depot CTO JM46
Calibration:	1275001	Instrument:	GL-ECD3
Matrix:	Water	Calibration Dates:	8/25/10 3:32 9/28/11 11:24

Compound	Level 37		Level 38		Level 39		Level 40		Level 41		Level 42	
	ug/L	RF	ug/L	RF	ug/L	RF	ug/L	RF	ug/L	RF	ug/L	RF
Aroclor-1262 (2)												
Aroclor-1262 (2) [2C]												
Aroclor-1262 (3)												
Aroclor-1262 (3) [2C]												
Aroclor-1262 (4)												
Aroclor-1262 (4) [2C]												
Aroclor-1262 (5)												
Aroclor-1262 (5) [2C]												
Aroclor-1268												
Aroclor-1268 (1)												
Aroclor-1268 (1) [2C]												
Aroclor-1268 (2)												
Aroclor-1268 (2) [2C]												
Aroclor-1268 (3)												
Aroclor-1268 (3) [2C]												
Aroclor-1268 (4)												
Aroclor-1268 (4) [2C]												
Aroclor-1268 (5)												
Aroclor-1268 (5) [2C]												
Aroclor-1268 [2C]												
Decachlorobiphenyl												
Decachlorobiphenyl [2C]												
Tetrachloro-m-xylene												
Tetrachloro-m-xylene [2C]												
Aroclor-1016												
Aroclor-1016 (1)												
Aroclor-1016 (1) [2C]												
Aroclor-1016 (2)												
Aroclor-1016 (2) [2C]												
Aroclor-1016 (3)												
Aroclor-1016 (3) [2C]												

INITIAL CALIBRATION DATA (Continued)
SW8082A

Laboratory: Empirical Laboratories, LLC
SDG: 1109191
Client: Tetra Tech NUS, Inc. (T010)
Project: Navy Fuel Depot CTO JM46
Calibration: 1275001
Instrument: GL-ECD3
Matrix: Water
Calibration Dates: 8/25/10 3:32 9/28/11 11:24

Compound	Level 37		Level 38		Level 39		Level 40		Level 41		Level 42	
	ug/L	RF	ug/L	RF	ug/L	RF	ug/L	RF	ug/L	RF	ug/L	RF
Aroclor-1016 (4)												
Aroclor-1016 (4) [2C]												
Aroclor-1016 (5)												
Aroclor-1016 (5) [2C]												
Aroclor-1016 [2C]												
Aroclor-1221												
Aroclor-1221 (1)												
Aroclor-1221 (1) [2C]												
Aroclor-1221 (2)												
Aroclor-1221 (2) [2C]												
Aroclor-1221 (3)												
Aroclor-1221 (3) [2C]												
Aroclor-1221 (4)												
Aroclor-1221 (4) [2C]												
Aroclor-1221 (5)												
Aroclor-1221 (5) [2C]												
Aroclor-1221 [2C]												
Aroclor-1242	50	854.12										
Aroclor-1242 (1)	50	1231.32										
Aroclor-1242 (1) [2C]	50	1506.84										
Aroclor-1242 (2)	50	809.24										
Aroclor-1242 (2) [2C]	50	611.64										
Aroclor-1242 (3)	50	1033.66										
Aroclor-1242 (3) [2C]	50	1071.68										
Aroclor-1242 (4)	50	676.1										
Aroclor-1242 (4) [2C]	50	1144.66										
Aroclor-1242 (5)	50	520.28										
Aroclor-1242 (5) [2C]	50	967.78										
Aroclor-1242 [2C]	50	1060.52										
Aroclor-1254			2500	1593.385	1000	1675.9	750	1520.461	500	1514.941	100	1760.786
Aroclor-1254 (1)			2500	2181.569	1000	2213.754	750	2115.008	500	2069.622	100	2413.38

INITIAL CALIBRATION DATA (Continued)
SW8082A

Laboratory: Empirical Laboratories, LLC
SDG: 1109191
Client: Tetra Tech NUS, Inc. (T010)
Project: Navy Fuel Depot CTO JM46
Calibration: 1275001
Instrument: GL-ECD3
Matrix: Water
Calibration Dates: 8/25/10 3:32 9/28/11 11:24

Compound	Level 37		Level 38		Level 39		Level 40		Level 41		Level 42	
	ug/L	RF	ug/L	RF	ug/L	RF	ug/L	RF	ug/L	RF	ug/L	RF
Aroclor-1254 (1) [2C]			2500	1665.312	1000	1848.402	750	1709.2	500	1824.956	100	2215.93
Aroclor-1254 (2)			2500	609.7048	1000	646.494	750	614.2546	500	620.22	100	759.06
Aroclor-1254 (2) [2C]			2500	1486.024	1000	1654.783	750	1611.873	500	1691.43	100	2067.97
Aroclor-1254 (3)			2500	1927.691	1000	1965.319	750	1867.789	500	1849.616	100	2202.79
Aroclor-1254 (3) [2C]			2500	1223.077	1000	1351.607	750	1342.195	500	1372.778	100	1685.03
Aroclor-1254 (4)			2500	1462.815	1000	1423.562	750	1352.996	500	1305.596	100	1469.41
Aroclor-1254 (4) [2C]			2500	1236.398	1000	1310.415	750	1273.376	500	1267.942	100	1544.31
Aroclor-1254 (5)			2500	1785.144	1000	2130.373	750	1652.259	500	1729.65	100	1959.29
Aroclor-1254 (5) [2C]			2500	1672.442	1000	1837.252	750	1415.377	500	1707.332	100	1794.39
Aroclor-1254 [2C]			2500	1456.651	1000	1600.492	750	1470.404	500	1572.888	100	1861.526
Aroclor-1260												
Aroclor-1260 (1)												
Aroclor-1260 (1) [2C]												
Aroclor-1260 (2)												
Aroclor-1260 (2) [2C]												
Aroclor-1260 (3)												
Aroclor-1260 (3) [2C]												
Aroclor-1260 (4)												
Aroclor-1260 (4) [2C]												
Aroclor-1260 (5)												
Aroclor-1260 (5) [2C]												
Aroclor-1260 [2C]												
Aroclor-1268												
Aroclor-1268 (1)												
Aroclor-1268 (1) [2C]												
Aroclor-1268 (2)												
Aroclor-1268 (2) [2C]												
Aroclor-1268 (3)												
Aroclor-1268 (3) [2C]												
Aroclor-1268 (4)												
Aroclor-1268 (4) [2C]												

INITIAL CALIBRATION DATA (Continued)
SW8082A

Laboratory:	Empirical Laboratories, LLC	SDG:	1109191
Client:	Tetra Tech NUS, Inc. (T010)	Project:	Navy Fuel Depot CTO JM46
Calibration:	1275001	Instrument:	GL-ECD3
Matrix:	Water	Calibration Dates:	8/25/10 3:32 9/28/11 11:24

Compound	Level 37		Level 38		Level 39		Level 40		Level 41		Level 42	
	ug/L	RF	ug/L	RF	ug/L	RF	ug/L	RF	ug/L	RF	ug/L	RF
Aroclor-1268 (5)												
Aroclor-1268 (5) [2C]												
Aroclor-1268 [2C]												
Decachlorobiphenyl												
Decachlorobiphenyl [2C]												
Tetrachloro-m-xylene												
Tetrachloro-m-xylene [2C]												

INITIAL CALIBRATION DATA (Continued)

SW8082A

Laboratory:	Empirical Laboratories, LLC	SDG:	1109191
Client:	Tetra Tech NUS, Inc. (T010)	Project:	Navy Fuel Depot CTO JM46
Calibration:	1275001	Instrument:	GL-ECD3
Matrix:	Water	Calibration Dates:	8/25/10 3:32 9/28/11 11:24

Compound	Mean RF	RF RSD	Mean RT	RT RSD	Linear r	Quad COD	LIMIT	Q
Aroclor-1016	988.5776	19.89678	7.846167	1.453138E-02	0.9994703		0.995	
Aroclor-1016 (1)	1848.906	40.24856	7.655	1.615223E-02	0.9994829		0.995	
Aroclor-1016 (2)	709.958	8.571657	7.079667	1.167054E-02	0.9994554		0.995	
Aroclor-1016 (3)	699.4579	9.477655	7.3065	6.789139E-03	0.9993045		0.995	
Aroclor-1016 (4)	1009.497	9.223935	7.6285	1.804089E-02	0.999261		0.995	
Aroclor-1016 (5)	675.0696	7.134182	7.846167	1.453138E-02	0.9995023		0.995	
Aroclor-1016 [2C]	722.6023	11.66771	7.127167	1.716239E-02			20	
Aroclor-1016 (1) [2C]	1046.325	13.86108	6.8155	8.321414E-03			20	
Aroclor-1016 (2) [2C]	573.6751	11.48568	6.533167	7.52791E-03			20	
Aroclor-1016 (3) [2C]	826.3927	10.52362	6.794167	2.128621E-02			20	
Aroclor-1016 (4) [2C]	564.1648	9.203863	7.0255	1.962031E-02			20	
Aroclor-1016 (5) [2C]	602.4543	12.46637	7.127167	1.716239E-02			20	
Aroclor-1221	347.4893	9.924339	5.7135	4.536247E-02			20	
Aroclor-1221 (1)	784.7269	6.504846	5.7135	4.536247E-02			20	
Aroclor-1221 (2)	269.6566	18.92312	4.818833	5.276151E-02			20	
Aroclor-1221 (3)	135.5996	17.55865	5.322	5.949774E-02			20	
Aroclor-1221 (4)	333.9765	8.476765	5.551167	5.769338E-02			20	
Aroclor-1221 (5)	213.4872	10.62871	5.638167	4.761936E-02			20	
Aroclor-1221 [2C]	371.6894	17.28238	4.621167	2.395263E-02			20	
Aroclor-1221 (1) [2C]	804.8998	16.47422	4.621167	2.395263E-02			20	
Aroclor-1221 (2) [2C]	293.1126	23.90633	3.882667	0.0386834			20	*
Aroclor-1221 (3) [2C]	145.5011	17.6839	4.319833	2.417878E-02			20	
Aroclor-1221 (4) [2C]	382.9177	14.30278	4.487667	2.750918E-02			20	
Aroclor-1221 (5) [2C]	232.0156	16.46603	4.557667	2.353323E-02			20	
Aroclor-1242	791.4603	6.481551	7.114	2.068065E-02			20	
Aroclor-1242 (1)	1175.404	3.172852	6.611	5.346339E-02			20	
Aroclor-1242 (2)	739.2291	6.648799	6.2935	1.573445E-02			20	
Aroclor-1242 (3)	828.5963	18.00172	6.782333	3.062254E-02			20	
Aroclor-1242 (4)	598.9812	11.70324	6.888667	2.426782E-02			20	
Aroclor-1242 (5)	615.0907	8.397498	7.114	2.068065E-02			20	
Aroclor-1242 [2C]	874.1401	14.34553	6.077667	0.0297564			20	
Aroclor-1242 (1) [2C]	1245.915	14.42601	5.314833	9.833187E-03			20	

INITIAL CALIBRATION DATA (Continued)

SW8082A

Laboratory:	Empirical Laboratories, LLC	SDG:	1109191
Client:	Tetra Tech NUS, Inc. (T010)	Project:	Navy Fuel Depot CTO JM46
Calibration:	1275001	Instrument:	GL-ECD3
Matrix:	Water	Calibration Dates:	8/25/10 3:32 9/28/11 11:24

Compound	Mean RF	RF RSD	Mean RT	RT RSD	Linear r	Quad COD	LIMIT	Q
Aroclor-1242 (2) [2C]	485.7606	15.86386	4.645833	2.298644E-02			20	
Aroclor-1242 (3) [2C]	900.7638	12.44385	5.294	1.873726E-02			20	
Aroclor-1242 (4) [2C]	940.3279	15.74699	5.353667	2.229515E-02			20	
Aroclor-1242 (5) [2C]	797.9339	14.08717	6.077667	0.0297564			20	
Aroclor-1254	1699.168	13.59019	8.539667	5.502189E-02			20	
Aroclor-1254 (1)	2292.719	11.30072	7.694333	6.199653E-02			20	
Aroclor-1254 (2)	693.5489	17.38971	6.3965	0.0218992			20	
Aroclor-1254 (3)	2066.051	13.71531	7.2715	3.150532E-02			20	
Aroclor-1254 (4)	1446.243	8.570629	8.046	0.1017325			20	
Aroclor-1254 (5)	1997.279	19.8671	8.539667	5.502189E-02			20	
Aroclor-1254 [2C]	1693.787	17.00119	6.932	3.953441E-02	0.9985235		0.995	
Aroclor-1254 (1) [2C]	1952.343	15.96792	6.223667	3.746303E-02	0.9982718		0.995	
Aroclor-1254 (2) [2C]	1830.507	20.19465	5.678667	2.516689E-02	0.9983385		0.995	
Aroclor-1254 (3) [2C]	1494.541	19.31069	5.844167	0.0256865	0.9985135		0.995	
Aroclor-1254 (4) [2C]	1378.73	12.30654	6.498167	7.342451E-02	0.9995308		0.995	
Aroclor-1254 (5) [2C]	1812.815	19.04287	6.932	3.953441E-02	0.9942367		0.995	*
Aroclor-1260	2017.218	7.406798	12.24983	7.414517E-03			20	
Aroclor-1260 (1)	3590.617	7.233293	11.12617	0.0147834			20	
Aroclor-1260 (2)	1927.506	8.219695	9.969333	9.563524E-03			20	
Aroclor-1260 (3)	2089.305	7.178012	10.32783	2.378826E-03			20	
Aroclor-1260 (4)	1485.512	7.669346	10.43333	3.956388E-03			20	
Aroclor-1260 (5)	993.153	12.28537	12.24983	7.414517E-03			20	
Aroclor-1260 [2C]	1652.073	10.01034	9.996833	7.67908E-03			20	
Aroclor-1260 (1) [2C]	2610.749	8.357481	9.996833	7.67908E-03			20	
Aroclor-1260 (2) [2C]	1521.312	11.53059	8.870667	1.242484E-02			20	
Aroclor-1260 (3) [2C]	1413.996	11.9452	9.066833	1.194378E-02			20	
Aroclor-1260 (4) [2C]	1565.017	10.16091	9.292167	1.667907E-02			20	
Aroclor-1260 (5) [2C]	1149.291	9.67878	9.679667	1.23889E-03			20	
Aroclor-1262 (1)	3971.891	4.032184	10.30883	0.0193769			20	
Aroclor-1262 (2)	1167.149	6.780716	8.850167	3.775299E-03			20	
Aroclor-1262 (3)	1423.247	5.608421	9.178167	1.754334E-02			20	
Aroclor-1262 (4)	2168.676	3.781752	9.630333	6.713731E-03			20	

INITIAL CALIBRATION DATA (Continued)

SW8082A

Laboratory:	Empirical Laboratories, LLC	SDG:	1109191
Client:	Tetra Tech NUS, Inc. (T010)	Project:	Navy Fuel Depot CTO JM46
Calibration:	1275001	Instrument:	GL-ECD3
Matrix:	Water	Calibration Dates:	8/25/10 3:32 9/28/11 11:24

Compound	Mean RF	RF RSD	Mean RT	RT RSD	Linear r	Quad COD	LIMIT	Q
Aroclor-1262 (5)	1923.323	5.169302	9.9105	1.532858E-02			20	
Aroclor-1262 (1) [2C]	1891.064	12.46336	8.750667	1.594276E-02			20	
Aroclor-1262 (2) [2C]	689.7868	15.03816	7.471167	0.0190008			20	
Aroclor-1262 (3) [2C]	829.5704	13.50672	7.699667	1.310762E-02			20	
Aroclor-1262 (4) [2C]	1186.472	14.00969	8.134333	2.381826E-02			20	
Aroclor-1262 (5) [2C]	992.9564	14.54783	8.441333	1.072197E-02			20	
Aroclor-1268	4950.131	5.884554	11.3085	1.188354E-02			20	
Aroclor-1268 (1)	10633.26	7.456442	11.3085	1.188354E-02			20	
Aroclor-1268 (2)	4906.048	5.456476	10.2125	1.012895E-02			20	
Aroclor-1268 (3)	4157.727	4.834059	10.31367	0.0165684			20	
Aroclor-1268 (4)	3544.431	4.935248	10.54033	0.0108443			20	
Aroclor-1268 (5)	1509.183	4.2704	10.9575	1.378519E-02			20	
Aroclor-1268 [2C]	2609.566	9.647623	9.6885	5.674121E-03			20	
Aroclor-1268 (1) [2C]	5435.372	9.304561	9.6885	5.674121E-03			20	
Aroclor-1268 (2) [2C]	2529.701	10.17003	8.657166	1.145883E-02			20	
Aroclor-1268 (3) [2C]	2239.34	9.177625	8.736334	9.409822E-03			20	
Aroclor-1268 (4) [2C]	1942.012	10.40219	8.974167	8.895803E-03			20	
Aroclor-1268 (5) [2C]	901.405	10.01399	9.357	1.944801E-02			20	
Tetrachloro-m-xylene	35686.53	2.292184	5.777428	2.481516E-02			20	
Tetrachloro-m-xylene [2C]	35149.92	7.765948	5.115286	2.109323E-02			20	
Decachlorobiphenyl	36329.22	8.538561	12.22557	0.0208356			20	
Decachlorobiphenyl [2C]	29268.66	12.81874	11.13771	3.591167E-03			20	
Aroclor-1016	988.5776	19.89678	7.846167	1.453138E-02			20	
Aroclor-1016 (1)	1848.906	40.24856	7.655	1.615223E-02	0.9994829		0.995	
Aroclor-1016 (2)	709.958	8.571657	7.079667	1.167054E-02	0.9994554		0.995	
Aroclor-1016 (3)	699.4579	9.477655	7.3065	6.789139E-03	0.9993045		0.995	
Aroclor-1016 (4)	1009.497	9.223935	7.6285	1.804089E-02	0.999261		0.995	
Aroclor-1016 (5)	675.0696	7.134182	7.846167	1.453138E-02	0.9995023		0.995	
Aroclor-1016 [2C]	722.6023	11.66771	7.127167	1.716239E-02			20	
Aroclor-1016 (1) [2C]	1046.325	13.86108	6.8155	8.321414E-03			20	
Aroclor-1016 (2) [2C]	573.6751	11.48568	6.533167	7.52791E-03			20	
Aroclor-1016 (3) [2C]	826.3927	10.52362	6.794167	2.128621E-02			20	

INITIAL CALIBRATION DATA (Continued)

SW8082A

Laboratory:	Empirical Laboratories, LLC	SDG:	1109191
Client:	Tetra Tech NUS, Inc. (T010)	Project:	Navy Fuel Depot CTO JM46
Calibration:	1275001	Instrument:	GL-ECD3
Matrix:	Water	Calibration Dates:	8/25/10 3:32 9/28/11 11:24

Compound	Mean RF	RF RSD	Mean RT	RT RSD	Linear r	Quad COD	LIMIT	Q
Aroclor-1016 (4) [2C]	564.1648	9.203863	7.0255	1.962031E-02			20	
Aroclor-1016 (5) [2C]	602.4543	12.46637	7.127167	1.716239E-02			20	
Aroclor-1221	347.4893	9.924339	5.7135	4.536247E-02			20	
Aroclor-1221 (1)	784.7269	6.504846	5.7135	4.536247E-02			20	
Aroclor-1221 (2)	269.6566	18.92312	4.818833	5.276151E-02			20	
Aroclor-1221 (3)	135.5996	17.55865	5.322	5.949774E-02			20	
Aroclor-1221 (4)	333.9765	8.476765	5.551167	5.769338E-02			20	
Aroclor-1221 (5)	213.4872	10.62871	5.638167	4.761936E-02			20	
Aroclor-1221 [2C]	371.6894	17.28238	4.621167	2.395263E-02			20	
Aroclor-1221 (1) [2C]	804.8998	16.47422	4.621167	2.395263E-02			20	
Aroclor-1221 (2) [2C]	293.1126	23.90633	3.882667	0.0386834			20	*
Aroclor-1221 (3) [2C]	145.5011	17.6839	4.319833	2.417878E-02			20	
Aroclor-1221 (4) [2C]	382.9177	14.30278	4.487667	2.750918E-02			20	
Aroclor-1221 (5) [2C]	232.0156	16.46603	4.557667	2.353323E-02			20	
Aroclor-1242	791.4603	6.481551	7.114	2.068065E-02			20	
Aroclor-1242 (1)	1175.404	3.172852	6.611	5.346339E-02			20	
Aroclor-1242 (2)	739.2291	6.648799	6.2935	1.573445E-02			20	
Aroclor-1242 (3)	828.5963	18.00172	6.782333	3.062254E-02			20	
Aroclor-1242 (4)	598.9812	11.70324	6.888667	2.426782E-02			20	
Aroclor-1242 (5)	615.0907	8.397498	7.114	2.068065E-02			20	
Aroclor-1242 [2C]	874.1401	14.34553	6.077667	0.0297564			20	
Aroclor-1242 (1) [2C]	1245.915	14.42601	5.314833	9.833187E-03			20	
Aroclor-1242 (2) [2C]	485.7606	15.86386	4.645833	2.298644E-02			20	
Aroclor-1242 (3) [2C]	900.7638	12.44385	5.294	1.873726E-02			20	
Aroclor-1242 (4) [2C]	940.3279	15.74699	5.353667	2.229515E-02			20	
Aroclor-1242 (5) [2C]	797.9339	14.08717	6.077667	0.0297564			20	
Aroclor-1254	1699.168	13.59019	8.539667	5.502189E-02			20	
Aroclor-1254 (1)	2292.719	11.30072	7.694333	6.199653E-02			20	
Aroclor-1254 (2)	693.5489	17.38971	6.3965	0.0218992			20	
Aroclor-1254 (3)	2066.051	13.71531	7.2715	3.150532E-02			20	
Aroclor-1254 (4)	1446.243	8.570629	8.046	0.1017325			20	
Aroclor-1254 (5)	1997.279	19.8671	8.539667	5.502189E-02			20	

INITIAL CALIBRATION DATA (Continued)

SW8082A

Laboratory:	Empirical Laboratories, LLC	SDG:	1109191
Client:	Tetra Tech NUS, Inc. (T010)	Project:	Navy Fuel Depot CTO JM46
Calibration:	1275001	Instrument:	GL-ECD3
Matrix:	Water	Calibration Dates:	8/25/10 3:32 9/28/11 11:24

Compound	Mean RF	RF RSD	Mean RT	RT RSD	Linear r	Quad COD	LIMIT	Q
Aroclor-1254 [2C]	1693.787	17.00119	6.932	3.953441E-02	0.9985235		0.995	
Aroclor-1254 (1) [2C]	1952.343	15.96792	6.223667	3.746303E-02	0.9982718		0.995	
Aroclor-1254 (2) [2C]	1830.507	20.19465	5.678667	2.516689E-02	0.9983385		0.995	
Aroclor-1254 (3) [2C]	1494.541	19.31069	5.844167	0.0256865	0.9985135		0.995	
Aroclor-1254 (4) [2C]	1378.73	12.30654	6.498167	7.342451E-02	0.9995308		0.995	
Aroclor-1254 (5) [2C]	1812.815	19.04287	6.932	3.953441E-02	0.9942367		0.995	*
Aroclor-1260	2017.218	7.406798	12.24983	7.414517E-03			20	
Aroclor-1260 (1)	3590.617	7.233293	11.12617	0.0147834			20	
Aroclor-1260 (2)	1927.506	8.219695	9.969333	9.563524E-03			20	
Aroclor-1260 (3)	2089.305	7.178012	10.32783	2.378826E-03			20	
Aroclor-1260 (4)	1485.512	7.669346	10.43333	3.956388E-03			20	
Aroclor-1260 (5)	993.153	12.28537	12.24983	7.414517E-03			20	
Aroclor-1260 [2C]	1652.073	10.01034	9.996833	7.67908E-03			20	
Aroclor-1260 (1) [2C]	2610.749	8.357481	9.996833	7.67908E-03			20	
Aroclor-1260 (2) [2C]	1521.312	11.53059	8.870667	1.242484E-02			20	
Aroclor-1260 (3) [2C]	1413.996	11.9452	9.066833	1.194378E-02			20	
Aroclor-1260 (4) [2C]	1565.017	10.16091	9.292167	1.667907E-02			20	
Aroclor-1260 (5) [2C]	1149.291	9.67878	9.679667	1.23889E-03			20	
Aroclor-1268	4950.131	5.884554	11.3085	1.188354E-02			20	
Aroclor-1268 (1)	10633.26	7.456442	11.3085	1.188354E-02			20	
Aroclor-1268 (2)	4906.048	5.456476	10.2125	1.012895E-02			20	
Aroclor-1268 (3)	4157.727	4.834059	10.31367	0.0165684			20	
Aroclor-1268 (4)	3544.431	4.935248	10.54033	0.0108443			20	
Aroclor-1268 (5)	1509.183	4.2704	10.9575	1.378519E-02			20	
Aroclor-1268 [2C]	2609.566	9.647623	9.6885	5.674121E-03			20	
Aroclor-1268 (1) [2C]	5435.372	9.304561	9.6885	5.674121E-03			20	
Aroclor-1268 (2) [2C]	2529.701	10.17003	8.657166	1.145883E-02			20	
Aroclor-1268 (3) [2C]	2239.34	9.177625	8.736334	9.409822E-03			20	
Aroclor-1268 (4) [2C]	1942.012	10.40219	8.974167	8.895803E-03			20	
Aroclor-1268 (5) [2C]	901.405	10.01399	9.357	1.944801E-02			20	
Tetrachloro-m-xylene	35686.53	2.292184	5.777428	2.481516E-02			20	
Tetrachloro-m-xylene [2C]	35149.92	7.765948	5.115286	2.109323E-02			20	

INITIAL CALIBRATION DATA (Continued)

SW8082A

Laboratory:	Empirical Laboratories, LLC	SDG:	1109191
Client:	Tetra Tech NUS, Inc. (T010)	Project:	Navy Fuel Depot CTO JM46
Calibration:	1275001	Instrument:	GL-ECD3
Matrix:	Water	Calibration Dates:	8/25/10 3:32 9/28/11 11:24

Compound	Mean RF	RF RSD	Mean RT	RT RSD	Linear r	Quad COD	LIMIT	Q
Decachlorobiphenyl	36329.22	8.538561	12.22557	0.0208356			20	
Decachlorobiphenyl [2C]	29268.66	12.81874	11.13771	3.591167E-03			20	

INITIAL CALIBRATION DATA

SW8082A

Laboratory:	Empirical Laboratories, LLC	SDG:	1109191
Client:	Tetra Tech NUS, Inc. (T010)	Project:	Navy Fuel Depot CTO JM46
Calibration:	1277003	Instrument:	GL-ECD3
Matrix:	Water	Calibration Dates:	11/24/10 20:08 9/30/11 11:18

Compound	Level 01		Level 02		Level 03		Level 04		Level 05		Level 06	
	ug/L	RF	ug/L	RF	ug/L	RF	ug/L	RF	ug/L	RF	ug/L	RF
Aroclor-1016												
Aroclor-1016 (1)												
Aroclor-1016 (2)												
Aroclor-1016 (3)												
Aroclor-1016 (4)												
Aroclor-1016 (5)												
Aroclor-1016 [2C]												
Aroclor-1016 (1) [2C]												
Aroclor-1016 (2) [2C]												
Aroclor-1016 (3) [2C]												
Aroclor-1016 (4) [2C]												
Aroclor-1016 (5) [2C]												
Aroclor-1221												
Aroclor-1221 (1)												
Aroclor-1221 (2)												
Aroclor-1221 (3)												
Aroclor-1221 (4)												
Aroclor-1221 (5)												
Aroclor-1221 [2C]												
Aroclor-1221 (1) [2C]												
Aroclor-1221 (2) [2C]												
Aroclor-1221 (3) [2C]												
Aroclor-1221 (4) [2C]												
Aroclor-1221 (5) [2C]												
Aroclor-1242												
Aroclor-1242 (1)												
Aroclor-1242 (2)												
Aroclor-1242 (3)												
Aroclor-1242 (4)												
Aroclor-1242 (5)												
Aroclor-1242 [2C]												

INITIAL CALIBRATION DATA

SW8082A

Laboratory:	Empirical Laboratories, LLC	SDG:	1109191
Client:	Tetra Tech NUS, Inc. (T010)	Project:	Navy Fuel Depot CTO JM46
Calibration:	1277003	Instrument:	GL-ECD3
Matrix:	Water	Calibration Dates:	11/24/10 20:08 9/30/11 11:18

Compound	Level 01		Level 02		Level 03		Level 04		Level 05		Level 06	
	ug/L	RF	ug/L	RF	ug/L	RF	ug/L	RF	ug/L	RF	ug/L	RF
Aroclor-1242 (1) [2C]												
Aroclor-1242 (2) [2C]												
Aroclor-1242 (3) [2C]												
Aroclor-1242 (4) [2C]												
Aroclor-1242 (5) [2C]												
Aroclor-1254												
Aroclor-1254 (1)												
Aroclor-1254 (2)												
Aroclor-1254 (3)												
Aroclor-1254 (4)												
Aroclor-1254 (5)												
Aroclor-1254 [2C]												
Aroclor-1254 (1) [2C]												
Aroclor-1254 (2) [2C]												
Aroclor-1254 (3) [2C]												
Aroclor-1254 (4) [2C]												
Aroclor-1254 (5) [2C]												
Aroclor-1260												
Aroclor-1260 (1)												
Aroclor-1260 (2)												
Aroclor-1260 (3)												
Aroclor-1260 (4)												
Aroclor-1260 (5)												
Aroclor-1260 [2C]												
Aroclor-1260 (1) [2C]												
Aroclor-1260 (2) [2C]												
Aroclor-1260 (3) [2C]												
Aroclor-1260 (4) [2C]												
Aroclor-1260 (5) [2C]												
Aroclor-1268												
Aroclor-1268 (1)												

INITIAL CALIBRATION DATA

SW8082A

Laboratory:	Empirical Laboratories, LLC	SDG:	1109191
Client:	Tetra Tech NUS, Inc. (T010)	Project:	Navy Fuel Depot CTO JM46
Calibration:	1277003	Instrument:	GL-ECD3
Matrix:	Water	Calibration Dates:	11/24/10 20:08 9/30/11 11:18

Compound	Level 01		Level 02		Level 03		Level 04		Level 05		Level 06	
	ug/L	RF	ug/L	RF	ug/L	RF	ug/L	RF	ug/L	RF	ug/L	RF
Aroclor-1268 (2)												
Aroclor-1268 (3)												
Aroclor-1268 (4)												
Aroclor-1268 (5)												
Aroclor-1268 [2C]												
Aroclor-1268 (1) [2C]												
Aroclor-1268 (2) [2C]												
Aroclor-1268 (3) [2C]												
Aroclor-1268 (4) [2C]												
Aroclor-1268 (5) [2C]												
Tetrachloro-m-xylene	200	38106.29	100	37581.37	50	36962.48	25	37949.2	10	36755.6	5	35353
Tetrachloro-m-xylene [2C]	200	31738.79	100	33692.32	50	34968.94	25	37009.72	10	37847.6	5	37074.8
Decachlorobiphenyl	200	35647.94	100	34447.06	50	34026.18	25	34903.36	10	35790.3	5	36222.6
Decachlorobiphenyl [2C]	200	26149.9	100	26407.68	50	26939.58	25	28082.16	10	29359.1	5	30235.4
Aroclor-1016												
Aroclor-1016 (1)												
Aroclor-1016 (2)												
Aroclor-1016 (3)												
Aroclor-1016 (4)												
Aroclor-1016 (5)												
Aroclor-1016 [2C]												
Aroclor-1016 (1) [2C]												
Aroclor-1016 (2) [2C]												
Aroclor-1016 (3) [2C]												
Aroclor-1016 (4) [2C]												
Aroclor-1016 (5) [2C]												
Aroclor-1221												
Aroclor-1221 (1)												
Aroclor-1221 (2)												
Aroclor-1221 (3)												
Aroclor-1221 (4)												

INITIAL CALIBRATION DATA

SW8082A

Laboratory:	Empirical Laboratories, LLC	SDG:	1109191
Client:	Tetra Tech NUS, Inc. (T010)	Project:	Navy Fuel Depot CTO JM46
Calibration:	1277003	Instrument:	GL-ECD3
Matrix:	Water	Calibration Dates:	11/24/10 20:08 9/30/11 11:18

Compound	Level 01		Level 02		Level 03		Level 04		Level 05		Level 06	
	ug/L	RF	ug/L	RF	ug/L	RF	ug/L	RF	ug/L	RF	ug/L	RF
Aroclor-1221 (5)												
Aroclor-1221 [2C]												
Aroclor-1221 (1) [2C]												
Aroclor-1221 (2) [2C]												
Aroclor-1221 (3) [2C]												
Aroclor-1221 (4) [2C]												
Aroclor-1221 (5) [2C]												
Aroclor-1242												
Aroclor-1242 (1)												
Aroclor-1242 (2)												
Aroclor-1242 (3)												
Aroclor-1242 (4)												
Aroclor-1242 (5)												
Aroclor-1242 [2C]												
Aroclor-1242 (1) [2C]												
Aroclor-1242 (2) [2C]												
Aroclor-1242 (3) [2C]												
Aroclor-1242 (4) [2C]												
Aroclor-1242 (5) [2C]												
Aroclor-1254												
Aroclor-1254 (1)												
Aroclor-1254 (2)												
Aroclor-1254 (3)												
Aroclor-1254 (4)												
Aroclor-1254 (5)												
Aroclor-1254 [2C]												
Aroclor-1254 (1) [2C]												
Aroclor-1254 (2) [2C]												
Aroclor-1254 (3) [2C]												
Aroclor-1254 (4) [2C]												
Aroclor-1254 (5) [2C]												

INITIAL CALIBRATION DATA

SW8082A

Laboratory:	Empirical Laboratories, LLC	SDG:	1109191
Client:	Tetra Tech NUS, Inc. (T010)	Project:	Navy Fuel Depot CTO JM46
Calibration:	1277003	Instrument:	GL-ECD3
Matrix:	Water	Calibration Dates:	11/24/10 20:08 9/30/11 11:18

Compound	Level 01		Level 02		Level 03		Level 04		Level 05		Level 06	
	ug/L	RF	ug/L	RF	ug/L	RF	ug/L	RF	ug/L	RF	ug/L	RF
Aroclor-1260												
Aroclor-1260 (1)												
Aroclor-1260 (2)												
Aroclor-1260 (3)												
Aroclor-1260 (4)												
Aroclor-1260 (5)												
Aroclor-1260 [2C]												
Aroclor-1260 (1) [2C]												
Aroclor-1260 (2) [2C]												
Aroclor-1260 (3) [2C]												
Aroclor-1260 (4) [2C]												
Aroclor-1260 (5) [2C]												
Aroclor-1268												
Aroclor-1268 (1)												
Aroclor-1268 (2)												
Aroclor-1268 (3)												
Aroclor-1268 (4)												
Aroclor-1268 (5)												
Aroclor-1268 [2C]												
Aroclor-1268 (1) [2C]												
Aroclor-1268 (2) [2C]												
Aroclor-1268 (3) [2C]												
Aroclor-1268 (4) [2C]												
Aroclor-1268 (5) [2C]												
Tetrachloro-m-xylene	200	38106.29	100	37581.37	50	36962.48	25	37949.2	10	36755.6	5	35353
Tetrachloro-m-xylene [2C]	200	31738.79	100	33692.32	50	34968.94	25	37009.72	10	37847.6	5	37074.8
Decachlorobiphenyl	200	35647.94	100	34447.06	50	34026.18	25	34903.36	10	35790.3	5	36222.6
Decachlorobiphenyl [2C]	200	26149.9	100	26407.68	50	26939.58	25	28082.16	10	29359.1	5	30235.4

INITIAL CALIBRATION DATA (Continued)

SW8082A

Laboratory:	Empirical Laboratories, LLC	SDG:	1109191
Client:	Tetra Tech NUS, Inc. (T010)	Project:	Navy Fuel Depot CTO JM46
Calibration:	1277003	Instrument:	GL-ECD3
Matrix:	Water	Calibration Dates:	11/24/10 20:08 9/30/11 11:18

Compound	Level 07		Level 08		Level 09		Level 10		Level 11		Level 12	
	ug/L	RF	ug/L	RF	ug/L	RF	ug/L	RF	ug/L	RF	ug/L	RF
Aroclor-1016												
Aroclor-1016 (1)												
Aroclor-1016 (2)												
Aroclor-1016 (3)												
Aroclor-1016 (4)												
Aroclor-1016 (5)												
Aroclor-1016 [2C]												
Aroclor-1016 (1) [2C]												
Aroclor-1016 (2) [2C]												
Aroclor-1016 (3) [2C]												
Aroclor-1016 (4) [2C]												
Aroclor-1016 (5) [2C]												
Aroclor-1221												
Aroclor-1221 (1)												
Aroclor-1221 (2)												
Aroclor-1221 (3)												
Aroclor-1221 (4)												
Aroclor-1221 (5)												
Aroclor-1221 [2C]												
Aroclor-1221 (1) [2C]												
Aroclor-1221 (2) [2C]												
Aroclor-1221 (3) [2C]												
Aroclor-1221 (4) [2C]												
Aroclor-1221 (5) [2C]												
Aroclor-1242												
Aroclor-1242 (1)												
Aroclor-1242 (2)												
Aroclor-1242 (3)												
Aroclor-1242 (4)												
Aroclor-1242 (5)												
Aroclor-1242 [2C]												

INITIAL CALIBRATION DATA (Continued)

SW8082A

Laboratory:	Empirical Laboratories, LLC	SDG:	1109191
Client:	Tetra Tech NUS, Inc. (T010)	Project:	Navy Fuel Depot CTO JM46
Calibration:	1277003	Instrument:	GL-ECD3
Matrix:	Water	Calibration Dates:	11/24/10 20:08 9/30/11 11:18

Compound	Level 07		Level 08		Level 09		Level 10		Level 11		Level 12	
	ug/L	RF	ug/L	RF	ug/L	RF	ug/L	RF	ug/L	RF	ug/L	RF
Aroclor-1242 (1) [2C]												
Aroclor-1242 (2) [2C]												
Aroclor-1242 (3) [2C]												
Aroclor-1242 (4) [2C]												
Aroclor-1242 (5) [2C]												
Aroclor-1254												
Aroclor-1254 (1)												
Aroclor-1254 (2)												
Aroclor-1254 (3)												
Aroclor-1254 (4)												
Aroclor-1254 (5)												
Aroclor-1254 [2C]												
Aroclor-1254 (1) [2C]												
Aroclor-1254 (2) [2C]												
Aroclor-1254 (3) [2C]												
Aroclor-1254 (4) [2C]												
Aroclor-1254 (5) [2C]												
Aroclor-1260												
Aroclor-1260 (1)												
Aroclor-1260 (2)												
Aroclor-1260 (3)												
Aroclor-1260 (4)												
Aroclor-1260 (5)												
Aroclor-1260 [2C]												
Aroclor-1260 (1) [2C]												
Aroclor-1260 (2) [2C]												
Aroclor-1260 (3) [2C]												
Aroclor-1260 (4) [2C]												
Aroclor-1260 (5) [2C]												
Aroclor-1268												
Aroclor-1268 (1)												

INITIAL CALIBRATION DATA (Continued)

SW8082A

Laboratory:	Empirical Laboratories, LLC		SDG:	1109191	
Client:	Tetra Tech NUS, Inc. (T010)		Project:	Navy Fuel Depot CTO JM46	
Calibration:	1277003		Instrument:	GL-ECD3	
Matrix:	Water		Calibration Dates:	11/24/10 20:08	9/30/11 11:18

Compound	Level 07		Level 08		Level 09		Level 10		Level 11		Level 12	
	ug/L	RF	ug/L	RF	ug/L	RF	ug/L	RF	ug/L	RF	ug/L	RF
Aroclor-1268 (2)												
Aroclor-1268 (3)												
Aroclor-1268 (4)												
Aroclor-1268 (5)												
Aroclor-1268 [2C]												
Aroclor-1268 (1) [2C]												
Aroclor-1268 (2) [2C]												
Aroclor-1268 (3) [2C]												
Aroclor-1268 (4) [2C]												
Aroclor-1268 (5) [2C]												
Tetrachloro-m-xylene	1	41012										
Tetrachloro-m-xylene [2C]	1	45751										
Decachlorobiphenyl	1	50907										
Decachlorobiphenyl [2C]	1	44181										
Aroclor-1016												
Aroclor-1016 (1)												
Aroclor-1016 (2)												
Aroclor-1016 (3)												
Aroclor-1016 (4)												
Aroclor-1016 (5)												
Aroclor-1016 [2C]												
Aroclor-1016 (1) [2C]												
Aroclor-1016 (2) [2C]												
Aroclor-1016 (3) [2C]												
Aroclor-1016 (4) [2C]												
Aroclor-1016 (5) [2C]												
Aroclor-1221												
Aroclor-1221 (1)												
Aroclor-1221 (2)												
Aroclor-1221 (3)												
Aroclor-1221 (4)												

INITIAL CALIBRATION DATA (Continued)

SW8082A

Laboratory:	Empirical Laboratories, LLC		SDG:	1109191	
Client:	Tetra Tech NUS, Inc. (T010)		Project:	Navy Fuel Depot CTO JM46	
Calibration:	1277003		Instrument:	GL-ECD3	
Matrix:	Water		Calibration Dates:	11/24/10 20:08	9/30/11 11:18

Compound	Level 07		Level 08		Level 09		Level 10		Level 11		Level 12	
	ug/L	RF	ug/L	RF	ug/L	RF	ug/L	RF	ug/L	RF	ug/L	RF
Aroclor-1221 (5)												
Aroclor-1221 [2C]												
Aroclor-1221 (1) [2C]												
Aroclor-1221 (2) [2C]												
Aroclor-1221 (3) [2C]												
Aroclor-1221 (4) [2C]												
Aroclor-1221 (5) [2C]												
Aroclor-1242												
Aroclor-1242 (1)												
Aroclor-1242 (2)												
Aroclor-1242 (3)												
Aroclor-1242 (4)												
Aroclor-1242 (5)												
Aroclor-1242 [2C]												
Aroclor-1242 (1) [2C]												
Aroclor-1242 (2) [2C]												
Aroclor-1242 (3) [2C]												
Aroclor-1242 (4) [2C]												
Aroclor-1242 (5) [2C]												
Aroclor-1254												
Aroclor-1254 (1)												
Aroclor-1254 (2)												
Aroclor-1254 (3)												
Aroclor-1254 (4)												
Aroclor-1254 (5)												
Aroclor-1254 [2C]												
Aroclor-1254 (1) [2C]												
Aroclor-1254 (2) [2C]												
Aroclor-1254 (3) [2C]												
Aroclor-1254 (4) [2C]												
Aroclor-1254 (5) [2C]												

INITIAL CALIBRATION DATA (Continued)

SW8082A

Laboratory:	Empirical Laboratories, LLC		SDG:	1109191	
Client:	Tetra Tech NUS, Inc. (T010)		Project:	Navy Fuel Depot CTO JM46	
Calibration:	1277003		Instrument:	GL-ECD3	
Matrix:	Water		Calibration Dates:	11/24/10 20:08	9/30/11 11:18

Compound	Level 07		Level 08		Level 09		Level 10		Level 11		Level 12	
	ug/L	RF	ug/L	RF	ug/L	RF	ug/L	RF	ug/L	RF	ug/L	RF
Aroclor-1260												
Aroclor-1260 (1)												
Aroclor-1260 (2)												
Aroclor-1260 (3)												
Aroclor-1260 (4)												
Aroclor-1260 (5)												
Aroclor-1260 [2C]												
Aroclor-1260 (1) [2C]												
Aroclor-1260 (2) [2C]												
Aroclor-1260 (3) [2C]												
Aroclor-1260 (4) [2C]												
Aroclor-1260 (5) [2C]												
Aroclor-1268												
Aroclor-1268 (1)												
Aroclor-1268 (2)												
Aroclor-1268 (3)												
Aroclor-1268 (4)												
Aroclor-1268 (5)												
Aroclor-1268 [2C]												
Aroclor-1268 (1) [2C]												
Aroclor-1268 (2) [2C]												
Aroclor-1268 (3) [2C]												
Aroclor-1268 (4) [2C]												
Aroclor-1268 (5) [2C]												
Tetrachloro-m-xylene	1	41012										
Tetrachloro-m-xylene [2C]	1	45751										
Decachlorobiphenyl	1	50907										
Decachlorobiphenyl [2C]	1	44181										

INITIAL CALIBRATION DATA (Continued)

SW8082A

Laboratory:	Empirical Laboratories, LLC	SDG:	1109191	
Client:	Tetra Tech NUS, Inc. (T010)	Project:	Navy Fuel Depot CTO JM46	
Calibration:	1277003	Instrument:	GL-ECD3	
Matrix:	Water	Calibration Dates:	11/24/10 20:08	9/30/11 11:18

Compound	Level 13		Level 14		Level 15		Level 16		Level 17		Level 18	
	ug/L	RF	ug/L	RF	ug/L	RF	ug/L	RF	ug/L	RF	ug/L	RF
Aroclor-1016												
Aroclor-1016 (1)												
Aroclor-1016 (2)												
Aroclor-1016 (3)												
Aroclor-1016 (4)												
Aroclor-1016 (5)												
Aroclor-1016 [2C]												
Aroclor-1016 (1) [2C]												
Aroclor-1016 (2) [2C]												
Aroclor-1016 (3) [2C]												
Aroclor-1016 (4) [2C]												
Aroclor-1016 (5) [2C]												
Aroclor-1221												
Aroclor-1221 (1)												
Aroclor-1221 (2)												
Aroclor-1221 (3)												
Aroclor-1221 (4)												
Aroclor-1221 (5)												
Aroclor-1221 [2C]												
Aroclor-1221 (1) [2C]												
Aroclor-1221 (2) [2C]												
Aroclor-1221 (3) [2C]												
Aroclor-1221 (4) [2C]												
Aroclor-1221 (5) [2C]												
Aroclor-1242												
Aroclor-1242 (1)												
Aroclor-1242 (2)												
Aroclor-1242 (3)												
Aroclor-1242 (4)												
Aroclor-1242 (5)												
Aroclor-1242 [2C]												

INITIAL CALIBRATION DATA (Continued)

SW8082A

Laboratory:	Empirical Laboratories, LLC	SDG:	1109191	
Client:	Tetra Tech NUS, Inc. (T010)	Project:	Navy Fuel Depot CTO JM46	
Calibration:	1277003	Instrument:	GL-ECD3	
Matrix:	Water	Calibration Dates:	11/24/10 20:08	9/30/11 11:18

Compound	Level 13		Level 14		Level 15		Level 16		Level 17		Level 18	
	ug/L	RF	ug/L	RF	ug/L	RF	ug/L	RF	ug/L	RF	ug/L	RF
Aroclor-1242 (1) [2C]												
Aroclor-1242 (2) [2C]												
Aroclor-1242 (3) [2C]												
Aroclor-1242 (4) [2C]												
Aroclor-1242 (5) [2C]												
Aroclor-1254												
Aroclor-1254 (1)												
Aroclor-1254 (2)												
Aroclor-1254 (3)												
Aroclor-1254 (4)												
Aroclor-1254 (5)												
Aroclor-1254 [2C]												
Aroclor-1254 (1) [2C]												
Aroclor-1254 (2) [2C]												
Aroclor-1254 (3) [2C]												
Aroclor-1254 (4) [2C]												
Aroclor-1254 (5) [2C]												
Aroclor-1260												
Aroclor-1260 (1)												
Aroclor-1260 (2)												
Aroclor-1260 (3)												
Aroclor-1260 (4)												
Aroclor-1260 (5)												
Aroclor-1260 [2C]												
Aroclor-1260 (1) [2C]												
Aroclor-1260 (2) [2C]												
Aroclor-1260 (3) [2C]												
Aroclor-1260 (4) [2C]												
Aroclor-1260 (5) [2C]												
Aroclor-1268												
Aroclor-1268 (1)												

INITIAL CALIBRATION DATA (Continued)

SW8082A

Laboratory:	Empirical Laboratories, LLC		SDG:	1109191	
Client:	Tetra Tech NUS, Inc. (T010)		Project:	Navy Fuel Depot CTO JM46	
Calibration:	1277003		Instrument:	GL-ECD3	
Matrix:	Water		Calibration Dates:	11/24/10 20:08	9/30/11 11:18

Compound	Level 13		Level 14		Level 15		Level 16		Level 17		Level 18	
	ug/L	RF	ug/L	RF	ug/L	RF	ug/L	RF	ug/L	RF	ug/L	RF
Aroclor-1268 (2)												
Aroclor-1268 (3)												
Aroclor-1268 (4)												
Aroclor-1268 (5)												
Aroclor-1268 [2C]												
Aroclor-1268 (1) [2C]												
Aroclor-1268 (2) [2C]												
Aroclor-1268 (3) [2C]												
Aroclor-1268 (4) [2C]												
Aroclor-1268 (5) [2C]												
Tetrachloro-m-xylene												
Tetrachloro-m-xylene [2C]												
Decachlorobiphenyl												
Decachlorobiphenyl [2C]												
Aroclor-1016												
Aroclor-1016 (1)												
Aroclor-1016 (2)												
Aroclor-1016 (3)												
Aroclor-1016 (4)												
Aroclor-1016 (5)												
Aroclor-1016 [2C]												
Aroclor-1016 (1) [2C]												
Aroclor-1016 (2) [2C]												
Aroclor-1016 (3) [2C]												
Aroclor-1016 (4) [2C]												
Aroclor-1016 (5) [2C]												
Aroclor-1221												
Aroclor-1221 (1)												
Aroclor-1221 (2)												
Aroclor-1221 (3)												
Aroclor-1221 (4)												

INITIAL CALIBRATION DATA (Continued)

SW8082A

Laboratory:	Empirical Laboratories, LLC		SDG:	1109191	
Client:	Tetra Tech NUS, Inc. (T010)		Project:	Navy Fuel Depot CTO JM46	
Calibration:	1277003		Instrument:	GL-ECD3	
Matrix:	Water		Calibration Dates:	11/24/10 20:08	9/30/11 11:18

Compound	Level 13		Level 14		Level 15		Level 16		Level 17		Level 18	
	ug/L	RF	ug/L	RF	ug/L	RF	ug/L	RF	ug/L	RF	ug/L	RF
Aroclor-1221 (5)												
Aroclor-1221 [2C]												
Aroclor-1221 (1) [2C]												
Aroclor-1221 (2) [2C]												
Aroclor-1221 (3) [2C]												
Aroclor-1221 (4) [2C]												
Aroclor-1221 (5) [2C]												
Aroclor-1242												
Aroclor-1242 (1)												
Aroclor-1242 (2)												
Aroclor-1242 (3)												
Aroclor-1242 (4)												
Aroclor-1242 (5)												
Aroclor-1242 [2C]												
Aroclor-1242 (1) [2C]												
Aroclor-1242 (2) [2C]												
Aroclor-1242 (3) [2C]												
Aroclor-1242 (4) [2C]												
Aroclor-1242 (5) [2C]												
Aroclor-1254												
Aroclor-1254 (1)												
Aroclor-1254 (2)												
Aroclor-1254 (3)												
Aroclor-1254 (4)												
Aroclor-1254 (5)												
Aroclor-1254 [2C]												
Aroclor-1254 (1) [2C]												
Aroclor-1254 (2) [2C]												
Aroclor-1254 (3) [2C]												
Aroclor-1254 (4) [2C]												
Aroclor-1254 (5) [2C]												

INITIAL CALIBRATION DATA (Continued)

SW8082A

Laboratory:	Empirical Laboratories, LLC		SDG:	1109191	
Client:	Tetra Tech NUS, Inc. (T010)		Project:	Navy Fuel Depot CTO JM46	
Calibration:	1277003		Instrument:	GL-ECD3	
Matrix:	Water		Calibration Dates:	11/24/10 20:08	9/30/11 11:18

Compound	Level 13		Level 14		Level 15		Level 16		Level 17		Level 18	
	ug/L	RF	ug/L	RF	ug/L	RF	ug/L	RF	ug/L	RF	ug/L	RF
Aroclor-1260												
Aroclor-1260 (1)												
Aroclor-1260 (2)												
Aroclor-1260 (3)												
Aroclor-1260 (4)												
Aroclor-1260 (5)												
Aroclor-1260 [2C]												
Aroclor-1260 (1) [2C]												
Aroclor-1260 (2) [2C]												
Aroclor-1260 (3) [2C]												
Aroclor-1260 (4) [2C]												
Aroclor-1260 (5) [2C]												
Aroclor-1268												
Aroclor-1268 (1)												
Aroclor-1268 (2)												
Aroclor-1268 (3)												
Aroclor-1268 (4)												
Aroclor-1268 (5)												
Aroclor-1268 [2C]												
Aroclor-1268 (1) [2C]												
Aroclor-1268 (2) [2C]												
Aroclor-1268 (3) [2C]												
Aroclor-1268 (4) [2C]												
Aroclor-1268 (5) [2C]												
Tetrachloro-m-xylene												
Tetrachloro-m-xylene [2C]												
Decachlorobiphenyl												
Decachlorobiphenyl [2C]												

INITIAL CALIBRATION DATA (Continued)

SW8082A

Laboratory:	Empirical Laboratories, LLC	SDG:	1109191
Client:	Tetra Tech NUS, Inc. (T010)	Project:	Navy Fuel Depot CTO JM46
Calibration:	1277003	Instrument:	GL-ECD3
Matrix:	Water	Calibration Dates:	11/24/10 20:08 9/30/11 11:18

Compound	Level 19		Level 20		Level 21		Level 22		Level 23		Level 24	
	ug/L	RF	ug/L	RF	ug/L	RF	ug/L	RF	ug/L	RF	ug/L	RF
Aroclor-1016			2500	860.6652	1000	875.372	750	908.7672	500	829.4572	100	1135.448
Aroclor-1016 (1)			2500	1375.678	1000	1408.098	750	1461.193	500	1385.924	100	2268.24
Aroclor-1016 (2)			2500	665.7848	1000	679.648	750	705.5933	500	641.482	100	777.04
Aroclor-1016 (3)			2500	653.702	1000	666.611	750	695.4987	500	622.586	100	788.29
Aroclor-1016 (4)			2500	954.1548	1000	965.136	750	1008.304	500	891.156	100	1107.21
Aroclor-1016 (5)			2500	654.006	1000	657.367	750	673.2466	500	606.138	100	736.46
Aroclor-1016 [2C]			2500	637.8428	1000	680.1046	750	708.3155	500	655.5008	100	820.662
Aroclor-1016 (1) [2C]			2500	889.7404	1000	983.591	750	1040.328	500	922.628	100	1205.4
Aroclor-1016 (2) [2C]			2500	509.9408	1000	541.603	750	561.4106	500	519.366	100	641.95
Aroclor-1016 (3) [2C]			2500	747.9536	1000	769.929	750	791.5814	500	774.622	100	942.39
Aroclor-1016 (4) [2C]			2500	506.4076	1000	543.243	750	564.46	500	519.338	100	633.1
Aroclor-1016 (5) [2C]			2500	535.1712	1000	562.157	750	583.7974	500	541.55	100	680.47
Aroclor-1221												
Aroclor-1221 (1)												
Aroclor-1221 (2)												
Aroclor-1221 (3)												
Aroclor-1221 (4)												
Aroclor-1221 (5)												
Aroclor-1221 [2C]												
Aroclor-1221 (1) [2C]												
Aroclor-1221 (2) [2C]												
Aroclor-1221 (3) [2C]												
Aroclor-1221 (4) [2C]												
Aroclor-1221 (5) [2C]												
Aroclor-1242												
Aroclor-1242 (1)												
Aroclor-1242 (2)												
Aroclor-1242 (3)												
Aroclor-1242 (4)												
Aroclor-1242 (5)												
Aroclor-1242 [2C]												

INITIAL CALIBRATION DATA (Continued)

SW8082A

Laboratory:	Empirical Laboratories, LLC	SDG:	1109191
Client:	Tetra Tech NUS, Inc. (T010)	Project:	Navy Fuel Depot CTO JM46
Calibration:	1277003	Instrument:	GL-ECD3
Matrix:	Water	Calibration Dates:	11/24/10 20:08 9/30/11 11:18

Compound	Level 19		Level 20		Level 21		Level 22		Level 23		Level 24	
	ug/L	RF	ug/L	RF	ug/L	RF	ug/L	RF	ug/L	RF	ug/L	RF
Aroclor-1242 (1) [2C]												
Aroclor-1242 (2) [2C]												
Aroclor-1242 (3) [2C]												
Aroclor-1242 (4) [2C]												
Aroclor-1242 (5) [2C]												
Aroclor-1254												
Aroclor-1254 (1)												
Aroclor-1254 (2)												
Aroclor-1254 (3)												
Aroclor-1254 (4)												
Aroclor-1254 (5)												
Aroclor-1254 [2C]												
Aroclor-1254 (1) [2C]												
Aroclor-1254 (2) [2C]												
Aroclor-1254 (3) [2C]												
Aroclor-1254 (4) [2C]												
Aroclor-1254 (5) [2C]												
Aroclor-1260			2500	2082.993	1000	2035.188	750	2046.887	500	1720.375	100	2084.956
Aroclor-1260 (1)			2500	3833.414	1000	3683.304	750	3675.605	500	3082.456	100	3649.22
Aroclor-1260 (2)			2500	1916	1000	1893.477	750	1921.672	500	1659.208	100	2063.82
Aroclor-1260 (3)			2500	2163.115	1000	2124.221	750	2147.044	500	1784.57	100	2154.42
Aroclor-1260 (4)			2500	1514.934	1000	1499.595	750	1518.699	500	1259.214	100	1547.43
Aroclor-1260 (5)			2500	987.5016	1000	975.345	750	971.4133	500	816.428	100	1009.89
Aroclor-1260 [2C]			2500	1522.25	1000	1605.31	750	1650.016	500	1445.249	100	1826.982
Aroclor-1260 (1) [2C]			2500	2457.321	1000	2582.683	750	2639.291	500	2291.97	100	2849.11
Aroclor-1260 (2) [2C]			2500	1367.806	1000	1454.311	750	1503.461	500	1335.036	100	1715.94
Aroclor-1260 (3) [2C]			2500	1278.622	1000	1348.227	750	1393.125	500	1230.484	100	1574.02
Aroclor-1260 (4) [2C]			2500	1442.752	1000	1519.8	750	1565.029	500	1363.782	100	1727.28
Aroclor-1260 (5) [2C]			2500	1064.749	1000	1121.531	750	1149.175	500	1004.972	100	1268.56
Aroclor-1268												
Aroclor-1268 (1)												

INITIAL CALIBRATION DATA (Continued)

SW8082A

Laboratory: Empirical Laboratories, LLC
SDG: 1109191
Client: Tetra Tech NUS, Inc. (T010)
Project: Navy Fuel Depot CTO JM46
Calibration: 1277003
Instrument: GL-ECD3
Matrix: Water
Calibration Dates: 11/24/10 20:08 9/30/11 11:18

Compound	Level 19		Level 20		Level 21		Level 22		Level 23		Level 24	
	ug/L	RF	ug/L	RF	ug/L	RF	ug/L	RF	ug/L	RF	ug/L	RF
Aroclor-1268 (2)												
Aroclor-1268 (3)												
Aroclor-1268 (4)												
Aroclor-1268 (5)												
Aroclor-1268 [2C]												
Aroclor-1268 (1) [2C]												
Aroclor-1268 (2) [2C]												
Aroclor-1268 (3) [2C]												
Aroclor-1268 (4) [2C]												
Aroclor-1268 (5) [2C]												
Tetrachloro-m-xylene			250		100		75		50		10	
Tetrachloro-m-xylene [2C]			250		100		75		50		10	
Decachlorobiphenyl			250		100		75		50		10	
Decachlorobiphenyl [2C]			250		100		75		50		10	
Aroclor-1016			2500	860.6652	1000	875.372	750	908.7672	500	829.4572	100	1135.448
Aroclor-1016 (1)			2500	1375.678	1000	1408.098	750	1461.193	500	1385.924	100	2268.24
Aroclor-1016 (2)			2500	665.7848	1000	679.648	750	705.5933	500	641.482	100	777.04
Aroclor-1016 (3)			2500	653.702	1000	666.611	750	695.4987	500	622.586	100	788.29
Aroclor-1016 (4)			2500	954.1548	1000	965.136	750	1008.304	500	891.156	100	1107.21
Aroclor-1016 (5)			2500	654.006	1000	657.367	750	673.2466	500	606.138	100	736.46
Aroclor-1016 [2C]			2500	637.8428	1000	680.1046	750	708.3155	500	655.5008	100	820.662
Aroclor-1016 (1) [2C]			2500	889.7404	1000	983.591	750	1040.328	500	922.628	100	1205.4
Aroclor-1016 (2) [2C]			2500	509.9408	1000	541.603	750	561.4106	500	519.366	100	641.95
Aroclor-1016 (3) [2C]			2500	747.9536	1000	769.929	750	791.5814	500	774.622	100	942.39
Aroclor-1016 (4) [2C]			2500	506.4076	1000	543.243	750	564.46	500	519.338	100	633.1
Aroclor-1016 (5) [2C]			2500	535.1712	1000	562.157	750	583.7974	500	541.55	100	680.47
Aroclor-1221												
Aroclor-1221 (1)												
Aroclor-1221 (2)												
Aroclor-1221 (3)												
Aroclor-1221 (4)												

INITIAL CALIBRATION DATA (Continued)

SW8082A

Laboratory:	Empirical Laboratories, LLC	SDG:	1109191	
Client:	Tetra Tech NUS, Inc. (T010)	Project:	Navy Fuel Depot CTO JM46	
Calibration:	1277003	Instrument:	GL-ECD3	
Matrix:	Water	Calibration Dates:	11/24/10 20:08	9/30/11 11:18

Compound	Level 19		Level 20		Level 21		Level 22		Level 23		Level 24	
	ug/L	RF	ug/L	RF	ug/L	RF	ug/L	RF	ug/L	RF	ug/L	RF
Aroclor-1221 (5)												
Aroclor-1221 [2C]												
Aroclor-1221 (1) [2C]												
Aroclor-1221 (2) [2C]												
Aroclor-1221 (3) [2C]												
Aroclor-1221 (4) [2C]												
Aroclor-1221 (5) [2C]												
Aroclor-1242												
Aroclor-1242 (1)												
Aroclor-1242 (2)												
Aroclor-1242 (3)												
Aroclor-1242 (4)												
Aroclor-1242 (5)												
Aroclor-1242 [2C]												
Aroclor-1242 (1) [2C]												
Aroclor-1242 (2) [2C]												
Aroclor-1242 (3) [2C]												
Aroclor-1242 (4) [2C]												
Aroclor-1242 (5) [2C]												
Aroclor-1254												
Aroclor-1254 (1)												
Aroclor-1254 (2)												
Aroclor-1254 (3)												
Aroclor-1254 (4)												
Aroclor-1254 (5)												
Aroclor-1254 [2C]												
Aroclor-1254 (1) [2C]												
Aroclor-1254 (2) [2C]												
Aroclor-1254 (3) [2C]												
Aroclor-1254 (4) [2C]												
Aroclor-1254 (5) [2C]												

INITIAL CALIBRATION DATA (Continued)

SW8082A

Laboratory: Empirical Laboratories, LLC
SDG: 1109191
Client: Tetra Tech NUS, Inc. (T010)
Project: Navy Fuel Depot CTO JM46
Calibration: 1277003
Instrument: GL-ECD3
Matrix: Water
Calibration Dates: 11/24/10 20:08 9/30/11 11:18

Compound	Level 19		Level 20		Level 21		Level 22		Level 23		Level 24	
	ug/L	RF	ug/L	RF	ug/L	RF	ug/L	RF	ug/L	RF	ug/L	RF
Aroclor-1260			2500	2082.993	1000	2035.188	750	2046.887	500	1720.375	100	2084.956
Aroclor-1260 (1)			2500	3833.414	1000	3683.304	750	3675.605	500	3082.456	100	3649.22
Aroclor-1260 (2)			2500	1916	1000	1893.477	750	1921.672	500	1659.208	100	2063.82
Aroclor-1260 (3)			2500	2163.115	1000	2124.221	750	2147.044	500	1784.57	100	2154.42
Aroclor-1260 (4)			2500	1514.934	1000	1499.595	750	1518.699	500	1259.214	100	1547.43
Aroclor-1260 (5)			2500	987.5016	1000	975.345	750	971.4133	500	816.428	100	1009.89
Aroclor-1260 [2C]			2500	1522.25	1000	1605.31	750	1650.016	500	1445.249	100	1826.982
Aroclor-1260 (1) [2C]			2500	2457.321	1000	2582.683	750	2639.291	500	2291.97	100	2849.11
Aroclor-1260 (2) [2C]			2500	1367.806	1000	1454.311	750	1503.461	500	1335.036	100	1715.94
Aroclor-1260 (3) [2C]			2500	1278.622	1000	1348.227	750	1393.125	500	1230.484	100	1574.02
Aroclor-1260 (4) [2C]			2500	1442.752	1000	1519.8	750	1565.029	500	1363.782	100	1727.28
Aroclor-1260 (5) [2C]			2500	1064.749	1000	1121.531	750	1149.175	500	1004.972	100	1268.56
Aroclor-1268												
Aroclor-1268 (1)												
Aroclor-1268 (2)												
Aroclor-1268 (3)												
Aroclor-1268 (4)												
Aroclor-1268 (5)												
Aroclor-1268 [2C]												
Aroclor-1268 (1) [2C]												
Aroclor-1268 (2) [2C]												
Aroclor-1268 (3) [2C]												
Aroclor-1268 (4) [2C]												
Aroclor-1268 (5) [2C]												
Tetrachloro-m-xylene			250		100		75		50		10	
Tetrachloro-m-xylene [2C]			250		100		75		50		10	
Decachlorobiphenyl			250		100		75		50		10	
Decachlorobiphenyl [2C]			250		100		75		50		10	

INITIAL CALIBRATION DATA (Continued)

SW8082A

Laboratory: Empirical Laboratories, LLC
SDG: 1109191
Client: Tetra Tech NUS, Inc. (T010)
Project: Navy Fuel Depot CTO JM46
Calibration: 1277003
Instrument: GL-ECD3
Matrix: Water
Calibration Dates: 11/24/10 20:08 9/30/11 11:18

Compound	Level 25		Level 26		Level 27		Level 28		Level 29		Level 30	
	ug/L	RF	ug/L	RF	ug/L	RF	ug/L	RF	ug/L	RF	ug/L	RF
Aroclor-1016	50	1321.756										
Aroclor-1016 (1)	50	3194.3										
Aroclor-1016 (2)	50	790.2										
Aroclor-1016 (3)	50	770.06										
Aroclor-1016 (4)	50	1131.02										
Aroclor-1016 (5)	50	723.2										
Aroclor-1016 [2C]	50	833.188										
Aroclor-1016 (1) [2C]	50	1236.26										
Aroclor-1016 (2) [2C]	50	667.78										
Aroclor-1016 (3) [2C]	50	931.88										
Aroclor-1016 (4) [2C]	50	618.44										
Aroclor-1016 (5) [2C]	50	711.58										
Aroclor-1221			2500	307.532	1000	333.3164	750	320.4096	500	348.046	100	378.792
Aroclor-1221 (1)			2500	728.9236	1000	778.165	750	723.9026	500	802.69	100	824.84
Aroclor-1221 (2)			2500	216.0624	1000	237.462	750	244.3773	500	257.578	100	311.96
Aroclor-1221 (3)			2500	104.058	1000	121.292	750	128.9613	500	132.516	100	159.07
Aroclor-1221 (4)			2500	300.6684	1000	322.243	750	314.2413	500	330.856	100	362.63
Aroclor-1221 (5)			2500	187.9476	1000	207.42	750	190.5653	500	216.59	100	235.46
Aroclor-1221 [2C]			2500	303.3857	1000	330.0778	750	338.3389	500	356.7156	100	437.05
Aroclor-1221 (1) [2C]			2500	664.0104	1000	719.811	750	733.4893	500	776.988	100	935.64
Aroclor-1221 (2) [2C]			2500	223.7604	1000	246.313	750	255.236	500	272.496	100	365.59
Aroclor-1221 (3) [2C]			2500	116.794	1000	128.145	750	134.2013	500	140.266	100	170.86
Aroclor-1221 (4) [2C]			2500	322.6628	1000	347.962	750	355.9413	500	370.24	100	441.34
Aroclor-1221 (5) [2C]			2500	189.7012	1000	208.158	750	212.8267	500	223.588	100	271.82
Aroclor-1242												
Aroclor-1242 (1)												
Aroclor-1242 (2)												
Aroclor-1242 (3)												
Aroclor-1242 (4)												
Aroclor-1242 (5)												
Aroclor-1242 [2C]												

INITIAL CALIBRATION DATA (Continued)

SW8082A

Laboratory:	Empirical Laboratories, LLC	SDG:	1109191
Client:	Tetra Tech NUS, Inc. (T010)	Project:	Navy Fuel Depot CTO JM46
Calibration:	1277003	Instrument:	GL-ECD3
Matrix:	Water	Calibration Dates:	11/24/10 20:08 9/30/11 11:18

Compound	Level 25		Level 26		Level 27		Level 28		Level 29		Level 30	
	ug/L	RF	ug/L	RF	ug/L	RF	ug/L	RF	ug/L	RF	ug/L	RF
Aroclor-1242 (1) [2C]												
Aroclor-1242 (2) [2C]												
Aroclor-1242 (3) [2C]												
Aroclor-1242 (4) [2C]												
Aroclor-1242 (5) [2C]												
Aroclor-1254												
Aroclor-1254 (1)												
Aroclor-1254 (2)												
Aroclor-1254 (3)												
Aroclor-1254 (4)												
Aroclor-1254 (5)												
Aroclor-1254 [2C]												
Aroclor-1254 (1) [2C]												
Aroclor-1254 (2) [2C]												
Aroclor-1254 (3) [2C]												
Aroclor-1254 (4) [2C]												
Aroclor-1254 (5) [2C]												
Aroclor-1260	50	2132.912										
Aroclor-1260 (1)	50	3619.7										
Aroclor-1260 (2)	50	2110.86										
Aroclor-1260 (3)	50	2162.46										
Aroclor-1260 (4)	50	1573.2										
Aroclor-1260 (5)	50	1198.34										
Aroclor-1260 [2C]	50	1862.632										
Aroclor-1260 (1) [2C]	50	2844.12										
Aroclor-1260 (2) [2C]	50	1751.32										
Aroclor-1260 (3) [2C]	50	1659.5										
Aroclor-1260 (4) [2C]	50	1771.46										
Aroclor-1260 (5) [2C]	50	1286.76										
Aroclor-1268												
Aroclor-1268 (1)												

INITIAL CALIBRATION DATA (Continued)

SW8082A

Laboratory: Empirical Laboratories, LLC
SDG: 1109191
Client: Tetra Tech NUS, Inc. (T010)
Project: Navy Fuel Depot CTO JM46
Calibration: 1277003
Instrument: GL-ECD3
Matrix: Water
Calibration Dates: 11/24/10 20:08 9/30/11 11:18

Compound	Level 25		Level 26		Level 27		Level 28		Level 29		Level 30	
	ug/L	RF	ug/L	RF	ug/L	RF	ug/L	RF	ug/L	RF	ug/L	RF
Aroclor-1268 (2)												
Aroclor-1268 (3)												
Aroclor-1268 (4)												
Aroclor-1268 (5)												
Aroclor-1268 [2C]												
Aroclor-1268 (1) [2C]												
Aroclor-1268 (2) [2C]												
Aroclor-1268 (3) [2C]												
Aroclor-1268 (4) [2C]												
Aroclor-1268 (5) [2C]												
Tetrachloro-m-xylene	5											
Tetrachloro-m-xylene [2C]	5											
Decachlorobiphenyl	5											
Decachlorobiphenyl [2C]	5											
Aroclor-1016	50	1321.756										
Aroclor-1016 (1)	50	3194.3										
Aroclor-1016 (2)	50	790.2										
Aroclor-1016 (3)	50	770.06										
Aroclor-1016 (4)	50	1131.02										
Aroclor-1016 (5)	50	723.2										
Aroclor-1016 [2C]	50	833.188										
Aroclor-1016 (1) [2C]	50	1236.26										
Aroclor-1016 (2) [2C]	50	667.78										
Aroclor-1016 (3) [2C]	50	931.88										
Aroclor-1016 (4) [2C]	50	618.44										
Aroclor-1016 (5) [2C]	50	711.58										
Aroclor-1221			2500	307.532	1000	333.3164	750	320.4096	500	348.046	100	378.792
Aroclor-1221 (1)			2500	728.9236	1000	778.165	750	723.9026	500	802.69	100	824.84
Aroclor-1221 (2)			2500	216.0624	1000	237.462	750	244.3773	500	257.578	100	311.96
Aroclor-1221 (3)			2500	104.058	1000	121.292	750	128.9613	500	132.516	100	159.07
Aroclor-1221 (4)			2500	300.6684	1000	322.243	750	314.2413	500	330.856	100	362.63

INITIAL CALIBRATION DATA (Continued)

SW8082A

Laboratory:	Empirical Laboratories, LLC	SDG:	1109191
Client:	Tetra Tech NUS, Inc. (T010)	Project:	Navy Fuel Depot CTO JM46
Calibration:	1277003	Instrument:	GL-ECD3
Matrix:	Water	Calibration Dates:	11/24/10 20:08 9/30/11 11:18

Compound	Level 25		Level 26		Level 27		Level 28		Level 29		Level 30	
	ug/L	RF	ug/L	RF	ug/L	RF	ug/L	RF	ug/L	RF	ug/L	RF
Aroclor-1221 (5)			2500	187.9476	1000	207.42	750	190.5653	500	216.59	100	235.46
Aroclor-1221 [2C]			2500	303.3857	1000	330.0778	750	338.3389	500	356.7156	100	437.05
Aroclor-1221 (1) [2C]			2500	664.0104	1000	719.811	750	733.4893	500	776.988	100	935.64
Aroclor-1221 (2) [2C]			2500	223.7604	1000	246.313	750	255.236	500	272.496	100	365.59
Aroclor-1221 (3) [2C]			2500	116.794	1000	128.145	750	134.2013	500	140.266	100	170.86
Aroclor-1221 (4) [2C]			2500	322.6628	1000	347.962	750	355.9413	500	370.24	100	441.34
Aroclor-1221 (5) [2C]			2500	189.7012	1000	208.158	750	212.8267	500	223.588	100	271.82
Aroclor-1242												
Aroclor-1242 (1)												
Aroclor-1242 (2)												
Aroclor-1242 (3)												
Aroclor-1242 (4)												
Aroclor-1242 (5)												
Aroclor-1242 [2C]												
Aroclor-1242 (1) [2C]												
Aroclor-1242 (2) [2C]												
Aroclor-1242 (3) [2C]												
Aroclor-1242 (4) [2C]												
Aroclor-1242 (5) [2C]												
Aroclor-1254												
Aroclor-1254 (1)												
Aroclor-1254 (2)												
Aroclor-1254 (3)												
Aroclor-1254 (4)												
Aroclor-1254 (5)												
Aroclor-1254 [2C]												
Aroclor-1254 (1) [2C]												
Aroclor-1254 (2) [2C]												
Aroclor-1254 (3) [2C]												
Aroclor-1254 (4) [2C]												
Aroclor-1254 (5) [2C]												

INITIAL CALIBRATION DATA (Continued)

SW8082A

Laboratory: Empirical Laboratories, LLC
SDG: 1109191
Client: Tetra Tech NUS, Inc. (T010)
Project: Navy Fuel Depot CTO JM46
Calibration: 1277003
Instrument: GL-ECD3
Matrix: Water
Calibration Dates: 11/24/10 20:08 9/30/11 11:18

Compound	Level 25		Level 26		Level 27		Level 28		Level 29		Level 30	
	ug/L	RF	ug/L	RF	ug/L	RF	ug/L	RF	ug/L	RF	ug/L	RF
Aroclor-1260	50	2132.912										
Aroclor-1260 (1)	50	3619.7										
Aroclor-1260 (2)	50	2110.86										
Aroclor-1260 (3)	50	2162.46										
Aroclor-1260 (4)	50	1573.2										
Aroclor-1260 (5)	50	1198.34										
Aroclor-1260 [2C]	50	1862.632										
Aroclor-1260 (1) [2C]	50	2844.12										
Aroclor-1260 (2) [2C]	50	1751.32										
Aroclor-1260 (3) [2C]	50	1659.5										
Aroclor-1260 (4) [2C]	50	1771.46										
Aroclor-1260 (5) [2C]	50	1286.76										
Aroclor-1268												
Aroclor-1268 (1)												
Aroclor-1268 (2)												
Aroclor-1268 (3)												
Aroclor-1268 (4)												
Aroclor-1268 (5)												
Aroclor-1268 [2C]												
Aroclor-1268 (1) [2C]												
Aroclor-1268 (2) [2C]												
Aroclor-1268 (3) [2C]												
Aroclor-1268 (4) [2C]												
Aroclor-1268 (5) [2C]												
Tetrachloro-m-xylene	5											
Tetrachloro-m-xylene [2C]	5											
Decachlorobiphenyl	5											
Decachlorobiphenyl [2C]	5											

INITIAL CALIBRATION DATA (Continued)

SW8082A

Laboratory: Empirical Laboratories, LLC
SDG: 1109191
Client: Tetra Tech NUS, Inc. (T010)
Project: Navy Fuel Depot CTO JM46
Calibration: 1277003
Instrument: GL-ECD3
Matrix: Water
Calibration Dates: 11/24/10 20:08 9/30/11 11:18

Compound	Level 31		Level 32		Level 33		Level 34		Level 35		Level 36	
	ug/L	RF	ug/L	RF	ug/L	RF	ug/L	RF	ug/L	RF	ug/L	RF
Aroclor-1016												
Aroclor-1016 (1)												
Aroclor-1016 (2)												
Aroclor-1016 (3)												
Aroclor-1016 (4)												
Aroclor-1016 (5)												
Aroclor-1016 [2C]												
Aroclor-1016 (1) [2C]												
Aroclor-1016 (2) [2C]												
Aroclor-1016 (3) [2C]												
Aroclor-1016 (4) [2C]												
Aroclor-1016 (5) [2C]												
Aroclor-1221	50	396840										
Aroclor-1221 (1)	50	849840										
Aroclor-1221 (2)	50	350500										
Aroclor-1221 (3)	50	167700										
Aroclor-1221 (4)	50	373220										
Aroclor-1221 (5)	50	242940										
Aroclor-1221 [2C]	50	464568										
Aroclor-1221 (1) [2C]	50	999460										
Aroclor-1221 (2) [2C]	50	395280										
Aroclor-1221 (3) [2C]	50	182740										
Aroclor-1221 (4) [2C]	50	459360										
Aroclor-1221 (5) [2C]	50	286000										
Aroclor-1242			2500	714615.2	1000	773864	750	766440.9	500	800142	100	839580
Aroclor-1242 (1)			2500	1153122	1000	1206357	750	1152667	500	1176620	100	1132340
Aroclor-1242 (2)			2500	661441.2	1000	716351	750	737482.7	500	749320	100	761540
Aroclor-1242 (3)			2500	656102.4	1000	734123	750	751238.6	500	812104	100	984350
Aroclor-1242 (4)			2500	506597.6	1000	569426	750	558745.4	500	596908	100	686110
Aroclor-1242 (5)			2500	595812.8	1000	643063	750	632070.7	500	665758	100	633560
Aroclor-1242 [2C]			2500	713256.4	1000	784255.2	750	834598.4	500	887626.8	100	964584

INITIAL CALIBRATION DATA (Continued)

SW8082A

Laboratory: Empirical Laboratories, LLC
SDG: 1109191
Client: Tetra Tech NUS, Inc. (T010)
Project: Navy Fuel Depot CTO JM46
Calibration: 1277003
Instrument: GL-ECD3
Matrix: Water
Calibration Dates: 11/24/10 20:08 9/30/11 11:18

Compound	Level 31		Level 32		Level 33		Level 34		Level 35		Level 36	
	ug/L	RF	ug/L	RF	ug/L	RF	ug/L	RF	ug/L	RF	ug/L	RF
Aroclor-1242 (1) [2C]			2500	1004368	1000	1128679	750	1186243	500	1272788	100	1376570
Aroclor-1242 (2) [2C]			2500	393898	1000	438104	750	454141.3	500	484810	100	531970
Aroclor-1242 (3) [2C]			2500	765369.6	1000	814241	750	874140	500	894472	100	984680
Aroclor-1242 (4) [2C]			2500	737305.2	1000	827079	750	907601.3	500	978762	100	1046560
Aroclor-1242 (5) [2C]			2500	665342	1000	713173	750	750866.6	500	807302	100	883140
Aroclor-1254												
Aroclor-1254 (1)												
Aroclor-1254 (2)												
Aroclor-1254 (3)												
Aroclor-1254 (4)												
Aroclor-1254 (5)												
Aroclor-1254 [2C]												
Aroclor-1254 (1) [2C]												
Aroclor-1254 (2) [2C]												
Aroclor-1254 (3) [2C]												
Aroclor-1254 (4) [2C]												
Aroclor-1254 (5) [2C]												
Aroclor-1260												
Aroclor-1260 (1)												
Aroclor-1260 (2)												
Aroclor-1260 (3)												
Aroclor-1260 (4)												
Aroclor-1260 (5)												
Aroclor-1260 [2C]												
Aroclor-1260 (1) [2C]												
Aroclor-1260 (2) [2C]												
Aroclor-1260 (3) [2C]												
Aroclor-1260 (4) [2C]												
Aroclor-1260 (5) [2C]												
Aroclor-1268												
Aroclor-1268 (1)												

INITIAL CALIBRATION DATA (Continued)

SW8082A

Laboratory:	Empirical Laboratories, LLC	SDG:	1109191
Client:	Tetra Tech NUS, Inc. (T010)	Project:	Navy Fuel Depot CTO JM46
Calibration:	1277003	Instrument:	GL-ECD3
Matrix:	Water	Calibration Dates:	11/24/10 20:08 9/30/11 11:18

Compound	Level 31		Level 32		Level 33		Level 34		Level 35		Level 36	
	ug/L	RF	ug/L	RF	ug/L	RF	ug/L	RF	ug/L	RF	ug/L	RF
Aroclor-1268 (2)												
Aroclor-1268 (3)												
Aroclor-1268 (4)												
Aroclor-1268 (5)												
Aroclor-1268 [2C]												
Aroclor-1268 (1) [2C]												
Aroclor-1268 (2) [2C]												
Aroclor-1268 (3) [2C]												
Aroclor-1268 (4) [2C]												
Aroclor-1268 (5) [2C]												
Tetrachloro-m-xylene												
Tetrachloro-m-xylene [2C]												
Decachlorobiphenyl												
Decachlorobiphenyl [2C]												
Aroclor-1016												
Aroclor-1016 (1)												
Aroclor-1016 (2)												
Aroclor-1016 (3)												
Aroclor-1016 (4)												
Aroclor-1016 (5)												
Aroclor-1016 [2C]												
Aroclor-1016 (1) [2C]												
Aroclor-1016 (2) [2C]												
Aroclor-1016 (3) [2C]												
Aroclor-1016 (4) [2C]												
Aroclor-1016 (5) [2C]												
Aroclor-1221	50	396840										
Aroclor-1221 (1)	50	849840										
Aroclor-1221 (2)	50	350500										
Aroclor-1221 (3)	50	167700										
Aroclor-1221 (4)	50	373220										

INITIAL CALIBRATION DATA (Continued)

SW8082A

Laboratory: Empirical Laboratories, LLC
SDG: 1109191
Client: Tetra Tech NUS, Inc. (T010)
Project: Navy Fuel Depot CTO JM46
Calibration: 1277003
Instrument: GL-ECD3
Matrix: Water
Calibration Dates: 11/24/10 20:08 9/30/11 11:18

Compound	Level 31		Level 32		Level 33		Level 34		Level 35		Level 36	
	ug/L	RF	ug/L	RF	ug/L	RF	ug/L	RF	ug/L	RF	ug/L	RF
Aroclor-1221 (5)	50	242940										
Aroclor-1221 [2C]	50	464568										
Aroclor-1221 (1) [2C]	50	999460										
Aroclor-1221 (2) [2C]	50	395280										
Aroclor-1221 (3) [2C]	50	182740										
Aroclor-1221 (4) [2C]	50	459360										
Aroclor-1221 (5) [2C]	50	286000										
Aroclor-1242			2500	714615.2	1000	773864	750	766440.9	500	800142	100	839580
Aroclor-1242 (1)			2500	1153122	1000	1206357	750	1152667	500	1176620	100	1132340
Aroclor-1242 (2)			2500	661441.2	1000	716351	750	737482.7	500	749320	100	761540
Aroclor-1242 (3)			2500	656102.4	1000	734123	750	751238.6	500	812104	100	984350
Aroclor-1242 (4)			2500	506597.6	1000	569426	750	558745.4	500	596908	100	686110
Aroclor-1242 (5)			2500	595812.8	1000	643063	750	632070.7	500	665758	100	633560
Aroclor-1242 [2C]			2500	713256.4	1000	784255.2	750	834598.4	500	887626.8	100	964584
Aroclor-1242 (1) [2C]			2500	1004368	1000	1128679	750	1186243	500	1272788	100	1376570
Aroclor-1242 (2) [2C]			2500	393898	1000	438104	750	454141.3	500	484810	100	531970
Aroclor-1242 (3) [2C]			2500	765369.6	1000	814241	750	874140	500	894472	100	984680
Aroclor-1242 (4) [2C]			2500	737305.2	1000	827079	750	907601.3	500	978762	100	1046560
Aroclor-1242 (5) [2C]			2500	665342	1000	713173	750	750866.6	500	807302	100	883140
Aroclor-1254												
Aroclor-1254 (1)												
Aroclor-1254 (2)												
Aroclor-1254 (3)												
Aroclor-1254 (4)												
Aroclor-1254 (5)												
Aroclor-1254 [2C]												
Aroclor-1254 (1) [2C]												
Aroclor-1254 (2) [2C]												
Aroclor-1254 (3) [2C]												
Aroclor-1254 (4) [2C]												
Aroclor-1254 (5) [2C]												

INITIAL CALIBRATION DATA (Continued)

SW8082A

Laboratory:	Empirical Laboratories, LLC		SDG:	1109191	
Client:	Tetra Tech NUS, Inc. (T010)		Project:	Navy Fuel Depot CTO JM46	
Calibration:	1277003		Instrument:	GL-ECD3	
Matrix:	Water		Calibration Dates:	11/24/10 20:08	9/30/11 11:18

Compound	Level 31		Level 32		Level 33		Level 34		Level 35		Level 36	
	ug/L	RF	ug/L	RF	ug/L	RF	ug/L	RF	ug/L	RF	ug/L	RF
Aroclor-1260												
Aroclor-1260 (1)												
Aroclor-1260 (2)												
Aroclor-1260 (3)												
Aroclor-1260 (4)												
Aroclor-1260 (5)												
Aroclor-1260 [2C]												
Aroclor-1260 (1) [2C]												
Aroclor-1260 (2) [2C]												
Aroclor-1260 (3) [2C]												
Aroclor-1260 (4) [2C]												
Aroclor-1260 (5) [2C]												
Aroclor-1268												
Aroclor-1268 (1)												
Aroclor-1268 (2)												
Aroclor-1268 (3)												
Aroclor-1268 (4)												
Aroclor-1268 (5)												
Aroclor-1268 [2C]												
Aroclor-1268 (1) [2C]												
Aroclor-1268 (2) [2C]												
Aroclor-1268 (3) [2C]												
Aroclor-1268 (4) [2C]												
Aroclor-1268 (5) [2C]												
Tetrachloro-m-xylene												
Tetrachloro-m-xylene [2C]												
Decachlorobiphenyl												
Decachlorobiphenyl [2C]												

INITIAL CALIBRATION DATA (Continued)
SW8082A

Laboratory:	Empirical Laboratories, LLC	SDG:	1109191
Client:	Tetra Tech NUS, Inc. (T010)	Project:	Navy Fuel Depot CTO JM46
Calibration:	1277003	Instrument:	GL-ECD3
Matrix:	Water	Calibration Dates:	11/24/10 20:08 9/30/11 11:18

Compound	Level 37		Level 38		Level 39		Level 40		Level 41		Level 42	
	ug/L	RF	ug/L	RF	ug/L	RF	ug/L	RF	ug/L	RF	ug/L	RF
Aroclor-1016												
Aroclor-1016 (1)												
Aroclor-1016 (1) [2C]												
Aroclor-1016 (2)												
Aroclor-1016 (2) [2C]												
Aroclor-1016 (3)												
Aroclor-1016 (3) [2C]												
Aroclor-1016 (4)												
Aroclor-1016 (4) [2C]												
Aroclor-1016 (5)												
Aroclor-1016 (5) [2C]												
Aroclor-1016 [2C]												
Aroclor-1221												
Aroclor-1221 (1)												
Aroclor-1221 (1) [2C]												
Aroclor-1221 (2)												
Aroclor-1221 (2) [2C]												
Aroclor-1221 (3)												
Aroclor-1221 (3) [2C]												
Aroclor-1221 (4)												
Aroclor-1221 (4) [2C]												
Aroclor-1221 (5)												
Aroclor-1221 (5) [2C]												
Aroclor-1221 [2C]												
Aroclor-1242	50	854.12										
Aroclor-1242 (1)	50	1231.32										
Aroclor-1242 (1) [2C]	50	1506.84										
Aroclor-1242 (2)	50	809.24										
Aroclor-1242 (2) [2C]	50	611.64										
Aroclor-1242 (3)	50	1033.66										
Aroclor-1242 (3) [2C]	50	1071.68										

INITIAL CALIBRATION DATA (Continued)
SW8082A

Laboratory: Empirical Laboratories, LLC
SDG: 1109191
Client: Tetra Tech NUS, Inc. (T010)
Project: Navy Fuel Depot CTO JM46
Calibration: 1277003
Instrument: GL-ECD3
Matrix: Water
Calibration Dates: 11/24/10 20:08 9/30/11 11:18

Compound	Level 37		Level 38		Level 39		Level 40		Level 41		Level 42	
	ug/L	RF	ug/L	RF	ug/L	RF	ug/L	RF	ug/L	RF	ug/L	RF
Aroclor-1242 (4)	50	676.1										
Aroclor-1242 (4) [2C]	50	1144.66										
Aroclor-1242 (5)	50	520.28										
Aroclor-1242 (5) [2C]	50	967.78										
Aroclor-1242 [2C]	50	1060.52										
Aroclor-1254			2500	1593.385	1000	1675.9	750	1520.461	500	1514.941	100	1760.786
Aroclor-1254 (1)			2500	2181.569	1000	2213.754	750	2115.008	500	2069.622	100	2413.38
Aroclor-1254 (1) [2C]			2500	1665.312	1000	1848.402	750	1709.2	500	1824.956	100	2215.93
Aroclor-1254 (2)			2500	609.7048	1000	646.494	750	614.2546	500	620.22	100	759.06
Aroclor-1254 (2) [2C]			2500	1486.024	1000	1654.783	750	1611.873	500	1691.43	100	2067.97
Aroclor-1254 (3)			2500	1927.691	1000	1965.319	750	1867.789	500	1849.616	100	2202.79
Aroclor-1254 (3) [2C]			2500	1223.077	1000	1351.607	750	1342.195	500	1372.778	100	1685.03
Aroclor-1254 (4)			2500	1462.815	1000	1423.562	750	1352.996	500	1305.596	100	1469.41
Aroclor-1254 (4) [2C]			2500	1236.398	1000	1310.415	750	1273.376	500	1267.942	100	1544.31
Aroclor-1254 (5)			2500	1785.144	1000	2130.373	750	1652.259	500	1729.65	100	1959.29
Aroclor-1254 (5) [2C]			2500	1672.442	1000	1837.252	750	1415.377	500	1707.332	100	1794.39
Aroclor-1254 [2C]			2500	1456.651	1000	1600.492	750	1470.404	500	1572.888	100	1861.526
Aroclor-1260												
Aroclor-1260 (1)												
Aroclor-1260 (1) [2C]												
Aroclor-1260 (2)												
Aroclor-1260 (2) [2C]												
Aroclor-1260 (3)												
Aroclor-1260 (3) [2C]												
Aroclor-1260 (4)												
Aroclor-1260 (4) [2C]												
Aroclor-1260 (5)												
Aroclor-1260 (5) [2C]												
Aroclor-1260 [2C]												
Aroclor-1268												
Aroclor-1268 (1)												

INITIAL CALIBRATION DATA (Continued)
SW8082A

Laboratory:	Empirical Laboratories, LLC	SDG:	1109191
Client:	Tetra Tech NUS, Inc. (T010)	Project:	Navy Fuel Depot CTO JM46
Calibration:	1277003	Instrument:	GL-ECD3
Matrix:	Water	Calibration Dates:	11/24/10 20:08 9/30/11 11:18

Compound	Level 37		Level 38		Level 39		Level 40		Level 41		Level 42	
	ug/L	RF	ug/L	RF	ug/L	RF	ug/L	RF	ug/L	RF	ug/L	RF
Aroclor-1268 (1) [2C]												
Aroclor-1268 (2)												
Aroclor-1268 (2) [2C]												
Aroclor-1268 (3)												
Aroclor-1268 (3) [2C]												
Aroclor-1268 (4)												
Aroclor-1268 (4) [2C]												
Aroclor-1268 (5)												
Aroclor-1268 (5) [2C]												
Aroclor-1268 [2C]												
Decachlorobiphenyl												
Decachlorobiphenyl [2C]												
Tetrachloro-m-xylene												
Tetrachloro-m-xylene [2C]												
Aroclor-1016												
Aroclor-1016 (1)												
Aroclor-1016 (1) [2C]												
Aroclor-1016 (2)												
Aroclor-1016 (2) [2C]												
Aroclor-1016 (3)												
Aroclor-1016 (3) [2C]												
Aroclor-1016 (4)												
Aroclor-1016 (4) [2C]												
Aroclor-1016 (5)												
Aroclor-1016 (5) [2C]												
Aroclor-1016 [2C]												
Aroclor-1221												
Aroclor-1221 (1)												
Aroclor-1221 (1) [2C]												
Aroclor-1221 (2)												
Aroclor-1221 (2) [2C]												

INITIAL CALIBRATION DATA (Continued)
SW8082A

Laboratory: Empirical Laboratories, LLC
SDG: 1109191
Client: Tetra Tech NUS, Inc. (T010)
Project: Navy Fuel Depot CTO JM46
Calibration: 1277003
Instrument: GL-ECD3
Matrix: Water
Calibration Dates: 11/24/10 20:08 9/30/11 11:18

Compound	Level 37		Level 38		Level 39		Level 40		Level 41		Level 42	
	ug/L	RF	ug/L	RF	ug/L	RF	ug/L	RF	ug/L	RF	ug/L	RF
Aroclor-1221 (3)												
Aroclor-1221 (3) [2C]												
Aroclor-1221 (4)												
Aroclor-1221 (4) [2C]												
Aroclor-1221 (5)												
Aroclor-1221 (5) [2C]												
Aroclor-1221 [2C]												
Aroclor-1242	50	854.12										
Aroclor-1242 (1)	50	1231.32										
Aroclor-1242 (1) [2C]	50	1506.84										
Aroclor-1242 (2)	50	809.24										
Aroclor-1242 (2) [2C]	50	611.64										
Aroclor-1242 (3)	50	1033.66										
Aroclor-1242 (3) [2C]	50	1071.68										
Aroclor-1242 (4)	50	676.1										
Aroclor-1242 (4) [2C]	50	1144.66										
Aroclor-1242 (5)	50	520.28										
Aroclor-1242 (5) [2C]	50	967.78										
Aroclor-1242 [2C]	50	1060.52										
Aroclor-1254			2500	1593.385	1000	1675.9	750	1520.461	500	1514.941	100	1760.786
Aroclor-1254 (1)			2500	2181.569	1000	2213.754	750	2115.008	500	2069.622	100	2413.38
Aroclor-1254 (1) [2C]			2500	1665.312	1000	1848.402	750	1709.2	500	1824.956	100	2215.93
Aroclor-1254 (2)			2500	609.7048	1000	646.494	750	614.2546	500	620.22	100	759.06
Aroclor-1254 (2) [2C]			2500	1486.024	1000	1654.783	750	1611.873	500	1691.43	100	2067.97
Aroclor-1254 (3)			2500	1927.691	1000	1965.319	750	1867.789	500	1849.616	100	2202.79
Aroclor-1254 (3) [2C]			2500	1223.077	1000	1351.607	750	1342.195	500	1372.778	100	1685.03
Aroclor-1254 (4)			2500	1462.815	1000	1423.562	750	1352.996	500	1305.596	100	1469.41
Aroclor-1254 (4) [2C]			2500	1236.398	1000	1310.415	750	1273.376	500	1267.942	100	1544.31
Aroclor-1254 (5)			2500	1785.144	1000	2130.373	750	1652.259	500	1729.65	100	1959.29
Aroclor-1254 (5) [2C]			2500	1672.442	1000	1837.252	750	1415.377	500	1707.332	100	1794.39
Aroclor-1254 [2C]			2500	1456.651	1000	1600.492	750	1470.404	500	1572.888	100	1861.526

INITIAL CALIBRATION DATA (Continued)
SW8082A

Laboratory:	Empirical Laboratories, LLC		SDG:	1109191	
Client:	Tetra Tech NUS, Inc. (T010)		Project:	Navy Fuel Depot CTO JM46	
Calibration:	1277003		Instrument:	GL-ECD3	
Matrix:	Water		Calibration Dates:	11/24/10 20:08	9/30/11 11:18

Compound	Level 37		Level 38		Level 39		Level 40		Level 41		Level 42	
	ug/L	RF	ug/L	RF	ug/L	RF	ug/L	RF	ug/L	RF	ug/L	RF
Aroclor-1260												
Aroclor-1260 (1)												
Aroclor-1260 (1) [2C]												
Aroclor-1260 (2)												
Aroclor-1260 (2) [2C]												
Aroclor-1260 (3)												
Aroclor-1260 (3) [2C]												
Aroclor-1260 (4)												
Aroclor-1260 (4) [2C]												
Aroclor-1260 (5)												
Aroclor-1260 (5) [2C]												
Aroclor-1260 [2C]												
Aroclor-1268												
Aroclor-1268 (1)												
Aroclor-1268 (1) [2C]												
Aroclor-1268 (2)												
Aroclor-1268 (2) [2C]												
Aroclor-1268 (3)												
Aroclor-1268 (3) [2C]												
Aroclor-1268 (4)												
Aroclor-1268 (4) [2C]												
Aroclor-1268 (5)												
Aroclor-1268 (5) [2C]												
Aroclor-1268 [2C]												
Decachlorobiphenyl												
Decachlorobiphenyl [2C]												
Tetrachloro-m-xylene												
Tetrachloro-m-xylene [2C]												

INITIAL CALIBRATION DATA (Continued)

SW8082A

Laboratory:	Empirical Laboratories, LLC	SDG:	1109191
Client:	Tetra Tech NUS, Inc. (T010)	Project:	Navy Fuel Depot CTO JM46
Calibration:	1277003	Instrument:	GL-ECD3
Matrix:	Water	Calibration Dates:	11/24/10 20:08 9/30/11 11:18

Compound	Mean RF	RF RSD	Mean RT	RT RSD	Linear r	Quad COD	LIMIT	Q
Aroclor-1016	988.5776	19.89678	7.846167	1.453138E-02	0.9994703		0.995	
Aroclor-1016 (1)	1848.906	40.24856	7.655	1.615223E-02	0.9994829		0.995	
Aroclor-1016 (2)	709.958	8.571657	7.079667	1.167054E-02	0.9994554		0.995	
Aroclor-1016 (3)	699.4579	9.477655	7.3065	6.789139E-03	0.9993045		0.995	
Aroclor-1016 (4)	1009.497	9.223935	7.6285	1.804089E-02	0.999261		0.995	
Aroclor-1016 (5)	675.0696	7.134182	7.846167	1.453138E-02	0.9995023		0.995	
Aroclor-1016 [2C]	722.6023	11.66771	7.127167	1.716239E-02			20	
Aroclor-1016 (1) [2C]	1046.325	13.86108	6.8155	8.321414E-03			20	
Aroclor-1016 (2) [2C]	573.6751	11.48568	6.533167	7.52791E-03			20	
Aroclor-1016 (3) [2C]	826.3927	10.52362	6.794167	2.128621E-02			20	
Aroclor-1016 (4) [2C]	564.1648	9.203863	7.0255	1.962031E-02			20	
Aroclor-1016 (5) [2C]	602.4543	12.46637	7.127167	1.716239E-02			20	
Aroclor-1221	347.4893	9.924339	5.7135	4.536247E-02			20	
Aroclor-1221 (1)	784.7269	6.504846	5.7135	4.536247E-02			20	
Aroclor-1221 (2)	269.6566	18.92312	4.818833	5.276151E-02			20	
Aroclor-1221 (3)	135.5996	17.55865	5.322	5.949774E-02			20	
Aroclor-1221 (4)	333.9765	8.476765	5.551167	5.769338E-02			20	
Aroclor-1221 (5)	213.4872	10.62871	5.638167	4.761936E-02			20	
Aroclor-1221 [2C]	371.6894	17.28238	4.621167	2.395263E-02			20	
Aroclor-1221 (1) [2C]	804.8998	16.47422	4.621167	2.395263E-02			20	
Aroclor-1221 (2) [2C]	293.1126	23.90633	3.882667	0.0386834			20	*
Aroclor-1221 (3) [2C]	145.5011	17.6839	4.319833	2.417878E-02			20	
Aroclor-1221 (4) [2C]	382.9177	14.30278	4.487667	2.750918E-02			20	
Aroclor-1221 (5) [2C]	232.0156	16.46603	4.557667	2.353323E-02			20	
Aroclor-1242	791.4603	6.481551	7.114	2.068065E-02			20	
Aroclor-1242 (1)	1175.404	3.172852	6.611	5.346339E-02			20	
Aroclor-1242 (2)	739.2291	6.648799	6.2935	1.573445E-02			20	
Aroclor-1242 (3)	828.5963	18.00172	6.782333	3.062254E-02			20	
Aroclor-1242 (4)	598.9812	11.70324	6.888667	2.426782E-02			20	
Aroclor-1242 (5)	615.0907	8.397498	7.114	2.068065E-02			20	
Aroclor-1242 [2C]	874.1401	14.34553	6.077667	0.0297564			20	
Aroclor-1242 (1) [2C]	1245.915	14.42601	5.314833	9.833187E-03			20	

INITIAL CALIBRATION DATA (Continued)

SW8082A

Laboratory:	Empirical Laboratories, LLC	SDG:	1109191
Client:	Tetra Tech NUS, Inc. (T010)	Project:	Navy Fuel Depot CTO JM46
Calibration:	1277003	Instrument:	GL-ECD3
Matrix:	Water	Calibration Dates:	11/24/10 20:08 9/30/11 11:18

Compound	Mean RF	RF RSD	Mean RT	RT RSD	Linear r	Quad COD	LIMIT	Q
Aroclor-1242 (2) [2C]	485.7606	15.86386	4.645833	2.298644E-02			20	
Aroclor-1242 (3) [2C]	900.7638	12.44385	5.294	1.873726E-02			20	
Aroclor-1242 (4) [2C]	940.3279	15.74699	5.353667	2.229515E-02			20	
Aroclor-1242 (5) [2C]	797.9339	14.08717	6.077667	0.0297564			20	
Aroclor-1254	1699.168	13.59019	8.539667	5.502189E-02			20	
Aroclor-1254 (1)	2292.719	11.30072	7.694333	6.199653E-02			20	
Aroclor-1254 (2)	693.5489	17.38971	6.3965	0.0218992			20	
Aroclor-1254 (3)	2066.051	13.71531	7.2715	3.150532E-02			20	
Aroclor-1254 (4)	1446.243	8.570629	8.046	0.1017325			20	
Aroclor-1254 (5)	1997.279	19.8671	8.539667	5.502189E-02			20	
Aroclor-1254 [2C]	1693.787	17.00119	6.932	3.953441E-02	0.9985235		0.995	
Aroclor-1254 (1) [2C]	1952.343	15.96792	6.223667	3.746303E-02	0.9982718		0.995	
Aroclor-1254 (2) [2C]	1830.507	20.19465	5.678667	2.516689E-02	0.9983385		0.995	
Aroclor-1254 (3) [2C]	1494.541	19.31069	5.844167	0.0256865	0.9985135		0.995	
Aroclor-1254 (4) [2C]	1378.73	12.30654	6.498167	7.342451E-02	0.9995308		0.995	
Aroclor-1254 (5) [2C]	1812.815	19.04287	6.932	3.953441E-02	0.9942367		0.995	*
Aroclor-1260	2017.218	7.406798	12.24983	7.414517E-03			20	
Aroclor-1260 (1)	3590.617	7.233293	11.12617	0.0147834			20	
Aroclor-1260 (2)	1927.506	8.219695	9.969333	9.563524E-03			20	
Aroclor-1260 (3)	2089.305	7.178012	10.32783	2.378826E-03			20	
Aroclor-1260 (4)	1485.512	7.669346	10.43333	3.956388E-03			20	
Aroclor-1260 (5)	993.153	12.28537	12.24983	7.414517E-03			20	
Aroclor-1260 [2C]	1652.073	10.01034	9.996833	7.67908E-03			20	
Aroclor-1260 (1) [2C]	2610.749	8.357481	9.996833	7.67908E-03			20	
Aroclor-1260 (2) [2C]	1521.312	11.53059	8.870667	1.242484E-02			20	
Aroclor-1260 (3) [2C]	1413.996	11.9452	9.066833	1.194378E-02			20	
Aroclor-1260 (4) [2C]	1565.017	10.16091	9.292167	1.667907E-02			20	
Aroclor-1260 (5) [2C]	1149.291	9.67878	9.679667	1.23889E-03			20	
Aroclor-1268	4950.131	5.884554	11.3085	1.188354E-02			20	
Aroclor-1268 (1)	10633.26	7.456442	11.3085	1.188354E-02			20	
Aroclor-1268 (2)	4906.048	5.456476	10.2125	1.012895E-02			20	
Aroclor-1268 (3)	4157.727	4.834059	10.31367	0.0165684			20	

INITIAL CALIBRATION DATA (Continued)

SW8082A

Laboratory:	Empirical Laboratories, LLC	SDG:	1109191
Client:	Tetra Tech NUS, Inc. (T010)	Project:	Navy Fuel Depot CTO JM46
Calibration:	1277003	Instrument:	GL-ECD3
Matrix:	Water	Calibration Dates:	11/24/10 20:08 9/30/11 11:18

Compound	Mean RF	RF RSD	Mean RT	RT RSD	Linear r	Quad COD	LIMIT	Q
Aroclor-1268 (4)	3544.431	4.935248	10.54033	0.0108443			20	
Aroclor-1268 (5)	1509.183	4.2704	10.9575	1.378519E-02			20	
Aroclor-1268 [2C]	2609.566	9.647623	9.6885	5.674121E-03			20	
Aroclor-1268 (1) [2C]	5435.372	9.304561	9.6885	5.674121E-03			20	
Aroclor-1268 (2) [2C]	2529.701	10.17003	8.657166	1.145883E-02			20	
Aroclor-1268 (3) [2C]	2239.34	9.177625	8.736334	9.409822E-03			20	
Aroclor-1268 (4) [2C]	1942.012	10.40219	8.974167	8.895803E-03			20	
Aroclor-1268 (5) [2C]	901.405	10.01399	9.357	1.944801E-02			20	
Tetrachloro-m-xylene	37674.28	4.616576	5.741857	1.602179E-02			20	
Tetrachloro-m-xylene [2C]	36869.02	12.12627	5.084429	2.045503E-02			20	
Decachlorobiphenyl	37420.63	16.02721	12.17614	1.669349E-02			20	
Decachlorobiphenyl [2C]	30193.55	21.03715	11.09257	9.165985E-03	0.9999551		0.995	
Aroclor-1016	988.5776	19.89678	7.846167	1.453138E-02			20	
Aroclor-1016 (1)	1848.906	40.24856	7.655	1.615223E-02	0.9994829		0.995	
Aroclor-1016 (2)	709.958	8.571657	7.079667	1.167054E-02	0.9994554		0.995	
Aroclor-1016 (3)	699.4579	9.477655	7.3065	6.789139E-03	0.9993045		0.995	
Aroclor-1016 (4)	1009.497	9.223935	7.6285	1.804089E-02	0.999261		0.995	
Aroclor-1016 (5)	675.0696	7.134182	7.846167	1.453138E-02	0.9995023		0.995	
Aroclor-1016 [2C]	722.6023	11.66771	7.127167	1.716239E-02			20	
Aroclor-1016 (1) [2C]	1046.325	13.86108	6.8155	8.321414E-03			20	
Aroclor-1016 (2) [2C]	573.6751	11.48568	6.533167	7.52791E-03			20	
Aroclor-1016 (3) [2C]	826.3927	10.52362	6.794167	2.128621E-02			20	
Aroclor-1016 (4) [2C]	564.1648	9.203863	7.0255	1.962031E-02			20	
Aroclor-1016 (5) [2C]	602.4543	12.46637	7.127167	1.716239E-02			20	
Aroclor-1221	347.4893	9.924339	5.7135	4.536247E-02			20	
Aroclor-1221 (1)	784.7269	6.504846	5.7135	4.536247E-02			20	
Aroclor-1221 (2)	269.6566	18.92312	4.818833	5.276151E-02			20	
Aroclor-1221 (3)	135.5996	17.55865	5.322	5.949774E-02			20	
Aroclor-1221 (4)	333.9765	8.476765	5.551167	5.769338E-02			20	
Aroclor-1221 (5)	213.4872	10.62871	5.638167	4.761936E-02			20	
Aroclor-1221 [2C]	371.6894	17.28238	4.621167	2.395263E-02			20	
Aroclor-1221 (1) [2C]	804.8998	16.47422	4.621167	2.395263E-02			20	

INITIAL CALIBRATION DATA (Continued)

SW8082A

Laboratory:	Empirical Laboratories, LLC	SDG:	1109191
Client:	Tetra Tech NUS, Inc. (T010)	Project:	Navy Fuel Depot CTO JM46
Calibration:	1277003	Instrument:	GL-ECD3
Matrix:	Water	Calibration Dates:	11/24/10 20:08 9/30/11 11:18

Compound	Mean RF	RF RSD	Mean RT	RT RSD	Linear r	Quad COD	LIMIT	Q
Aroclor-1221 (2) [2C]	293.1126	23.90633	3.882667	0.0386834			20	*
Aroclor-1221 (3) [2C]	145.5011	17.6839	4.319833	2.417878E-02			20	
Aroclor-1221 (4) [2C]	382.9177	14.30278	4.487667	2.750918E-02			20	
Aroclor-1221 (5) [2C]	232.0156	16.46603	4.557667	2.353323E-02			20	
Aroclor-1242	791.4603	6.481551	7.114	2.068065E-02			20	
Aroclor-1242 (1)	1175.404	3.172852	6.611	5.346339E-02			20	
Aroclor-1242 (2)	739.2291	6.648799	6.2935	1.573445E-02			20	
Aroclor-1242 (3)	828.5963	18.00172	6.782333	3.062254E-02			20	
Aroclor-1242 (4)	598.9812	11.70324	6.888667	2.426782E-02			20	
Aroclor-1242 (5)	615.0907	8.397498	7.114	2.068065E-02			20	
Aroclor-1242 [2C]	874.1401	14.34553	6.077667	0.0297564			20	
Aroclor-1242 (1) [2C]	1245.915	14.42601	5.314833	9.833187E-03			20	
Aroclor-1242 (2) [2C]	485.7606	15.86386	4.645833	2.298644E-02			20	
Aroclor-1242 (3) [2C]	900.7638	12.44385	5.294	1.873726E-02			20	
Aroclor-1242 (4) [2C]	940.3279	15.74699	5.353667	2.229515E-02			20	
Aroclor-1242 (5) [2C]	797.9339	14.08717	6.077667	0.0297564			20	
Aroclor-1254	1699.168	13.59019	8.539667	5.502189E-02			20	
Aroclor-1254 (1)	2292.719	11.30072	7.694333	6.199653E-02			20	
Aroclor-1254 (2)	693.5489	17.38971	6.3965	0.0218992			20	
Aroclor-1254 (3)	2066.051	13.71531	7.2715	3.150532E-02			20	
Aroclor-1254 (4)	1446.243	8.570629	8.046	0.1017325			20	
Aroclor-1254 (5)	1997.279	19.8671	8.539667	5.502189E-02			20	
Aroclor-1254 [2C]	1693.787	17.00119	6.932	3.953441E-02	0.9985235		0.995	
Aroclor-1254 (1) [2C]	1952.343	15.96792	6.223667	3.746303E-02	0.9982718		0.995	
Aroclor-1254 (2) [2C]	1830.507	20.19465	5.678667	2.516689E-02	0.9983385		0.995	
Aroclor-1254 (3) [2C]	1494.541	19.31069	5.844167	0.0256865	0.9985135		0.995	
Aroclor-1254 (4) [2C]	1378.73	12.30654	6.498167	7.342451E-02	0.9995308		0.995	
Aroclor-1254 (5) [2C]	1812.815	19.04287	6.932	3.953441E-02	0.9942367		0.995	*
Aroclor-1260	2017.218	7.406798	12.24983	7.414517E-03			20	
Aroclor-1260 (1)	3590.617	7.233293	11.12617	0.0147834			20	
Aroclor-1260 (2)	1927.506	8.219695	9.969333	9.563524E-03			20	
Aroclor-1260 (3)	2089.305	7.178012	10.32783	2.378826E-03			20	

INITIAL CALIBRATION DATA (Continued)

SW8082A

Laboratory:	Empirical Laboratories, LLC	SDG:	1109191
Client:	Tetra Tech NUS, Inc. (T010)	Project:	Navy Fuel Depot CTO JM46
Calibration:	1277003	Instrument:	GL-ECD3
Matrix:	Water	Calibration Dates:	11/24/10 20:08 9/30/11 11:18

Compound	Mean RF	RF RSD	Mean RT	RT RSD	Linear r	Quad COD	LIMIT	Q
Aroclor-1260 (4)	1485.512	7.669346	10.43333	3.956388E-03			20	
Aroclor-1260 (5)	993.153	12.28537	12.24983	7.414517E-03			20	
Aroclor-1260 [2C]	1652.073	10.01034	9.996833	7.67908E-03			20	
Aroclor-1260 (1) [2C]	2610.749	8.357481	9.996833	7.67908E-03			20	
Aroclor-1260 (2) [2C]	1521.312	11.53059	8.870667	1.242484E-02			20	
Aroclor-1260 (3) [2C]	1413.996	11.9452	9.066833	1.194378E-02			20	
Aroclor-1260 (4) [2C]	1565.017	10.16091	9.292167	1.667907E-02			20	
Aroclor-1260 (5) [2C]	1149.291	9.67878	9.679667	1.23889E-03			20	
Aroclor-1268	4950.131	5.884554	11.3085	1.188354E-02			20	
Aroclor-1268 (1)	10633.26	7.456442	11.3085	1.188354E-02			20	
Aroclor-1268 (2)	4906.048	5.456476	10.2125	1.012895E-02			20	
Aroclor-1268 (3)	4157.727	4.834059	10.31367	0.0165684			20	
Aroclor-1268 (4)	3544.431	4.935248	10.54033	0.0108443			20	
Aroclor-1268 (5)	1509.183	4.2704	10.9575	1.378519E-02			20	
Aroclor-1268 [2C]	2609.566	9.647623	9.6885	5.674121E-03			20	
Aroclor-1268 (1) [2C]	5435.372	9.304561	9.6885	5.674121E-03			20	
Aroclor-1268 (2) [2C]	2529.701	10.17003	8.657166	1.145883E-02			20	
Aroclor-1268 (3) [2C]	2239.34	9.177625	8.736334	9.409822E-03			20	
Aroclor-1268 (4) [2C]	1942.012	10.40219	8.974167	8.895803E-03			20	
Aroclor-1268 (5) [2C]	901.405	10.01399	9.357	1.944801E-02			20	
Tetrachloro-m-xylene	37674.28	4.616576	5.741857	1.602179E-02			20	
Tetrachloro-m-xylene [2C]	36869.02	12.12627	5.084429	2.045503E-02			20	
Decachlorobiphenyl	37420.63	16.02721	12.17614	1.669349E-02			20	
Decachlorobiphenyl [2C]	30193.55	21.03715	11.09257	9.165985E-03	0.9999551		0.995	

INITIAL CALIBRATION DATA

SW8082A

Laboratory:	Empirical Laboratories, LLC	SDG:	1109191
Client:	Tetra Tech NUS, Inc. (T010)	Project:	Navy Fuel Depot CTO JM46
Calibration:	1286006	Instrument:	GL-ECD3
Matrix:	Water	Calibration Dates:	11/24/10 20:08 10/10/11 21:37

Compound	Level 01		Level 02		Level 03		Level 04		Level 05		Level 06	
	ug/L	RF	ug/L	RF	ug/L	RF	ug/L	RF	ug/L	RF	ug/L	RF
Aroclor-1016	2500	1027.861	1000	1053.834	750	1018.486	500	1041.356	100	1180.97	50	1196.384
Aroclor-1016 (1)	2500	1579.595	1000	1660.668	750	1612.904	500	1644.272	100	1903.85	50	1913.64
Aroclor-1016 (2)	2500	791.7648	1000	821.788	750	792.7853	500	811.1	100	916.71	50	912.3
Aroclor-1016 (3)	2500	780.3408	1000	799.052	750	768.764	500	784.742	100	873.38	50	873
Aroclor-1016 (4)	2500	1201.915	1000	1181.036	750	1141.581	500	1171.316	100	1309.02	50	1390.9
Aroclor-1016 (5)	2500	785.6888	1000	806.625	750	776.396	500	795.35	100	901.89	50	892.08
Aroclor-1016 [2C]	2500	691.7532	1000	762.9158	750	752.7395	500	790.8856	100	976.644	50	1029.38
Aroclor-1016 (1) [2C]	2500	972.4664	1000	1113.484	750	1083.869	500	1165.64	100	1451.5	50	1522.26
Aroclor-1016 (2) [2C]	2500	575.3704	1000	628.724	750	620.2454	500	647.398	100	806.67	50	839.66
Aroclor-1016 (3) [2C]	2500	805.648	1000	867.846	750	876.212	500	898.542	100	1097.78	50	1162.52
Aroclor-1016 (4) [2C]	2500	544.512	1000	592.651	750	585.3333	500	612.552	100	753.38	50	791.42
Aroclor-1016 (5) [2C]	2500	560.7688	1000	611.874	750	598.0374	500	630.296	100	773.89	50	831.04
Aroclor-1221												
Aroclor-1221 (1)												
Aroclor-1221 (2)												
Aroclor-1221 (3)												
Aroclor-1221 (4)												
Aroclor-1221 (5)												
Aroclor-1221 [2C]												
Aroclor-1221 (1) [2C]												
Aroclor-1221 (2) [2C]												
Aroclor-1221 (3) [2C]												
Aroclor-1221 (4) [2C]												
Aroclor-1221 (5) [2C]												
Aroclor-1242												
Aroclor-1242 (1)												
Aroclor-1242 (2)												
Aroclor-1242 (3)												
Aroclor-1242 (4)												
Aroclor-1242 (5)												
Aroclor-1242 [2C]												

INITIAL CALIBRATION DATA

SW8082A

Laboratory:	Empirical Laboratories, LLC	SDG:	1109191
Client:	Tetra Tech NUS, Inc. (T010)	Project:	Navy Fuel Depot CTO JM46
Calibration:	1286006	Instrument:	GL-ECD3
Matrix:	Water	Calibration Dates:	11/24/10 20:08 10/10/11 21:37

Compound	Level 01		Level 02		Level 03		Level 04		Level 05		Level 06	
	ug/L	RF	ug/L	RF	ug/L	RF	ug/L	RF	ug/L	RF	ug/L	RF
Aroclor-1242 (1) [2C]												
Aroclor-1242 (2) [2C]												
Aroclor-1242 (3) [2C]												
Aroclor-1242 (4) [2C]												
Aroclor-1242 (5) [2C]												
Aroclor-1254												
Aroclor-1254 (1)												
Aroclor-1254 (2)												
Aroclor-1254 (3)												
Aroclor-1254 (4)												
Aroclor-1254 (5)												
Aroclor-1254 [2C]												
Aroclor-1254 (1) [2C]												
Aroclor-1254 (2) [2C]												
Aroclor-1254 (3) [2C]												
Aroclor-1254 (4) [2C]												
Aroclor-1254 (5) [2C]												
Aroclor-1260	2500	2304.061	1000	2312.261	750	2167.251	500	2235.512	100	2506.03	50	2399.48
Aroclor-1260 (1)	2500	4174.52	1000	4119.257	750	3854.752	500	3950.348	100	4353.65	50	4186.7
Aroclor-1260 (2)	2500	2173.332	1000	2187.683	750	2057.761	500	2132.812	100	2416.88	50	2348.58
Aroclor-1260 (3)	2500	2418.496	1000	2437.691	750	2278.393	500	2353.292	100	2652.37	50	2509.06
Aroclor-1260 (4)	2500	1711.609	1000	1737.872	750	1627.029	500	1692.942	100	1936.88	50	1828.56
Aroclor-1260 (5)	2500	1042.347	1000	1078.8	750	1018.316	500	1048.17	100	1170.37	50	1124.5
Aroclor-1260 [2C]	2500	1368.937	1000	1511.138	750	1451.055	500	1537.107	100	1912.354	50	1922.556
Aroclor-1260 (1) [2C]	2500	2134.062	1000	2360.478	750	2263.561	500	2397.774	100	2938.16	50	2883.2
Aroclor-1260 (2) [2C]	2500	1294.35	1000	1446.451	750	1378.733	500	1460.602	100	1806.38	50	1836.08
Aroclor-1260 (3) [2C]	2500	1175.427	1000	1301.931	750	1255.52	500	1336.508	100	1712.98	50	1784.08
Aroclor-1260 (4) [2C]	2500	1303.722	1000	1415.137	750	1364.815	500	1439.406	100	1789.37	50	1788.58
Aroclor-1260 (5) [2C]	2500	937.1228	1000	1031.695	750	992.644	500	1051.244	100	1314.88	50	1320.84
Aroclor-1268												
Aroclor-1268 (1)												

INITIAL CALIBRATION DATA

SW8082A

Laboratory:	Empirical Laboratories, LLC	SDG:	1109191
Client:	Tetra Tech NUS, Inc. (T010)	Project:	Navy Fuel Depot CTO JM46
Calibration:	1286006	Instrument:	GL-ECD3
Matrix:	Water	Calibration Dates:	11/24/10 20:08 10/10/11 21:37

Compound	Level 01		Level 02		Level 03		Level 04		Level 05		Level 06	
	ug/L	RF	ug/L	RF	ug/L	RF	ug/L	RF	ug/L	RF	ug/L	RF
Aroclor-1268 (2)												
Aroclor-1268 (3)												
Aroclor-1268 (4)												
Aroclor-1268 (5)												
Aroclor-1268 [2C]												
Aroclor-1268 (1) [2C]												
Aroclor-1268 (2) [2C]												
Aroclor-1268 (3) [2C]												
Aroclor-1268 (4) [2C]												
Aroclor-1268 (5) [2C]												
Tetrachloro-m-xylene	250		100		75		50		10		5	
Tetrachloro-m-xylene [2C]	250		100		75		50		10		5	
Decachlorobiphenyl	250		100		75		50		10		5	
Decachlorobiphenyl [2C]	250		100		75		50		10		5	

INITIAL CALIBRATION DATA (Continued)

SW8082A

Laboratory:	Empirical Laboratories, LLC	SDG:	1109191
Client:	Tetra Tech NUS, Inc. (T010)	Project:	Navy Fuel Depot CTO JM46
Calibration:	1286006	Instrument:	GL-ECD3
Matrix:	Water	Calibration Dates:	11/24/10 20:08 10/10/11 21:37

Compound	Level 07		Level 08		Level 09		Level 10		Level 11		Level 12	
	ug/L	RF	ug/L	RF	ug/L	RF	ug/L	RF	ug/L	RF	ug/L	RF
Aroclor-1016												
Aroclor-1016 (1)												
Aroclor-1016 (2)												
Aroclor-1016 (3)												
Aroclor-1016 (4)												
Aroclor-1016 (5)												
Aroclor-1016 [2C]												
Aroclor-1016 (1) [2C]												
Aroclor-1016 (2) [2C]												
Aroclor-1016 (3) [2C]												
Aroclor-1016 (4) [2C]												
Aroclor-1016 (5) [2C]												
Aroclor-1221												
Aroclor-1221 (1)												
Aroclor-1221 (2)												
Aroclor-1221 (3)												
Aroclor-1221 (4)												
Aroclor-1221 (5)												
Aroclor-1221 [2C]												
Aroclor-1221 (1) [2C]												
Aroclor-1221 (2) [2C]												
Aroclor-1221 (3) [2C]												
Aroclor-1221 (4) [2C]												
Aroclor-1221 (5) [2C]												
Aroclor-1242												
Aroclor-1242 (1)												
Aroclor-1242 (2)												
Aroclor-1242 (3)												
Aroclor-1242 (4)												
Aroclor-1242 (5)												
Aroclor-1242 [2C]												

INITIAL CALIBRATION DATA (Continued)

SW8082A

Laboratory: Empirical Laboratories, LLC
SDG: 1109191
Client: Tetra Tech NUS, Inc. (T010)
Project: Navy Fuel Depot CTO JM46
Calibration: 1286006
Instrument: GL-ECD3
Matrix: Water
Calibration Dates: 11/24/10 20:08 10/10/11 21:37

Compound	Level 07		Level 08		Level 09		Level 10		Level 11		Level 12	
	ug/L	RF	ug/L	RF	ug/L	RF	ug/L	RF	ug/L	RF	ug/L	RF
Aroclor-1242 (1) [2C]												
Aroclor-1242 (2) [2C]												
Aroclor-1242 (3) [2C]												
Aroclor-1242 (4) [2C]												
Aroclor-1242 (5) [2C]												
Aroclor-1254	50	1835.08	100	1738.566	500	1715.916	750	1670.54	1000	1645.41	2500	1638.573
Aroclor-1254 (1)	50	2306.88	100	2207.07	500	2189.214	750	2158.348	1000	2132.445	2500	2129.485
Aroclor-1254 (2)	50	796.12	100	768.45	500	737.254	750	709.86	1000	696.675	2500	679.1652
Aroclor-1254 (3)	50	2282.2	100	2148.03	500	2116.142	750	2038.368	1000	2013.552	2500	1994.815
Aroclor-1254 (4)	50	1855.8	100	1733.3	500	1702.33	750	1666.984	1000	1633.62	2500	1634.362
Aroclor-1254 (5)	50	1934.4	100	1835.98	500	1834.64	750	1779.139	1000	1750.76	2500	1755.035
Aroclor-1254 [2C]	50	1643.524	100	1519.946	500	1362.755	750	1289.972	1000	1244.311	2500	1122.28
Aroclor-1254 (1) [2C]	50	2094.2	100	1975.61	500	1772.714	750	1693.875	1000	1620.706	2500	1465.687
Aroclor-1254 (2) [2C]	50	1712	100	1588.89	500	1415.624	750	1334.785	1000	1290.341	2500	1152.224
Aroclor-1254 (3) [2C]	50	1463.64	100	1338	500	1219.818	750	1153.868	1000	1115.093	2500	997.996
Aroclor-1254 (4) [2C]	50	1105.04	100	1010.59	500	910.824	750	863.8027	1000	835.265	2500	745.0544
Aroclor-1254 (5) [2C]	50	1842.74	100	1686.64	500	1494.796	750	1403.527	1000	1360.15	2500	1250.438
Aroclor-1260												
Aroclor-1260 (1)												
Aroclor-1260 (2)												
Aroclor-1260 (3)												
Aroclor-1260 (4)												
Aroclor-1260 (5)												
Aroclor-1260 [2C]												
Aroclor-1260 (1) [2C]												
Aroclor-1260 (2) [2C]												
Aroclor-1260 (3) [2C]												
Aroclor-1260 (4) [2C]												
Aroclor-1260 (5) [2C]												
Aroclor-1268												
Aroclor-1268 (1)												

INITIAL CALIBRATION DATA (Continued)

SW8082A

Laboratory:	Empirical Laboratories, LLC	SDG:	1109191
Client:	Tetra Tech NUS, Inc. (T010)	Project:	Navy Fuel Depot CTO JM46
Calibration:	1286006	Instrument:	GL-ECD3
Matrix:	Water	Calibration Dates:	11/24/10 20:08 10/10/11 21:37

Compound	Level 07		Level 08		Level 09		Level 10		Level 11		Level 12	
	ug/L	RF	ug/L	RF	ug/L	RF	ug/L	RF	ug/L	RF	ug/L	RF
Aroclor-1268 (2)												
Aroclor-1268 (3)												
Aroclor-1268 (4)												
Aroclor-1268 (5)												
Aroclor-1268 [2C]												
Aroclor-1268 (1) [2C]												
Aroclor-1268 (2) [2C]												
Aroclor-1268 (3) [2C]												
Aroclor-1268 (4) [2C]												
Aroclor-1268 (5) [2C]												
Tetrachloro-m-xylene	5		10		50		75		100		250	
Tetrachloro-m-xylene [2C]	5		10		50		75		100		250	
Decachlorobiphenyl	5		10		50		75		100		250	
Decachlorobiphenyl [2C]	5		10		50		75		100		250	

INITIAL CALIBRATION DATA (Continued)

SW8082A

Laboratory:	Empirical Laboratories, LLC		SDG:	1109191	
Client:	Tetra Tech NUS, Inc. (T010)		Project:	Navy Fuel Depot CTO JM46	
Calibration:	1286006		Instrument:	GL-ECD3	
Matrix:	Water		Calibration Dates:	11/24/10 20:08	10/10/11 21:37

Compound	Level 13		Level 14		Level 15		Level 16		Level 17		Level 18	
	ug/L	RF	ug/L	RF	ug/L	RF	ug/L	RF	ug/L	RF	ug/L	RF
Aroclor-1016												
Aroclor-1016 (1)												
Aroclor-1016 (2)												
Aroclor-1016 (3)												
Aroclor-1016 (4)												
Aroclor-1016 (5)												
Aroclor-1016 [2C]												
Aroclor-1016 (1) [2C]												
Aroclor-1016 (2) [2C]												
Aroclor-1016 (3) [2C]												
Aroclor-1016 (4) [2C]												
Aroclor-1016 (5) [2C]												
Aroclor-1221												
Aroclor-1221 (1)												
Aroclor-1221 (2)												
Aroclor-1221 (3)												
Aroclor-1221 (4)												
Aroclor-1221 (5)												
Aroclor-1221 [2C]												
Aroclor-1221 (1) [2C]												
Aroclor-1221 (2) [2C]												
Aroclor-1221 (3) [2C]												
Aroclor-1221 (4) [2C]												
Aroclor-1221 (5) [2C]												
Aroclor-1242												
Aroclor-1242 (1)												
Aroclor-1242 (2)												
Aroclor-1242 (3)												
Aroclor-1242 (4)												
Aroclor-1242 (5)												
Aroclor-1242 [2C]												

INITIAL CALIBRATION DATA (Continued)

SW8082A

Laboratory:	Empirical Laboratories, LLC		SDG:	1109191	
Client:	Tetra Tech NUS, Inc. (T010)		Project:	Navy Fuel Depot CTO JM46	
Calibration:	1286006		Instrument:	GL-ECD3	
Matrix:	Water		Calibration Dates:	11/24/10 20:08	10/10/11 21:37

Compound	Level 13		Level 14		Level 15		Level 16		Level 17		Level 18	
	ug/L	RF	ug/L	RF	ug/L	RF	ug/L	RF	ug/L	RF	ug/L	RF
Aroclor-1242 (1) [2C]												
Aroclor-1242 (2) [2C]												
Aroclor-1242 (3) [2C]												
Aroclor-1242 (4) [2C]												
Aroclor-1242 (5) [2C]												
Aroclor-1254												
Aroclor-1254 (1)												
Aroclor-1254 (2)												
Aroclor-1254 (3)												
Aroclor-1254 (4)												
Aroclor-1254 (5)												
Aroclor-1254 [2C]												
Aroclor-1254 (1) [2C]												
Aroclor-1254 (2) [2C]												
Aroclor-1254 (3) [2C]												
Aroclor-1254 (4) [2C]												
Aroclor-1254 (5) [2C]												
Aroclor-1260												
Aroclor-1260 (1)												
Aroclor-1260 (2)												
Aroclor-1260 (3)												
Aroclor-1260 (4)												
Aroclor-1260 (5)												
Aroclor-1260 [2C]												
Aroclor-1260 (1) [2C]												
Aroclor-1260 (2) [2C]												
Aroclor-1260 (3) [2C]												
Aroclor-1260 (4) [2C]												
Aroclor-1260 (5) [2C]												
Aroclor-1268												
Aroclor-1268 (1)												

INITIAL CALIBRATION DATA (Continued)

SW8082A

Laboratory:	Empirical Laboratories, LLC	SDG:	1109191
Client:	Tetra Tech NUS, Inc. (T010)	Project:	Navy Fuel Depot CTO JM46
Calibration:	1286006	Instrument:	GL-ECD3
Matrix:	Water	Calibration Dates:	11/24/10 20:08 10/10/11 21:37

Compound	Level 13		Level 14		Level 15		Level 16		Level 17		Level 18	
	ug/L	RF	ug/L	RF	ug/L	RF	ug/L	RF	ug/L	RF	ug/L	RF
Aroclor-1268 (2)												
Aroclor-1268 (3)												
Aroclor-1268 (4)												
Aroclor-1268 (5)												
Aroclor-1268 [2C]												
Aroclor-1268 (1) [2C]												
Aroclor-1268 (2) [2C]												
Aroclor-1268 (3) [2C]												
Aroclor-1268 (4) [2C]												
Aroclor-1268 (5) [2C]												
Tetrachloro-m-xylene	200	38106.29	100	37581.37	50	36962.48	25	37949.2	10	36755.6	5	35353
Tetrachloro-m-xylene [2C]	200	31738.79	100	33692.32	50	34968.94	25	37009.72	10	37847.6	5	37074.8
Decachlorobiphenyl	200	35647.94	100	34447.06	50	34026.18	25	34903.36	10	35790.3	5	36222.6
Decachlorobiphenyl [2C]	200	26149.9	100	26407.68	50	26939.58	25	28082.16	10	29359.1	5	30235.4

INITIAL CALIBRATION DATA (Continued)

SW8082A

Laboratory:	Empirical Laboratories, LLC	SDG:	1109191
Client:	Tetra Tech NUS, Inc. (T010)	Project:	Navy Fuel Depot CTO JM46
Calibration:	1286006	Instrument:	GL-ECD3
Matrix:	Water	Calibration Dates:	11/24/10 20:08 10/10/11 21:37

Compound	Level 19		Level 20		Level 21		Level 22		Level 23		Level 24	
	ug/L	RF	ug/L	RF	ug/L	RF	ug/L	RF	ug/L	RF	ug/L	RF
Aroclor-1016												
Aroclor-1016 (1)												
Aroclor-1016 (2)												
Aroclor-1016 (3)												
Aroclor-1016 (4)												
Aroclor-1016 (5)												
Aroclor-1016 [2C]												
Aroclor-1016 (1) [2C]												
Aroclor-1016 (2) [2C]												
Aroclor-1016 (3) [2C]												
Aroclor-1016 (4) [2C]												
Aroclor-1016 (5) [2C]												
Aroclor-1221												
Aroclor-1221 (1)												
Aroclor-1221 (2)												
Aroclor-1221 (3)												
Aroclor-1221 (4)												
Aroclor-1221 (5)												
Aroclor-1221 [2C]												
Aroclor-1221 (1) [2C]												
Aroclor-1221 (2) [2C]												
Aroclor-1221 (3) [2C]												
Aroclor-1221 (4) [2C]												
Aroclor-1221 (5) [2C]												
Aroclor-1242												
Aroclor-1242 (1)												
Aroclor-1242 (2)												
Aroclor-1242 (3)												
Aroclor-1242 (4)												
Aroclor-1242 (5)												
Aroclor-1242 [2C]												

INITIAL CALIBRATION DATA (Continued)

SW8082A

Laboratory:	Empirical Laboratories, LLC		SDG:	1109191	
Client:	Tetra Tech NUS, Inc. (T010)		Project:	Navy Fuel Depot CTO JM46	
Calibration:	1286006		Instrument:	GL-ECD3	
Matrix:	Water		Calibration Dates:	11/24/10 20:08	10/10/11 21:37

Compound	Level 19		Level 20		Level 21		Level 22		Level 23		Level 24	
	ug/L	RF	ug/L	RF	ug/L	RF	ug/L	RF	ug/L	RF	ug/L	RF
Aroclor-1242 (1) [2C]												
Aroclor-1242 (2) [2C]												
Aroclor-1242 (3) [2C]												
Aroclor-1242 (4) [2C]												
Aroclor-1242 (5) [2C]												
Aroclor-1254												
Aroclor-1254 (1)												
Aroclor-1254 (2)												
Aroclor-1254 (3)												
Aroclor-1254 (4)												
Aroclor-1254 (5)												
Aroclor-1254 [2C]												
Aroclor-1254 (1) [2C]												
Aroclor-1254 (2) [2C]												
Aroclor-1254 (3) [2C]												
Aroclor-1254 (4) [2C]												
Aroclor-1254 (5) [2C]												
Aroclor-1260												
Aroclor-1260 (1)												
Aroclor-1260 (2)												
Aroclor-1260 (3)												
Aroclor-1260 (4)												
Aroclor-1260 (5)												
Aroclor-1260 [2C]												
Aroclor-1260 (1) [2C]												
Aroclor-1260 (2) [2C]												
Aroclor-1260 (3) [2C]												
Aroclor-1260 (4) [2C]												
Aroclor-1260 (5) [2C]												
Aroclor-1268												
Aroclor-1268 (1)												

INITIAL CALIBRATION DATA (Continued)

SW8082A

Laboratory:	Empirical Laboratories, LLC	SDG:	1109191	
Client:	Tetra Tech NUS, Inc. (T010)	Project:	Navy Fuel Depot CTO JM46	
Calibration:	1286006	Instrument:	GL-ECD3	
Matrix:	Water	Calibration Dates:	11/24/10 20:08	10/10/11 21:37

Compound	Level 19		Level 20		Level 21		Level 22		Level 23		Level 24	
	ug/L	RF	ug/L	RF	ug/L	RF	ug/L	RF	ug/L	RF	ug/L	RF
Aroclor-1268 (2)												
Aroclor-1268 (3)												
Aroclor-1268 (4)												
Aroclor-1268 (5)												
Aroclor-1268 [2C]												
Aroclor-1268 (1) [2C]												
Aroclor-1268 (2) [2C]												
Aroclor-1268 (3) [2C]												
Aroclor-1268 (4) [2C]												
Aroclor-1268 (5) [2C]												
Tetrachloro-m-xylene	1	41012										
Tetrachloro-m-xylene [2C]	1	45751										
Decachlorobiphenyl	1	50907										
Decachlorobiphenyl [2C]	1	44181										

INITIAL CALIBRATION DATA (Continued)

SW8082A

Laboratory:	Empirical Laboratories, LLC	SDG:	1109191
Client:	Tetra Tech NUS, Inc. (T010)	Project:	Navy Fuel Depot CTO JM46
Calibration:	1286006	Instrument:	GL-ECD3
Matrix:	Water	Calibration Dates:	11/24/10 20:08 10/10/11 21:37

Compound	Level 25		Level 26		Level 27		Level 28		Level 29		Level 30	
	ug/L	RF	ug/L	RF	ug/L	RF	ug/L	RF	ug/L	RF	ug/L	RF
Aroclor-1016												
Aroclor-1016 (1)												
Aroclor-1016 (2)												
Aroclor-1016 (3)												
Aroclor-1016 (4)												
Aroclor-1016 (5)												
Aroclor-1016 [2C]												
Aroclor-1016 (1) [2C]												
Aroclor-1016 (2) [2C]												
Aroclor-1016 (3) [2C]												
Aroclor-1016 (4) [2C]												
Aroclor-1016 (5) [2C]												
Aroclor-1221												
Aroclor-1221 (1)												
Aroclor-1221 (2)												
Aroclor-1221 (3)												
Aroclor-1221 (4)												
Aroclor-1221 (5)												
Aroclor-1221 [2C]												
Aroclor-1221 (1) [2C]												
Aroclor-1221 (2) [2C]												
Aroclor-1221 (3) [2C]												
Aroclor-1221 (4) [2C]												
Aroclor-1221 (5) [2C]												
Aroclor-1242												
Aroclor-1242 (1)												
Aroclor-1242 (2)												
Aroclor-1242 (3)												
Aroclor-1242 (4)												
Aroclor-1242 (5)												
Aroclor-1242 [2C]												

INITIAL CALIBRATION DATA (Continued)

SW8082A

Laboratory:	Empirical Laboratories, LLC	SDG:	1109191	
Client:	Tetra Tech NUS, Inc. (T010)	Project:	Navy Fuel Depot CTO JM46	
Calibration:	1286006	Instrument:	GL-ECD3	
Matrix:	Water	Calibration Dates:	11/24/10 20:08	10/10/11 21:37

Compound	Level 25		Level 26		Level 27		Level 28		Level 29		Level 30	
	ug/L	RF	ug/L	RF	ug/L	RF	ug/L	RF	ug/L	RF	ug/L	RF
Aroclor-1242 (1) [2C]												
Aroclor-1242 (2) [2C]												
Aroclor-1242 (3) [2C]												
Aroclor-1242 (4) [2C]												
Aroclor-1242 (5) [2C]												
Aroclor-1254												
Aroclor-1254 (1)												
Aroclor-1254 (2)												
Aroclor-1254 (3)												
Aroclor-1254 (4)												
Aroclor-1254 (5)												
Aroclor-1254 [2C]												
Aroclor-1254 (1) [2C]												
Aroclor-1254 (2) [2C]												
Aroclor-1254 (3) [2C]												
Aroclor-1254 (4) [2C]												
Aroclor-1254 (5) [2C]												
Aroclor-1260												
Aroclor-1260 (1)												
Aroclor-1260 (2)												
Aroclor-1260 (3)												
Aroclor-1260 (4)												
Aroclor-1260 (5)												
Aroclor-1260 [2C]												
Aroclor-1260 (1) [2C]												
Aroclor-1260 (2) [2C]												
Aroclor-1260 (3) [2C]												
Aroclor-1260 (4) [2C]												
Aroclor-1260 (5) [2C]												
Aroclor-1268												
Aroclor-1268 (1)												

INITIAL CALIBRATION DATA (Continued)

SW8082A

Laboratory:	Empirical Laboratories, LLC	SDG:	1109191	
Client:	Tetra Tech NUS, Inc. (T010)	Project:	Navy Fuel Depot CTO JM46	
Calibration:	1286006	Instrument:	GL-ECD3	
Matrix:	Water	Calibration Dates:	11/24/10 20:08	10/10/11 21:37

Compound	Level 25		Level 26		Level 27		Level 28		Level 29		Level 30	
	ug/L	RF	ug/L	RF	ug/L	RF	ug/L	RF	ug/L	RF	ug/L	RF
Aroclor-1268 (2)												
Aroclor-1268 (3)												
Aroclor-1268 (4)												
Aroclor-1268 (5)												
Aroclor-1268 [2C]												
Aroclor-1268 (1) [2C]												
Aroclor-1268 (2) [2C]												
Aroclor-1268 (3) [2C]												
Aroclor-1268 (4) [2C]												
Aroclor-1268 (5) [2C]												
Tetrachloro-m-xylene												
Tetrachloro-m-xylene [2C]												
Decachlorobiphenyl												
Decachlorobiphenyl [2C]												

INITIAL CALIBRATION DATA (Continued)

SW8082A

Laboratory:	Empirical Laboratories, LLC	SDG:	1109191
Client:	Tetra Tech NUS, Inc. (T010)	Project:	Navy Fuel Depot CTO JM46
Calibration:	1286006	Instrument:	GL-ECD3
Matrix:	Water	Calibration Dates:	11/24/10 20:08 10/10/11 21:37

Compound	Level 31		Level 32		Level 33		Level 34		Level 35		Level 36	
	ug/L	RF	ug/L	RF	ug/L	RF	ug/L	RF	ug/L	RF	ug/L	RF
Aroclor-1016												
Aroclor-1016 (1)												
Aroclor-1016 (2)												
Aroclor-1016 (3)												
Aroclor-1016 (4)												
Aroclor-1016 (5)												
Aroclor-1016 [2C]												
Aroclor-1016 (1) [2C]												
Aroclor-1016 (2) [2C]												
Aroclor-1016 (3) [2C]												
Aroclor-1016 (4) [2C]												
Aroclor-1016 (5) [2C]												
Aroclor-1221			2500	307532	1000	333316.4	750	320409.6	500	348046	100	378792
Aroclor-1221 (1)			2500	728923.6	1000	778165	750	723902.6	500	802690	100	824840
Aroclor-1221 (2)			2500	216062.4	1000	237462	750	244377.3	500	257578	100	311960
Aroclor-1221 (3)			2500	104058	1000	121292	750	128961.3	500	132516	100	159070
Aroclor-1221 (4)			2500	300668.4	1000	322243	750	314241.3	500	330856	100	362630
Aroclor-1221 (5)			2500	187947.6	1000	207420	750	190565.3	500	216590	100	235460
Aroclor-1221 [2C]			2500	303385.7	1000	330077.8	750	338338.9	500	356715.6	100	437050
Aroclor-1221 (1) [2C]			2500	664010.4	1000	719811	750	733489.3	500	776988	100	935640
Aroclor-1221 (2) [2C]			2500	223760.4	1000	246313	750	255236	500	272496	100	365590
Aroclor-1221 (3) [2C]			2500	116794	1000	128145	750	134201.3	500	140266	100	170860
Aroclor-1221 (4) [2C]			2500	322662.8	1000	347962	750	355941.3	500	370240	100	441340
Aroclor-1221 (5) [2C]			2500	189701.2	1000	208158	750	212826.7	500	223588	100	271820
Aroclor-1242												
Aroclor-1242 (1)												
Aroclor-1242 (2)												
Aroclor-1242 (3)												
Aroclor-1242 (4)												
Aroclor-1242 (5)												
Aroclor-1242 [2C]												

INITIAL CALIBRATION DATA (Continued)

SW8082A

Laboratory:	Empirical Laboratories, LLC		SDG:	1109191	
Client:	Tetra Tech NUS, Inc. (T010)		Project:	Navy Fuel Depot CTO JM46	
Calibration:	1286006		Instrument:	GL-ECD3	
Matrix:	Water		Calibration Dates:	11/24/10 20:08	10/10/11 21:37

Compound	Level 31		Level 32		Level 33		Level 34		Level 35		Level 36	
	ug/L	RF	ug/L	RF	ug/L	RF	ug/L	RF	ug/L	RF	ug/L	RF
Aroclor-1242 (1) [2C]												
Aroclor-1242 (2) [2C]												
Aroclor-1242 (3) [2C]												
Aroclor-1242 (4) [2C]												
Aroclor-1242 (5) [2C]												
Aroclor-1254												
Aroclor-1254 (1)												
Aroclor-1254 (2)												
Aroclor-1254 (3)												
Aroclor-1254 (4)												
Aroclor-1254 (5)												
Aroclor-1254 [2C]												
Aroclor-1254 (1) [2C]												
Aroclor-1254 (2) [2C]												
Aroclor-1254 (3) [2C]												
Aroclor-1254 (4) [2C]												
Aroclor-1254 (5) [2C]												
Aroclor-1260												
Aroclor-1260 (1)												
Aroclor-1260 (2)												
Aroclor-1260 (3)												
Aroclor-1260 (4)												
Aroclor-1260 (5)												
Aroclor-1260 [2C]												
Aroclor-1260 (1) [2C]												
Aroclor-1260 (2) [2C]												
Aroclor-1260 (3) [2C]												
Aroclor-1260 (4) [2C]												
Aroclor-1260 (5) [2C]												
Aroclor-1268												
Aroclor-1268 (1)												

INITIAL CALIBRATION DATA (Continued)

SW8082A

Laboratory:	Empirical Laboratories, LLC	SDG:	1109191	
Client:	Tetra Tech NUS, Inc. (T010)	Project:	Navy Fuel Depot CTO JM46	
Calibration:	1286006	Instrument:	GL-ECD3	
Matrix:	Water	Calibration Dates:	11/24/10 20:08	10/10/11 21:37

Compound	Level 31		Level 32		Level 33		Level 34		Level 35		Level 36	
	ug/L	RF	ug/L	RF	ug/L	RF	ug/L	RF	ug/L	RF	ug/L	RF
Aroclor-1268 (2)												
Aroclor-1268 (3)												
Aroclor-1268 (4)												
Aroclor-1268 (5)												
Aroclor-1268 [2C]												
Aroclor-1268 (1) [2C]												
Aroclor-1268 (2) [2C]												
Aroclor-1268 (3) [2C]												
Aroclor-1268 (4) [2C]												
Aroclor-1268 (5) [2C]												
Tetrachloro-m-xylene												
Tetrachloro-m-xylene [2C]												
Decachlorobiphenyl												
Decachlorobiphenyl [2C]												

INITIAL CALIBRATION DATA (Continued)
SW8082A

Laboratory:	Empirical Laboratories, LLC	SDG:	1109191
Client:	Tetra Tech NUS, Inc. (T010)	Project:	Navy Fuel Depot CTO JM46
Calibration:	1286006	Instrument:	GL-ECD3
Matrix:	Water	Calibration Dates:	11/24/10 20:08 10/10/11 21:37

Compound	Level 37		Level 38		Level 39		Level 40		Level 41		Level 42	
	ug/L	RF	ug/L	RF	ug/L	RF	ug/L	RF	ug/L	RF	ug/L	RF
Aroclor-1016												
Aroclor-1016 (1)												
Aroclor-1016 (1) [2C]												
Aroclor-1016 (2)												
Aroclor-1016 (2) [2C]												
Aroclor-1016 (3)												
Aroclor-1016 (3) [2C]												
Aroclor-1016 (4)												
Aroclor-1016 (4) [2C]												
Aroclor-1016 (5)												
Aroclor-1016 (5) [2C]												
Aroclor-1016 [2C]												
Aroclor-1221	50	396.84										
Aroclor-1221 (1)	50	849.84										
Aroclor-1221 (1) [2C]	50	999.46										
Aroclor-1221 (2)	50	350.5										
Aroclor-1221 (2) [2C]	50	395.28										
Aroclor-1221 (3)	50	167.7										
Aroclor-1221 (3) [2C]	50	182.74										
Aroclor-1221 (4)	50	373.22										
Aroclor-1221 (4) [2C]	50	459.36										
Aroclor-1221 (5)	50	242.94										
Aroclor-1221 (5) [2C]	50	286										
Aroclor-1221 [2C]	50	464.568										
Aroclor-1242			2500	714.6152	1000	773.864	750	766.4409	500	800.142	100	839.58
Aroclor-1242 (1)			2500	1153.122	1000	1206.357	750	1152.667	500	1176.62	100	1132.34
Aroclor-1242 (1) [2C]			2500	1004.368	1000	1128.679	750	1186.243	500	1272.788	100	1376.57
Aroclor-1242 (2)			2500	661.4412	1000	716.351	750	737.4827	500	749.32	100	761.54
Aroclor-1242 (2) [2C]			2500	393.898	1000	438.104	750	454.1413	500	484.81	100	531.97
Aroclor-1242 (3)			2500	656.1024	1000	734.123	750	751.2386	500	812.104	100	984.35
Aroclor-1242 (3) [2C]			2500	765.3696	1000	814.241	750	874.14	500	894.472	100	984.68

INITIAL CALIBRATION DATA (Continued)
SW8082A

Laboratory: Empirical Laboratories, LLC
SDG: 1109191
Client: Tetra Tech NUS, Inc. (T010)
Project: Navy Fuel Depot CTO JM46
Calibration: 1286006
Instrument: GL-ECD3
Matrix: Water
Calibration Dates: 11/24/10 20:08 10/10/11 21:37

Compound	Level 37		Level 38		Level 39		Level 40		Level 41		Level 42	
	ug/L	RF	ug/L	RF	ug/L	RF	ug/L	RF	ug/L	RF	ug/L	RF
Aroclor-1242 (4)			2500	506.5976	1000	569.426	750	558.7454	500	596.908	100	686.11
Aroclor-1242 (4) [2C]			2500	737.3052	1000	827.079	750	907.6013	500	978.762	100	1046.56
Aroclor-1242 (5)			2500	595.8128	1000	643.063	750	632.0707	500	665.758	100	633.56
Aroclor-1242 (5) [2C]			2500	665.342	1000	713.173	750	750.8666	500	807.302	100	883.14
Aroclor-1242 [2C]			2500	713.2564	1000	784.2552	750	834.5984	500	887.6268	100	964.584
Aroclor-1254												
Aroclor-1254 (1)												
Aroclor-1254 (1) [2C]												
Aroclor-1254 (2)												
Aroclor-1254 (2) [2C]												
Aroclor-1254 (3)												
Aroclor-1254 (3) [2C]												
Aroclor-1254 (4)												
Aroclor-1254 (4) [2C]												
Aroclor-1254 (5)												
Aroclor-1254 (5) [2C]												
Aroclor-1254 [2C]												
Aroclor-1260												
Aroclor-1260 (1)												
Aroclor-1260 (1) [2C]												
Aroclor-1260 (2)												
Aroclor-1260 (2) [2C]												
Aroclor-1260 (3)												
Aroclor-1260 (3) [2C]												
Aroclor-1260 (4)												
Aroclor-1260 (4) [2C]												
Aroclor-1260 (5)												
Aroclor-1260 (5) [2C]												
Aroclor-1260 [2C]												
Aroclor-1268												
Aroclor-1268 (1)												

INITIAL CALIBRATION DATA (Continued)

SW8082A

Laboratory:	Empirical Laboratories, LLC	SDG:	1109191	
Client:	Tetra Tech NUS, Inc. (T010)	Project:	Navy Fuel Depot CTO JM46	
Calibration:	1286006	Instrument:	GL-ECD3	
Matrix:	Water	Calibration Dates:	11/24/10 20:08	10/10/11 21:37

Compound	Level 37		Level 38		Level 39		Level 40		Level 41		Level 42	
	ug/L	RF	ug/L	RF	ug/L	RF	ug/L	RF	ug/L	RF	ug/L	RF
Aroclor-1268 (1) [2C]												
Aroclor-1268 (2)												
Aroclor-1268 (2) [2C]												
Aroclor-1268 (3)												
Aroclor-1268 (3) [2C]												
Aroclor-1268 (4)												
Aroclor-1268 (4) [2C]												
Aroclor-1268 (5)												
Aroclor-1268 (5) [2C]												
Aroclor-1268 [2C]												
Decachlorobiphenyl												
Decachlorobiphenyl [2C]												
Tetrachloro-m-xylene												
Tetrachloro-m-xylene [2C]												

INITIAL CALIBRATION DATA (Continued)

SW8082A

Laboratory:	Empirical Laboratories, LLC	SDG:	1109191
Client:	Tetra Tech NUS, Inc. (T010)	Project:	Navy Fuel Depot CTO JM46
Calibration:	1286006	Instrument:	GL-ECD3
Matrix:	Water	Calibration Dates:	11/24/10 20:08 10/10/11 21:37

Compound	Mean RF	RF RSD	Mean RT	RT RSD	Linear r	Quad COD	LIMIT	Q
Aroclor-1016	1086.482	7.382581	7.696667	1.181709E-02			20	
Aroclor-1016 (1)	1719.155	8.695351	7.507	1.616572E-02			20	
Aroclor-1016 (2)	841.0747	6.897483	6.939833	1.516496E-02			20	
Aroclor-1016 (3)	813.2131	5.836037	7.1625	1.046833E-02			20	
Aroclor-1016 (4)	1232.628	7.826969	7.480167	1.264096E-02			20	
Aroclor-1016 (5)	826.3383	6.743423	7.696667	1.181709E-02			20	
Aroclor-1016 [2C]	834.053	16.28738	6.989666	8.416166E-03			20	
Aroclor-1016 (1) [2C]	1218.203	17.94857	6.683167	2.045933E-02			20	
Aroclor-1016 (2) [2C]	686.3446	15.89462	6.405667	1.793878E-02			20	
Aroclor-1016 (3) [2C]	951.4247	15.06136	6.662167	2.326798E-02			20	
Aroclor-1016 (4) [2C]	646.6414	15.56012	6.891167	1.621363E-02			20	
Aroclor-1016 (5) [2C]	667.651	16.23689	6.989666	8.416166E-03			20	
Aroclor-1221	347.4893	9.924339	5.7135	4.536247E-02			20	
Aroclor-1221 (1)	784.7269	6.504846	5.7135	4.536247E-02			20	
Aroclor-1221 (2)	269.6566	18.92312	4.818833	5.276151E-02			20	
Aroclor-1221 (3)	135.5996	17.55865	5.322	5.949774E-02			20	
Aroclor-1221 (4)	333.9765	8.476765	5.551167	5.769338E-02			20	
Aroclor-1221 (5)	213.4872	10.62871	5.638167	4.761936E-02			20	
Aroclor-1221 [2C]	371.6894	17.28238	4.621167	2.395263E-02			20	
Aroclor-1221 (1) [2C]	804.8998	16.47422	4.621167	2.395263E-02			20	
Aroclor-1221 (2) [2C]	293.1126	23.90633	3.882667	0.0386834			20	*
Aroclor-1221 (3) [2C]	145.5011	17.6839	4.319833	2.417878E-02			20	
Aroclor-1221 (4) [2C]	382.9177	14.30278	4.487667	2.750918E-02			20	
Aroclor-1221 (5) [2C]	232.0156	16.46603	4.557667	2.353323E-02			20	
Aroclor-1242	791.4603	6.481551	7.114	2.068065E-02			20	
Aroclor-1242 (1)	1175.404	3.172852	6.611	5.346339E-02			20	
Aroclor-1242 (2)	739.2291	6.648799	6.2935	1.573445E-02			20	
Aroclor-1242 (3)	828.5963	18.00172	6.782333	3.062254E-02			20	
Aroclor-1242 (4)	598.9812	11.70324	6.888667	2.426782E-02			20	
Aroclor-1242 (5)	615.0907	8.397498	7.114	2.068065E-02			20	
Aroclor-1242 [2C]	874.1401	14.34553	6.077667	0.0297564			20	
Aroclor-1242 (1) [2C]	1245.915	14.42601	5.314833	9.833187E-03			20	

INITIAL CALIBRATION DATA (Continued)

SW8082A

Laboratory:	Empirical Laboratories, LLC	SDG:	1109191
Client:	Tetra Tech NUS, Inc. (T010)	Project:	Navy Fuel Depot CTO JM46
Calibration:	1286006	Instrument:	GL-ECD3
Matrix:	Water	Calibration Dates:	11/24/10 20:08 10/10/11 21:37

Compound	Mean RF	RF RSD	Mean RT	RT RSD	Linear r	Quad COD	LIMIT	Q
Aroclor-1242 (2) [2C]	485.7606	15.86386	4.645833	2.298644E-02			20	
Aroclor-1242 (3) [2C]	900.7638	12.44385	5.294	1.873726E-02			20	
Aroclor-1242 (4) [2C]	940.3279	15.74699	5.353667	2.229515E-02			20	
Aroclor-1242 (5) [2C]	797.9339	14.08717	6.077667	0.0297564			20	
Aroclor-1254	1707.347	4.326653	10.15817	1.944162E-02			20	
Aroclor-1254 (1)	2187.24	3.024677	9.254667	1.826903E-02			20	
Aroclor-1254 (2)	731.254	6.11381	7.810667	9.312323E-03			20	
Aroclor-1254 (3)	2098.851	5.135603	8.795333	1.043912E-02			20	
Aroclor-1254 (4)	1704.399	4.914188	9.62	6.474001E-03			20	
Aroclor-1254 (5)	1814.992	3.824426	10.15817	1.944162E-02			20	
Aroclor-1254 [2C]	1363.798	13.93896	9.131333	7.810192E-03	0.9970381		0.995	
Aroclor-1254 (1) [2C]	1770.465	13.0785	8.3075	1.097712E-03			20	
Aroclor-1254 (2) [2C]	1415.644	14.45847	7.6225	1.239695E-02			20	
Aroclor-1254 (3) [2C]	1214.736	13.66567	7.804333	1.632193E-02			20	
Aroclor-1254 (4) [2C]	911.7627	14.13673	8.472666	2.276172E-02			20	
Aroclor-1254 (5) [2C]	1506.382	14.64173	9.131333	7.810192E-03			20	
Aroclor-1260	2320.766	5.160111	12.07133	8.489679E-03			20	
Aroclor-1260 (1)	4106.538	4.356999	10.95217	3.799964E-03			20	
Aroclor-1260 (2)	2219.508	6.12611	9.799333	1.940447E-02			20	
Aroclor-1260 (3)	2441.55	5.307402	10.1575	0.0177201			20	
Aroclor-1260 (4)	1755.815	6.285123	10.26133	1.233625E-02			20	
Aroclor-1260 (5)	1080.417	5.298136	12.07133	8.489679E-03			20	
Aroclor-1260 [2C]	1617.191	14.8215	9.829667	1.210242E-02			20	
Aroclor-1260 (1) [2C]	2496.206	13.38858	9.829667	1.210242E-02			20	
Aroclor-1260 (2) [2C]	1537.099	14.83478	8.7125	1.246643E-02			20	
Aroclor-1260 (3) [2C]	1427.741	17.87927	8.906167	1.344607E-02			20	
Aroclor-1260 (4) [2C]	1516.838	14.23116	9.129667	1.585641E-02			20	
Aroclor-1260 (5) [2C]	1108.071	15.0823	9.513	0.0128168			20	
Aroclor-1268	4950.131	5.884554	11.3085	1.188354E-02			20	
Aroclor-1268 (1)	10633.26	7.456442	11.3085	1.188354E-02			20	
Aroclor-1268 (2)	4906.048	5.456476	10.2125	1.012895E-02			20	
Aroclor-1268 (3)	4157.727	4.834059	10.31367	0.0165684			20	

INITIAL CALIBRATION DATA (Continued)

SW8082A

Laboratory:	Empirical Laboratories, LLC		SDG:	1109191	
Client:	Tetra Tech NUS, Inc. (T010)		Project:	Navy Fuel Depot CTO JM46	
Calibration:	1286006		Instrument:	GL-ECD3	
Matrix:	Water		Calibration Dates:	11/24/10 20:08	10/10/11 21:37

Compound	Mean RF	RF RSD	Mean RT	RT RSD	Linear r	Quad COD	LIMIT	Q
Aroclor-1268 (4)	3544.431	4.935248	10.54033	0.0108443			20	
Aroclor-1268 (5)	1509.183	4.2704	10.9575	1.378519E-02			20	
Aroclor-1268 [2C]	2609.566	9.647623	9.6885	5.674121E-03			20	
Aroclor-1268 (1) [2C]	5435.372	9.304561	9.6885	5.674121E-03			20	
Aroclor-1268 (2) [2C]	2529.701	10.17003	8.657166	1.145883E-02			20	
Aroclor-1268 (3) [2C]	2239.34	9.177625	8.736334	9.409822E-03			20	
Aroclor-1268 (4) [2C]	1942.012	10.40219	8.974167	8.895803E-03			20	
Aroclor-1268 (5) [2C]	901.405	10.01399	9.357	1.944801E-02			20	
Tetrachloro-m-xylene	37674.28	4.616576	5.741857	1.602179E-02			20	
Tetrachloro-m-xylene [2C]	36869.02	12.12627	5.084429	2.045503E-02			20	
Decachlorobiphenyl	37420.63	16.02721	12.17614	1.669349E-02			20	
Decachlorobiphenyl [2C]	30193.55	21.03715	11.09257	9.165985E-03	0.9999551		0.995	

INITIAL CALIBRATION CHECK

SW8082A

Laboratory:	Empirical Laboratories, LLC	SDG:	1109191
Client:	Tetra Tech NUS, Inc. (T010)	Project:	Navy Fuel Depot CTO JM46
Instrument ID:	GL-ECD3	Calibration:	1275001
Lab File ID:	031F3101.D	Calibration Date:	09/28/11 00:00
Sequence:	1I24906	Injection Date:	09/01/11
Lab Sample ID:	1I24906-ICV3	Injection Time:	16:02

		CONC. (ug/L)		RESPONSE FACTOR			% DIFF / DRIFT	
COMPOUND	TYPE	STD	ICV	ICAL	ICV	MIN (#)	ICV	LIMIT (#)
Aroclor-1016 (1)	L	1000	967.2	1848.906	1372.674		-3.3	20
Aroclor-1016 (2)	L	1000	1061	709.958	714.374		6.1	20
Aroclor-1016 (3)	L	1000	1042	699.4579	688.826		4.2	20
Aroclor-1016 (4)	L	1000	1053	1009.497	1011.514		5.3	20
Aroclor-1016 (5)	L	1000	1033	675.0696	676.683		3.3	20
Aroclor-1016 (1) [2C]	A	1000	959.2	1046.325	1003.664		-4.1	20
Aroclor-1016 (2) [2C]	A	1000	985.0	573.6751	565.05		-1.5	20
Aroclor-1016 (3) [2C]	A	1000	967.4	826.3927	799.501		-3.3	20
Aroclor-1016 (4) [2C]	A	1000	971.4	564.1648	548.019		-2.9	20
Aroclor-1016 (5) [2C]	A	1000	977.0	602.4543	588.605		-2.3	20
Aroclor-1260 (1)	A	1000	931.9	3590.617	3346.136		-6.8	20
Aroclor-1260 (2)	A	1000	994.4	1927.506	1916.619		-0.6	20
Aroclor-1260 (3)	A	1000	1067	2089.305	2228.837		6.7	20
Aroclor-1260 (4)	A	1000	839.4	1485.512	1246.918		-16.1	20
Aroclor-1260 (5)	A	1000	806.1	993.153	800.55		-19.4	20
Aroclor-1260 (1) [2C]	A	1000	920.5	2610.749	2403.189		-8.0	20
Aroclor-1260 (2) [2C]	A	1000	975.1	1521.312	1483.404		-2.5	20
Aroclor-1260 (3) [2C]	A	1000	978.0	1413.996	1382.885		-2.2	20
Aroclor-1260 (4) [2C]	A	1000	1074	1565.017	1681.222		7.4	20
Aroclor-1260 (5) [2C]	A	1000	883.7	1149.291	1015.647		-11.6	20

Column to be used to flag Response Factor and %Diff/Drift values with an asterisk

* Values outside of QC limits

INITIAL CALIBRATION CHECK

SW8082A

Laboratory:	Empirical Laboratories, LLC	SDG:	1109191
Client:	Tetra Tech NUS, Inc. (T010)	Project:	Navy Fuel Depot CTO JM46
Instrument ID:	GL-ECD3	Calibration:	1286006
Lab File ID:	028F2801.D	Calibration Date:	10/10/11 00:00
Sequence:	1J28607	Injection Date:	10/10/11
Lab Sample ID:	1J28607-ICV1	Injection Time:	19:45

		CONC. (ug/L)		RESPONSE FACTOR			% DIFF / DRIFT	
COMPOUND	TYPE	STD	ICV	ICAL	ICV	MIN (#)	ICV	LIMIT (#)
Aroclor-1016 (1)	A	1000	964.3	1719.155	1657.742		-3.6	20
Aroclor-1016 (2)	A	1000	991.6	841.0747	834.003		-0.8	20
Aroclor-1016 (3)	A	1000	997.1	813.2131	810.844		-0.3	20
Aroclor-1016 (4)	A	1000	1003	1232.628	1236.746		0.3	20
Aroclor-1016 (5)	A	1000	980.0	826.3383	809.824		-2.0	20
Aroclor-1016 (1) [2C]	A	1000	893.5	1218.203	1088.503		-10.6	20
Aroclor-1016 (2) [2C]	A	1000	939.7	686.3446	644.952		-6.0	20
Aroclor-1016 (3) [2C]	A	1000	963.4	951.4247	916.643		-3.7	20
Aroclor-1016 (4) [2C]	A	1000	933.1	646.6414	603.381		-6.7	20
Aroclor-1016 (5) [2C]	A	1000	949.4	667.651	633.87		-5.1	20
Aroclor-1260 (1)	A	1000	882.0	4106.538	3622.208		-11.8	20
Aroclor-1260 (2)	A	1000	978.6	2219.508	2171.945		-2.1	20
Aroclor-1260 (3)	A	1000	1044	2441.55	2550.106		4.4	20
Aroclor-1260 (4)	A	1000	832.1	1755.815	1461.029		-16.8	20
Aroclor-1260 (5)	A	1000	779.8	1080.417	842.541		-22.0	20 *
Aroclor-1260 (1) [2C]	A	1000	863.2	2496.206	2154.641		-13.7	20
Aroclor-1260 (2) [2C]	A	1000	935.6	1537.099	1438.165		-6.4	20
Aroclor-1260 (3) [2C]	A	1000	918.7	1427.741	1311.635		-8.1	20
Aroclor-1260 (4) [2C]	A	1000	1008	1516.838	1529.655		0.8	20
Aroclor-1260 (5) [2C]	A	1000	830.1	1108.071	919.792		-17.0	20

Column to be used to flag Response Factor and %Diff/Drift values with an asterisk

* Values outside of QC limits

INITIAL CALIBRATION CHECK

SW8082A

Laboratory:	Empirical Laboratories, LLC	SDG:	1109191
Client:	Tetra Tech NUS, Inc. (T010)	Project:	Navy Fuel Depot CTO JM46
Instrument ID:	GL-ECD3	Calibration:	1286006
Lab File ID:	035F3501.D	Calibration Date:	10/10/11 00:00
Sequence:	1J28607	Injection Date:	10/10/11
Lab Sample ID:	1J28607-ICV2	Injection Time:	21:56

		CONC. (ug/L)		RESPONSE FACTOR			% DIFF / DRIFT	
COMPOUND	TYPE	STD	ICV	ICAL	ICV	MIN (#)	ICV	LIMIT (#)
Aroclor-1254 (1)	A	1000	1098	2187.24	2400.516		9.8	20
Aroclor-1254 (2)	A	1000	1060	731.254	775.185		6.0	20
Aroclor-1254 (3)	A	1000	1080	2098.851	2267.501		8.0	20
Aroclor-1254 (4)	A	1000	1092	1704.399	1860.656		9.2	20
Aroclor-1254 (5)	A	1000	1101	1814.992	1997.703		10.1	20
Aroclor-1254 (1) [2C]	A	1000	1028	1770.465	1820.825		2.8	20
Aroclor-1254 (2) [2C]	A	1000	1012	1415.644	1432.582		1.2	20
Aroclor-1254 (3) [2C]	A	1000	1023	1214.736	1242.781		2.3	20
Aroclor-1254 (4) [2C]	A	1000	1029	911.7627	938.068		2.9	20
Aroclor-1254 (5) [2C]	A	1000	1053	1506.382	1585.708		5.3	20

Column to be used to flag Response Factor and %Diff/Drift values with an asterisk

* Values outside of QC limits

CONTINUING CALIBRATION CHECK

SW8082A

Laboratory:	Empirical Laboratories, LLC	SDG:	1109191
Client:	Tetra Tech NUS, Inc. (T010)	Project:	Navy Fuel Depot CTO JM46
Instrument ID:	GL-ECD3	Calibration:	1275001
Lab File ID:	011F1101.D	Calibration Date:	09/28/11 00:00
Sequence:	1J27601	Injection Date:	09/28/11
Lab Sample ID:	1J27601-CCV1	Injection Time:	12:02

		CONC. (ug/L)		RESPONSE FACTOR			% DIFF / DRIFT	
COMPOUND	TYPE	STD	CCV	ICAL	CCV	MIN (#)	CCV	LIMIT (#)
Tetrachloro-m-xylene	A	100.0	102.6	35686.53	36618.67		2.6	20
Tetrachloro-m-xylene [2C]	A	100.0	96.48	35149.92	33913.88		-3.5	20
Decachlorobiphenyl	A	100.0	92.36	36329.22	33552.57		-7.6	20
Decachlorobiphenyl [2C]	A	100.0	89.94	29268.66	26325.13		-10.1	20

Column to be used to flag Response Factor and %Diff/Drift values with an asterisk

* Values outside of QC limits

CONTINUING CALIBRATION CHECK

SW8082A

Laboratory:	Empirical Laboratories, LLC	SDG:	1109191
Client:	Tetra Tech NUS, Inc. (T010)	Project:	Navy Fuel Depot CTO JM46
Instrument ID:	GL-ECD3	Calibration:	1275001
Lab File ID:	014F1401.D	Calibration Date:	09/28/11 00:00
Sequence:	1J27601	Injection Date:	09/28/11
Lab Sample ID:	1J27601-CCV4	Injection Time:	12:58

		CONC. (ug/L)		RESPONSE FACTOR			% DIFF / DRIFT	
COMPOUND	TYPE	STD	CCV	ICAL	CCV	MIN (#)	CCV	LIMIT (#)
Aroclor-1016 (1)	L	1000	1356	1848.906	1894.77		35.6	20 *
Aroclor-1016 (2)	L	1000	1276	709.958	857.076		27.6	20 *
Aroclor-1016 (3)	L	1000	1290	699.4579	850.506		29.0	20 *
Aroclor-1016 (4)	L	1000	1294	1009.497	1241.253		29.4	20 *
Aroclor-1016 (5)	L	1000	1308	675.0696	856.541		30.8	20 *
Aroclor-1016 (1) [2C]	A	1000	1597	1046.325	1670.866		59.7	20 *
Aroclor-1016 (2) [2C]	A	1000	1507	573.6751	864.38		50.7	20 *
Aroclor-1016 (3) [2C]	A	1000	1552	826.3927	1282.269		55.2	20 *
Aroclor-1016 (4) [2C]	A	1000	1522	564.1648	858.702		52.2	20 *
Aroclor-1016 (5) [2C]	A	1000	1432	602.4543	863.018		43.3	20 *
Aroclor-1260 (1)	A	1000	1223	3590.617	4392.998		22.3	20 *
Aroclor-1260 (2)	A	1000	1207	1927.506	2326.533		20.7	20 *
Aroclor-1260 (3)	A	1000	1235	2089.305	2580.479		23.5	20 *
Aroclor-1260 (4)	A	1000	1216	1485.512	1805.928		21.6	20 *
Aroclor-1260 (5)	A	1000	1155	993.153	1147.207		15.5	20
Aroclor-1260 (1) [2C]	A	1000	1469	2610.749	3834.548		46.9	20 *
Aroclor-1260 (2) [2C]	A	1000	1429	1521.312	2173.534		42.9	20 *
Aroclor-1260 (3) [2C]	A	1000	1421	1413.996	2009.663		42.1	20 *
Aroclor-1260 (4) [2C]	A	1000	1470	1565.017	2301.292		47.0	20 *
Aroclor-1260 (5) [2C]	A	1000	1450	1149.291	1666.257		45.0	20 *

Column to be used to flag Response Factor and %Diff/Drift values with an asterisk

* Values outside of QC limits

CONTINUING CALIBRATION CHECK

SW8082A

Laboratory:	Empirical Laboratories, LLC	SDG:	1109191
Client:	Tetra Tech NUS, Inc. (T010)	Project:	Navy Fuel Depot CTO JM46
Instrument ID:	GL-ECD3	Calibration:	1275001
Lab File ID:	037F3701.D	Calibration Date:	09/28/11 00:00
Sequence:	1J27601	Injection Date:	09/28/11
Lab Sample ID:	1J27601-CCV5	Injection Time:	20:08

		CONC. (ug/L)		RESPONSE FACTOR			% DIFF / DRIFT	
COMPOUND	TYPE	STD	CCV	ICAL	CCV	MIN (#)	CCV	LIMIT (#)
Tetrachloro-m-xylene	A	100.0	108.6	35686.53	38758.1		8.6	20
Tetrachloro-m-xylene [2C]	A	100.0	96.19	35149.92	33810.35		-3.8	20
Decachlorobiphenyl	A	100.0	102.6	36329.22	37263.92		2.6	20
Decachlorobiphenyl [2C]	A	100.0	96.43	29268.66	28224.23		-3.6	20

Column to be used to flag Response Factor and %Diff/Drift values with an asterisk

* Values outside of QC limits

CONTINUING CALIBRATION CHECK

SW8082A

Laboratory:	Empirical Laboratories, LLC	SDG:	1109191
Client:	Tetra Tech NUS, Inc. (T010)	Project:	Navy Fuel Depot CTO JM46
Instrument ID:	GL-ECD3	Calibration:	1275001
Lab File ID:	040F4001.D	Calibration Date:	09/28/11 00:00
Sequence:	1J27601	Injection Date:	09/28/11
Lab Sample ID:	1J27601-CCV8	Injection Time:	21:04

		CONC. (ug/L)		RESPONSE FACTOR			% DIFF / DRIFT	
COMPOUND	TYPE	STD	CCV	ICAL	CCV	MIN (#)	CCV	LIMIT (#)
Aroclor-1016 (1)	L	1000	1438	1848.906	2005.852		43.8	20 *
Aroclor-1016 (2)	L	1000	1333	709.958	894.804		33.3	20 *
Aroclor-1016 (3)	L	1000	1346	699.4579	886.942		34.6	20 *
Aroclor-1016 (4)	L	1000	1362	1009.497	1306.262		36.2	20 *
Aroclor-1016 (5)	L	1000	1366	675.0696	894.01		36.6	20 *
Aroclor-1016 (1) [2C]	A	1000	1642	1046.325	1718.187		64.2	20 *
Aroclor-1016 (2) [2C]	A	1000	1500	573.6751	860.283		50.0	20 *
Aroclor-1016 (3) [2C]	A	1000	1503	826.3927	1241.844		50.3	20 *
Aroclor-1016 (4) [2C]	A	1000	1524	564.1648	860.114		52.5	20 *
Aroclor-1016 (5) [2C]	A	1000	1424	602.4543	858.221		42.5	20 *
Aroclor-1260 (1)	A	1000	1301	3590.617	4671.106		30.1	20 *
Aroclor-1260 (2)	A	1000	1274	1927.506	2454.907		27.4	20 *
Aroclor-1260 (3)	A	1000	1311	2089.305	2738.619		31.1	20 *
Aroclor-1260 (4)	A	1000	1293	1485.512	1920.977		29.3	20 *
Aroclor-1260 (5)	A	1000	1218	993.153	1209.407		21.8	20 *
Aroclor-1260 (1) [2C]	A	1000	1504	2610.749	3925.933		50.4	20 *
Aroclor-1260 (2) [2C]	A	1000	1429	1521.312	2173.946		42.9	20 *
Aroclor-1260 (3) [2C]	A	1000	1432	1413.996	2025.317		43.2	20 *
Aroclor-1260 (4) [2C]	A	1000	1489	1565.017	2330.602		48.9	20 *
Aroclor-1260 (5) [2C]	A	1000	1483	1149.291	1704.9		48.3	20 *

Column to be used to flag Response Factor and %Diff/Drift values with an asterisk

* Values outside of QC limits

CONTINUING CALIBRATION CHECK

SW8082A

Laboratory:	Empirical Laboratories, LLC	SDG:	1109191
Client:	Tetra Tech NUS, Inc. (T010)	Project:	Navy Fuel Depot CTO JM46
Instrument ID:	GL-ECD3	Calibration:	1277003
Lab File ID:	003F0301.D	Calibration Date:	09/30/11 00:00
Sequence:	1J27708	Injection Date:	09/30/11
Lab Sample ID:	1J27708-CCV1	Injection Time:	14:18

		CONC. (ug/L)		RESPONSE FACTOR			% DIFF / DRIFT	
COMPOUND	TYPE	STD	CCV	ICAL	CCV	MIN (#)	CCV	LIMIT (#)
Tetrachloro-m-xylene	A	100.0	100.6	37674.28	37910.45		0.6	20
Tetrachloro-m-xylene [2C]	A	100.0	97.11	36869.02	35804		-2.9	20
Decachlorobiphenyl	A	100.0	91.27	37420.63	34153.28		-8.7	20
Decachlorobiphenyl [2C]	L	100.0	107.3	30193.55	28246.7		7.3	20

Column to be used to flag Response Factor and %Diff/Drift values with an asterisk

* Values outside of QC limits

CONTINUING CALIBRATION CHECK

SW8082A

Laboratory:	Empirical Laboratories, LLC	SDG:	1109191
Client:	Tetra Tech NUS, Inc. (T010)	Project:	Navy Fuel Depot CTO JM46
Instrument ID:	GL-ECD3	Calibration:	1277003
Lab File ID:	022F2201.D	Calibration Date:	09/30/11 00:00
Sequence:	1J27708	Injection Date:	09/30/11
Lab Sample ID:	1J27708-CCV7	Injection Time:	20:15

		CONC. (ug/L)		RESPONSE FACTOR			% DIFF / DRIFT	
COMPOUND	TYPE	STD	CCV	ICAL	CCV	MIN (#)	CCV	LIMIT (#)
Tetrachloro-m-xylene	A	100.0	104.3	37674.28	39279.88		4.3	20
Tetrachloro-m-xylene [2C]	A	100.0	80.05	36869.02	29512.8		-20.0	20
Decachlorobiphenyl	A	100.0	83.84	37420.63	31374.85		-16.2	20
Decachlorobiphenyl [2C]	L	100.0	77.49	30193.55	20497.92		-22.5	20 *

Column to be used to flag Response Factor and %Diff/Drift values with an asterisk

* Values outside of QC limits

CONTINUING CALIBRATION CHECK

SW8082A

Laboratory:	Empirical Laboratories, LLC	SDG:	1109191
Client:	Tetra Tech NUS, Inc. (T010)	Project:	Navy Fuel Depot CTO JM46
Instrument ID:	GL-ECD3	Calibration:	1277003
Lab File ID:	025F2501.D	Calibration Date:	09/30/11 00:00
Sequence:	1J27708	Injection Date:	09/30/11
Lab Sample ID:	1J27708-CCVA	Injection Time:	21:11

		CONC. (ug/L)		RESPONSE FACTOR			% DIFF / DRIFT	
COMPOUND	TYPE	STD	CCV	ICAL	CCV	MIN (#)	CCV	LIMIT (#)
Aroclor-1016 (1)	L	1000	1477	1848.906	2058.173		47.7	20 *
Aroclor-1016 (2)	L	1000	1373	709.958	921.6		37.3	20 *
Aroclor-1016 (3)	L	1000	1393	699.4579	917.36		39.3	20 *
Aroclor-1016 (4)	L	1000	1465	1009.497	1404.552		46.5	20 *
Aroclor-1016 (5)	L	1000	1421	675.0696	930.128		42.1	20 *
Aroclor-1016 (1) [2C]	A	1000	1422	1046.325	1488.244		42.2	20 *
Aroclor-1016 (2) [2C]	A	1000	1332	573.6751	763.959		33.2	20 *
Aroclor-1016 (3) [2C]	A	1000	1382	826.3927	1142.224		38.2	20 *
Aroclor-1016 (4) [2C]	A	1000	1379	564.1648	778.237		37.9	20 *
Aroclor-1016 (5) [2C]	A	1000	1300	602.4543	783.079		30.0	20 *
Aroclor-1260 (1)	A	1000	1256	3590.617	4510.64		25.6	20 *
Aroclor-1260 (2)	A	1000	1274	1927.506	2456.784		27.5	20 *
Aroclor-1260 (3)	A	1000	1302	2089.305	2721.219		30.2	20 *
Aroclor-1260 (4)	A	1000	1276	1485.512	1895.336		27.6	20 *
Aroclor-1260 (5)	A	1000	1092	993.153	1084.372		9.2	20
Aroclor-1260 (1) [2C]	A	1000	1257	2610.749	3282.239		25.7	20 *
Aroclor-1260 (2) [2C]	A	1000	1261	1521.312	1918.774		26.1	20 *
Aroclor-1260 (3) [2C]	A	1000	1251	1413.996	1769.383		25.1	20 *
Aroclor-1260 (4) [2C]	A	1000	1275	1565.017	1995.493		27.5	20 *
Aroclor-1260 (5) [2C]	A	1000	1256	1149.291	1443.812		25.6	20 *

Column to be used to flag Response Factor and %Diff/Drift values with an asterisk

* Values outside of QC limits

CONTINUING CALIBRATION CHECK

SW8082A

Laboratory:	Empirical Laboratories, LLC	SDG:	1109191
Client:	Tetra Tech NUS, Inc. (T010)	Project:	Navy Fuel Depot CTO JM46
Instrument ID:	GL-ECD3	Calibration:	1277003
Lab File ID:	039F4501.D	Calibration Date:	09/30/11 00:00
Sequence:	1J27708	Injection Date:	10/01/11
Lab Sample ID:	1J27708-CCVD	Injection Time:	03:27

		CONC. (ug/L)		RESPONSE FACTOR			% DIFF / DRIFT	
COMPOUND	TYPE	STD	CCV	ICAL	CCV	MIN (#)	CCV	LIMIT (#)
Tetrachloro-m-xylene	A	100.0	106.8	37674.28	40247.22		6.8	20
Tetrachloro-m-xylene [2C]	A	100.0	81.73	36869.02	30133.37		-18.3	20
Decachlorobiphenyl	A	100.0	94.56	37420.63	35384.83		-5.4	20
Decachlorobiphenyl [2C]	L	100.0	89.39	30193.55	23594.49		-10.6	20

Column to be used to flag Response Factor and %Diff/Drift values with an asterisk

* Values outside of QC limits

CONTINUING CALIBRATION CHECK

SW8082A

Laboratory:	Empirical Laboratories, LLC	SDG:	1109191
Client:	Tetra Tech NUS, Inc. (T010)	Project:	Navy Fuel Depot CTO JM46
Instrument ID:	GL-ECD3	Calibration:	1277003
Lab File ID:	042F4801.D	Calibration Date:	09/30/11 00:00
Sequence:	1J27708	Injection Date:	10/01/11
Lab Sample ID:	1J27708-CCVG	Injection Time:	04:23

		CONC. (ug/L)		RESPONSE FACTOR			% DIFF / DRIFT	
COMPOUND	TYPE	STD	CCV	ICAL	CCV	MIN (#)	CCV	LIMIT (#)
Aroclor-1016 (1)	L	1000	1503	1848.906	2092.271		50.3	20 *
Aroclor-1016 (2)	L	1000	1374	709.958	921.938		37.4	20 *
Aroclor-1016 (3)	L	1000	1413	699.4579	930.597		41.3	20 *
Aroclor-1016 (4)	L	1000	1480	1009.497	1418.728		48.0	20 *
Aroclor-1016 (5)	L	1000	1445	675.0696	945.947		44.5	20 *
Aroclor-1016 (1) [2C]	A	1000	1479	1046.325	1547.547		47.9	20 *
Aroclor-1016 (2) [2C]	A	1000	1346	573.6751	772.151		34.6	20 *
Aroclor-1016 (3) [2C]	A	1000	1331	826.3927	1100.134		33.1	20 *
Aroclor-1016 (4) [2C]	A	1000	1395	564.1648	786.856		39.5	20 *
Aroclor-1016 (5) [2C]	A	1000	1305	602.4543	786.2		30.5	20 *
Aroclor-1260 (1)	A	1000	1318	3590.617	4732.675		31.8	20 *
Aroclor-1260 (2)	A	1000	1329	1927.506	2562.115		32.9	20 *
Aroclor-1260 (3)	A	1000	1354	2089.305	2830.014		35.5	20 *
Aroclor-1260 (4)	A	1000	1328	1485.512	1973.131		32.8	20 *
Aroclor-1260 (5)	A	1000	1196	993.153	1187.718		19.6	20
Aroclor-1260 (1) [2C]	A	1000	1308	2610.749	3414.766		30.8	20 *
Aroclor-1260 (2) [2C]	A	1000	1298	1521.312	1974.339		29.8	20 *
Aroclor-1260 (3) [2C]	A	1000	1290	1413.996	1824.138		29.0	20 *
Aroclor-1260 (4) [2C]	A	1000	1337	1565.017	2092.315		33.7	20 *
Aroclor-1260 (5) [2C]	A	1000	1299	1149.291	1492.995		29.9	20 *

Column to be used to flag Response Factor and %Diff/Drift values with an asterisk

* Values outside of QC limits

CONTINUING CALIBRATION CHECK

SW8082A

Laboratory:	Empirical Laboratories, LLC	SDG:	1109191
Client:	Tetra Tech NUS, Inc. (T010)	Project:	Navy Fuel Depot CTO JM46
Instrument ID:	GL-ECD3	Calibration:	1286006
Lab File ID:	002F0201.D	Calibration Date:	10/10/11 00:00
Sequence:	1J28715	Injection Date:	10/12/11
Lab Sample ID:	1J28715-CCV1	Injection Time:	13:35

		CONC. (ug/L)		RESPONSE FACTOR			% DIFF / DRIFT	
COMPOUND	TYPE	STD	CCV	ICAL	CCV	MIN (#)	CCV	LIMIT (#)
Aroclor-1016 (1)	A	1000	1015	1719.155	1744.796		1.5	20
Aroclor-1016 (2)	A	1000	948.0	841.0747	797.375		-5.2	20
Aroclor-1016 (3)	A	1000	974.5	813.2131	792.504		-2.5	20
Aroclor-1016 (4)	A	1000	972.6	1232.628	1198.831		-2.7	20
Aroclor-1016 (5)	A	1000	947.1	826.3383	782.652		-5.3	20
Aroclor-1016 (1) [2C]	A	1000	1460	1218.203	1779.241		46.1	20 *
Aroclor-1016 (2) [2C]	A	1000	1378	686.3446	945.606		37.8	20 *
Aroclor-1016 (3) [2C]	A	1000	1373	951.4247	1306.512		37.3	20 *
Aroclor-1016 (4) [2C]	A	1000	1147	646.6414	741.534		14.7	20
Aroclor-1016 (5) [2C]	A	1000	1441	667.651	962.303		44.1	20 *
Aroclor-1260 (1)	A	1000	987.9	4106.538	4056.893		-1.2	20
Aroclor-1260 (2)	A	1000	998.0	2219.508	2214.978		-0.2	20
Aroclor-1260 (3)	A	1000	988.5	2441.55	2413.563		-1.1	20
Aroclor-1260 (4)	A	1000	972.3	1755.815	1707.235		-2.8	20
Aroclor-1260 (5)	A	1000	982.7	1080.417	1061.777		-1.7	20
Aroclor-1260 (1) [2C]	A	1000	1400	2496.206	3493.536		40.0	20 *
Aroclor-1260 (2) [2C]	A	1000	1317	1537.099	2024.292		31.7	20 *
Aroclor-1260 (3) [2C]	A	1000	1128	1427.741	1610.77		12.8	20
Aroclor-1260 (4) [2C]	A	1000	1398	1516.838	2120.596		39.8	20 *
Aroclor-1260 (5) [2C]	A	1000	1360	1108.071	1507.012		36.0	20 *
Tetrachloro-m-xylene	A	100.0	91.85	37674.28	34604.73		-8.1	20
Tetrachloro-m-xylene [2C]	A	100.0	98.77	36869.02	36414.12		-1.2	20
Decachlorobiphenyl	A	100.0	88.75	37420.63	33212.2		-11.2	20
Decachlorobiphenyl [2C]	L	100.0	93.71	30193.55	24718.8		-6.3	20

Column to be used to flag Response Factor and %Diff/Drift values with an asterisk

* Values outside of QC limits

CONTINUING CALIBRATION CHECK

SW8082A

Laboratory:	Empirical Laboratories, LLC	SDG:	1109191
Client:	Tetra Tech NUS, Inc. (T010)	Project:	Navy Fuel Depot CTO JM46
Instrument ID:	GL-ECD3	Calibration:	1286006
Lab File ID:	037F3701.D	Calibration Date:	10/10/11 00:00
Sequence:	1J28715	Injection Date:	10/13/11
Lab Sample ID:	1J28715-CCV5	Injection Time:	00:31

		CONC. (ug/L)		RESPONSE FACTOR			% DIFF / DRIFT	
COMPOUND	TYPE	STD	CCV	ICAL	CCV	MIN (#)	CCV	LIMIT (#)
Aroclor-1016 (1)	A	1000	1128	1719.155	1939.297		12.8	20
Aroclor-1016 (2)	A	1000	1026	841.0747	863.126		2.6	20
Aroclor-1016 (3)	A	1000	1042	813.2131	847.828		4.3	20
Aroclor-1016 (4)	A	1000	1025	1232.628	1263.252		2.5	20
Aroclor-1016 (5)	A	1000	1022	826.3383	844.522		2.2	20
Aroclor-1016 (1) [2C]	A	1000	1308	1218.203	1593.811		30.8	20 *
Aroclor-1016 (2) [2C]	A	1000	1280	686.3446	878.491		28.0	20 *
Aroclor-1016 (3) [2C]	A	1000	1313	951.4247	1248.957		31.3	20 *
Aroclor-1016 (4) [2C]	A	1000	1079	646.6414	697.979		7.9	20
Aroclor-1016 (5) [2C]	A	1000	1300	667.651	867.768		30.0	20 *
Aroclor-1260 (1)	A	1000	1076	4106.538	4420.083		7.6	20
Aroclor-1260 (2)	A	1000	1063	2219.508	2359.19		6.3	20
Aroclor-1260 (3)	A	1000	1063	2441.55	2595.836		6.3	20
Aroclor-1260 (4)	A	1000	1048	1755.815	1839.74		4.8	20
Aroclor-1260 (5)	A	1000	1038	1080.417	1121.642		3.8	20
Aroclor-1260 (1) [2C]	A	1000	1317	2496.206	3287.882		31.7	20 *
Aroclor-1260 (2) [2C]	A	1000	1264	1537.099	1943.465		26.4	20 *
Aroclor-1260 (3) [2C]	A	1000	1118	1427.741	1596.765		11.8	20
Aroclor-1260 (4) [2C]	A	1000	1273	1516.838	1930.382		27.3	20 *
Aroclor-1260 (5) [2C]	A	1000	1248	1108.071	1382.353		24.8	20 *
Tetrachloro-m-xylene	A	100.0	93.12	37674.28	35083.32		-6.9	20
Tetrachloro-m-xylene [2C]	A	100.0	91.24	36869.02	33640.5		-8.8	20
Decachlorobiphenyl	A	100.0	95.26	37420.63	35647.5		-4.7	20
Decachlorobiphenyl [2C]	L	100.0	86.86	30193.55	22937.27		-13.1	20

Column to be used to flag Response Factor and %Diff/Drift values with an asterisk

* Values outside of QC limits

CONTINUING CALIBRATION CHECK

SW8082A

Laboratory:	Empirical Laboratories, LLC	SDG:	1109191
Client:	Tetra Tech NUS, Inc. (T010)	Project:	Navy Fuel Depot CTO JM46
Instrument ID:	GL-ECD3	Calibration:	1286006
Lab File ID:	038F3801.D	Calibration Date:	10/10/11 00:00
Sequence:	1J28715	Injection Date:	10/13/11
Lab Sample ID:	1J28715-CCV6	Injection Time:	00:50

		CONC. (ug/L)		RESPONSE FACTOR			% DIFF / DRIFT	
COMPOUND	TYPE	STD	CCV	ICAL	CCV	MIN (#)	CCV	LIMIT (#)
Aroclor-1254 (1)	A	1000	989.9	2187.24	2165.073		-1.0	20
Aroclor-1254 (2)	A	1000	949.8	731.254	694.542		-5.0	20
Aroclor-1254 (3)	A	1000	921.9	2098.851	1935.026		-7.8	20
Aroclor-1254 (4)	A	1000	981.8	1704.399	1673.409		-1.8	20
Aroclor-1254 (5)	A	1000	988.2	1814.992	1793.486		-1.2	20
Aroclor-1254 (1) [2C]	A	1000	1299	1770.465	2299.375		29.9	20 *
Aroclor-1254 (2) [2C]	A	1000	1304	1415.644	1846.674		30.4	20 *
Aroclor-1254 (3) [2C]	A	1000	1320	1214.736	1603.824		32.0	20 *
Aroclor-1254 (4) [2C]	A	1000	1282	911.7627	1168.929		28.2	20 *
Aroclor-1254 (5) [2C]	A	1000	1272	1506.382	1916.556		27.2	20 *

Column to be used to flag Response Factor and %Diff/Drift values with an asterisk

* Values outside of QC limits

CONTINUING CALIBRATION CHECK

SW8082A

Laboratory:	Empirical Laboratories, LLC	SDG:	1109191
Client:	Tetra Tech NUS, Inc. (T010)	Project:	Navy Fuel Depot CTO JM46
Instrument ID:	GL-ECD3	Calibration:	1286006
Lab File ID:	051F5101.D	Calibration Date:	10/10/11 00:00
Sequence:	1J28715	Injection Date:	10/13/11
Lab Sample ID:	1J28715-CCV7	Injection Time:	04:53

		CONC. (ug/L)		RESPONSE FACTOR			% DIFF / DRIFT	
COMPOUND	TYPE	STD	CCV	ICAL	CCV	MIN (#)	CCV	LIMIT (#)
Aroclor-1016 (1)	A	1000	1060	1719.155	1822.142		6.0	20
Aroclor-1016 (2)	A	1000	980.0	841.0747	824.253		-2.0	20
Aroclor-1016 (3)	A	1000	992.5	813.2131	807.112		-0.8	20
Aroclor-1016 (4)	A	1000	979.0	1232.628	1206.74		-2.1	20
Aroclor-1016 (5)	A	1000	969.2	826.3383	800.87		-3.1	20
Aroclor-1016 (1) [2C]	A	1000	1338	1218.203	1629.906		33.8	20 *
Aroclor-1016 (2) [2C]	A	1000	1280	686.3446	878.269		28.0	20 *
Aroclor-1016 (3) [2C]	A	1000	1263	951.4247	1201.868		26.3	20 *
Aroclor-1016 (4) [2C]	A	1000	1073	646.6414	693.713		7.3	20
Aroclor-1016 (5) [2C]	A	1000	1293	667.651	863.235		29.3	20 *
Aroclor-1260 (1)	A	1000	979.8	4106.538	4023.495		-2.0	20
Aroclor-1260 (2)	A	1000	987.7	2219.508	2192.312		-1.2	20
Aroclor-1260 (3)	A	1000	982.7	2441.55	2399.419		-1.7	20
Aroclor-1260 (4)	A	1000	962.5	1755.815	1690.018		-3.7	20
Aroclor-1260 (5)	A	1000	995.1	1080.417	1075.086		-0.5	20
Aroclor-1260 (1) [2C]	A	1000	1288	2496.206	3216.514		28.9	20 *
Aroclor-1260 (2) [2C]	A	1000	1222	1537.099	1879.039		22.2	20 *
Aroclor-1260 (3) [2C]	A	1000	1087	1427.741	1551.667		8.7	20
Aroclor-1260 (4) [2C]	A	1000	1267	1516.838	1921.809		26.7	20 *
Aroclor-1260 (5) [2C]	A	1000	1232	1108.071	1365.246		23.2	20 *
Tetrachloro-m-xylene	A	100.0	95.45	37674.28	35958.85		-4.6	20
Tetrachloro-m-xylene [2C]	A	100.0	91.29	36869.02	33657.17		-8.7	20
Decachlorobiphenyl	A	100.0	87.16	37420.63	32616.25		-12.8	20
Decachlorobiphenyl [2C]	L	100.0	86.13	30193.55	22746.2		-13.9	20

Column to be used to flag Response Factor and %Diff/Drift values with an asterisk

* Values outside of QC limits

CONTINUING CALIBRATION CHECK

SW8082A

Laboratory:	Empirical Laboratories, LLC	SDG:	1109191
Client:	Tetra Tech NUS, Inc. (T010)	Project:	Navy Fuel Depot CTO JM46
Instrument ID:	GL-ECD3	Calibration:	1286006
Lab File ID:	052F5201.D	Calibration Date:	10/10/11 00:00
Sequence:	1J28715	Injection Date:	10/13/11
Lab Sample ID:	1J28715-CCV8	Injection Time:	05:12

		CONC. (ug/L)		RESPONSE FACTOR			% DIFF / DRIFT	
COMPOUND	TYPE	STD	CCV	ICAL	CCV	MIN (#)	CCV	LIMIT (#)
Aroclor-1254 (1)	A	1000	936.1	2187.24	2047.5		-6.4	20
Aroclor-1254 (2)	A	1000	932.2	731.254	681.667		-6.8	20
Aroclor-1254 (3)	A	1000	884.4	2098.851	1856.125		-11.6	20
Aroclor-1254 (4)	A	1000	931.0	1704.399	1586.804		-6.9	20
Aroclor-1254 (5)	A	1000	939.6	1814.992	1705.352		-6.0	20
Aroclor-1254 (1) [2C]	A	1000	1326	1770.465	2346.771		32.6	20 *
Aroclor-1254 (2) [2C]	A	1000	1316	1415.644	1863.464		31.6	20 *
Aroclor-1254 (3) [2C]	A	1000	1330	1214.736	1615.735		33.0	20 *
Aroclor-1254 (4) [2C]	A	1000	1312	911.7627	1196.004		31.2	20 *
Aroclor-1254 (5) [2C]	A	1000	1305	1506.382	1965.292		30.5	20 *

Column to be used to flag Response Factor and %Diff/Drift values with an asterisk

* Values outside of QC limits

CONTINUING CALIBRATION CHECK

SW8082A

Laboratory:	Empirical Laboratories, LLC	SDG:	1109191
Client:	Tetra Tech NUS, Inc. (T010)	Project:	Navy Fuel Depot CTO JM46
Instrument ID:	GL-ECD3	Calibration:	1286006
Lab File ID:	065F6501.D	Calibration Date:	10/10/11 00:00
Sequence:	1J28715	Injection Date:	10/13/11
Lab Sample ID:	1J28715-CCV9	Injection Time:	09:15

		CONC. (ug/L)		RESPONSE FACTOR			% DIFF / DRIFT	
COMPOUND	TYPE	STD	CCV	ICAL	CCV	MIN (#)	CCV	LIMIT (#)
Aroclor-1016 (1)	A	1000	941.9	1719.155	1619.226		-5.8	20
Aroclor-1016 (2)	A	1000	864.0	841.0747	726.665		-13.6	20
Aroclor-1016 (3)	A	1000	868.6	813.2131	706.375		-13.1	20
Aroclor-1016 (4)	A	1000	862.9	1232.628	1063.666		-13.7	20
Aroclor-1016 (5)	A	1000	846.6	826.3383	699.618		-15.3	20
Aroclor-1016 (1) [2C]	A	1000	969.6	1218.203	1181.182		-3.0	20
Aroclor-1016 (2) [2C]	A	1000	960.8	686.3446	659.468		-3.9	20
Aroclor-1016 (3) [2C]	A	1000	1009	951.4247	960.128		0.9	20
Aroclor-1016 (4) [2C]	A	1000	869.7	646.6414	562.373		-13.0	20
Aroclor-1016 (5) [2C]	A	1000	927.8	667.651	619.483		-7.2	20
Aroclor-1260 (1)	A	1000	942.9	4106.538	3872.235		-5.7	20
Aroclor-1260 (2)	A	1000	904.9	2219.508	2008.542		-9.5	20
Aroclor-1260 (3)	A	1000	914.5	2441.55	2232.765		-8.6	20
Aroclor-1260 (4)	A	1000	897.0	1755.815	1574.891		-10.3	20
Aroclor-1260 (5)	A	1000	888.6	1080.417	960.042		-11.1	20
Aroclor-1260 (1) [2C]	A	1000	982.2	2496.206	2451.694		-1.8	20
Aroclor-1260 (2) [2C]	A	1000	907.3	1537.099	1394.657		-9.3	20
Aroclor-1260 (3) [2C]	A	1000	877.6	1427.741	1252.946		-12.2	20
Aroclor-1260 (4) [2C]	A	1000	920.4	1516.838	1396.027		-8.0	20
Aroclor-1260 (5) [2C]	A	1000	901.8	1108.071	999.227		-9.8	20
Tetrachloro-m-xylene	A	100.0	85.88	37674.28	32354.92		-14.1	20
Tetrachloro-m-xylene [2C]	A	100.0	74.91	36869.02	27617.78		-25.1	20 *
Decachlorobiphenyl	A	100.0	81.36	37420.63	30445.68		-18.6	20
Decachlorobiphenyl [2C]	L	100.0	64.60	30193.55	17145.49		-35.4	20 *

Column to be used to flag Response Factor and %Diff/Drift values with an asterisk

* Values outside of QC limits

CONTINUING CALIBRATION CHECK

SW8082A

Laboratory:	Empirical Laboratories, LLC	SDG:	1109191
Client:	Tetra Tech NUS, Inc. (T010)	Project:	Navy Fuel Depot CTO JM46
Instrument ID:	GL-ECD3	Calibration:	1286006
Lab File ID:	066F6601.D	Calibration Date:	10/10/11 00:00
Sequence:	1J28715	Injection Date:	10/13/11
Lab Sample ID:	1J28715-CCVA	Injection Time:	09:34

		CONC. (ug/L)		RESPONSE FACTOR			% DIFF / DRIFT	
COMPOUND	TYPE	STD	CCV	ICAL	CCV	MIN (#)	CCV	LIMIT (#)
Aroclor-1254 (1)	A	1000	888.6	2187.24	1943.548		-11.1	20
Aroclor-1254 (2)	A	1000	858.6	731.254	627.871		-14.1	20
Aroclor-1254 (3)	A	1000	850.0	2098.851	1783.933		-15.0	20
Aroclor-1254 (4)	A	1000	883.5	1704.399	1505.881		-11.6	20
Aroclor-1254 (5)	A	1000	883.8	1814.992	1604.157		-11.6	20
Aroclor-1254 (1) [2C]	A	1000	1032	1770.465	1828.168		3.3	20
Aroclor-1254 (2) [2C]	A	1000	1057	1415.644	1496.136		5.7	20
Aroclor-1254 (3) [2C]	A	1000	1053	1214.736	1279.712		5.3	20
Aroclor-1254 (4) [2C]	A	1000	976.6	911.7627	890.419		-2.3	20
Aroclor-1254 (5) [2C]	A	1000	975.8	1506.382	1470.007		-2.4	20

Column to be used to flag Response Factor and %Diff/Drift values with an asterisk

* Values outside of QC limits

SURROGATE STANDARD RECOVERY AND RT SUMMARY

SW8082A

Laboratory:	Empirical Laboratories, LLC	SDG:	1109191
Client:	Tetra Tech NUS, Inc. (T010)	Project:	Navy Fuel Depot CTO JM46
Sequence:	1J27601	Instrument:	GL-ECD3
		Calibration:	1275001

Surrogate Compound	Spike Level	% Recovery	Recovery Limits	RT	CCV RT	RT Diff	RT Diff Limit	Q
Calibration Check (1J27601-CCV1) ug/L				Lab File ID: 011F1101.D		Analyzed: 09/28/11 12:02		
Tetrachloro-m-xylene	100.0	103	80 - 120	5.777	5.777	0.0000	+/-0.030	
Tetrachloro-m-xylene [2C]	100.0	96.5	80 - 120	5.116	5.116	0.0000	+/-0.030	
Decachlorobiphenyl	100.0	92.4	80 - 120	12.225	12.225	0.0000	+/-0.030	
Decachlorobiphenyl [2C]	100.0	89.9	80 - 120	11.138	11.138	0.0000	+/-0.030	
Blank (1I23014-BLK1) ug/L				Lab File ID: 028F2801.D		Analyzed: 09/28/11 17:20		
Tetrachloro-m-xylene	0.5000	71.9	25 - 140	5.776	5.777	-0.0010	+/-0.030	
Tetrachloro-m-xylene [2C]	0.5000	72.8	25 - 140	5.116	5.116	0.0000	+/-0.030	
Decachlorobiphenyl	0.5000	55.1	40 - 135	12.225	12.225	0.0000	+/-0.030	
Decachlorobiphenyl [2C]	0.5000	57.9	40 - 135	11.137	11.138	-0.0010	+/-0.030	
LCS (1I23014-BS1) ug/L				Lab File ID: 029F2901.D		Analyzed: 09/28/11 17:38		
Tetrachloro-m-xylene	0.5000	75.6	25 - 140	5.776	5.777	-0.0010	+/-0.030	
Tetrachloro-m-xylene [2C]	0.5000	75.7	25 - 140	5.115	5.116	-0.0010	+/-0.030	
Decachlorobiphenyl	0.5000	59.6	40 - 135	12.224	12.225	-0.0010	+/-0.030	
Decachlorobiphenyl [2C]	0.5000	63.5	40 - 135	11.137	11.138	-0.0010	+/-0.030	
LCS Dup (1I23014-BSD1) ug/L				Lab File ID: 030F3001.D		Analyzed: 09/28/11 17:57		
Tetrachloro-m-xylene	0.5000	61.1	25 - 140	5.778	5.777	0.0010	+/-0.030	
Tetrachloro-m-xylene [2C]	0.5000	63.1	25 - 140	5.115	5.116	-0.0010	+/-0.030	
Decachlorobiphenyl	0.5000	62.5	40 - 135	12.226	12.225	0.0010	+/-0.030	
Decachlorobiphenyl [2C]	0.5000	67.2	40 - 135	11.137	11.138	-0.0010	+/-0.030	
Calibration Check (1J27601-CCV5) ug/L				Lab File ID: 037F3701.D		Analyzed: 09/28/11 20:08		
Tetrachloro-m-xylene	100.0	109	80 - 120	5.777	5.777	0.0000	+/-0.030	
Tetrachloro-m-xylene [2C]	100.0	96.2	80 - 120	5.115	5.116	-0.0010	+/-0.030	
Decachlorobiphenyl	100.0	103	80 - 120	12.226	12.225	0.0010	+/-0.030	
Decachlorobiphenyl [2C]	100.0	96.4	80 - 120	11.137	11.138	-0.0010	+/-0.030	

SURROGATE STANDARD RECOVERY AND RT SUMMARY

SW8082A

Laboratory:	Empirical Laboratories, LLC	SDG:	1109191
Client:	Tetra Tech NUS, Inc. (T010)	Project:	Navy Fuel Depot CTO JM46
Sequence:	1J27708	Instrument:	GL-ECD3
		Calibration:	1277003

Surrogate Compound	Spike Level	% Recovery	Recovery Limits	RT	CCV RT	RT Diff	RT Diff Limit	Q
Calibration Check (1J27708-CCV1) ug/L				Lab File ID: 003F0301.D		Analyzed: 09/30/11 14:18		
Tetrachloro-m-xylene	100.0	101	80 - 120	5.74	5.74	0.0000	+/-0.030	
Tetrachloro-m-xylene [2C]	100.0	97.1	80 - 120	5.083	5.083	0.0000	+/-0.030	
Decachlorobiphenyl	100.0	91.3	80 - 120	12.173	12.173	0.0000	+/-0.030	
Decachlorobiphenyl [2C]	100.0	107	80 - 120	11.091	11.091	0.0000	+/-0.030	
Calibration Check (1J27708-CCV7) ug/L				Lab File ID: 022F2201.D		Analyzed: 09/30/11 20:15		
Tetrachloro-m-xylene	100.0	104	80 - 120	5.742	5.74	0.0020	+/-0.030	
Tetrachloro-m-xylene [2C]	100.0	80.0	80 - 120	5.085	5.083	0.0020	+/-0.030	
Decachlorobiphenyl	100.0	83.8	80 - 120	12.176	12.173	0.0030	+/-0.030	
Decachlorobiphenyl [2C]	100.0	77.5	80 - 120	11.092	11.091	0.0010	+/-0.030	*
FLC-4-RB01-092211 (1109191-10) ug/L				Lab File ID: 032F3801.D		Analyzed: 10/01/11 01:15		
Tetrachloro-m-xylene	0.4673	59.9	25 - 140	5.74	5.74	0.0000	+/-0.030	
Tetrachloro-m-xylene [2C]	0.4673	49.8	25 - 140	5.084	5.083	0.0010	+/-0.030	
Decachlorobiphenyl	0.4673	29.5	40 - 135	12.175	12.173	0.0020	+/-0.030	*
Decachlorobiphenyl [2C]	0.4673	26.5	40 - 135	11.091	11.091	0.0000	+/-0.030	*
Calibration Check (1J27708-CCVD) ug/L				Lab File ID: 039F4501.D		Analyzed: 10/01/11 03:27		
Tetrachloro-m-xylene	100.0	107	80 - 120	5.741	5.74	0.0010	+/-0.030	
Tetrachloro-m-xylene [2C]	100.0	81.7	80 - 120	5.084	5.083	0.0010	+/-0.030	
Decachlorobiphenyl	100.0	94.6	80 - 120	12.175	12.173	0.0020	+/-0.030	
Decachlorobiphenyl [2C]	100.0	89.4	80 - 120	11.092	11.091	0.0010	+/-0.030	

SURROGATE STANDARD RECOVERY AND RT SUMMARY

SW8082A

Laboratory:	Empirical Laboratories, LLC	SDG:	1109191
Client:	Tetra Tech NUS, Inc. (T010)	Project:	Navy Fuel Depot CTO JM46
Sequence:	1J28715	Instrument:	GL-ECD3
		Calibration:	1286006

Surrogate Compound	Spike Level	% Recovery	Recovery Limits	RT	CCV RT	RT Diff	RT Diff Limit	Q
Calibration Check (1J28715-CCV1) ug/L				Lab File ID: 002F0201.D		Analyzed: 10/12/11 13:35		
Tetrachloro-m-xylene	100.0	91.8	80 - 120	6.129	6.129	0.0000	+/-0.030	
Tetrachloro-m-xylene [2C]	100.0	98.8	80 - 120	5.421	5.421	0.0000	+/-0.030	
Decachlorobiphenyl	100.0	88.8	80 - 120	12.707	12.707	0.0000	+/-0.030	
Decachlorobiphenyl [2C]	100.0	93.7	80 - 120	11.573	11.573	0.0000	+/-0.030	
Calibration Check (1J28715-CCV5) ug/L				Lab File ID: 037F3701.D		Analyzed: 10/13/11 00:31		
Tetrachloro-m-xylene	100.0	93.1	80 - 120	6.129	6.129	0.0000	+/-0.030	
Tetrachloro-m-xylene [2C]	100.0	91.2	80 - 120	5.425	5.421	0.0040	+/-0.030	
Decachlorobiphenyl	100.0	95.3	80 - 120	12.708	12.707	0.0010	+/-0.030	
Decachlorobiphenyl [2C]	100.0	86.9	80 - 120	11.577	11.573	0.0040	+/-0.030	
Blank (1I29016-BLK1) ug/Kg wet				Lab File ID: 048F4801.D		Analyzed: 10/13/11 03:57		
Tetrachloro-m-xylene	16.67	151	70 - 125	6.128	6.129	-0.0010	+/-0.030	*
Tetrachloro-m-xylene [2C]	16.67	163	70 - 125	5.424	5.421	0.0030	+/-0.030	*
Decachlorobiphenyl	16.67	153	60 - 125	12.709	12.707	0.0020	+/-0.030	*
Decachlorobiphenyl [2C]	16.67	161	60 - 125	11.575	11.573	0.0020	+/-0.030	*
LCS (1I29016-BS1) ug/Kg wet				Lab File ID: 049F4901.D		Analyzed: 10/13/11 04:16		
Tetrachloro-m-xylene	16.67	189	70 - 125	6.129	6.129	0.0000	+/-0.030	*
Tetrachloro-m-xylene [2C]	16.67	188	70 - 125	5.425	5.421	0.0040	+/-0.030	*
Decachlorobiphenyl	16.67	188	60 - 125	12.709	12.707	0.0020	+/-0.030	*
Decachlorobiphenyl [2C]	16.67	196	60 - 125	11.578	11.573	0.0050	+/-0.030	*
FLC-4-SS01-0006-092211 (1109191-01) ug/Kg dry				Lab File ID: 050F5001.D		Analyzed: 10/13/11 04:35		
Tetrachloro-m-xylene	16.58	168	70 - 125	6.129	6.129	0.0000	+/-0.030	*
Tetrachloro-m-xylene [2C]	16.58	167	70 - 125	5.425	5.421	0.0040	+/-0.030	*
Decachlorobiphenyl	16.58	153	60 - 125	12.709	12.707	0.0020	+/-0.030	*
Decachlorobiphenyl [2C]	16.58	161	60 - 125	11.577	11.573	0.0040	+/-0.030	*
Calibration Check (1J28715-CCV7) ug/L				Lab File ID: 051F5101.D		Analyzed: 10/13/11 04:53		
Tetrachloro-m-xylene	100.0	95.4	80 - 120	6.13	6.129	0.0010	+/-0.030	
Tetrachloro-m-xylene [2C]	100.0	91.3	80 - 120	5.425	5.421	0.0040	+/-0.030	
Decachlorobiphenyl	100.0	87.2	80 - 120	12.709	12.707	0.0020	+/-0.030	
Decachlorobiphenyl [2C]	100.0	86.1	80 - 120	11.576	11.573	0.0030	+/-0.030	
FLC-4-SS01-0624-092211 (1109191-02) ug/Kg dry				Lab File ID: 053F5301.D		Analyzed: 10/13/11 05:31		
Tetrachloro-m-xylene	16.67	138	70 - 125	6.13	6.129	0.0010	+/-0.030	*
Tetrachloro-m-xylene [2C]	16.67	143	70 - 125	5.426	5.421	0.0050	+/-0.030	*
Decachlorobiphenyl	16.67	127	60 - 125	12.708	12.707	0.0010	+/-0.030	*
Decachlorobiphenyl [2C]	16.67	139	60 - 125	11.576	11.573	0.0030	+/-0.030	*

SURROGATE STANDARD RECOVERY AND RT SUMMARY

SW8082A

Laboratory:	Empirical Laboratories, LLC	SDG:	1109191
Client:	Tetra Tech NUS, Inc. (T010)	Project:	Navy Fuel Depot CTO JM46
Sequence:	1J28715	Instrument:	GL-ECD3
		Calibration:	1286006

Surrogate Compound	Spike Level	% Recovery	Recovery Limits	RT	CCV RT	RT Diff	RT Diff Limit	Q
Matrix Spike (1I29016-MS1) ug/Kg dry				Lab File ID: 054F5401.D		Analyzed: 10/13/11 05:50		
Tetrachloro-m-xylene	16.89	164	70 - 125	6.129	6.129	0.0000	+/-0.030	*
Tetrachloro-m-xylene [2C]	16.89	164	70 - 125	5.425	5.421	0.0040	+/-0.030	*
Decachlorobiphenyl	16.89	155	60 - 125	12.709	12.707	0.0020	+/-0.030	*
Decachlorobiphenyl [2C]	16.89	166	60 - 125	11.577	11.573	0.0040	+/-0.030	*
Matrix Spike Dup (1I29016-MSD1) ug/Kg dry				Lab File ID: 055F5501.D		Analyzed: 10/13/11 06:09		
Tetrachloro-m-xylene	17.00	175	70 - 125	6.128	6.129	-0.0010	+/-0.030	*
Tetrachloro-m-xylene [2C]	17.00	175	70 - 125	5.424	5.421	0.0030	+/-0.030	*
Decachlorobiphenyl	17.00	167	60 - 125	12.71	12.707	0.0030	+/-0.030	*
Decachlorobiphenyl [2C]	17.00	175	60 - 125	11.577	11.573	0.0040	+/-0.030	*
FLC-4-SB01-0204-092211 (1109191-03) ug/Kg dry				Lab File ID: 056F5601.D		Analyzed: 10/13/11 06:27		
Tetrachloro-m-xylene	17.75	140	70 - 125	6.129	6.129	0.0000	+/-0.030	*
Tetrachloro-m-xylene [2C]	17.75	145	70 - 125	5.425	5.421	0.0040	+/-0.030	*
Decachlorobiphenyl	17.75	129	60 - 125	12.709	12.707	0.0020	+/-0.030	*
Decachlorobiphenyl [2C]	17.75	137	60 - 125	11.578	11.573	0.0050	+/-0.030	*
FLC-4-SS02-0006-092211 (1109191-04) ug/Kg dry				Lab File ID: 057F5701.D		Analyzed: 10/13/11 06:46		
Tetrachloro-m-xylene	17.56	149	70 - 125	6.127	6.129	-0.0020	+/-0.030	*
Tetrachloro-m-xylene [2C]	17.56	141	70 - 125	5.425	5.421	0.0040	+/-0.030	*
Decachlorobiphenyl	17.56	124	60 - 125	12.709	12.707	0.0020	+/-0.030	
Decachlorobiphenyl [2C]	17.56	115	60 - 125	11.578	11.573	0.0050	+/-0.030	
FLC-4-SS02-0624-092211 (1109191-05) ug/Kg dry				Lab File ID: 058F5801.D		Analyzed: 10/13/11 07:05		
Tetrachloro-m-xylene	16.66	169	70 - 125	6.13	6.129	0.0010	+/-0.030	*
Tetrachloro-m-xylene [2C]	16.66	166	70 - 125	5.424	5.421	0.0030	+/-0.030	*
Decachlorobiphenyl	16.66	166	60 - 125	12.708	12.707	0.0010	+/-0.030	*
Decachlorobiphenyl [2C]	16.66	166	60 - 125	11.578	11.573	0.0050	+/-0.030	*
FLC-4-SB02-0204-092211 (1109191-06) ug/Kg dry				Lab File ID: 059F5901.D		Analyzed: 10/13/11 07:23		
Tetrachloro-m-xylene	16.81	153	70 - 125	6.128	6.129	-0.0010	+/-0.030	*
Tetrachloro-m-xylene [2C]	16.81	154	70 - 125	5.424	5.421	0.0030	+/-0.030	*
Decachlorobiphenyl	16.81	131	60 - 125	12.708	12.707	0.0010	+/-0.030	*
Decachlorobiphenyl [2C]	16.81	131	60 - 125	11.577	11.573	0.0040	+/-0.030	*
Calibration Check (1J28715-CCV9) ug/L				Lab File ID: 065F6501.D		Analyzed: 10/13/11 09:15		
Tetrachloro-m-xylene	100.0	85.9	80 - 120	6.13	6.129	0.0010	+/-0.030	
Tetrachloro-m-xylene [2C]	100.0	74.9	80 - 120	5.426	5.421	0.0050	+/-0.030	*
Decachlorobiphenyl	100.0	81.4	80 - 120	12.71	12.707	0.0030	+/-0.030	
Decachlorobiphenyl [2C]	100.0	64.6	80 - 120	11.577	11.573	0.0040	+/-0.030	*

HOLDING TIME SUMMARY

SW8082A

Laboratory: Empirical Laboratories, LLC SDG: 1109191

Client: Tetra Tech NUS, Inc. (T010) Project: Navy Fuel Depot CTO JM46

Sample Name	Date Collected	Date Received	Date Prepared	Days to Prep	Max Days to Prep	Date Analyzed	Days to Analysis	Max Days to Analysis	Q
FLC-4-SS01-0006-092211	09/22/11 08:45	09/24/11 09:00	10/03/11 11:30	11.11	14.00	10/13/11 04:35	9.71	40.00	
FLC-4-SS01-0624-092211	09/22/11 09:00	09/24/11 09:00	10/03/11 11:30	11.10	14.00	10/13/11 05:31	9.75	40.00	
FLC-4-SB01-0204-092211	09/22/11 09:25	09/24/11 09:00	10/03/11 11:30	11.09	14.00	10/13/11 06:27	9.79	40.00	
FLC-4-SS02-0006-092211	09/22/11 10:05	09/24/11 09:00	10/03/11 11:30	11.06	14.00	10/13/11 06:46	9.80	40.00	
FLC-4-SS02-0624-092211	09/22/11 10:20	09/24/11 09:00	10/03/11 11:30	11.05	14.00	10/13/11 07:05	9.82	40.00	
FLC-4-SB02-0204-092211	09/22/11 10:30	09/24/11 09:00	10/03/11 11:30	11.04	14.00	10/13/11 07:23	9.83	40.00	
FLC-4-RB01-092211	09/22/11 11:15	09/24/11 09:00	09/26/11 13:10	4.08	7.00	10/01/11 01:15	4.50	40.00	

ANALYSIS DATA SHEET

LCS

Laboratory: Empirical Laboratories, LLC
SDG: 1109191
Client: Tetra Tech NUS, Inc. (T010)
Project: Navy Fuel Depot CTO JM46
Matrix:
Laboratory ID: 1I23014-BS1
File ID: 029F2901.D
Sampled:
Prepared:
Analyzed: 09/28/11 17:38
Solids:
Preparation: EXT_3510
Dilution:
Batch: 1I23014
Sequence: 1J27601
Calibration: 1275001
Instrument: GL-ECD3

CAS NO.	COMPOUND	CONC. (ug/L)	DL	LOD	LOQ	Q
12674-11-2	Aroclor-1016	7.541	0.120	0.250	0.500	X
11104-28-2	Aroclor-1221		0.120	0.250	0.500	U
11141-16-5	Aroclor-1232		0.120	0.250	0.500	U
53469-21-9	Aroclor-1242		0.120	0.250	0.500	U
12672-29-6	Aroclor-1248		0.120	0.250	0.500	U
11097-69-1	Aroclor-1254		0.120	0.250	0.500	U
11096-82-5	Aroclor-1260	6.434	0.120	0.250	0.500	X

SYSTEM MONITORING COMPOUND	ADDED (ug/L)	CONC (ug/L)	% REC	QC LIMITS	Q
Tetrachloro-m-xylene	0.5000	0.3778	75.6	25 - 140	
Decachlorobiphenyl	0.5000	0.2982	59.6	40 - 135	

ANALYSIS DATA SHEET

LCS

Laboratory: Empirical Laboratories, LLC SDG: 1109191

Client: Tetra Tech NUS, Inc. (T010) Project: Navy Fuel Depot CTO JM46

Matrix: Laboratory ID: 1I23014-BS1 File ID: 029R2901.D

Sampled: Prepared: Analyzed: 09/28/11 17:38

Solids: Preparation: EXT_3510 Dilution:

Batch: 1I23014 Sequence: 1J27601 Calibration: 1275001 Instrument: GL-ECD3

CAS NO.	COMPOUND	CONC. (ug/L)	DL	LOD	LOQ	Q
12674-11-2	Aroclor-1016 [2C]	9.351	0.120	0.250	0.500	X
11104-28-2	Aroclor-1221 [2C]		0.120	0.250	0.500	U
11141-16-5	Aroclor-1232 [2C]		0.120	0.250	0.500	U
53469-21-9	Aroclor-1242 [2C]		0.120	0.250	0.500	U
12672-29-6	Aroclor-1248 [2C]		0.120	0.250	0.500	U
11097-69-1	Aroclor-1254 [2C]		0.120	0.250	0.500	U
11096-82-5	Aroclor-1260 [2C]	9.205	0.120	0.250	0.500	X

SYSTEM MONITORING COMPOUND	ADDED (ug/L)	CONC (ug/L)	% REC	QC LIMITS	Q
Tetrachloro-m-xylene [2C]	0.5000	0.3784	75.7	25 - 140	
Decachlorobiphenyl [2C]	0.5000	0.3177	63.5	40 - 135	

ANALYSIS DATA SHEET

LCS Dup

Laboratory: Empirical Laboratories, LLC SDG: 1109191

Client: Tetra Tech NUS, Inc. (T010) Project: Navy Fuel Depot CTO JM46

Matrix: Laboratory ID: 1I23014-BSD1 File ID: 030F3001.D

Sampled: Prepared: Analyzed: 09/28/11 17:57

Solids: Preparation: EXT_3510 Dilution:

Batch: 1I23014 Sequence: 1J27601 Calibration: 1275001 Instrument: GL-ECD3

CAS NO.	COMPOUND	CONC. (ug/L)	DL	LOD	LOQ	Q
12674-11-2	Aroclor-1016	7.247	0.120	0.250	0.500	X
11104-28-2	Aroclor-1221		0.120	0.250	0.500	U
11141-16-5	Aroclor-1232		0.120	0.250	0.500	U
53469-21-9	Aroclor-1242		0.120	0.250	0.500	U
12672-29-6	Aroclor-1248		0.120	0.250	0.500	U
11097-69-1	Aroclor-1254		0.120	0.250	0.500	U
11096-82-5	Aroclor-1260	6.193	0.120	0.250	0.500	X

SYSTEM MONITORING COMPOUND	ADDED (ug/L)	CONC (ug/L)	% REC	QC LIMITS	Q
Tetrachloro-m-xylene	0.5000	0.3054	61.1	25 - 140	
Decachlorobiphenyl	0.5000	0.3124	62.5	40 - 135	

ANALYSIS DATA SHEET

LCS Dup

Laboratory: Empirical Laboratories, LLC SDG: 1109191

Client: Tetra Tech NUS, Inc. (T010) Project: Navy Fuel Depot CTO JM46

Matrix: Laboratory ID: 1I23014-BSD1 File ID: 030R3001.D

Sampled: Prepared: Analyzed: 09/28/11 17:57

Solids: Preparation: EXT_3510 Dilution:

Batch: 1I23014 Sequence: 1J27601 Calibration: 1275001 Instrument: GL-ECD3

CAS NO.	COMPOUND	CONC. (ug/L)	DL	LOD	LOQ	Q
12674-11-2	Aroclor-1016 [2C]	9.033	0.120	0.250	0.500	X
11104-28-2	Aroclor-1221 [2C]		0.120	0.250	0.500	U
11141-16-5	Aroclor-1232 [2C]		0.120	0.250	0.500	U
53469-21-9	Aroclor-1242 [2C]		0.120	0.250	0.500	U
12672-29-6	Aroclor-1248 [2C]		0.120	0.250	0.500	U
11097-69-1	Aroclor-1254 [2C]		0.120	0.250	0.500	U
11096-82-5	Aroclor-1260 [2C]	8.993	0.120	0.250	0.500	X

SYSTEM MONITORING COMPOUND	ADDED (ug/L)	CONC (ug/L)	% REC	QC LIMITS	Q
Tetrachloro-m-xylene [2C]	0.5000	0.3155	63.1	25 - 140	
Decachlorobiphenyl [2C]	0.5000	0.3358	67.2	40 - 135	

ANALYSIS DATA SHEET

LCS

Laboratory: Empirical Laboratories, LLC SDG: 1109191

Client: Tetra Tech NUS, Inc. (T010) Project: Navy Fuel Depot CTO JM46

Matrix: Laboratory ID: 1I29016-BS1 File ID: 049F4901.D

Sampled: Prepared: Analyzed: 10/13/11 04:16

Solids: Preparation: EXT_3546 Dilution:

Batch: 1I29016 Sequence: 1J28715 Calibration: 1286006 Instrument: GL-ECD3

CAS NO.	COMPOUND	ONC. (ug/Kg we	DL	LOD	LOQ	Q
12674-11-2	Aroclor-1016	84.01	4.20	8.33	17.0	
11104-28-2	Aroclor-1221		4.20	8.33	17.0	U
11141-16-5	Aroclor-1232		4.20	8.33	17.0	U
53469-21-9	Aroclor-1242		4.20	8.33	17.0	U
12672-29-6	Aroclor-1248		4.20	8.33	17.0	U
11097-69-1	Aroclor-1254		4.20	8.33	17.0	U
11096-82-5	Aroclor-1260	329.3	4.20	8.33	17.0	

SYSTEM MONITORING COMPOUND	ADDED (ug/Kg wet)	CONC (ug/Kg wet)	% REC	QC LIMITS	Q
Tetrachloro-m-xylene	16.67	31.46	189	70 - 125	
Decachlorobiphenyl	16.67	31.33	188	60 - 125	

ANALYSIS DATA SHEET

LCS

Laboratory: Empirical Laboratories, LLC
SDG: 1109191
Client: Tetra Tech NUS, Inc. (T010)
Project: Navy Fuel Depot CTO JM46
Matrix:
Laboratory ID: 1I29016-BS1
File ID: 049R4901.D
Sampled:
Prepared:
Analyzed: 10/13/11 04:16
Solids:
Preparation: EXT_3546
Dilution:
Batch: 1I29016
Sequence: 1J28715
Calibration: 1286006
Instrument: GL-ECD3

CAS NO.	COMPOUND	ONC. (ug/Kg we	DL	LOD	LOQ	Q
12674-11-2	Aroclor-1016 [2C]	126.6	4.20	8.33	17.0	X
11104-28-2	Aroclor-1221 [2C]		4.20	8.33	17.0	U
11141-16-5	Aroclor-1232 [2C]		4.20	8.33	17.0	U
53469-21-9	Aroclor-1242 [2C]		4.20	8.33	17.0	U
12672-29-6	Aroclor-1248 [2C]		4.20	8.33	17.0	U
11097-69-1	Aroclor-1254 [2C]		4.20	8.33	17.0	X U
11096-82-5	Aroclor-1260 [2C]	492.2	4.20	8.33	17.0	X

SYSTEM MONITORING COMPOUND	ADDED (ug/Kg wet)	CONC (ug/Kg wet)	% REC	QC LIMITS	Q
Tetrachloro-m-xylene [2C]	16.67	31.32	188	70 - 125	
Decachlorobiphenyl [2C]	16.67	32.61	196	60 - 125	

ANALYSIS DATA SHEET

Matrix Spike

Laboratory: Empirical Laboratories, LLC SDG: 1109191

Client: Tetra Tech NUS, Inc. (T010) Project: Navy Fuel Depot CTO JM46

Matrix: Laboratory ID: 1I29016-MS1 File ID: 054F5401.D

Sampled: Prepared: Analyzed: 10/13/11 05:50

Solids: Preparation: EXT_3546 Dilution:

Batch: 1I29016 Sequence: 1J28715 Calibration: 1286006 Instrument: GL-ECD3

CAS NO.	COMPOUND	CONC. (ug/Kg dry)	DL	LOD	LOQ	Q
12674-11-2	Aroclor-1016	72.98	4.26	8.44	17.2	
11104-28-2	Aroclor-1221		4.26	8.44	17.2	U
11141-16-5	Aroclor-1232		4.26	8.44	17.2	U
53469-21-9	Aroclor-1242		4.26	8.44	17.2	U
12672-29-6	Aroclor-1248		4.26	8.44	17.2	U
11097-69-1	Aroclor-1254		4.26	8.44	17.2	U
11096-82-5	Aroclor-1260	292.0	4.26	8.44	17.2	

SYSTEM MONITORING COMPOUND	ADDED (ug/Kg dry)	CONC (ug/Kg dry)	% REC	QC LIMITS	Q
Tetrachloro-m-xylene	16.89	27.67	164	70 - 125	
Decachlorobiphenyl	16.89	26.17	155	60 - 125	

ANALYSIS DATA SHEET

Matrix Spike

Laboratory: Empirical Laboratories, LLC SDG: 1109191

Client: Tetra Tech NUS, Inc. (T010) Project: Navy Fuel Depot CTO JM46

Matrix: Laboratory ID: 1I29016-MS1 File ID: 054R5401.D

Sampled: Prepared: Analyzed: 10/13/11 05:50

Solids: Preparation: EXT_3546 Dilution:

Batch: 1I29016 Sequence: 1J28715 Calibration: 1286006 Instrument: GL-ECD3

CAS NO.	COMPOUND	CONC. (ug/Kg dry)	DL	LOD	LOQ	Q
12674-11-2	Aroclor-1016 [2C]	105.7	4.26	8.44	17.2	X
11104-28-2	Aroclor-1221 [2C]		4.26	8.44	17.2	U
11141-16-5	Aroclor-1232 [2C]		4.26	8.44	17.2	U
53469-21-9	Aroclor-1242 [2C]		4.26	8.44	17.2	U
12672-29-6	Aroclor-1248 [2C]		4.26	8.44	17.2	U
11097-69-1	Aroclor-1254 [2C]		4.26	8.44	17.2	X U
11096-82-5	Aroclor-1260 [2C]	398.8	4.26	8.44	17.2	X

SYSTEM MONITORING COMPOUND	ADDED (ug/Kg dry)	CONC (ug/Kg dry)	% REC	QC LIMITS	Q
Tetrachloro-m-xylene [2C]	16.89	27.77	164	70 - 125	Y
Decachlorobiphenyl [2C]	16.89	27.96	166	60 - 125	Y

ANALYSIS DATA SHEET

Matrix Spike Dup

Laboratory: Empirical Laboratories, LLC SDG: 1109191

Client: Tetra Tech NUS, Inc. (T010) Project: Navy Fuel Depot CTO JM46

Matrix: Laboratory ID: 1I29016-MSD1 File ID: 055F5501.D

Sampled: Prepared: Analyzed: 10/13/11 06:09

Solids: Preparation: EXT_3546 Dilution:

Batch: 1I29016 Sequence: 1J28715 Calibration: 1286006 Instrument: GL-ECD3

CAS NO.	COMPOUND	CONC. (ug/Kg dry)	DL	LOD	LOQ	Q
12674-11-2	Aroclor-1016	78.42	4.28	8.50	17.3	
11104-28-2	Aroclor-1221		4.28	8.50	17.3	U
11141-16-5	Aroclor-1232		4.28	8.50	17.3	U
53469-21-9	Aroclor-1242		4.28	8.50	17.3	U
12672-29-6	Aroclor-1248		4.28	8.50	17.3	U
11097-69-1	Aroclor-1254		4.28	8.50	17.3	U
11096-82-5	Aroclor-1260	309.5	4.28	8.50	17.3	

SYSTEM MONITORING COMPOUND	ADDED (ug/Kg dry)	CONC (ug/Kg dry)	% REC	QC LIMITS	Q
Tetrachloro-m-xylene	17.00	29.76	175	70 - 125	
Decachlorobiphenyl	17.00	28.35	167	60 - 125	

ANALYSIS DATA SHEET

Matrix Spike Dup

Laboratory: Empirical Laboratories, LLC SDG: 1109191

Client: Tetra Tech NUS, Inc. (T010) Project: Navy Fuel Depot CTO JM46

Matrix: Laboratory ID: 1I29016-MSD1 File ID: 055R5501.D

Sampled: Prepared: Analyzed: 10/13/11 06:09

Solids: Preparation: EXT_3546 Dilution:

Batch: 1I29016 Sequence: 1J28715 Calibration: 1286006 Instrument: GL-ECD3

CAS NO.	COMPOUND	CONC. (ug/Kg dry)	DL	LOD	LOQ	Q
12674-11-2	Aroclor-1016 [2C]	113.7	4.28	8.50	17.3	X
11104-28-2	Aroclor-1221 [2C]		4.28	8.50	17.3	U
11141-16-5	Aroclor-1232 [2C]		4.28	8.50	17.3	U
53469-21-9	Aroclor-1242 [2C]		4.28	8.50	17.3	U
12672-29-6	Aroclor-1248 [2C]		4.28	8.50	17.3	U
11097-69-1	Aroclor-1254 [2C]		4.28	8.50	17.3	X U
11096-82-5	Aroclor-1260 [2C]	417.2	4.28	8.50	17.3	X

SYSTEM MONITORING COMPOUND	ADDED (ug/Kg dry)	CONC (ug/Kg dry)	% REC	QC LIMITS	Q
Tetrachloro-m-xylene [2C]	17.00	29.76	175	70 - 125	Y
Decachlorobiphenyl [2C]	17.00	29.77	175	60 - 125	Y

FORM X
IDENTIFICATION SUMMARY
FOR SINGLE COMPONENT ANALYTES

LCS

Lab Name: Empirical Laboratories, LLC

Lab Sample ID: 1I23014-BS1 Date(s) Analyzed: 09/28/2011 09/28/2011

Instrument ID (1): GL-ECD3 Instrument ID (2): GL-ECD3

GC Column (1): ID: (mm) GC Column (2): ID: (mm)

ANALYTE	COL	RT	RT WINDOW		CONCENTRATION	%D
			FROM	TO		
Aroclor-1016	1	7.29	7.82	7.88	7.541	
	2	6.58	7.10	7.16	9.351	21
Aroclor-1260	1	11.60	12.22	12.28	6.434	
	2	9.41	9.97	10.03	9.205	35

FORM X
IDENTIFICATION SUMMARY
FOR SINGLE COMPONENT ANALYTES

LCS Dup

Lab Name: Empirical Laboratories, LLC

Lab Sample ID: 1I23014-BSD1 Date(s) Analyzed: 09/28/2011 09/28/2011

Instrument ID (1): GL-ECD3 Instrument ID (2): GL-ECD3

GC Column (1): ID: (mm) GC Column (2): ID: (mm)

ANALYTE	COL	RT	RT WINDOW		CONCENTRATION	%D
			FROM	TO		
Aroclor-1016	1	7.29	7.82	7.88	7.247	
	2	6.58	7.10	7.16	9.033	22
Aroclor-1260	1	11.60	12.22	12.28	6.193	
	2	9.41	9.97	10.03	8.993	37

FORM X
IDENTIFICATION SUMMARY
FOR SINGLE COMPONENT ANALYTES

LCS

Lab Name: Empirical Laboratories, LLC

Lab Sample ID: 1I29016-BS1 Date(s) Analyzed: 10/13/2011 10/13/2011

Instrument ID (1): GL-ECD3 Instrument ID (2): GL-ECD3

GC Column (1): ID: (mm) GC Column (2): ID: (mm)

ANALYTE	COL	RT	RT WINDOW		CONCENTRATION	%D
			FROM	TO		
Aroclor-1016	1	7.69	7.67	7.73	84.01	
	2	6.99	6.96	7.02	126.6	40
Aroclor-1260	1	12.07	12.04	12.10	329.3	
	2	9.83	9.80	9.86	492.2	40

FORM X
IDENTIFICATION SUMMARY
FOR SINGLE COMPONENT ANALYTES

Matrix Spike

Lab Name: Empirical Laboratories, LLC

Lab Sample ID: 1I29016-MS1 Date(s) Analyzed: 10/13/2011 10/13/2011

Instrument ID (1): GL-ECD3 Instrument ID (2): GL-ECD3

GC Column (1): ID: (mm) GC Column (2): ID: (mm)

ANALYTE	COL	RT	RT WINDOW		CONCENTRATION	%D
			FROM	TO		
Aroclor-1016	1	7.69	7.67	7.73	72.98	
	2	6.99	6.96	7.02	105.7	37
Aroclor-1260	1	12.07	12.04	12.10	292.0	
	2	9.83	9.80	9.86	398.8	31

FORM X
IDENTIFICATION SUMMARY
FOR SINGLE COMPONENT ANALYTES

Matrix Spike Dup

Lab Name: Empirical Laboratories, LLC

Lab Sample ID: 1I29016-MSD1

Date(s) Analyzed: 10/13/2011 10/13/2011

Instrument ID (1): GL-ECD3

Instrument ID (2): GL-ECD3

GC Column (1): ID: (mm)

GC Column (2): ID: (mm)

ANALYTE	COL	RT	RT WINDOW		CONCENTRATION	%D
			FROM	TO		
Aroclor-1016	1	7.70	7.67	7.73	78.42	
	2	6.99	6.96	7.02	113.7	37
Aroclor-1260	1	12.07	12.04	12.10	309.5	
	2	9.83	9.80	9.86	417.2	30

Data for SW8082A
Supporting Raw Data / Logs

EM210
9.6.11

Sequence Table (Front/Back Injector):

Quantification Part:

Line	Location	SampleName	SampleAmount	ISTDAmt	Multiplier	Dilution
1	Vial 1	PEST PRIMER				
2	Vial 2	SEQ-PEM1 #11H0473				
3	Vial 3	SEQ-CAL1 AB ID# 11H0793				
4	Vial 4	SEQ-CAL2 11H0818				
5	Vial 5	SEQ-CAL3 11H0798				
6	Vial 6	SEQ-CAL4 11H0799				
7	Vial 7	SEQ-CAL5 11H0800				
8	Vial 8	SEQ-CAL6 11H0801				
9	Vial 9	SEQ-CAL7 11H0802				
10	Vial 10	SEQ-ICV1 11H0363				
11	Vial 11	SEQ-CAL~~8~~1 Chlor ID# 11H0247				
12	Vial 12	SEQ-CAL~~9~~2 11H0248				
13	Vial 13	SEQ-CAL~~A~~3 11H0249				
14	Vial 14	SEQ-CAL~~B~~4 11H0250				
15	Vial 15	SEQ-CAL~~C~~5 11H0257				
16	Vial 16	SEQ-CAL~~D~~6 11H0252				
17	Vial 17	SEQ-ICV~~2~~1 11E0903				
18	Vial 18	SEQ-CAL~~E~~7 TOX CALI ID# 11H0151				
19	Vial 19	SEQ-CAL~~F~~8 11H0153				
20	Vial 20	SEQ-CAL~~G~~9 11H0154				
21	Vial 21	SEQ-CAL~~H~~A 11H0155				
22	Vial 22	SEQ-CAL~~I~~B 11H0156				
23	Vial 23	SEQ-CAL~~J~~C 11H0157				
24	Vial 24	SEQ-ICV~~3~~2 11F0088				
25	Vial 25	SEQ-CAL~~K~~D 1660 ID# 11H0841				
26	Vial 26	SEQ-CAL~~L~~E 11H0840				
27	Vial 27	SEQ-CAL~~M~~F 11H0842				
28	Vial 28	SEQ-CAL~~N~~G 11H0844				
29	Vial 29	SEQ-CAL~~O~~H 11H0843				
30	Vial 30	SEQ-CAL~~P~~I 11H0845				
31	Vial 31	SEQ-ICV~~4~~3 11J0051				

NOT NEEDED

NOT USED

~~Sequence Table (Back Injector):~~

~~No entries - empty table!~~

J.H. 9.7.11

Empirical Laboratories, LLC

SW-846 METHODS 8081A/8082

Data file : \\BC\TARGET\chem\ecd3.i\090111.b\025F2501.D
Lab Smp Id: SEQ-CALK
Inj Date : 01-SEP-2011 14:10
Operator : EM Inst ID: ecd3.i
Smp Info : SEQ-CALKD
Misc Info : ;;;;;;AR1660D.sub
Comment :
Method : \\BC\TARGET\chem\ecd3.i\090111.b\8081_82F.m
Meth Date : 06-Sep-2011 00:09 jeh Quant Type: ESTD
Cal Date : 10-AUG-2011 21:08 Cal File: 007F0601.D
Als bottle: 25 Calibration Sample, Level: 1
Dil Factor: 1.00000
Integrator: Falcon Compound Sublist: ar1660.sub
Target Version: 4.04 Sample Matrix: None
Processing Host: NSH-LAPTOP1

RT	EXP RT	DLT RT	RESPONSE	AMOUNTS CAL-AMT (ng/mL)	AMOUNTS ON-COL (ng/mL)	TARGET RANGE	RATIO
29 PCB-1016					CAS #: 12674-11-2		
7.655	7.656	(-0.001)	*3439196	2500.00	2505	80.00- 120.00	100.00
7.080	7.081	(-0.001)	1664462	2500.00	2492	38.72- 58.08	48.40
7.307	7.307	(0.000)	1634255	2500.00	2492	38.01- 57.02	47.52
7.629	7.629	(0.000)	2385387	2500.00	2495	55.49- 83.23	69.36
7.730	7.731	(-0.001)	1955746			45.49- 68.24	56.87
7.847	7.847	(0.000)	1635015	2500.00	2498	38.03- 57.05	47.54
		Average of Peak Amounts =			2497		
35 PCB-1260					CAS #: 11096-82-5		
11.127	11.126	(0.001)	9583535	2500.00 X	2669	80.00- 120.00	100.00(A)
9.634	9.632	(0.002)	3692016			30.82- 46.23	38.52
9.970	9.969	(0.001)	4789999	2500.00	2485	39.99- 59.98	49.98
10.329	10.327	(0.002)	5407787	2500.00	2588	45.14- 67.71	56.43
10.434	10.434	(0.000)	3787335	2500.00	2550	31.62- 47.42	39.52
10.722	10.721	(0.001)	4012977			33.50- 50.25	41.87
11.495	11.496	(-0.001)	5681179			47.42- 71.14	59.28
12.250	12.249	(0.001)	2468754	2500.00	2486	20.61- 30.91	25.76
		Average of Peak Amounts =			2556		

09/15/11

QC Flag Legend

A - Target compound detected but, quantitated amount exceeded maximum amount.

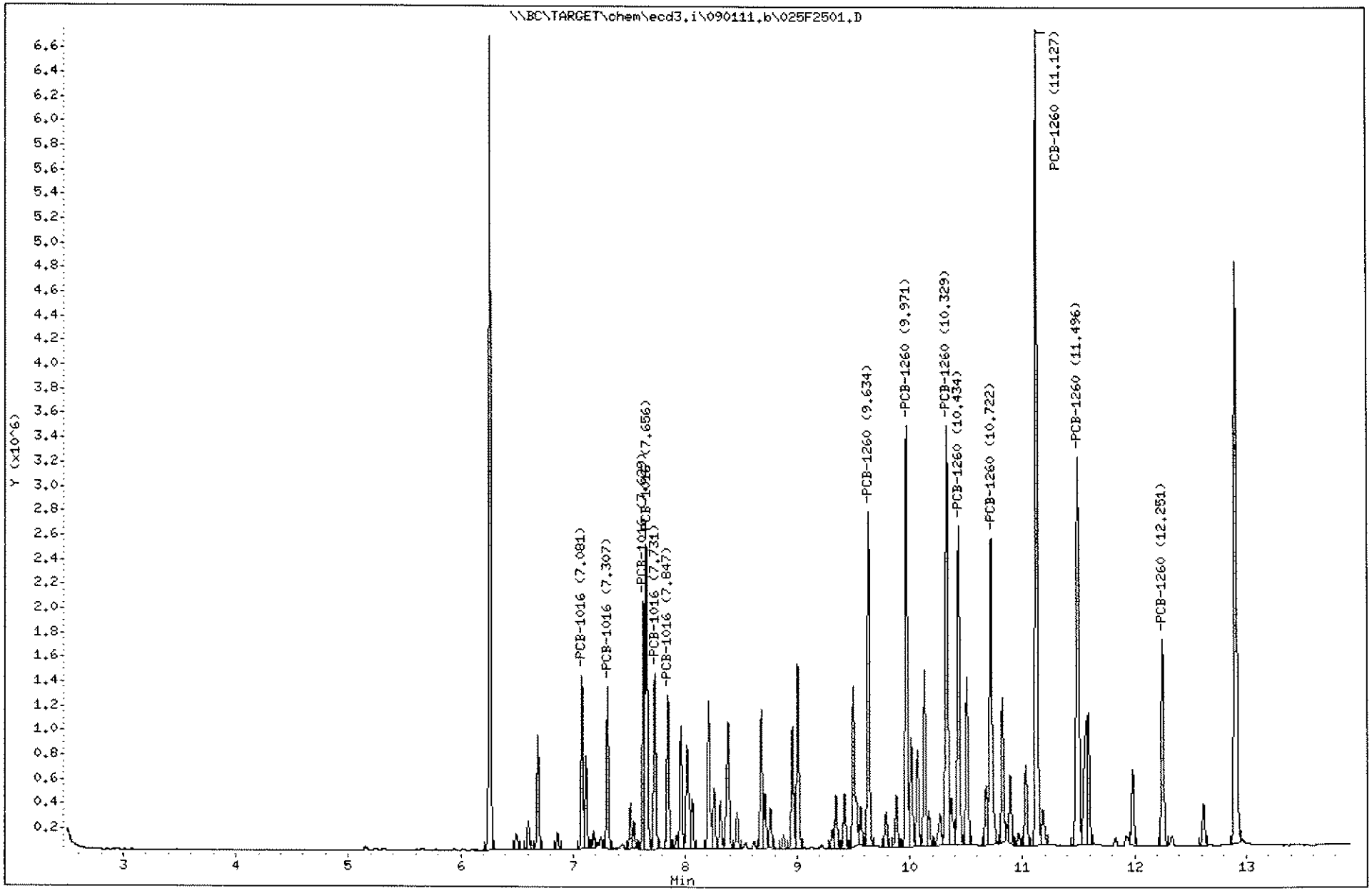
Data File: \\BC\TARGET\chem\ecd3.i\090111.b\025F2501.D
Date : 01-SEP-2011 14:10
Client ID:
Sample Info: SEQ-CALK

Instrument: ecd3.i

Operator: EM

Column phase: ZB MR-1

Column diameter: 0.32



J.H. 9.7.11

Empirical Laboratories, LLC

SW-846 METHODS 8081A/8082

Data file : \\BC\TARGET\chem\ecd3.i\090111.b\026F2601.D
Lab Smp Id: SEQ-CALL
Inj Date : 01-SEP-2011 14:28
Operator : EM Inst ID: ecd3.i
Smp Info : SEQ-CALLE
Misc Info : ;;;;;;AR1660D.sub
Comment :
Method : \\BC\TARGET\chem\ecd3.i\090111.b\8081_82F.m
Meth Date : 06-Sep-2011 00:09 jeh Quant Type: ESTD
Cal Date : 10-AUG-2011 21:08 Cal File: 007F0601.D
Als bottle: 26 Calibration Sample, Level: 2
Dil Factor: 1.00000
Integrator: Falcon Compound Sublist: ar1660.sub
Target Version: 4.04 Sample Matrix: None
Processing Host: NSH-LAPTOP1

RT	EXP RT	DLT RT	RESPONSE	AMOUNTS CAL-AMT (ng/mL)	AMOUNTS ON-COL (ng/mL)	TARGET RANGE	RATIO
29 PCB-1016					CAS #: 12674-11-2		
7.655	7.656	(-0.001)	1408098	1000.00	993.5	80.00- 120.00	100.00
7.080	7.081	(-0.001)	* 679648	1000.00	1009	38.61- 57.92	48.27
7.307	7.307	(0.000)	666611	1000.00	1008	37.87- 56.81	47.34
7.629	7.629	(0.000)	965136	1000.00	1004	54.83- 82.25	68.54
7.730	7.731	(-0.001)	796187			45.23- 67.85	56.54
7.847	7.847	(0.000)	657367	1000.00	1004	37.35- 56.02	46.68
		Average of Peak Amounts =			1004		
35 PCB-1260					CAS #: 11096-82-5		
11.125	11.126	(-0.001)	3683304	1000.00 X	1026	80.00- 120.00	100.00
9.632	9.632	(0.000)	1468881			31.90- 47.86	39.88
9.969	9.969	(0.000)	1893477	1000.00	982.3	41.13- 61.69	51.41
10.327	10.327	(0.000)	2124221	1000.00	1017	46.14- 69.21	57.67
10.434	10.434	(0.000)	1499595	1000.00	1009	32.57- 48.86	40.71
10.720	10.721	(-0.001)	1592709			34.59- 51.89	43.24
11.495	11.496	(-0.001)	2227009			48.37- 72.55	60.46
12.249	12.249	(0.000)	975345	1000.00	982.1	21.18- 31.78	26.48
		Average of Peak Amounts =			1003		

09/15/11

Data File: \\BC\TARGET\chem\ecd3.i\090111.b\026F2601.D

Date : 01-SEP-2011 14:28

Client ID:

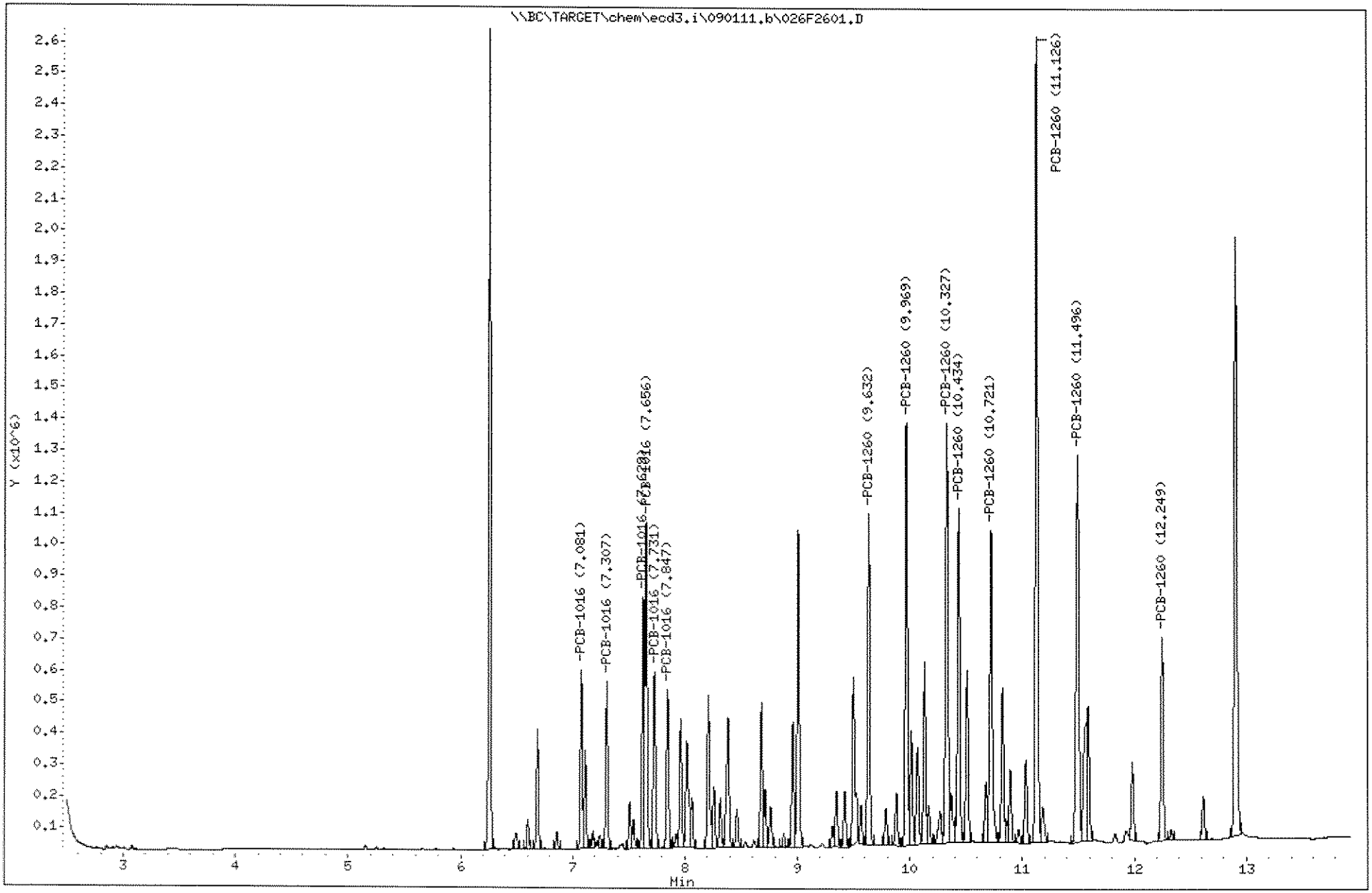
Sample Info: SEQ-CALL

Column phase: ZB MR-1

Instrument: ecd3.i

Operator: EM

Column diameter: 0.32



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SW-846 METHODS 8081A/8082

Data file : \\BC\TARGET\chem\ecd3.i\090111.b\027F2701.D
Lab Smp Id: SEQ-CALM
Inj Date : 01-SEP-2011 14:47
Operator : EM Inst ID: ecd3.i
Smp Info : SEQ-CALMF
Misc Info : ;;;;;;AR1660D.sub
Comment :
Method : \\BC\TARGET\chem\ecd3.i\090111.b\8081_82F.m
Meth Date : 06-Sep-2011 00:09 jeh Quant Type: ESTD
Cal Date : 10-AUG-2011 21:08 Cal File: 007F0601.D
Als bottle: 27 Calibration Sample, Level: 3
Dil Factor: 1.00000
Integrator: Falcon Compound Sublist: ar1660.sub
Target Version: 4.04 Sample Matrix: None
Processing Host: NSH-LAPTOP1

RT	EXP RT	DLT RT	RESPONSE	AMOUNTS CAL-AMT (ng/mL)	AMOUNTS ON-COL (ng/mL)	TARGET RANGE	RATIO
29 PCB-1016					CAS #: 12674-11-2		
7.655	7.656	(-0.001)	1095895	750.000	761.2	80.00- 120.00	100.00
7.080	7.081	(-0.001)	529195	750.000 X	782.5	38.63- 57.95	48.29
7.307	7.307	(0.000)	* 521624	750.000	785.6	38.08- 57.12	47.60
7.629	7.629	(0.000)	756228	750.000	784.8	55.20- 82.81	69.01
7.729	7.731	(-0.002)	619308			45.21- 67.81	56.51
7.845	7.847	(-0.002)	504935	750.000	770.6	36.86- 55.29	46.08
Average of Peak Amounts =					777		
35 PCB-1260					CAS #: 11096-82-5		
11.127	11.126	(0.001)	2756704	750.000	767.8	80.00- 120.00	100.00
9.634	9.632	(0.002)	1131689			32.84- 49.26	41.05
9.969	9.969	(0.000)	1441254	750.000	747.7	41.83- 62.74	52.28
10.327	10.327	(0.000)	1610283	750.000	770.7	46.73- 70.10	58.41
10.432	10.434	(-0.002)	1139024	750.000	766.8	33.05- 49.58	41.32
10.720	10.721	(-0.001)	1206243			35.01- 52.51	43.76
11.494	11.496	(-0.002)	1676005			48.64- 72.96	60.80
12.250	12.249	(0.001)	728560	750.000	733.6	21.14- 31.71	26.43
Average of Peak Amounts =					757.3		

09/15/11

Data File: \\BC\TARGET\chem\ecd3.i\090111.b\027F2701.D

Date : 01-SEP-2011 14:47

Client ID:

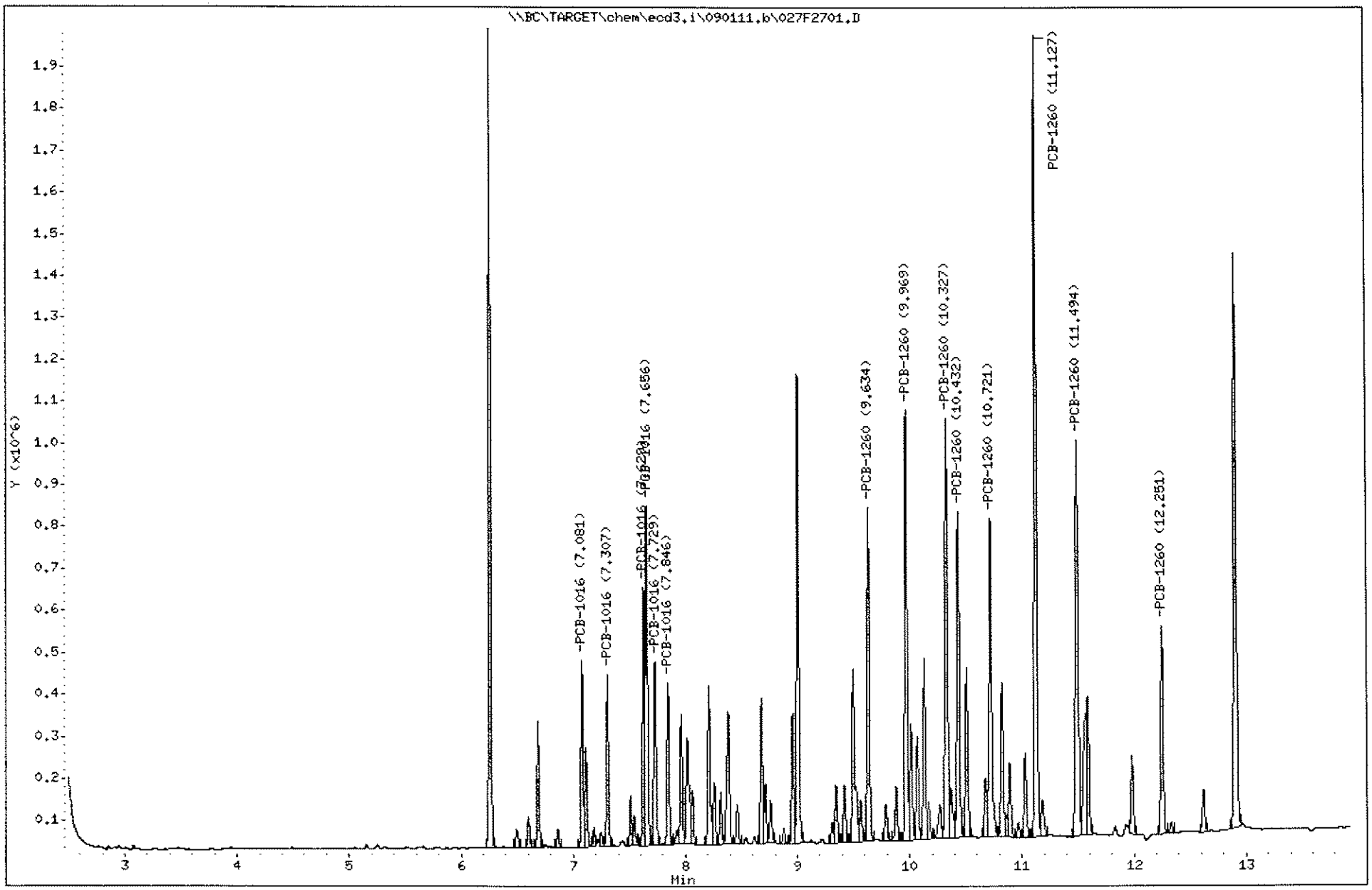
Sample Info: SEQ-CALM

Column phase: ZB HR-1

Instrument: ecd3.i

Operator: EM

Column diameter: 0.32



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SW-846 METHODS 8081A/8082

Data file : \\BC\TARGET\chem\ecd3.i\090111.b\028F2801.D
Lab Smp Id: SEQ-CALN
Inj Date : 01-SEP-2011 15:06
Operator : EM Inst ID: ecd3.i
Smp Info : SEQ-CALNG
Misc Info : ;;;;;;AR1660D.sub
Comment :
Method : \\BC\TARGET\chem\ecd3.i\090111.b\8081_82F.m
Meth Date : 06-Sep-2011 00:09 jeh Quant Type: ESTD
Cal Date : 10-AUG-2011 21:08 Cal File: 007F0601.D
Als bottle: 28 Calibration Sample, Level: 4
Dil Factor: 1.00000
Integrator: Falcon Compound Sublist: ar1660.sub
Target Version: 4.04 Sample Matrix: None
Processing Host: NSH-LAPTOP1

RT	EXP RT	DLT RT	RESPONSE	AMOUNTS CAL-AMT (ng/mL)	AMOUNTS ON-COL (ng/mL)	TARGET RANGE	RATIO
29 PCB-1016					CAS #: 12674-11-2		
7.655	7.656	(-0.001)	692962	500.000 X	461.3	80.00- 120.00	100.00
7.080	7.081	(-0.001)	320741	500.000	468.6	37.03- 55.54	46.29
7.306	7.307	(-0.001)	311293	500.000	463.0	35.94- 53.91	44.92
7.628	7.629	(-0.001)	* 445578	500.000	458.7	51.44- 77.16	64.30
7.728	7.731	(-0.003)	379357			43.80- 65.69	54.74
7.846	7.847	(-0.001)	303069	500.000	462.0	34.99- 52.48	43.74
		Average of Peak Amounts =			462.7		
35 PCB-1260					CAS #: 11096-82-5		
11.126	11.126	(0.000)	1541228	500.000	429.2	80.00- 120.00	100.00
9.633	9.632	(0.001)	654594			33.98- 50.97	42.47
9.970	9.969	(0.001)	829604	500.000	430.4	43.06- 64.59	53.83
10.328	10.327	(0.001)	892285	500.000	427.1	46.32- 69.47	57.89
10.433	10.434	(-0.001)	629607	500.000	423.8	32.68- 49.02	40.85
10.721	10.721	(0.000)	691797			35.91- 53.86	44.89
11.495	11.496	(-0.001)	937513			48.66- 72.99	60.83
12.250	12.249	(0.001)	408214	500.000	411.0	21.19- 31.78	26.49
		Average of Peak Amounts =			424.3		

09/15/11

Data File: \\BC\TARGET\chem\ecd3.i\090111.b\028F2801.D

Date : 01-SEP-2011 15:06

Client ID:

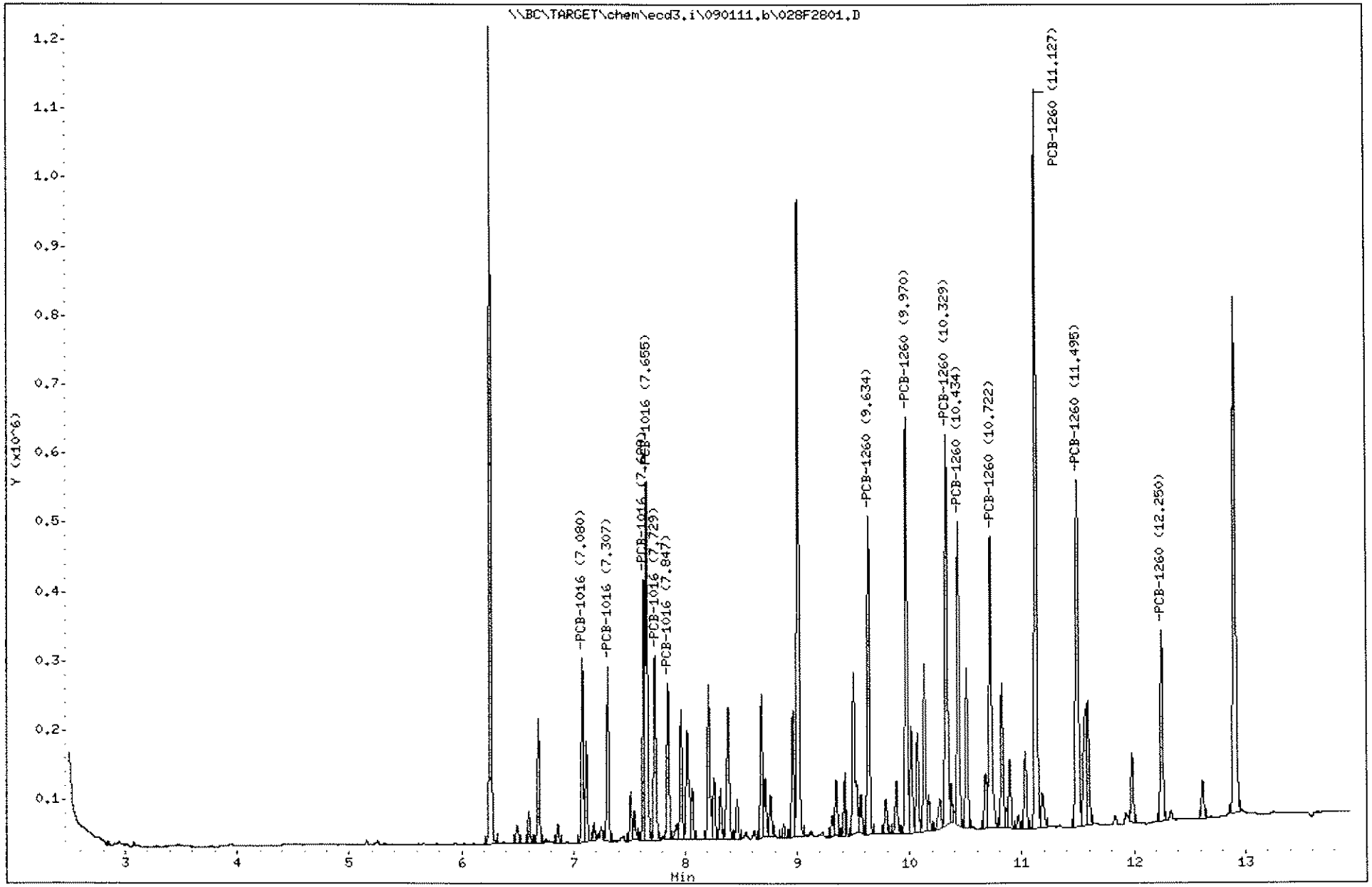
Sample Info: SEQ-CALN

Column phase: ZB MR-1

Instrument: ecd3.i

Operator: EM

Column diameter: 0.32



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SW-846 METHODS 8081A/8082

Data file : \\BC\TARGET\chem\ecd3.i\090111.b\029F2901.D
Lab Smp Id: SEQ-CALO
Inj Date : 01-SEP-2011 15:25
Operator : EM Inst ID: ecd3.i
Smp Info : SEQ-CALØH
Misc Info : ;;;;;;AR1660D.sub
Comment :
Method : \\BC\TARGET\chem\ecd3.i\090111.b\8081_82F.m
Meth Date : 06-Sep-2011 00:09 jeh Quant Type: ESTD
Cal Date : 10-AUG-2011 21:08 Cal File: 007F0601.D
Als bottle: 29 Calibration Sample, Level: 5
Dil Factor: 1.00000
Integrator: Falcon Compound Sublist: ar1660.sub
Target Version: 4.04 Sample Matrix: None
Processing Host: NSH-LAPTOP1

RT	EXP RT	DLT RT	RESPONSE	AMOUNTS CAL-AMT (ng/mL)	ON-COL (ng/mL)	TARGET RANGE	RATIO
29 PCB-1016					CAS #: 12674-11-2		
7.654	7.656	(-0.002)	226824	100.000	114.3	80.00- 120.00	100.00
7.079	7.081	(-0.002)	77704	100.000	102.6	27.41- 41.11	34.26
7.306	7.307	(-0.001)	78829	100.000	106.5	27.80- 41.70	34.75
7.628	7.629	(-0.001)	110721	100.000	107.3	39.05- 58.58	48.81
7.729	7.731	(-0.002)	110082			38.83- 58.24	48.53
7.846	7.847	(-0.001)	*73646	100.000	111.2	25.97- 38.96	32.47
		Average of Peak Amounts =			108.4		
35 PCB-1260					CAS #: 11096-82-5		
11.126	11.126	(0.000)	364922	100.000	101.6	80.00- 120.00	100.00
9.633	9.632	(0.001)	164033			35.96- 53.94	44.95
9.969	9.969	(0.000)	206382	100.000	107.1	45.24- 67.87	56.56
10.328	10.327	(0.001)	215442	100.000	103.1	47.23- 70.85	59.04
10.434	10.434	(0.000)	154743	100.000	104.2	33.92- 50.89	42.40
10.721	10.721	(0.000)	173613			38.06- 57.09	47.58
11.494	11.496	(-0.002)	225379			49.41- 74.11	61.76
12.251	12.249	(0.002)	100989	100.000	101.7	22.14- 33.21	27.67
		Average of Peak Amounts =			103.5		

09/15/11

Data File: \\BC\TARGET\chem\ecd3.i\090111.b\029F2901.D

Date : 01-SEP-2011 15:25

Client ID:

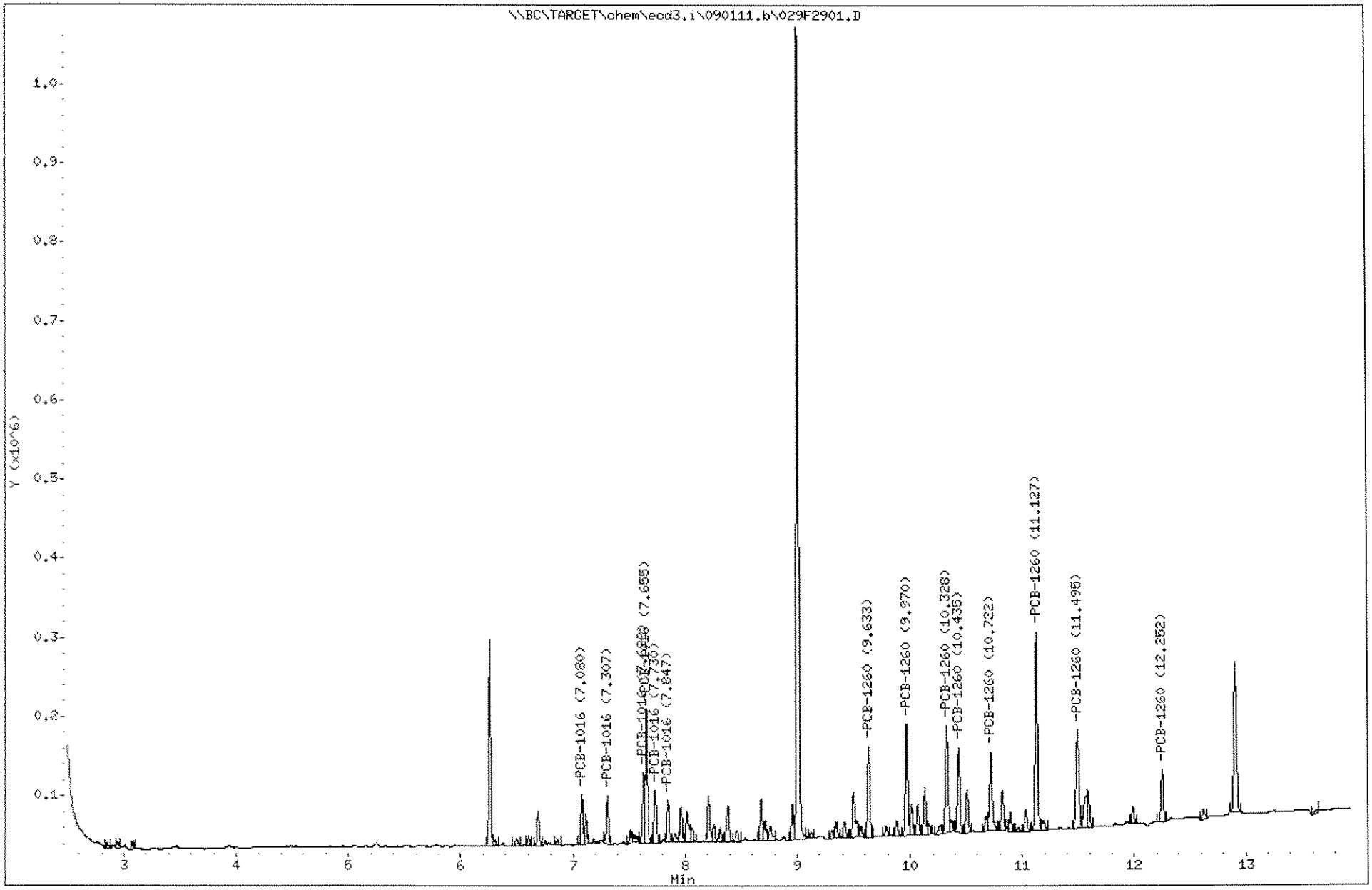
Instrument: ecd3.i

Sample Info: SEQ-CALO

Operator: EM

Column phase: ZB MR-1

Column diameter: 0.32



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SW-846 METHODS 8081A/8082

Data file : \\BC\TARGET\chem\ecd3.i\090111.b\030F3001.D
Lab Smp Id: SEQ-CALP
Inj Date : 01-SEP-2011 15:43
Operator : EM Inst ID: ecd3.i
Smp Info : SEQ-CALPI
Misc Info : ;;;;;;AR1660D.sub
Comment :
Method : \\BC\TARGET\chem\ecd3.i\090111.b\8081_82F.m
Meth Date : 06-Sep-2011 00:10 jeh Quant Type: ESTD
Cal Date : 10-AUG-2011 21:08 Cal File: 007F0601.D
Als bottle: 30 Calibration Sample, Level: 6
Dil Factor: 1.00000
Integrator: Falcon Compound Sublist: ar1660.sub
Target Version: 4.04 Sample Matrix: None
Processing Host: NSH-LAPTOP1

RT	EXP RT	DLT RT	RESPONSE	AMOUNTS CAL-AMT (ng/mL)	ON-COL (ng/mL)	TARGET RANGE	RATIO
29 PCB-1016					CAS #: 12674-11-2		
7.656	7.656	(0.000)	159715	50.0000	64.39	80.00- 120.00	100.00
7.079	7.081	(-0.002)	39510	50.0000	45.14	19.79- 29.69	24.74
7.306	7.307	(-0.001)	38503	50.0000	44.62	19.29- 28.93	24.11
7.628	7.629	(-0.001)	56551	50.0000	50.44	28.33- 42.49	35.41
7.733	7.731	(0.002)	69003			34.56- 51.84	43.20
7.846	7.847	(-0.001)	36160	50.0000	53.87	18.11- 27.17	22.64
		Average of Peak Amounts =			51.69		
35 PCB-1260					CAS #: 11096-82-5		
11.126	11.126	(0.000)	180985	50.0000	50.40	80.00- 120.00	100.00
9.633	9.632	(0.001)	84685			37.43- 56.15	46.79
9.969	9.969	(0.000)	*105543	50.0000	54.76	46.65- 69.98	58.32
10.328	10.327	(0.001)	108123	50.0000	51.75	47.79- 71.69	59.74
10.433	10.434	(-0.001)	78660	50.0000	52.95	34.77- 52.15	43.46
10.721	10.721	(0.000)	87843			38.83- 58.24	48.54
11.494	11.496	(-0.002)	113958			50.37- 75.56	62.97
12.249	12.249	(0.000)	59917	50.0000	60.33	26.48- 39.73	33.11
		Average of Peak Amounts =			54.04		

09/15/11

Data File: \\BC\TARGET\chem\ecd3.i\090111.b\030F3001.D

Date : 01-SEP-2011 15:43

Client ID:

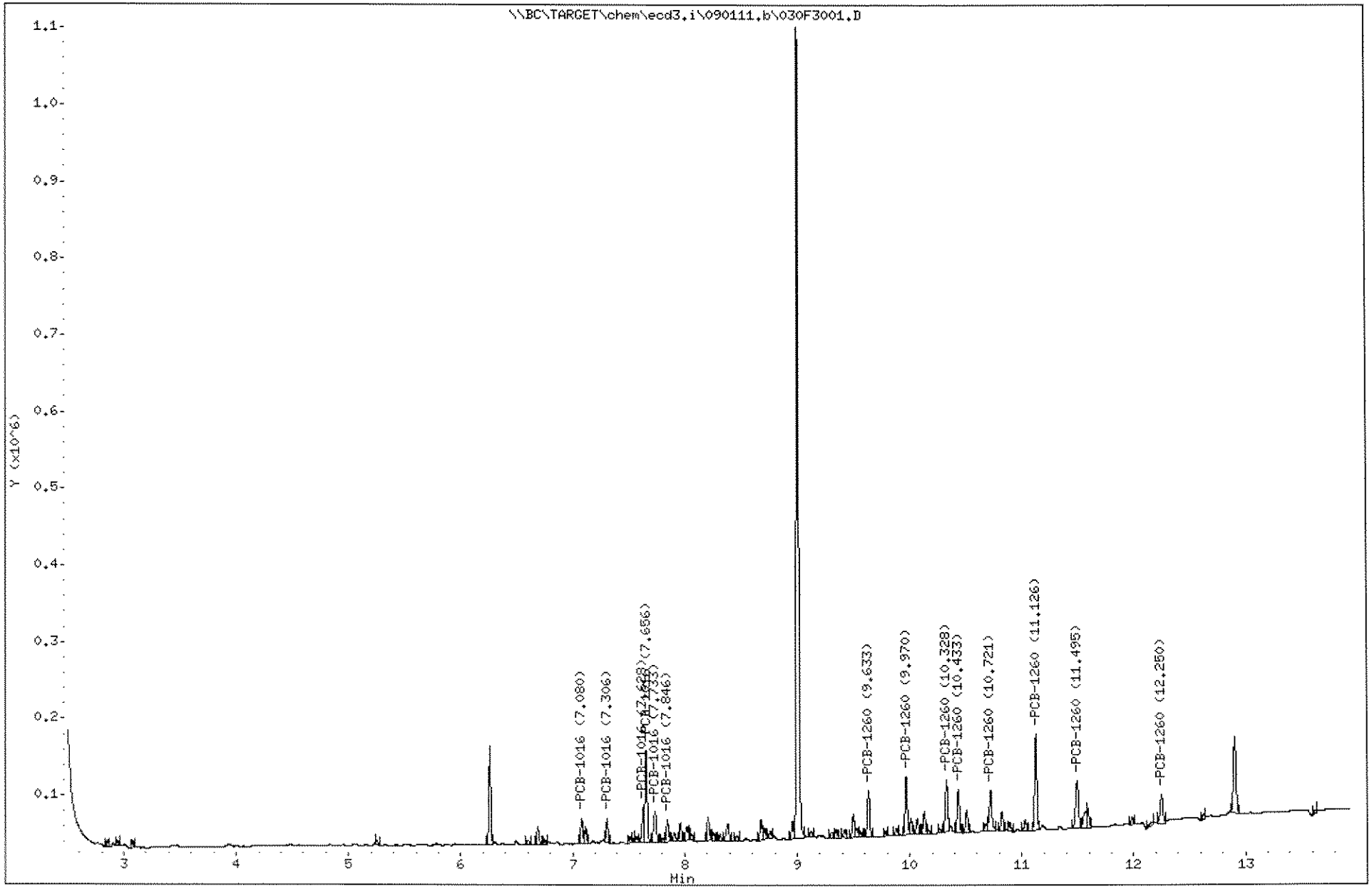
Instrument: ecd3.i

Sample Info: SEQ-CALP

Operator: EM

Column phase: ZB MR-1

Column diameter: 0.32



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SW-846 METHODS 8081A/8082

Data file : \\BC\TARGET\chem\ecd3.i\090111.b\031F3101.D
Lab Smp Id: SEQ-ICV4
Inj Date : 01-SEP-2011 16:02
Operator : EM Inst ID: ecd3.i
Smp Info : SEQ-ICV~~4~~3
Misc Info : ;;;;;;AR1660D.sub
Comment :
Method : \\BC\TARGET\chem\ecd3.i\090111.b\8081_82F.m
Meth Date : 06-Sep-2011 00:10 jeh Quant Type: ESTD
Cal Date : 10-AUG-2011 21:08 Cal File: 007F0601.D
Als bottle: 31 Continuing Calibration Sample
Dil Factor: 1.00000
Integrator: Falcon Compound Sublist: ar1660.sub
Target Version: 4.04 Sample Matrix: None
Processing Host: NSH-LAPTOP1

RT	EXP RT	DLT RT	RESPONSE	AMOUNTS CAL-AMT (ng/mL)	AMOUNTS ON-COL (ng/mL)	TARGET RANGE	RATIO
**	======	========	========	=======	=======	==========	=====
29 PCB-1016					CAS #: 12674-11-2		
7.656	7.656	(0.000)	1372674	1000.00	967.2	80.00- 120.00	100.00
7.079	7.081	(-0.002)	714374	1000.00	1061	41.63- 62.45	52.04
7.306	7.307	(-0.001)	688826	1000.00	1042	40.15- 60.22	50.18
7.629	7.629	(0.000)	1011514	1000.00	1053	58.95- 88.43	73.69
7.729	7.731	(-0.002)	810388			47.23- 70.84	59.04
7.846	7.847	(-0.001)	676683	1000.00	1033	39.44- 59.16	49.30
		Average of Peak Amounts =			~~X~~ 1031		
35 PCB-1260					CAS #: 11096-82-5		
11.126	11.126	(0.000)	3346136	1000.00	931.9	80.00- 120.00	100.00
9.632	9.632	(0.000)	1495210			35.75- 53.62	44.68
9.969	9.969	(0.000)	1916619	1000.00	994.4	45.82- 68.73	57.28
10.327	10.327	(0.000)	* 2228837	1000.00	1067	53.29- 79.93	66.61
10.432	10.434	(-0.002)	1246918	1000.00	839.4	29.81- 44.72	37.26
10.721	10.721	(0.000)	1471204			35.17- 52.76	43.97
11.496	11.496	(0.000)	2051194			49.04- 73.56	61.30
12.251	12.249	(0.002)	800550	1000.00	806.1	19.14- 28.71	23.92
		Average of Peak Amounts =			927.7		

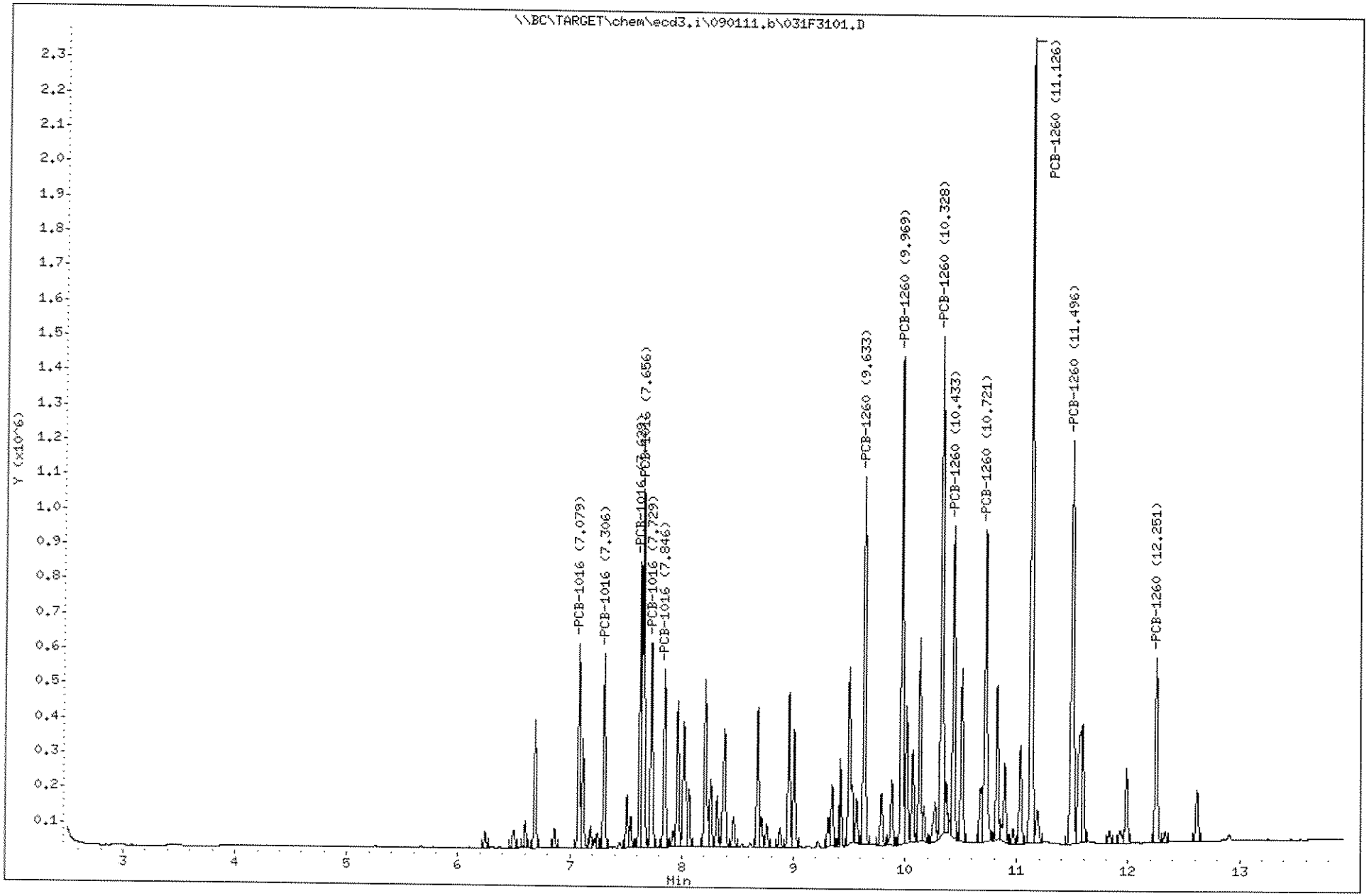
09/15/11

Data File: \\BC\TARGET\chem\ecd3.i\090111.b\031F3101.D
Date : 01-SEP-2011 16:02
Client ID:
Sample Info: SEQ-ICV4

Column phase: ZB MR-1

Instrument: ecd3.i

Operator: EM
Column diameter: 0.32



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SW-846 METHODS 8081A/8082

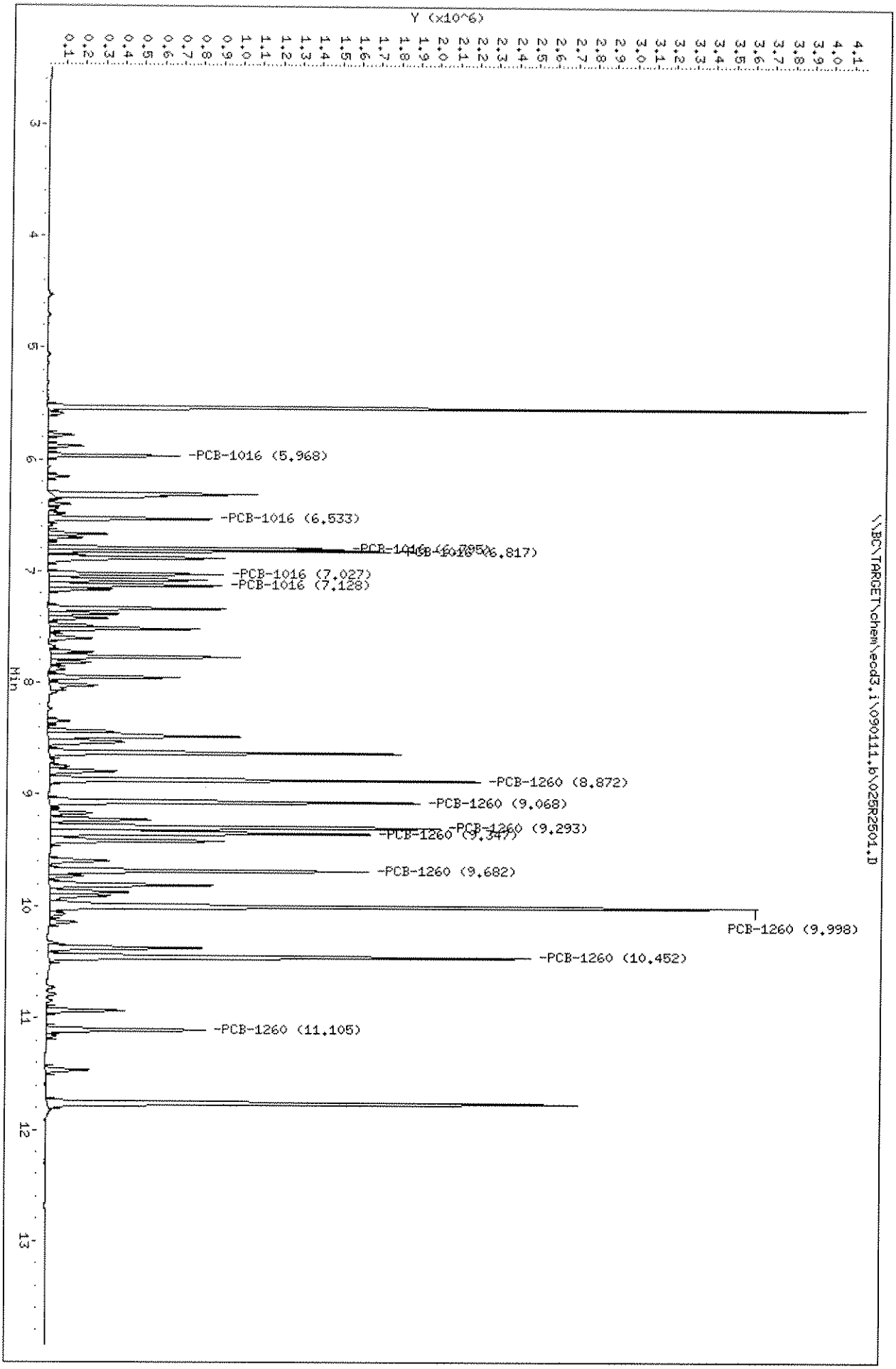
Data file : \\BC\TARGET\chem\ecd3.i\090111.b\025R2501.D
Lab Smp Id: SEQ-CALK
Inj Date : 01-SEP-2011 14:10
Operator : EM Inst ID: ecd3.i
Smp Info : SEQ-CALK D
Misc Info : ;;;;;;AR1660D.sub
Comment :
Method : \\BC\TARGET\chem\ecd3.i\090111.b\8081_82R.m
Meth Date : 05-Sep-2011 23:11 jeh Quant Type: ESTD
Cal Date : 01-SEP-2011 14:28 Cal File: 026R2601.D
Als bottle: 25 Calibration Sample, Level: 1
Dil Factor: 1.00000
Integrator: Falcon Compound Sublist: ar1660.sub
Target Version: 4.04 Sample Matrix: None
Processing Host: NSH-LAPTOP1

RT	EXP RT	DLT RT	RESPONSE	AMOUNTS CAL-AMT (ng/mL)	AMOUNTS ON-COL (ng/mL)	TARGET RANGE	RATIO
**	======	========	========	=======	=======	==========	=====
29 PCB-1016 [2C]					CAS #: 12674-11-2		
6.816	6.815	(0.001)	2224351	2500.00	1526	80.00- 120.00	100.00
5.968	5.966	(0.002)	813572			29.26- 43.89	36.58
6.533	6.533	(0.000)	1274852	2500.00	1492	45.85- 68.78	57.31
6.795	6.793	(0.002)	1869884	2500.00 K	2054	67.25- 100.88	84.06
7.026	7.026	(0.000)	1266019	2500.00	1661	45.53- 68.30	56.92
7.128	7.126	(0.002)	1337928	2500.00	1782	48.12- 72.18	60.15
Average of Peak Amounts =					1703		
35 PCB-1260 [2C]					CAS #: 11096-82-5		
9.998	9.996	(0.002)	6143302	2500.00	1786	80.00- 120.00	100.00
8.871	8.871	(0.000)	3419516	2500.00	1937	44.53- 66.80	55.66
9.068	9.066	(0.002)	3196555	2500.00	1574	41.63- 62.44	52.03
9.293	9.291	(0.002)	3606881	2500.00	1822	46.97- 70.45	58.71
9.346	9.345	(0.001)	2837882			36.96- 55.43	46.19
9.681	9.680	(0.001)	*2661873	2500.00	1618	34.66- 52.00	43.33
10.451	10.451	(0.000)	4367905			56.88- 85.32	71.10
11.105	11.103	(0.002)	1342587			17.48- 26.23	21.85
Average of Peak Amounts =					1747		

09/15/11

Data File: \\BC\TARGET\chem\ecd3,i\090111,b\025R2501,D
Date : 01-SEP-2011 14:10
Client ID:
Sample Info: SEQ-CALK
Column phase: ZB MR-2

Instrument: ecd3,i
Operator: EM
Column diameter: 0.32



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SW-846 METHODS 8081A/8082

Data file : \\BC\TARGET\chem\ecd3.i\090111.b\026R2601.D
Lab Smp Id: SEQ-CALL
Inj Date : 01-SEP-2011 14:28
Operator : EM
Inst ID: ecd3.i
Smp Info : SEQ-CALLE
Misc Info : ;;;;;;AR1660D.sub
Comment :
Method : \\BC\TARGET\chem\ecd3.i\090111.b\8081_82R.m
Meth Date : 05-Sep-2011 23:12 jeh
Quant Type: ESTD
Cal Date : 01-SEP-2011 14:28
Cal File: 026R2601.D
Als bottle: 26
Calibration Sample, Level: 2
Dil Factor: 1.00000
Integrator: Falcon
Compound Sublist: ar1660.sub
Target Version: 4.04
Sample Matrix: None
Processing Host: NSH-LAPTOP1

RT	EXP RT	DLT RT	RESPONSE	AMOUNTS CAL-AMT (ng/mL)	ON-COL (ng/mL)	TARGET RANGE	RATIO
29 PCB-1016 [2C]					CAS #: 12674-11-2		
6.815	6.815	(0.000)	983591	1000.00	675.0	80.00- 120.00	100.00
5.966	5.966	(0.000)	352335			28.66- 42.99	35.82
6.533	6.533	(0.000)	541603	1000.00	634.1	44.05- 66.08	55.06
6.793	6.793	(0.000)	769929	1000.00	845.7	62.62- 93.93	78.28
7.026	7.026	(0.000)	543243	1000.00	712.6	44.18- 66.28	55.23
7.126	7.126	(0.000)	562157	1000.00	748.7	45.72- 68.58	57.15
		Average of Peak Amounts =			723.2		
35 PCB-1260 [2C]					CAS #: 11096-82-5		
9.996	9.996	(0.000)	2582683	1000.00	750.8	80.00- 120.00	100.00
8.871	8.871	(0.000)	1454311	1000.00	823.8	45.05- 67.57	56.31
9.066	9.066	(0.000)	1348227	1000.00	663.8	41.76- 62.64	52.20
9.291	9.291	(0.000)	*1519800	1000.00	767.9	47.08- 70.61	58.85
9.345	9.345	(0.000)	1196576			37.06- 55.60	46.33
9.680	9.680	(0.000)	1121531	1000.00	681.6	34.74- 52.11	43.43
10.451	10.451	(0.000)	1821297			56.42- 84.62	70.52
11.103	11.103	(0.000)	547187			16.95- 25.42	21.19
		Average of Peak Amounts =			737.6		

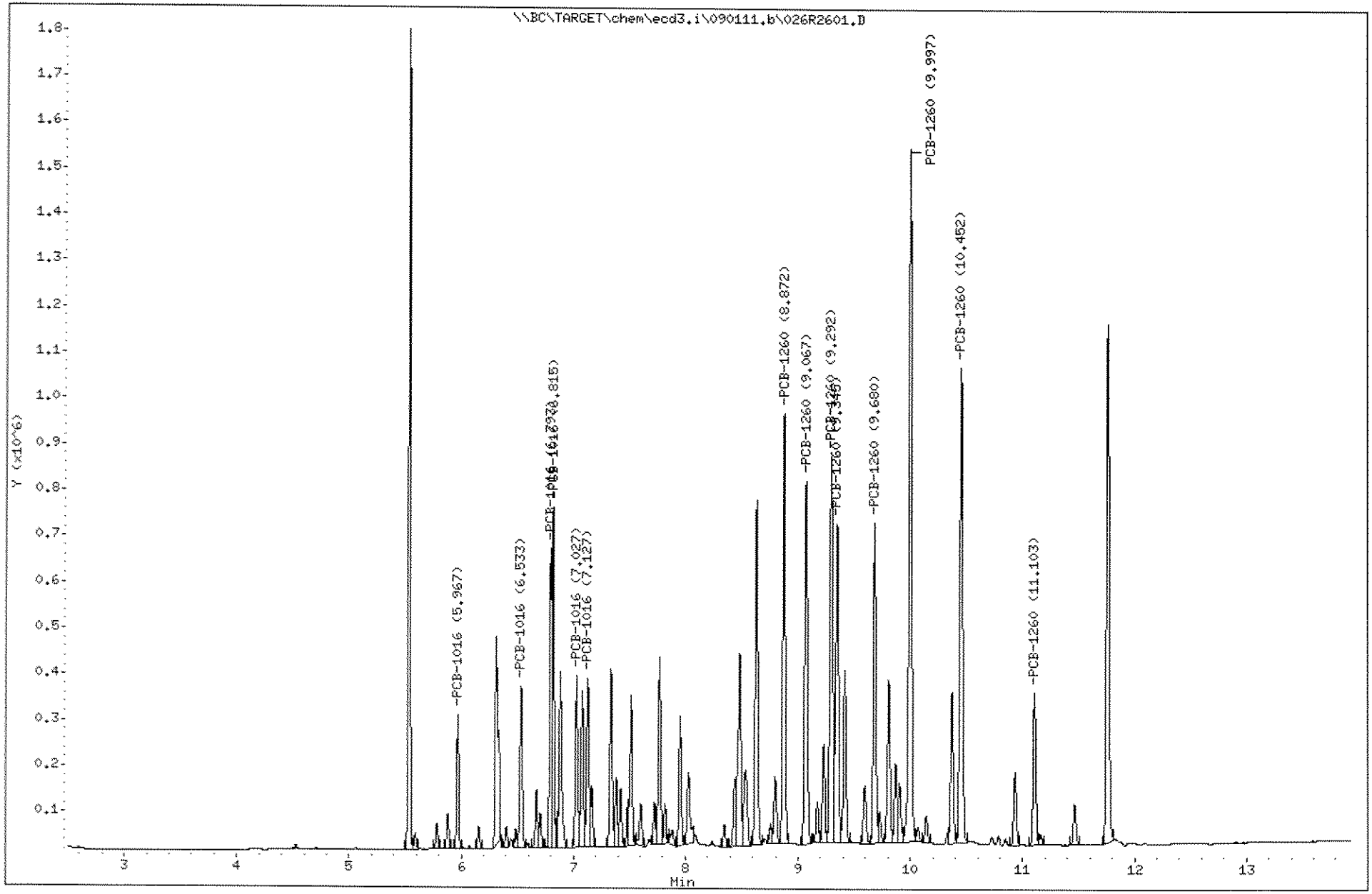
09/15/11

Data File: \\BC\TARGET\chem\ecd3.i\090111.b\026R2601.D
Date : 01-SEP-2011 14:28
Client ID:
Sample Info: SEQ-CALL

Column phase: ZB MR-2

Instrument: ecd3.i

Operator: EM
Column diameter: 0.32



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SW-846 METHODS 8081A/8082

Data file : \\BC\TARGET\chem\ecd3.i\090111.b\027R2701.D
Lab Smp Id: SEQ-CALM
Inj Date : 01-SEP-2011 14:47
Operator : EM Inst ID: ecd3.i
Smp Info : SEQ-CALMF
Misc Info : ;;;;;;AR1660D.sub
Comment :
Method : \\BC\TARGET\chem\ecd3.i\090111.b\8081_82R.m
Meth Date : 05-Sep-2011 23:12 jeh Quant Type: ESTD
Cal Date : 10-AUG-2011 20:12 Cal File: 004R0301.D
Als bottle: 27 Calibration Sample, Level: 3
Dil Factor: 1.00000
Integrator: Falcon Compound Sublist: ar1660.sub
Target Version: 4.04 Sample Matrix: None
Processing Host: NSH-LAPTOP1

RT	EXP RT	DLT RT	RESPONSE	AMOUNTS CAL-AMT (ng/mL)	AMOUNTS ON-COL (ng/mL)	TARGET RANGE	RATIO
29 PCB-1016 [2C]					CAS #: 12674-11-2		
6.816	6.815	(0.001)	780246	750.000	568.0	80.00- 120.00	100.00
5.968	5.966	(0.002)	275519			28.25- 42.37	35.31
6.533	6.533	(0.000)	421058	750.000	529.3	43.17- 64.76	53.96
6.795	6.793	(0.002)	593686	750.000	663.4	60.87- 91.31	76.09
7.025	7.026	(-0.001)	423345	750.000	586.7	43.41- 65.11	54.26
7.128	7.126	(0.002)	437848	750.000	608.5	44.89- 67.34	56.12
		Average of Peak Amounts =			591.2		
35 PCB-1260 [2C]					CAS #: 11096-82-5		
9.996	9.996	(0.000)	1979468	750.000	602.9	80.00- 120.00	100.00
8.871	8.871	(0.000)	1127596	750.000	652.9	45.57- 68.36	56.96
9.066	9.066	(0.000)	*1044844	750.000	549.1	42.23- 63.34	52.78
9.293	9.291	(0.002)	1173772	750.000	615.5	47.44- 71.16	59.30
9.345	9.345	(0.000)	918741			37.13- 55.70	46.41
9.680	9.680	(0.000)	861881	750.000	560.1	34.83- 52.25	43.54
10.451	10.451	(0.000)	1391419			56.23- 84.35	70.29
11.105	11.103	(0.002)	406137			16.41- 24.62	20.52
		Average of Peak Amounts =			596.1		

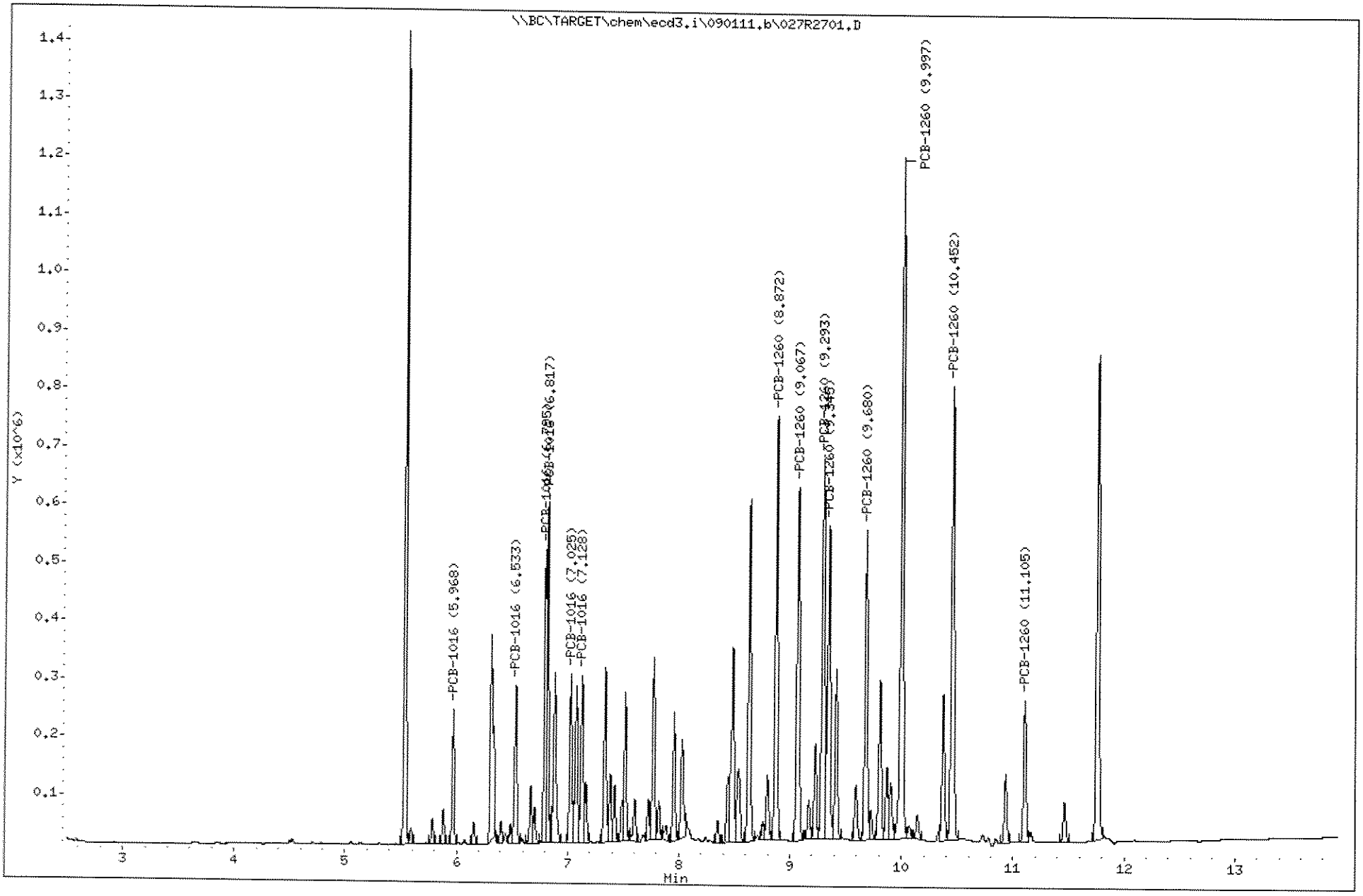
09/15/11

Data File: \\BC\TARGET\chem\ecd3.i\090111.b\027R2701.D
Date : 01-SEP-2011 14:47
Client ID:
Sample Info: SEQ-CALM

Column phase: ZB MR-2

Instrument: ecd3.i

Operator: EM
Column diameter: 0.32



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SW-846 METHODS 8081A/8082

Data file : \\BC\TARGET\chem\ecd3.i\090111.b\028R2801.D
Lab Smp Id: SEQ-CALN
Inj Date : 01-SEP-2011 15:06
Operator : EM Inst ID: ecd3.i
Smp Info : SEQ-CALNG
Misc Info : ;;;;;;AR1660D.sub
Comment :
Method : \\BC\TARGET\chem\ecd3.i\090111.b\8081_82R.m
Meth Date : 05-Sep-2011 23:12 jeh Quant Type: ESTD
Cal Date : 10-AUG-2011 20:30 Cal File: 005R0401.D
Als bottle: 28 Calibration Sample, Level: 4
Dil Factor: 1.00000
Integrator: Falcon Compound Sublist: ar1660.sub
Target Version: 4.04 Sample Matrix: None
Processing Host: NSH-LAPTOP1

RT	EXP RT	DLT RT	RESPONSE	AMOUNTS CAL-AMT (ng/mL)	ON-COL (ng/mL)	TARGET RANGE	RATIO
29 PCB-1016 [2C]					CAS #: 12674-11-2		
6.816	6.815	(0.001)	461314	500.000	368.5	80.00- 120.00	100.00
5.967	5.966	(0.001)	174009			30.18- 45.26	37.72
6.532	6.533	(-0.001)	259683	500.000	360.0	45.03- 67.55	56.29
6.794	6.793	(0.001)	387311	500.000 X	448.4	67.17- 100.75	83.96
7.026	7.026	(0.000)	259669	500.000	389.8	45.03- 67.55	56.29
7.127	7.126	(0.001)	270775	500.000	401.8	46.96- 70.44	58.70
		Average of Peak Amounts =			393.7		
35 PCB-1260 [2C]					CAS #: 11096-82-5		
9.997	9.996	(0.001)	1145985	500.000	380.1	80.00- 120.00	100.00
8.871	8.871	(0.000)	* 667518	500.000	408.9	46.60- 69.90	58.25
9.067	9.066	(0.001)	615242	500.000	359.3	42.95- 64.42	53.69
9.292	9.291	(0.001)	681891	500.000	384.3	47.60- 71.40	59.50
9.344	9.345	(-0.001)	541709			37.82- 56.72	47.27
9.679	9.680	(-0.001)	502486	500.000	361.8	35.08- 52.62	43.85
10.451	10.451	(0.000)	797751			55.69- 83.54	69.61
11.104	11.103	(0.001)	226974			15.84- 23.77	19.81
		Average of Peak Amounts =			378.9		

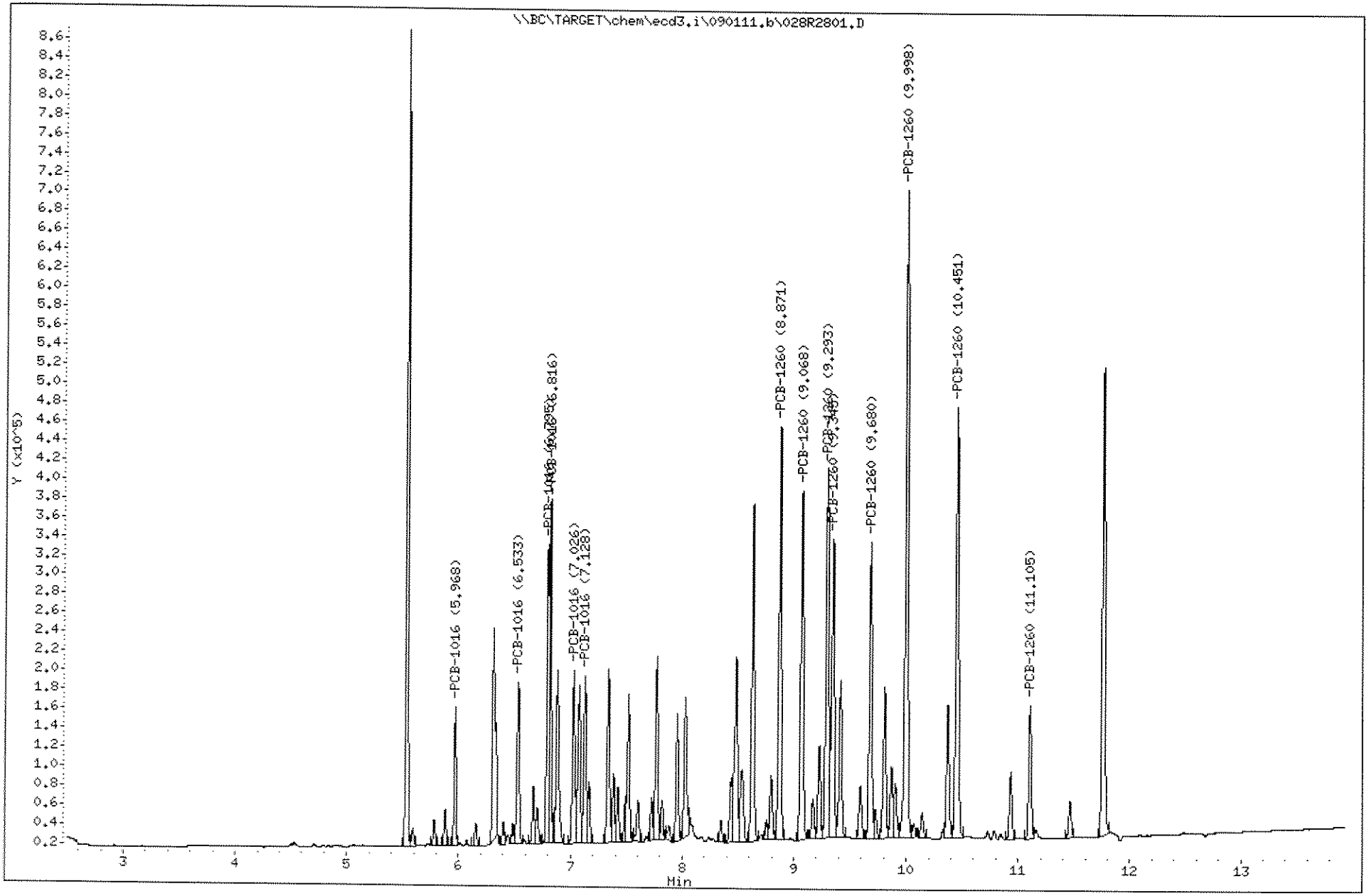
09/15/11

Data File: \\BC\TARGET\chem\ecd3.i\090111.b\028R2801.D
Date : 01-SEP-2011 15:06
Client ID:
Sample Info: SEQ-CALN

Column phase: ZB MR-2

Instrument: ecd3.i

Operator: EM
Column diameter: 0.32



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SW-846 METHODS 8081A/8082

Data file : \\BC\TARGET\chem\ecd3.i\090111.b\029R2901.D
Lab Smp Id: SEQ-CALO
Inj Date : 01-SEP-2011 15:25
Operator : EM Inst ID: ecd3.i
Smp Info : SEQ-CALØH
Misc Info : ;;;;;;AR1660D.sub
Comment :
Method : \\BC\TARGET\chem\ecd3.i\090111.b\8081_82R.m
Meth Date : 05-Sep-2011 23:13 jeh Quant Type: ESTD
Cal Date : 10-AUG-2011 20:49 Cal File: 006R0501.D
Als bottle: 29 Calibration Sample, Level: 5
Dil Factor: 1.00000
Integrator: Falcon Compound Sublist: ar1660.sub
Target Version: 4.04 Sample Matrix: None
Processing Host: NSH-LAPTOP1

RT	EXP RT	DLT RT	RESPONSE	AMOUNTS CAL-AMT (ng/mL)	ON-COL (ng/mL)	TARGET RANGE	RATIO
29 PCB-1016 [2C]					CAS #: 12674-11-2		
6.815	6.815	(0.000)	120540	100.000	104.9	80.00- 120.00	100.00
5.967	5.966	(0.001)	45172			29.98- 44.97	37.47
6.534	6.533	(0.001)	64195	100.000	100.7	42.60- 63.91	53.26
6.794	6.793	(0.001)	94239	100.000	111.8	62.54- 93.82	78.18
7.025	7.026	(-0.001)	63310	100.000	103.1	42.02- 63.03	52.52
7.127	7.126	(0.001)	68047	100.000	107.4	45.16- 67.74	56.45
		Average of Peak Amounts =			105.6		
35 PCB-1260 [2C]					CAS #: 11096-82-5		
9.997	9.996	(0.001)	* 284911	100.000	101.5	80.00- 120.00	100.00
8.870	8.871	(-0.001)	171594	100.000	109.8	48.18- 72.27	60.23
9.067	9.066	(0.001)	157402	100.000	101.9	44.20- 66.30	55.25
9.292	9.291	(0.001)	172728	100.000	102.9	48.50- 72.75	60.63
9.344	9.345	(-0.001)	134528			37.77- 56.66	47.22
9.679	9.680	(-0.001)	126856	100.000	100.6	35.62- 53.43	44.52
10.450	10.451	(-0.001)	199014			55.88- 83.82	69.85
11.104	11.103	(0.001)	47101			13.23- 19.84	16.53
		Average of Peak Amounts =			103.4		

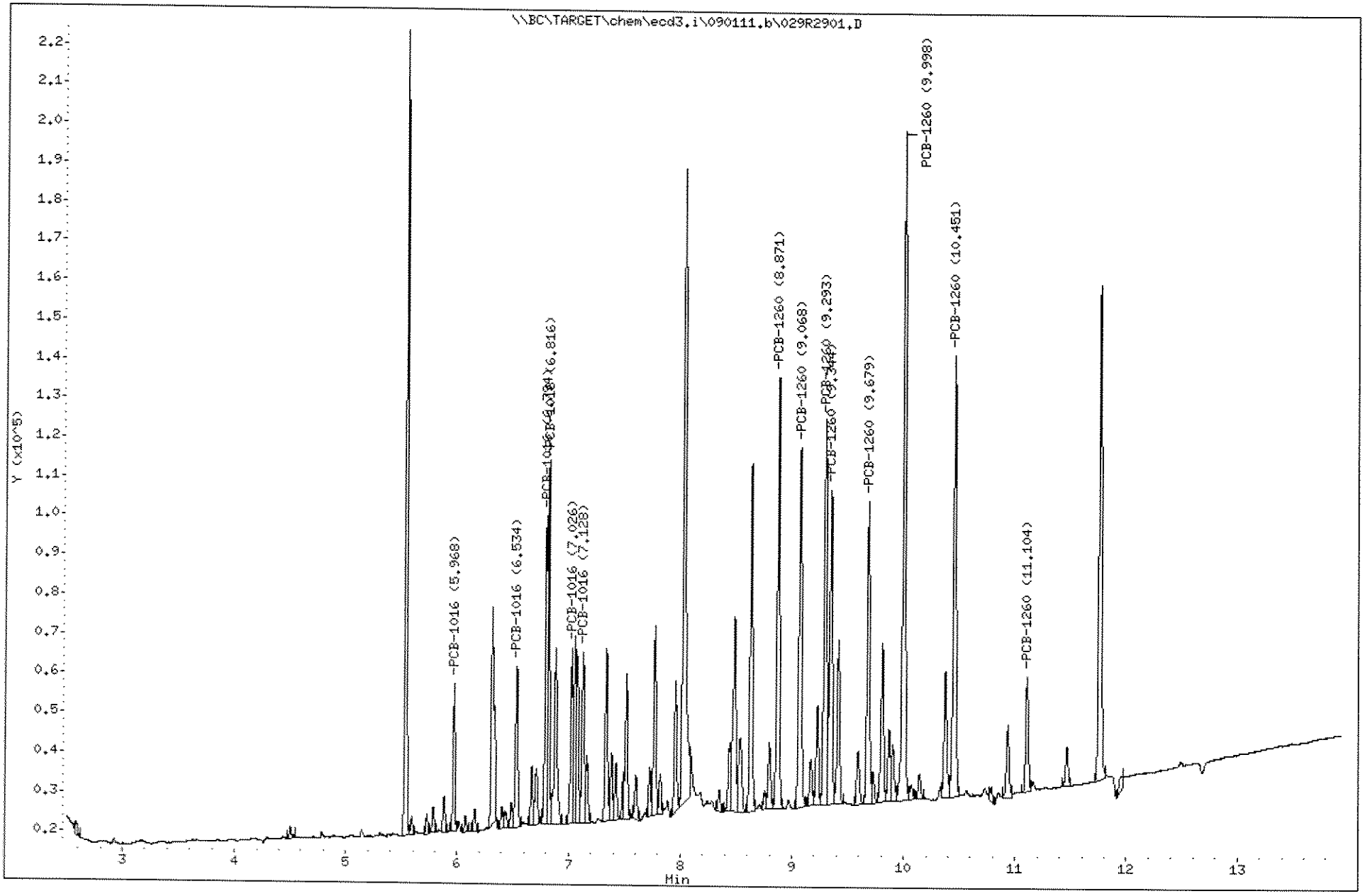
09/15/11

Data File: \\BC\TARGET\chem\ecd3.i\090111.b\029R2901.D
Date : 01-SEP-2011 15:25
Client ID:
Sample Info: SEQ-CALO

Column phase: ZB MR-2

Instrument: ecd3.i

Operator: EM
Column diameter: 0.32



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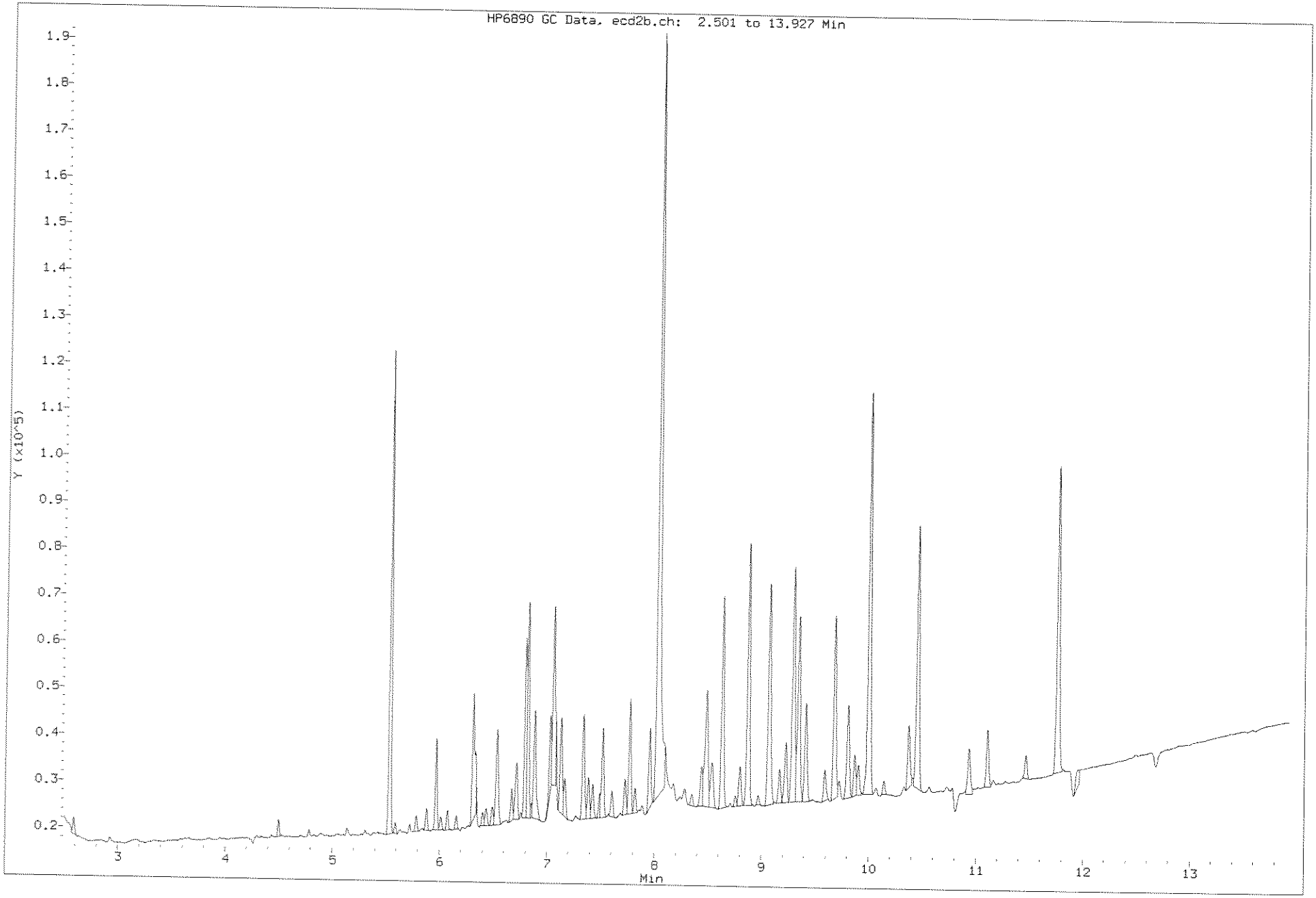
SW-846 METHODS 8081A/8082

Data file : \\BC\TARGET\chem\ecd3.i\090111.b\030R3001.D
Lab Smp Id: SEQ-CALP
Inj Date : 01-SEP-2011 15:43
Operator : EM
Inst ID: ecd3.i
Smp Info : SEQ-CALPT
Misc Info : ;;;;;;AR1660D.sub
Comment :
Method : \\BC\TARGET\chem\ecd3.i\090111.b\8081_82R.m
Meth Date : 05-Sep-2011 23:13 jeh
Quant Type: ESTD
Cal Date : 10-AUG-2011 21:08
Cal File: 007R0601.D
Als bottle: 30
Calibration Sample, Level: 6
Dil Factor: 1.00000
Integrator: Falcon
Compound Sublist: ar1660.sub
Target Version: 4.04
Sample Matrix: None
Processing Host: NSH-LAPTOP1

RT	EXP RT	DLT RT	RESPONSE	AMOUNTS CAL-AMT (ng/mL)	ON-COL (ng/mL)	TARGET RANGE	RATIO
**	======	========	========	=======	=======	==========	=====
29 PCB-1016 [2C]					CAS #: 12674-11-2		
6.815	6.815	(0.000)	61813	50.0000	59.08	80.00- 120.00	100.00
5.967	5.966	(0.001)	23381			30.26- 45.39	37.83
6.534	6.533	(0.001)	33389	50.0000	58.20	43.21- 64.82	54.02
6.794	6.793	(0.001)	46594	50.0000	56.38	60.30- 90.45	75.38
7.025	7.026	(-0.001)	30922	50.0000	54.81	40.02- 60.03	50.03
7.127	7.126	(0.001)	* 35579	50.0000	59.06	46.05- 69.07	57.56
		Average of Peak Amounts =			57.51		
35 PCB-1260 [2C]					CAS #: 11096-82-5		
9.997	9.996	(0.001)	142206	50.0000	54.47	80.00- 120.00	100.00
8.870	8.871	(-0.001)	87566	50.0000	57.56	49.26- 73.89	61.58
9.067	9.066	(0.001)	82975	50.0000	58.68	46.68- 70.02	58.35
9.292	9.291	(0.001)	88573	50.0000	56.60	49.83- 74.74	62.28
9.344	9.345	(-0.001)	69467			39.08- 58.62	48.85
9.679	9.680	(-0.001)	64338	50.0000	55.98	36.19- 54.29	45.24
10.449	10.451	(-0.002)	95888			53.94- 80.91	67.43
11.104	11.103	(0.001)	19252			10.83- 16.25	13.54
		Average of Peak Amounts =			56.66		

09/15/11

Data File: \\BC\TARGET\chem\ecd3.i\090111.b\030R3001.D
Injection Date: 01-SEP-2011 15:43
Instrument: ecd3.i
Client Sample ID:



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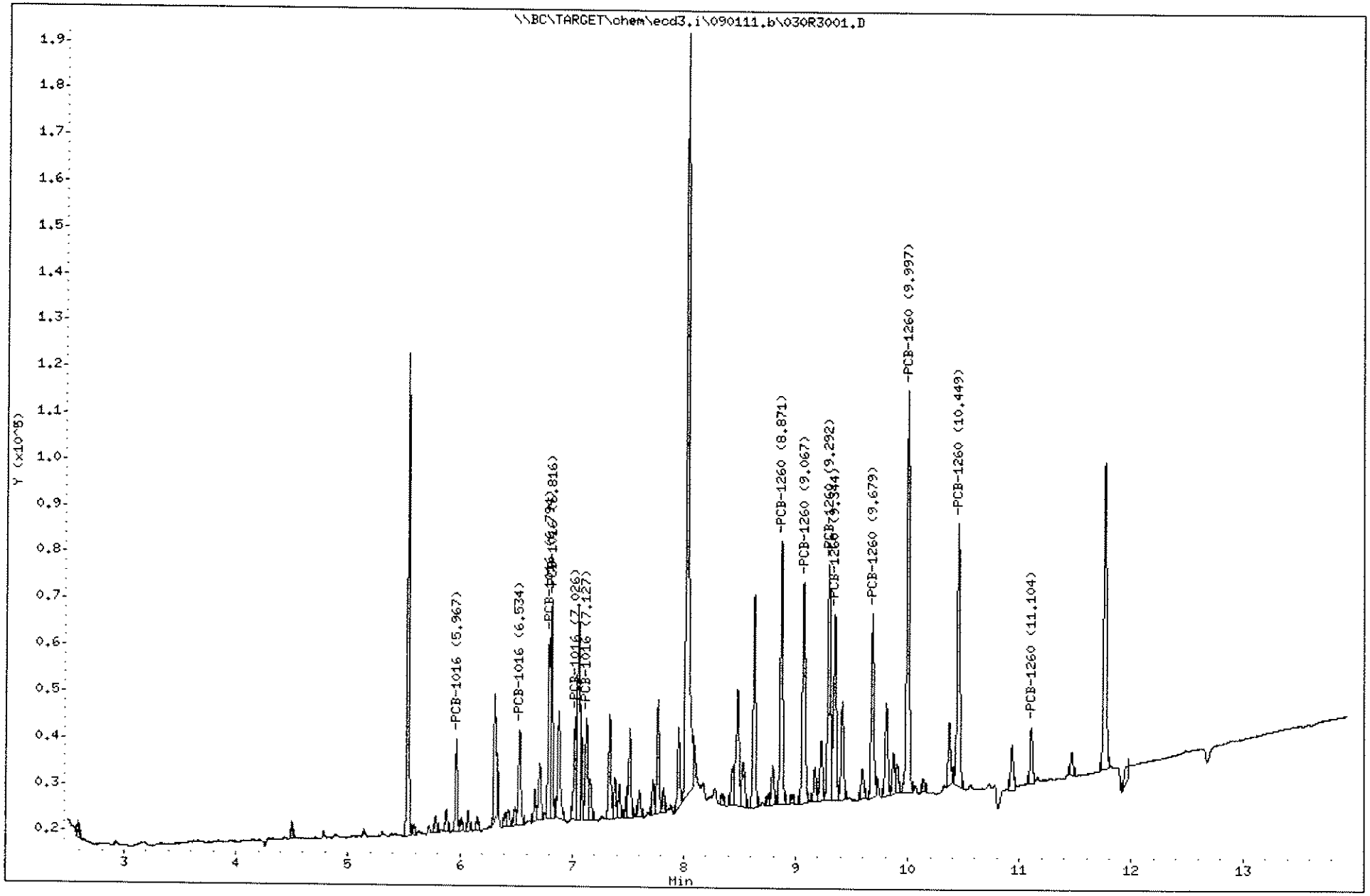
Data File: \\BC\TARGET\chem\ecd3.i\090111.b\030R3001.D
Date : 01-SEP-2011 15:43
Client ID:
Sample Info: SEQ-CALP

Column phase: ZB MR-2

Instrument: ecd3.i

Operator: EM
Column diameter: 0.32

09/15/11



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SW-846 METHODS 8081A/8082

Data file : \\BC\TARGET\chem\ecd3.i\090111.b\031R3101.D
Lab Smp Id: SEQ-ICV4
Inj Date : 01-SEP-2011 16:02
Operator : EM Inst ID: ecd3.i
Smp Info : SEQ-ICV~~4~~3
Misc Info : ;;;;;;AR1660D.sub
Comment :
Method : \\BC\TARGET\chem\ecd3.i\090111.b\8081_82R.m
Meth Date : 05-Sep-2011 23:13 jeh Quant Type: ESTD
Cal Date : 10-AUG-2011 21:08 Cal File: 007R0601.D
Als bottle: 31 Continuing Calibration Sample
Dil Factor: 1.00000
Integrator: Falcon Compound Sublist: ar1660.sub
Target Version: 4.04 Sample Matrix: None
Processing Host: NSH-LAPTOP1

RT	EXP RT	DLT RT	RESPONSE	AMOUNTS CAL-AMT (ng/mL)	ON-COL (ng/mL)	TARGET RANGE	RATIO
29 PCB-1016 [2C]					CAS #: 12674-11-2		
6.815	6.815	(0.000)	1003664	1000.00	959.2	80.00- 120.00	100.00
5.967	5.966	(0.001)	347153			27.67- 41.51	34.59
6.532	6.533	(-0.001)	565050	1000.00	985.0	45.04- 67.56	56.30
6.793	6.793	(0.000)	799501	1000.00	967.4	63.73- 95.59	79.66
7.025	7.026	(-0.001)	* 548019	1000.00	971.4	43.68- 65.52	54.60
7.127	7.126	(0.001)	588605	1000.00	977.0	46.92- 70.37	58.65
Average of Peak Amounts =					972		
35 PCB-1260 [2C]					CAS #: 11096-82-5		
9.997	9.996	(0.001)	2403189	1000.00	920.5	80.00- 120.00	100.00
8.870	8.871	(-0.001)	1483404	1000.00	975.1	49.38- 74.07	61.73
9.067	9.066	(0.001)	1382885	1000.00	978.0	46.03- 69.05	57.54
9.292	9.291	(0.001)	1681222	1000.00	1074	55.97- 83.95	69.96
9.345	9.345	(0.000)	1072421			35.70- 53.55	44.62
9.680	9.680	(0.000)	1015647	1000.00 X	883.7	33.81- 50.71	42.26
10.450	10.451	(-0.001)	1705014			56.76- 85.14	70.95
11.103	11.103	(0.000)	486749			16.20- 24.31	20.25
Average of Peak Amounts =					966.3		

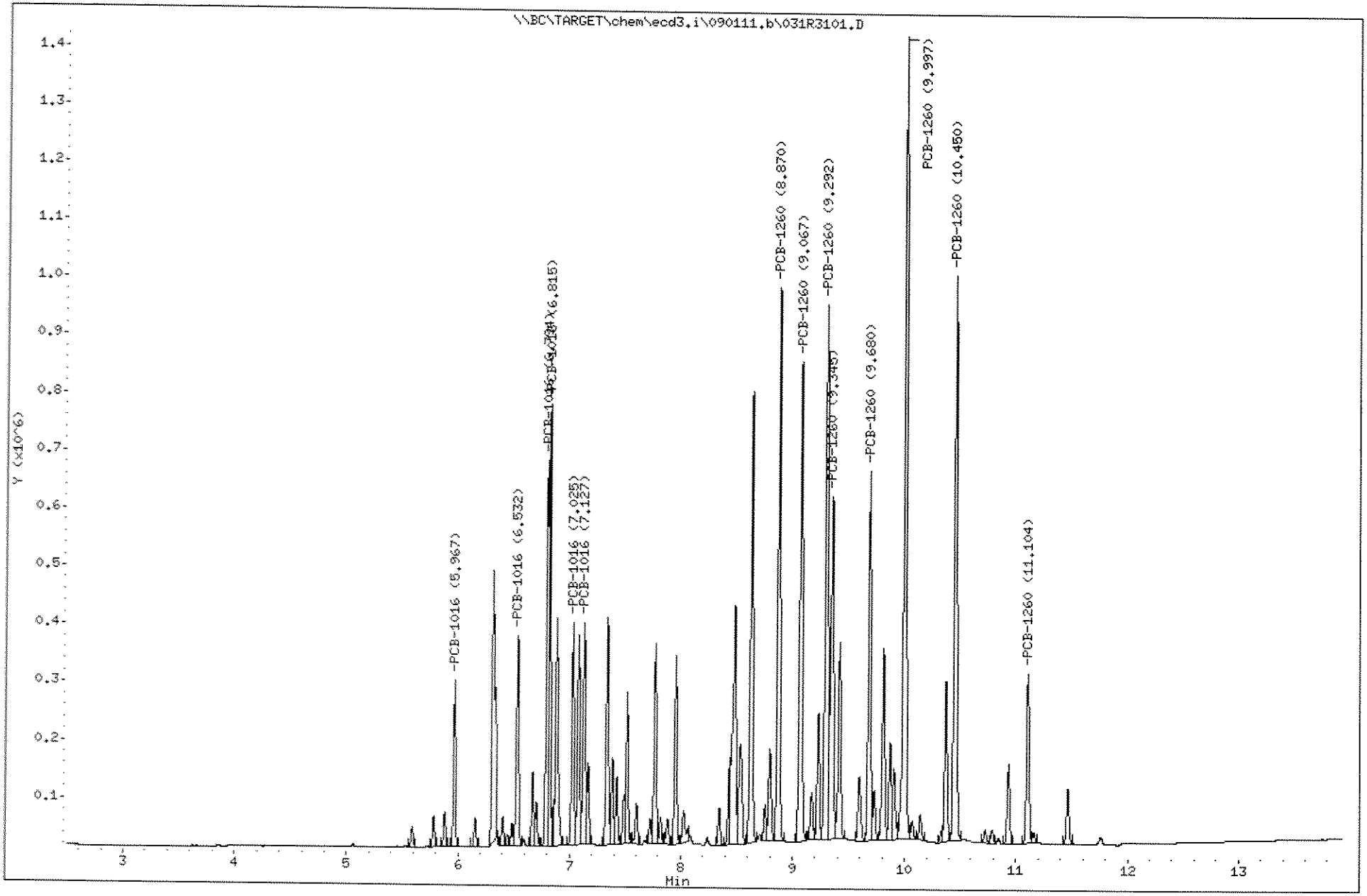
09/15/11

Data File: \\BC\TARGET\chem\ecd3.i\090111.b\031R3101.D
Date : 01-SEP-2011 16:02
Client ID:
Sample Info: SEQ-ICV4

Column phase: ZB MR-2

Instrument: ecd3.i

Operator: EM
Column diameter: 0.32



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Sequence: C:\HPCHEM\ECD3\SEQUENCE\092811.S \ECD.3\HP.C/F\8081_82

PG. 389

CM 260 9.30.11

Sequence Table (Front/Injector): /BACK

Quantification Part:

Line	Location	SampleName	SampleAmount	ISTDAmt	Multiplier	Dilution
1	Vial 1	Pest Primer				
2	Vial 2	SEQ-PEM1	ID# 11I 0420			
3	Vial 3	SEQ-CAL7	ID# 11H0802 (AB CAL7)			
4	Vial 4	SEQ-CAL6	11H0801 (AB CAL6)			
5	Vial 5	SEQ-CAL5	11H0800 (AB CAL5)			
6	Vial 6	SEQ-CAL4	11H0799 (AB CAL4)			
7	Vial 7	SEQ-CAL3	11H0798 (AB CAL3)			
8	Vial 8	SEQ-CAL2	11H0818 (AB CAL2)			
9	Vial 9	SEQ-CAL1	11H0796 (AB CAL1)			
10	Vial 10	SEQ-ICV1	11H0363 (AB ICV)			
11	Vial 11	SEQ-CCV1	11I0419 (AB CCV)			
12	Vial 12	SEQ-CCV2	11I0754 (Chlor CCV)			
13	Vial 13	SEQ-CCV3	11I0795 (Tox CCV)			
14	Vial 14	SEQ-CCV4	11I0557 (1660 CCV)			
15	Vial 15	1I09010-BLK1;Cu				
16	Vial 16	1I09010-BS1;Cu				
17	Vial 17	1I09010-BS2;Cu				
18	Vial 18	1I12004-BLK1;Cu				
19	Vial 19	1I12004-BS1;Cu				
20	Vial 20	1I12004-BS2;Cu				
21	Vial 21	1I19023-BLK1				
22	Vial 22	1I19023-BS1				
23	Vial 23	1I19023-BSD1				
24	Vial 24	1I19023-BS2				
25	Vial 25	1I19023-BSD2				
26	Vial 26	1I23012-BLK1				
27	Vial 27	1I23012-BS1				
28	Vial 28	1I23014-BLK1				
29	Vial 29	1I23014-BS1				
30	Vial 30	1I23014-BSD1				
31	Vial 31	1I12005-BLK1;Cu				
32	Vial 32	1I12005-BS1;Cu				
33	Vial 33	1I12005-BS2;Cu				
34	Vial 34	1I2006-BLK1;Cu				
35	Vial 35	1I2006-BS1;Cu				
36	Vial 36	1I2006-BS2;Cu				
37	Vial 37	SEQ-CCV5 (AB)				
38	Vial 38	SEQ-CCV6 (Chlor)				
39	Vial 39	SEQ-CCV7 (Tox)				
40	Vial 40	SEQ-CCV8 (1660)				
41	Vial 41	SEQ-PEM2				
42	Vial 42	1I21003-BLK1				
43	Vial 43	1I21003-BS1				
44	Vial 44	1I21003-BS2				
45	Vial 45	1I21003-BS3				
46	Vial 46	1I22024-BLK1;Cu				
47	Vial 47	1I22024-BS1;Cu				
48	Vial 48	1I22024-BS2;Cu				
49	Vial 49	1I22024-MRL1				
50	Vial 50	1I22024-MRL2				
51	Vial 51	1I22024-MRL3				
52	Vial 52	1I22024-MRL4				
53	Vial 53	1I19001-BLK1;Cu				
54	Vial 54	1I19001-BS1;Cu				
55	Vial 55	1I19001-BSD1;Cu				
56	Vial 56	1I19001-BS2;Cu				
57	Vial 57	1I19001-BSD2;Cu				
58	Vial 58	1109074-12 1x				
59	Vial 59	1109097-12				

JH. 9.29.11

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SW-846 METHODS 8081A/8082

Data file : \\BC\TARGET\chem\ecd3.i\092811.b\002F0201.D
Lab Smp Id: SEQ-PEM1
Inj Date : 28-SEP-2011 09:09
Operator : EM Inst ID: ecd3.i
Smp Info : SEQ-PEM1
Misc Info : ;;;;;;PEM.sub
Comment :
Method : \\BC\TARGET\chem\ecd3.i\092811.b\8081_82F.m
Meth Date : 29-Sep-2011 12:08 jeh Quant Type: ESTD
Cal Date : 10-AUG-2011 19:35 Cal File: 002F0101.D
Als bottle: 2
Dil Factor: 1.00000
Integrator: Falcon Compound Sublist: PEM.sub
Target Version: 4.04
Processing Host: NSH-LAPTOP1

Compounds	RT	EXP RT	DLT RT	RESPONSE	CONCENTRATIONS ON-COLUMN (ng/mL)	CONCENTRATIONS FINAL (ng/mL)
3 Alpha-BHC	6.244	6.247	-0.003	90811	1.71720	1.717
23 Gamma-BHC	6.594	6.595	-0.001	85575	1.75494	1.755
5 Beta-BHC	6.793	6.793	0.000	41329	1.93194	1.932
20 Endrin	9.199	9.200	-0.001	296607	8.81843	8.818
22 Endrin Ketone	10.551	10.552	-0.001	21641	0.51992	0.5199
14 4,4'-DDT	9.743	9.743	0.000	584262	17.5085	17.51
12 4,4'-DDD	9.349	9.348	0.001	25202	0.70488	0.7049
27 Methoxychlor	10.343	10.343	0.000	790287	42.5137	42.51

10/03/11

%BREAKDOWN:

$$\text{ENDRIN} = \frac{21641}{296607 + 21641} \times 100 = 6.8$$

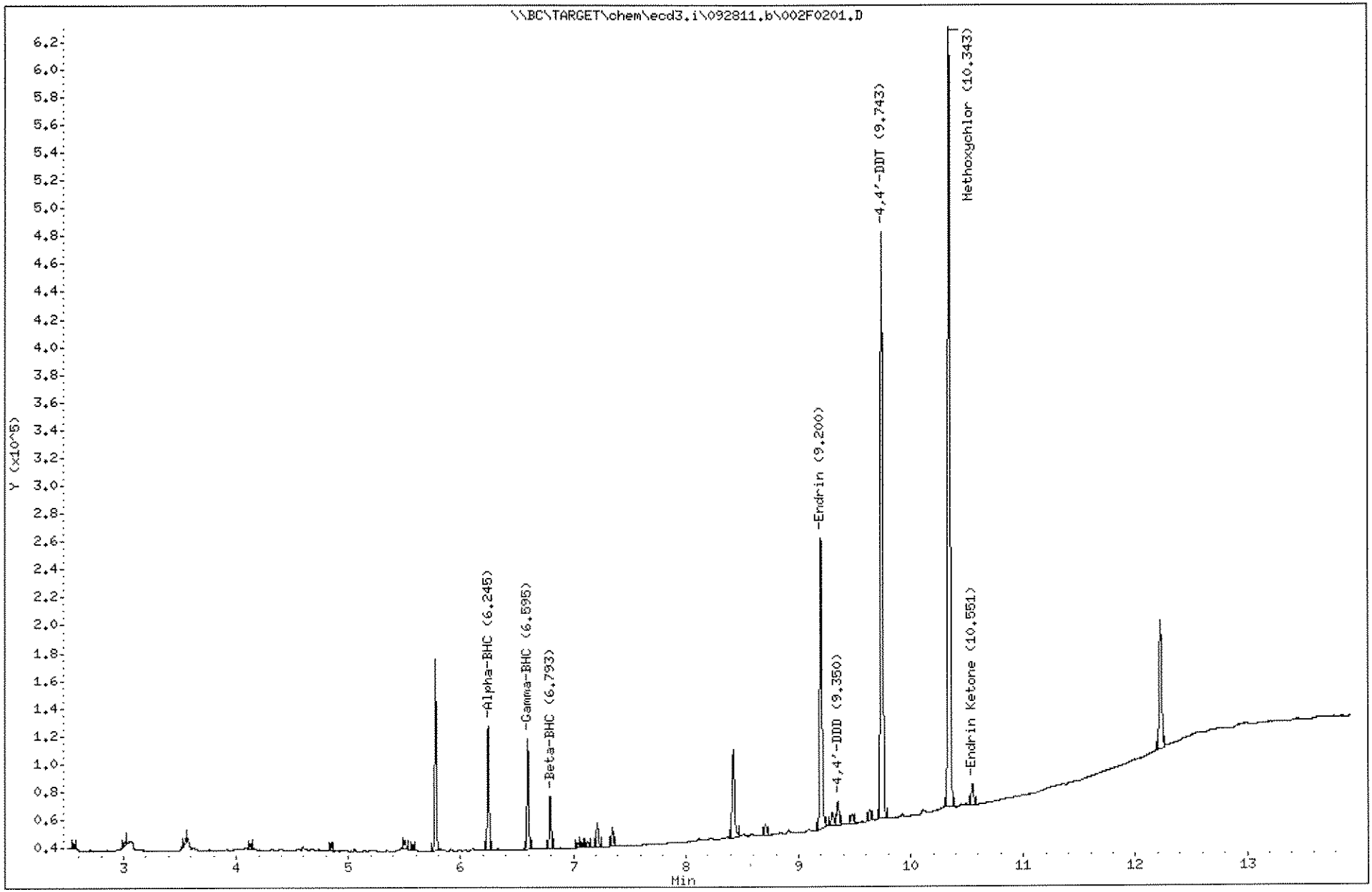
$$\text{DDT} = \frac{25202}{584262 + 25202} \times 100 = 4.1$$

Data File: \\BC\TARGET\chem\ecd3.i\092811.b\002F0201.D
Date : 28-SEP-2011 09:09
Client ID:
Sample Info: SEQ-PEM1

Column phase: ZB MR-1

Instrument: ecd3.i

Operator: EM
Column diameter: 0.32



1301

1109191

J.H. 9.29.11

Empirical Laboratories, LLC

SW-846 METHODS 8081A/8082

Data file : \\BC\TARGET\chem\ecd3.i\092811.b\002R0201.D
Lab Smp Id: SEQ-PEM1
Inj Date : 28-SEP-2011 09:09
Operator : EM Inst ID: ecd3.i
Smp Info : SEQ-PEM1
Misc Info : ;;;;;;PEM.sub
Comment :
Method : \\BC\TARGET\chem\ecd3.i\092811.b\8081_82R.m
Meth Date : 29-Sep-2011 12:17 jeh Quant Type: ESTD
Cal Date : 10-AUG-2011 19:35 Cal File: 002R0101.D
Als bottle: 2
Dil Factor: 1.00000
Integrator: Falcon Compound Sublist: PEM.sub
Target Version: 4.04
Processing Host: NSH-LAPTOP1

Compounds	RT	EXP RT	DLT RT	RESPONSE	CONCENTRATIONS ON-COLUMN (ng/mL)	FINAL (ng/mL)
3 Alpha-BHC [2C]	5.629	5.629	0.000	93119	1.89105	1.891
23 Gamma-BHC [2C]	5.967	5.968	-0.001	86885	1.94960	1.950
5 Beta-BHC [2C]	6.255	6.258	-0.003	46345	2.04610	2.046
20 Endrin [2C]	8.270	8.273	-0.003	303054	9.11325	9.113
22 Endrin Ketone [2C]	9.779	9.783	-0.004	20997	0.59078	0.5908
14 4,4'-DDT [2C]	8.724	8.726	-0.002	578755	18.1454	18.14
12 4,4'-DDD [2C]	8.410	8.413	-0.003	23094	0.67246	0.6724
27 Methoxychlor [2C]	9.440	9.441	-0.001	739269	41.8105	41.81

10/03/11

%BREAKDOWN:

ENDRIN = $\frac{20997}{303054+20997} \times 100 = 6.5\%$

DDT = $\frac{23094}{578755+23094} \times 100 = 3.8\%$

Data File: \\BC\TARGET\chem\ecd3.i\092811.b\002R0201.D

Date : 28-SEP-2011 09:09

Client ID:

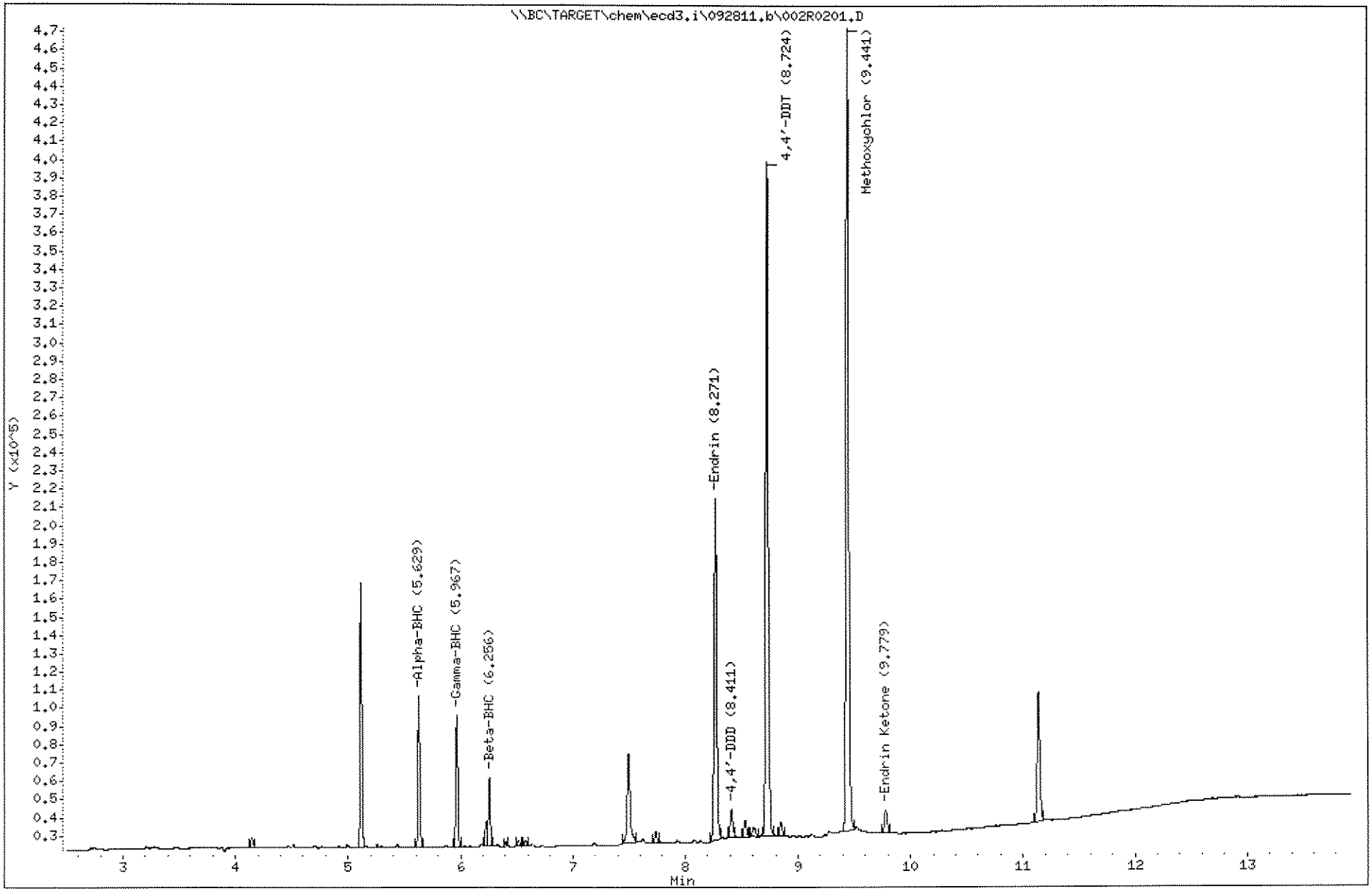
Sample Info: SEQ-PEM1

Column phase: ZB MR-2

Instrument: ecd3.i

Operator: EM

Column diameter: 0.32



1303

1109191

~~* NOT USED *~~

Data File: \\BC\TARGET\chem\ecd3.i\092811.b\003F0301.D
Report Date: 29-Sep-2011 12:26

D.H. 9.30.11

Empirical Laboratories, LLC

SW-846 METHODS 8081A/8082

Data file : \\BC\TARGET\chem\ecd3.i\092811.b\003F0301.D
Lab Smp Id: SEQ-CAL7
Inj Date : 28-SEP-2011 09:32
Operator : EM Inst ID: ecd3.i
Smp Info : SEQ-CAL7
Misc Info : ;;;;;;INDABD.sub
Comment :
Method : \\BC\TARGET\chem\ecd3.i\092811.b\8081_82F.m
Meth Date : 29-Sep-2011 12:25 jeh Quant Type: ESTD
Cal Date : 10-AUG-2011 19:35 Cal File: 002F0101.D
Als bottle: 3 Calibration Sample, Level: 7
Dil Factor: 1.00000
Integrator: Falcon Compound Sublist: indabd.sub
Target Version: 4.04
Processing Host: NSH-LAPTOP1

Compounds	RT	EXP RT	DLT RT	RESPONSE	AMOUNTS CAL-AMT (ng/mL)	AMOUNTS ON-COL (ng/mL)
$ 38 TCMX	5.779	5.778	0.001	34294	1.00000	0.9610
3 Alpha-BHC	6.247	6.247	0.000	45498 ✗	1.00000	0.8603
23 Gamma-BHC	6.597	6.595	0.002	45450	1.00000	0.9321
5 Beta-BHC	6.795	6.793	0.002	24525	1.00000	1.146
15 Delta-BHC	7.074	7.072	0.002	43760	1.00000	0.9633
25 Heptachlor	7.240	7.240	0.000	45677	1.00000	1.012
2 Aldrin	7.630	7.628	0.002	44973	1.00000	0.9414
26 Heptachlor Epoxide	8.120	8.119	0.001	49728	1.00000	1.095
24 Gamma-Chlordane	8.425	8.422	0.003	753562	1.00000	8.221 ← CONTAMINATION (NOT USED)
4 Alpha-Chlordane	8.519	8.516	0.003	61772	1.00000	1.308
17 Endosulfan I	8.585	8.583	0.002	46903	1.00000	1.115
13 4,4'-DDE	8.710	8.708	0.002	45165 *	1.00000	1.034
16 Dieldrin	8.917	8.915	0.002	43846	1.00000	0.9936
20 Endrin	9.204	9.200	0.004	32442	1.00000	0.9645
12 4,4'-DDD	9.352	9.348	0.004	37141	1.00000	1.039
18 Endosulfan II	9.475	9.472	0.003	42552	1.00000	1.126
21 Endrin Aldehyde	9.635	9.633	0.002	30507	1.00000	1.033
14 4,4'-DDT	9.745	9.743	0.002	32000	1.00000	0.9589
19 Endosulfan Sulfate	9.932	9.928	0.004	34274	1.00000	1.055
27 Methoxychlor	10.345	10.343	0.002	20746	1.00000	1.116
22 Endrin Ketone	10.554	10.552	0.002	45222	1.00000	1.086
$ 39 DCB	12.230	12.225	0.005	41675	1.00000	1.147

10/03/11

Data File: \\BC\TARGET\chem\ecd3.i\092811.b\003F0301.D

Date : 28-SEP-2011 09:32

Client ID:

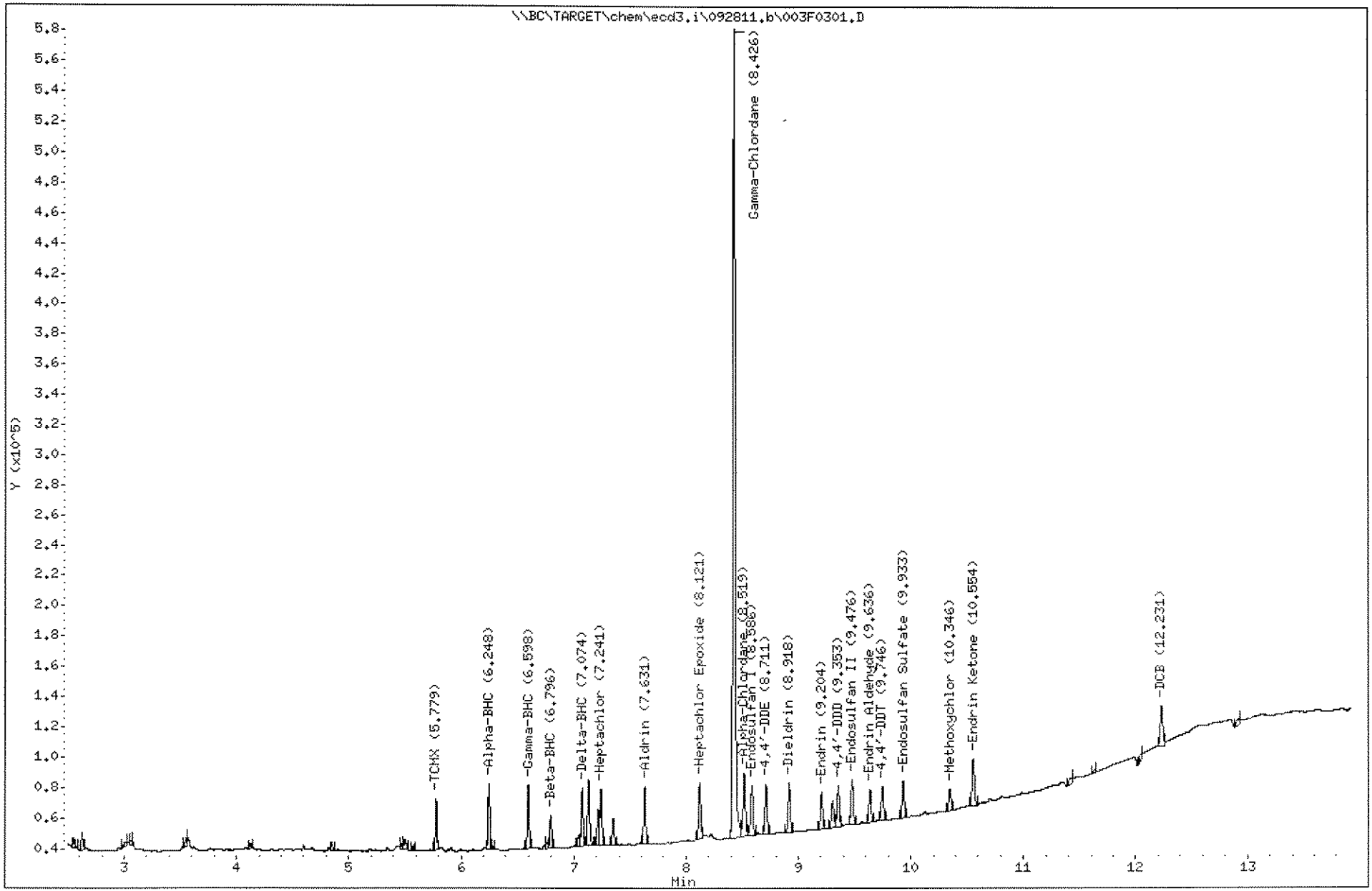
Sample Info: SEQ-CAL7

Column phase: ZB MR-1

Instrument: ecd3.i

Operator: EM

Column diameter: 0.32



1305

1109191

~~* NOT USED *~~

Data File: \\BC\TARGET\chem\ecd3.i\092811.b\004F0401.D
Report Date: 29-Sep-2011 12:26

J.H. 9.30.11

Empirical Laboratories, LLC

SW-846 METHODS 8081A/8082

Data file : \\BC\TARGET\chem\ecd3.i\092811.b\004F0401.D
Lab Smp Id: SEQ-CAL6
Inj Date : 28-SEP-2011 09:51
Operator : EM Inst ID: ecd3.i
Smp Info : SEQ-CAL6
Misc Info : ;;;;;;INDABD.sub
Comment :
Method : \\BC\TARGET\chem\ecd3.i\092811.b\8081_82F.m
Meth Date : 29-Sep-2011 12:26 jeh Quant Type: ESTD
Cal Date : 10-AUG-2011 19:35 Cal File: 002F0101.D
Als bottle: 4 Calibration Sample, Level: 6
Dil Factor: 1.00000
Integrator: Falcon Compound Sublist: indabd.sub
Target Version: 4.04
Processing Host: NSH-LAPTOP1

Compounds	RT	EXP RT	DLT RT	RESPONSE	AMOUNTS CAL-AMT (ng/mL)	AMOUNTS ON-COL (ng/mL)
$ 38 TCMX	5.777	5.778	-0.001	180736	5.00000	5.064
3 Alpha-BHC	6.245	6.247	-0.002	252598 K	5.00000	4.776
23 Gamma-BHC	6.594	6.595	-0.001	237926	5.00000	4.879
5 Beta-BHC	6.792	6.793	-0.001	107038	5.00000	5.004
15 Delta-BHC	7.070	7.072	-0.002	217644	5.00000	4.791
25 Heptachlor	7.237	7.240	-0.003	218432	5.00000	4.841
2 Aldrin	7.627	7.628	-0.001	233658	5.00000	4.891
26 Heptachlor Epoxide	8.117	8.119	-0.002	228280	5.00000	5.025
24 Gamma-Chlordane	8.420	8.422	-0.002	981260	5.00000	11.46 ← CONTAMINATION (NOT USED)
4 Alpha-Chlordane	8.515	8.516	-0.001	239257	5.00000	5.067
17 Endosulfan I	8.580	8.583	-0.003	210608	5.00000	5.006
13 4,4'-DDE	8.707	8.708	-0.001	214090	5.00000	4.902
16 Dieldrin	8.914	8.915	-0.001	215740	5.00000	4.889
20 Endrin	9.199	9.200	-0.001	163245	5.00000	4.853
12 4,4'-DDD	9.347	9.348	-0.001	173691 *	5.00000	4.858
18 Endosulfan II	9.470	9.472	-0.002	188339	5.00000	4.982
21 Endrin Aldehyde	9.632	9.633	-0.001	148680	5.00000	5.034
14 4,4'-DDT	9.742	9.743	-0.001	158372	5.00000	4.746
19 Endosulfan Sulfate	9.929	9.928	0.001	159669	5.00000	4.916
27 Methoxychlor	10.342	10.343	-0.001	93478	5.00000	5.029
22 Endrin Ketone	10.550	10.552	-0.002	209205	5.00000	5.026
$ 39 DCB	12.225	12.225	0.000	194169	5.00000	5.345

10/03/11

Data File: \\BC\TARGET\chem\ecd3.i\092811.b\004F0401.D

Date : 28-SEP-2011 09:51

Client ID:

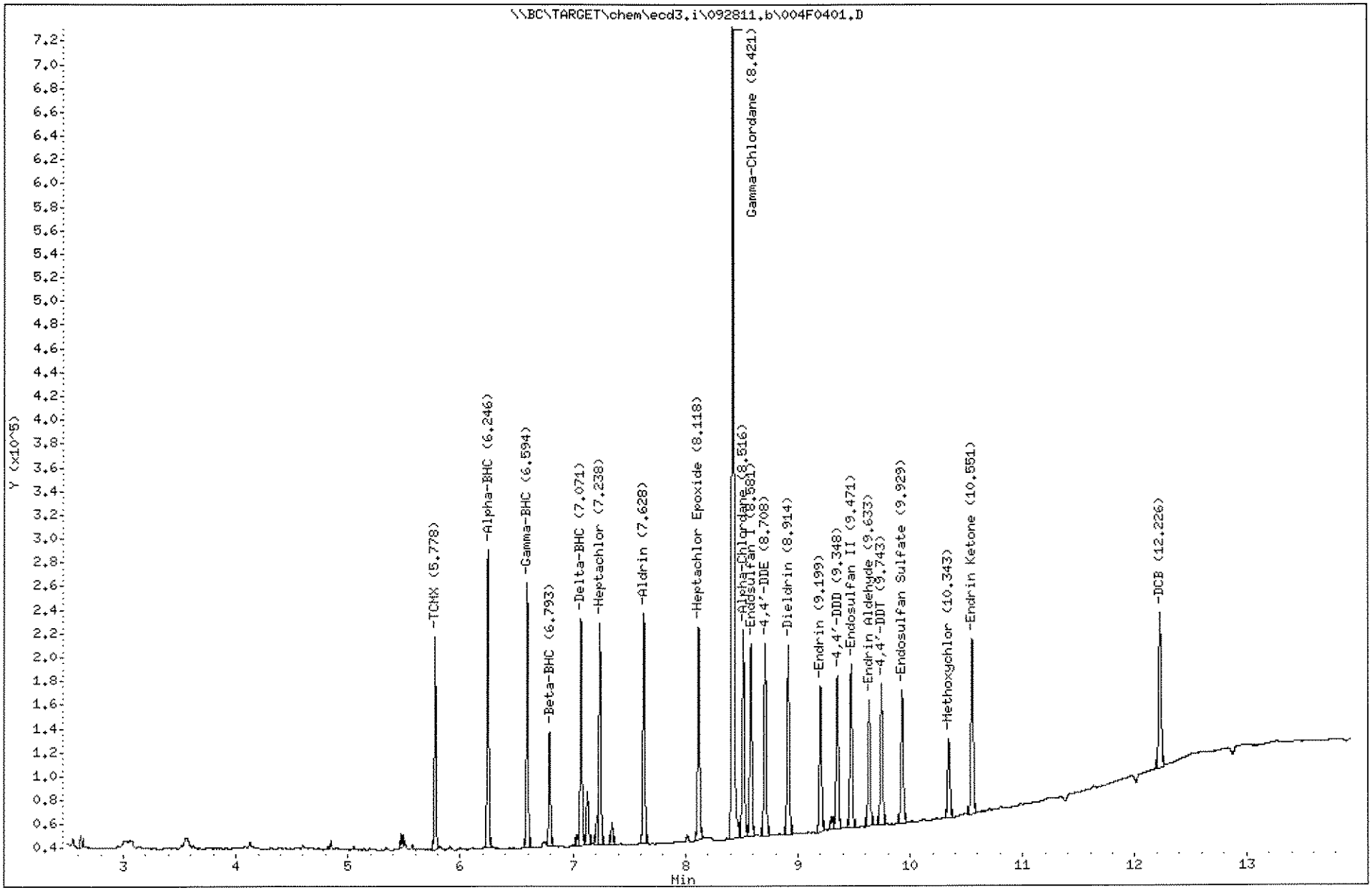
Instrument: ecd3.i

Sample Info: SEQ-CAL6

Operator: EM

Column phase: ZB MR-1

Column diameter: 0.32



1307

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J.H. 9.30.11

Empirical Laboratories, LLC

SW-846 METHODS 8081A/8082

Data file : \\BC\TARGET\chem\ecd3.i\092811.b\005F0501.D
Lab Smp Id: SEQ-CAL5
Inj Date : 28-SEP-2011 10:10
Operator : EM Inst ID: ecd3.i
Smp Info : SEQ-CAL5
Misc Info : ;;;;;;INDABD.sub
Comment :
Method : \\BC\TARGET\chem\ecd3.i\092811.b\8081_82F.m
Meth Date : 29-Sep-2011 12:26 jeh Quant Type: ESTD
Cal Date : 10-AUG-2011 19:35 Cal File: 002F0101.D
Als bottle: 5 Calibration Sample, Level: 5
Dil Factor: 1.00000
Integrator: Falcon Compound Sublist: INDABD.sub
Target Version: 4.04
Processing Host: NSH-LAPTOP1

Compounds	RT	EXP RT	DLT RT	RESPONSE		AMOUNTS CAL-AMT (ng/mL)	AMOUNTS ON-COL (ng/mL)
$ 38 TCMX	5.777	5.778	-0.001	361591		10.0000	10.13
3 Alpha-BHC	6.243	6.247	-0.004	518951	X	10.0000	9.813
23 Gamma-BHC	6.593	6.595	-0.002	479028		10.0000	9.824
5 Beta-BHC	6.792	6.793	-0.001	211945	*	10.0000	9.907
15 Delta-BHC	7.070	7.072	-0.002	437942		10.0000	9.641
25 Heptachlor	7.237	7.240	-0.003	452529		10.0000	10.03
2 Aldrin	7.627	7.628	-0.001	469872		10.0000	9.836
26 Heptachlor Epoxide	8.117	8.119	-0.002	448405		10.0000	9.870
24 Gamma-Chlordane	8.420	8.422	-0.002	1153232		10.0000	13.97
4 Alpha-Chlordane	8.513	8.516	-0.003	450817		10.0000	9.548
17 Endosulfan I	8.580	8.583	-0.003	409484		10.0000	9.733
13 4,4'-DDE	8.707	8.708	-0.001	424523		10.0000	9.719
16 Dieldrin	8.913	8.915	-0.002	430153		10.0000	9.748
20 Endrin	9.198	9.200	-0.002	330749		10.0000	9.834
12 4,4'-DDD	9.348	9.348	0.000	344826		10.0000	9.644
18 Endosulfan II	9.470	9.472	-0.002	365007		10.0000	9.655
21 Endrin Aldehyde	9.632	9.633	-0.001	289942		10.0000	9.818
14 4,4'-DDT	9.742	9.743	-0.001	315156		10.0000	9.444
19 Endosulfan Sulfate	9.927	9.928	-0.001	311351		10.0000	9.586
27 Methoxychlor	10.342	10.343	-0.001	179602		10.0000	9.662
22 Endrin Ketone	10.550	10.552	-0.002	404487		10.0000	9.718
$ 39 DCB	12.225	12.225	0.000	368275		10.0000	10.14

10/03/11

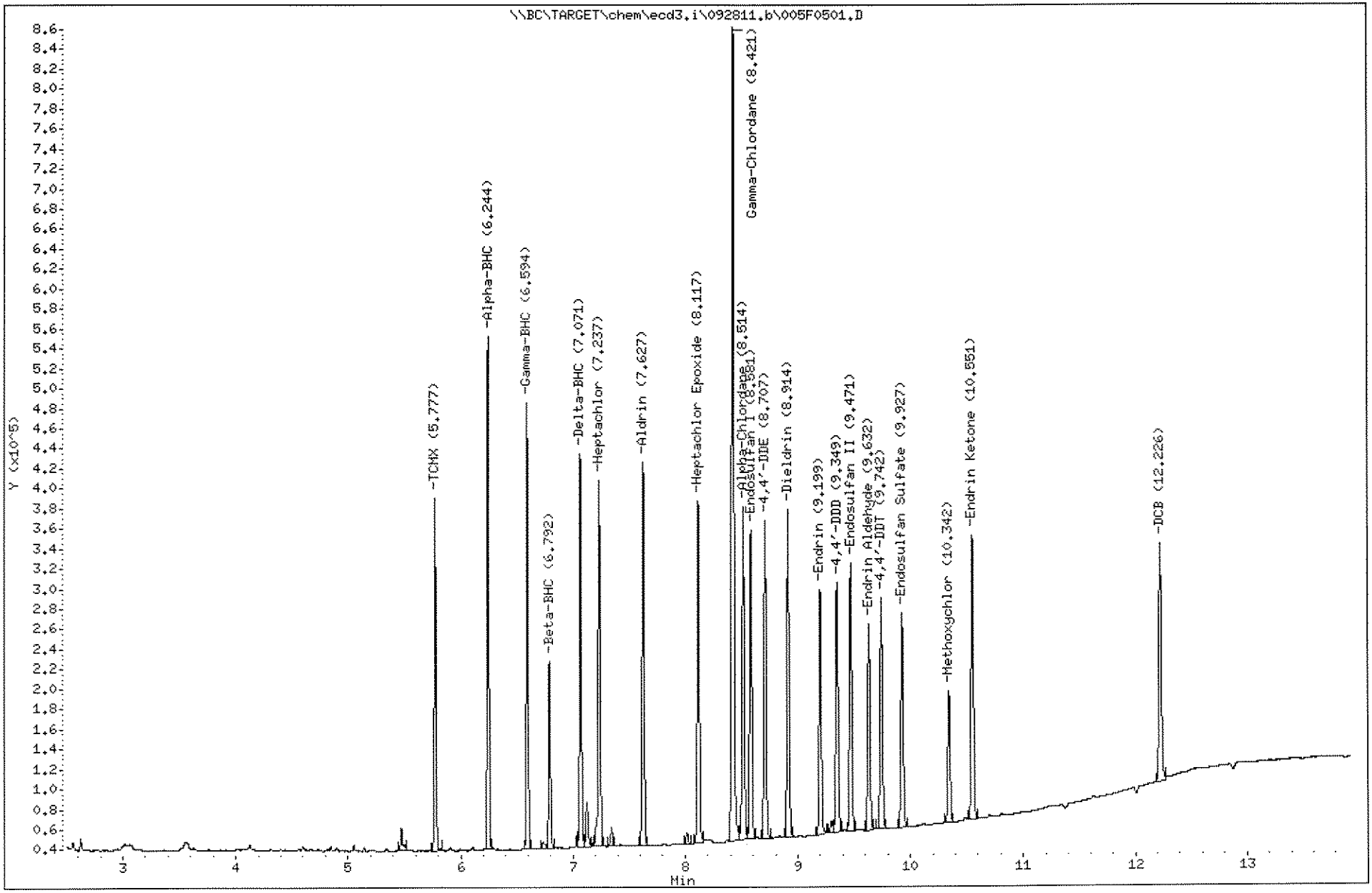
Data File: \\BC\TARGET\chem\ecd3.i\092811.b\005F0501.D
Date : 28-SEP-2011 10:10
Client ID:
Sample Info: SEQ-CAL5

Instrument: ecd3.i

Operator: EM

Column phase: ZB MR-1

Column diameter: 0.32



1309

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J.H. 9.30.11

Empirical Laboratories, LLC

SW-846 METHODS 8081A/8082

Data file : \\BC\TARGET\chem\ecd3.i\092811.b\006F0601.D
Lab Smp Id: SEQ-CAL4
Inj Date : 28-SEP-2011 10:28
Operator : EM Inst ID: ecd3.i
Smp Info : SEQ-CAL4
Misc Info : ;;;;;;INDABD.sub
Comment :
Method : \\BC\TARGET\chem\ecd3.i\092811.b\8081_82F.m
Meth Date : 29-Sep-2011 12:27 jeh Quant Type: ESTD
Cal Date : 10-AUG-2011 19:35 Cal File: 002F0101.D
Als bottle: 6 Calibration Sample, Level: 4
Dil Factor: 1.00000
Integrator: Falcon Compound Sublist: INDABD.sub
Target Version: 4.04
Processing Host: NSH-LAPTOP1

Compounds	RT	EXP RT	DLT RT	RESPONSE	AMOUNTS CAL-AMT (ng/mL)	AMOUNTS ON-COL (ng/mL)
$ 38 TCMX	5.776	5.778	-0.002	903259	25.0000	25.31
3 Alpha-BHC	6.245	6.247	-0.002	1353098 X	25.0000	25.59
23 Gamma-BHC	6.593	6.595	-0.002	1227029	25.0000	25.16
5 Beta-BHC	6.791	6.793	-0.002	518886	25.0000	24.26
15 Delta-BHC	7.070	7.072	-0.002	1139543 *	25.0000	25.09
25 Heptachlor	7.236	7.240	-0.004	1126650	25.0000	24.97
2 Aldrin	7.626	7.628	-0.002	1206890	25.0000	25.26
26 Heptachlor Epoxide	8.116	8.119	-0.003	1113263	25.0000	24.50
24 Gamma-Chlordane	8.420	8.422	-0.002	1849568	25.0000	24.56
4 Alpha-Chlordane	8.513	8.516	-0.003	1103576	25.0000	23.37
17 Endosulfan I	8.581	8.583	-0.002	1025433	25.0000	24.37
13 4,4'-DDE	8.706	8.708	-0.002	1080529	25.0000	24.74
16 Dieldrin	8.913	8.915	-0.002	1097657	25.0000	24.87
20 Endrin	9.198	9.200	-0.002	848015	25.0000	25.21
12 4,4'-DDD	9.348	9.348	0.000	875468	25.0000	24.49
18 Endosulfan II	9.470	9.472	-0.002	913281	25.0000	24.16
21 Endrin Aldehyde	9.631	9.633	-0.002	725449	25.0000	24.56
14 4,4'-DDT	9.741	9.743	-0.002	830142	25.0000	24.88
19 Endosulfan Sulfate	9.926	9.928	-0.002	793380	25.0000	24.42
27 Methoxychlor	10.341	10.343	-0.002	451659	25.0000	24.30
22 Endrin Ketone	10.548	10.552	-0.004	1012597	25.0000	24.33
$ 39 DCB	12.225	12.225	0.000	882530	25.0000	24.29

10/03/11

Data File: \\BC\TARGET\chem\ecd3.i\092811.b\006F0601.D

Date : 28-SEP-2011 10:28

Client ID:

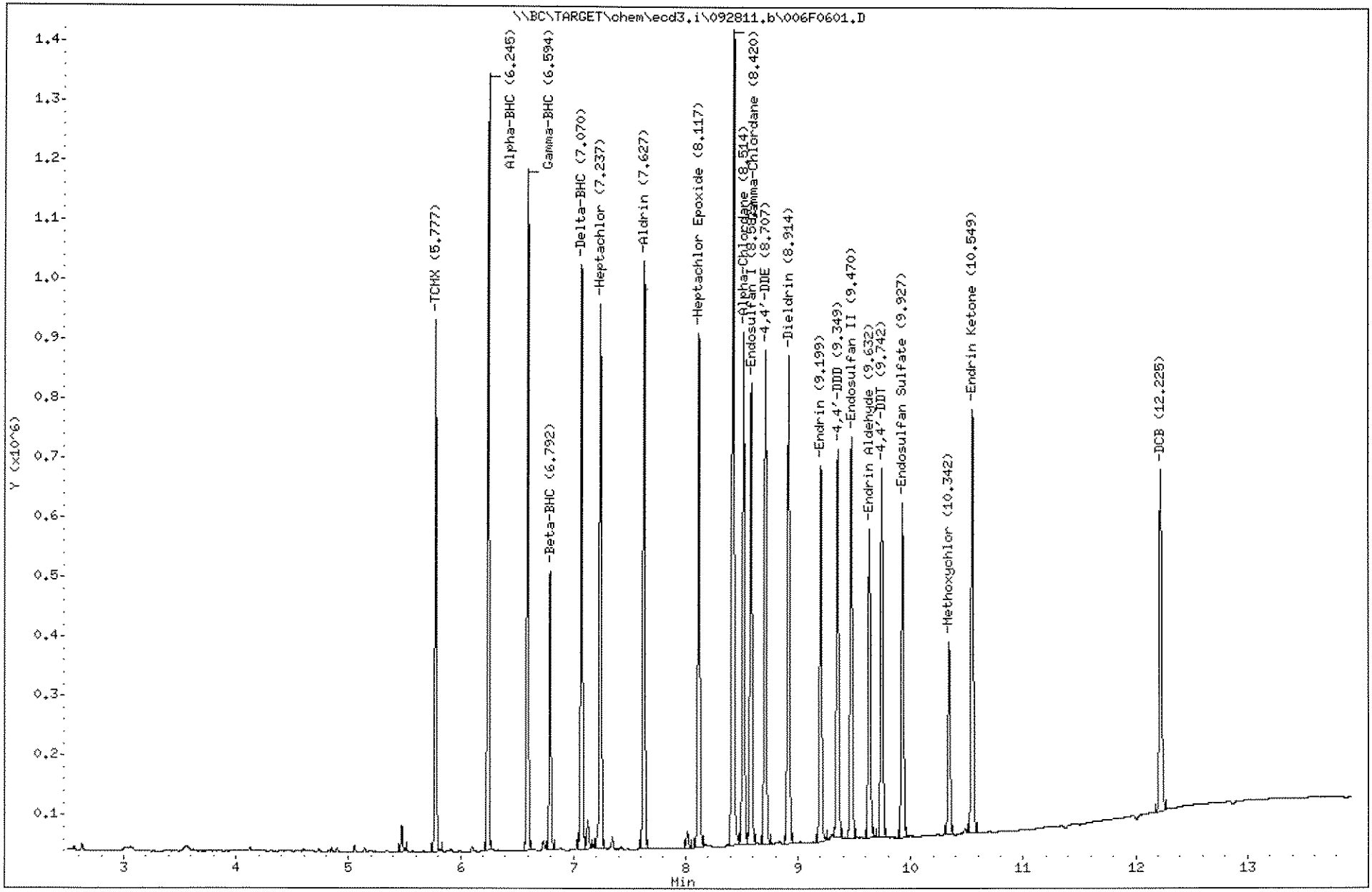
Sample Info: SEQ-CAL4

Column phase: ZB MR-1

Instrument: ecd3.i

Operator: EM

Column diameter: 0.32



1311

1109191

J.H. 9.30.11

Empirical Laboratories, LLC

SW-846 METHODS 8081A/8082

Data file : \\BC\TARGET\chem\ecd3.i\092811.b\007F0701.D
Lab Smp Id: SEQ-CAL3
Inj Date : 28-SEP-2011 10:47
Operator : EM Inst ID: ecd3.i
Smp Info : SEQ-CAL3
Misc Info : ;;;;;;INDABD.sub
Comment :
Method : \\BC\TARGET\chem\ecd3.i\092811.b\8081_82F.m
Meth Date : 29-Sep-2011 12:27 jeh Quant Type: ESTD
Cal Date : 10-AUG-2011 19:35 Cal File: 002F0101.D
Als bottle: 7 Calibration Sample, Level: 3
Dil Factor: 1.00000
Integrator: Falcon Compound Sublist: INDABD.sub
Target Version: 4.04
Processing Host: NSH-LAPTOP1

Compounds	RT	EXP RT	DLT RT	RESPONSE	AMOUNTS CAL-AMT (ng/mL)	AMOUNTS ON-COL (ng/mL)
$ 38 TCMX	5.778	5.778	0.000	1772902	50.0000	49.68
3 Alpha-BHC	6.244	6.247	-0.003	2712653 ✗	50.0000	51.30
23 Gamma-BHC	6.594	6.595	-0.001	2448399	50.0000	50.21
5 Beta-BHC	6.793	6.793	0.000	1019861	50.0000	47.67
15 Delta-BHC	7.071	7.072	-0.001	2286805	50.0000	50.34
25 Heptachlor	7.238	7.240	-0.002	2204830	50.0000	48.86
2 Aldrin	7.628	7.628	0.000	2418490	50.0000	50.63
26 Heptachlor Epoxide	8.118	8.119	-0.001	2202659	50.0000	48.49
24 Gamma-Chlordane	8.419	8.422	-0.003	2948730	50.0000	42.81
4 Alpha-Chlordane	8.514	8.516	-0.002	2165467 *	50.0000	45.86
17 Endosulfan I	8.581	8.583	-0.002	2029641	50.0000	48.24
13 4,4'-DDE	8.708	8.708	0.000	2161881	50.0000	49.50
16 Dieldrin	8.913	8.915	-0.002	2207598	50.0000	50.03
20 Endrin	9.198	9.200	-0.002	1681931	50.0000	50.00
12 4,4'-DDD	9.348	9.348	0.000	1771924	50.0000	49.56
18 Endosulfan II	9.469	9.472	-0.003	1823020	50.0000	48.22
21 Endrin Aldehyde	9.633	9.633	0.000	1449356	50.0000	49.08
14 4,4'-DDT	9.743	9.743	0.000	1671953	50.0000	50.10
19 Endosulfan Sulfate	9.926	9.928	-0.002	1590437	50.0000	48.96
27 Methoxychlor	10.341	10.343	-0.002	891807	50.0000	47.98
22 Endrin Ketone	10.549	10.552	-0.003	2013935	50.0000	48.38
$ 39 DCB	12.224	12.225	-0.001	1706240	50.0000	46.97

10/03/11

Data File: \\BC\TARGET\chem\ecd3.i\092811.b\007F0701.D

Date : 28-SEP-2011 10:47

Client ID:

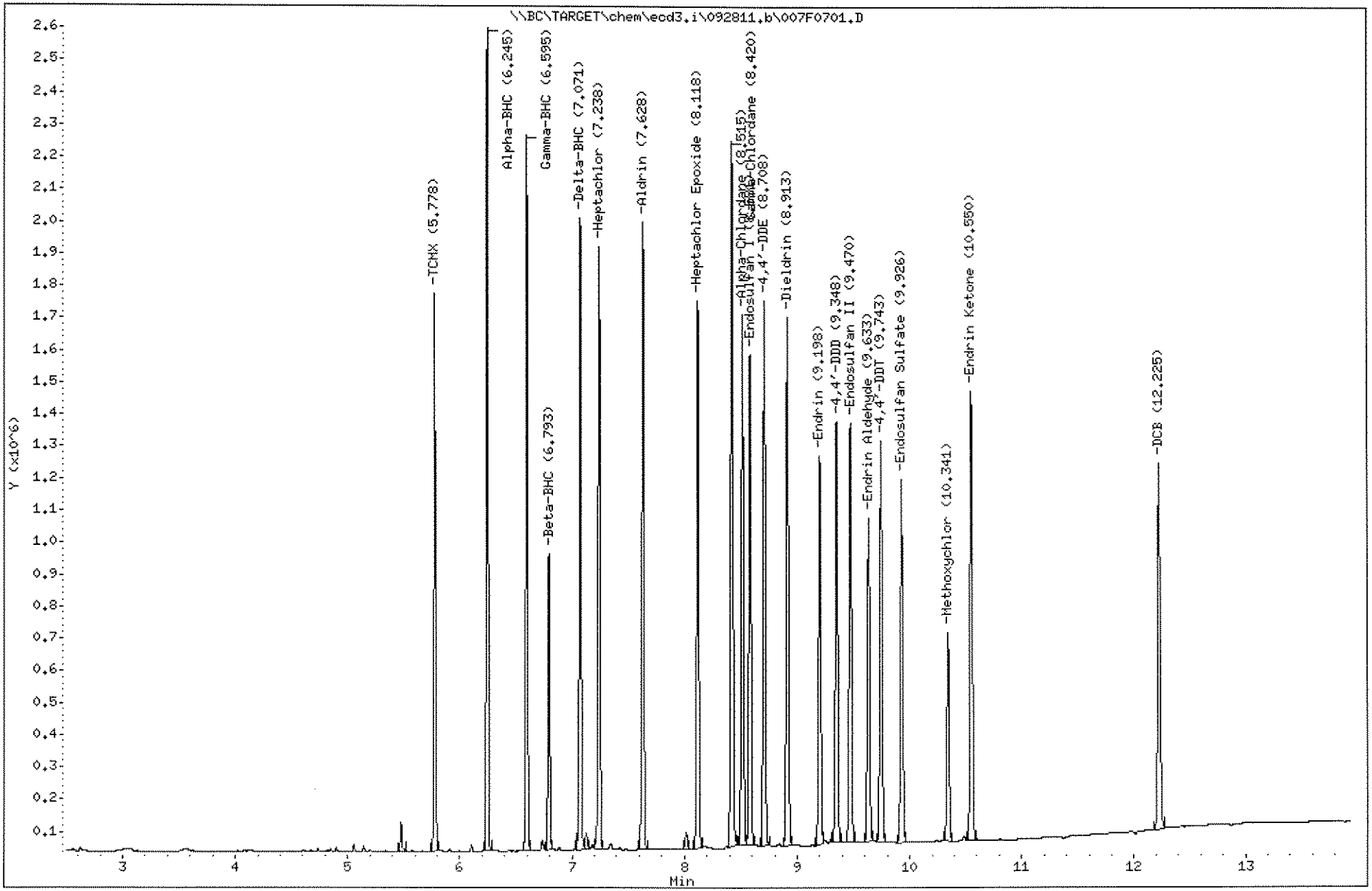
Sample Info: SEQ-CAL3

Column phase: ZB MR-1

Instrument: ecd3.i

Operator: EM

Column diameter: 0.32



1313

1109191

J.H. 9.30.11

Empirical Laboratories, LLC

SW-846 METHODS 8081A/8082

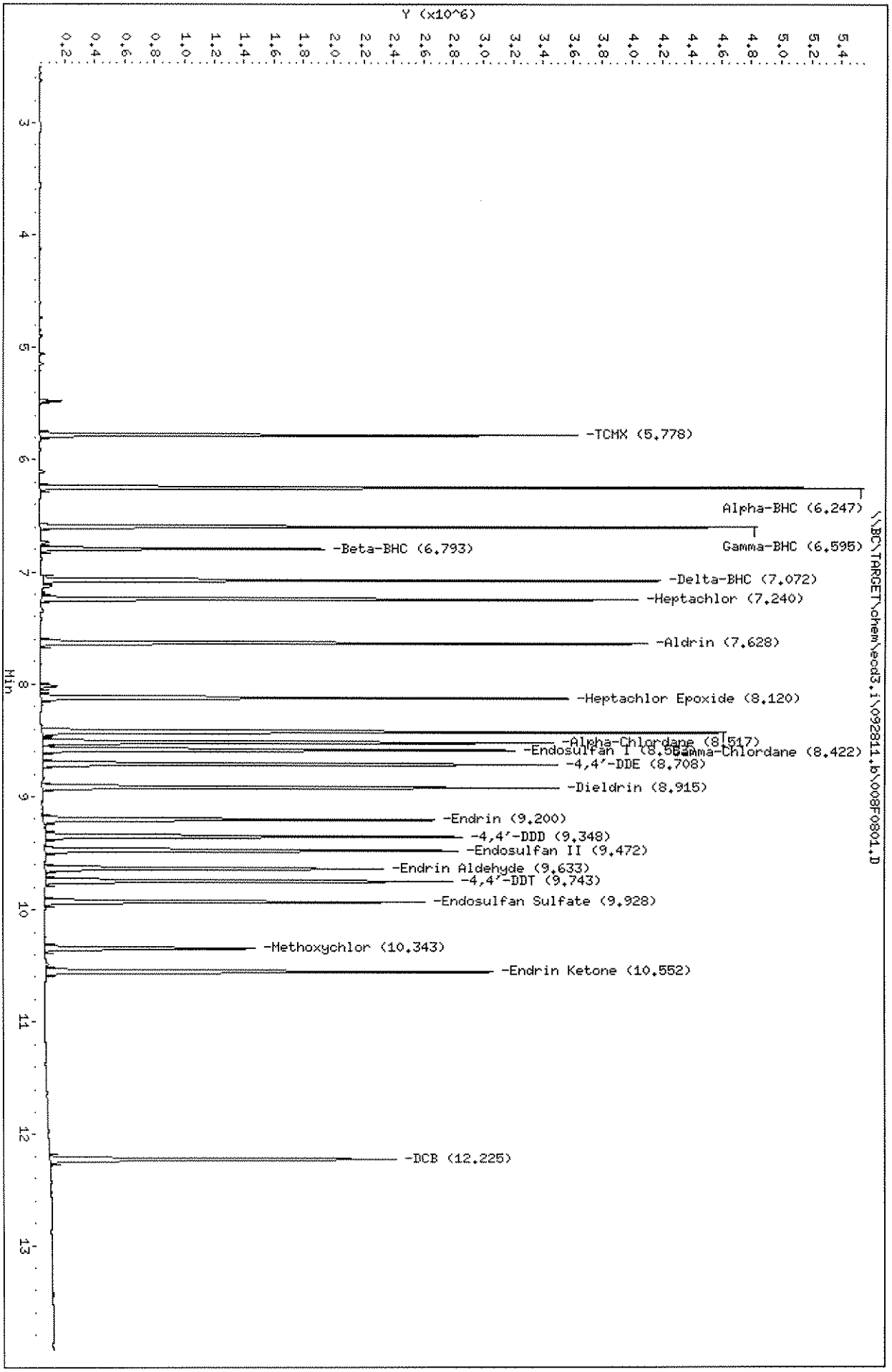
Data file : \\BC\TARGET\chem\ecd3.i\092811.b\008F0801.D
Lab Smp Id: SEQ-CAL2
Inj Date : 28-SEP-2011 11:06
Operator : EM Inst ID: ecd3.i
Smp Info : SEQ-CAL2
Misc Info : ;;;;;;INDABD.sub
Comment :
Method : \\BC\TARGET\chem\ecd3.i\092811.b\8081_82F.m
Meth Date : 29-Sep-2011 12:28 jeh Quant Type: ESTD
Cal Date : 10-AUG-2011 19:35 Cal File: 002F0101.D
Als bottle: 8 Calibration Sample, Level: 2
Dil Factor: 1.00000
Integrator: Falcon Compound Sublist: INDABD.sub
Target Version: 4.04
Processing Host: NSH-LAPTOP1

Compounds	RT	EXP RT	DLT RT	RESPONSE	AMOUNTS CAL-AMT (ng/mL)	AMOUNTS ON-COL (ng/mL)
$ 38 TCMX	5.778	5.778	0.000	3663347	100.000	102.6
3 Alpha-BHC	6.246	6.247	-0.001	5738798	100.000	108.5
23 Gamma-BHC	6.594	6.595	-0.001	5175702	100.000	106.1
5 Beta-BHC	6.793	6.793	0.000	2114944	100.000	98.86
15 Delta-BHC	7.071	7.072	-0.001	4833508	100.000	106.4
25 Heptachlor	7.239	7.240	-0.001	4714619	100.000	104.5
2 Aldrin	7.628	7.628	0.000	5031234	100.000	105.3
26 Heptachlor Epoxide	8.119	8.119	0.000	4552256	100.000	100.2
24 Gamma-Chlordane	8.421	8.422	-0.001	6078962	100.000	105.0
4 Alpha-Chlordane	8.516	8.516	0.000	4498380	100.000	95.27
17 Endosulfan I	8.583	8.583	0.000	4226994	100.000	100.5
13 4,4'-DDE	8.708	8.708	0.000	4534251	100.000	103.8
16 Dieldrin	8.914	8.915	-0.001	4618264	100.000	104.6
20 Endrin	9.199	9.200	-0.001	3599587	100.000	107.0
12 4,4'-DDD	9.348	9.348	0.000	3747476	100.000	104.8
18 Endosulfan II	9.471	9.472	-0.001	3831208	100.000	101.3
21 Endrin Aldehyde	9.633	9.633	0.000	3045588	100.000	103.1
14 4,4'-DDT	9.743	9.743	0.000	3694425	100.000	110.7
19 Endosulfan Sulfate	9.928	9.928	0.000	3425325	100.000	105.4
27 Methoxychlor	10.343	10.343	0.000	1920122	100.000	103.3
22 Endrin Ketone	10.551	10.552	-0.001	4268474	100.000	102.5
$ 39 DCB	12.224	12.225	-0.001	3511866	100.000	96.67

10/03/11

Data File: \\BC\TARGET\chem\ecd3.i\092811.b\008F0801.D
Date : 28-SEP-2011 11:06
Client ID:
Sample Info: SEQ-CAL2
Column phase: ZB MR-1

Instrument: ecd3.i
Operator: EM
Column diameter: 0.32



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J.H. 9.30.11

Empirical Laboratories, LLC

SW-846 METHODS 8081A/8082

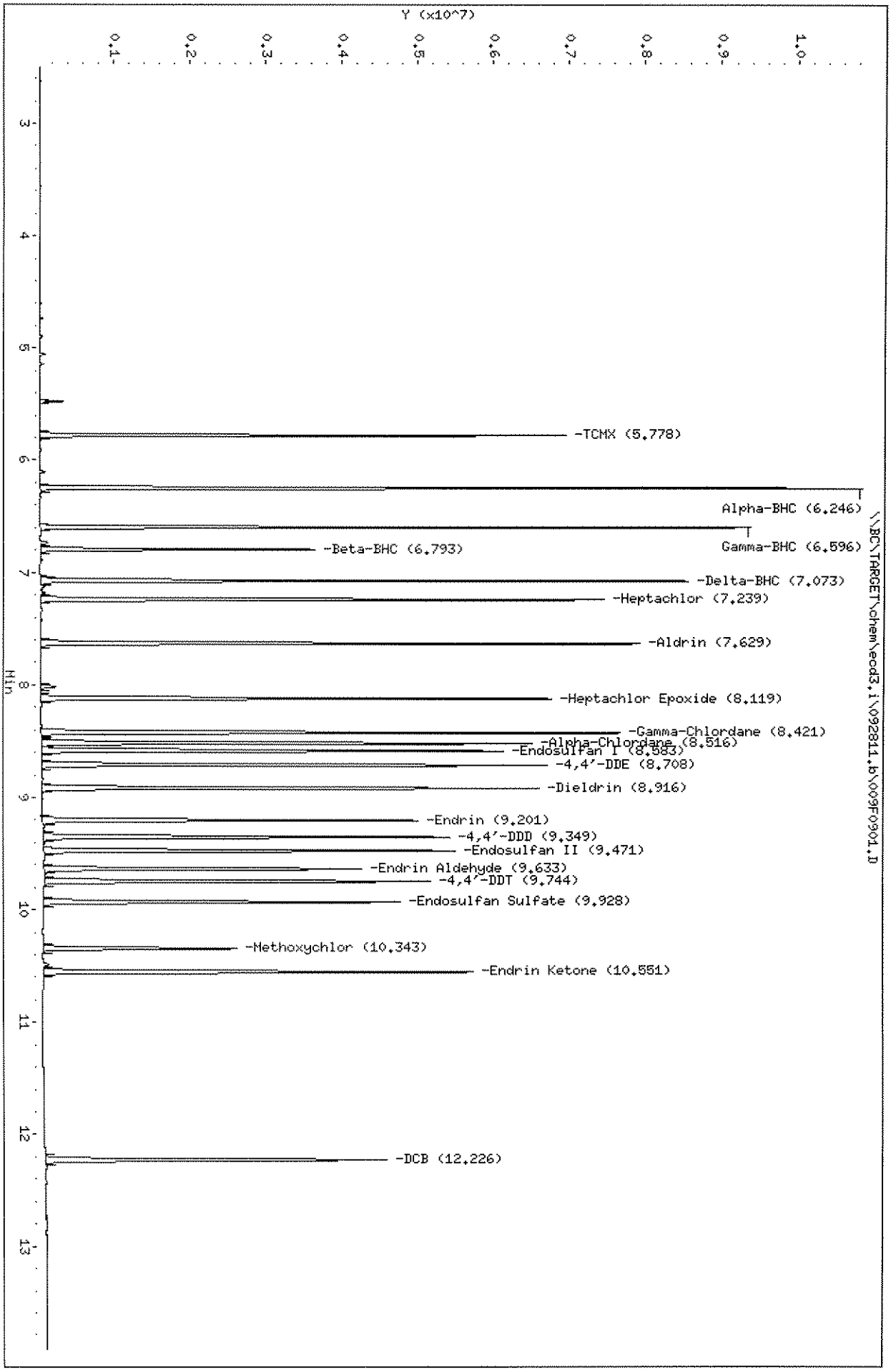
Data file : \\BC\TARGET\chem\ecd3.i\092811.b\009F0901.D
Lab Smp Id: SEQ-CAL1
Inj Date : 28-SEP-2011 11:24
Operator : EM Inst ID: ecd3.i
Smp Info : SEQ-CAL1
Misc Info : ;;;;;;INDABD.sub
Comment :
Method : \\BC\TARGET\chem\ecd3.i\092811.b\8081_82F.m
Meth Date : 29-Sep-2011 12:28 jeh Quant Type: ESTD
Cal Date : 10-AUG-2011 19:35 Cal File: 002F0101.D
Als bottle: 9 Calibration Sample, Level: 1
Dil Factor: 1.00000
Integrator: Falcon Compound Sublist: INDABD.sub
Target Version: 4.04
Processing Host: NSH-LAPTOP1

Compounds	RT	EXP RT	DLT RT	RESPONSE	AMOUNTS CAL-AMT (ng/mL)	AMOUNTS ON-COL (ng/mL)
$ 38 TCMX	5.777	5.778	-0.001	6996709	200.000	196.1
3 Alpha-BHC	6.246	6.247	-0.001	11300970 ✗	200.000	213.7(A)
23 Gamma-BHC	6.596	6.595	0.001	10118494	200.000	207.5(A)
5 Beta-BHC	6.792	6.793	-0.001	4063642	200.000	190.0
15 Delta-BHC	7.072	7.072	0.000	9448415	200.000	208.0(A)
25 Heptachlor	7.239	7.240	-0.001	8983001	200.000	199.1
2 Aldrin	7.629	7.628	0.001	9748151 *	200.000	204.1(A)
26 Heptachlor Epoxide	8.119	8.119	0.000	8733679	200.000	192.2
24 Gamma-Chlordane	8.421	8.422	-0.001	9809875	200.000	198.7
4 Alpha-Chlordane	8.516	8.516	0.000	8673278	200.000	183.7
17 Endosulfan I	8.582	8.583	-0.001	8127570	200.000	193.2
13 4,4'-DDE	8.707	8.708	-0.001	8702209	200.000	199.2
16 Dieldrin	8.916	8.915	0.001	8930425	200.000	202.4(A)
20 Endrin	9.201	9.200	0.001	6744661	200.000	200.5(A)
12 4,4'-DDD	9.349	9.348	0.001	7196004	200.000	201.3(A)
18 Endosulfan II	9.471	9.472	-0.001	7321202	200.000	193.7
21 Endrin Aldehyde	9.632	9.633	-0.001	5805308	200.000	196.6
14 4,4'-DDT	9.744	9.743	0.001	6962403	200.000	208.6(A)
19 Endosulfan Sulfate	9.927	9.928	-0.001	6445902	200.000	198.4
27 Methoxychlor	10.342	10.343	-0.001	3523461	200.000	189.5
22 Endrin Ketone	10.551	10.552	-0.001	8077556	200.000	194.1
$ 39 DCB	12.226	12.225	0.001	6484721	200.000	178.5

10/03/11

Data File: \\BC\TARGET\chem\ecd3.i\092811.b\009F0901.D
Date : 28-SEP-2011 11:24
Client ID:
Sample Info: SEQ-CAL1
Column phase: ZB MR-1

Instrument: ecd3.i
Operator: EM
Column diameter: 0.32



J.H. 9.30.11

Empirical Laboratories, LLC

SW-846 METHODS 8081A/8082

Data file : \\BC\TARGET\chem\ecd3.i\092811.b\010F1001.D
Lab Smp Id: SEQ-ICV1
Inj Date : 28-SEP-2011 11:43
Operator : EM Inst ID: ecd3.i
Smp Info : SEQ-ICV1
Misc Info : ;;;;;;INDAB.sub
Comment :
Method : \\BC\TARGET\chem\ecd3.i\092811.b\8081_82F.m
Meth Date : 29-Sep-2011 12:29 jeh Quant Type: ESTD
Cal Date : 10-AUG-2011 19:35 Cal File: 002F0101.D
Als bottle: 10 Continuing Calibration Sample
Dil Factor: 1.00000
Integrator: Falcon Compound Sublist: indab.sub
Target Version: 4.04
Processing Host: NSH-LAPTOP1

Compounds	RT	EXP RT	DLT RT	RESPONSE	AMOUNTS CAL-AMT (ng/mL)	AMOUNTS ON-COL (ng/mL)
3 Alpha-BHC	6.246	6.247	-0.001	5416151 ✗	100.000	102.4
23 Gamma-BHC	6.594	6.595	-0.001	4913340	100.000	100.8
5 Beta-BHC	6.792	6.793	-0.001	1948405	100.000	91.08
15 Delta-BHC	7.072	7.072	0.000	4554870	100.000	100.3
25 Heptachlor	7.239	7.240	-0.001	4536253	100.000	100.5
2 Aldrin	7.629	7.628	0.001	4836140	100.000	101.2
26 Heptachlor Epoxide	8.117	8.119	-0.002	4356770	100.000	95.90
24 Gamma-Chlordane	8.421	8.422	-0.001	6892343	100.000	123.6
4 Alpha-Chlordane	8.514	8.516	-0.002	4313631	100.000	91.36
17 Endosulfan I	8.581	8.583	-0.002	4009581	100.000	95.31
13 4,4'-DDE	8.707	8.708	-0.001	4308272	100.000	98.64
16 Dieldrin	8.914	8.915	-0.001	4411939	100.000	99.98
20 Endrin	9.199	9.200	-0.001	3128146	100.000	93.00
12 4,4'-DDD	9.347	9.348	-0.001	3525654	100.000	98.61
18 Endosulfan II	9.471	9.472	-0.001	3637843	100.000	96.23
21 Endrin Aldehyde	9.632	9.633	-0.001	2992223	100.000	101.3
14 4,4'-DDT	9.742	9.743	-0.001	3481565	100.000	104.3
19 Endosulfan Sulfate	9.927	9.928	-0.001	3175443	100.000	97.76
27 Methoxychlor	10.342	10.343	-0.001	1774754	100.000	95.47
22 Endrin Ketone	10.549	10.552	-0.003	4207932 *	100.000	101.1

10/03/11

Data File: \\BC\TARGET\chem\ecd3.i\092811.b\010F1001.D

Date : 28-SEP-2011 11:43

Client ID:

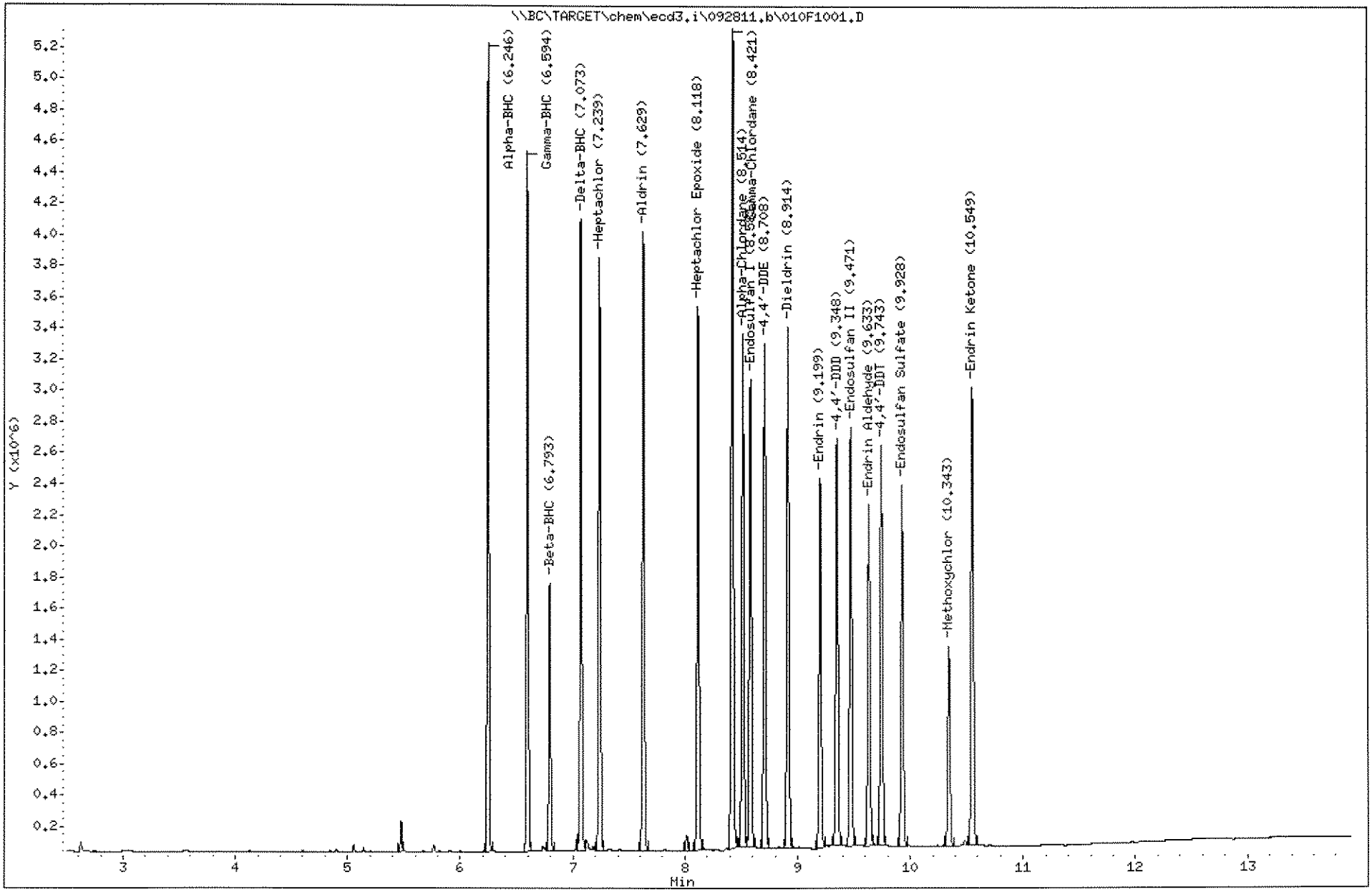
Sample Info: SEQ-ICV1

Column phase: ZB MR-1

Instrument: ecd3.i

Operator: EM

Column diameter: 0.32



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INITIAL CALIBRATION DATA

JH 10.2.11

Start Cal Date : 01-JUL-2010 08:58
End Cal Date : 28-SEP-2011 11:24
Quant Method : ESTD
Target Version : 4.04
Integrator : Falcon
Method file : \\BC\TARGET\chem\ecd3.i\092811.b\8081_82R.m
Cal Date : 02-Oct-2011 21:23 jeh

Compound	200.0000 Level 1 / 1.0000 Level 7	100.0000 Level 2	50.0000 Level 3	25.0000 Level 4	10.0000 Level 5	5.0000 Level 6	Curve	Coefficients b	m1	m2	%RSD or R^2
2 Aldrin	38676	42745	43536	45207	46227	47307					
	X 49056						AVRG		44679		7.63545
3 Alpha-BHC	X 45033	48685	X 48535	X 50406	X 50736	X 51428					
	49872						AVRG		49242		4.33081
4 Alpha-Chlordane	36086	40220	40894	43270	47296	52210					
	58685						AVRG		45523		17.12790
5 Beta-BHC	18611	20351	20542	21483	22626	24464					
	30475						AVRG		22650		17.28134
6 Chlordane (1)	2560	2637	2647	2851	3034	3391					
	+++++						AVRG		2853		11.05953
(2)	929	928	908	947	963	1116					
	+++++						AVRG		965		7.89271
(3)	1100	1118	1098	1071	1108	1211					
	+++++						AVRG		1117		4.32127
(4)	975	1046	1021	1005	1173	1140					
	+++++						AVRG		1060		7.44462
(5)	834	849	811	881	839	935					
	+++++						AVRG		858		5.09769

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Empirical Laboratories, LLC

INITIAL CALIBRATION DATA

Start Cal Date : 01-JUL-2010 08:58
End Cal Date : 28-SEP-2011 11:24
Quant Method : ESTD
Target Version : 4.04
Integrator : Falcon
Method file : \\BC\TARGET\chem\ecd3.i\092811.b\8081_82R.m
Cal Date : 02-Oct-2011 21:23 jeh

Compound	200.0000 Level 1 / 1.0000 Level 7	100.0000 Level 2	50.0000 Level 3	25.0000 Level 4	10.0000 Level 5	5.0000 Level 6	Curve	Coefficients b	m1	m2	%RSD or R^2
7 Chlorothalonil	+++++ +++++	+++++	+++++	+++++	+++++	+++++	AVRG		0.000e+000		0.000e+000
8 Dacthal	+++++ +++++	+++++	+++++	+++++	+++++	+++++	AVRG		0.000e+000		0.000e+000
9 2,4'-DDD	+++++ +++++	+++++	+++++	+++++	+++++	+++++	AVRG		0.000e+000		0.000e+000
10 2,4'-DDE	+++++ +++++	+++++	+++++	+++++	+++++	+++++	AVRG		0.000e+000		0.000e+000
11 2,4'-DDT	+++++ +++++	+++++	+++++	+++++	+++++	+++++	AVRG		0.000e+000		0.000e+000

~~* NOT USED *~~

Data File: \\BC\TARGET\chem\ecd3.i\092811.b\003R0301.D
Report Date: 29-Sep-2011 12:26

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SW-846 METHODS 8081A/8082

Data file : \\BC\TARGET\chem\ecd3.i\092811.b\003R0301.D
Lab Smp Id: SEQ-CAL7
Inj Date : 28-SEP-2011 09:32
Operator : EM Inst ID: ecd3.i
Smp Info : SEQ-CAL7
Misc Info : ;;;;;;INDABD.sub
Comment :
Method : \\BC\TARGET\chem\ecd3.i\092811.b\8081_82R.m
Meth Date : 29-Sep-2011 12:26 jeh Quant Type: ESTD
Cal Date : 10-AUG-2011 19:35 Cal File: 002R0101.D
Als bottle: 3 Calibration Sample, Level: 7
Dil Factor: 1.00000
Integrator: Falcon Compound Sublist: indabd.sub
Target Version: 4.04
Processing Host: NSH-LAPTOP1

Compounds	RT	EXP RT	DLT RT	RESPONSE	AMOUNTS CAL-AMT (ng/mL)	AMOUNTS ON-COL (ng/mL)
$ 38 TCMX [2C]	5.115	5.116	-0.001	37342	1.00000	1.062
3 Alpha-BHC [2C]	5.628	5.629	-0.001	49872	1.00000	1.013
23 Gamma-BHC [2C]	5.968	5.968	0.000	47198	1.00000	1.059
5 Beta-BHC [2C]	6.256	6.258	-0.002	30475	1.00000	1.345
25 Heptachlor [2C]	6.328	6.329	-0.001	42250	1.00000	1.117
15 Delta-BHC [2C]	6.516	6.518	-0.002	43644	1.00000	1.050
2 Aldrin [2C]	6.636	6.638	-0.002	49056 X	1.00000	1.098
26 Heptachlor Epoxide [2C]	7.188	7.189	-0.001	48590	1.00000	1.160
24 Gamma-Chlordane [2C]	7.470	7.471	-0.001	25671	1.00000	0.6802(M) ← NOT USED
4 Alpha-Chlordane [2C]	7.545	7.546	-0.001	58685	1.00000	1.289
17 Endosulfan I [2C]	7.623	7.624	-0.001	44360	1.00000	1.137
13 4,4'-DDE [2C]	7.743	7.743	0.000	43318	1.00000	1.093
16 Dieldrin [2C]	7.935	7.934	0.001	46088	1.00000	1.100
20 Endrin [2C]	8.273	8.273	0.000	35883	1.00000	1.079
12 4,4'-DDD [2C]	8.413	8.413	0.000	36643	1.00000	1.067
18 Endosulfan II [2C]	8.625	8.625	0.000	42018	1.00000	1.207
14 4,4'-DDT [2C]	8.725	8.726	-0.001	31935	1.00000	1.001
21 Endrin Aldehyde [2C]	8.846	8.846	0.000	30742	* 1.00000	1.123
19 Endosulfan Sulfate [2C]	9.121	9.123	-0.002	32897	1.00000	1.126
27 Methoxychlor [2C]	9.441	9.441	0.000	20856	1.00000	1.180
22 Endrin Ketone [2C]	9.781	9.783	-0.002	35390	1.00000	0.9957
$ 39 DCB [2C]	11.140	11.138	0.002	35761	1.00000	1.222

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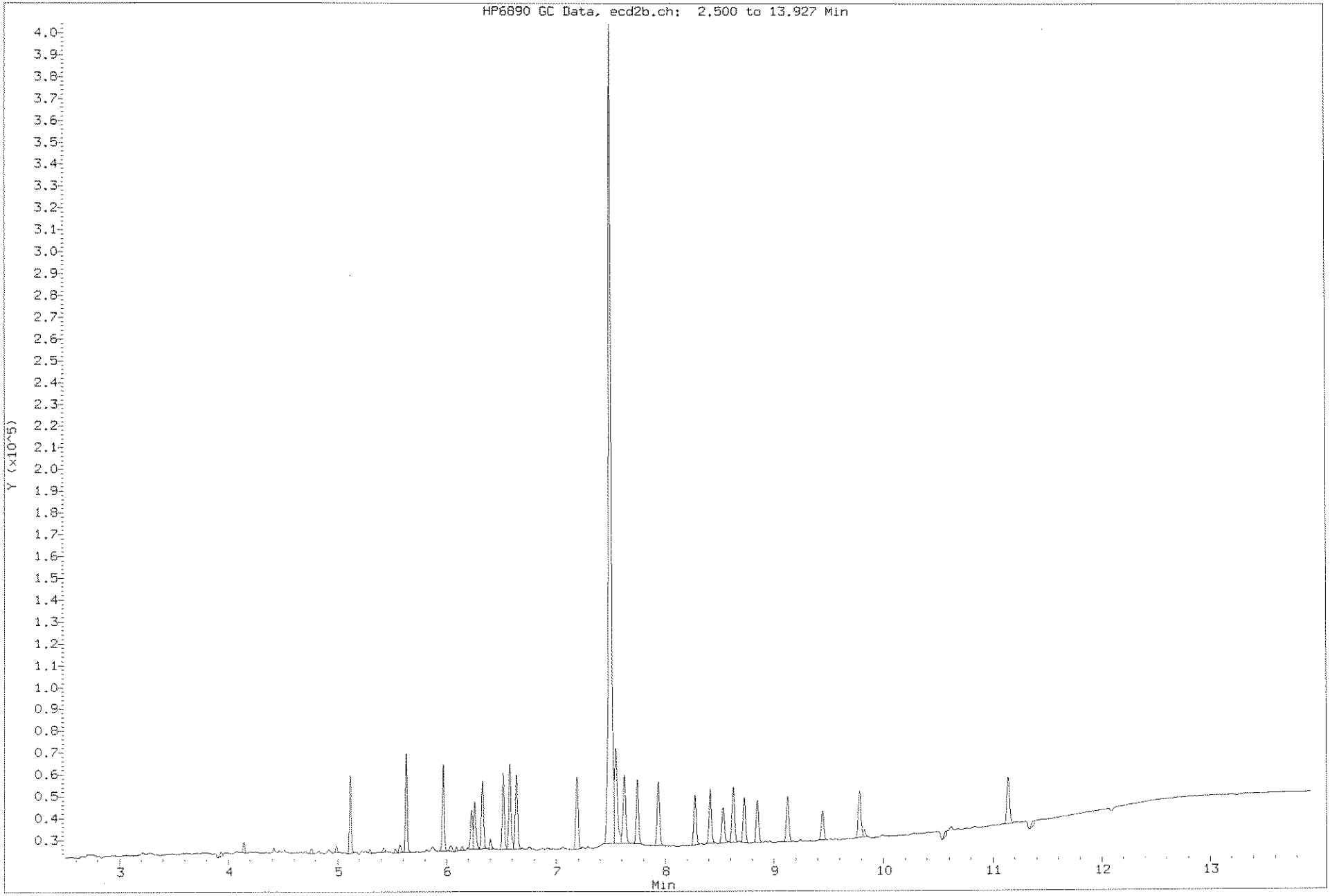
Data File: \\BC\TARGET\chem\ecd3.i\092811.b\003R0301.D
Injection Date: 28-SEP-2011 09:32
Instrument: ecd3.i
Client Sample ID:



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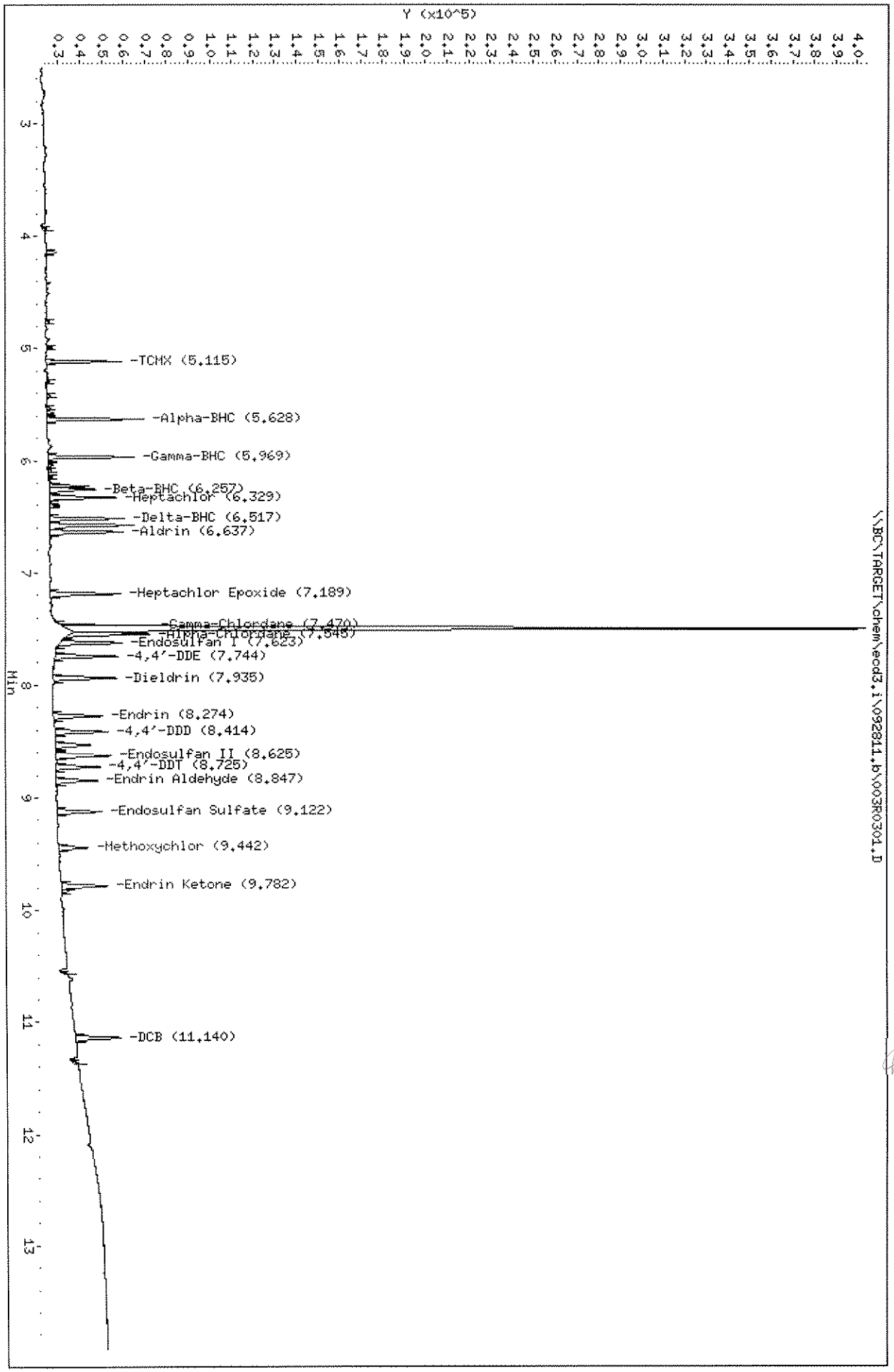
Data File: \\BC\TARGET\chem\ecd3.i\092811.b\003R0301.D
Date : 28-SEP-2011 09:32
Client ID:
Sample Info: SEQ-CAL7
Column phase: ZB MR-2

Instrument: ecd3.i
Operator: EH
Column diameter: 0.32



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~~* NOT USED *~~

Data File: \\BC\TARGET\chem\ecd3.i\092811.b\004R0401.D
Report Date: 29-Sep-2011 12:26

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Empirical Laboratories, LLC

SW-846 METHODS 8081A/8082

Data file : \\BC\TARGET\chem\ecd3.i\092811.b\004R0401.D
Lab Smp Id: SEQ-CAL6
Inj Date : 28-SEP-2011 09:51
Operator : EM Inst ID: ecd3.i
Smp Info : SEQ-CAL6
Misc Info : ;;;;;;INDABD.sub
Comment :
Method : \\BC\TARGET\chem\ecd3.i\092811.b\8081_82R.m
Meth Date : 29-Sep-2011 12:26 jeh Quant Type: ESTD
Cal Date : 10-AUG-2011 19:35 Cal File: 002R0101.D
Als bottle: 4 Calibration Sample, Level: 6
Dil Factor: 1.00000
Integrator: Falcon Compound Sublist: indabd.sub
Target Version: 4.04
Processing Host: NSH-LAPTOP1

Compounds	RT	EXP RT	DLT RT	RESPONSE		AMOUNTS CAL-AMT (ng/mL)	AMOUNTS ON-COL (ng/mL)
$ 38 TCMX [2C]	5.115	5.116	-0.001	190456		5.00000	5.418
3 Alpha-BHC [2C]	5.628	5.629	-0.001	257140	X	5.00000	5.222
23 Gamma-BHC [2C]	5.966	5.968	-0.002	233334		5.00000	5.236
5 Beta-BHC [2C]	6.255	6.258	-0.003	122322		5.00000	5.400
25 Heptachlor [2C]	6.326	6.329	-0.003	193494		5.00000	5.116
15 Delta-BHC [2C]	6.516	6.518	-0.002	213669		5.00000	5.142
2 Aldrin [2C]	6.636	6.638	-0.002	236535		5.00000	5.294
26 Heptachlor Epoxide [2C]	7.186	7.189	-0.003	224927		5.00000	5.371
24 Gamma-Chlordane [2C]	7.473	7.471	0.002	170413		5.00000	4.516(M) ← NOT USED
4 Alpha-Chlordane [2C]	7.543	7.546	-0.003	261048		5.00000	5.734
17 Endosulfan I [2C]	7.621	7.624	-0.003	212577		5.00000	5.448
13 4,4'-DDE [2C]	7.740	7.743	-0.003	208615		5.00000	5.265
16 Dieldrin [2C]	7.933	7.934	-0.001	219499		5.00000	5.241
20 Endrin [2C]	8.270	8.273	-0.003	172849		5.00000	5.198
12 4,4'-DDD [2C]	8.411	8.413	-0.002	179053		5.00000	5.214
18 Endosulfan II [2C]	8.623	8.625	-0.002	181352		5.00000	5.208
14 4,4'-DDT [2C]	8.725	8.726	-0.001	161099		5.00000	5.051
21 Endrin Aldehyde [2C]	8.845	8.846	-0.001	145249		5.00000	5.307
19 Endosulfan Sulfate [2C]	9.120	9.123	-0.003	150943		5.00000	5.169
27 Methoxychlor [2C]	9.440	9.441	-0.001	94138		5.00000	5.324
22 Endrin Ketone [2C]	9.781	9.783	-0.002	182603	*	5.00000	5.138
$ 39 DCB [2C]	11.138	11.138	0.000	160845		5.00000	5.495

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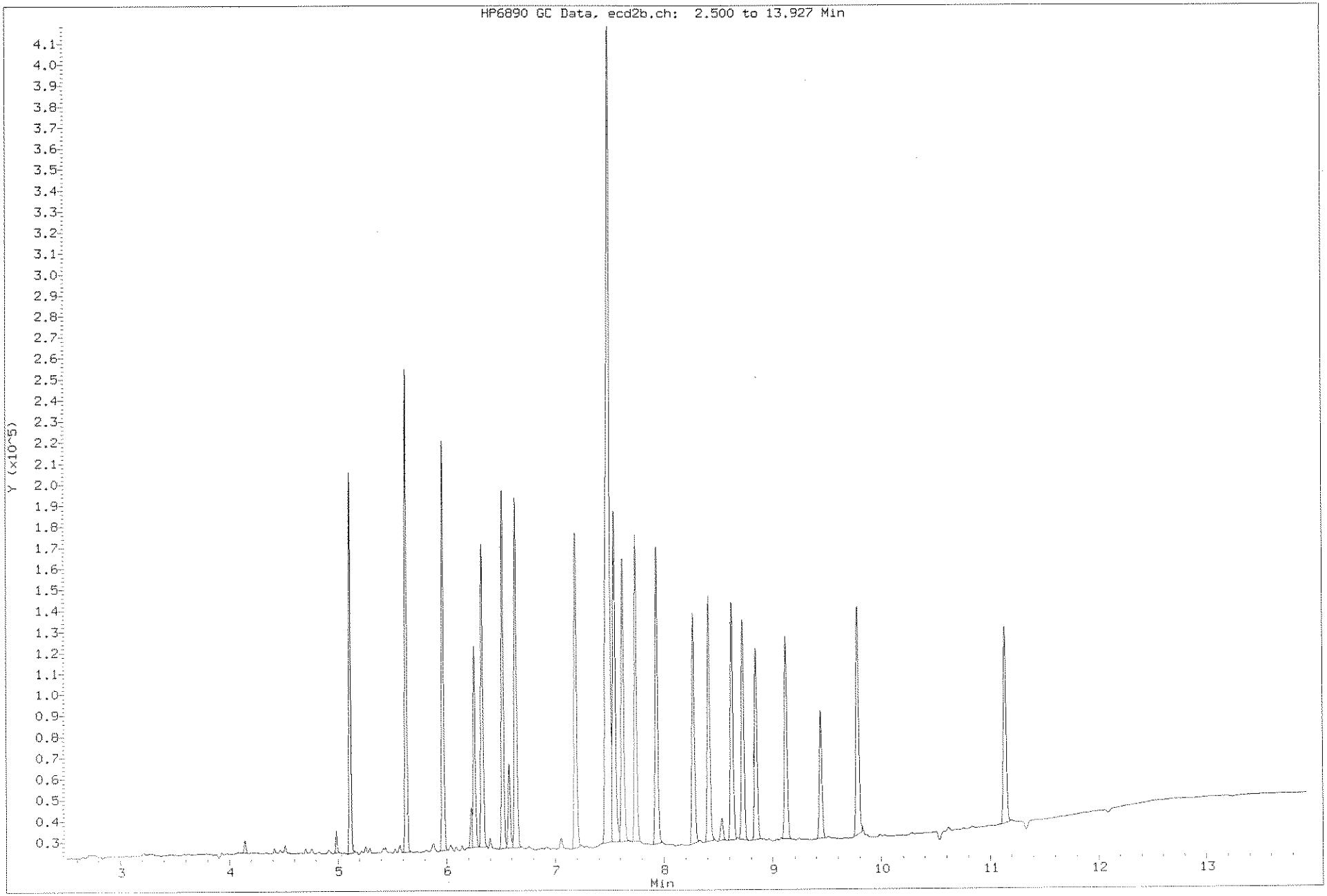
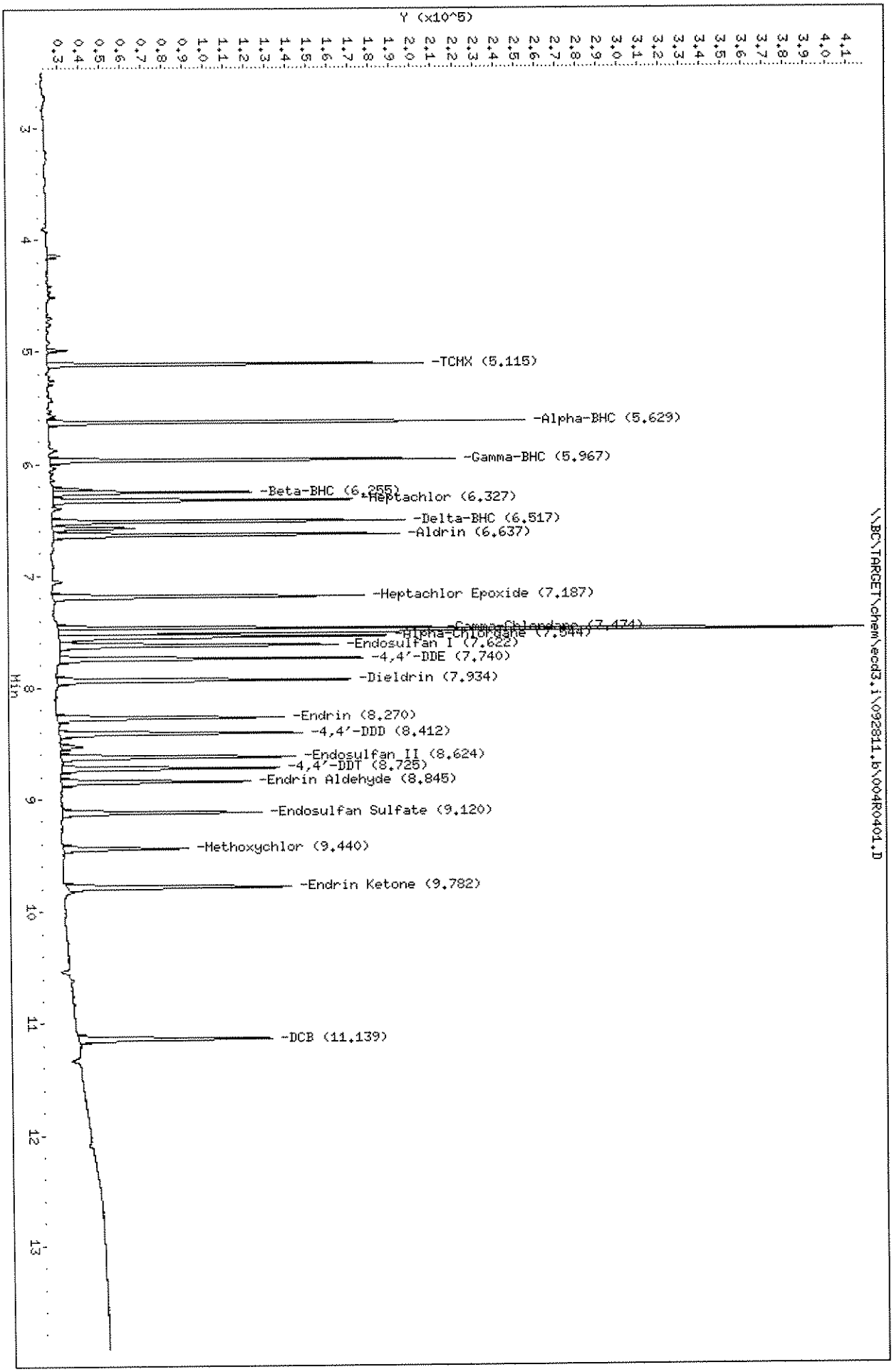
Data File: \\BC\TARGET\chem\ecd3.i\092811.b\004R0401.D
Injection Date: 28-SEP-2011 09:51
Instrument: ecd3.i
Client Sample ID:



Data File: \\BC\TARGET\chem\ecd3.i\092811.b\004R0401.D
Date : 28-SEP-2011 09:51
Client ID:
Sample Info: SEQ-CAL6
Column phase: ZB NR-2

Instrument: ecd3.i
Operator: EH
Column diameter: 0.32



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Empirical Laboratories, LLC

SW-846 METHODS 8081A/8082

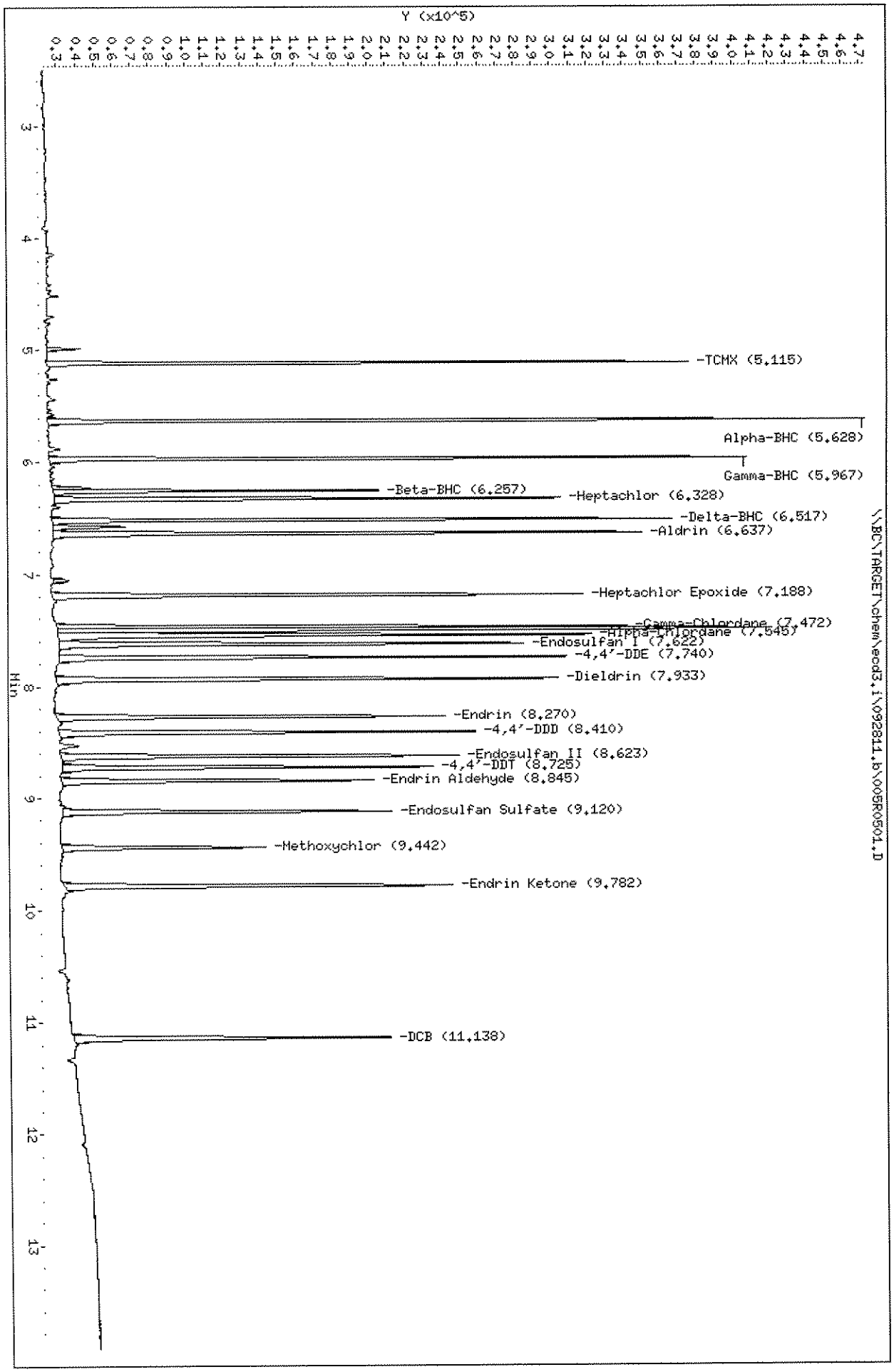
Data file : \\BC\TARGET\chem\ecd3.i\092811.b\005R0501.D
Lab Smp Id: SEQ-CAL5
Inj Date : 28-SEP-2011 10:10
Operator : EM Inst ID: ecd3.i
Smp Info : SEQ-CAL5
Misc Info : ;;;;;;INDABD.sub
Comment :
Method : \\BC\TARGET\chem\ecd3.i\092811.b\8081_82R.m
Meth Date : 29-Sep-2011 12:27 jeh Quant Type: ESTD
Cal Date : 10-AUG-2011 19:35 Cal File: 002R0101.D
Als bottle: 5 Calibration Sample, Level: 5
Dil Factor: 1.00000
Integrator: Falcon Compound Sublist: INDABD.sub
Target Version: 4.04
Processing Host: NSH-LAPTOP1

Compounds	RT	EXP RT	DLT RT	RESPONSE		AMOUNTS CAL-AMT (ng/mL)	AMOUNTS ON-COL (ng/mL)
$ 38 TCMX [2C]	5.114	5.116	-0.002	369683		10.0000	10.52
3 Alpha-BHC [2C]	5.628	5.629	-0.001	507359	x	10.0000	10.30
23 Gamma-BHC [2C]	5.966	5.968	-0.002	458161	*	10.0000	10.28
5 Beta-BHC [2C]	6.256	6.258	-0.002	226260		10.0000	9.989
25 Heptachlor [2C]	6.328	6.329	-0.001	379385		10.0000	10.03
15 Delta-BHC [2C]	6.516	6.518	-0.002	421109		10.0000	10.14
2 Aldrin [2C]	6.636	6.638	-0.002	462274		10.0000	10.35
26 Heptachlor Epoxide [2C]	7.188	7.189	-0.001	431222		10.0000	10.30
24 Gamma-Chlordane [2C]	7.471	7.471	0.000	349949		10.0000	9.273
4 Alpha-Chlordane [2C]	7.544	7.546	-0.002	472963		10.0000	10.39
17 Endosulfan I [2C]	7.621	7.624	-0.003	402891		10.0000	10.33
13 4,4'-DDE [2C]	7.739	7.743	-0.004	408416		10.0000	10.31
16 Dieldrin [2C]	7.933	7.934	-0.001	427684		10.0000	10.21
20 Endrin [2C]	8.269	8.273	-0.004	338183		10.0000	10.17
12 4,4'-DDD [2C]	8.409	8.413	-0.004	349532		10.0000	10.18
18 Endosulfan II [2C]	8.623	8.625	-0.002	347101		10.0000	9.969
14 4,4'-DDT [2C]	8.724	8.726	-0.002	316927		10.0000	9.936
21 Endrin Aldehyde [2C]	8.844	8.846	-0.002	277577		10.0000	10.14
19 Endosulfan Sulfate [2C]	9.119	9.123	-0.004	288225		10.0000	9.869
27 Methoxychlor [2C]	9.441	9.441	0.000	177042		10.0000	10.01
22 Endrin Ketone [2C]	9.781	9.783	-0.002	359051		10.0000	10.10
$ 39 DCB [2C]	11.138	11.138	0.000	297774		10.0000	10.17

10/03/11

Data File: \\BC\TARGET\chem\ecd3.i\092811.b\005R0501.D
Date : 28-SEP-2011 10:10
Client ID:
Sample Info: SEQ-CAL5
Column phase: ZB MR-2

Instrument: ecd3.i
Operator: EM
Column diameter: 0.32



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Empirical Laboratories, LLC

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Data file : \\BC\TARGET\chem\ecd3.i\092811.b\006R0601.D
Lab Smp Id: SEQ-CAL4
Inj Date : 28-SEP-2011 10:28
Operator : EM Inst ID: ecd3.i
Smp Info : SEQ-CAL4
Misc Info : ;;;;;;INDABD.sub
Comment :
Method : \\BC\TARGET\chem\ecd3.i\092811.b\8081_82R.m
Meth Date : 29-Sep-2011 12:27 jeh Quant Type: ESTD
Cal Date : 10-AUG-2011 19:35 Cal File: 002R0101.D
Als bottle: 6 Calibration Sample, Level: 4
Dil Factor: 1.00000
Integrator: Falcon Compound Sublist: INDABD.sub
Target Version: 4.04
Processing Host: NSH-LAPTOP1

Compounds	RT	EXP RT	DLT RT	RESPONSE		AMOUNTS CAL-AMT (ng/mL)	AMOUNTS ON-COL (ng/mL)
$ 38 TCMX [2C]	5.116	5.116	0.000	895240		25.0000	25.47
3 Alpha-BHC [2C]	5.629	5.629	0.000	1260143	X	25.0000	25.59
23 Gamma-BHC [2C]	5.967	5.968	-0.001	1128465		25.0000	25.32
5 Beta-BHC [2C]	6.256	6.258	-0.002	537087		25.0000	23.71
25 Heptachlor [2C]	6.327	6.329	-0.002	949679		25.0000	25.11
15 Delta-BHC [2C]	6.516	6.518	-0.002	1052722		25.0000	25.34
2 Aldrin [2C]	6.636	6.638	-0.002	1130185		25.0000	25.30
26 Heptachlor Epoxide [2C]	7.187	7.189	-0.002	1043534		25.0000	24.92
24 Gamma-Chlordane [2C]	7.469	7.471	-0.002	1062534	*	25.0000	28.16(M)
4 Alpha-Chlordane [2C]	7.544	7.546	-0.002	1081760		25.0000	23.76
17 Endosulfan I [2C]	7.621	7.624	-0.003	966591		25.0000	24.77
13 4,4'-DDE [2C]	7.739	7.743	-0.004	997206		25.0000	25.17
16 Dieldrin [2C]	7.932	7.934	-0.002	1054353		25.0000	25.18
20 Endrin [2C]	8.271	8.273	-0.002	841279		25.0000	25.30
12 4,4'-DDD [2C]	8.411	8.413	-0.002	868785		25.0000	25.30
18 Endosulfan II [2C]	8.624	8.625	-0.001	850956		25.0000	24.44
14 4,4'-DDT [2C]	8.724	8.726	-0.002	815720		25.0000	25.57
21 Endrin Aldehyde [2C]	8.844	8.846	-0.002	675093		25.0000	24.67
19 Endosulfan Sulfate [2C]	9.119	9.123	-0.004	721247		25.0000	24.70
27 Methoxychlor [2C]	9.439	9.441	-0.002	434140		25.0000	24.55
22 Endrin Ketone [2C]	9.781	9.783	-0.002	903796		25.0000	25.43
$ 39 DCB [2C]	11.136	11.138	-0.002	707864		25.0000	24.18

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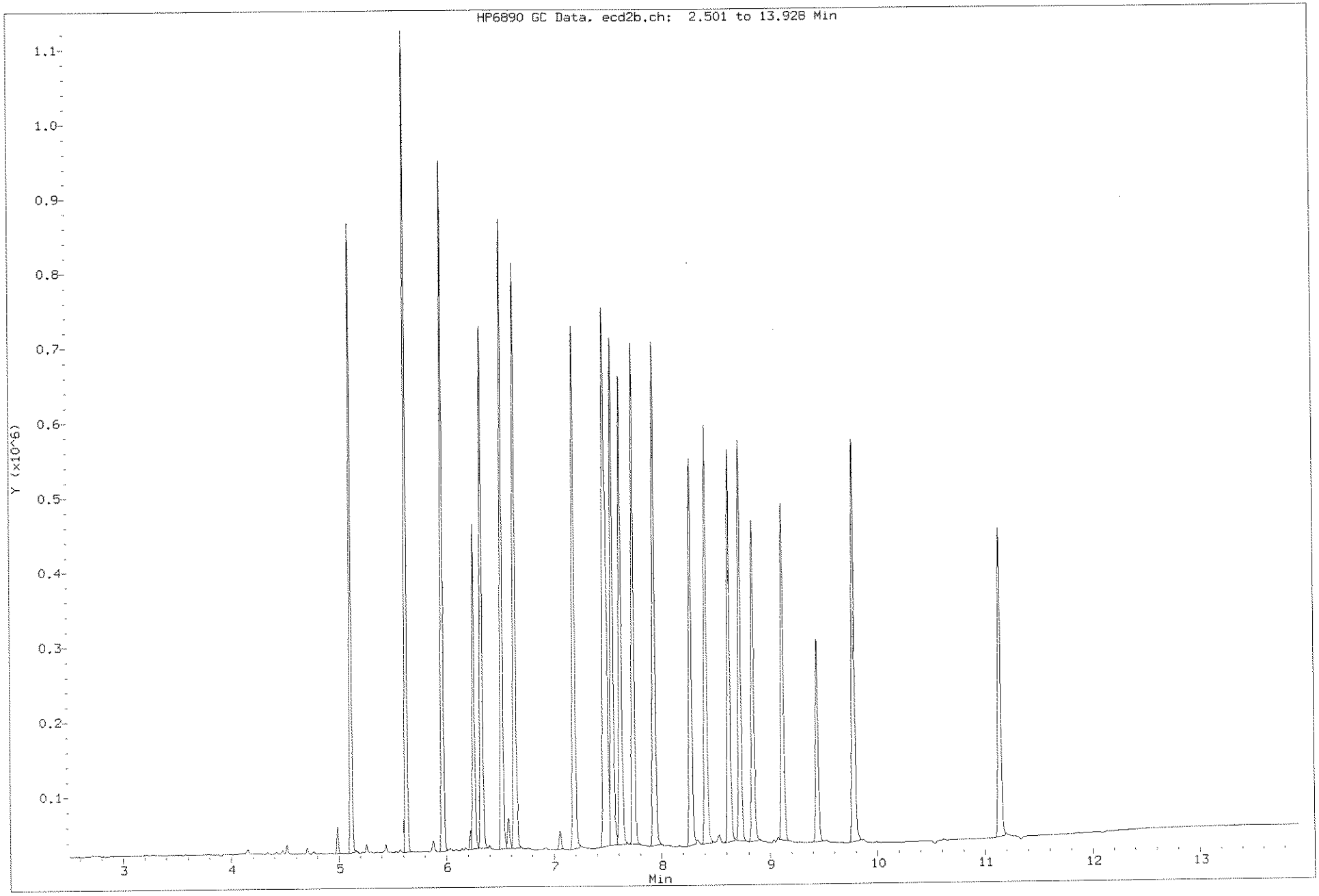
Data File: \\BC\TARGET\chem\ecd3.i\092811.b\006R0601.D
Injection Date: 28-SEP-2011 10:28
Instrument: ecd3.i
Client Sample ID:



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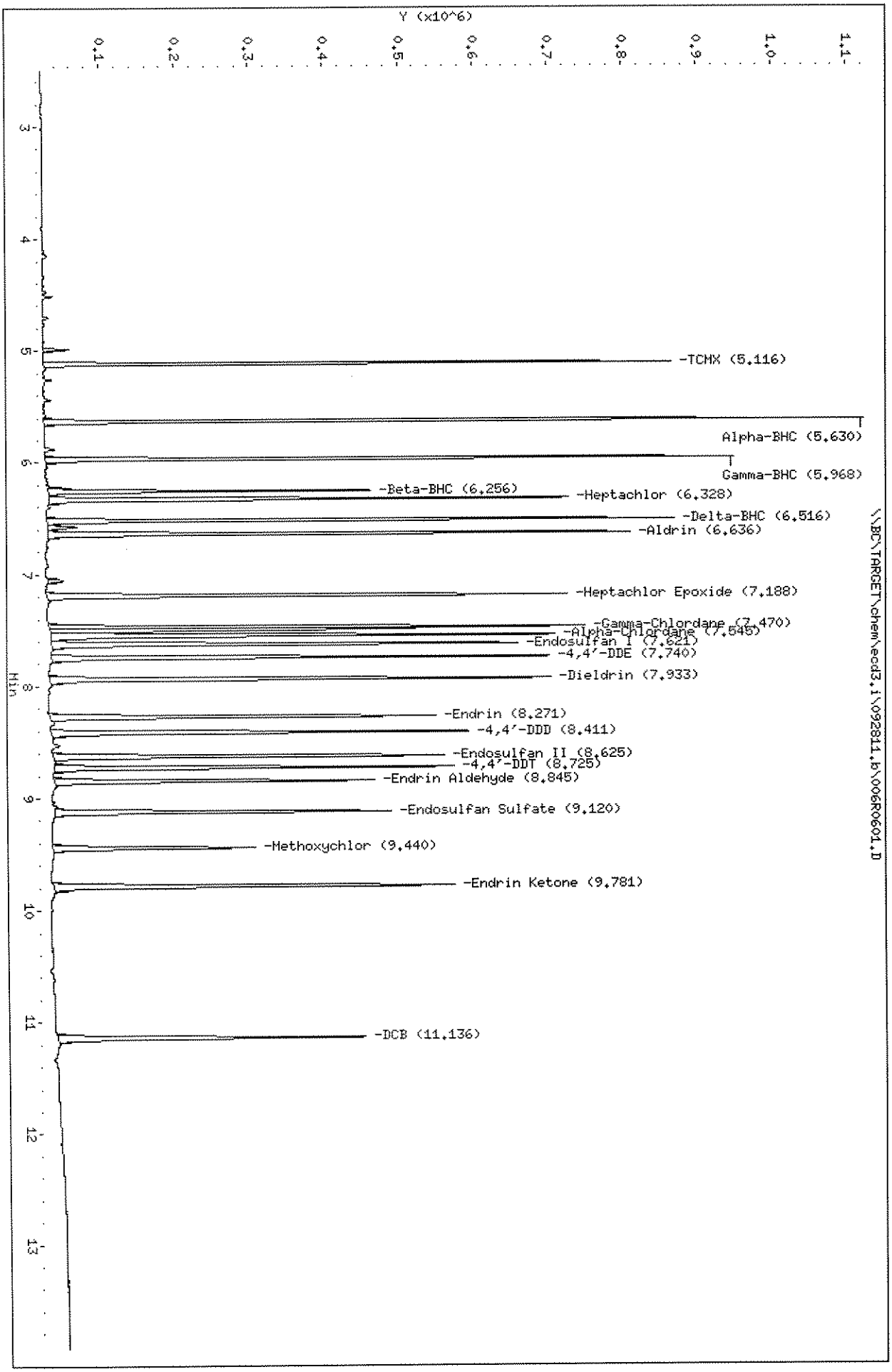
Data File: \\BC\TARGET\chem\ecd3.i\092811.b\006R0601.D
Date : 28-SEP-2011 10:28
Client ID:
Sample Info: SEQ-CAL4
Column phase: ZB MR-2

Instrument: ecd3.i
Operator: EH
Column diameter: 0.32



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Data file : \\BC\TARGET\chem\ecd3.i\092811.b\007R0701.D
Lab Smp Id: SEQ-CAL3
Inj Date : 28-SEP-2011 10:47
Operator : EM Inst ID: ecd3.i
Smp Info : SEQ-CAL3
Misc Info : ;;;;;;INDABD.sub
Comment :
Method : \\BC\TARGET\chem\ecd3.i\092811.b\8081_82R.m
Meth Date : 29-Sep-2011 12:28 jeh Quant Type: ESTD
Cal Date : 10-AUG-2011 19:35 Cal File: 002R0101.D
Als bottle: 7 Calibration Sample, Level: 3
Dil Factor: 1.00000
Integrator: Falcon Compound Sublist: INDABD.sub
Target Version: 4.04
Processing Host: NSH-LAPTOP1

Compounds	RT	EXP RT	DLT RT	RESPONSE		AMOUNTS CAL-AMT (ng/mL)	AMOUNTS ON-COL (ng/mL)
$ 38 TCMX [2C]	5.115	5.116	-0.001	1701941		50.0000	48.42
3 Alpha-BHC [2C]	5.629	5.629	0.000	2426763	X	50.0000	49.28
23 Gamma-BHC [2C]	5.967	5.968	-0.001	2171075		50.0000	48.72
5 Beta-BHC [2C]	6.255	6.258	-0.003	1027106		50.0000	45.35
25 Heptachlor [2C]	6.327	6.329	-0.002	1830893	*	50.0000	48.41
15 Delta-BHC [2C]	6.517	6.518	-0.001	2034234		50.0000	48.96
2 Aldrin [2C]	6.637	6.638	-0.001	2176788		50.0000	48.72
26 Heptachlor Epoxide [2C]	7.187	7.189	-0.002	1996405		50.0000	47.67
24 Gamma-Chlordane [2C]	7.469	7.471	-0.002	2224722		50.0000	58.95(M)
4 Alpha-Chlordane [2C]	7.544	7.546	-0.002	2044695		50.0000	44.92
17 Endosulfan I [2C]	7.622	7.624	-0.002	1862124		50.0000	47.72
13 4,4'-DDE [2C]	7.740	7.743	-0.003	1935511		50.0000	48.85
16 Dieldrin [2C]	7.934	7.934	0.000	2042962		50.0000	48.78
20 Endrin [2C]	8.272	8.273	-0.001	1630304		50.0000	49.02
12 4,4'-DDD [2C]	8.410	8.413	-0.003	1696335		50.0000	49.39
18 Endosulfan II [2C]	8.624	8.625	-0.001	1655279		50.0000	47.54
14 4,4'-DDT [2C]	8.725	8.726	-0.001	1593532		50.0000	49.96
21 Endrin Aldehyde [2C]	8.844	8.846	-0.002	1321034		50.0000	48.27
19 Endosulfan Sulfate [2C]	9.120	9.123	-0.003	1412624		50.0000	48.37
27 Methoxychlor [2C]	9.440	9.441	-0.001	842077		50.0000	47.62
22 Endrin Ketone [2C]	9.782	9.783	-0.001	1783690		50.0000	50.19
$ 39 DCB [2C]	11.137	11.138	-0.001	1360937		50.0000	46.50

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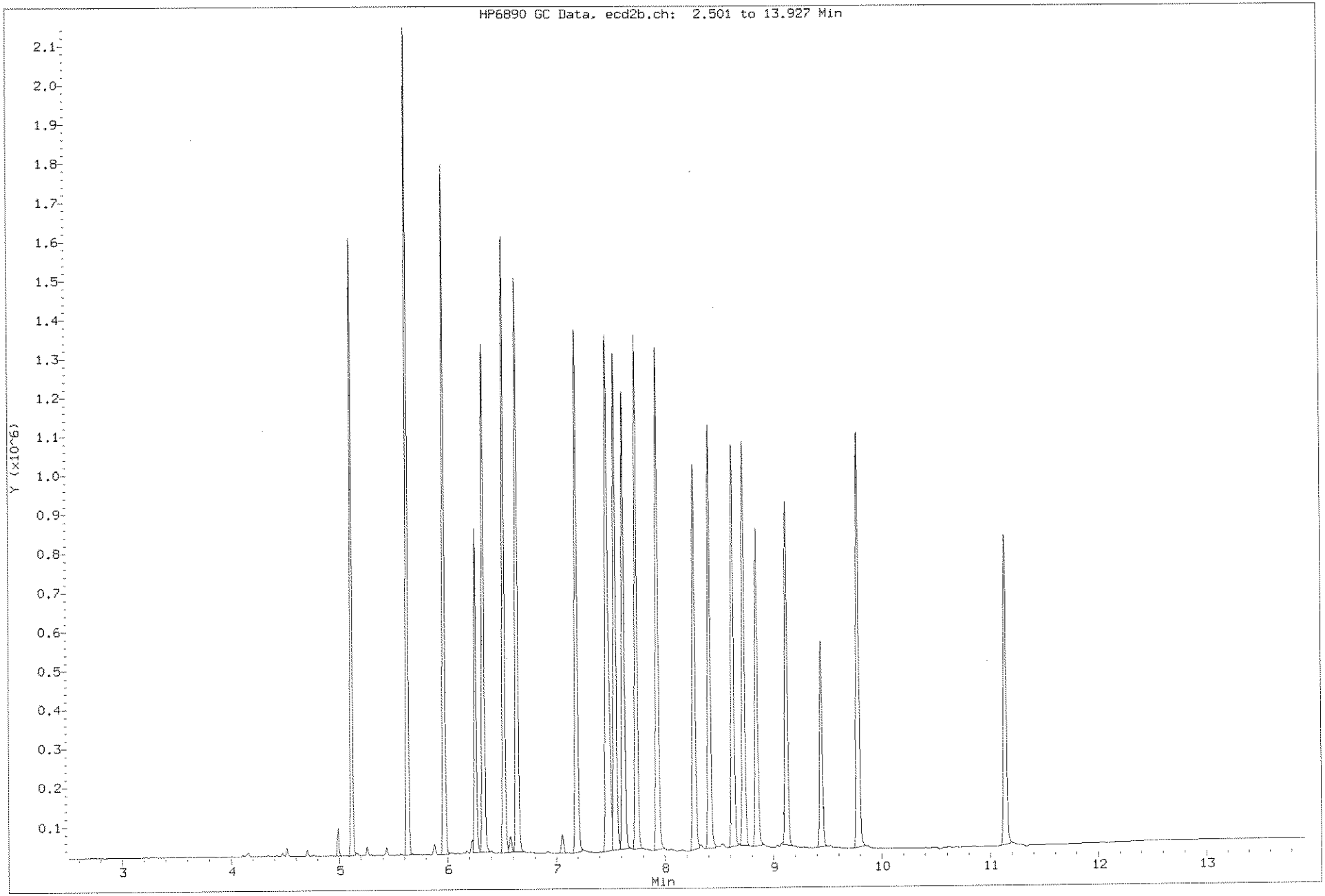
Data File: \\BC\TARGET\chem\ecd3.i\092811.b\007R0701.D
Injection Date: 28-SEP-2011 10:47
Instrument: ecd3.i
Client Sample ID:



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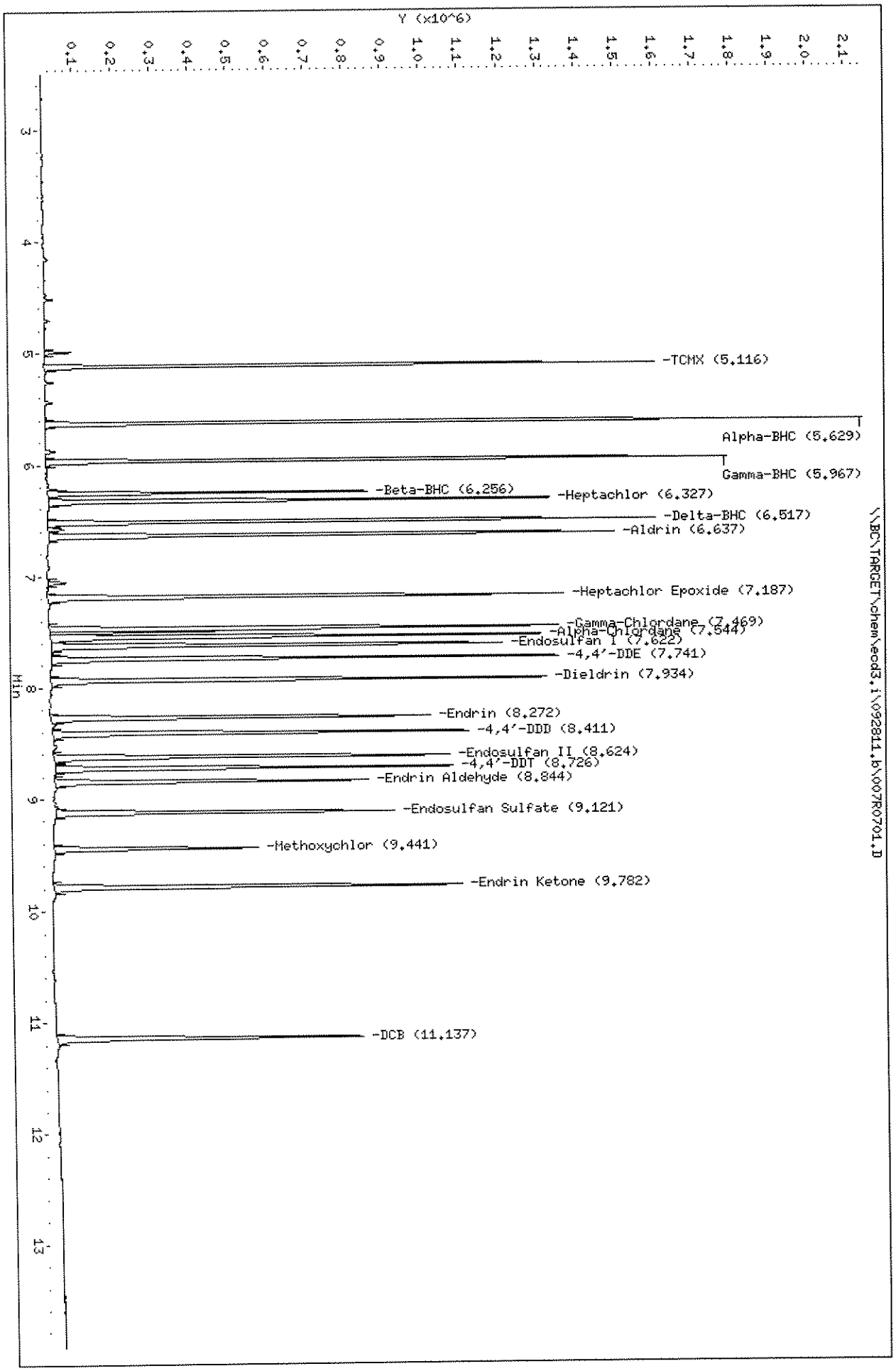
Data File: \\BC\TARGET\chem\ecd3.i\092811.b\007R0701.D
Date : 28-SEP-2011 10:47
Client ID:
Sample Info: SEQ-CAL3
Column phase: ZB MR-2



Instrument: ecd3.i
Operator: EH
Column diameter: 0.32

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Empirical Laboratories, LLC

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Data file : \\BC\TARGET\chem\ecd3.i\092811.b\008R0801.D
Lab Smp Id: SEQ-CAL2
Inj Date : 28-SEP-2011 11:06
Operator : EM Inst ID: ecd3.i
Smp Info : SEQ-CAL2
Misc Info : ;;;;;;INDABD.sub
Comment :
Method : \\BC\TARGET\chem\ecd3.i\092811.b\8081_82R.m
Meth Date : 29-Sep-2011 12:28 jeh Quant Type: ESTD
Cal Date : 10-AUG-2011 19:35 Cal File: 002R0101.D
Als bottle: 8 Calibration Sample, Level: 2
Dil Factor: 1.00000
Integrator: Falcon Compound Sublist: INDABD.sub
Target Version: 4.04
Processing Host: NSH-LAPTOP1

Compounds	RT	EXP RT	DLT RT	RESPONSE	AMOUNTS CAL-AMT (ng/mL)	AMOUNTS ON-COL (ng/mL)
$ 38 TCMX [2C]	5.115	5.116	-0.001	3350419	100.000	95.32
3 Alpha-BHC [2C]	5.629	5.629	0.000	4868460	100.000	98.87
23 Gamma-BHC [2C]	5.967	5.968	-0.001	4368518 X	100.000	98.02
5 Beta-BHC [2C]	6.257	6.258	-0.001	2035088	100.000	89.85
25 Heptachlor [2C]	6.329	6.329	0.000	3758448	100.000	99.38
15 Delta-BHC [2C]	6.517	6.518	-0.001	4152752	100.000	99.95
2 Aldrin [2C]	6.637	6.638	-0.001	4274534	100.000	95.67
26 Heptachlor Epoxide [2C]	7.189	7.189	0.000	3932404 *	100.000	93.91
24 Gamma-Chlordane [2C]	7.470	7.471	-0.001	4239769	100.000	112.3(M)
4 Alpha-Chlordane [2C]	7.545	7.546	-0.001	4022026	100.000	88.35
17 Endosulfan I [2C]	7.624	7.624	0.000	3687812	100.000	94.52
13 4,4'-DDE [2C]	7.742	7.743	-0.001	3849235	100.000	97.14
16 Dieldrin [2C]	7.934	7.934	0.000	4056819	100.000	96.86
20 Endrin [2C]	8.272	8.273	-0.001	3305967	100.000	99.41
12 4,4'-DDD [2C]	8.412	8.413	-0.001	3386013	100.000	98.59
18 Endosulfan II [2C]	8.625	8.625	0.000	3334273	100.000	95.76
14 4,4'-DDT [2C]	8.725	8.726	-0.001	3334909	100.000	104.6
21 Endrin Aldehyde [2C]	8.845	8.846	-0.001	2657456	100.000	97.10
19 Endosulfan Sulfate [2C]	9.122	9.123	-0.001	2930508	100.000	100.3
27 Methoxychlor [2C]	9.440	9.441	-0.001	1722775	100.000	97.43
22 Endrin Ketone [2C]	9.782	9.783	-0.001	3623038	100.000	101.9
$ 39 DCB [2C]	11.137	11.138	-0.001	2735916	100.000	93.48

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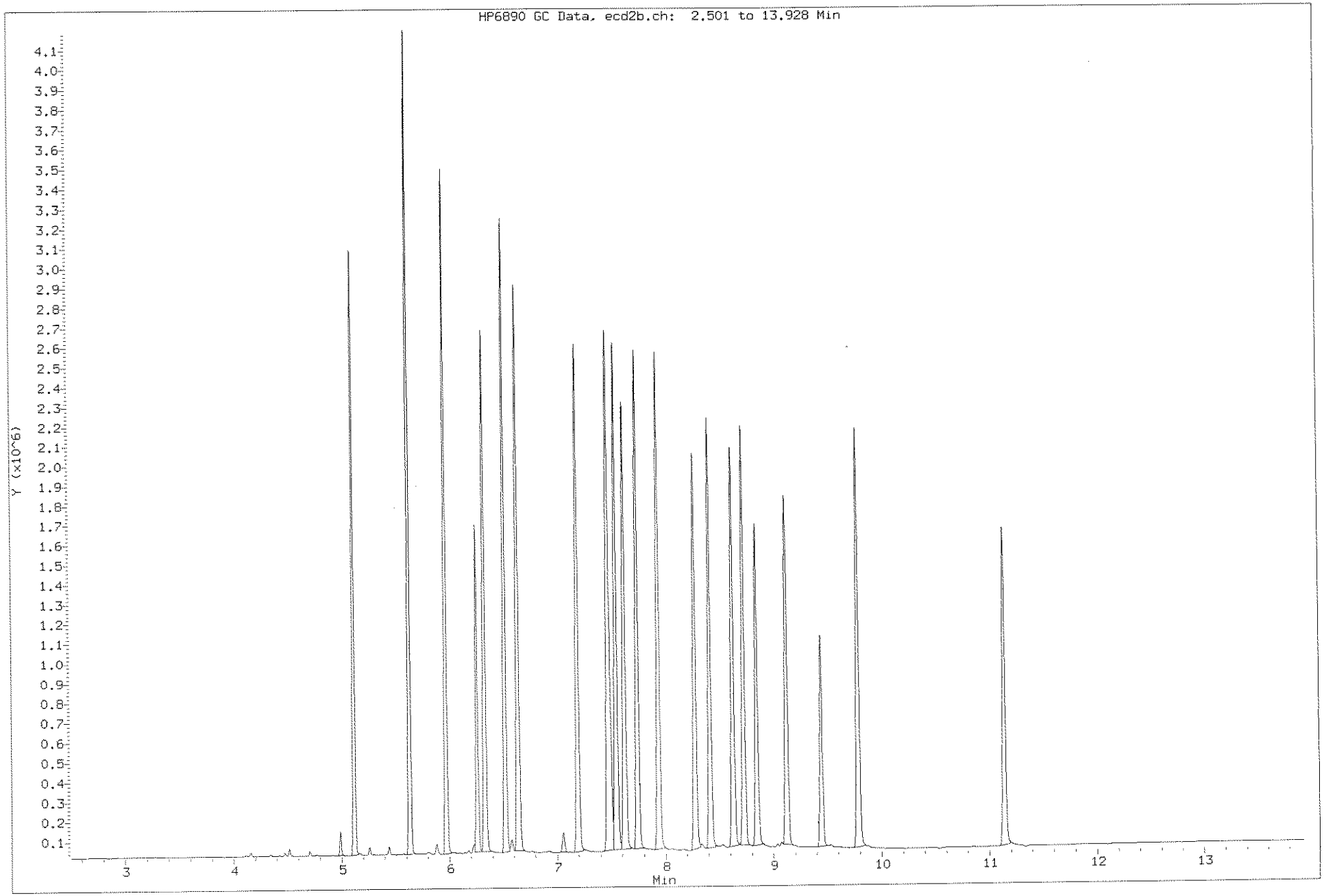
Data File: \\BC\TARGET\chem\ecd3.i\092811.b\008R0801.D
Injection Date: 28-SEP-2011 11:06
Instrument: ecd3.i
Client Sample ID:



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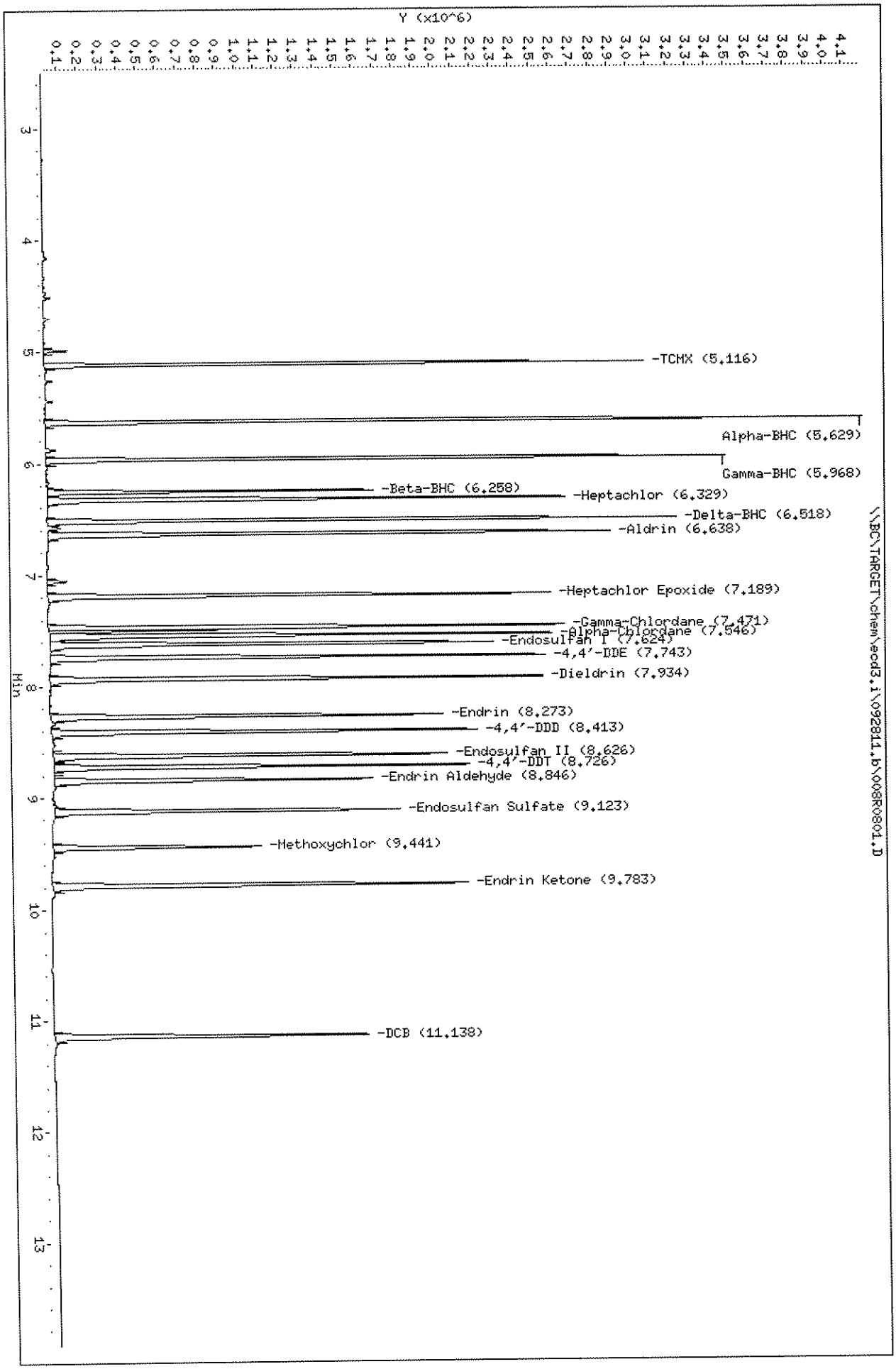
Data File: \\BC\TARGET\chem\ecd3.i\092811.b\008R0801.D
Date : 28-SEP-2011 11:06
Client ID:
Sample Info: SEQ-CAL2
Column phase: ZB MR-2



Instrument: ecd3.i
Operator: EM
Column diameter: 0.32

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Data file : \\BC\TARGET\chem\ecd3.i\092811.b\009R0901.D
Lab Smp Id: SEQ-CAL1
Inj Date : 28-SEP-2011 11:24
Operator : EM Inst ID: ecd3.i
Smp Info : SEQ-CAL1
Misc Info : ;;;;;;INDABD.sub
Comment :
Method : \\BC\TARGET\chem\ecd3.i\092811.b\8081_82R.m
Meth Date : 29-Sep-2011 12:29 jeh Quant Type: ESTD
Cal Date : 10-AUG-2011 19:35 Cal File: 002R0101.D
Als bottle: 9 Calibration Sample, Level: 1
Dil Factor: 1.00000
Integrator: Falcon Compound Sublist: INDABD.sub
Target Version: 4.04
Processing Host: NSH-LAPTOP1

Compounds	RT	EXP RT	DLT RT	RESPONSE	AMOUNTS CAL-AMT (ng/mL)	AMOUNTS ON-COL (ng/mL)
$ 38 TCMX [2C]	5.117	5.116	0.001	6059059	200.000	172.4
3 Alpha-BHC [2C]	5.630	5.629	0.001	9006600 ✓	200.000	182.9
23 Gamma-BHC [2C]	5.968	5.968	0.000	8006525	200.000	179.6
5 Beta-BHC [2C]	6.257	6.258	-0.001	3722122	200.000	164.3
25 Heptachlor [2C]	6.330	6.329	0.001	6733601	200.000	178.0
15 Delta-BHC [2C]	6.518	6.518	0.000	7606928	200.000	183.1
2 Aldrin [2C]	6.638	6.638	0.000	7735116	200.000	173.1
26 Heptachlor Epoxide [2C]	7.188	7.189	-0.001	7088105	200.000	169.3
24 Gamma-Chlordane [2C]	7.472	7.471	0.001	8003850	200.000	212.1(A)
4 Alpha-Chlordane [2C]	7.547	7.546	0.001	7217196	200.000	158.5
17 Endosulfan I [2C]	7.623	7.624	-0.001	6634099	200.000	170.0
13 4,4'-DDE [2C]	7.743	7.743	0.000	6878709	200.000	173.6
16 Dieldrin [2C]	7.935	7.934	0.001	7361626	200.000	175.8
20 Endrin [2C]	8.272	8.273	-0.001	5838301	200.000	175.6
12 4,4'-DDD [2C]	8.412	8.413	-0.001	6090739	200.000	177.4
18 Endosulfan II [2C]	8.625	8.625	0.000	6047946	200.000	173.7
14 4,4'-DDT [2C]	8.725	8.726	-0.001	5914314	200.000	185.4
21 Endrin Aldehyde [2C]	8.845	8.846	-0.001	4806617	200.000	175.6
19 Endosulfan Sulfate [2C]	9.122	9.123	-0.001	5221960	200.000	178.8
27 Methoxychlor [2C]	9.440	9.441	-0.001	2989456 *	200.000	169.1
22 Endrin Ketone [2C]	9.782	9.783	-0.001	6583402	200.000	185.2
$ 39 DCB [2C]	11.138	11.138	0.000	4856148	200.000	165.9

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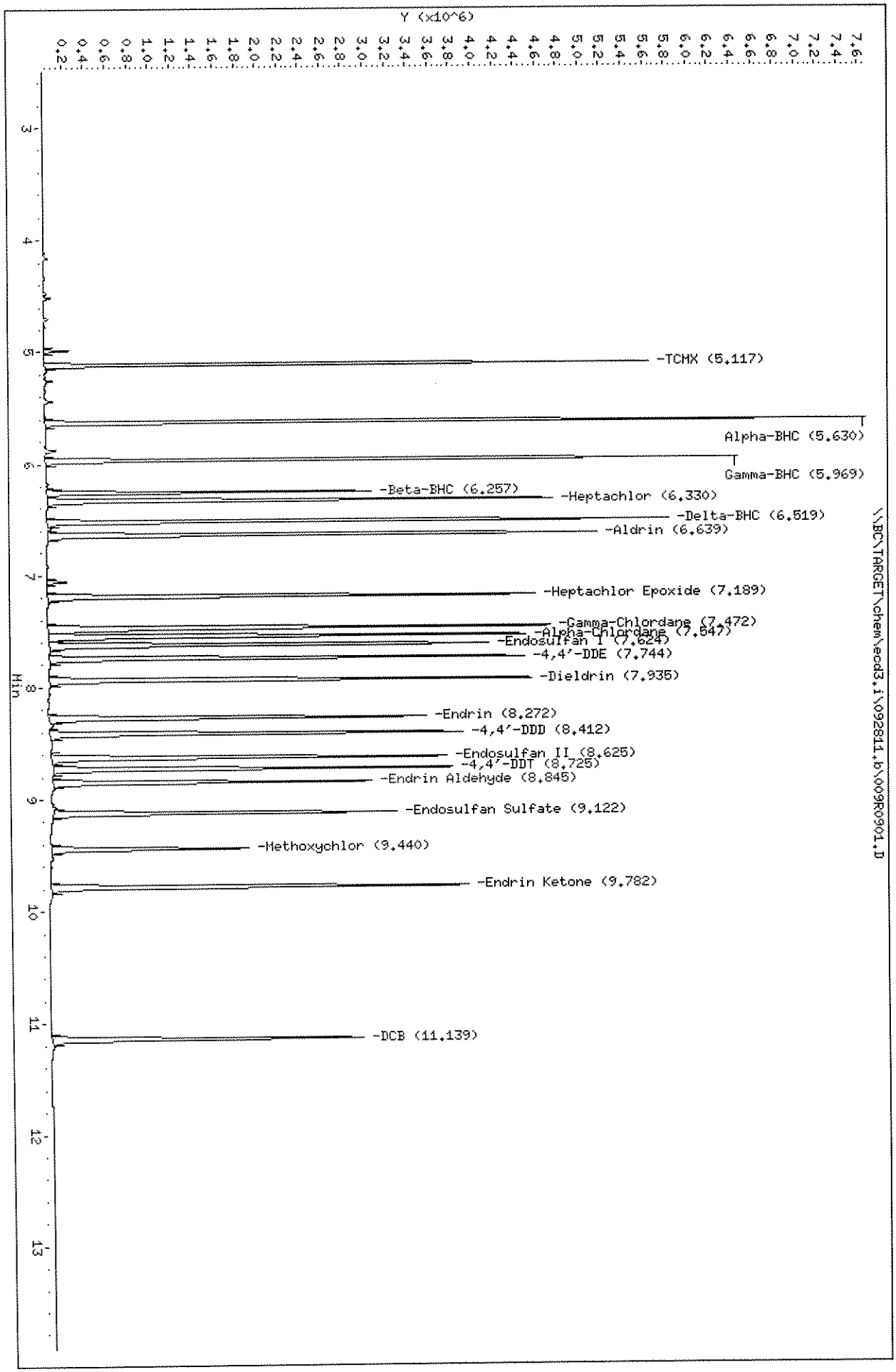
Data File: \\BC\TARGET\chem\ecd3.i\092811.b\009R0901.D
Date : 28-SEP-2011 11:24
Client ID:
Sample Info: SEQ-CAL1

Column phase: ZB MR-2

Instrument: ecd3.i
Operator: EH
Column diameter: 0.32



Sequence: C:\HPCHEM\ECD3\SEQUENCE\093011.S\ECD3\HP.F\8081_82

PG 391

Sequence Table (Front Injector): /BACK

Quantification Part:

EM 210
9.30.11

Line	Location	SampleName	SampleAmount	ISTDAmt	Multiplier	Dilution
1	Vial 1	Pest Primer				
2	Vial 2	SEQ-PEM1	10# 11I0420			
3	Vial 3	SEQ-CAL7	11I0867 ← NOT USED			
4	Vial 4	SEQ-CAL6	11I0868			
5	Vial 5	SEQ-CAL5	11I0869			
6	Vial 6	SEQ-CAL4	11I0839			
7	Vial 7	SEQ-CAL3	11I0840			
8	Vial 8	SEQ-CAL2	11I0841			
9	Vial 9	SEQ-CAL1	11I0842			
10	Vial 10	SEQ-CAL7	11I0877			
11	Vial 11	SEQ-CAL6	— Not using			
12	Vial 12	SEQ-ICV1	11I0871			
13	Vial 13	SEQ-CCV1	11I0419			
14	Vial 14	~~SEQ-CAL7~~	Hex test old Jug			
15	Vial 15	SEQ-CAL7	11I0878			
16	Vial 16	SEQ-ICV1	11I0871			

NOT USED

J.A 10.3.11

Sequence Table (Back Injector):

No entries - empty table!

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Empirical Laboratories, LLC

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Data file : \\BC\TARGET\chem\ecd3.i\093011.b\002F0201.D
Lab Smp Id: SEQ-PEM1
Inj Date : 30-SEP-2011 06:26
Operator : EM Inst ID: ecd3.i
Smp Info : SEQ-PEM1
Misc Info : ;;;;;;PEM.sub
Comment :
Method : \\BC\TARGET\chem\ecd3.i\093011.b\8081_82F.m
Meth Date : 02-Oct-2011 20:01 jeh Quant Type: ESTD
Cal Date : 13-OCT-2010 07:10 Cal File: 016F1601.D
Als bottle: 2
Dil Factor: 1.00000
Integrator: Falcon Compound Sublist: PEM.sub
Target Version: 4.04
Processing Host: NSH-LAPTOP1

Compounds	RT	EXP RT	DLT RT	RESPONSE	CONCENTRATIONS ON-COLUMN (ng/mL)	CONCENTRATIONS FINAL (ng/mL)
3 Alpha-BHC	6.208	6.209	-0.001	90467	1.62705	1.627
23 Gamma-BHC	6.555	6.555	0.000	78690	1.65595	1.656
5 Beta-BHC	6.753	6.754	-0.001	40236	1.85185	1.852
20 Endrin	9.151	9.154	-0.003	324106	9.31745	9.317
14 4,4'-DDT	9.696	9.697	-0.001	527243	18.1784	18.18
12 4,4'-DDD	9.303	9.304	-0.001	21195	0.57816	0.5782
27 Methoxychlor	10.296	10.297	-0.001	685642	43.4473	43.45

10/04/11

%BREAKDOWN:

ENDRIN = Ø

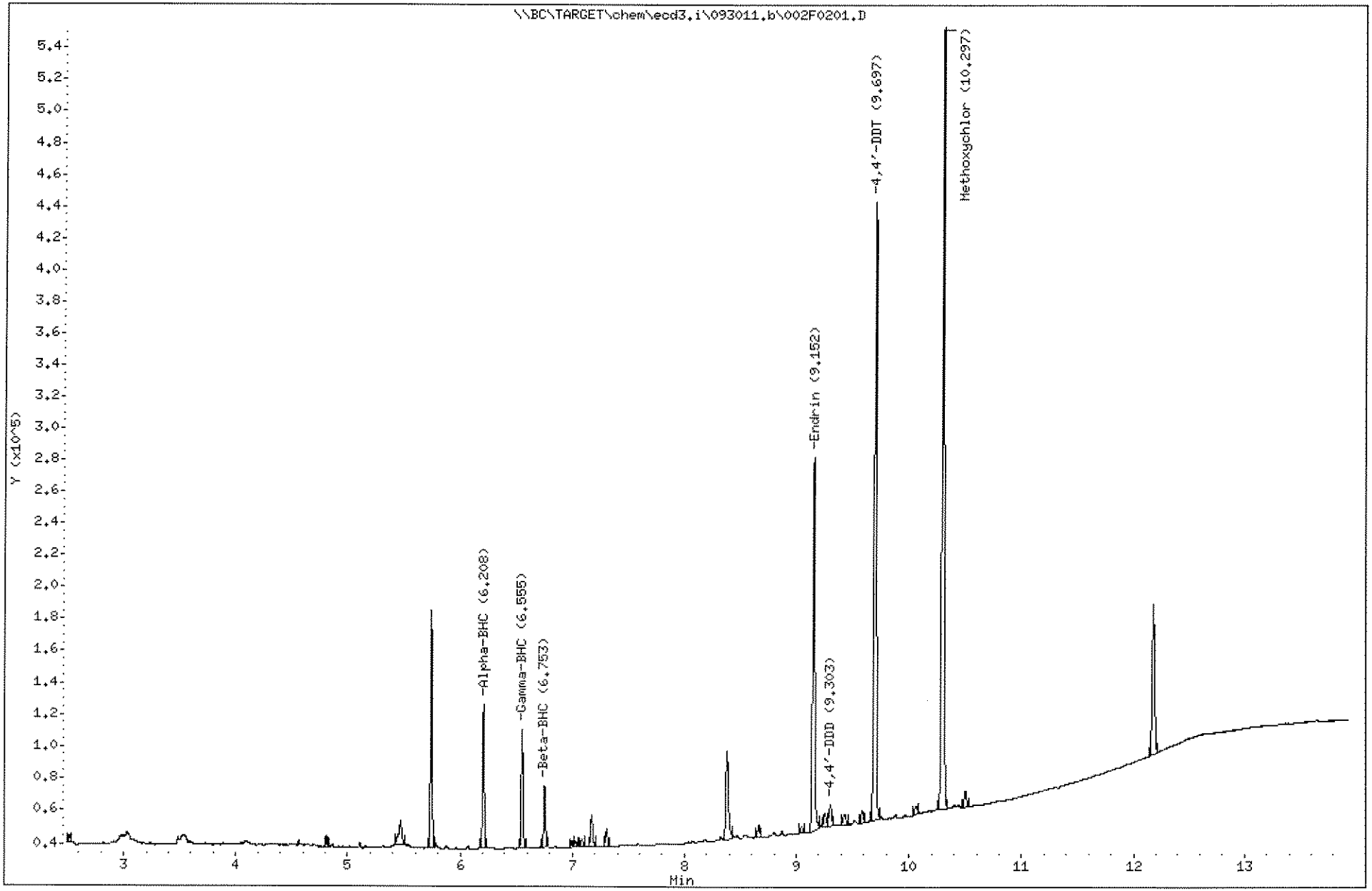
$$DDT = \frac{21195}{527243 + 21195} \times 100 = 3.4\%$$

Data File: \\BC\TARGET\chem\ecd3.i\093011.b\002F0201.D
Date : 30-SEP-2011 06:26
Client ID:
Sample Info: SEQ-PEM1

Column phase: ZB MR-1

Instrument: ecd3.i

Operator: EM
Column diameter: 0.32



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Empirical Laboratories, LLC

SW-846 METHODS 8081A/8082

Data file : \\BC\TARGET\chem\ecd3.i\093011.b\002R0201.D
Lab Smp Id: SEQ-PEM1
Inj Date : 30-SEP-2011 06:26
Operator : EM Inst ID: ecd3.i
Smp Info : SEQ-PEM1
Misc Info : ;;;;;;PEM.sub
Comment :
Method : \\BC\TARGET\chem\ecd3.i\093011.b\8081_82R.m
Meth Date : 02-Oct-2011 20:05 jeh Quant Type: ESTD
Cal Date : 13-OCT-2010 07:10 Cal File: 016R1601.D
Als bottle: 2
Dil Factor: 1.00000
Integrator: Falcon Compound Sublist: PEM.sub
Target Version: 4.04
Processing Host: NSH-LAPTOP1

Compounds	RT	EXP RT	DLT RT	RESPONSE	CONCENTRATIONS ON-COLUMN (ng/mL)	CONCENTRATIONS FINAL (ng/mL)
3 Alpha-BHC [2C]	5.596	5.596	0.000	90842	1.82152	1.822
23 Gamma-BHC [2C]	5.932	5.933	-0.001	78470	1.82388	1.824
5 Beta-BHC [2C]	6.221	6.221	0.000	44290	2.00939	2.009
20 Endrin [2C]	8.229	8.228	0.001	324151	9.58479	9.585
14 4,4'-DDT [2C]	8.682	8.683	-0.001	513956	19.0555	19.06
12 4,4'-DDD [2C]	8.371	8.371	0.000	20773	0.59544	0.5954
27 Methoxychlor [2C]	9.397	9.398	-0.001	629500	42.1396	42.14

10/04/11

%BREAKDOWN:

ENDRIN = Ø

$$DDT = \frac{20773}{513956 + 20773} \times 100 = 3.9\%$$

Data File: \\BC\TARGET\chem\ecd3.i\093011.b\002R0201.D

Date : 30-SEP-2011 06:26

Client ID:

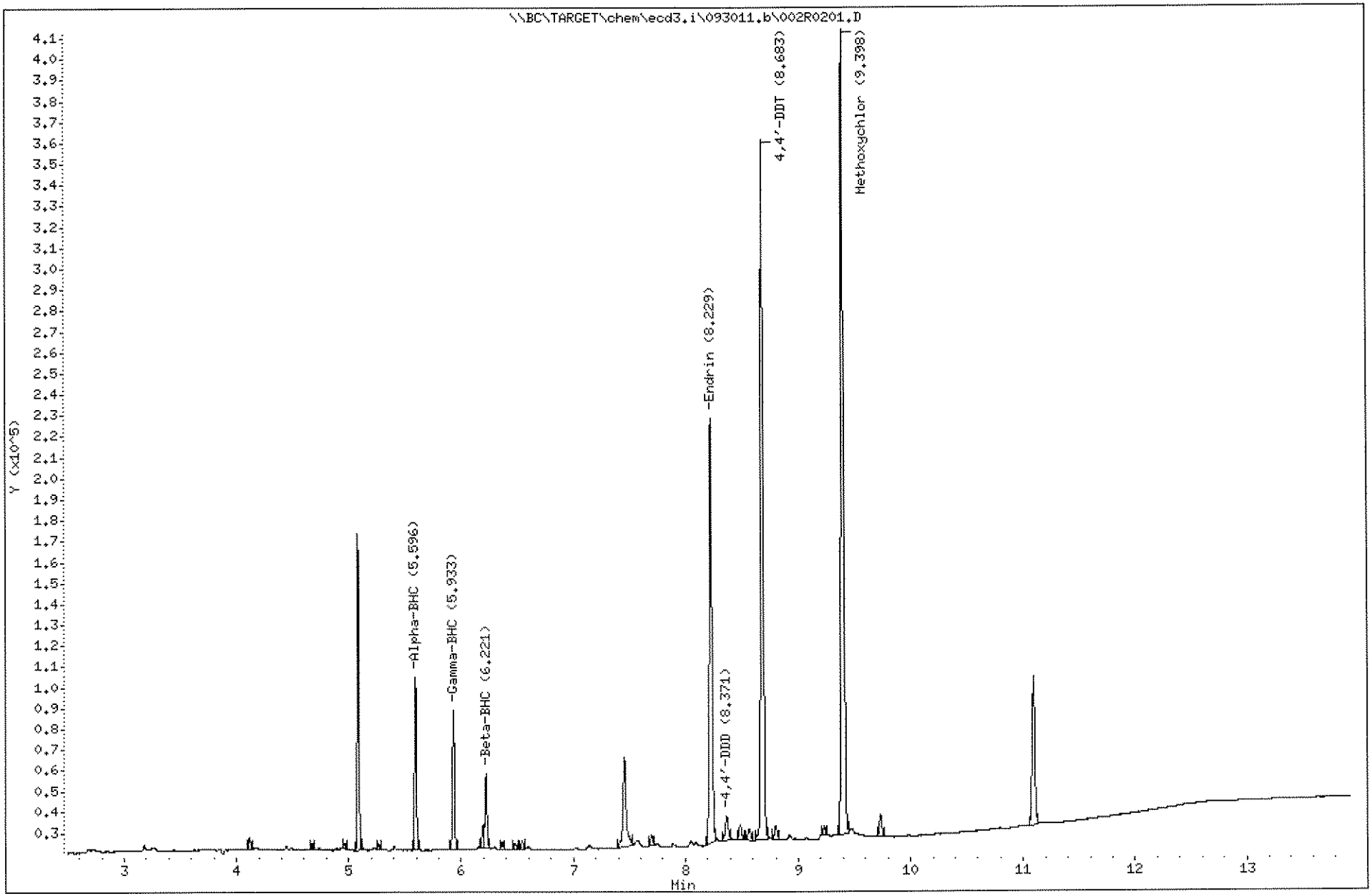
Instrument: ecd3.i

Sample Info: SEQ-PEM1

Operator: EM

Column phase: ZB MR-2

Column diameter: 0.32



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SW-846 METHODS 8081A/8082

Data file : \\BC\TARGET\chem\ecd3.i\093011.b\004F0401.D
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Inj Date : 30-SEP-2011 07:06
Operator : EM Inst ID: ecd3.i
Smp Info : SEQ-CAL6
Misc Info : ;;;;;;INDABD.sub
Comment :
Method : \\BC\TARGET\chem\ecd3.i\093011.b\8081_82F.m
Meth Date : 02-Oct-2011 20:12 jeh Quant Type: ESTD
Cal Date : 13-OCT-2010 07:10 Cal File: 016F1601.D
Als bottle: 4 Calibration Sample, Level: 6
Dil Factor: 1.00000
Integrator: Falcon Compound Sublist: INDABD.sub
Target Version: 4.04
Processing Host: NSH-LAPTOP1

Compounds	RT	EXP RT	DLT RT	RESPONSE	AMOUNTS CAL-AMT (ng/mL)	AMOUNTS ON-COL (ng/mL)
$ 38 TCMX	5.741	5.741	0.000	176765	5.00000	4.692
3 Alpha-BHC	6.207	6.209	-0.002	243446	5.00000	4.378
23 Gamma-BHC	6.554	6.555	-0.001	206933	5.00000	4.355
5 Beta-BHC	6.752	6.754	-0.002	100625	5.00000	4.631
15 Delta-BHC	7.031	7.032	-0.001	188776	5.00000	4.293
25 Heptachlor	7.196	7.197	-0.001	190533	5.00000	4.614
2 Aldrin	7.584	7.585	-0.001	221613	5.00000	4.494
26 Heptachlor Epoxide	8.072	8.074	-0.002	205762	5.00000	4.560
24 Gamma-Chlordane	8.376	8.375	0.001	261086	5.00000	5.138
4 Alpha-Chlordane	8.469	8.470	-0.001	205472	5.00000	4.573
17 Endosulfan I	8.534	8.537	-0.003	191430	5.00000	4.552
13 4,4'-DDE	8.662	8.664	-0.002	202391 *	5.00000	4.505
16 Dieldrin	8.867	8.869	-0.002	201307	5.00000	4.467
20 Endrin	9.152	9.154	-0.002	156805	5.00000	4.508
12 4,4'-DDD	9.304	9.304	0.000	162421	5.00000	4.430
18 Endosulfan II	9.422	9.424	-0.002	168192	5.00000	4.492
21 Endrin Aldehyde	9.584	9.585	-0.001	134022	5.00000	4.508
14 4,4'-DDT	9.696	9.697	-0.001	121117	5.00000	4.176
19 Endosulfan Sulfate	9.879	9.880	-0.001	130113	5.00000	4.360
27 Methoxychlor	10.296	10.297	-0.001	70211	5.00000	4.449
22 Endrin Ketone	10.501	10.500	0.001	170994	5.00000	4.382
$ 39 DCB	12.176	12.175	0.001	181113 X	5.00000	4.840

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Data File: \\BC\TARGET\chem\ecd3.i\093011.b\004F0401.D

Date : 30-SEP-2011 07:06

Client ID:

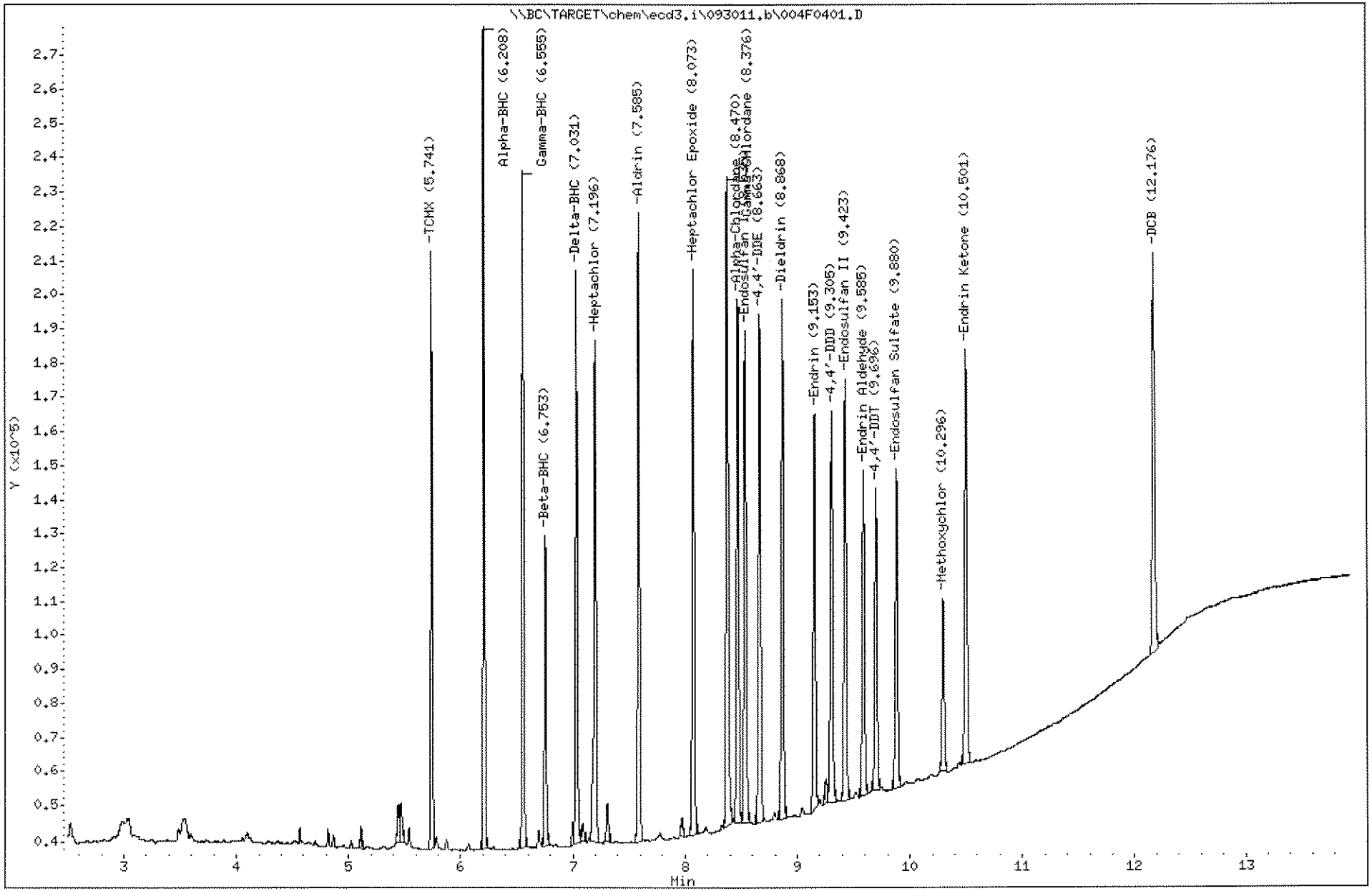
Instrument: ecd3.i

Sample Info: SEQ-CAL6

Operator: EM

Column phase: ZB MR-1

Column diameter: 0.32



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SW-846 METHODS 8081A/8082

Data file : \\BC\TARGET\chem\ecd3.i\093011.b\005F0501.D
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Inj Date : 30-SEP-2011 07:25
Operator : EM Inst ID: ecd3.i
Smp Info : SEQ-CAL5
Misc Info : ;;;;;;INDABD.sub
Comment :
Method : \\BC\TARGET\chem\ecd3.i\093011.b\8081_82F.m
Meth Date : 02-Oct-2011 20:13 jeh Quant Type: ESTD
Cal Date : 13-OCT-2010 07:10 Cal File: 016F1601.D
Als bottle: 5 Calibration Sample, Level: 5
Dil Factor: 1.00000
Integrator: Falcon Compound Sublist: INDABD.sub
Target Version: 4.04
Processing Host: NSH-LAPTOP1

Compounds	RT	EXP RT	DLT RT	RESPONSE	AMOUNTS CAL-AMT (ng/mL)	AMOUNTS ON-COL (ng/mL)
$ 38 TCMX	5.742	5.741	0.001	367556	10.0000	9.756
3 Alpha-BHC	6.207	6.209	-0.002	515869	10.0000	9.278
23 Gamma-BHC	6.556	6.555	0.001	427742	10.0000	9.001
5 Beta-BHC	6.754	6.754	0.000	203179	10.0000	9.351
15 Delta-BHC	7.031	7.032	-0.001	390246	10.0000	8.876
25 Heptachlor	7.196	7.197	-0.001	350321	10.0000	8.483
2 Aldrin	7.584	7.585	-0.001	468451	10.0000	9.499
26 Heptachlor Epoxide	8.074	8.074	0.000	426492	10.0000	9.452
24 Gamma-Chlordane	8.376	8.375	0.001	475636	10.0000	9.361
4 Alpha-Chlordane	8.469	8.470	-0.001	425137	10.0000	9.462
17 Endosulfan I	8.536	8.537	-0.001	397432	10.0000	9.450
13 4,4'-DDE	8.664	8.664	0.000	424882	10.0000	9.458
16 Dieldrin	8.867	8.869	-0.002	424299	10.0000	9.414
20 Endrin	9.152	9.154	-0.002	323497	10.0000	9.300
12 4,4'-DDD	9.302	9.304	-0.002	337133 *	10.0000	9.196
18 Endosulfan II	9.424	9.424	0.000	345081	10.0000	9.215
21 Endrin Aldehyde	9.586	9.585	0.001	274186	10.0000	9.223
14 4,4'-DDT	9.697	9.697	0.000	246138	10.0000	8.486
19 Endosulfan Sulfate	9.879	9.880	-0.001	260929	10.0000	8.743
27 Methoxychlor	10.296	10.297	-0.001	140990	10.0000	8.934
22 Endrin Ketone	10.502	10.500	0.002	347394	10.0000	8.903
$ 39 DCB	12.177	12.175	0.002	357903 ✗	10.0000	9.564

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Data File: \\BC\TARGET\chem\ecd3.i\093011.b\005F0501.D

Date : 30-SEP-2011 07:25

Client ID:

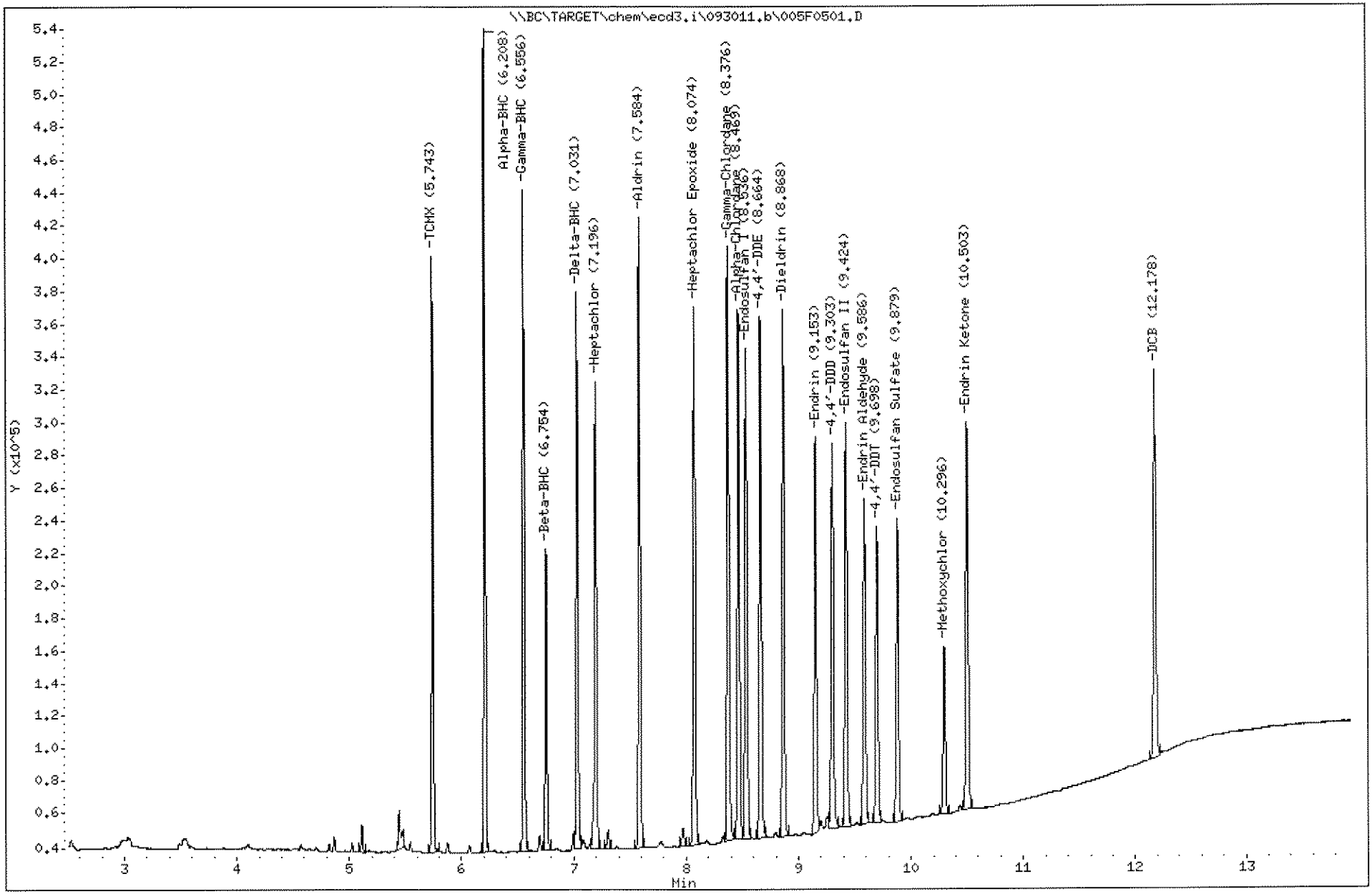
Instrument: ecd3.i

Sample Info: SEQ-CAL5

Operator: EM

Column phase: ZB MR-1

Column diameter: 0.32



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Data file : \\BC\TARGET\chem\ecd3.i\093011.b\006F0601.D
Lab Smp Id: SEQ-CAL4
Inj Date : 30-SEP-2011 07:44
Operator : EM Inst ID: ecd3.i
Smp Info : SEQ-CAL4
Misc Info : ;;;;;;INDABD.sub
Comment :
Method : \\BC\TARGET\chem\ecd3.i\093011.b\8081_82F.m
Meth Date : 02-Oct-2011 20:13 jeh Quant Type: ESTD
Cal Date : 13-OCT-2010 07:10 Cal File: 016F1601.D
Als bottle: 6 Calibration Sample, Level: 4
Dil Factor: 1.00000
Integrator: Falcon Compound Sublist: INDABD.sub
Target Version: 4.04
Processing Host: NSH-LAPTOP1

Compounds	RT	EXP RT	DLT RT	RESPONSE	AMOUNTS CAL-AMT (ng/mL)	AMOUNTS ON-COL (ng/mL)
$ 38 TCMX	5.742	5.741	0.001	948730	25.0000	25.18
3 Alpha-BHC	6.207	6.209	-0.002	1407004	25.0000	25.30
23 Gamma-BHC	6.555	6.555	0.000	1179046	25.0000	24.81
5 Beta-BHC	6.754	6.754	0.000	529522 *	25.0000	24.37
15 Delta-BHC	7.032	7.032	0.000	1089560	25.0000	24.78
25 Heptachlor	7.197	7.197	0.000	958806	25.0000	23.22
2 Aldrin	7.585	7.585	0.000	1247603	25.0000	25.30
26 Heptachlor Epoxide	8.074	8.074	0.000	1119938	25.0000	24.82
24 Gamma-Chlordane	8.375	8.375	0.000	1172965	25.0000	23.08
4 Alpha-Chlordane	8.470	8.470	0.000	1110591	25.0000	24.72
17 Endosulfan I	8.537	8.537	0.000	1044954	25.0000	24.85
13 4,4'-DDE	8.664	8.664	0.000	1120855	25.0000	24.95
16 Dieldrin	8.867	8.869	-0.002	1129880	25.0000	25.07
20 Endrin	9.152	9.154	-0.002	867702	25.0000	24.94(M)
12 4,4'-DDD	9.304	9.304	0.000	882831	25.0000	24.08
18 Endosulfan II	9.424	9.424	0.000	905772	25.0000	24.19
21 Endrin Aldehyde	9.585	9.585	0.000	715159	25.0000	24.06
14 4,4'-DDT	9.697	9.697	0.000	679605	25.0000	23.43
19 Endosulfan Sulfate	9.880	9.880	0.000	687406	25.0000	23.03
27 Methoxychlor	10.297	10.297	0.000	360964	25.0000	22.87
22 Endrin Ketone	10.500	10.500	0.000	912003	25.0000	23.37
$ 39 DCB	12.177	12.175	0.002	872584 X	25.0000	23.32

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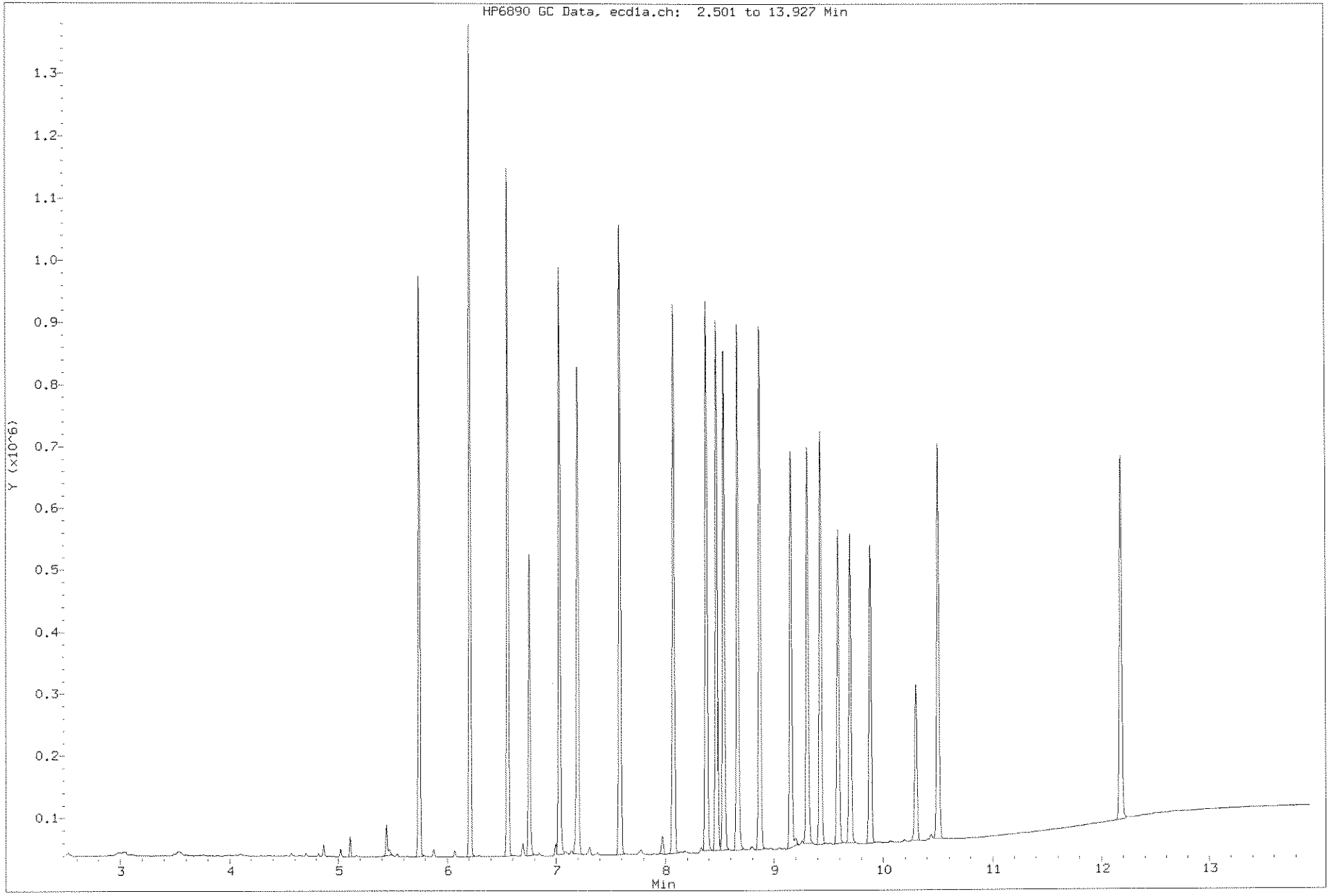
Data File: \\BC\TARGET\chem\ecd3.i\093011.b\006F0601.D
Injection Date: 30-SEP-2011 07:44
Instrument: ecd3.i
Client Sample ID:



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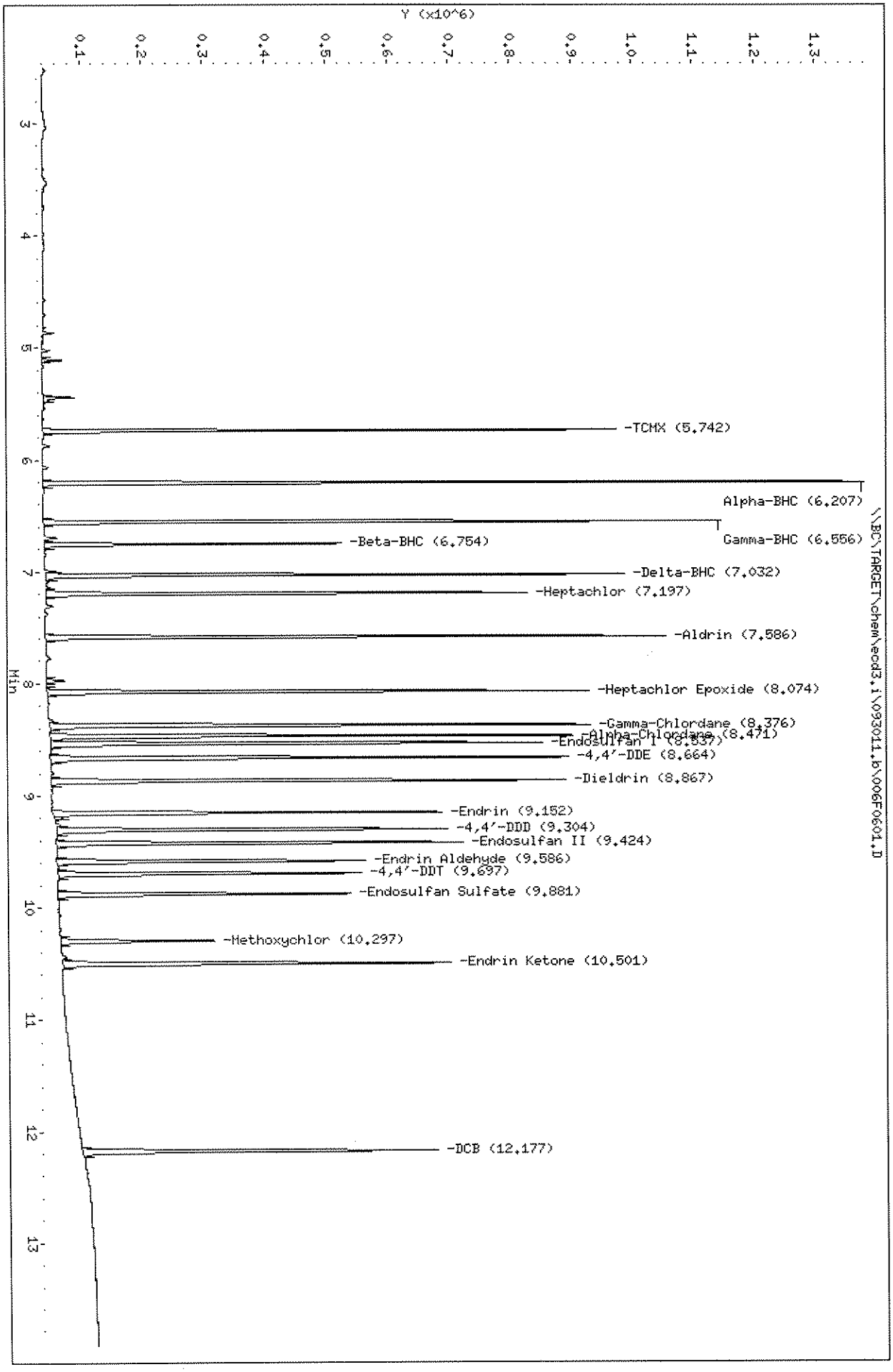
Data File: \\BC\TARGET\chem\ecd3.i\093011.b\006F0601.D
Date : 30-SEP-2011 07:44
Client ID:
Sample Info: SEQ-CAL4
Column phase: ZB MR-1



Instrument: ecd3.i
Operator: EM
Column diameter: 0.32

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Data file : \\BC\TARGET\chem\ecd3.i\093011.b\007F0701.D
Lab Smp Id: SEQ-CAL3
Inj Date : 30-SEP-2011 08:02
Operator : EM Inst ID: ecd3.i
Smp Info : SEQ-CAL3
Misc Info : ;;;;;;INDABD.sub
Comment :
Method : \\BC\TARGET\chem\ecd3.i\093011.b\8081_82F.m
Meth Date : 02-Oct-2011 20:14 jeh Quant Type: ESTD
Cal Date : 13-OCT-2010 07:10 Cal File: 016F1601.D
Als bottle: 7 Calibration Sample, Level: 3
Dil Factor: 1.00000
Integrator: Falcon Compound Sublist: INDABD.sub
Target Version: 4.04
Processing Host: NSH-LAPTOP1

Compounds	RT	EXP RT	DLT RT	RESPONSE	AMOUNTS CAL-AMT (ng/mL)	AMOUNTS ON-COL (ng/mL)
$ 38 TCMX	5.742	5.741	0.001	1848124	50.0000	49.06
3 Alpha-BHC	6.208	6.209	-0.001	2826996	50.0000	50.84
23 Gamma-BHC	6.555	6.555	0.000	2400827	50.0000	50.52
5 Beta-BHC	6.753	6.754	-0.001	1042989	50.0000	48.00
15 Delta-BHC	7.032	7.032	0.000	2255381	50.0000	51.30
25 Heptachlor	7.197	7.197	0.000	1989878	50.0000	48.18
2 Aldrin	7.585	7.585	0.000	2472827	50.0000	50.14
26 Heptachlor Epoxide	8.073	8.074	-0.001	2214675	50.0000	49.08
24 Gamma-Chlordane	8.377	8.375	0.002	2334325	50.0000	45.94
4 Alpha-Chlordane	8.470	8.470	0.000	2194587 *	50.0000	48.84
17 Endosulfan I	8.537	8.537	0.000	2066309	50.0000	49.13
13 4,4'-DDE	8.663	8.664	-0.001	2221695	50.0000	49.45
16 Dieldrin	8.868	8.869	-0.001	2252345	50.0000	49.98
20 Endrin	9.153	9.154	-0.001	1750725	50.0000	50.33(M)
12 4,4'-DDD	9.303	9.304	-0.001	1786343	50.0000	48.73
18 Endosulfan II	9.423	9.424	-0.001	1824819	50.0000	48.73
21 Endrin Aldehyde	9.585	9.585	0.000	1443630	50.0000	48.56
14 4,4'-DDT	9.697	9.697	0.000	1473231	50.0000	50.79
19 Endosulfan Sulfate	9.880	9.880	0.000	1463121	50.0000	49.02
27 Methoxychlor	10.297	10.297	0.000	765846	50.0000	48.53
22 Endrin Ketone	10.500	10.500	0.000	1898935	50.0000	48.67
$ 39 DCB	12.177	12.175	0.002	1701309 X	50.0000	45.46

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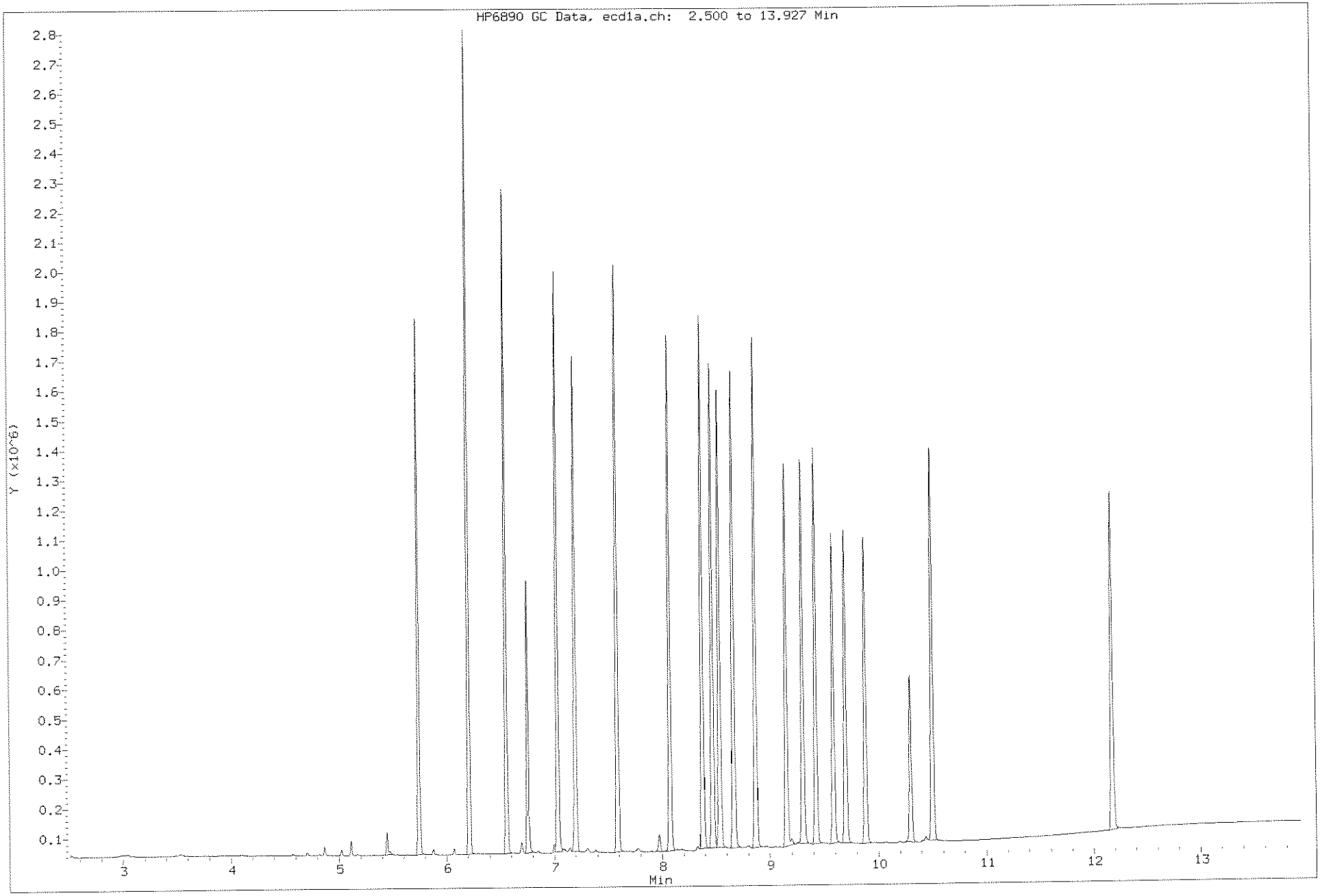
Data File: \\BC\TARGET\chem\ecd3.i\093011.b\007F0701.D
Injection Date: 30-SEP-2011 08:02
Instrument: ecd3.i
Client Sample ID:



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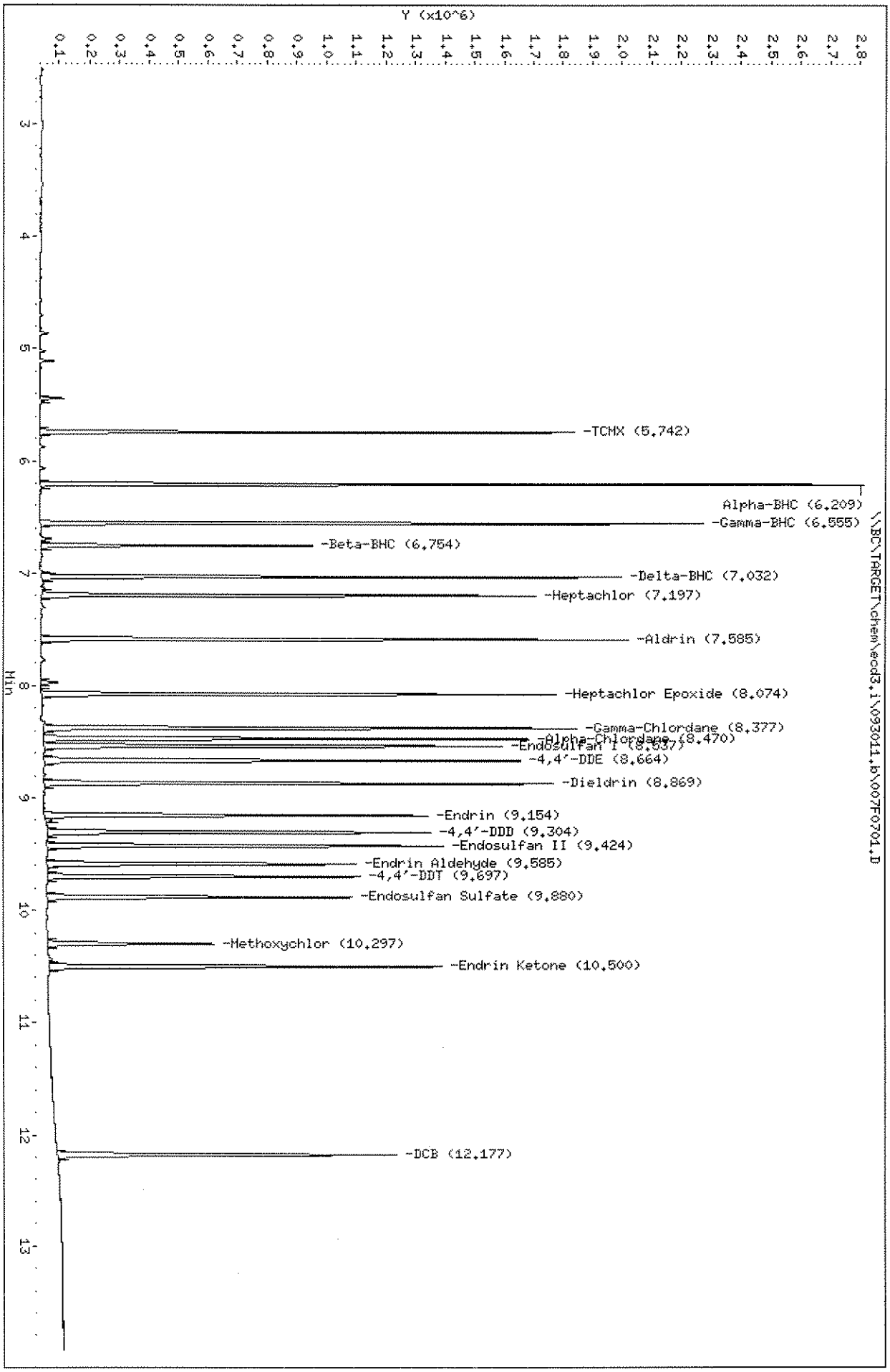
Data File: \\BC\TARGET\chem\ecd3.i\093011.b\007F0701.D
Date : 30-SEP-2011 08:02
Client ID:
Sample Info: SEQ-CAL3
Column phase: ZB MR-1



Instrument: ecd3.i
Operator: EM
Column diameter: 0.32

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SW-846 METHODS 8081A/8082

Data file : \\BC\TARGET\chem\ecd3.i\093011.b\008F0801.D
Lab Smp Id: SEQ-CAL2
Inj Date : 30-SEP-2011 08:21
Operator : EM Inst ID: ecd3.i
Smp Info : SEQ-CAL2
Misc Info : ;;;;;;INDABD.sub
Comment :
Method : \\BC\TARGET\chem\ecd3.i\093011.b\8081_82F.m
Meth Date : 02-Oct-2011 20:14 jeh Quant Type: ESTD
Cal Date : 13-OCT-2010 07:10 Cal File: 016F1601.D
Als bottle: 8 Calibration Sample, Level: 2
Dil Factor: 1.00000
Integrator: Falcon Compound Sublist: INDABD.sub
Target Version: 4.04
Processing Host: NSH-LAPTOP1

Compounds	RT	EXP RT	DLT RT	RESPONSE	AMOUNTS CAL-AMT (ng/mL)	AMOUNTS ON-COL (ng/mL)
$ 38 TCMX	5.741	5.741	0.000	3758137	100.000	99.75
3 Alpha-BHC	6.208	6.209	-0.001	5914174 *	100.000	106.4
23 Gamma-BHC	6.555	6.555	0.000	5055119	100.000	106.4
5 Beta-BHC	6.753	6.754	-0.001	2145138	100.000	98.73
15 Delta-BHC	7.031	7.032	-0.001	4789924	100.000	108.9
25 Heptachlor	7.196	7.197	-0.001	4276590	100.000	103.6
2 Aldrin	7.585	7.585	0.000	5080755	100.000	103.0
26 Heptachlor Epoxide	8.073	8.074	-0.001	4542971	100.000	100.7
24 Gamma-Chlordane	8.375	8.375	0.000	4748304	100.000	93.45
4 Alpha-Chlordane	8.470	8.470	0.000	4509412	100.000	100.4
17 Endosulfan I	8.536	8.537	-0.001	4251496	100.000	101.1
13 4,4'-DDE	8.663	8.664	-0.001	4594105	100.000	102.3
16 Dieldrin	8.868	8.869	-0.001	4653915	100.000	103.3
20 Endrin	9.153	9.154	-0.001	3637190	100.000	104.6(M)
12 4,4'-DDD	9.303	9.304	-0.001	3747442	100.000	102.2
18 Endosulfan II	9.423	9.424	-0.001	3784396	100.000	101.1
21 Endrin Aldehyde	9.585	9.585	0.000	2981640	100.000	100.3
14 4,4'-DDT	9.696	9.697	-0.001	3224383	100.000	111.2
19 Endosulfan Sulfate	9.880	9.880	0.000	3116651	100.000	104.4
27 Methoxychlor	10.296	10.297	-0.001	1626270	100.000	103.0
22 Endrin Ketone	10.500	10.500	0.000	4000448	100.000	102.5
$ 39 DCB	12.175	12.175	0.000	3444706 X	100.000	92.05

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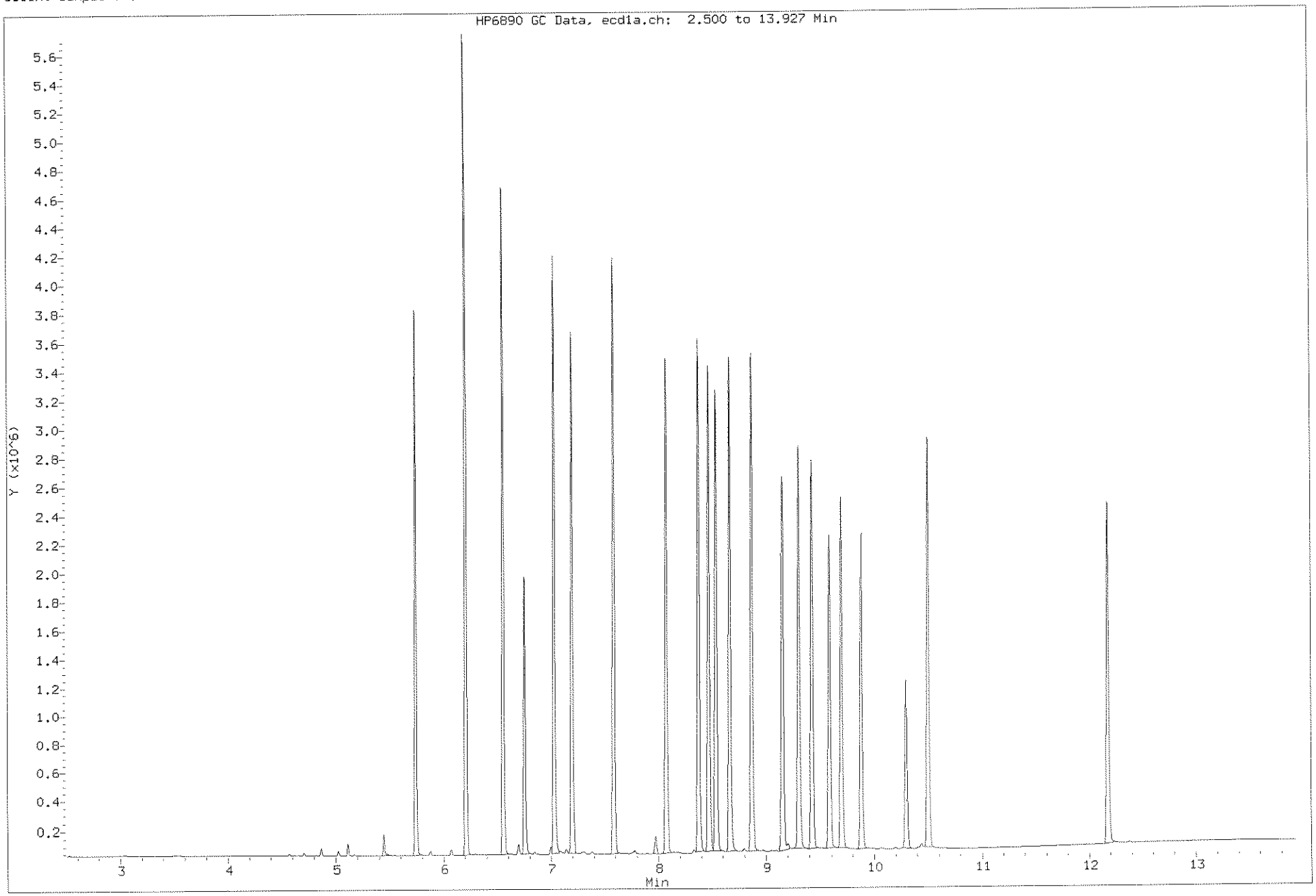
Data File: \\BC\TARGET\chem\ecd3.i\093011.b\008F0801.D
Injection Date: 30-SEP-2011 08:21
Instrument: ecd3.i
Client Sample ID:



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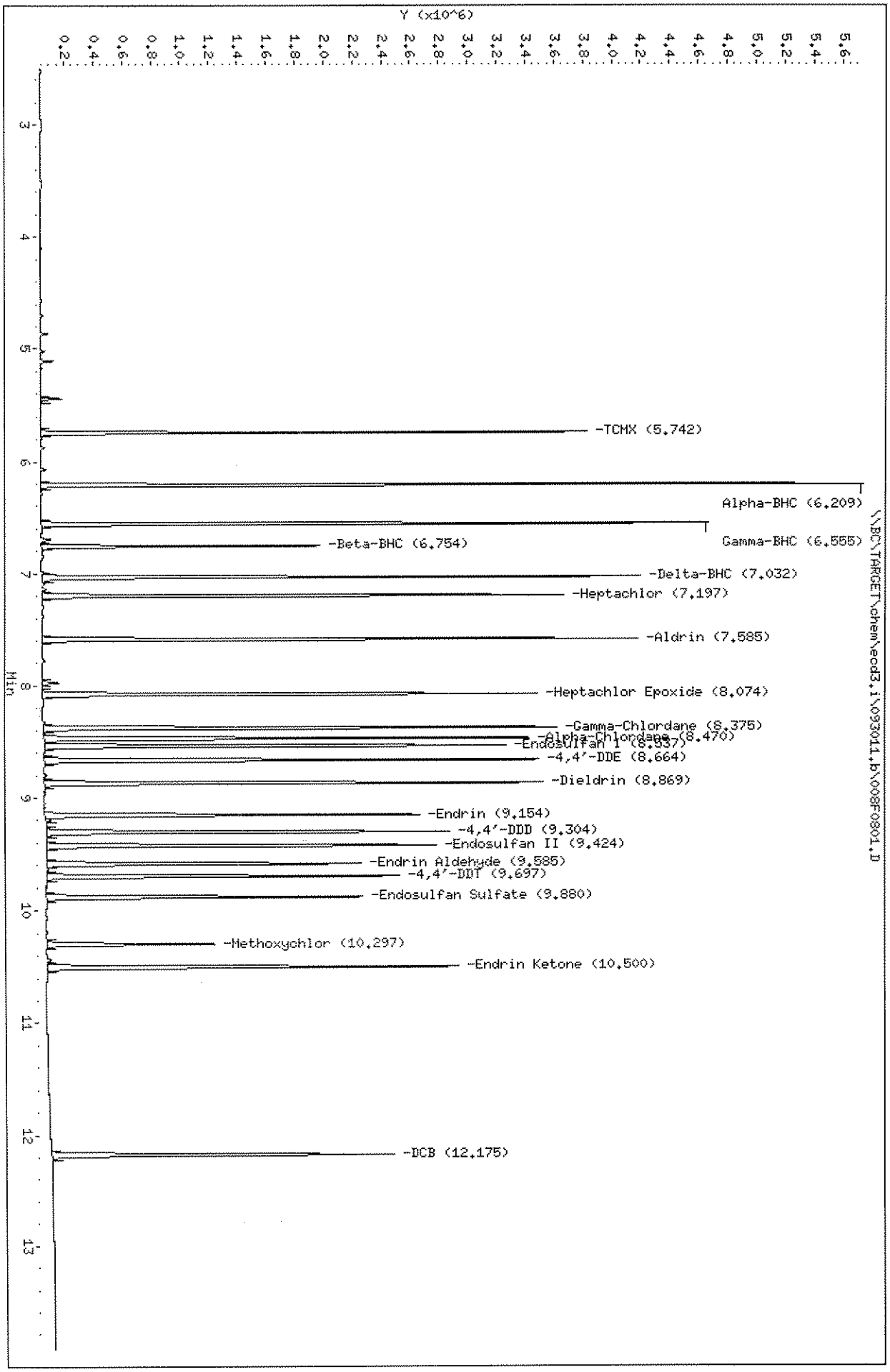
Data File: \\BC\TARGET\chem\ecd3.i\093011.b\008F0801.D
Date : 30-SEP-2011 08:21
Client ID:
Sample Info: SEQ-CAL2
Column phase: ZB MR-1

Instrument: ecd3.i
Operator: EH
Column diameter: 0.32



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Data file : \\BC\TARGET\chem\ecd3.i\093011.b\009F0901.D
Lab Smp Id: SEQ-CAL1
Inj Date : 30-SEP-2011 08:40
Operator : EM Inst ID: ecd3.i
Smp Info : SEQ-CAL1
Misc Info : ;;;;;;INDABD.sub
Comment :
Method : \\BC\TARGET\chem\ecd3.i\093011.b\8081_82F.m
Meth Date : 02-Oct-2011 20:15 jeh Quant Type: ESTD
Cal Date : 13-OCT-2010 07:10 Cal File: 016F1601.D
Als bottle: 9 Calibration Sample, Level: 1
Dil Factor: 1.00000
Integrator: Falcon Compound Sublist: INDABD.sub
Target Version: 4.04
Processing Host: NSH-LAPTOP1

Compounds	RT	EXP RT	DLT RT	RESPONSE	AMOUNTS CAL-AMT (ng/mL)	AMOUNTS ON-COL (ng/mL)
$ 38 TCMX	5.743	5.741	0.002	7621258	200.000	202.3(A)
3 Alpha-BHC	6.210	6.209	0.001	12426525	200.000	223.5(A)
23 Gamma-BHC	6.556	6.555	0.001	10687863	200.000	224.9(A)
5 Beta-BHC	6.755	6.754	0.001	4382012	200.000	201.7(A)
15 Delta-BHC	7.031	7.032	-0.001	10082301	200.000	229.3(A)
25 Heptachlor	7.196	7.197	-0.001	9239777	200.000	223.7(A)
2 Aldrin	7.586	7.585	0.001	10345172 *	200.000	209.8(A)
26 Heptachlor Epoxide	8.075	8.074	0.001	9232564	200.000	204.6(A)
24 Gamma-Chlordane	8.376	8.375	0.001	9734095	200.000	191.6
4 Alpha-Chlordane	8.470	8.470	0.000	9214475	200.000	205.1(A)
17 Endosulfan I	8.538	8.537	0.001	8656494	200.000	205.8(A)
13 4,4'-DDE	8.663	8.664	-0.001	9453690	200.000	210.4(A)
16 Dieldrin	8.868	8.869	-0.001	9525587	200.000	211.4(A)
20 Endrin	9.153	9.154	-0.001	7567540	200.000	217.6(AM)
12 4,4'-DDD	9.303	9.304	-0.001	7830524	200.000	213.6(A)
18 Endosulfan II	9.423	9.424	-0.001	7834711	200.000	209.2(A)
21 Endrin Aldehyde	9.585	9.585	0.000	6206262	200.000	208.8(A)
14 4,4'-DDT	9.696	9.697	-0.001	7238167	200.000	249.6(A)
19 Endosulfan Sulfate	9.880	9.880	0.000	6704317	200.000	224.6(A)
27 Methoxychlor	10.296	10.297	-0.001	3622950	200.000	229.6(A)
22 Endrin Ketone	10.501	10.500	0.001	8514092	200.000	218.2(A)
$ 39 DCB	12.176	12.175	0.001	7129588 X	200.000	190.5

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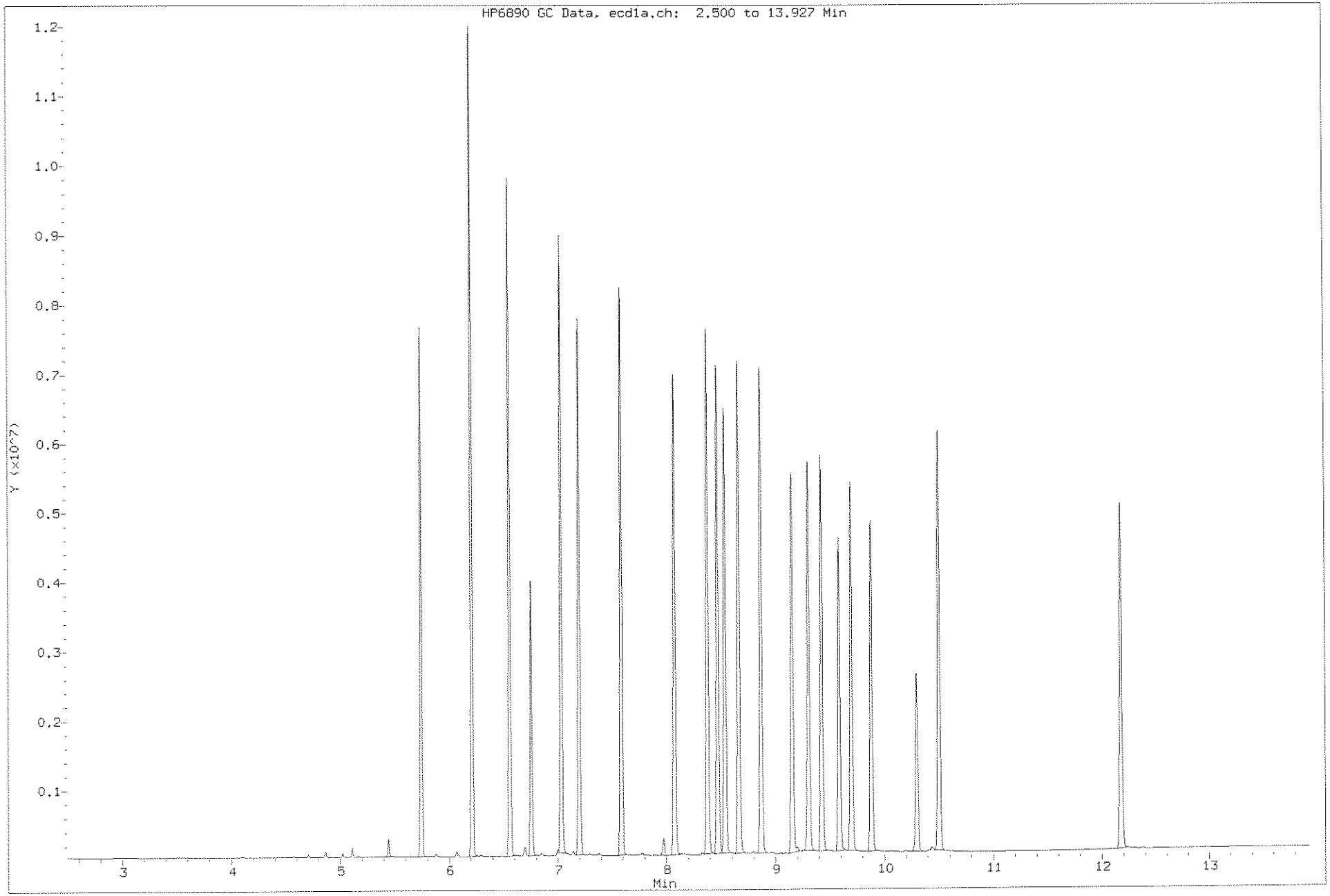
Data File: \\BC\TARGET\chem\ecd3.i\093011.b\009F0901.D
Injection Date: 30-SEP-2011 08:40
Instrument: ecd3.i
Client Sample ID:



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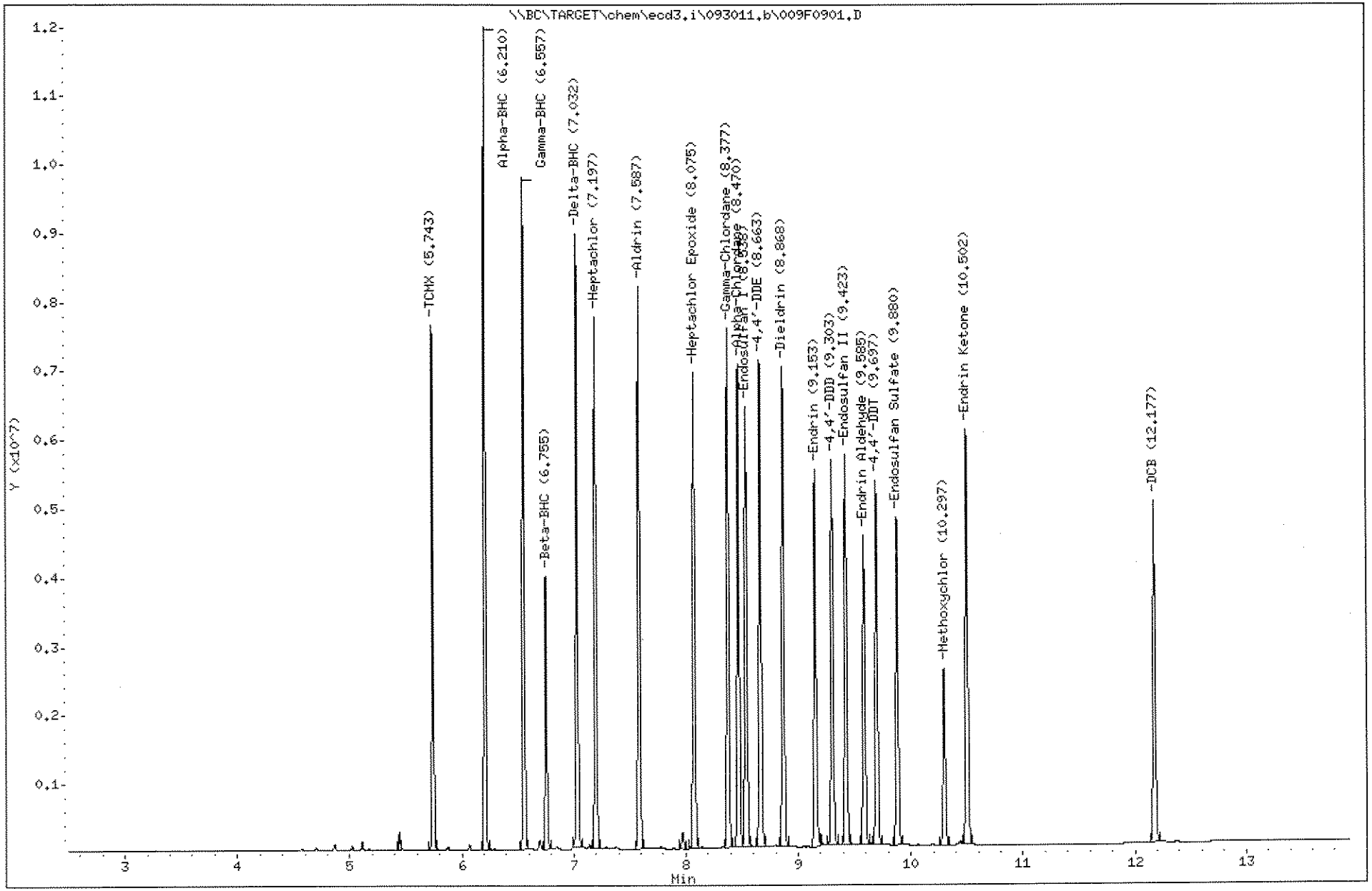
Data File: \\BC\TARGET\chem\ecd3.i\093011.b\009F0901.D
Date : 30-SEP-2011 08:40
Client ID:
Sample Info: SEQ-CAL1

Column phase: ZB MR-1

Instrument: ecd3.i

Operator: EM
Column diameter: 0.32

10/04/11



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SW-846 METHODS 8081A/8082

Data file : \\BC\TARGET\chem\ecd3.i\093011.b\015F1501.D
Lab Smp Id: SEQ-CAL7
Inj Date : 30-SEP-2011 11:18
Operator : EM Inst ID: ecd3.i
Smp Info : SEQ-CAL7
Misc Info : ;;;;;;INDABD.sub
Comment :
Method : \\BC\TARGET\chem\ecd3.i\093011.b\8081_82F.m
Meth Date : 02-Oct-2011 20:15 jeh Quant Type: ESTD
Cal Date : 13-OCT-2010 07:10 Cal File: 016F1601.D
Als bottle: 15 Calibration Sample, Level: 7
Dil Factor: 1.00000
Integrator: Falcon Compound Sublist: INDABD.sub
Target Version: 4.04
Processing Host: NSH-LAPTOP1

Compounds	RT	EXP RT	DLT RT	RESPONSE	AMOUNTS CAL-AMT (ng/mL)	AMOUNTS ON-COL (ng/mL)
$ 38 TCMX	5.742	5.741	0.001	41012	1.00000	1.088
3 Alpha-BHC	6.207	6.209	-0.002	54842	1.00000	0.9863
23 Gamma-BHC	6.553	6.555	-0.002	49307	1.00000	1.038
5 Beta-BHC	6.753	6.754	-0.001	26247	1.00000	1.208
15 Delta-BHC	7.030	7.032	-0.002	43997	1.00000	1.001
25 Heptachlor	7.195	7.197	-0.002	48824	1.00000	1.182
2 Aldrin	7.583	7.585	-0.002	52150	1.00000	1.057
26 Heptachlor Epoxide	8.072	8.074	-0.002	51362	1.00000	1.138
24 Gamma-Chlordane	8.375	8.375	0.000	66140	1.00000	1.302
4 Alpha-Chlordane	8.468	8.470	-0.002	51437	1.00000	1.145
17 Endosulfan I	8.535	8.537	-0.002	47441	1.00000	1.128
13 4,4'-DDE	8.663	8.664	-0.001	49024	1.00000	1.091
16 Dieldrin	8.865	8.869	-0.004	48381	1.00000	1.073
20 Endrin	9.152	9.154	-0.002	35851	1.00000	1.031
12 4,4'-DDD	9.302	9.304	-0.002	42751	1.00000	1.166
18 Endosulfan II	9.423	9.424	-0.001	44229	1.00000	1.181
21 Endrin Aldehyde	9.583	9.585	-0.002	35541	1.00000	1.196
14 4,4'-DDT	9.695	9.697	-0.002	29106 *	1.00000	1.004
19 Endosulfan Sulfate	9.878	9.880	-0.002	35347	1.00000	1.184
27 Methoxychlor	10.295	10.297	-0.002	18193	1.00000	1.153
22 Endrin Ketone	10.500	10.500	0.000	47164	1.00000	1.209
$ 39 DCB	12.175	12.175	0.000	50907 X	1.00000	1.360

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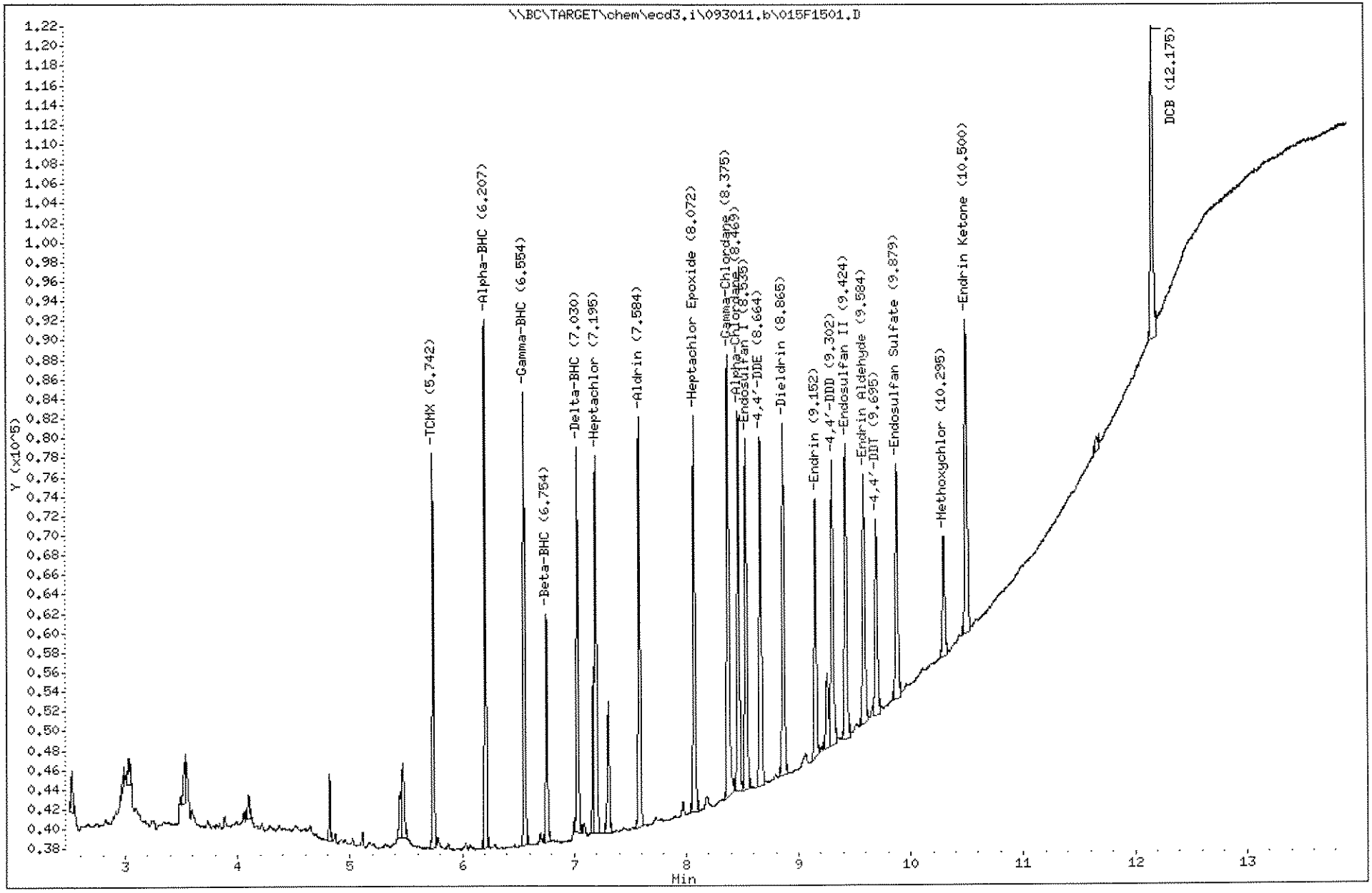
Data File: \\BC\TARGET\chem\ecd3.i\093011.b\015F1501.D
Date : 30-SEP-2011 11:18
Client ID:
Sample Info: SEQ-CAL7

Column phase: ZB MR-1

Instrument: ecd3.i

Operator: EM
Column diameter: 0.32



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Data file : \\BC\TARGET\chem\ecd3.i\093011.b\004R0401.D
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Inj Date : 30-SEP-2011 07:06
Operator : EM
Inst ID: ecd3.i
Smp Info : SEQ-CAL6
Misc Info : ;;;;;;INDABD.sub
Comment :
Method : \\BC\TARGET\chem\ecd3.i\093011.b\8081_82R.m
Meth Date : 02-Oct-2011 20:12 jeh
Quant Type: ESTD
Cal Date : 13-OCT-2010 07:10
Cal File: 016R1601.D
Als bottle: 4
Calibration Sample, Level: 6
Dil Factor: 1.00000
Integrator: Falcon
Compound Sublist: INDABD.sub
Target Version: 4.04
Processing Host: NSH-LAPTOP1

Compounds	RT	EXP RT	DLT RT	RESPONSE	AMOUNTS CAL-AMT (ng/mL)	AMOUNTS ON-COL (ng/mL)
$ 38 TCMX [2C]	5.083	5.085	-0.002	185374	5.00000	5.028
3 Alpha-BHC [2C]	5.595	5.596	-0.001	237866	5.00000	4.770
23 Gamma-BHC [2C]	5.932	5.933	-0.001	202846	5.00000	4.715
5 Beta-BHC [2C]	6.220	6.221	-0.001	107254	5.00000	4.866
25 Heptachlor [2C]	6.290	6.293	-0.003	160903	5.00000	4.574
15 Delta-BHC [2C]	6.480	6.481	-0.001	185429	5.00000	4.625
2 Aldrin [2C]	6.598	6.600	-0.002	218397	5.00000	4.841
26 Heptachlor Epoxide [2C]	7.147	7.150	-0.003	205039	5.00000	4.879
24 Gamma-Chlordane [2C]	7.428	7.430	-0.002	253774	5.00000	5.520
4 Alpha-Chlordane [2C]	7.503	7.505	-0.002	216282	5.00000	4.985
17 Endosulfan I [2C]	7.580	7.581	-0.001	192056	5.00000	4.853
13 4,4'-DDE [2C]	7.700	7.701	-0.001	194556	5.00000	4.825
16 Dieldrin [2C]	7.892	7.891	0.001	201179	5.00000	4.771
20 Endrin [2C]	8.228	8.228	0.000	163528	5.00000	4.835
12 4,4'-DDD [2C]	8.370	8.371	-0.001	163836	5.00000	4.696
18 Endosulfan II [2C]	8.580	8.581	-0.001	158800	5.00000	4.687
14 4,4'-DDT [2C]	8.682	8.683	-0.001	121750	5.00000	4.514
21 Endrin Aldehyde [2C]	8.800	8.801	-0.001	130951	5.00000	4.743
19 Endosulfan Sulfate [2C]	9.077	9.078	-0.001	120789	5.00000	4.582
27 Methoxychlor [2C]	9.397	9.398	-0.001	70700	5.00000	4.733
22 Endrin Ketone [2C]	9.735	9.736	-0.001	164859 *	5.00000	4.607
$ 39 DCB [2C]	11.092	11.093	-0.001	151177 X	5.00000	4.522

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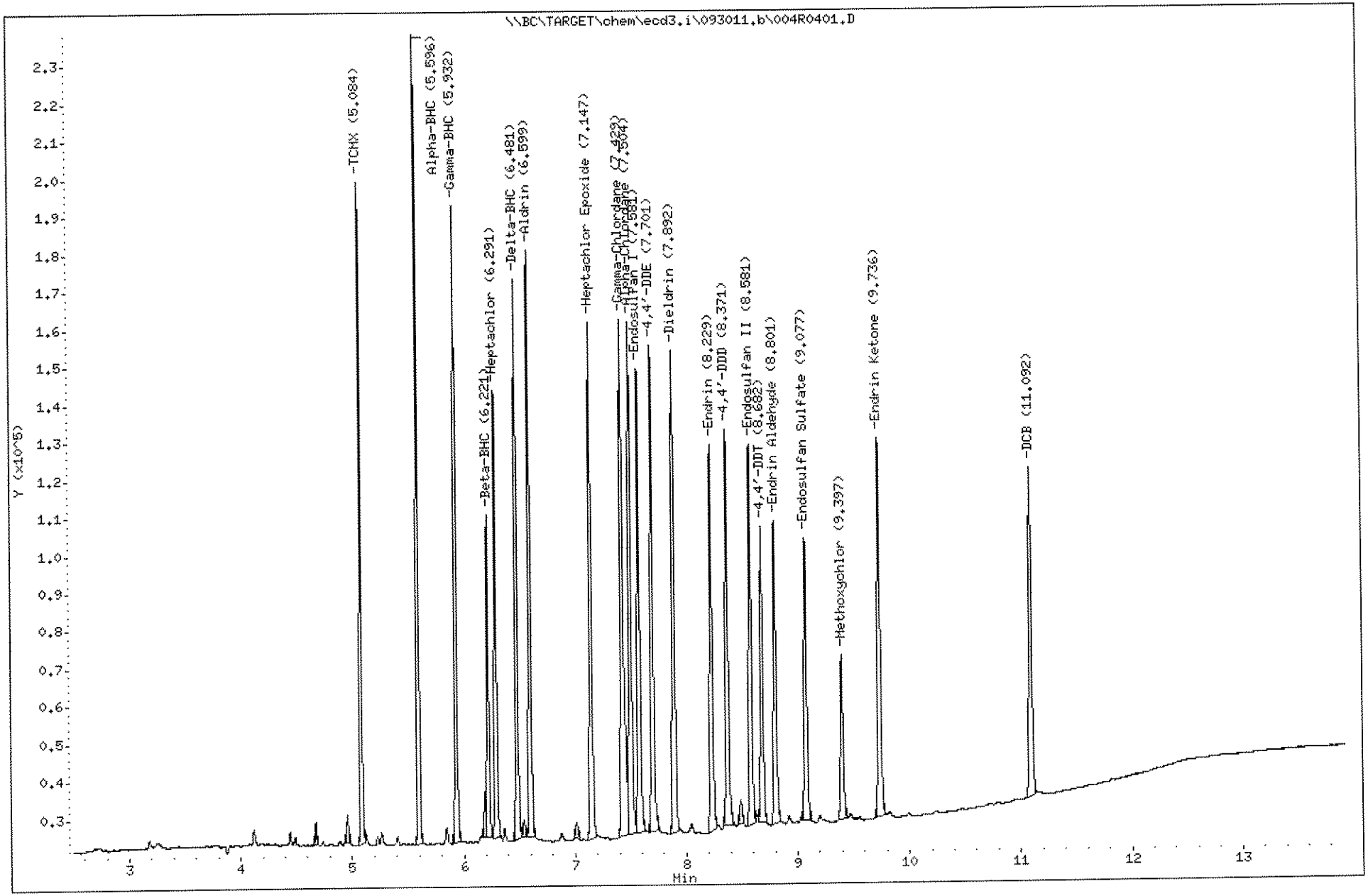
Data File: \\BC\TARGET\chem\ecd3.i\093011.b\004R0401.D
Date : 30-SEP-2011 07:06
Client ID:
Sample Info: SEQ-CAL6

Column phase: ZB MR-2

Instrument: ecd3.i

Operator: EM
Column diameter: 0.32



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Data file : \\BC\TARGET\chem\ecd3.i\093011.b\005R0501.D
Lab Smp Id: SEQ-CAL5
Inj Date : 30-SEP-2011 07:25
Operator : EM
Inst ID: ecd3.i
Smp Info : SEQ-CAL5
Misc Info : ;;;;;;INDABD.sub
Comment :
Method : \\BC\TARGET\chem\ecd3.i\093011.b\8081_82R.m
Meth Date : 02-Oct-2011 20:13 jeh
Quant Type: ESTD
Cal Date : 13-OCT-2010 07:10
Cal File: 016R1601.D
Als bottle: 5
Calibration Sample, Level: 5
Dil Factor: 1.00000
Integrator: Falcon
Compound Sublist: INDABD.sub
Target Version: 4.04
Processing Host: NSH-LAPTOP1

Compounds	RT	EXP RT	DLT RT	RESPONSE	AMOUNTS CAL-AMT (ng/mL)	AMOUNTS ON-COL (ng/mL)
$ 38 TCMX [2C]	5.085	5.085	0.000	378476	10.0000	10.26
3 Alpha-BHC [2C]	5.597	5.596	0.001	489301	10.0000	9.811
23 Gamma-BHC [2C]	5.933	5.933	0.000	408711 *	10.0000	9.500
5 Beta-BHC [2C]	6.222	6.221	0.001	213153	10.0000	9.670
25 Heptachlor [2C]	6.292	6.293	-0.001	310644	10.0000	8.830
15 Delta-BHC [2C]	6.480	6.481	-0.001	373005	10.0000	9.303
2 Aldrin [2C]	6.600	6.600	0.000	451123	10.0000	10.00
26 Heptachlor Epoxide [2C]	7.148	7.150	-0.002	414001	10.0000	9.852
24 Gamma-Chlordane [2C]	7.430	7.430	0.000	462215	10.0000	10.05
4 Alpha-Chlordane [2C]	7.503	7.505	-0.002	428320	10.0000	9.873
17 Endosulfan I [2C]	7.582	7.581	0.001	389009	10.0000	9.830
13 4,4'-DDE [2C]	7.702	7.701	0.001	404987	10.0000	10.04
16 Dieldrin [2C]	7.892	7.891	0.001	414448	10.0000	9.830
20 Endrin [2C]	8.228	8.228	0.000	331133	10.0000	9.791
12 4,4'-DDD [2C]	8.372	8.371	0.001	343930	10.0000	9.858
18 Endosulfan II [2C]	8.582	8.581	0.001	329667	10.0000	9.730
14 4,4'-DDT [2C]	8.683	8.683	0.000	247529	10.0000	9.177
21 Endrin Aldehyde [2C]	8.802	8.801	0.001	265791	10.0000	9.626
19 Endosulfan Sulfate [2C]	9.077	9.078	-0.001	238542	10.0000	9.049
27 Methoxychlor [2C]	9.398	9.398	0.000	139414	10.0000	9.332
22 Endrin Ketone [2C]	9.737	9.736	0.001	331294	10.0000	9.258
$ 39 DCB [2C]	11.093	11.093	0.000	293591 ✗	10.0000	9.995

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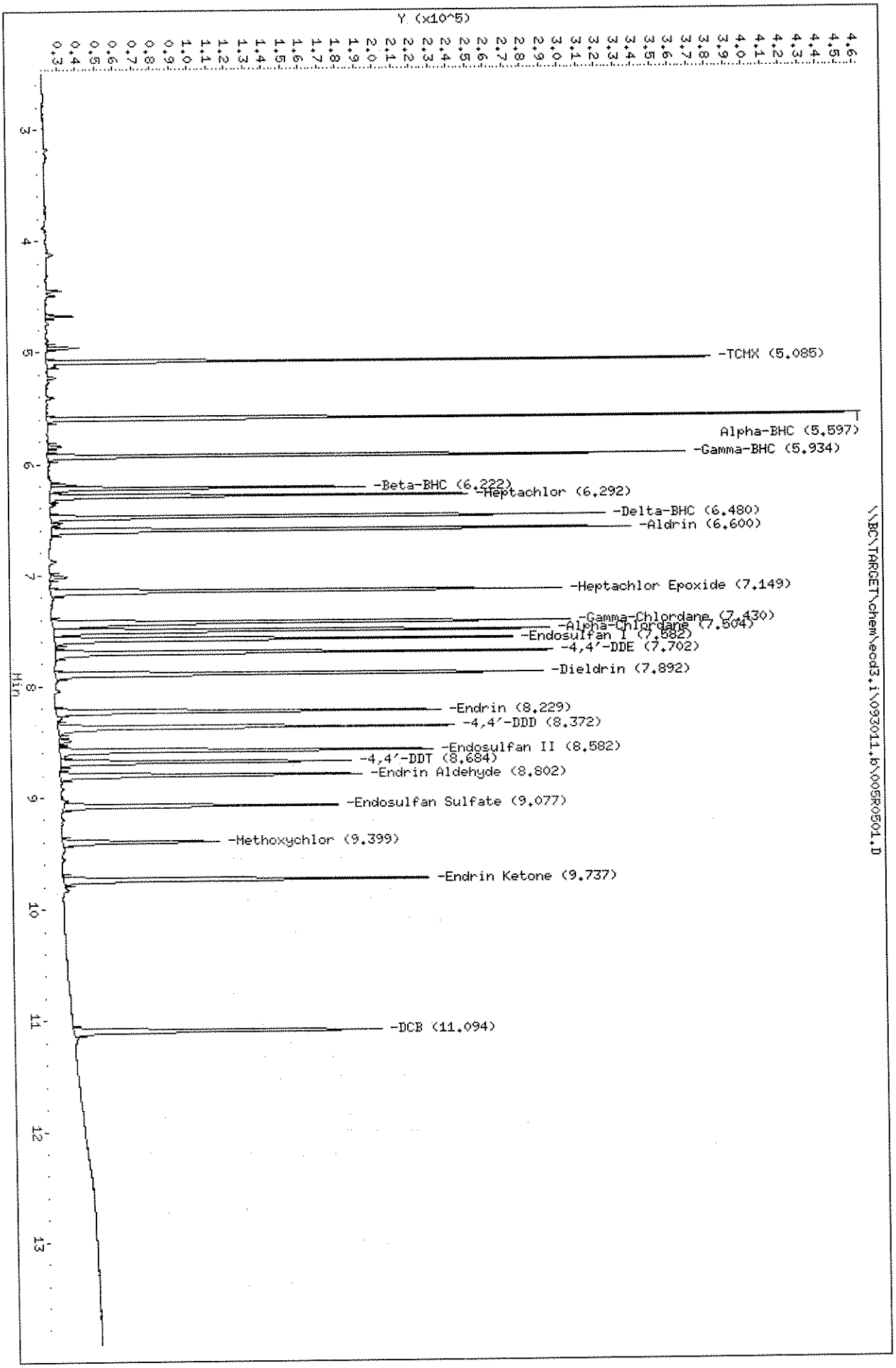
Data File: \\BC\TARGET\chem\ecd3.i\093011.b\005R0501.D
Date : 30-SEP-2011 07:25
Client ID:
Sample Info: SEQ-CAL5
Column phase: ZB MR-2

Instrument: ecd3.i
Operator: EM
Column diameter: 0.32



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Data file : \\BC\TARGET\chem\ecd3.i\093011.b\006R0601.D
Lab Smp Id: SEQ-CAL4
Inj Date : 30-SEP-2011 07:44
Operator : EM
Inst ID: ecd3.i
Smp Info : SEQ-CAL4
Misc Info : ;;;;;;INDABD.sub
Comment :
Method : \\BC\TARGET\chem\ecd3.i\093011.b\8081_82R.m
Meth Date : 02-Oct-2011 20:14 jeh
Quant Type: ESTD
Cal Date : 13-OCT-2010 07:10
Cal File: 016R1601.D
Als bottle: 6
Calibration Sample, Level: 4
Dil Factor: 1.00000
Integrator: Falcon
Compound Sublist: INDABD.sub
Target Version: 4.04
Processing Host: NSH-LAPTOP1

Compounds	RT	EXP RT	DLT RT	RESPONSE	AMOUNTS CAL-AMT (ng/mL)	AMOUNTS ON-COL (ng/mL)
$ 38 TCMX [2C]	5.085	5.085	0.000	925243	25.0000	25.10
3 Alpha-BHC [2C]	5.596	5.596	0.000	1266729	25.0000	25.40
23 Gamma-BHC [2C]	5.933	5.933	0.000	1072468	25.0000	24.93
5 Beta-BHC [2C]	6.221	6.221	0.000	536577	25.0000	24.34
25 Heptachlor [2C]	6.291	6.293	-0.002	851740	25.0000	24.21
15 Delta-BHC [2C]	6.481	6.481	0.000	995145	25.0000	24.82
2 Aldrin [2C]	6.600	6.600	0.000	1149328	25.0000	25.48
26 Heptachlor Epoxide [2C]	7.148	7.150	-0.002	1044625	25.0000	24.86
24 Gamma-Chlordane [2C]	7.430	7.430	0.000	1114560 *	25.0000	24.24
4 Alpha-Chlordane [2C]	7.505	7.505	0.000	1059754	25.0000	24.43
17 Endosulfan I [2C]	7.581	7.581	0.000	981168	25.0000	24.79
13 4,4'-DDE [2C]	7.701	7.701	0.000	1025638	25.0000	25.44
16 Dieldrin [2C]	7.891	7.891	0.000	1059449	25.0000	25.13
20 Endrin [2C]	8.228	8.228	0.000	850970	25.0000	25.16
12 4,4'-DDD [2C]	8.370	8.371	-0.001	875648	25.0000	25.10
18 Endosulfan II [2C]	8.581	8.581	0.000	831411	25.0000	24.54
14 4,4'-DDT [2C]	8.681	8.683	-0.002	654925	25.0000	24.28
21 Endrin Aldehyde [2C]	8.801	8.801	0.000	666539	25.0000	24.14
19 Endosulfan Sulfate [2C]	9.076	9.078	-0.002	616331	25.0000	23.38
27 Methoxychlor [2C]	9.398	9.398	0.000	345716	25.0000	23.14
22 Endrin Ketone [2C]	9.736	9.736	0.000	842903	25.0000	23.56
$ 39 DCB [2C]	11.093	11.093	0.000	702054 ✗	25.0000	25.69

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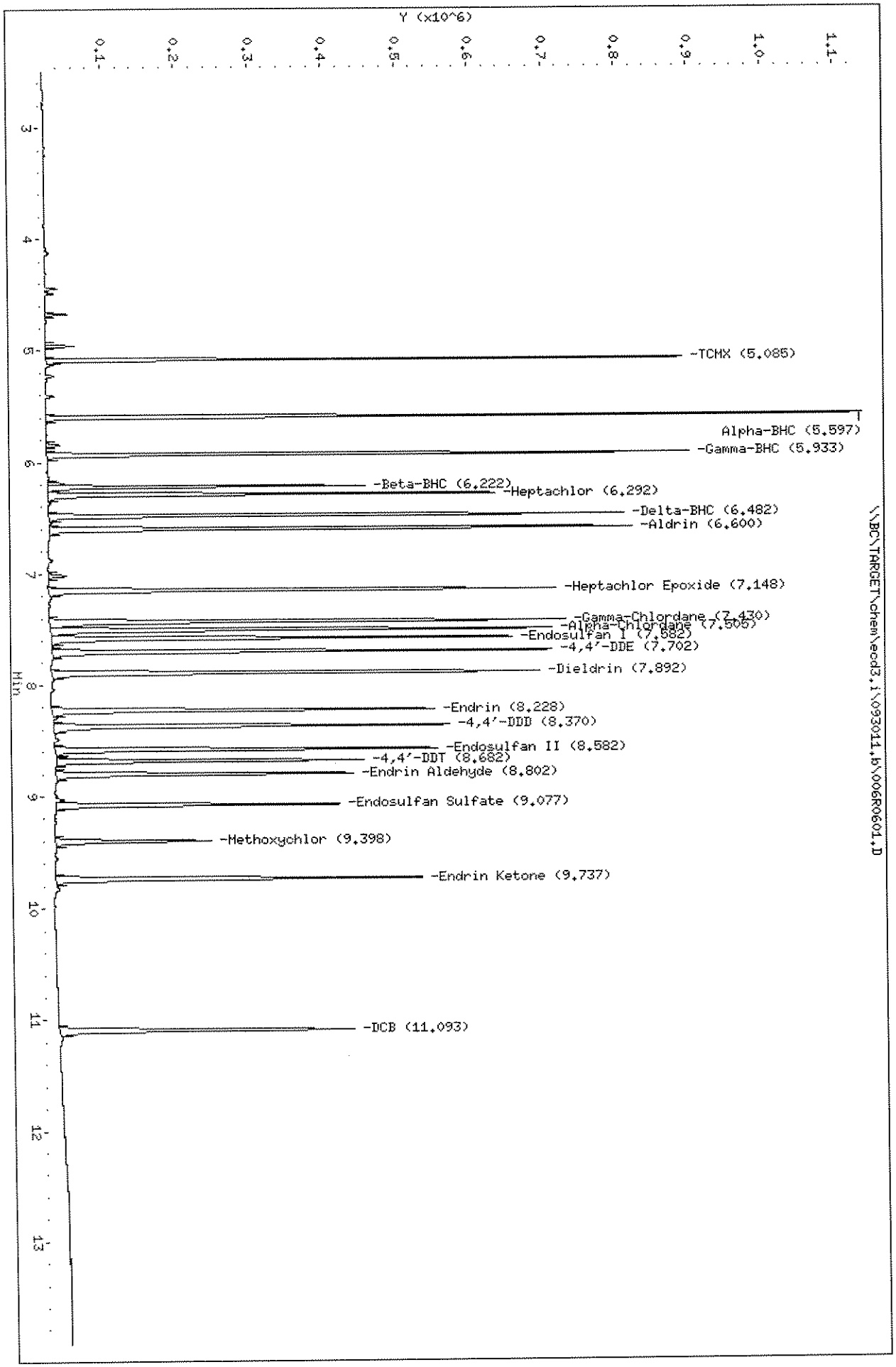
Data File: \\BC\TARGET\chem\ecd3.i\093011.b\006R0601.D
Date : 30-SEP-2011 07:44
Client ID:
Sample Info: SEQ-CAL4
Column phase: ZB HR-2

Instrument: ecd3.i
Operator: EM
Column diameter: 0.32



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Data file : \\BC\TARGET\chem\ecd3.i\093011.b\007R0701.D
Lab Smp Id: SEQ-CAL3
Inj Date : 30-SEP-2011 08:02
Operator : EM Inst ID: ecd3.i
Smp Info : SEQ-CAL3
Misc Info : ;;;;;;INDABD.sub
Comment :
Method : \\BC\TARGET\chem\ecd3.i\093011.b\8081_82R.m
Meth Date : 02-Oct-2011 20:14 jeh Quant Type: ESTD
Cal Date : 13-OCT-2010 07:10 Cal File: 016R1601.D
Als bottle: 7 Calibration Sample, Level: 3
Dil Factor: 1.00000
Integrator: Falcon Compound Sublist: INDABD.sub
Target Version: 4.04
Processing Host: NSH-LAPTOP1

Compounds	RT	EXP RT	DLT RT	RESPONSE	AMOUNTS CAL-AMT (ng/mL)	AMOUNTS ON-COL (ng/mL)
$ 38 TCMX [2C]	5.084	5.085	-0.001	1748447	50.0000	47.42(M)
3 Alpha-BHC [2C]	5.596	5.596	0.000	2447063	50.0000	49.07
23 Gamma-BHC [2C]	5.933	5.933	0.000	2102504	50.0000	48.87
5 Beta-BHC [2C]	6.221	6.221	0.000	1018214	50.0000	46.20
25 Heptachlor [2C]	6.291	6.293	-0.002	1701030 *	50.0000	48.35
15 Delta-BHC [2C]	6.481	6.481	0.000	1982501	50.0000	49.44
2 Aldrin [2C]	6.599	6.600	-0.001	2184320	50.0000	48.42
26 Heptachlor Epoxide [2C]	7.149	7.150	-0.001	1985645	50.0000	47.25
24 Gamma-Chlordane [2C]	7.429	7.430	-0.001	2121840	50.0000	46.16
4 Alpha-Chlordane [2C]	7.504	7.505	-0.001	2016331	50.0000	46.48
17 Endosulfan I [2C]	7.583	7.581	0.002	1867363	50.0000	47.19
13 4,4'-DDE [2C]	7.701	7.701	0.000	1954844	50.0000	48.48
16 Dieldrin [2C]	7.893	7.891	0.002	2033831	50.0000	48.24
20 Endrin [2C]	8.229	8.228	0.001	1647215	50.0000	48.71
12 4,4'-DDD [2C]	8.371	8.371	0.000	1686991	50.0000	48.36
18 Endosulfan II [2C]	8.581	8.581	0.000	1623798	50.0000	47.92
14 4,4'-DDT [2C]	8.684	8.683	0.001	1370160	50.0000	50.80
21 Endrin Aldehyde [2C]	8.801	8.801	0.000	1303178	50.0000	47.20
19 Endosulfan Sulfate [2C]	9.078	9.078	0.000	1269840	50.0000	48.17
27 Methoxychlor [2C]	9.399	9.398	0.001	708015	50.0000	47.40
22 Endrin Ketone [2C]	9.736	9.736	0.000	1690286	50.0000	47.24
$ 39 DCB [2C]	11.093	11.093	0.000	1346979 X	50.0000	50.48

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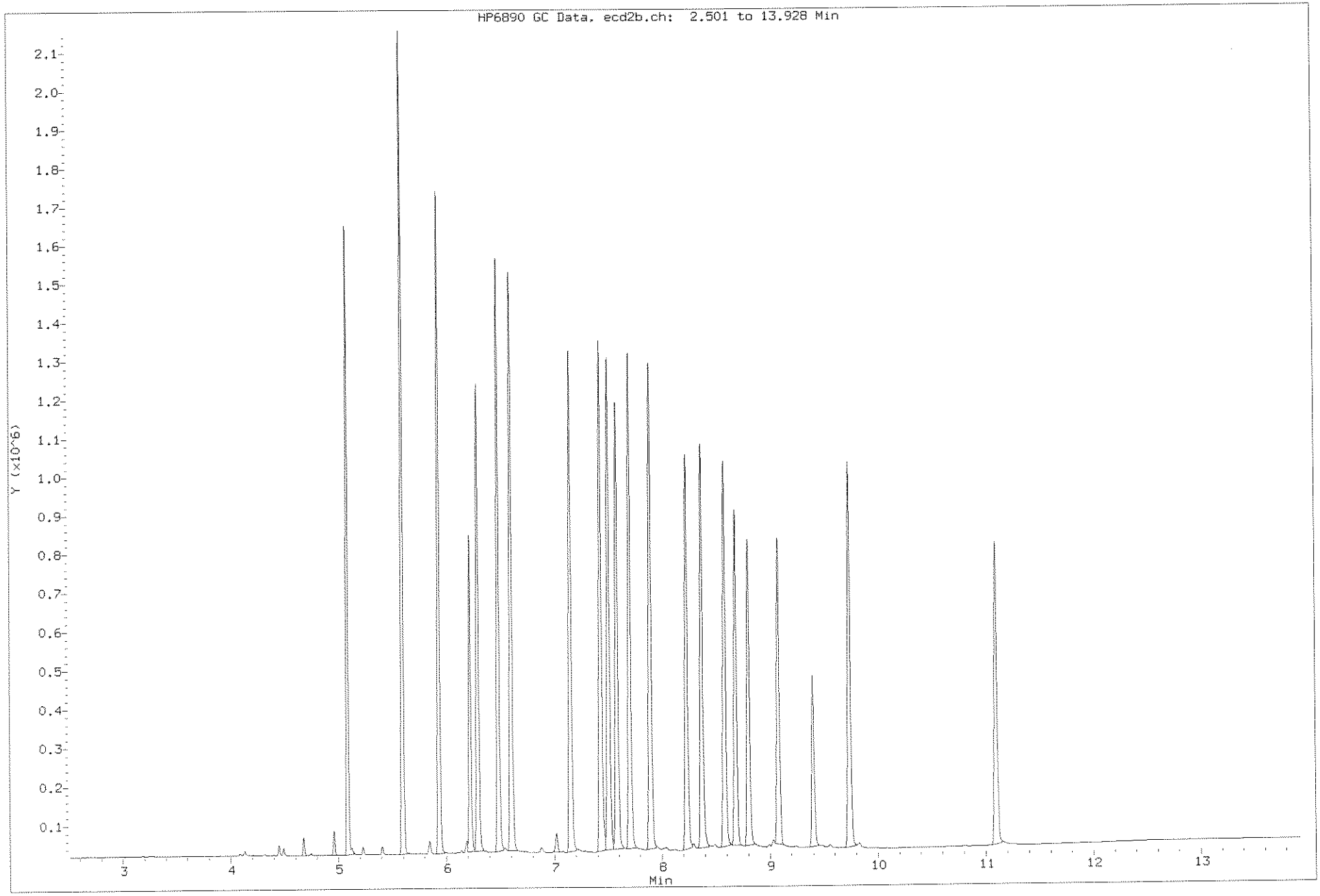
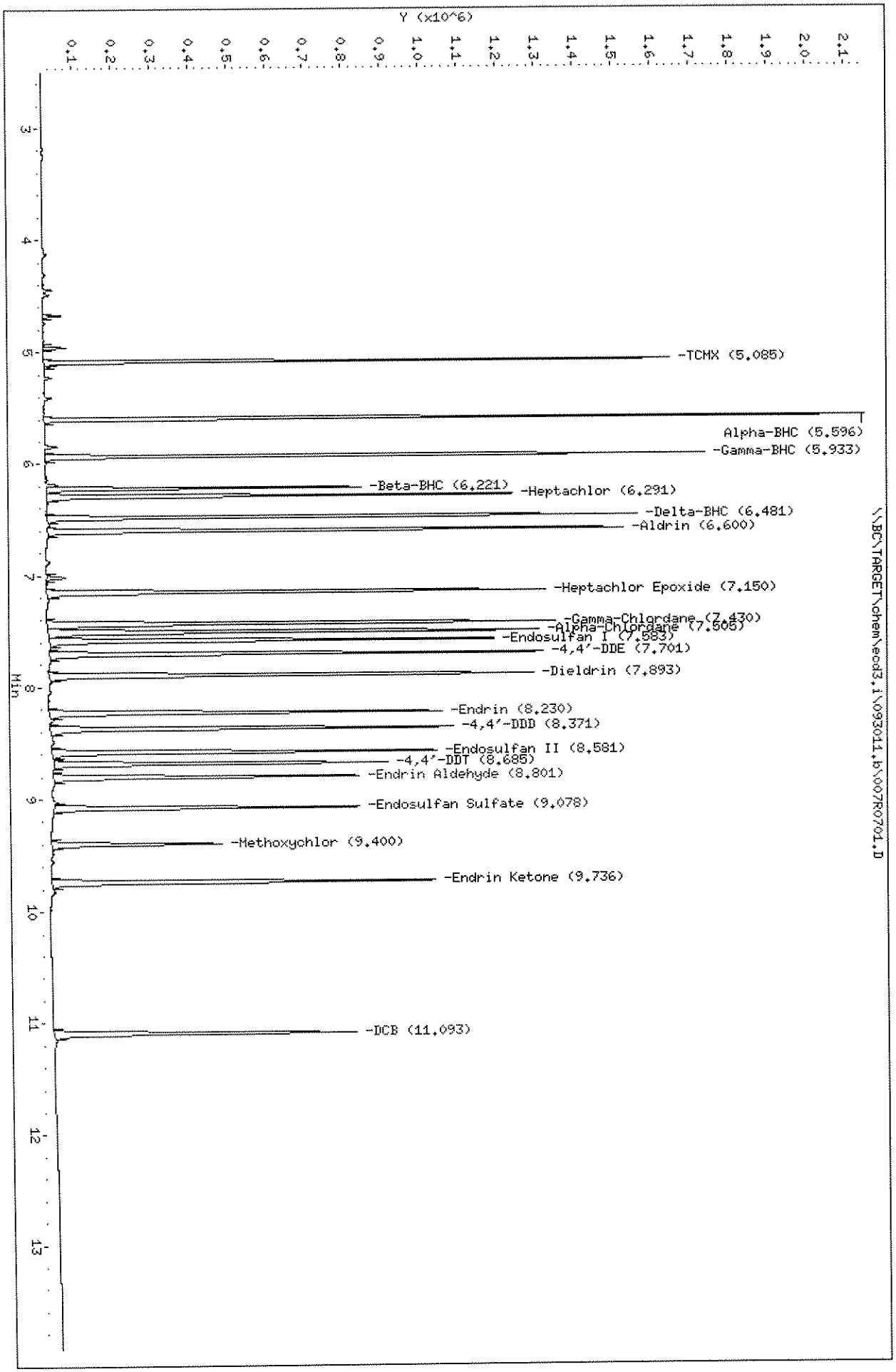
Data File: \\BC\TARGET\chem\ecd3.i\093011.b\007R0701.D
Injection Date: 30-SEP-2011 08:02
Instrument: ecd3.i
Client Sample ID:



Data File: \\BC\TARGET\chem\ecd3.i\093011.b\007R0701.D
Date : 30-SEP-2011 08:02
Client ID:
Sample Info: SEQ-CAL3
Column phase: ZB MR-2

Instrument: ecd3.i
Operator: EH
Column diameter: 0.32



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Data file : \\BC\TARGET\chem\ecd3.i\093011.b\008R0801.D
Lab Smp Id: SEQ-CAL2
Inj Date : 30-SEP-2011 08:21
Operator : EM Inst ID: ecd3.i
Smp Info : SEQ-CAL2
Misc Info : ;;;;;;INDABD.sub
Comment :
Method : \\BC\TARGET\chem\ecd3.i\093011.b\8081_82R.m
Meth Date : 02-Oct-2011 20:14 jeh Quant Type: ESTD
Cal Date : 13-OCT-2010 07:10 Cal File: 016R1601.D
Als bottle: 8 Calibration Sample, Level: 2
Dil Factor: 1.00000
Integrator: Falcon Compound Sublist: INDABD.sub
Target Version: 4.04
Processing Host: NSH-LAPTOP1

Compounds	RT	EXP RT	DLT RT	RESPONSE	AMOUNTS CAL-AMT (ng/mL)	AMOUNTS ON-COL (ng/mL)
$ 38 TCMX [2C]	5.084	5.085	-0.001	3369232	100.000	91.38(M)
3 Alpha-BHC [2C]	5.596	5.596	0.000	4839930	100.000	97.05
23 Gamma-BHC [2C]	5.932	5.933	-0.001	4190360	100.000	97.40
5 Beta-BHC [2C]	6.221	6.221	0.000	2005495	100.000	90.99
25 Heptachlor [2C]	6.292	6.293	-0.001	3483788	100.000	99.03
15 Delta-BHC [2C]	6.481	6.481	0.000	3999252	100.000	99.74
2 Aldrin [2C]	6.599	6.600	-0.001	4236628	100.000	93.92
26 Heptachlor Epoxide [2C]	7.149	7.150	-0.001	3858402 *	100.000	91.82
24 Gamma-Chlordane [2C]	7.429	7.430	-0.001	4100323	100.000	89.19
4 Alpha-Chlordane [2C]	7.504	7.505	-0.001	3902867	100.000	89.96
17 Endosulfan I [2C]	7.581	7.581	0.000	3623231	100.000	91.56
13 4,4'-DDE [2C]	7.701	7.701	0.000	3791312	100.000	94.03
16 Dieldrin [2C]	7.891	7.891	0.000	3976155	100.000	94.30
20 Endrin [2C]	8.227	8.228	-0.001	3233111	100.000	95.60
12 4,4'-DDD [2C]	8.371	8.371	0.000	3317589	100.000	95.10
18 Endosulfan II [2C]	8.581	8.581	0.000	3213648	100.000	94.85
14 4,4'-DDT [2C]	8.682	8.683	-0.001	2834086	100.000	105.1
21 Endrin Aldehyde [2C]	8.801	8.801	0.000	2576924	100.000	93.33
19 Endosulfan Sulfate [2C]	9.077	9.078	-0.001	2604550	100.000	98.81
27 Methoxychlor [2C]	9.397	9.398	-0.001	1437230	100.000	96.21
22 Endrin Ketone [2C]	9.736	9.736	0.000	3401059	100.000	95.05
$ 39 DCB [2C]	11.092	11.093	-0.001	2640768 ✗	100.000	100.2

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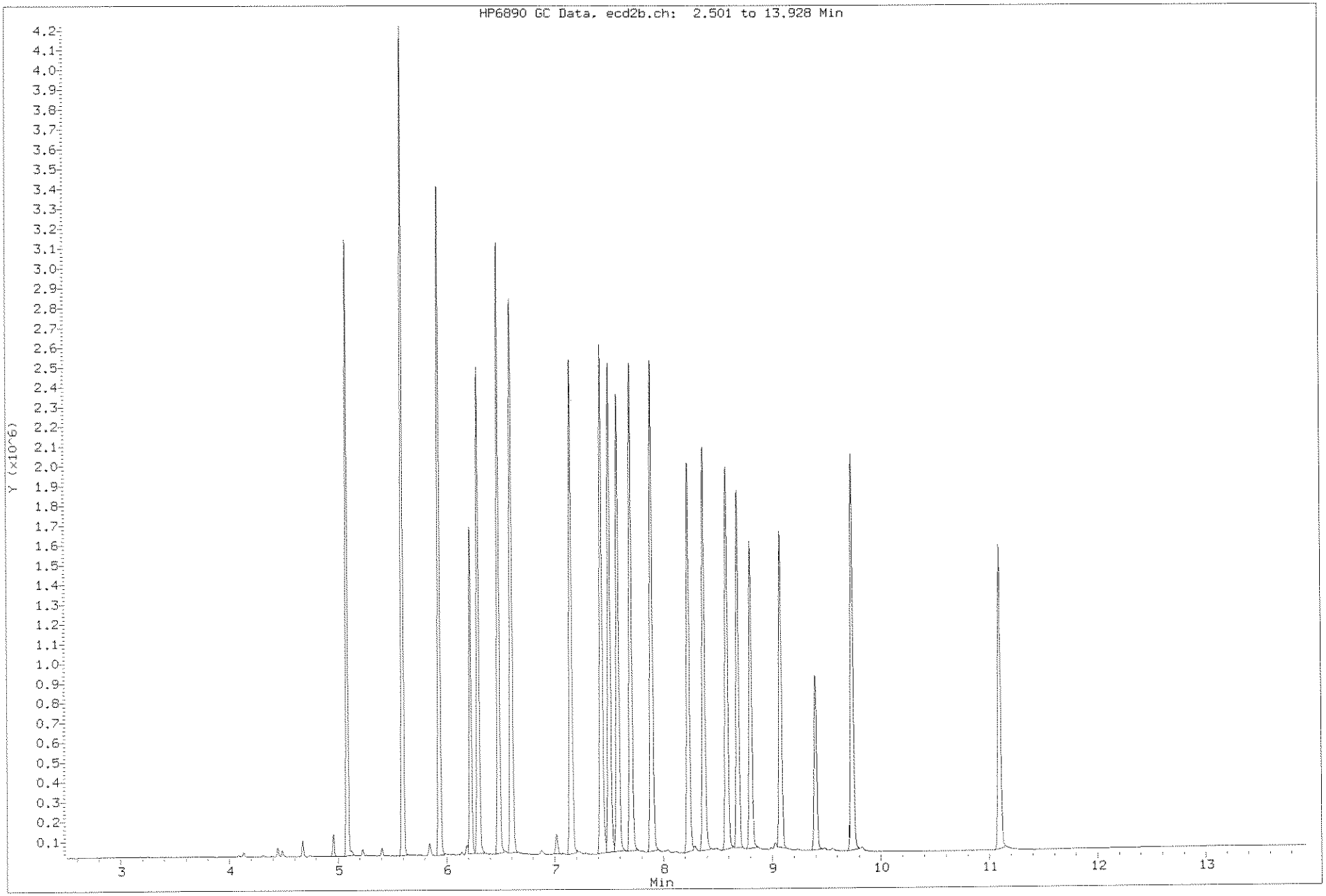
Data File: \\BC\TARGET\chem\ecd3.i\093011.b\008R0801.D
Injection Date: 30-SEP-2011 08:21
Instrument: ecd3.i
Client Sample ID:

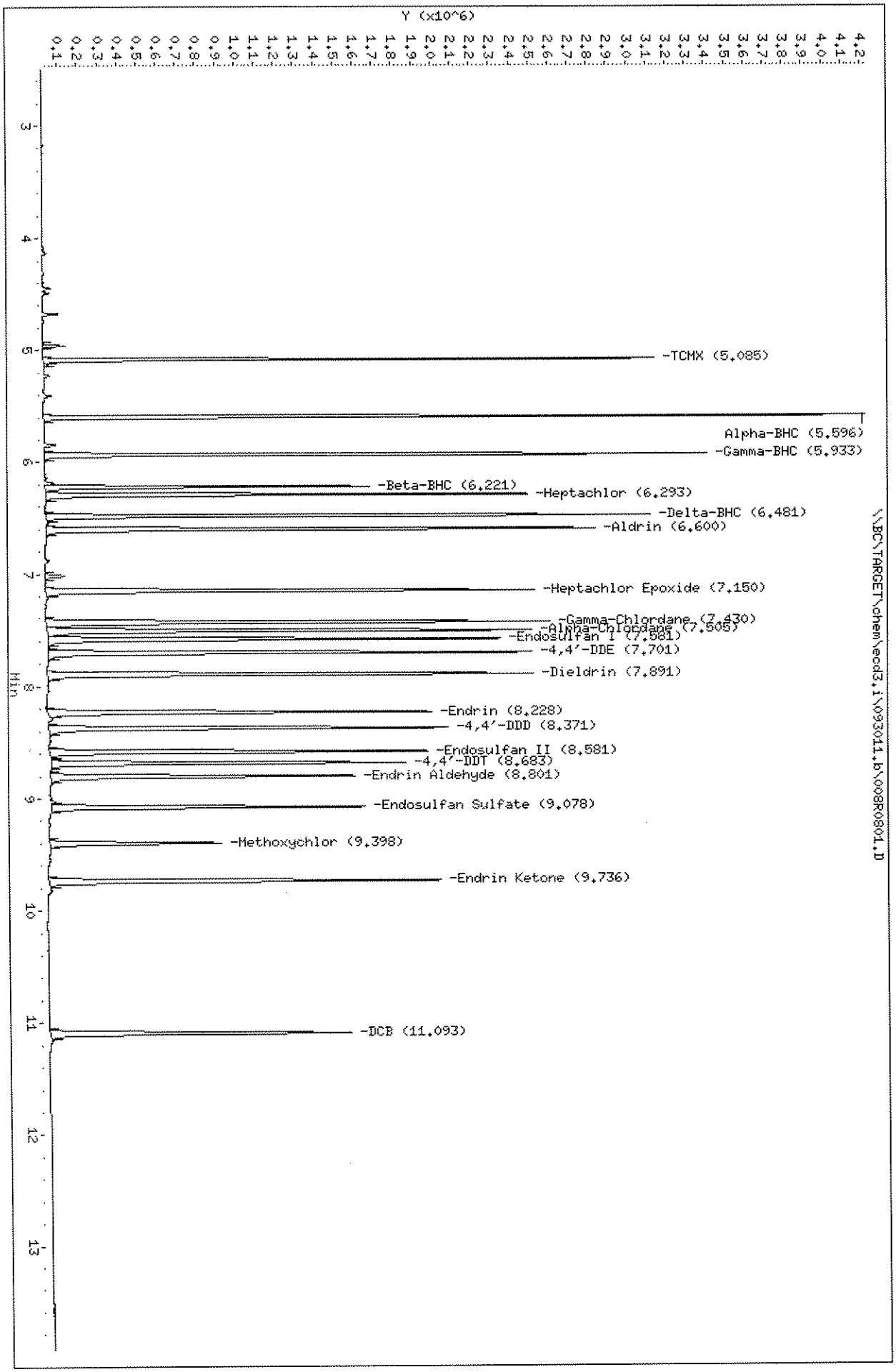


1374

1109191

Data File: \\BC\TARGET\chem\ecd3.i\093011.b\008R0801.D
Date : 30-SEP-2011 08:21
Client ID:
Sample Info: SEQ-CAL2
Column phase: ZB MR-2

Instrument: ecd3.i
Operator: EM
Column diameter: 0.32



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Data file : \\BC\TARGET\chem\ecd3.i\093011.b\009R0901.D
Lab Smp Id: SEQ-CAL1
Inj Date : 30-SEP-2011 08:40
Operator : EM Inst ID: ecd3.i
Smp Info : SEQ-CAL1
Misc Info : ;;;;;;INDABD.sub
Comment :
Method : \\BC\TARGET\chem\ecd3.i\093011.b\8081_82R.m
Meth Date : 02-Oct-2011 20:15 jeh Quant Type: ESTD
Cal Date : 13-OCT-2010 07:10 Cal File: 016R1601.D
Als bottle: 9 Calibration Sample, Level: 1
Dil Factor: 1.00000
Integrator: Falcon Compound Sublist: INDABD.sub
Target Version: 4.04
Processing Host: NSH-LAPTOP1

Compounds	RT	EXP RT	DLT RT	RESPONSE	AMOUNTS CAL-AMT (ng/mL)	AMOUNTS ON-COL (ng/mL)
$ 38 TCMX [2C]	5.086	5.085	0.001	6347758	200.000	172.2
3 Alpha-BHC [2C]	5.597	5.596	0.001	9407806	200.000	188.6
23 Gamma-BHC [2C]	5.934	5.933	0.001	8216456	200.000	191.0
5 Beta-BHC [2C]	6.222	6.221	0.001	3898861	200.000	176.9
25 Heptachlor [2C]	6.292	6.293	-0.001	6971136	200.000	198.2
15 Delta-BHC [2C]	6.481	6.481	0.000	7938763	200.000	198.0
2 Aldrin [2C]	6.601	6.600	0.001	8019005	200.000	177.8
26 Heptachlor Epoxide [2C]	7.149	7.150	-0.001	7320669	200.000	174.2
24 Gamma-Chlordane [2C]	7.431	7.430	0.001	7768970	200.000	169.0
4 Alpha-Chlordane [2C]	7.504	7.505	-0.001	7418144	200.000	171.0
17 Endosulfan I [2C]	7.582	7.581	0.001	6884880	200.000	174.0
13 4,4'-DDE [2C]	7.701	7.701	0.000	7193289	200.000	178.4
16 Dieldrin [2C]	7.892	7.891	0.001	7613441	200.000	180.6
20 Endrin [2C]	8.229	8.228	0.001	6341619	200.000	187.5
12 4,4'-DDD [2C]	8.371	8.371	0.000	6421939	200.000	184.1
18 Endosulfan II [2C]	8.581	8.581	0.000	6271559	200.000	185.1
14 4,4'-DDT [2C]	8.682	8.683	-0.001	5888666	200.000	218.3(A)
21 Endrin Aldehyde [2C]	8.801	8.801	0.000	5007995	200.000	181.4
19 Endosulfan Sulfate [2C]	9.077	9.078	-0.001	5260622	200.000	199.6
27 Methoxychlor [2C]	9.399	9.398	0.001	2982469 *	200.000	199.6
22 Endrin Ketone [2C]	9.736	9.736	0.000	6768605	200.000	189.2
$ 39 DCB [2C]	11.092	11.093	-0.001	5229980	200.000	199.7

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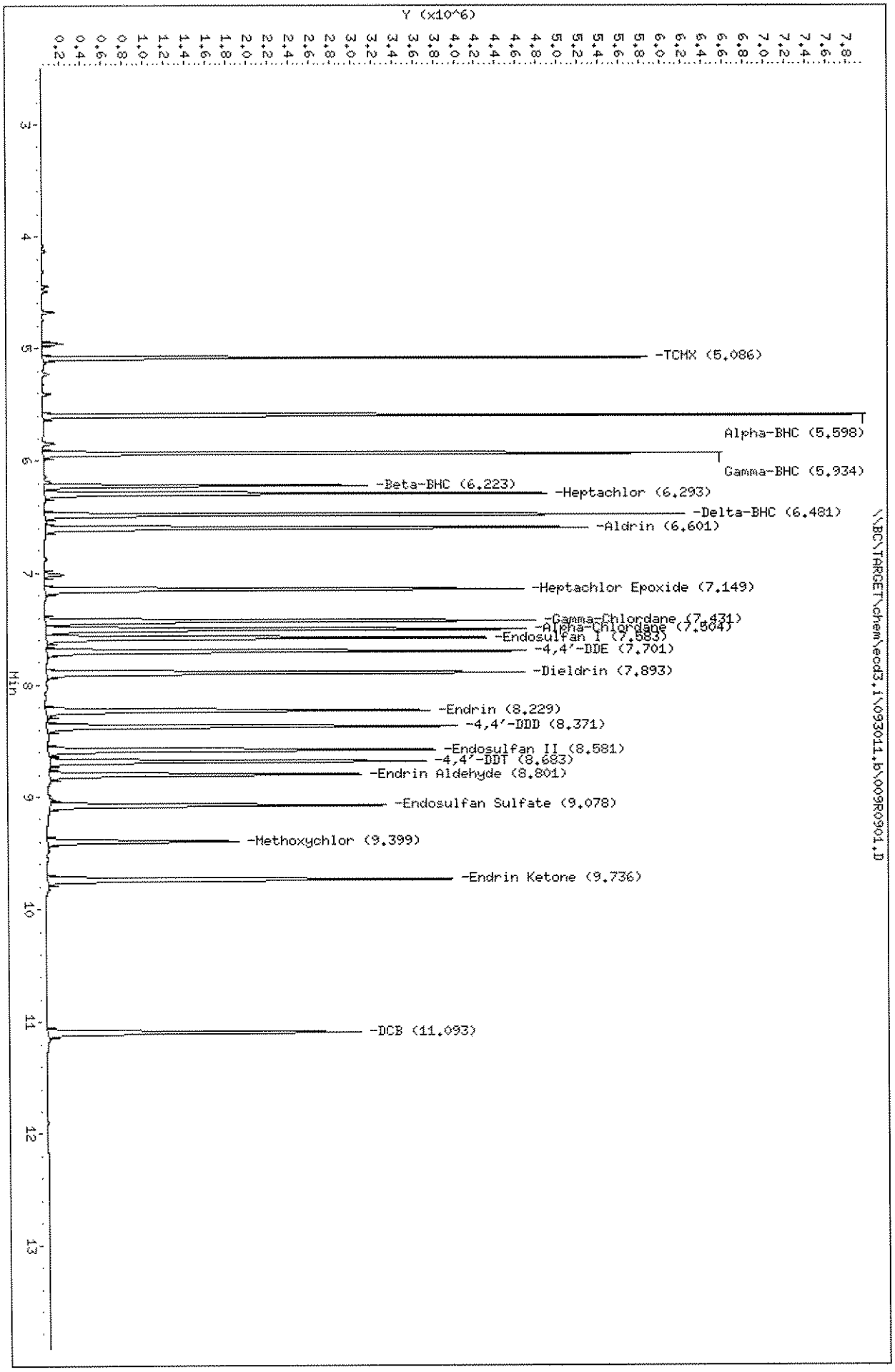
Data File: \\BC\TARGET\chem\ecd3.i\093011.b\009R0901.D
Date : 30-SEP-2011 08:40
Client ID:
Sample Info: SEQ-CAL1
Column phase: ZB MR-2

Instrument: ecd3.i
Operator: EH
Column diameter: 0.32



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Data file : \\BC\TARGET\chem\ecd3.i\093011.b\015R1501.D
Lab Smp Id: SEQ-CAL7
Inj Date : 30-SEP-2011 11:18
Operator : EM Inst ID: ecd3.i
Smp Info : SEQ-CAL7
Misc Info : ;;;;;;INDABD.sub
Comment :
Method : \\BC\TARGET\chem\ecd3.i\093011.b\8081_82R.m
Meth Date : 02-Oct-2011 20:15 jeh Quant Type: ESTD
Cal Date : 13-OCT-2010 07:10 Cal File: 016R1601.D
Als bottle: 15 Calibration Sample, Level: 7
Dil Factor: 1.00000
Integrator: Falcon Compound Sublist: INDABD.sub
Target Version: 4.04
Processing Host: NSH-LAPTOP1

Compounds	RT	EXP RT	DLT RT	RESPONSE	AMOUNTS CAL-AMT (ng/mL)	AMOUNTS ON-COL (ng/mL)
$ 38 TCMX [2C]	5.084	5.085	-0.001	45751	1.00000	1.241
3 Alpha-BHC [2C]	5.596	5.596	0.000	57549	1.00000	1.154
23 Gamma-BHC [2C]	5.933	5.933	0.000	51790	1.00000	1.204
5 Beta-BHC [2C]	6.221	6.221	0.000	30148	1.00000	1.368
25 Heptachlor [2C]	6.291	6.293	-0.002	45219	1.00000	1.285
15 Delta-BHC [2C]	6.479	6.481	-0.002	47139	1.00000	1.176
2 Aldrin [2C]	6.599	6.600	-0.001	54857	1.00000	1.216
26 Heptachlor Epoxide [2C]	7.148	7.150	-0.002	55056	1.00000	1.310
24 Gamma-Chlordane [2C]	7.429	7.430	-0.001	57953	1.00000	1.261(M)
4 Alpha-Chlordane [2C]	7.504	7.505	-0.001	58756	1.00000	1.354
17 Endosulfan I [2C]	7.581	7.581	0.000	52441	1.00000	1.325
13 4,4'-DDE [2C]	7.701	7.701	0.000	48824	1.00000	1.211
16 Dieldrin [2C]	7.893	7.891	0.002	52575	1.00000	1.247
20 Endrin [2C]	8.228	8.228	0.000	39894	1.00000	1.180
12 4,4'-DDD [2C]	8.371	8.371	0.000	42998	1.00000	1.232
18 Endosulfan II [2C]	8.581	8.581	0.000	43220	1.00000	1.276
14 4,4'-DDT [2C]	8.683	8.683	0.000	28313	1.00000	1.050
21 Endrin Aldehyde [2C]	8.803	8.801	0.002	36976 *	1.00000	1.339
19 Endosulfan Sulfate [2C]	9.076	9.078	-0.002	34109	1.00000	1.294
27 Methoxychlor [2C]	9.398	9.398	0.000	19214	1.00000	1.286
22 Endrin Ketone [2C]	9.736	9.736	0.000	49003	1.00000	1.369
$ 39 DCB [2C]	11.093	11.093	0.000	44181 X	1.00000	0.4105

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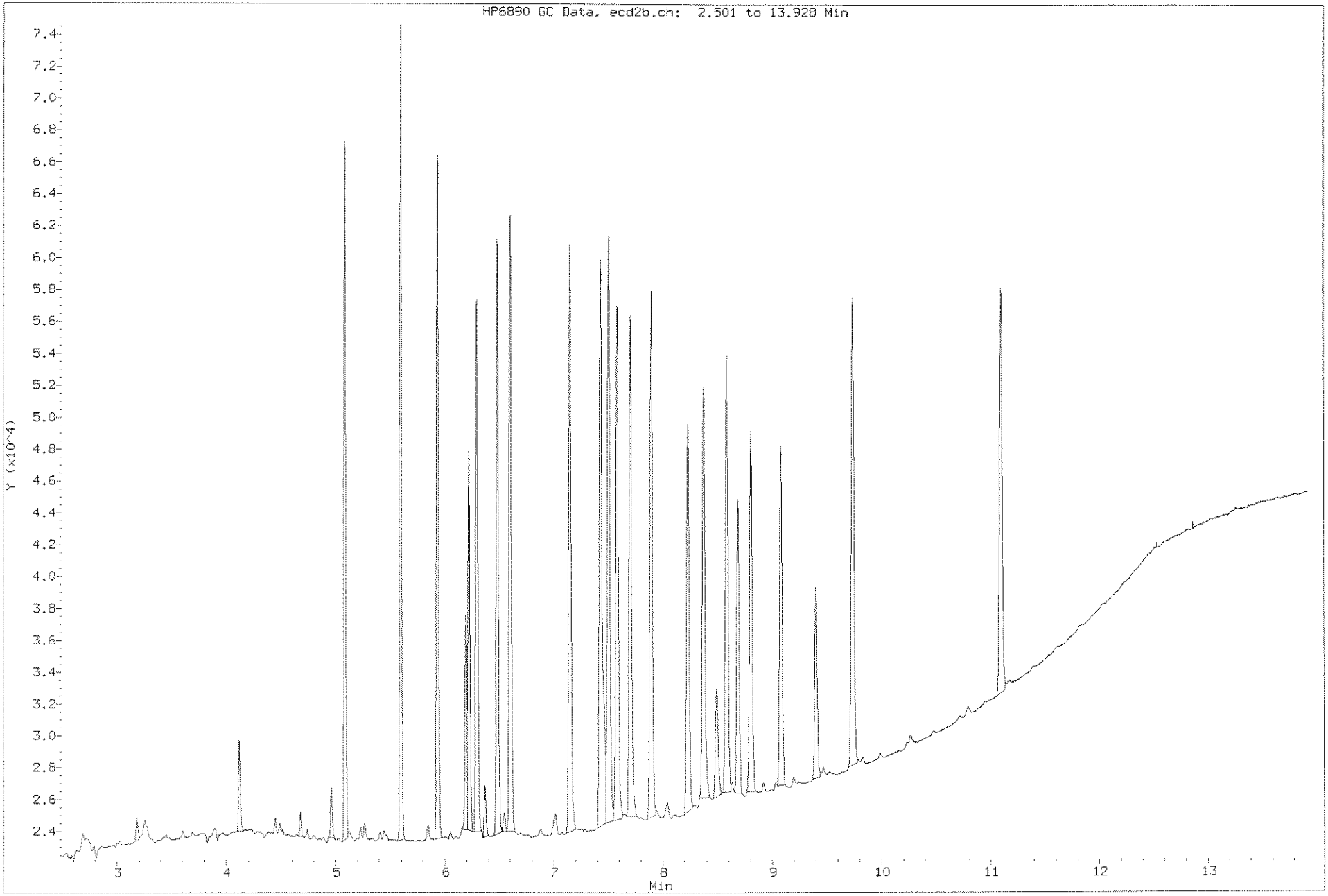
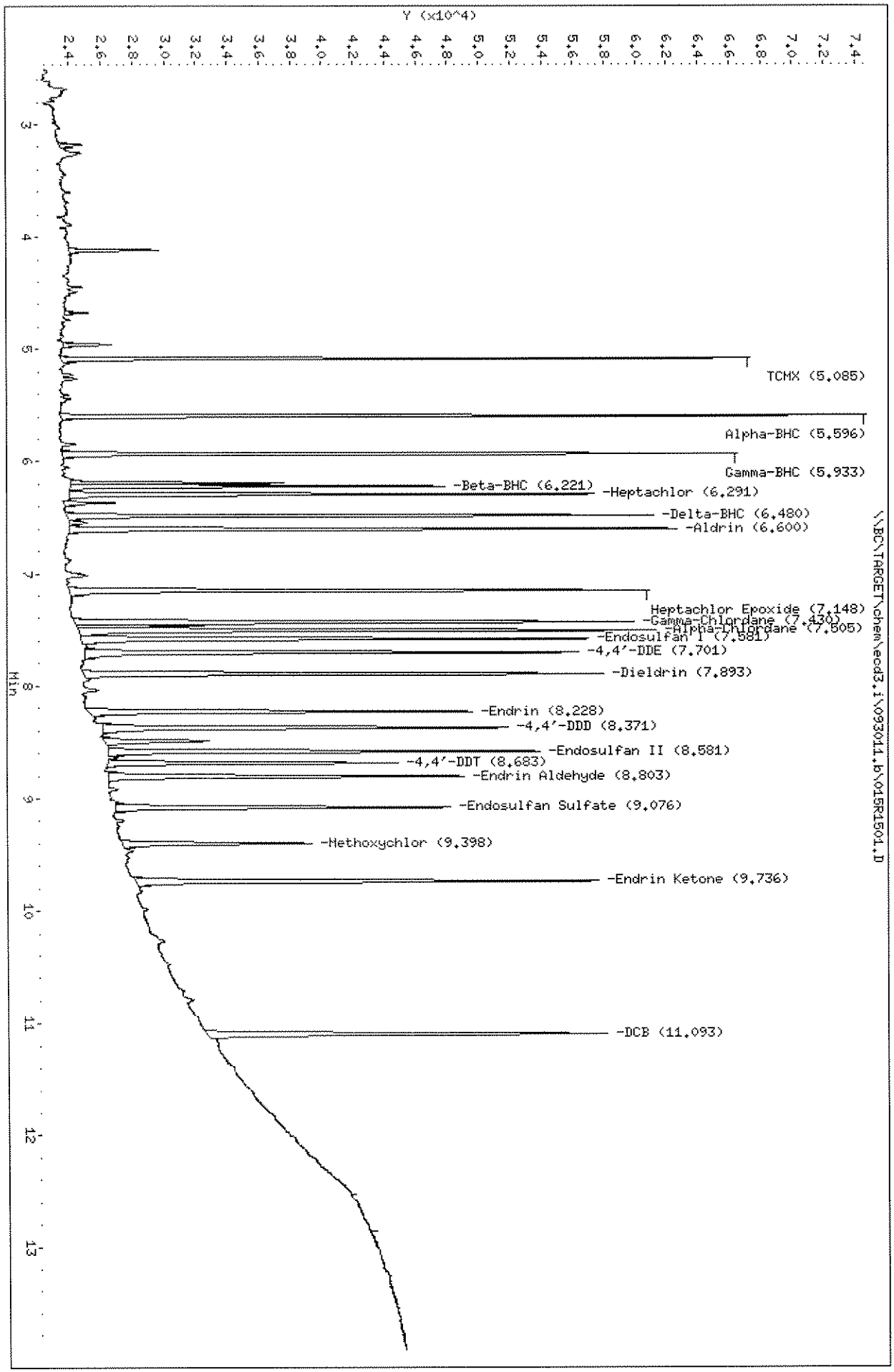
Data File: \\BC\TARGET\chem\ecd3.i\093011.b\015R1501.D
Injection Date: 30-SEP-2011 11:18
Instrument: ecd3.i
Client Sample ID:



Data File: \\BC\TARGET\chem\ecd3.i\093011.b\015R1501.D
Date : 30-SEP-2011 11:18
Client ID:
Sample Info: SEQ-CAL7
Column phase: ZB MR-2

Instrument: ecd3.i
Operator: EM
Column diameter: 0.32



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Sequence: C:\HPCHEM\ECD3\SEQUENCE\101011.s\ECD.3\HP. F/F\8081_82 PG 401

EM210

Sequence Table (Front/BACK Injector):

Quantification Part:

Line	Location	SampleName	SampleAmount	ISTDAmt	Multiplier	Dilution
1	Vial 1	Pest Primer				
2	Vial 2	SEQ-PEM1 ID#				11I0420
3	Vial 3	SEQ-CCV1 (A/B)				11I0419
4	Vial 4	SEQ-CCV2 (Chlor)				11I0754
5	Vial 5	SEQ-CCV3 (Tox)				11I0795
6	Vial 6	SEQ-CCV4 (1660)				11I0557
7	Vial 7	SEQ-CCV5 (1254)				11J0041
8	Vial 8	1I29017-BLK1				
9	Vial 9	1I29017-BS1				
10	Vial 10	1109149-02 1x				
11	Vial 11	1I29017-MS1				
12	Vial 12	1I29017-MSD1				
13	Vial 13	1I29017-MS2				
14	Vial 14	1109149-03				
15	Vial 15	1109149-05				
16	Vial 16	1109149-06				
17	Vial 17	SEQ-CCV6 (A/B)				
18	Vial 18	SEQ-CCV7 (Chlor)				
19	Vial 19	SEQ-CCV8 (Tox)				
20	Vial 20	SEQ-CCV9 (1660)				
21	Vial 21	SEQ-CCVA (1254)				
22	Vial 22	SEQ-CAL6 1660				11J0019
23	Vial 23	SEQ-CAL5				11J0018
24	Vial 24	SEQ-CAL4				11J0017
25	Vial 25	SEQ-CAL3				11J0016
26	Vial 26	SEQ-CAL2				11J0015
27	Vial 27	SEQ-CAL1				11J0014
28	Vial 28	SEQ-ICV1				11I0051
29	Vial 29	SEQ-CAL7 1254				11J0045
30	Vial 30	SEQ-CAL8				11J0044
31	Vial 31	SEQ-CAL9				11J0043
32	Vial 32	SEQ-CALA				11J0042
33	Vial 33	SEQ-CALB				11J0041
34	Vial 34	SEQ-CALC				11J0040
35	Vial 35	SEQ-ICV2				11G0018
36	Vial 36	SEQ-CCVB (1660)				11I0557
37	Vial 37	SEQ-CCVC (1254)				11J0041
38	Vial 38	1109182-19;CuA 1x				
39	Vial 39	1109182-20;CuA				
40	Vial 40	1109182-21;CuA				
41	Vial 41	1109182-22;CuA				
42	Vial 42	1109182-23;CuA				
43	Vial 43	SEQ-CCVD (1660)				
44	Vial 44	SEQ-CCVE (1254)				
45	Vial 45	1I29003-BLK1,CuA				
46	Vial 46	1I29003-BS1;CuA				
47	Vial 47	1109180-24;CuA 1x				
48	Vial 48	1109180-25;CuA				
49	Vial 49	1109180-26;CuA				
50	Vial 50	1109181-01;CuA				
51	Vial 51	1109181-02;CuA				
52	Vial 52	1109181-03;CuA				
53	Vial 53	1109181-04;CuA				
54	Vial 54	1109181-05;CuA				
55	Vial 55	1109181-06;CuA				
56	Vial 56	1109181-07;CuA				
57	Vial 57	1109181-08;CuA				
58	Vial 58	SEQ-CCVF (1660)				
59	Vial 59	SEQ-CCVG (1254)				

@ All lines crossed out can be found with a different set of data. This set includes only the 1660 and 1254 Aroclor calibrations.

SP

10/12/11

Sequence: C:\HPCHEM\ECD3\SEQUENCE\101011.S \ECD.3\HP.E/F\8081_82 PG 402 Em210

Line	Location	SampleName	SampleAmount	ISTDAmt	Multiplier	Dilution
60	Vial 60	1109181-09;CuA				
61	Vial 61	1109181-10;CuA				
62	Vial 62	1109182-01;CuA				
63	Vial 63	1109182-02;CuA				
64	Vial 64	1109182-03;CuA				
65	Vial 65	1I29003-MS1;CuA				
66	Vial 66	1I29003-MSD1;CuA				
67	Vial 67	1109182-04;CuA				
68	Vial 68	1109182-05;CuA				
69	Vial 69	1109182-06;CuA				
70	Vial 70	1109182-07;CuA				
71	Vial 71	SEQ-CCVH(1660)				
72	Vial 72	SEQ-CCVI(1254)				

~~Sequence Table (Back Injector):~~

~~No entries - empty table!~~

SP

Laboratory Name

SW-846 METHODS 8081A/8082 10/12/11

10.12.11

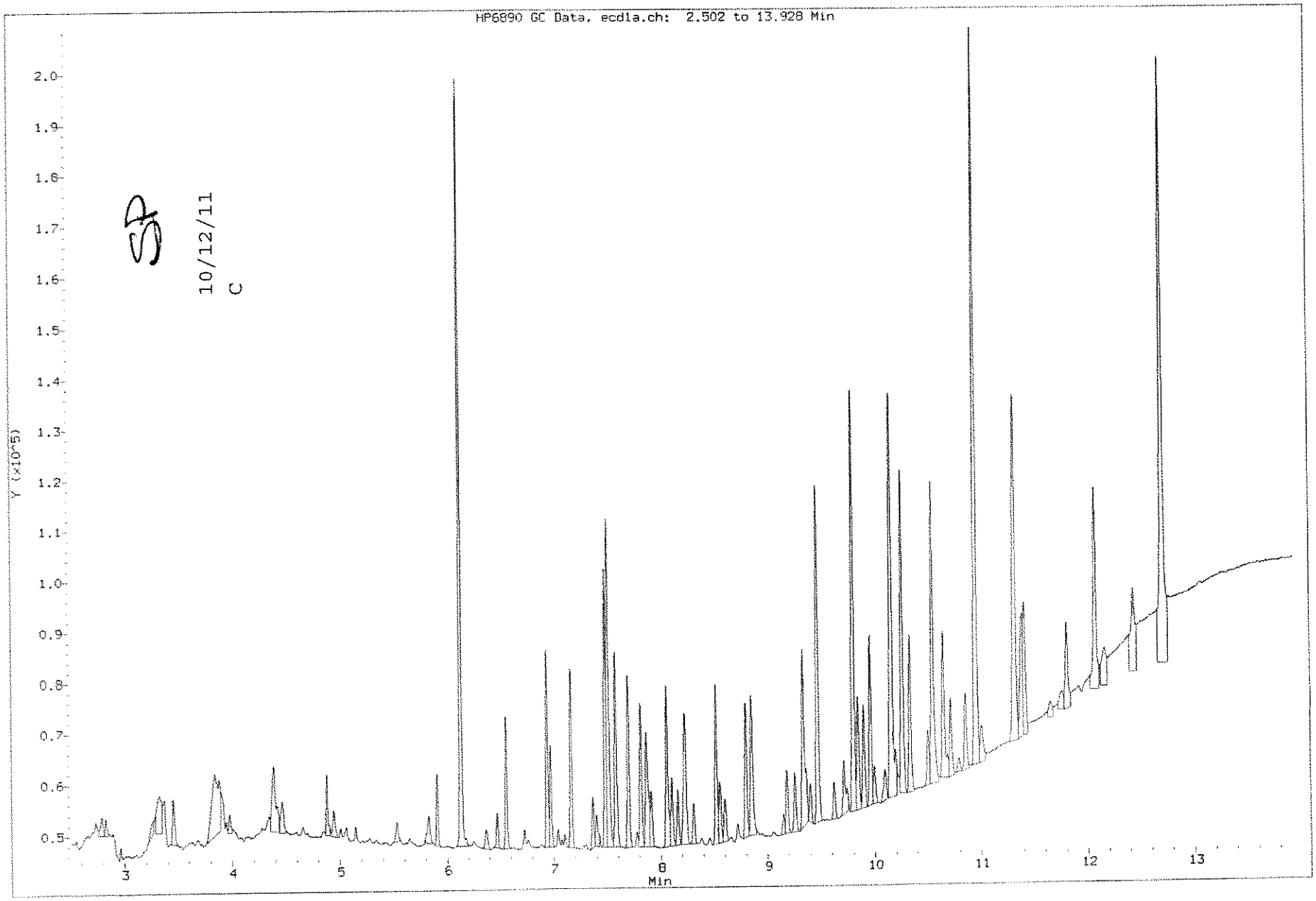
Data file : \\ELABNSH05\TARGET\chem\ecd3.i\101011.b\022F2201.D
Lab Smp Id: SEQ-CAL6
Inj Date : 10-OCT-2011 17:52
Operator : EM Inst ID: ecd3.i
Smp Info : SEQ-CAL6
Misc Info : ;;;;;;AR1660.sub
Comment :
Method : \\ELABNSH05\TARGET\chem\ecd3.i\101011.b\8081_82F.m
Meth Date : 11-Oct-2011 23:14 spatrona Quant Type: ESTD
Cal Date : 10-AUG-2011 19:35 Cal File: 002F0101.D
Als bottle: 22 Calibration Sample, Level: 6
Dil Factor: 1.00000
Integrator: Falcon Compound Sublist: AR1660.sub
Target Version: 4.04 Sample Matrix: None
Processing Host: TARGET14_VM

RT	EXP RT	DLT RT	RESPONSE	AMOUNTS CAL-AMT (ng/mL)	ON-COL (ng/mL)	TARGET RANGE	RATIO
29 PCB-1016					CAS #: 12674-11-2		
7.506	7.506	(0.000)	95682	50.0000	55.66	80.00- 120.00	100.00(M)
6.939	6.939	(0.000)	45615	50.0000	54.23	38.14- 57.21	47.67
7.163	7.163	(0.000)	43650	50.0000	53.68	36.50- 54.74	45.62
7.479	7.479	(0.000)	69545	50.0000	56.42	58.15- 87.22	72.68
7.578	7.578	(0.000)	55989			46.81- 70.22	58.52
7.696	7.696	(0.000)	44604	50.0000	53.98	37.29- 55.94	46.62
		Average of Peak Amounts =			54.79		
35 PCB-1260					CAS #: 11096-82-5		
10.953	10.953	(0.000)	@209335	50.0000	50.98	80.00- 120.00	100.00(M)
9.466	9.466	(0.000)	94123			35.97- 53.96	44.96
9.799	9.799	(0.000)	117429	50.0000	52.91	44.88- 67.32	56.10
10.158	10.158	(0.000)	125453	50.0000	51.38	47.94- 71.92	59.93
10.261	10.261	(0.000)	91428	50.0000	52.07	34.94- 52.41	43.68
10.549	10.549	(0.000)	97047			37.09- 55.63	46.36
11.319	11.319	(0.000)	129152			49.36- 74.04	61.70
12.071	12.071	(0.000)	56225	50.0000	52.04	21.49- 32.23	26.86
		Average of Peak Amounts =			51.88		

QC Flag Legend

M - Compound response manually integrated.

Data File: \\ELABNSH05\TARGET\chem\ecd3.i\101011.b\022F2201.D
Injection Date: 10-OCT-2011 17:52
Instrument: ecd3.i
Client Sample ID:



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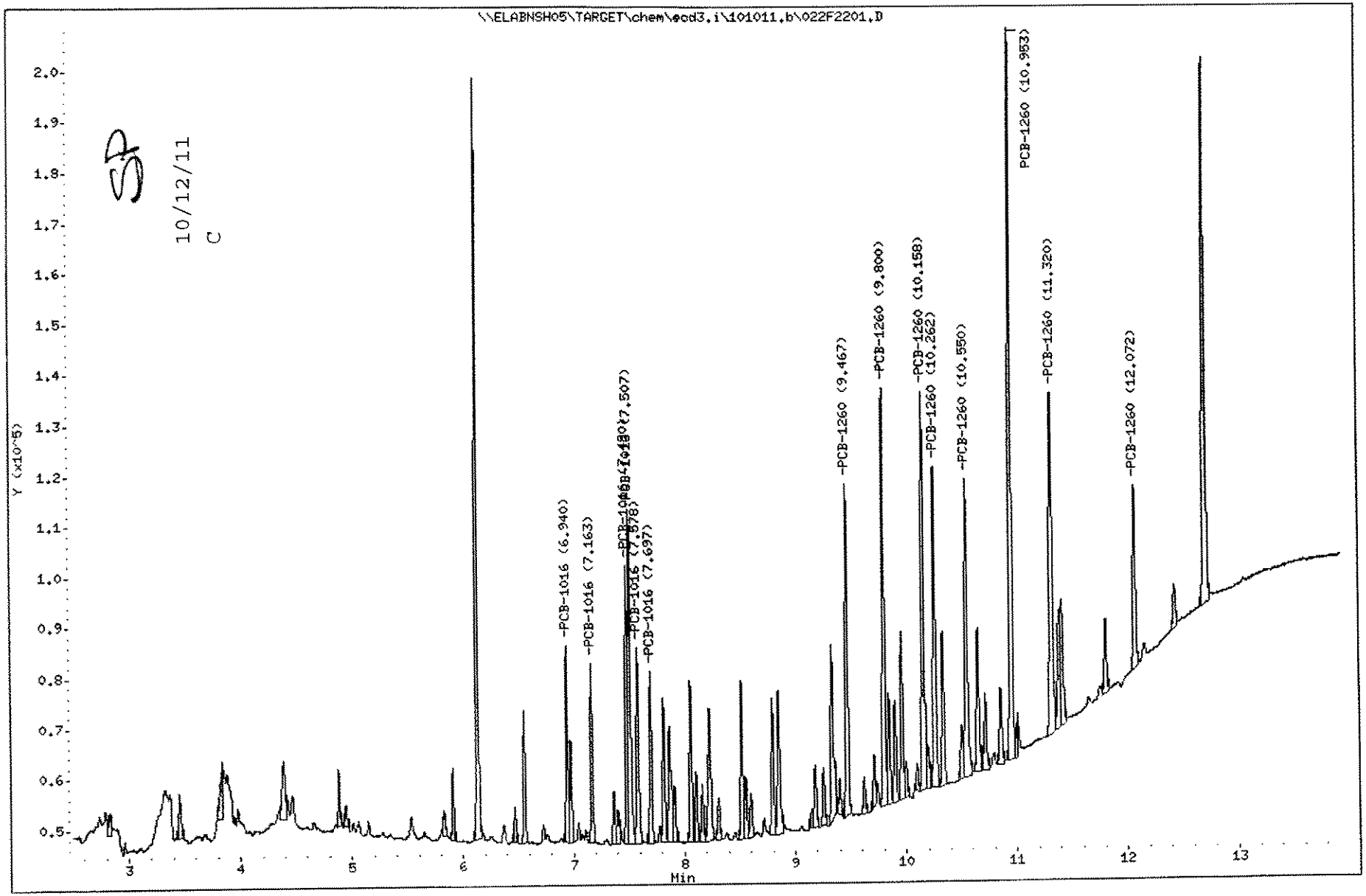
1109191

Data File: \\ELABNSH05\TARGET\chem\ecd3.i\101011.b\022F2201.D
Date : 10-OCT-2011 17:52
Client ID:
Sample Info: SEQ-CAL6

Column phase: ZB HR-1

Instrument: ecd3.i

Operator: EM
Column diameter: 0.32



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SP

Laboratory Name 10/12/11

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Data file : \\ELABNSH05\TARGET\chem\ecd3.i\101011.b\023F2301.D
Lab Smp Id: SEQ-CAL5
Inj Date : 10-OCT-2011 18:11
Operator : EM
Inst ID: ecd3.i
Smp Info : SEQ-CAL5
Misc Info : ;;;;;;AR1660.sub
Comment :
Method : \\ELABNSH05\TARGET\chem\ecd3.i\101011.b\8081_82F.m
Meth Date : 11-Oct-2011 23:15 spatrona
Quant Type: ESTD
Cal Date : 10-AUG-2011 19:35
Cal File: 002F0101.D
Als bottle: 23
Calibration Sample, Level: 5
Dil Factor: 1.00000
Integrator: Falcon
Compound Sublist: AR1660.sub
Target Version: 4.04
Sample Matrix: None
Processing Host: TARGET14_VM

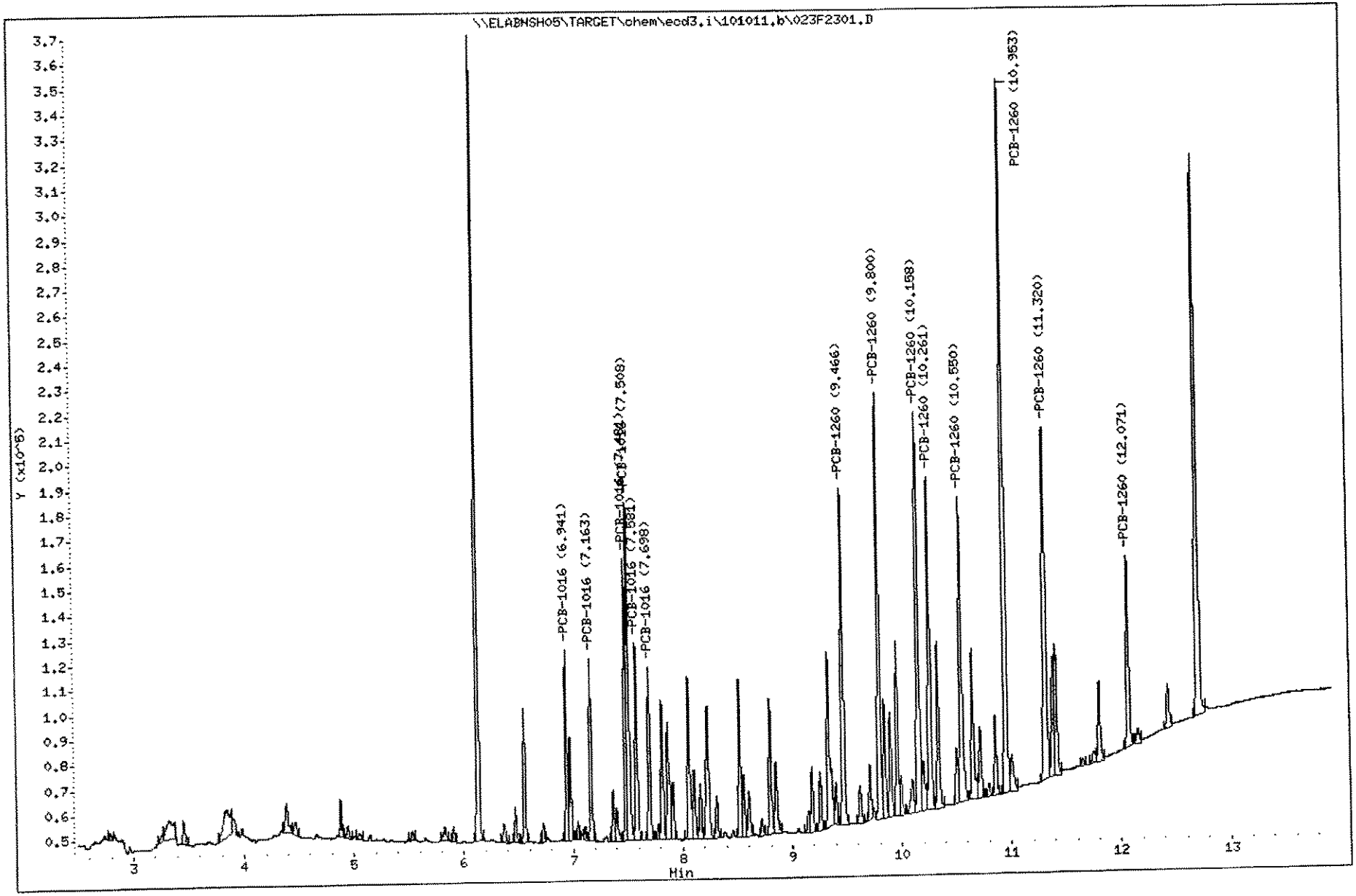
RT	EXP RT	DLT RT	RESPONSE	AMOUNTS CAL-AMT (ng/mL)	ON-COL (ng/mL)	TARGET RANGE	RATIO
29 PCB-1016					CAS #: 12674-11-2		
7.508	7.508	(0.000)	190385	100.000 X	110.7	80.00- 120.00	100.00
6.941	6.941	(0.000)	91671	100.000	109.0	38.52- 57.78	48.15
7.163	7.163	(0.000)	87338	100.000	107.4	36.70- 55.05	45.87
7.481	7.481	(0.000)	130902	100.000	106.2	55.01- 82.51	68.76
7.581	7.581	(0.000)	110489			46.43- 69.64	58.03
7.698	7.698	(0.000)	@ 90189	100.000	109.1	37.90- 56.85	47.37
		Average of Peak Amounts =			108.5		
35 PCB-1260					CAS #: 11096-82-5		
10.953	10.953	(0.000)	435365	100.000	106.0	80.00- 120.00	100.00
9.466	9.466	(0.000)	195022			35.84- 53.75	44.80
9.799	9.799	(0.000)	241688	100.000	108.9	44.41- 66.62	55.51
10.158	10.158	(0.000)	265237	100.000	108.6	48.74- 73.11	60.92
10.261	10.261	(0.000)	193688	100.000	110.3	35.59- 53.39	44.49
10.549	10.549	(0.000)	200029			36.76- 55.13	45.95
11.319	11.319	(0.000)	265479			48.78- 73.17	60.98
12.071	12.071	(0.000)	117037	100.000	108.3	21.51- 32.26	26.88
		Average of Peak Amounts =			108.4		

Data File: \\ELABNSH05\TARGET\chem\ecd3.i\101011.b\023F2301.D
Date : 10-OCT-2011 18:11
Client ID:
Sample Info: SEQ-CAL5

Column phase: ZB MR-1

Instrument: ecd3.i

Operator: EH
Column diameter: 0.32



SP

Laboratory Name 10/12/11

J.H. 10.12.11

SW-846 METHODS 8081A/8082

Data file : \\ELABNSH05\TARGET\chem\ecd3.i\101011.b\024F2401.D
Lab Smp Id: SEQ-CAL4
Inj Date : 10-OCT-2011 18:29
Operator : EM Inst ID: ecd3.i
Smp Info : SEQ-CAL4
Misc Info : ;;;;;;AR1660.sub
Comment :
Method : \\ELABNSH05\TARGET\chem\ecd3.i\101011.b\8081_82F.m
Meth Date : 11-Oct-2011 23:15 spatrona Quant Type: ESTD
Cal Date : 10-AUG-2011 19:35 Cal File: 002F0101.D
Als bottle: 24 Calibration Sample, Level: 4
Dil Factor: 1.00000
Integrator: Falcon Compound Sublist: AR1660.sub
Target Version: 4.04 Sample Matrix: None
Processing Host: TARGET14_VM

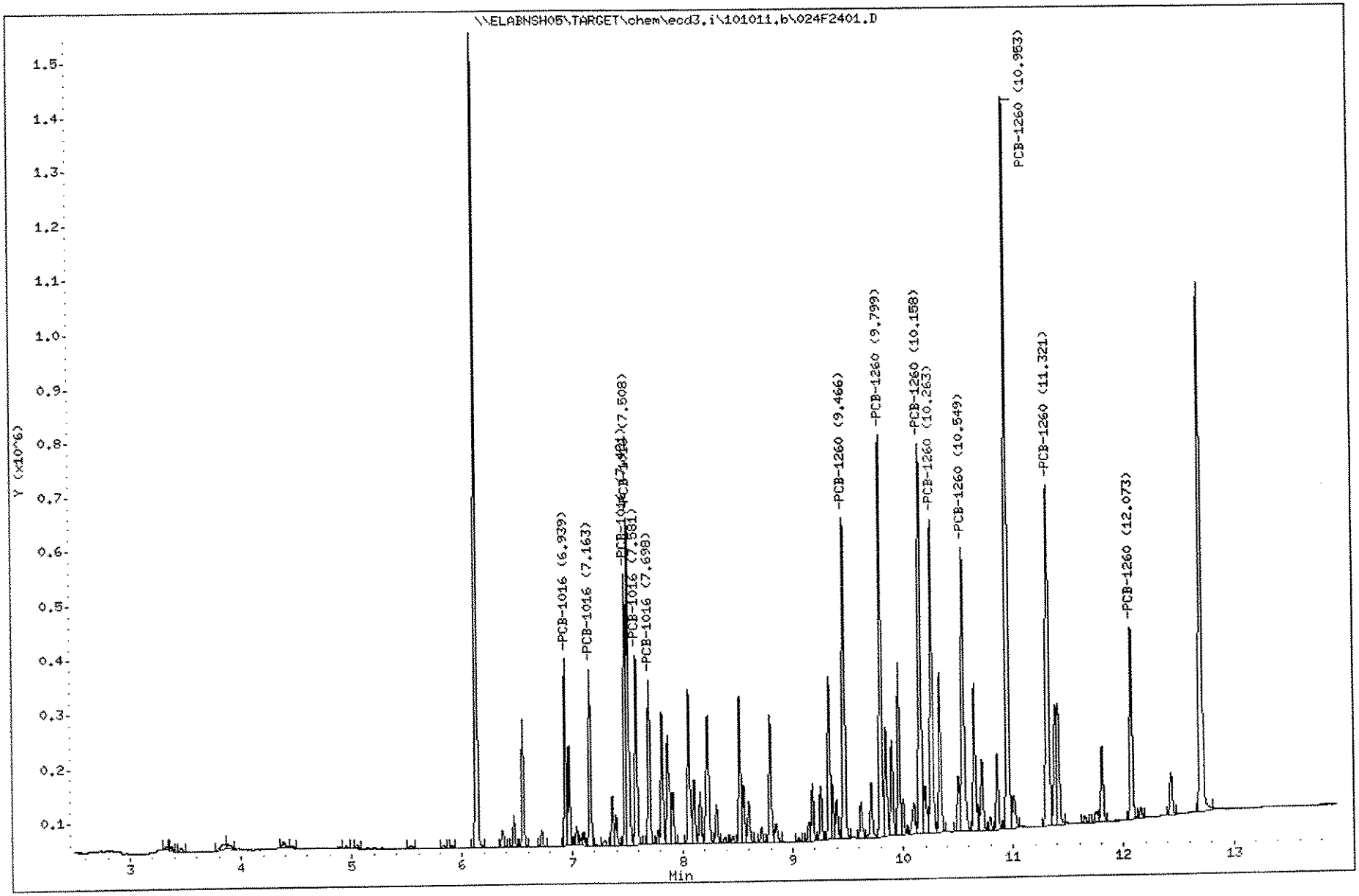
RT	EXP RT	DLT RT	RESPONSE	AMOUNTS CAL-AMT (ng/mL)	ON-COL (ng/mL)	TARGET RANGE	RATIO
29 PCB-1016					CAS #: 12674-11-2		
7.507	7.507	(0.000)	822136	500.000 X	478.2	80.00- 120.00	100.00
6.939	6.939	(0.000)	405550	500.000	482.2	39.46- 59.19	49.33
7.162	7.162	(0.000)	392371	500.000	482.5	38.18- 57.27	47.73
7.481	7.481	(0.000)	@ 585658	500.000	475.1	56.99- 85.48	71.24
7.581	7.581	(0.000)	480703			46.78- 70.16	58.47
7.697	7.697	(0.000)	397675	500.000	481.2	38.70- 58.05	48.37
		Average of Peak Amounts =			479.9		
35 PCB-1260					CAS #: 11096-82-5		
10.952	10.952	(0.000)	1975174	500.000	481.0	80.00- 120.00	100.00
9.466	9.466	(0.000)	847147			34.31- 51.47	42.89
9.799	9.799	(0.000)	1066406	500.000	480.5	43.19- 64.79	53.99
10.157	10.157	(0.000)	1176646	500.000	481.9	47.66- 71.49	59.57
10.262	10.262	(0.000)	846471	500.000	482.1	34.28- 51.43	42.86
10.549	10.549	(0.000)	887534			35.95- 53.92	44.93
11.321	11.321	(0.000)	1190753			48.23- 72.34	60.29
12.072	12.072	(0.000)	524085	500.000	485.1	21.23- 31.84	26.53
		Average of Peak Amounts =			482.1		

Data File: \\ELABNSH05\TARGET\chem\ecd3.i\101011.b\024F2401.D
Date : 10-OCT-2011 18:29
Client ID:
Sample Info: SEQ-CAL4

Column phase: ZB MR-1

Instrument: ecd3.i

Operator: EM
Column diameter: 0.32



SP

Laboratory Name 10/12/11

SW-846 METHODS 8081A/8082

JH. 10.12.11

Data file : \\ELABNSH05\TARGET\chem\ecd3.i\101011.b\025F2501.D
Lab Smp Id: SEQ-CAL3
Inj Date : 10-OCT-2011 18:48
Operator : EM Inst ID: ecd3.i
Smp Info : SEQ-CAL3
Misc Info : ;;;;;;AR1660.sub
Comment :
Method : \\ELABNSH05\TARGET\chem\ecd3.i\101011.b\8081_82F.m
Meth Date : 11-Oct-2011 23:15 spatrona Quant Type: ESTD
Cal Date : 10-AUG-2011 19:35 Cal File: 002F0101.D
Als bottle: 25 Calibration Sample, Level: 3
Dil Factor: 1.00000
Integrator: Falcon Compound Sublist: AR1660.sub
Target Version: 4.04 Sample Matrix: None
Processing Host: TARGET14_VM

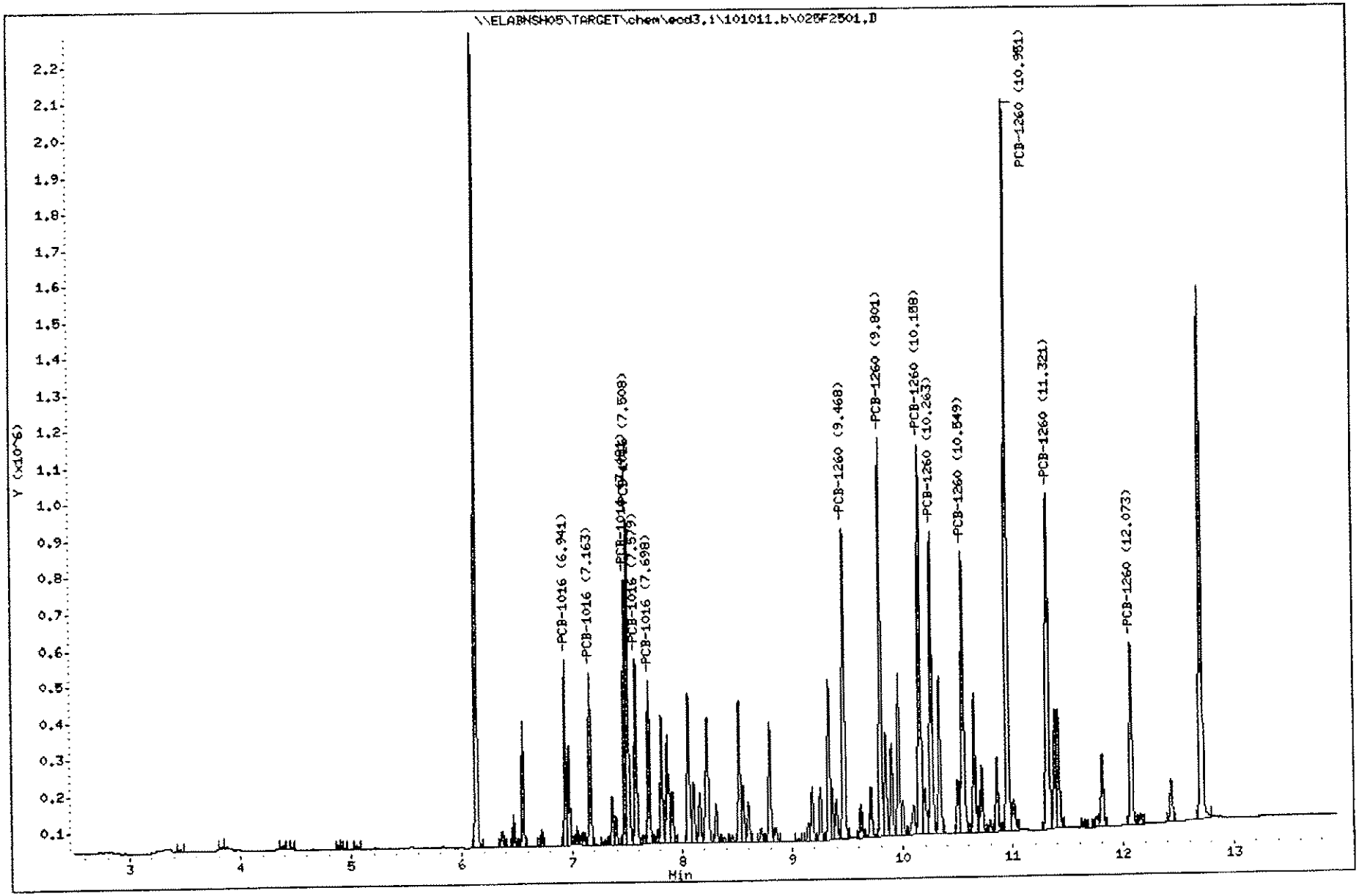
RT	EXP RT	DLT RT	RESPONSE	AMOUNTS CAL-AMT (ng/mL)	ON-COL (ng/mL)	TARGET RANGE	RATIO
29 PCB-1016					CAS #: 12674-11-2		
7.507	7.507	(0.000)	1209678	750.000 X	703.6	80.00- 120.00	100.00
6.940	6.940	(0.000)	594589	750.000	706.9	39.32- 58.98	49.15
7.162	7.162	(0.000)	@ 576573	750.000	709.0	38.13- 57.20	47.66
7.480	7.480	(0.000)	856186	750.000	694.6	56.62- 84.93	70.78
7.579	7.579	(0.000)	702910			46.49- 69.73	58.11
7.697	7.697	(0.000)	582297	750.000	704.7	38.51- 57.76	48.14
		Average of Peak Amounts =			703.8		
35 PCB-1260					CAS #: 11096-82-5		
10.950	10.950	(0.000)	2891064	750.000	704.0	80.00- 120.00	100.00
9.467	9.467	(0.000)	1215606			33.64- 50.46	42.05
9.800	9.800	(0.000)	1543321	750.000	695.3	42.71- 64.06	53.38
10.157	10.157	(0.000)	1708795	750.000	699.9	47.28- 70.93	59.11
10.262	10.262	(0.000)	1220272	750.000	695.0	33.77- 50.65	42.21
10.549	10.549	(0.000)	1281418			35.46- 53.19	44.32
11.320	11.320	(0.000)	1730764			47.89- 71.84	59.87
12.072	12.072	(0.000)	763737	750.000	706.9	21.13- 31.70	26.42
		Average of Peak Amounts =			700.2		

Data File: \\ELABNSHO5\TARGET\chem\ecd3.i\101011.b\025F2501.D
Date : 10-OCT-2011 18:48
Client ID:
Sample Info: SEQ-CAL3

Column phase: ZB MR-1

Instrument: ecd3.i

Operator: EM
Column diameter: 0.32



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SP

Laboratory Name 10/12/11

10.12.11

SW-846 METHODS 8081A/8082

Data file : \\ELABNSH05\TARGET\chem\ecd3.i\101011.b\026F2601.D
Lab Smp Id: SEQ-CAL2
Inj Date : 10-OCT-2011 19:07
Operator : EM Inst ID: ecd3.i
Smp Info : SEQ-CAL2
Misc Info : ;;;;;;AR1660.sub
Comment :
Method : \\ELABNSH05\TARGET\chem\ecd3.i\101011.b\8081_82F.m
Meth Date : 11-Oct-2011 23:16 spatrona Quant Type: ESTD
Cal Date : 10-AUG-2011 19:35 Cal File: 002F0101.D
Als bottle: 26 Calibration Sample, Level: 2
Dil Factor: 1.00000
Integrator: Falcon Compound Sublist: AR1660.sub
Target Version: 4.04 Sample Matrix: None
Processing Host: TARGET14_VM

RT	EXP RT	DLT RT	RESPONSE	AMOUNTS CAL-AMT (ng/mL)	ON-COL (ng/mL)	TARGET RANGE	RATIO
29 PCB-1016					CAS #: 12674-11-2		
7.507	7.507	(0.000)	1660668	1000.00	966.0	80.00- 120.00	100.00
6.940	6.940	(0.000)	@821788	1000.00	977.1	39.59- 59.38	49.49
7.162	7.162	(0.000)	799052	1000.00	982.6	38.49- 57.74	48.12
7.480	7.480	(0.000)	1181036	1000.00	958.1	56.89- 85.34	71.12
7.579	7.579	(0.000)	966289			46.55- 69.82	58.19
7.695	7.695	(0.000)	806625	1000.00	976.1	38.86- 58.29	48.57
		Average of Peak Amounts =			972		
35 PCB-1260					CAS #: 11096-82-5		
10.952	10.952	(0.000)	4119257	1000.00	1003	80.00- 120.00	100.00
9.465	9.465	(0.000)	1704473			33.10- 49.65	41.38
9.799	9.799	(0.000)	2187683	1000.00	985.7	42.49- 63.73	53.11
10.157	10.157	(0.000)	2437691	1000.00	998.4	47.34- 71.01	59.18
10.260	10.260	(0.000)	1737872	1000.00	989.8	33.75- 50.63	42.19
10.549	10.549	(0.000)	1808891			35.13- 52.70	43.91
11.319	11.319	(0.000)	2461556			47.81- 71.71	59.76
12.070	12.070	(0.000)	1078800	1000.00	998.5	20.95- 31.43	26.19
		Average of Peak Amounts =			995.1		

Data File: \\ELABHSH05\TARGET\chem\ecd3.i\101011.b\026F2601.D

Page 2

Date : 10-OCT-2011 19:07

Client ID:

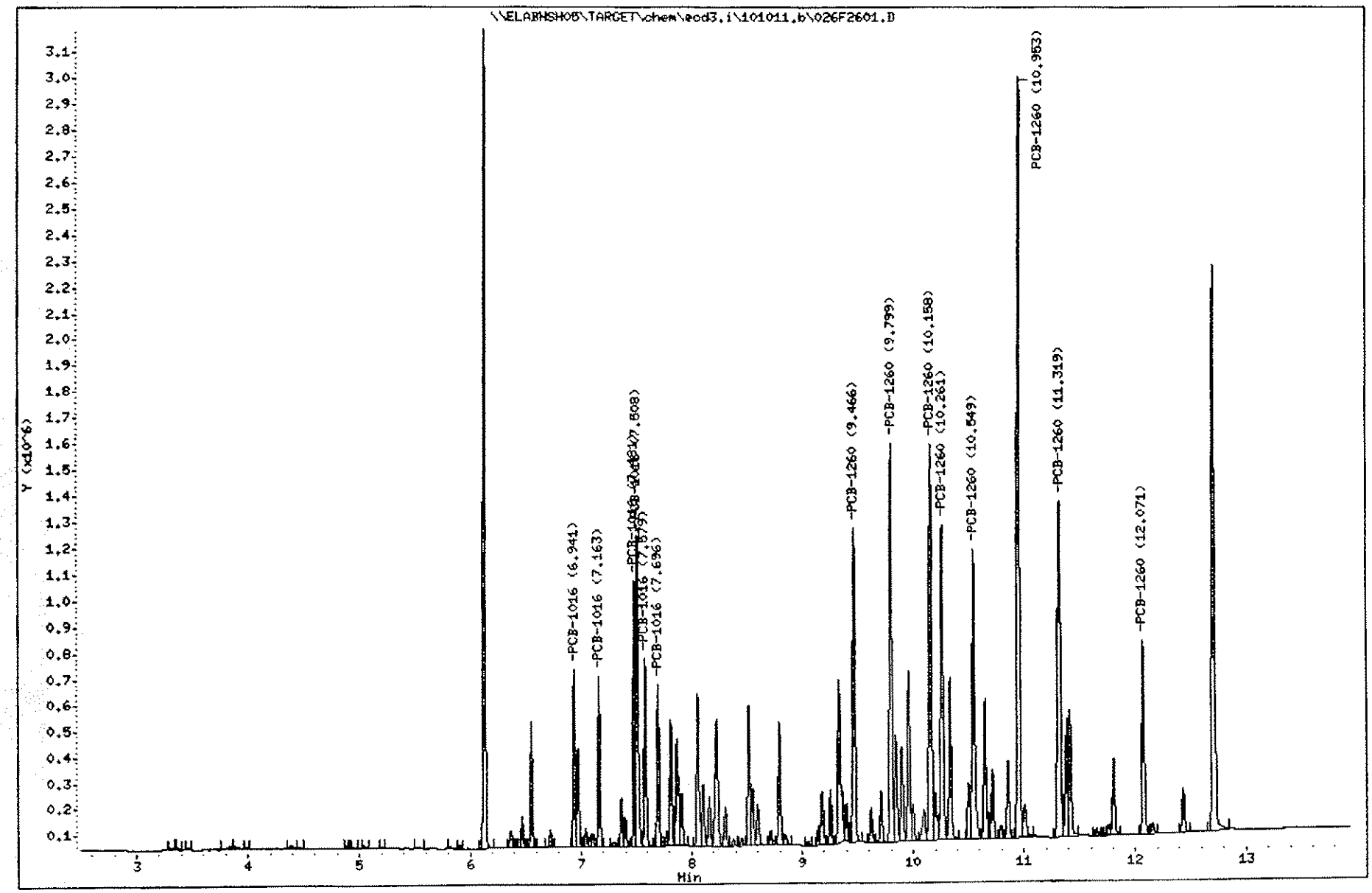
Instrument: ecd3.i

Sample Info: SEQ-CAL2

Operator: EH

Column phase: ZB MR-1

Column diameter: 0.32



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SP

Laboratory Name 10/12/11

JH. 10.12.11

SW-846 METHODS 8081A/8082

Data file : \\ELABNSH05\TARGET\chem\ecd3.i\101011.b\027F2701.D
Lab Smp Id: SEQ-CAL1
Inj Date : 10-OCT-2011 19:26
Operator : EM Inst ID: ecd3.i
Smp Info : SEQ-CAL1
Misc Info : ;;;;;;AR1660.sub
Comment :
Method : \\ELABNSH05\TARGET\chem\ecd3.i\101011.b\8081_82F.m
Meth Date : 11-Oct-2011 23:16 spatrona Quant Type: ESTD
Cal Date : 10-AUG-2011 19:35 Cal File: 002F0101.D
Als bottle: 27 Calibration Sample, Level: 1
Dil Factor: 1.00000
Integrator: Falcon Compound Sublist: AR1660.sub
Target Version: 4.04 Sample Matrix: None
Processing Host: TARGET14_VM

RT	EXP RT	DLT RT	RESPONSE	AMOUNTS CAL-AMT (ng/mL)	ON-COL (ng/mL)	TARGET RANGE	RATIO
29 PCB-1016					CAS #: 12674-11-2		
7.507	7.507	(0.000)	@ 3948987	2500.00	2297	80.00- 120.00	100.00
6.940	6.940	(0.000)	1979412	2500.00	2353	40.10- 60.15	50.12
7.163	7.163	(0.000)	1950852	2500.00	2399	39.52- 59.28	49.40
7.480	7.480	(0.000)	3004787	2500.00	2438	60.87- 91.31	76.09
7.580	7.580	(0.000)	2350979			47.63- 71.44	59.53
7.697	7.697	(0.000)	1964222	2500.00	2377	39.79- 59.69	49.74
		Average of Peak Amounts =			2373		
35 PCB-1260					CAS #: 11096-82-5		
10.953	10.953	(0.000)	10436302	2500.00	2541	80.00- 120.00	100.00
9.467	9.467	(0.000)	4238082			32.49- 48.73	40.61
9.800	9.800	(0.000)	5433330	2500.00	2448	41.65- 62.47	52.06
10.158	10.158	(0.000)	6046241	2500.00	2476	46.35- 69.52	57.93
10.262	10.262	(0.000)	4279022	2500.00	2437	32.80- 49.20	41.00
10.548	10.548	(0.000)	4466568			34.24- 51.36	42.80
11.320	11.320	(0.000)	6068104			46.52- 69.77	58.14
12.072	12.072	(0.000)	2605867	2500.00	2412	19.98- 29.96	24.97
		Average of Peak Amounts =			2463		

Data File: \\ELABNSH05\TARGET\chem\ecd3.i\101011.b\027F2701.D

Date : 10-OCT-2011 19:26

Client ID:

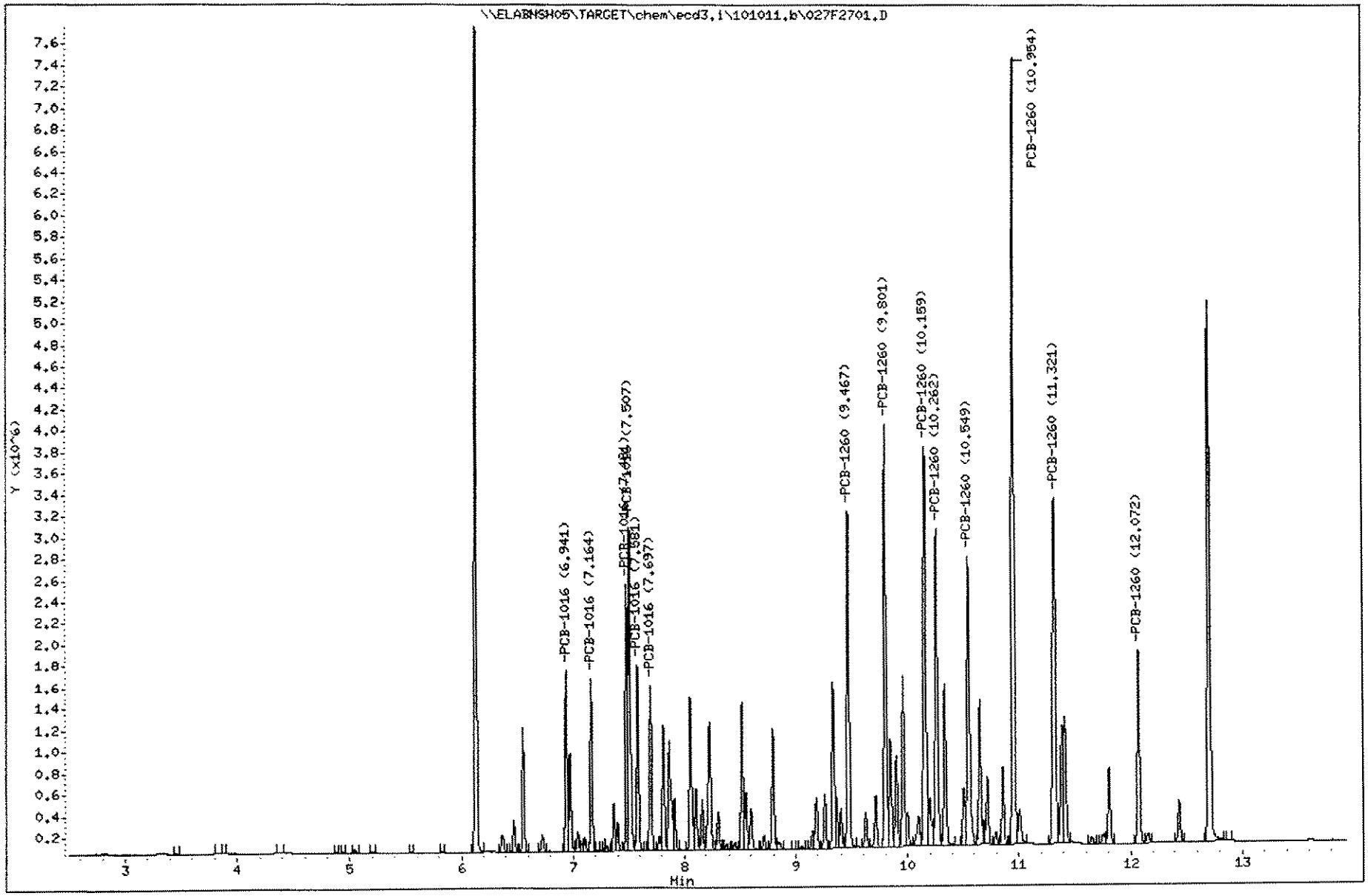
Instrument: ecd3.i

Sample Info: SEQ-CAL1

Operator: EM

Column phase: ZB MR-1

Column diameter: 0.32



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Laboratory Name

SW-846 METHODS 8081A/8082

10/12/11

J.H. 10.12.11

Data file : \\ELABNSH05\TARGET\chem\ecd3.i\101011.b\028F2801.D
Lab Smp Id: SEQ-ICV1
Inj Date : 10-OCT-2011 19:45
Operator : EM Inst ID: ecd3.i
Smp Info : SEQ-ICV1
Misc Info : ;;;;;;AR1660.sub
Comment :
Method : \\ELABNSH05\TARGET\chem\ecd3.i\101011.b\8081_82F.m
Meth Date : 11-Oct-2011 23:16 spatrona Quant Type: ESTD
Cal Date : 10-AUG-2011 19:35 Cal File: 002F0101.D
Als bottle: 28 Continuing Calibration Sample
Dil Factor: 1.00000
Integrator: Falcon Compound Sublist: AR1660.sub
Target Version: 4.04 Sample Matrix: None
Processing Host: TARGET14_VM

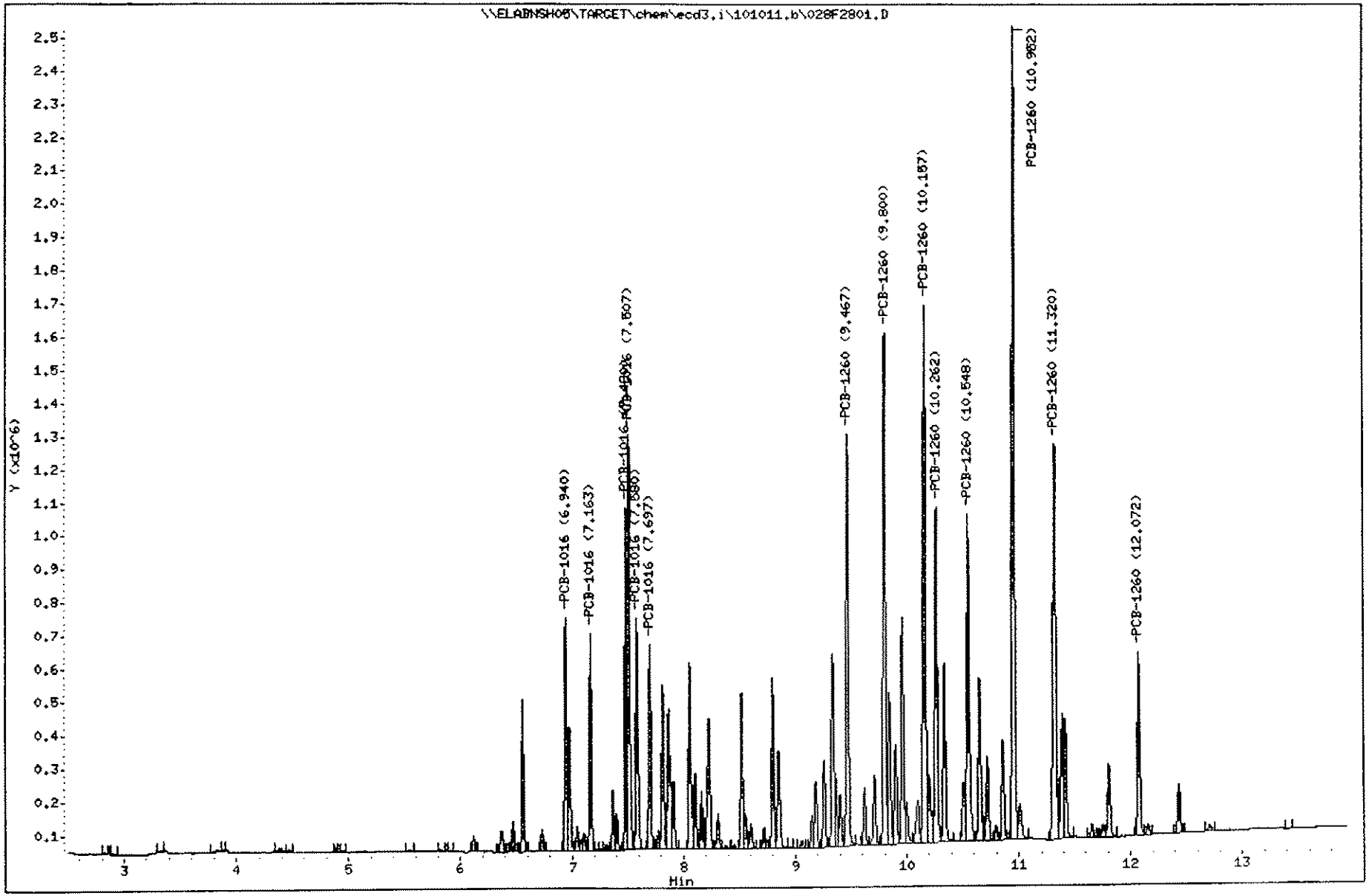
RT	EXP RT	DLT RT	RESPONSE	AMOUNTS CAL-AMT (ng/mL)	AMOUNTS ON-COL (ng/mL)	TARGET RANGE	RATIO
29 PCB-1016					CAS #: 12674-11-2		
7.506	7.506	(0.000)	1657742	1000.00	964.3	80.00- 120.00	100.00
6.940	6.940	(0.000)	834003	1000.00	991.6	40.25- 60.37	50.31
7.163	7.163	(0.000)	810844	1000.00	997.1	39.13- 58.70	48.91
7.480	7.480	(0.000)	1236746	1000.00	1003	59.68- 89.53	74.60
7.580	7.580	(0.000)	982429			47.41- 71.12	59.26
7.696	7.696	(0.000)	809824	1000.00	980.0	39.08- 58.62	48.85
		Average of Peak Amounts =			987.3		
35 PCB-1260					CAS #: 11096-82-5		
10.951	10.951	(0.000)	3622208	1000.00 X	882.0	80.00- 120.00	100.00
9.466	9.466	(0.000)	1712748			37.83- 56.74	47.28
9.800	9.800	(0.000)	2171945	1000.00	978.6	47.97- 71.95	59.96
10.156	10.156	(0.000)	2550106	1000.00	1044	56.32- 84.48	70.40
10.261	10.261	(0.000)	1461029	1000.00	832.1	32.27- 48.40	40.34
10.548	10.548	(0.000)	1656357			36.58- 54.87	45.73
11.320	11.320	(0.000)	2190567			48.38- 72.57	60.48
12.071	12.071	(0.000)	842541	1000.00	779.8	18.61- 27.91	23.26
		Average of Peak Amounts =			903.4		

Data File: \\ELABNSHOB\TARGET\chem\ecd3.i\101011.b\028F2801.D
Date : 10-OCT-2011 19:45
Client ID:
Sample Info: SEQ-ICV1

Column phase: ZB MR-1

Instrument: ecd3.i

Operator: EM
Column diameter: 0.32



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Laboratory Name 10/12/11

10-12-11

SW-846 METHODS 8081A/8082

Data file : \\ELABNSH05\TARGET\chem\ecd3.i\101011.b\029F2901.D
Lab Smp Id: SEQ-CAL7
Inj Date : 10-OCT-2011 20:03
Operator : EM
Smp Info : SEQ-CAL7
Misc Info : ;;;;;;AR1254.sub
Comment :
Method : \\ELABNSH05\TARGET\chem\ecd3.i\101011.b\8081_82F.m
Meth Date : 11-Oct-2011 23:17 spatrona
Cal Date : 10-AUG-2011 19:35
Als bottle: 29
Dil Factor: 1.00000
Integrator: Falcon
Target Version: 4.04
Processing Host: TARGET14_VM

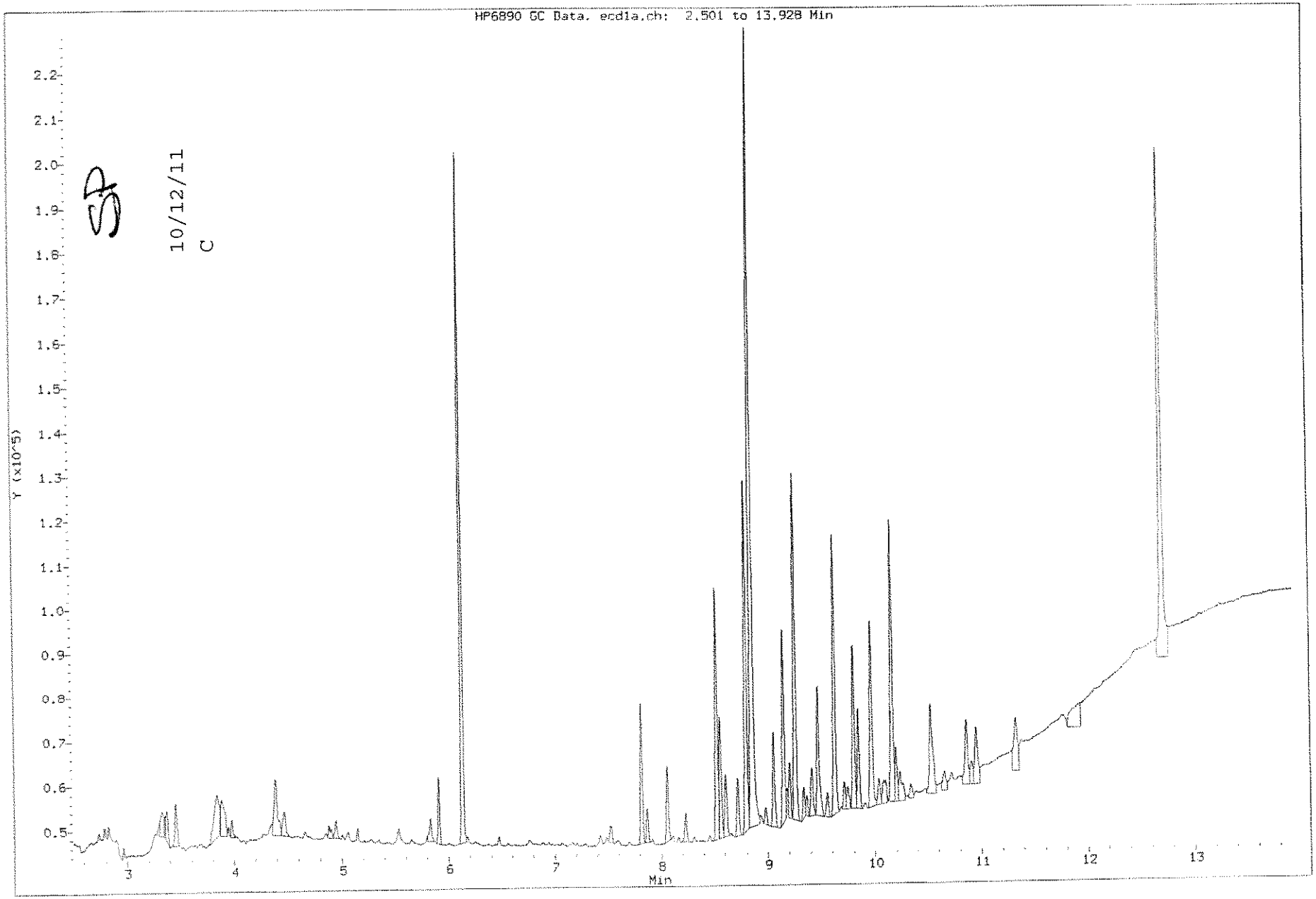
Inst ID: ecd3.i

Quant Type: ESTD
Cal File: 002F0101.D
Calibration Sample, Level: 6

Compound Sublist: AR1254.sub
Sample Matrix: None

RT	EXP RT	DLT RT	RESPONSE	AMOUNTS CAL-AMT (ng/mL)	ON-COL (ng/mL)	TARGET RANGE	RATIO
34 PCB-1254					CAS #: 11097-69-1		
9.254	9.254	(0.000)	@115344	50.0000	52.73	80.00- 120.00	100.00
7.811	7.811	(0.000)	39806	50.0000	54.44	27.61- 41.41	34.51
8.521	8.521	(0.000)	75574			52.42- 78.62	65.52
8.796	8.796	(0.000)	114110	50.0000	54.37	79.14- 118.72	98.93
9.621	9.621	(0.000)	92790	50.0000	54.44	64.36- 96.54	80.45
10.159	10.159	(0.000)	96720	50.0000	53.29	67.08- 100.62	83.85
		Average of Peak Amounts =			53.85		

Data File: \\ELABNSHO5\TARGET\chem\ecd3.i\101011.b\029F2901.D
Injection Date: 10-OCT-2011 20:03
Instrument: ecd3.i
Client Sample ID:

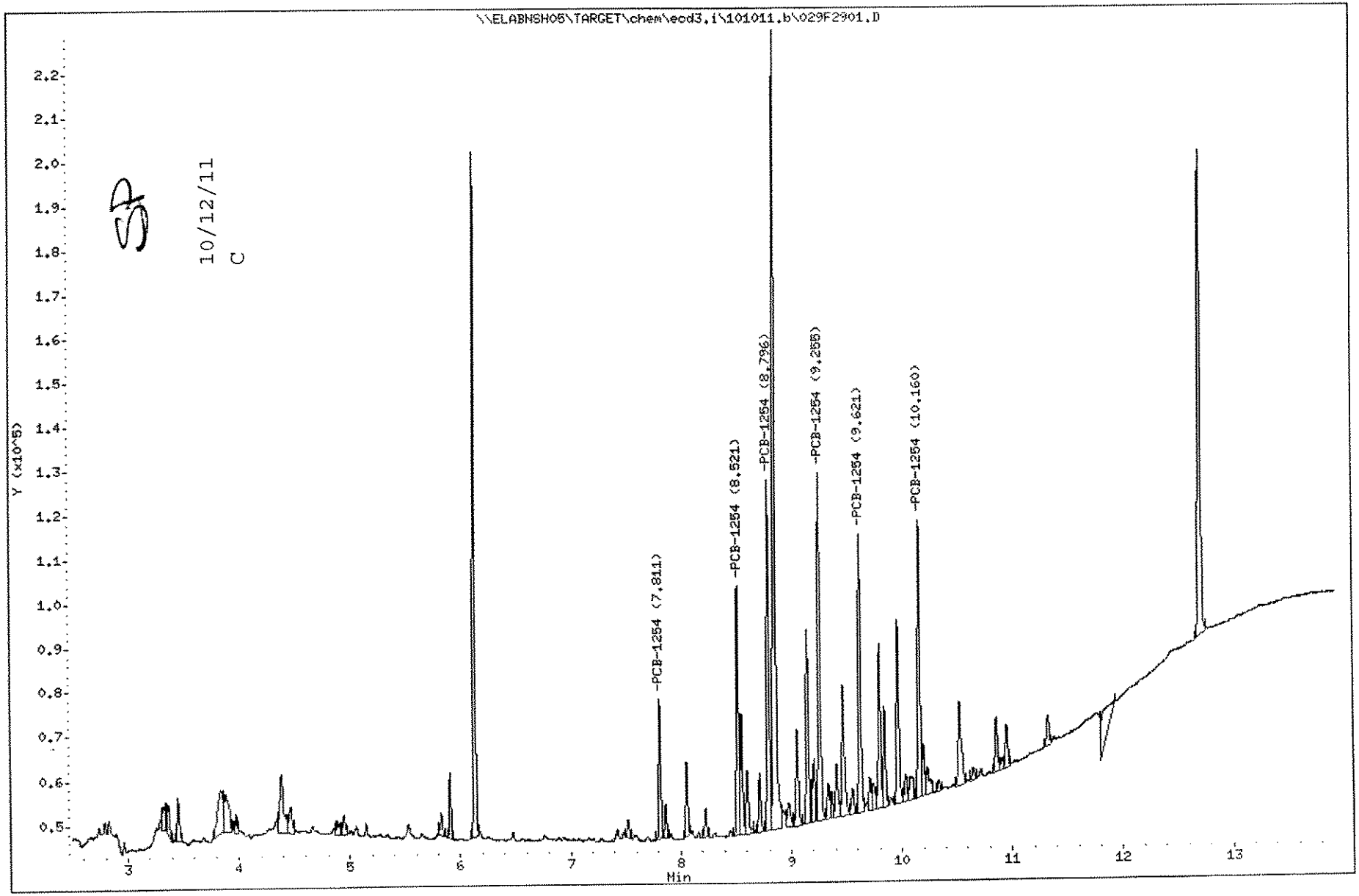


Data File: \\ELABNSH05\TARGET\chem\ecd3.i\101011.b\029F2901.D
Date : 10-OCT-2011 20:03
Client ID:
Sample Info: SEQ-CAL7

Column phase: ZB MR-1

Instrument: ecd3.i

Operator: EM
Column diameter: 0.32



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SP

Laboratory Name

10/12/11

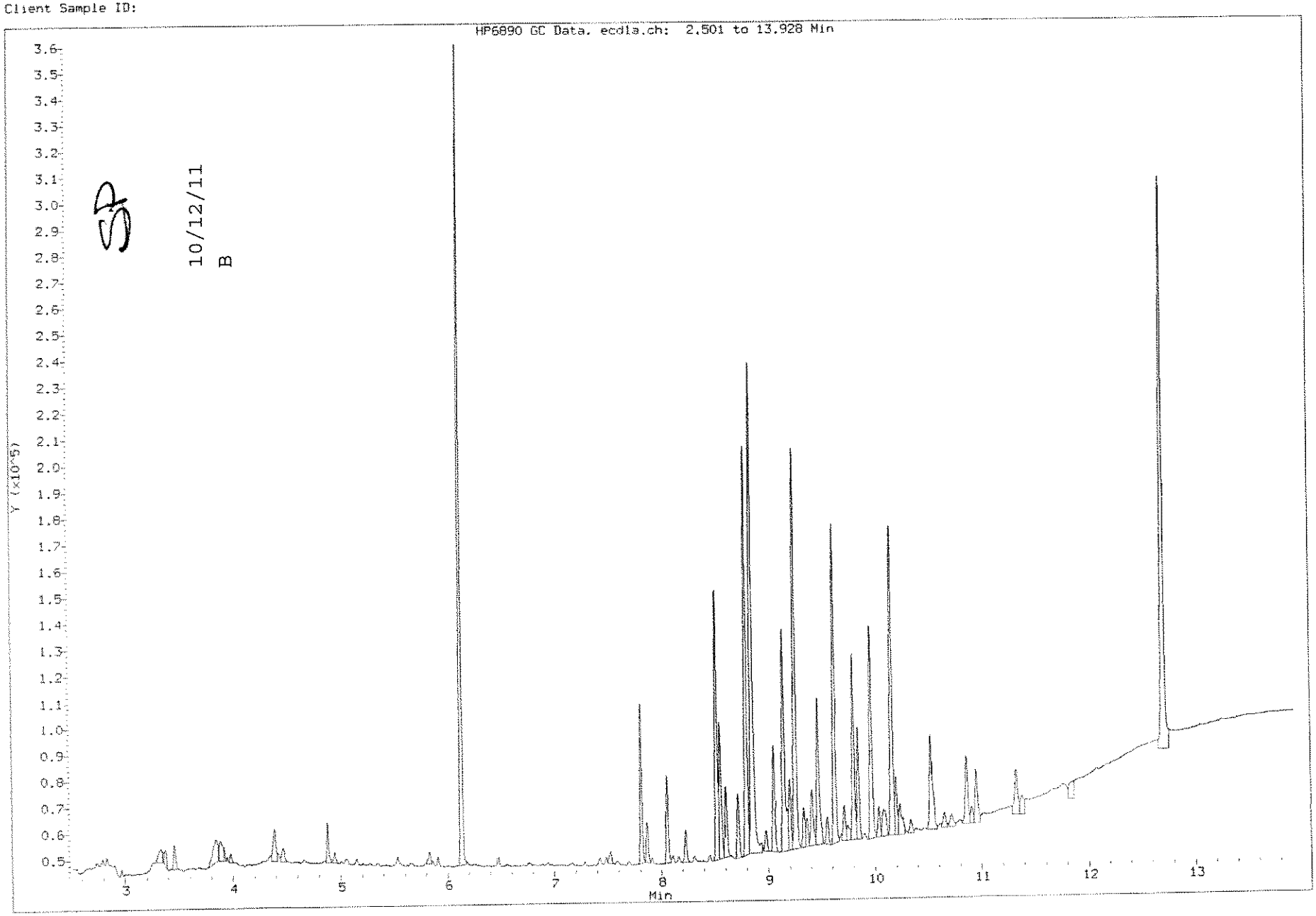
SW-846 METHODS 8081A/8082

J.H. 10.12.11

Data file : \\ELABNSH05\TARGET\chem\ecd3.i\101011.b\030F3001.D
Lab Smp Id: SEQ-CAL8
Inj Date : 10-OCT-2011 20:22
Operator : EM
Inst ID: ecd3.i
Smp Info : SEQ-CAL8
Misc Info : ;;;;;;AR1254.sub
Comment :
Method : \\ELABNSH05\TARGET\chem\ecd3.i\101011.b\8081_82F.m
Meth Date : 11-Oct-2011 23:17 spatrona
Quant Type: ESTD
Cal Date : 10-AUG-2011 19:35
Cal File: 002F0101.D
Als bottle: 30
Calibration Sample, Level: 5
Dil Factor: 1.00000
Integrator: Falcon
Compound Sublist: AR1254.sub
Target Version: 4.04
Sample Matrix: None
Processing Host: TARGET14_VM

RT	EXP RT	DLT RT	RESPONSE	AMOUNTS CAL-AMT (ng/mL)	AMOUNTS ON-COL (ng/mL)	TARGET RANGE	RATIO
34 PCB-1254					CAS #: 11097-69-1		
9.256	9.256	(0.000)	220707	100.000	100.9	80.00- 120.00	100.00
7.811	7.811	(0.000)	76845	100.000	105.1	27.85- 41.78	34.82
8.521	8.521	(0.000)	143694			52.08- 78.13	65.11
8.796	8.796	(0.000)	214803	100.000	102.3	77.86- 116.79	97.32
9.621	9.621	(0.000)	173330	100.000	101.7	62.83- 94.24	78.53
10.159	10.159	(0.000)	@ 183598	100.000	101.2	66.55- 99.82	83.19
		Average of Peak Amounts =			102.2		

Data File: \\ELABNSH05\TARGET\chem\ecd3.i\101011.b\030F3001.D
Injection Date: 10-OCT-2011 20:22
Instrument: ecd3.i
Client Sample ID:



1402

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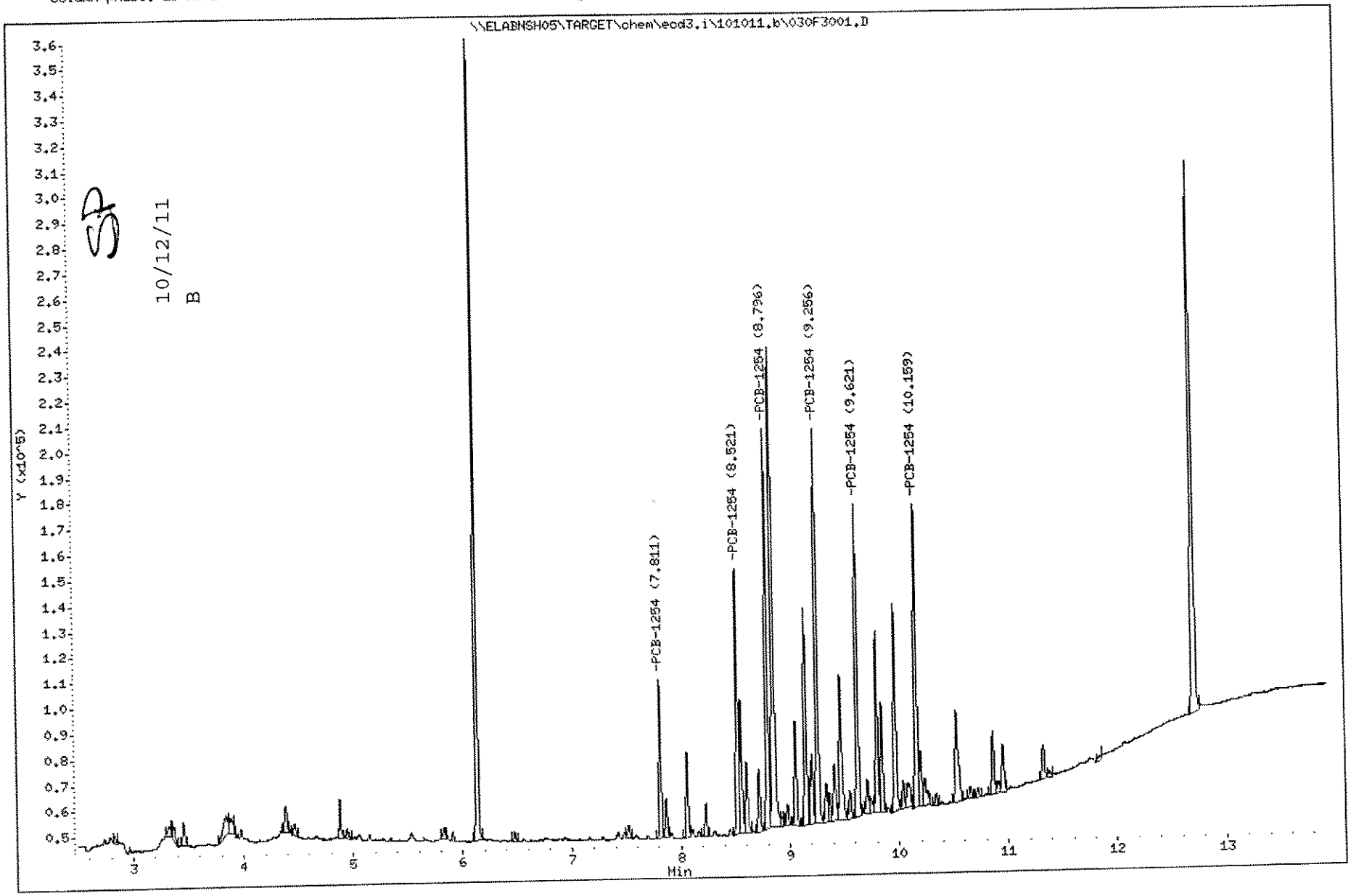
Data File: \\ELABNSH05\TARGET\chem\ecd3.i\101011.b\030F3001.D
Date : 10-OCT-2011 20:22
Client ID:
Sample Info: SEQ-CAL8

Column phase: ZB MR-1

Instrument: ecd3.i

Operator: EH
Column diameter: 0.32



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10/12/11

J.H. 10.12.11

Laboratory Name

SW-846 METHODS 8081A/8082

Data file : \\ELABNSH05\TARGET\chem\ecd3.i\101011.b\031F3101.D
Lab Smp Id: SEQ-CAL9
Inj Date : 10-OCT-2011 20:41
Operator : EM Inst ID: ecd3.i
Smp Info : SEQ-CAL9
Misc Info : ;;;;;;AR1254.sub
Comment :
Method : \\ELABNSH05\TARGET\chem\ecd3.i\101011.b\8081_82F.m
Meth Date : 11-Oct-2011 23:17 spatrona Quant Type: ESTD
Cal Date : 10-AUG-2011 19:35 Cal File: 002F0101.D
Als bottle: 31 Calibration Sample, Level: 4
Dil Factor: 1.00000
Integrator: Falcon Compound Sublist: AR1254.sub
Target Version: 4.04 Sample Matrix: None
Processing Host: TARGET14_VM

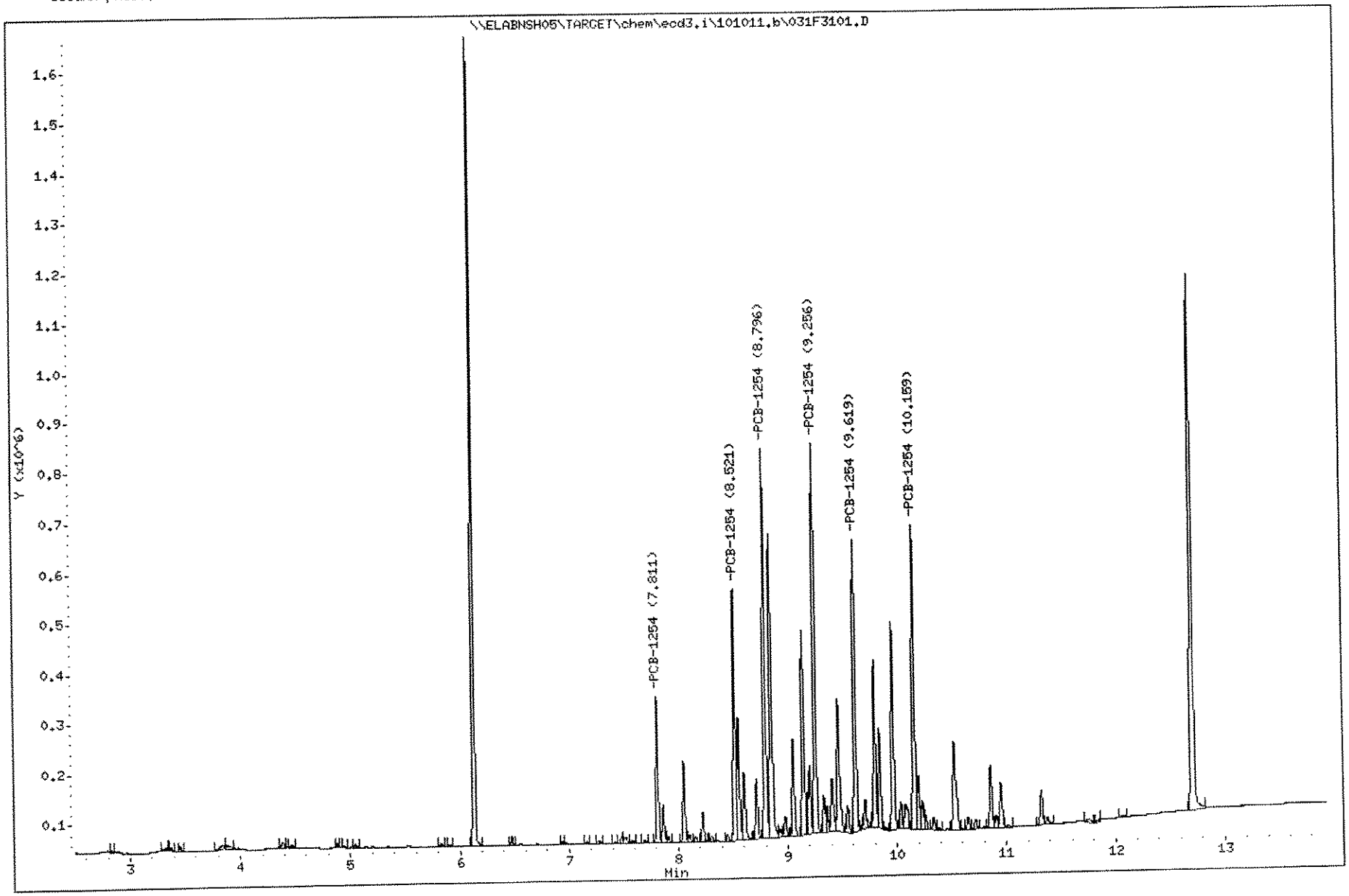
RT	EXP RT	DLT RT	RESPONSE	AMOUNTS CAL-AMT (ng/mL)	AMOUNTS ON-COL (ng/mL)	TARGET RANGE	RATIO
34 PCB-1254					CAS #: 11097-69-1		
9.255	9.255	(0.000)	1094607	500.000	500.4	80.00- 120.00	100.00
7.810	7.810	(0.000)	368627	500.000	504.1	26.94- 40.41	33.68
8.520	8.520	(0.000)	674145			49.27- 73.91	61.59
8.795	8.795	(0.000)	1058071	500.000	504.1	77.33- 115.99	96.66
9.618	9.618	(0.000)	@ 851165	500.000	499.4	62.21- 93.31	77.76
10.158	10.158	(0.000)	917320	500.000 X	505.4	67.04- 100.56	83.80
		Average of Peak Amounts =			502.7		

Data File: \\ELABNSH05\TARGET\chem\ecd3.i\101011.b\031F3101.D
Date : 10-OCT-2011 20:41
Client ID:
Sample Info: SEQ-CAL9

Column phase: ZB MR-1

Instrument: ecd3.i

Operator: EM
Column diameter: 0.32



1405

1109191

SP

10/12/11

J.H. 10.12.11

Laboratory Name

SW-846 METHODS 8081A/8082

Data file : \\ELABNSH05\TARGET\chem\ecd3.i\101011.b\032F3201.D
Lab Smp Id: SEQ-CALA
Inj Date : 10-OCT-2011 21:00
Operator : EM
Smp Info : SEQ-CALA
Misc Info : ;;;;;;AR1254.sub
Comment :
Method : \\ELABNSH05\TARGET\chem\ecd3.i\101011.b\8081_82F.m
Meth Date : 11-Oct-2011 23:17 spatrona
Cal Date : 10-AUG-2011 19:35
Als bottle: 32
Dil Factor: 1.00000
Integrator: Falcon
Target Version: 4.04
Processing Host: TARGET14_VM

Inst ID: ecd3.i

Quant Type: ESTD
Cal File: 002F0101.D
Calibration Sample, Level: 3

Compound Sublist: AR1254.sub
Sample Matrix: None

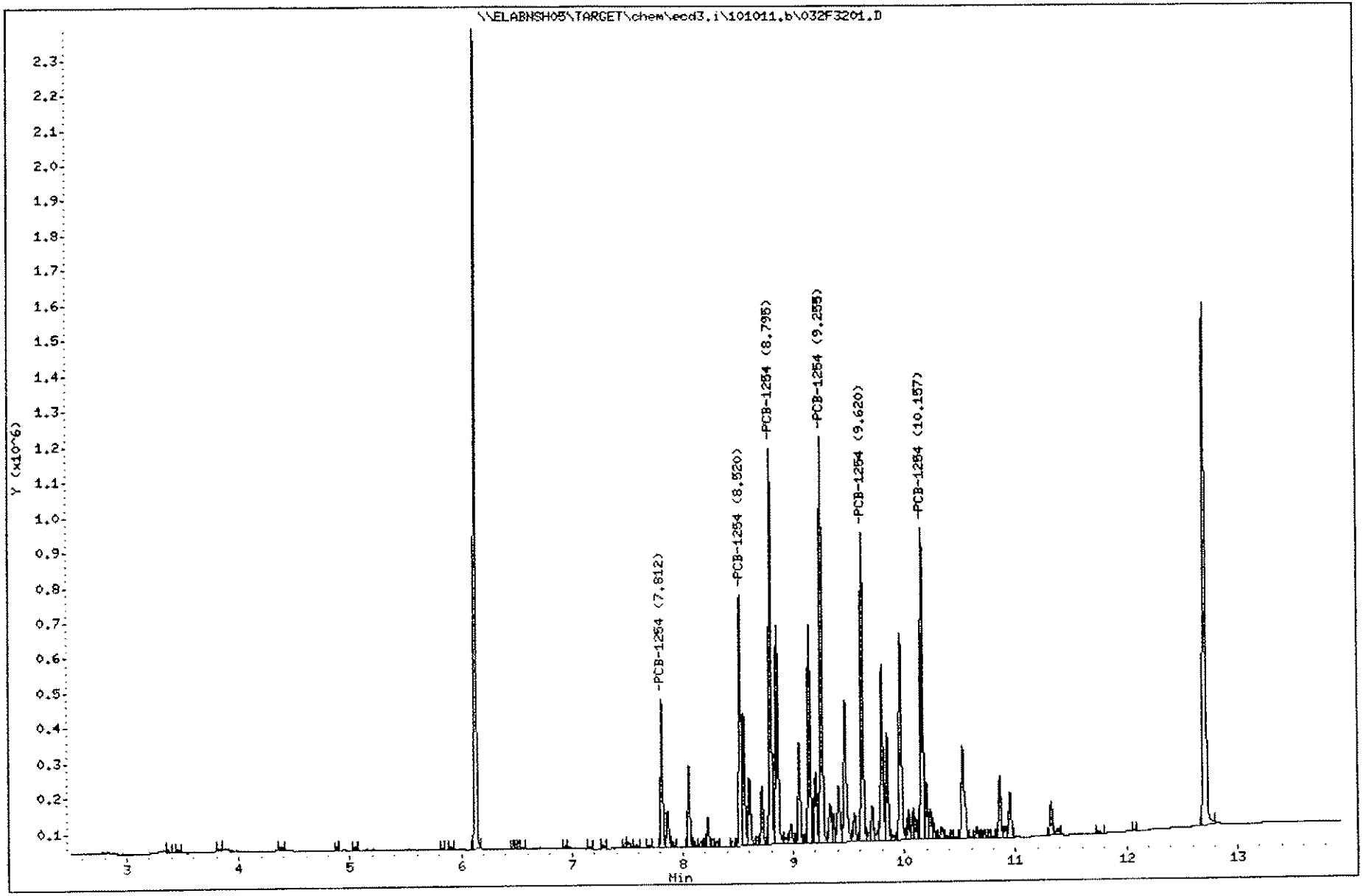
RT	EXP RT	DLT RT	RESPONSE	AMOUNTS CAL-AMT (ng/mL)	ON-COL (ng/mL)	TARGET RANGE	RATIO
34 PCB-1254					CAS #: 11097-69-1		
9.255	9.255	(0.000)	1618761	750.000	740.1	80.00- 120.00	100.00
7.812	7.812	(0.000)	532395	750.000	728.0	26.31- 39.47	32.89
8.520	8.520	(0.000)	988183			48.84- 73.25	61.05
8.795	8.795	(0.000)	@1528776	750.000	728.4	75.55- 113.33	94.44
9.620	9.620	(0.000)	1250238	750.000	733.5	61.79- 92.68	77.23
10.157	10.157	(0.000)	1334354	750.000 X	735.2	65.94- 98.92	82.43
		Average of Peak Amounts =			733.1		

Data File: \\ELABNSH05\TARGET\chem\ecd3.i\101011.b\032F3201.D
Date : 10-OCT-2011 21:00
Client ID:
Sample Info: SEQ-CALA

Column phase: ZB MR-1

Instrument: ecd3.i

Operator: EM
Column diameter: 0.32



SP

10/12/11

J.H. 10.12.11

Laboratory Name

SW-846 METHODS 8081A/8082

Data file : \\ELABNSH05\TARGET\chem\ecd3.i\101011.b\033F3301.D
Lab Smp Id: SEQ-CALB
Inj Date : 10-OCT-2011 21:19
Operator : EM Inst ID: ecd3.i
Smp Info : SEQ-CALB
Misc Info : ;;;;;;AR1254.sub
Comment :
Method : \\ELABNSH05\TARGET\chem\ecd3.i\101011.b\8081_82F.m
Meth Date : 11-Oct-2011 23:18 spatrona Quant Type: ESTD
Cal Date : 10-AUG-2011 19:35 Cal File: 002F0101.D
Als bottle: 33 Calibration Sample, Level: 2
Dil Factor: 1.00000
Integrator: Falcon Compound Sublist: AR1254.sub
Target Version: 4.04 Sample Matrix: None
Processing Host: TARGET14_VM

RT	EXP RT	DLT RT	RESPONSE	AMOUNTS CAL-AMT (ng/mL)	AMOUNTS ON-COL (ng/mL)	TARGET RANGE	RATIO
34 PCB-1254					CAS #: 11097-69-1		
9.253	9.253	(0.000)	2132445	1000.00	974.9	80.00- 120.00	100.00
7.810	7.810	(0.000)	@ 696675	1000.00	952.7	26.14- 39.20	32.67
8.520	8.520	(0.000)	1292172			48.48- 72.71	60.60
8.795	8.795	(0.000)	2013552	1000.00	959.4	75.54- 113.31	94.42
9.620	9.620	(0.000)	1633620	1000.00	958.5	61.29- 91.93	76.61
10.158	10.158	(0.000)	1750760	1000.00	964.6	65.68- 98.52	82.10

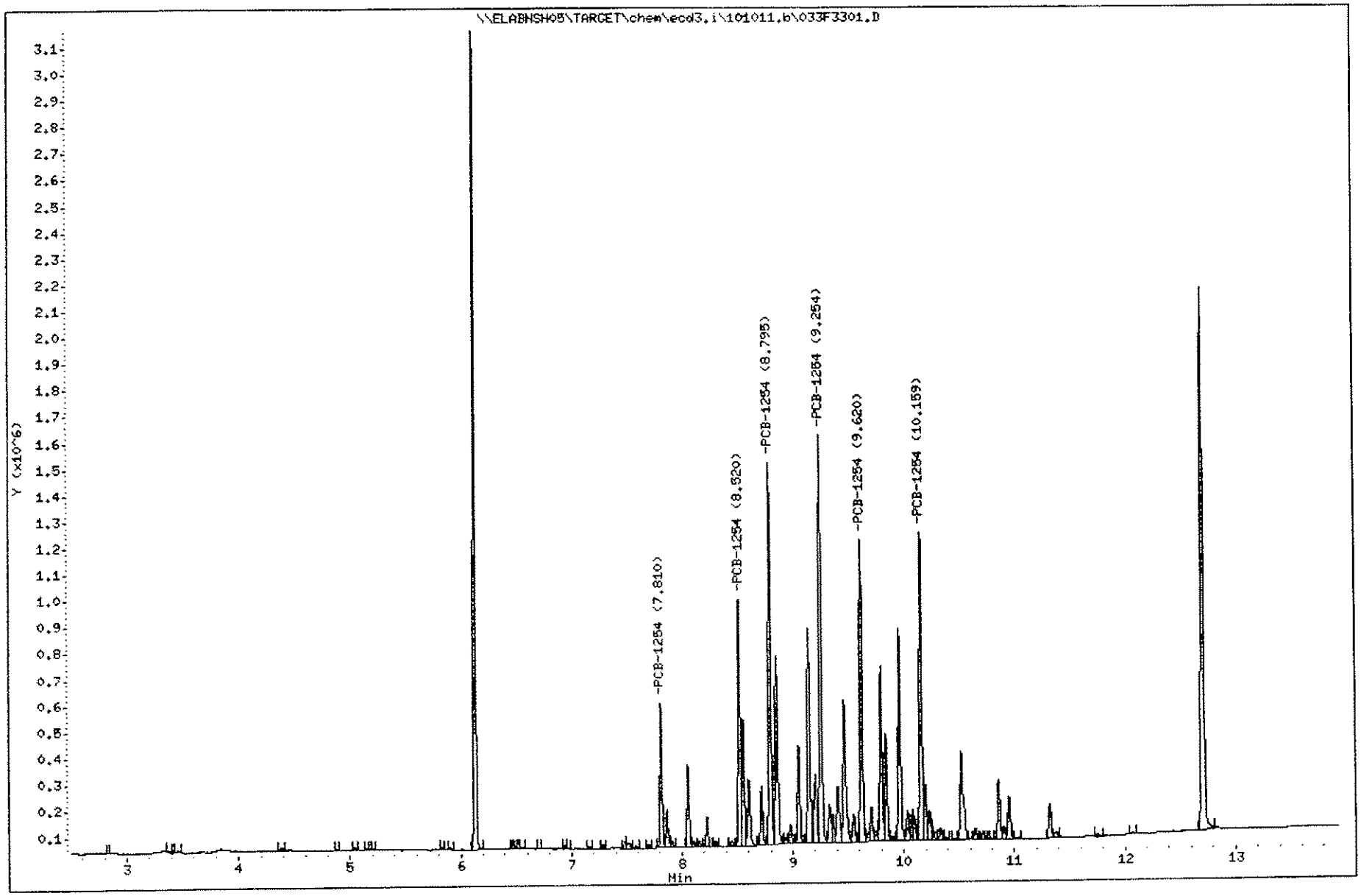
Average of Peak Amounts = 962

Data File: \\ELABNSH05\TARGET\chem\ecd3.i\101011.b\033F3301.D
Date : 10-OCT-2011 21:19
Client ID:
Sample Info: SEQ-CALB

Instrument: ecd3.i

Operator: EM
Column diameter: 0.32

Column phase: ZB MR-1



SP

Laboratory Name 10/12/11

D.H. 10.12.11

SW-846 METHODS 8081A/8082

Data file : \\ELABNSH05\TARGET\chem\ecd3.i\101011.b\034F3401.D
Lab Smp Id: SEQ-CALC
Inj Date : 10-OCT-2011 21:37
Operator : EM Inst ID: ecd3.i
Smp Info : SEQ-CALC
Misc Info : ;;;;;;AR1254.sub
Comment :
Method : \\ELABNSH05\TARGET\chem\ecd3.i\101011.b\8081_82F.m
Meth Date : 11-Oct-2011 23:18 spatrona Quant Type: ESTD
Cal Date : 10-AUG-2011 19:35 Cal File: 002F0101.D
Als bottle: 34 Calibration Sample, Level: 1
Dil Factor: 1.00000
Integrator: Falcon Compound Sublist: AR1254.sub
Target Version: 4.04 Sample Matrix: None
Processing Host: TARGET14_VM

RT	EXP RT	DLT RT	RESPONSE	AMOUNTS CAL-AMT (ng/mL)	AMOUNTS ON-COL (ng/mL)	TARGET RANGE	RATIO
34 PCB-1254					CAS #: 11097-69-1		
9.255	9.255	(0.000)	@5323713	2500.00	2434	80.00- 120.00	100.00
7.810	7.810	(0.000)	1697913	2500.00	2322	25.51- 38.27	31.89
8.520	8.520	(0.000)	3141552			47.21- 70.81	59.01
8.795	8.795	(0.000)	4987038	2500.00	2376	74.94- 112.41	93.68
9.620	9.620	(0.000)	4085906	2500.00	2397	61.40- 92.10	76.75
10.158	10.158	(0.000)	4387588	2500.00 X	2417	65.93- 98.90	82.42
		Average of Peak Amounts =			2389		

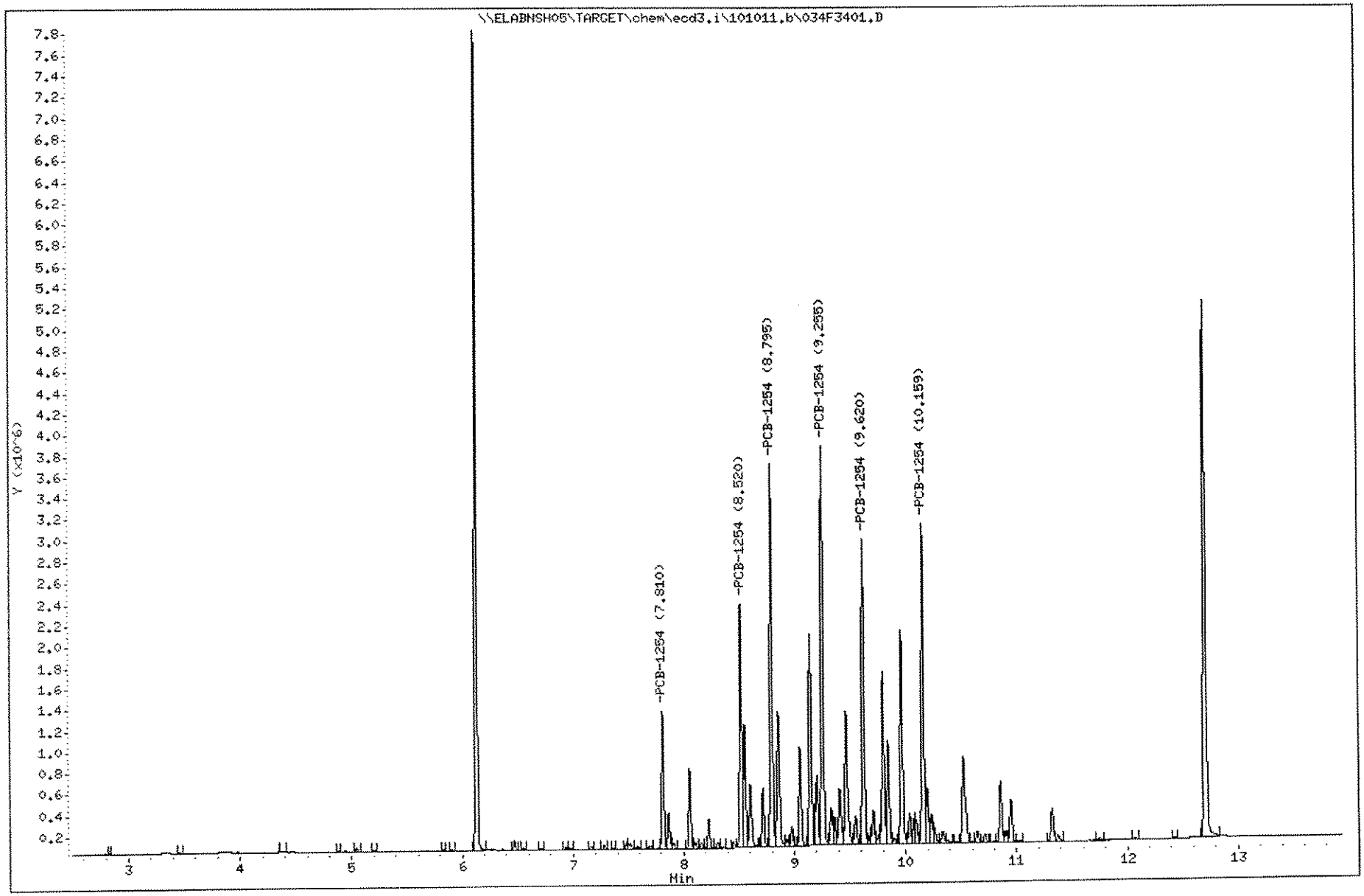
Data File: \\ELABNSH05\TARGET\chem\ecd3.i\101011.b\034F3401.D
Date : 10-OCT-2011 21:37
Client ID:
Sample Info: SEQ-CALC

Instrument: ecd3.i

Operator: EM

Column phase: ZB MR-1

Column diameter: 0.32



1411

1109191

SP

10/12/11

J.H. 10.12.11

Laboratory Name

SW-846 METHODS 8081A/8082

Data file : \\ELABNSH05\TARGET\chem\ecd3.i\101011.b\035F3501.D
Lab Smp Id: SEQ-ICV2
Inj Date : 10-OCT-2011 21:56
Operator : EM
Smp Info : SEQ-ICV2
Misc Info : ;;;;;;AR1254.sub
Comment :
Method : \\ELABNSH05\TARGET\chem\ecd3.i\101011.b\8081_82F.m
Meth Date : 11-Oct-2011 23:18 spatrona
Cal Date : 10-AUG-2011 19:35
Als bottle: 35
Dil Factor: 1.00000
Integrator: Falcon
Target Version: 4.04
Processing Host: TARGET14_VM

Inst ID: ecd3.i

Quant Type: ESTD
Cal File: 002F0101.D
Continuing Calibration Sample

Compound Sublist: AR1254.sub
Sample Matrix: None

RT	EXP RT	DLT RT	RESPONSE	AMOUNTS CAL-AMT (ng/mL)	AMOUNTS ON-COL (ng/mL)	TARGET RANGE	RATIO
34 PCB-1254					CAS #: 11097-69-1		
9.254	9.254	(0.000)	2400516	1000.00	1098	80.00- 120.00	100.00
7.811	7.811	(0.000)	775185	1000.00	1060	25.83- 38.75	32.29
8.519	8.519	(0.000)	1452629			48.41- 72.62	60.51
8.794	8.794	(0.000)	2267501	1000.00	1080	75.57- 113.35	94.46
9.621	9.621	(0.000)	1860656	1000.00	1092	62.01- 93.01	77.51
10.159	10.159	(0.000)	1997703	1000.00	1101	66.58- 99.86	83.22
		Average of Peak Amounts =			1086		

Data File: \\ELABNSH05\TARGET\chem\ecd3.i\101011.b\035F3501.D

Date : 10-OCT-2011 21:56

Client ID:

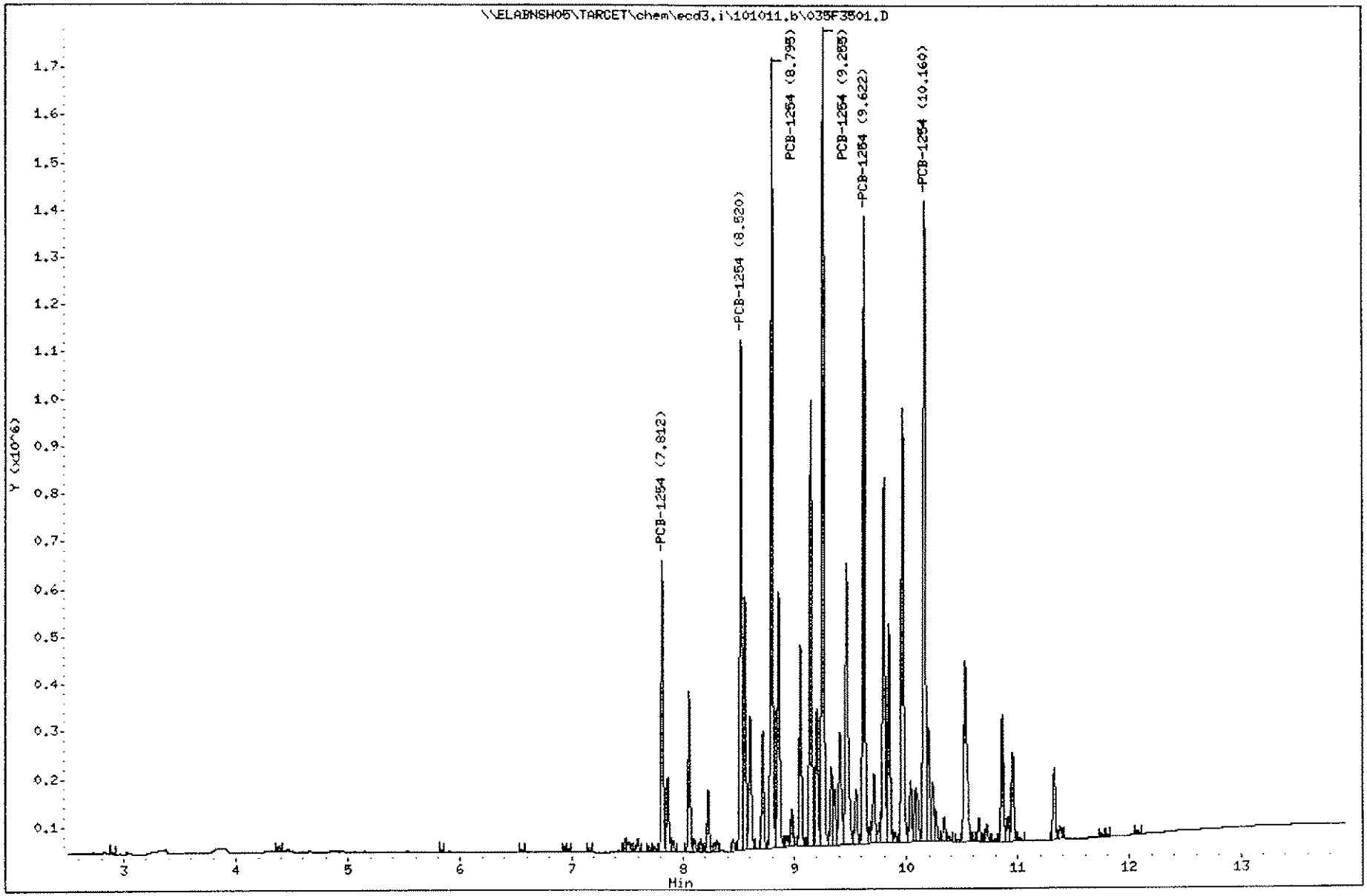
Instrument: ecd3.i

Sample Info: SEQ-ICV2

Operator: EM

Column phase: ZB MR-1

Column diameter: 0.32



1413

1109191

SP

Laboratory Name 10/12/11

SW-846 METHODS 8081A/8082

10.12.11

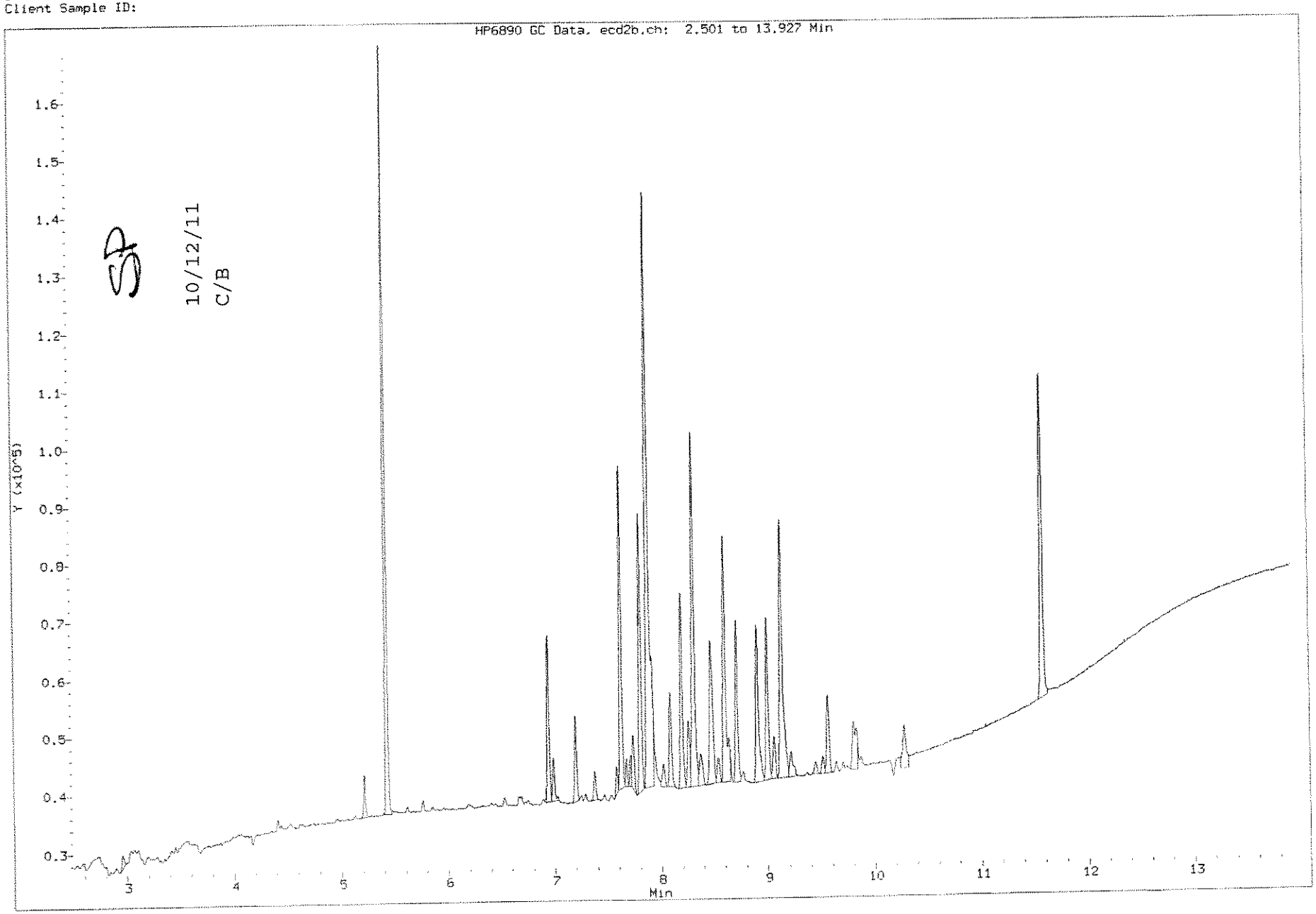
Data file : \\ELABNSH05\TARGET\chem\ecd3.i\101011.b\029R2901.D
Lab Smp Id: SEQ-CAL7
Inj Date : 10-OCT-2011 20:03
Operator : EM Inst ID: ecd3.i
Smp Info : SEQ-CAL7
Misc Info : ;;;;;;AR1254.sub
Comment :
Method : \\ELABNSH05\TARGET\chem\ecd3.i\101011.b\8081_82R.m
Meth Date : 11-Oct-2011 23:17 spatrona Quant Type: ESTD
Cal Date : 10-AUG-2011 19:35 Cal File: 002R0101.D
Als bottle: 29 Calibration Sample, Level: 6
Dil Factor: 1.00000
Integrator: Falcon Compound Sublist: AR1254.sub
Target Version: 4.04 Sample Matrix: None
Processing Host: TARGET14_VM

RT	EXP RT	DLT RT	RESPONSE	AMOUNTS CAL-AMT (ng/mL)	AMOUNTS ON-COL (ng/mL)	TARGET RANGE	RATIO
34 PCB-1254 [2C]					CAS #: 11097-69-1		
8.309	8.309	(0.000)	@ 104710	50.0000	59.14	80.00- 120.00	100.00(M)
7.195	7.195	(0.000)	20579			15.72- 23.58	19.65
7.624	7.624	(0.000)	85600	50.0000	60.47	65.40- 98.10	81.75
7.805	7.805	(0.000)	73182	50.0000	60.24	55.91- 83.87	69.89
8.474	8.474	(0.000)	55252	50.0000	60.60	42.21- 63.32	52.77
9.132	9.132	(0.000)	92137	50.0000 X	61.16	70.39- 105.59	87.99
		Average of Peak Amounts =			60.32		

QC Flag Legend

M - Compound response manually integrated.

Data File: \\ELABNSH05\TARGET\chem\ecd3.i\101011.b\029R2901.D
Injection Date: 10-OCT-2011 20:03
Instrument: ecd3.i
Client Sample ID:



1415

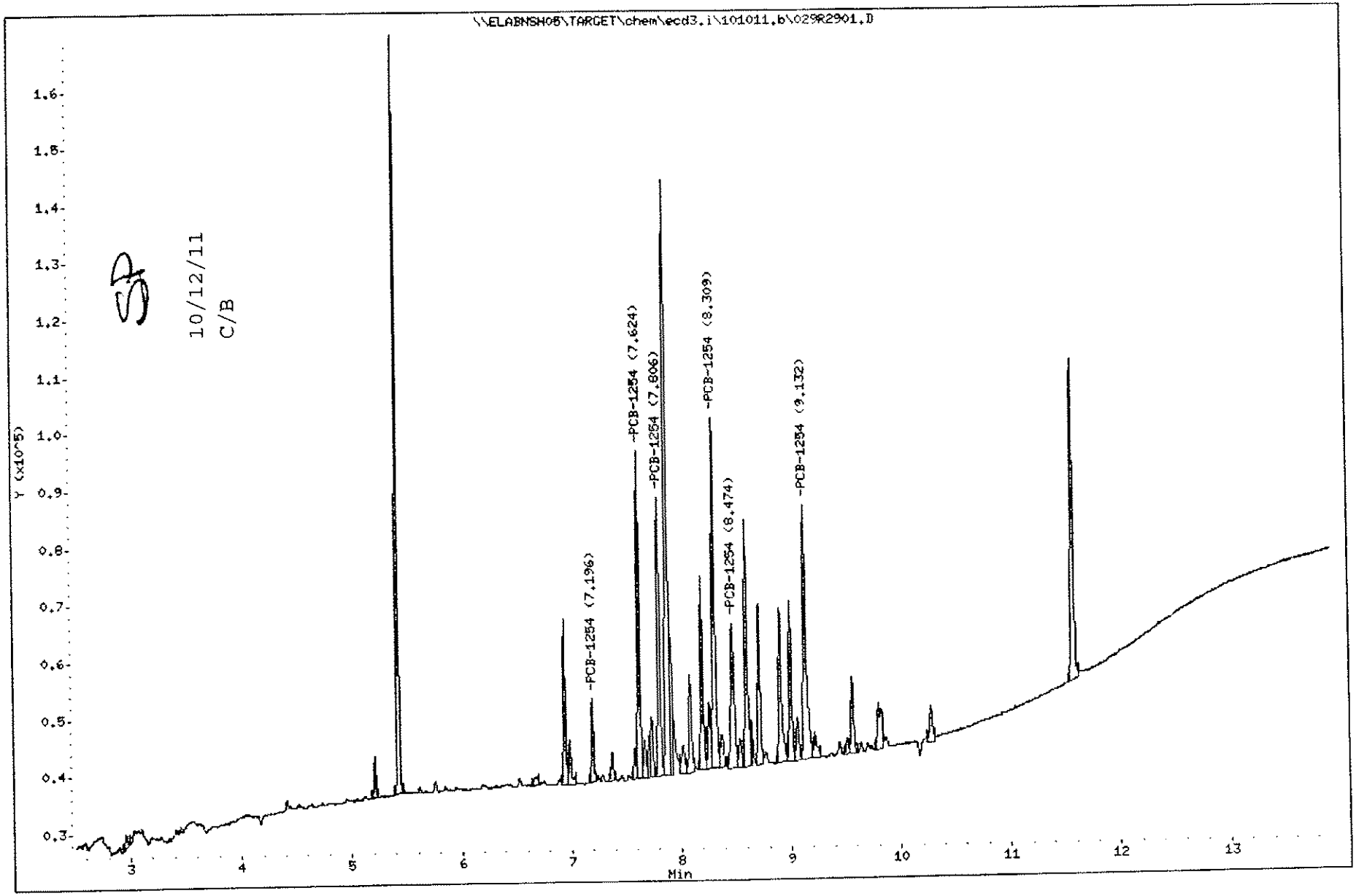
1109191

Data File: \\ELABNSH05\TARGET\chem\ecd3.i\101011.b\029R2901.D
Date : 10-OCT-2011 20:03
Client ID:
Sample Info: SEQ-CAL7

Column phase: ZB MR-2

Instrument: ecd3.i

Operator: EH
Column diameter: 0.32



1416

1109191

SP

10/12/11

J.H. 10.12.11

Laboratory Name

SW-846 METHODS 8081A/8082

Data file : \\ELABNSH05\TARGET\chem\ecd3.i\101011.b\030R3001.D
Lab Smp Id: SEQ-CAL8
Inj Date : 10-OCT-2011 20:22
Operator : EM Inst ID: ecd3.i
Smp Info : SEQ-CAL8
Misc Info : ;;;;;;AR1254.sub
Comment :
Method : \\ELABNSH05\TARGET\chem\ecd3.i\101011.b\8081_82R.m
Meth Date : 11-Oct-2011 23:17 spatrona Quant Type: ESTD
Cal Date : 10-AUG-2011 19:35 Cal File: 002R0101.D
Als bottle: 30 Calibration Sample, Level: 5
Dil Factor: 1.00000
Integrator: Falcon Compound Sublist: AR1254.sub
Target Version: 4.04 Sample Matrix: None
Processing Host: TARGET14_VM

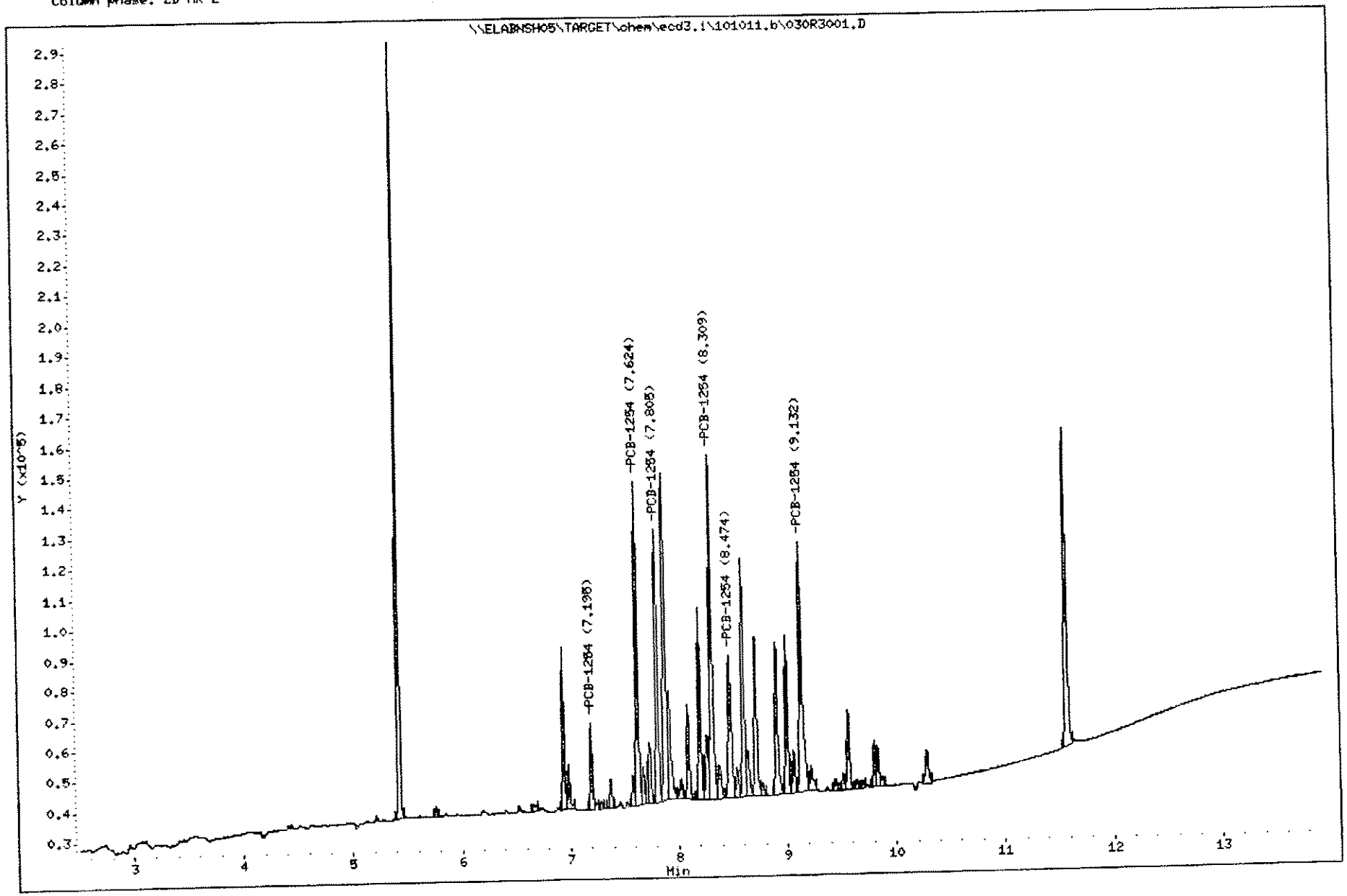
RT	EXP RT	DLT RT	RESPONSE	AMOUNTS CAL-AMT (ng/mL)	AMOUNTS ON-COL (ng/mL)	TARGET RANGE	RATIO
34 PCB-1254 [2C]					CAS #: 11097-69-1		
8.308	8.308	(0.000)	197561	100.000	111.6	80.00- 120.00	100.00
7.195	7.195	(0.000)	39904			16.16- 24.24	20.20
7.623	7.623	(0.000)	158889	100.000	112.2	64.34- 96.51	80.43
7.805	7.805	(0.000)	133800	100.000	110.1	54.18- 81.27	67.73
8.473	8.473	(0.000)	101059	100.000	110.8	40.92- 61.38	51.15
9.132	9.132	(0.000)	@ 168664	100.000	112.0	68.30- 102.45	85.37
		Average of Peak Amounts =			111.4		

Data File: \\ELABNSH05\TARGET\chem\ecd3.i\101011.b\030R3001.D
Date : 10-OCT-2011 20:22
Client ID:
Sample Info: SEQ-CAL8

Column phase: ZB MR-2

Instrument: ecd3.i

Operator: EM
Column diameter: 0.32



1418

1109191

SP

10/12/11

J.H. 10.12.11

Laboratory Name

SW-846 METHODS 8081A/8082

Data file : \\ELABNSH05\TARGET\chem\ecd3.i\101011.b\031R3101.D
Lab Smp Id: SEQ-CAL9
Inj Date : 10-OCT-2011 20:41
Operator : EM
Inst ID: ecd3.i
Smp Info : SEQ-CAL9
Misc Info : ;;;;;;AR1254.sub
Comment :
Method : \\ELABNSH05\TARGET\chem\ecd3.i\101011.b\8081_82R.m
Meth Date : 11-Oct-2011 23:17 spatrona
Quant Type: ESTD
Cal Date : 10-AUG-2011 19:35
Cal File: 002R0101.D
Als bottle: 31
Calibration Sample, Level: 4
Dil Factor: 1.00000
Integrator: Falcon
Compound Sublist: AR1254.sub
Target Version: 4.04
Sample Matrix: None
Processing Host: TARGET14_VM

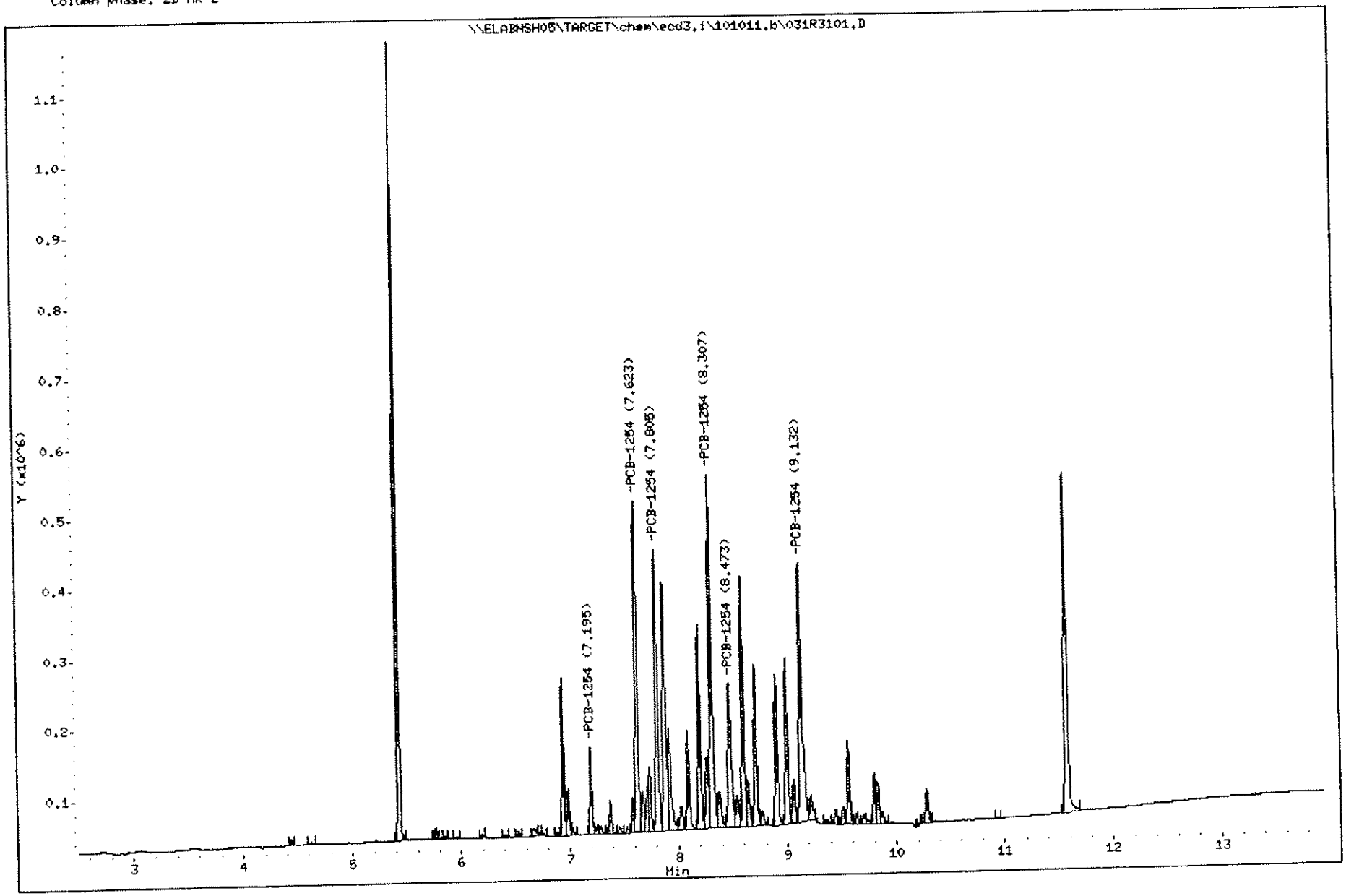
RT	EXP RT	DLT RT	RESPONSE	AMOUNTS CAL-AMT (ng/mL)	AMOUNTS ON-COL (ng/mL)	TARGET RANGE	RATIO
34 PCB-1254 [2C]					CAS #: 11097-69-1		
8.306	8.306	(0.000)	886357	500.000	500.6	80.00- 120.00	100.00
7.194	7.194	(0.000)	176509			15.93- 23.90	19.91
7.623	7.623	(0.000)	707812	500.000	500.0	63.89- 95.83	79.86
7.804	7.804	(0.000)	609909	500.000	502.1	55.05- 82.57	68.81
8.473	8.473	(0.000)	@ 455412	500.000	499.5	41.10- 61.66	51.38
9.131	9.131	(0.000)	747398	500.000	496.2	67.46- 101.19	84.32
		Average of Peak Amounts =			499.7		

Data File: \\ELABNSH05\TARGET\chem\ecd3.i\101011.b\031R3101.D
Date : 10-OCT-2011 20:41
Client ID:
Sample Info: SEQ-CAL9

Column phase: ZB MR-2

Instrument: ecd3.i

Operator: EH
Column diameter: 0.32



1420

1109191

SP

10/12/11

J.H. 10.12.11

Laboratory Name

SW-846 METHODS 8081A/8082

Data file : \\ELABNSH05\TARGET\chem\ecd3.i\101011.b\032R3201.D
Lab Smp Id: SEQ-CALA
Inj Date : 10-OCT-2011 21:00
Operator : EM
Inst ID: ecd3.i
Smp Info : SEQ-CALA
Misc Info : ;;;;;;AR1254.sub
Comment :
Method : \\ELABNSH05\TARGET\chem\ecd3.i\101011.b\8081_82R.m
Meth Date : 11-Oct-2011 23:18 spatrona
Quant Type: ESTD
Cal Date : 10-AUG-2011 19:35
Cal File: 002R0101.D
Als bottle: 32
Calibration Sample, Level: 3
Dil Factor: 1.00000
Integrator: Falcon
Compound Sublist: AR1254.sub
Target Version: 4.04
Sample Matrix: None
Processing Host: TARGET14_VM

RT	EXP RT	DLT RT	RESPONSE	AMOUNTS CAL-AMT (ng/mL)	AMOUNTS ON-COL (ng/mL)	TARGET RANGE	RATIO
34 PCB-1254 [2C]					CAS #: 11097-69-1		
8.308	8.308	(0.000)	1270406	750.000	717.6	80.00- 120.00	100.00
7.194	7.194	(0.000)	252496			15.90- 23.85	19.88
7.621	7.621	(0.000)	1001089	750.000	707.2	63.04- 94.56	78.80
7.804	7.804	(0.000)	@ 865401	750.000	712.4	54.50- 81.74	68.12
8.473	8.473	(0.000)	647852	750.000	710.5	40.80- 61.19	51.00
9.131	9.131	(0.000)	1052645	750.000	698.8	66.29- 99.43	82.86
		Average of Peak Amounts =			709.3		

Data File: \\ELABNSH05\TARGET\chem\ecd3.i\101011.b\032R3201.D

Date : 10-OCT-2011 21:00

Client ID:

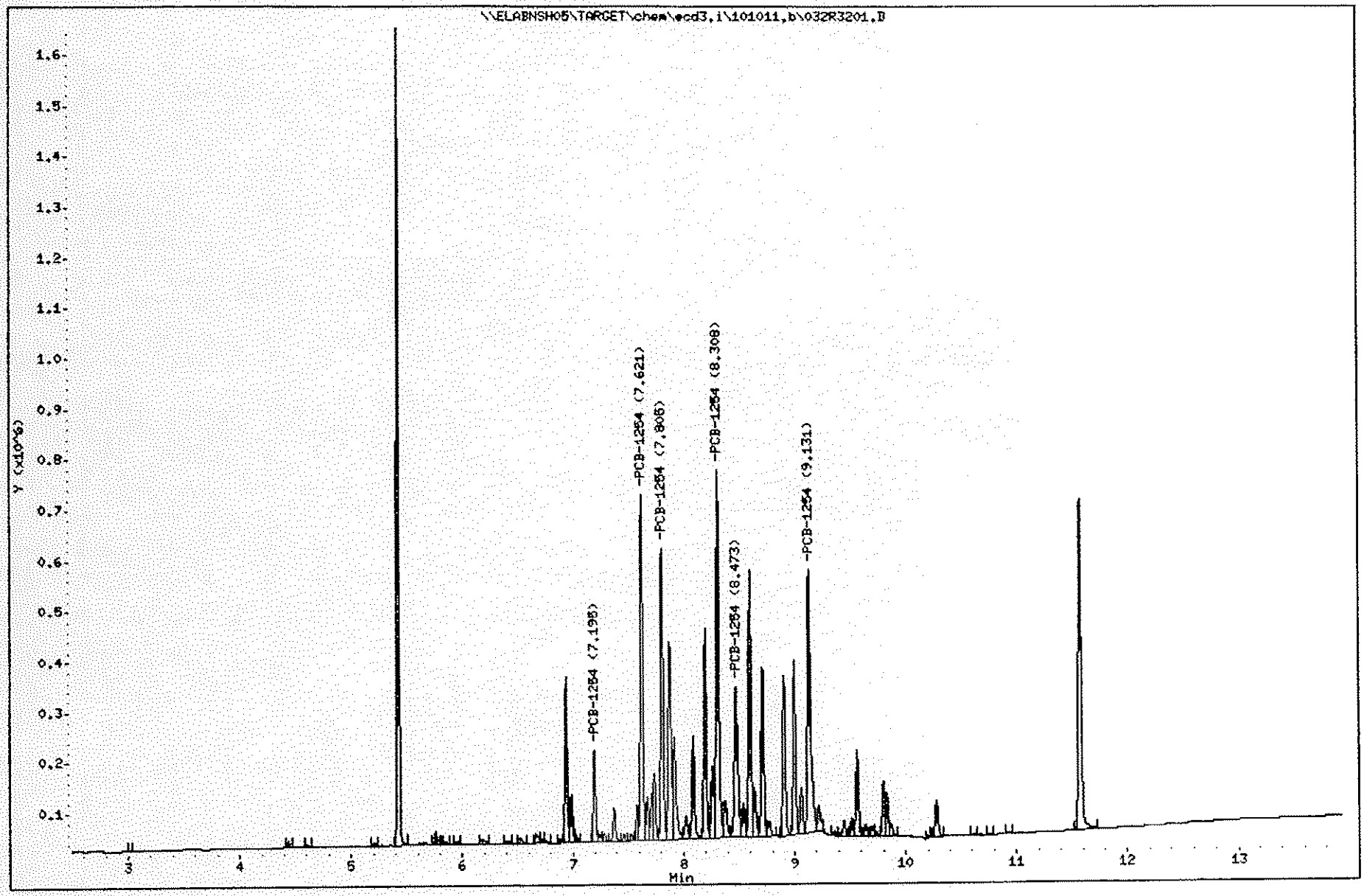
Sample Info: SEQ-CALA

Instrument: ecd3.i

Operator: EM

Column phase: ZB MR-2

Column diameter: 0.32



1422

1109191

SP

10/12/11

Laboratory Name

SW-846 METHODS 8081A/8082

10.12.11

Data file : \\ELABNSH05\TARGET\chem\ecd3.i\101011.b\033R3301.D
Lab Smp Id: SEQ-CALB
Inj Date : 10-OCT-2011 21:19
Operator : EM
Smp Info : SEQ-CALB
Misc Info : ;;;;;;AR1254.sub
Comment :
Method : \\ELABNSH05\TARGET\chem\ecd3.i\101011.b\8081_82R.m
Meth Date : 11-Oct-2011 23:18 spatrona
Cal Date : 10-AUG-2011 19:35
Als bottle: 33
Dil Factor: 1.00000
Integrator: Falcon
Target Version: 4.04
Processing Host: TARGET14_VM

Inst ID: ecd3.i

Quant Type: ESTD
Cal File: 002R0101.D
Calibration Sample, Level: 2

Compound Sublist: AR1254.sub
Sample Matrix: None

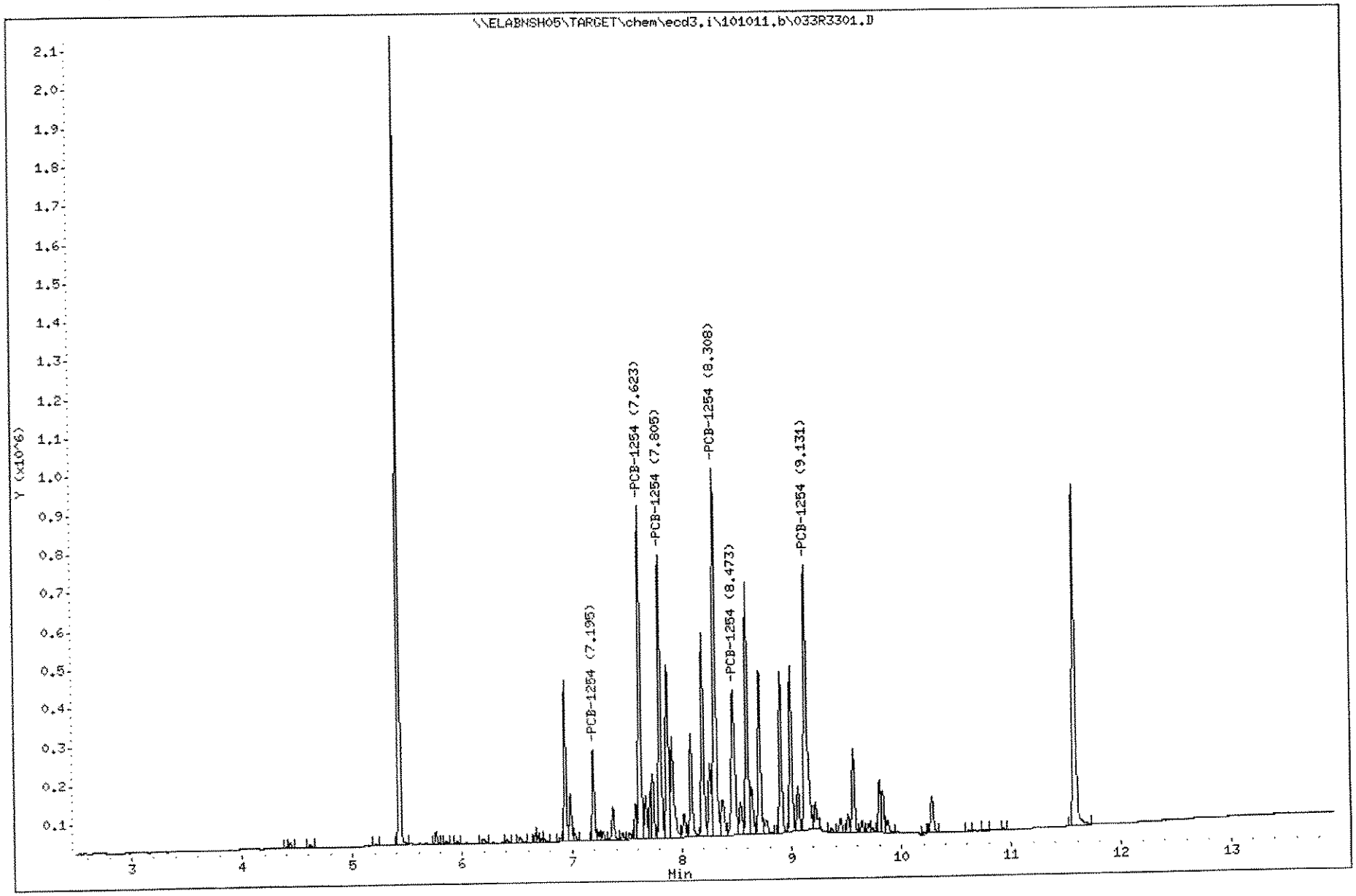
RT	EXP RT	DLT RT	RESPONSE	AMOUNTS CAL-AMT (ng/mL)	AMOUNTS ON-COL (ng/mL)	TARGET RANGE	RATIO
34 PCB-1254 [2C]					CAS #: 11097-69-1		
8.307	8.307	(0.000)	1620706	1000.00	915.4	80.00- 120.00	100.00
7.194	7.194	(0.000)	325545			16.07- 24.10	20.09
7.622	7.622	(0.000)	@1290341	1000.00	911.5	63.69- 95.54	79.62
7.804	7.804	(0.000)	1115093	1000.00	918.0	55.04- 82.56	68.80
8.472	8.472	(0.000)	835265	1000.00	916.1	41.23- 61.84	51.54
9.131	9.131	(0.000)	1360150	1000.00	902.9	67.14- 100.71	83.92
		Average of Peak Amounts =			912.8		

Data File: \\ELABNSH05\TARGET\chem\ecd3.i\101011.b\033R3301.D
Date : 10-OCT-2011 21:19
Client ID:
Sample Info: SEQ-CALB

Column phase: ZB MR-2

Instrument: ecd3.i

Operator: EM
Column diameter: 0.32



SP
10/12/11

Laboratory Name

SW-846 METHODS 8081A/8082

10.12.11

Data file : \\ELABNSH05\TARGET\chem\ecd3.i\101011.b\034R3401.D
Lab Smp Id: SEQ-CALC
Inj Date : 10-OCT-2011 21:37
Operator : EM
Inst ID: ecd3.i
Smp Info : SEQ-CALC
Misc Info : ;;;;;;AR1254.sub
Comment :
Method : \\ELABNSH05\TARGET\chem\ecd3.i\101011.b\8081_82R.m
Meth Date : 11-Oct-2011 23:18 spatrona
Quant Type: ESTD
Cal Date : 10-AUG-2011 19:35
Cal File: 002R0101.D
Als bottle: 34
Calibration Sample, Level: 1
Dil Factor: 1.00000
Integrator: Falcon
Compound Sublist: AR1254.sub
Target Version: 4.04
Sample Matrix: None
Processing Host: TARGET14_VM

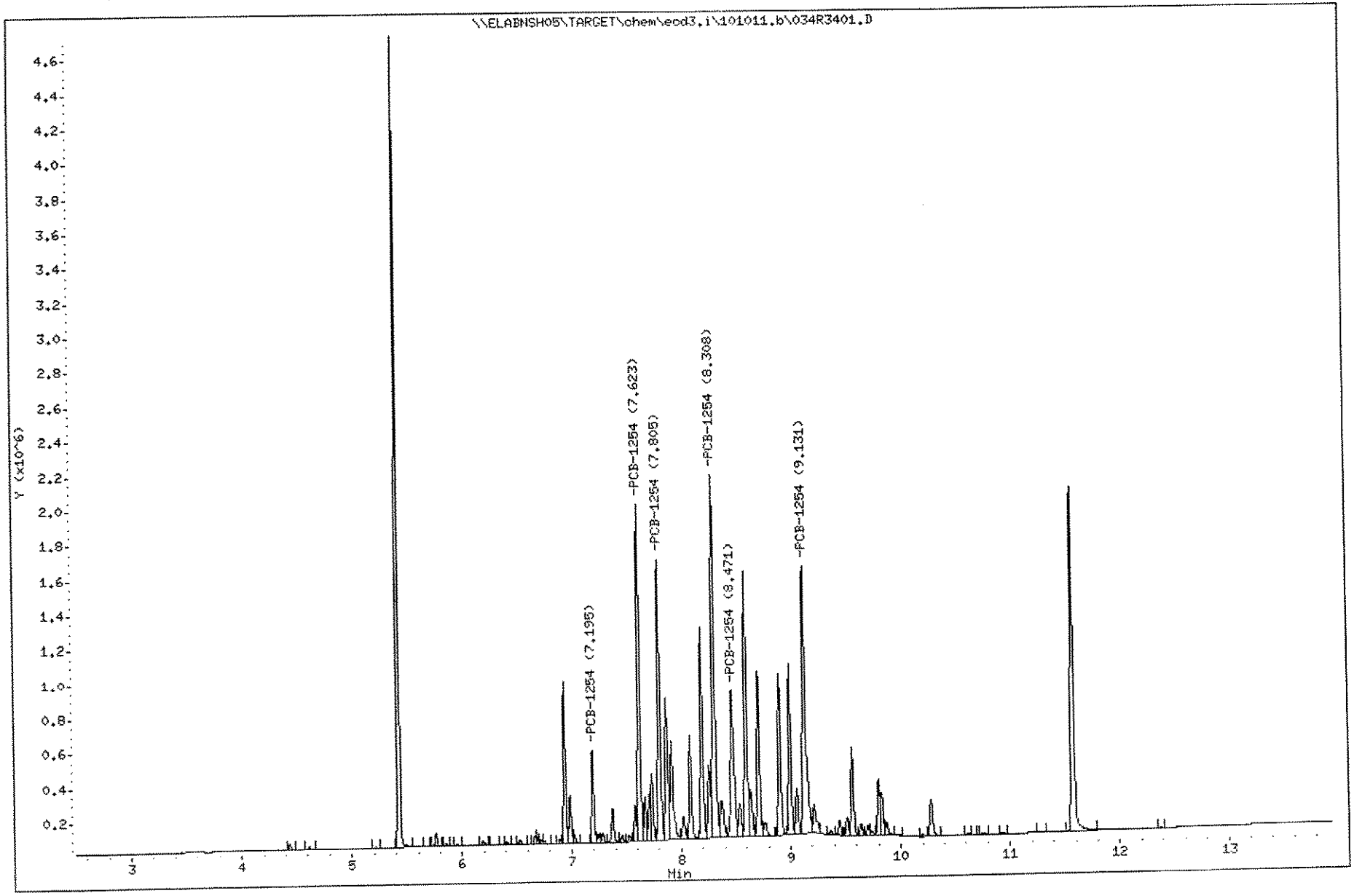
RT	EXP RT	DLT RT	RESPONSE	AMOUNTS CAL-AMT (ng/mL)	ON-COL (ng/mL)	TARGET RANGE	RATIO
34 PCB-1254 [2C]					CAS #: 11097-69-1		
8.307	8.307	(0.000)	@ 3664217	2500.00	2070	80.00- 120.00	100.00
7.194	7.194	(0.000)	745821			16.28- 24.43	20.35
7.622	7.622	(0.000)	2880559	2500.00	2035	62.89- 94.34	78.61
7.804	7.804	(0.000)	2494990	2500.00	2054	54.47- 81.71	68.09
8.471	8.471	(0.000)	1862636	2500.00	2043	40.67- 61.00	50.83
9.131	9.131	(0.000)	3126094	2500.00	2075	68.25- 102.38	85.31
		Average of Peak Amounts =			2055		

Data File: \\ELABNSH05\TARGET\chem\ecd3.i\101011.b\034R3401.D
Date : 10-OCT-2011 21:37
Client ID:
Sample Info: SEQ-CALC

Column phase: ZB MR-2

Instrument: ecd3.i

Operator: EM
Column diameter: 0.32



1426

1109191

SP

Laboratory Name

10/12/11

ICV ~~CONTINUING CALIBRATION~~ COMPOUNDS

J.H. 10.12.11

Instrument ID: ecd3.i
Lab File ID: 035R3501.D
Analysis Type:
Lab Sample ID: SEQ-ICV2
Injection Date: 10-OCT-2011 21:56
Init. Cal. Date(s): 01-JUL-2010 10-OCT-2011
Init. Cal. Times: 08:58 21:37
Quant Type: ESTD
Method: \\ELABNSH05\TARGET\chem\ecd3.i\101011.b\8081_82R.m

COMPOUND	RRF	RF100	MIN RRF	%D	MAX %D	
34 PCB-1254(1)	1770	1821	0.010	2.8	20.0	
(2)	++++	++++	0.010	++++	20.0	<-
(3)	1416	1433	0.010	1.2	20.0	
(4)	1215	1243	0.010	2.3	20.0	
(5)	912	938	0.010	2.9	20.0	
(6)	1506	1586	0.010	5.3	20.0	

SP

Laboratory Name 10/12/11

SW-846 METHODS 8081A/8082

D.H. 10.12.11

Data file : \\ELABNSH05\TARGET\chem\ecd3.i\101011.b\035R3501.D
Lab Smp Id: SEQ-ICV2
Inj Date : 10-OCT-2011 21:56
Operator : EM
Smp Info : SEQ-ICV2
Misc Info : ;;;;;;AR1254.sub
Comment :
Method : \\ELABNSH05\TARGET\chem\ecd3.i\101011.b\8081_82R.m
Meth Date : 11-Oct-2011 23:18 spatrona
Cal Date : 10-AUG-2011 19:35
Als bottle: 35
Dil Factor: 1.00000
Integrator: Falcon
Target Version: 4.04
Processing Host: TARGET14_VM

Inst ID: ecd3.i

Quant Type: ESTD
Cal File: 002R0101.D
Continuing Calibration Sample

Compound Sublist: AR1254.sub
Sample Matrix: None

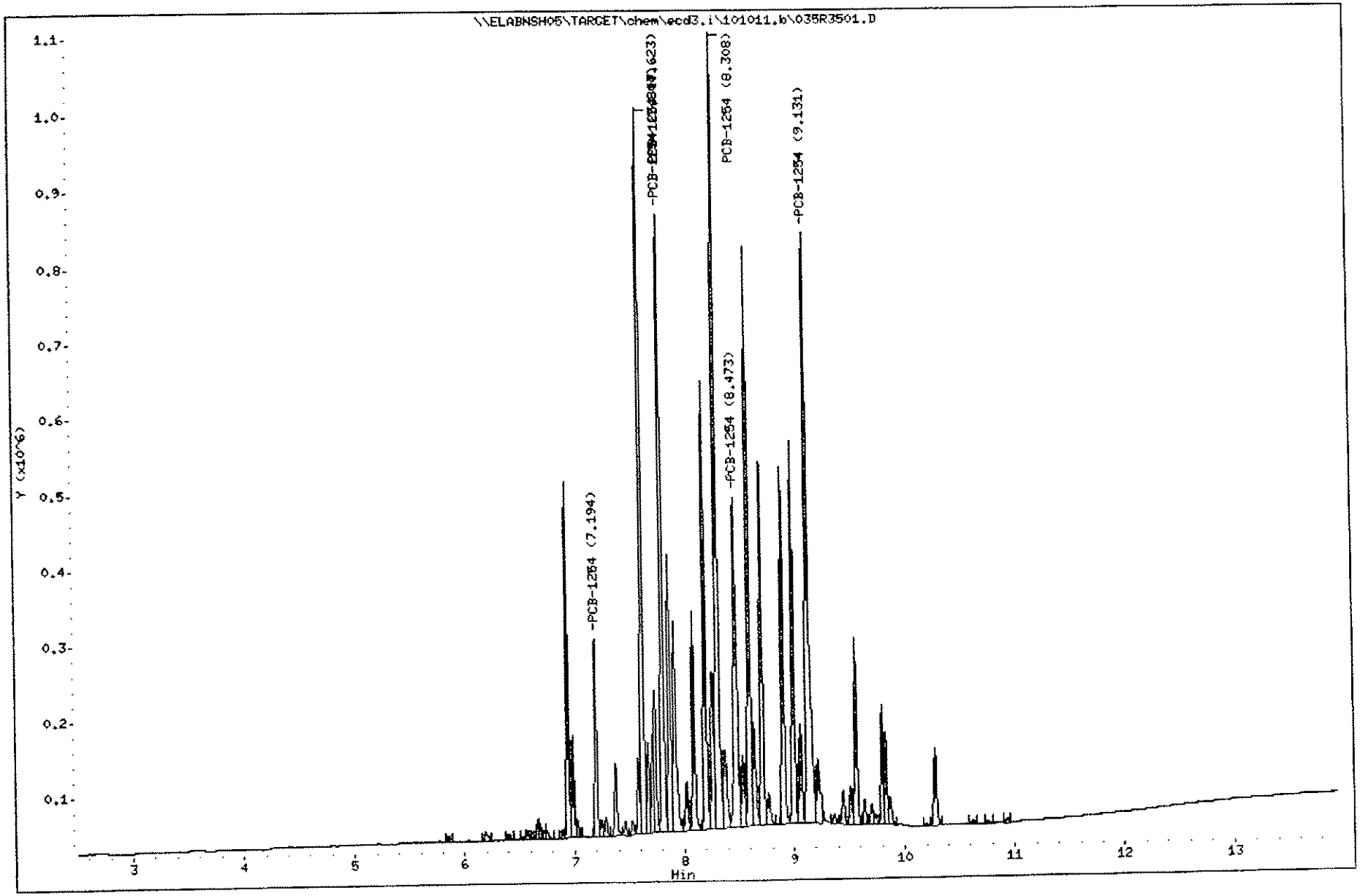
RT	EXP RT	DLT RT	RESPONSE	AMOUNTS CAL-AMT (ng/mL)	ON-COL (ng/mL)	TARGET RANGE	RATIO
34 PCB-1254 (2C)					CAS #: 11097-69-1		
8.307	8.307	(0.000)	1820825	1000.00	1028	80.00- 120.00	100.00
7.194	7.194	(0.000)	363716			15.98- 23.97	19.98
7.622	7.622	(0.000)	1432582	1000.00	1012	62.94- 94.41	78.68
7.804	7.804	(0.000)	1242781	1000.00	1023	54.60- 81.90	68.25
8.472	8.472	(0.000)	938068	1000.00	1029	41.22- 61.82	51.52
9.130	9.130	(0.000)	1585708	1000.00	1053	69.67- 104.50	87.09
		Average of Peak Amounts =			1029		

Data File: \\ELABNSH05\TARGET\chem\ecd3.i\101011.b\035R3501.D
Date : 10-OCT-2011 21:56
Client ID:
Sample Info: SEQ-ICV2

Column phase: ZB MR-2

Instrument: ecd3.i

Operator: EH
Column diameter: 0.32



Sequence: C:\HPCHEM\ECD3\SEQUENCE\092811.S \ECD.3 \HP.2/F \8081_82

PG. 389

Sequence Table (Front/Injector): /BACK

Quantification Part:

Line	Location	SampleName	SampleAmount	ISTDAmt	Multiplier	Dilution
1	Vial 1	Pest Primer				
2	Vial 2	SEQ-PEM1				
3	Vial 3	SEQ-CAL7				
4	Vial 4	SEQ-CAL6				
5	Vial 5	SEQ-CAL5				
6	Vial 6	SEQ-CAL4				
7	Vial 7	SEQ-CAL3				
8	Vial 8	SEQ-CAL2				
9	Vial 9	SEQ-CAL1				
10	Vial 10	SEQ-ICV1				
11	Vial 11	SEQ-CCV1				
12	Vial 12	SEQ-CCV2				
13	Vial 13	SEQ-CCV3				
14	Vial 14	SEQ-CCV4				
15	Vial 15	1I09010-BLK1;Cu				
16	Vial 16	1I09010-BS1;Cu				
17	Vial 17	1I09010-BS2;Cu				
18	Vial 18	1I12004-BLK1;Cu				
19	Vial 19	1I12004-BS1;Cu				
20	Vial 20	1I12004-BS2;Cu				
21	Vial 21	1I19023-BLK1				
22	Vial 22	1I19023-BS1				
23	Vial 23	1I19023-BSD1				
24	Vial 24	1I19023-BS2				
25	Vial 25	1I19023-BSD2				
26	Vial 26	1I23012-BLK1				
27	Vial 27	1I23012-BS1				
28	Vial 28	1I23014-BLK1				
29	Vial 29	1I23014-BS1				
30	Vial 30	1I23014-BSD1				
31	Vial 31	1I12005-BLK1;Cu				
32	Vial 32	1I12005-BS1;Cu				
33	Vial 33	1I12005-BS2;Cu				
34	Vial 34	1I2006-BLK1;Cu				
35	Vial 35	1I2006-BS1;Cu				
36	Vial 36	1I2006-BS2;Cu				
37	Vial 37	SEQ-CCV5				
38	Vial 38	SEQ-CCV6				
39	Vial 39	SEQ-CCV7				
40	Vial 40	SEQ-CCV8				
41	Vial 41	SEQ-PEM2				
42	Vial 42	1I21003-BLK1				
43	Vial 43	1I21003-BS1				
44	Vial 44	1I21003-BS2				
45	Vial 45	1I21003-BS3				
46	Vial 46	1I22024-BLK1;Cu				
47	Vial 47	1I22024-BS1;Cu				
48	Vial 48	1I22024-BS2;Cu				
49	Vial 49	1I22024-MRL1				
50	Vial 50	1I22024-MRL2				
51	Vial 51	1I22024-MRL3				
52	Vial 52	1I22024-MRL4				
53	Vial 53	1I19001-BLK1;Cu				
54	Vial 54	1I19001-BS1;Cu				
55	Vial 55	1I19001-BSD1;Cu				
56	Vial 56	1I19001-BS2;Cu				
57	Vial 57	1I19001-BSD2;Cu				
58	Vial 58	1109074-12 1x				
59	Vial 59	1109097-12				

ID# 11I0420
ID# 11H0802 (AB CAL7)
11H0801 (AB CAL6)
11H0800 (AB CAL5)
11H0799 (AB CAL4)
11H0798 (AB CAL3)
11H0618 (AB CAL2)
11H0796 (AB CAL1)
11H0363 (AB ICV)
11I0419 (AB CCV)
11I0754 (Chlor CCV)
11I0795 (Tox CCV)
11I0557 (1660 CCV)

(AB)
(Chlor)
(Tox)
(1660)

ev 260 9.30.11

Instrument 1 9/29/2011 5:26:58 PM EM

Sequence: C:\HPCHEM\ECD3\SEQUENCE\092811.S \ECD.S \HP.E/F \0001_0L

PG. 39 0

EM 260
9.30.11

Line	Location	SampleName	SampleAmount	ISTDAmt	Multiplier	Dilution
60	Vial 60	1109131-03;Cu 1x				
61	Vial 61	1I15010-BLK1;Cu				
62	Vial 62	1I15010-BS1;Cu				
63	Vial 63	1I15010-BS2;Cu				
64	Vial 64	1I15010-MRL1 (AB soil)				
65	Vial 65	SEQ-CCV9 (AB)				
66	Vial 66	SEQ-CCVA (Chlor)				
67	Vial 67	SEQ-CCVB (Tox)				
68	Vial 68	SEQ-CCVC (1660)				
69	Vial 69	1109097-14;Cu 1x				
70	Vial 70	1109074-01;Cu 1x				
71	Vial 71	1I15010-MS1;Cu 1x				
72	Vial 72	1I15010-MSD1;Cu				
73	Vial 73	1I15010-MS2;Cu				
74	Vial 74	1I15010-MSD2;Cu				
75	Vial 75	1109074-02;Cu 1x				
76	Vial 76	1109074-03 1x				
77	Vial 77	1109074-04;Cu 1x				
78	Vial 78	1109074-05;Cu				
79	Vial 79	1109074-06;Cu				
80	Vial 80	1109074-07				
81	Vial 81	1109074-08				
82	Vial 82	SEQ-CCVD (AB)				
83	Vial 83	SEQ-CCVE (Chlor)				
84	Vial 84	SEQ-CCVF (Tox)				
85	Vial 85	SEQ-CCVG (1660)				
86	Vial 97	11I0836 Ab@1ppb				
87	Vial 86	1109074-09;Cu 1x				
88	Vial 98	hex test vial				
89	Vial 99	hex test jug				
90	Vial 87	1109074-10;Cu 1x				
91	Vial 88	1109074-11;Cu 1x				
92	Vial 89	PCB-1242 ID# 11H0191				
93	Vial 100	11I0100 AB@1ppb				
94	Vial 90	PCB-1254 ID# 11G0118				
95	Vial 1	11I0099 AB@1ppb				
96	Vial 91	PCB-1262 ID# 10K0222				
97	Vial 92	PCB-1268 ID# 10K0735				
98	Vial 93	SEQ-CCVH (AB)				
99	Vial 94	SEQ-CCVI (Chlor)				
100	Vial 95	SEQ-CCVJ (Tox)				
101	Vial 96	SEQ-CCVK (1660)				
102	Vial 2	SEQ-PEM3				

~~Sequence Table (Back Injector):~~

~~No entries - empty table!~~

J.H. 10.2.11

Empirical Laboratories, LLC

SW-846 METHODS 8081A/8082

Data file : \\BC\TARGET\chem\ecd3.i\092811.b\011F1101.D
Lab Smp Id: SEQ-CCV1
Inj Date : 28-SEP-2011 12:02
Operator : EM Inst ID: ecd3.i
Smp Info : SEQ-CCV1
Misc Info : ;;;;;;INDABD.sub
Comment :
Method : \\BC\TARGET\chem\ecd3.i\092811.b\8081_82F.m
Meth Date : 29-Sep-2011 12:29 jeh Quant Type: ESTD
Cal Date : 10-AUG-2011 19:35 Cal File: 002F0101.D
Als bottle: 11 Continuing Calibration Sample
Dil Factor: 1.00000
Integrator: Falcon Compound Sublist: INDABD.sub
Target Version: 4.04
Processing Host: NSH-LAPTOP1

Compounds	RT	EXP RT	DLT RT	RESPONSE	AMOUNTS CAL-AMT (ng/mL)	AMOUNTS ON-COL (ng/mL)
$ 38 TCMX	5.777	5.778	-0.001	3661867	100.000	102.6
3 Alpha-BHC	6.245	6.247	-0.002	5847712 X	100.000	110.6
23 Gamma-BHC	6.594	6.595	-0.001	5169835	100.000	106.0
5 Beta-BHC	6.792	6.793	-0.001	2131400	100.000	99.63
15 Delta-BHC	7.070	7.072	-0.002	4822663	100.000	106.2
25 Heptachlor	7.239	7.240	-0.001	4580781	100.000	101.5
2 Aldrin	7.629	7.628	0.001	5002377	100.000	104.7
26 Heptachlor Epoxide	8.117	8.119	-0.002	4507567	100.000	99.22
24 Gamma-Chlordane	8.420	8.422	-0.002	4718268	100.000	76.09
4 Alpha-Chlordane	8.514	8.516	-0.002	4442604	100.000	94.09
17 Endosulfan I	8.580	8.583	-0.003	4180232	100.000	99.36
13 4,4'-DDE	8.709	8.708	0.001	4436247	100.000	101.6
16 Dieldrin	8.914	8.915	-0.001	4571169	100.000	103.6
20 Endrin	9.200	9.200	0.000	3471097	100.000	103.2
12 4,4'-DDD	9.349	9.348	0.001	3680535	100.000	102.9
18 Endosulfan II	9.470	9.472	-0.002	3737229	100.000	98.86
21 Endrin Aldehyde	9.632	9.633	-0.001	2979557	100.000	100.9
14 4,4'-DDT	9.744	9.743	0.001	3444341	100.000	103.2
19 Endosulfan Sulfate	9.927	9.928	-0.001	3321759	100.000	102.3
27 Methoxychlor	10.340	10.343	-0.003	1786237	100.000	96.09
22 Endrin Ketone	10.550	10.552	-0.002	4154951	100.000	99.82
$ 39 DCB	12.225	12.225	0.000	3355257 *	100.000	92.36

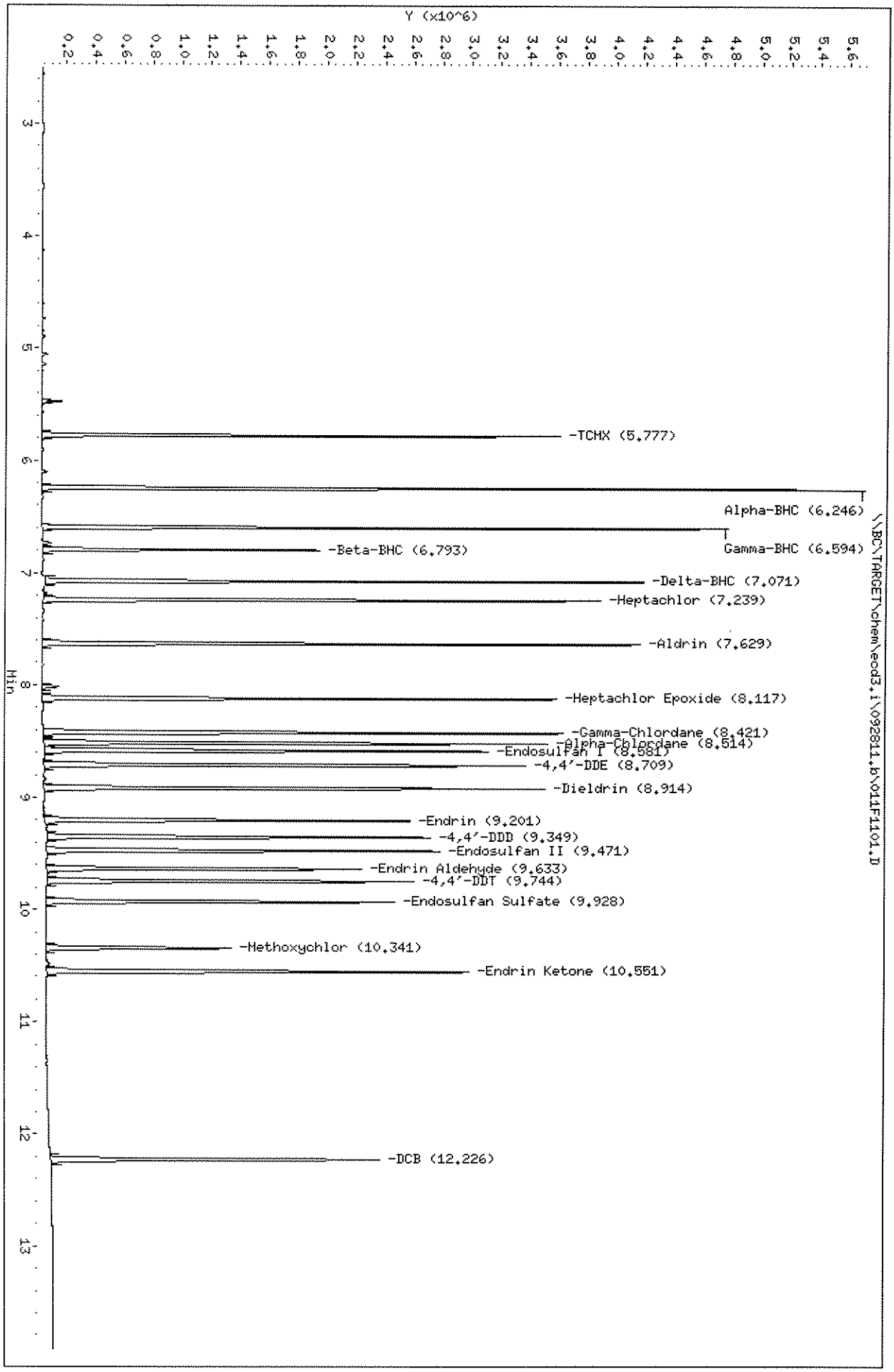
10/4/11

Data File: \\BC\TARGET\chem\ecd3.i\092811.b\011F1101.D
Date : 28-SEP-2011 12:02
Client ID:
Sample Info: SEQ-CCV1

Column phase: ZB MR-1

Instrument: ecd3.i

Operator: EM
Column diameter: 0.32



Page 2

J.H. 10.2.11

Empirical Laboratories, LLC

SW-846 METHODS 8081A/8082

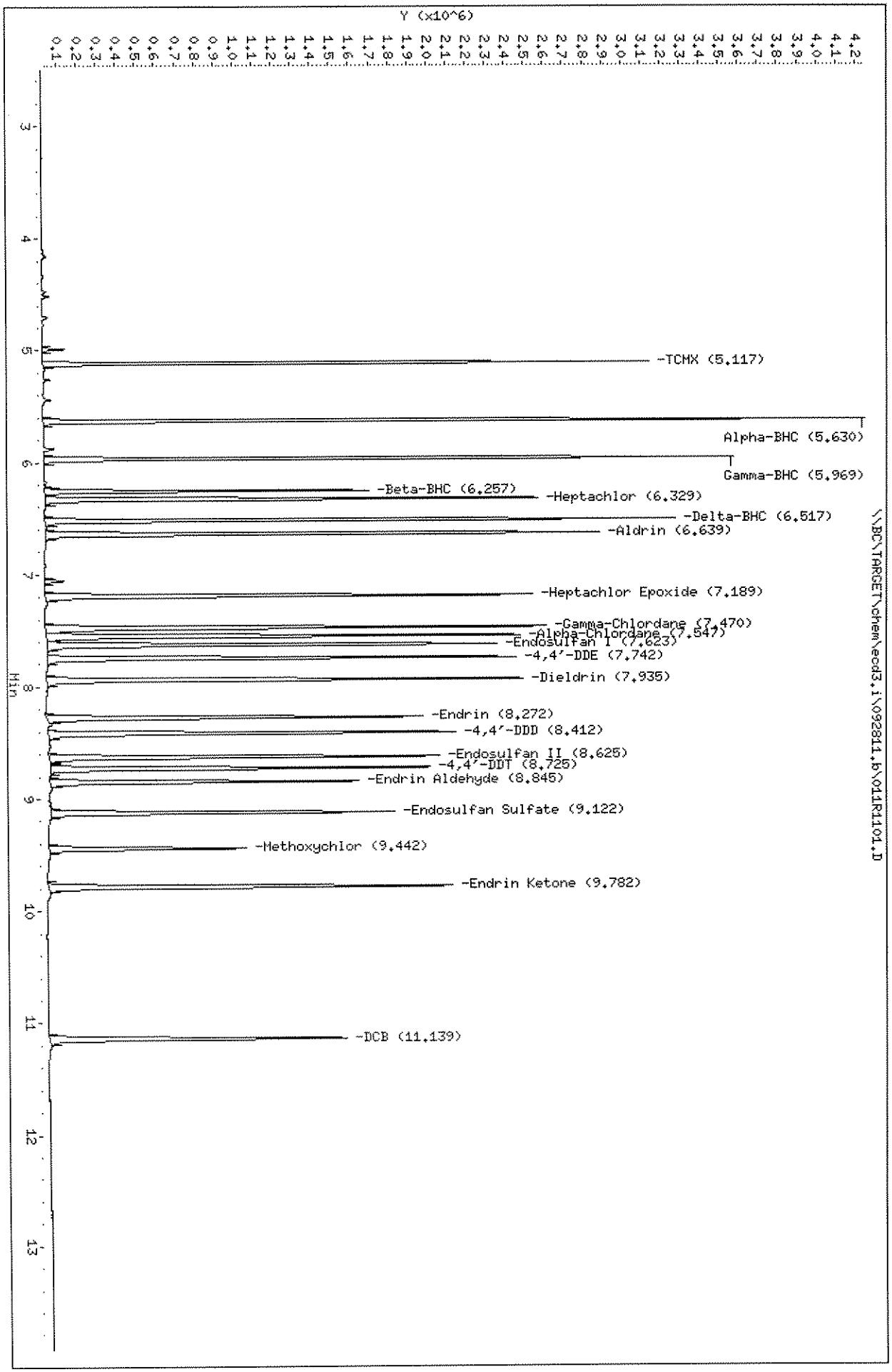
Data file : \\BC\TARGET\chem\ecd3.i\092811.b\011R1101.D
Lab Smp Id: SEQ-CCV1
Inj Date : 28-SEP-2011 12:02
Operator : EM Inst ID: ecd3.i
Smp Info : SEQ-CCV1
Misc Info : ;;;;;;INDABD.sub
Comment :
Method : \\BC\TARGET\chem\ecd3.i\092811.b\8081_82R.m
Meth Date : 29-Sep-2011 14:56 jeh Quant Type: ESTD
Cal Date : 10-AUG-2011 19:35 Cal File: 002R0101.D
Als bottle: 11 Continuing Calibration Sample
Dil Factor: 1.00000
Integrator: Falcon Compound Sublist: INDABD.sub
Target Version: 4.04
Processing Host: NSH-LAPTOP1

Compounds	RT	EXP RT	DLT RT	RESPONSE		AMOUNTS CAL-AMT (ng/mL)	AMOUNTS ON-COL (ng/mL)
$ 38 TCMX [2C]	5.116	5.116	0.000	3391388		100.000	96.48
3 Alpha-BHC [2C]	5.630	5.629	0.001	4942167	X	100.000	100.4
23 Gamma-BHC [2C]	5.968	5.968	0.000	4392523		100.000	98.56
5 Beta-BHC [2C]	6.256	6.258	-0.002	2053738		100.000	90.67
25 Heptachlor [2C]	6.328	6.329	-0.001	3695382		100.000	97.71
15 Delta-BHC [2C]	6.516	6.518	-0.002	4160475		100.000	100.1
2 Aldrin [2C]	6.638	6.638	0.000	4272577		100.000	95.63
26 Heptachlor Epoxide [2C]	7.188	7.189	-0.001	3912977		100.000	93.44
24 Gamma-Chlordane [2C]	7.470	7.471	-0.001	4157838		100.000	101.7
4 Alpha-Chlordane [2C]	7.546	7.546	0.000	3947200		100.000	86.71
17 Endosulfan I [2C]	7.623	7.624	-0.001	3655470		100.000	93.69
13 4,4'-DDE [2C]	7.741	7.743	-0.002	3775337		100.000	95.28
16 Dieldrin [2C]	7.935	7.934	0.001	4024819		100.000	96.10
20 Endrin [2C]	8.271	8.273	-0.002	3198971		100.000	96.20
12 4,4'-DDD [2C]	8.411	8.413	-0.002	3327069		100.000	96.88
18 Endosulfan II [2C]	8.625	8.625	0.000	3259568		100.000	93.62
14 4,4'-DDT [2C]	8.725	8.726	-0.001	3148891		100.000	98.72
21 Endrin Aldehyde [2C]	8.845	8.846	-0.001	2613871		100.000	95.50
19 Endosulfan Sulfate [2C]	9.121	9.123	-0.002	2855616		100.000	97.78
27 Methoxychlor [2C]	9.441	9.441	0.000	1623100		100.000	91.80
22 Endrin Ketone [2C]	9.781	9.783	-0.002	3609354		100.000	101.6
$ 39 DCB [2C]	11.138	11.138	0.000	2632513	*	100.000	89.94

10/4/11

Data File: \\BC\TARGET\chem\ecd3.i\092811.b\011R1101.D
Date : 28-SEP-2011 12:02
Client ID:
Sample Info: SEQ-CCV1
Column phase: ZB MR-2

Instrument: ecd3.i
Operator: EM
Column diameter: 0.32



J.H. 10.2.11

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SW-846 METHODS 8081A/8082

Data file : \\BC\TARGET\chem\ecd3.i\092811.b\014F1401.D
Lab Smp Id: SEQ-CCV4
Inj Date : 28-SEP-2011 12:58
Operator : EM Inst ID: ecd3.i
Smp Info : SEQ-CCV4
Misc Info : ;;;;;;AR1660.sub
Comment :
Method : \\BC\TARGET\chem\ecd3.i\092811.b\8081_82F.m
Meth Date : 29-Sep-2011 14:26 jeh Quant Type: ESTD
Cal Date : 10-AUG-2011 19:35 Cal File: 002F0101.D
Als bottle: 14 Continuing Calibration Sample
Dil Factor: 1.00000
Integrator: Falcon Compound Sublist: ar1660.sub
Target Version: 4.04 Sample Matrix: None
Processing Host: NSH-LAPTOP1

RT	EXP RT	DLT RT	RESPONSE	AMOUNTS CAL-AMT (ng/mL)	AMOUNTS ON-COL (ng/mL)	TARGET RANGE	RATIO
29 PCB-1016					CAS #: 12674-11-2		
7.107	7.107	(0.000)	1894770	1000.00	1356	80.00- 120.00	100.00
6.558	6.559	(-0.001)	857076	1000.00	1276	36.19- 54.28	45.23
6.773	6.774	(-0.001)	850506	1000.00	1290	35.91- 53.86	44.89
7.083	7.084	(-0.001)	1241253	1000.00	1294	52.41- 78.61	65.51
7.177	7.177	(0.000)	1053884			44.50- 66.74	55.62
7.290	7.290	(0.000)	856541	1000.00	1308	36.16- 54.25	45.21
		Average of Peak Amounts =			X 1305		
35 PCB-1260					CAS #: 11096-82-5		
10.497	10.497	(0.000)	4392998	1000.00	1223	80.00- 120.00	100.00
9.025	9.025	(0.000)	1830452			33.33- 50.00	41.67
9.357	9.357	(0.000)	2326533	1000.00	1207	42.37- 63.55	52.96
9.707	9.707	(0.000)	2580479	1000.00	1235	46.99- 70.49	58.74
9.812	9.812	(0.000)	1805928	1000.00	1216	32.89- 49.33	41.11
10.093	10.094	(-0.001)	1875127			34.15- 51.22	42.68
10.857	10.857	(0.000)	2649191			48.24- 72.37	60.30
11.605	11.605	(0.000)	*1147207	1000.00	1155	20.89- 31.34	26.11
		Average of Peak Amounts =			1207		

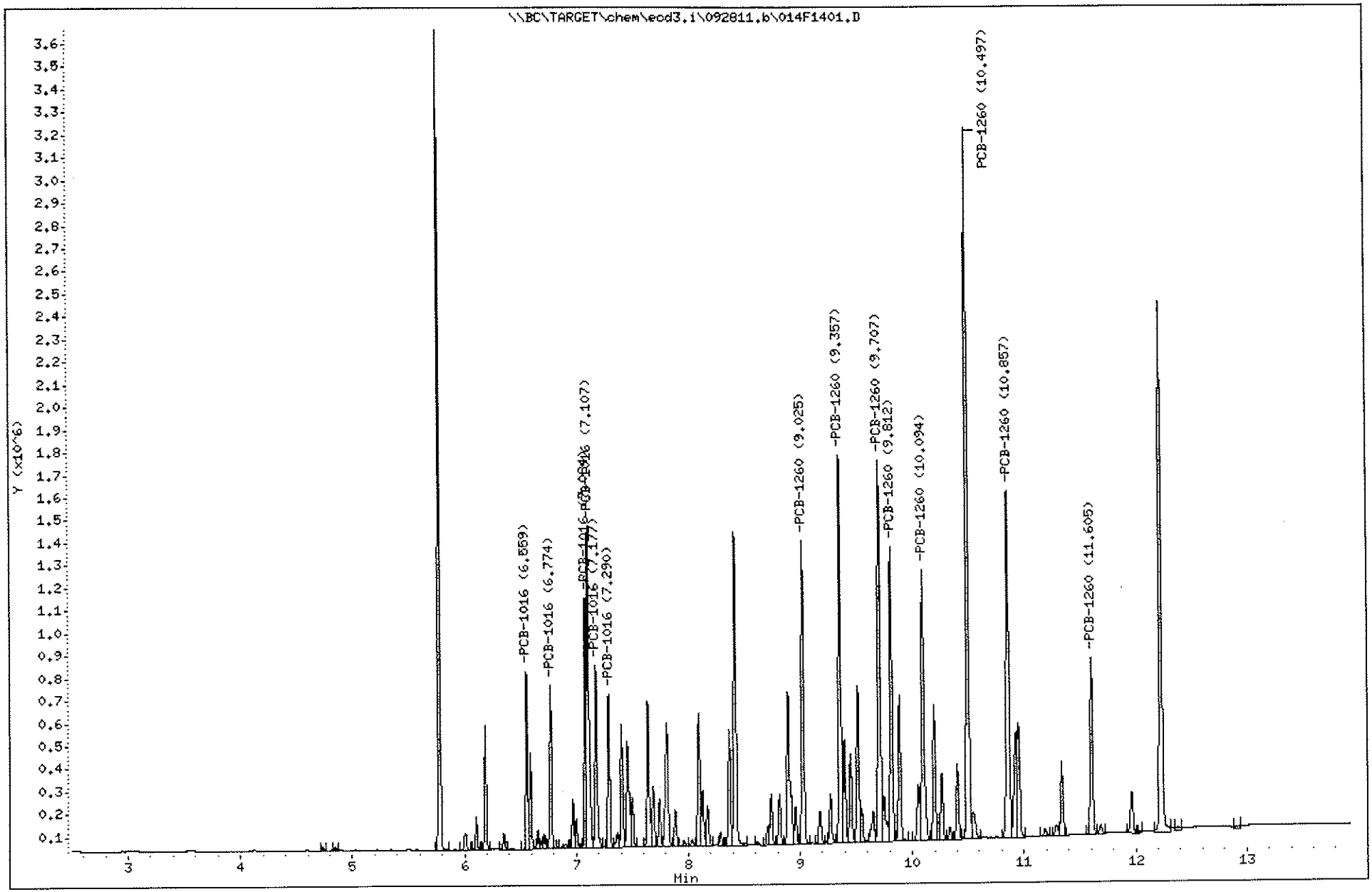
10/4/11

Data File: \\BC\TARGET\chem\ecd3.i\092811.b\014F1401.D
Date : 28-SEP-2011 12:58
Client ID:
Sample Info: SEQ-CCV4

Column phase: ZB MR-1

Instrument: ecd3.i

Operator: EH
Column diameter: 0.32



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J.H. 10.2.11

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SW-846 METHODS 8081A/8082

Data file : \\BC\TARGET\chem\ecd3.i\092811.b\014R1401.D
Lab Smp Id: SEQ-CCV4
Inj Date : 28-SEP-2011 12:58
Operator : EM Inst ID: ecd3.i
Smp Info : SEQ-CCV4
Misc Info : ;;;;;;AR1660.sub
Comment :
Method : \\BC\TARGET\chem\ecd3.i\092811.b\8081_82R.m
Meth Date : 29-Sep-2011 14:27 jeh Quant Type: ESTD
Cal Date : 10-AUG-2011 19:35 Cal File: 002R0101.D
Als bottle: 14 Continuing Calibration Sample
Dil Factor: 1.00000
Integrator: Falcon Compound Sublist: ar1660.sub
Target Version: 4.04 Sample Matrix: None
Processing Host: NSH-LAPTOP1

RT	EXP RT	DLT RT	RESPONSE	AMOUNTS CAL-AMT (ng/mL)	AMOUNTS ON-COL (ng/mL)	TARGET RANGE	RATIO
29 PCB-1016 [2C]					CAS #: 12674-11-2		
6.329	6.330	(-0.001)	1670866	1000.00	X 1597	80.00- 120.00	100.00
5.529	5.530	(-0.001)	616449			29.52- 44.27	36.89
6.061	6.061	(0.000)	864380	1000.00	1507	41.39- 62.08	51.73
6.311	6.311	(0.000)	1282269	1000.00	1552	61.39- 92.09	76.74
6.529	6.530	(-0.001)	858702	1000.00	1522	41.11- 61.67	51.39
6.581	6.581	(0.000)	863018	1000.00	1432	41.32- 61.98	51.65
		Average of Peak Amounts =			1522		
35 PCB-1260 [2C]					CAS #: 11096-82-5		
9.413	9.413	(0.000)	3834548	1000.00	1469	80.00- 120.00	100.00
8.311	8.311	(0.000)	2173534	1000.00	1429	45.35- 68.02	56.68
8.498	8.497	(0.001)	2009663	1000.00	1421	41.93- 62.89	52.41
8.719	8.720	(-0.001)	2301292	1000.00	1470	48.01- 72.02	60.01
8.769	8.770	(-0.001)	1862989			38.87- 58.30	48.58
9.094	9.095	(-0.001)	* 1666257	1000.00	1450	34.76- 52.14	43.45
9.854	9.855	(-0.001)	2670783			55.72- 83.58	69.65
10.501	10.501	(0.000)	903390			18.85- 28.27	23.56
		Average of Peak Amounts =			1448		

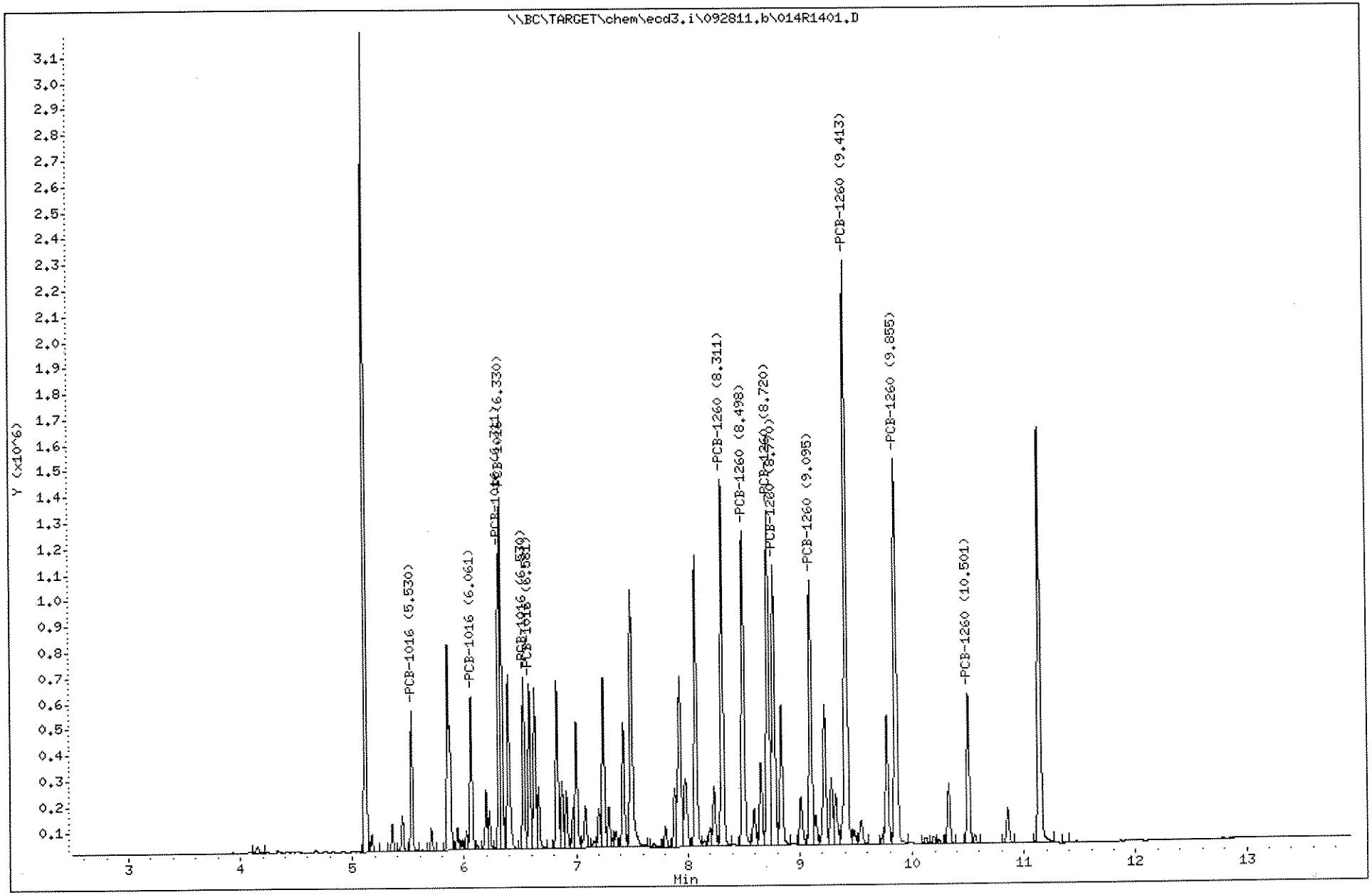
10/4/11

Data File: \\BC\TARGET\chem\ecd3.i\092811.b\014R1401.D
Date : 28-SEP-2011 12:58
Client ID:
Sample Info: SEQ-CCV4

Column phase: ZB MR-2

Instrument: ecd3.i

Operator: EM
Column diameter: 0.32



1439

1109191

J.H. 10.2.11

Empirical Laboratories, LLC

Sample #1 : \\BC\TARGET\chem\ecd3.i\092811.b\028F2801.D
Sample #2 : \\BC\TARGET\chem\ecd3.i\092811.b\028R2801.D
Inj Date : 28-SEP-2011 17:20
Sample Info: 1I23014-BLK1
Misc Info : ;;;;;;tcl2.sub
Cal Date : 29-SEP-2011 23:34
Operator : EM
Inst ID : ecd3.i
Dil Factor : 1.000000

Method #1 : \\BC\TARGET\chem\ecd3.i\092811.b\8081_82F.m
Method #2 : \\BC\TARGET\chem\ecd3.i\092811.b\8081_82R.m
Sub List #1 : tcl2.sub
Sub List #2 : tcl2.sub
Col #1 Phase : ZB MR-1
Col #2 Phase : ZB MR-2

Compound	RT#1	RT#2	Resp#1	Resp#2	Conc#1	Conc#2	Target Range	Ratio
Gamma-Chlordane	0.000	7.496	0	42763	0.0000	1.046	NC	
TCMX	5.777	5.116	1282927	1280007	35.95	36.42		100.00(R)
DCB	12.225	11.138	1001644	847972	27.57	28.97		100.00(R)

QC Flag Legend

R - Spike/Surrogate failed recovery limits.

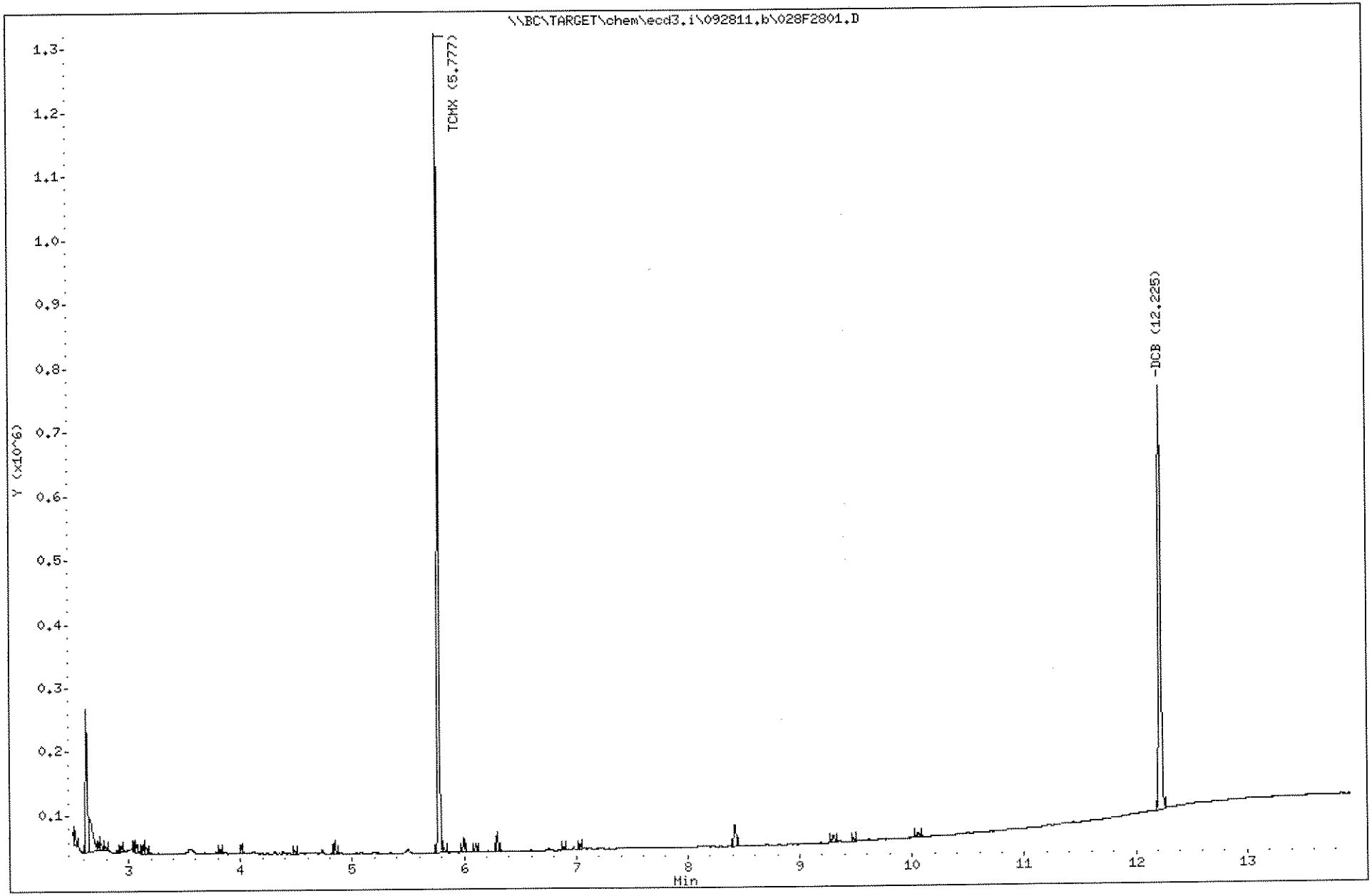
10/4/11

Data File: \\BC\TARGET\chem\ecd3.i\092811.b\028F2801.D
Date : 28-SEP-2011 17:20
Client ID:
Sample Info: 1I23014-BLK1

Column phase: ZB MR-1

Instrument: ecd3.i

Operator: EM
Column diameter: 0.32

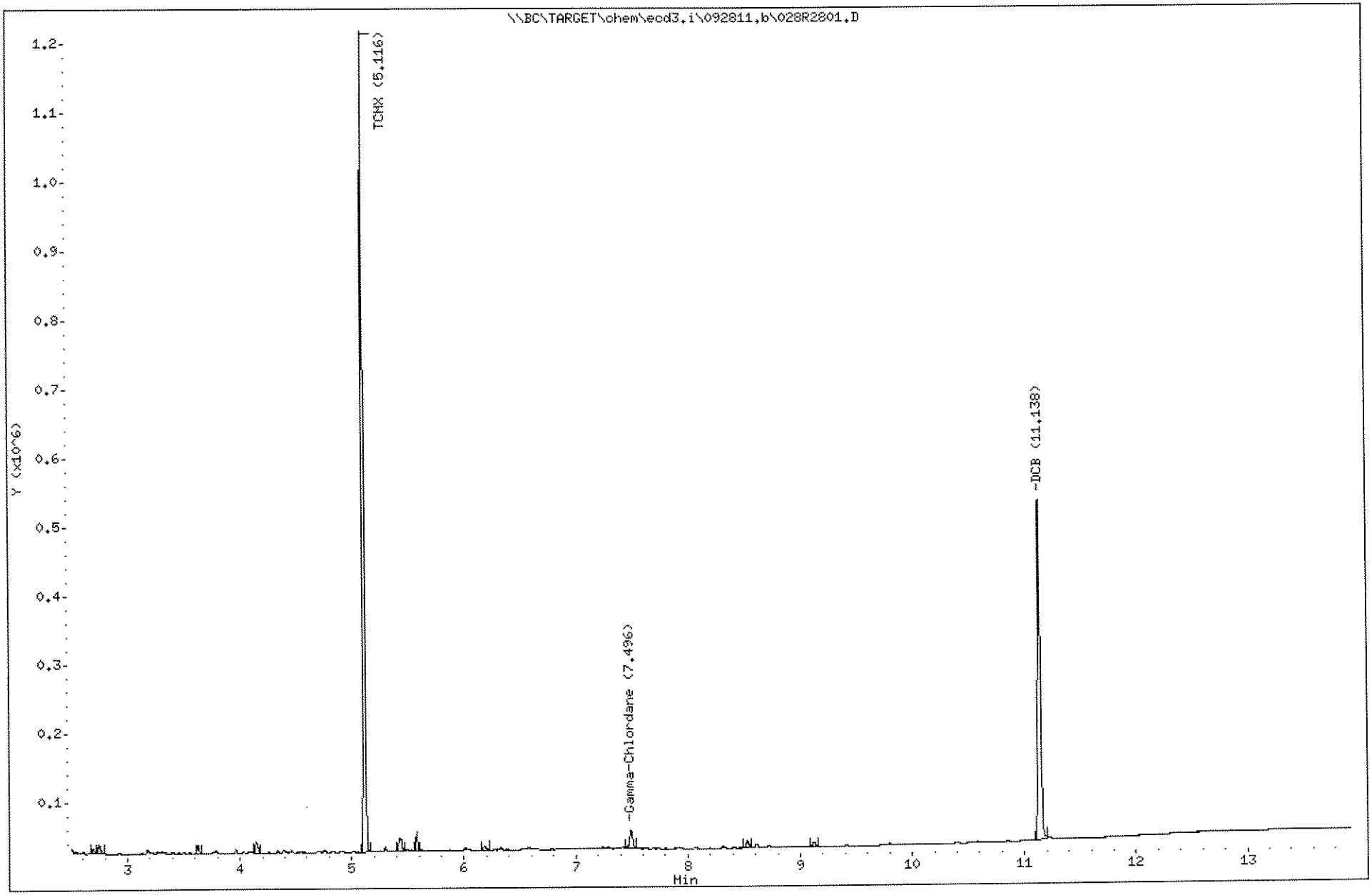


Data File: \\BC\TARGET\chem\ecd3.i\092811.b\028R2801.D
Date : 28-SEP-2011 17:20
Client ID:
Sample Info: 1I23014-BLK1

Column phase: ZB MR-2

Instrument: ecd3.i

Operator: EM
Column diameter: 0.32



1442

1109191

J.H. 10.2.11

Empirical Laboratories, LLC

Sample #1 : \\BC\TARGET\chem\ecd3.i\092811.b\029F2901.D
Sample #2 : \\BC\TARGET\chem\ecd3.i\092811.b\029R2901.D
Inj Date : 28-SEP-2011 17:38
Sample Info: 1I23014-BS1
Misc Info : ;;;;;;tcl2.sub
Cal Date : 29-SEP-2011 23:34
Operator : EM
Inst ID : ecd3.i
Dil Factor : 1.000000

Method #1 : \\BC\TARGET\chem\ecd3.i\092811.b\8081_82F.m
Method #2 : \\BC\TARGET\chem\ecd3.i\092811.b\8081_82R.m
Sub List #1 : pcb.sub
Sub List #2 : pcb.sub
Col #1 Phase : ZB MR-1
Col #2 Phase : ZB MR-2

Compound	RT#1	RT#2	Resp#1	Resp#2	Conc#1	Conc#2	Target Range	Ratio
PCB-1016	7.107	6.331	1001756	1024259	691.1	978.9	80.00- 120.00	100.00
	6.560	5.529	512847	360254	757.9		35.43- 53.15	51.19
	6.773	6.061	503472	553991	757.8	965.7	34.78- 52.16	50.26
	7.083	6.311	759234	781201	787.9	945.3	52.56- 78.84	75.79
	7.178	6.529	600899	543232		962.9	40.37- 60.55	53.04
	7.290	6.581	508207	495674	775.6	822.8	35.49- 53.23	50.73
		Average of Peak Amounts =			754.1	935.1		
PCB-1260	10.495	9.414	2254444	2215259	627.9	848.5	80.00- 120.00	100.00
	9.027	8.311	1071967	1441241		947.4	45.12- 67.68	65.06
	9.358	8.498	1335348	1345088	692.8	951.3	42.90- 64.35	59.23
	9.708	8.719	1619217	1610100	775.0	1029	45.59- 68.38	71.82
	9.812	8.769	893775	1036336	601.7		31.79- 47.69	39.65
	10.093	9.096	1004124	949763		826.4	34.72- 52.08	42.87
	10.858	9.854	1389522	1540082			55.59- 83.39	69.52
	11.605	10.503	516302	459604	519.9		20.07- 30.10	22.90
		Average of Peak Amounts =			643.5	920.5		
TCMX	5.777	5.116	1348243	1330024	37.78	37.84		100.00(R)
DCB	12.225	11.138	1083305	929730	29.82	31.76		100.00(R)

QC Flag Legend

R - Spike/Surrogate failed recovery limits.

10/4/11

Data File: \\BC\TARGET\chem\ecd3.i\092811.b\029F2901.D

Date : 28-SEP-2011 17:38

Client ID:

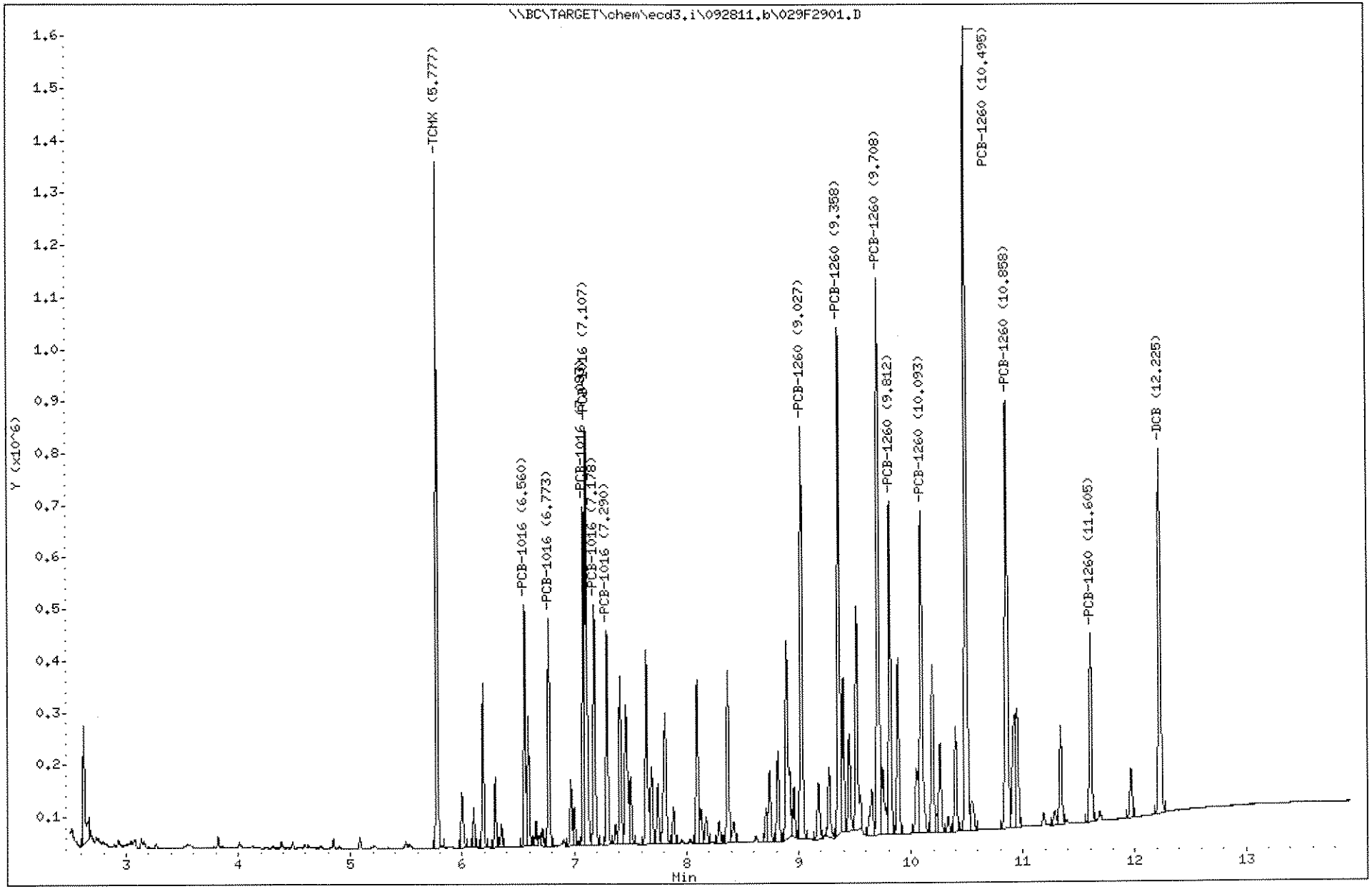
Sample Info: 1I23014-BS1

Column phase: ZB MR-1

Instrument: ecd3.i

Operator: EM

Column diameter: 0.32

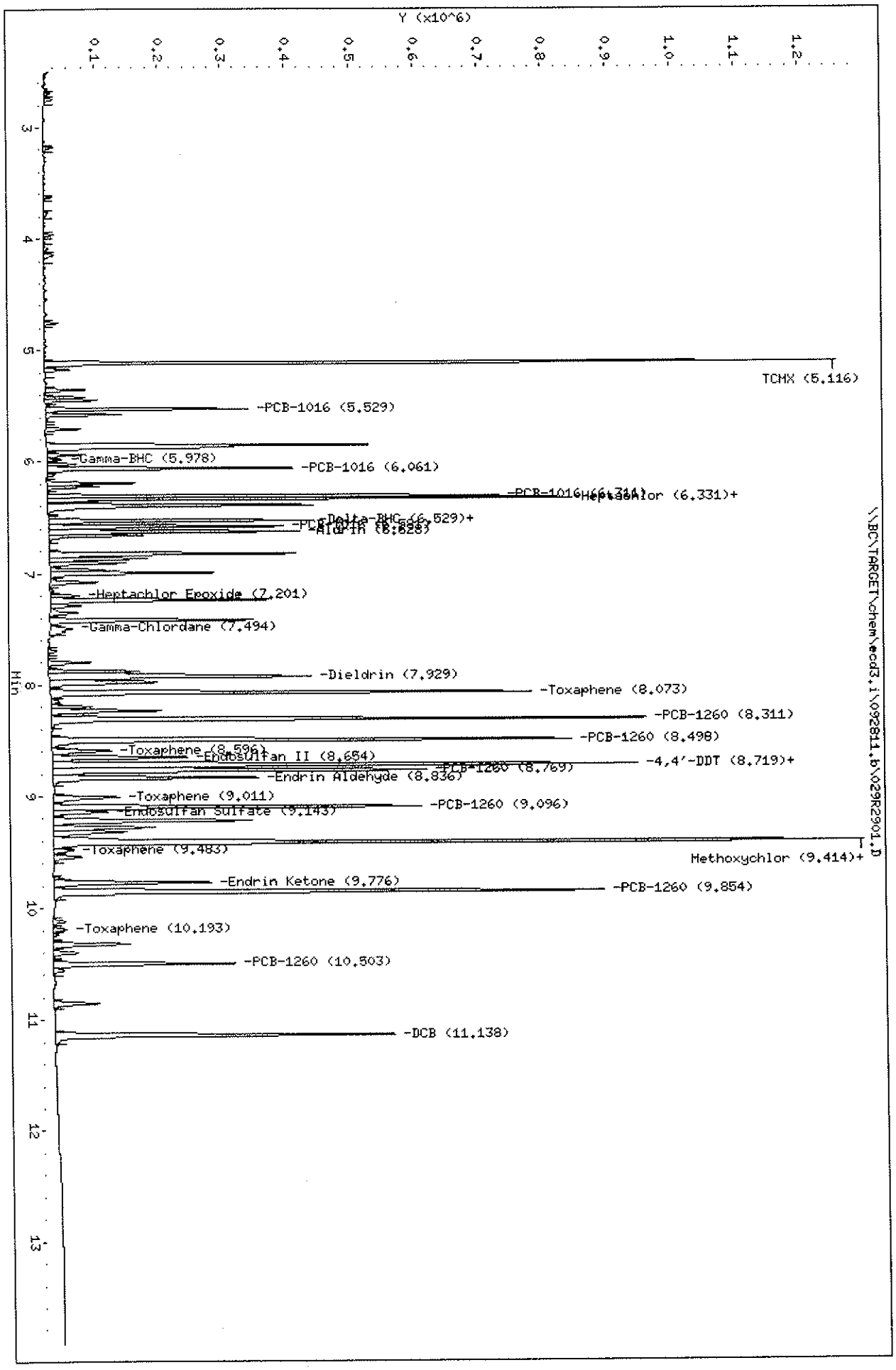


1444

1109191

Data File: \\BC\TARGET\chem\ecd3.i\092811.b\029R2901.D
Date : 28-SEP-2011 17:38
Client ID:
Sample Info: 1123014-BS1
Column phase: ZB HR-2

Instrument: ecd3.i
Operator: EM
Column diameter: 0.32



JH. 10.2.11

Empirical Laboratories, LLC

Sample #1 : \\BC\TARGET\chem\ecd3.i\092811.b\030F3001.D
Sample #2 : \\BC\TARGET\chem\ecd3.i\092811.b\030R3001.D
Inj Date : 28-SEP-2011 17:57
Sample Info: 1I23014-BSD1
Misc Info : ;;;;;;tcl2.sub
Cal Date : 29-SEP-2011 23:34
Operator : EM
Inst ID : ecd3.i
Dil Factor : 1.000000

Method #1 : \\BC\TARGET\chem\ecd3.i\092811.b\8081_82F.m
Method #2 : \\BC\TARGET\chem\ecd3.i\092811.b\8081_82R.m
Sub List #1 : pcb.sub
Sub List #2 : pcb.sub
Col #1 Phase : ZB MR-1
Col #2 Phase : ZB MR-2

Compound	RT#1	RT#2	Resp#1	Resp#2	Conc#1	Conc#2	Target Range	Ratio
PCB-1016	7.108	6.331	973813	1020298	670.3	975.1	80.00- 120.00	100.00
	6.560	5.531	494051	350977	729.6		35.43- 53.15	50.73
	6.773	6.062	483879	532311	727.7	927.9	34.78- 52.16	49.69
	7.083	6.311	723622	734552	750.6	888.9	52.56- 78.84	74.31
	7.178	6.531	578442	525912		932.2	40.37- 60.55	51.54
	7.291	6.582	488367	477354	745.3	792.3	35.49- 53.23	50.15
		Average of Peak Amounts =			724.7	903.3		
PCB-1260	10.496	9.412	2197980	2172533	612.1	832.1	80.00- 120.00	100.00
	9.026	8.311	1045084	1392945		915.6	45.12- 67.68	64.12
	9.358	8.499	1305515	1321205	677.3	934.4	42.90- 64.35	59.40
	9.708	8.721	1532084	1569682	733.3	1003	45.59- 68.38	69.70
	9.813	8.771	842969	1011408	567.5		31.79- 47.69	38.35
	10.095	9.097	971292	932551		811.4	34.72- 52.08	42.92
	10.858	9.856	1311650	1509598			55.59- 83.39	69.49
	11.605	10.502	502804	451432	506.3		20.07- 30.10	22.88
		Average of Peak Amounts =			619.3	899.3		
TCMX	5.778	5.116	1089989	1109102	30.54	31.55		100.00(R)
DCB	12.226	11.137	1134934	982859	31.24	33.58		100.00(R)

QC Flag Legend

R - Spike/Surrogate failed recovery limits.

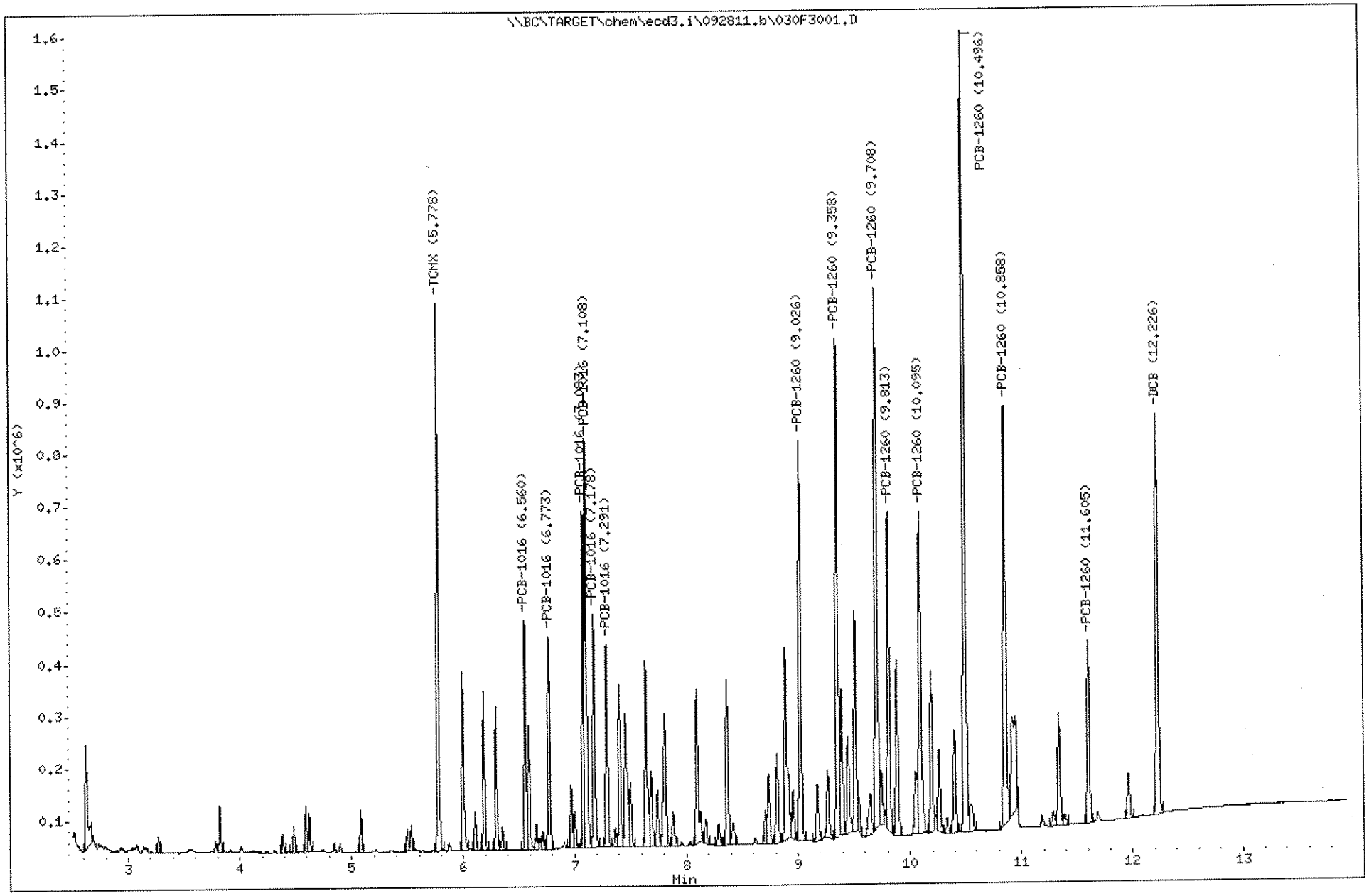
10/4/11

Data File: \\BC\TARGET\chem\ecd3.i\092811.b\030F3001.D
Date : 28-SEP-2011 17:57
Client ID:
Sample Info: 1I23014-BSD1

Instrument: ecd3.i

Operator: EM
Column diameter: 0.32

Column phase: ZB MR-1



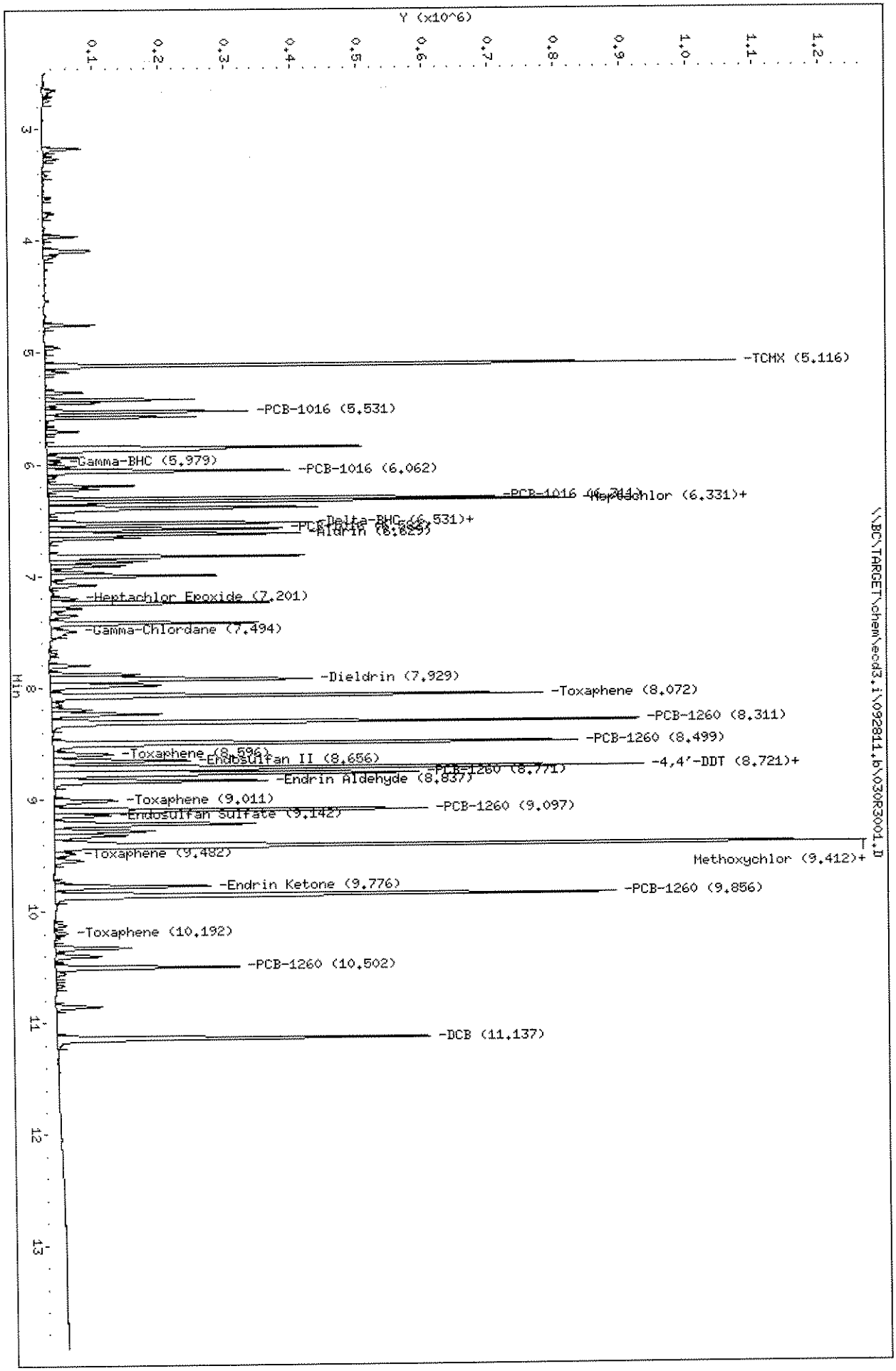
1447

1109191

Data File: \\BC\TARGET\chem\ecd3.i\092811.b\030R3001.D
Date : 28-SEP-2011 17:57
Client ID:
Sample Info: 1I23014-BSD1

Column phase: ZB HR-2

Instrument: ecd3.i
Operator: EM
Column diameter: 0.32



J.H. 10.2.11

Empirical Laboratories, LLC

SW-846 METHODS 8081A/8082

Data file : \\BC\TARGET\chem\ecd3.i\092811.b\037F3701.D
Lab Smp Id: SEQ-CCV5
Inj Date : 28-SEP-2011 20:08
Operator : EM Inst ID: ecd3.i
Smp Info : SEQ-CCV5
Misc Info : ;;;;;;INDABD.sub
Comment :
Method : \\BC\TARGET\chem\ecd3.i\092811.b\8081_82F.m
Meth Date : 29-Sep-2011 14:20 jeh Quant Type: ESTD
Cal Date : 10-AUG-2011 19:35 Cal File: 002F0101.D
Als bottle: 37 Continuing Calibration Sample
Dil Factor: 1.00000
Integrator: Falcon Compound Sublist: INDABD.sub
Target Version: 4.04
Processing Host: NSH-LAPTOP1

Compounds	RT	EXP RT	DLT RT	RESPONSE		AMOUNTS CAL-AMT (ng/mL)	ON-COL (ng/mL)
$ 38 TCMX	5.777	5.778	-0.001	3875810		100.000	108.6
3 Alpha-BHC	6.244	6.247	-0.003	6275450		100.000	118.7
23 Gamma-BHC	6.594	6.595	-0.001	5555000		100.000	113.9
5 Beta-BHC	6.791	6.793	-0.002	2271098		100.000	106.2
15 Delta-BHC	7.071	7.072	-0.001	5225626		100.000	115.0
25 Heptachlor	7.237	7.240	-0.003	5088075		100.000	112.8
2 Aldrin	7.627	7.628	-0.001	5336282		100.000	111.7
26 Heptachlor Epoxide	8.116	8.119	-0.003	4810275		100.000	105.9
24 Gamma-Chlordane	8.419	8.422	-0.003	5106837		100.000	X 84.04
4 Alpha-Chlordane	8.514	8.516	-0.002	4773148		100.000	101.1
17 Endosulfan I	8.581	8.583	-0.002	4492760		100.000	106.8
13 4,4'-DDE	8.707	8.708	-0.001	4808082		100.000	110.1
16 Dieldrin	8.912	8.915	-0.003	4909938		100.000	111.3
20 Endrin	9.199	9.200	-0.001	3783050		100.000	112.5
12 4,4'-DDD	9.347	9.348	-0.001	4044327		100.000	113.1
18 Endosulfan II	9.471	9.472	-0.001	4082064		100.000	108.0
21 Endrin Aldehyde	9.631	9.633	-0.002	3274314		100.000	110.9
14 4,4'-DDT	9.742	9.743	-0.001	3872361		100.000	116.0
19 Endosulfan Sulfate	9.926	9.928	-0.002	3733225		100.000	114.9
27 Methoxychlor	10.341	10.343	-0.002	1999245		100.000	107.6
22 Endrin Ketone	10.549	10.552	-0.003	4665752	*	100.000	112.1
$ 39 DCB	12.226	12.225	0.001	3726392		100.000	102.6

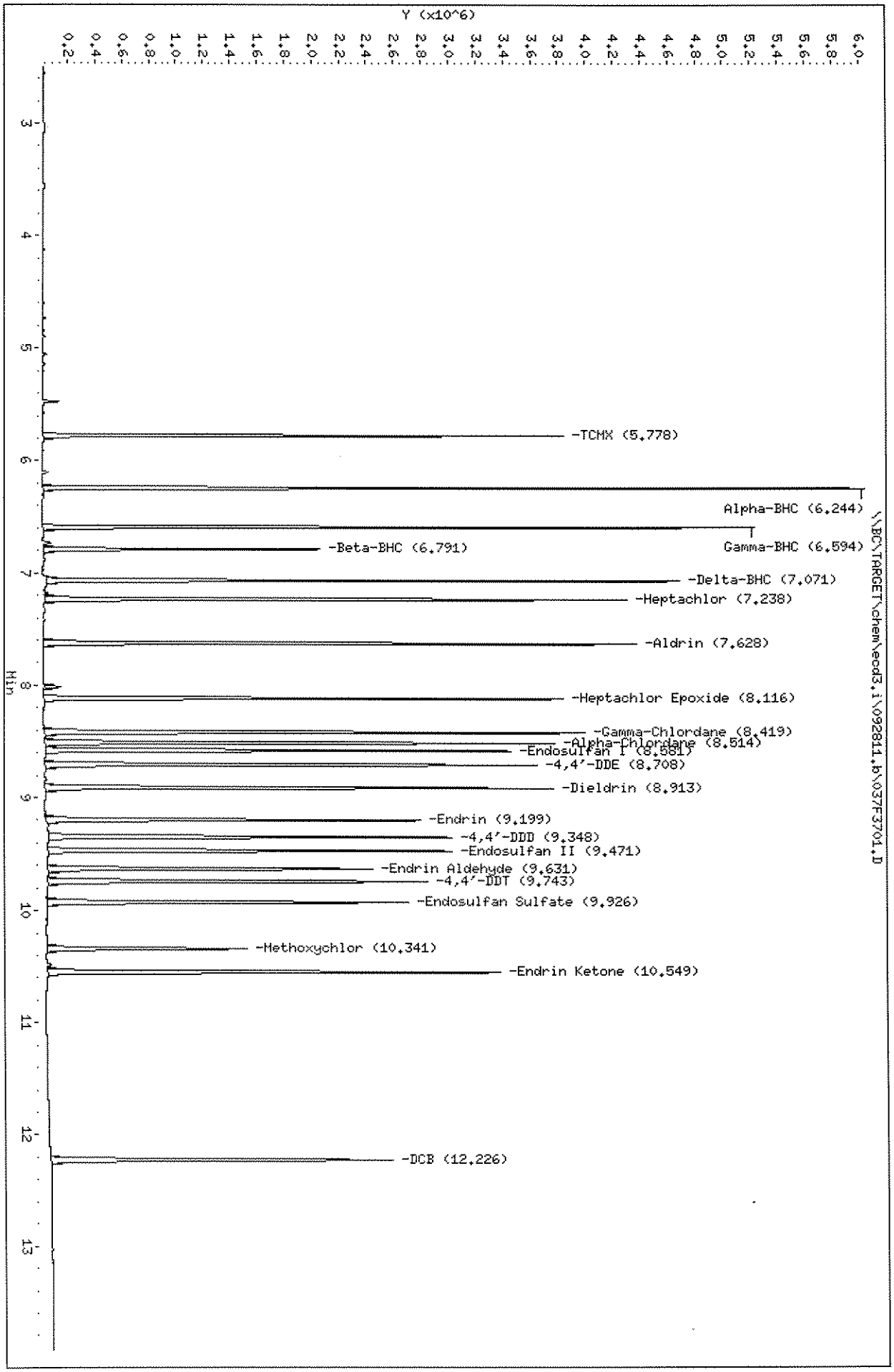
10/4/11

Data File: \\BC\TARGET\chem\ecd3.i\092811.b\037F3701.D
Date : 28-SEP-2011 20:08
Client ID:
Sample Info: SEQ-CCV5

Instrument: ecd3.i

Column phase: ZB MR-1

Operator: EN
Column diameter: 0.32



J.H. 10.2.11

Empirical Laboratories, LLC

SW-846 METHODS 8081A/8082

Data file : \\BC\TARGET\chem\ecd3.i\092811.b\037R3701.D
Lab Smp Id: SEQ-CCV5
Inj Date : 28-SEP-2011 20:08
Operator : EM Inst ID: ecd3.i
Smp Info : SEQ-CCV5
Misc Info : ;;;;;;INDABD.sub
Comment :
Method : \\BC\TARGET\chem\ecd3.i\092811.b\8081_82R.m
Meth Date : 29-Sep-2011 14:56 jeh Quant Type: ESTD
Cal Date : 10-AUG-2011 19:35 Cal File: 002R0101.D
Als bottle: 37 Continuing Calibration Sample
Dil Factor: 1.00000
Integrator: Falcon Compound Sublist: INDABD.sub
Target Version: 4.04
Processing Host: NSH-LAPTOP1

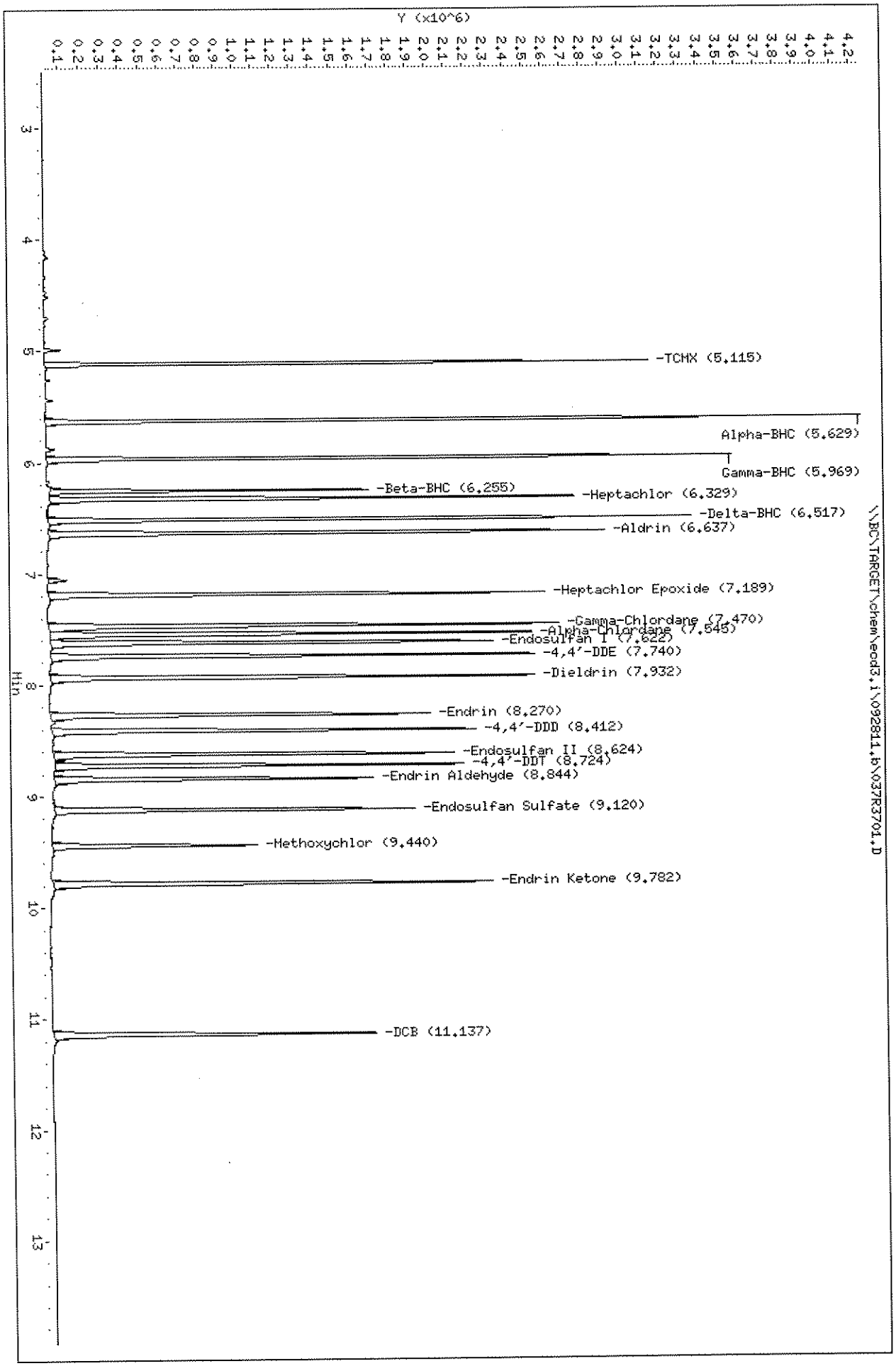
Compounds	RT	EXP RT	DLT RT	RESPONSE	AMOUNTS CAL-AMT (ng/mL)	AMOUNTS ON-COL (ng/mL)
$ 38 TCMX [2C]	5.115	5.116	-0.001	3381035	100.000	96.19
3 Alpha-BHC [2C]	5.628	5.629	-0.001	4957617 X	100.000	100.7
23 Gamma-BHC [2C]	5.968	5.968	0.000	4425283	100.000	99.30
5 Beta-BHC [2C]	6.255	6.258	-0.003	2014920	100.000	88.96
25 Heptachlor [2C]	6.328	6.329	-0.001	3856355	100.000	102.0
15 Delta-BHC [2C]	6.517	6.518	-0.001	4262504	100.000	102.6
2 Aldrin [2C]	6.637	6.638	-0.001	4290355	100.000	96.02
26 Heptachlor Epoxide [2C]	7.188	7.189	-0.001	3920768	100.000	93.63
24 Gamma-Chlordane [2C]	7.470	7.471	-0.001	4229468	100.000	103.4
4 Alpha-Chlordane [2C]	7.545	7.546	-0.001	3994615	100.000	87.75
17 Endosulfan I [2C]	7.622	7.624	-0.002	3688480	100.000	94.54
13 4,4'-DDE [2C]	7.740	7.743	-0.003	3822743	100.000	96.48
16 Dieldrin [2C]	7.932	7.934	-0.002	4073182	100.000	97.26
20 Endrin [2C]	8.270	8.273	-0.003	3259119	100.000	98.01
12 4,4'-DDD [2C]	8.412	8.413	-0.001	3444548	100.000	100.3
18 Endosulfan II [2C]	8.623	8.625	-0.002	3346724	100.000	96.12
14 4,4'-DDT [2C]	8.723	8.726	-0.003	3308686	100.000	103.7
21 Endrin Aldehyde [2C]	8.843	8.846	-0.003	2715209	100.000	99.21
19 Endosulfan Sulfate [2C]	9.120	9.123	-0.003	3050349	100.000	104.4
27 Methoxychlor [2C]	9.440	9.441	-0.001	1718588	100.000	97.20
22 Endrin Ketone [2C]	9.782	9.783	-0.001	3822931 *	100.000	107.6
$ 39 DCB [2C]	11.137	11.138	-0.001	2822423	100.000	96.43

10/4/11

Data File: \\BC\TARGET\chem\ecd3.i\092811.b\037R3701.D
Date : 28-SEP-2011 20:08
Client ID:
Sample Info: SEQ-CCV5

Column phase: ZB MR-2

Instrument: ecd3.i
Operator: EM
Column diameter: 0.32



JH. 10.2.11

Empirical Laboratories, LLC

SW-846 METHODS 8081A/8082

Data file : \\BC\TARGET\chem\ecd3.i\092811.b\040F4001.D
Lab Smp Id: SEQ-CCV8
Inj Date : 28-SEP-2011 21:04
Operator : EM Inst ID: ecd3.i
Smp Info : SEQ-CCV8
Misc Info : ;;;;;;AR1660.sub
Comment :
Method : \\BC\TARGET\chem\ecd3.i\092811.b\8081_82F.m
Meth Date : 29-Sep-2011 14:23 jeh Quant Type: ESTD
Cal Date : 10-AUG-2011 19:35 Cal File: 002F0101.D
Als bottle: 40 Continuing Calibration Sample
Dil Factor: 1.00000
Integrator: Falcon Compound Sublist: AR1660.sub
Target Version: 4.04 Sample Matrix: None
Processing Host: NSH-LAPTOP1

AMOUNTS

RT	EXP RT	DLT RT	RESPONSE	CAL-AMT (ng/mL)	ON-COL (ng/mL)	TARGET RANGE	RATIO
29 PCB-1016					CAS #: 12674-11-2		
7.107	7.107	(0.000)	2005852	1000.00	1438	80.00- 120.00	100.00
6.558	6.559	(-0.001)	894804	1000.00	1333	35.69- 53.53	44.61
6.773	6.774	(-0.001)	886942	1000.00	1346	35.37- 53.06	44.22
7.083	7.084	(-0.001)	1306262	1000.00	1362	52.10- 78.15	65.12
7.177	7.177	(0.000)	1095352			43.69- 65.53	54.61
7.290	7.290	(0.000)	894010	1000.00	1366	35.66- 53.48	44.57
		Average of Peak Amounts =			X 1369		
35 PCB-1260					CAS #: 11096-82-5		
10.495	10.497	(-0.002)	4671106	1000.00	1301	80.00- 120.00	100.00
9.025	9.025	(0.000)	1944498			33.30- 49.95	41.63
9.357	9.357	(0.000)	2454907	1000.00	1274	42.04- 63.07	52.56
9.707	9.707	(0.000)	2738619	1000.00	1311	46.90- 70.35	58.63
9.812	9.812	(0.000)	* 1920977	1000.00	1293	32.90- 49.35	41.12
10.093	10.094	(-0.001)	1987030			34.03- 51.05	42.54
10.857	10.857	(0.000)	2821946			48.33- 72.50	60.41
11.605	11.605	(0.000)	1209407	1000.00	1218	20.71- 31.07	25.89
		Average of Peak Amounts =			1279		

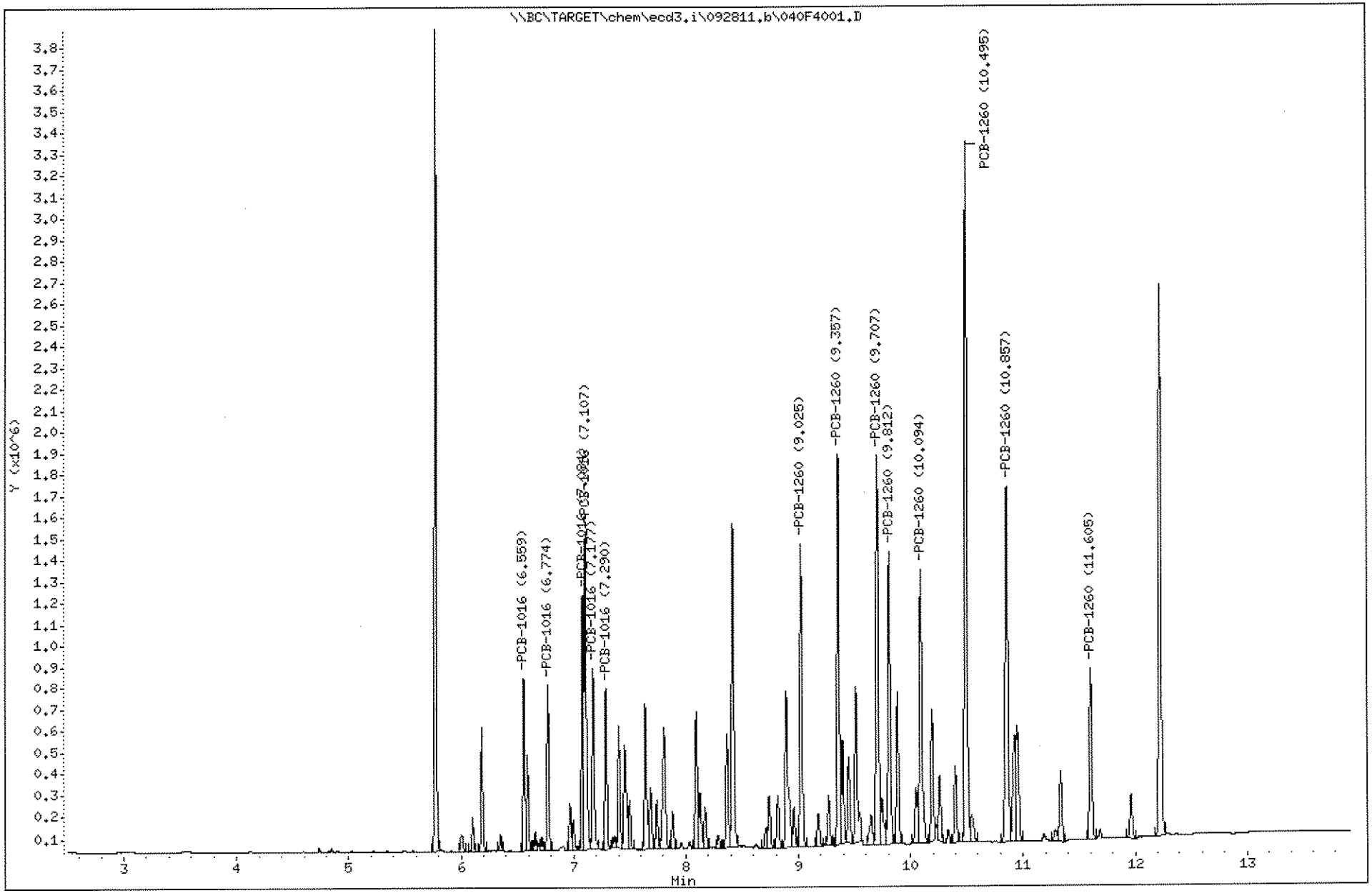
10/4/11

Data File: \\BC\TARGET\chem\ecd3.i\092811.b\040F4001.D
Date : 28-SEP-2011 21:04
Client ID:
Sample Info: SEQ-CCV8

Instrument: ecd3.i

Operator: EM
Column diameter: 0.32

Column phase: ZB MR-1



D.H. 10.2.11

Empirical Laboratories, LLC

SW-846 METHODS 8081A/8082

Data file : \\BC\TARGET\chem\ecd3.i\092811.b\040R4001.D
Lab Smp Id: SEQ-CCV8
Inj Date : 28-SEP-2011 21:04
Operator : EM Inst ID: ecd3.i
Smp Info : SEQ-CCV8
Misc Info : ;;;;;;AR1660.sub
Comment :
Method : \\BC\TARGET\chem\ecd3.i\092811.b\8081_82R.m
Meth Date : 29-Sep-2011 14:23 jeh Quant Type: ESTD
Cal Date : 10-AUG-2011 19:35 Cal File: 002R0101.D
Als bottle: 40 Continuing Calibration Sample
Dil Factor: 1.00000
Integrator: Falcon Compound Sublist: AR1660.sub
Target Version: 4.04 Sample Matrix: None
Processing Host: NSH-LAPTOP1

RT	EXP RT	DLT RT	RESPONSE	AMOUNTS CAL-AMT (ng/mL)	AMOUNTS ON-COL (ng/mL)	TARGET RANGE	RATIO
29 PCB-1016 [2C]					CAS #: 12674-11-2		
6.329	6.330	(-0.001)	1718187	1000.00	1642	80.00- 120.00	100.00
5.529	5.530	(-0.001)	612801			28.53- 42.80	35.67
6.061	6.061	(0.000)	860283	1000.00	1500	40.06- 60.08	50.07
6.309	6.311	(-0.002)	1241844	1000.00	1503	57.82- 86.73	72.28
6.528	6.530	(-0.002)	860114	1000.00	1524	40.05- 60.07	50.06
6.579	6.581	(-0.002)	858221	1000.00	1424	39.96- 59.94	49.95
		Average of Peak Amounts =			1519		
35 PCB-1260 [2C]					CAS #: 11096-82-5		
9.411	9.413	(-0.002)	3925933	1000.00 X	1504	80.00- 120.00	100.00
8.311	8.311	(0.000)	2173946	1000.00	1429	44.30- 66.45	55.37
8.498	8.497	(0.001)	2025317	1000.00	1432	41.27- 61.91	51.59
8.719	8.720	(-0.001)	* 2330602	1000.00	1489	47.49- 71.24	59.36
8.769	8.770	(-0.001)	1879529			38.30- 57.45	47.87
9.096	9.095	(0.001)	1704900	1000.00	1483	34.74- 52.11	43.43
9.854	9.855	(-0.001)	2701140			55.04- 82.56	68.80
10.501	10.501	(0.000)	927581			18.90- 28.35	23.63
		Average of Peak Amounts =			1468		

10/4/11

Data File: \\BC\TARGET\chem\ecd3.i\092811.b\040R4001.D

Date : 28-SEP-2011 21:04

Client ID:

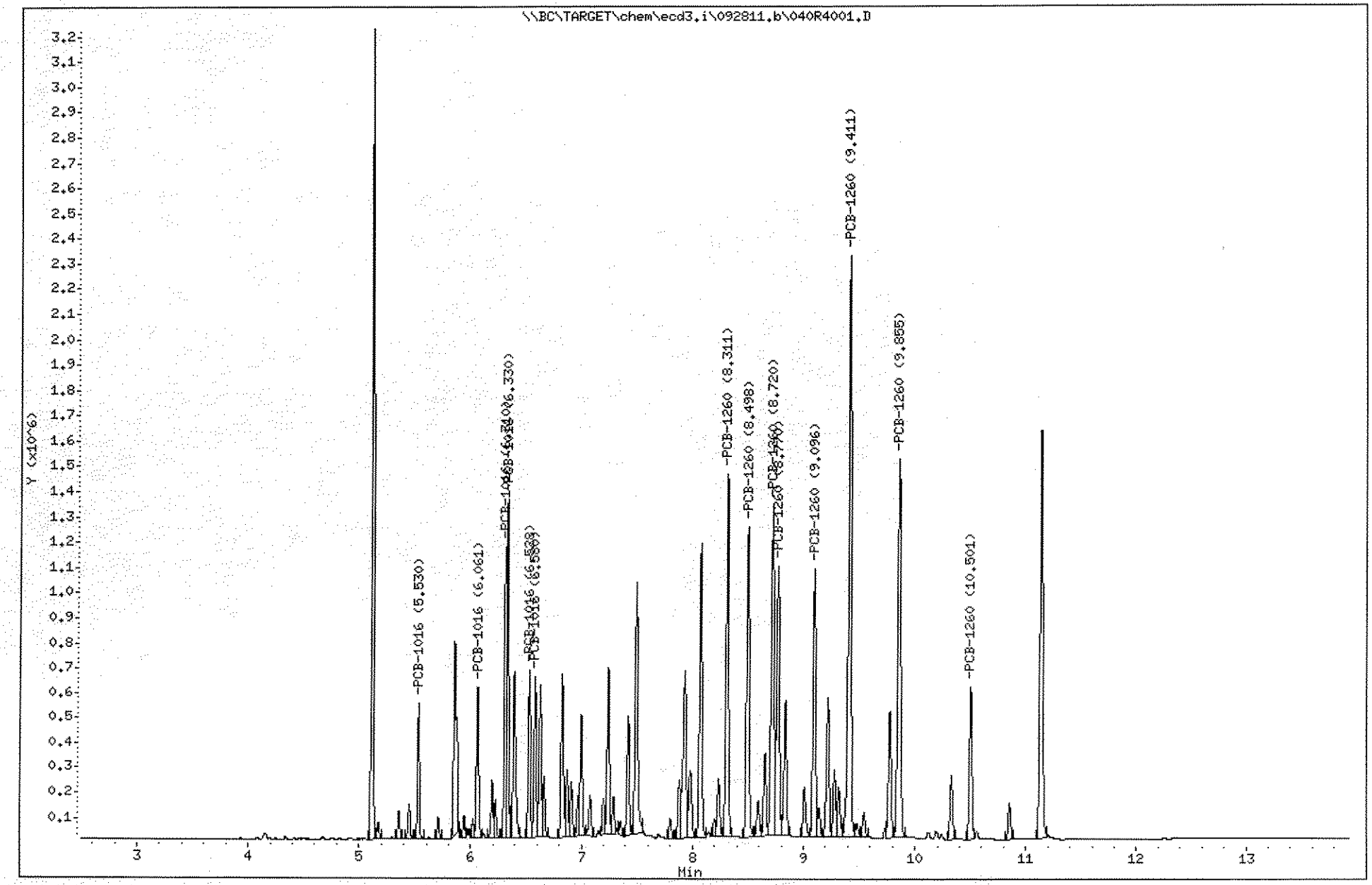
Sample Info: SEQ-CCV8

Column phase: ZB MR-2

Instrument: ecd3.i

Operator: EM

Column diameter: 0.32



1456

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PG 54a
EM210
10.3.11

Sequence Table (Front/Injector): Back

Quantification Part:

Line	Location	SampleName	SampleAmount	ISTDAmt	Multiplier	Dilution
1	Vial 1	Pest Primer				
2	Vial 2	SEQ-PEM1	ID# 1I0420			
3	Vial 3	SEQ-CCV1	1I0419(AB)			
4	Vial 4	SEQ-CCV2	1I0754 (Chlor)			
5	Vial 5	SEQ-CCV3	1I0795 (Tox)			
6	Vial 6	SEQ-CCV4	1I0557 (1660)			
7	Vial 7	SEQ-CCV5	1H0366 (1254)			
8	Vial 8	1109140-01	1x			
9	Vial 9	1109145-03				
10	Vial 10	1109145-04				
11	Vial 11	1109145-05				
12	Vial 12	SEQ-CCV6	ID# 1F0254 (1242)			
13	Vial 13	1109074-01;Cu	1x			
14	Vial 14	1109074-02;Cu				
15	Vial 15	1109074-04;Cu				
16	Vial 16	1109074-06;Cu				
17	Vial 17	1109074-09;Cu				
18	Vial 18	1109128-09	1x			
19	Vial 19	1I23012-MS1				
20	Vial 20	1I23012-MSD1				
21	Vial 21	1I23012-MS2				
22	Vial 22	SEQ-CCV7	(AB)			
23	Vial 23	SEQ-CCV8	(Chlor)			
24	Vial 24	SEQ-CCV9	(Tox)			
25	Vial 25	SEQ-CCVA	(1660)			
26	Vial 26	SEQ-CCVB	(1254)			
27	Vial 27	SEQ-CCVC	(1242)			
28	Vial 28	SEQ-PEM2				
29	Vial 43	1109131-01;Cu	1x			
30	Vial 44	1I22024-MS1;Cu				
31	Vial 45	1I22024-MSD1;Cu				
32	Vial 46	1I22024-MS2;Cu				
33	Vial 47	1I22024-MSD2;Cu				
34	Vial 48	1109131-02;Cu				
35	Vial 29	1109146-02				
36	Vial 30	1109170-01;pest				
37	Vial 31	1109170-01;pcb				
38	Vial 32	1109191-10				
39	Vial 33	1109102-02				
40	Vial 34	1109192-12				
41	Vial 35	1I21003-MS1				
42	Vial 36	~~1I21005~~-MSD1	1I21003	1x		
43	Vial 37	1109136-01	1x			
44	Vial 38	1109136-02				
45	Vial 39	SEQ-CCVD	(AB)			
46	Vial 40	SEQ-CCVE	(Chlor)			
47	Vial 41	SEQ-CCVF	(Tox)			
48	Vial 42	SEQ-CCVG	(1660)			
~~49~~	~~Vial 49~~	~~1109017-01;Cu~~	~~1x~~			
50	Vial 50	1I09010-MS1	Cu			
51	Vial 51	1I09010-MSD1	Cu			
52	Vial 52	1I09010-MS2	Cu			
53	Vial 53	1I09010-MSD2	Cu			
54	Vial 54	1109017-02;Cu				
55	Vial 55	1109017-03;Cu				
56	Vial 56	1109017-04;Cu				
57	Vial 57	1109017-05;Cu				
58	Vial 58	1109017-06;Cu				
59	Vial ~~59~~	~~1109017-07;Cu~~				

EM 10.3.11

SEQUENCE # 027708

UPLOADED IN A DIFFERENT SEQ. J.P. 10.4.11

Sequence: C:\HPCHEM\ECD3\SEQUENCE\093011A.S \ECD.S\HP 7F \600.2 62 FG 343

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10.3.11

Line	Location	SampleName	SampleAmount	ISTDAmt	Multiplier	Dilution
~~60~~	~~Vial 60~~	~~1109017-08;Cu~~				
61	Vial 61	1109061-01;Cu				
62	Vial 62	1109061-02;Cu				
63	Vial 63	SEQ-CCVH (KIB)				
64	Vial 64	SEQ-CCVI (Chlor)				
65	Vial 65	SEQ-CCVJ (Tox)				
66	Vial 66	SEQ-CCVK (1660)				
67	Vial 67	SEQ-CCVL 10# 11H0200 (1221)				
68	Vial 68	SEQ-CCVM 10L0110 (1232)				
69	Vial 69	SEQ-CCVN 11F0254 (1242)				
70	Vial 70	SEQ-CCVO 11D0886 (1244)				
71	Vial 71	SEQ-CCVP 11H0366 (1254)				
72	Vial 72	SEQ-CCVQ 10K0222 (1262)				
73	Vial 73	~~SEQ-CCVR~~ 10K0735 (1268)				

UPLOADED IN A DIFFERENT SEQ.

J.A. 10.4.11

~~Sequence Table (Back Injector):~~

~~No entries - empty table!~~

10.4.11

Empirical Laboratories, LLC

SW-846 METHODS 8081A/8082

Data file : \\BC\TARGET\chem\ecd3.i\093011A.b\002F0201.D
Lab Smp Id: SEQ-PEM1
Inj Date : 30-SEP-2011 13:59
Operator : EM Inst ID: ecd3.i
Smp Info : SEQ-PEM1
Misc Info : ;;;;;;PEM.sub
Comment :
Method : \\BC\TARGET\chem\ecd3.i\093011A.b\8081_82F.m
Meth Date : 04-Oct-2011 10:22 jeh Quant Type: ESTD
Cal Date : 13-OCT-2010 07:10 Cal File: 016F1601.D
Als bottle: 2
Dil Factor: 1.00000
Integrator: Falcon Compound Sublist: PEM.sub
Target Version: 4.04
Processing Host: NSH-LAPTOP1

Compounds	RT	EXP RT	DLT RT	RESPONSE	CONCENTRATIONS ON-COLUMN (ng/mL)	CONCENTRATIONS FINAL (ng/mL)
3 Alpha-BHC	6.205	6.205	0.000	98795	1.77683	1.777
23 Gamma-BHC	6.552	6.552	0.000	90652	1.90768	1.908
5 Beta-BHC	6.750	6.750	0.000	44040	2.02693	2.027
20 Endrin	9.148	9.148	0.000	310930	8.93866	8.939
21 Endrin Aldehyde	9.582	9.582	0.000	21331	0.71756	0.7176
22 Endrin Ketone	10.498	10.498	0.000	33298	0.85337	0.8534
14 4,4'-DDT	9.693	9.693	0.000	634267	21.8684	21.87
12 4,4'-DDD	9.300	9.300	0.000	32590	0.88899	0.8890
27 Methoxychlor	10.295	10.293	0.002	836130	52.9833	52.98

10/04/11

%BREAKDOWN:

$$\text{ENDRIN} = \frac{21331 + 33298}{310930 + 21331 + 33298} \times 100 = 14.9\%$$

$$\text{DDT} = \frac{32590}{634247 + 32590} \times 100 = 4.9\%$$

Data File: \\BC\TARGET\chem\ecd3.i\093011A.b\002F0201.D

Date : 30-SEP-2011 13:59

Client ID:

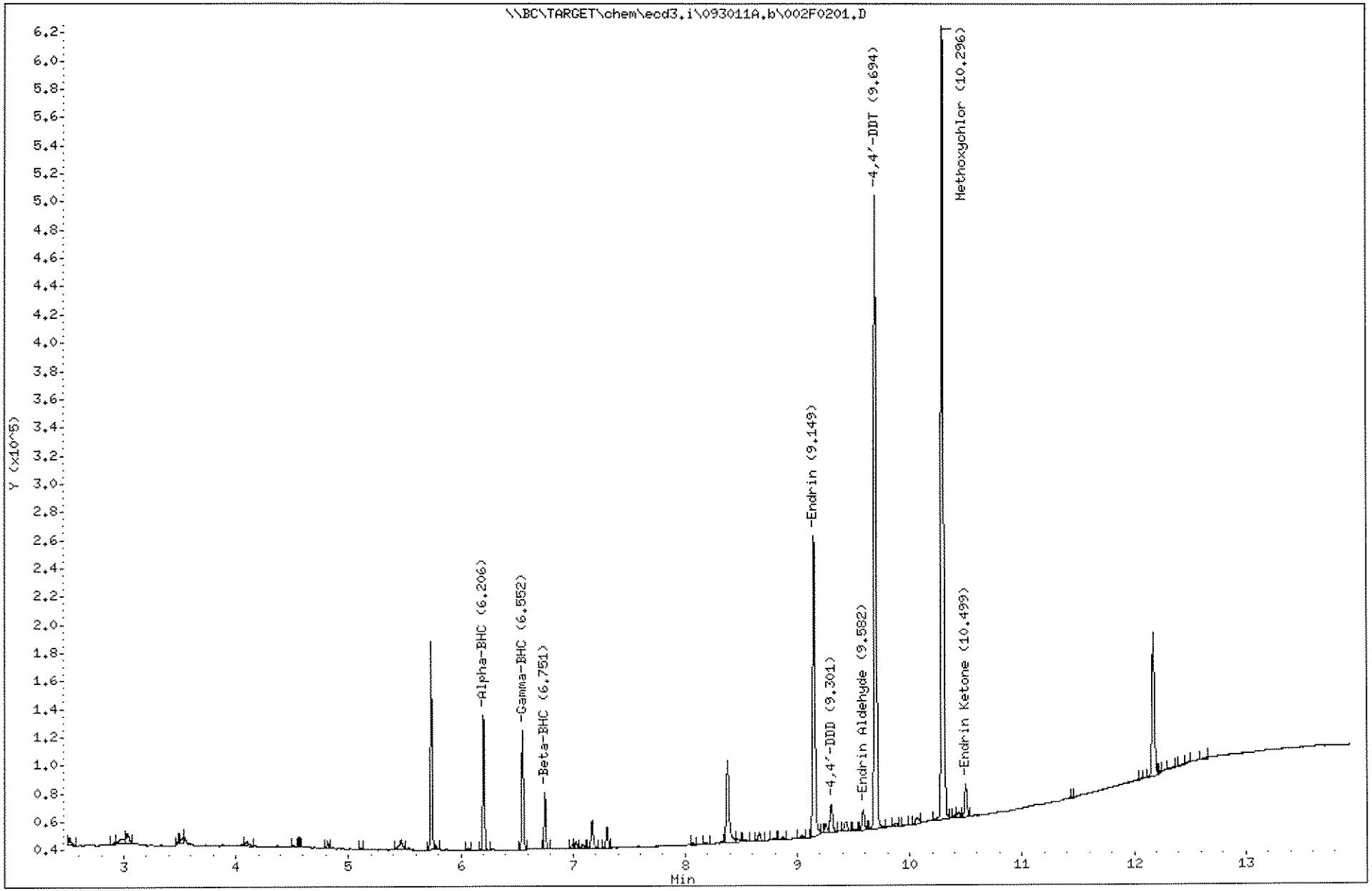
Instrument: ecd3.i

Sample Info: SEQ-PEM1

Operator: EM

Column phase: ZB MR-1

Column diameter: 0.32



1460

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J.H. 10.4.11

Empirical Laboratories, LLC

SW-846 METHODS 8081A/8082

Data file : \\BC\TARGET\chem\ecd3.i\093011A.b\002R0201.D
Lab Smp Id: SEQ-PEM1
Inj Date : 30-SEP-2011 13:59
Operator : EM Inst ID: ecd3.i
Smp Info : SEQ-PEM1
Misc Info : ;;;;;;PEM.sub
Comment :
Method : \\BC\TARGET\chem\ecd3.i\093011A.b\8081_82R.m
Meth Date : 04-Oct-2011 10:43 jeh Quant Type: ESTD
Cal Date : 13-OCT-2010 07:10 Cal File: 016R1601.D
Als bottle: 2
Dil Factor: 1.00000
Integrator: Falcon Compound Sublist: PEM.sub
Target Version: 4.04
Processing Host: NSH-LAPTOP1

Compounds	RT	EXP RT	DLT RT	RESPONSE	CONCENTRATIONS ON-COLUMN (ng/mL)	CONCENTRATIONS FINAL (ng/mL)
3 Alpha-BHC [2C]	5.593	5.594	-0.001	104032	2.08600	2.086
23 Gamma-BHC [2C]	5.929	5.931	-0.002	95604	2.22213	2.222
5 Beta-BHC [2C]	6.218	6.219	-0.001	51429	2.33328	2.333
20 Endrin [2C]	8.226	8.226	0.000	334009	9.87628	9.876
21 Endrin Aldehyde [2C]	8.798	8.799	-0.001	21202	0.76787	0.7679
22 Endrin Ketone [2C]	9.733	9.734	-0.001	37645	1.05204	1.052
14 4,4'-DDT [2C]	8.681	8.679	0.002	645057	23.9163	23.92
12 4,4'-DDD [2C]	8.369	8.368	0.001	35068	1.00519	1.005
27 Methoxychlor [2C]	9.396	9.396	0.000	821413	54.9866	54.99

10/04/11

% BREAKDOWN:

$$\text{ENDRIN} = \frac{21202 + 37645}{334009 + 21202 + 37645} \times 100 = 14.98\%$$

$$\text{DDT} = \frac{35068}{645057 + 35068} \times 100 = 5.2\%$$

Data File: \\BC\TARGET\chem\ecd3.i\093011A.b\002R0201.D

Date : 30-SEP-2011 13:59

Client ID:

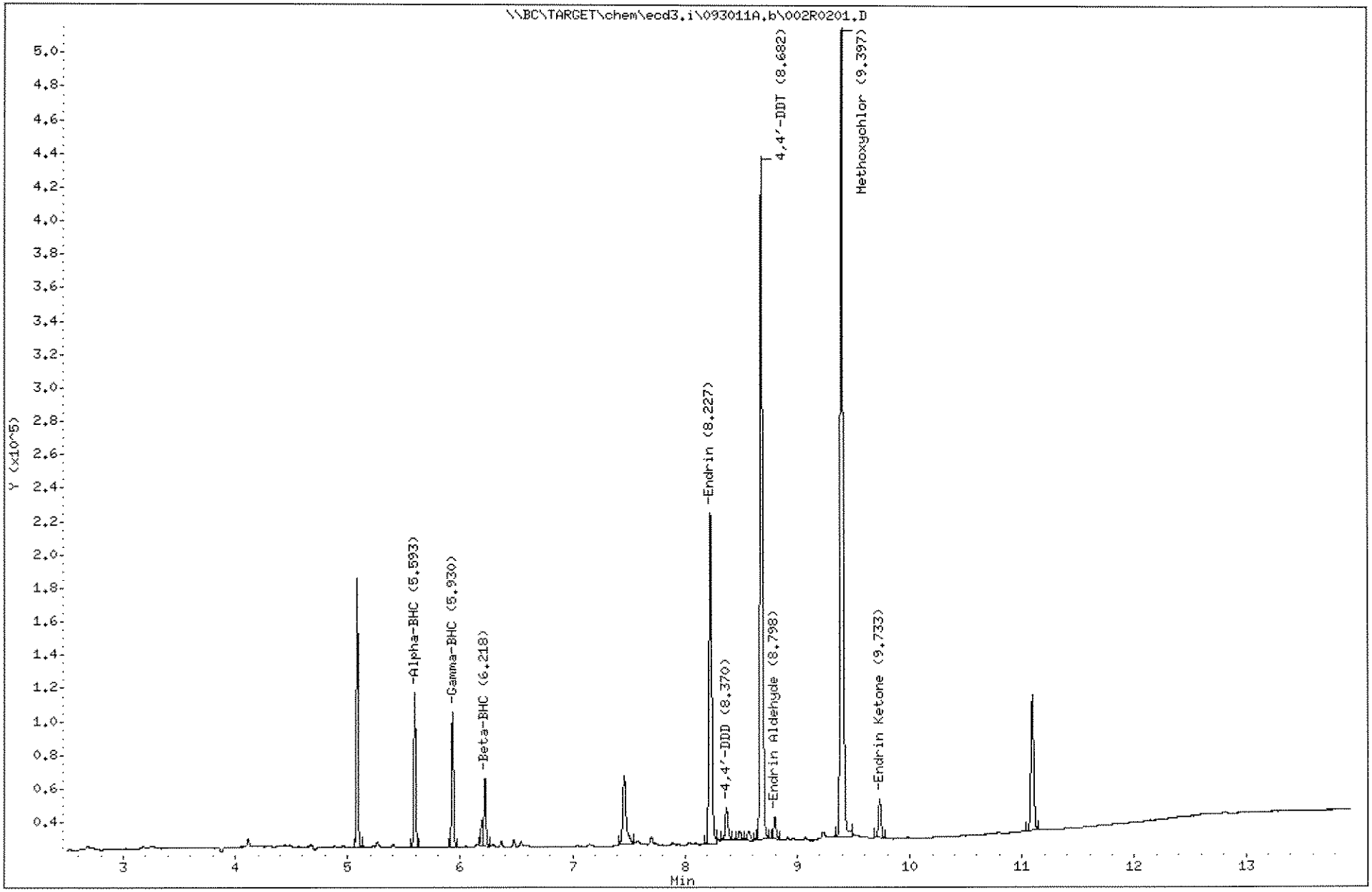
Instrument: ecd3.i

Sample Info: SEQ-PEM1

Operator: EM

Column phase: ZB MR-2

Column diameter: 0.32



1462

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JH. 10.4.11

Empirical Laboratories, LLC

SW-846 METHODS 8081A/8082

Data file : \\BC\TARGET\chem\ecd3.i\093011A.b\003F0301.D
Lab Smp Id: SEQ-CCV1
Inj Date : 30-SEP-2011 14:18
Operator : EM Inst ID: ecd3.i
Smp Info : SEQ-CCV1
Misc Info : ;;;;;;INDABD.sub
Comment :
Method : \\BC\TARGET\chem\ecd3.i\093011A.b\8081_82F.m
Meth Date : 04-Oct-2011 12:07 jeh Quant Type: ESTD
Cal Date : 13-OCT-2010 07:10 Cal File: 016F1601.D
Als bottle: 3 Continuing Calibration Sample
Dil Factor: 1.00000
Integrator: Falcon Compound Sublist: INDABD.sub
Target Version: 4.04
Processing Host: NSH-LAPTOP1

Compounds	RT	EXP RT	DLT RT	RESPONSE	AMOUNTS CAL-AMT (ng/mL)	AMOUNTS ON-COL (ng/mL)
$ 38 TCMX	5.740	5.740	0.000	3791045 X	100.000	100.6
3 Alpha-BHC	6.205	6.205	0.000	6062464	100.000	109.0
23 Gamma-BHC	6.552	6.552	0.000	5262124	100.000	110.7
5 Beta-BHC	6.750	6.750	0.000	2188867	100.000	100.7
15 Delta-BHC	7.028	7.028	0.000	4984179	100.000	113.4
25 Heptachlor	7.193	7.193	0.000	4738120	100.000	114.7
2 Aldrin	7.582	7.582	0.000	5148688	100.000	104.4
26 Heptachlor Epoxide	8.070	8.070	0.000	4627177	100.000	102.6
24 Gamma-Chlordane	8.372	8.372	0.000	4837302	100.000	95.20
4 Alpha-Chlordane	8.467	8.467	0.000	4581571	100.000	102.0
17 Endosulfan I	8.533	8.533	0.000	4317424	100.000	102.6
13 4,4'-DDE	8.660	8.660	0.000	4626732	100.000	103.0
16 Dieldrin	8.865	8.865	0.000	4718619	100.000	104.7
20 Endrin	9.148	9.148	0.000	3379320	100.000	97.15
12 4,4'-DDD	9.300	9.300	0.000	3866981	100.000	105.5
18 Endosulfan II	9.420	9.420	0.000	3891277	100.000	103.9
21 Endrin Aldehyde	9.582	9.582	0.000	3205610	100.000	107.8
14 4,4'-DDT	9.693	9.693	0.000	3432464	100.000	118.3
19 Endosulfan Sulfate	9.877	9.877	0.000	3351320	100.000	112.3
27 Methoxychlor	10.293	10.293	0.000	1734161 *	100.000	109.9
22 Endrin Ketone	10.498	10.498	0.000	4394566	100.000	112.6
$ 39 DCB	12.173	12.173	0.000	3415328	100.000	91.27

10/04/11

Data File: \\BC\TARGET\chem\ecd3.i\093011A.b\003F0301.D

Date : 30-SEP-2011 14:18

Client ID:

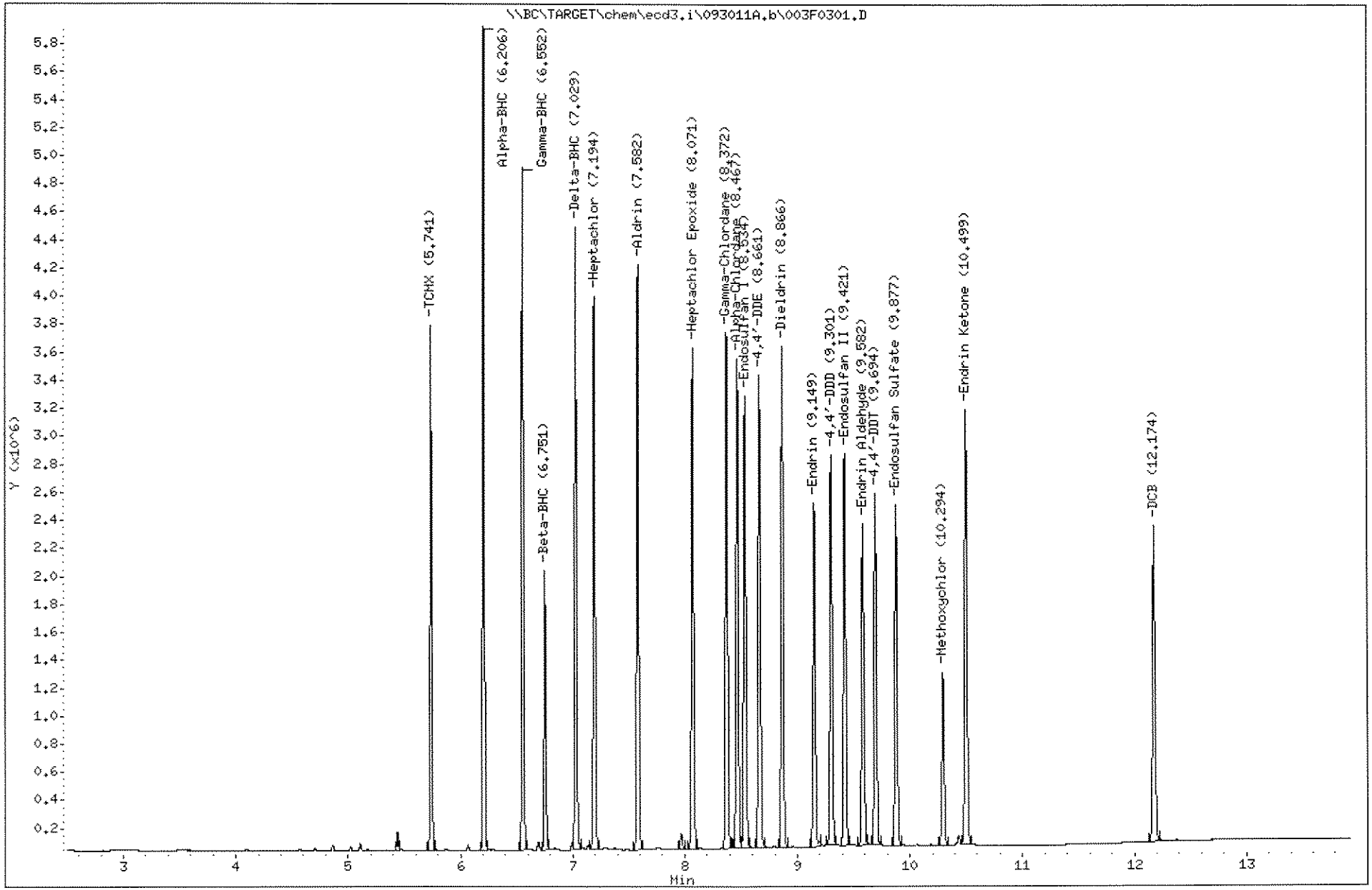
Sample Info: SEQ-CCV1

Column phase: ZB MR-1

Instrument: ecd3.i

Operator: EM

Column diameter: 0.32



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J.H. 10.4.11

Empirical Laboratories, LLC

SW-846 METHODS 8081A/8082

Data file : \\BC\TARGET\chem\ecd3.i\093011A.b\003R0301.D
Lab Smp Id: SEQ-CCV1
Inj Date : 30-SEP-2011 14:18
Operator : EM Inst ID: ecd3.i
Smp Info : SEQ-CCV1
Misc Info : ;;;;;;INDABD.sub
Comment :
Method : \\BC\TARGET\chem\ecd3.i\093011A.b\8081_82R.m
Meth Date : 04-Oct-2011 10:24 jeh Quant Type: ESTD
Cal Date : 13-OCT-2010 07:10 Cal File: 016R1601.D
Als bottle: 3 Continuing Calibration Sample
Dil Factor: 1.00000
Integrator: Falcon Compound Sublist: INDABD.sub
Target Version: 4.04
Processing Host: NSH-LAPTOP1

Compounds	RT	EXP RT	DLT RT	RESPONSE		AMOUNTS CAL-AMT (ng/mL)	AMOUNTS ON-COL (ng/mL)
$ 38 TCMX [2C]	5.083	5.083	0.000	3580400	K	100.000	97.11
3 Alpha-BHC [2C]	5.594	5.594	0.000	5179790		100.000	103.9
23 Gamma-BHC [2C]	5.931	5.931	0.000	4559217		100.000	106.0
5 Beta-BHC [2C]	6.219	6.219	0.000	2145606		100.000	97.34
25 Heptachlor [2C]	6.289	6.289	0.000	3990668		100.000	113.4
15 Delta-BHC [2C]	6.478	6.478	0.000	4368918		100.000	109.0
2 Aldrin [2C]	6.598	6.598	0.000	4508638		100.000	99.95
26 Heptachlor Epoxide [2C]	7.146	7.146	0.000	4124136		100.000	98.14
24 Gamma-Chlordane [2C]	7.428	7.428	0.000	4316037		100.000	93.89
4 Alpha-Chlordane [2C]	7.503	7.503	0.000	4135672		100.000	95.33
17 Endosulfan I [2C]	7.579	7.579	0.000	3879816		100.000	98.04
13 4,4'-DDE [2C]	7.698	7.698	0.000	4052199		100.000	100.5
16 Dieldrin [2C]	7.889	7.889	0.000	4234204		100.000	100.4
20 Endrin [2C]	8.226	8.226	0.000	3161922		100.000	93.49
12 4,4'-DDD [2C]	8.368	8.368	0.000	3576157		100.000	102.5
18 Endosulfan II [2C]	8.579	8.579	0.000	3482357		100.000	102.8
14 4,4'-DDT [2C]	8.679	8.679	0.000	3223540		100.000	119.5
21 Endrin Aldehyde [2C]	8.799	8.799	0.000	2991277		100.000	108.3
19 Endosulfan Sulfate [2C]	9.076	9.076	0.000	3016664		100.000	114.4
27 Methoxychlor [2C]	9.396	9.396	0.000	1619548	*	100.000	108.4
22 Endrin Ketone [2C]	9.734	9.734	0.000	3931673		100.000	109.9
$ 39 DCB [2C]	11.091	11.091	0.000	2824670		100.000	107.3

10/04/11

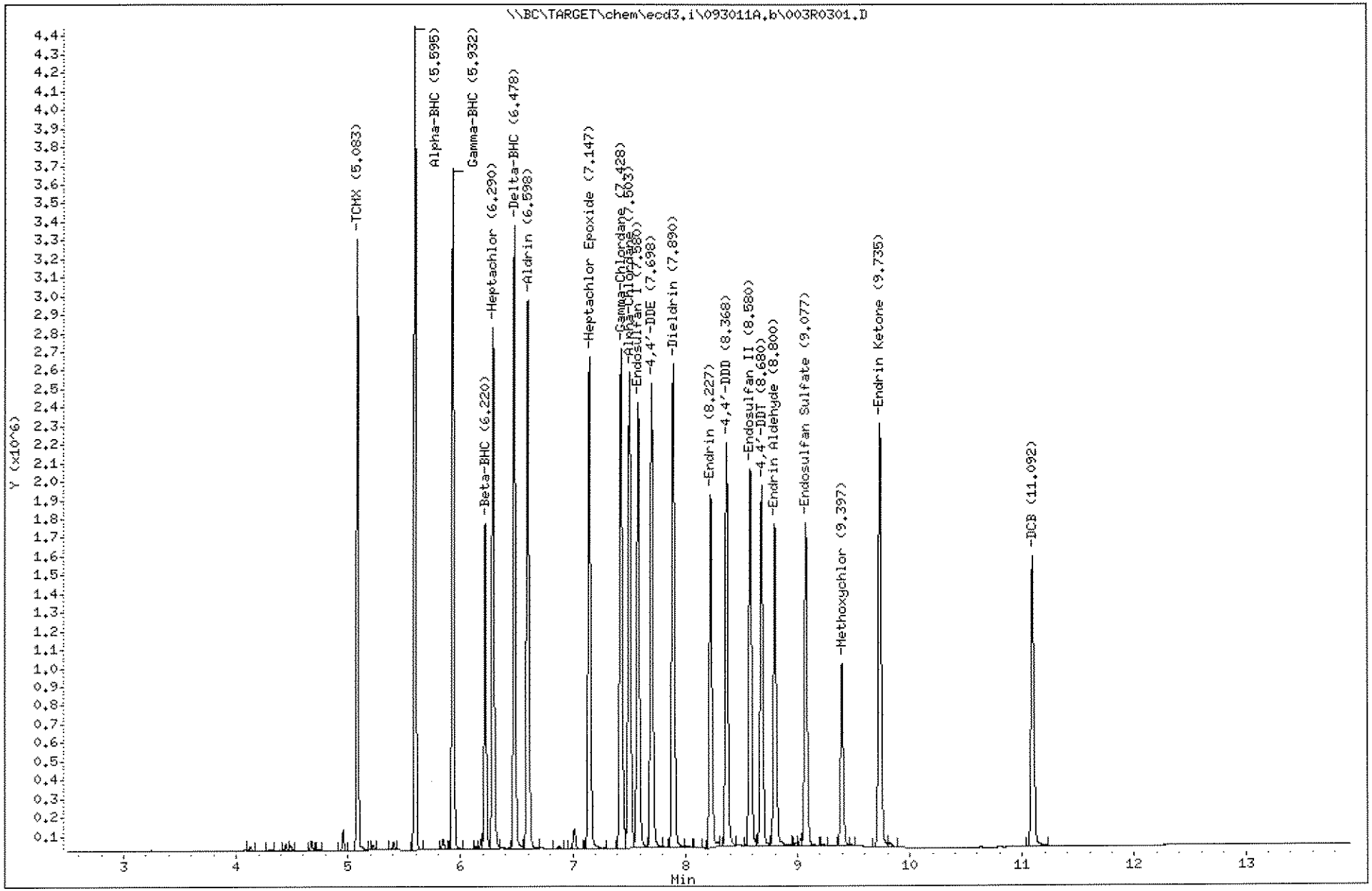
Data File: \\BC\TARGET\chem\ecd3.i\093011A.b\003R0301.D
Date : 30-SEP-2011 14:18
Client ID:
Sample Info: SEQ-CCV1

Instrument: ecd3.i

Operator: EM

Column phase: ZB MR-2

Column diameter: 0.32



1466

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J.H. 10.4.11

Empirical Laboratories, LLC

SW-846 METHODS 8081A/8082

Data file : \\BC\TARGET\chem\ecd3.i\093011A.b\022F2201.D
Lab Smp Id: SEQ-CCV7
Inj Date : 30-SEP-2011 20:15
Operator : EM Inst ID: ecd3.i
Smp Info : SEQ-CCV7
Misc Info : ;;;;;;INDABD.sub
Comment :
Method : \\BC\TARGET\chem\ecd3.i\093011A.b\8081_82F.m
Meth Date : 04-Oct-2011 10:35 jeh Quant Type: ESTD
Cal Date : 13-OCT-2010 07:10 Cal File: 016F1601.D
Als bottle: 22 Continuing Calibration Sample
Dil Factor: 1.00000
Integrator: Falcon Compound Sublist: INDABD.sub
Target Version: 4.04
Processing Host: NSH-LAPTOP1

Compounds	RT	EXP RT	DLT RT	RESPONSE		AMOUNTS CAL-AMT (ng/mL)	AMOUNTS ON-COL (ng/mL)
$ 38 TCMX	5.742	5.740	0.002	3927988	✘	100.000	104.3
3 Alpha-BHC	6.207	6.205	0.002	6413246		100.000	115.3
23 Gamma-BHC	6.554	6.552	0.002	5615703		100.000	118.2
5 Beta-BHC	6.752	6.750	0.002	2310605		100.000	106.3
15 Delta-BHC	7.031	7.028	0.003	5459376		100.000	124.2
25 Heptachlor	7.196	7.193	0.003	5126641		100.000	124.1
2 Aldrin	7.584	7.582	0.002	5250647		100.000	106.5
26 Heptachlor Epoxide	8.072	8.070	0.002	4749749		100.000	105.3
24 Gamma-Chlordane	8.374	8.372	0.002	4993950		100.000	98.28
4 Alpha-Chlordane	8.469	8.467	0.002	4616044		100.000	102.7
17 Endosulfan I	8.534	8.533	0.001	4377497		100.000	104.1
13 4,4'-DDE	8.662	8.660	0.002	4674587		100.000	104.0
16 Dieldrin	8.867	8.865	0.002	4770077		100.000	105.8
20 Endrin	9.152	9.148	0.004	3718634		100.000	106.9
12 4,4'-DDD	9.302	9.300	0.002	4247790		100.000	115.9
18 Endosulfan II	9.422	9.420	0.002	3989917		100.000	106.6
21 Endrin Aldehyde	9.584	9.582	0.002	3159774		100.000	106.3
14 4,4'-DDT	9.696	9.693	0.003	3245581		100.000	111.9
19 Endosulfan Sulfate	9.879	9.877	0.002	3633695		100.000	121.8
27 Methoxychlor	10.296	10.293	0.003	1735597		100.000	110.0
22 Endrin Ketone	10.501	10.498	0.003	4385475	*	100.000	112.4
$ 39 DCB	12.176	12.173	0.003	3137485		100.000	83.84

10/04/11

Data File: \\BC\TARGET\chem\ecd3.i\093011A.b\022F2201.D

Date : 30-SEP-2011 20:15

Client ID:

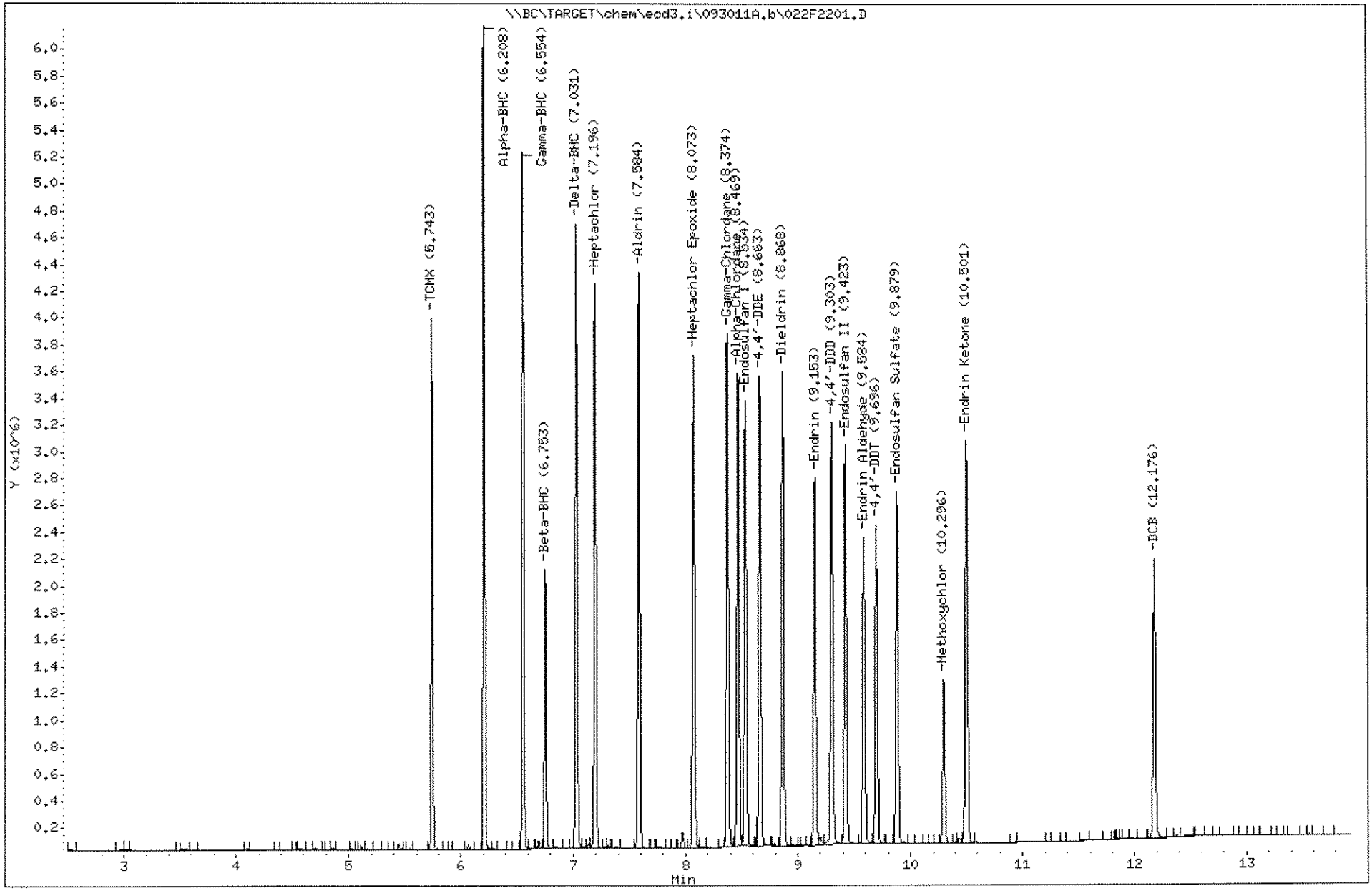
Instrument: ecd3.i

Sample Info: SEQ-CCV7

Operator: EM

Column phase: ZB MR-1

Column diameter: 0.32



1468

1109191

JH. 10.4.11

Empirical Laboratories, LLC

SW-846 METHODS 8081A/8082

Data file : \\BC\TARGET\chem\ecd3.i\093011A.b\022R2201.D
Lab Smp Id: SEQ-CCV7
Inj Date : 30-SEP-2011 20:15
Operator : EM Inst ID: ecd3.i
Smp Info : SEQ-CCV7
Misc Info : ;;;;;;INDABD.sub
Comment :
Method : \\BC\TARGET\chem\ecd3.i\093011A.b\8081_82R.m
Meth Date : 04-Oct-2011 10:35 jeh Quant Type: ESTD
Cal Date : 13-OCT-2010 07:10 Cal File: 016R1601.D
Als bottle: 22 Continuing Calibration Sample
Dil Factor: 1.00000
Integrator: Falcon Compound Sublist: INDABD.sub
Target Version: 4.04
Processing Host: NSH-LAPTOP1

Compounds	RT	EXP RT	DLT RT	RESPONSE	AMOUNTS CAL-AMT (ng/mL)	AMOUNTS ON-COL (ng/mL)
$ 38 TCMX [2C]	5.085	5.083	0.002	2951280	100.000	80.05
3 Alpha-BHC [2C]	5.597	5.594	0.003	4335150	100.000	86.93
23 Gamma-BHC [2C]	5.933	5.931	0.002	3866685	100.000	89.87
5 Beta-BHC [2C]	6.222	6.219	0.003	1823126	100.000	82.71
25 Heptachlor [2C]	6.292	6.289	0.003	3453435	100.000	98.17
15 Delta-BHC [2C]	6.480	6.478	0.002	3797183	100.000	94.70
2 Aldrin [2C]	6.600	6.598	0.002	3722384	100.000	82.52
26 Heptachlor Epoxide [2C]	7.148	7.146	0.002	3402982	100.000	80.98
24 Gamma-Chlordane [2C]	7.430	7.428	0.002	3591074	100.000	78.12
4 Alpha-Chlordane [2C]	7.505	7.503	0.002	3381616	100.000	77.95
17 Endosulfan I [2C]	7.582	7.579	0.003	3184518	100.000	80.47
13 4,4'-DDE [2C]	7.700	7.698	0.002	3305973	100.000	81.99
16 Dieldrin [2C]	7.892	7.889	0.003	3467993	100.000	82.25
20 Endrin [2C]	8.228	8.226	0.002	2840786	100.000	84.00
12 4,4'-DDD [2C]	8.370	8.368	0.002	3089347	100.000	88.55
18 Endosulfan II [2C]	8.582	8.579	0.003	2850247	100.000	84.12
14 4,4'-DDT [2C]	8.683	8.679	0.004	2461377	100.000	91.26
21 Endrin Aldehyde [2C]	8.802	8.799	0.003	2351664	100.000	85.17
19 Endosulfan Sulfate [2C]	9.077	9.076	0.001	2643609	100.000	100.3
27 Methoxychlor [2C]	9.398	9.396	0.002	1327520	100.000	88.87
22 Endrin Ketone [2C]	9.737	9.734	0.003	3127386 *	100.000	87.40
$ 39 DCB [2C]	11.092	11.091	0.001	2049792	100.000	X 77.49

10/04/11

Data File: \\BC\TARGET\chem\ecd3.i\093011A.b\022R2201.D

Date : 30-SEP-2011 20:15

Client ID:

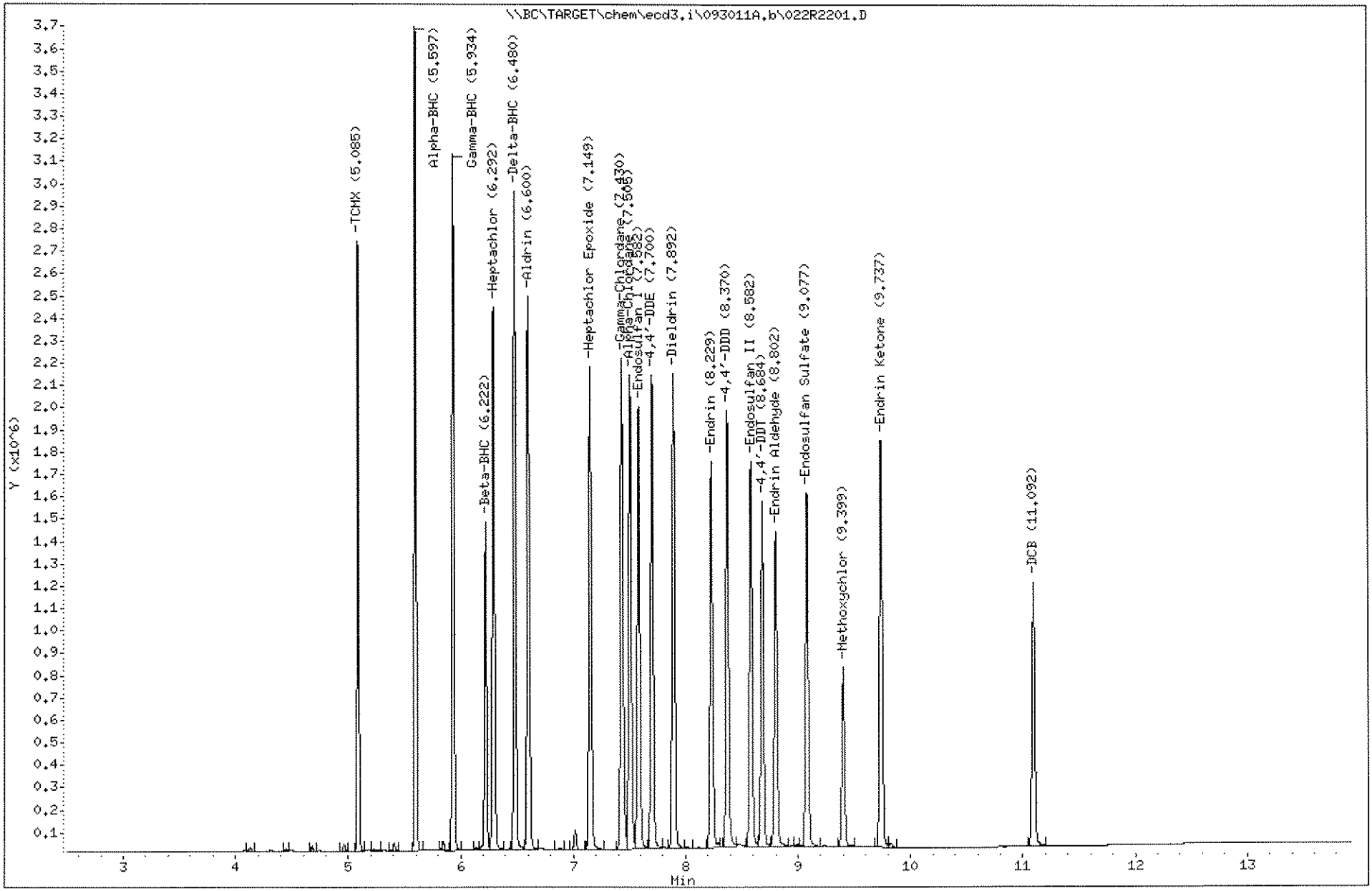
Instrument: ecd3.i

Sample Info: SEQ-CCV7

Operator: EM

Column phase: ZB MR-2

Column diameter: 0.32



1470

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J.H. 10.4.11

Empirical Laboratories, LLC

SW-846 METHODS 8081A/8082

Data file : \\BC\TARGET\chem\ecd3.i\093011A.b\025F2501.D
Lab Smp Id: SEQ-CCVA
Inj Date : 30-SEP-2011 21:11
Operator : EM Inst ID: ecd3.i
Smp Info : SEQ-CCVA
Misc Info : ;;;;;;AR1660.sub
Comment :
Method : \\BC\TARGET\chem\ecd3.i\093011A.b\8081_82F.m
Meth Date : 04-Oct-2011 10:37 jeh Quant Type: ESTD
Cal Date : 13-OCT-2010 07:10 Cal File: 016F1601.D
Als bottle: 25 Continuing Calibration Sample
Dil Factor: 1.00000
Integrator: Falcon Compound Sublist: AR1660.sub
Target Version: 4.04 Sample Matrix: None
Processing Host: NSH-LAPTOP1

RT	EXP RT	DLT RT	RESPONSE	AMOUNTS CAL-AMT (ng/mL)	AMOUNTS ON-COL (ng/mL)	TARGET RANGE	RATIO
29 PCB-1016					CAS #: 12674-11-2		
7.066	7.066	(0.000)	2058173	1000.00	1477	80.00- 120.00	100.00
6.520	6.521	(-0.001)	921600	1000.00	1373	35.82- 53.73	44.78
6.733	6.732	(0.001)	917360	1000.00	1393	35.66- 53.49	44.57
7.041	7.041	(0.000)	1404552	1000.00	1465	54.59- 81.89	68.24
7.135	7.136	(-0.001)	1164724			45.27- 67.91	56.59
7.248	7.249	(-0.001)	930128	1000.00	1421	36.15- 54.23	45.19
		Average of Peak Amounts =			1426		
35 PCB-1260					CAS #: 11096-82-5		
10.446	10.447	(-0.001)	4510640	1000.00	1256	80.00- 120.00	100.00
8.980	8.979	(0.001)	1908346			33.85- 50.77	42.31
9.310	9.311	(-0.001)	2456784	1000.00	1274	43.57- 65.36	54.47
9.658	9.661	(-0.003)	2721219	1000.00	1302	48.26- 72.39	60.33
9.765	9.764	(0.001)	* 1895336	1000.00	1276	33.62- 50.42	42.02
10.046	10.046	(0.000)	1939296			34.40- 51.59	42.99
10.806	10.807	(-0.001)	2650259			47.00- 70.51	58.76
11.555	11.556	(-0.001)	1084372	1000.00	1092	19.23- 28.85	24.04
		Average of Peak Amounts =			1240		

10/04/11

Data File: \\BC\TARGET\chem\ecd3.i\093011A.b\025F2501.D

Date : 30-SEP-2011 21:11

Client ID:

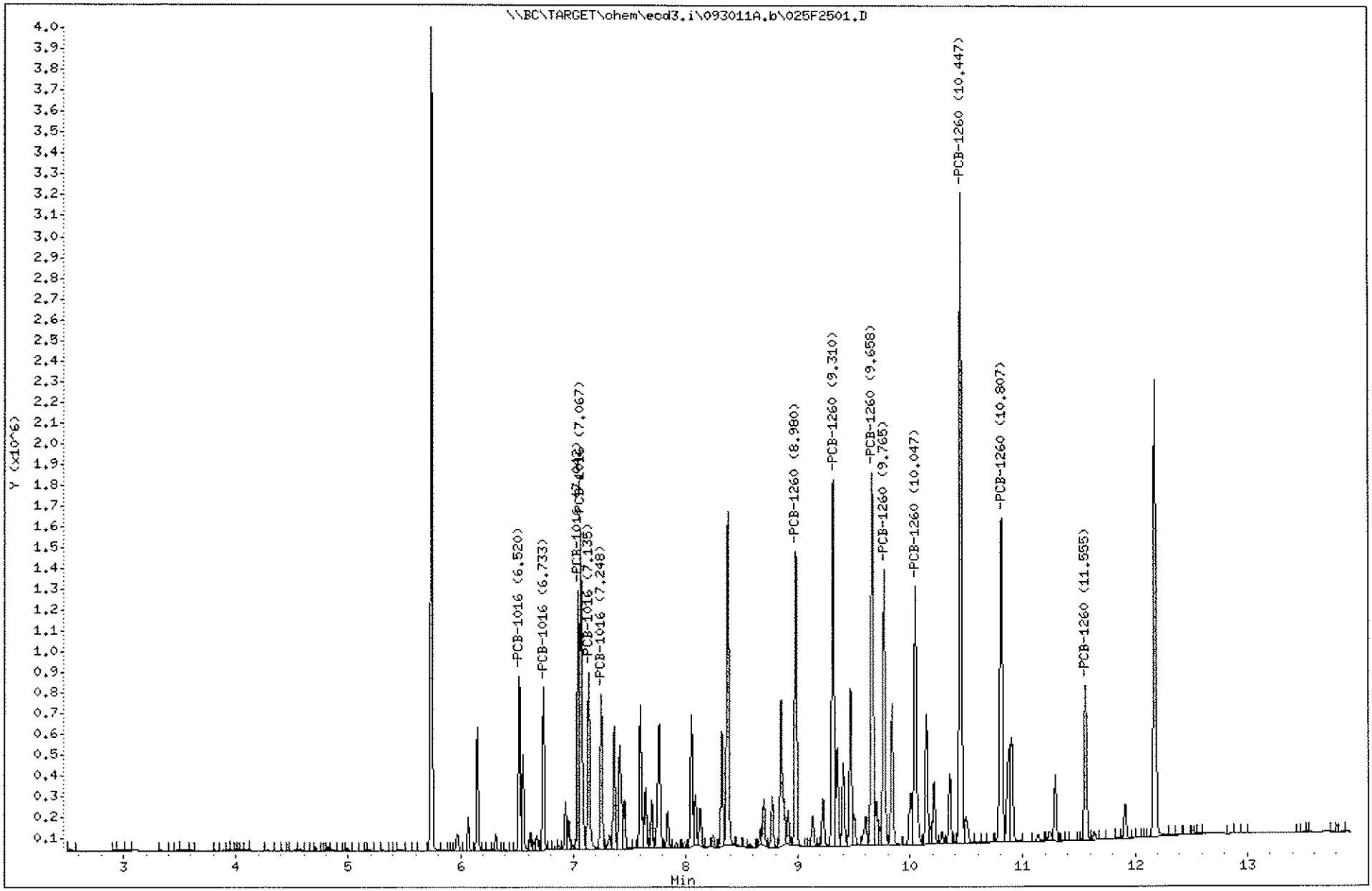
Instrument: ecd3.i

Sample Info: SEQ-CCVA

Operator: EM

Column phase: ZB MR-1

Column diameter: 0.32



1472

1109191

10.4.11

Empirical Laboratories, LLC

SW-846 METHODS 8081A/8082

Data file : \\BC\TARGET\chem\ecd3.i\093011A.b\025R2501.D
Lab Smp Id: SEQ-CCVA
Inj Date : 30-SEP-2011 21:11
Operator : EM Inst ID: ecd3.i
Smp Info : SEQ-CCVA
Misc Info : ;;;;;;AR1660.sub
Comment :
Method : \\BC\TARGET\chem\ecd3.i\093011A.b\8081_82R.m
Meth Date : 04-Oct-2011 10:37 jeh Quant Type: ESTD
Cal Date : 13-OCT-2010 07:10 Cal File: 016R1601.D
Als bottle: 25 Continuing Calibration Sample
Dil Factor: 1.00000
Integrator: Falcon Compound Sublist: AR1660.sub
Target Version: 4.04 Sample Matrix: None
Processing Host: NSH-LAPTOP1

RT	EXP RT	DLT RT	RESPONSE	AMOUNTS CAL-AMT (ng/mL)	AMOUNTS ON-COL (ng/mL)	TARGET RANGE	RATIO
29 PCB-1016 [2C]					CAS #: 12674-11-2		
6.294	6.293	(0.001)	1488244	1000.00	1422	80.00- 120.00	100.00
5.496	5.497	(-0.001)	544479			29.27- 43.90	36.59
6.026	6.025	(0.001)	763959	1000.00	1332	41.07- 61.60	51.33
6.274	6.275	(-0.001)	1142224	1000.00	1382	61.40- 92.10	76.75
6.491	6.492	(-0.001)	778237	1000.00	1379	41.83- 62.75	52.29
6.542	6.543	(-0.001)	783079	1000.00	1300	42.09- 63.14	52.62
		Average of Peak Amounts =			1363		
35 PCB-1260 [2C]					CAS #: 11096-82-5		
9.369	9.368	(0.001)	3282239	1000.00	1257	80.00- 120.00	100.00
8.269	8.268	(0.001)	1918774	1000.00	1261	46.77- 70.15	58.46
8.456	8.455	(0.001)	1769383	1000.00	1251	43.13- 64.69	53.91
8.676	8.677	(-0.001)	* 1995493	1000.00	1275	48.64- 72.96	60.80
8.727	8.728	(-0.001)	1624745			39.60- 59.40	49.50
9.052	9.053	(-0.001)	1443812	1000.00	1256	35.19- 52.79	43.99
9.809	9.810	(-0.001)	2275514			55.46- 83.19	69.33
10.457	10.458	(-0.001)	746133			18.19- 27.28	22.73
		Average of Peak Amounts =			1260		

10/04/11

Data File: \\BC\TARGET\chem\ecd3.i\093011A.b\025R2501.D

Date : 30-SEP-2011 21:11

Client ID:

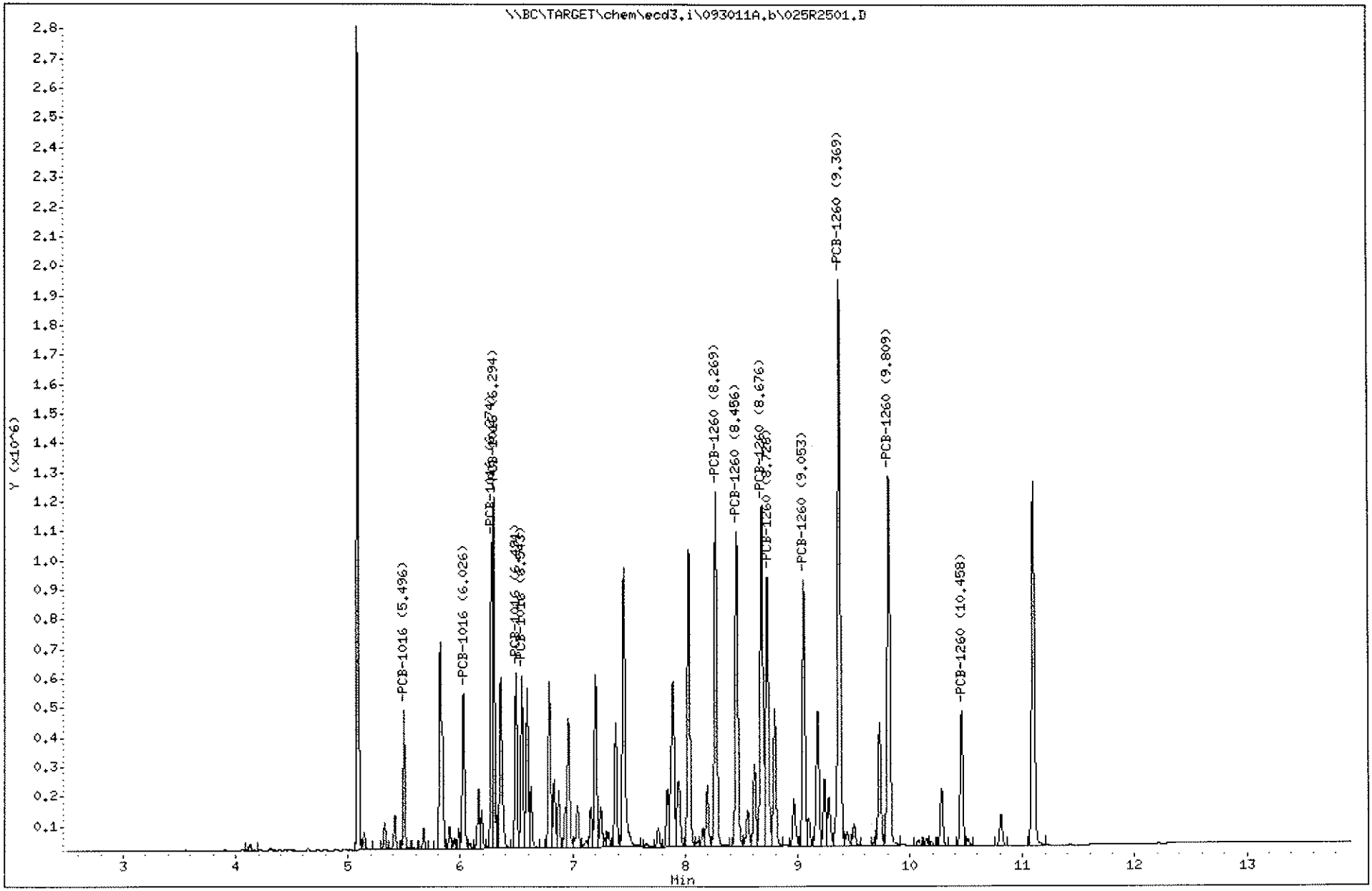
Sample Info: SEQ-CCVA

Column phase: ZB MR-2

Instrument: ecd3.i

Operator: EM

Column diameter: 0.32



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1109191

J.H. 10.4.11

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Sample #1 : \\BC\TARGET\chem\ecd3.i\093011A.b\032F3801.D
Sample #2 : \\BC\TARGET\chem\ecd3.i\093011A.b\032R3801.D
Inj Date : 01-OCT-2011 01:15
Sample Info: 1109191-10
Misc Info : ;;;;;;tcl2.sub
Cal Date : 04-OCT-2011 10:43
Operator : EM
Inst ID : ecd3.i
Dil Factor : 1.000000

Method #1 : \\BC\TARGET\chem\ecd3.i\093011A.b\8081_82F.m
Method #2 : \\BC\TARGET\chem\ecd3.i\093011A.b\8081_82R.m
Sub List #1 : tcl2.sub
Sub List #2 : tcl2.sub
Col #1 Phase : ZB MR-1
Col #2 Phase : ZB MR-2

Compound	RT#1	RT#2	Resp#1	Resp#2	Conc#1	Conc#2	Target Range	Ratio
TCMX	5.740	5.084	1127945	917183	29.94	24.88		100.00(R)
DCB	12.175	11.091	552104	378368	14.75	13.25		100.00(R)

QC Flag Legend

R - Spike/Surrogate failed recovery limits.

10/04/11

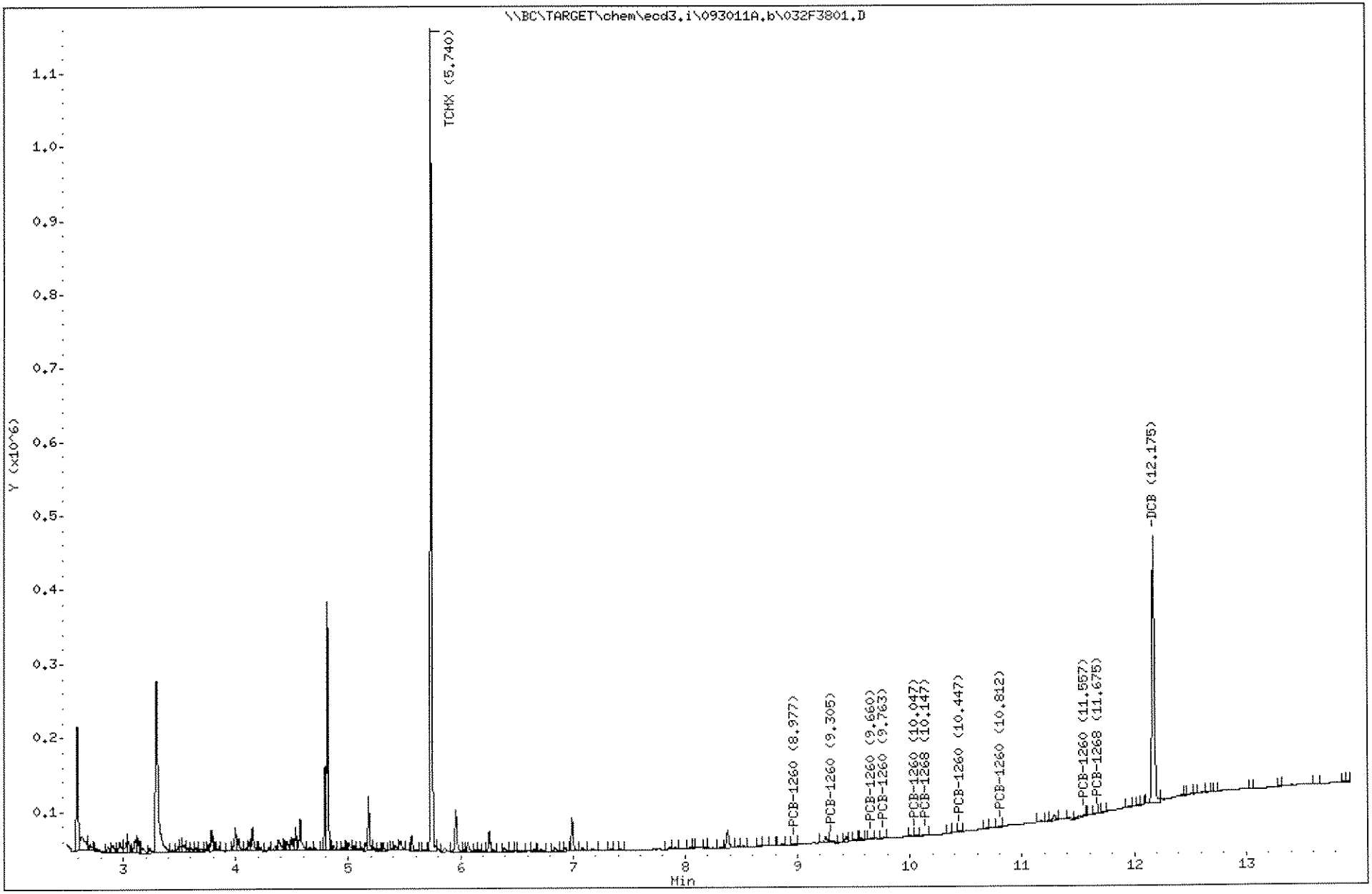
Data File: \\BC\TARGET\chem\ecd3.i\093011A.b\032F3801.D
Date : 01-OCT-2011 01:15
Client ID: FLC-4-RB01-092211
Sample Info: 1109191-10

Instrument: ecd3.i

Operator: EM

Column phase: ZB MR-1

Column diameter: 0.32



1476

1109191

Data File: \\BC\TARGET\chem\ecd3.i\093011A.b\032R3801.D

Date : 01-OCT-2011 01:15

Client ID: FLC-4-RB01-092211

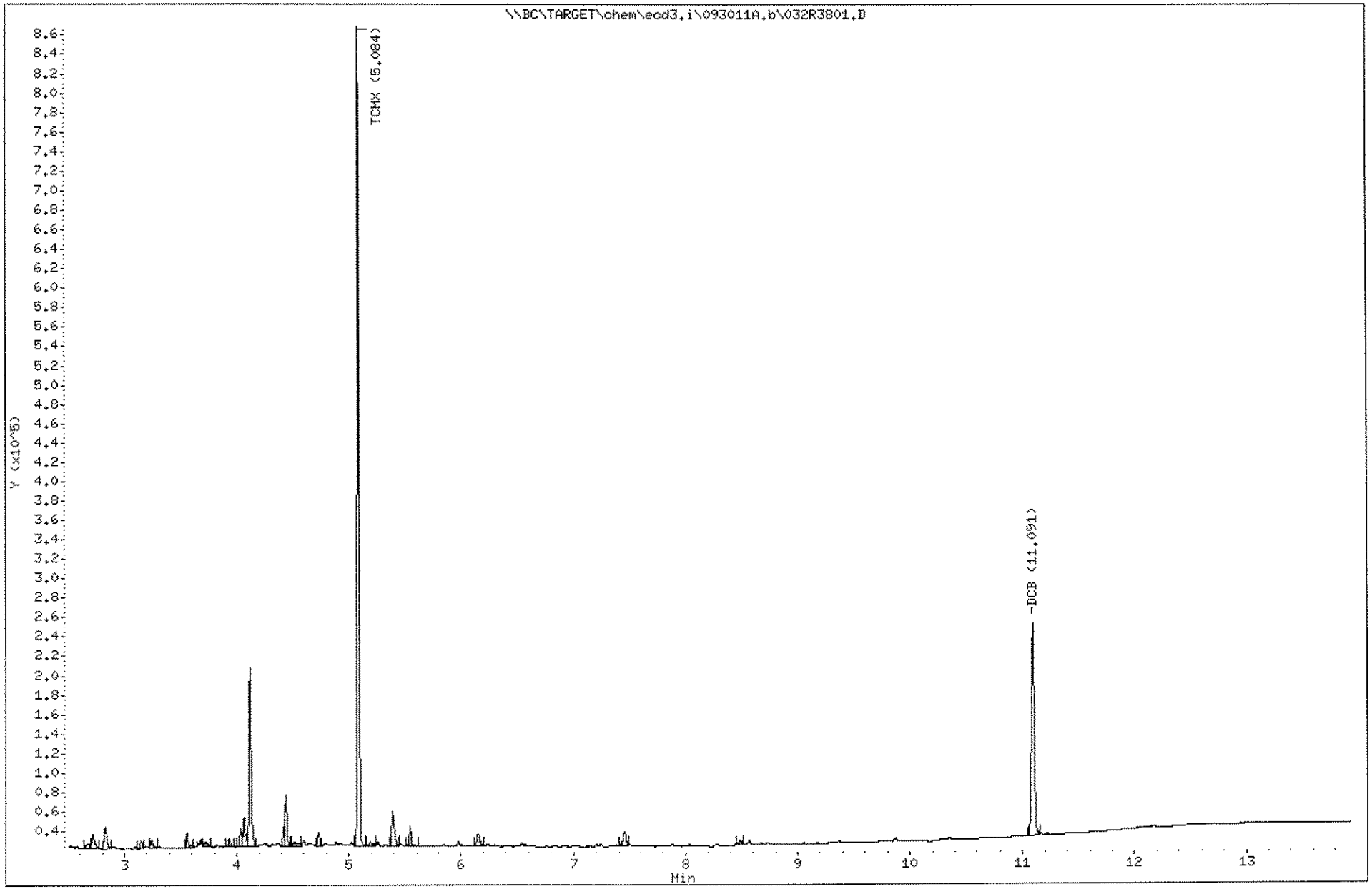
Instrument: ecd3.i

Sample Info: 1109191-10

Operator: EM

Column phase: ZB MR-2

Column diameter: 0.32



1477

1109191

J.H. 10.4.11

Empirical Laboratories, LLC

SW-846 METHODS 8081A/8082

Data file : \\BC\TARGET\chem\ecd3.i\093011A.b\039F4501.D
Lab Smp Id: SEQ-CCVD
Inj Date : 01-OCT-2011 03:27
Operator : EM Inst ID: ecd3.i
Smp Info : SEQ-CCVD
Misc Info : ;;;;;;INDABD.sub
Comment :
Method : \\BC\TARGET\chem\ecd3.i\093011A.b\8081_82F.m
Meth Date : 04-Oct-2011 10:39 jeh Quant Type: ESTD
Cal Date : 13-OCT-2010 07:10 Cal File: 016F1601.D
Als bottle: 39 Continuing Calibration Sample
Dil Factor: 1.00000
Integrator: Falcon Compound Sublist: INDABD.sub
Target Version: 4.04
Processing Host: NSH-LAPTOP1

Compounds	RT	EXP RT	DLT RT	RESPONSE		AMOUNTS CAL-AMT (ng/mL)	AMOUNTS ON-COL (ng/mL)
$ 38 TCMX	5.741	5.740	0.001	4024722		100.000	106.8
3 Alpha-BHC	6.206	6.205	0.001	6586826		100.000	118.5
23 Gamma-BHC	6.553	6.552	0.001	5766226		100.000	121.3
5 Beta-BHC	6.751	6.750	0.001	2389429		100.000	110.0
15 Delta-BHC	7.030	7.028	0.002	5676584		100.000	129.1
25 Heptachlor	7.195	7.193	0.002	5233224		100.000	126.7
2 Aldrin	7.583	7.582	0.001	5498594		100.000	111.5
26 Heptachlor Epoxide	8.071	8.070	0.001	4984699		100.000	110.5
24 Gamma-Chlordane	8.373	8.372	0.001	5348226		100.000	105.2
4 Alpha-Chlordane	8.468	8.467	0.001	4887642		100.000	108.8
17 Endosulfan I	8.535	8.533	0.002	4622222		100.000	109.9
13 4,4'-DDE	8.661	8.660	0.001	4971766		100.000	110.7
16 Dieldrin	8.865	8.865	0.000	5059606		100.000	112.3
20 Endrin	9.151	9.148	0.003	3853209		100.000	110.8
12 4,4'-DDD	9.301	9.300	0.001	4899382		100.000	133.6
18 Endosulfan II	9.421	9.420	0.001	4267218		100.000	114.0
21 Endrin Aldehyde	9.583	9.582	0.001	3399931		100.000	114.4
14 4,4'-DDT	9.695	9.693	0.002	2713933		100.000	93.57
19 Endosulfan Sulfate	9.878	9.877	0.001	3911403		100.000	131.1
27 Methoxychlor	10.293	10.293	0.000	1586480		100.000	100.5
22 Endrin Ketone	10.500	10.498	0.002	4816290		100.000	123.4
$ 39 DCB	12.175	12.173	0.002	3538483	*	100.000	94.56

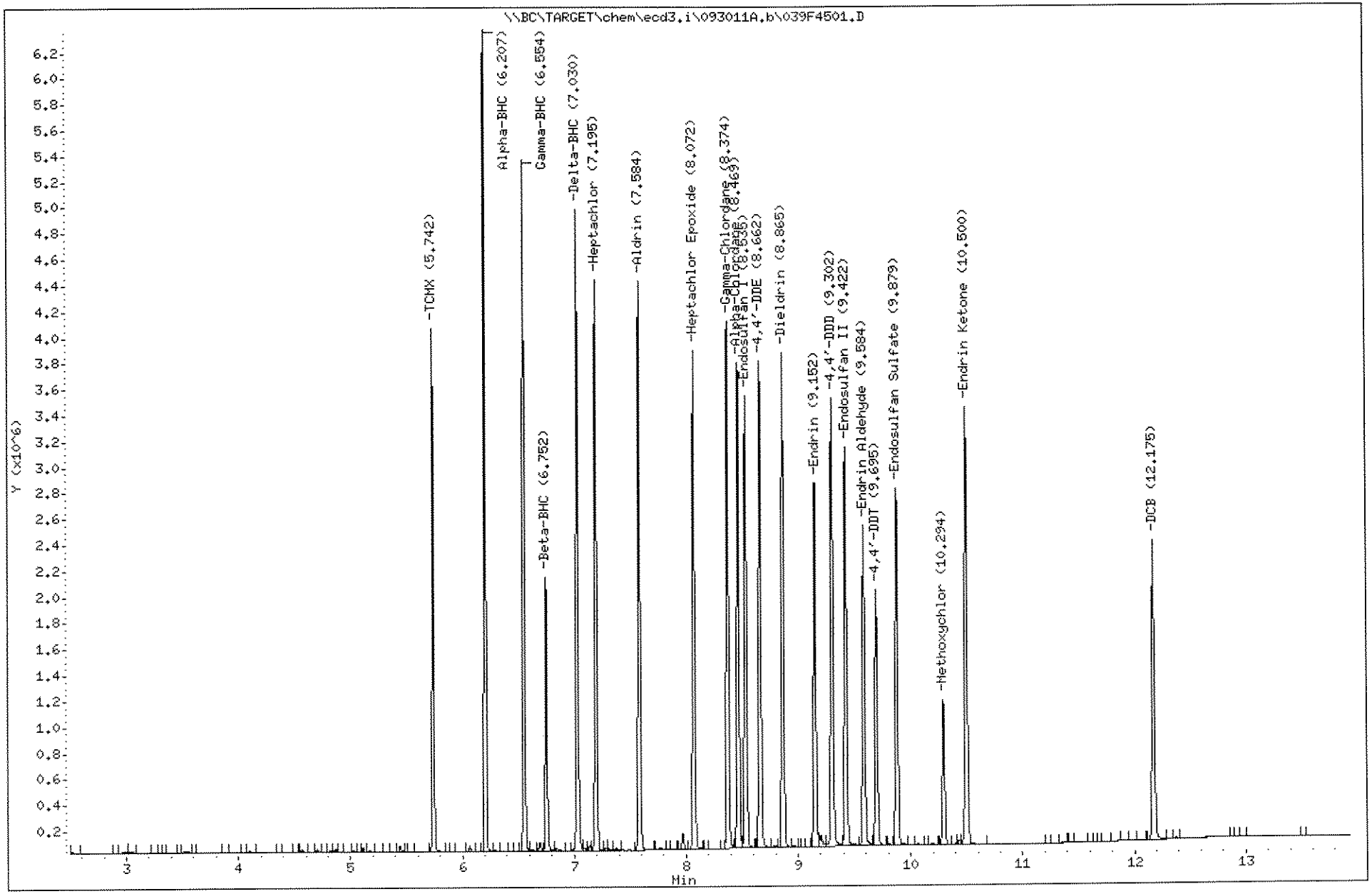
10/04/11

Data File: \\BC\TARGET\chem\ecd3.i\093011A.b\039F4501.D
Date : 01-OCT-2011 03:27
Client ID:
Sample Info: SEQ-CCVD

Instrument: ecd3.i

Operator: EM
Column diameter: 0.32

Column phase: ZB MR-1



1479

1109191

J.H. 10.4.11

Empirical Laboratories, LLC

SW-846 METHODS 8081A/8082

Data file : \\BC\TARGET\chem\ecd3.i\093011A.b\039R4501.D
Lab Smp Id: SEQ-CCVD
Inj Date : 01-OCT-2011 03:27
Operator : EM Inst ID: ecd3.i
Smp Info : SEQ-CCVD
Misc Info : ;;;;;;INDABD.sub
Comment :
Method : \\BC\TARGET\chem\ecd3.i\093011A.b\8081_82R.m
Meth Date : 04-Oct-2011 10:39 jeh Quant Type: ESTD
Cal Date : 13-OCT-2010 07:10 Cal File: 016R1601.D
Als bottle: 39 Continuing Calibration Sample
Dil Factor: 1.00000
Integrator: Falcon Compound Sublist: INDABD.sub
Target Version: 4.04
Processing Host: NSH-LAPTOP1

Compounds	RT	EXP RT	DLT RT	RESPONSE		AMOUNTS CAL-AMT (ng/mL)	AMOUNTS ON-COL (ng/mL)
$ 38 TCMX [2C]	5.084	5.083	0.001	3013337		100.000	81.73
3 Alpha-BHC [2C]	5.596	5.594	0.002	4420632		100.000	88.64
23 Gamma-BHC [2C]	5.932	5.931	0.001	3937578		100.000	91.52
5 Beta-BHC [2C]	6.221	6.219	0.002	1868883		100.000	84.79
25 Heptachlor [2C]	6.291	6.289	0.002	3472625		100.000	98.72
15 Delta-BHC [2C]	6.479	6.478	0.001	3915966		100.000	97.67
2 Aldrin [2C]	6.599	6.598	0.001	3839046		100.000	85.10
26 Heptachlor Epoxide [2C]	7.147	7.146	0.001	3545652		100.000	84.38
24 Gamma-Chlordane [2C]	7.429	7.428	0.001	3784827		100.000	82.33
4 Alpha-Chlordane [2C]	7.504	7.503	0.001	3549395		100.000	81.82
17 Endosulfan I [2C]	7.581	7.579	0.002	3340376		100.000	84.41
13 4,4'-DDE [2C]	7.701	7.698	0.003	3455350		100.000	85.70
16 Dieldrin [2C]	7.891	7.889	0.002	3644457		100.000	86.44
20 Endrin [2C]	8.227	8.226	0.001	2932785		100.000	86.72
12 4,4'-DDD [2C]	8.369	8.368	0.001	3583333		100.000	102.7
18 Endosulfan II [2C]	8.581	8.579	0.002	3041163		100.000	89.76
14 4,4'-DDT [2C]	8.682	8.679	0.003	2080603		100.000	77.14
21 Endrin Aldehyde [2C]	8.801	8.799	0.002	2530059		100.000	91.63
19 Endosulfan Sulfate [2C]	9.076	9.076	0.000	2841322		100.000	107.8
27 Methoxychlor [2C]	9.396	9.396	0.000	1229514		100.000	82.30
22 Endrin Ketone [2C]	9.734	9.734	0.000	3399364	*	100.000	95.00
$ 39 DCB [2C]	11.092	11.091	0.001	2359449		100.000	✗89.39

10/04/11

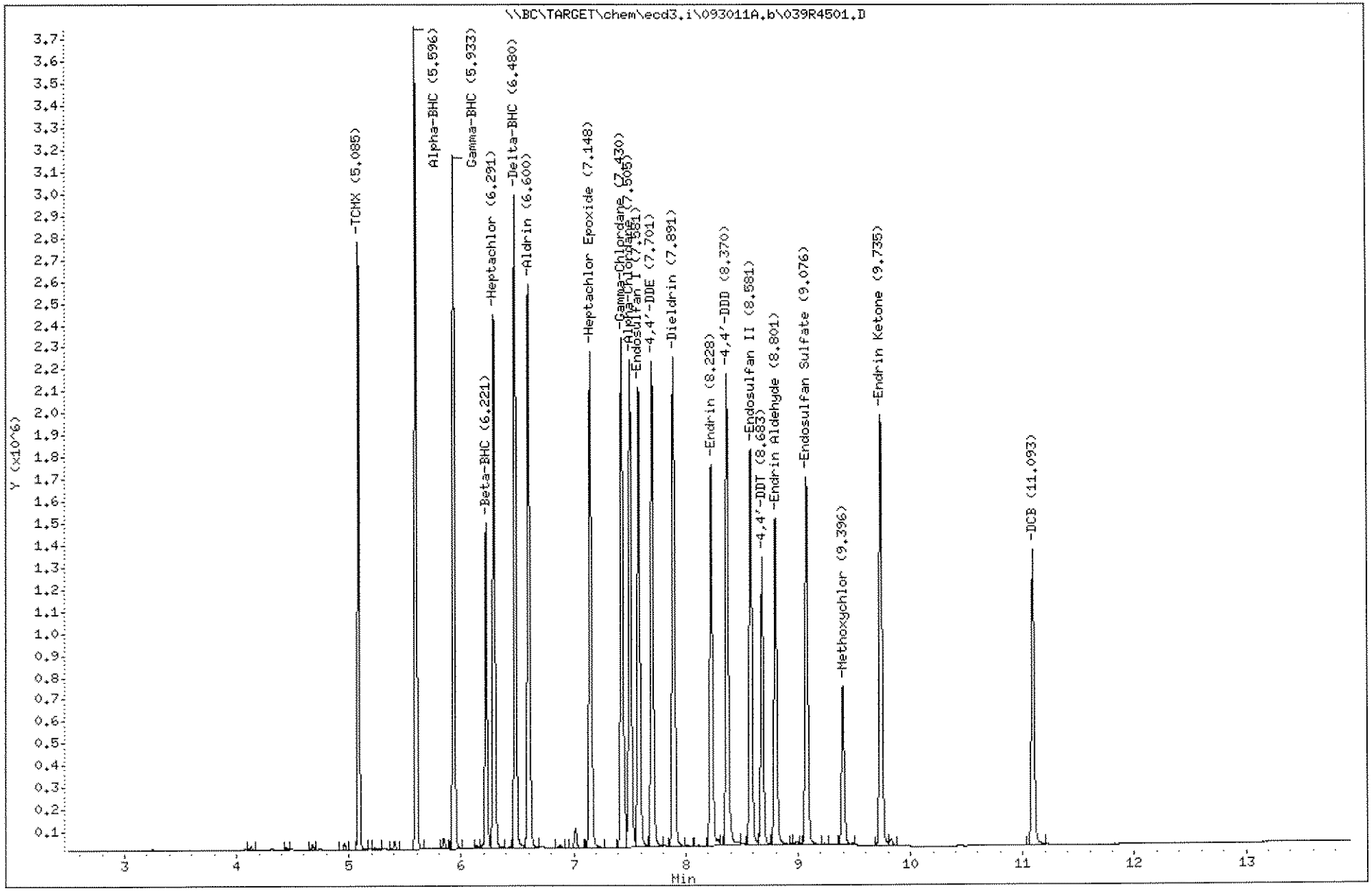
Data File: \\BC\TARGET\chem\ecd3.i\093011A.b\039R4501.D
Date : 01-OCT-2011 03:27
Client ID:
Sample Info: SEQ-CCVD

Instrument: ecd3.i

Operator: EM

Column phase: ZB MR-2

Column diameter: 0.32



1481

1109191

JH 10.4.11

Empirical Laboratories, LLC

SW-846 METHODS 8081A/8082

Data file : \\BC\TARGET\chem\ecd3.i\093011A.b\042F4801.D
Lab Smp Id: SEQ-CCVG
Inj Date : 01-OCT-2011 04:23
Operator : EM Inst ID: ecd3.i
Smp Info : SEQ-CCVG
Misc Info : ;;;;;;AR1660.sub
Comment :
Method : \\BC\TARGET\chem\ecd3.i\093011A.b\8081_82F.m
Meth Date : 04-Oct-2011 10:40 jeh Quant Type: ESTD
Cal Date : 13-OCT-2010 07:10 Cal File: 016F1601.D
Als bottle: 42 Continuing Calibration Sample
Dil Factor: 1.00000
Integrator: Falcon Compound Sublist: AR1660.sub
Target Version: 4.04 Sample Matrix: None
Processing Host: NSH-LAPTOP1

RT	EXP RT	DLT RT	RESPONSE	AMOUNTS CAL-AMT (ng/mL)	AMOUNTS ON-COL (ng/mL)	TARGET RANGE	RATIO
29 PCB-1016					CAS #: 12674-11-2		
7.066	7.066	(0.000)	2092271	1000.00	1503	80.00- 120.00	100.00
6.519	6.521	(-0.002)	921938	1000.00	1374	35.25- 52.88	44.06
6.732	6.732	(0.000)	930597	1000.00	1413	35.58- 53.37	44.48
7.041	7.041	(0.000)	1418728	1000.00	1480	54.25- 81.37	67.81
7.134	7.136	(-0.002)	1182361			45.21- 67.81	56.51
7.247	7.249	(-0.002)	945947	1000.00	1445	36.17- 54.25	45.21
		Average of Peak Amounts =			1443		
35 PCB-1260					CAS #: 11096-82-5		
10.447	10.447	(0.000)	4732675	1000.00	1318	80.00- 120.00	100.00
8.977	8.979	(-0.002)	1980210			33.47- 50.21	41.84
9.309	9.311	(-0.002)	2562115	1000.00	1329	43.31- 64.96	54.14
9.657	9.661	(-0.004)	2830014	1000.00	1354	47.84- 71.76	59.80
9.764	9.764	(0.000)	1973131	1000.00	1328	33.35- 50.03	41.69
10.046	10.046	(0.000)	2042635			34.53- 51.79	43.16
10.807	10.807	(0.000)	2812322			47.54- 71.31	59.42
11.554	11.556	(-0.002)	* 1187718	1000.00	1196	20.08- 30.12	25.10
		Average of Peak Amounts =			1305		

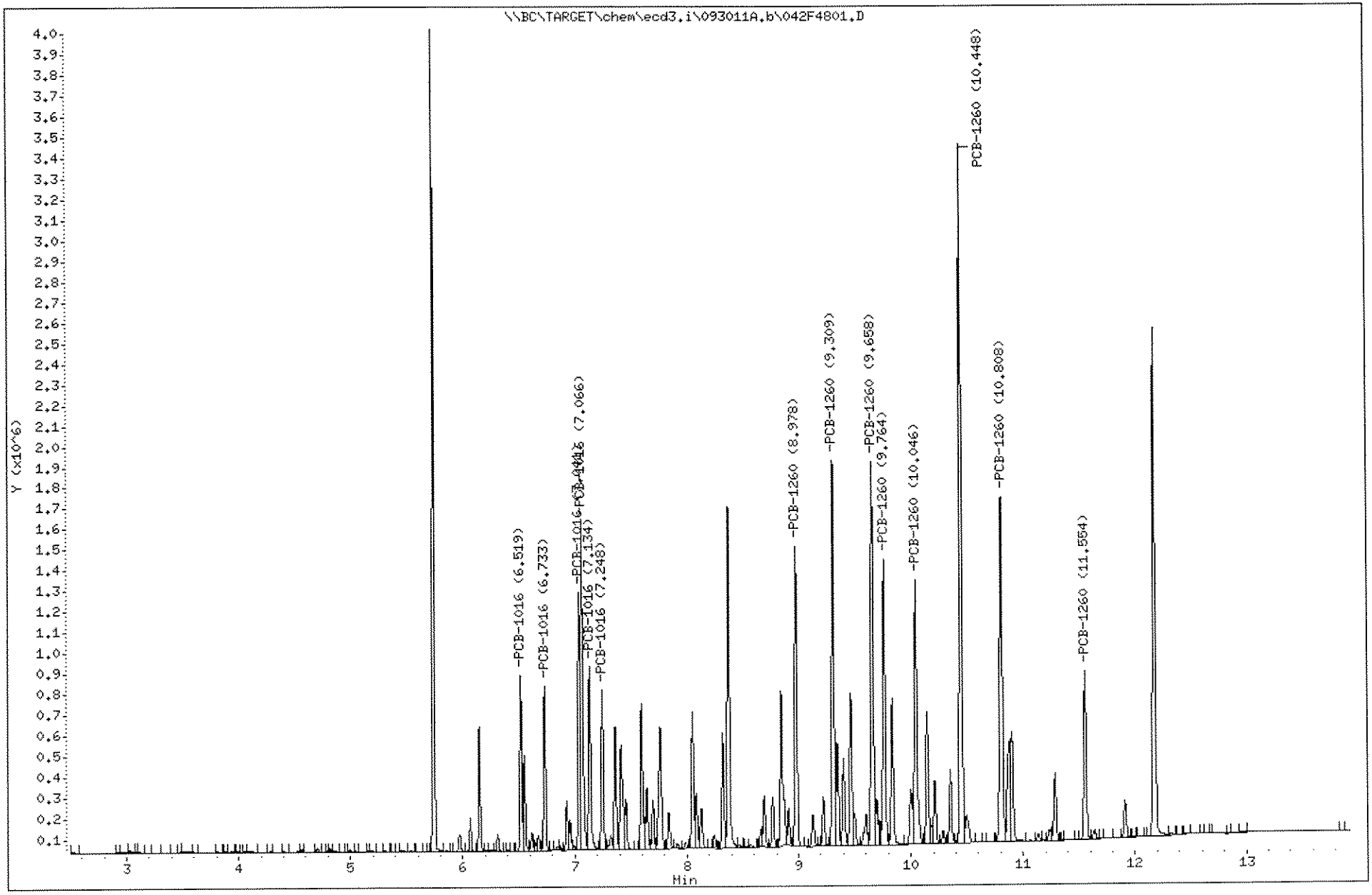
10/04/11

Data File: \\BC\TARGET\chem\ecd3.i\093011A.b\042F4801.D
Date : 01-OCT-2011 04:23
Client ID:
Sample Info: SEQ-CCVG

Instrument: ecd3.i

Operator: EM
Column diameter: 0.32

Column phase: ZB MR-1



1483

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J.H. 10.4.11

Empirical Laboratories, LLC

SW-846 METHODS 8081A/8082

Data file : \\BC\TARGET\chem\ecd3.i\093011A.b\042R4801.D
Lab Smp Id: SEQ-CCVG
Inj Date : 01-OCT-2011 04:23
Operator : EM Inst ID: ecd3.i
Smp Info : SEQ-CCVG
Misc Info : ;;;;;;AR1660.sub
Comment :
Method : \\BC\TARGET\chem\ecd3.i\093011A.b\8081_82R.m
Meth Date : 04-Oct-2011 10:40 jeh Quant Type: ESTD
Cal Date : 13-OCT-2010 07:10 Cal File: 016R1601.D
Als bottle: 42 Continuing Calibration Sample
Dil Factor: 1.00000
Integrator: Falcon Compound Sublist: AR1660.sub
Target Version: 4.04 Sample Matrix: None
Processing Host: NSH-LAPTOP1

RT	EXP RT	DLT RT	RESPONSE	AMOUNTS CAL-AMT (ng/mL)	AMOUNTS ON-COL (ng/mL)	TARGET RANGE	RATIO
29 PCB-1016 [2C]					CAS #: 12674-11-2		
6.293	6.293	(0.000)	1547547	1000.00	1479	80.00- 120.00	100.00
5.497	5.497	(0.000)	548314			28.34- 42.52	35.43
6.025	6.025	(0.000)	772151	1000.00	1346	39.92- 59.87	49.90
6.275	6.275	(0.000)	1100134	1000.00	1331	56.87- 85.31	71.09
6.490	6.492	(-0.002)	786856	1000.00	1395	40.68- 61.01	50.85
6.543	6.543	(0.000)	786200	1000.00	1305	40.64- 60.96	50.80
		Average of Peak Amounts =			1371		
35 PCB-1260 [2C]					CAS #: 11096-82-5		
9.368	9.368	(0.000)	3414766	1000.00 X	1308	80.00- 120.00	100.00
8.270	8.268	(0.002)	1974339	1000.00	1298	46.25- 69.38	57.82
8.455	8.455	(0.000)	1824138	1000.00	1290	42.74- 64.10	53.42
8.675	8.677	(-0.002)	2092315	1000.00	1337	49.02- 73.53	61.27
8.727	8.728	(-0.001)	1661369			38.92- 58.38	48.65
9.052	9.053	(-0.001)	* 1492995	1000.00	1299	34.98- 52.47	43.72
9.808	9.810	(-0.002)	2376309			55.67- 83.51	69.59
10.455	10.458	(-0.003)	800890			18.76- 28.14	23.45
		Average of Peak Amounts =			1306		

10/04/11

Data File: \\BC\TARGET\chem\ecd3.i\093011A.b\042R4801.D

Date : 01-OCT-2011 04:23

Client ID:

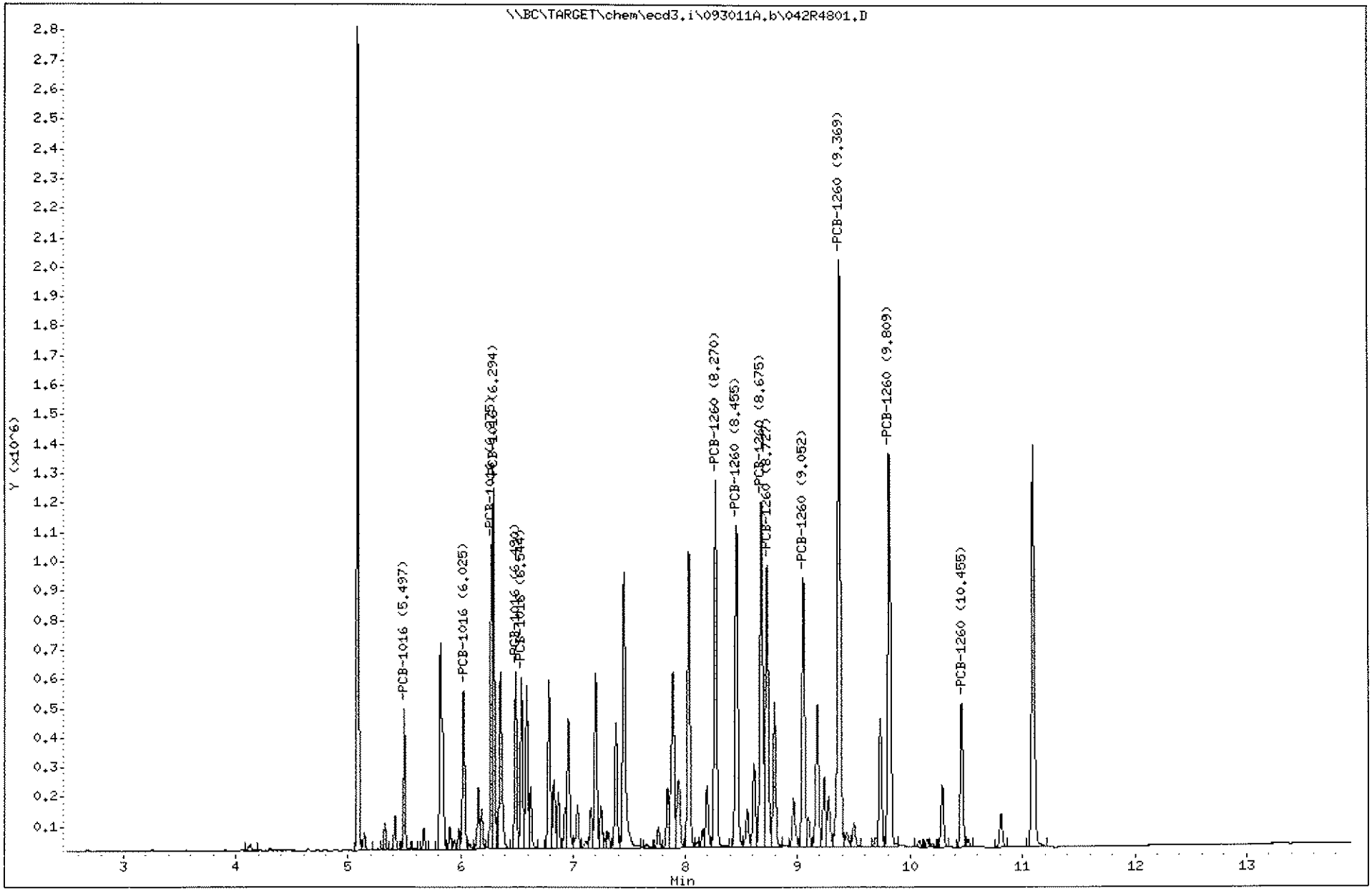
Sample Info: SEQ-CCVG

Column phase: ZB MR-2

Instrument: ecd3.i

Operator: EM

Column diameter: 0.32



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Sequence: C:\HPCHEM\ECD3\SEQUENCE\101211.S\ECD.S\ HP.7F\8081_82 PG 403 Em 210

10.14.11

Sequence Table (Front/BACK Injector):

Quantification Part:

Line	Location	SampleName	SampleAmount	ISTDAmt	Multiplier	Dilution
1	Vial 1	Pest Primer				
2	Vial 2	SEQ-CCV1(1660) 11J0557				
3	Vial 3	SEQ-CCV2(1254) 11J0041				
4	Vial 4	1109182-19;CuA 1x				
5	Vial 5	1J04002-BLK1				
6	Vial 6	1J04002-BS1 — NOT NEEDED				
7	Vial 7	1J04002-BS2				
8	Vial 8	111003-01 1x				
9	Vial 9	111003-03				
10	Vial 10	111003-05				
11	Vial 11	111003-07				
12	Vial 12	111003-09				
13	Vial 13	111003-11				
14	Vial 14	111003-12				
15	Vial 15	1J04002-MS1				
16	Vial 16	1J04002-MSD1 > NOT NEEDED				
17	Vial 17	1J04002-MS2				
18	Vial 18	1J04002-MSD2				
19	Vial 19	111003-14				
20	Vial 20	1I29004-BLK1;CuA				
21	Vial 21	1I29004-BS1;CuA				
22	Vial 22	1109180-01;CuA 1x				
23	Vial 23	1I29004-MS1;CuA				
24	Vial 24	1I29004-MSD1;CuA				
25	Vial 25	SEQ-CCV3 (1660)				
26	Vial 26	SEQ-CCV4 (1254)				
27	Vial 27	1109180-02;CuA 1x				
28	Vial 28	1109180-03;CuA				
29	Vial 29	1109180-04;CuA				
30	Vial 30	1109180-05;CuA				
31	Vial 31	1109180-06;CuA				
32	Vial 32	1109180-07;CuA				
33	Vial 33	1109180-08;CuA				
34	Vial 34	1109180-09;CuA				
35	Vial 35	1109180-10;CuA				
36	Vial 36	1109180-11;CuA				
37	Vial 37	SEQ-CCV5(1660)				
38	Vial 38	SEQ-CCV6 (1254)				
39	Vial 39	1109180-12;CuA 1x				
40	Vial 40	1109180-13;CuA				
41	Vial 41	1109180-14;CuA				
42	Vial 42	1109180-15;CuA				
43	Vial 43	1109180-16;CuA				
44	Vial 44	1109180-17;CuA				
45	Vial 45	1109180-18;CuA				
46	Vial 46	1109180-19;CuA				
47	Vial 47	1109180-20;CuA				
48	Vial 48	1I29016-BLK1;CuA				
49	Vial 49	1I29016-BS1;CuA				
50	Vial 50	1109191-01;CuA 1x				
51	Vial 51	SEQ-CCV7(1660)				
52	Vial 52	SEQ-CCV8 (1254)				
53	Vial 53	1109191-02;CuA 1x				
54	Vial 54	1I29016-MS1;CuA				
55	Vial 55	1I29016-MSD1;CuA				
56	Vial 56	1109191-03;CuA				
57	Vial 57	1109191-04,CuA				
58	Vial 58	1109191-05;CuA				
59	Vial 59	1109191-06;CuA				

Sequence: C:\HPCHEM\ECD3\SEQUENCE\101211.S \ECD-3\ MP 7F \8081-8C MG 404 EM 210

10.14.11

Line	Location	SampleName	SampleAmount	ISTDAmt	Multiplier	Dilution
60	Vial 60	1109192-01;CuA 1X				
61	Vial 61	1109192-02;CuA				
62	Vial 62	1109192-03;CuA				
63	Vial 63	1109192-04;CuA				
64	Vial 64	1109192-05;CuA				
65	Vial 65	SEQ-CCV9 (1660)				
66	Vial 66	SEQ-CCVA (1254)				
67	Vial 67	1109192-06;CuA 1X				
68	Vial 68	1109192-07;CuA				
69	Vial 69	1109192-08;CuA				
70	Vial 70	1109192-09;CuA				
71	Vial 71	1109192-10;CuA				
72	Vial 72	1109192-11;CuA				
73	Vial 73	1109192-13;CuA				
74	Vial 74	1109192-14;CuA				
75	Vial 75	1109192-15;CuA				
76	Vial 76	1J03002-BLK1;CuA				
77	Vial 77	1J03002-BS1;CuA				
78	Vial 78	1J03002-BS2;CuA				
79	Vial 79	1109192-16;CuA 1X				
80	Vial 80	1J03002-MS1;CuA				
81	Vial 81	1J03002-MSD1;CuA				
82	Vial 82	1J03002-MS2;CuA				
83	Vial 83	1J03002-MSD2;CuA				
84	Vial 84	SEQ-CCVB (1660)				
85	Vial 85	SEQ-CCVC (1254)				
86	Vial 86	1109192-17;CuA 1X				
87	Vial 87	1109192-18;CuA				
88	Vial 88	1109192-19;CuA				
89	Vial 89	1109192-20;CuA				
90	Vial 90	SEQ-CCVD (1660)				
91	Vial 91	SEQ-CCVE (1254)				
92	Vial 92	PCB-1221 11H0200				
93	Vial 93	PCB-1232 10L0110				
94	Vial 94	PCB-1242 11F0254				
95	Vial 95	PCB-1248 1170304				
96	Vial 96	PCB-1262 10K02222 EM 10.14.11				
97	Vial 97	PCB-1268 10K0736				

RE-ANALYZED

10.14.11

> LOW BOTH COLUMNS

S~~equence Table (Back Injector)~~:

No ~~entries - empty table!~~

JH. 10.14.11

Empirical Laboratories, LLC

SW-846 METHODS 8081A/8082

Data file : \\BC\TARGET\chem\ecd3.i\101211.b\002F0201.D
Lab Smp Id: SEQ-CCV1
Inj Date : 12-OCT-2011 13:35
Operator : EM Inst ID: ecd3.i
Smp Info : SEQ-CCV1
Misc Info : ;;;;;;1660D.sub
Comment :
Method : \\BC\TARGET\chem\ecd3.i\101211.b\8081_82F.m
Meth Date : 13-Oct-2011 22:46 jeh Quant Type: ESTD
Cal Date : 10-AUG-2011 19:35 Cal File: 002F0101.D
Als bottle: 2 Continuing Calibration Sample
Dil Factor: 1.00000
Integrator: Falcon Compound Sublist: 1660d.sub
Target Version: 4.04 Sample Matrix: None
Processing Host: NSH-LAPTOP1

RT	EXP RT	DLT RT	RESPONSE	AMOUNTS CAL-AMT (ng/mL)	AMOUNTS ON-COL (ng/mL)	TARGET RANGE	RATIO
29 PCB-1016					CAS #: 12674-11-2		
7.502	7.502	(0.000)	1744796	1000.00 X	1015	80.00- 120.00	100.00
6.935	6.935	(0.000)	797375	1000.00	948.0	36.56- 54.84	45.70
7.159	7.159	(0.000)	792504	1000.00	974.5	36.34- 54.51	45.42
7.477	7.477	(0.000)	1198831	1000.00	972.6	54.97- 82.45	68.71
7.575	7.575	(0.000)	971771			44.56- 66.83	55.70
7.694	7.694	(0.000)	782652	1000.00	947.1	35.89- 53.83	44.86
		Average of Peak Amounts =			971.4		
35 PCB-1260					CAS #: 11096-82-5		
10.949	10.949	(0.000)	4056893	1000.00	987.9	80.00- 120.00	100.00
9.464	9.464	(0.000)	1767407			34.85- 52.28	43.57
9.797	9.797	(0.000)	2214978	1000.00	998.0	43.68- 65.52	54.60
10.155	10.156	(-0.001)	2413563	1000.00	988.5	47.59- 71.39	59.49
10.259	10.259	(0.000)	1707235	1000.00	972.3	33.67- 50.50	42.08
10.545	10.546	(-0.001)	1807127			35.64- 53.45	44.54
11.317	11.317	(0.000)	2491502			49.13- 73.70	61.41
12.069	12.069	(0.000)	1061777	1000.00	982.7	20.94- 31.41	26.17
		Average of Peak Amounts =			985.9		
$ 38 TCMX					CAS #: 877-09-8		
6.129	6.129	(0.000)	3460473	100.000	91.85		
$ 39 DCB					CAS #: 2051-24-3		
12.707	12.707	(0.000)	* 3321220	100.000	88.75		

10/16/11

Data File: \\BC\TARGET\chem\ecd3.i\101211.b\002F0201.D

Date : 12-OCT-2011 13:35

Client ID:

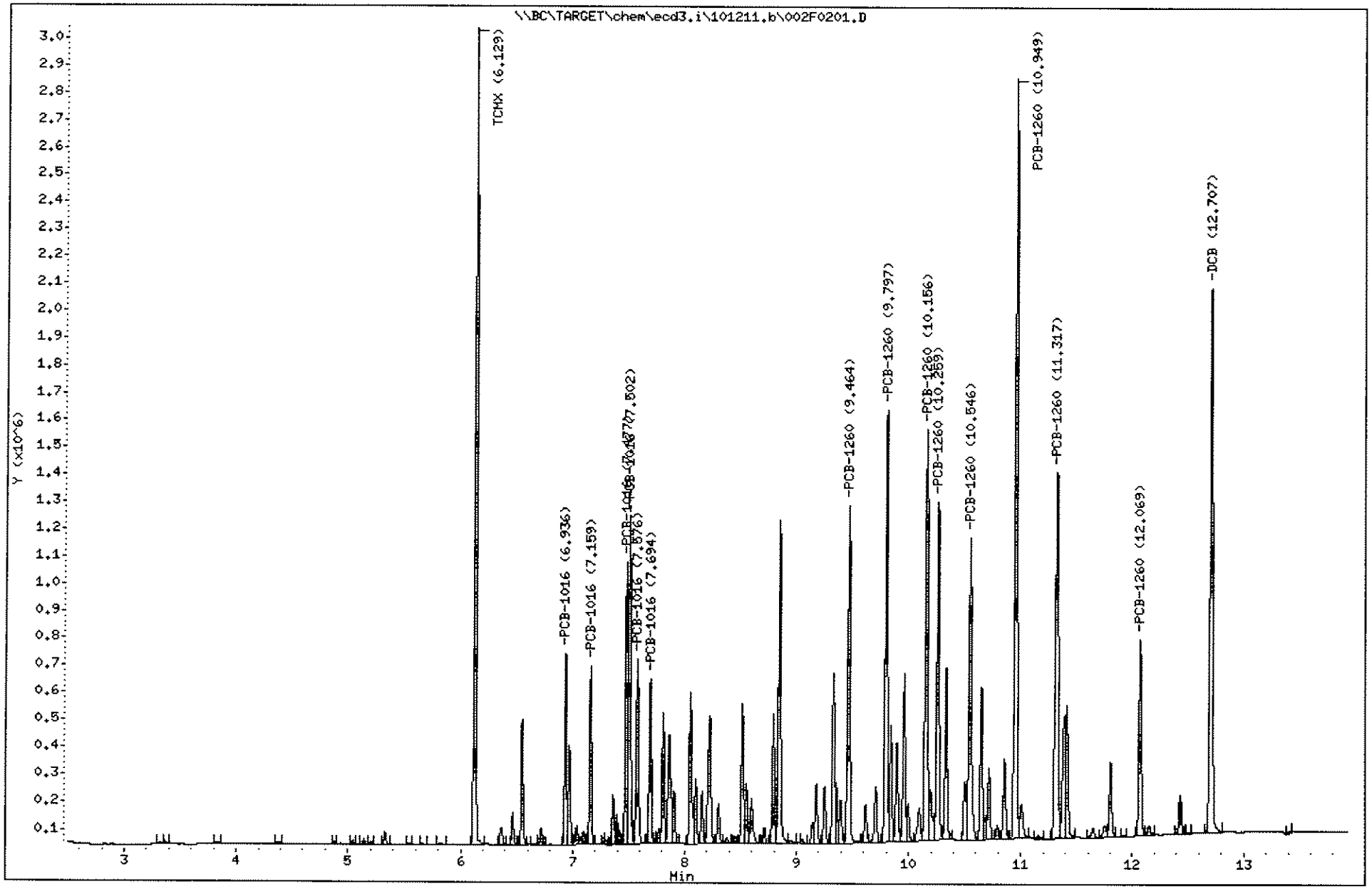
Sample Info: SEQ-CCV1

Column phase: ZB HR-1

Instrument: ecd3.i

Operator: EM

Column diameter: 0.32



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SW-846 METHODS 8081A/8082

Data file : \\BC\TARGET\chem\ecd3.i\101211.b\002R0201.D
Lab Smp Id: SEQ-CCV1
Inj Date : 12-OCT-2011 13:35
Operator : EM
Inst ID: ecd3.i
Smp Info : SEQ-CCV1
Misc Info : ;;;;;;1660D.sub
Comment :
Method : \\BC\TARGET\chem\ecd3.i\101211.b\8081_82R.m
Meth Date : 13-Oct-2011 22:46 jeh
Quant Type: ESTD
Cal Date : 10-AUG-2011 19:35
Cal File: 002R0101.D
Als bottle: 2
Continuing Calibration Sample
Dil Factor: 1.00000
Integrator: Falcon
Compound Sublist: 1660d.sub
Target Version: 4.04
Sample Matrix: None
Processing Host: NSH-LAPTOP1

RT	EXP RT	DLT RT	RESPONSE	AMOUNTS CAL-AMT (ng/mL)	AMOUNTS ON-COL (ng/mL)	TARGET RANGE	RATIO
29 PCB-1016 [2C]					CAS #: 12674-11-2		
6.681	6.681	(0.000)	1779241	1000.00	1460	80.00- 120.00	100.00
5.848	5.848	(0.000)	656377			29.51- 44.27	36.89
6.403	6.403	(0.000)	945606	1000.00	1378	42.52- 63.78	53.15
6.660	6.660	(0.000)	1306512	1000.00	1373	58.74- 88.12	73.43
6.888	6.888	(0.000)	741534	1000.00	1147	33.34- 50.01	41.68
6.986	6.986	(0.000)	962303	1000.00	1441	43.27- 64.90	54.09
		Average of Peak Amounts =			1360		
35 PCB-1260 [2C]					CAS #: 11096-82-5		
9.826	9.826	(0.000)	3493536	1000.00	1400	80.00- 120.00	100.00
8.710	8.710	(0.000)	2024292	1000.00	1317	46.36- 69.53	57.94
8.903	8.903	(0.000)	1610770	1000.00	1128	36.89- 55.33	46.11
9.126	9.126	(0.000)	2120596	1000.00	1398	48.56- 72.84	60.70
9.176	9.176	(0.000)	1646792			37.71- 56.57	47.14
9.510	9.510	(0.000)	1507012	1000.00	1360	34.51- 51.76	43.14
10.278	10.278	(0.000)	2292746			52.50- 78.75	65.63
10.930	10.930	(0.000)	737836			16.90- 25.34	21.12
		Average of Peak Amounts =			1321		
$ 38 TCMX [2C]					CAS #: 877-09-8		
5.421	5.421	(0.000)	3641412	100.000	98.77		
$ 39 DCB [2C]					CAS #: 2051-24-3		
11.573	11.573	(0.000)	2471880	100.000	93.71 *		

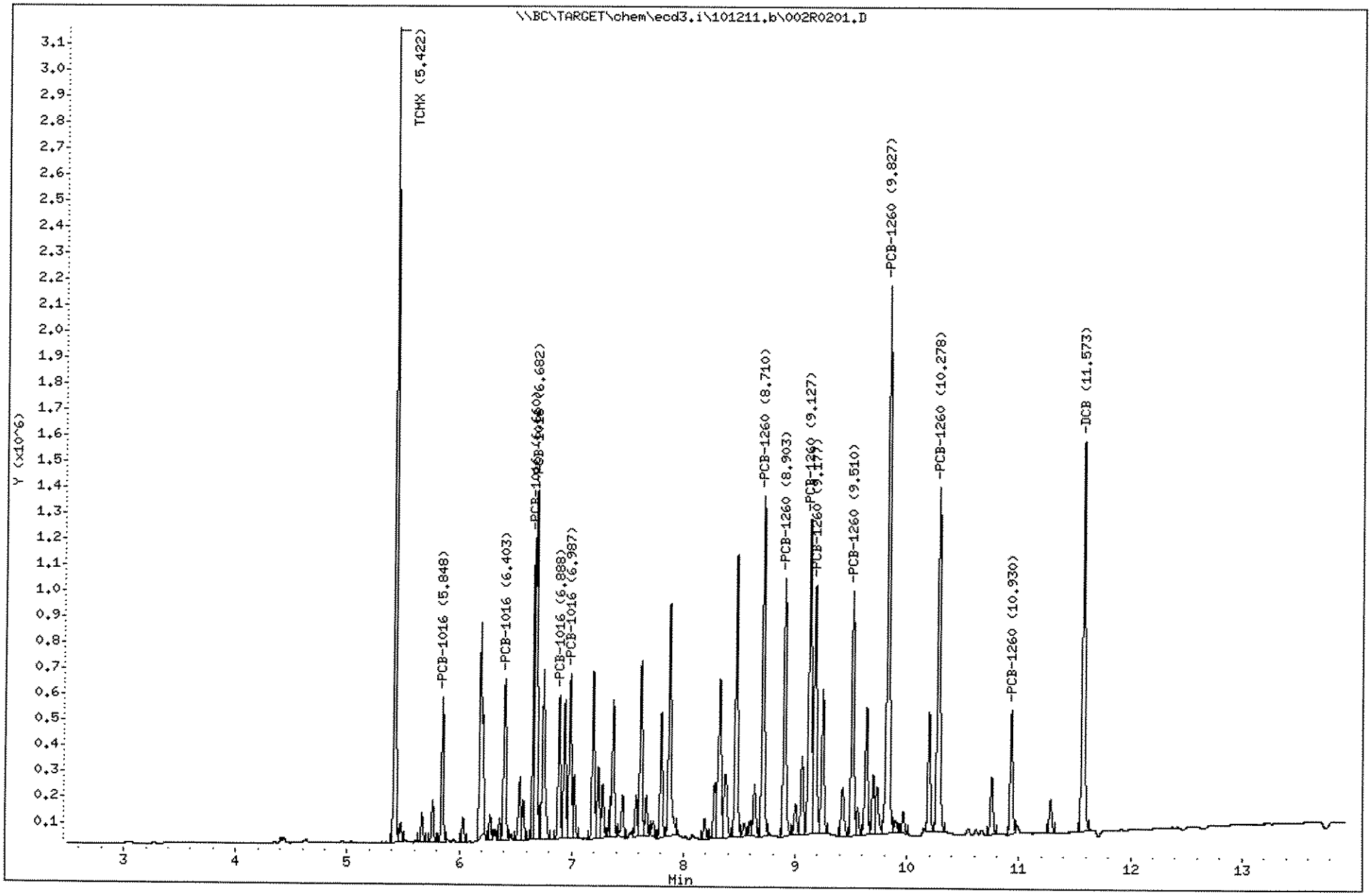
10/16/11

Data File: \\BC\TARGET\chem\ecd3.i\101211.b\002R0201.D
Date : 12-OCT-2011 13:35
Client ID:
Sample Info: SEQ-CCV1

Column phase: ZB MR-2

Instrument: ecd3.i

Operator: EM
Column diameter: 0.32



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SW-846 METHODS 8081A/8082

Data file : \\BC\TARGET\chem\ecd3.i\101211.b\037F3701.D
Lab Smp Id: SEQ-CCV5
Inj Date : 13-OCT-2011 00:31
Operator : EM Inst ID: ecd3.i
Smp Info : SEQ-CCV5
Misc Info : ;;;;;;1660D.sub
Comment :
Method : \\BC\TARGET\chem\ecd3.i\101211.b\8081_82F.m
Meth Date : 13-Oct-2011 23:05 jeh Quant Type: ESTD
Cal Date : 10-AUG-2011 19:35 Cal File: 002F0101.D
Als bottle: 37 Continuing Calibration Sample
Dil Factor: 1.00000
Integrator: Falcon Compound Sublist: 1660d.sub
Target Version: 4.04 Sample Matrix: None
Processing Host: NSH-LAPTOP1

RT	EXP RT	DLT RT	RESPONSE	AMOUNTS CAL-AMT (ng/mL)	AMOUNTS ON-COL (ng/mL)	TARGET RANGE	RATIO
29 PCB-1016					CAS #: 12674-11-2		
7.504	7.502	(0.002)	1939297	1000.00	1128	80.00- 120.00	100.00
6.938	6.935	(0.003)	863126	1000.00	1026	35.61- 53.41	44.51
7.159	7.159	(0.000)	847828	1000.00	1042	34.97- 52.46	43.72
7.478	7.477	(0.001)	1263252	1000.00	1025	52.11- 78.17	65.14
7.578	7.575	(0.003)	1055825			43.55- 65.33	54.44
7.694	7.694	(0.000)	844522	1000.00	1022	34.84- 52.26	43.55
		Average of Peak Amounts =			1049		
35 PCB-1260					CAS #: 11096-82-5		
10.951	10.949	(0.002)	4420083	1000.00	1076	80.00- 120.00	100.00
9.464	9.464	(0.000)	1833012			33.18- 49.76	41.47
9.798	9.797	(0.001)	2359190	1000.00	1063	42.70- 64.05	53.37
10.156	10.156	(0.000)	2595836	1000.00	1063	46.98- 70.47	58.73
10.259	10.259	(0.000)	1839740	1000.00	1048	33.30- 49.95	41.62
10.548	10.546	(0.002)	1910566			34.58- 51.87	43.22
11.319	11.317	(0.002)	2654515			48.04- 72.07	60.06
12.071	12.069	(0.002)	* 1121642	1000.00	1038	20.30- 30.45	25.38
		Average of Peak Amounts =			1058		
$ 38 TCMX					CAS #: 877-09-8		
6.129	6.129	(0.000)	3508332	100.000	93.12		
$ 39 DCB					CAS #: 2051-24-3		
12.708	12.707	(0.001)	3564750	100.000 X	95.26		

10/16/11

Data File: \\BC\TARGET\chem\ecd3.i\101211.b\037F3701.D

Date : 13-OCT-2011 00:31

Client ID:

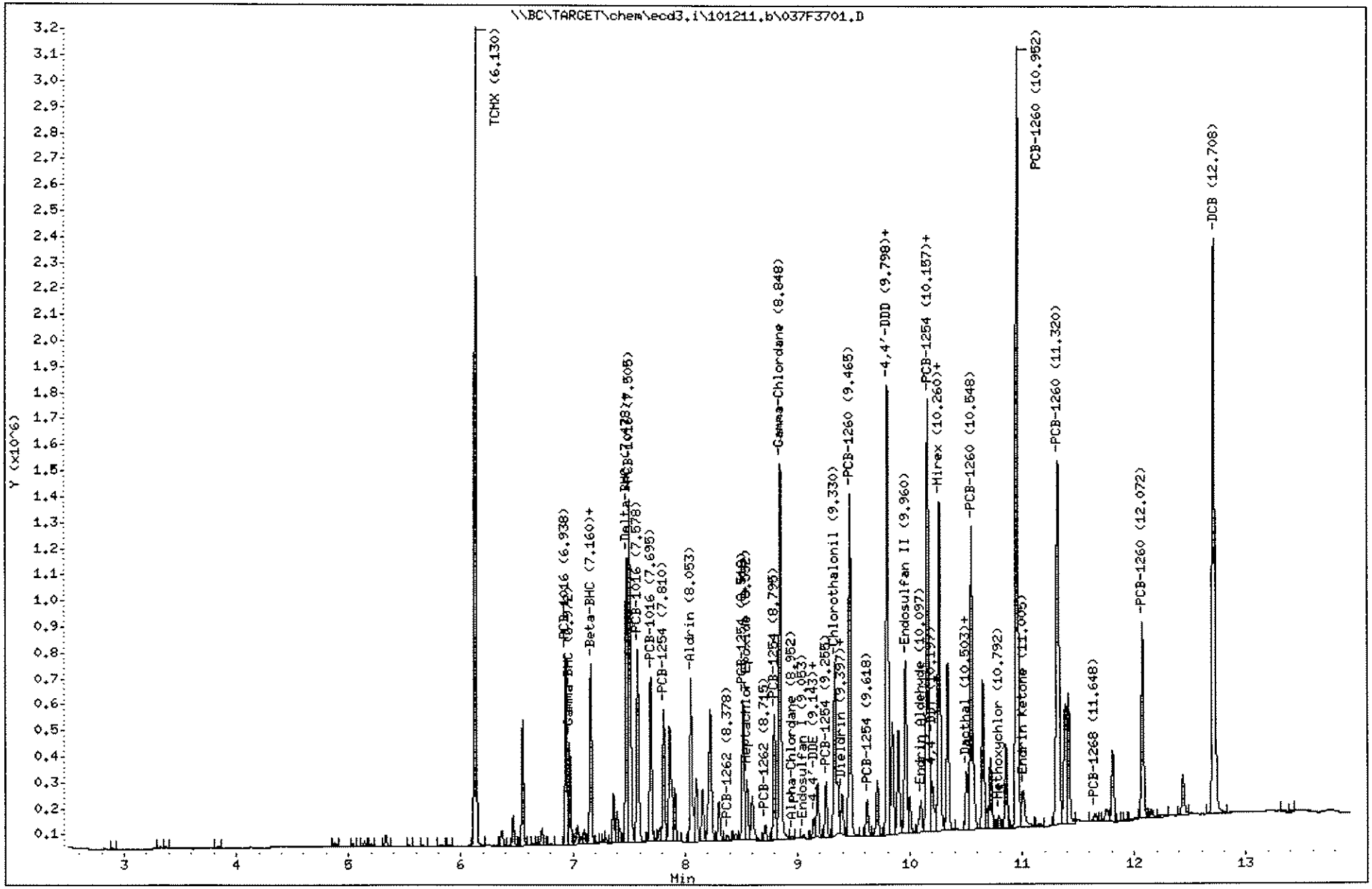
Sample Info: SEQ-CCV8

Column phase: ZB HR-1

Instrument: ecd3.i

Operator: EM

Column diameter: 0.32



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SW-846 METHODS 8081A/8082

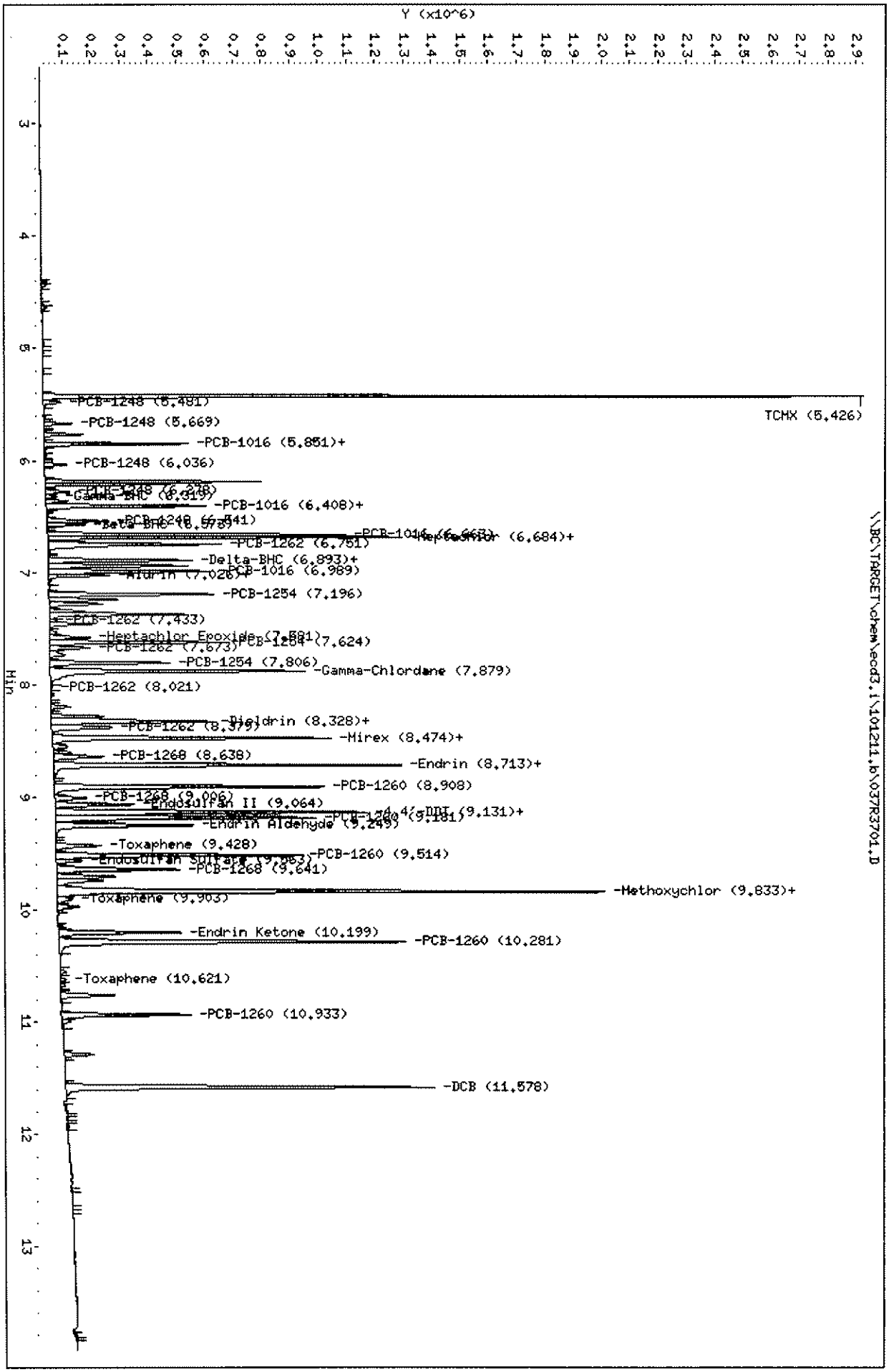
Data file : \\BC\TARGET\chem\ecd3.i\101211.b\037R3701.D
Lab Smp Id: SEQ-CCV5
Inj Date : 13-OCT-2011 00:31
Operator : EM Inst ID: ecd3.i
Smp Info : SEQ-CCV5
Misc Info : ;;;;;;1660D.sub
Comment :
Method : \\BC\TARGET\chem\ecd3.i\101211.b\8081_82R.m
Meth Date : 13-Oct-2011 23:05 jeh Quant Type: ESTD
Cal Date : 10-AUG-2011 19:35 Cal File: 002R0101.D
Als bottle: 37 Continuing Calibration Sample
Dil Factor: 1.00000
Integrator: Falcon Compound Sublist: 1660d.sub
Target Version: 4.04 Sample Matrix: None
Processing Host: NSH-LAPTOP1

RT	EXP RT	DLT RT	RESPONSE	AMOUNTS CAL-AMT (ng/mL)	AMOUNTS ON-COL (ng/mL)	TARGET RANGE	RATIO
29 PCB-1016 [2C]					CAS #: 12674-11-2		
6.684	6.681	(0.003)	1593811	1000.00	1308	80.00- 120.00	100.00
5.850	5.848	(0.002)	606918			30.46- 45.70	38.08
6.407	6.403	(0.004)	878491	1000.00	1280	44.10- 66.14	55.12
6.662	6.660	(0.002)	1248957	1000.00	1313	62.69- 94.04	78.36
6.892	6.888	(0.004)	697979	1000.00	1079	35.03- 52.55	43.79
6.989	6.986	(0.003)	867768	1000.00	1300	43.56- 65.34	54.45
		Average of Peak Amounts =			1256		
35 PCB-1260 [2C]					CAS #: 11096-82-5		
9.832	9.826	(0.006)	3287882	1000.00	1317	80.00- 120.00	100.00
8.712	8.710	(0.002)	1943465	1000.00	1264	47.29- 70.93	59.11
8.907	8.903	(0.004)	1596765	1000.00	1118	38.85- 58.28	48.57
9.130	9.126	(0.004)	1930382	1000.00	1273	46.97- 70.45	58.71
9.180	9.176	(0.004)	1629921			39.66- 59.49	49.57
9.514	9.510	(0.004)	* 1382353	1000.00	1248	33.64- 50.45	42.04
10.280	10.278	(0.002)	2214799			53.89- 80.83	67.36
10.932	10.930	(0.002)	714026			17.37- 26.06	21.72
		Average of Peak Amounts =			1244		
$ 38 TCMX [2C]					CAS #: 877-09-8		
5.425	5.421	(0.004)	3364050	100.000	91.24		
$ 39 DCB [2C]					CAS #: 2051-24-3		
11.577	11.573	(0.004)	2293727	100.000	86.86		

10/16/11

Data File: \\BC\TARGET\chem\ecd3.i\101211.b\037R3701.D
Date : 13-OCT-2011 00:31
Client ID:
Sample Info: SEQ-CCV5
Column phase: ZB HR-2

Instrument: ecd3.i
Operator: EH
Column diameter: 0.32



Page 2

JH 10.14.11

Empirical Laboratories, LLC

SW-846 METHODS 8081A/8082

Data file : \\BC\TARGET\chem\ecd3.i\101211.b\038F3801.D
Lab Smp Id: SEQ-CCV6
Inj Date : 13-OCT-2011 00:50
Operator : EM Inst ID: ecd3.i
Smp Info : SEQ-CCV6
Misc Info : ;;;;;;AR1254.sub
Comment :
Method : \\BC\TARGET\chem\ecd3.i\101211.b\8081_82F.m
Meth Date : 13-Oct-2011 23:05 jeh Quant Type: ESTD
Cal Date : 10-AUG-2011 19:35 Cal File: 002F0101.D
Als bottle: 38 Continuing Calibration Sample
Dil Factor: 1.00000
Integrator: Falcon Compound Sublist: AR1254.sub
Target Version: 4.04 Sample Matrix: None
Processing Host: NSH-LAPTOP1

RT	EXP RT	DLT RT	RESPONSE	AMOUNTS CAL-AMT (ng/mL)	AMOUNTS ON-COL (ng/mL)	TARGET RANGE	RATIO
34 PCB-1254					CAS #: 11097-69-1		
9.252	9.251	(0.001)	2165073	1000.00	989.9	80.00- 120.00	100.00
7.809	7.808	(0.001)	694542	1000.00	949.8	25.66- 38.50	32.08
8.517	8.516	(0.001)	1265207			46.75- 70.12	58.44
8.794	8.793	(0.001)	* 1935026	1000.00	921.9	71.50- 107.25	89.37
9.619	9.618	(0.001)	1673409	1000.00	981.8	61.83- 92.75	77.29
10.157	10.155	(0.002)	1793486	1000.00	988.2	66.27- 99.40	82.84
		Average of Peak Amounts =			966.3		

10/16/11

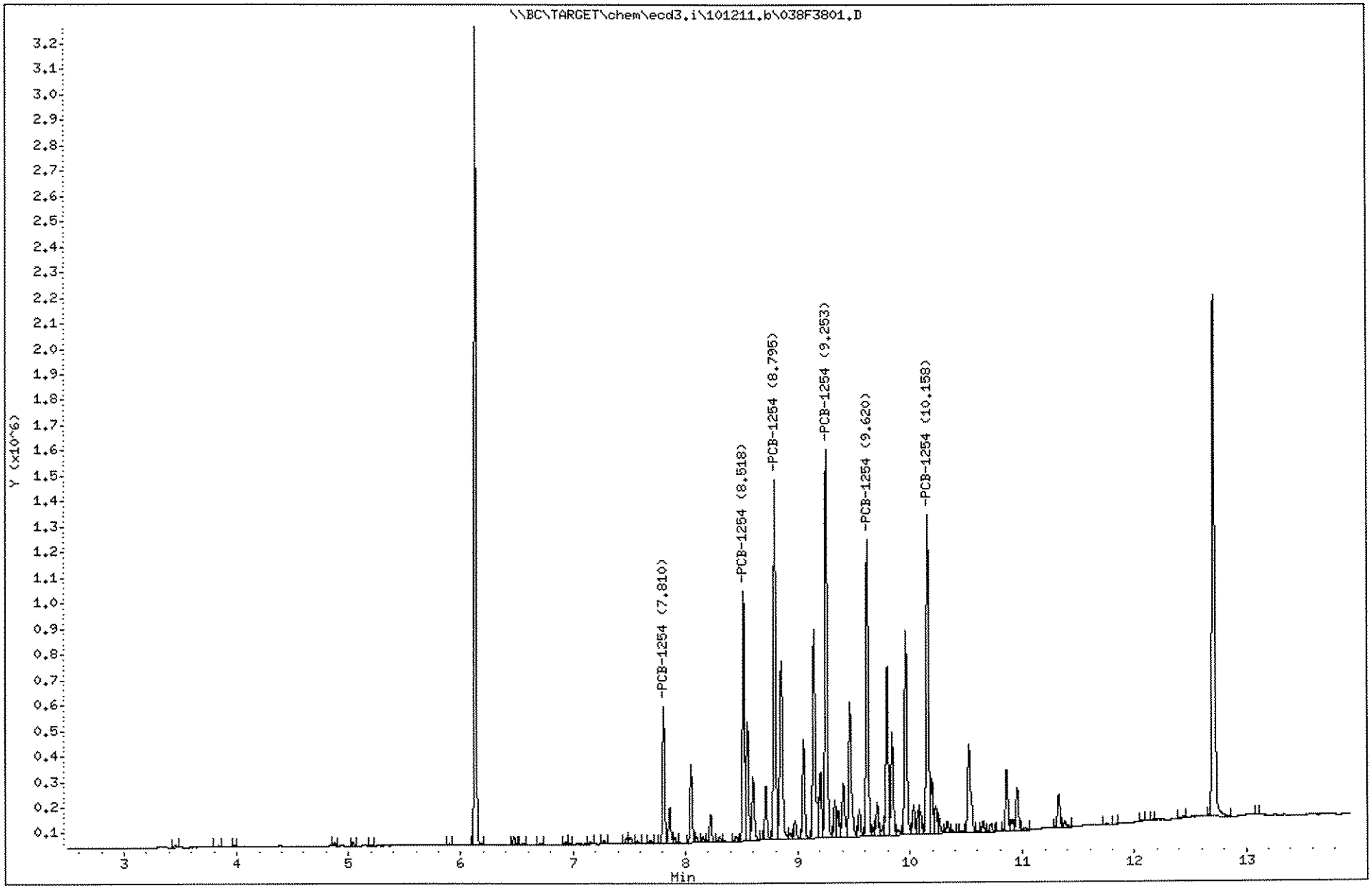
Data File: \\BC\TARGET\chem\ecd3.i\101211.b\038F3801.D
Date : 13-OCT-2011 00:50
Client ID:
Sample Info: SEQ-CCV6

Instrument: ecd3.i

Operator: EM

Column phase: ZB MR-1

Column diameter: 0.32



1497

1109191

JH. 10.14.11

Empirical Laboratories, LLC

SW-846 METHODS 8081A/8082

Data file : \\BC\TARGET\chem\ecd3.i\101211.b\038R3801.D
Lab Smp Id: SEQ-CCV6
Inj Date : 13-OCT-2011 00:50
Operator : EM Inst ID: ecd3.i
Smp Info : SEQ-CCV6
Misc Info : ;;;;;;AR1254.sub
Comment :
Method : \\BC\TARGET\chem\ecd3.i\101211.b\8081_82R.m
Meth Date : 13-Oct-2011 23:06 jeh Quant Type: ESTD
Cal Date : 10-AUG-2011 19:35 Cal File: 002R0101.D
Als bottle: 38 Continuing Calibration Sample
Dil Factor: 1.00000
Integrator: Falcon Compound Sublist: AR1254.sub
Target Version: 4.04 Sample Matrix: None
Processing Host: NSH-LAPTOP1

RT	EXP RT	DLT RT	RESPONSE	AMOUNTS CAL-AMT (ng/mL)	AMOUNTS ON-COL (ng/mL)	TARGET RANGE	RATIO
34 PCB-1254 [2C]					CAS #: 11097-69-1		
8.308	8.306	(0.002)	2299375	1000.00	1299	80.00- 120.00	100.00
7.195	7.192	(0.003)	454791			15.82- 23.73	19.78
7.622	7.621	(0.001)	1846674	1000.00	1304	64.25- 96.37	80.31
7.805	7.802	(0.003)	* 1603824	1000.00	1320	55.80- 83.70	69.75
8.473	8.471	(0.002)	1168929	1000.00	1282	40.67- 61.00	50.84
9.132	9.129	(0.003)	1916556	1000.00 X	1272	66.68- 100.02	83.35
		Average of Peak Amounts =			1296		

10/16/11

Data File: \\BC\TARGET\chem\ecd3.i\101211.b\038R3801.D

Date : 13-OCT-2011 00:50

Client ID:

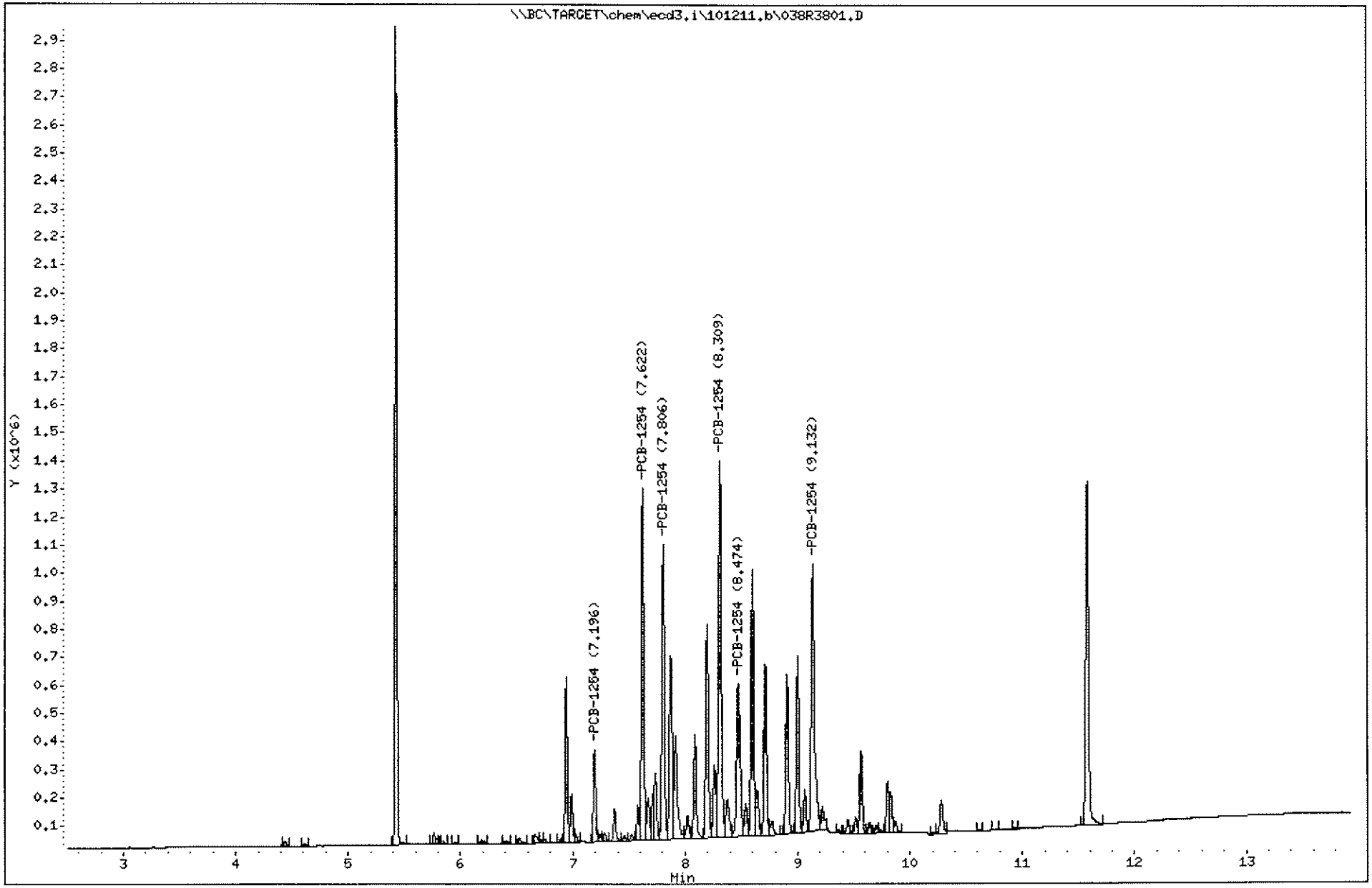
Instrument: ecd3.i

Sample Info: SEQ-CCV6

Operator: EM

Column phase: ZB MR-2

Column diameter: 0.32



1499

1109191

JH 10.14.11

Empirical Laboratories, LLC

Sample #1 : \\BC\TARGET\chem\ecd3.i\101211.b\048F4801.D
Sample #2 : \\BC\TARGET\chem\ecd3.i\101211.b\048R4801.D
Inj Date : 13-OCT-2011 03:57
Sample Info: 1I29016-BLK1;CuA
Misc Info : ;;;;;;PCB.sub
Cal Date : 13-OCT-2011 23:05
Operator : EM
Inst ID : ecd3.i
Dil Factor : 1.000000

Method #1 : \\BC\TARGET\chem\ecd3.i\101211.b\8081_82F.m
Method #2 : \\BC\TARGET\chem\ecd3.i\101211.b\8081_82R.m
Sub List #1 : PCB.sub
Sub List #2 : PCB.sub
Col #1 Phase : ZB MR-1
Col #2 Phase : ZB MR-2

Compound	RT#1	RT#2	Resp#1	Resp#2	Conc#1	Conc#2	Target Range	Ratio
TCMX	6.128	5.424	2849639	3003436	75.64	81.46		100.00(R)
DCB	12.710	11.576	2866758	2131810	76.61	80.64		100.00(R)

QC Flag Legend

R - Spike/Surrogate failed recovery limits.

10/16/11

NOTE : BATCH 1I29016 IS POSSIBLY DOUBLE SPIKED.

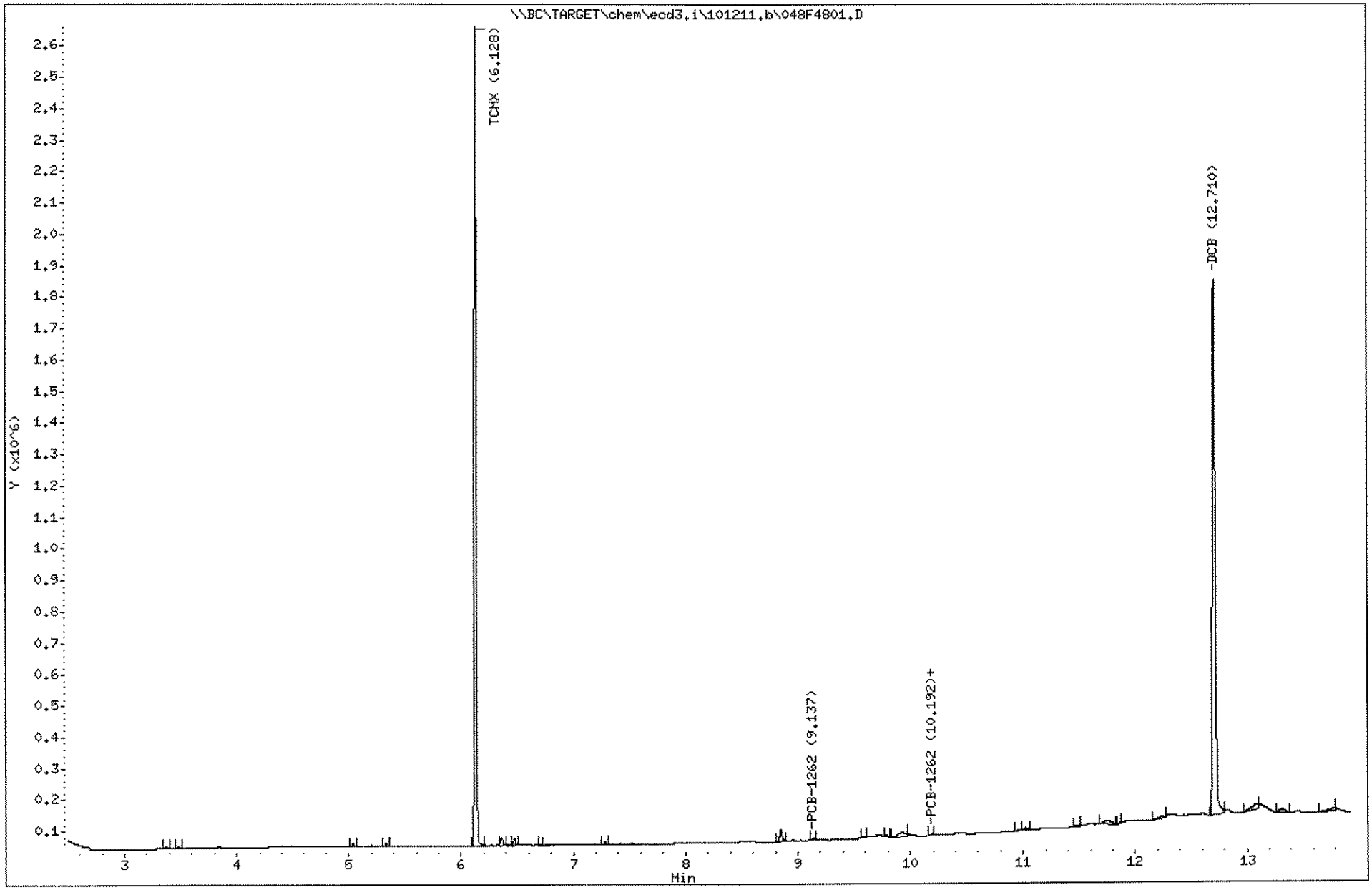
Data File: \\BC\TARGET\chem\ecd3.i\101211.b\048F4801.D
Date : 13-OCT-2011 03:57
Client ID:
Sample Info: 1I29016-BLK1;CuA

Instrument: ecd3.i

Operator: EM

Column phase: ZB MR-1

Column diameter: 0.32



1501

1109191

Data File: \\BC\TARGET\chem\ecd3.i\101211.b\048R4801.D

Date : 13-OCT-2011 03:57

Client ID:

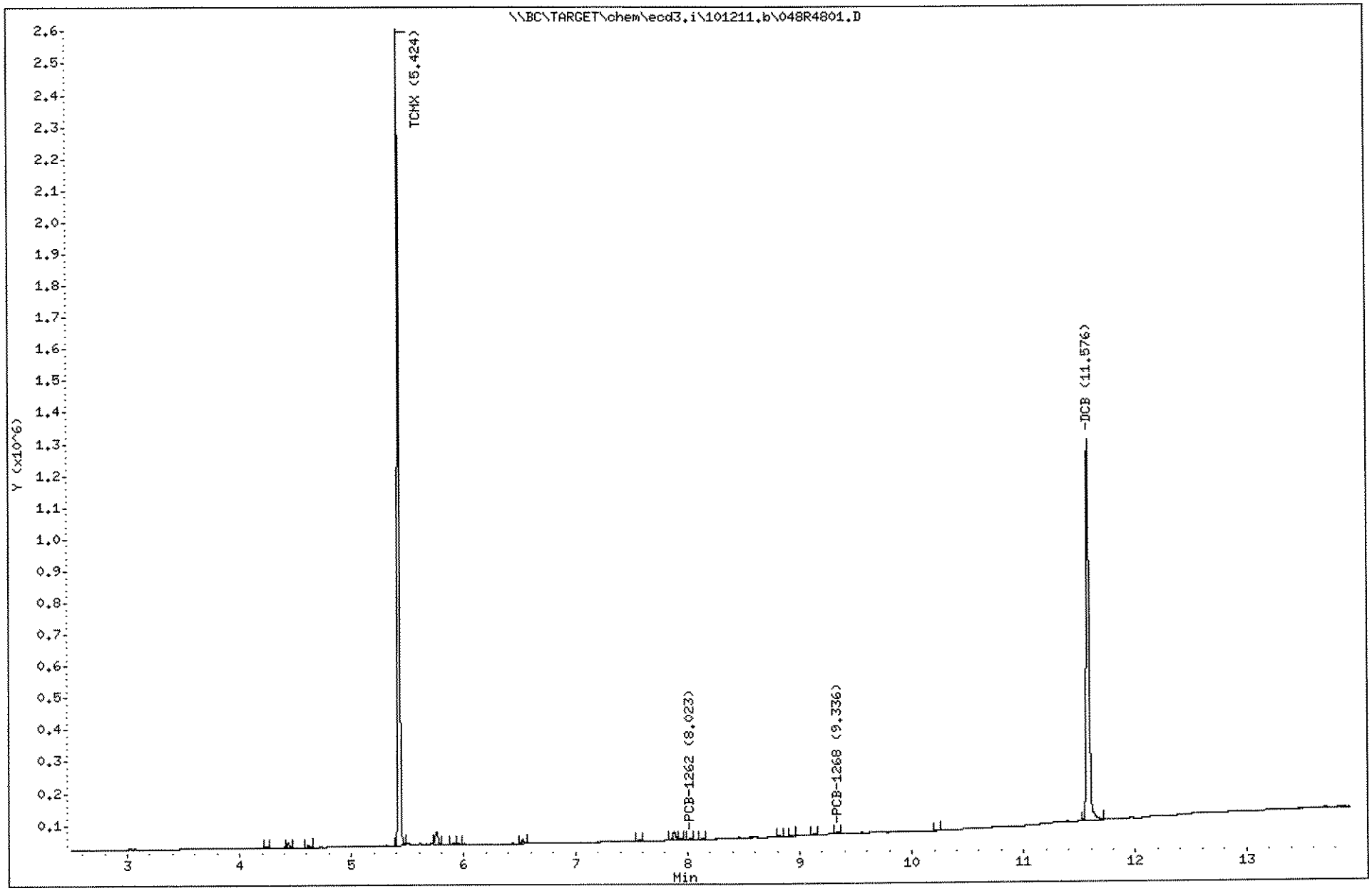
Sample Info: 1I29016-BLK1;CuA

Column phase: ZB MR-2

Instrument: ecd3.i

Operator: EM

Column diameter: 0.32



1502

1109191

J.H. 10.14.11

Empirical Laboratories, LLC

Sample #1 : \\BC\TARGET\chem\ecd3.i\101211.b\049F4901.D
Sample #2 : \\BC\TARGET\chem\ecd3.i\101211.b\049R4901.D
Inj Date : 13-OCT-2011 04:16
Sample Info: 1I29016-BS1;CuA
Misc Info : ;;;;;;PCB.sub
Cal Date : 13-OCT-2011 23:05
Operator : EM
Inst ID : ecd3.i
Dil Factor : 1.000000

Method #1 : \\BC\TARGET\chem\ecd3.i\101211.b\8081_82F.m
Method #2 : \\BC\TARGET\chem\ecd3.i\101211.b\8081_82R.m
Sub List #1 : PCB.sub
Sub List #2 : PCB.sub
Col #1 Phase : ZB MR-1
Col #2 Phase : ZB MR-2

Compound	RT#1	RT#2	Resp#1	Resp#2	Conc#1	Conc#2	Target Range	Ratio
PCB-1016	7.504	6.684	431059	470777	250.7	386.4	80.00- 120.00	100.00
	6.938	5.852	210353	167080	250.1		35.61- 53.41	48.80
	7.161	6.405	208951	255600	256.9	372.4	34.97- 52.46	48.47
	7.479	6.664	310717	360872	252.1	379.3	52.11- 78.17	72.08
	7.578	6.892	252364	244111		377.5	35.03- 52.55	51.85
	7.694	6.990	206871	255821	250.3	383.2	34.84- 52.26	47.99
		Average of Peak Amounts =			252.0	379.8		
PCB-1260	10.953	9.832	4023931	3604492	979.9	1444	80.00- 120.00	100.00
	9.464	8.714	1868415	2291222		1491	47.29- 70.93	63.57
	9.798	8.907	2347418	2115981	1058	1482	42.70- 64.05	58.34
	10.158	9.132	2792315	2481039	1144	1636	46.98- 70.47	69.39
	10.261	9.182	1591262	1758782	906.3		33.30- 49.95	39.54
	10.549	9.515	1803774	1474098		1330	33.64- 50.45	40.90
	11.321	10.282	2419961	2513484			53.89- 80.83	69.73
	12.071	10.934	921232	747426	852.7		20.30- 30.45	22.89
		Average of Peak Amounts =			988.2	1477		
TCMX	6.129	5.425	3556239	3464044	94.39	93.96		100.00(R)
DCB	12.709	11.579	3517582	2578945	94.00	97.82		100.00(R)

QC Flag Legend

R - Spike/Surrogate failed recovery limits.

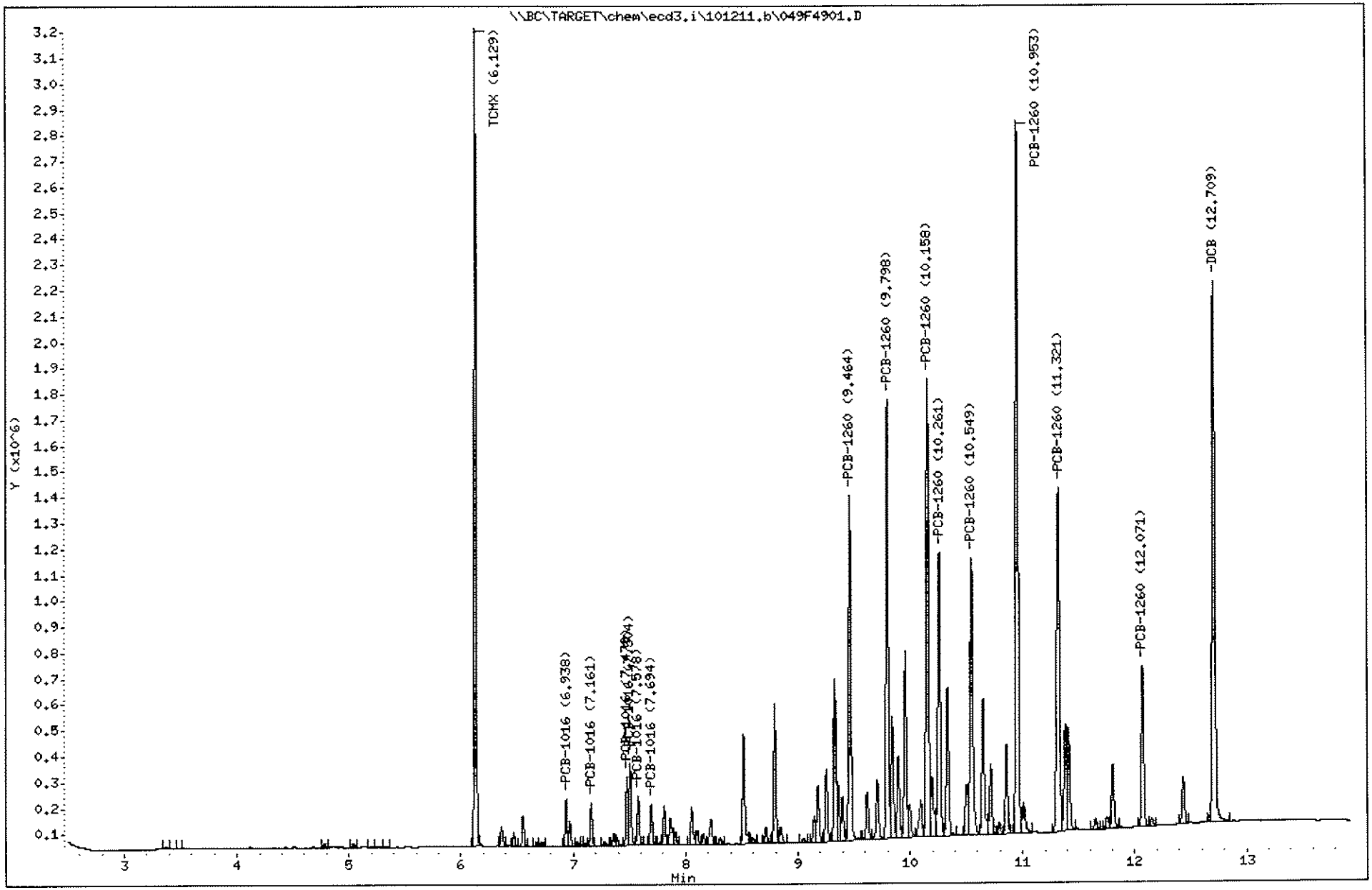
10/16/11

Data File: \\BC\TARGET\chem\ecd3.i\101211.b\049F4901.D
Date : 13-OCT-2011 04:16
Client ID:
Sample Info: 1I29016-BS1;CuA

Instrument: ecd3.i

Operator: EM
Column diameter: 0.32

Column phase: ZB MR-1



1504

1109191

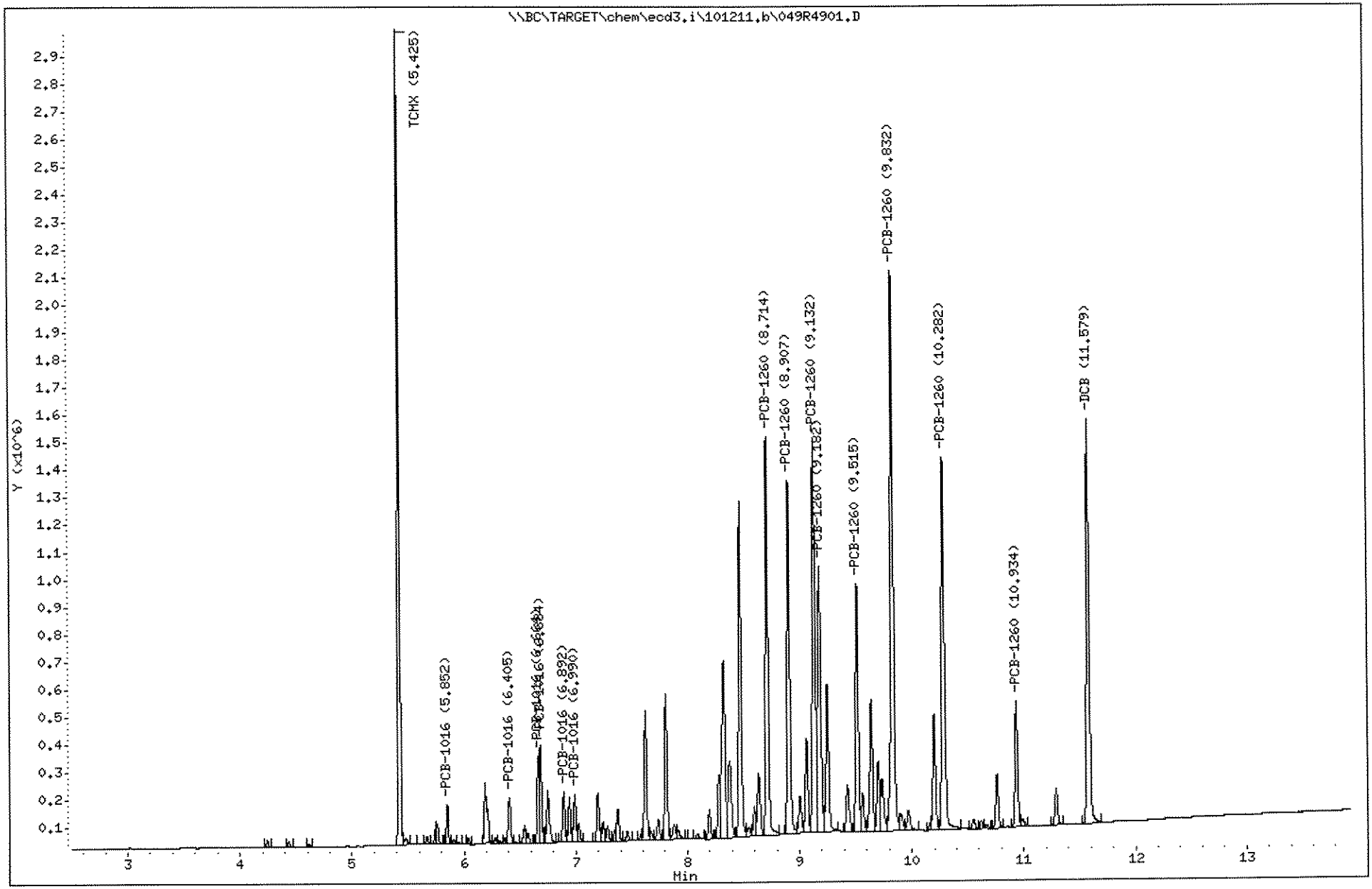
Data File: \\BC\TARGET\chem\ecd3.i\101211.b\049R4901.D
Date : 13-OCT-2011 04:16
Client ID:
Sample Info: 1I29016-BS1;CuA

Instrument: ecd3.i

Operator: EM

Column phase: ZB MR-2

Column diameter: 0.32



1505

1109191

J.H. 10.14.11

Empirical Laboratories, LLC

Sample #1 : \\BC\TARGET\chem\ecd3.i\101211.b\050F5001.D
Sample #2 : \\BC\TARGET\chem\ecd3.i\101211.b\050R5001.D
Inj Date : 13-OCT-2011 04:35
Sample Info: 1109191-01;CuA
Misc Info : ;;;;;;PCB.sub
Cal Date : 13-OCT-2011 23:05
Operator : EM
Inst ID : ecd3.i
Dil Factor : 1.000000

Method #1 : \\BC\TARGET\chem\ecd3.i\101211.b\8081_82F.m
Method #2 : \\BC\TARGET\chem\ecd3.i\101211.b\8081_82R.m
Sub List #1 : PCB.sub
Sub List #2 : PCB.sub
Col #1 Phase : ZB MR-1
Col #2 Phase : ZB MR-2

Compound	RT#1	RT#2	Resp#1	Resp#2	Conc#1	Conc#2	Target Range	Ratio
TCMX	6.129	5.425	3167653	3070531	84.08	83.28		100.00(R)
DCB	12.709	11.577	2854242	2128409	76.27	80.51		100.00(R)

QC Flag Legend

R - Spike/Surrogate failed recovery limits.

10/16/11

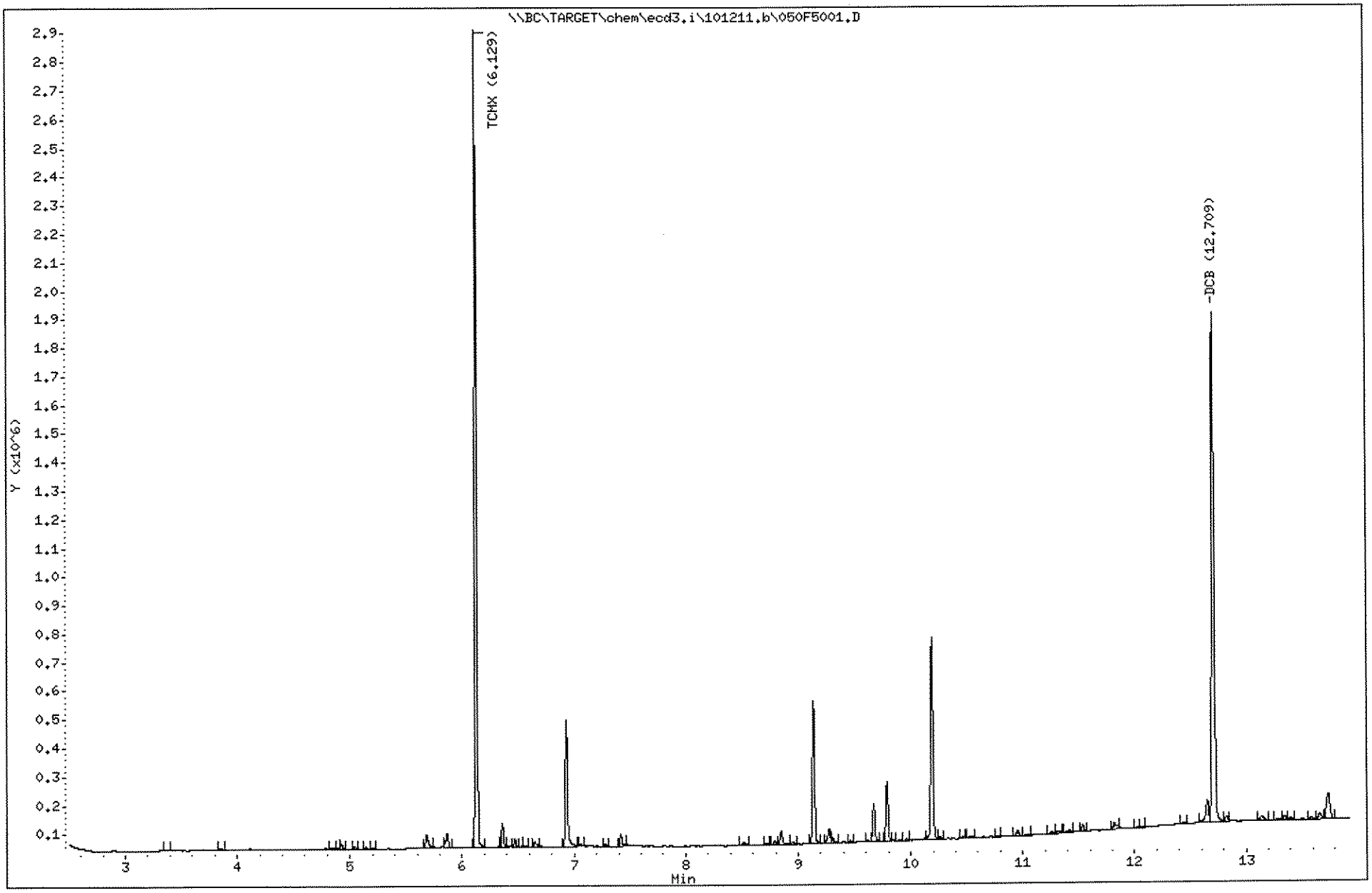
Data File: \\BC\TARGET\chem\ecd3.i\101211.b\050F5001.D
Date : 13-OCT-2011 04:35
Client ID: FLC-4-SS01-0006-092
Sample Info: 1109191-01;CuA

Instrument: ecd3.i

Operator: EM

Column phase: ZB MR-1

Column diameter: 0.32



1507

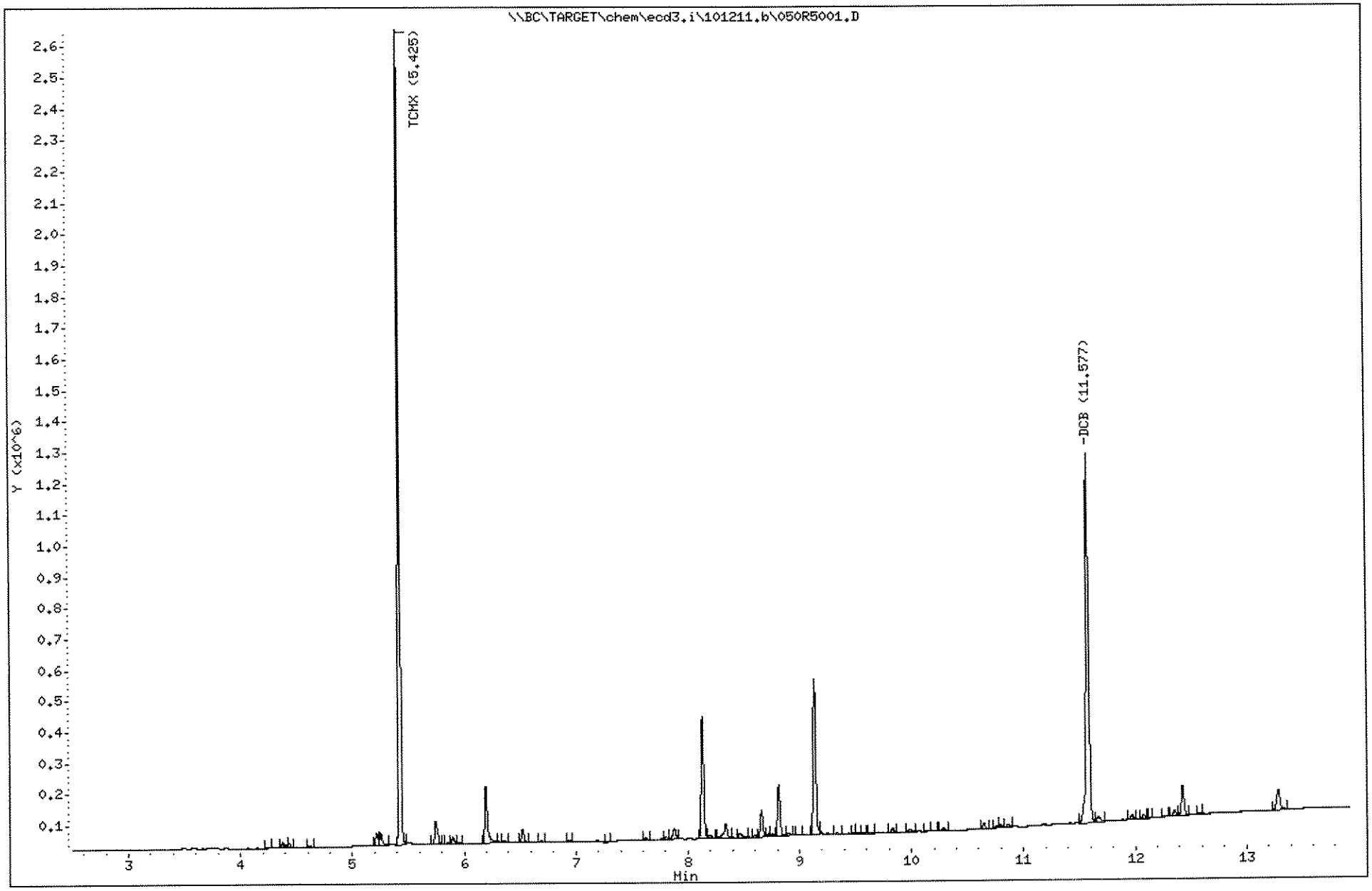
1109191

Data File: \\BC\TARGET\chem\ecd3.i\101211.b\050R5001.D
Date : 13-OCT-2011 04:35
Client ID: FLC-4-SS01-0006-092
Sample Info: 1109191-01;CuA

Instrument: ecd3.i

Operator: EM
Column diameter: 0.32

Column phase: ZB MR-2



1508

1109191

J.H. 10.14.11

Empirical Laboratories, LLC

SW-846 METHODS 8081A/8082

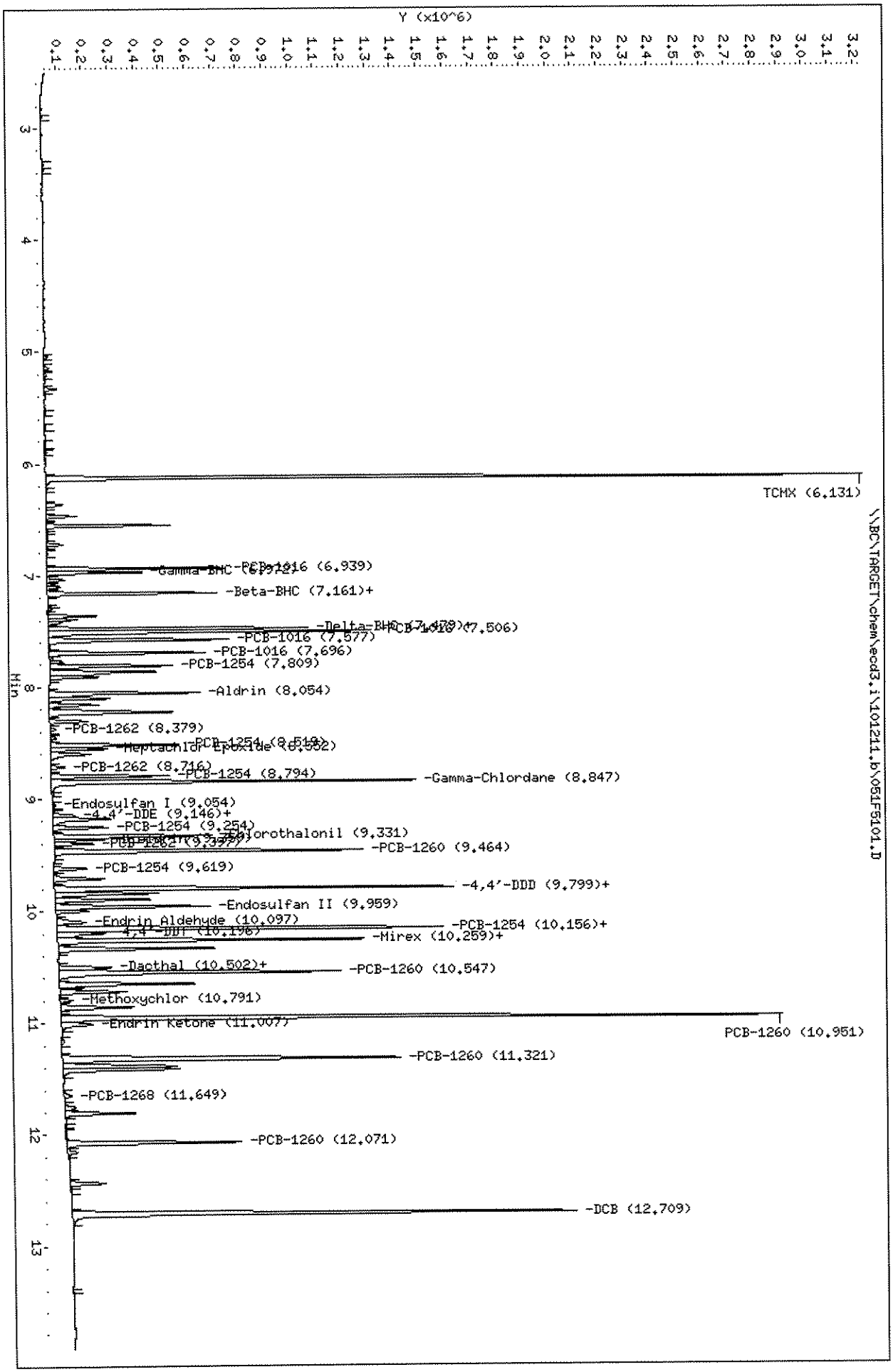
Data file : \\BC\TARGET\chem\ecd3.i\101211.b\051F5101.D
Lab Smp Id: SEQ-CCV7
Inj Date : 13-OCT-2011 04:53
Operator : EM Inst ID: ecd3.i
Smp Info : SEQ-CCV7
Misc Info : ;;;;;;1660D.sub
Comment :
Method : \\BC\TARGET\chem\ecd3.i\101211.b\8081_82F.m
Meth Date : 13-Oct-2011 23:12 jeh Quant Type: ESTD
Cal Date : 10-AUG-2011 19:35 Cal File: 002F0101.D
Als bottle: 51 Continuing Calibration Sample
Dil Factor: 1.00000
Integrator: Falcon Compound Sublist: 1660d.sub
Target Version: 4.04 Sample Matrix: None
Processing Host: NSH-LAPTOP1

RT	EXP RT	DLT RT	RESPONSE	AMOUNTS CAL-AMT (ng/mL)	AMOUNTS ON-COL (ng/mL)	TARGET RANGE	RATIO
29 PCB-1016					CAS #: 12674-11-2		
7.505	7.502	(0.003)	1822142	1000.00 X	1060	80.00- 120.00	100.00
6.939	6.935	(0.004)	824253	1000.00	980.0	36.19- 54.28	45.24
7.160	7.159	(0.001)	807112	1000.00	992.5	35.44- 53.15	44.29
7.479	7.477	(0.002)	1206740	1000.00	979.0	52.98- 79.47	66.23
7.577	7.575	(0.002)	995654			43.71- 65.57	54.64
7.695	7.694	(0.001)	800870	1000.00	969.2	35.16- 52.74	43.95
		Average of Peak Amounts =			996.1		
35 PCB-1260					CAS #: 11096-82-5		
10.950	10.949	(0.001)	4023495	1000.00	979.8	80.00- 120.00	100.00
9.464	9.464	(0.000)	1703843			33.88- 50.82	42.35
9.799	9.797	(0.002)	2192312	1000.00	987.7	43.59- 65.39	54.49
10.155	10.156	(-0.001)	2399419	1000.00	982.7	47.71- 71.56	59.64
10.259	10.259	(0.000)	* 1690018	1000.00	962.5	33.60- 50.40	42.00
10.547	10.546	(0.001)	1772609			35.25- 52.87	44.06
11.320	11.317	(0.003)	2443493			48.58- 72.88	60.73
12.070	12.069	(0.001)	1075086	1000.00	995.1	21.38- 32.06	26.72
		Average of Peak Amounts =			981.6		
$ 38 TCMX					CAS #: 877-09-8		
6.130	6.129	(0.001)	3595885	100.000	95.45		
$ 39 DCB					CAS #: 2051-24-3		
12.709	12.707	(0.002)	3261625	100.000	87.16		

10/16/11

Data File: \\BC\TARGET\chem\ecd3.i\101211.b\051F5101.D
Date : 13-OCT-2011 04:53
Client ID:
Sample Info: SEQ-CCV7
Column phase: ZB MR-1

Instrument: ecd3.i
Operator: EH
Column diameter: 0.32



10.14.11

Empirical Laboratories, LLC

SW-846 METHODS 8081A/8082

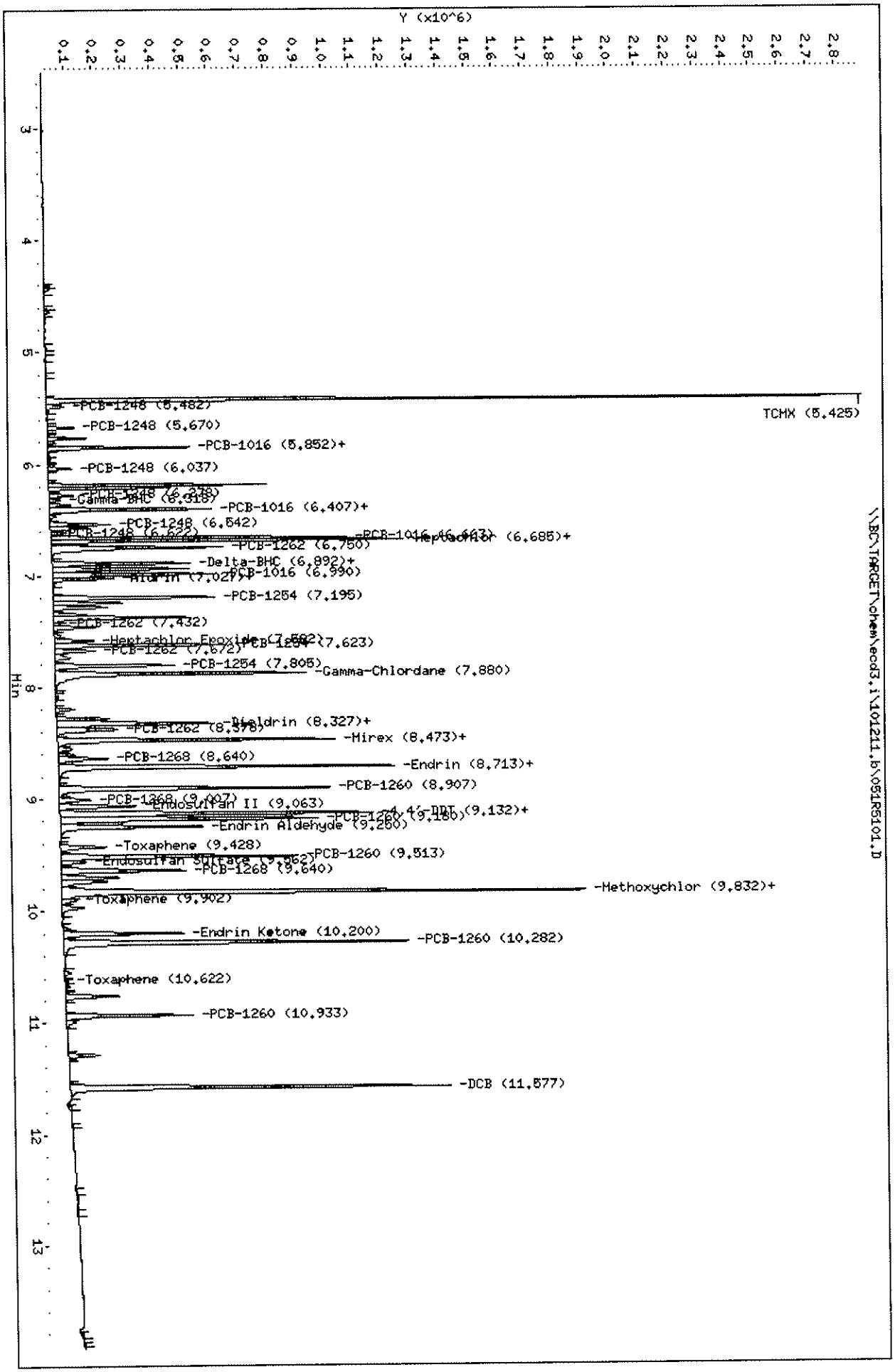
Data file : \\BC\TARGET\chem\ecd3.i\101211.b\051R5101.D
Lab Smp Id: SEQ-CCV7
Inj Date : 13-OCT-2011 04:53
Operator : EM Inst ID: ecd3.i
Smp Info : SEQ-CCV7
Misc Info : ;;;;;;1660D.sub
Comment :
Method : \\BC\TARGET\chem\ecd3.i\101211.b\8081_82R.m
Meth Date : 13-Oct-2011 23:13 jeh Quant Type: ESTD
Cal Date : 10-AUG-2011 19:35 Cal File: 002R0101.D
Als bottle: 51 Continuing Calibration Sample
Dil Factor: 1.00000
Integrator: Falcon Compound Sublist: 1660d.sub
Target Version: 4.04 Sample Matrix: None
Processing Host: NSH-LAPTOP1

RT	EXP RT	DLT RT	RESPONSE	AMOUNTS CAL-AMT (ng/mL)	AMOUNTS ON-COL (ng/mL)	TARGET RANGE	RATIO
29 PCB-1016 [2C]					CAS #: 12674-11-2		
6.685	6.681	(0.004)	1629906	1000.00	1338	80.00- 120.00	100.00
5.851	5.848	(0.003)	606406			29.76- 44.65	37.20
6.406	6.403	(0.003)	878269	1000.00	1280	43.11- 64.66	53.88
6.663	6.660	(0.003)	1201868	1000.00	1263	58.99- 88.49	73.74
6.891	6.888	(0.003)	693713	1000.00	1073	34.05- 51.07	42.56
6.990	6.986	(0.004)	863235	1000.00	1293	42.37- 63.55	52.96
		Average of Peak Amounts =			1249		
35 PCB-1260 [2C]					CAS #: 11096-82-5		
9.831	9.826	(0.005)	3216514	1000.00	1288	80.00- 120.00	100.00
8.713	8.710	(0.003)	1879039	1000.00	1222	46.73- 70.10	58.42
8.906	8.903	(0.003)	1551667	1000.00	1087	38.59- 57.89	48.24
9.131	9.126	(0.005)	* 1921809	1000.00	1267	47.80- 71.70	59.75
9.180	9.176	(0.004)	1585739			39.44- 59.16	49.30
9.513	9.510	(0.003)	1365246	1000.00	1232	33.96- 50.93	42.44
10.281	10.278	(0.003)	2162486			53.78- 80.68	67.23
10.933	10.930	(0.003)	696854			17.33- 26.00	21.66
		Average of Peak Amounts =			1219		
$ 38 TCMX [2C]					CAS #: 877-09-8		
5.425	5.421	(0.004)	3365717	100.000	91.29		
$ 39 DCB [2C]					CAS #: 2051-24-3		
11.576	11.573	(0.003)	2274620	100.000	86.13		

10/16/11

Data File: \\BC\TARGET\chem\ecd3.i\101211.b\051R5101.D
Date : 13-OCT-2011 04:53
Client ID:
Sample Info: SEQ-CCV7
Column phase: ZB MR-2

Instrument: ecd3.i
Operator: EM
Column diameter: 0.32



10.14.11

Empirical Laboratories, LLC

SW-846 METHODS 8081A/8082

Data file : \\BC\TARGET\chem\ecd3.i\101211.b\052F5201.D
Lab Smp Id: SEQ-CCV8
Inj Date : 13-OCT-2011 05:12
Operator : EM Inst ID: ecd3.i
Smp Info : SEQ-CCV8
Misc Info : ;;;;;;AR1254.sub
Comment :
Method : \\BC\TARGET\chem\ecd3.i\101211.b\8081_82F.m
Meth Date : 13-Oct-2011 23:13 jeh Quant Type: ESTD
Cal Date : 10-AUG-2011 19:35 Cal File: 002F0101.D
Als bottle: 52 Continuing Calibration Sample
Dil Factor: 1.00000
Integrator: Falcon Compound Sublist: AR1254.sub
Target Version: 4.04 Sample Matrix: None
Processing Host: NSH-LAPTOP1

RT	EXP RT	DLT RT	RESPONSE	AMOUNTS CAL-AMT (ng/mL)	AMOUNTS ON-COL (ng/mL)	TARGET RANGE	RATIO
34 PCB-1254					CAS #: 11097-69-1		
9.253	9.251	(0.002)	2047500	1000.00	936.1	80.00- 120.00	100.00
7.808	7.808	(0.000)	* 681667	1000.00	932.2	26.63- 39.95	33.29
8.518	8.516	(0.002)	1231965			48.14- 72.20	60.17
8.793	8.793	(0.000)	1856125	1000.00	884.4	72.52- 108.78	90.65
9.618	9.618	(0.000)	1586804	1000.00	931.0	62.00- 93.00	77.50
10.158	10.155	(0.003)	1705352	1000.00	939.6	66.63- 99.95	83.29
		Average of Peak Amounts =			924.6		

10/16/11

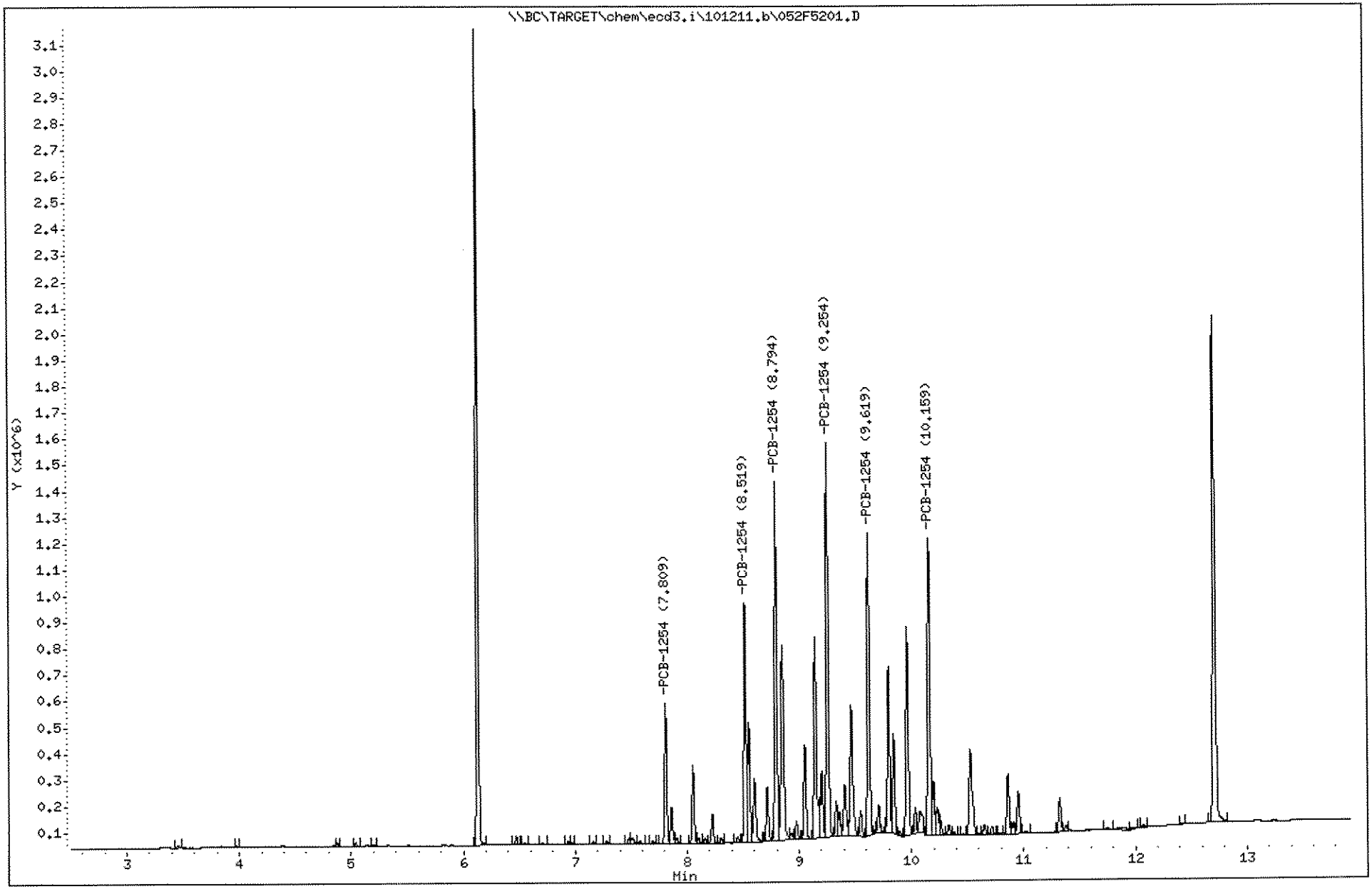
Data File: \\BC\TARGET\chem\ecd3.i\101211.b\052F5201.D
Date : 13-OCT-2011 05:12
Client ID:
Sample Info: SEQ-CCV8

Instrument: ecd3.i

Operator: EM

Column phase: ZB MR-1

Column diameter: 0.32



1514

1109191

10.14.11

Empirical Laboratories, LLC

SW-846 METHODS 8081A/8082

Data file : \\BC\TARGET\chem\ecd3.i\101211.b\052R5201.D
Lab Smp Id: SEQ-CCV8
Inj Date : 13-OCT-2011 05:12
Operator : EM Inst ID: ecd3.i
Smp Info : SEQ-CCV8
Misc Info : ;;;;;;AR1254.sub
Comment :
Method : \\BC\TARGET\chem\ecd3.i\101211.b\8081_82R.m
Meth Date : 13-Oct-2011 23:13 jeh Quant Type: ESTD
Cal Date : 10-AUG-2011 19:35 Cal File: 002R0101.D
Als bottle: 52 Continuing Calibration Sample
Dil Factor: 1.00000
Integrator: Falcon Compound Sublist: AR1254.sub
Target Version: 4.04 Sample Matrix: None
Processing Host: NSH-LAPTOP1

RT	EXP RT	DLT RT	RESPONSE	AMOUNTS CAL-AMT (ng/mL)	AMOUNTS ON-COL (ng/mL)	TARGET RANGE	RATIO
34 PCB-1254 [2C]					CAS #: 11097-69-1		
8.309	8.306	(0.003)	2346771	1000.00 X	1326	80.00- 120.00	100.00
7.194	7.192	(0.002)	457774			15.61- 23.41	19.51
7.623	7.621	(0.002)	* 1863464	1000.00	1316	63.52- 95.29	79.41
7.806	7.802	(0.004)	1615735	1000.00	1330	55.08- 82.62	68.85
8.474	8.471	(0.003)	1196004	1000.00	1312	40.77- 61.16	50.96
9.133	9.129	(0.004)	1965292	1000.00	1305	67.00- 100.49	83.74
		Average of Peak Amounts =			1318		

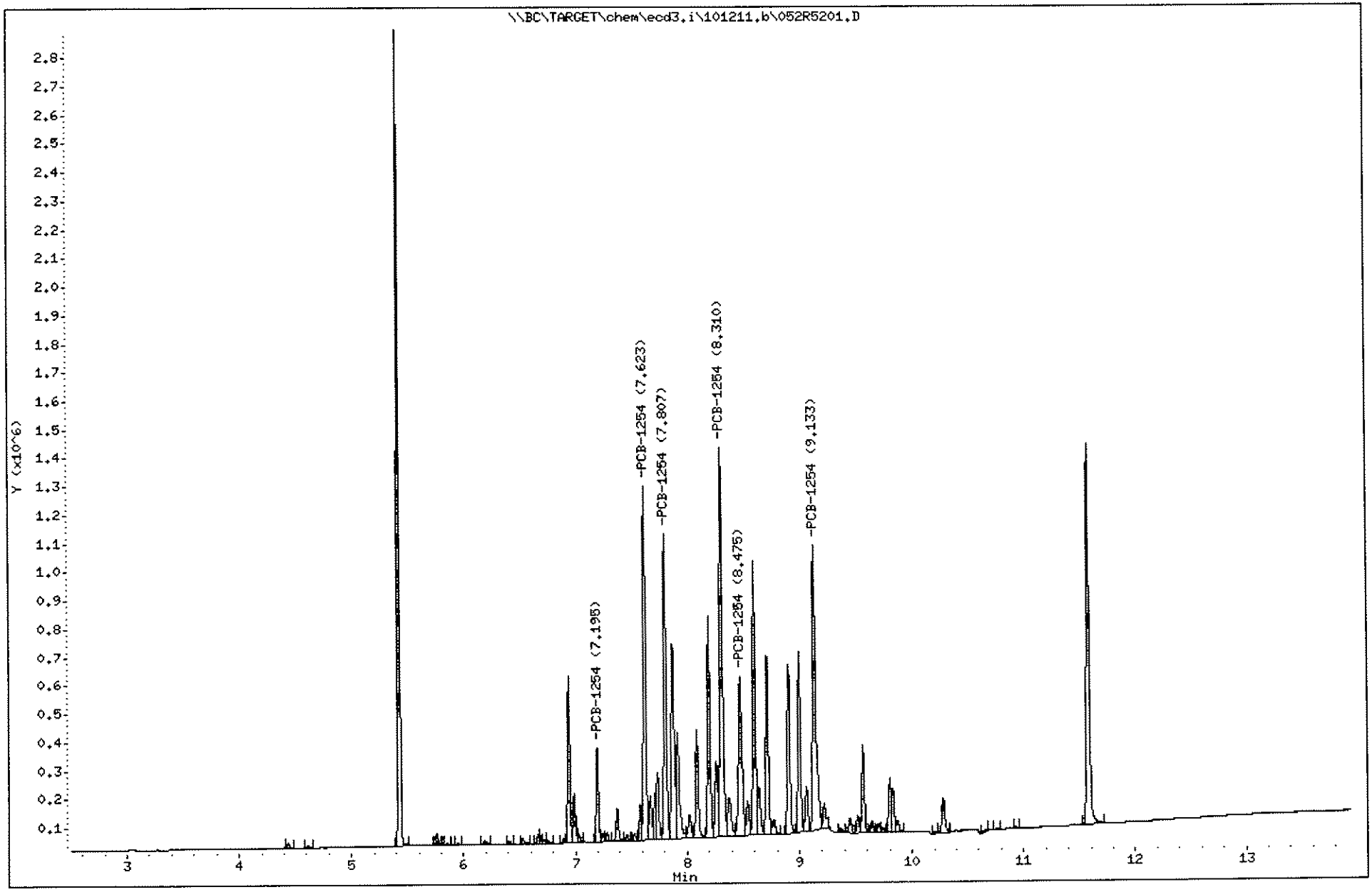
10/16/11

Data File: \\BC\TARGET\chem\ecd3.i\101211.b\052R5201.D
Date : 13-OCT-2011 05:12
Client ID:
Sample Info: SEQ-CCV8

Instrument: ecd3.i

Operator: EH
Column diameter: 0.32

Column phase: ZB MR-2



1516

1109191

10.14.11

Empirical Laboratories, LLC

Sample #1 : \\BC\TARGET\chem\ecd3.i\101211.b\053F5301.D
Sample #2 : \\BC\TARGET\chem\ecd3.i\101211.b\053R5301.D
Inj Date : 13-OCT-2011 05:31
Sample Info: 1109191-02;CuA
Misc Info : ;;;;;;PCB.sub
Cal Date : 13-OCT-2011 23:13
Operator : EM
Inst ID : ecd3.i
Dil Factor : 1.000000

Method #1 : \\BC\TARGET\chem\ecd3.i\101211.b\8081_82F.m
Method #2 : \\BC\TARGET\chem\ecd3.i\101211.b\8081_82R.m
Sub List #1 : PCB.sub
Sub List #2 : PCB.sub
Col #1 Phase : ZB MR-1
Col #2 Phase : ZB MR-2

Compound	RT#1	RT#2	Resp#1	Resp#2	Conc#1	Conc#2	Target Range	Ratio
TCMX	6.130	5.426	2594438	2639983	68.86	71.60		100.00(R)
DCB	12.708	11.576	2376510	1838401	63.51	69.36		100.00(R)

QC Flag Legend

R - Spike/Surrogate failed recovery limits.

10/16/11

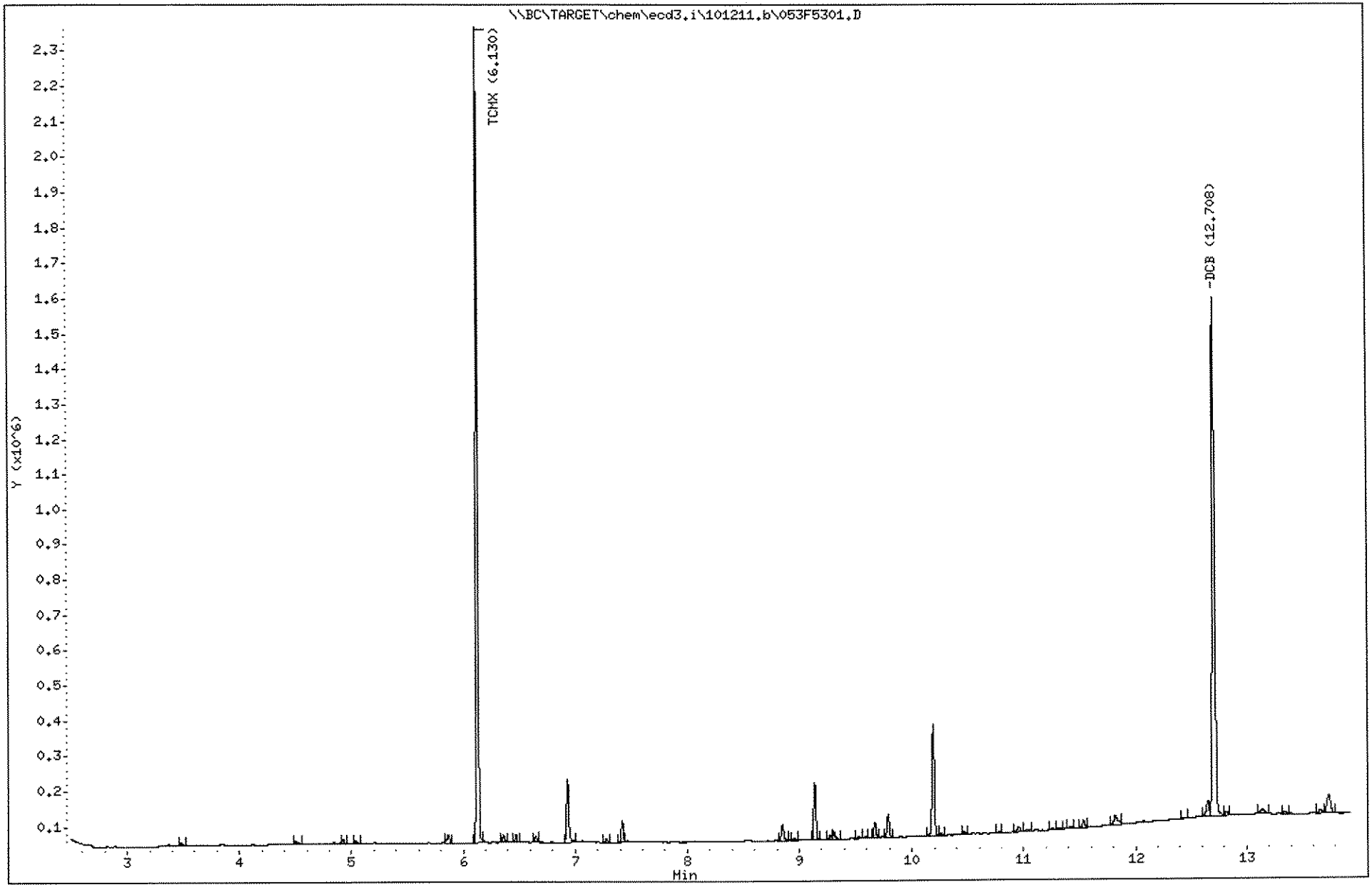
Data File: \\BC\TARGET\chem\ecd3.i\101211.b\053F5301.D
Date : 13-OCT-2011 05:31
Client ID: FLC-4-SS01-0624-092
Sample Info: 1109191-02;CuA

Instrument: ecd3.i

Operator: EM

Column phase: ZB MR-1

Column diameter: 0.32



1518

1109191

Data File: \\BC\TARGET\chem\ecd3.i\101211.b\053R5301.D

Date : 13-OCT-2011 05:31

Client ID: FLC-4-SS01-0624-092

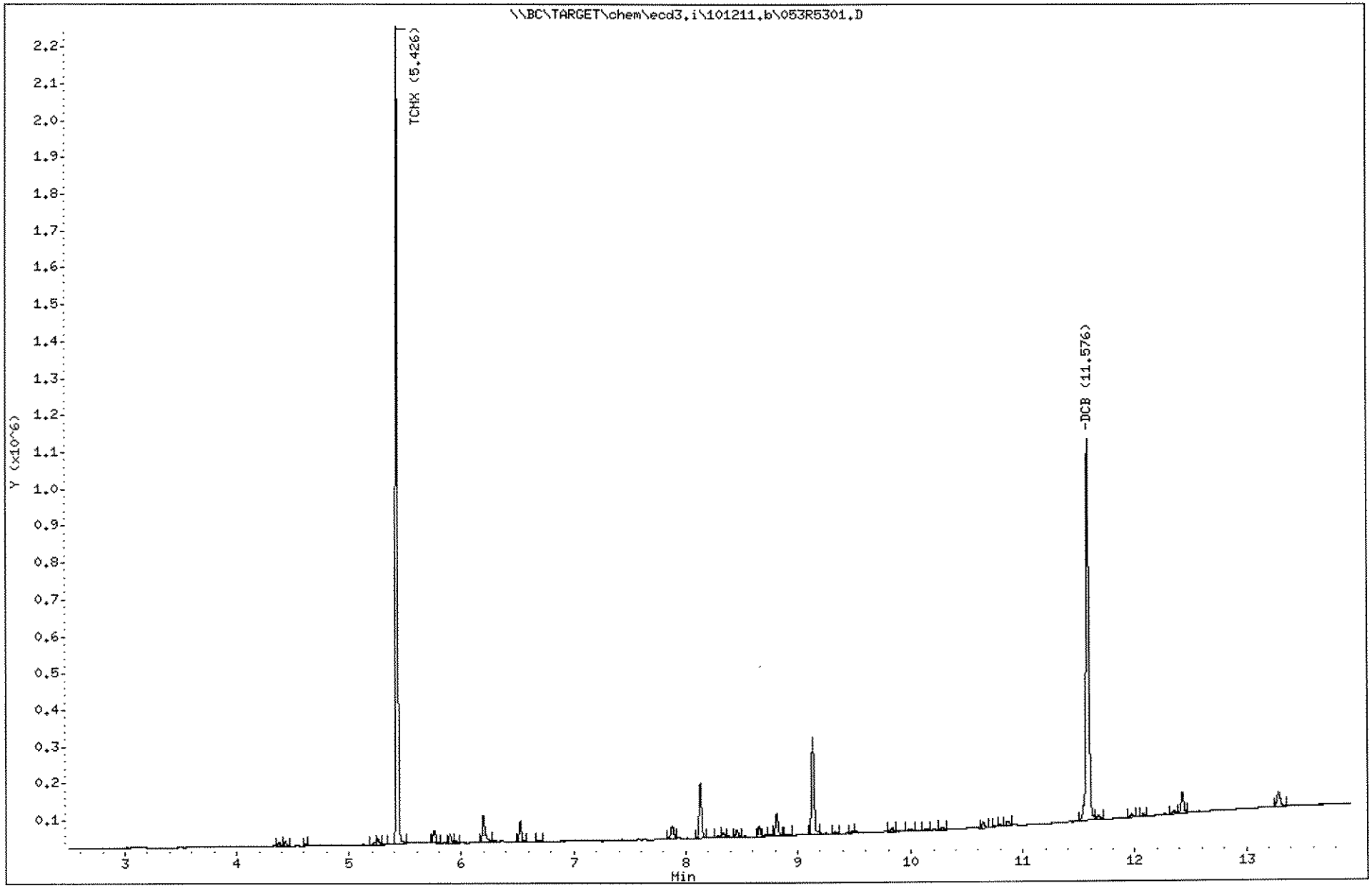
Sample Info: 1109191-02;CuA

Column phase: ZB MR-2

Instrument: ecd3.i

Operator: EM

Column diameter: 0.32



1519

1109191

10.14.11

Empirical Laboratories, LLC

Sample #1 : \\BC\TARGET\chem\ecd3.i\101211.b\054F5401.D
Sample #2 : \\BC\TARGET\chem\ecd3.i\101211.b\054R5401.D
Inj Date : 13-OCT-2011 05:50
Sample Info: 1I29016-MS1;CuA
Misc Info : ;;;;;;PCB.sub
Cal Date : 13-OCT-2011 23:13
Operator : EM
Inst ID : ecd3.i
Dil Factor : 1.000000

Method #1 : \\BC\TARGET\chem\ecd3.i\101211.b\8081_82F.m
Method #2 : \\BC\TARGET\chem\ecd3.i\101211.b\8081_82R.m
Sub List #1 : PCB.sub
Sub List #2 : PCB.sub
Col #1 Phase : ZB MR-1
Col #2 Phase : ZB MR-2

Compound	RT#1	RT#2	Resp#1	Resp#2	Conc#1	Conc#2	Target Range	Ratio
PCB-1016	7.505	6.684	364026	383288	211.7	314.6	80.00- 120.00	100.00
	6.935	5.851	505979	139326	~~601~~.6		36.19- 54.28	139.00
	7.162	6.406	172322	217443	211.9	316.8	35.44- 53.15	47.34
	7.478	6.663	277599	300548	225.2	315.9	52.98- 79.47	76.26
	7.578	6.893	216329	194902		301.4	34.05- 51.07	50.85
	7.695	6.991	177951	211233	215.3	316.4	35.16- 52.74	48.88
		Average of Peak Amounts =			216.0 ~~293~~.1	313.0		
PCB-1260	10.952	9.831	3481089	2950016	847.7	1182	80.00- 120.00	100.00
	9.465	8.716	1576320	1905826		1240	46.73- 70.10	64.60
	9.798	8.908	2141950	1729166	965.0	1211	43.59- 65.39	61.53
	10.158	9.133	2428810	2544044	994.8	~~1677~~	47.71- 71.56	69.77
	10.260	9.183	1387825	1436685	790.4		33.60- 50.40	39.87
	10.548	9.516	1572300	1207144		1089	33.96- 50.93	40.92
	11.322	10.281	2074744	2006182			53.78- 80.68	68.01
	12.072	10.933	782836	619677	724.6		21.38- 32.06	22.49
		Average of Peak Amounts =			864.5	~~1280~~ 1181		
TCMX	6.130	5.426	3085747	3030609	81.90	82.20		100.00(R)
DCB	12.710	11.578	2899349	2187032	77.48	82.76		100.00(R)

QC Flag Legend

R - Spike/Surrogate failed recovery limits.

10/16/11

Data File: \\BC\TARGET\chem\ecd3.i\101211.b\054F5401.D

Date : 13-OCT-2011 05:50

Client ID:

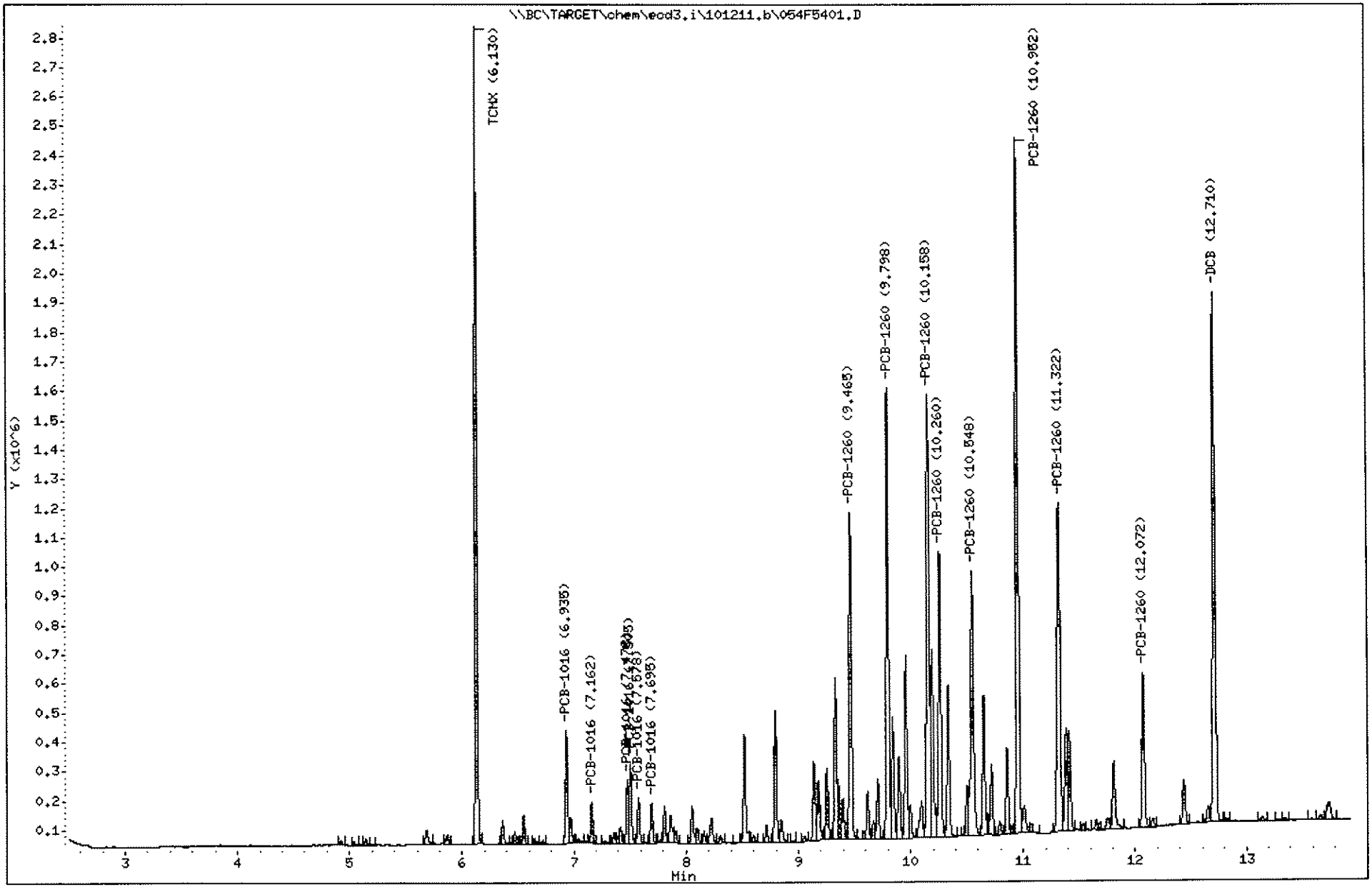
Sample Info: 1I29016-MS1:CuA

Column phase: ZB HR-1

Instrument: ecd3.i

Operator: EM

Column diameter: 0.32



1521

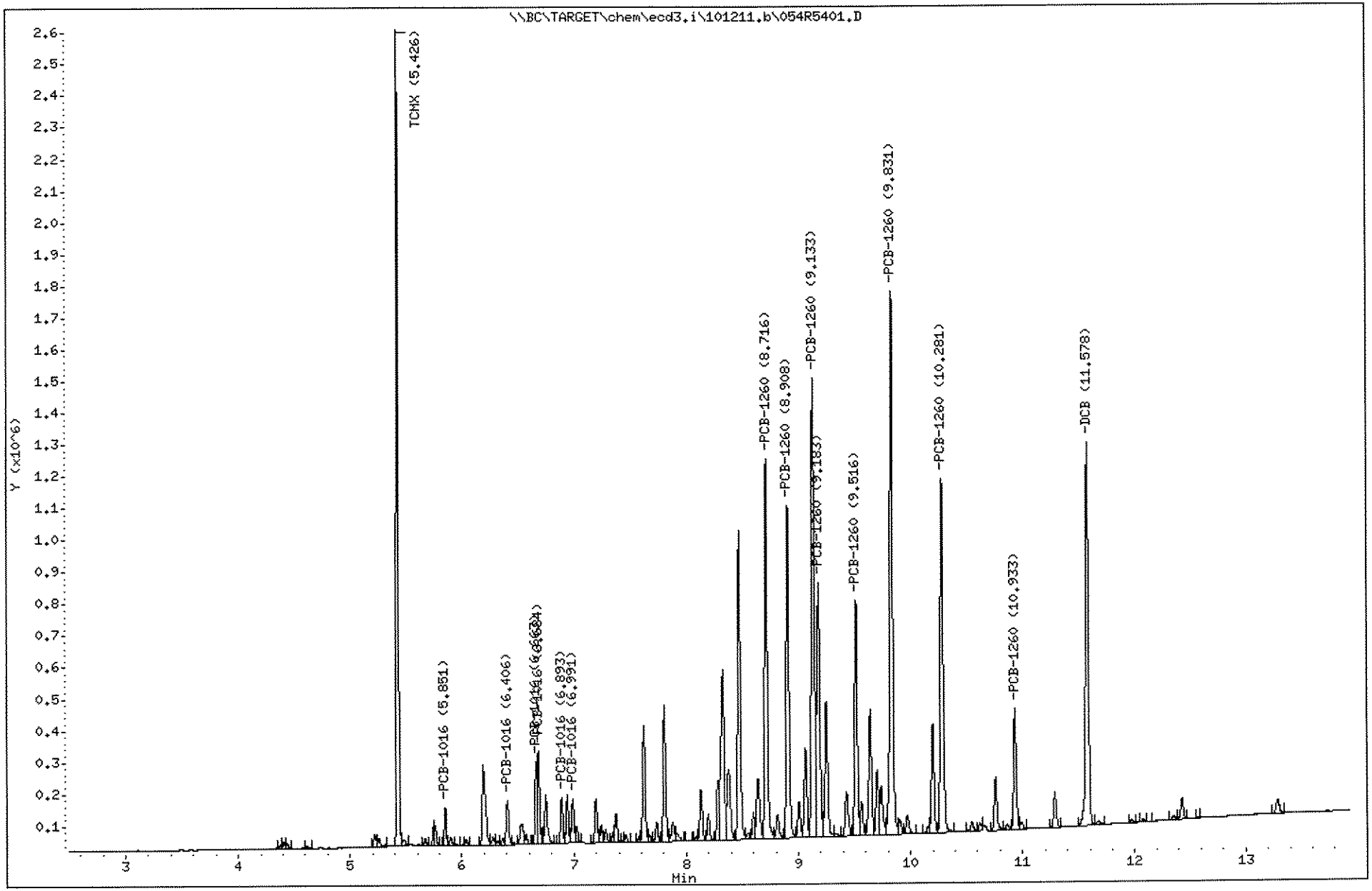
1109191

Data File: \\BC\TARGET\chem\ecd3.i\101211.b\054R5401.D
Date : 13-OCT-2011 05:50
Client ID:
Sample Info: 1I29016-MS1;CuA

Instrument: ecd3.i

Operator: EM
Column diameter: 0.32

Column phase: ZB MR-2



1522

1109191

J.H. 10.14.11

Empirical Laboratories, LLC

Sample #1 : \\BC\TARGET\chem\ecd3.i\101211.b\055F5501.D
Sample #2 : \\BC\TARGET\chem\ecd3.i\101211.b\055R5501.D
Inj Date : 13-OCT-2011 06:09
Sample Info: 1I29016-MSD1;CuA
Misc Info : ;;;;;;PCB.sub
Cal Date : 13-OCT-2011 23:13
Operator : EM
Inst ID : ecd3.i
Dil Factor : 1.000000

Method #1 : \\BC\TARGET\chem\ecd3.i\101211.b\8081_82F.m
Method #2 : \\BC\TARGET\chem\ecd3.i\101211.b\8081_82R.m
Sub List #1 : PCB.sub
Sub List #2 : PCB.sub
Col #1 Phase : ZB MR-1
Col #2 Phase : ZB MR-2

Compound	RT#1	RT#2	Resp#1	Resp#2	Conc#1	Conc#2	Target Range	Ratio
PCB-1016	7.504	6.683	397382	418077	231.1	343.2	80.00- 120.00	100.00
	6.934	5.851	606433	152701	~~721.0~~		36.19- 54.28	152.61
	7.160	6.406	185581	235204	228.2	342.7	35.44- 53.15	46.70
	7.479	6.663	287546	310364	233.3	326.2	52.98- 79.47	72.36
	7.577	6.891	231631	208589		322.6	34.05- 51.07	49.89
	7.695	6.990	190021	225340	230.0	337.5	35.16- 52.74	47.82
		Average of Peak Amounts =			230.7 ~~328.7~~	334.4		
PCB-1260	10.952	9.831	3690353	3066680	898.6	1228	80.00- 120.00	100.00
	9.465	8.715	1679429	1977614		1286	46.73- 70.10	64.49
	9.799	8.908	2226849	1805571	1003	1265	43.59- 65.39	60.34
	10.157	9.131	2562212	2627035	1049	~~1732~~	47.71- 71.56	69.43
	10.262	9.181	1448829	1512802	825.2		33.60- 50.40	39.26
	10.549	9.515	1646673	1251055		1129	33.96- 50.93	40.80
	11.320	10.283	2201612	2093206			53.78- 80.68	68.26
	12.074	10.933	836659	653978	774.4		21.38- 32.06	22.67
		Average of Peak Amounts =			910.0	~~1328~~ 1227		
TCMX	6.129	5.425	3297815	3227502	87.53	87.54		100.00(R)
DCB	12.710	11.578	3119975	2312249	83.38	87.57		100.00(R)

QC Flag Legend

R - Spike/Surrogate failed recovery limits.

10/16/11

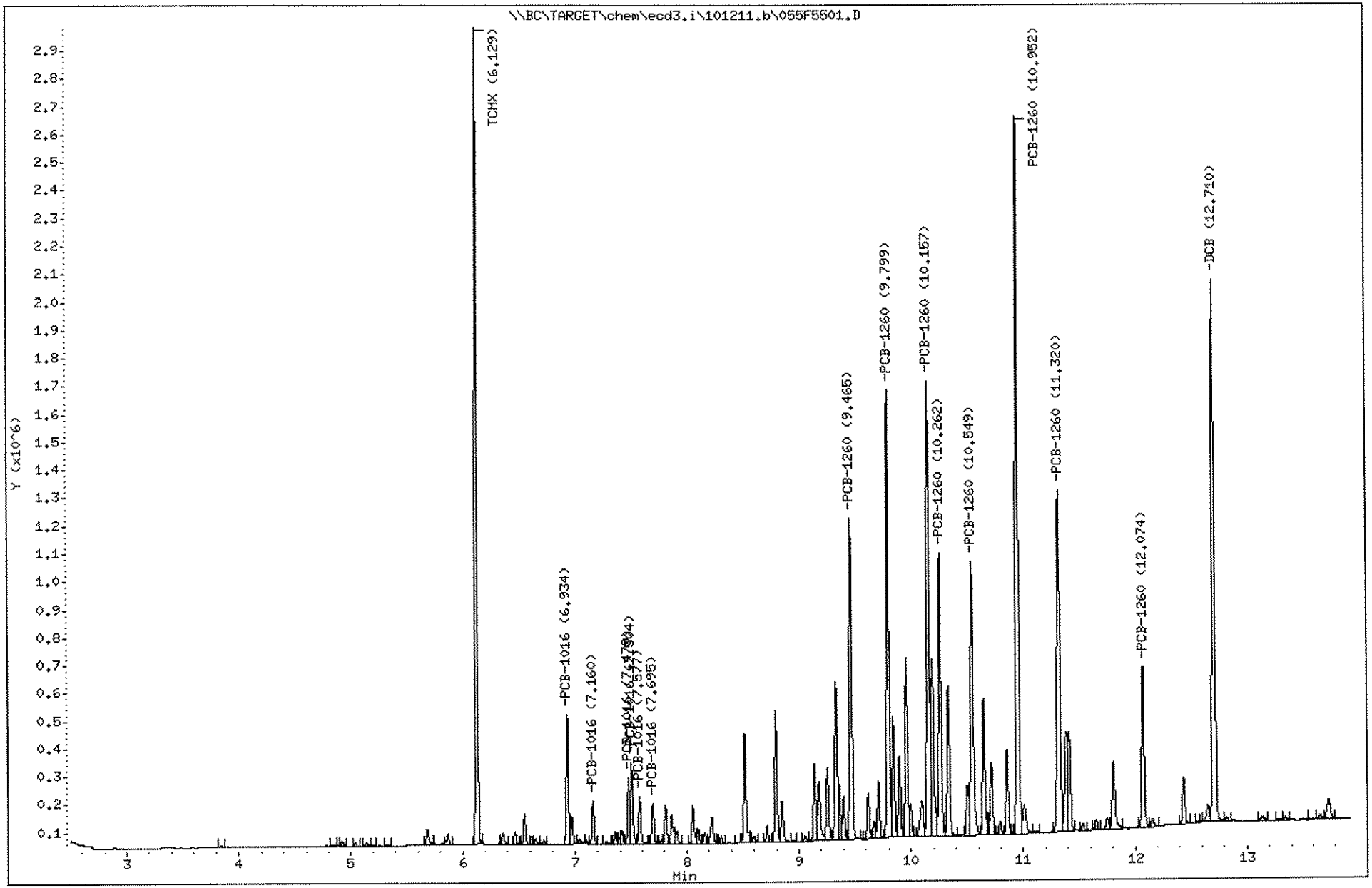
Data File: \\BC\TARGET\chem\ecd3.i\101211.b\055F5501.D
Date : 13-OCT-2011 06:09
Client ID:
Sample Info: 1I29016-MSD1;CuA

Instrument: ecd3.i

Operator: EM

Column phase: ZB MR-1

Column diameter: 0.32



1524

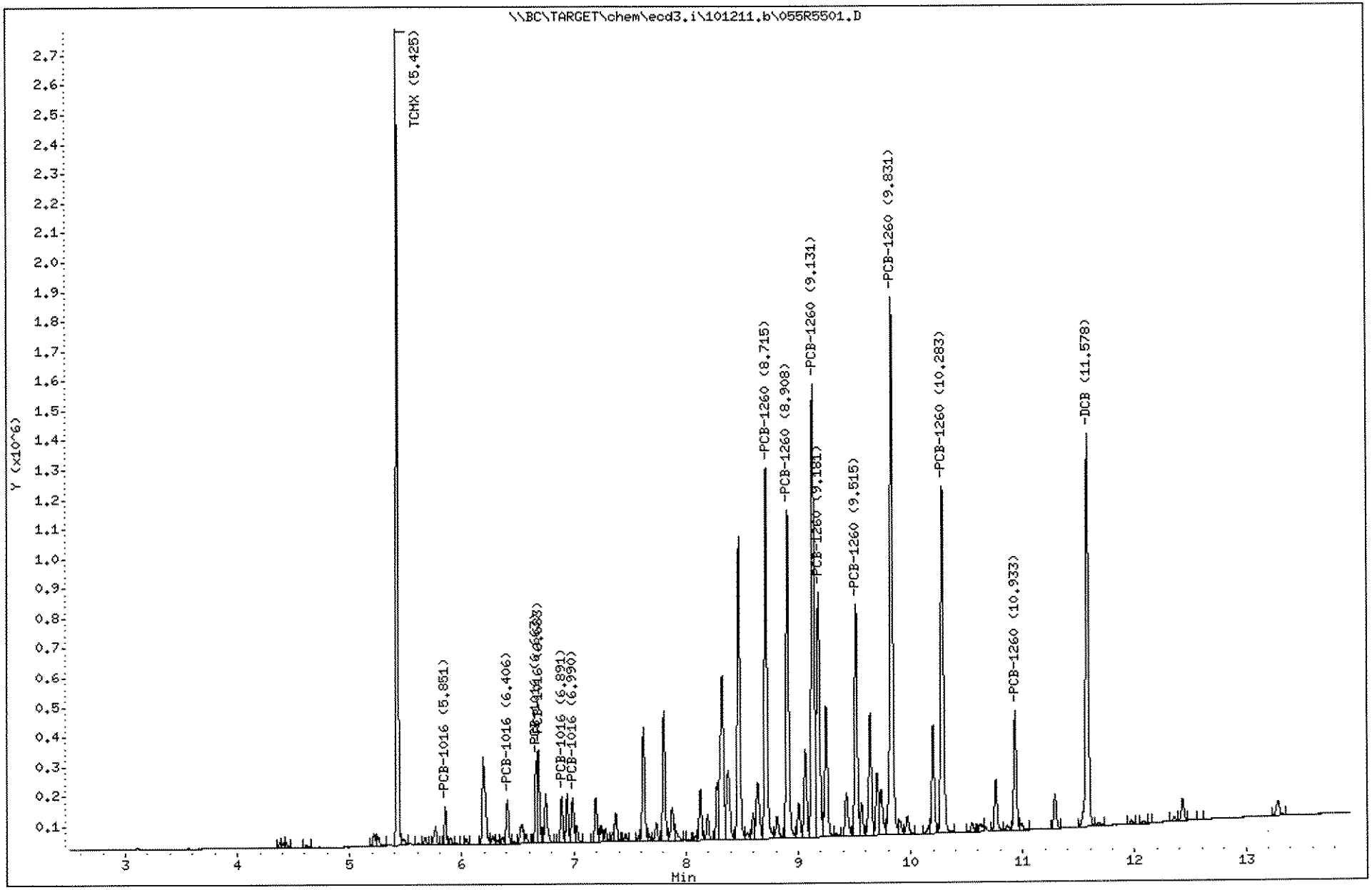
1109191

Data File: \\BC\TARGET\chem\ecd3.i\101211.b\055R5501.D
Date : 13-OCT-2011 06:09
Client ID:
Sample Info: 1I29016-MSD1;CuA

Instrument: ecd3.i

Operator: EM
Column diameter: 0.32

Column phase: ZB MR-2



1525

1109191

10.14.11

Empirical Laboratories, LLC

Sample #1 : \\BC\TARGET\chem\ecd3.i\101211.b\056F5601.D
Sample #2 : \\BC\TARGET\chem\ecd3.i\101211.b\056R5601.D
Inj Date : 13-OCT-2011 06:27
Sample Info: 1109191-03;CuA
Misc Info : ;;;;;;PCB.sub
Cal Date : 13-OCT-2011 23:13
Operator : EM
Inst ID : ecd3.i
Dil Factor : 1.000000

Method #1 : \\BC\TARGET\chem\ecd3.i\101211.b\8081_82F.m
Method #2 : \\BC\TARGET\chem\ecd3.i\101211.b\8081_82R.m
Sub List #1 : PCB.sub
Sub List #2 : PCB.sub
Col #1 Phase : ZB MR-1
Col #2 Phase : ZB MR-2

Compound	RT#1	RT#2	Resp#1	Resp#2	Conc#1	Conc#2	Target Range	Ratio
TCMX	6.129	5.425	2634707	2669054	69.93	72.39		100.00(R)
DCB	12.709	11.579	2419076	1819073	64.64	68.62		100.00(R)

QC Flag Legend

10/16/11

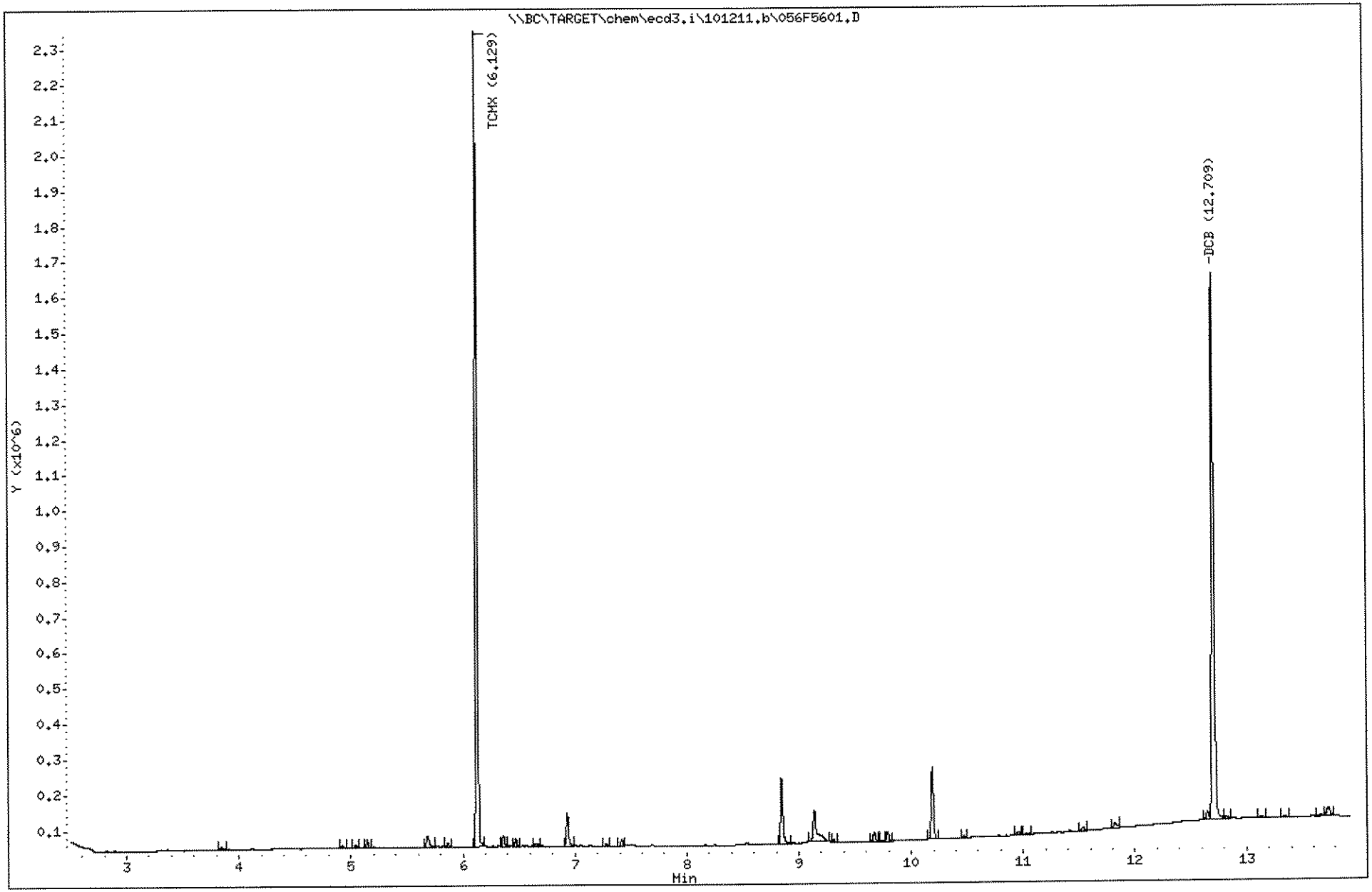
R - Spike/Surrogate failed recovery limits.

Data File: \\BC\TARGET\chem\ecd3.i\101211.b\056F5601.D
Date : 13-OCT-2011 06:27
Client ID: FLC-4-SB01-0204-092
Sample Info: 1109191-03;CuA

Instrument: ecd3.i

Operator: EM
Column diameter: 0.32

Column phase: ZB MR-1



1527

1109191

Data File: \\BC\TARGET\chem\ecd3.i\101211.b\056R5601.D

Date : 13-OCT-2011 06:27

Client ID: FLC-4-SB01-0204-092

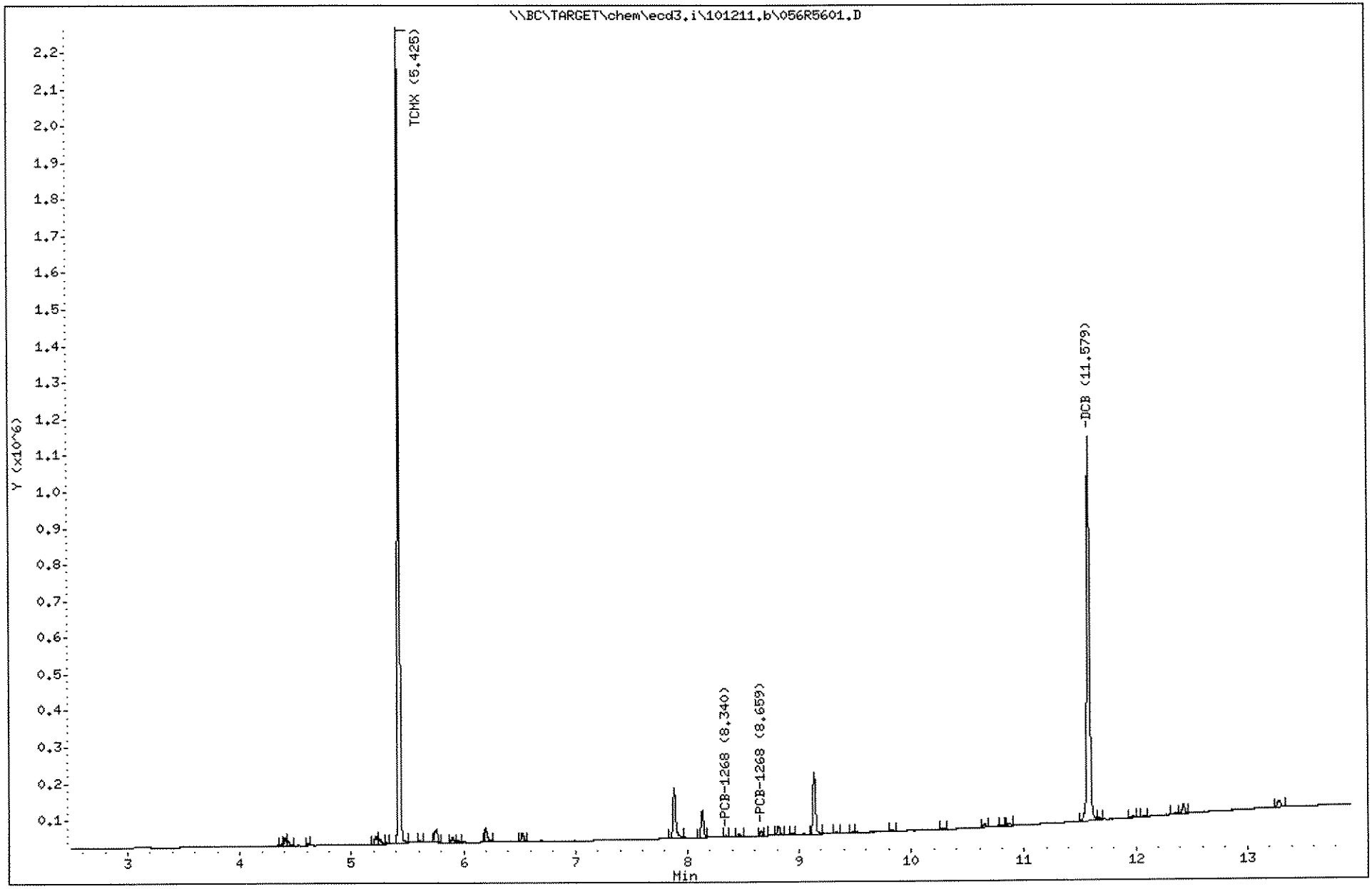
Sample Info: 1109191-03;CuA

Column phase: ZB MR-2

Instrument: ecd3.i

Operator: EM

Column diameter: 0.32



1528

1109191

10.14.11

Empirical Laboratories, LLC

Sample #1 : \\BC\TARGET\chem\ecd3.i\101211.b\057F5701.D
Sample #2 : \\BC\TARGET\chem\ecd3.i\101211.b\057R5701.D
Inj Date : 13-OCT-2011 06:46
Sample Info: 1109191-04,CuA
Misc Info : ;;;;;;PCB.sub
Cal Date : 13-OCT-2011 23:13
Operator : EM
Inst ID : ecd3.i
Dil Factor : 1.000000

Method #1 : \\BC\TARGET\chem\ecd3.i\101211.b\8081_82F.m
Method #2 : \\BC\TARGET\chem\ecd3.i\101211.b\8081_82R.m
Sub List #1 : PCB.sub
Sub List #2 : PCB.sub
Col #1 Phase : ZB MR-1
Col #2 Phase : ZB MR-2

Compound	RT#1	RT#2	Resp#1	Resp#2	Conc#1	Conc#2	Target Range	Ratio
TCMX	6.128	5.425	2803364	2603738	74.41	70.62		100.00(R)
DCB	12.709	11.579	2318113	1525072	61.95	57.32		100.00(R)

QC Flag Legend

R - Spike/Surrogate failed recovery limits.

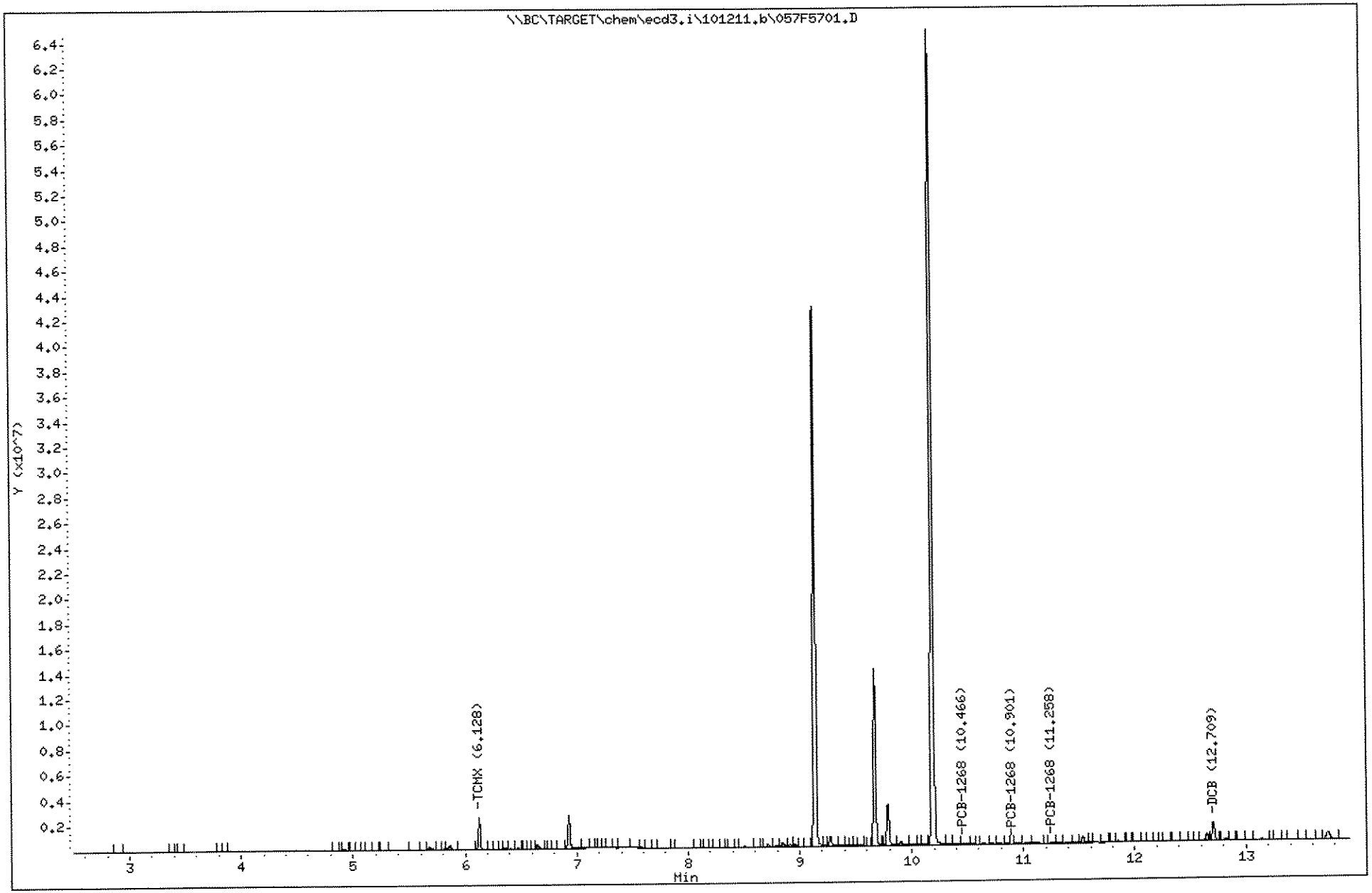
10/16/11

Data File: \\BC\TARGET\chem\ecd3.i\101211.b\057F5701.D
Date : 13-OCT-2011 06:46
Client ID:
Sample Info: 1109191-04,CuA

Instrument: ecd3.i

Operator: EM
Column diameter: 0.32

Column phase: ZB MR-1



1530

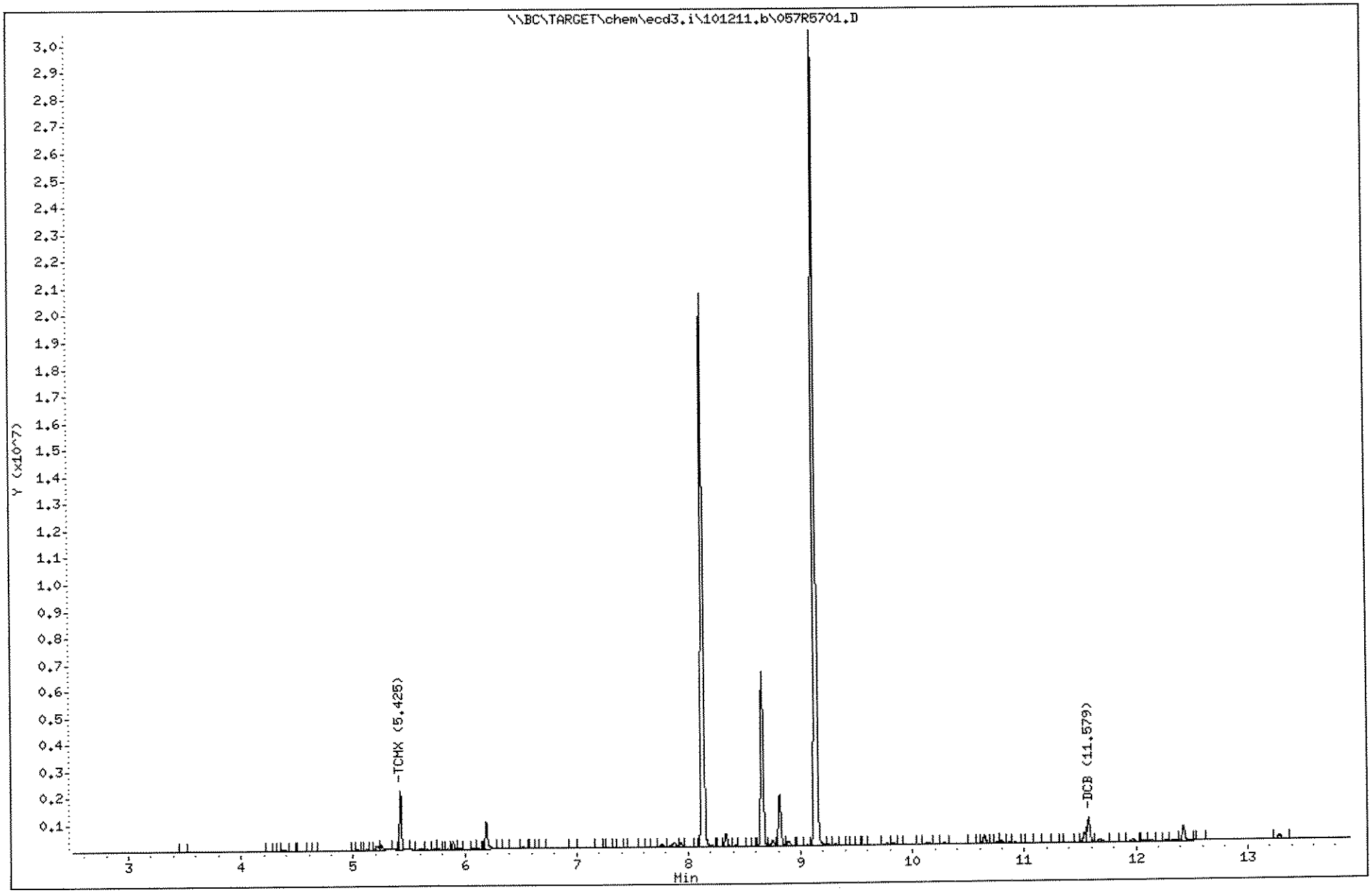
1109191

Data File: \\BC\TARGET\chem\ecd3.i\101211.b\057R5701.D
Date : 13-OCT-2011 06:46
Client ID:
Sample Info: 1109191-04,CuA

Instrument: ecd3.i

Operator: EM
Column diameter: 0.32

Column phase: ZB MR-2



1531

1109191

JH. 10.14.11

Empirical Laboratories, LLC

Sample #1 : \\BC\TARGET\chem\ecd3.i\101211.b\058F5801.D
Sample #2 : \\BC\TARGET\chem\ecd3.i\101211.b\058R5801.D
Inj Date : 13-OCT-2011 07:05
Sample Info: 1109191-05;CuA
Misc Info : ;;;;;;PCB.sub
Cal Date : 13-OCT-2011 23:13
Operator : EM
Inst ID : ecd3.i
Dil Factor : 1.000000

Method #1 : \\BC\TARGET\chem\ecd3.i\101211.b\8081_82F.m
Method #2 : \\BC\TARGET\chem\ecd3.i\101211.b\8081_82R.m
Sub List #1 : PCB.sub
Sub List #2 : PCB.sub
Col #1 Phase : ZB MR-1
Col #2 Phase : ZB MR-2

Compound	RT#1	RT#2	Resp#1	Resp#2	Conc#1	Conc#2	Target Range	Ratio
TCMX	6.131	5.425	3187628	3051561	84.61	82.77		100.00(R)
DCB	12.709	11.578	3105834	2198747	83.00	83.21		100.00(R)

QC Flag Legend

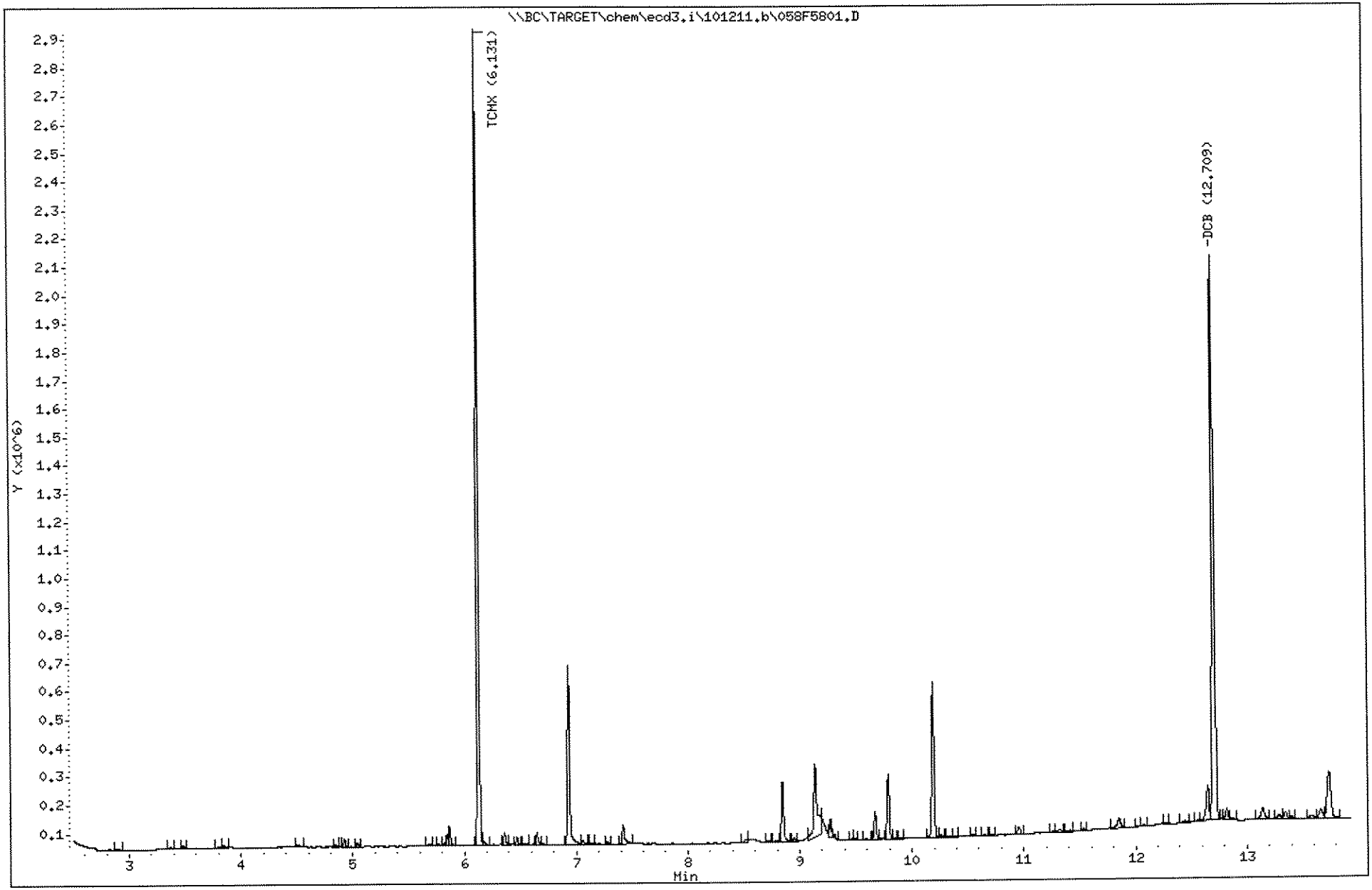
R - Spike/Surrogate failed recovery limits. 10/16/11

Data File: \\BC\TARGET\chem\ecd3.i\101211.b\058F5801.D
Date : 13-OCT-2011 07:05
Client ID: FLC-4-SS02-0624-092
Sample Info: 1109191-05;CuA

Instrument: ecd3.i

Operator: EM
Column diameter: 0.32

Column phase: ZB MR-1



1533

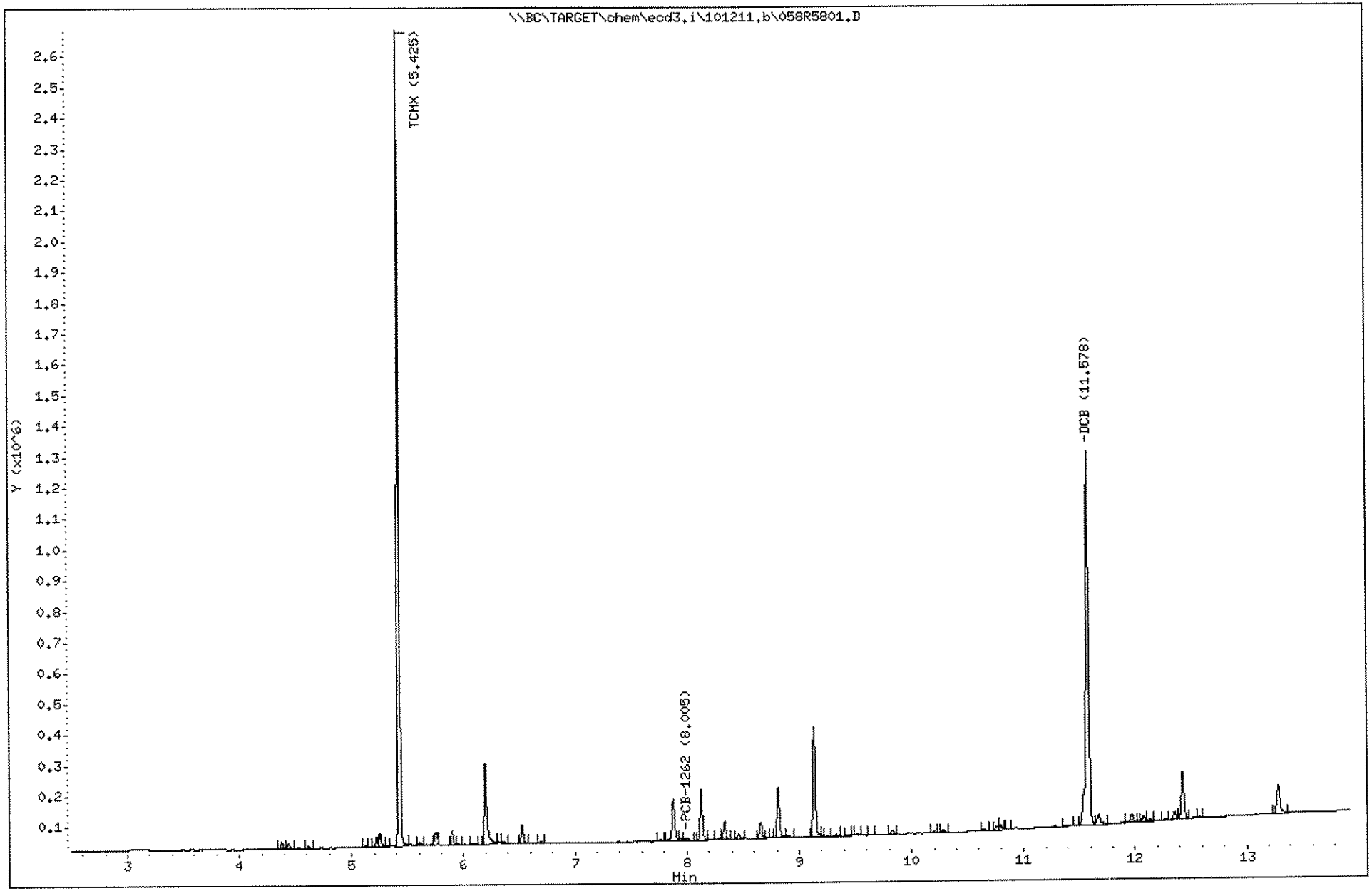
1109191

Data File: \\BC\TARGET\chem\ecd3.i\101211.b\058R5801.D
Date : 13-OCT-2011 07:05
Client ID: FLC-4-SS02-0624-092
Sample Info: 1109191-05;CuA

Instrument: ecd3.i

Operator: EM
Column diameter: 0.32

Column phase: ZB MR-2



1534

1109191

J.H. 10.14.11

Empirical Laboratories, LLC

Sample #1 : \\BC\TARGET\chem\ecd3.i\101211.b\059F5901.D
Sample #2 : \\BC\TARGET\chem\ecd3.i\101211.b\059R5901.D
Inj Date : 13-OCT-2011 07:23
Sample Info: 1109191-06;CuA
Misc Info : ;;;;;;PCB.sub
Cal Date : 13-OCT-2011 23:13
Operator : EM
Inst ID : ecd3.i
Dil Factor : 1.000000

Method #1 : \\BC\TARGET\chem\ecd3.i\101211.b\8081_82F.m
Method #2 : \\BC\TARGET\chem\ecd3.i\101211.b\8081_82R.m
Sub List #1 : PCB.sub
Sub List #2 : PCB.sub
Col #1 Phase : ZB MR-1
Col #2 Phase : ZB MR-2

Compound	RT#1	RT#2	Resp#1	Resp#2	Conc#1	Conc#2	Target Range	Ratio
TCMX	6.128	5.424	2877607	2838822	76.38	77.00		100.00(R)
DCB	12.708	11.578	2453427	1739023	65.56	65.54		100.00(R)

QC Flag Legend

R - Spike/Surrogate failed recovery limits.

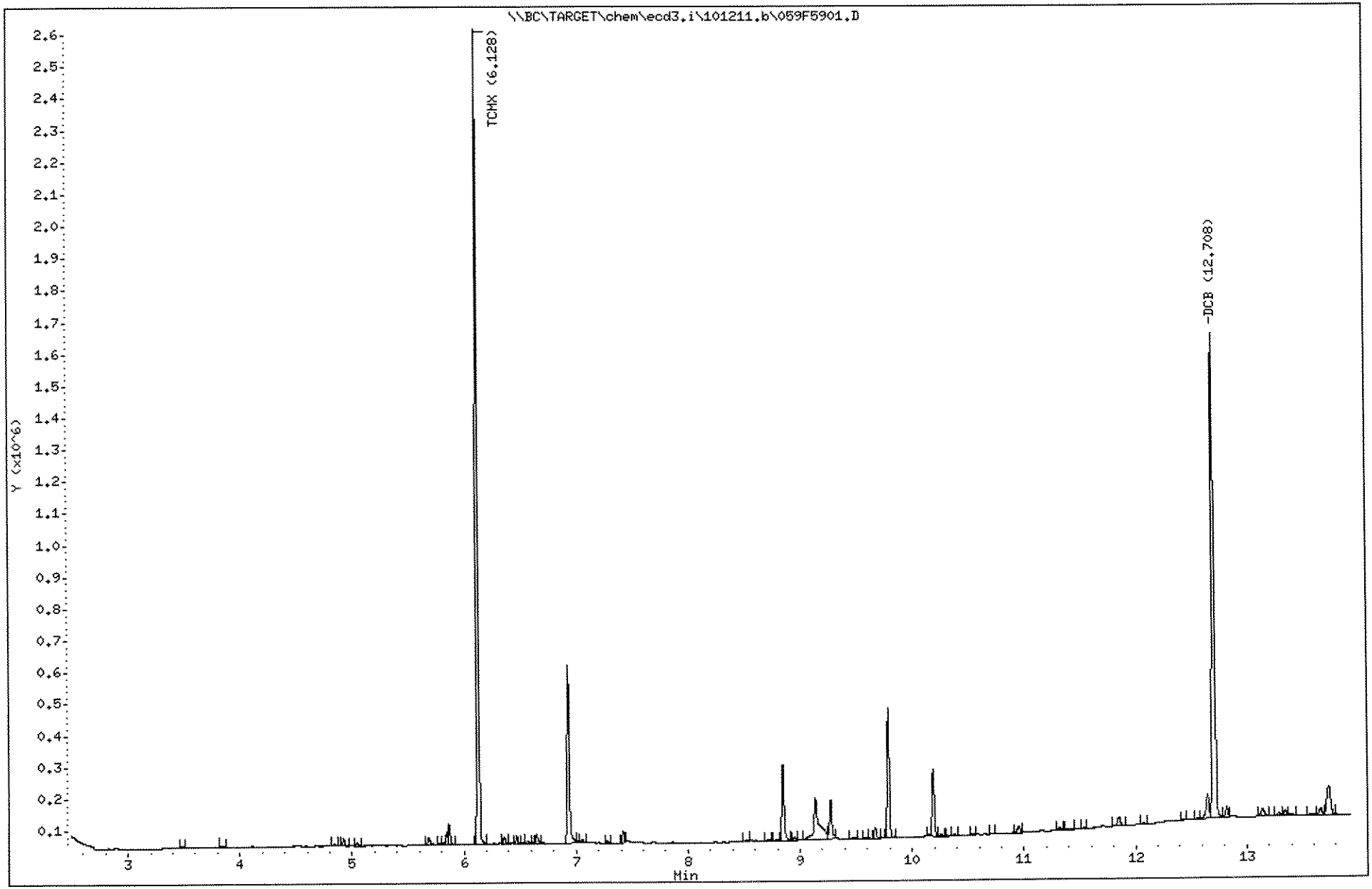
10/16/11

Data File: \\BC\TARGET\chem\ecd3.i\101211.b\059F5901.D
Date : 13-OCT-2011 07:23
Client ID: FLC-4-SB02-0204-092
Sample Info: 1109191-06;CuA

Instrument: ecd3.i

Operator: EM
Column diameter: 0.32

Column phase: ZB MR-1



1536

1109191

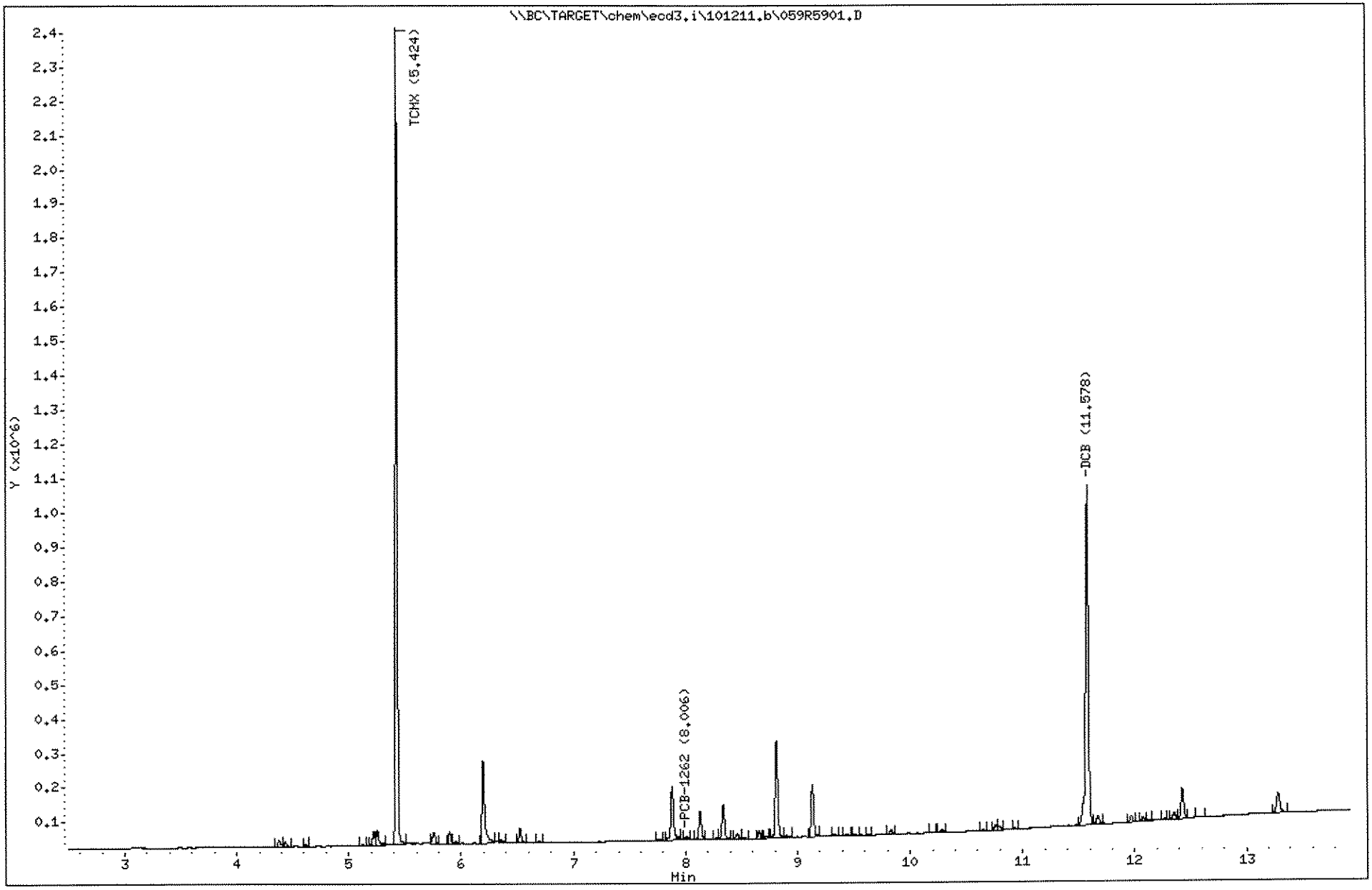
Data File: \\BC\TARGET\chem\ecd3.i\101211.b\059R5901.D
Date : 13-OCT-2011 07:23
Client ID: FLC-4-SB02-0204-092
Sample Info: 1109191-06;CuA

Instrument: ecd3.i

Operator: EM

Column phase: ZB MR-2

Column diameter: 0.32



1537

1109191

JH. 10.14.11

Empirical Laboratories, LLC

SW-846 METHODS 8081A/8082

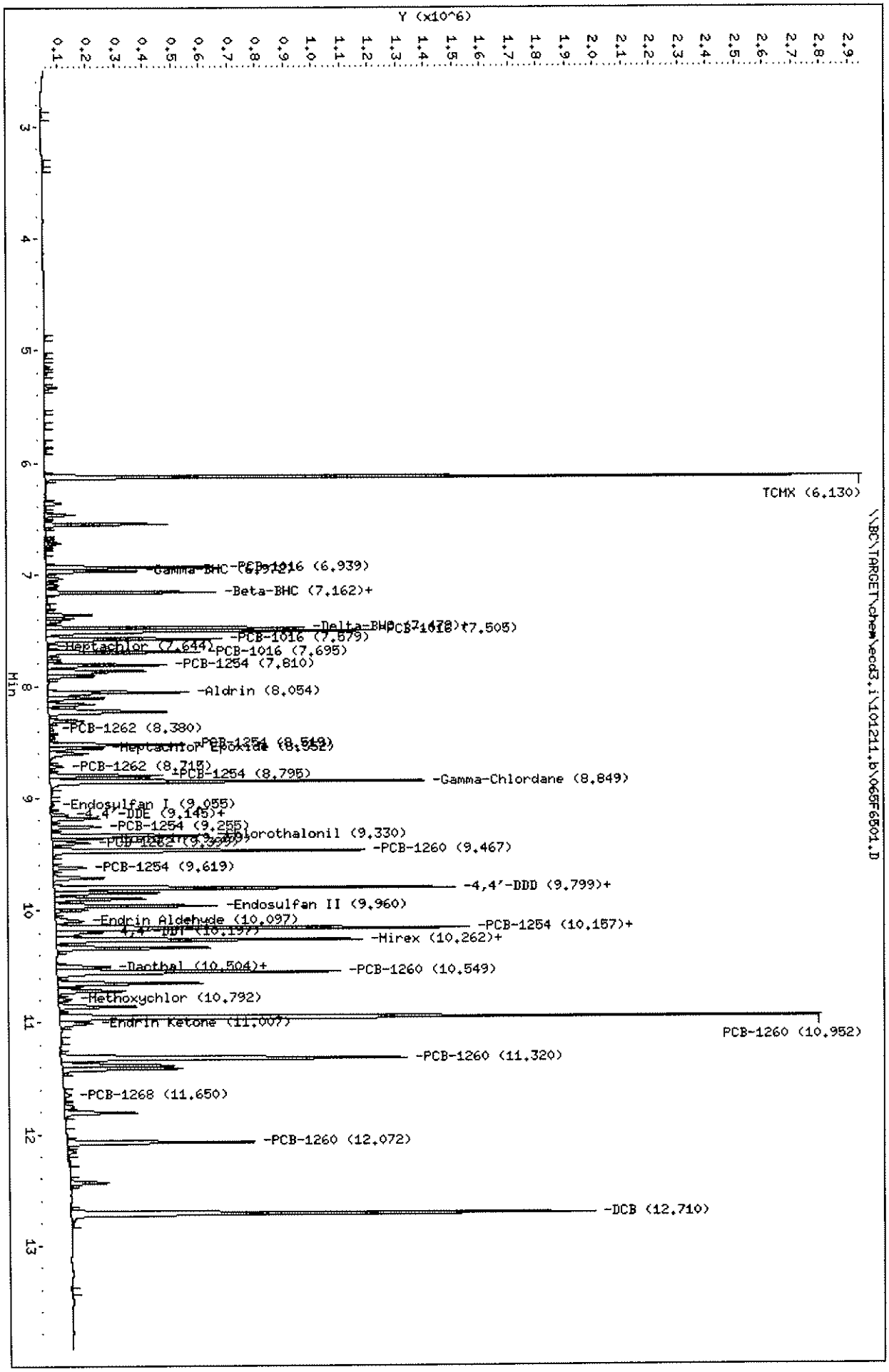
Data file : \\BC\TARGET\chem\ecd3.i\101211.b\065F6501.D
Lab Smp Id: SEQ-CCV9
Inj Date : 13-OCT-2011 09:15
Operator : EM Inst ID: ecd3.i
Smp Info : SEQ-CCV9
Misc Info : ;;;;;;1660D.sub
Comment :
Method : \\BC\TARGET\chem\ecd3.i\101211.b\8081_82F.m
Meth Date : 14-Oct-2011 00:41 jeh Quant Type: ESTD
Cal Date : 10-AUG-2011 19:35 Cal File: 002F0101.D
Als bottle: 65 Continuing Calibration Sample
Dil Factor: 1.00000
Integrator: Falcon Compound Sublist: 1660d.sub
Target Version: 4.04 Sample Matrix: None
Processing Host: NSH-LAPTOP1

RT	EXP RT	DLT RT	RESPONSE	AMOUNTS CAL-AMT (ng/mL)	AMOUNTS ON-COL (ng/mL)	TARGET RANGE	RATIO
29 PCB-1016					CAS #: 12674-11-2		
7.505	7.502	(0.003)	1619226	1000.00	941.9	80.00- 120.00	100.00
6.938	6.935	(0.003)	726665	1000.00	864.0	35.90- 53.85	44.88
7.161	7.159	(0.002)	706375	1000.00	868.6	34.90- 52.35	43.62
7.478	7.477	(0.001)	1063666	1000.00	862.9	52.55- 78.83	65.69
7.578	7.575	(0.003)	885432			43.75- 65.62	54.68
7.695	7.694	(0.001)	699618	1000.00	846.6	34.57- 51.85	43.21
		Average of Peak Amounts =			876.8		
35 PCB-1260					CAS #: 11096-82-5		
10.951	10.949	(0.002)	3872235	1000.00	942.9	80.00- 120.00	100.00
9.466	9.464	(0.002)	1552096			32.07- 48.10	40.08
9.798	9.797	(0.001)	2008542	1000.00	904.9	41.50- 62.24	51.87
10.156	10.156	(0.000)	* 2232765	1000.00	914.5	46.13- 69.19	57.66
10.261	10.259	(0.002)	1574891	1000.00	897.0	32.54- 48.81	40.67
10.548	10.546	(0.002)	1677865			34.66- 52.00	43.33
11.320	11.317	(0.003)	2286884			47.25- 70.87	59.06
12.071	12.069	(0.002)	960042	1000.00	888.6	19.83- 29.75	24.79
		Average of Peak Amounts =			909.6		
$ 38 TCMX					CAS #: 877-09-8		
6.130	6.129	(0.001)	3235492	100.000	85.88		
$ 39 DCB					CAS #: 2051-24-3		
12.710	12.707	(0.003)	3044568	100.000	81.36		

10/16/11

Data File: \\BC\TARGET\chem\ecd3.i\101211.b\065F6501.D
Date : 13-OCT-2011 09:15
Client ID:
Sample Info: SEQ-CCV9
Column phase: ZB MR-1

Instrument: ecd3.i
Operator: EM
Column diameter: 0.32



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Empirical Laboratories, LLC

SW-846 METHODS 8081A/8082

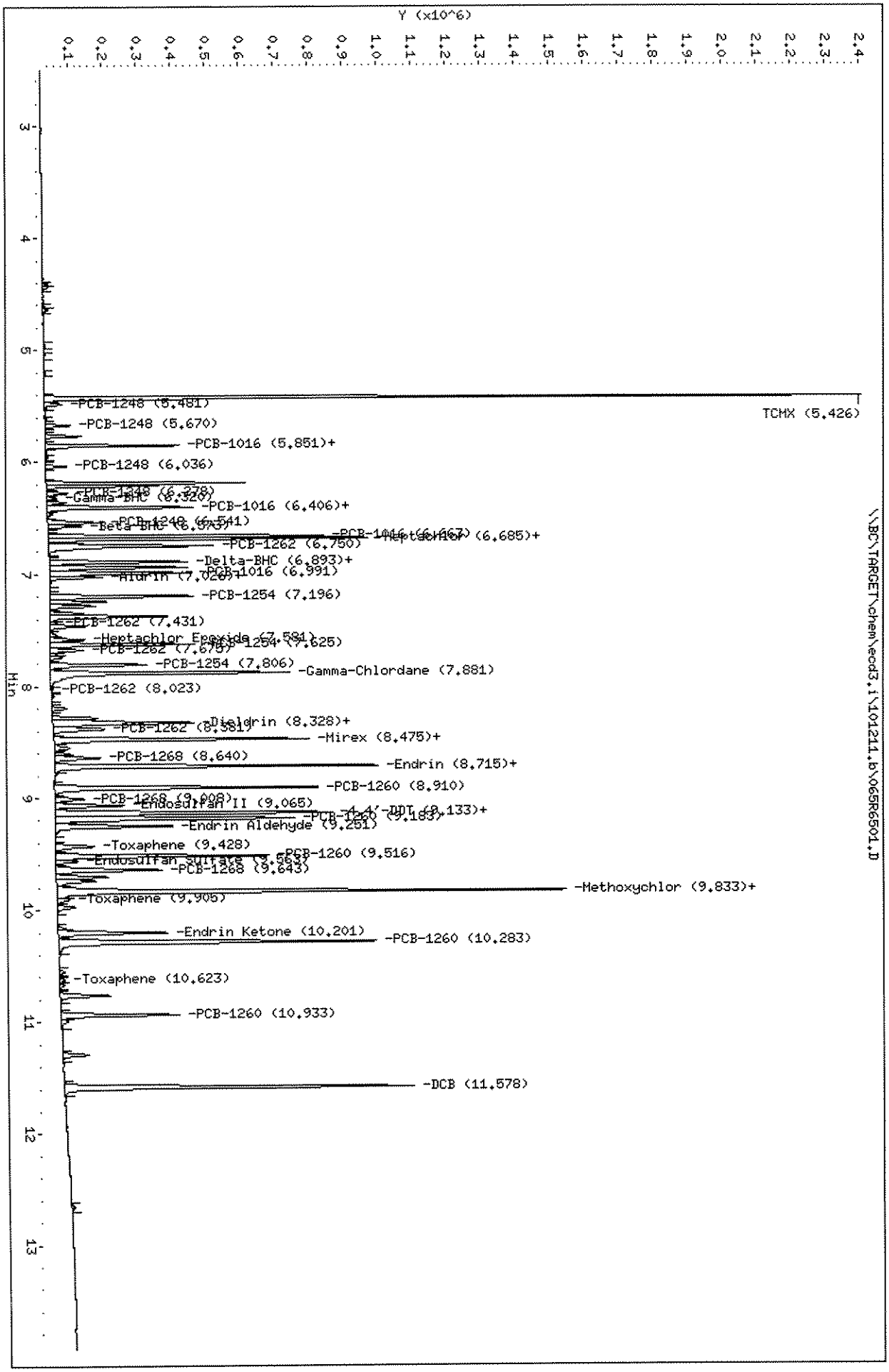
Data file : \\BC\TARGET\chem\ecd3.i\101211.b\065R6501.D
Lab Smp Id: SEQ-CCV9
Inj Date : 13-OCT-2011 09:15
Operator : EM Inst ID: ecd3.i
Smp Info : SEQ-CCV9
Misc Info : ;;;;;;1660D.sub
Comment :
Method : \\BC\TARGET\chem\ecd3.i\101211.b\8081_82R.m
Meth Date : 14-Oct-2011 00:41 jeh Quant Type: ESTD
Cal Date : 10-AUG-2011 19:35 Cal File: 002R0101.D
Als bottle: 65 Continuing Calibration Sample
Dil Factor: 1.00000
Integrator: Falcon Compound Sublist: 1660d.sub
Target Version: 4.04 Sample Matrix: None
Processing Host: NSH-LAPTOP1

RT	EXP RT	DLT RT	RESPONSE	AMOUNTS CAL-AMT (ng/mL)	AMOUNTS ON-COL (ng/mL)	TARGET RANGE	RATIO
29 PCB-1016 [2C]					CAS #: 12674-11-2		
6.684	6.681	(0.003)	1181182	1000.00	969.6	80.00- 120.00	100.00
5.851	5.848	(0.003)	467287			31.65- 47.47	39.56
6.406	6.403	(0.003)	659468	1000.00	960.8	44.66- 67.00	55.83
6.662	6.660	(0.002)	960128	1000.00	1009	65.03- 97.54	81.29
6.892	6.888	(0.004)	562373	1000.00	869.7	38.09- 57.13	47.61
6.991	6.986	(0.005)	619483	1000.00	927.8	41.96- 62.94	52.45
		Average of Peak Amounts =			947.4		
35 PCB-1260 [2C]					CAS #: 11096-82-5		
9.832	9.826	(0.006)	2451694	1000.00	982.2	80.00- 120.00	100.00
8.714	8.710	(0.004)	1394657	1000.00	907.3	45.51- 68.26	56.89
8.909	8.903	(0.006)	*1252946	1000.00	877.6	40.88- 61.33	51.11
9.132	9.126	(0.006)	1396027	1000.00	920.4	45.55- 68.33	56.94
9.182	9.176	(0.006)	1211559			39.53- 59.30	49.42
9.516	9.510	(0.006)	999227	1000.00	901.8	32.61- 48.91	40.76
10.282	10.278	(0.004)	1672892			54.59- 81.88	68.23
10.932	10.930	(0.002)	557189			18.18- 27.27	22.73
		Average of Peak Amounts =			917.8		
$ 38 TCMX [2C]					CAS #: 877-09-8		
5.426	5.421	(0.005)	2761778	100.000	74.91		
$ 39 DCB [2C]					CAS #: 2051-24-3		
11.577	11.573	(0.004)	1714549	100.000	64.60		

10/16/11

Data File: \\BC\TARGET\chem\ecd3.i\101211.b\065R6501.D
Date : 13-OCT-2011 09:15
Client ID:
Sample Info: SEQ-CCV9
Column phase: ZB MR-2

Instrument: ecd3.i
Operator: EM
Column diameter: 0.32



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Empirical Laboratories, LLC

SW-846 METHODS 8081A/8082

Data file : \\BC\TARGET\chem\ecd3.i\101211.b\066F6601.D
Lab Smp Id: SEQ-CCVA
Inj Date : 13-OCT-2011 09:34
Operator : EM Inst ID: ecd3.i
Smp Info : SEQ-CCVA
Misc Info : ;;;;;;AR1254.sub
Comment :
Method : \\BC\TARGET\chem\ecd3.i\101211.b\8081_82F.m
Meth Date : 14-Oct-2011 00:41 jeh Quant Type: ESTD
Cal Date : 10-AUG-2011 19:35 Cal File: 002F0101.D
Als bottle: 66 Continuing Calibration Sample
Dil Factor: 1.00000
Integrator: Falcon Compound Sublist: AR1254.sub
Target Version: 4.04 Sample Matrix: None
Processing Host: NSH-LAPTOP1

RT	EXP RT	DLT RT	RESPONSE	AMOUNTS CAL-AMT (ng/mL)	AMOUNTS ON-COL (ng/mL)	TARGET RANGE	RATIO
34 PCB-1254					CAS #: 11097-69-1		
9.255	9.251	(0.004)	* 1943548	1000.00	888.6	80.00- 120.00	100.00
7.810	7.808	(0.002)	627871	1000.00	858.6	25.84- 38.77	32.31
8.520	8.516	(0.004)	1143409			47.06- 70.60	58.83
8.795	8.793	(0.002)	1783933	1000.00	850.0	73.43- 110.14	91.79
9.621	9.618	(0.003)	1505881	1000.00	883.5	61.98- 92.98	77.48
10.160	10.155	(0.005)	1604157	1000.00 X	883.8	66.03- 99.05	82.54
		Average of Peak Amounts =			872.9		

10/16/11

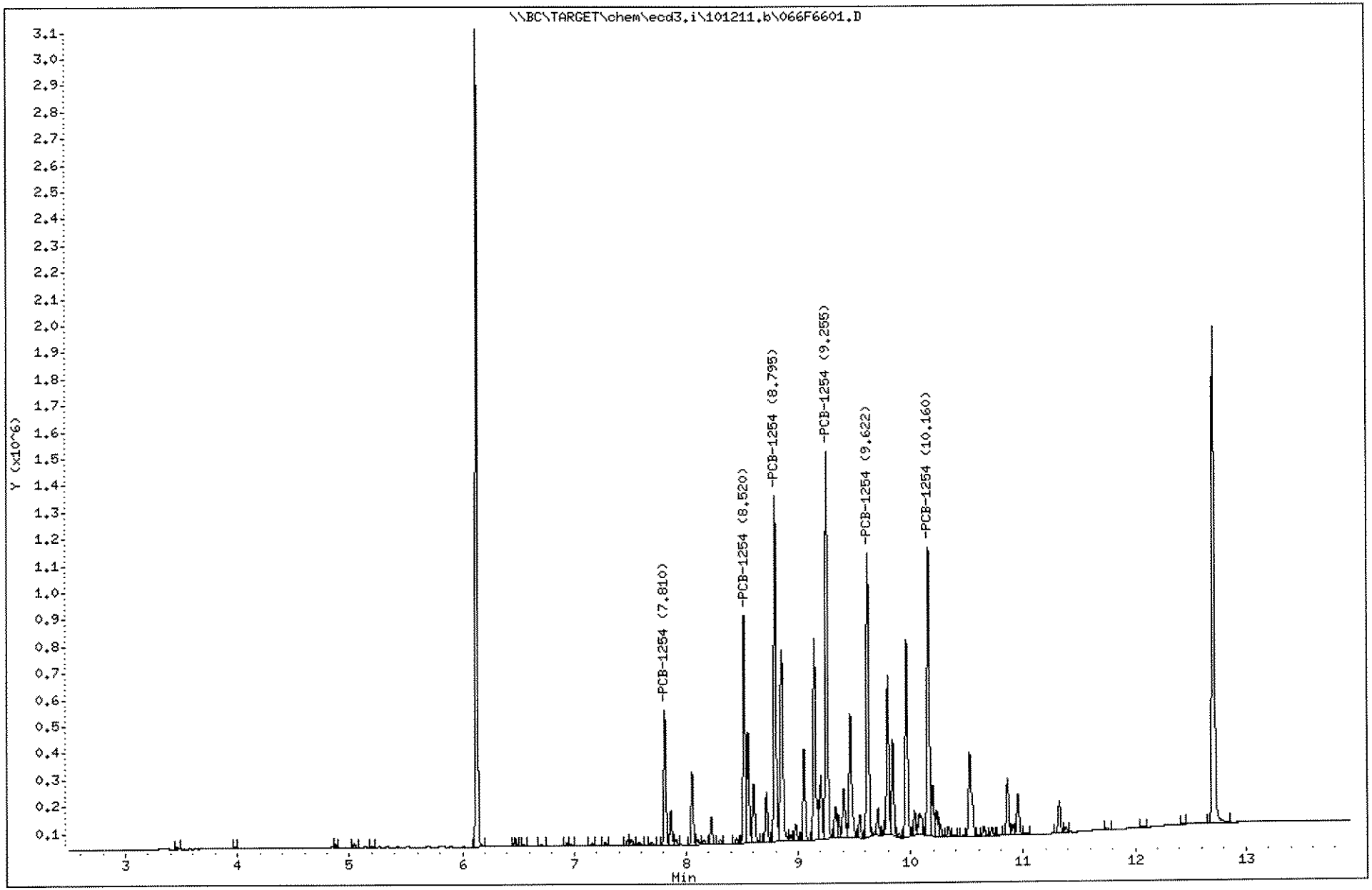
Data File: \\BC\TARGET\chem\ecd3.i\101211.b\066F6601.D
Date : 13-OCT-2011 09:34
Client ID:
Sample Info: SEQ-CCVA

Instrument: ecd3.i

Operator: EM

Column phase: ZB MR-1

Column diameter: 0.32



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J.H. 10.14.11

Empirical Laboratories, LLC

SW-846 METHODS 8081A/8082

Data file : \\BC\TARGET\chem\ecd3.i\101211.b\066R6601.D
Lab Smp Id: SEQ-CCVA
Inj Date : 13-OCT-2011 09:34
Operator : EM Inst ID: ecd3.i
Smp Info : SEQ-CCVA
Misc Info : ;;;;;;AR1254.sub
Comment :
Method : \\BC\TARGET\chem\ecd3.i\101211.b\8081_82R.m
Meth Date : 14-Oct-2011 00:41 jeh Quant Type: ESTD
Cal Date : 10-AUG-2011 19:35 Cal File: 002R0101.D
Als bottle: 66 Continuing Calibration Sample
Dil Factor: 1.00000
Integrator: Falcon Compound Sublist: AR1254.sub
Target Version: 4.04 Sample Matrix: None
Processing Host: NSH-LAPTOP1

RT	EXP RT	DLT RT	RESPONSE	AMOUNTS CAL-AMT (ng/mL)	AMOUNTS ON-COL (ng/mL)	TARGET RANGE	RATIO
34 PCB-1254 [2C]					CAS #: 11097-69-1		
8.311	8.306	(0.005)	* 1828168	1000.00	1032	80.00- 120.00	100.00
7.196	7.192	(0.004)	375676			16.44- 24.66	20.55
7.624	7.621	(0.003)	1496136	1000.00	1057	65.47- 98.21	81.84
7.807	7.802	(0.005)	1279712	1000.00	1053	56.00- 84.00	70.00
8.474	8.471	(0.003)	890419	1000.00 X	976.6	38.96- 58.45	48.71
9.134	9.129	(0.005)	1470007	1000.00	975.8	64.33- 96.49	80.41
		Average of Peak Amounts =			1019		

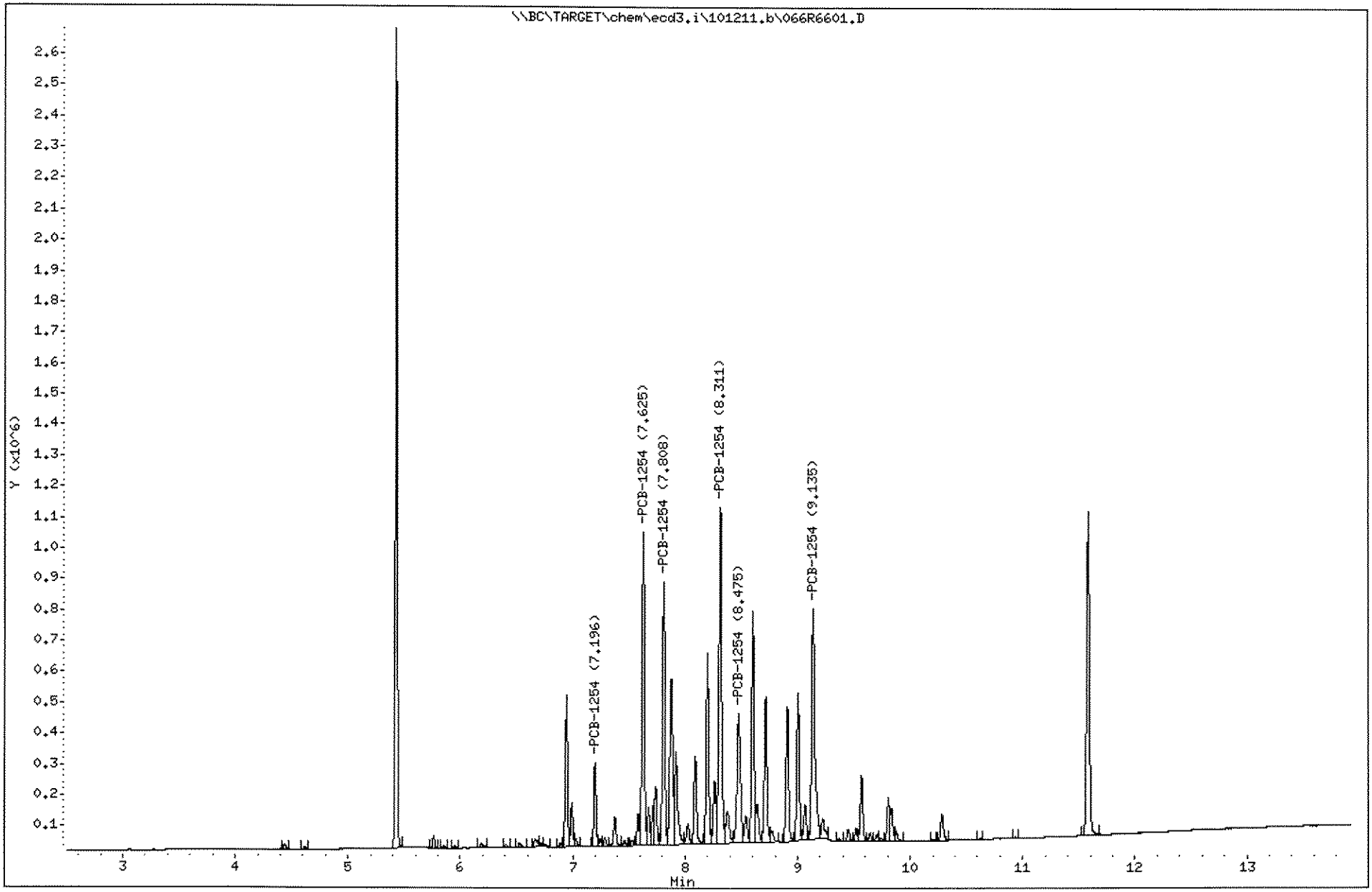
10/16/11

Data File: \\BC\TARGET\chem\ecd3.i\101211.b\066R6601.D
Date : 13-OCT-2011 09:34
Client ID:
Sample Info: SEQ-CCVA

Column phase: ZB MR-2

Instrument: ecd3.i

Operator: EM
Column diameter: 0.32



1545

1109191

PREPARATION BENCH SHEET

1I23014

Empirical Laboratories, LLC **Printed: 10/12/2011 3:43:22PM**

Instrument:

Matrix: Water **Prepared using: EXT - EXT_3510** **Surrogate used: 11I0576**

Lab Number	Cont ID	Analysis	Prepared	Initial (mL)	Final (mL)	Spike ID	Source ID	ul Spike	ul Surrogate	PH	Extraction Comments
1109170-01	D	SGC_PCB8082A_3510	09/26/2011	1080	10				1000	NA	
1109191-10	H	SGC_PCB8082A_3510	09/26/2011	1070	10				1000	NA	
1109192-12	H	SGC_PCB8082A_3510	09/26/2011	1070	10				1000	NA	
1I23014-BLK1		QC	09/26/2011	1000	10				1000	NA	
1I23014-BS1		QC	09/26/2011	1000	10	11H0500		1000	1000	NA	
1I23014-BSD1		QC	09/26/2011	1000	10	11H0500		1000	1000	NA	

Reagents Used:

Standard	Description
11H0173	Sodium Sulfate Anhydrous
11I0107	Methylene Chloride
11I0239	Hexanes

Spiking Witnessed By Date

Preparation Reviewed By Date

Extracts Received By Date

1546

1109191

PREPARATION BENCH SHEET

1I29016

Empirical Laboratories, LLC **Printed: 10/29/2011 10:03:14AM**

Instrument:

Matrix: Solid **Prepared using: EXT - EXT_3546** **Surrogate used: 11I0845**

Lab Number	Cont ID	Analysis	Prepared	Initial (g)	Final (mL)	Spike ID	Source ID	ul Spike	ul Surrogate	PH	Extraction Comments
1109191-01	E	SGC_PCB8082A_3546	10/03/2011	15.4	5				500	NA	
1109191-02	J	SGC_PCB8082A_3546	10/03/2011	15.6	5				500	NA	MS/MSD
1109191-03	D	SGC_PCB8082A_3546	10/03/2011	15.8	5				500	NA	
1109191-04	E	SGC_PCB8082A_3546	10/03/2011	15.2	5				500	NA	
1109191-05	E	SGC_PCB8082A_3546	10/03/2011	15.3	5				500	NA	
1109191-06	E	SGC_PCB8082A_3546	10/03/2011	15.8	5				500	NA	
1109192-01	E	SGC_PCB8082A_3546	10/03/2011	15.6	5				500	NA	
1109192-02	E	SGC_PCB8082A_3546	10/03/2011	15.8	5				500	NA	
1109192-03	D	SGC_PCB8082A_3546	10/03/2011	15.1	5				500	NA	
1109192-04	D	SGC_PCB8082A_3546	10/03/2011	15.3	5				500	NA	
1109192-05	E	SGC_PCB8082A_3546	10/03/2011	15.9	5				500	NA	
1109192-06	E	SGC_PCB8082A_3546	10/03/2011	15.4	5				500	NA	
1109192-07	E	SGC_PCB8082A_3546	10/03/2011	15.7	5				500	NA	
1109192-08	E	SGC_PCB8082A_3546	10/03/2011	15.7	5				500	NA	
1109192-09	E	SGC_PCB8082A_3546	10/03/2011	15.2	5				500	NA	
1109192-10	E	SGC_PCB8082A_3546	10/03/2011	15.3	5				500	NA	
1109192-11	D	SGC_PCB8082A_3546	10/03/2011	15.8	5				500	NA	
1109192-13	E	SGC_PCB8082A_3546	10/03/2011	15.8	5				500	NA	
1109192-14	E	SGC_PCB8082A_3546	10/03/2011	15.7	5				500	NA	
1109192-15	E	SGC_PCB8082A_3546	10/03/2011	15.3	5				500	NA	
1I29016-BLK1		QC	10/03/2011	15	5				500	NA	
1I29016-BS1		QC	10/03/2011	15	5	11I0721		500	500	NA	

Spiking Witnessed By Date

Preparation Reviewed By Date

Extracts Received By Date

1547

1109191

PREPARATION BENCH SHEET

1I29016

Empirical Laboratories, LLC

Printed: 10/29/2011 10:03:14AM

Instrument:

Matrix: Solid **Prepared using: EXT - EXT_3546** **Surrogate used: 11I0845**

Lab Number	Cont ID	Analysis	Prepared	Initial (g)	Final (mL)	Spike ID	Source ID	ul Spike	ul Surrogate	PH	Extraction Comments
1I29016-MS1		QC	10/03/2011	15.4	5	11I0721	1109191-02	500	500	NA	
1I29016-MSD1		QC	10/03/2011	15.3	5	11I0721	1109191-02	500	500	NA	

Reagents Used:

Standard	Description
11I0239	Hexanes
11I0761	Sodium Sulfate Anhydrous

Spiking Witnessed By Date

Preparation Reviewed By Date

Extracts Received By Date

1548

1109191

Data for FLPRO Forms

ANALYSIS SEQUENCE SUMMARY

FLPRO

Laboratory:	Empirical Laboratories, LLC	SDG:	1109191
Client:	Tetra Tech NUS, Inc. (T010)	Project:	Navy Fuel Depot CTO JM46
Sequence:	1H24311	Instrument:	GL-GCFID2
Calibration:	1243002		

Sample Name	Lab Sample ID	Lab File ID	Analysis Date/Time
Cal Standard	1H24311-CAL1	029F3001.D	08/30/11 21:41
Cal Standard	1H24311-CAL2	030F3101.D	08/30/11 22:14
Cal Standard	1H24311-CAL3	031F3201.D	08/30/11 22:47
Cal Standard	1H24311-CAL4	032F3301.D	08/30/11 23:20
Cal Standard	1H24311-CAL5	033F3401.D	08/30/11 23:54
Cal Standard	1H24311-CAL6	034F3501.D	08/31/11 00:27
Initial Cal Check	1H24311-ICV1	035F3601.D	08/31/11 01:00

ANALYSIS SEQUENCE SUMMARY

FLPRO

Laboratory:	Empirical Laboratories, LLC	SDG:	1109191
Client:	Tetra Tech NUS, Inc. (T010)	Project:	Navy Fuel Depot CTO JM46
Sequence:	1J27605	Instrument:	GL-GCFID2
Calibration:	1243002		

Sample Name	Lab Sample ID	Lab File ID	Analysis Date/Time
Calibration Check	1J27605-CCV1	002F0201.D	09/30/11 13:39
Blank	1I27031-BLK1	003F0301.D	09/30/11 14:12
LCS	1I27031-BS1	004F0401.D	09/30/11 14:46
LCS Dup	1I27031-BSD1	005F0501.D	09/30/11 15:19
FLC-4-RB01-092211	1109191-10	006F0601.D	09/30/11 15:52
Calibration Check	1J27605-CCV2	017F1701.D	09/30/11 21:58
Blank	1I28003-BLK1	018F1801.D	09/30/11 22:31
LCS	1I28003-BS1	019F1901.D	09/30/11 23:04
FLC-4-SS01-0006-092211	1109191-01	020F2001.D	09/30/11 23:37
FLC-4-SS01-0624-092211	1109191-02	021F2101.D	10/01/11 00:10
FLC-4-SS01-0624-092211	1I28003-MS1	022F2201.D	10/01/11 00:43
FLC-4-SS01-0624-092211	1I28003-MSD1	023F2301.D	10/01/11 01:16
FLC-4-SB01-0204-092211	1109191-03	024F2401.D	10/01/11 01:49
FLC-4-SS02-0006-092211	1109191-04	025F2501.D	10/01/11 02:22
FLC-4-SS02-0624-092211	1109191-05	026F2601.D	10/01/11 02:56
FLC-4-SB02-0204-092211	1109191-06	027F2701.D	10/01/11 03:29
Calibration Check	1J27605-CCV3	032F3201.D	10/01/11 06:14

ANALYSIS DATA SHEET

FLC-4-SS01-0006-092211

Laboratory:	Empirical Laboratories, LLC			SDG:	1109191
Client:	Tetra Tech NUS, Inc. (T010)			Project:	Navy Fuel Depot CTO JM46
Matrix:	Soil	Laboratory ID:	1109191-01	File ID:	020F2001.D
Sampled:	09/22/11 08:45	Prepared:	09/28/11 13:20	Analyzed:	09/30/11 23:37
Solids:	97.94	Preparation:	EXT_3546	Dilution:	10

Batch: 1I28003 Sequence: 1J27605 Calibration: 1243002 Instrument: GL-GCFID2

CAS NO.	COMPOUND	CONC. (mg/Kg dry)	DL	LOD	LOQ	Q
	Petroleum Range Organics	171	108	216	432	X, , D I

SYSTEM MONITORING COMPOUND	ADDED (mg/Kg dry)	CONC (mg/Kg dry)	% REC	QC LIMITS	Q
2-Fluorobiphenyl	3.273	0.3619	11.1	50 - 150	*
o-Terphenyl	3.273	2.603	79.5	35 - 140	X

ANALYSIS DATA SHEET

FLC-4-SS01-0624-092211

Laboratory:	Empirical Laboratories, LLC			SDG:	1109191
Client:	Tetra Tech NUS, Inc. (T010)			Project:	Navy Fuel Depot CTO JM46
Matrix:	Soil	Laboratory ID:	1109191-02	File ID:	021F2101.D
Sampled:	09/22/11 09:00	Prepared:	09/28/11 13:20	Analyzed:	10/01/11 00:10
Solids:	96.12	Preparation:	EXT_3546	Dilution:	10

Batch: 1I28003 Sequence: 1J27605 Calibration: 1243002 Instrument: GL-GCFID2

CAS NO.	COMPOUND	CONC. (mg/Kg dry)	DL	LOD	LOQ	Q
	Petroleum Range Organics		114	229	458	X, U

SYSTEM MONITORING COMPOUND	ADDED (mg/Kg dry)	CONC (mg/Kg dry)	% REC	QC LIMITS	Q
2-Fluorobiphenyl	3.468	0.000		50 - 150	*U
o-Terphenyl	3.468	2.049	59.1	35 - 140	X

ANALYSIS DATA SHEET

FLC-4-SB01-0204-092211

Laboratory:	Empirical Laboratories, LLC			SDG:	1109191
Client:	Tetra Tech NUS, Inc. (T010)			Project:	Navy Fuel Depot CTO JM46
Matrix:	Soil	Laboratory ID:	1109191-03	File ID:	024F2401.D
Sampled:	09/22/11 09:25	Prepared:	09/28/11 13:20	Analyzed:	10/01/11 01:49
Solids:	89.14	Preparation:	EXT_3546	Dilution:	1

Batch: 1I28003 Sequence: 1J27605 Calibration: 1243002 Instrument: GL-GCFID2

CAS NO.	COMPOUND	CONC. (mg/Kg dry)	DL	LOD	LOQ	Q
	Petroleum Range Organics		12.3	24.7	49.4	X, U

SYSTEM MONITORING COMPOUND	ADDED (mg/Kg dry)	CONC (mg/Kg dry)	% REC	QC LIMITS	Q
2-Fluorobiphenyl	3.739	0.3796	10.2	50 - 150	*
o-Terphenyl	3.739	0.7903	21.1	35 - 140	*X

ANALYSIS DATA SHEET

FLC-4-SS02-0006-092211

Laboratory:	Empirical Laboratories, LLC			SDG:	1109191
Client:	Tetra Tech NUS, Inc. (T010)			Project:	Navy Fuel Depot CTO JM46
Matrix:	Soil	Laboratory ID:	1109191-04	File ID:	025F2501.D
Sampled:	09/22/11 10:05	Prepared:	09/28/11 13:20	Analyzed:	10/01/11 02:22
Solids:	93.66	Preparation:	EXT_3546	Dilution:	10

Batch: 1I28003 Sequence: 1J27605 Calibration: 1243002 Instrument: GL-GCFID2

CAS NO.	COMPOUND	CONC. (mg/Kg dry)	DL	LOD	LOQ	Q
	Petroleum Range Organics	236	117	235	470	X, , D I

SYSTEM MONITORING COMPOUND	ADDED (mg/Kg dry)	CONC (mg/Kg dry)	% REC	QC LIMITS	Q
2-Fluorobiphenyl	3.559	0.5399	15.2	50 - 150	*
o-Terphenyl	3.559	3.305	92.9	35 - 140	X

ANALYSIS DATA SHEET

FLC-4-SS02-0624-092211

Laboratory:	Empirical Laboratories, LLC			SDG:	1109191
Client:	Tetra Tech NUS, Inc. (T010)			Project:	Navy Fuel Depot CTO JM46
Matrix:	Soil	Laboratory ID:	1109191-05	File ID:	026F2601.D
Sampled:	09/22/11 10:20	Prepared:	09/28/11 13:20	Analyzed:	10/01/11 02:56
Solids:	98.08	Preparation:	EXT_3546	Dilution:	10

Batch: 1I28003 Sequence: 1J27605 Calibration: 1243002 Instrument: GL-GCFID2

CAS NO.	COMPOUND	CONC. (mg/Kg dry)	DL	LOD	LOQ	Q
	Petroleum Range Organics	148	111	223	446	X, , D I

SYSTEM MONITORING COMPOUND	ADDED (mg/Kg dry)	CONC (mg/Kg dry)	% REC	QC LIMITS	Q
2-Fluorobiphenyl	3.376	0.009629	0.285	50 - 150	*
o-Terphenyl	3.376	2.924	86.6	35 - 140	X

ANALYSIS DATA SHEET

FLC-4-SB02-0204-092211

Laboratory:	Empirical Laboratories, LLC			SDG:	1109191
Client:	Tetra Tech NUS, Inc. (T010)			Project:	Navy Fuel Depot CTO JM46
Matrix:	Soil	Laboratory ID:	1109191-06	File ID:	027F2701.D
Sampled:	09/22/11 10:30	Prepared:	09/28/11 13:20	Analyzed:	10/01/11 03:29
Solids:	94.12	Preparation:	EXT_3546	Dilution:	10

Batch: 1I28003 Sequence: 1J27605 Calibration: 1243002 Instrument: GL-GCFID2

CAS NO.	COMPOUND	CONC. (mg/Kg dry)	DL	LOD	LOQ	Q
	Petroleum Range Organics		117	234	467	X, U

SYSTEM MONITORING COMPOUND	ADDED (mg/Kg dry)	CONC (mg/Kg dry)	% REC	QC LIMITS	Q
2-Fluorobiphenyl	3.542	0.000		50 - 150	*U
o-Terphenyl	3.542	3.074	86.8	35 - 140	X

ANALYSIS DATA SHEET

FLC-4-RB01-092211

Laboratory:	Empirical Laboratories, LLC			SDG:	1109191
Client:	Tetra Tech NUS, Inc. (T010)			Project:	Navy Fuel Depot CTO JM46
Matrix:	Water	Laboratory ID:	1109191-10	File ID:	006F0601.D
Sampled:	09/22/11 11:15	Prepared:	09/28/11 12:40	Analyzed:	09/30/11 15:52
Solids:		Preparation:	EXT_3510	Dilution:	1

Batch: 1I27031 Sequence: 1J27605 Calibration: 1243002 Instrument: GL-GCFID2

CAS NO.	COMPOUND	CONC. (mg/L)	DL	LOD	LOQ	Q
	Petroleum Range Organics		0.159	0.318	0.636	X, U

SYSTEM MONITORING COMPOUND	ADDED (mg/L)	CONC (mg/L)	% REC	QC LIMITS	Q
2-Fluorobiphenyl	0.04673	0.07035	151	50 - 150	*Y
o-Terphenyl	0.04673	0.09612	206	82 - 142	*X

LCS / LCS DUPLICATE RECOVERY

FLPRO

Laboratory:	Empirical Laboratories, LLC	SDG:	1109191
Client:	Tetra Tech NUS, Inc. (T010)	Project:	Navy Fuel Depot CTO JM46
Matrix:	Water		
Batch:	1I27031	Laboratory ID:	1I27031-BS1
Preparation:	EXT_3510	Initial/Final:	1000 mL / 2 mL

ANALYTE	SPIKE ADDED (mg/L)	LCS CONCENTRATION (mg/L)	LCS % REC.	QC LIMITS REC.
Petroleum Range Organics	3.200	2.596	81.1	55 - 118

ANALYTE	SPIKE ADDED (mg/L)	LCSD CONCENTRATION (mg/L)	LCSD % REC. #	% RPD #	QC LIMITS RPD	QC LIMITS REC.
Petroleum Range Organics	3.200	2.981	93.2	13.8	30	55 - 118

LCS / LCS DUPLICATE RECOVERY

FLPRO

Laboratory:	Empirical Laboratories, LLC	SDG:	1109191
Client:	Tetra Tech NUS, Inc. (T010)	Project:	Navy Fuel Depot CTO JM46
Matrix:	Solid		
Batch:	1I28003	Laboratory ID:	1I28003-BS1
Preparation:	EXT_3546	Initial/Final:	15 g / 2 mL

ANALYTE	SPIKE ADDED (mg/Kg wet)	LCS CONCENTRATION (mg/Kg wet)	LCS % REC.	QC LIMITS REC.
Petroleum Range Organics	213.3	213.6	100	50 - 140

MATRIX SPIKE / MATRIX SPIKE DUPLICATE RECOVERY

FLPRO

FLC-4-SS01-0624-092211

Laboratory: Empirical Laboratories, LLC

SDG: 1109191

Client: Tetra Tech NUS, Inc. (T010)

Project: Navy Fuel Depot CTO JM46

Matrix: Solid

Batch: 1I28003

% Solids: 96.12

Source Sample Name: **1109191-02**

ANALYTE	SPIKE ADDED (mg/Kg dry)	SAMPLE CONCENTRATION (mg/Kg dry)	MS CONCENTRATION (mg/Kg dry)	MS % REC.	Q	QC LIMITS REC.
Petroleum Range Organics	214.8	ND	151.8	70.7		50 - 140

ANALYTE	SPIKE ADDED (mg/Kg dry)	MSD CONCENTRATION (mg/Kg dry)	MSD % REC. #	% RPD	Q	QC LIMITS RPD	QC LIMITS REC.
Petroleum Range Organics	214.8	162.6	75.7	6.82		40	50 - 140

PREPARATION BATCH SUMMARY

FLPRO

Laboratory: Empirical Laboratories, LLC SDG: 1109191

Client: Tetra Tech NUS, Inc. (T010) Project: Navy Fuel Depot CTO JM46

Batch: 1I27031 Batch Matrix: Water Preparation: EXT_3510

SAMPLE NAME	LAB SAMPLE ID	DATE PREPARED	INITIAL VOL./WEIGHT	FINAL VOL.
FLC-4-RB01-092211	1109191-10	09/28/11 12:40	1,070.00	2.00
Blank	1I27031-BLK1	09/28/11 12:40	1,000.00	2.00
LCS	1I27031-BS1	09/28/11 12:40	1,000.00	2.00
LCS Dup	1I27031-BSD1	09/28/11 12:40	1,000.00	2.00

PREPARATION BATCH SUMMARY

FLPRO

Laboratory: Empirical Laboratories, LLC SDG: 1109191

Client: Tetra Tech NUS, Inc. (T010) Project: Navy Fuel Depot CTO JM46

Batch: 1I28003 Batch Matrix: Solid Preparation: EXT_3546

SAMPLE NAME	LAB SAMPLE ID	DATE PREPARED	INITIAL VOL./WEIGHT	FINAL VOL.
FLC-4-SS01-0006-092211	1109191-01	09/28/11 13:20	15.60	2.00
FLC-4-SS01-0624-092211	1109191-02	09/28/11 13:20	15.00	2.00
FLC-4-SB01-0204-092211	1109191-03	09/28/11 13:20	15.00	2.00
FLC-4-SS02-0006-092211	1109191-04	09/28/11 13:20	15.00	2.00
FLC-4-SS02-0624-092211	1109191-05	09/28/11 13:20	15.10	2.00
FLC-4-SB02-0204-092211	1109191-06	09/28/11 13:20	15.00	2.00
Blank	1I28003-BLK1	09/28/11 13:20	15.00	2.00
LCS	1I28003-BS1	09/28/11 13:20	15.00	2.00
FLC-4-SS01-0624-092211	1I28003-MS1	09/28/11 13:20	15.50	2.00
FLC-4-SS01-0624-092211	1I28003-MSD1	09/28/11 13:20	15.50	2.00

INITIAL CALIBRATION STANDARDS

FLPRO

Laboratory:	Empirical Laboratories, LLC	SDG:	1109191
Client:	Tetra Tech NUS, Inc. (T010)	Project:	Navy Fuel Depot CTO JM46
Sequence:	1H24311	Instrument:	GL-GCFID2
Calibration:	1243002		

Standard ID	Description	Lab Sample ID	Lab File ID	Analysis Date/Time
11H0595	FLPRO CAL1 8500ppm	1H24311-CAL1	029F3001.D	08/30/11 21:41
11H0596	FLPRO CAL2 5950ppm	1H24311-CAL2	030F3101.D	08/30/11 22:14
11H0597	FLPRO CAL3 4250ppm	1H24311-CAL3	031F3201.D	08/30/11 22:47
11H0598	FLPRO CAL4 2550ppm	1H24311-CAL4	032F3301.D	08/30/11 23:20
11H0599	FLPRO CAL5 850ppm	1H24311-CAL5	033F3401.D	08/30/11 23:54
11H0600	FLPRO CAL6 85ppm	1H24311-CAL6	034F3501.D	08/31/11 00:27

INITIAL CALIBRATION DATA
FLPRO

Laboratory:	Empirical Laboratories, LLC	SDG:	1109191
Client:	Tetra Tech NUS, Inc. (T010)	Project:	Navy Fuel Depot CTO JM46
Calibration:	1243002	Instrument:	GL-GCFID2
Matrix:	Water	Calibration Dates:	8/30/11 21:41 8/31/11 0:27

Compound	Level 01		Level 02		Level 03		Level 04		Level 05		Level 06	
	mg/L	RF	mg/L	RF	mg/L	RF	mg/L	RF	mg/L	RF	mg/L	RF
Petroleum Range Organics	8500	1367.553	5950	1277.278	4250	1381.156	2550	1597.373	850	1453.173	85	1443.988
2-Fluorobiphenyl	50	1932.34	35	1958.657	25	1880.36	15	2120.8	5	1894	0.5	2000
o-Terphenyl	50	2210.16	35	2201.343	25	2077.16	15	2317.067	5	2003.6	0.5	2166
Petroleum Range Organics	8500	1367.553	5950	1277.278	4250	1381.156	2550	1597.373	850	1453.173	85	1443.988
2-Fluorobiphenyl	50	1932.34	35	1958.657	25	1880.36	15	2120.8	5	1894	0.5	2000
o-Terphenyl	50	2210.16	35	2201.343	25	2077.16	15	2317.067	5	2003.6	0.5	2166

INITIAL CALIBRATION DATA (Continued)

FLPRO

Laboratory:	Empirical Laboratories, LLC	SDG:	1109191
Client:	Tetra Tech NUS, Inc. (T010)	Project:	Navy Fuel Depot CTO JM46
Calibration:	1243002	Instrument:	GL-GCFID2
Matrix:	Water	Calibration Dates:	8/30/11 21:41 8/31/11 0:27

Compound	Mean RF	RF RSD	Mean RT	RT RSD	Linear r	Quad COD	LIMIT	Q
Petroleum Range Organics	1420.087	7.56897	4.493	1.875118E-02			20	
2-Fluorobiphenyl	1964.36	4.484919	9.2185	3.150788E-02			20	
o-Terphenyl	2162.555	5.0746	11.388	0.1219855			20	
Petroleum Range Organics	1420.087	7.56897	4.493	1.875118E-02			20	
2-Fluorobiphenyl	1964.36	4.484919	9.2185	3.150788E-02			20	
o-Terphenyl	2162.555	5.0746	11.388	0.1219855			20	

INITIAL CALIBRATION CHECK

FLPRO

Laboratory:	Empirical Laboratories, LLC	SDG:	1109191
Client:	Tetra Tech NUS, Inc. (T010)	Project:	Navy Fuel Depot CTO JM46
Instrument ID:	GL-GCFID2	Calibration:	1243002
Lab File ID:	035F3601.D	Calibration Date:	08/30/11 21:41
Sequence:	1H24311	Injection Date:	08/31/11
Lab Sample ID:	1H24311-ICV1	Injection Time:	01:00

		CONC. (mg/L)		RESPONSE FACTOR			% DIFF / DRIFT	
COMPOUND	TYPE	STD	ICV	ICAL	ICV	MIN (#)	ICV	LIMIT (#)
Petroleum Range Organics	A	4000	4004	1420.087	1421.456		0.1	25

Column to be used to flag Response Factor and %Diff/Drift values with an asterisk

* Values outside of QC limits

CONTINUING CALIBRATION CHECK

FLPRO

Laboratory:	Empirical Laboratories, LLC	SDG:	1109191
Client:	Tetra Tech NUS, Inc. (T010)	Project:	Navy Fuel Depot CTO JM46
Instrument ID:	GL-GCFID2	Calibration:	1243002
Lab File ID:	002F0201.D	Calibration Date:	08/30/11 21:41
Sequence:	1J27605	Injection Date:	09/30/11
Lab Sample ID:	1J27605-CCV1	Injection Time:	13:39

		CONC. (mg/L)		RESPONSE FACTOR			% DIFF / DRIFT	
COMPOUND	TYPE	STD	CCV	ICAL	CCV	MIN (#)	CCV	LIMIT (#)
Petroleum Range Organics	A	4250	3514	1420.087	1174.353		-17.3	25
2-Fluorobiphenyl	A	25.00	14.34	1964.36	1127.2		-42.6	25 *
o-Terphenyl	A	25.00	21.09	2162.555	1824.28		-15.6	25

Column to be used to flag Response Factor and %Diff/Drift values with an asterisk

* Values outside of QC limits

CONTINUING CALIBRATION CHECK

FLPRO

Laboratory:	Empirical Laboratories, LLC	SDG:	1109191
Client:	Tetra Tech NUS, Inc. (T010)	Project:	Navy Fuel Depot CTO JM46
Instrument ID:	GL-GCFID2	Calibration:	1243002
Lab File ID:	017F1701.D	Calibration Date:	08/30/11 21:41
Sequence:	1J27605	Injection Date:	09/30/11
Lab Sample ID:	1J27605-CCV2	Injection Time:	21:58

		CONC. (mg/L)		RESPONSE FACTOR			% DIFF / DRIFT	
COMPOUND	TYPE	STD	CCV	ICAL	CCV	MIN (#)	CCV	LIMIT (#)
Petroleum Range Organics	A	4250	5397	1420.087	1803.468		27.0	25 *
2-Fluorobiphenyl	A	25.00	25.13	1964.36	1974.76		0.5	25
o-Terphenyl	A	25.00	32.65	2162.555	2824.28		30.6	25 *

Column to be used to flag Response Factor and %Diff/Drift values with an asterisk

* Values outside of QC limits

CONTINUING CALIBRATION CHECK

FLPRO

Laboratory:	Empirical Laboratories, LLC	SDG:	1109191
Client:	Tetra Tech NUS, Inc. (T010)	Project:	Navy Fuel Depot CTO JM46
Instrument ID:	GL-GCFID2	Calibration:	1243002
Lab File ID:	032F3201.D	Calibration Date:	08/30/11 21:41
Sequence:	1J27605	Injection Date:	10/01/11
Lab Sample ID:	1J27605-CCV3	Injection Time:	06:14

		CONC. (mg/L)		RESPONSE FACTOR			% DIFF / DRIFT	
COMPOUND	TYPE	STD	CCV	ICAL	CCV	MIN (#)	CCV	LIMIT (#)
Petroleum Range Organics	A	4250	5029	1420.087	1680.494		18.3	25
2-Fluorobiphenyl	A	25.00	21.83	1964.36	1715.6		-12.7	25
o-Terphenyl	A	25.00	30.64	2162.555	2650.2		22.5	25

Column to be used to flag Response Factor and %Diff/Drift values with an asterisk

* Values outside of QC limits

SURROGATE STANDARD RECOVERY AND RT SUMMARY

FLPRO

Laboratory:	Empirical Laboratories, LLC	SDG:	1109191
Client:	Tetra Tech NUS, Inc. (T010)	Project:	Navy Fuel Depot CTO JM46
Sequence:	1J27605	Instrument:	GL-GCFID2
		Calibration:	1243002

Surrogate Compound	Spike Level	% Recovery	Recovery Limits	RT	CCV RT	RT Diff	RT Diff Limit	Q
Calibration Check (1J27605-CCV1) mg/L				Lab File ID: 002F0201.D		Analyzed: 09/30/11 13:39		
2-Fluorobiphenyl	25.00	57.4	75 - 125	9.176	9.176	0.0000	+/-0.050	*
o-Terphenyl	25.00	84.4	75 - 125	11.343	11.343	0.0000	+/-0.050	
Blank (1I27031-BLK1) mg/L				Lab File ID: 003F0301.D		Analyzed: 09/30/11 14:12		
2-Fluorobiphenyl	0.05000	65.0	50 - 150	9.203	9.176	0.0270	+/-0.050	
o-Terphenyl	0.05000	89.2	82 - 142	11.346	11.343	0.0030	+/-0.050	
LCS (1I27031-BS1) mg/L				Lab File ID: 004F0401.D		Analyzed: 09/30/11 14:46		
2-Fluorobiphenyl	0.05000	63.5	50 - 150	9.176	9.176	0.0000	+/-0.050	
o-Terphenyl	0.05000	100	82 - 142	11.346	11.343	0.0030	+/-0.050	
LCS Dup (1I27031-BSD1) mg/L				Lab File ID: 005F0501.D		Analyzed: 09/30/11 15:19		
2-Fluorobiphenyl	0.05000	70.2	50 - 150	9.173	9.176	-0.0030	+/-0.050	
o-Terphenyl	0.05000	105	82 - 142	11.333	11.343	-0.0100	+/-0.050	
FLC-4-RB01-092211 (1109191-10) mg/L				Lab File ID: 006F0601.D		Analyzed: 09/30/11 15:52		
2-Fluorobiphenyl	0.04673	151	50 - 150	9.166	9.176	-0.0100	+/-0.050	*
o-Terphenyl	0.04673	206	82 - 142	11.333	11.343	-0.0100	+/-0.050	*
Calibration Check (1J27605-CCV2) mg/L				Lab File ID: 017F1701.D		Analyzed: 09/30/11 21:58		
2-Fluorobiphenyl	25.00	101	75 - 125	9.156	9.176	-0.0200	+/-0.050	
o-Terphenyl	25.00	131	75 - 125	11.28	11.343	-0.0630	+/-0.050	*
Blank (1I28003-BLK1) mg/Kg wet				Lab File ID: 018F1801.D		Analyzed: 09/30/11 22:31		
2-Fluorobiphenyl	3.333	87.7	50 - 150	9.163	9.176	-0.0130	+/-0.050	
o-Terphenyl	3.333	120	35 - 140	11.28	11.343	-0.0630	+/-0.050	*
LCS (1I28003-BS1) mg/Kg wet				Lab File ID: 019F1901.D		Analyzed: 09/30/11 23:04		
2-Fluorobiphenyl	3.333	87.2	50 - 150	9.156	9.176	-0.0200	+/-0.050	
o-Terphenyl	3.333	121	35 - 140	11.286	11.343	-0.0570	+/-0.050	*
FLC-4-SS01-0006-092211 (1109191-01) mg/Kg dry				Lab File ID: 020F2001.D		Analyzed: 09/30/11 23:37		
2-Fluorobiphenyl	3.273	11.1	50 - 150	9.13	9.176	-0.0460	+/-0.050	*
o-Terphenyl	3.273	79.5	35 - 140	11.29	11.343	-0.0530	+/-0.050	*
FLC-4-SS01-0624-092211 (1109191-02) mg/Kg dry				Lab File ID: 021F2101.D		Analyzed: 10/01/11 00:10		
2-Fluorobiphenyl	3.468		50 - 150		9.176	-9.1760	+/-0.050	*
o-Terphenyl	3.468	59.1	35 - 140	11.316	11.343	-0.0270	+/-0.050	
Matrix Spike (1I28003-MS1) mg/Kg dry				Lab File ID: 022F2201.D		Analyzed: 10/01/11 00:43		
2-Fluorobiphenyl	3.356	159	50 - 150	9.243	9.176	0.0670	+/-0.050	*
o-Terphenyl	3.356	86.2	35 - 140	11.293	11.343	-0.0500	+/-0.050	

SURROGATE STANDARD RECOVERY AND RT SUMMARY

FLPRO

Laboratory:	Empirical Laboratories, LLC	SDG:	1109191
Client:	Tetra Tech NUS, Inc. (T010)	Project:	Navy Fuel Depot CTO JM46
Sequence:	1J27605	Instrument:	GL-GCFID2
		Calibration:	1243002

Surrogate Compound	Spike Level	% Recovery	Recovery Limits	RT	CCV RT	RT Diff	RT Diff Limit	Q
Matrix Spike Dup (1I28003-MSD1) mg/Kg dry				Lab File ID: 023F2301.D		Analyzed: 10/01/11 01:16		
2-Fluorobiphenyl	3.356	167	50 - 150	9.243	9.176	0.0670	+/-0.050	*
o-Terphenyl	3.356	89.0	35 - 140	11.29	11.343	-0.0530	+/-0.050	*
FLC-4-SB01-0204-092211 (1109191-03) mg/Kg dry				Lab File ID: 024F2401.D		Analyzed: 10/01/11 01:49		
2-Fluorobiphenyl	3.739	10.2	50 - 150	9.33	9.176	0.1540	+/-0.050	*
o-Terphenyl	3.739	21.1	35 - 140	11.29	11.343	-0.0530	+/-0.050	*
FLC-4-SS02-0006-092211 (1109191-04) mg/Kg dry				Lab File ID: 025F2501.D		Analyzed: 10/01/11 02:22		
2-Fluorobiphenyl	3.559	15.2	50 - 150	9.256	9.176	0.0800	+/-0.050	*
o-Terphenyl	3.559	92.9	35 - 140	11.286	11.343	-0.0570	+/-0.050	*
FLC-4-SS02-0624-092211 (1109191-05) mg/Kg dry				Lab File ID: 026F2601.D		Analyzed: 10/01/11 02:56		
2-Fluorobiphenyl	3.376	0.285	50 - 150	9.163	9.176	-0.0130	+/-0.050	*
o-Terphenyl	3.376	86.6	35 - 140	11.283	11.343	-0.0600	+/-0.050	*
FLC-4-SB02-0204-092211 (1109191-06) mg/Kg dry				Lab File ID: 027F2701.D		Analyzed: 10/01/11 03:29		
2-Fluorobiphenyl	3.542		50 - 150		9.176	-9.1760	+/-0.050	*
o-Terphenyl	3.542	86.8	35 - 140	11.303	11.343	-0.0400	+/-0.050	
Calibration Check (1J27605-CCV3) mg/L				Lab File ID: 032F3201.D		Analyzed: 10/01/11 06:14		
2-Fluorobiphenyl	25.00	87.3	75 - 125	9.153	9.176	-0.0230	+/-0.050	
o-Terphenyl	25.00	123	75 - 125	11.286	11.343	-0.0570	+/-0.050	*

HOLDING TIME SUMMARY
FLPRO

Laboratory: Empirical Laboratories, LLC SDG: 1109191

Client: Tetra Tech NUS, Inc. (T010) Project: Navy Fuel Depot CTO JM46

Sample Name	Date Collected	Date Received	Date Prepared	Days to Prep	Max Days to Prep	Date Analyzed	Days to Analysis	Max Days to Analysis	Q
FLC-4-SS01-0006-092211	09/22/11 08:45	09/24/11 09:00	09/28/11 13:20	6.19	14.00	09/30/11 23:37	2.43	40.00	
FLC-4-SS01-0624-092211	09/22/11 09:00	09/24/11 09:00	09/28/11 13:20	6.18	14.00	10/01/11 00:10	2.45	40.00	
FLC-4-SB01-0204-092211	09/22/11 09:25	09/24/11 09:00	09/28/11 13:20	6.16	14.00	10/01/11 01:49	2.52	40.00	
FLC-4-SS02-0006-092211	09/22/11 10:05	09/24/11 09:00	09/28/11 13:20	6.14	14.00	10/01/11 02:22	2.54	40.00	
FLC-4-SS02-0624-092211	09/22/11 10:20	09/24/11 09:00	09/28/11 13:20	6.13	14.00	10/01/11 02:56	2.57	40.00	
FLC-4-SB02-0204-092211	09/22/11 10:30	09/24/11 09:00	09/28/11 13:20	6.12	14.00	10/01/11 03:29	2.59	40.00	
FLC-4-RB01-092211	09/22/11 11:15	09/24/11 09:00	09/28/11 12:40	6.06	7.00	09/30/11 15:52	2.13	40.00	

ANALYSIS DATA SHEET

Blank

Laboratory:	Empirical Laboratories, LLC		SDG:	1109191	
Client:	Tetra Tech NUS, Inc. (T010)		Project:	Navy Fuel Depot CTO JM46	
Matrix:		Laboratory ID:	1I27031-BLK1	File ID:	003F0301.D
Sampled:		Prepared:		Analyzed:	09/30/11 14:12
Solids:		Preparation:	EXT_3510	Dilution:	

Batch: 1I27031 Sequence: 1J27605 Calibration: 1243002 Instrument: GL-GCFID2

CAS NO.	COMPOUND	CONC. (mg/L)	DL	LOD	LOQ	Q
	Petroleum Range Organics		0.170	0.340	0.680	X, U

SYSTEM MONITORING COMPOUND	ADDED (mg/L)	CONC (mg/L)	% REC	QC LIMITS	Q
2-Fluorobiphenyl	0.05000	0.03251	65.0	50 - 150	Y
o-Terphenyl	0.05000	0.04462	89.2	82 - 142	X

ANALYSIS DATA SHEET

LCS

Laboratory:	Empirical Laboratories, LLC			SDG:	1109191
Client:	Tetra Tech NUS, Inc. (T010)			Project:	Navy Fuel Depot CTO JM46
Matrix:		Laboratory ID:	1I27031-BS1	File ID:	004F0401.D
Sampled:		Prepared:		Analyzed:	09/30/11 14:46
Solids:		Preparation:	EXT_3510	Dilution:	

Batch: 1I27031 Sequence: 1J27605 Calibration: 1243002 Instrument: GL-GCFID2

CAS NO.	COMPOUND	CONC. (mg/L)	DL	LOD	LOQ	Q
	Petroleum Range Organics	2.596	0.170	0.340	0.680	X

SYSTEM MONITORING COMPOUND	ADDED (mg/L)	CONC (mg/L)	% REC	QC LIMITS	Q
2-Fluorobiphenyl	0.05000	0.03175	63.5	50 - 150	Y
o-Terphenyl	0.05000	0.04998	100	82 - 142	X

ANALYSIS DATA SHEET

LCS Dup

Laboratory:	Empirical Laboratories, LLC	SDG:	1109191
Client:	Tetra Tech NUS, Inc. (T010)	Project:	Navy Fuel Depot CTO JM46

Matrix:		Laboratory ID:	1I27031-BSD1	File ID:	005F0501.D
Sampled:		Prepared:		Analyzed:	09/30/11 15:19
Solids:		Preparation:	EXT_3510	Dilution:	

Batch:	1I27031	Sequence:	1J27605	Calibration:	1243002	Instrument:	GL-GCFID2

CAS NO.	COMPOUND	CONC. (mg/L)	DL	LOD	LOQ	Q
	Petroleum Range Organics	2.981	0.170	0.340	0.680	X

SYSTEM MONITORING COMPOUND	ADDED (mg/L)	CONC (mg/L)	% REC	QC LIMITS	Q
2-Fluorobiphenyl	0.05000	0.03511	70.2	50 - 150	Y
o-Terphenyl	0.05000	0.05254	105	82 - 142	X

ANALYSIS DATA SHEET

Blank

Laboratory:	Empirical Laboratories, LLC		SDG:	1109191	
Client:	Tetra Tech NUS, Inc. (T010)		Project:	Navy Fuel Depot CTO JM46	
Matrix:		Laboratory ID:	1I28003-BLK1	File ID:	018F1801.D
Sampled:		Prepared:		Analyzed:	09/30/11 22:31
Solids:		Preparation:	EXT_3546	Dilution:	

Batch: 1I28003 Sequence: 1J27605 Calibration: 1243002 Instrument: GL-GCFID2

CAS NO.	COMPOUND	ONC. (mg/Kg we	DL	LOD	LOQ	Q
	Petroleum Range Organics		11.0	22.0	44.0	X, U

SYSTEM MONITORING COMPOUND	ADDED (mg/Kg wet)	CONC (mg/Kg wet)	% REC	QC LIMITS	Q
2-Fluorobiphenyl	3.333	2.923	87.7	50 - 150	
o-Terphenyl	3.333	3.997	120	35 - 140	X

ANALYSIS DATA SHEET

LCS

Laboratory:	Empirical Laboratories, LLC	SDG:	1109191
Client:	Tetra Tech NUS, Inc. (T010)	Project:	Navy Fuel Depot CTO JM46

Matrix:		Laboratory ID:	1I28003-BS1	File ID:	019F1901.D
Sampled:		Prepared:		Analyzed:	09/30/11 23:04
Solids:		Preparation:	EXT_3546	Dilution:	

Batch:	1I28003	Sequence:	1J27605	Calibration:	1243002	Instrument:	GL-GCFID2

CAS NO.	COMPOUND	ONC. (mg/Kg we	DL	LOD	LOQ	Q
	Petroleum Range Organics	213.6	11.0	22.0	44.0	X

SYSTEM MONITORING COMPOUND	ADDED (mg/Kg wet)	CONC (mg/Kg wet)	% REC	QC LIMITS	Q
2-Fluorobiphenyl	3.333	2.906	87.2	50 - 150	
o-Terphenyl	3.333	4.030	121	35 - 140	X

ANALYSIS DATA SHEET

Matrix Spike

Laboratory:	Empirical Laboratories, LLC	SDG:	1109191
Client:	Tetra Tech NUS, Inc. (T010)	Project:	Navy Fuel Depot CTO JM46

Matrix:		Laboratory ID:	1I28003-MS1	File ID:	022F2201.D
Sampled:		Prepared:		Analyzed:	10/01/11 00:43
Solids:		Preparation:	EXT_3546	Dilution:	

Batch:	1I28003	Sequence:	1J27605	Calibration:	1243002	Instrument:	GL-GCFID2

CAS NO.	COMPOUND	ONC. (mg/Kg dr	DL	LOD	LOQ	Q
	Petroleum Range Organics	151.8	111	222	443	X, , D I

SYSTEM MONITORING COMPOUND	ADDED (mg/Kg dry)	CONC (mg/Kg dry)	% REC	QC LIMITS	Q
2-Fluorobiphenyl	3.356	5.346	159	50 - 150	
o-Terphenyl	3.356	2.893	86.2	35 - 140	X

ANALYSIS DATA SHEET

Matrix Spike Dup

Laboratory:	Empirical Laboratories, LLC		SDG:	1109191	
Client:	Tetra Tech NUS, Inc. (T010)		Project:	Navy Fuel Depot CTO JM46	
Matrix:		Laboratory ID:	1I28003-MSD1	File ID:	023F2301.D
Sampled:		Prepared:		Analyzed:	10/01/11 01:16
Solids:		Preparation:	EXT_3546	Dilution:	

Batch: 1I28003 Sequence: 1J27605 Calibration: 1243002 Instrument: GL-GCFID2

CAS NO.	COMPOUND	ONC. (mg/Kg dr	DL	LOD	LOQ	Q
	Petroleum Range Organics	162.6	111	222	443	X, , D I

SYSTEM MONITORING COMPOUND	ADDED (mg/Kg dry)	CONC (mg/Kg dry)	% REC	QC LIMITS	Q
2-Fluorobiphenyl	3.356	5.621	167	50 - 150	
o-Terphenyl	3.356	2.986	89.0	35 - 140	X

Data for FLPRO
Supporting Raw Data / Logs

Sequence: C:\HPCHEM\FID2\SEQUENCE\082911.S \GCFID-2 (FID) \8015DRO \FL PRO

Sequence Table (Front Injector):

PG. 435
8.31.11

Quantification Part:

Line	Location	SampleName	SampleAmount	ISTDAmt	Multiplier	Dilution
1	Vial 100	MeCl2 BLK				
2	Vial 1	INST BLK				
3	Vial 2	RT Marker				
4	Vial 3	SEQ-CAL1	I.D. #11H0604 (DRO)			
5	Vial 4	SEQ-CAL2	605			
6	Vial 5	SEQ-CAL3	606			
7	Vial 6	SEQ-CAL4	607			
8	Vial 7	SEQ-CAL5	608			
9	Vial 8	SEQ-CAL6	609			
10	Vial 9	SEQ-ICV1	610			
11	Vial 10	SEQ-CCV1	I.D. #11H0603 (DRO)			
12	Vial 11	1H12029-BLK1	x 1			
13	Vial 12	1H12029-BS1				
14	Vial 13	1H12029-BSD1				
15	Vial 14	1108138-01				
16	Vial 15	1H12029-MS1				
17	Vial 16	1H12029-MSD1				
18	Vial 17	1108138-02				
19	Vial 18	1108152-01				
20	Vial 19	1108152-03				
21	Vial 20	1108152-05				
22	Vial 21	1108152-07				
23	Vial 22	1108152-09				
24	Vial 23	SEQ-CCV2	I.D. #11H0603 (DRO)			
25	Vial 24	PRO Test1	← NOT USED			
26	Vial 25	1108153-09	x 1			
27	Vial 26	1108166-01	x 1			
28	Vial 27	SEQ-CCV3	I.D. #11H0603 (DRO)			
29	Vial 28	MeCl2 BLK				
30	Vial 29	SEQ-CAL1	I.D. #11H0595 (FL PRO)			
31	Vial 30	SEQ-CAL2	596			
32	Vial 31	SEQ-CAL3	597			
33	Vial 32	SEQ-CAL4	598			
34	Vial 33	SEQ-CAL5	599			
35	Vial 34	SEQ-CAL6	600			
36	Vial 35	SEQ-ICV1	601			
37	Vial 36	SEQ-CCV1	I.D. #11H0594 (FL PRO)			
38	Vial 37	1H19016-BLK1	x 1			
39	Vial 38	1H19016-BS1				
40	Vial 39	1H19016-MRL1				
41	Vial 40	1108214-01				
42	Vial 41	1H19016-MS1				
43	Vial 42	1H19016-MSD1				
44	Vial 43	1108214-02				
45	Vial 44	1108214-03				
46	Vial 45	1108214-04				
47	Vial 46	1108214-05				
48	Vial 47	1108214-06				
49	Vial 48	1108214-07				
50	Vial 49	1108214-08				
51	Vial 50	1108214-09				
52	Vial 51	1108214-10				
53	Vial 52	SEQ-CCV2	I.D. #11H0594 (FL PRO)			
54	Vial 53	1108214-11	x 1			
55	Vial 54	1108214-12				
56	Vial 55	1108214-13				
57	Vial 56	1108214-14				
58	Vial 57	1108214-18				
59	Vial 58	1108214-19				

FL PRO

JH. 9.1.11

Laboratory Name

Data file : \\ELABNSH05\TARGET\chem\gcfid2.i\082911.b\028F2902.D
Lab Smp Id: MeCl2 BLK
Inj Date : 30-AUG-2011 21:08
Operator : JH Inst ID: gcfid2.i
Smp Info : MeCl2 BLK
Misc Info :
Comment :
Method : \\ELABNSH05\TARGET\chem\gcfid2.i\082911.b\FLPROF.m
Meth Date : 31-Aug-2011 11:37 pcormier Quant Type: ESTD
Cal Date : 23-DEC-2008 20:47 Cal File: 009R0201.D
Als bottle: 28
Dil Factor: 1.00000
Integrator: Falcon Compound Sublist: all.sub
Target Version: 4.04
Processing Host: TARGET19_VM

Compounds	RT	EXP RT	DLT RT	RESPONSE	CONCENTRATIONS ON-COLUMN (mg/L)	CONCENTRATIONS FINAL (mg/L)

9/1/11

Data File: \\ELABNSH05\TARGET\chem\gcfid2.i\082911.b\028F2902.D

Page 2

Date : 30-AUG-2011 21:08

Client ID:

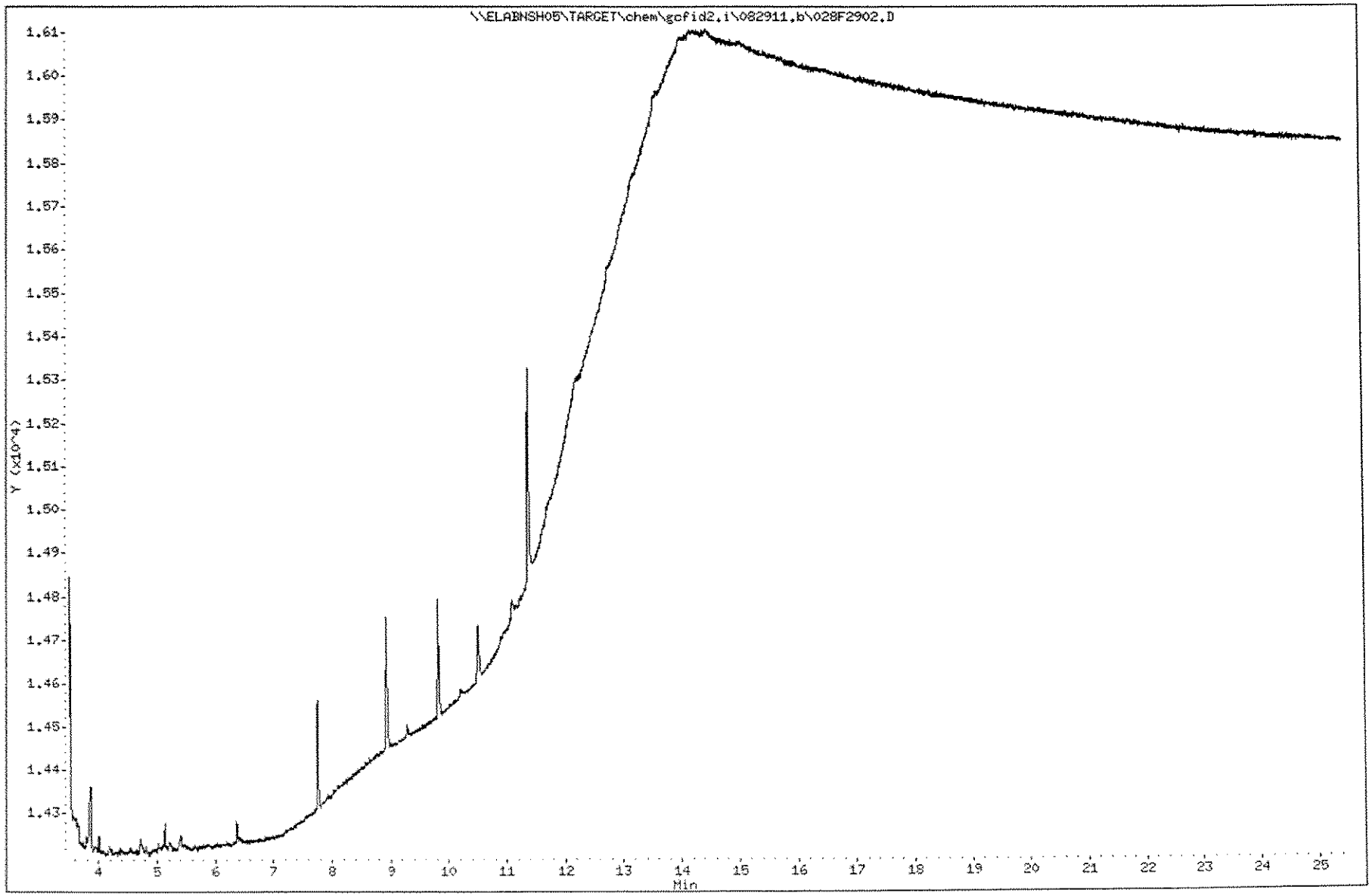
Instrument: gcfid2.i

Sample Info: HeCl2 BLK

Operator: JH

Column phase: ZB-5ms

Column diameter: 0.32



1584

1109191

J.H. 9.1.11

Laboratory Name

Data file : \\ELABNSH05\TARGET\chem\gcfid2.i\082911.b\029F3001.D
Lab Smp Id: SEQ-CAL1
Inj Date : 30-AUG-2011 21:41
Operator : JH Inst ID: gcfid2.i
Smp Info : SEQ-CAL1
Misc Info :
Comment :
Method : \\ELABNSH05\TARGET\chem\gcfid2.i\082911.b\FLPROF.m
Meth Date : 31-Aug-2011 11:37 pcormier Quant Type: ESTD
Cal Date : 23-DEC-2008 20:47 Cal File: 009R0201.D
Als bottle: 29 Calibration Sample, Level: 1
Dil Factor: 1.00000
Integrator: Falcon Compound Sublist: PROSURR.sub
Target Version: 4.04
Processing Host: TARGET19_VM

Compounds	RT	EXP RT	DLT RT	RESPONSE		AMOUNTS CAL-AMT (mg/L)	AMOUNTS ON-COL (mg/L)
$ 1 Petroleum Range	4.493-23.227			11624198	*	8500.00	8186
$ 2 2-Fluorobiphenyl	9.223	9.220	0.003	96617	X	50.0000	49.18
$ 3 Ortho-Terphenyl	11.403	11.367	0.036	110508		50.0000	51.10

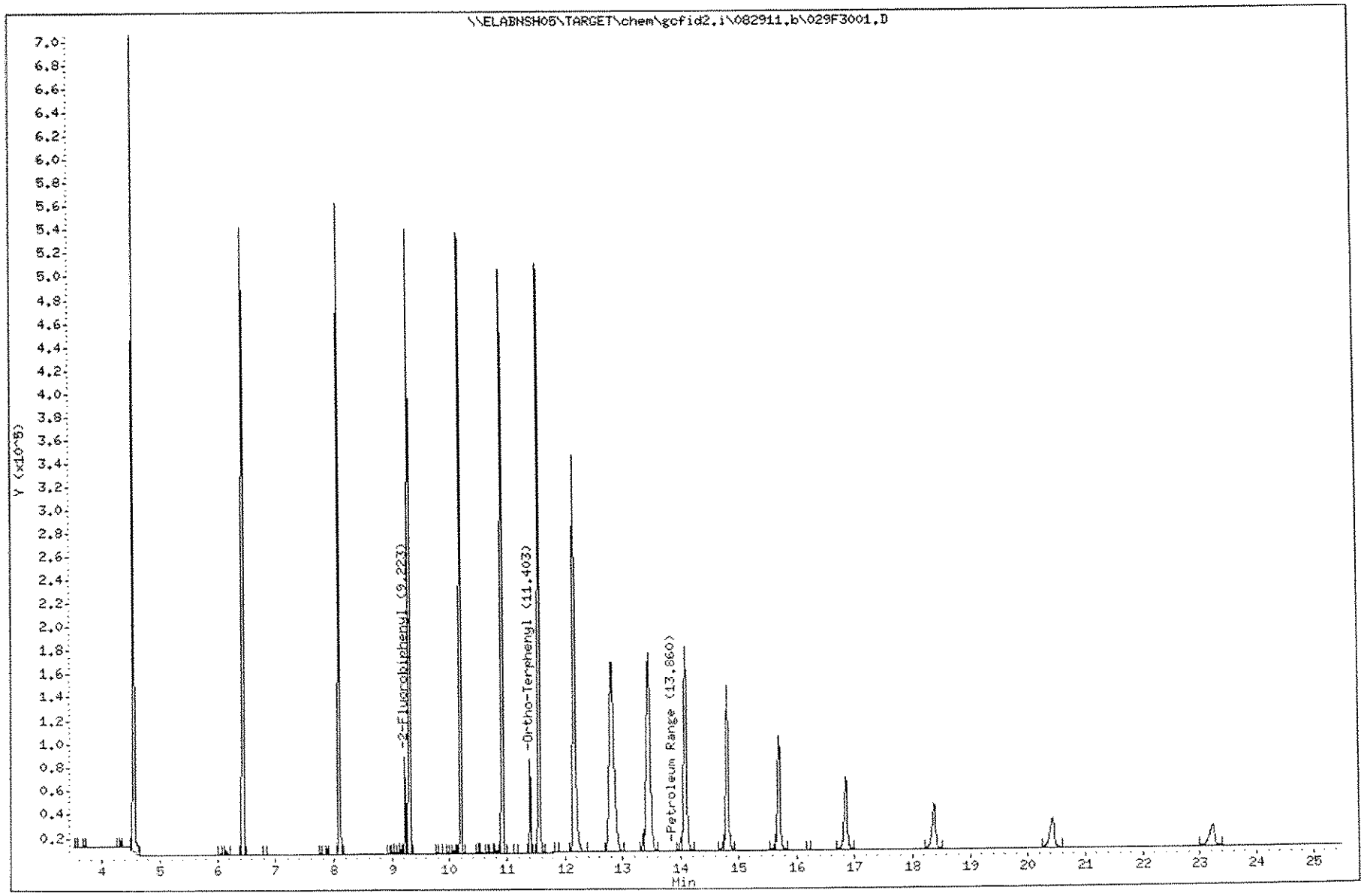
9/1/11

Data File: \\ELABNSH05\TARGET\chem\gcfid2.i\082911.b\029F3001.D
Date : 30-AUG-2011 21:41
Client ID:
Sample Info: SEQ-CAL1

Instrument: gcfid2.i

Operator: JH
Column diameter: 0.32

Column phase: ZB-5ms



J.H. 9.1.11

Laboratory Name

Data file : \\ELABNSH05\TARGET\chem\gcfid2.i\082911.b\030F3101.D
Lab Smp Id: SEQ-CAL2
Inj Date : 30-AUG-2011 22:14
Operator : JH Inst ID: gcfid2.i
Smp Info : SEQ-CAL2
Misc Info :
Comment :
Method : \\ELABNSH05\TARGET\chem\gcfid2.i\082911.b\FLPROF.m
Meth Date : 31-Aug-2011 11:37 pcormier Quant Type: ESTD
Cal Date : 23-DEC-2008 20:47 Cal File: 009R0201.D
Als bottle: 30 Calibration Sample, Level: 2
Dil Factor: 1.00000
Integrator: Falcon Compound Sublist: prosurr.sub
Target Version: 4.04
Processing Host: TARGET19_VM

Compounds	RT	EXP RT	DLT RT	RESPONSE	AMOUNTS CAL-AMT (mg/L)	AMOUNTS ON-COL (mg/L)
S 1 Petroleum Range	4.493-23.227			7999806 X	5950.00	5352
$ 2 2-Fluorobiphenyl	9.220	9.220	0.000	68553	35.0000	34.90
$ 3 Ortho-Terphenyl	11.393	11.367	0.026	77047 *	35.0000	35.63

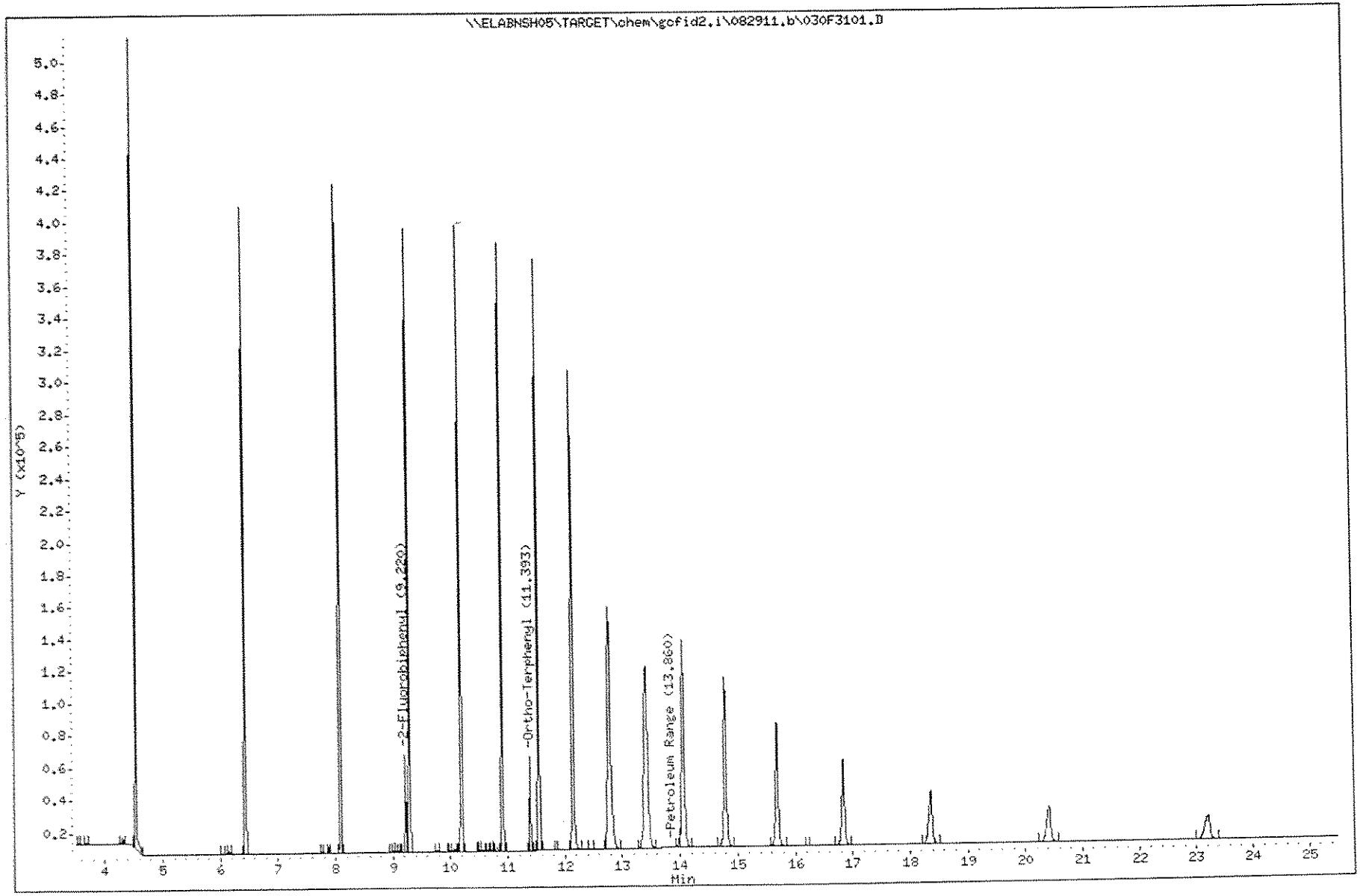
9/1/11

Data File: \\ELABNSH05\TARGET\chem\gcfid2.i\082911.b\030F3101.D
Date : 30-AUG-2011 22:14
Client ID:
Sample Info: SEQ-CAL2

Column phase: ZB-5ms

Instrument: gcfid2.i

Operator: JH
Column diameter: 0.32



J.H. 9.1.11

Laboratory Name

Data file : \\ELABNSH05\TARGET\chem\gcfid2.i\082911.b\031F3201.D
Lab Smp Id: SEQ-CAL3
Inj Date : 30-AUG-2011 22:47
Operator : JH Inst ID: gcfid2.i
Smp Info : SEQ-CAL3
Misc Info :
Comment :
Method : \\ELABNSH05\TARGET\chem\gcfid2.i\082911.b\FLPROF.m
Meth Date : 31-Aug-2011 11:37 pcormier Quant Type: ESTD
Cal Date : 23-DEC-2008 20:47 Cal File: 009R0201.D
Als bottle: 31 Calibration Sample, Level: 3
Dil Factor: 1.00000
Integrator: Falcon Compound Sublist: PROSURR.sub
Target Version: 4.04
Processing Host: TARGET19_VM

Compounds	RT	EXP RT	DLT RT	RESPONSE	AMOUNTS CAL-AMT (mg/L)	AMOUNTS ON-COL (mg/L)
S 1 Petroleum Range	4.493-23.227			5869913	4250.00	4133
$ 2 2-Fluorobiphenyl	9.220	9.220	0.000	47009 *	25.0000	23.93
$ 3 Ortho-Terphenyl	11.400	11.367	0.033	51929	25.0000	24.01

9/1/11

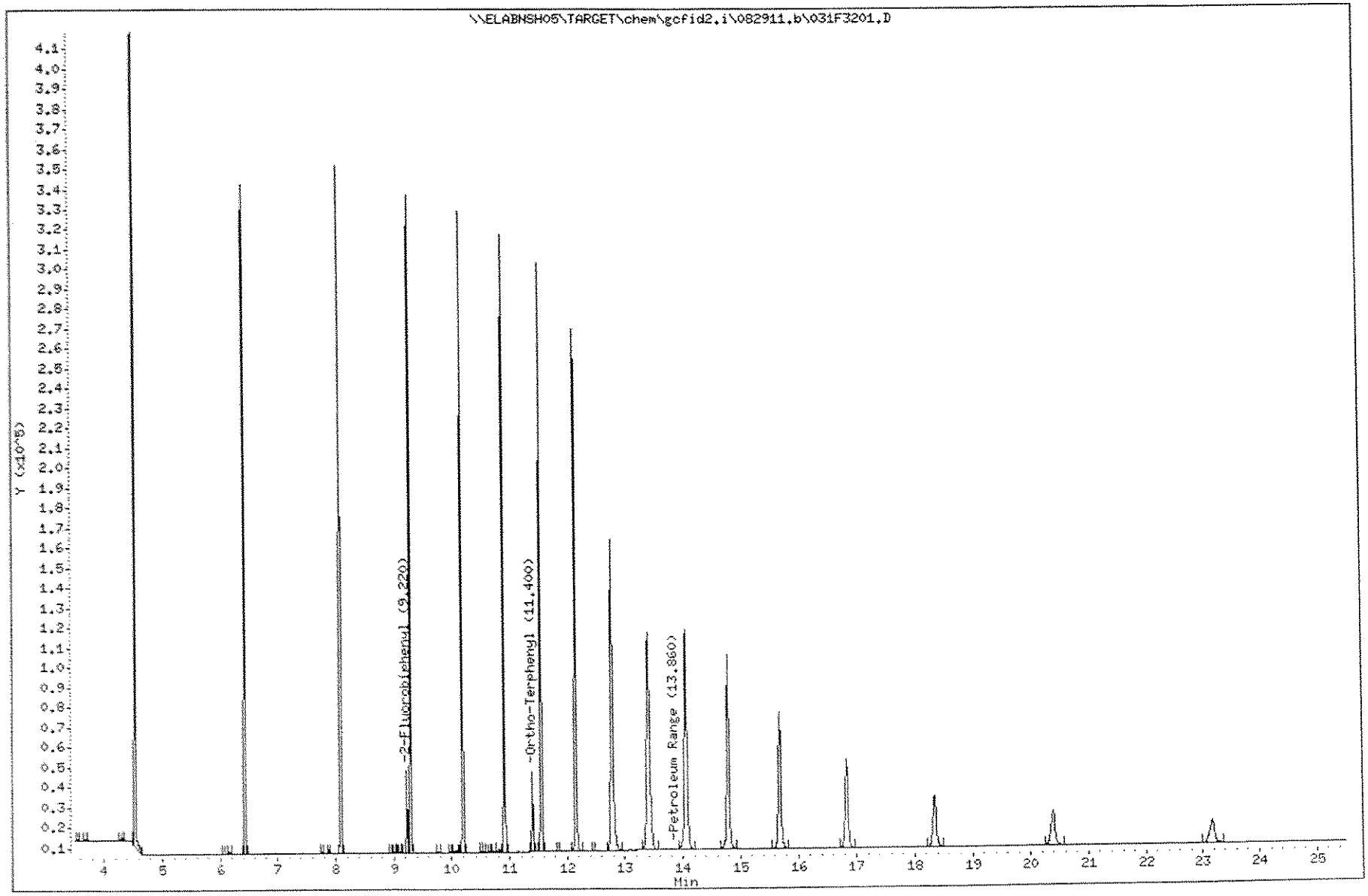
Data File: \\ELABNSH05\TARGET\chem\gcfid2.i\082911.b\031F3201.D
Date : 30-AUG-2011 22:47
Client ID:
Sample Info: SEQ-CAL3

Instrument: gcfid2.i

Operator: JH

Column phase: ZB-5ms

Column diameter: 0.32



J.H. 9.1.11

Laboratory Name

Data file : \\ELABNSH05\TARGET\chem\gcfid2.i\082911.b\032F3301.D
Lab Smp Id: SEQ-CAL4
Inj Date : 30-AUG-2011 23:20
Operator : JH Inst ID: gcfid2.i
Smp Info : SEQ-CAL4
Misc Info :
Comment :
Method : \\ELABNSH05\TARGET\chem\gcfid2.i\082911.b\FLPROF.m
Meth Date : 31-Aug-2011 11:37 pcormier Quant Type: ESTD
Cal Date : 23-DEC-2008 20:47 Cal File: 009R0201.D
Als bottle: 32 Calibration Sample, Level: 4
Dil Factor: 1.00000
Integrator: Falcon Compound Sublist: prosurr.sub
Target Version: 4.04
Processing Host: TARGET19_VM

Compounds	RT	EXP RT	DLT RT	RESPONSE		AMOUNTS CAL-AMT (mg/L)	AMOUNTS ON-COL (mg/L)
$ 1 Petroleum Range	4.493-23.227			4073302		2550.00	2868
$ 2 2-Fluorobiphenyl	9.216	9.220	-0.004	31812	*	15.0000	16.19
$ 3 Ortho-Terphenyl	11.386	11.367	0.019	34756		15.0000	16.07

9/1/11

Data File: \\ELABNSH05\TARGET\chem\gcfid2.i\082911.b\032F3301.D

Date : 30-AUG-2011 23:20

Client ID:

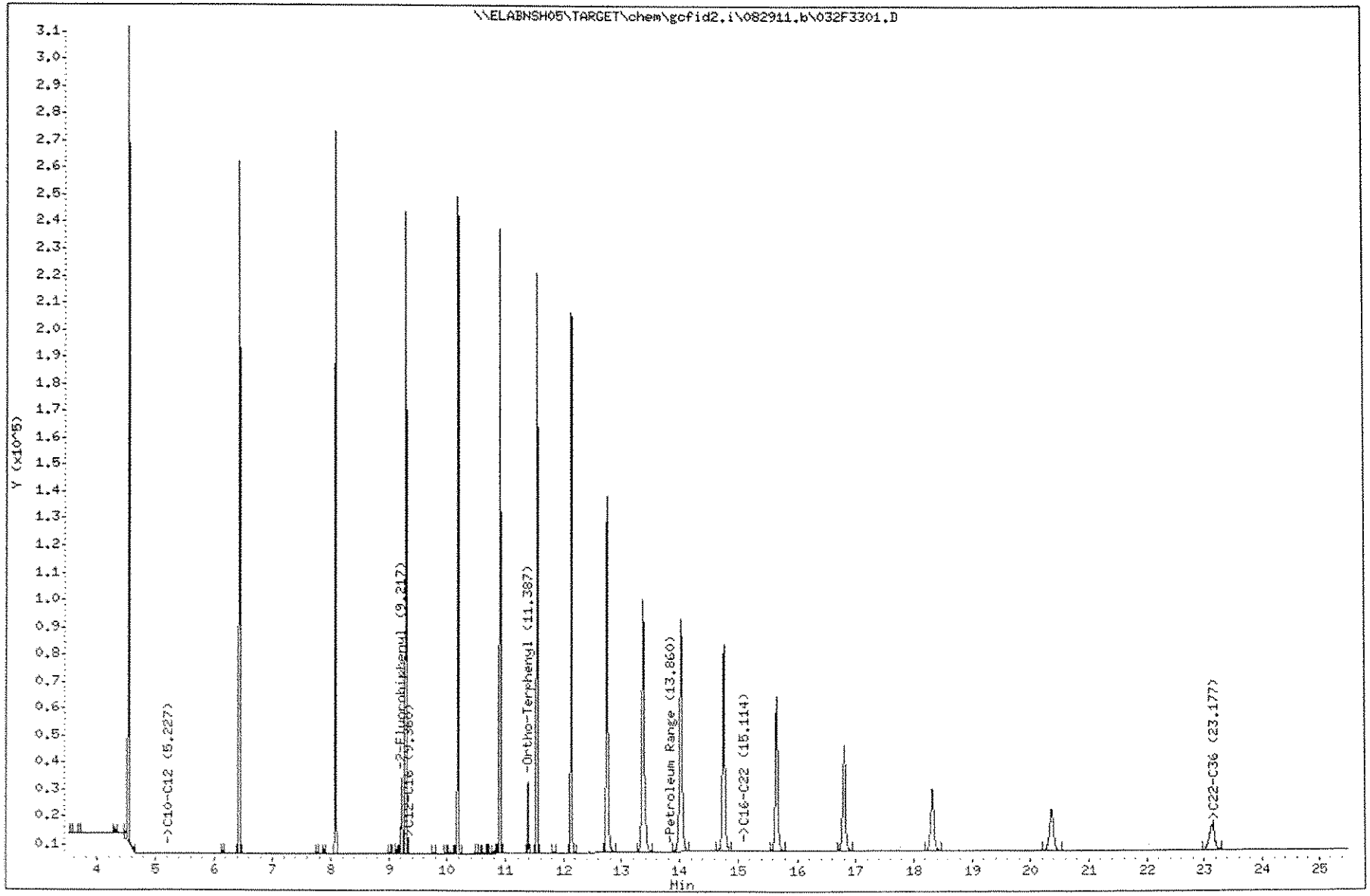
Instrument: gcfid2.i

Sample Info: SEQ-CAL4

Operator: JH

Column phase: ZB-5ms

Column diameter: 0.32



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1109191

J.H. 9-1-11

Laboratory Name

Data file : \\ELABNSH05\TARGET\chem\gcfid2.i\082911.b\033F3401.D
Lab Smp Id: SEQ-CAL5
Inj Date : 30-AUG-2011 23:54
Operator : JH Inst ID: gcfid2.i
Smp Info : SEQ-CAL5
Misc Info :
Comment :
Method : \\ELABNSH05\TARGET\chem\gcfid2.i\082911.b\FLPROF.m
Meth Date : 31-Aug-2011 11:37 pcormier Quant Type: ESTD
Cal Date : 23-DEC-2008 20:47 Cal File: 009R0201.D
Als bottle: 33 Calibration Sample, Level: 5
Dil Factor: 1.00000
Integrator: Falcon Compound Sublist: PROSURR.sub
Target Version: 4.04
Processing Host: TARGET19_VM

Compounds	RT	EXP RT	DLT RT	RESPONSE	AMOUNTS CAL-AMT (mg/L)	AMOUNTS ON-COL (mg/L)
$ 1 Petroleum Range	4.493	23.227		1235197	850.000	869.8
$ 2 2-Fluorobiphenyl	9.216	9.220	-0.004	9470 K	5.00000	4.821
$ 3 Ortho-Terphenyl	11.380	11.367	0.013	10018 *	5.00000	4.632

9/1/11

Data File: \\ELABNSH05\TARGET\chem\gcfid2.i\082911.b\033F3401.D

Date : 30-AUG-2011 23:54

Client ID:

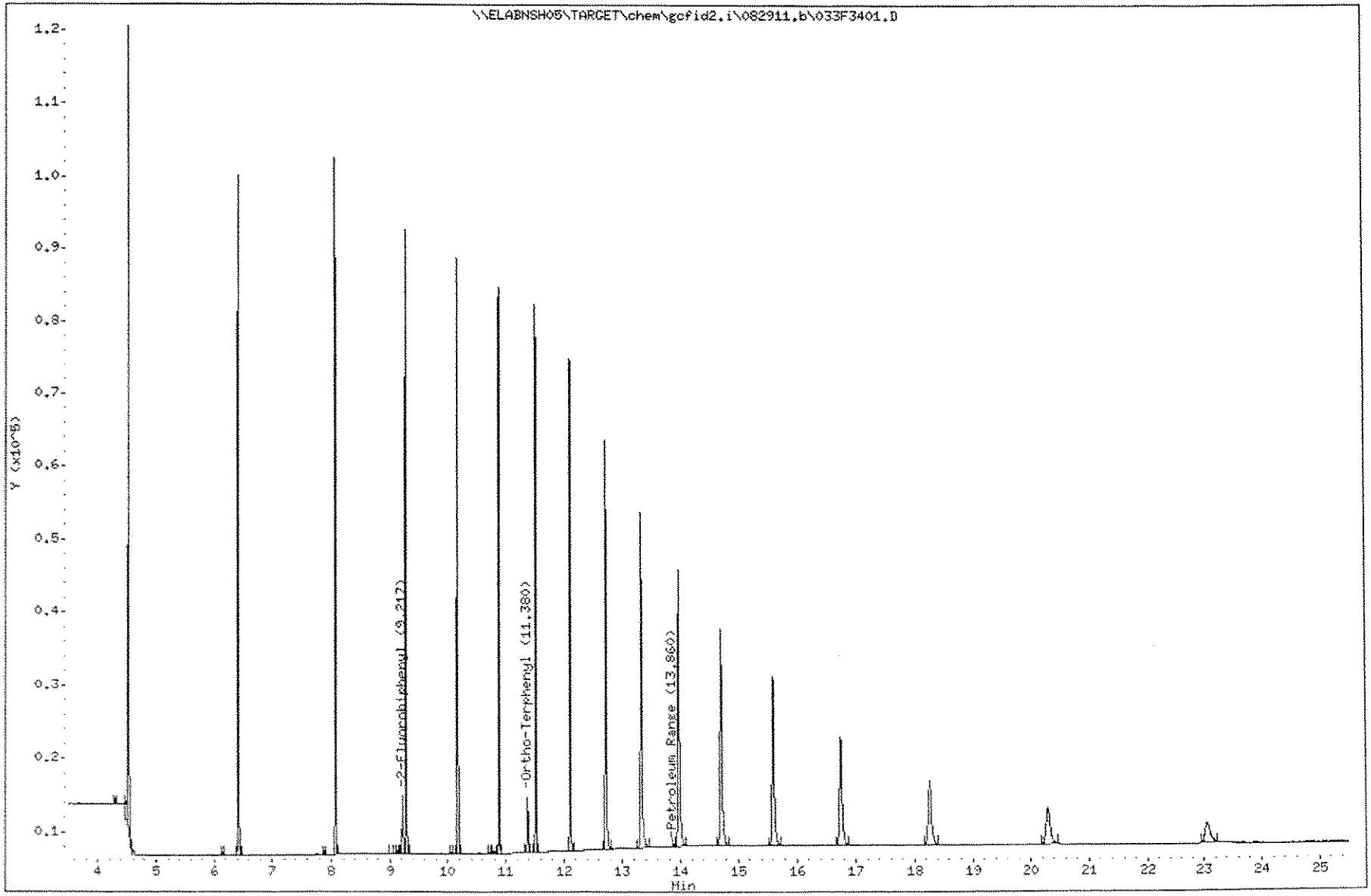
Instrument: gcfid2.i

Sample Info: SEQ-CAL5

Operator: JH

Column phase: ZB-5ms

Column diameter: 0.32



1594

1109191

J.H. 9-1-11

Laboratory Name

Data file : \\ELABNSH05\TARGET\chem\gcfid2.i\082911.b\034F3501.D
Lab Smp Id: SEQ-CAL6
Inj Date : 31-AUG-2011 00:27
Operator : JH Inst ID: gcfid2.i
Smp Info : SEQ-CAL6
Misc Info :
Comment :
Method : \\ELABNSH05\TARGET\chem\gcfid2.i\082911.b\FLPROF.m
Meth Date : 31-Aug-2011 11:37 pcormier Quant Type: ESTD
Cal Date : 23-DEC-2008 20:47 Cal File: 009R0201.D
Als bottle: 34 Calibration Sample, Level: 6
Dil Factor: 1.00000
Integrator: Falcon Compound Sublist: prosurr.sub
Target Version: 4.04
Processing Host: TARGET19_VM

Compounds	RT	EXP RT	DLT RT	RESPONSE	AMOUNTS CAL-AMT (mg/L)	AMOUNTS ON-COL (mg/L)
$ 1 Petroleum Range	4.493	23.227		122739 *	85.0000	86.43
$ 2 2-Fluorobiphenyl	9.216	9.220	-0.004	1000	0.50000	0.5091
$ 3 Ortho-Terphenyl	11.366	11.367	-0.001	1083 X	0.50000	0.5008

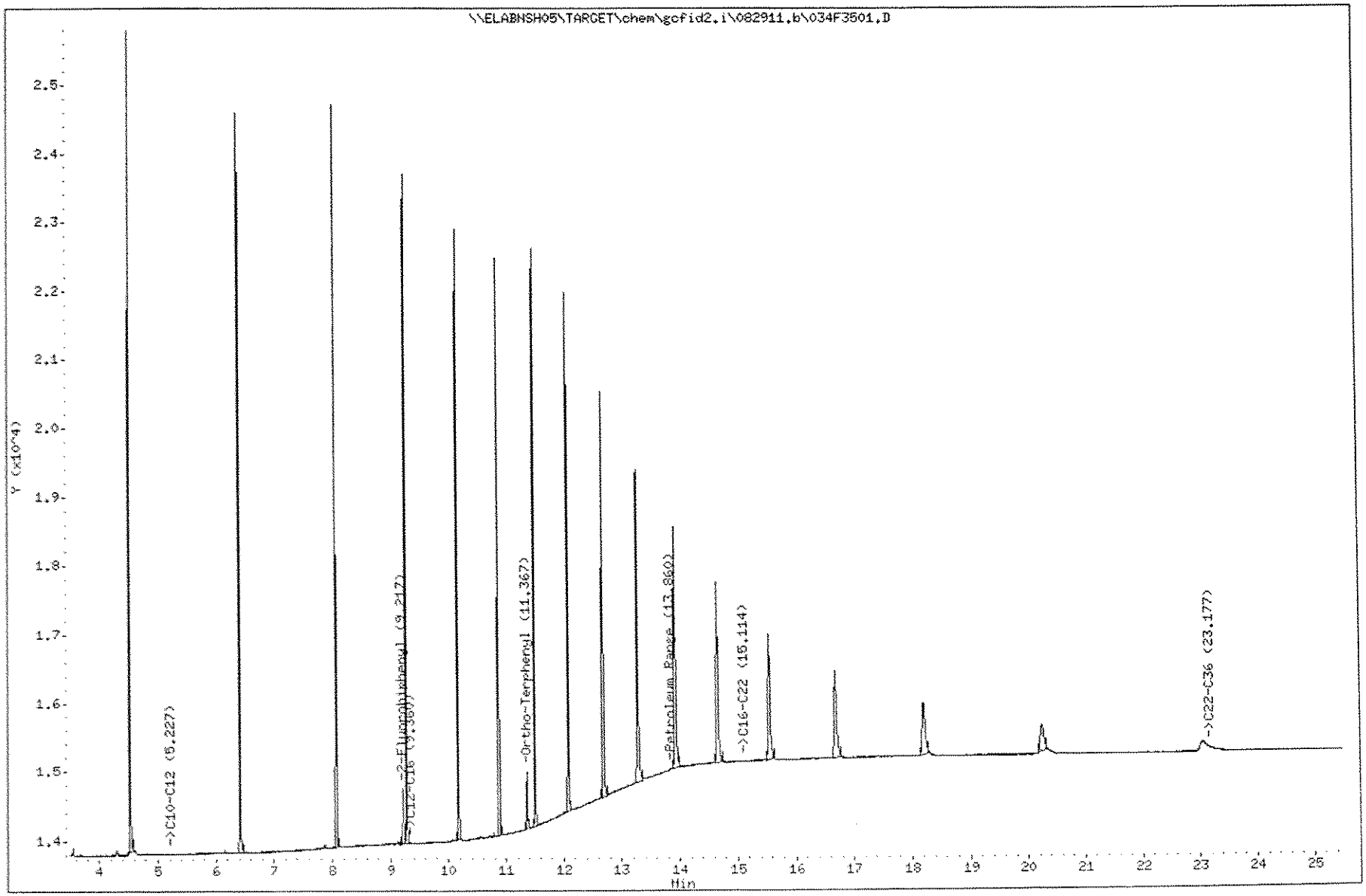
9/1/11

Data File: \\ELABNSHO5\TARGET\chem\gcfid2.i\082911.b\034F3501.D
Date : 31-AUG-2011 00:27
Client ID:
Sample Info: SEQ-CAL6

Column phase: ZB-5ms

Instrument: gcfid2.i

Operator: JH
Column diameter: 0.32



1596

1109191

J.H. 9.1.11

Laboratory Name

Data file : \\ELABNSH05\TARGET\chem\gcfid2.i\082911.b\035F3601.D
Lab Smp Id: SEQ-ICV1
Inj Date : 31-AUG-2011 01:00
Operator : JH Inst ID: gcfid2.i
Smp Info : SEQ-ICV1
Misc Info :
Comment :
Method : \\ELABNSH05\TARGET\chem\gcfid2.i\082911.b\FLPROF.m
Meth Date : 31-Aug-2011 11:56 pcormier Quant Type: ESTD
Cal Date : 23-DEC-2008 20:47 Cal File: 009R0201.D
Als bottle: 35 Continuing Calibration Sample
Dil Factor: 1.00000
Integrator: Falcon Compound Sublist: range.sub
Target Version: 4.04
Processing Host: TARGET19_VM

Compounds	RT	EXP RT	DLT RT	RESPONSE	AMOUNTS CAL-AMT (mg/L)	AMOUNTS ON-COL (mg/L)
S 1 Petroleum Range	4.493-23.227			5685825	~~4250.00~~ 4000	4004

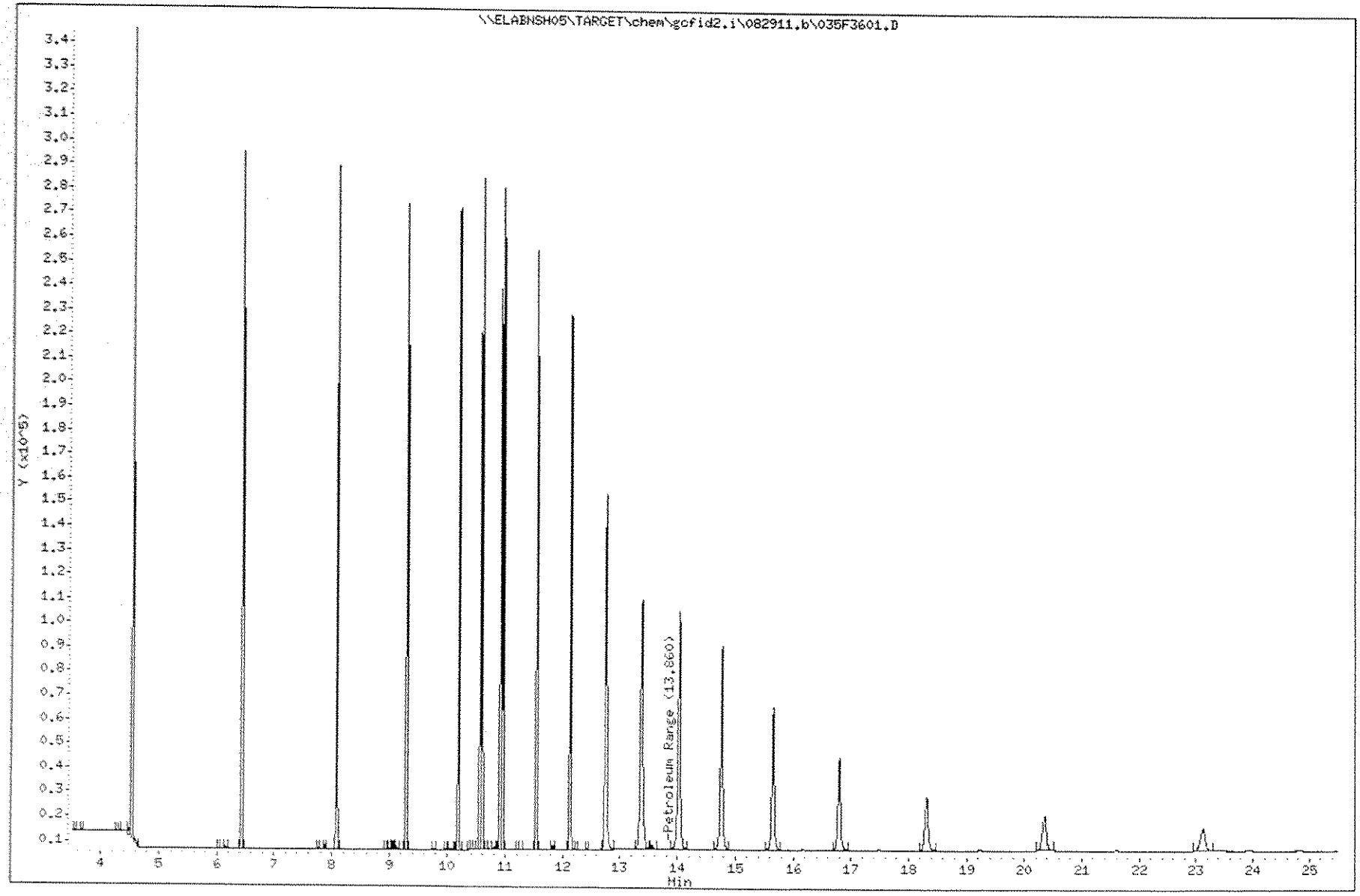
9/1/11

Data File: \\ELABNSH05\TARGET\chem\gcfid2.i\082911.b\035F3601.D
Date : 31-AUG-2011 01:00
Client ID:
Sample Info: SEQ-ICV1

Column phase: ZB-5ms

Instrument: gcfid2.i

Operator: JH
Column diameter: 0.32



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1109191

Sequence Table (Front Injector):

FCPRO 09/30/11

Quantification Part:

Line	Location	SampleName	SampleAmount	ISTDAmt	Multiplier	Dilution
1	Vial 1	INST BLK				
2	Vial 2	SEQ-CCV1 11H0594				
3	Vial 3	1I27031-BLK1				
4	Vial 4	1I27031-BS1				
5	Vial 5	1I27031-BSD1				
6	Vial 6	1109191-10				
7	Vial 7	1109192-12				
8	Vial 8	1I28004-BLK1				
9	Vial 9	1I28004-BS1				
10	Vial 10	1109192-16@50				
11	Vial 11	1I28004-MS1@50				
12	Vial 12	1I28004-MSD1@50				
13	Vial 13	1109192-17@50				
14	Vial 14	1109192-18@10				
15	Vial 15	1109192-19@50				
16	Vial 16	1109192-20@10				
17	Vial 17	SEQ-CCV2 11H0594				
18	Vial 18	1I28003-BLK1				
19	Vial 19	1I28003-BS1				
20	Vial 20	1109191-01@10				
21	Vial 21	1109191-02@10				
22	Vial 22	1I28003-MS1@10				
23	Vial 23	1I28003-MSD1@10				
24	Vial 24	1109191-03				
25	Vial 25	1109191-04@10				
26	Vial 26	1109191-05@10				
27	Vial 27	1109191-06@10				
28	Vial 28	1109192-01@50				
29	Vial 29	1109192-02@10				
30	Vial 30	1109192-03@10				
31	Vial 31	1109192-04@50				
32	Vial 32	SEQ-CCV3 11H0594				
33	Vial 33	1109192-05@10				
34	Vial 34	1109192-06@50				
35	Vial 35	1109192-07@10				
36	Vial 36	1109192-08@50				
37	Vial 37	1109192-09				
38	Vial 38	1109192-10				
39	Vial 39	1109192-11@50				
40	Vial 40	1109192-13@50				
41	Vial 41	1109192-14@50				
42	Vial 42	1109192-15@50				
43	Vial 43	SEQ-CCV4 11H0594				

Cat 10/3/11

Sequence Table (Back Injector):

No entries - empty table!

Laboratory Name

Data file : \\ELABNSH05\TARGET\chem\gcfid2.i\093011.b\001F0102.D
Lab Smp Id: INST BLK
Inj Date : 30-SEP-2011 13:06
Operator : CAT
Inst ID: gcfid2.i
Smp Info : INST BLK
Misc Info :
Comment :
Method : \\ELABNSH05\TARGET\chem\gcfid2.i\093011.b\FLPROF.m
Meth Date : 03-Oct-2011 17:45 cthompson
Quant Type: ESTD
Cal Date : 23-DEC-2008 20:47
Cal File: 009R0201.D
Als bottle: 1
Dil Factor: 1.00000
Integrator: Falcon
Compound Sublist: PROSURR.sub
Target Version: 4.04
Processing Host: TARGET08_VM

Compounds	RT	EXP RT	DLT RT	RESPONSE	CONCENTRATIONS ON-COLUMN (mg/L)	CONCENTRATIONS FINAL (mg/L)

C_8: 4.270 - 0.05 = 4.220

C_{40}: 22.477 + 0.05 = 22.527

2FL: 9.177

OTP: 11.343

10/4/11

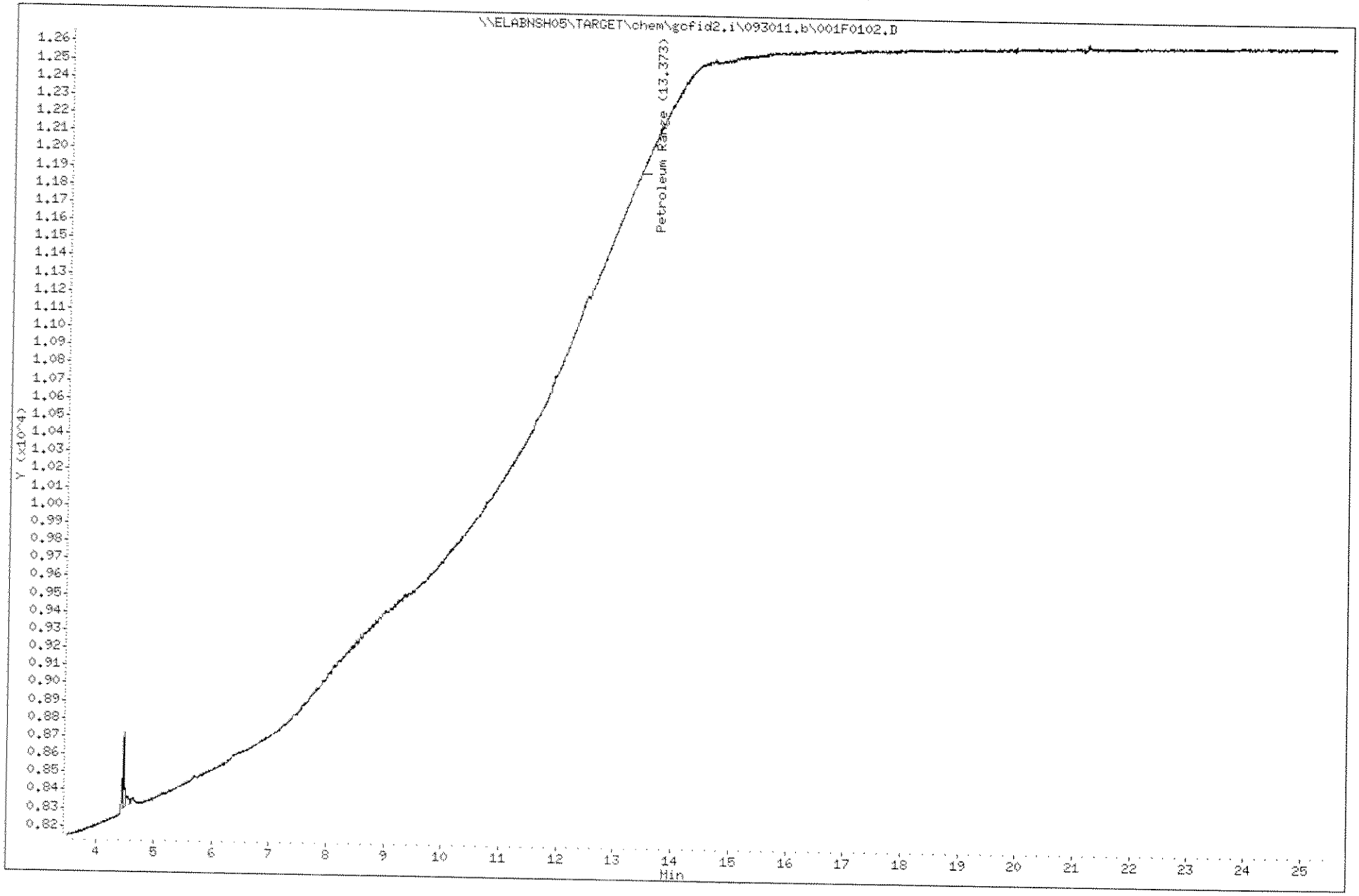
Cat
10/3/11

Data File: \\ELABNSH05\TARGET\chem\gcfid2.i\093011.b\001F0102.D
Date : 30-SEP-2011 13:06
Client ID:
Sample Info: INST BLK

Column phase: ZB-5ms

Instrument: gcfid2.i

Operator: CAT
Column diameter: 0.32



1601

1109191

Laboratory Name

Data file : \\ELABNSH05\TARGET\chem\gcfid2.i\093011.b\002F0201.D
Lab Smp Id: SEQ-CCV1
Inj Date : 30-SEP-2011 13:39
Operator : CAT
Smp Info : SEQ-CCV1
Misc Info :
Comment :
Method : \\ELABNSH05\TARGET\chem\gcfid2.i\093011.b\FLPROF.m
Meth Date : 03-Oct-2011 17:46 cthompson
Cal Date : 23-DEC-2008 20:47
Als bottle: 2
Dil Factor: 1.00000
Integrator: Falcon
Target Version: 4.04
Processing Host: TARGET08_VM

Inst ID: gcfid2.i
Quant Type: ESTD
Cal File: 009R0201.D
Continuing Calibration Sample
Compound Sublist: PROSURR.sub

Compounds	RT	EXP RT	DLT RT	RESPONSE	AMOUNTS CAL-AMT (mg/L)	AMOUNTS ON-COL (mg/L)
S 1 Petroleum Range	4.219	22.527		¥ 4991002	4250.00	3514
$ 2 2-Fluorobiphenyl	9.176	9.177	-0.001	28180	25.0000	14.34
$ 3 Ortho-Terphenyl	11.343	11.343	0.000	45607 *	25.0000	21.09

10/4/11

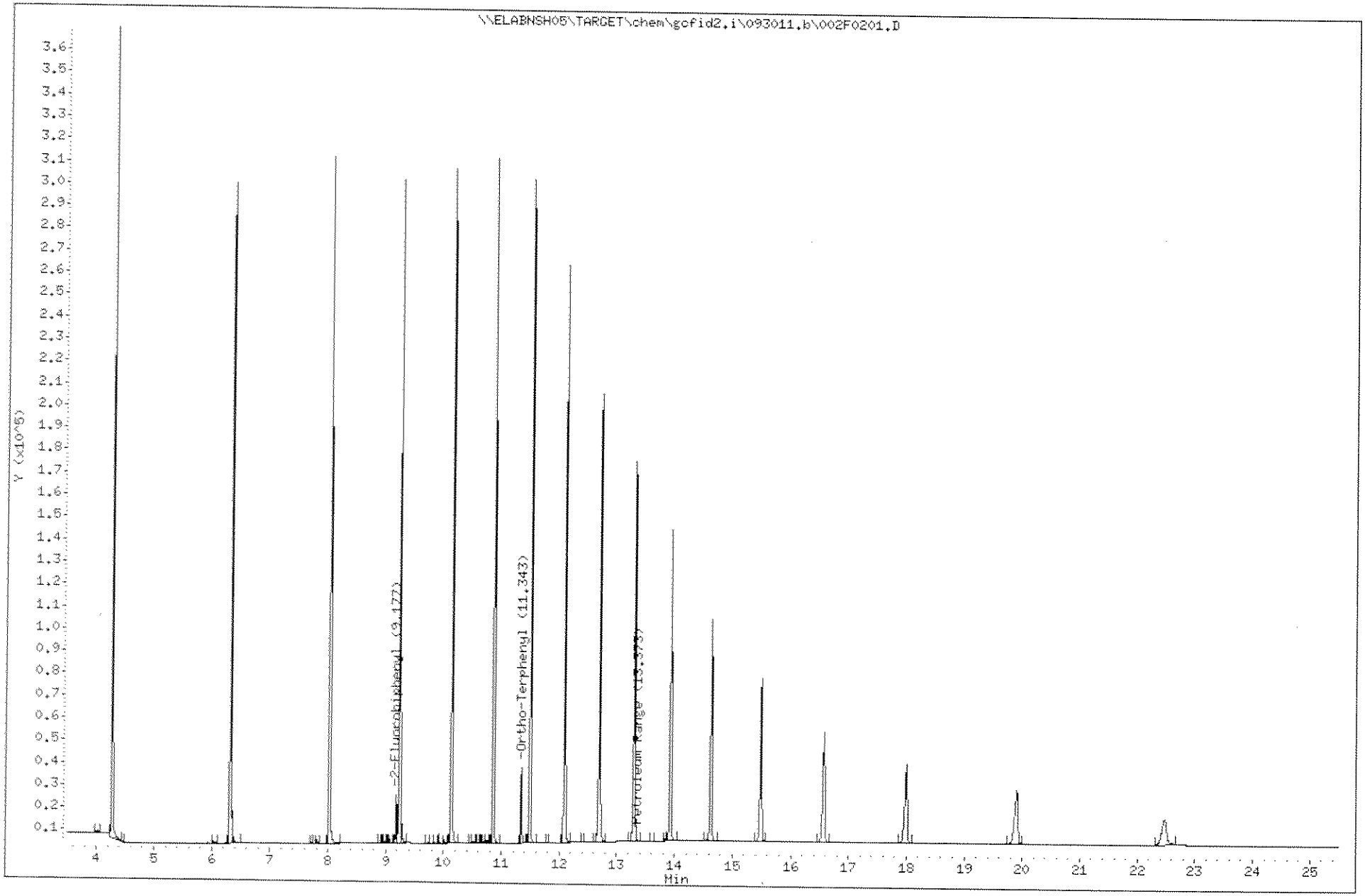
Cat 10/3/11

Data File: \\ELABNSH05\TARGET\chem\gcfid2.i\093011.b\002F0201.D
Date : 30-SEP-2011 13:39
Client ID:
Sample Info: SEQ-CCV1

Column phase: ZB-5ms

Instrument: gcfid2.i

Operator: CAT
Column diameter: 0.32



Laboratory Name

Data file : \\ELABNSH05\TARGET\chem\gcfid2.i\093011.b\003F0301.D
Lab Smp Id: 1I27031-BLK1
Inj Date : 30-SEP-2011 14:12
Operator : CAT Inst ID: gcfid2.i
Smp Info : 1I27031-BLK1
Misc Info :
Comment :
Method : \\ELABNSH05\TARGET\chem\gcfid2.i\093011.b\FLPROF.m
Meth Date : 03-Oct-2011 17:46 cthompson Quant Type: ESTD
Cal Date : 23-DEC-2008 20:47 Cal File: 009R0201.D
Als bottle: 3
Dil Factor: 1.00000
Integrator: Falcon Compound Sublist: PROSURR.sub
Target Version: 4.04
Processing Host: TARGET08_VM

Compounds	RT	EXP RT	DLT RT	RESPONSE	CONCENTRATIONS ON-COLUMN (mg/L)	FINAL (mg/L)
$ 2 2-Fluorobiphenyl	9.203	9.177	0.026	31932	16.2557	16.26(RM)
$ 3 Ortho-Terphenyl	11.346	11.343	0.003	48244	22.3088	22.31(RM)

QC Flag Legend

R - Spike/Surrogate failed recovery limits.
M - Compound response manually integrated.

Cat 10/5/11

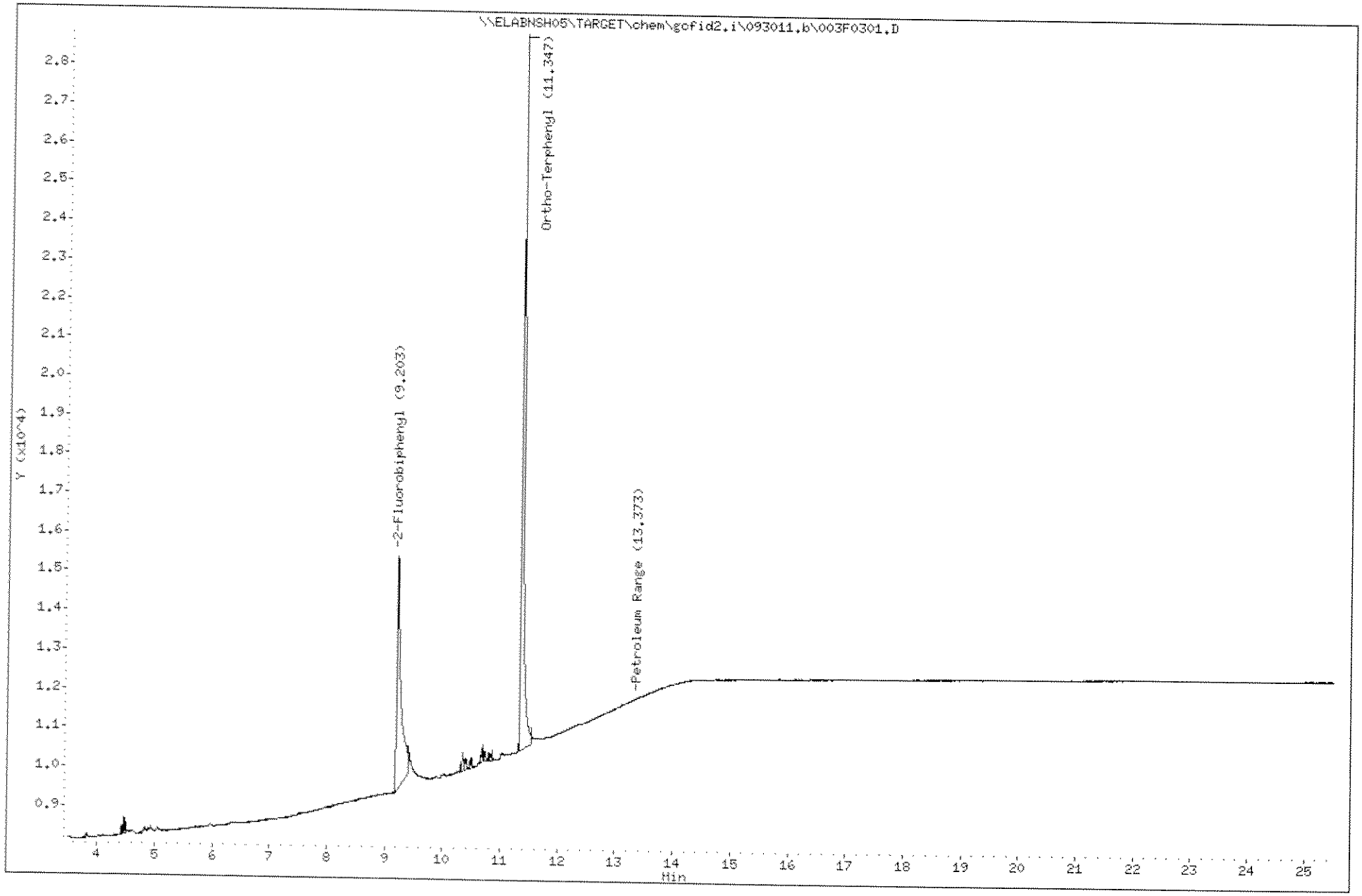
10/4/11

Data File: \\ELABNSH05\TARGET\chem\gcfid2.i\093011.b\003F0301.D
Date : 30-SEP-2011 14:12
Client ID:
Sample Info: 1I27031-BLK1

Column phase: ZB-5ms

Instrument: gcfid2.i

Operator: CAT
Column diameter: 0.32



1605

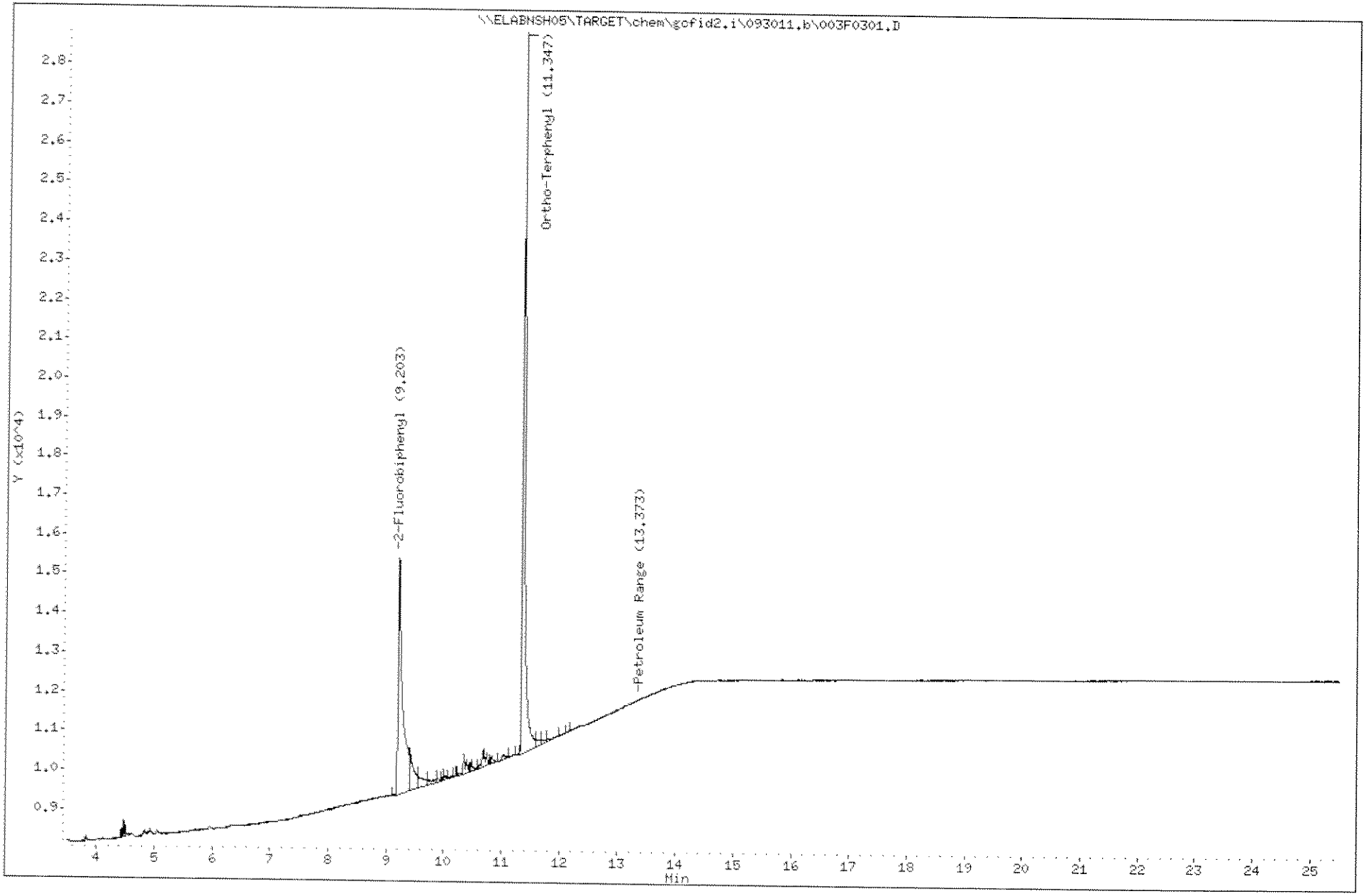
1109191

Data File: \\ELABNSH05\TARGET\chem\gcfid2.i\093011.b\003F0301.D
Date : 30-SEP-2011 14:12
Client ID:
Sample Info: 1I27031-BLK1

Column phase: ZB-5ms

Instrument: gcfid2.i

Operator: CAT
Column diameter: 0.32



1606

1109191

Laboratory Name

Data file : \\ELABNSH05\TARGET\chem\gcfid2.i\093011.b\004F0401.D
Lab Smp Id: 1I27031-BS1
Inj Date : 30-SEP-2011 14:46
Operator : CAT
Smp Info : 1I27031-BS1
Misc Info :
Comment :
Method : \\ELABNSH05\TARGET\chem\gcfid2.i\093011.b\FLPROF.m
Meth Date : 03-Oct-2011 17:46 cthompson
Cal Date : 23-DEC-2008 20:47
Als bottle: 4
Dil Factor: 1.00000
Integrator: Falcon
Target Version: 4.04
Processing Host: TARGET08_VM

Inst ID: gcfid2.i
Quant Type: ESTD
Cal File: 009R0201.D
Compound Sublist: PROSURR.sub

Compounds	RT	EXP RT	DLT RT	RESPONSE	CONCENTRATIONS ON-COLUMN (mg/L)	CONCENTRATIONS FINAL (mg/L)
S 1 Petroleum Range	4.219-22.527			1843287	1298.01	1298
$ 2 2-Fluorobiphenyl	9.176	9.177	-0.001	31188	15.8769	15.88(R)
$ 3 Ortho-Terphenyl	11.346	11.343	0.003	54040	24.9890	24.99(R)

QC Flag Legend

R - Spike/Surrogate failed recovery limits.

10/4/11

Cat 10/3/11

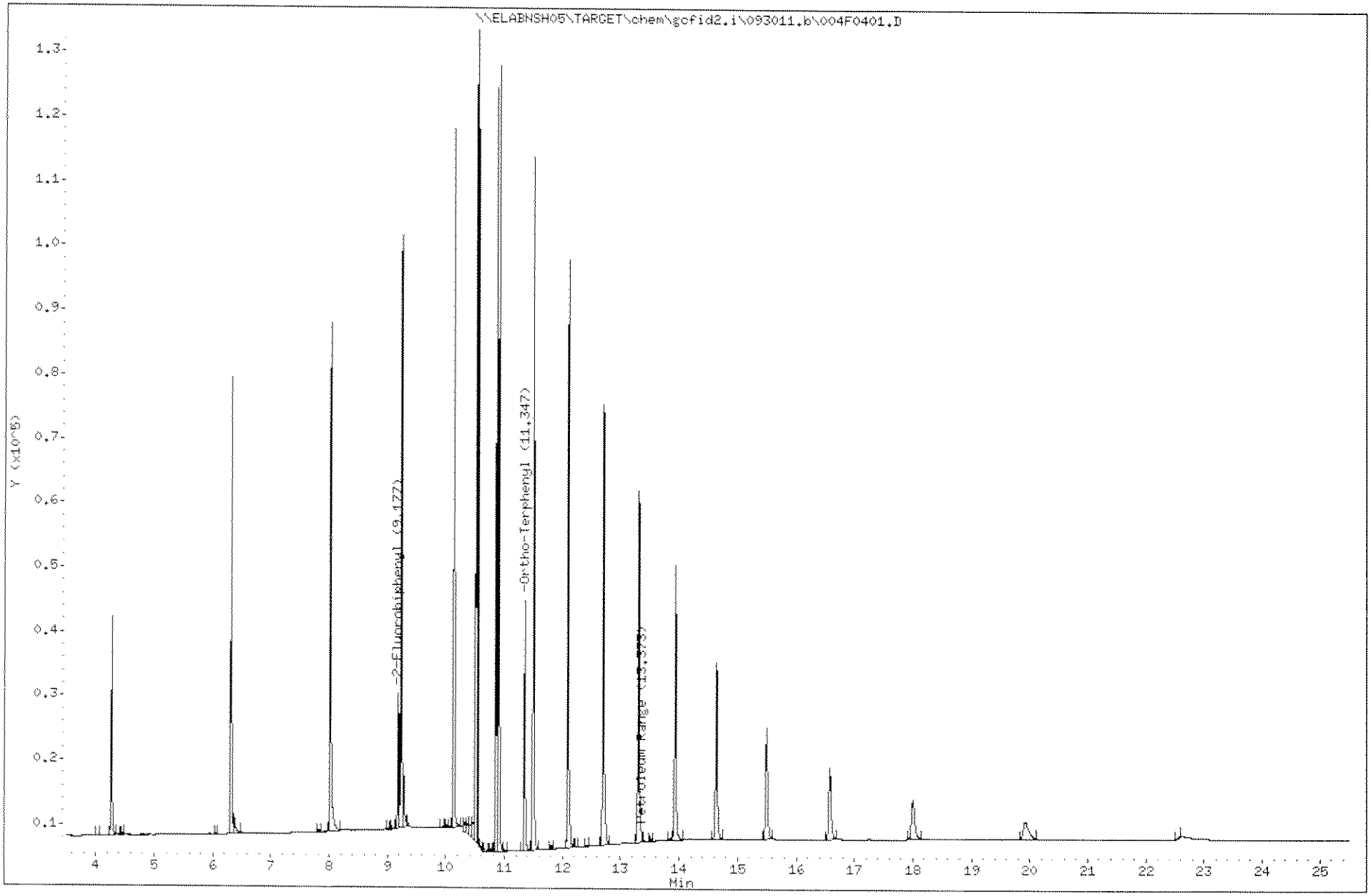
$\frac{1843287}{1420} = 1298.09$

Data File: \\ELABNSH05\TARGET\chem\gcfid2.i\093011.b\004F0401.D
Date : 30-SEP-2011 14:46
Client ID:
Sample Info: 1I27031-BS1

Column phase: ZB-5ms

Instrument: gcfid2.i

Operator: CAT
Column diameter: 0.32



1608

1109191

Laboratory Name

Data file : \\ELABNSH05\TARGET\chem\gcfid2.i\093011.b\005F0501.D
Lab Smp Id: 1I27031-BSD1
Inj Date : 30-SEP-2011 15:19
Operator : CAT Inst ID: gcfid2.i
Smp Info : 1I27031-BSD1
Misc Info :
Comment :
Method : \\ELABNSH05\TARGET\chem\gcfid2.i\093011.b\FLPROF.m
Meth Date : 03-Oct-2011 17:46 cthompson Quant Type: ESTD
Cal Date : 23-DEC-2008 20:47 Cal File: 009R0201.D
Als bottle: 5
Dil Factor: 1.00000
Integrator: Falcon Compound Sublist: PROSURR.sub
Target Version: 4.04
Processing Host: TARGET08_VM

Compounds	RT	EXP RT	DLT RT	RESPONSE	CONCENTRATIONS ON-COLUMN (mg/L)	CONCENTRATIONS FINAL (mg/L)
S 1 Petroleum Range	4.219-22.527			2116674	1490.52	1490
$ 2 2-Fluorobiphenyl	9.173	9.177	-0.004	34487	17.5564	17.56(R)
$ 3 Ortho-Terphenyl	11.333	11.343	-0.010	56808	26.2689	26.27(R)

QC Flag Legend

R - Spike/Surrogate failed recovery limits.

10/4/11

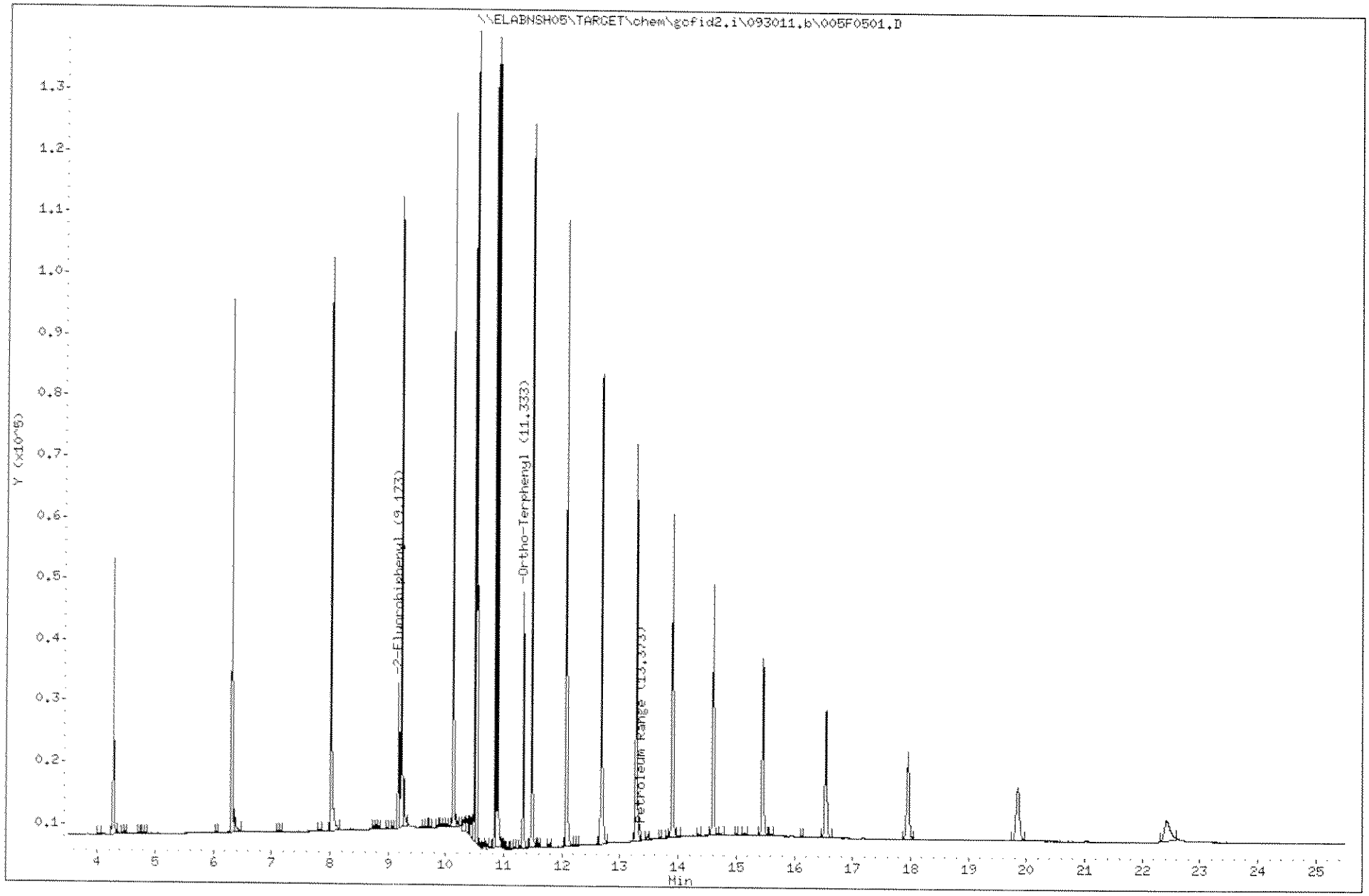
Cat 10/3/11

Data File: \\ELABNSH05\TARGET\chem\gcfid2.i\093011.b\005F0501.D
Date : 30-SEP-2011 15:19
Client ID:
Sample Info: 1I270J1-BSD1

Column phase: ZB-5ms

Instrument: gcfid2.i

Operator: CAT
Column diameter: 0.32



1610

1109191

Laboratory Name

Data file : \\ELABNSH05\TARGET\chem\gcfid2.i\093011.b\006F0601.D
Lab Smp Id: 1109191-10 Client Smp ID: FLC-4-RB01-092211
Inj Date : 30-SEP-2011 15:52
Operator : CAT Inst ID: gcfid2.i
Smp Info : 1109191-10
Misc Info :
Comment :
Method : \\ELABNSH05\TARGET\chem\gcfid2.i\093011.b\FLPROF.m
Meth Date : 03-Oct-2011 17:46 cthompson Quant Type: ESTD
Cal Date : 23-DEC-2008 20:47 Cal File: 009R0201.D
Als bottle: 6
Dil Factor: 1.00000
Integrator: Falcon Compound Sublist: PROSURR.sub
Target Version: 4.04
Processing Host: TARGET08_VM

Compounds	RT	EXP RT	DLT RT	RESPONSE	CONCENTRATIONS ON-COLUMN (mg/L)	FINAL (mg/L)
$ 2 2-Fluorobiphenyl	9.166	9.177	-0.011	73928	37.6347	37.63(RM)
$ 3 Ortho-Terphenyl	11.333	11.343	-0.010	111204	51.4225	51.42(RM)

QC Flag Legend

R - Spike/Surrogate failed recovery limits.
M - Compound response manually integrated.

10/4/11

10/4/11

Data File: \\ELABNSH05\TARGET\chem\gcfid2.i\093011.b\006F0601.D

Date : 30-SEP-2011 15:52

Client ID: FLC-4-RB01-092211

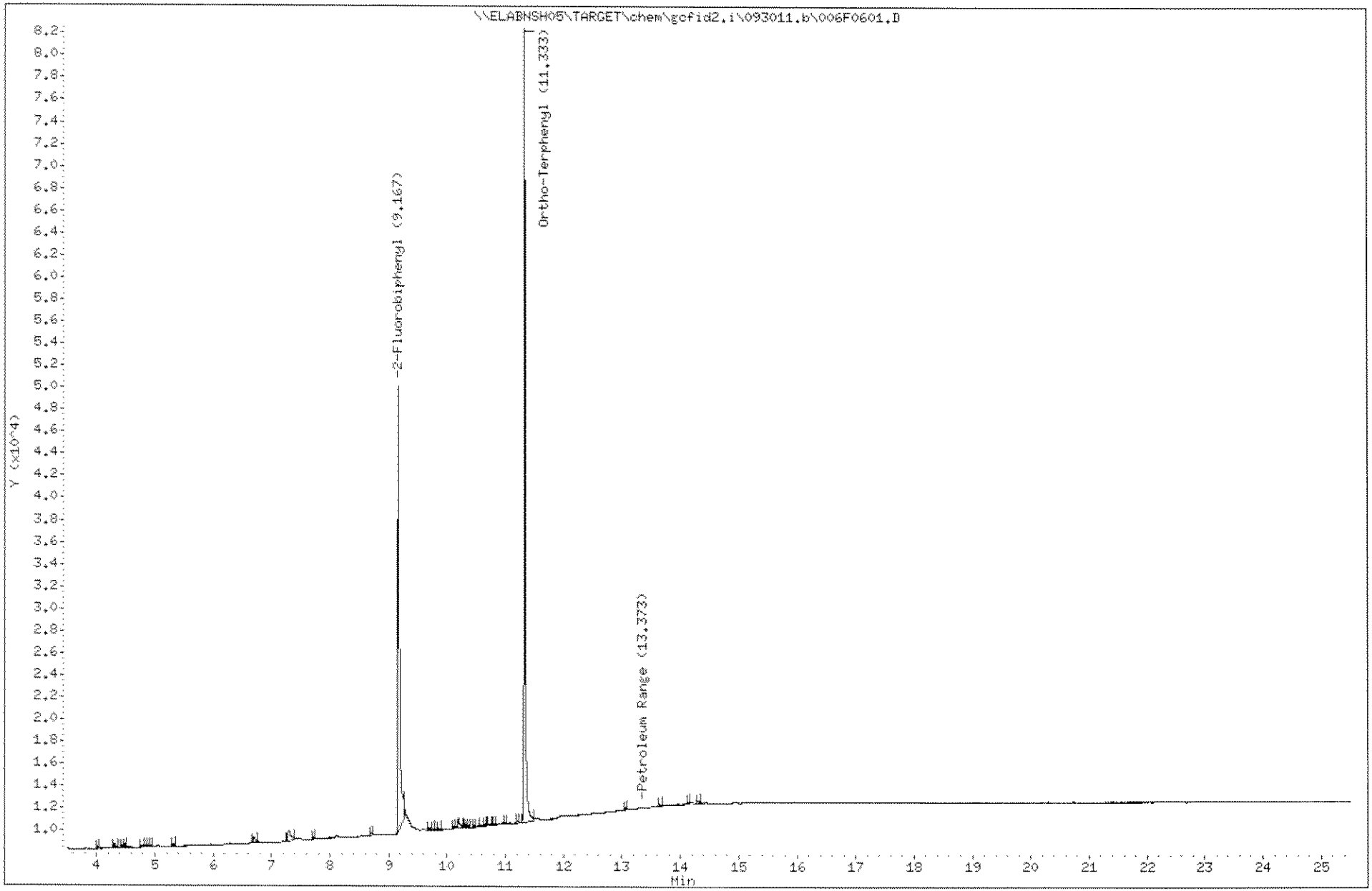
Instrument: gcfid2.i

Sample Info: 1109191-10

Operator: CAT

Column phase: ZB-5ms

Column diameter: 0.32



1612

1109191

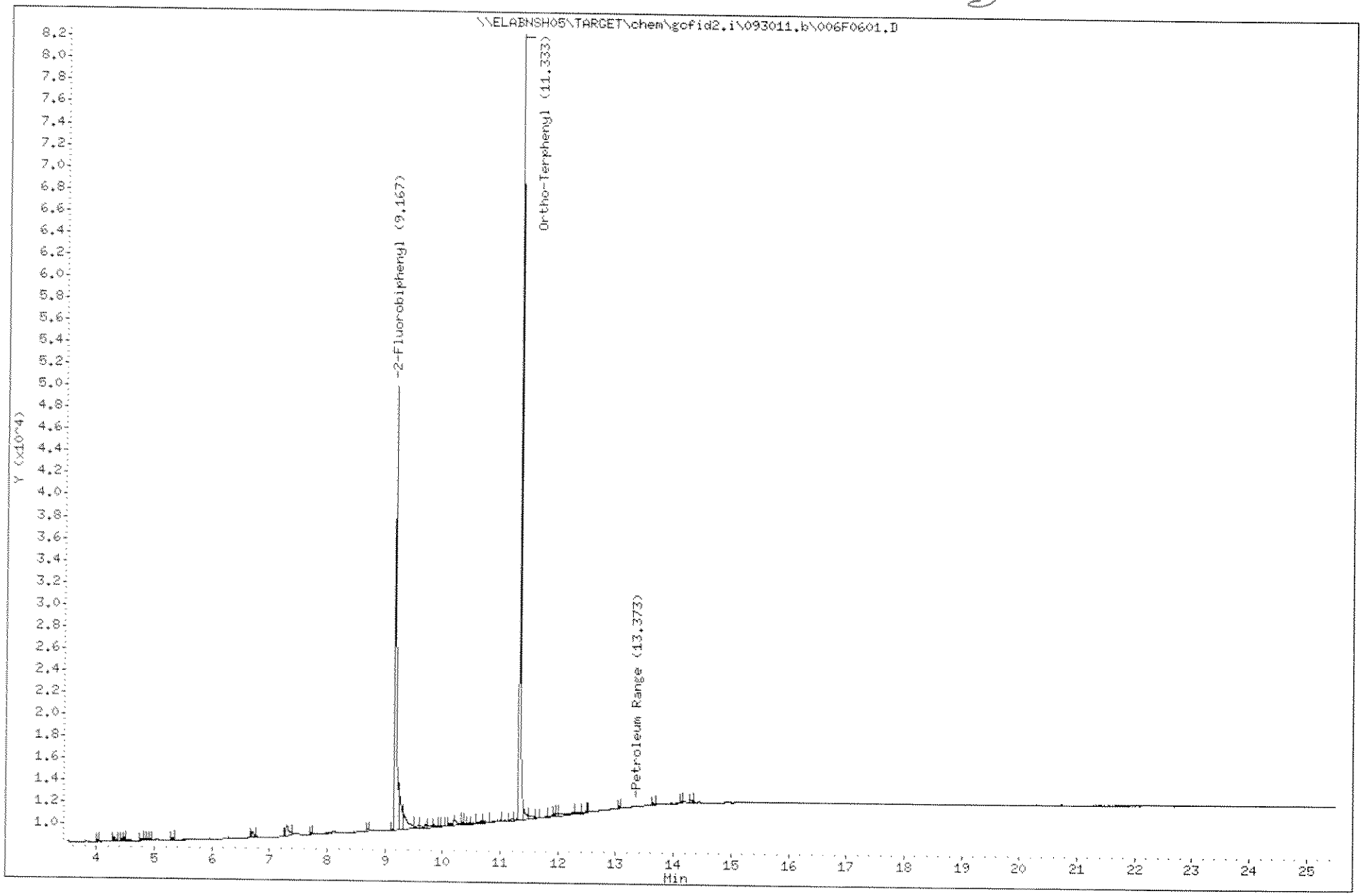
Data File: \\ELABNSH05\TARGET\chem\gcfid2.i\093011.b\006F0601.D
Date : 30-SEP-2011 15:52
Client ID: FLC-4-RB01-092211
Sample Info: 1109191-10

Column phase: ZB-5ms

Page 2

Instrument: gcfid2.i

Operator: CAT
Column diameter: 0.32



1613

1109191

Laboratory Name

Data file : \\ELABNSH05\TARGET\chem\gcfid2.i\093011.b\017F1701.D
Lab Smp Id: SEQ-CCV2
Inj Date : 30-SEP-2011 21:58
Operator : CAT Inst ID: gcfid2.i
Smp Info : SEQ-CCV2
Misc Info :
Comment :
Method : \\ELABNSH05\TARGET\chem\gcfid2.i\093011.b\FLPROF.m
Meth Date : 03-Oct-2011 17:46 cthompson Quant Type: ESTD
Cal Date : 23-DEC-2008 20:47 Cal File: 009R0201.D
Als bottle: 17 Continuing Calibration Sample
Dil Factor: 1.00000
Integrator: Falcon Compound Sublist: PROSURR.sub
Target Version: 4.04
Processing Host: TARGET08_VM

Compounds	RT	EXP RT	DLT RT	RESPONSE	AMOUNTS CAL-AMT (mg/L)	AMOUNTS ON-COL (mg/L)
S 1 Petroleum Range	4.219-22.527			7664738	4250.00	5397
$ 2 2-Fluorobiphenyl	9.156	9.177	-0.021	49369	25.0000	25.13
$ 3 Ortho-Terphenyl	11.280	11.343	-0.063	70607 *	25.0000	32.65

Cat 10/5/11

10/4/11

Data File: \\ELABNSH05\TARGET\chem\gcfid2.i\093011.b\017F1701.D

Date : 30-SEP-2011 21:58

Client ID:

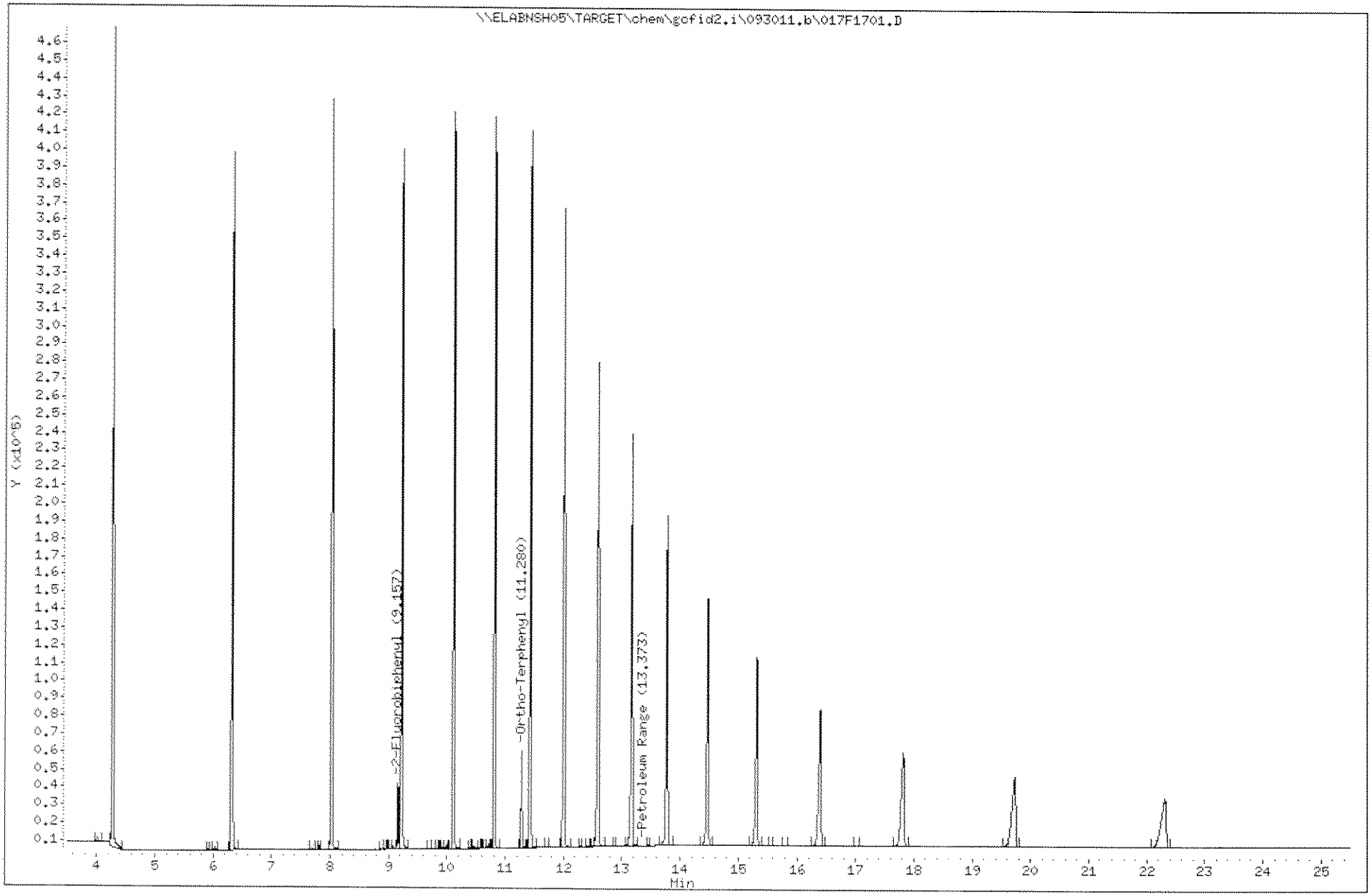
Sample Info: SEQ-CCV2

Column phase: ZB-5ms

Instrument: gcfid2.i

Operator: CAT

Column diameter: 0.32



1615

1109191

Laboratory Name

Data file : \\ELABNSH05\TARGET\chem\gcfid2.i\093011.b\018F1801.D
Lab Smp Id: 1I28003-BLK1
Inj Date : 30-SEP-2011 22:31
Operator : CAT Inst ID: gcfid2.i
Smp Info : 1I28003-BLK1
Misc Info :
Comment :
Method : \\ELABNSH05\TARGET\chem\gcfid2.i\093011.b\FLPROF.m
Meth Date : 03-Oct-2011 17:46 cthompson Quant Type: ESTD
Cal Date : 23-DEC-2008 20:47 Cal File: 009R0201.D
Als bottle: 18
Dil Factor: 1.00000
Integrator: Falcon Compound Sublist: PROSURR.sub
Target Version: 4.04
Processing Host: TARGET08_VM

Compounds	RT	EXP RT	DLT RT	RESPONSE	CONCENTRATIONS ON-COLUMN (mg/L)	CONCENTRATIONS FINAL (mg/L)
$ 2 2-Fluorobiphenyl	9.163	9.177	-0.014	43060	21.9206	21.92(RM)
$ 3 Ortho-Terphenyl	11.280	11.343	-0.063	64823	29.9752	29.98(RM)

QC Flag Legend

R - Spike/Surrogate failed recovery limits.
M - Compound response manually integrated.

10/4/11

Cat 10/3/11

Data File: \\ELABNSH05\TARGET\chem\gcfid2.i\093011.b\018F1801.D

Date : 30-SEP-2011 22:31

Client ID:

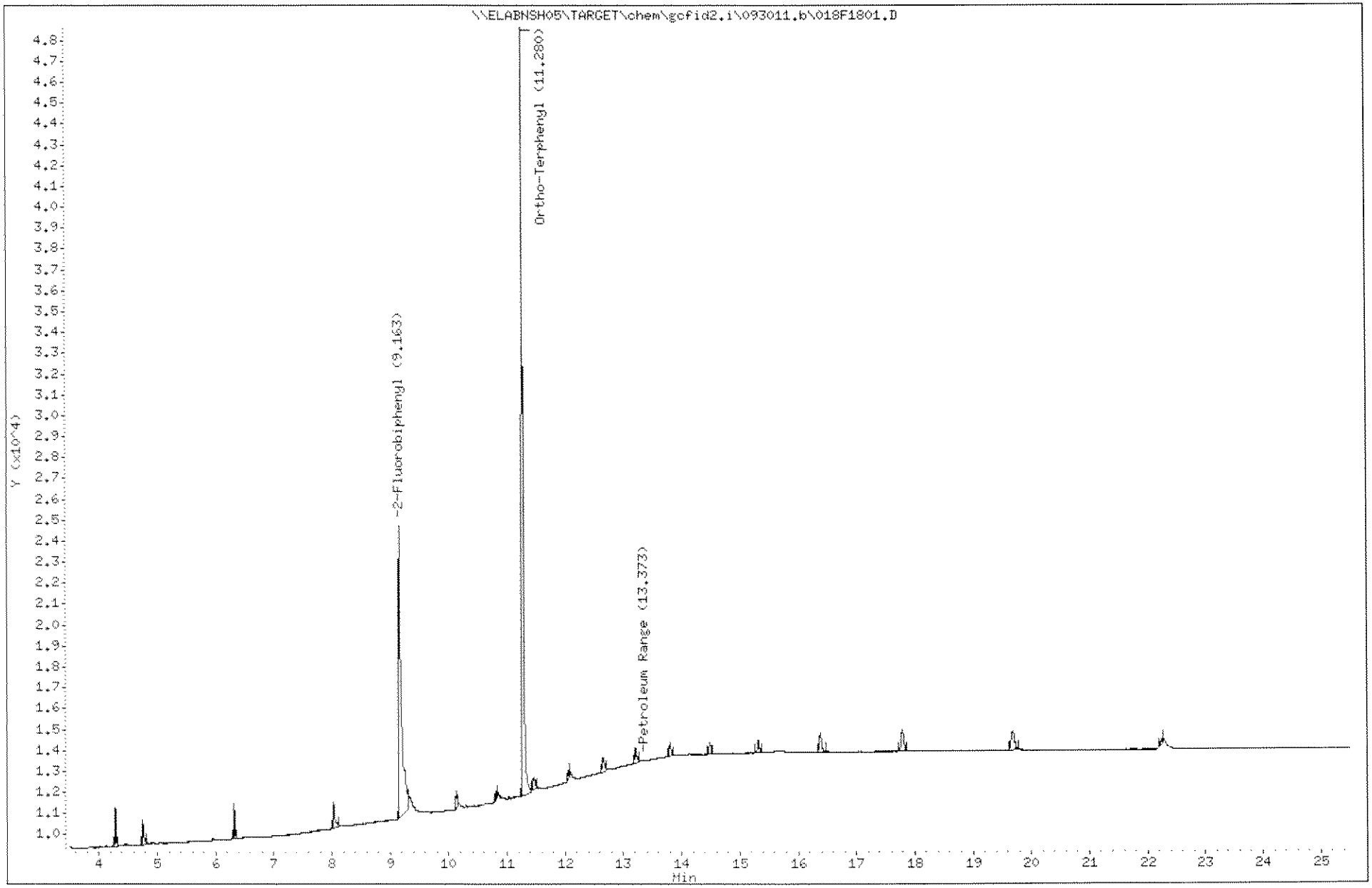
Instrument: gcfid2.i

Sample Info: 1I28003-BLK1

Operator: CAT

Column phase: ZB-5ms

Column diameter: 0.32

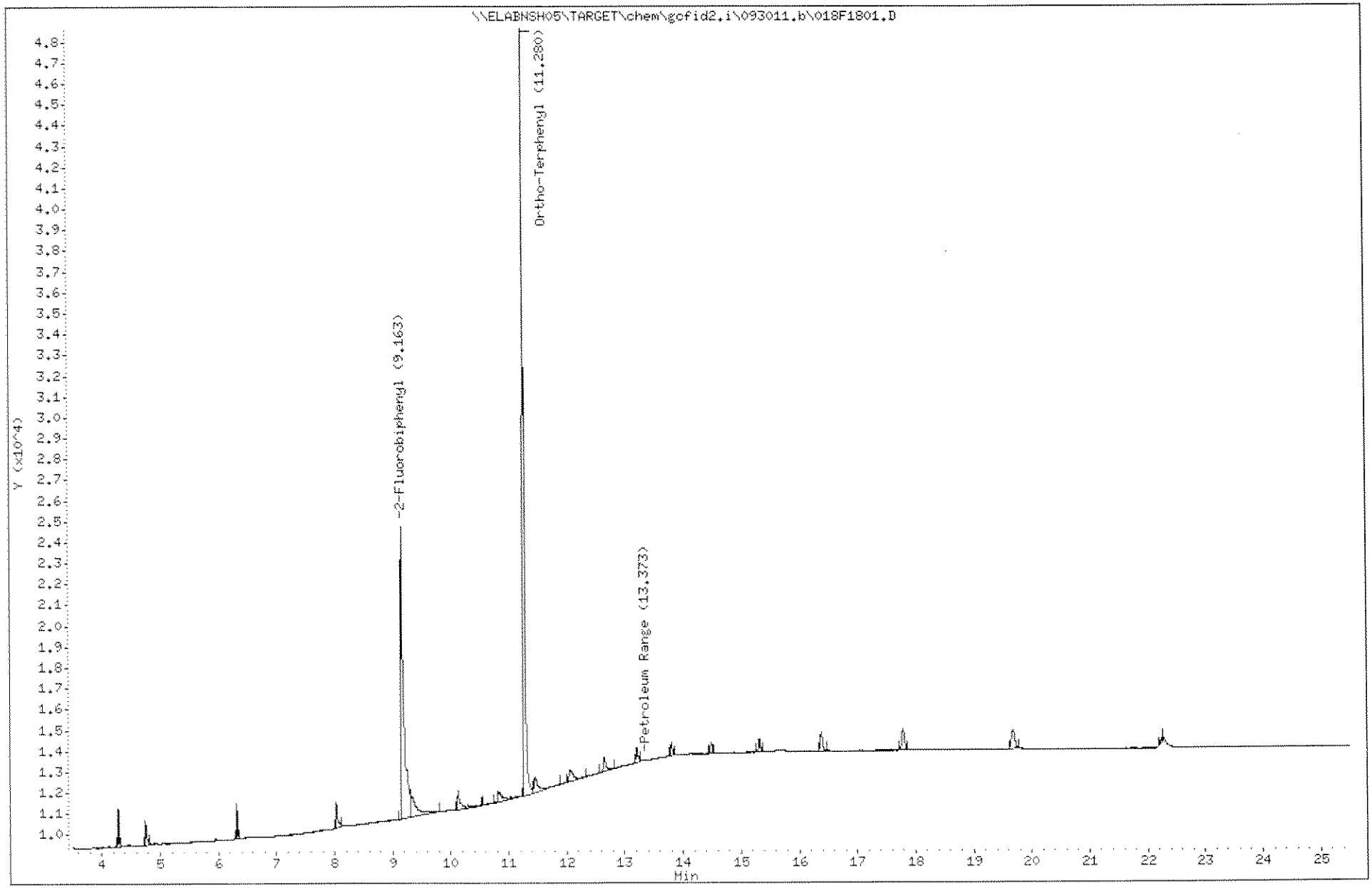


Data File: \\ELABNSH05\TARGET\chem\gcfid2.i\093011.b\018F1801.D
Date : 30-SEP-2011 22:31
Client ID:
Sample Info: 1I28003-BLK1

Column phase: ZB-5ms

Instrument: gcfid2.i

Operator: CAT
Column diameter: 0.32



Laboratory Name

Data file : \\ELABNSH05\TARGET\chem\gcfid2.i\093011.b\019F1901.D
Lab Smp Id: 1I28003-BS1
Inj Date : 30-SEP-2011 23:04
Operator : CAT Inst ID: gcfid2.i
Smp Info : 1I28003-BS1
Misc Info :
Comment :
Method : \\ELABNSH05\TARGET\chem\gcfid2.i\093011.b\FLPROF.m
Meth Date : 03-Oct-2011 17:46 cthompson Quant Type: ESTD
Cal Date : 23-DEC-2008 20:47 Cal File: 009R0201.D
Als bottle: 19
Dil Factor: 1.00000
Integrator: Falcon Compound Sublist: PROSURR.sub
Target Version: 4.04
Processing Host: TARGET08_VM

Compounds	RT	EXP RT	DLT RT	RESPONSE	CONCENTRATIONS ON-COLUMN (mg/L)	FINAL (mg/L)
==========	==	======	======	========	=======	=======
S 1 Petroleum Range	4.219-22.527			2274762	1601.85	1602
$ 2 2-Fluorobiphenyl	9.156	9.177	-0.021	42809	21.7929	21.79(R)
$ 3 Ortho-Terphenyl	11.286	11.343	-0.057	65356	30.2217	30.22(R)

QC Flag Legend

R - Spike/Surrogate failed recovery limits.

Cat 10/3/11

10/4/11

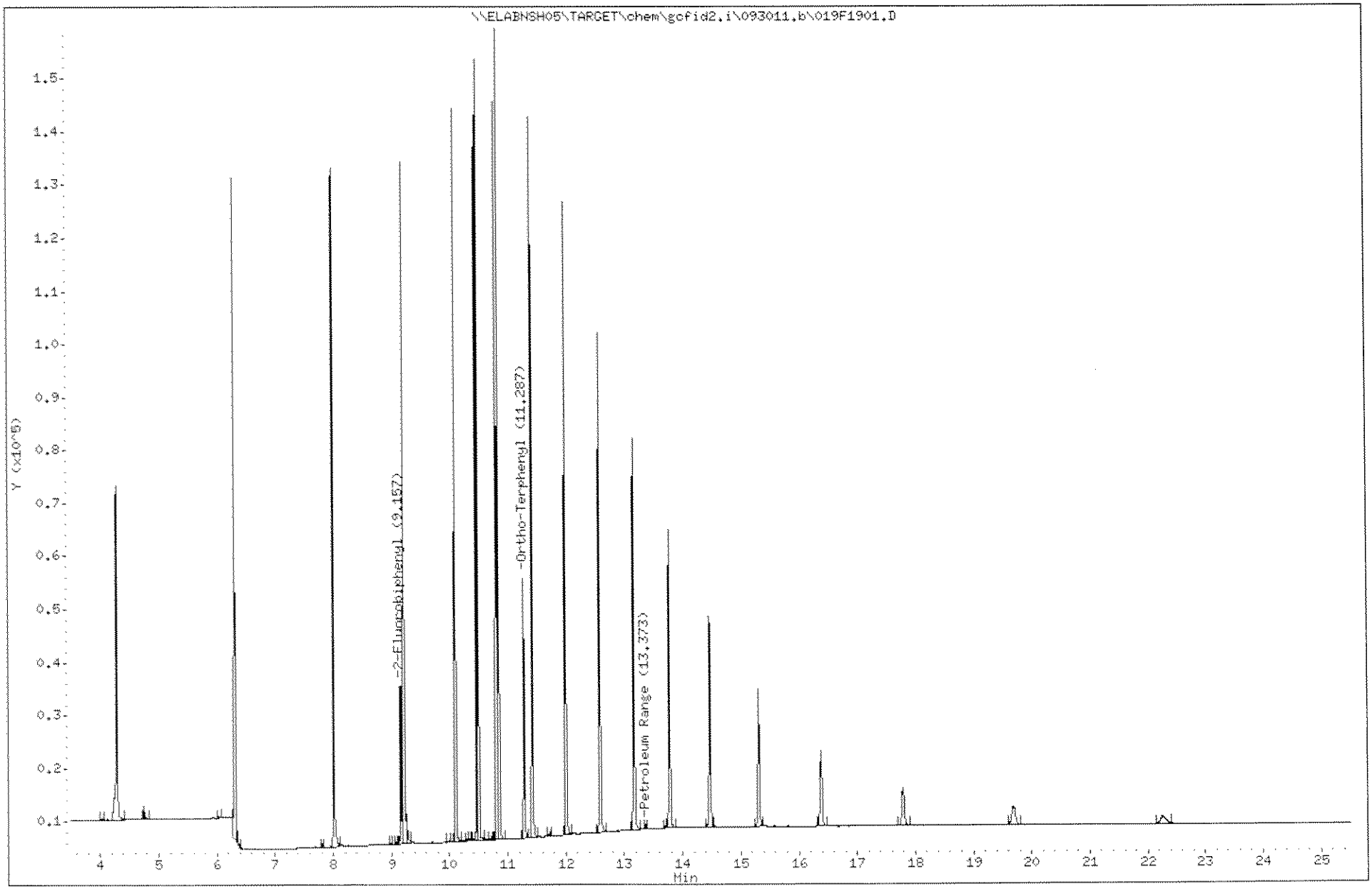
$\frac{42809}{1964} = 21.797$

Data File: \\ELABNSH05\TARGET\chem\gcfid2.i\093011.b\019F1901.D
Date : 30-SEP-2011 23:04
Client ID:
Sample Info: 1I28003-BS1

Column phase: ZB-5ms

Instrument: gcfid2.i

Operator: CAT
Column diameter: 0.32



1620

1109191

Laboratory Name

Data file : \\ELABNSH05\TARGET\chem\gcfid2.i\093011.b\020F2001.D
Lab Smp Id: 1109191-01@10
Inj Date : 30-SEP-2011 23:37
Operator : CAT Inst ID: gcfid2.i
Smp Info : 1109191-01@10
Misc Info :
Comment :
Method : \\ELABNSH05\TARGET\chem\gcfid2.i\093011.b\FLPROF.m
Meth Date : 03-Oct-2011 17:46 cthompson Quant Type: ESTD
Cal Date : 23-DEC-2008 20:47 Cal File: 009R0201.D
Als bottle: 20
Dil Factor: 10.00000
Integrator: Falcon Compound Sublist: PROSURR.sub
Target Version: 4.04
Processing Host: TARGET08_VM

Compounds	RT	EXP RT	DLT RT	RESPONSE	CONCENTRATIONS ON-COLUMN (mg/L)	FINAL (mg/L)
$ 1 Petroleum Range	4.219-22.527			185610	130.703	1307(M)
$ 2 2-Fluorobiphenyl	9.130	9.177	-0.047	543	0.27643	2.764(RM)
$ 3 Ortho-Terphenyl	11.290	11.343	-0.053	4300	1.98839	19.88(RM)

QC Flag Legend

R - Spike/Surrogate failed recovery limits.
M - Compound response manually integrated.

Cat 10/3/11

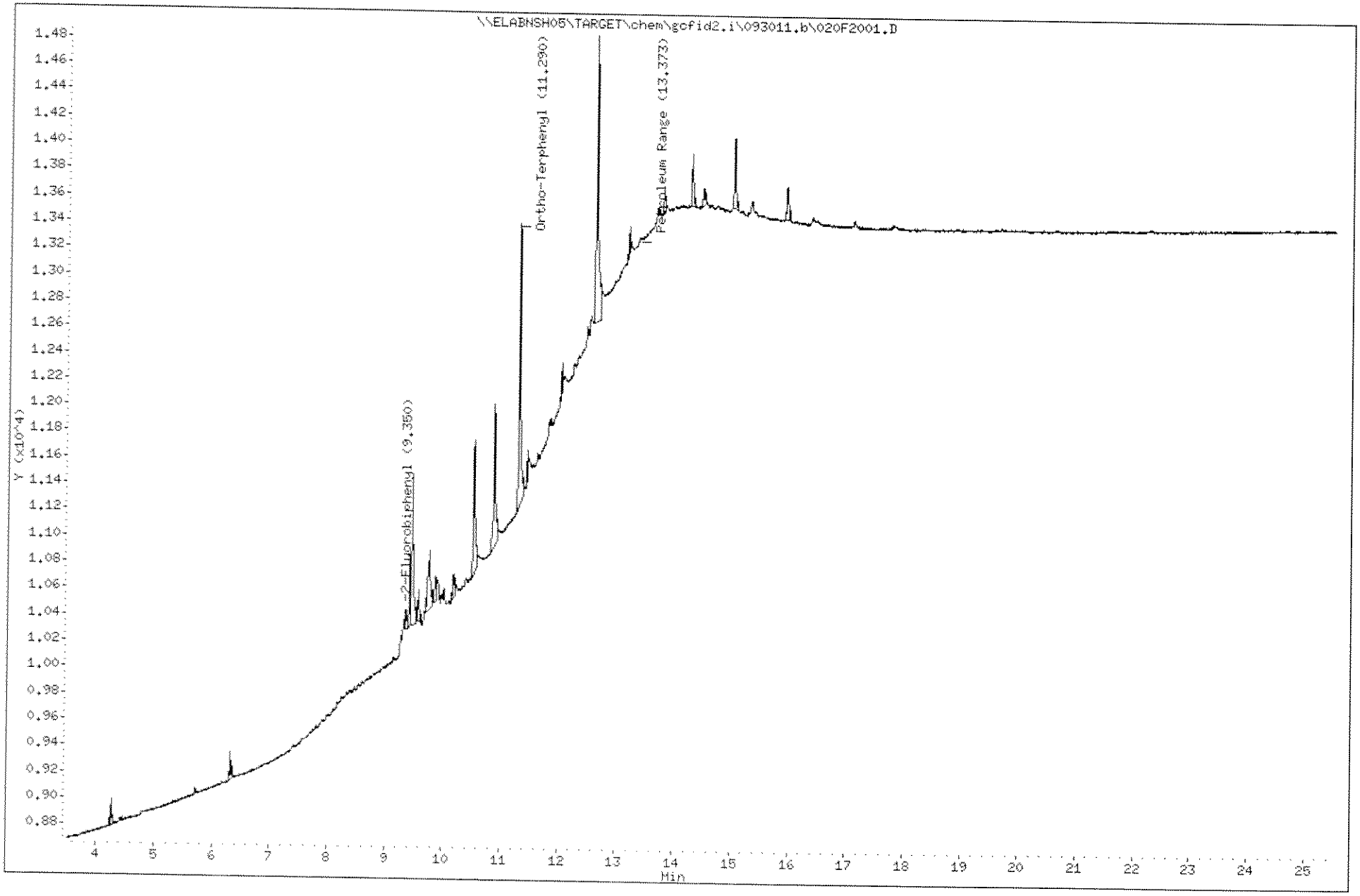
10/4/11

Data File: \\ELABNSH05\TARGET\chem\gcfid2.i\093011.b\020F2001.D
Date : 30-SEP-2011 23:37
Client ID:
Sample Info: 1109191-01@10

Column phase: ZB-5ms

Instrument: gcfid2.i

Operator: CAT
Column diameter: 0.32



1622

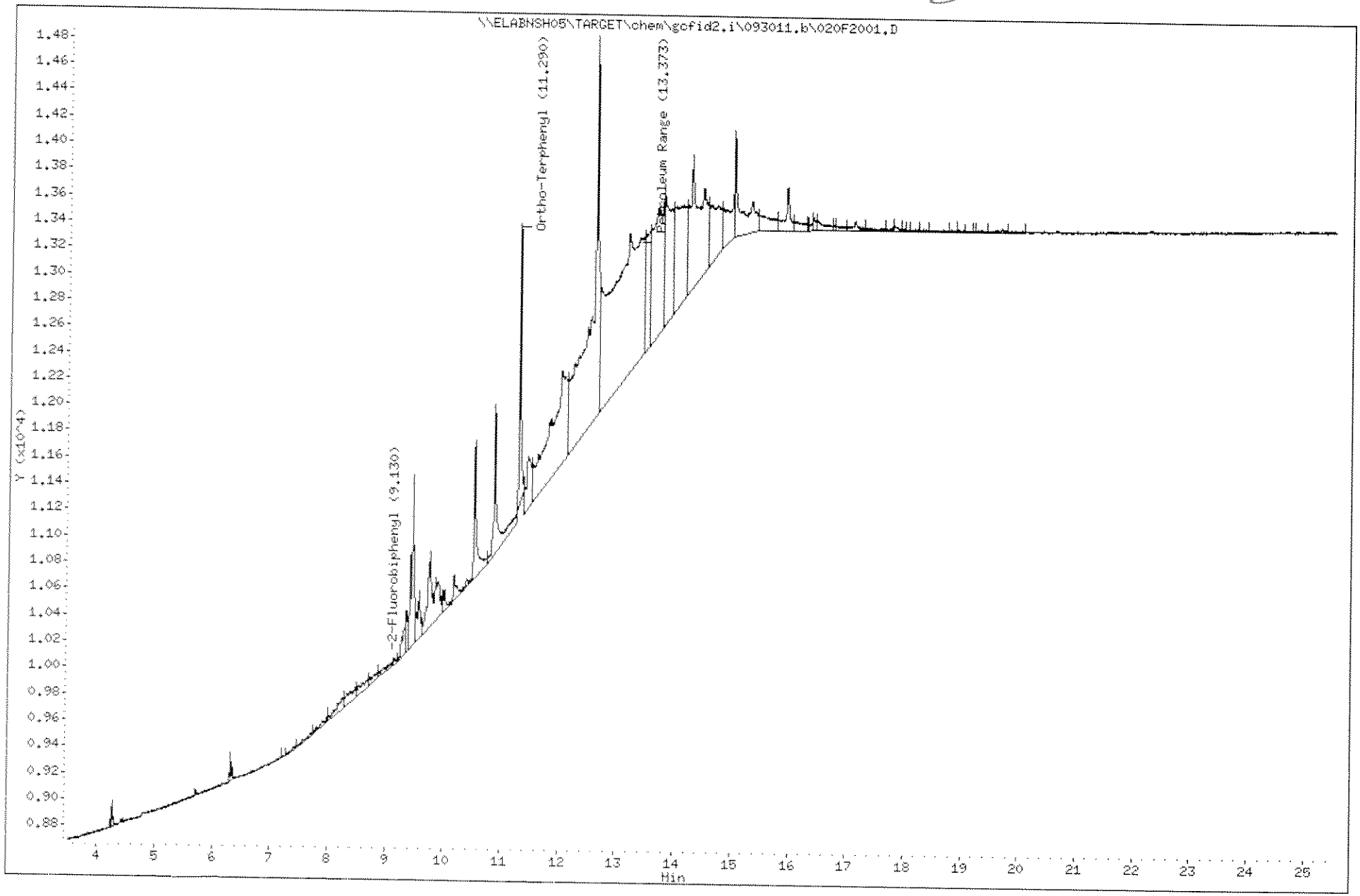
1109191

Data File: \\ELABNSH05\TARGET\chem\gcfid2.i\093011.b\020F2001.D
Date : 30-SEP-2011 23:37
Client ID:
Sample Info: 1109191-01@10

Column phase: ZB-5ms

Instrument: gcfid2.i

Operator: CAT
Column diameter: 0.32



1623

1109191

Laboratory Name

Data file : \\ELABNSH05\TARGET\chem\gcfid2.i\093011.b\021F2101.D
Lab Smp Id: 1109191-02@10
Inj Date : 01-OCT-2011 00:10
Operator : CAT Inst ID: gcfid2.i
Smp Info : 1109191-02@10
Misc Info :
Comment :
Method : \\ELABNSH05\TARGET\chem\gcfid2.i\093011.b\FLPROF.m
Meth Date : 03-Oct-2011 17:46 cthompson Quant Type: ESTD
Cal Date : 23-DEC-2008 20:47 Cal File: 009R0201.D
Als bottle: 21
Dil Factor: 10.00000
Integrator: Falcon Compound Sublist: PROSURR.sub
Target Version: 4.04
Processing Host: TARGET08_VM

Compounds	RT	EXP RT	DLT RT	RESPONSE	CONCENTRATIONS ON-COLUMN (mg/L)	FINAL (mg/L)
$ 3 Ortho-Terphenyl	11.316	11.343	-0.027	3195	1.47742	14.77(RM)

QC Flag Legend

R - Spike/Surrogate failed recovery limits.
M - Compound response manually integrated.

10/4/11

Cat 10/3/11

Data File: \\ELABNSH05\TARGET\chem\gcfid2.i\093011.b\021F2101.D

Date : 01-OCT-2011 00:10

Client ID:

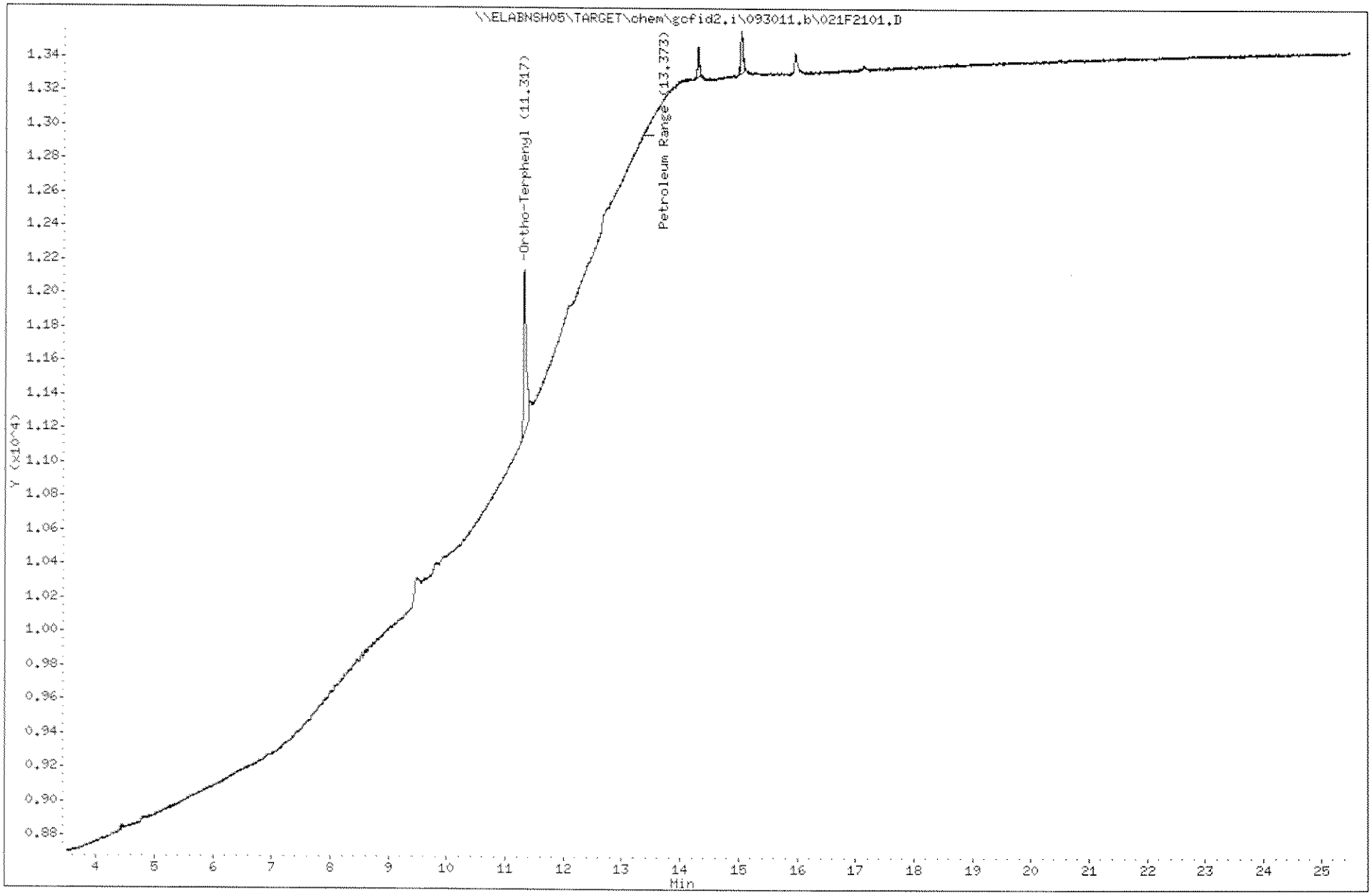
Sample Info: 1109191-02@10

Column phase: ZB-5ms

Instrument: gcfid2.i

Operator: CAT

Column diameter: 0.32

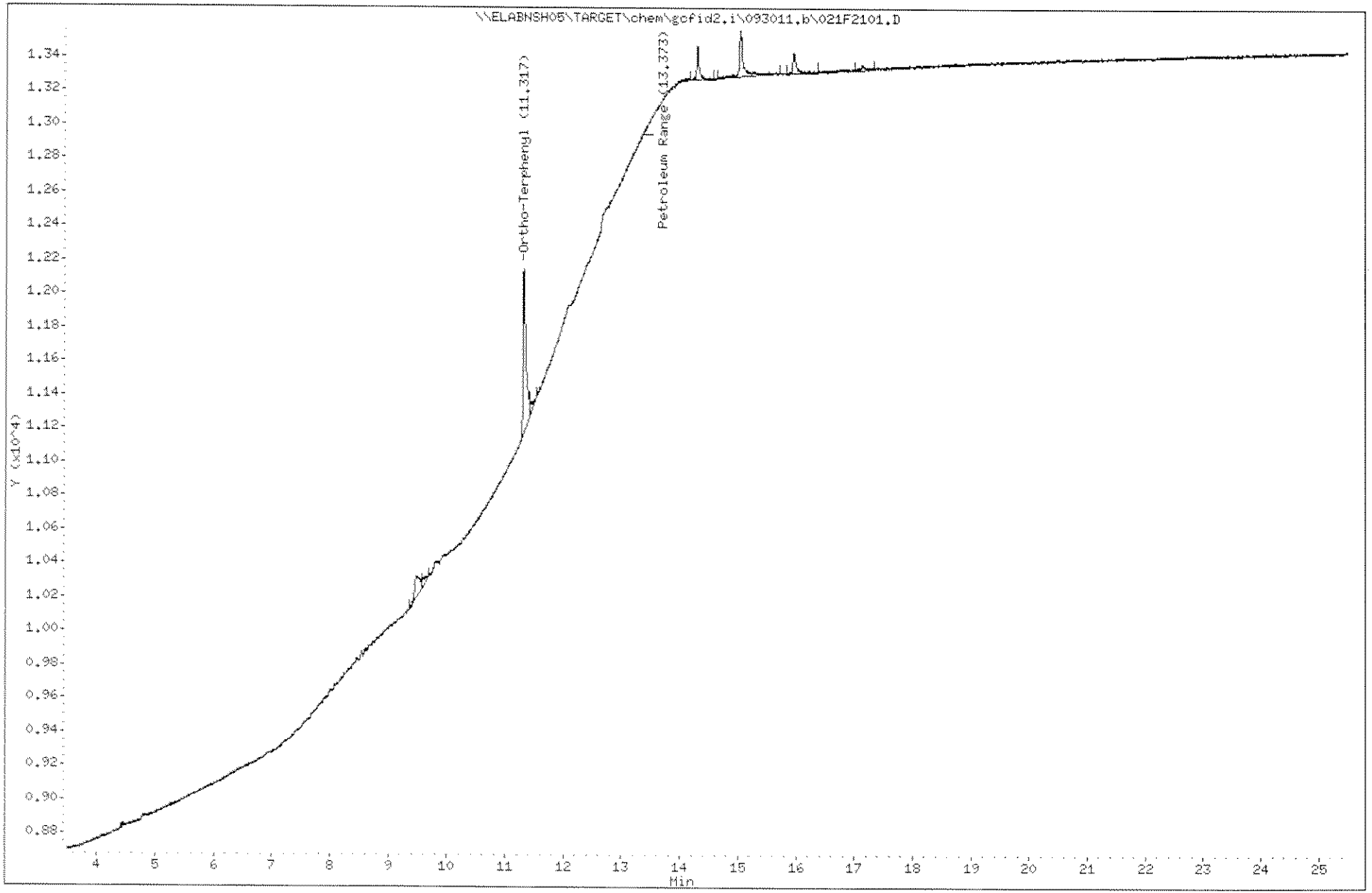


Data File: \\ELABNSH05\TARGET\chem\gcfid2.i\093011.b\021F2101.D
Date : 01-OCT-2011 00:10
Client ID:
Sample Info: 1109191-02@10

Column phase: ZB-5ms

Instrument: gcfid2.i

Operator: CAT
Column diameter: 0.32



1626

1109191

Laboratory Name

Data file : \\ELABNSH05\TARGET\chem\gcfid2.i\093011.b\022F2201.D
Lab Smp Id: 1I28003-MS1@10
Inj Date : 01-OCT-2011 00:43
Operator : CAT Inst ID: gcfid2.i
Smp Info : 1I28003-MS1@10
Misc Info :
Comment :
Method : \\ELABNSH05\TARGET\chem\gcfid2.i\093011.b\FLPROF.m
Meth Date : 03-Oct-2011 17:46 cthompson Quant Type: ESTD
Cal Date : 23-DEC-2008 20:47 Cal File: 009R0201.D
Als bottle: 22
Dil Factor: 10.00000
Integrator: Falcon Compound Sublist: PROSURR.sub
Target Version: 4.04
Processing Host: TARGET08_VM

Compounds	RT	EXP RT	DLT RT	RESPONSE	CONCENTRATIONS ON-COLUMN (mg/L)	CONCENTRATIONS FINAL (mg/L)
S 1 Petroleum Range	4.219-22.527			160631	113.113	1131(M)
$ 2 2-Fluorobiphenyl	9.243	9.177	0.066	7822	3.98196	39.82(RM)
$ 3 Ortho-Terphenyl	11.293	11.343	-0.050	4660	2.15486	21.55(RM)

QC Flag Legend

R - Spike/Surrogate failed recovery limits.
M - Compound response manually integrated.

Cat 10/4/11

10/4/11

Data File: \\ELABNSH05\TARGET\chem\gcfid2.i\093011.b\022F2201.D

Date : 01-OCT-2011 00:43

Client ID:

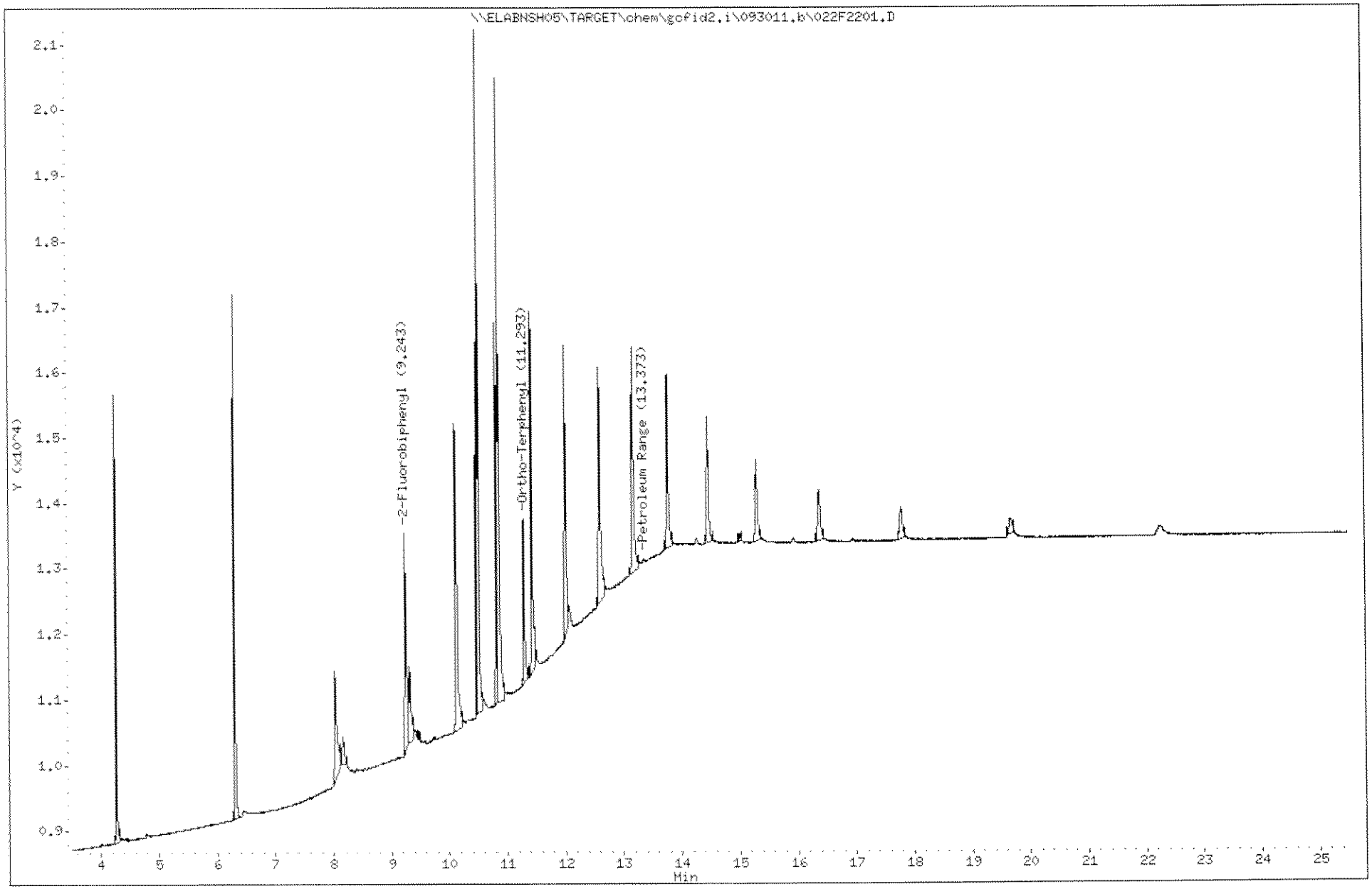
Sample Info: 1I28003-MS1@10

Column phase: ZB-5ms

Instrument: gcfid2.i

Operator: CAT

Column diameter: 0.32



1628

1109191

Data File: \\ELABNSH05\TARGET\chem\gcfid2.i\093011.b\022F2201.D

Date : 01-OCT-2011 00:43

Client ID:

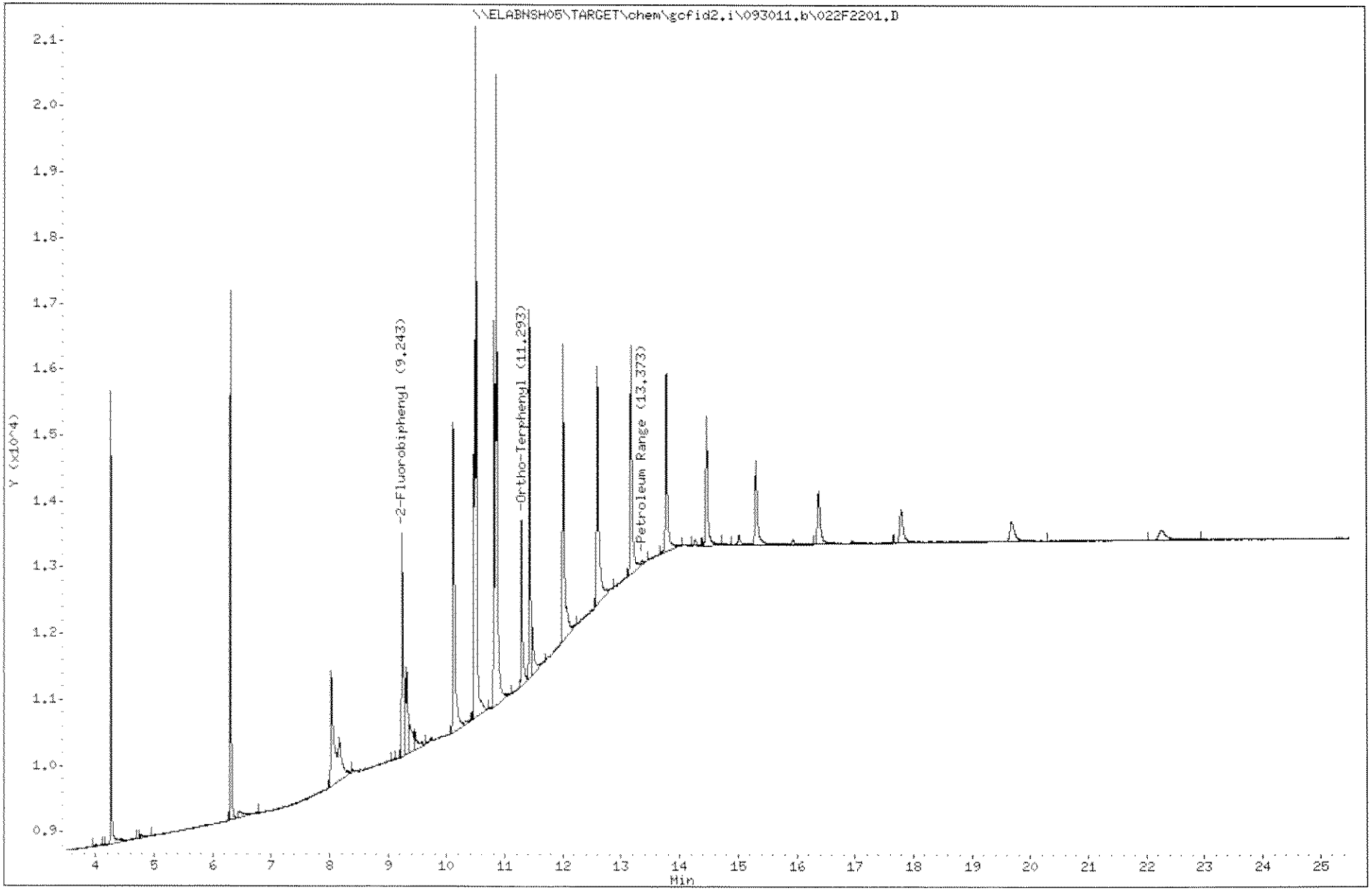
Sample Info: 1I28003-MS1@10

Column phase: ZB-5ms

Instrument: gcfid2.i

Operator: CAT

Column diameter: 0.32



1629

1109191

Laboratory Name

Data file : \\ELABNSH05\TARGET\chem\gcfid2.i\093011.b\023F2301.D
Lab Smp Id: 1I28003-MSD1@10
Inj Date : 01-OCT-2011 01:16
Operator : CAT Inst ID: gcfid2.i
Smp Info : 1I28003-MSD1@10
Misc Info :
Comment :
Method : \\ELABNSH05\TARGET\chem\gcfid2.i\093011.b\FLPROF.m
Meth Date : 03-Oct-2011 17:46 cthompson Quant Type: ESTD
Cal Date : 23-DEC-2008 20:47 Cal File: 009R0201.D
Als bottle: 23
Dil Factor: 10.00000
Integrator: Falcon Compound Sublist: PROSURR.sub
Target Version: 4.04
Processing Host: TARGET08_VM

Compounds	RT	EXP RT	DLT RT	RESPONSE	CONCENTRATIONS ON-COLUMN (mg/L)	CONCENTRATIONS FINAL (mg/L)
S 1 Petroleum Range	4.219-22.527			171973	121.100	1211(M)
$ 2 2-Fluorobiphenyl	9.243	9.177	0.066	8225	4.18712	41.87(RM)
$ 3 Ortho-Terphenyl	11.290	11.343	-0.053	4811	2.22468	22.25(RM)

QC Flag Legend

R - Spike/Surrogate failed recovery limits.
M - Compound response manually integrated.

10/4/11

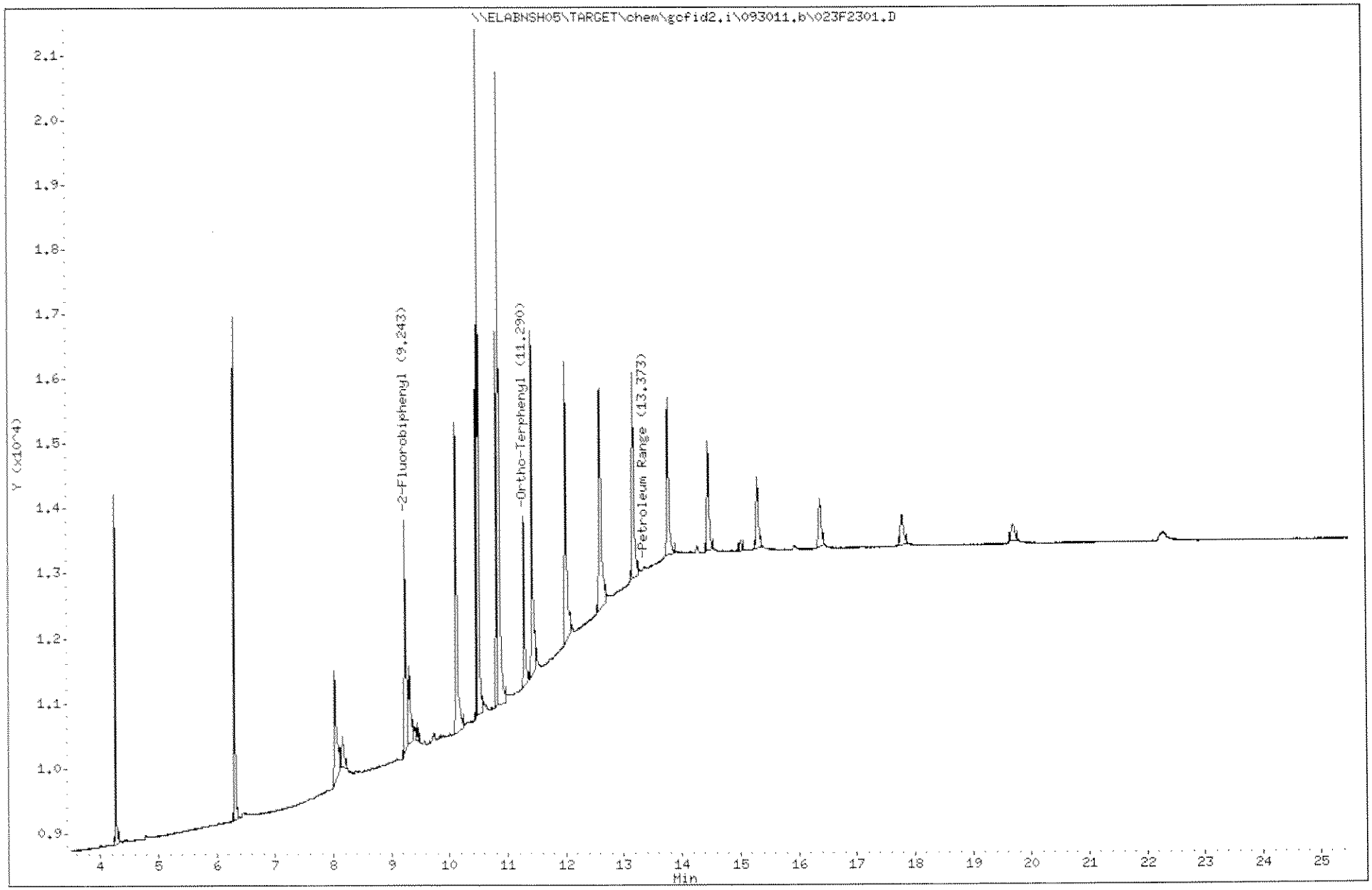
Cat 10/3/11

Data File: \\ELABNSH05\TARGET\chem\gcfid2.i\093011.b\023F2301.D
Date : 01-OCT-2011 01:16
Client ID:
Sample Info: 1I28003-MSD1@10

Column phase: ZB-5ms

Instrument: gcfid2.i

Operator: CAT
Column diameter: 0.32



1631
1109191

Data File: \\ELABNSH05\TARGET\chem\gcfid2.i\093011.b\023F2301.D

Date : 01-OCT-2011 01:16

Client ID:

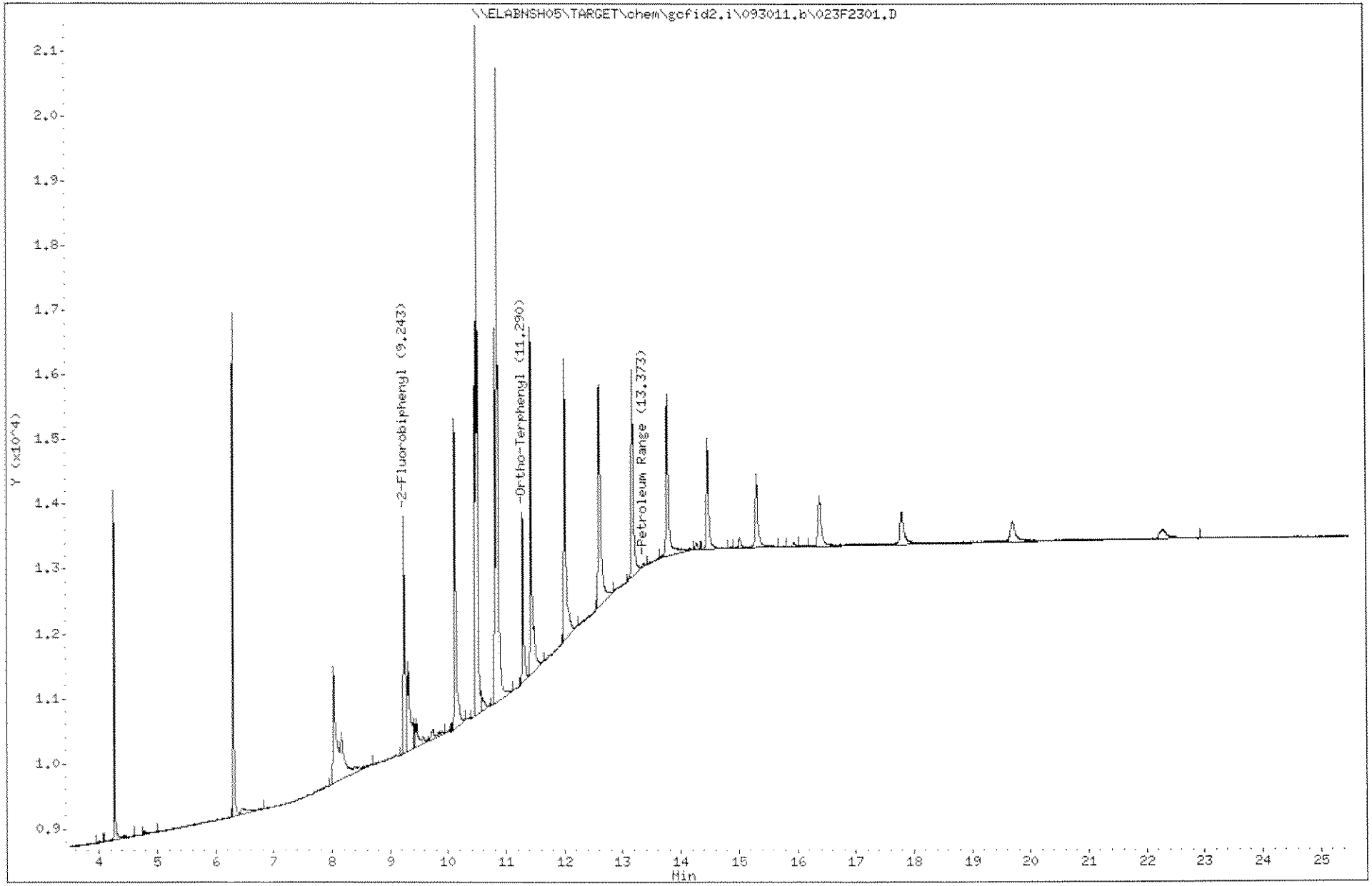
Sample Info: 1I28003-MSD1010

Column phase: ZB-5ms

Instrument: gcfid2.i

Operator: CAT

Column diameter: 0.32



1632

1109191

Laboratory Name

Data file : \\ELABNSH05\TARGET\chem\gcfid2.i\093011.b\024F2401.D
Lab Smp Id: 1109191-03 Client Smp ID: FLC-4-SB01-0204-092
Inj Date : 01-OCT-2011 01:49
Operator : CAT Inst ID: gcfid2.i
Smp Info : 1109191-03
Misc Info :
Comment :
Method : \\ELABNSH05\TARGET\chem\gcfid2.i\093011.b\FLPROF.m
Meth Date : 03-Oct-2011 17:46 cthompson Quant Type: ESTD
Cal Date : 23-DEC-2008 20:47 Cal File: 009R0201.D
Als bottle: 24
Dil Factor: 1.00000
Integrator: Falcon Compound Sublist: PROSURR.sub
Target Version: 4.04
Processing Host: TARGET08_VM

Compounds	RT	EXP RT	DLT RT	RESPONSE	CONCENTRATIONS ON-COLUMN (mg/L)	CONCENTRATIONS FINAL (mg/L)
$ 2 2-Fluorobiphenyl	9.330	9.177	0.153	4985	2.53772	2.538(RM)
$ 3 Ortho-Terphenyl	11.290	11.343	-0.053	11427	5.28403	5.284(RM)

QC Flag Legend

R - Spike/Surrogate failed recovery limits.
M - Compound response manually integrated.

10/4/11

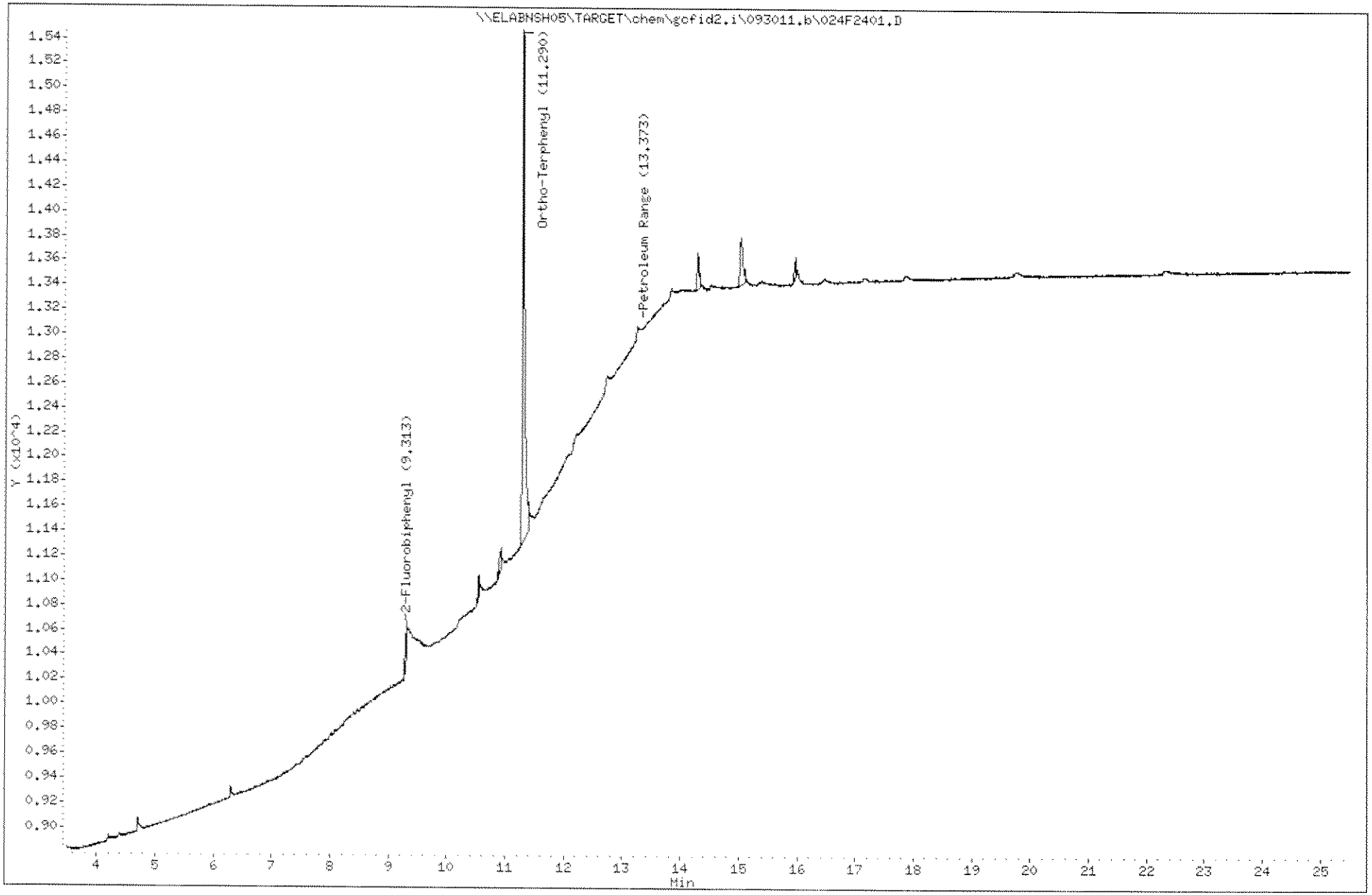
Cat 10/4/11

Data File: \\ELABNSH05\TARGET\chem\gcfid2.i\093011.b\024F2401.D
Date : 01-OCT-2011 01:49
Client ID: FLC-4-SB01-0204-092
Sample Info: 1109191-03

Column phase: ZB-5ms

Instrument: gcfid2.i

Operator: CAT
Column diameter: 0.32



1634

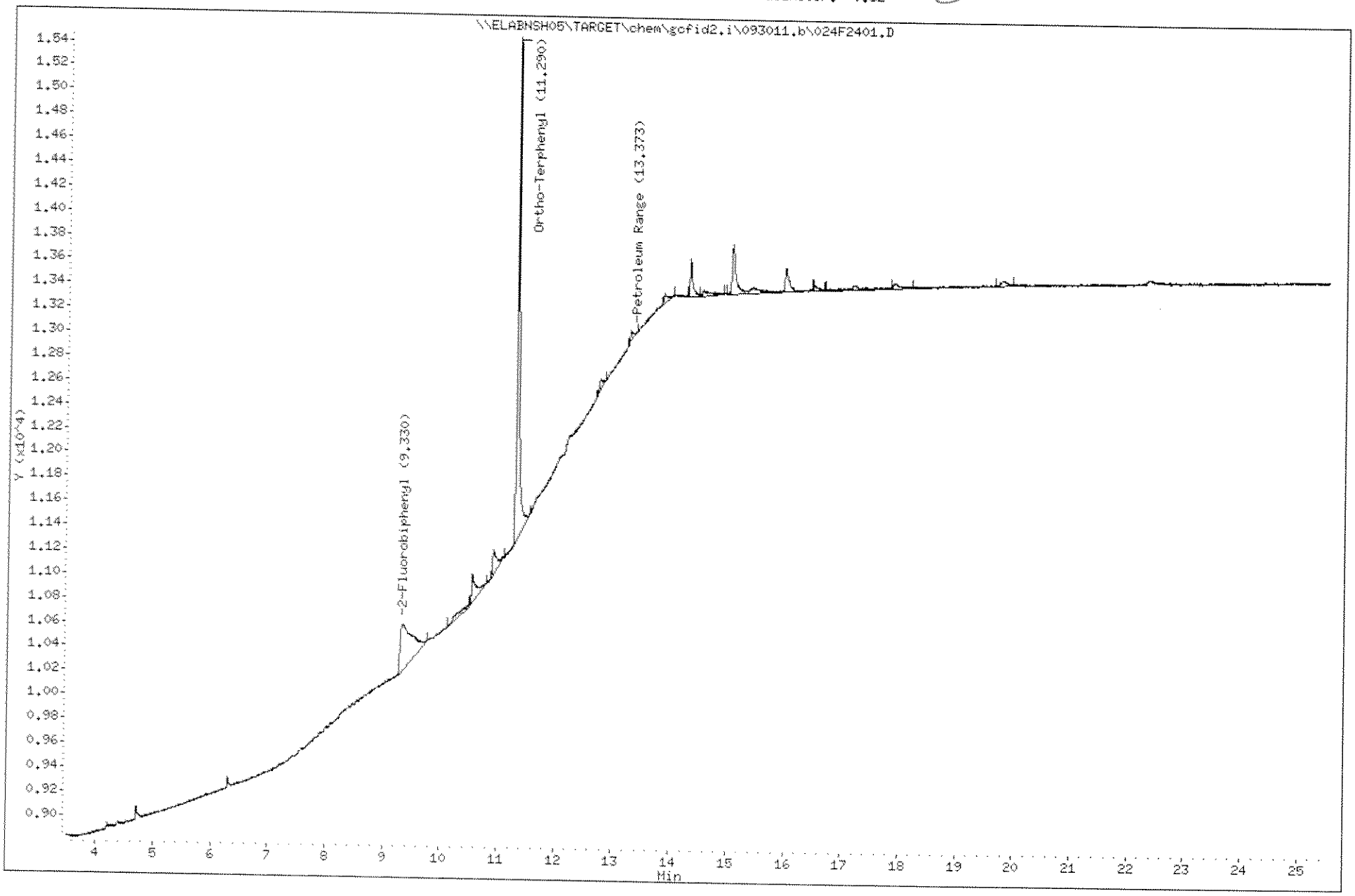
1109191

Data File: \\ELABNSH05\TARGET\chem\gcfid2.i\093011.b\024F2401.D
Date : 01-OCT-2011 01:49
Client ID: FLC-4-SB01-0204-092
Sample Info: 1109191-03

Column phase: ZB-5ms

Instrument: gcfid2.i

Operator: CAT
Column diameter: 0.32



1635

1109191

Laboratory Name

Data file : \\ELABNSH05\TARGET\chem\gcfid2.i\093011.b\025F2501.D
Lab Smp Id: 1109191-04@10
Inj Date : 01-OCT-2011 02:22
Operator : CAT Inst ID: gcfid2.i
Smp Info : 1109191-04@10
Misc Info :
Comment :
Method : \\ELABNSH05\TARGET\chem\gcfid2.i\093011.b\FLPROF.m
Meth Date : 03-Oct-2011 17:46 cthompson Quant Type: ESTD
Cal Date : 23-DEC-2008 20:47 Cal File: 009R0201.D
Als bottle: 25
Dil Factor: 10.00000
Integrator: Falcon Compound Sublist: PROSURR.sub
Target Version: 4.04
Processing Host: TARGET08_VM

Compounds	RT	EXP RT	DLT RT	RESPONSE	CONCENTRATIONS ON-COLUMN (mg/L)	FINAL (mg/L)
==========	**	======	======	========	=======	=======
S 1 Petroleum Range	4.219-22.527			235828	166.066	1661(M)
$ 2 2-Fluorobiphenyl	9.256	9.177	0.079	745	0.37926	3.792(RM)
$ 3 Ortho-Terphenyl	11.286	11.343	-0.057	5021	2.32179	23.22(RM)

QC Flag Legend

R - Spike/Surrogate failed recovery limits.
M - Compound response manually integrated.

10/4/11

Cat 10/4/11

Data File: \\ELABNSH05\TARGET\chem\gcfid2.i\093011.b\025F2501.D

Date : 01-OCT-2011 02:22

Client ID:

Sample Info: 1109191-04010

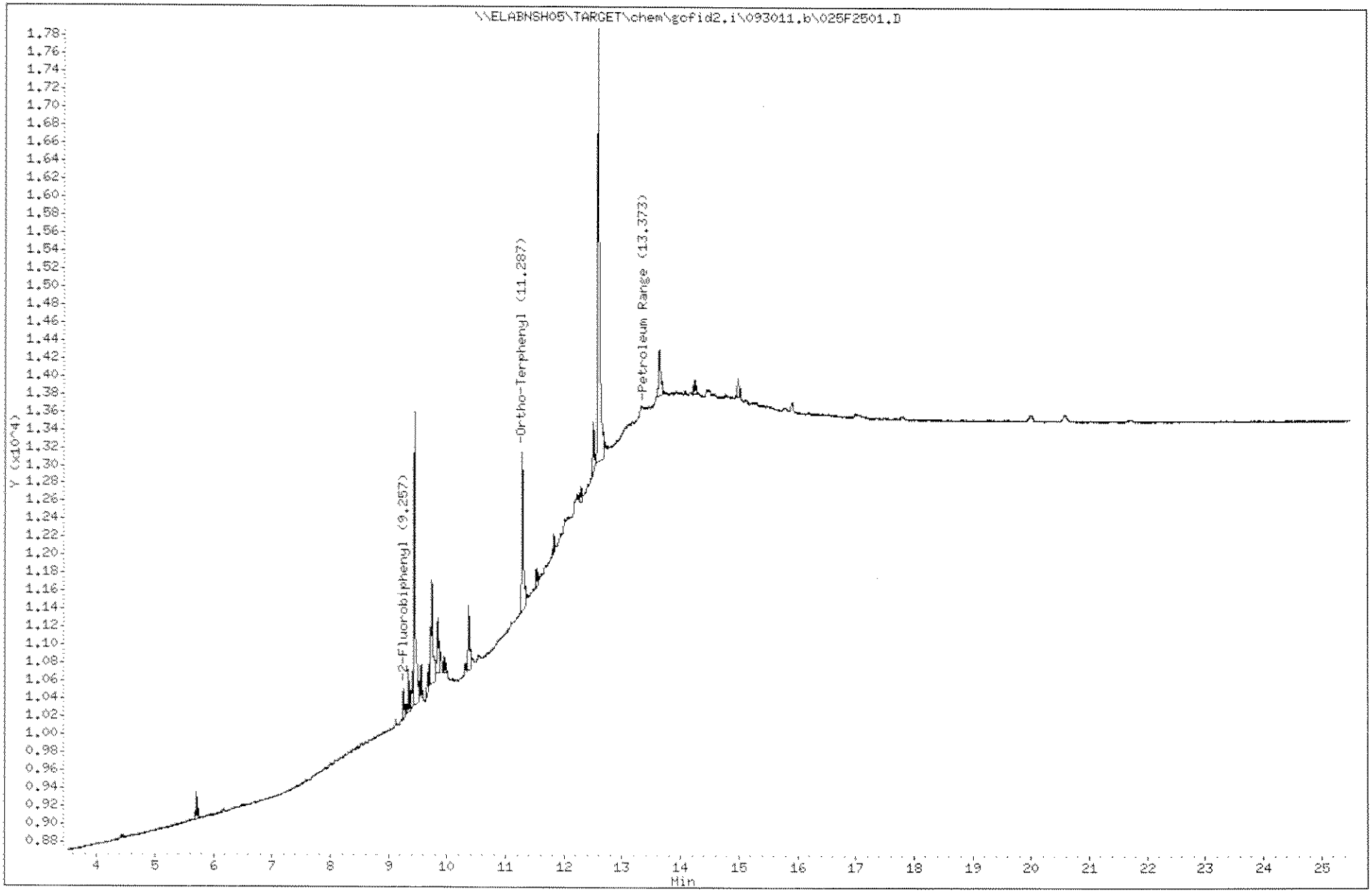
Column phase: ZB-5ms

Page 1

Instrument: gcfid2.i

Operator: CAT

Column diameter: 0.32



1637

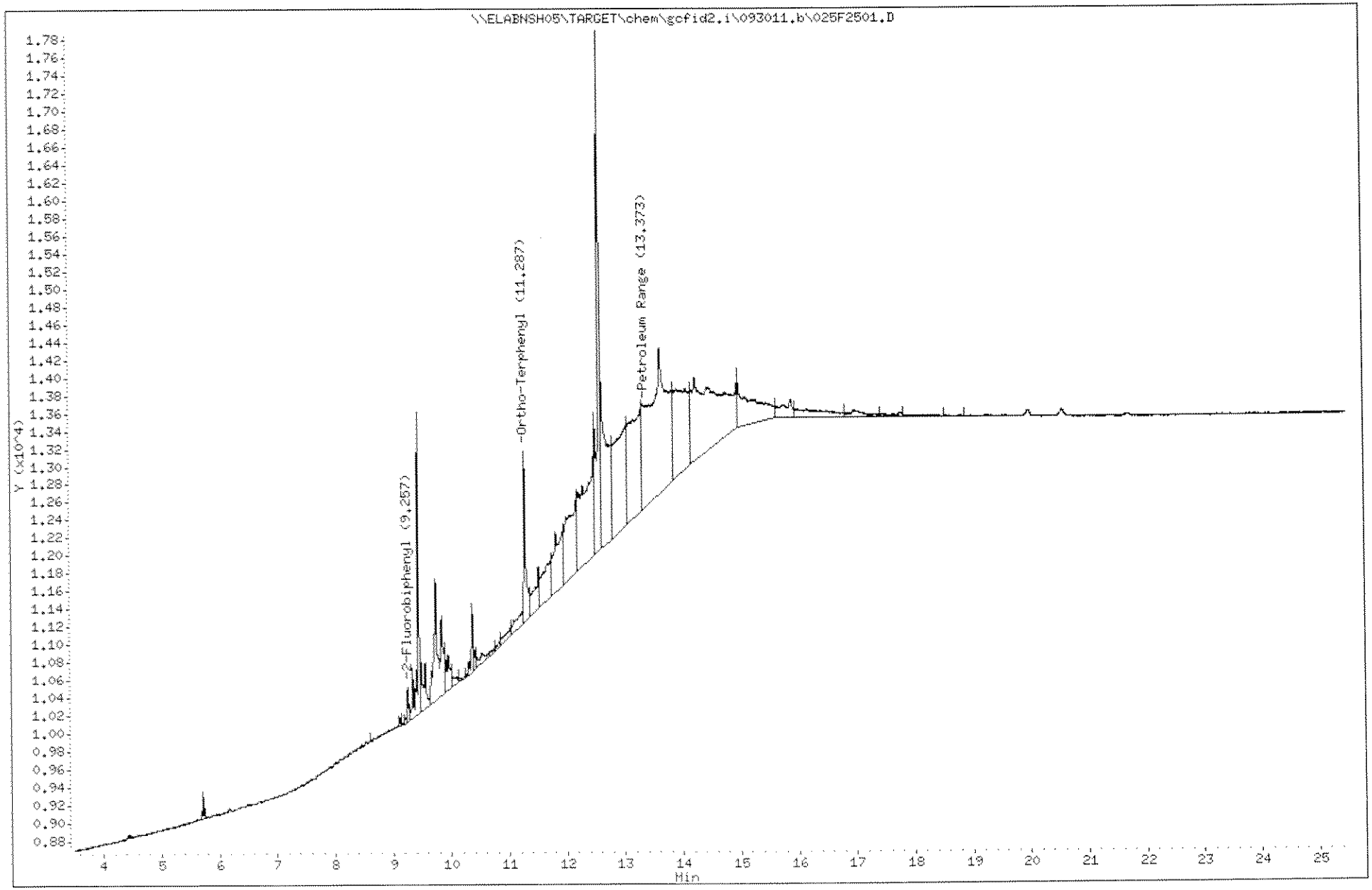
1109191

Data File: \\ELABNSH05\TARGET\chem\gcfid2.i\093011.b\025F2501.D
Date : 01-OCT-2011 02:22
Client ID:
Sample Info: 1109191-04@10

Column phase: ZB-5ms

Instrument: gcfid2.i

Operator: CAT
Column diameter: 0.32



Laboratory Name

Data file : \\ELABNSH05\TARGET\chem\gcfid2.i\093011.b\026F2601.D
Lab Smp Id: 1109191-05@10
Inj Date : 01-OCT-2011 02:56
Operator : CAT Inst ID: gcfid2.i
Smp Info : 1109191-05@10
Misc Info :
Comment :
Method : \\ELABNSH05\TARGET\chem\gcfid2.i\093011.b\FLPROF.m
Meth Date : 03-Oct-2011 17:46 cthompson Quant Type: ESTD
Cal Date : 23-DEC-2008 20:47 Cal File: 009R0201.D
Als bottle: 26
Dil Factor: 10.00000
Integrator: Falcon Compound Sublist: PROSURR.sub
Target Version: 4.04
Processing Host: TARGET08_VM

Compounds	RT	EXP RT	DLT RT	RESPONSE	CONCENTRATIONS ON-COLUMN (mg/L)	CONCENTRATIONS FINAL (mg/L)
$ 1 Petroleum Range	4.219-22.527			155539	109.528	1095(M)
$ 2 2-Fluorobiphenyl	9.163	9.177	-0.014	14	0.00713	0.07127(RM)
$ 3 Ortho-Terphenyl	11.283	11.343	-0.060	4683	2.16549	21.65(RM)

QC Flag Legend

R - Spike/Surrogate failed recovery limits.
M - Compound response manually integrated.

10/4/11

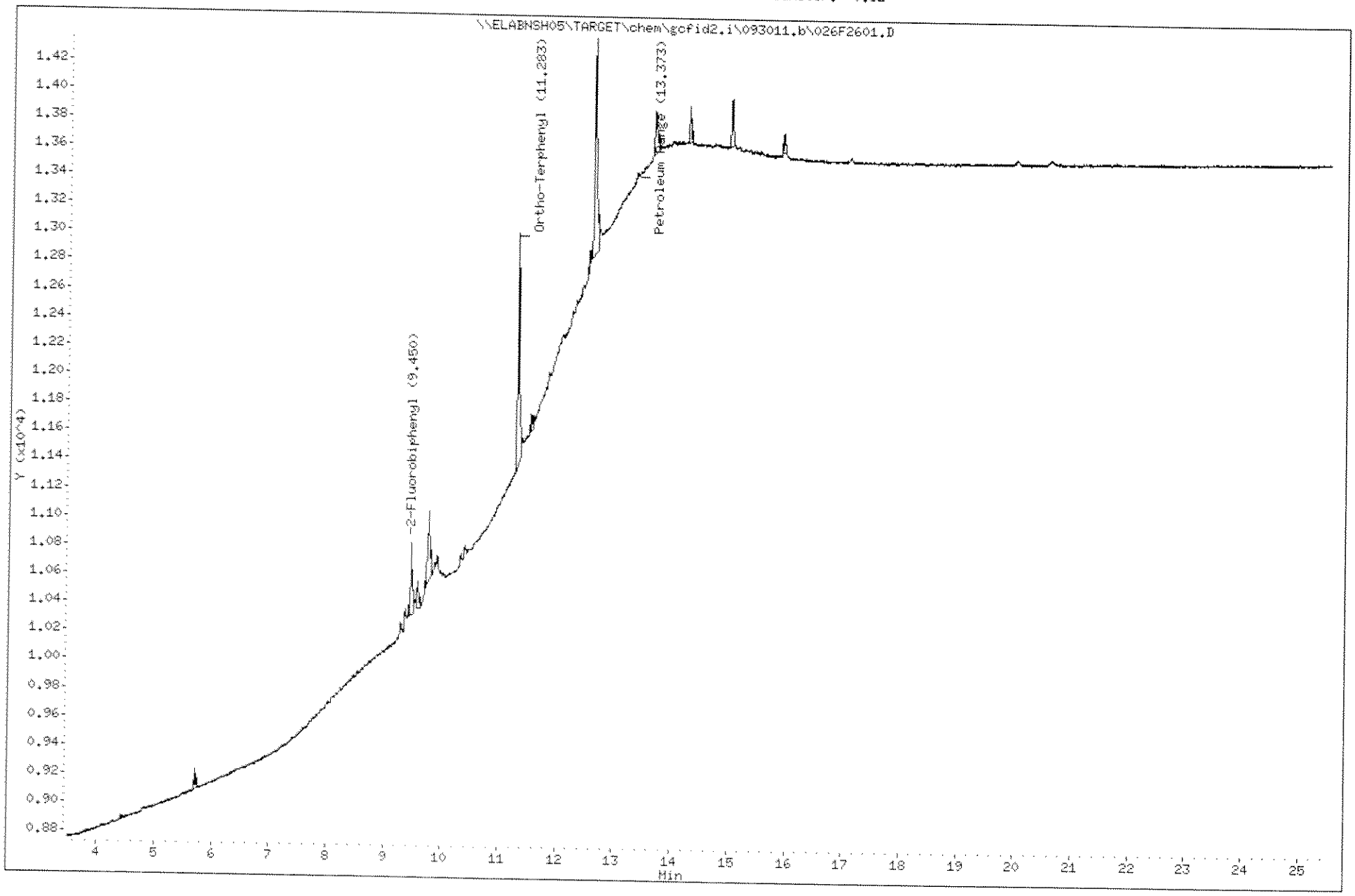
Cat 10/4/11

Data File: \\ELABNSH05\TARGET\chem\gcfid2.i\093011.b\026F2601.D
Date : 01-OCT-2011 02:56
Client ID:
Sample Info: 1109191-05@10

Column phase: ZB-5ms

Instrument: gcfid2.i

Operator: CAT
Column diameter: 0.32



1640

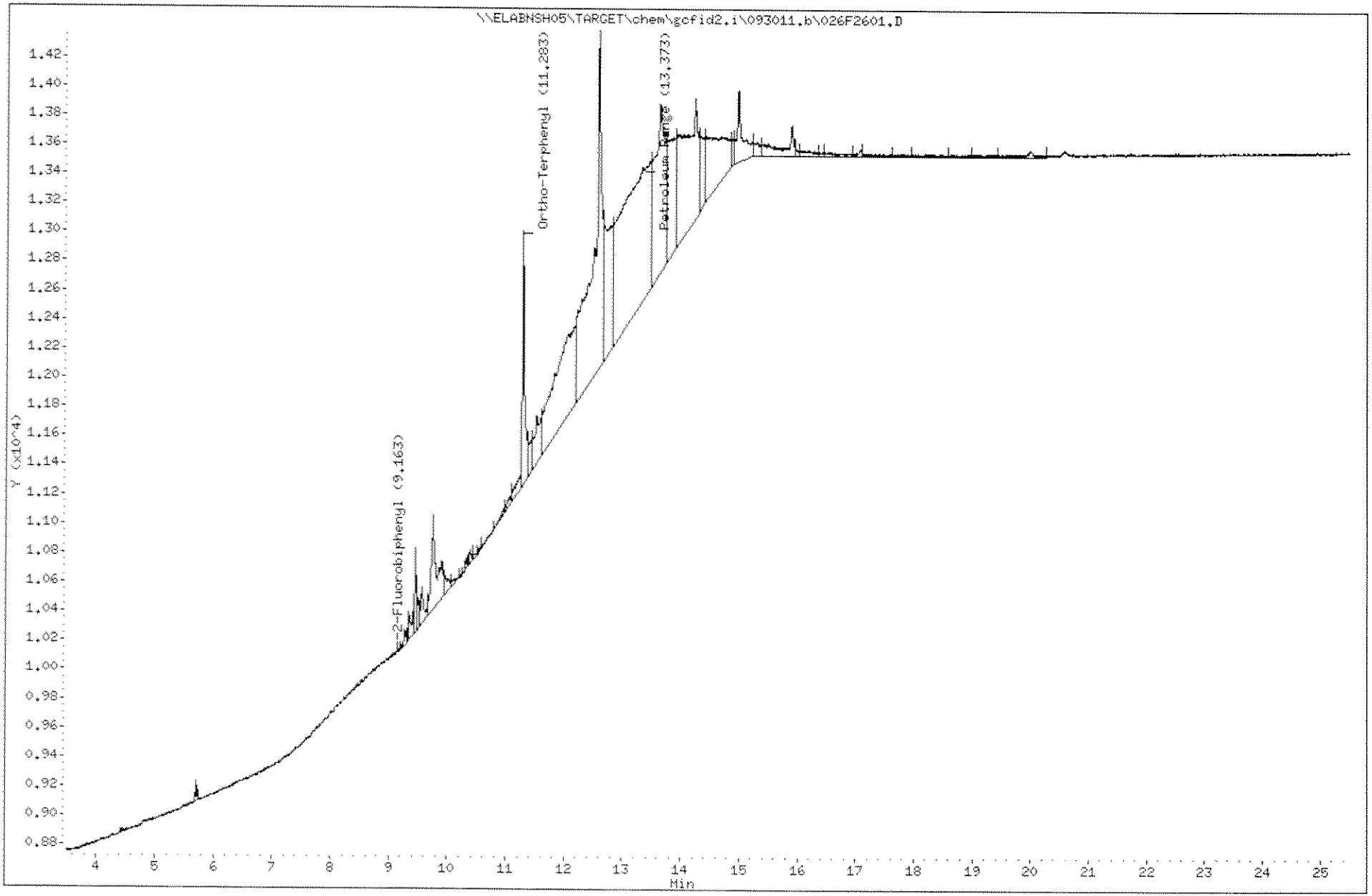
1109191

Data File: \\ELABNSH05\TARGET\chem\gcfid2.i\093011.b\026F2601.D
Date : 01-OCT-2011 02:56
Client ID:
Sample Info: 1109191-05@10

Column phase: ZB-5ms

Instrument: gcfid2.i

Operator: CAT
Column diameter: 0.32



1641

1109191

Laboratory Name

Data file : \\ELABNSH05\TARGET\chem\gcfid2.i\093011.b\027F2701.D
Lab Smp Id: 1109191-06@10
Inj Date : 01-OCT-2011 03:29
Operator : CAT Inst ID: gcfid2.i
Smp Info : 1109191-06@10
Misc Info :
Comment :
Method : \\ELABNSH05\TARGET\chem\gcfid2.i\093011.b\FLPROF.m
Meth Date : 03-Oct-2011 17:46 cthompson Quant Type: ESTD
Cal Date : 23-DEC-2008 20:47 Cal File: 009R0201.D
Als bottle: 27
Dil Factor: 10.00000
Integrator: Falcon Compound Sublist: PROSURR.sub
Target Version: 4.04
Processing Host: TARGET08_VM

Compounds	RT	EXP RT	DLT RT	RESPONSE	CONCENTRATIONS ON-COLUMN (mg/L)	FINAL (mg/L)
$ 3 Ortho-Terphenyl	11.303	11.343	-0.040	4693	2.17012	21.70(RM)

QC Flag Legend

R - Spike/Surrogate failed recovery limits.
M - Compound response manually integrated.

10/4/11

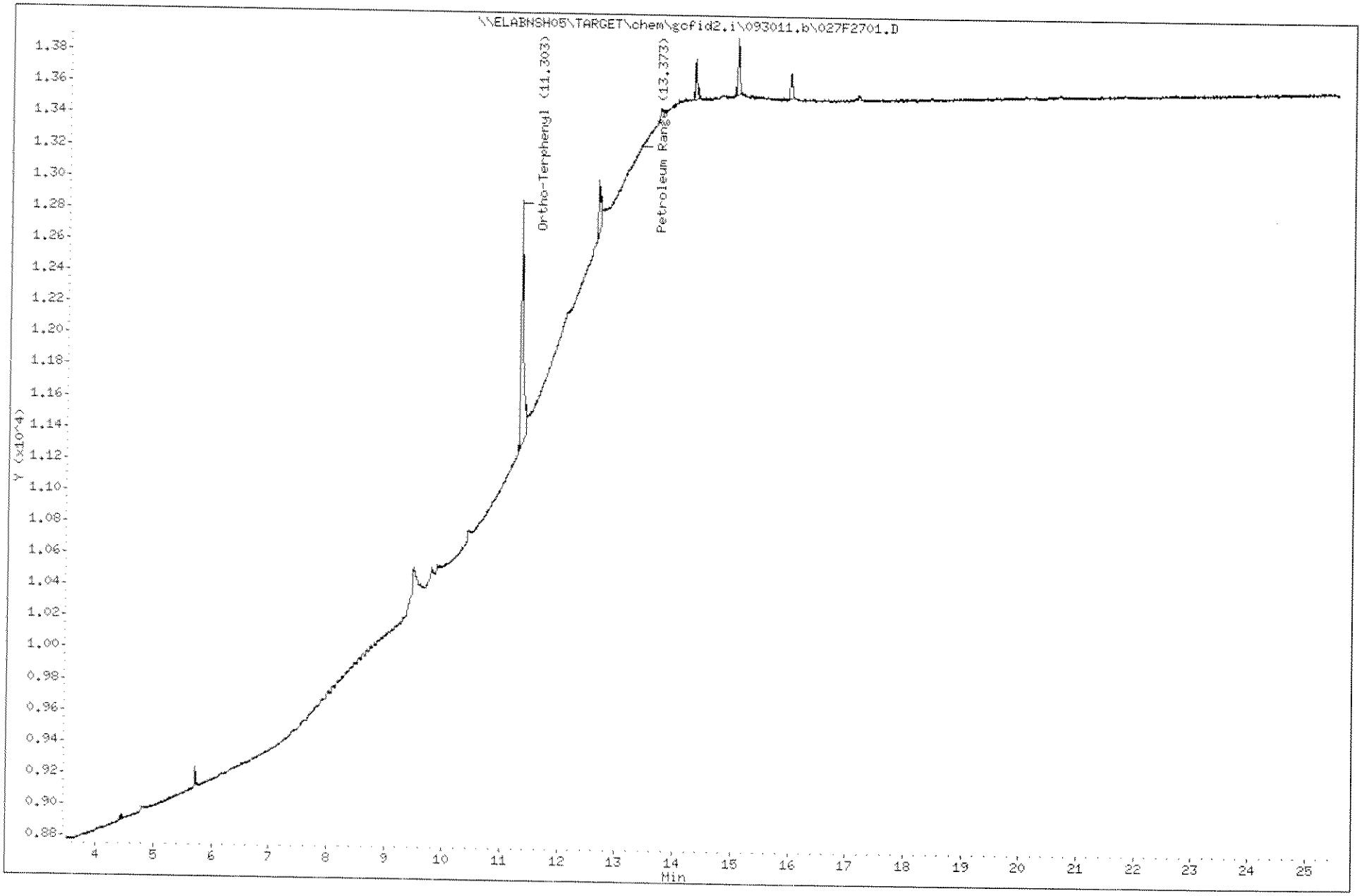
Cat 10/3/11

Data File: \\ELABNSH05\TARGET\chem\gcfid2.i\093011.b\027F2701.D
Date : 01-OCT-2011 03:29
Client ID:
Sample Info: 1109191-06@10

Column phase: ZB-5ms

Instrument: gcfid2.i

Operator: CAT
Column diameter: 0.32



1643

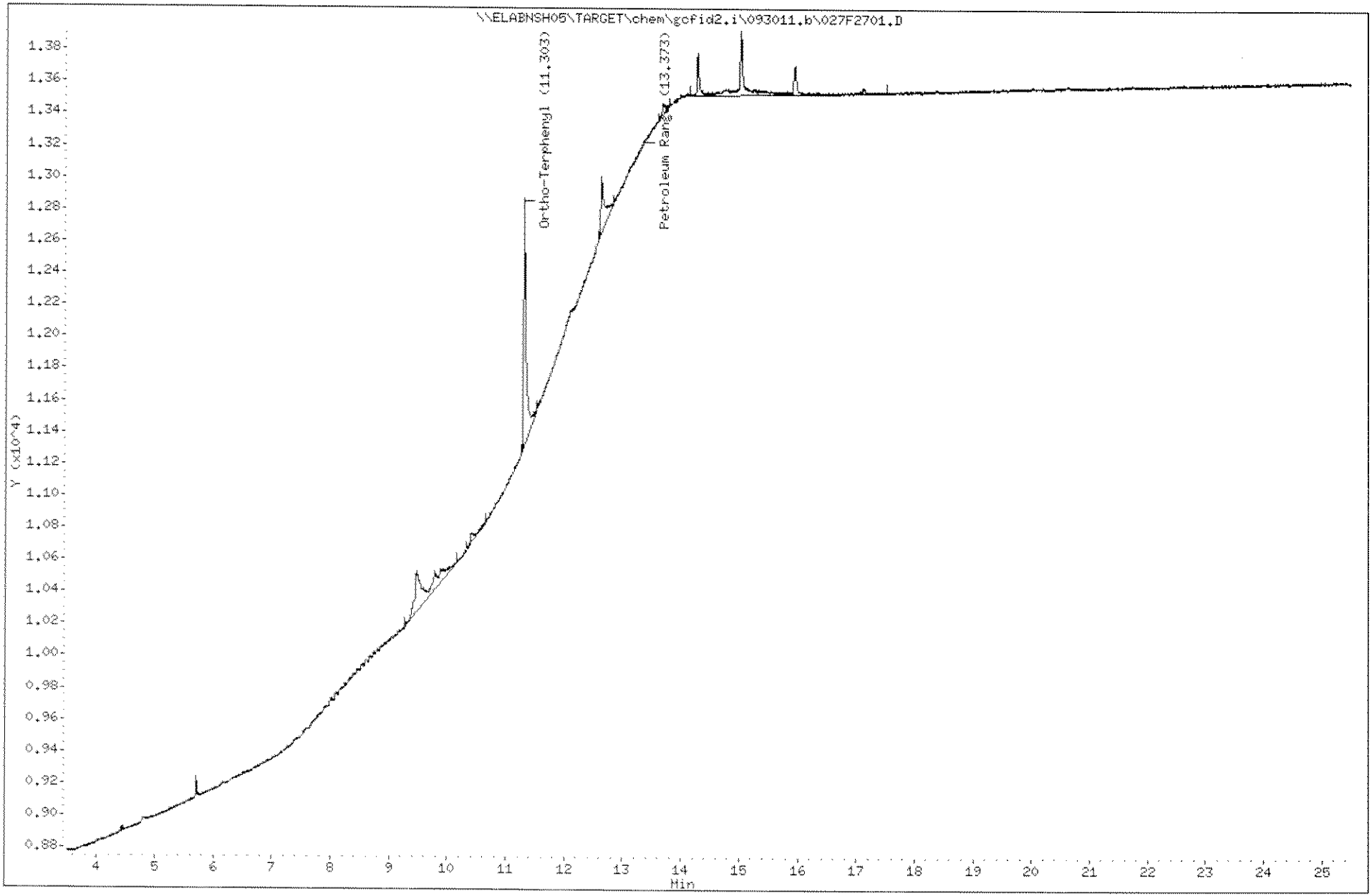
1109191

Data File: \\ELABNSH05\TARGET\chem\gcfid2.i\093011.b\027F2701.D
Date : 01-OCT-2011 03:29
Client ID:
Sample Info: 1109191-06@10

Column phase: ZB-5ms

Instrument: gcfid2.i

Operator: CAT
Column diameter: 0.32



1644

1109191

Laboratory Name

Data file : \\ELABNSH05\TARGET\chem\gcfid2.i\093011.b\032F3201.D
Lab Smp Id: SEQ-CCV3
Inj Date : 01-OCT-2011 06:14
Operator : CAT Inst ID: gcfid2.i
Smp Info : SEQ-CCV3
Misc Info :
Comment :
Method : \\ELABNSH05\TARGET\chem\gcfid2.i\093011.b\FLPROF.m
Meth Date : 03-Oct-2011 17:47 cthompson Quant Type: ESTD
Cal Date : 23-DEC-2008 20:47 Cal File: 009R0201.D
Als bottle: 32 Continuing Calibration Sample
Dil Factor: 1.00000
Integrator: Falcon Compound Sublist: PROSURR.sub
Target Version: 4.04
Processing Host: TARGET08_VM

Compounds	RT	EXP RT	DLT RT	RESPONSE	AMOUNTS CAL-AMT (mg/L)	AMOUNTS ON-COL (mg/L)
$ 1 Petroleum Range	4.219-22.527			7142101 *	4250.00	5029
$ 2 2-Fluorobiphenyl	9.153	9.177	-0.024	42890	25.0000	21.83
$ 3 Ortho-Terphenyl	11.286	11.343	-0.057	66255	25.0000	30.64

10/3/11

10/4/11

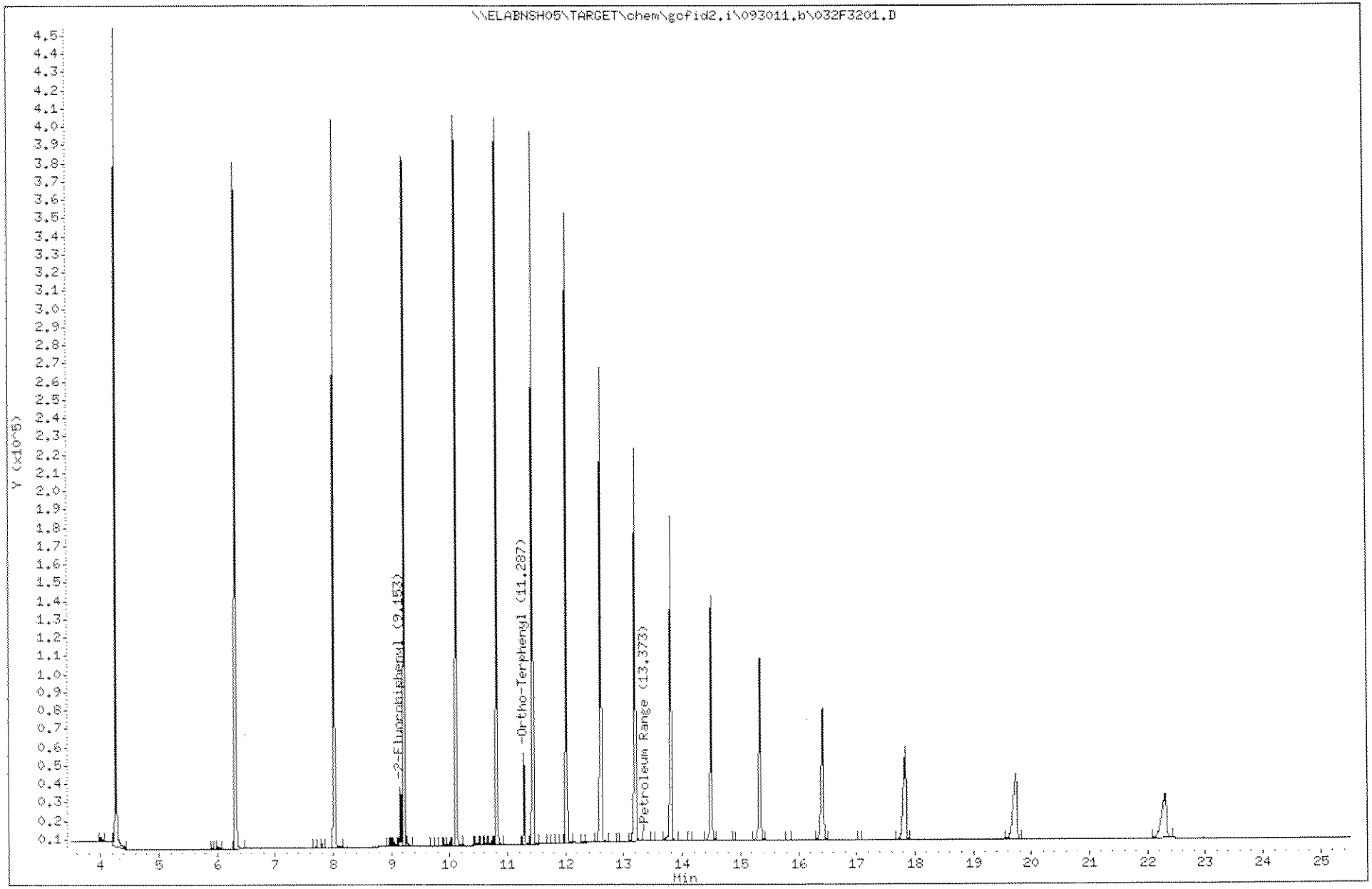
Data File: \\ELABNSH05\TARGET\chem\gcfid2.i\093011.b\032F3201.D
Date : 01-OCT-2011 06:14
Client ID:
Sample Info: SEQ-CCV3

Instrument: gcfid2.i

Operator: CAT

Column phase: ZB-5ms

Column diameter: 0.32



PREPARATION BENCH SHEET

1I27031

Empirical Laboratories, LLC **Printed: 10/29/2011 9:27:12AM**

Instrument:

Matrix: Water **Prepared using: EXT - EXT_3510** **Surrogate used: 11I0113**

Lab Number	Cont ID	Analysis	Prepared	Initial (mL)	Final (mL)	Spike ID	Source ID	ul Spike	ul Surrogate	PH	Extraction Comments
1109191-10	M	SGC_FLPRO_3510C	09/28/2011	1070	2				1000	NA	
1109192-12	M	SGC_FLPRO_3510C	09/28/2011	1070	2				1000	NA	
1I27031-BLK1		QC	09/28/2011	1000	2				1000	NA	
1I27031-BS1		QC	09/28/2011	1000	2	11I0383		1000	1000	NA	
1I27031-BSD1		QC	09/28/2011	1000	2	11I0383		1000	1000	NA	

Reagents Used:

Standard	Description
10J0085	Silica Gel for FLPRO
11H0173	Sodium Sulfate Anhydrous
11I0388	1:1 H2SO4/DIH2O
11I0738	Methylene Chloride

Spiking Witnessed By Date

Preparation Reviewed By Date

Extracts Received By Date

1647

1109191

PREPARATION BENCH SHEET

1I28003

Empirical Laboratories, LLC **Printed: 10/29/2011 9:30:52AM**

Instrument:

Matrix: Solid **Prepared using: EXT - EXT_3546** **Surrogate used: 11I0113**

Lab Number	Cont ID	Analysis	Prepared	Initial (g)	Final (mL)	Spike ID	Source ID	ul Spike	ul Surrogate	PH	Extraction Comments
1109191-01	E	SGC_FLPRO_3546	09/28/2011	15.6	2				1000	NA	potential high conc - special prep
1109191-02	E	SGC_FLPRO_3546	09/28/2011	15	2				1000	NA	potential high conc - special prep / MS/MSD
1109191-03	E	SGC_FLPRO_3546	09/28/2011	15	2				1000	NA	potential high conc - special prep
1109191-04	E	SGC_FLPRO_3546	09/28/2011	15	2				1000	NA	potential high conc - special prep
1109191-05	D	SGC_FLPRO_3546	09/28/2011	15.1	2				1000	NA	potential high conc - special prep
1109191-06	D	SGC_FLPRO_3546	09/28/2011	15	2				1000	NA	potential high conc - special prep
1109192-01	D	SGC_FLPRO_3546	09/28/2011	15.6	2				1000	NA	potential high conc - special prep
1109192-02	D	SGC_FLPRO_3546	09/28/2011	15	2				1000	NA	potential high conc - special prep
1109192-03	E	SGC_FLPRO_3546	09/28/2011	15.7	2				1000	NA	potential high conc - special prep
1109192-04	E	SGC_FLPRO_3546	09/28/2011	15	2				1000	NA	potential high conc - special prep
1109192-05	E	SGC_FLPRO_3546	09/28/2011	15.2	2				1000	NA	potential high conc - special prep
1109192-06	E	SGC_FLPRO_3546	09/28/2011	15.3	2				1000	NA	potential high conc - special prep
1109192-07	D	SGC_FLPRO_3546	09/28/2011	15	2				1000	NA	potential high conc - special prep
1109192-08	E	SGC_FLPRO_3546	09/28/2011	15.5	2				1000	NA	potential high conc - special prep
1109192-09	E	SGC_FLPRO_3546	09/28/2011	15	2				1000	NA	potential high conc - special prep
1109192-10	D	SGC_FLPRO_3546	09/28/2011	15.2	2				1000	NA	potential high conc - special prep
1109192-11	E	SGC_FLPRO_3546	09/28/2011	15.7	2				1000	NA	potential high conc - special prep
1109192-13	E	SGC_FLPRO_3546	09/28/2011	15.2	2				1000	NA	potential high conc - special prep
1109192-14	E	SGC_FLPRO_3546	09/28/2011	15.3	2				1000	NA	potential high conc - special prep
1109192-15	E	SGC_FLPRO_3546	09/28/2011	15.1	2				1000	NA	potential high conc - special prep
1I28003-BLK1		QC	09/28/2011	15	2				1000	NA	
1I28003-BS1		QC	09/28/2011	15	2	11I0383		1000	1000	NA	

Spiking Witnessed By Date

Preparation Reviewed By Date

Extracts Received By Date

1648

1109191

PREPARATION BENCH SHEET

1I28003

Empirical Laboratories, LLC

Printed: 10/29/2011 9:30:52AM

Instrument:

Matrix: Solid **Prepared using: EXT - EXT_3546** **Surrogate used: 11I0113**

Lab Number	Cont ID	Analysis	Prepared	Initial (g)	Final (mL)	Spike ID	Source ID	ul Spike	ul Surrogate	PH	Extraction Comments
1I28003-MS1		QC	09/28/2011	15.5	2	11I0383	1109191-02	1000	1000	NA	
1I28003-MSD1		QC	09/28/2011	15.5	2	11I0383	1109191-02	1000	1000	NA	

Reagents Used:

Standard	Description
10J0085	Silica Gel for FLPRO
11H0173	Sodium Sulfate Anhydrous
11I0738	Methylene Chloride

Spiking Witnessed By Date

Preparation Reviewed By Date

Extracts Received By Date

1649

1109191

Data for SW6010C / SW7470A / SW7471A Forms

ANALYSIS DATA SHEET

FLC-4-SS01-0006-092211

Laboratory: Empirical Laboratories, LLC
Client: Tetra Tech NUS, Inc. (T010)
Matrix: Soil
Sampled: 09/22/11 08:45
% Solids: 97.94

SDG: 1109191
Project: Navy Fuel Depot CTO JM46
Laboratory ID: 1109191-01
Received: 09/24/11 09:00

CAS NO.	Analyte	Conc. (mg/Kg dry)	DL	LOD	LOQ	D.F.	Q	Method	Batch	Analyzed
7439-97-6	Mercury		0.0117	0.0297	0.0330	1	U	SW7471A	1J07003	10/07/11 12:45
7440-36-0	Antimony		1.03	1.65	2.06	1	X U	SW6010C	1J06014	10/10/11 18:12
7440-38-2	Arsenic	0.622	0.619	1.24	2.06	1	I	SW6010C	1J06014	10/10/11 18:12
7440-39-3	Barium	4.53	1.03	4.13	8.25	1	I	SW6010C	1J06014	10/10/11 18:12
7440-41-7	Beryllium		0.206	0.413	1.03	1	U	SW6010C	1J06014	10/10/11 18:12
7440-43-9	Cadmium		0.206	0.413	1.03	1	U	SW6010C	1J06014	10/10/11 18:12
7440-47-3	Chromium	1.73	0.413	0.825	2.06	1	I	SW6010C	1J06014	10/10/11 18:12
7440-50-8	Copper	1.07	0.825	1.65	2.06	1	I	SW6010C	1J06014	10/10/11 18:12
7439-92-1	Lead	3.79	0.309	0.619	1.03	1		SW6010C	1J06014	10/10/11 18:12
7440-02-0	Nickel	1.57	0.619	1.24	2.06	1	I	SW6010C	1J06014	10/10/11 18:12
7782-49-2	Selenium		0.619	1.03	2.06	1	U	SW6010C	1J06014	10/10/11 18:12
7440-22-4	Silver		0.206	0.413	2.06	1	U	SW6010C	1J06014	10/10/11 18:12
7440-28-0	Thallium		0.619	0.825	1.65	1	U	SW6010C	1J06014	10/10/11 18:12
7440-31-5	Tin	3.50	2.06	10.3	41.3	1	IV	SW6010C	1J06014	10/10/11 18:12
7440-66-6	Zinc	5.83	1.03	2.06	4.13	1		SW6010C	1J06014	10/10/11 18:12

ANALYSIS DATA SHEET

FLC-4-SS01-0624-092211

Laboratory: Empirical Laboratories, LLC
Client: Tetra Tech NUS, Inc. (T010)
Matrix: Soil
Sampled: 09/22/11 09:00
% Solids: 96.12

SDG: 1109191
Project: Navy Fuel Depot CTO JM46
Laboratory ID: 1109191-02
Received: 09/24/11 09:00

CAS NO.	Analyte	Conc. (mg/Kg dry)	DL	LOD	LOQ	D.F.	Q	Method	Batch	Analyzed
7439-97-6	Mercury		0.0140	0.0355	0.0355	1	U	SW7471A	1J07004	10/07/11 12:49
7440-36-0	Antimony		1.05	1.68	2.10	1	X U	SW6010C	1J06014	10/10/11 18:17
7440-38-2	Arsenic		0.631	1.26	2.10	1	U	SW6010C	1J06014	10/10/11 18:17
7440-39-3	Barium	11.3	1.05	4.20	8.41	1		SW6010C	1J06014	10/10/11 18:17
7440-41-7	Beryllium		0.210	0.420	1.05	1	U	SW6010C	1J06014	10/10/11 18:17
7440-43-9	Cadmium		0.210	0.420	1.05	1	U	SW6010C	1J06014	10/10/11 18:17
7440-47-3	Chromium	1.82	0.420	0.841	2.10	1	I	SW6010C	1J06014	10/10/11 18:17
7440-50-8	Copper	0.931	0.841	1.68	2.10	1	I	SW6010C	1J06014	10/10/11 18:17
7439-92-1	Lead	1.98	0.315	0.631	1.05	1		SW6010C	1J06014	10/10/11 18:17
7440-02-0	Nickel	1.50	0.631	1.26	2.10	1	I	SW6010C	1J06014	10/10/11 18:17
7782-49-2	Selenium		0.631	1.05	2.10	1	U	SW6010C	1J06014	10/10/11 18:17
7440-22-4	Silver		0.210	0.420	2.10	1	U	SW6010C	1J06014	10/10/11 18:17
7440-28-0	Thallium		0.631	0.841	1.68	1	U	SW6010C	1J06014	10/10/11 18:17
7440-31-5	Tin	3.47	2.10	10.5	42.0	1	IV	SW6010C	1J06014	10/10/11 18:17
7440-66-6	Zinc	4.66	1.05	2.10	4.20	1		SW6010C	1J06014	10/10/11 18:17

ANALYSIS DATA SHEET

FLC-4-SB01-0204-092211

Laboratory: Empirical Laboratories, LLC
Client: Tetra Tech NUS, Inc. (T010)
Matrix: Soil
Sampled: 09/22/11 09:25
% Solids: 89.14

SDG: 1109191
Project: Navy Fuel Depot CTO JM46
Laboratory ID: 1109191-03
Received: 09/24/11 09:00

CAS NO.	Analyte	Conc. (mg/Kg dry)	DL	LOD	LOQ	D.F.	Q	Method	Batch	Analyzed
7439-97-6	Mercury		0.0141	0.0358	0.0358	1	U	SW7471A	1J07004	10/07/11 12:55
7440-36-0	Antimony		1.05	1.68	2.10	1	X U	SW6010C	1J06014	10/10/11 18:40
7440-38-2	Arsenic		0.629	1.26	2.10	1	U	SW6010C	1J06014	10/10/11 18:40
7440-39-3	Barium	2.72	1.05	4.19	8.39	1	I	SW6010C	1J06014	10/10/11 18:40
7440-41-7	Beryllium		0.210	0.419	1.05	1	U	SW6010C	1J06014	10/10/11 18:40
7440-43-9	Cadmium		0.210	0.419	1.05	1	U	SW6010C	1J06014	10/10/11 18:40
7440-47-3	Chromium	1.19	0.419	0.839	2.10	1	I	SW6010C	1J06014	10/10/11 18:40
7440-50-8	Copper		0.839	1.68	2.10	1	U	SW6010C	1J06014	10/10/11 18:40
7439-92-1	Lead	0.738	0.315	0.629	1.05	1	I	SW6010C	1J06014	10/10/11 18:40
7440-02-0	Nickel		0.629	1.26	2.10	1	U	SW6010C	1J06014	10/10/11 18:40
7782-49-2	Selenium		0.629	1.05	2.10	1	U	SW6010C	1J06014	10/10/11 18:40
7440-22-4	Silver		0.210	0.419	2.10	1	U	SW6010C	1J06014	10/10/11 18:40
7440-28-0	Thallium		0.629	0.839	1.68	1	U	SW6010C	1J06014	10/10/11 18:40
7440-31-5	Tin	3.44	2.10	10.5	41.9	1	IV	SW6010C	1J06014	10/10/11 18:40
7440-66-6	Zinc	1.44	1.05	2.10	4.19	1	I	SW6010C	1J06014	10/10/11 18:40

ANALYSIS DATA SHEET

FLC-4-SS02-0006-092211

Laboratory: Empirical Laboratories, LLC
Client: Tetra Tech NUS, Inc. (T010)
Matrix: Soil
Sampled: 09/22/11 10:05
% Solids: 93.66

SDG: 1109191
Project: Navy Fuel Depot CTO JM46
Laboratory ID: 1109191-04
Received: 09/24/11 09:00

CAS NO.	Analyte	Conc. (mg/Kg dry)	DL	LOD	LOQ	D.F.	Q	Method	Batch	Analyzed
7439-97-6	Mercury	0.0163	0.0134	0.0341	0.0341	1	I	SW7471A	1J07004	10/07/11 12:56
7440-36-0	Antimony		1.01	1.61	2.01	1	X U	SW6010C	1J06014	10/10/11 18:45
7440-38-2	Arsenic	1.38	0.604	1.21	2.01	1	I	SW6010C	1J06014	10/10/11 18:45
7440-39-3	Barium	17.5	1.01	4.03	8.06	1		SW6010C	1J06014	10/10/11 18:45
7440-41-7	Beryllium	0.343	0.201	0.403	1.01	1	I	SW6010C	1J06014	10/10/11 18:45
7440-43-9	Cadmium		0.201	0.403	1.01	1	U	SW6010C	1J06014	10/10/11 18:45
7440-47-3	Chromium	7.09	0.403	0.806	2.01	1		SW6010C	1J06014	10/10/11 18:45
7440-50-8	Copper	5.89	0.806	1.61	2.01	1		SW6010C	1J06014	10/10/11 18:45
7439-92-1	Lead	15.9	0.604	1.21	2.01	2	D	SW6010C	1J06014	10/11/11 08:13
7440-02-0	Nickel	6.63	0.604	1.21	2.01	1		SW6010C	1J06014	10/10/11 18:45
7782-49-2	Selenium		0.604	1.01	2.01	1	U	SW6010C	1J06014	10/10/11 18:45
7440-22-4	Silver		0.201	0.403	2.01	1	U	SW6010C	1J06014	10/10/11 18:45
7440-28-0	Thallium		0.604	0.806	1.61	1	U	SW6010C	1J06014	10/10/11 18:45
7440-31-5	Tin	3.75	2.01	10.1	40.3	1	IV	SW6010C	1J06014	10/10/11 18:45
7440-66-6	Zinc	14.4	2.01	4.03	8.06	2	D	SW6010C	1J06014	10/11/11 08:13

ANALYSIS DATA SHEET

FLC-4-SS02-0624-092211

Laboratory: Empirical Laboratories, LLC
Client: Tetra Tech NUS, Inc. (T010)
Matrix: Soil
Sampled: 09/22/11 10:20
% Solids: 98.08

SDG: 1109191
Project: Navy Fuel Depot CTO JM46
Laboratory ID: 1109191-05
Received: 09/24/11 09:00

CAS NO.	Analyte	Conc. (mg/Kg dry)	DL	LOD	LOQ	D.F.	Q	Method	Batch	Analyzed
7439-97-6	Mercury	0.0112	0.0105	0.0266	0.0330	1	I	SW7471A	1J07004	10/07/11 12:57
7440-36-0	Antimony		0.944	1.51	1.89	1	X U	SW6010C	1J06014	10/10/11 18:50
7440-38-2	Arsenic		0.566	1.13	1.89	1	U	SW6010C	1J06014	10/10/11 18:50
7440-39-3	Barium	5.68	0.944	3.78	7.55	1	I	SW6010C	1J06014	10/10/11 18:50
7440-41-7	Beryllium		0.189	0.378	0.944	1	U	SW6010C	1J06014	10/10/11 18:50
7440-43-9	Cadmium		0.189	0.378	0.944	1	U	SW6010C	1J06014	10/10/11 18:50
7440-47-3	Chromium	1.76	0.378	0.755	1.89	1	I	SW6010C	1J06014	10/10/11 18:50
7440-50-8	Copper		0.755	1.51	1.89	1	U	SW6010C	1J06014	10/10/11 18:50
7439-92-1	Lead	2.67	0.283	0.566	0.944	1		SW6010C	1J06014	10/10/11 18:50
7440-02-0	Nickel	1.54	0.566	1.13	1.89	1	I	SW6010C	1J06014	10/10/11 18:50
7782-49-2	Selenium		0.566	0.944	1.89	1	U	SW6010C	1J06014	10/10/11 18:50
7440-22-4	Silver		0.189	0.378	1.89	1	U	SW6010C	1J06014	10/10/11 18:50
7440-28-0	Thallium		0.566	0.755	1.51	1	U	SW6010C	1J06014	10/10/11 18:50
7440-31-5	Tin	3.18	1.89	9.44	37.8	1	IV	SW6010C	1J06014	10/10/11 18:50
7440-66-6	Zinc	3.58	0.944	1.89	3.78	1	I	SW6010C	1J06014	10/10/11 18:50

ANALYSIS DATA SHEET

FLC-4-SB02-0204-092211

Laboratory: Empirical Laboratories, LLC
Client: Tetra Tech NUS, Inc. (T010)
Matrix: Soil
Sampled: 09/22/11 10:30
% Solids: 94.12

SDG: 1109191
Project: Navy Fuel Depot CTO JM46
Laboratory ID: 1109191-06
Received: 09/24/11 09:00

CAS NO.	Analyte	Conc. (mg/Kg dry)	DL	LOD	LOQ	D.F.	Q	Method	Batch	Analyzed
7439-97-6	Mercury		0.0109	0.0277	0.0330	1	U	SW7471A	1J07004	10/07/11 12:59
7440-36-0	Antimony		1.11	1.77	2.21	1	X U	SW6010C	1J06014	10/10/11 18:54
7440-38-2	Arsenic		0.664	1.33	2.21	1	U	SW6010C	1J06014	10/10/11 18:54
7440-39-3	Barium	7.38	1.11	4.43	8.85	1	I	SW6010C	1J06014	10/10/11 18:54
7440-41-7	Beryllium		0.221	0.443	1.11	1	U	SW6010C	1J06014	10/10/11 18:54
7440-43-9	Cadmium		0.221	0.443	1.11	1	U	SW6010C	1J06014	10/10/11 18:54
7440-47-3	Chromium	2.33	0.443	0.885	2.21	1		SW6010C	1J06014	10/10/11 18:54
7440-50-8	Copper		0.885	1.77	2.21	1	U	SW6010C	1J06014	10/10/11 18:54
7439-92-1	Lead	2.78	0.332	0.664	1.11	1		SW6010C	1J06014	10/10/11 18:54
7440-02-0	Nickel	1.71	0.664	1.33	2.21	1	I	SW6010C	1J06014	10/10/11 18:54
7782-49-2	Selenium		0.664	1.11	2.21	1	U	SW6010C	1J06014	10/10/11 18:54
7440-22-4	Silver		0.221	0.443	2.21	1	U	SW6010C	1J06014	10/10/11 18:54
7440-28-0	Thallium		0.664	0.885	1.77	1	U	SW6010C	1J06014	10/10/11 18:54
7440-31-5	Tin	3.63	2.21	11.1	44.3	1	IV	SW6010C	1J06014	10/10/11 18:54
7440-66-6	Zinc	4.13	1.11	2.21	4.43	1	I	SW6010C	1J06014	10/10/11 18:54

ANALYSIS DATA SHEET

FLC-4-RB01-092211

Laboratory:	Empirical Laboratories, LLC	SDG:	1109191
Client:	Tetra Tech NUS, Inc. (T010)	Project:	Navy Fuel Depot CTO JM46
Matrix:	Water	Laboratory ID:	1109191-10
Sampled:	09/22/11 11:15	Received:	09/24/11 09:00
% Solids:	0.00		

CAS NO.	Analyte	Conc. (ug/L)	DL	LOD	LOQ	D.F.	Q	Method	Batch	Analyzed
7439-97-6	Mercury		0.0800	0.200	0.200	1	U	SW7470A	1I28010	09/28/11 15:12

ANALYSIS DATA SHEET

FLC-4-RB01-092211

Laboratory:	Empirical Laboratories, LLC	SDG:	1109191
Client:	Tetra Tech NUS, Inc. (T010)	Project:	Navy Fuel Depot CTO JM46
Matrix:	Water	Laboratory ID:	1109191-11
Sampled:	09/22/11 11:15	Received:	09/24/11 09:00
% Solids:	0.00		

CAS NO.	Analyte	Conc. (ug/L)	DL	LOD	LOQ	D.F.	Q	Method	Batch	Analyzed
7440-36-0	Antimony		1.25	2.00	2.50	1	X U	SW6010C	1K08018	11/11/11 19:38
7440-38-2	Arsenic		0.750	1.50	2.50	1	U	SW6010C	1K08018	11/11/11 19:38
7440-39-3	Barium		1.25	2.50	10.0	1	U	SW6010C	1K08018	11/11/11 19:38
7440-41-7	Beryllium		0.250	0.500	1.25	1	U	SW6010C	1K08018	11/11/11 19:38
7440-43-9	Cadmium		0.250	0.500	1.25	1	U	SW6010C	1K08018	11/11/11 19:38
7440-47-3	Chromium		0.500	1.00	2.50	1	U	SW6010C	1K08018	11/11/11 19:38
7440-50-8	Copper		1.25	2.00	2.50	1	U	SW6010C	1K08018	11/11/11 19:38
7439-92-1	Lead		0.375	0.750	0.750	1	U	SW6010C	1K08018	11/11/11 19:38
7440-02-0	Nickel		0.750	1.50	2.50	1	U	SW6010C	1K08018	11/11/11 19:38
7782-49-2	Selenium		0.750	1.25	2.50	1	U	SW6010C	1K08018	11/11/11 19:38
7440-22-4	Silver		0.250	0.500	2.50	1	U	SW6010C	1K08018	11/11/11 19:38
7440-28-0	Thallium		0.750	1.00	2.00	1	U	SW6010C	1K08018	11/11/11 19:38
7440-31-5	Tin		2.50	5.00	7.50	1	U	SW6010C	1K08018	11/11/11 19:38
7440-66-6	Zinc		1.25	2.50	5.00	1	U	SW6010C	1K08018	11/11/11 19:38

INITIAL AND CONTINUING CALIBRATION CHECK

SW7470A

Laboratory: Empirical Laboratories, LLC
Client: Tetra Tech NUS, Inc. (T010)
Instrument ID: ME-FIMS

SDG: 1109191
Project: Navy Fuel Depot CTO JM46
Calibration: 1272004
Sequence: 1I27214

Lab Sample ID	Analyte	True	Found	%R	Units	Control Limit
1I27214-ICV1	Mercury	4.000	3.785	94.6	ug/L	+/- 15.00%
1I27214-CCV1	Mercury	4.000	3.829	95.7	ug/L	+/- 15.00%
1I27214-CCV2	Mercury	4.000	3.842	96.1	ug/L	+/- 15.00%
1I27214-CCV3	Mercury	2.000	1.822	91.1	ug/L	+/- 15.00%
1I27214-CCV4	Mercury	2.000	1.811	90.6	ug/L	+/- 15.00%
1I27214-CCV5	Mercury	4.000	3.858	96.4	ug/L	+/- 15.00%

INITIAL AND CONTINUING CALIBRATION CHECK

SW6010C

Laboratory: Empirical Laboratories, LLC
Client: Tetra Tech NUS, Inc. (T010)
Instrument ID: ME-ICP

SDG: 1109191
Project: Navy Fuel Depot CTO JM46
Calibration: 1284003
Sequence: 1J28401

Lab Sample ID	Analyte	True	Found	%R	Units	Control Limit
1J28401-ICV1	Antimony	1000	1014	101	ug/L	+/- 10.00%
	Arsenic	1000	1029	103	ug/L	+/- 10.00%
	Barium	1000	987.0	98.7	ug/L	+/- 10.00%
	Beryllium	1000	1037	104	ug/L	+/- 10.00%
	Cadmium	1000	1081	108	ug/L	+/- 10.00%
	Chromium	1000	984.0	98.4	ug/L	+/- 10.00%
	Copper	1000	988.9	98.9	ug/L	+/- 10.00%
	Lead	1000	984.3	98.4	ug/L	+/- 10.00%
	Nickel	1000	999.4	99.9	ug/L	+/- 10.00%
	Selenium	1000	1012	101	ug/L	+/- 10.00%
	Silver	500.0	489.9	98.0	ug/L	+/- 10.00%
	Thallium	1000	982.0	98.2	ug/L	+/- 10.00%
	Tin	1000	1016	102	ug/L	+/- 10.00%
	Zinc	1000	1026	103	ug/L	+/- 10.00%
1J28401-CCV1	Antimony	1000	1030	103	ug/L	+/- 10.00%
	Arsenic	1000	1024	102	ug/L	+/- 10.00%
	Barium	1000	985.6	98.6	ug/L	+/- 10.00%
	Beryllium	1000	1023	102	ug/L	+/- 10.00%
	Cadmium	1000	1060	106	ug/L	+/- 10.00%
	Chromium	1000	1014	101	ug/L	+/- 10.00%
	Copper	1000	1014	101	ug/L	+/- 10.00%
	Lead	1000	995.5	99.6	ug/L	+/- 10.00%
	Nickel	1000	1006	101	ug/L	+/- 10.00%
	Selenium	1000	1029	103	ug/L	+/- 10.00%
	Silver	500.0	482.4	96.5	ug/L	+/- 10.00%
	Thallium	1000	996.8	99.7	ug/L	+/- 10.00%
	Tin	1000	1007	101	ug/L	+/- 10.00%
	Zinc	1000	1031	103	ug/L	+/- 10.00%
1J28401-CCV6	**Antimony**	**1000**	**1107**	**111**	**ug/L**	+/- 10.00%
	Arsenic	1000	1055	106	ug/L	+/- 10.00%
	Barium	1000	1030	103	ug/L	+/- 10.00%
	Beryllium	1000	1026	103	ug/L	+/- 10.00%
	Cadmium	1000	1090	109	ug/L	+/- 10.00%
	Chromium	1000	1040	104	ug/L	+/- 10.00%
	Copper	1000	1060	106	ug/L	+/- 10.00%
	Lead	1000	1046	105	ug/L	+/- 10.00%
	Nickel	1000	1035	104	ug/L	+/- 10.00%
	Selenium	1000	1078	108	ug/L	+/- 10.00%

INITIAL AND CONTINUING CALIBRATION CHECK

SW6010C

Laboratory: Empirical Laboratories, LLC
Client: Tetra Tech NUS, Inc. (T010)
Instrument ID: ME-ICP

SDG: 1109191
Project: Navy Fuel Depot CTO JM46
Calibration: 1284003
Sequence: 1J28401

Lab Sample ID	Analyte	True	Found	%R	Units	Control Limit
1J28401-CCV6	Silver	500.0	487.2	97.4	ug/L	+/- 10.00%
	Thallium	1000	1021	102	ug/L	+/- 10.00%
	Tin	1000	1049	105	ug/L	+/- 10.00%
	Zinc	1000	1072	107	ug/L	+/- 10.00%
1J28401-CCV7	**Antimony**	**1000**	**1176**	**118**	**ug/L**	+/- 10.00%
	Arsenic	1000	1058	106	ug/L	+/- 10.00%
	Barium	1000	1060	106	ug/L	+/- 10.00%
	Beryllium	1000	968.0	96.8	ug/L	+/- 10.00%
	Cadmium	1000	1096	110	ug/L	+/- 10.00%
	Chromium	1000	1050	105	ug/L	+/- 10.00%
	Copper	1000	1092	109	ug/L	+/- 10.00%
	Lead	1000	1080	108	ug/L	+/- 10.00%
	Nickel	1000	1040	104	ug/L	+/- 10.00%
	Selenium	1000	1094	109	ug/L	+/- 10.00%
	Silver	500.0	479.8	96.0	ug/L	+/- 10.00%
	Thallium	1000	1014	101	ug/L	+/- 10.00%
	Tin	1000	1072	107	ug/L	+/- 10.00%
	Zinc	1000	1099	110	ug/L	+/- 10.00%
1J28401-CCV8	**Antimony**	**1000**	**1142**	**114**	**ug/L**	+/- 10.00%
	Arsenic	1000	1060	106	ug/L	+/- 10.00%
	Barium	1000	1048	105	ug/L	+/- 10.00%
	Beryllium	1000	996.7	99.7	ug/L	+/- 10.00%
	Cadmium	1000	1098	110	ug/L	+/- 10.00%
	Chromium	1000	1054	105	ug/L	+/- 10.00%
	Copper	1000	1078	108	ug/L	+/- 10.00%
	Lead	1000	1066	107	ug/L	+/- 10.00%
	Nickel	1000	1042	104	ug/L	+/- 10.00%
	Selenium	1000	1087	109	ug/L	+/- 10.00%
	Silver	500.0	486.3	97.3	ug/L	+/- 10.00%
	Thallium	1000	1023	102	ug/L	+/- 10.00%
	Tin	1000	1062	106	ug/L	+/- 10.00%
	Zinc	1000	1087	109	ug/L	+/- 10.00%
1J28401-CCV9	**Antimony**	**1000**	**1172**	**117**	**ug/L**	+/- 10.00%
	Arsenic	1000	1057	106	ug/L	+/- 10.00%
	Barium	1000	1061	106	ug/L	+/- 10.00%
	Beryllium	1000	979.2	97.9	ug/L	+/- 10.00%
	Cadmium	1000	1095	110	ug/L	+/- 10.00%
	Chromium	1000	1045	105	ug/L	+/- 10.00%

INITIAL AND CONTINUING CALIBRATION CHECK

SW6010C

Laboratory: Empirical Laboratories, LLC
Client: Tetra Tech NUS, Inc. (T010)
Instrument ID: ME-ICP

SDG: 1109191
Project: Navy Fuel Depot CTO JM46
Calibration: 1284003
Sequence: 1J28401

Lab Sample ID	Analyte	True	Found	%R	Units	Control Limit
1J28401-CCV9	Copper	1000	1085	108	ug/L	+/- 10.00%
	Lead	1000	1080	108	ug/L	+/- 10.00%
	Nickel	1000	1040	104	ug/L	+/- 10.00%
	Selenium	1000	1093	109	ug/L	+/- 10.00%
	Silver	500.0	478.0	95.6	ug/L	+/- 10.00%
	Thallium	1000	1014	101	ug/L	+/- 10.00%
	Tin	1000	1069	107	ug/L	+/- 10.00%
	Zinc	1000	1096	110	ug/L	+/- 10.00%
1J28401-CCVA	Antimony	1000	1048	105	ug/L	+/- 10.00%
	Arsenic	1000	1053	105	ug/L	+/- 10.00%
	Barium	1000	1012	101	ug/L	+/- 10.00%
	Beryllium	1000	1070	107	ug/L	+/- 10.00%
	Cadmium	1000	1090	109	ug/L	+/- 10.00%
	Chromium	1000	1034	103	ug/L	+/- 10.00%
	Copper	1000	1030	103	ug/L	+/- 10.00%
	Lead	1000	1017	102	ug/L	+/- 10.00%
	Nickel	1000	1034	103	ug/L	+/- 10.00%
	Selenium	1000	1056	106	ug/L	+/- 10.00%
	Silver	500.0	494.6	98.9	ug/L	+/- 10.00%
	Thallium	1000	1028	103	ug/L	+/- 10.00%
	Tin	1000	1026	103	ug/L	+/- 10.00%
	Zinc	1000	1047	105	ug/L	+/- 10.00%
1J28401-CCVB	Antimony	1000	1061	106	ug/L	+/- 10.00%
	Arsenic	1000	1054	105	ug/L	+/- 10.00%
	Barium	1000	1014	101	ug/L	+/- 10.00%
	Beryllium	1000	1059	106	ug/L	+/- 10.00%
	Cadmium	1000	1091	109	ug/L	+/- 10.00%
	Chromium	1000	1033	103	ug/L	+/- 10.00%
	Copper	1000	1032	103	ug/L	+/- 10.00%
	Lead	1000	1021	102	ug/L	+/- 10.00%
	Nickel	1000	1035	104	ug/L	+/- 10.00%
	Selenium	1000	1062	106	ug/L	+/- 10.00%
	Silver	500.0	491.8	98.4	ug/L	+/- 10.00%
	Thallium	1000	1027	103	ug/L	+/- 10.00%
	Tin	1000	1036	104	ug/L	+/- 10.00%
	Zinc	1000	1058	106	ug/L	+/- 10.00%

INITIAL AND CONTINUING CALIBRATION CHECK

SW7471A

Laboratory: Empirical Laboratories, LLC
Client: Tetra Tech NUS, Inc. (T010)
Instrument ID: ME-FIMS

SDG: 1109191
Project: Navy Fuel Depot CTO JM46
Calibration: 1284004
Sequence: 1J28407

Lab Sample ID	Analyte	True	Found	%R	Units	Control Limit
1J28407-ICV1	Mercury	4.000	4.245	106	ug/L	+/- 15.00%
1J28407-CCV1	Mercury	4.000	4.072	102	ug/L	+/- 15.00%
1J28407-CCV2	Mercury	4.000	4.096	102	ug/L	+/- 15.00%
1J28407-CCV3	Mercury	2.000	1.975	98.7	ug/L	+/- 15.00%
1J28407-CCV4	Mercury	2.000	1.999	99.9	ug/L	+/- 15.00%

INITIAL AND CONTINUING CALIBRATION CHECK

SW6010C

Laboratory: Empirical Laboratories, LLC
Client: Tetra Tech NUS, Inc. (T010)
Instrument ID: ME-ICP

SDG: 1109191
Project: Navy Fuel Depot CTO JM46
Calibration: 1320005
Sequence: 1K32008

Lab Sample ID	Analyte	True	Found	%R	Units	Control Limit
1K32008-ICV1	Antimony	1000	1010	101	ug/L	+/- 10.00%
	Arsenic	1000	1039	104	ug/L	+/- 10.00%
	Barium	1000	991.5	99.2	ug/L	+/- 10.00%
	Beryllium	1000	1051	105	ug/L	+/- 10.00%
	Cadmium	1000	1080	108	ug/L	+/- 10.00%
	Chromium	1000	971.3	97.1	ug/L	+/- 10.00%
	Copper	1000	995.8	99.6	ug/L	+/- 10.00%
	Lead	1000	978.6	97.9	ug/L	+/- 10.00%
	Nickel	1000	1003	100	ug/L	+/- 10.00%
	Selenium	1000	1018	102	ug/L	+/- 10.00%
	Silver	500.0	498.8	99.8	ug/L	+/- 10.00%
	Thallium	1000	980.5	98.1	ug/L	+/- 10.00%
	Tin	1000	1012	101	ug/L	+/- 10.00%
	Zinc	1000	1023	102	ug/L	+/- 10.00%
1K32008-CCV1	Antimony	1000	979.4	97.9	ug/L	+/- 10.00%
	Arsenic	1000	1031	103	ug/L	+/- 10.00%
	Barium	1000	959.2	95.9	ug/L	+/- 10.00%
	Beryllium	1000	1088	109	ug/L	+/- 10.00%
	Cadmium	1000	1049	105	ug/L	+/- 10.00%
	Chromium	1000	996.4	99.6	ug/L	+/- 10.00%
	Copper	1000	979.4	97.9	ug/L	+/- 10.00%
	Lead	1000	958.7	95.9	ug/L	+/- 10.00%
	Nickel	1000	995.1	99.5	ug/L	+/- 10.00%
	Selenium	1000	1022	102	ug/L	+/- 10.00%
	Silver	500.0	495.2	99.0	ug/L	+/- 10.00%
	Thallium	1000	1002	100	ug/L	+/- 10.00%
	Tin	1000	993.7	99.4	ug/L	+/- 10.00%
	Zinc	1000	997.2	99.7	ug/L	+/- 10.00%
1K32008-CCV6	**Antimony**	**1000**	**1137**	**114**	**ug/L**	+/- 10.00%
	Arsenic	1000	1045	105	ug/L	+/- 10.00%
	Barium	1000	1022	102	ug/L	+/- 10.00%
	Beryllium	1000	969.6	97.0	ug/L	+/- 10.00%
	Cadmium	1000	1059	106	ug/L	+/- 10.00%
	Chromium	1000	1022	102	ug/L	+/- 10.00%
	Copper	1000	1086	109	ug/L	+/- 10.00%
	Lead	1000	1042	104	ug/L	+/- 10.00%
	Nickel	1000	1016	102	ug/L	+/- 10.00%
	Selenium	1000	1082	108	ug/L	+/- 10.00%

INITIAL AND CONTINUING CALIBRATION CHECK

SW6010C

Laboratory: Empirical Laboratories, LLC
Client: Tetra Tech NUS, Inc. (T010)
Instrument ID: ME-ICP

SDG: 1109191
Project: Navy Fuel Depot CTO JM46
Calibration: 1320005
Sequence: 1K32008

Lab Sample ID	Analyte	True	Found	%R	Units	Control Limit
1K32008-CCV6	Silver	500.0	480.0	96.0	ug/L	+/- 10.00%
	Thallium	1000	999.9	100	ug/L	+/- 10.00%
	Tin	1000	1047	105	ug/L	+/- 10.00%
	Zinc	1000	1048	105	ug/L	+/- 10.00%
1K32008-CCV7	**Antimony**	**1000**	**1130**	**113**	**ug/L**	+/- 10.00%
	Arsenic	1000	1042	104	ug/L	+/- 10.00%
	Barium	1000	1018	102	ug/L	+/- 10.00%
	Beryllium	1000	959.6	96.0	ug/L	+/- 10.00%
	Cadmium	1000	1051	105	ug/L	+/- 10.00%
	Chromium	1000	998.4	99.8	ug/L	+/- 10.00%
	Copper	1000	1077	108	ug/L	+/- 10.00%
	Lead	1000	1034	103	ug/L	+/- 10.00%
	Nickel	1000	1009	101	ug/L	+/- 10.00%
	Selenium	1000	1073	107	ug/L	+/- 10.00%
	Silver	500.0	470.7	94.1	ug/L	+/- 10.00%
	Thallium	1000	988.6	98.9	ug/L	+/- 10.00%
	Tin	1000	1041	104	ug/L	+/- 10.00%
	Zinc	1000	1045	105	ug/L	+/- 10.00%

CRDL STANDARD

SW7470A

Laboratory: Empirical Laboratories, LLC

SDG: 1109191

Client: Tetra Tech NUS, Inc. (T010)

Project: Navy Fuel Depot CTO JM46

Instrument ID: ME-FIMS

Calibration: 1272004

Sequence: 1I27214

Lab Sample ID	Analyte	True	Found	%R	Units	QC Limts
1I27214-CRL1	Mercury	0.2000	0.1702	85.1	ug/L	70 - 130
1I27214-CRL2	Mercury	0.2000	0.1770	88.5	ug/L	70 - 130

CRDL STANDARD

SW6010C

Laboratory: Empirical Laboratories, LLC
SDG: 1109191
Client: Tetra Tech NUS, Inc. (T010)
Project: Navy Fuel Depot CTO JM46
Instrument ID: ME-ICP
Calibration: 1284003
Sequence: 1J28401

Lab Sample ID	Analyte	True	Found	%R	Units	QC Limts
1J28401-CRL1	Antimony	8.000	8.596	107	ug/L	80 - 120
	Barium	10.00	10.46	105	ug/L	80 - 120
	Beryllium	2.000	2.053	103	ug/L	80 - 120
	Cadmium	2.000	2.167	108	ug/L	80 - 120
	Chromium	4.000	4.342	109	ug/L	80 - 120
	Copper	8.000	7.740	96.8	ug/L	80 - 120
	Lead	3.000	3.026	101	ug/L	80 - 120
	Nickel	6.000	6.583	110	ug/L	80 - 120
	Silver	2.000	1.888	94.4	ug/L	80 - 120
	Thallium	4.000	4.694	117	ug/L	80 - 120
	Tin	20.00	20.91	105	ug/L	80 - 120
	Zinc	10.00	10.27	103	ug/L	80 - 120
1J28401-CRL2	Arsenic	5.000	5.315	106	ug/L	80 - 120
	Selenium	5.000	5.251	105	ug/L	80 - 120
1J28401-CRL3	Antimony	8.000	9.498	119	ug/L	80 - 120
	Barium	10.00	11.27	113	ug/L	80 - 120
	Beryllium	2.000	2.062	103	ug/L	80 - 120
	Cadmium	2.000	2.268	113	ug/L	80 - 120
	Chromium	4.000	4.541	114	ug/L	80 - 120
	Copper	8.000	7.437	93.0	ug/L	80 - 120
	Nickel	6.000	7.192	120	ug/L	80 - 120
	Silver	2.000	1.954	97.7	ug/L	80 - 120
	Tin	20.00	21.90	109	ug/L	80 - 120
	Zinc	10.00	10.92	109	ug/L	80 - 120
1J28401-CRL4	Arsenic	5.000	5.720	114	ug/L	80 - 120
	Lead	3.000	3.558	119	ug/L	80 - 120
	Selenium	5.000	5.247	105	ug/L	80 - 120
	Thallium	8.000	9.047	113	ug/L	80 - 120

CRDL STANDARD

SW7471A

Laboratory: Empirical Laboratories, LLC

SDG: 1109191

Client: Tetra Tech NUS, Inc. (T010)

Project: Navy Fuel Depot CTO JM46

Instrument ID: ME-FIMS

Calibration: 1284004

Sequence: 1J28407

Lab Sample ID	Analyte	True	Found	%R	Units	QC Limts
1J28407-CRL1	Mercury	0.2000	0.2004	100	ug/L	70 - 130

CRDL STANDARD

SW6010C

Laboratory: Empirical Laboratories, LLC
SDG: 1109191
Client: Tetra Tech NUS, Inc. (T010)
Project: Navy Fuel Depot CTO JM46
Instrument ID: ME-ICP
Calibration: 1320005
Sequence: 1K32008

Lab Sample ID	Analyte	True	Found	%R	Units	QC Limts
1K32008-CRL1	Antimony	8.000	7.478	93.5	ug/L	80 - 120
	Barium	10.00	10.06	101	ug/L	80 - 120
	Beryllium	2.000	2.138	107	ug/L	80 - 120
	Cadmium	2.000	2.123	106	ug/L	80 - 120
	Chromium	4.000	4.199	105	ug/L	80 - 120
	Copper	8.000	8.280	103	ug/L	80 - 120
	Lead	3.000	3.405	114	ug/L	80 - 120
	Nickel	6.000	5.624	93.7	ug/L	80 - 120
	Silver	2.000	1.947	97.4	ug/L	80 - 120
	Thallium	4.000	3.981	99.5	ug/L	80 - 120
	Tin	20.00	19.60	98.0	ug/L	80 - 120
	Zinc	10.00	9.957	99.6	ug/L	80 - 120
1K32008-CRL2	Arsenic	5.000	5.307	106	ug/L	80 - 120
	Selenium	5.000	4.546	90.9	ug/L	80 - 120

BLANKS
SW7470A

Laboratory: Empirical Laboratories, LLC
SDG: 1109191
Client: Tetra Tech NUS, Inc. (T010)
Instrument ID: ME-FIMS
Project: Navy Fuel Depot CTO JM46
Sequence: 1I27214
Calibration: 1272004

Lab Sample ID	Analyte	Found	MDL	MRL	Units	C	Method
1I27214-ICB1	Mercury	-0.001126	0.0800	0.200	ug/L	U	SW7470A
1I27214-CCB1	Mercury	-0.00244	0.0800	0.200	ug/L	U	SW7470A
1I27214-CCB2	Mercury	-0.00729	0.0800	0.200	ug/L	U	SW7470A
1I28010-BLK1	Mercury	-0.00401	0.0800	0.200	ug/L	U	SW7470A
1I27214-CCB3	Mercury	-0.0120	0.0800	0.200	ug/L	U	SW7470A
1I27214-CCB4	Mercury	-0.00472	0.0800	0.200	ug/L	U	SW7470A
1I27214-CCB5	Mercury	-0.00580	0.0800	0.200	ug/L	U	SW7470A

BLANKS
SW6010C

Laboratory: Empirical Laboratories, LLC
SDG: 1109191
Client: Tetra Tech NUS, Inc. (T010)
Instrument ID: ME-ICP
Project: Navy Fuel Depot CTO JM46
Sequence: 1J28401
Calibration: 1284003

Lab Sample ID	Analyte	Found	MDL	MRL	Units	C	Method
1J28401-ICB1	Antimony	-0.1305	5.00	15.0	ug/L	U	SW6010C
	Arsenic	0.1224	3.00	10.0	ug/L	U	SW6010C
	Barium	0.07200	5.00	40.0	ug/L	U	SW6010C
	Beryllium	-0.003810	1.00	5.00	ug/L	U	SW6010C
	Cadmium	0.02022	1.00	5.00	ug/L	U	SW6010C
	Chromium	0.1179	2.00	10.0	ug/L	U	SW6010C
	Copper	-0.5497	4.00	10.0	ug/L	U	SW6010C
	Lead	-0.2534	1.50	3.00	ug/L	U	SW6010C
	Nickel	0.3311	3.00	10.0	ug/L	U	SW6010C
	Selenium	0.1127	3.00	10.0	ug/L	U	SW6010C
	Silver	-0.06913	1.00	10.0	ug/L	U	SW6010C
	Thallium	0.5594	3.00	8.00	ug/L	U	SW6010C
	Tin	0.4182	10.0	30.0	ug/L	U	SW6010C
	Zinc	-0.02425	5.00	20.0	ug/L	U	SW6010C
1J28401-CCB1	Antimony	0.740	5.00	15.0	ug/L	U	SW6010C
	Arsenic	0.496	3.00	10.0	ug/L	U	SW6010C
	Barium	0.197	5.00	40.0	ug/L	U	SW6010C
	Beryllium	-0.00657	1.00	5.00	ug/L	U	SW6010C
	Cadmium	0.179	1.00	5.00	ug/L	U	SW6010C
	Chromium	0.0316	2.00	10.0	ug/L	U	SW6010C
	Copper	-0.324	4.00	10.0	ug/L	U	SW6010C
	Lead	-0.368	1.50	3.00	ug/L	U	SW6010C
	Nickel	0.299	3.00	10.0	ug/L	U	SW6010C
	Selenium	0.517	3.00	10.0	ug/L	U	SW6010C
	Silver	0.142	1.00	10.0	ug/L	U	SW6010C
	Thallium	0.889	3.00	8.00	ug/L	U	SW6010C
	Tin	0.649	10.0	30.0	ug/L	U	SW6010C
	Zinc	0.155	5.00	20.0	ug/L	U	SW6010C
1J28401-CCB6	Antimony	0.106	5.00	15.0	ug/L	U	SW6010C
	Arsenic	0.278	3.00	10.0	ug/L	U	SW6010C
	Barium	0.211	5.00	40.0	ug/L	U	SW6010C
	Beryllium	0.0533	1.00	5.00	ug/L	U	SW6010C
	Cadmium	0.0518	1.00	5.00	ug/L	U	SW6010C

BLANKS
SW6010C

Laboratory: Empirical Laboratories, LLC
SDG: 1109191
Client: Tetra Tech NUS, Inc. (T010)
Instrument ID: ME-ICP
Project: Navy Fuel Depot CTO JM46
Sequence: 1J28401
Calibration: 1284003

Lab Sample ID	Analyte	Found	MDL	MRL	Units	C	Method
1J28401-CCB6	Chromium	0.0402	2.00	10.0	ug/L	U	SW6010C
	Copper	-0.847	4.00	10.0	ug/L	U	SW6010C
	Lead	0.291	1.50	3.00	ug/L	U	SW6010C
	Nickel	0.701	3.00	10.0	ug/L	U	SW6010C
	Selenium	0.210	3.00	10.0	ug/L	U	SW6010C
	Silver	0.0836	1.00	10.0	ug/L	U	SW6010C
	Thallium	1.17	3.00	8.00	ug/L	U	SW6010C
	Tin	0.386	10.0	30.0	ug/L	U	SW6010C
	Zinc	0.0921	5.00	20.0	ug/L	U	SW6010C
1J06014-BLK1	Antimony	-0.160	1.00	2.00	mg/Kg wet	U	SW6010C
	Arsenic	-0.140	0.600	2.00	mg/Kg wet	U	SW6010C
	Barium	0.0497	1.00	8.00	mg/Kg wet	U	SW6010C
	Beryllium	0.00466	0.200	1.00	mg/Kg wet	U	SW6010C
	Cadmium	0.0189	0.200	1.00	mg/Kg wet	U	SW6010C
	Chromium	0.0670	0.400	2.00	mg/Kg wet	U	SW6010C
	Copper	-0.209	0.800	2.00	mg/Kg wet	U	SW6010C
	Lead	0.00689	0.300	1.00	mg/Kg wet	U	SW6010C
	Nickel	0.186	0.600	2.00	mg/Kg wet	U	SW6010C
	Selenium	0.0567	0.600	2.00	mg/Kg wet	U	SW6010C
	Silver	0.00136	0.200	2.00	mg/Kg wet	U	SW6010C
	Thallium	-0.0659	0.600	1.60	mg/Kg wet	U	SW6010C
	Tin	3.32	2.00	40.0	mg/Kg wet	I	SW6010C
	Zinc	0.122	1.00	4.00	mg/Kg wet	U	SW6010C
1J28401-CCB7	Antimony	0.861	5.00	15.0	ug/L	U	SW6010C
	Arsenic	-0.402	3.00	10.0	ug/L	U	SW6010C
	Barium	0.377	5.00	40.0	ug/L	U	SW6010C
	Beryllium	0.0274	1.00	5.00	ug/L	U	SW6010C
	Cadmium	0.260	1.00	5.00	ug/L	U	SW6010C
	Chromium	0.129	2.00	10.0	ug/L	U	SW6010C
	Copper	-1.17	4.00	10.0	ug/L	U	SW6010C
	Lead	0.810	1.50	3.00	ug/L	U	SW6010C
	Nickel	1.11	3.00	10.0	ug/L	U	SW6010C
	Selenium	0.279	3.00	10.0	ug/L	U	SW6010C

BLANKS
SW6010C

Laboratory: Empirical Laboratories, LLC
SDG: 1109191
Client: Tetra Tech NUS, Inc. (T010)
Instrument ID: ME-ICP
Project: Navy Fuel Depot CTO JM46
Sequence: 1J28401
Calibration: 1284003

Lab Sample ID	Analyte	Found	MDL	MRL	Units	C	Method
1J28401-CCB7	Silver	-0.0884	1.00	10.0	ug/L	U	SW6010C
	Thallium	1.17	3.00	8.00	ug/L	U	SW6010C
	Tin	0.737	10.0	30.0	ug/L	U	SW6010C
	Zinc	2.06	5.00	20.0	ug/L	U	SW6010C
1J28401-CCB8	Antimony	-0.492	5.00	15.0	ug/L	U	SW6010C
	Arsenic	-0.159	3.00	10.0	ug/L	U	SW6010C
	Barium	0.229	5.00	40.0	ug/L	U	SW6010C
	Beryllium	0.0550	1.00	5.00	ug/L	U	SW6010C
	Cadmium	0.156	1.00	5.00	ug/L	U	SW6010C
	Chromium	0.180	2.00	10.0	ug/L	U	SW6010C
	Copper	-1.03	4.00	10.0	ug/L	U	SW6010C
	Lead	0.125	1.50	3.00	ug/L	U	SW6010C
	Nickel	0.926	3.00	10.0	ug/L	U	SW6010C
	Selenium	0.300	3.00	10.0	ug/L	U	SW6010C
	Silver	0.131	1.00	10.0	ug/L	U	SW6010C
	Thallium	0.225	3.00	8.00	ug/L	U	SW6010C
	Tin	0.590	10.0	30.0	ug/L	U	SW6010C
	Zinc	0.132	5.00	20.0	ug/L	U	SW6010C
1J28401-CCB9	Antimony	0.448	5.00	15.0	ug/L	U	SW6010C
	Arsenic	-1.02	3.00	10.0	ug/L	U	SW6010C
	Barium	0.286	5.00	40.0	ug/L	U	SW6010C
	Beryllium	0.0154	1.00	5.00	ug/L	U	SW6010C
	Cadmium	0.196	1.00	5.00	ug/L	U	SW6010C
	Chromium	0.0470	2.00	10.0	ug/L	U	SW6010C
	Copper	-1.53	4.00	10.0	ug/L	U	SW6010C
	Lead	0.745	1.50	3.00	ug/L	U	SW6010C
	Nickel	1.14	3.00	10.0	ug/L	U	SW6010C
	Selenium	-0.420	3.00	10.0	ug/L	U	SW6010C
	Silver	0.0704	1.00	10.0	ug/L	U	SW6010C
	Thallium	0.533	3.00	8.00	ug/L	U	SW6010C
	Tin	0.632	10.0	30.0	ug/L	U	SW6010C
	Zinc	0.282	5.00	20.0	ug/L	U	SW6010C
1J28401-CCBA	Antimony	0.683	5.00	15.0	ug/L	U	SW6010C

BLANKS
SW6010C

Laboratory: Empirical Laboratories, LLC
SDG: 1109191
Client: Tetra Tech NUS, Inc. (T010)
Instrument ID: ME-ICP
Project: Navy Fuel Depot CTO JM46
Sequence: 1J28401
Calibration: 1284003

Lab Sample ID	Analyte	Found	MDL	MRL	Units	C	Method
1J28401-CCBA	Arsenic	0.757	3.00	10.0	ug/L	U	SW6010C
	Barium	-0.00970	5.00	40.0	ug/L	U	SW6010C
	Beryllium	-0.0381	1.00	5.00	ug/L	U	SW6010C
	Cadmium	0.0130	1.00	5.00	ug/L	U	SW6010C
	Chromium	-0.0372	2.00	10.0	ug/L	U	SW6010C
	Copper	-0.327	4.00	10.0	ug/L	U	SW6010C
	Lead	-0.402	1.50	3.00	ug/L	U	SW6010C
	Nickel	0.355	3.00	10.0	ug/L	U	SW6010C
	Selenium	-0.132	3.00	10.0	ug/L	U	SW6010C
	Silver	0.230	1.00	10.0	ug/L	U	SW6010C
	Thallium	1.29	3.00	8.00	ug/L	U	SW6010C
	Tin	0.276	10.0	30.0	ug/L	U	SW6010C
	Zinc	0.0274	5.00	20.0	ug/L	U	SW6010C
1J28401-CCBB	Antimony	0.788	5.00	15.0	ug/L	U	SW6010C
	Arsenic	-0.468	3.00	10.0	ug/L	U	SW6010C
	Barium	0.0671	5.00	40.0	ug/L	U	SW6010C
	Beryllium	-0.0237	1.00	5.00	ug/L	U	SW6010C
	Cadmium	0.0251	1.00	5.00	ug/L	U	SW6010C
	Chromium	0.0275	2.00	10.0	ug/L	U	SW6010C
	Copper	-0.537	4.00	10.0	ug/L	U	SW6010C
	Lead	-0.447	1.50	3.00	ug/L	U	SW6010C
	Nickel	0.199	3.00	10.0	ug/L	U	SW6010C
	Selenium	0.246	3.00	10.0	ug/L	U	SW6010C
	Silver	-0.214	1.00	10.0	ug/L	U	SW6010C
	Thallium	1.06	3.00	8.00	ug/L	U	SW6010C
	Tin	0.553	10.0	30.0	ug/L	U	SW6010C
	Zinc	-0.0172	5.00	20.0	ug/L	U	SW6010C

BLANKS
SW7471A

Laboratory: Empirical Laboratories, LLC
SDG: 1109191
Client: Tetra Tech NUS, Inc. (T010)
Instrument ID: ME-FIMS
Project: Navy Fuel Depot CTO JM46
Sequence: 1J28407
Calibration: 1284004

Lab Sample ID	Analyte	Found	MDL	MRL	Units	C	Method
1J28407-ICB1	Mercury	0.02943	0.0780	0.198	ug/L	U	SW7471A
1J07003-BLK1	Mercury	0.00429	0.0130	0.0330	mg/Kg wet	U	SW7471A
1J28407-CCB1	Mercury	0.0269	0.0780	0.198	ug/L	U	SW7471A
1J28407-CCB2	Mercury	0.0306	0.0780	0.198	ug/L	U	SW7471A
1J07004-BLK1	Mercury	0.00459	0.0130	0.0330	mg/Kg wet	U	SW7471A
1J28407-CCB3	Mercury	0.0298	0.0780	0.198	ug/L	U	SW7471A
1J28407-CCB4	Mercury	0.0342	0.0780	0.198	ug/L	U	SW7471A

BLANKS
SW6010C

Laboratory: Empirical Laboratories, LLC
SDG: 1109191
Client: Tetra Tech NUS, Inc. (T010)
Instrument ID: ME-ICP
Project: Navy Fuel Depot CTO JM46
Sequence: 1K32008
Calibration: 1320005

Lab Sample ID	Analyte	Found	MDL	MRL	Units	C	Method
1K32008-ICB1	Antimony	-0.1574	5.00	15.0	ug/L	U	SW6010C
	Arsenic	0.2830	3.00	6.00	ug/L	U	SW6010C
	Barium	0.0004000	5.00	40.0	ug/L	U	SW6010C
	Beryllium	-0.01313	1.00	5.00	ug/L	U	SW6010C
	Cadmium	-0.01561	1.00	5.00	ug/L	U	SW6010C
	Chromium	-0.006320	2.00	5.00	ug/L	U	SW6010C
	Copper	0.3863	5.00	10.0	ug/L	U	SW6010C
	Lead	0.1431	1.50	3.00	ug/L	U	SW6010C
	Nickel	-0.3100	3.00	10.0	ug/L	U	SW6010C
	Selenium	0.2110	3.00	6.00	ug/L	U	SW6010C
	Silver	-0.07824	1.00	5.00	ug/L	U	SW6010C
	Thallium	0.3219	3.00	8.00	ug/L	U	SW6010C
	Tin	-0.2293	50.0	100	ug/L	U	SW6010C
	Zinc	-0.001210	5.00	20.0	ug/L	U	SW6010C
1K32008-CCB1	Antimony	0.0436	5.00	15.0	ug/L	U	SW6010C
	Arsenic	1.62	3.00	6.00	ug/L	U	SW6010C
	Barium	0.163	5.00	40.0	ug/L	U	SW6010C
	Beryllium	0.0359	1.00	5.00	ug/L	U	SW6010C
	Cadmium	0.172	1.00	5.00	ug/L	U	SW6010C
	Chromium	0.0955	2.00	5.00	ug/L	U	SW6010C
	Copper	0.975	5.00	10.0	ug/L	U	SW6010C
	Lead	0.410	1.50	3.00	ug/L	U	SW6010C
	Nickel	-0.382	3.00	10.0	ug/L	U	SW6010C
	Selenium	-0.0155	3.00	6.00	ug/L	U	SW6010C
	Silver	-0.0783	1.00	5.00	ug/L	U	SW6010C
	Thallium	0.329	3.00	8.00	ug/L	U	SW6010C
	Tin	0.229	50.0	100	ug/L	U	SW6010C
	Zinc	0.126	5.00	20.0	ug/L	U	SW6010C
1K32008-CCB6	Antimony	0.138	5.00	15.0	ug/L	U	SW6010C
	Arsenic	0.944	3.00	6.00	ug/L	U	SW6010C
	Barium	0.191	5.00	40.0	ug/L	U	SW6010C
	Beryllium	0.0661	1.00	5.00	ug/L	U	SW6010C
	Cadmium	0.169	1.00	5.00	ug/L	U	SW6010C

BLANKS
SW6010C

Laboratory: Empirical Laboratories, LLC
SDG: 1109191
Client: Tetra Tech NUS, Inc. (T010)
Instrument ID: ME-ICP
Project: Navy Fuel Depot CTO JM46
Sequence: 1K32008
Calibration: 1320005

Lab Sample ID	Analyte	Found	MDL	MRL	Units	C	Method
1K32008-CCB6	Chromium	0.184	2.00	5.00	ug/L	U	SW6010C
	Copper	-0.503	5.00	10.0	ug/L	U	SW6010C
	Lead	0.484	1.50	3.00	ug/L	U	SW6010C
	Nickel	0.401	3.00	10.0	ug/L	U	SW6010C
	Selenium	0.758	3.00	6.00	ug/L	U	SW6010C
	Silver	-0.267	1.00	5.00	ug/L	U	SW6010C
	Thallium	0.412	3.00	8.00	ug/L	U	SW6010C
	Tin	0.170	50.0	100	ug/L	U	SW6010C
	Zinc	0.158	5.00	20.0	ug/L	U	SW6010C
1K08018-BLK1	Antimony	-0.215	1.25	3.75	ug/L	U	SW6010C
	Arsenic	0.255	0.750	1.50	ug/L	U	SW6010C
	Barium	0.00298	1.25	10.0	ug/L	U	SW6010C
	Beryllium	0.0285	0.250	1.25	ug/L	U	SW6010C
	Cadmium	0.0178	0.250	1.25	ug/L	U	SW6010C
	Chromium	0.309	0.500	1.25	ug/L	U	SW6010C
	Copper	-0.0241	1.25	2.50	ug/L	U	SW6010C
	Lead	0.0185	0.375	0.750	ug/L	U	SW6010C
	Nickel	0.241	0.750	2.50	ug/L	U	SW6010C
	Selenium	-0.0778	0.750	1.50	ug/L	U	SW6010C
	Silver	-0.0271	0.250	1.25	ug/L	U	SW6010C
	Thallium	0.0208	0.750	2.00	ug/L	U	SW6010C
	Tin	0.0981	12.5	25.0	ug/L	U	SW6010C
	Zinc	0.270	1.25	5.00	ug/L	U	SW6010C
1K32008-CCB7	Antimony	-0.168	5.00	15.0	ug/L	U	SW6010C
	Arsenic	0.589	3.00	6.00	ug/L	U	SW6010C
	Barium	0.248	5.00	40.0	ug/L	U	SW6010C
	Beryllium	0.163	1.00	5.00	ug/L	U	SW6010C
	Cadmium	0.223	1.00	5.00	ug/L	U	SW6010C
	Chromium	0.209	2.00	5.00	ug/L	U	SW6010C
	Copper	-0.463	5.00	10.0	ug/L	U	SW6010C
	Lead	0.812	1.50	3.00	ug/L	U	SW6010C
	Nickel	0.369	3.00	10.0	ug/L	U	SW6010C
	Selenium	-0.484	3.00	6.00	ug/L	U	SW6010C

BLANKS
SW6010C

Laboratory: Empirical Laboratories, LLC
SDG: 1109191
Client: Tetra Tech NUS, Inc. (T010)
Instrument ID: ME-ICP
Project: Navy Fuel Depot CTO JM46
Sequence: 1K32008
Calibration: 1320005

Lab Sample ID	Analyte	Found	MDL	MRL	Units	C	Method
1K32008-CCB7	Silver	-0.151	1.00	5.00	ug/L	U	SW6010C
	Thallium	0.319	3.00	8.00	ug/L	U	SW6010C
	Tin	0.327	50.0	100	ug/L	U	SW6010C
	Zinc	0.163	5.00	20.0	ug/L	U	SW6010C

ICP INTERFERENCE CHECK SAMPLE

SW6010C

Laboratory: Empirical Laboratories, LLC
SDG: 1109191
Client: Tetra Tech NUS, Inc. (T010)
Project: Navy Fuel Depot CTO JM46
Instrument ID: ME-ICP
Calibration: 1284003
Sequence: 1J28401

Lab Sample ID	Analyte	True	Found	%R	Units
1J28401-IFA1	Antimony		0.89		ug/L
	Arsenic		-0.36		ug/L
	Barium		1.28		ug/L
	Beryllium		0.01		ug/L
	Cadmium		1.54		ug/L
	Chromium		-0.91		ug/L
	Copper		-1.21		ug/L
	Lead		0.51		ug/L
	Nickel		-3.53		ug/L
	Selenium		-2.25		ug/L
	Silver		-0.18		ug/L
	Thallium		0.60		ug/L
	Tin		-1.45		ug/L
	Zinc		-8.72		ug/L
1J28401-IFB1	Antimony	600.0	647.15	108	ug/L
	Arsenic	100.0	113.40	113	ug/L
	Barium	500.0	518.06	104	ug/L
	Beryllium	500.0	503.51	101	ug/L
	Cadmium	1000	1,056.80	106	ug/L
	Chromium	500.0	480.44	96.1	ug/L
	Copper	500.0	514.22	103	ug/L
	Lead	50.00	48.67	97.3	ug/L
	Nickel	1000	976.16	97.6	ug/L
	Selenium	50.00	53.10	106	ug/L
	Silver	200.0	204.56	102	ug/L
	Thallium	100.0	93.62	93.6	ug/L
	Tin		-1.21		ug/L
	Zinc	1000	1,008.20	101	ug/L

ICP INTERFERENCE CHECK SAMPLE

SW6010C

Laboratory: Empirical Laboratories, LLC
SDG: 1109191
Client: Tetra Tech NUS, Inc. (T010)
Project: Navy Fuel Depot CTO JM46
Instrument ID: ME-ICP
Calibration: 1320005
Sequence: 1K32008

Lab Sample ID	Analyte	True	Found	%R	Units
1K32008-IFA1	Antimony		-0.91		ug/L
	Arsenic		-1.12		ug/L
	Barium		1.56		ug/L
	Beryllium		0.05		ug/L
	Cadmium		1.36		ug/L
	Chromium		-0.86		ug/L
	Copper		0.03		ug/L
	Lead		1.55		ug/L
	Nickel		-4.30		ug/L
	Selenium		0.49		ug/L
	Silver		-0.31		ug/L
	Thallium		-1.80		ug/L
	Tin		-2.02		ug/L
	Zinc		-8.36		ug/L
1K32008-IFB1	Antimony	600.0	634.40	106	ug/L
	Arsenic	100.0	110.42	110	ug/L
	Barium	500.0	513.78	103	ug/L
	Beryllium	500.0	510.57	102	ug/L
	Cadmium	1000	1,054.60	105	ug/L
	Chromium	500.0	473.02	94.6	ug/L
	Copper	500.0	509.25	102	ug/L
	Lead	50.00	47.62	95.2	ug/L
	Nickel	1000	974.45	97.4	ug/L
	Selenium	50.00	51.50	103	ug/L
	Silver	200.0	207.65	104	ug/L
	Thallium	100.0	93.17	93.2	ug/L
	Tin		-2.01		ug/L
	Zinc	1000	991.93	99.2	ug/L

MATRIX SPIKE / MATRIX SPIKE DUPLICATE RECOVERY

SW6010C

FLC-4-SS01-0624-092211

Laboratory: Empirical Laboratories, LLC

SDG: 1109191

Client: Tetra Tech NUS, Inc. (T010)

Project: Navy Fuel Depot CTO JM46

Matrix: Solid

Batch: 1J06014

% Solids: 96.12

Source Sample Name: **1109191-02**

ANALYTE	SPIKE ADDED (mg/Kg dry)	SAMPLE CONCENTRATION (mg/Kg dry)	MS CONCENTRATION (mg/Kg dry)	MS % REC.	Q	QC LIMITS REC.
Antimony	52.54	ND	57.14	109		80 - 120
Arsenic	52.54	ND	59.78	114		80 - 120
Barium	420.4	11.34	482.3	112		80 - 120
Beryllium	10.51	ND	11.55	110		80 - 120
Cadmium	26.27	ND	30.12	115		80 - 120
Chromium	42.04	1.824	47.83	109		80 - 120
Copper	52.54	0.9313	59.64	112		80 - 120
Lead	52.54	1.980	60.63	112		80 - 120
Nickel	105.1	1.504	115.9	109		80 - 120
Selenium	52.54	ND	57.83	110		80 - 120
Silver	52.54	ND	54.37	103		80 - 120
Thallium	52.54	ND	53.61	102		80 - 120
Tin	210.2	3.469	241.9	113		80 - 120
Zinc	105.1	4.662	123.9	113		80 - 120

MATRIX SPIKE / MATRIX SPIKE DUPLICATE RECOVERY

SW6010C

FLC-4-SS01-0624-092211

Laboratory: Empirical Laboratories, LLC

SDG: 1109191

Client: Tetra Tech NUS, Inc. (T010)

Project: Navy Fuel Depot CTO JM46

Matrix: Solid

Batch: 1J06014

% Solids: 96.12

Source Sample Name: **1109191-02**

ANALYTE	SPIKE ADDED (mg/Kg dry)	MSD CONCENTRATION (mg/Kg dry)	MSD % REC. #	% RPD	Q	QC LIMITS RPD	QC LIMITS REC.
Antimony	51.00	50.83	99.7	11.7		20	80 - 120
Arsenic	51.00	53.34	105	11.4		20	80 - 120
Barium	408.0	437.0	104	9.86		20	80 - 120
Beryllium	10.20	10.24	100	12.0		20	80 - 120
Cadmium	25.50	27.35	107	9.61		20	80 - 120
Chromium	40.80	43.04	101	10.5		20	80 - 120
Copper	51.00	54.39	105	9.21		20	80 - 120
Lead	51.00	55.49	105	8.84		20	80 - 120
Nickel	102.0	104.9	101	9.99		20	80 - 120
Selenium	51.00	52.80	104	9.09		20	80 - 120
Silver	51.00	49.17	96.4	10.0		20	80 - 120
Thallium	51.00	49.02	96.1	8.94		20	80 - 120
Tin	204.0	219.7	106	9.60		20	80 - 120
Zinc	102.0	112.8	106	9.37		20	80 - 120

MATRIX SPIKE / MATRIX SPIKE DUPLICATE RECOVERY

SW7471A

FLC-4-SS01-0624-092211

Laboratory: Empirical Laboratories, LLC

SDG: 1109191

Client: Tetra Tech NUS, Inc. (T010)

Project: Navy Fuel Depot CTO JM46

Matrix: Solid

Batch: 1J07004

% Solids: 96.12

Source Sample Name: **1109191-02**

ANALYTE	SPIKE ADDED (mg/Kg dry)	SAMPLE CONCENTRATION (mg/Kg dry)	MS CONCENTRATION (mg/Kg dry)	MS % REC.	Q	QC LIMITS REC.
Mercury	0.3251	ND	0.3388	104		80 - 120

ANALYTE	SPIKE ADDED (mg/Kg dry)	MSD CONCENTRATION (mg/Kg dry)	MSD % REC. #	% RPD	Q	QC LIMITS RPD	QC LIMITS REC.
Mercury	0.3468	0.3736	108	9.75		20	80 - 120

POST DIGEST SPIKE SAMPLE RECOVERY

SW6010C

FLC-4-SS01-0624-092211

Laboratory: Empirical Laboratories, LLC
SDG: 1109191
Client: Tetra Tech NUS, Inc. (T010)
Project: Navy Fuel Depot CTO JM46
Matrix: Solid
Laboratory ID: 1J06014-PS1
Batch: 1J06014
Lab Source ID: 1109191-02
Preparation: MET_3050B
Initial/Final: 0.99 g / 200 mL

Analyte	Spike Sample Result (SSR) (ug/L)	Sample Result (SR) (ug/L)	Spike Added (SA) (ug/L)	%R	Control Limit %R
Antimony	300.0	ND	250.0	120	80 - 120
Arsenic	285.4	ND	250.0	113	80 - 120
Barium	2292	53.95	2000	112	80 - 120
Beryllium	53.44	ND	50.00	105	80 - 120
Cadmium	143.3	ND	125.0	114	80 - 120
Chromium	220.1	8.680	200.0	106	80 - 120
Copper	282.6	4.431	250.0	111	80 - 120
Lead	288.4	9.423	250.0	112	80 - 120
Nickel	546.1	7.154	500.0	108	80 - 120
Selenium	277.6	ND	250.0	111	80 - 120
Silver	257.2	ND	250.0	103	80 - 120
Thallium	258.1	ND	250.0	102	80 - 120
Tin	1172	16.50	1000	116	80 - 120
Zinc	585.9	22.18	500.0	113	80 - 120

LCS / LCS DUPLICATE RECOVERY

SW7470A

Laboratory:	Empirical Laboratories, LLC	SDG:	1109191
Client:	Tetra Tech NUS, Inc. (T010)	Project:	Navy Fuel Depot CTO JM46
Matrix:	Water		
Batch:	1I28010	Laboratory ID:	1I28010-BS1
Preparation:	pMercury-W SW 7470A	Initial/Final:	30 mL / 30 mL

ANALYTE	SPIKE ADDED (ug/L)	LCS CONCENTRATION (ug/L)	LCS % REC.	QC LIMITS REC.
Mercury	2.000	2.020	101	80 - 120

LCS / LCS DUPLICATE RECOVERY

SW6010C

Laboratory:	Empirical Laboratories, LLC	SDG:	1109191
Client:	Tetra Tech NUS, Inc. (T010)	Project:	Navy Fuel Depot CTO JM46
Matrix:	Solid		
Batch:	1J06014	Laboratory ID:	1J06014-BS1
Preparation:	MET_3050B	Initial/Final:	1 g / 200 mL

ANALYTE	SPIKE ADDED (mg/Kg wet)	LCS CONCENTRATION (mg/Kg wet)	LCS % REC.	QC LIMITS REC.
Antimony	50.00	55.94	112	80 - 120
Arsenic	50.00	51.19	102	80 - 120
Barium	400.0	434.7	109	80 - 120
Beryllium	10.00	10.27	103	80 - 120
Cadmium	25.00	27.41	110	80 - 120
Chromium	40.00	42.94	107	80 - 120
Copper	50.00	55.08	110	80 - 120
Lead	50.00	55.06	110	80 - 120
Nickel	100.0	107.0	107	80 - 120
Selenium	50.00	50.78	102	80 - 120
Silver	50.00	49.18	98.4	80 - 120
Thallium	50.00	50.97	102	80 - 120
Tin	200.0	223.6	112	80 - 120
Zinc	100.0	110.6	111	80 - 120

LCS / LCS DUPLICATE RECOVERY

SW7471A

Laboratory:	Empirical Laboratories, LLC	SDG:	1109191
Client:	Tetra Tech NUS, Inc. (T010)	Project:	Navy Fuel Depot CTO JM46
Matrix:	Solid		
Batch:	1J07003	Laboratory ID:	1J07003-BS1
Preparation:	MET_HG_S	Initial/Final:	0.3 g / 50 mL

ANALYTE	SPIKE ADDED (mg/Kg wet)	LCS CONCENTRATION (mg/Kg wet)	LCS % REC.	QC LIMITS REC.
Mercury	0.3333	0.3474	104	80 - 120

LCS / LCS DUPLICATE RECOVERY

SW7471A

Laboratory:	Empirical Laboratories, LLC	SDG:	1109191
Client:	Tetra Tech NUS, Inc. (T010)	Project:	Navy Fuel Depot CTO JM46
Matrix:	Solid		
Batch:	1J07004	Laboratory ID:	1J07004-BS1
Preparation:	MET_HG_S	Initial/Final:	0.3 g / 50 mL

ANALYTE	SPIKE ADDED (mg/Kg wet)	LCS CONCENTRATION (mg/Kg wet)	LCS % REC.	QC LIMITS REC.
Mercury	0.3333	0.3344	100	80 - 120

LCS / LCS DUPLICATE RECOVERY

SW6010C

Laboratory:	Empirical Laboratories, LLC	SDG:	1109191
Client:	Tetra Tech NUS, Inc. (T010)	Project:	Navy Fuel Depot CTO JM46
Matrix:	Water		
Batch:	1K08018	Laboratory ID:	1K08018-BS1
Preparation:	MET_3005A_LOW	Initial/Final:	100 mL / 25 mL

ANALYTE	SPIKE ADDED (ug/L)	LCS CONCENTRATION (ug/L)	LCS % REC.	QC LIMITS REC.
Antimony	5.000	5.099	102	80 - 120
Arsenic	5.000	4.869	97.4	80 - 120
Barium	40.00	40.00	100	80 - 120
Beryllium	1.000	1.037	104	80 - 120
Cadmium	2.500	2.650	106	80 - 120
Chromium	4.000	4.092	102	80 - 120
Copper	5.000	5.304	106	80 - 120
Lead	5.000	5.260	105	80 - 120
Nickel	10.00	10.05	101	80 - 120
Selenium	5.000	4.802	96.0	80 - 120
Silver	5.000	4.851	97.0	80 - 120
Thallium	5.000	4.950	99.0	80 - 120
Tin	20.00	19.93	99.7	80 - 120
Zinc	10.00	10.31	103	80 - 120

SERIAL DILUTION

SW6010C

FLC-4-SS01-0624-092211

Laboratory: Empirical Laboratories, LLC
SDG: 1109191
Client: Tetra Tech NUS, Inc. (T010)
Project: Navy Fuel Depot CTO JM46
Matrix: Solid
Laboratory ID: 1J06014-DUP1
Sequence: 1J28401
Lab Source ID: 1109191-02
Preparation: MET_3050B
Initial/Final: 0.99 / 200

Analyte	Initial Sample Result (I) ug/L	Serial Dilution Result (S) ug/L	% Difference	Q	Method	QC Limits % Difference
Antimony	ND	ND			SW6010C	10.00
Arsenic	ND	ND			SW6010C	10.00
Barium	53.949	56.295	4.35		SW6010C	10.00
Beryllium	ND	ND			SW6010C	10.00
Cadmium	ND	ND			SW6010C	10.00
Chromium	8.6801	ND			SW6010C	10.00
Copper	4.4308	ND			SW6010C	10.00
Lead	9.4226	9.6485	2.4		SW6010C	10.00
Nickel	7.1544	ND			SW6010C	10.00
Selenium	ND	ND			SW6010C	10.00
Silver	ND	ND			SW6010C	10.00
Thallium	ND	ND			SW6010C	10.00
Tin	16.504	ND			SW6010C	10.00
Zinc	22.18	ND			SW6010C	10.00

USEPA - CLP

10A-IN
ICP-AES INTERELEMENT CORRECTION FACTORS (ANNUALLY)

Lab Name: Empirical Laboratories, LLC Contract: Tetra Tech NUS, Inc. (T010)

SDG No.: 1109191

ICP-AES Instrument ID: Thermo Jarrell Ashe ICAP Date: 9/11/2009

Analyte	Wave-length (nm)	Interelement Correction Factors for:				
		Al	Ca	Fe	Mg	Ag
Antimony	206.8	0.0000000	0.0000000	0.0000300	0.0000000	0.0000000
Arsenic	189.0	0.0000120	0.0000000	0.0000020	0.0000000	0.0000000
Barium	233.5	0.0000000	0.0000000	0.0000090	0.0000000	0.0000000
Beryllium	313.0	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000
Cadmium	228.8	0.0000000	0.0000000	-0.0000050	0.0021850	0.0000000
Chromium	267.7	0.0000000	0.0000000	0.0000040	0.0056080	0.0000000
Copper	224.7	0.0000000	0.0000000	0.0002930	0.0000000	0.0000000
Lead	220.3	0.0002980	0.0000000	0.0000080	0.0003250	0.0000000
Nickel	231.6	0.0000000	0.0000000	-0.0000040	0.0000000	0.0000000
Selenium	196.0	0.0000000	0.0000000	0.0000200	0.0000000	0.0000000
Silver	328.0	0.0000000	0.0000000	0.0000020	0.0000000	0.0000000
Thallium	190.8	0.0000000	0.0000000	0.0000080	0.0000000	0.0000000
Tin	189.9	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000
Zinc	206.2	0.0000000	0.0000000	0.0000000	0.0013660	0.0000000

Comments:

FORM XA-IN

USEPA - CLP

10A-IN
ICP-AES INTERELEMENT CORRECTION FACTORS (ANNUALLY)

Lab Name: Empirical Laboratories, LLC Contract: Tetra Tech NUS, Inc. (T010)

SDG No.: 1109191

ICP-AES Instrument ID: Thermo Jarrell Ashe ICAP Date: 9/11/2009

Analyte	Wave-length (nm)	Interelement Correction Factors for: As	B	Ba	Be	Cd
Antimony	206.8	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000
Arsenic	189.0	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000
Barium	233.5	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000
Beryllium	313.0	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000
Cadmium	228.8	0.0045780	0.0000000	0.0000000	0.0000000	0.0000000
Chromium	267.7	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000
Copper	224.7	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000
Lead	220.3	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000
Nickel	231.6	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000
Selenium	196.0	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000
Silver	328.0	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000
Thallium	190.8	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000
Tin	189.9	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000
Zinc	206.2	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000

Comments:

FORM XA-IN

USEPA - CLP

10A-IN
ICP-AES INTERELEMENT CORRECTION FACTORS (ANNUALLY)

Lab Name: Empirical Laboratories, LLC Contract: Tetra Tech NUS, Inc. (T010)

SDG No.: 1109191

ICP-AES Instrument ID: Thermo Jarrell Ashe ICAP Date: 9/11/2009

Analyte	Wave-length (nm)	Interelement Correction Factors for:				
		Co	Cr	Cu	K	Mn
Antimony	206.8	0.0000000	0.0060190	0.0000000	0.0000000	0.0000000
Arsenic	189.0	0.0000000	-0.0126310	0.0000000	0.0000000	0.0000000
Barium	233.5	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000
Beryllium	313.0	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000
Cadmium	228.8	-0.0025320	0.0000000	0.0000000	0.0000000	0.0000000
Chromium	267.7	0.0000000	0.0000000	0.0000000	0.0000000	0.0002500
Copper	224.7	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000
Lead	220.3	0.0000000	0.0000000	0.0022600	0.0000000	0.0000990
Nickel	231.6	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000
Selenium	196.0	0.0000000	0.0000000	0.0000000	0.0000000	0.0009430
Silver	328.0	0.0000000	0.0000000	0.0000000	0.0000000	0.0000650
Thallium	190.8	0.0040870	0.0002110	0.0000000	0.0000000	0.0014070
Tin	189.9	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000
Zinc	206.2	0.0000000	-0.0003020	0.0000000	0.0000000	0.0000000

Comments:

FORM XA-IN

USEPA - CLP

10A-IN
ICP-AES INTERELEMENT CORRECTION FACTORS (ANNUALLY)

Lab Name: Empirical Laboratories, LLC Contract: Tetra Tech NUS, Inc. (T010)

SDG No.: 1109191

ICP-AES Instrument ID: Thermo Jarrell Ashe ICAP Date: 9/11/2009

Analyte	Wave-length (nm)	Interelement Correction Factors for: Mo	Na	Ni	Pb	Sb
Antimony	206.8	-0.0012790	0.0000000	0.0000000	0.0000000	0.0000000
Arsenic	189.0	-0.0001200	0.0000000	0.0000000	0.0000000	0.0000000
Barium	233.5	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000
Beryllium	313.0	-0.0000250	0.0000000	0.0000000	0.0000000	0.0000000
Cadmium	228.8	0.0000000	0.0000000	-0.0000880	0.0000000	0.0000000
Chromium	267.7	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000
Copper	224.7	0.0018210	0.0000000	-0.0088250	0.0030200	0.0000000
Lead	220.3	-0.0026440	0.0000000	0.0000000	0.0000000	0.0000000
Nickel	231.6	-0.0000220	0.0000000	0.0000000	0.0000000	0.0000000
Selenium	196.0	0.0000830	0.0000000	0.0000000	0.0000000	0.0000000
Silver	328.0	-0.0000590	0.0000000	0.0000000	0.0000000	0.0000000
Thallium	190.8	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000
Tin	189.9	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000
Zinc	206.2	0.0001730	0.0000000	0.0000000	0.0000000	0.0000000

Comments:

FORM XA-IN

USEPA - CLP

10A-IN
ICP-AES INTERELEMENT CORRECTION FACTORS (ANNUALLY)

Lab Name: Empirical Laboratories, LLC Contract: Tetra Tech NUS, Inc. (T010)

SDG No.: 1109191

ICP-AES Instrument ID: Thermo Jarrell Ashe ICAP Date: 9/11/2009

Analyte	Wave-length (nm)	Interelement Correction Factors for:				
		Se	Sn	Ti	Tl	V
Antimony	206.8	0.0000000	0.0000000	0.0004790	0.0000000	-0.0017000
Arsenic	189.0	0.0000000	0.0000000	0.0000750	0.0000000	0.0000000
Barium	233.5	0.0000000	0.0000000	0.0000000	0.0000000	-0.0017020
Beryllium	313.0	0.0000000	0.0000000	0.0000000	0.0000000	0.0001050
Cadmium	228.8	0.0000000	0.0000000	0.0000000	0.0000000	0.0000560
Chromium	267.7	0.0000000	0.0000000	0.0000000	0.0000000	-0.0000700
Copper	224.7	0.0000000	0.0000000	0.0002300	0.0000000	0.0000000
Lead	220.3	0.0000000	0.0000000	0.0000000	0.0000000	-0.0000360
Nickel	231.6	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000
Selenium	196.0	0.0000000	0.0000000	0.0000220	0.0000000	0.0000540
Silver	328.0	0.0000000	0.0000000	0.0000000	0.0000000	-0.0064060
Thallium	190.8	0.0000000	0.0000000	-0.0012830	0.0000000	0.0004040
Tin	189.9	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000
Zinc	206.2	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000

Comments:

FORM XA-IN

USEPA - CLP

10A-IN
ICP-AES INTERELEMENT CORRECTION FACTORS (ANNUALLY)

Lab Name: Empirical Laboratories, LLC Contract: Tetra Tech NUS, Inc. (T010)

SDG No.: 1109191

ICP-AES Instrument ID: Thermo Jarrell Ashe ICAP Date: 9/11/2009

Analyte	Wave-length (nm)	Interelement Correction Factors for: Zn				
Antimony	206.8	0.0000000				
Arsenic	189.0	0.0000000				
Barium	233.5	0.0000000				
Beryllium	313.0	0.0000000				
Cadmium	228.8	0.0000000				
Chromium	267.7	0.0000000				
Copper	224.7	0.0000000				
Lead	220.3	0.0000000				
Nickel	231.6	0.0000000				
Selenium	196.0	0.0000000				
Silver	328.0	0.0000000				
Thallium	190.8	0.0000000				
Tin	189.9	0.0000000				
Zinc	206.2	0.0000000				

Comments:

FORM XA-IN

ICP-AES AND ICP-MS LINEAR RANGES (QUARTERLY)

Lab Name: Empirical Laboratories, LLC

Client: Tetra Tech NUS, Inc. (T010) SDG: 1109191

Project: Navy Fuel Depot CTO JM46

ICP Instrument ID: ME-ICP Date: 09/11/2009

Analyte	Integ. Time (Sec.)	Concentration ug/L	M
Antimony	15	10000	P
Arsenic	15	10000	P
Barium	15	5000	P
Beryllium	15	10000	P
Cadmium	15	10000	P
Chromium	15	10000	P
Copper	15	10000	P
Lead	15	10000	P
Nickel	15	10000	P
Selenium	15	10000	P
Silver	15	2000	P
Thallium	15	10000	P
Tin	15	5000	P
Zinc	15	10000	P

PREPARATION BATCH SUMMARY

SW7470A

Laboratory: Empirical Laboratories, LLC SDG: 1109191

Client: Tetra Tech NUS, Inc. (T010) Project: Navy Fuel Depot CTO JM46

Batch: 1I28010 Batch Matrix: Water Preparation: pMercury-W SW 7470A

SAMPLE NAME	LAB SAMPLE ID	DATE PREPARED	INITIAL VOL./WEIGHT	FINAL VOL.
FLC-4-RB01-092211	1109191-10	09/28/11 09:12	30.00	30.00
Blank	1I28010-BLK1	09/28/11 09:12	30.00	30.00
LCS	1I28010-BS1	09/28/11 09:12	30.00	30.00

PREPARATION BATCH SUMMARY

SW6010C

Laboratory: Empirical Laboratories, LLC SDG: 1109191

Client: Tetra Tech NUS, Inc. (T010) Project: Navy Fuel Depot CTO JM46

Batch: 1J06014 Batch Matrix: Solid Preparation: MET_3050B

SAMPLE NAME	LAB SAMPLE ID	DATE PREPARED	INITIAL VOL./WEIGHT	FINAL VOL.
FLC-4-SS01-0006-092211	1109191-01	10/06/11 09:33	0.99	200.00
FLC-4-SS01-0624-092211	1109191-02	10/06/11 09:33	0.99	200.00
FLC-4-SB01-0204-092211	1109191-03	10/06/11 09:33	1.07	200.00
FLC-4-SS02-0006-092211	1109191-04	10/06/11 09:33	1.06	200.00
FLC-4-SS02-0006-092211	1109191-04RE1	10/06/11 09:33	1.06	200.00
FLC-4-SS02-0624-092211	1109191-05	10/06/11 09:33	1.08	200.00
FLC-4-SB02-0204-092211	1109191-06	10/06/11 09:33	0.96	200.00
Blank	1J06014-BLK1	10/06/11 09:33	1.00	200.00
LCS	1J06014-BS1	10/06/11 09:33	1.00	200.00
FLC-4-SS01-0624-092211	1J06014-DUP1	10/06/11 09:33	0.99	200.00
FLC-4-SS01-0624-092211	1J06014-MS1	10/06/11 09:33	0.99	200.00
FLC-4-SS01-0624-092211	1J06014-MSD1	10/06/11 09:33	1.02	200.00
FLC-4-SS01-0624-092211	1J06014-PS1	10/06/11 09:33	0.99	200.00

PREPARATION BATCH SUMMARY

SW7471A

Laboratory: Empirical Laboratories, LLC SDG: 1109191

Client: Tetra Tech NUS, Inc. (T010) Project: Navy Fuel Depot CTO JM46

Batch: 1J07003 Batch Matrix: Solid Preparation: MET_HG_S

SAMPLE NAME	LAB SAMPLE ID	DATE PREPARED	INITIAL VOL./WEIGHT	FINAL VOL.
FLC-4-SS01-0006-092211	1109191-01	10/07/11 07:56	0.34	50.00
Blank	1J07003-BLK1	10/07/11 07:56	0.30	50.00
LCS	1J07003-BS1	10/07/11 07:56	0.30	50.00

PREPARATION BATCH SUMMARY

SW7471A

Laboratory: Empirical Laboratories, LLC SDG: 1109191

Client: Tetra Tech NUS, Inc. (T010) Project: Navy Fuel Depot CTO JM46

Batch: 1J07004 Batch Matrix: Solid Preparation: MET_HG_S

SAMPLE NAME	LAB SAMPLE ID	DATE PREPARED	INITIAL VOL./WEIGHT	FINAL VOL.
FLC-4-SS01-0624-092211	1109191-02	10/07/11 07:59	0.29	50.00
FLC-4-SB01-0204-092211	1109191-03	10/07/11 07:59	0.31	50.00
FLC-4-SS02-0006-092211	1109191-04	10/07/11 07:59	0.31	50.00
FLC-4-SS02-0624-092211	1109191-05	10/07/11 07:59	0.38	50.00
FLC-4-SB02-0204-092211	1109191-06	10/07/11 07:59	0.38	50.00
Blank	1J07004-BLK1	10/07/11 07:59	0.30	50.00
LCS	1J07004-BS1	10/07/11 07:59	0.30	50.00
FLC-4-SS01-0624-092211	1J07004-MS1	10/07/11 07:59	0.32	50.00
FLC-4-SS01-0624-092211	1J07004-MSD1	10/07/11 07:59	0.30	50.00

PREPARATION BATCH SUMMARY

SW6010C

Laboratory: Empirical Laboratories, LLC SDG: 1109191

Client: Tetra Tech NUS, Inc. (T010) Project: Navy Fuel Depot CTO JM46

Batch: 1K08018 Batch Matrix: Water Preparation: MET_3005A_LOW

SAMPLE NAME	LAB SAMPLE ID	DATE PREPARED	INITIAL VOL./WEIGHT	FINAL VOL.
FLC-4-RB01-092211	1109191-11	11/08/11 11:34	100.00	25.00
Blank	1K08018-BLK1	11/08/11 11:34	100.00	25.00
LCS	1K08018-BS1	11/08/11 11:34	100.00	25.00

ANALYSIS SEQUENCE SUMMARY

SW7470A

Laboratory:	Empirical Laboratories, LLC	SDG:	1109191
Client:	Tetra Tech NUS, Inc. (T010)	Project:	Navy Fuel Depot CTO JM46
Sequence:	1I27214	Instrument:	ME-FIMS
Calibration:	1272004		

Sample Name	Lab Sample ID	Lab File ID	Analysis Date/Time
Cal Standard	1I27214-CAL2	COPY092911W-003	09/28/11 14:13
Cal Standard	1I27214-CAL1	COPY092911W-002	09/28/11 14:13
Cal Standard	1I27214-CAL3	COPY092911W-004	09/28/11 14:15
Cal Standard	1I27214-CAL4	COPY092911W-005	09/28/11 14:16
Cal Standard	1I27214-CAL5	COPY092911W-006	09/28/11 14:17
Cal Standard	1I27214-CAL6	COPY092911W-007	09/28/11 14:18
Cal Standard	1I27214-CAL7	COPY092911W-008	09/28/11 14:20
Cal Standard	1I27214-CAL8	COPY092911W-009	09/28/11 14:21
Initial Cal Check	1I27214-ICV1	COPY092911W-010	09/28/11 14:23
Initial Cal Blank	1I27214-ICB1	COPY092911W-011	09/28/11 14:24
Instrument RL Check	1I27214-CRL1	COPY092911W-012	09/28/11 14:25
Calibration Check	1I27214-CCV1	COPY092911W-022	09/28/11 14:35
Calibration Blank	1I27214-CCB1	COPY092911W-023	09/28/11 14:36
Calibration Check	1I27214-CCV2	COPY092911W-033	09/28/11 14:48
Calibration Blank	1I27214-CCB2	COPY092911W-034	09/28/11 14:49
LCS	1I28010-BS1	COPY092911W-038	09/28/11 14:53
Blank	1I28010-BLK1	COPY092911W-039	09/28/11 14:54
Calibration Check	1I27214-CCV3	COPY092911W-045	09/28/11 15:00
Calibration Blank	1I27214-CCB3	COPY092911W-046	09/28/11 15:01
Calibration Check	1I27214-CCV4	COPY092911W-057	09/28/11 15:12
FLC-4-RB01-092211	1109191-10	COPY092911W-056	09/28/11 15:12
Calibration Blank	1I27214-CCB4	COPY092911W-058	09/28/11 15:14
Instrument RL Check	1I27214-CRL2	COPY092911W-067	09/28/11 15:23
Calibration Check	1I27214-CCV5	COPY092911W-068	09/28/11 15:24
Calibration Blank	1I27214-CCB5	COPY092911W-069	09/28/11 15:25

ANALYSIS SEQUENCE SUMMARY

SW6010C

Laboratory:	Empirical Laboratories, LLC	SDG:	1109191
Client:	Tetra Tech NUS, Inc. (T010)	Project:	Navy Fuel Depot CTO JM46
Sequence:	1J28401	Instrument:	ME-ICP
Calibration:	1284003		

Sample Name	Lab Sample ID	Lab File ID	Analysis Date/Time
Cal Standard	1J28401-CAL1	101011A-001	10/10/11 09:50
Cal Standard	1J28401-CAL2	101011A-002	10/10/11 09:54
Cal Standard	1J28401-CAL3	101011A-003	10/10/11 09:58
Cal Standard	1J28401-CAL4	101011A-004	10/10/11 10:02
Cal Standard	1J28401-CAL6	101011A-006	10/10/11 10:12
Initial Cal Check	1J28401-ICV1	101011B-001	10/10/11 10:54
Initial Cal Blank	1J28401-ICB1	101011B-002	10/10/11 11:01
Instrument RL Check	1J28401-CRL1	101011B-003	10/10/11 11:06
Instrument RL Check	1J28401-CRL2	101011B-004	10/10/11 11:11
Interference Check A	1J28401-IFA1	101011B-005	10/10/11 11:16
Interference Check B	1J28401-IFB1	101011B-006	10/10/11 11:22
Calibration Check	1J28401-CCV1	101011B-008	10/10/11 11:34
Calibration Blank	1J28401-CCB1	101011B-009	10/10/11 11:41
Calibration Check	1J28401-CCV6	101011C-014	10/10/11 17:50
Calibration Blank	1J28401-CCB6	101011C-015	10/10/11 17:57
Blank	1J06014-BLK1	101011C-016	10/10/11 18:01
LCS	1J06014-BS1	101011C-017	10/10/11 18:06
FLC-4-SS01-0006-092211	1109191-01	101011C-018	10/10/11 18:12
FLC-4-SS01-0624-092211	1109191-02	101011C-019	10/10/11 18:17
FLC-4-SS01-0624-092211	1J06014-MS1	101011C-020	10/10/11 18:22
FLC-4-SS01-0624-092211	1J06014-MSD1	101011C-021	10/10/11 18:26
FLC-4-SS01-0624-092211	1J06014-PS1	101011C-022	10/10/11 18:30
FLC-4-SS01-0624-092211	1J06014-DUP1	101011C-023	10/10/11 18:36
FLC-4-SB01-0204-092211	1109191-03	101011C-024	10/10/11 18:40
FLC-4-SS02-0006-092211	1109191-04	101011C-025	10/10/11 18:45
FLC-4-SS02-0624-092211	1109191-05	101011C-026	10/10/11 18:50
FLC-4-SB02-0204-092211	1109191-06	101011C-027	10/10/11 18:54
Calibration Check	1J28401-CCV7	101011C-032	10/10/11 19:18
Calibration Blank	1J28401-CCB7	101011C-033	10/10/11 19:25
Calibration Check	1J28401-CCV8	101011C-045	10/10/11 20:24
Calibration Blank	1J28401-CCB8	101011C-046	10/10/11 20:31
Instrument RL Check	1J28401-CRL3	101011C-050	10/10/11 20:51

ANALYSIS SEQUENCE SUMMARY

SW6010C

Laboratory:	Empirical Laboratories, LLC	SDG:	1109191
Client:	Tetra Tech NUS, Inc. (T010)	Project:	Navy Fuel Depot CTO JM46
Sequence:	1J28401	Instrument:	ME-ICP
Calibration:	1284003		

Sample Name	Lab Sample ID	Lab File ID	Analysis Date/Time
Instrument RL Check	1J28401-CRL4	101011C-051	10/10/11 20:56
Calibration Check	1J28401-CCV9	101011C-053	10/10/11 21:06
Calibration Blank	1J28401-CCB9	101011C-054	10/10/11 21:13
Calibration Check	1J28401-CCVA	101011C-055	10/11/11 08:00
Calibration Blank	1J28401-CCBA	101011C-056	10/11/11 08:08
FLC-4-SS02-0006-092211	1109191-04RE1	101011C-057	10/11/11 08:13
Calibration Check	1J28401-CCVB	101011C-058	10/11/11 08:19
Calibration Blank	1J28401-CCBB	101011C-059	10/11/11 08:27

ANALYSIS SEQUENCE SUMMARY

SW7471A

Laboratory:	Empirical Laboratories, LLC	SDG:	1109191
Client:	Tetra Tech NUS, Inc. (T010)	Project:	Navy Fuel Depot CTO JM46
Sequence:	1J28407	Instrument:	ME-FIMS
Calibration:	1284004		

Sample Name	Lab Sample ID	Lab File ID	Analysis Date/Time
Cal Standard	1J28407-CAL1	100711S-002	10/07/11 11:51
Cal Standard	1J28407-CAL2	100711S-003	10/07/11 11:52
Cal Standard	1J28407-CAL3	100711S-004	10/07/11 11:53
Cal Standard	1J28407-CAL4	100711S-005	10/07/11 11:55
Cal Standard	1J28407-CAL5	100711S-006	10/07/11 11:56
Cal Standard	1J28407-CAL6	100711S-007	10/07/11 11:57
Cal Standard	1J28407-CAL7	100711S-008	10/07/11 11:58
Cal Standard	1J28407-CAL8	100711S-009	10/07/11 12:00
Initial Cal Check	1J28407-ICV1	100711S-010	10/07/11 12:09
Initial Cal Blank	1J28407-ICB1	100711S-011	10/07/11 12:10
Instrument RL Check	1J28407-CRL1	100711S-012	10/07/11 12:11
LCS	1J07003-BS1	100711S-013	10/07/11 12:13
Blank	1J07003-BLK1	100711S-014	10/07/11 12:14
Calibration Check	1J28407-CCV1	100711S-022	10/07/11 12:23
Calibration Blank	1J28407-CCB1	100711S-023	10/07/11 12:25
Calibration Check	1J28407-CCV2	100711S-034	10/07/11 12:38
Calibration Blank	1J28407-CCB2	100711S-035	10/07/11 12:39
FLC-4-SS01-0006-092211	1109191-01	100711S-040	10/07/11 12:45
LCS	1J07004-BS1	100711S-041	10/07/11 12:46
Blank	1J07004-BLK1	100711S-042	10/07/11 12:48
FLC-4-SS01-0624-092211	1109191-02	100711S-043	10/07/11 12:49
FLC-4-SS01-0624-092211	1J07004-MS1	100711S-044	10/07/11 12:50
FLC-4-SS01-0624-092211	1J07004-MSD1	100711S-045	10/07/11 12:51
Calibration Check	1J28407-CCV3	100711S-046	10/07/11 12:52
Calibration Blank	1J28407-CCB3	100711S-047	10/07/11 12:54
FLC-4-SB01-0204-092211	1109191-03	100711S-048	10/07/11 12:55
FLC-4-SS02-0006-092211	1109191-04	100711S-049	10/07/11 12:56
FLC-4-SS02-0624-092211	1109191-05	100711S-050	10/07/11 12:57
FLC-4-SB02-0204-092211	1109191-06	100711S-051	10/07/11 12:59
Calibration Check	1J28407-CCV4	100711S-058	10/07/11 13:07
Calibration Blank	1J28407-CCB4	100711S-059	10/07/11 13:08

ANALYSIS SEQUENCE SUMMARY

SW6010C

Laboratory:	Empirical Laboratories, LLC	SDG:	1109191
Client:	Tetra Tech NUS, Inc. (T010)	Project:	Navy Fuel Depot CTO JM46
Sequence:	1K32008	Instrument:	ME-ICP
Calibration:	1320005		

Sample Name	Lab Sample ID	Lab File ID	Analysis Date/Time
Cal Standard	1K32008-CAL1	111111A-001	11/11/11 09:53
Cal Standard	1K32008-CAL2	111111A-002	11/11/11 09:57
Cal Standard	1K32008-CAL3	111111A-003	11/11/11 10:01
Cal Standard	1K32008-CAL4	111111A-004	11/11/11 10:06
Cal Standard	1K32008-CAL6	111111A-006	11/11/11 10:16
Initial Cal Check	1K32008-ICV1	111111B-001	11/11/11 11:01
Initial Cal Blank	1K32008-ICB1	111111B-002	11/11/11 11:08
Instrument RL Check	1K32008-CRL1	111111B-003	11/11/11 11:13
Instrument RL Check	1K32008-CRL2	111111B-004	11/11/11 11:17
Interference Check A	1K32008-IFA1	111111B-005	11/11/11 11:22
Interference Check B	1K32008-IFB1	111111B-006	11/11/11 11:30
Calibration Check	1K32008-CCV1	111111B-008	11/11/11 11:43
Calibration Blank	1K32008-CCB1	111111B-009	11/11/11 11:50
Calibration Check	1K32008-CCV6	111111C-043	11/11/11 19:15
Calibration Blank	1K32008-CCB6	111111C-044	11/11/11 19:22
Blank	1K08018-BLK1	111111C-045	11/11/11 19:27
LCS	1K08018-BS1	111111C-046	11/11/11 19:32
FLC-4-RB01-092211	1109191-11	111111C-047	11/11/11 19:38
Calibration Check	1K32008-CCV7	111111C-057	11/11/11 20:25
Calibration Blank	1K32008-CCB7	111111C-058	11/11/11 20:32

INITIAL CALIBRATION DATA

SW7470A

Laboratory:	Empirical Laboratories, LLC	SDG:	1109191
Client:	Tetra Tech NUS, Inc. (T010)	Project:	Navy Fuel Depot CTO JM46
Calibration:	1272004	Instrument:	ME-FIMS
Matrix:	Water	Calibration Dates:	9/28/11 14:13 9/28/11 14:21

Compound	Level 01		Level 02		Level 03		Level 04		Level 05		Level 06	
	ug/L	RF	ug/L	RF	ug/L	RF	ug/L	RF	ug/L	RF	ug/L	RF
Mercury	10	0.012613	6	1.243333E-02	4	0.01303	2	0.012675	1	0.01281	0.5	0.01264

INITIAL CALIBRATION DATA (Continued)

SW7470A

Laboratory:	Empirical Laboratories, LLC	SDG:	1109191
Client:	Tetra Tech NUS, Inc. (T010)	Project:	Navy Fuel Depot CTO JM46
Calibration:	1272004	Instrument:	ME-FIMS
Matrix:	Water	Calibration Dates:	9/28/11 14:13 9/28/11 14:21

Compound	Level 07		Level 08		Level 09		Level 10		Level 11		Level 12	
	ug/L	RF	ug/L	RF	ug/L	RF	ug/L	RF	ug/L	RF	ug/L	RF
Mercury	0.2	0.0122	0	0								

INITIAL CALIBRATION DATA (Continued)

SW7470A

Laboratory:	Empirical Laboratories, LLC	SDG:	1109191
Client:	Tetra Tech NUS, Inc. (T010)	Project:	Navy Fuel Depot CTO JM46
Calibration:	1272004	Instrument:	ME-FIMS
Matrix:	Water	Calibration Dates:	9/28/11 14:13 9/28/11 14:21

Compound	Mean RF	RF RSD	Mean RT	RT RSD	Linear r	Quad COD	LIMIT	Q
Mercury	1.105017E-02	40.46661	0	0	0.9997214		0.995	

INITIAL CALIBRATION DATA

SW6010C

Laboratory:	Empirical Laboratories, LLC	SDG:	1109191
Client:	Tetra Tech NUS, Inc. (T010)	Project:	Navy Fuel Depot CTO JM46
Calibration:	1284003	Instrument:	ME-ICP
Matrix:	Water	Calibration Dates:	10/10/11 9:50 10/10/11 10:23

Compound	Level 01		Level 02		Level 03		Level 04		Level 05		Level 06	
	ug/L	RF	ug/L	RF	ug/L	RF	ug/L	RF	ug/L	RF	ug/L	RF
Aluminum	0	0	5000	2.0886E-05	10000	2.0695E-05			500000	2.0788E-05		
Antimony	0	0	100	0.000524	1000	5.403101E-04					10000	5.4296E-04
Arsenic	0	0	100	0.0003146	1000	3.3499E-04					10000	3.3176E-04
Barium	0	0	50	0.010776	1000	0.010231	5000	0.0106962				
Beryllium	0	0	100	0.0027255	1000	0.0027086					10000	0.0026047
Boron	0	0	50	0.000014	1000	1.407E-05					5000	1.3824E-05
Cadmium	0	0	100	0.016013	1000	0.016144					10000	0.015421
Calcium	0	0	1100	6.337272E-05	50000	6.1622E-05					10000	
Chromium	0	0	100	0.0000486	1000	4.738E-05					10000	4.776E-05
Cobalt	0	0	100	0.0047123	1000	0.004662					10000	0.0048129
Copper	0	0	100	0.0000636	1000	6.032E-05					10000	6.0699E-05
Iron	0	0	5100	2.167059E-05	10000	2.0458E-05			500000	1.95962E-05	10000	
Lead	0	0	100	0.0012694	1000	0.0012314					10000	0.0012725
Magnesium	0	0	5100		50000	2.1814E-06			500000	2.1744E-06	10000	
Manganese	0	0	100	0.0002757	1000	0.0002684	10000	2.7223E-04			10000	
Molybdenum	0	0	100	0.0035359	1000	0.0036449					10000	0.003655
Nickel	0	0	100	0.0031173	1000	0.0030472					10000	0.0030891
Potassium	0	0	1000	8.620001E-06	10000	1.235E-05						
Selenium	0	0	100	0.0003686	1000	3.7807E-04					10000	3.7372E-04
Silver	0	0	20	0.00006	500	0.0000572	2000	6.0515E-05				
Sodium	0	0	1000		50000	3.5856E-05						
Strontium	0	0	100	0.001524	1000	0.001519					10000	0.001522
Thallium	0	0	100	0.000685	1000	6.7562E-04					10000	6.8959E-04
Tin	0	0	50	0.001253	1000	0.0012925					5000	1.29256E-03
Titanium	0	0	100	0.0002208	1000	2.1725E-04					10000	2.1663E-04
Vanadium	0	0	100	0.0000509	1000	5.057E-05					10000	5.0393E-05
Zinc	0	0	100	0.0067133	1000	0.0067967					10000	0.0067271

INITIAL CALIBRATION DATA (Continued)

SW6010C

Laboratory:	Empirical Laboratories, LLC	SDG:	1109191
Client:	Tetra Tech NUS, Inc. (T010)	Project:	Navy Fuel Depot CTO JM46
Calibration:	1284003	Instrument:	ME-ICP
Matrix:	Water	Calibration Dates:	10/10/11 9:50 10/10/11 10:23

Compound	Level 07		Level 08		Level 09		Level 10		Level 11		Level 12	
	ug/L	RF	ug/L	RF	ug/L	RF	ug/L	RF	ug/L	RF	ug/L	RF
Aluminum												
Antimony												
Arsenic												
Barium												
Beryllium												
Boron												
Cadmium												
Calcium	100000		500000	5.8944E-05								
Chromium												
Cobalt												
Copper												
Iron												
Lead												
Magnesium			100000	2.1234E-06								
Manganese												
Molybdenum												
Nickel												
Potassium	100000	1.291E-05										
Selenium												
Silver												
Sodium	100000	3.5845E-05	500000	3.5922E-05								
Strontium												
Thallium												
Tin												
Titanium												
Vanadium												
Zinc												

INITIAL CALIBRATION DATA (Continued)

SW6010C

Laboratory:	Empirical Laboratories, LLC	SDG:	1109191
Client:	Tetra Tech NUS, Inc. (T010)	Project:	Navy Fuel Depot CTO JM46
Calibration:	1284003	Instrument:	ME-ICP
Matrix:	Water	Calibration Dates:	10/10/11 9:50 10/10/11 10:23

Compound	Mean RF	RF RSD	Mean RT	RT RSD	Linear r	Quad COD	LIMIT	Q
Aluminum	1.559225E-05	66.66854	4.948512	185.5175	1		0.998	
Antimony	4.018175E-04	66.69931	12.05828	186.8921	0.9999999		0.998	
Arsenic	2.453375E-04	66.76637	7.137547	195.5261	0.9999983		0.998	
Barium	0.0079258	66.73559	2.653645	171.5481	0.9999162		0.998	
Beryllium	0.0020097	66.71962	6.788132	185.4945	0.9999855		0.998	
Boron	1.04735E-05	66.67399	2.721595	166.4287	0.9999878		0.998	
Cadmium	0.0118945	66.71909	12.44643	195.7233	0.9999794		0.998	
Calcium	4.598468E-05	66.7842	2.536797	137.337	0.99998		0.998	
Chromium	3.5935E-05	66.68175	35.11921	196.1354	0.9999992		0.998	
Cobalt	0.0035468	66.69013	1.369928	148.1846	0.9999903		0.998	
Copper	4.615475E-05	66.74219	1.891185	112.7936	0.9999987		0.998	
Iron	1.54312E-05	66.8943	9.654222	191.2248	0.9999991		0.998	
Lead	9.43325E-04	66.69609	3.238155	176.4073	0.9999892		0.998	
Magnesium	1.6198E-06	66.68577	117.9877	199.3951	0.9999731		0.998	
Manganese	2.040825E-04	66.68267	3.156815	146.8897	0.9999978		0.998	
Molybdenum	2.70895E-03	66.69637	19.83415	196.7556	0.9999999		0.998	
Nickel	0.0023134	66.67829	0.40094	68.84387	0.9999979		0.998	
Potassium	8.47E-06	70.35497	2.71008	163.7975	0.9999978		0.998	
Selenium	2.800975E-04	66.68098	12.30617	193.8683	0.9999986		0.998	
Silver	4.442875E-05	66.74723	4.29541	153.8098	0.999787		0.998	
Sodium	2.690575E-05	66.66679	2.661715	132.6298	0.9999999		0.998	
Strontium	1.14125E-03	66.66691	1.71485	170.4518	1		0.998	
Thallium	5.125525E-04	66.67631	3.111045	180.1829	0.9999965		0.998	
Tin	9.59515E-04	66.69495	2.997122	180.9758	0.9999999		0.998	
Titanium	1.6367E-04	66.67612	3.776625	182.7143	1		0.998	
Vanadium	3.796575E-05	66.66896	3.730295	155.9333	0.9999999		0.998	
Zinc	5.059275E-03	66.67057	13.86572	195.864	0.9999989		0.998	

INITIAL CALIBRATION DATA

SW7471A

Laboratory:	Empirical Laboratories, LLC	SDG:	1109191
Client:	Tetra Tech NUS, Inc. (T010)	Project:	Navy Fuel Depot CTO JM46
Calibration:	1284004	Instrument:	ME-FIMS
Matrix:	Solid	Calibration Dates:	10/7/11 11:51 10/7/11 12:00

Compound	Level 01		Level 02		Level 03		Level 04		Level 05		Level 06	
	ug/L	RF	ug/L	RF	ug/L	RF	ug/L	RF	ug/L	RF	ug/L	RF
Mercury	10	0.017459	6	1.738833E-02	4	0.0172525	2	0.01718	1	0.01712	0.5	0.01678

INITIAL CALIBRATION DATA (Continued)

SW7471A

Laboratory:	Empirical Laboratories, LLC	SDG:	1109191
Client:	Tetra Tech NUS, Inc. (T010)	Project:	Navy Fuel Depot CTO JM46
Calibration:	1284004	Instrument:	ME-FIMS
Matrix:	Solid	Calibration Dates:	10/7/11 11:51 10/7/11 12:00

Compound	Level 07		Level 08		Level 09		Level 10		Level 11		Level 12	
	ug/L	RF	ug/L	RF	ug/L	RF	ug/L	RF	ug/L	RF	ug/L	RF
Mercury	0.2	0.0157	0	0								

INITIAL CALIBRATION DATA (Continued)

SW7471A

Laboratory:	Empirical Laboratories, LLC	SDG:	1109191
Client:	Tetra Tech NUS, Inc. (T010)	Project:	Navy Fuel Depot CTO JM46
Calibration:	1284004	Instrument:	ME-FIMS
Matrix:	Solid	Calibration Dates:	10/7/11 11:51 10/7/11 12:00

Compound	Mean RF	RF RSD	Mean RT	RT RSD	Linear r	Quad COD	LIMIT	Q
Mercury	1.485998E-02	40.58251	0	0	0.9999738		0.995	

INITIAL CALIBRATION DATA

SW6010C

Laboratory:	Empirical Laboratories, LLC	SDG:	1109191
Client:	Tetra Tech NUS, Inc. (T010)	Project:	Navy Fuel Depot CTO JM46
Calibration:	1320005	Instrument:	ME-ICP
Matrix:	Water	Calibration Dates:	11/11/11 9:53 11/11/11 10:26

Compound	Level 01		Level 02		Level 03		Level 04		Level 05		Level 06	
	ug/L	RF	ug/L	RF	ug/L	RF	ug/L	RF	ug/L	RF	ug/L	RF
Aluminum	0	0	5000	2.1608E-05	10000	2.1213E-05			500000	2.153E-05		
Antimony	0	0	100	0.0005209	1000	5.2385E-04					10000	0.0005092
Arsenic	0	0	100	0.0003221	1000	3.3552E-04					10000	3.2962E-04
Barium	0	0	50	0.0109042	1000	0.010117	5000	0.0104832				
Beryllium	0	0	100	0.0027404	1000	0.0027181					10000	0.0026767
Boron	0	0	50	0.0000148	1000	0.0000145					5000	1.445E-05
Cadmium	0	0	100	0.016187	1000	0.016128					10000	0.015325
Calcium	0	0	1100	6.495455E-05	50000	6.2184E-05					10000	
Chromium	0	0	100	0.0000493	1000	0.0000471					10000	4.7397E-05
Cobalt	0	0	100	0.0047153	1000	0.0045193					10000	0.0045333
Copper	0	0	100	0.0000645	1000	5.948E-05					10000	5.8055E-05
Iron	0	0	5100	1.996078E-05	10000	1.9072E-05			500000	1.88676E-05	10000	
Lead	0	0	100	0.0012682	1000	0.001206					10000	0.001221
Magnesium	0	0	5100		50000	2.5012E-06			500000	2.6066E-06	10000	
Manganese	0	0	100	0.0002821	1000	2.7017E-04	10000	2.7363E-04			10000	
Molybdenum	0	0	100	0.0035982	1000	0.0036375					10000	0.0036123
Nickel	0	0	100	0.0031621	1000	0.0030461					10000	0.0030713
Potassium	0	0	1000	8.95E-06	10000	1.2594E-05						
Selenium	0	0	100	0.0003773	1000	3.7424E-04					10000	0.0003633
Silver	0	0	20	0.000062	500	5.814E-05	2000	6.1745E-05				
Sodium	0	0	1000		50000	3.774E-05						
Thallium	0	0	100	0.0007058	1000	0.0006843					10000	6.9765E-04
Tin	0	0	50	0.0012638	1000	0.0012628					5000	0.001271
Titanium	0	0	100	0.0002244	1000	2.1592E-04					10000	2.1299E-04
Vanadium	0	0	100	0.0000521	1000	5.086E-05					10000	5.0965E-05
Zinc	0	0	100	0.0067105	1000	0.0066699					10000	0.0065441
Strontium	0	0	100	0.001605	1000	0.001557					10000	0.001539

INITIAL CALIBRATION DATA (Continued)

SW6010C

Laboratory:	Empirical Laboratories, LLC	SDG:	1109191
Client:	Tetra Tech NUS, Inc. (T010)	Project:	Navy Fuel Depot CTO JM46
Calibration:	1320005	Instrument:	ME-ICP
Matrix:	Water	Calibration Dates:	11/11/11 9:53 11/11/11 10:26

Compound	Level 07		Level 08		Level 09		Level 10		Level 11		Level 12	
	ug/L	RF	ug/L	RF	ug/L	RF	ug/L	RF	ug/L	RF	ug/L	RF
Aluminum												
Antimony												
Arsenic												
Barium												
Beryllium												
Boron												
Cadmium												
Calcium	100000		500000	6.0054E-05								
Chromium												
Cobalt												
Copper												
Iron												
Lead												
Magnesium			100000	2.4559E-06								
Manganese												
Molybdenum												
Nickel												
Potassium	100000	1.3291E-05										
Selenium												
Silver												
Sodium	100000	3.8676E-05	500000	3.7882E-05								
Thallium												
Tin												
Titanium												
Vanadium												
Zinc												
Strontium												

INITIAL CALIBRATION DATA (Continued)

SW6010C

Laboratory:	Empirical Laboratories, LLC	SDG:	1109191
Client:	Tetra Tech NUS, Inc. (T010)	Project:	Navy Fuel Depot CTO JM46
Calibration:	1320005	Instrument:	ME-ICP
Matrix:	Water	Calibration Dates:	11/11/11 9:53 11/11/11 10:26

Compound	Mean RF	RF RSD	Mean RT	RT RSD	Linear r	Quad COD	LIMIT	Q
Aluminum	1.608775E-05	66.67512	6.305697	181.8778	0.9999999		0.998	
Antimony	3.884875E-04	66.68655	83.8594	199.2468	0.9999923		0.998	
Arsenic	2.4681E-04	66.70379	17.85221	193.6393	0.999996		0.998	
Barium	0.0078761	66.79162	0.4390525	137.6437	0.9999436		0.998	
Beryllium	0.0020338	66.6793	6.39263	188.0332	0.9999979		0.998	
Boron	1.09375E-05	66.68164	3.199575	158.7001	0.9999997		0.998	
Cadmium	0.01191	66.74836	6.91048	191.7931	0.9999748		0.998	
Calcium	4.679814E-05	66.80437	2.01512	130.4906	0.999988		0.998	
Chromium	3.594925E-05	66.72177	70.19844	197.9071	0.9999992		0.998	
Cobalt	3.441975E-03	66.71711	0.449335	57.69713	0.9999996		0.998	
Copper	4.550875E-05	66.9428	1.299625	65.66227	0.999997		0.998	
Iron	1.44751E-05	66.74721	800.3199	199.8684	0.9999998		0.998	
Lead	0.0009238	66.72837	8.026793	191.3218	0.9999979		0.998	
Magnesium	1.890925E-06	66.75022	24.34786	197.5786	0.9998726		0.998	
Manganese	2.06475E-04	66.71084	0.7776825	21.16397	0.9999979		0.998	
Molybdenum	0.002712	66.66936	16.75452	196.2171	0.9999995		0.998	
Nickel	2.319875E-03	66.70124	2.350808	178.6777	0.9999989		0.998	
Potassium	8.70875E-06	70.1582	2.14814	120.1306	0.9999947		0.998	
Selenium	2.7871E-04	66.70153	21.02337	195.5623	0.9999924		0.998	
Silver	4.547125E-05	66.77926	2.61144	140.8439	0.999756		0.998	
Sodium	2.85745E-05	66.68224	3.784958	172.8338	0.9999777		0.998	
Thallium	5.219375E-04	66.68829	2.639175	153.7703	0.9999964		0.998	
Tin	0.0009494	66.66778	3.64296	181.0898	0.9999984		0.998	
Titanium	1.633275E-04	66.73245	5.014593	184.4293	0.9999988		0.998	
Vanadium	3.848125E-05	66.68263	1.14411	89.3533	0.9999999		0.998	
Zinc	4.981125E-03	66.68184	9.980775	194.0673	0.9999967		0.998	
Strontium	1.17525E-03	66.70879	1.3526	90.4131	0.9999988		0.998	

Data for SW6010C / SW7470A / SW7471A Supporting Raw Data / Logs

Sample Name: SEQ-CAL1 Acquired: 10/10/2011 9:50:17 Type: Cal
Method: DuoEnviroMethodNEW(v2432) Mode: IR Corr. Factor: 1.000000
User: rburr Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Ag3280	Al3961	As1890	As1972	B_2496	Ba2335	Be3130
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	**.00005**	**-.00064**	**-.00055**	**.00113**	**.00003**	**.00692**	**.00030**
Stddev	.00001	.00012	.00015	.00006	.00000	.00066	.00008
%RSD	14.167	18.716	28.071	5.5471	9.5103	9.4810	25.671
#1	.00005	-.00066	-.00071	.00106	.00002	.00629	.00025
#2	.00004	-.00075	-.00040	.00117	.00003	.00686	.00039
#3	.00005	-.00051	-.00054	.00117	.00003	.00760	.00026

Elem	Ca3179	Cd2144	Cd2288	Co2286	Cr2677	Cu2199	Cu3247
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	**.00045**	**.00150**	**.03234**	**.00617**	**.00000**	**.0000**	**.00037**
Stddev	.00003	.00074	.00043	.00027	.0000	.0000	.00002
%RSD	7.7309	48.987	1.3303	4.4120	138.44	321.2	5.0796
#1	.00049	.00072	.03283	.00585	-.00001	.0000	.00036
#2	.00043	.00161	.03202	.00633	-.00001	.0000	.00036
#3	.00043	.00218	.03217	.00632	.00000	.0000	.00039

Elem	Fe2611	K_7664	Mg2790	Mn2576	Mo2020	Na5895	Ni2316
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	**.00008**	**-.00389**	**-.00001**	**.00005**	**.00066**	**-.00188**	**.00376**
Stddev	.00003	.00036	.00003	.00001	.00052	.00015	.00003
%RSD	37.342	9.3458	470.88	10.083	78.371	7.8068	.75894
#1	.00010	-.00422	.00002	.00006	.00070	-.00198	.00379
#2	.00004	-.00350	-.00003	.00005	.00116	-.00171	.00375
#3	.00009	-.00395	-.00001	.00006	.00013	-.00195	.00373

Elem	Pb2203	Sb2068	Se1960	Sn1899	Sr4215	Ti3349	Tl1908
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	**.00153**	**-.00042**	**.00073**	**-.00167**	**-.0013**	**.00060**	**-.00202**
Stddev	.00018	.00019	.00035	.00019	.0001	.00008	.00023
%RSD	11.796	45.849	48.091	11.131	6.096	14.127	11.519
#1	.00135	-.00051	.00095	-.00158	-.0013	.00052	-.00178
#2	.00152	-.00020	.00091	-.00188	-.0012	.00059	-.00225
#3	.00171	-.00055	.00032	-.00154	-.0013	.00069	-.00203

Sample Name: SEQ-CAL1 Acquired: 10/10/2011 9:50:17 Type: Cal
Method: DuoEnviroMethodNEW(v2432) Mode: IR Corr. Factor: 1.000000
User: rburr Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	V_2924	Zn2062
Units	Cts/S	Cts/S
Avg	**.00003**	**.00023**
Stddev	.00000	.00012
%RSD	12.434	54.602
#1	.00004	.00024
#2	.00003	.00010
#3	.00003	.00034

Int. Std.	Sc1880	Sc3613	Sc3613-2
Units	Cts/S	Cts/S	Cts/S
Avg	2845.4	777340.	46074.
Stddev	8.3	4785.	126.
%RSD	.29338	.61556	.27452
#1	2853.3	782560.	45929.
#2	2846.2	776310.	46160.
#3	2836.6	773160.	46134.

Sample Name: SEQ-CAL2 Acquired: 10/10/2011 9:54:33 Type: Cal
Method: DuoEnviroMethodNEW(v2432) Mode: IR Corr. Factor: 1.000000
User: rburr Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Ag3280	Al3961	As1890	As1972	B_2496	Ba2335	Be3130	Ca3179
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	**.00120**	**.10443**	**.03146**	**.02436**	**.00070**	**.53880**	**.27255**	**.06971**
Stddev	.00002	.00051	.00007	.00027	.00000	.00246	.00032	.00027
%RSD	1.6274	.48476	.23298	1.1006	.38636	.45613	.11872	.39050
#1	.00122	.10492	.03143	.02431	.00070	.53690	.27292	.07003
#2	.00119	.10391	.03142	.02465	.00069	.53793	.27230	.06957
#3	.00119	.10444	.03155	.02412	.00070	.54158	.27245	.06954

Elem	Cd2144	Cd2288	Co2286	Cr2677	Cu2199	Cu3247	Fe2611	K_7664
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	**1.6013**	**.77748**	**.47123**	**.00486**	**.0003**	**.00636**	**.11052**	**.00862**
Stddev	.0064	.00272	.00227	.00004	.0000	.00006	.00009	.00009
%RSD	.39805	.34960	.48129	.87220	.8697	.88880	.07846	1.0100
#1	1.5957	.77464	.46912	.00491	.0003	.00642	.11046	.00853
#2	1.6000	.77773	.47094	.00482	.0003	.00631	.11048	.00864
#3	1.6083	.78006	.47363	.00486	.0003	.00635	.11062	.00871

Elem	Mn2576	Mo2020	Ni2316	Pb2203	Sb2068	Se1960	Sn1899	Sr4215
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	**.02757**	**.35359**	**.31173**	**.12694**	**.05240**	**.03686**	**.06265**	**.1524**
Stddev	.00033	.00162	.00148	.00100	.00088	.00026	.00029	.0002
%RSD	1.1811	.45853	.47409	.78794	1.6860	.71876	.45648	.1013
#1	.02794	.35239	.31018	.12795	.05198	.03686	.06263	.1525
#2	.02744	.35296	.31188	.12595	.05180	.03659	.06237	.1524
#3	.02733	.35544	.31312	.12691	.05342	.03712	.06294	.1522

Elem	Ti3349	Tl1908	V_2924	Zn2062
Units	Cts/S	Cts/S	Cts/S	Cts/S
Avg	**.02208**	**.06850**	**.00509**	**.67133**
Stddev	.00007	.00026	.00006	.00327
%RSD	.29811	.38462	1.1581	.48717
#1	.02214	.06820	.00516	.66894
#2	.02208	.06869	.00507	.66999
#3	.02201	.06861	.00505	.67506

Sample Name: SEQ-CAL2 Acquired: 10/10/2011 9:54:33 Type: Cal
Method: DuoEnviroMethodNEW(v2432) Mode: IR Corr. Factor: 1.000000
User: rburr Custom ID1: Custom ID2: Custom ID3:
Comment:

Int. Std.	Sc1880	Sc3613	Sc3613-2
Units	Cts/S	Cts/S	Cts/S
Avg	2849.1	787060.	46358.
Stddev	12.9	5494.	197.
%RSD	.45447	.69805	.42388
#1	2860.2	780900.	46134.
#2	2852.3	788800.	46500.
#3	2834.9	791470.	46440.

Sample Name: SEQ-CAL3 Acquired: 10/10/2011 9:58:44 Type: Cal
Method: DuoEnviroMethodNEW(v2432) Mode: IR Corr. Factor: 1.000000
User: rburr Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Ag3280	Al3961	As1890	As1972	B_2496	Ba2335	Be3130	Ca3179
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	**.02860**	**.20695**	**.33499**	**.24502**	**.01407**	**10.231**	**2.7086**	**3.0811**
Stddev	.00006	.00018	.00054	.00089	.00004	.027	.0159	.0219
%RSD	.22694	.08662	.16170	.36505	.27924	.26764	.58610	.70949
#1	.02856	.20686	.33438	.24420	.01403	10.199	2.7099	3.0829
#2	.02858	.20684	.33519	.24490	.01410	10.242	2.7237	3.1019
#3	.02868	.20716	.33541	.24598	.01409	10.251	2.6921	3.0583

Elem	Cd2144	Cd2288	Co2286	Cr2677	Cu2199	Cu3247	Fe2611	K_7664
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	**16.144**	**7.6869**	**4.6620**	**.04738**	**.0025**	**.06032**	**.20458**	**.12350**
Stddev	.034	.0225	.0144	.00012	.0000	.00035	.00071	.00039
%RSD	.21049	.29308	.30814	.24535	.1489	.58524	.34864	.31972
#1	16.112	7.6699	4.6463	.04730	.0025	.06025	.20431	.12391
#2	16.141	7.6784	4.6652	.04733	.0025	.06000	.20539	.12347
#3	16.180	7.7124	4.6745	.04751	.0025	.06070	.20404	.12312

Elem	Mg2790	Mn2576	Mo2020	Na5895	Ni2316	Pb2203	Sb2068	Se1960
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	**.10907**	**.26840**	**3.6449**	**1.7928**	**3.0472**	**1.2314**	**.54031**	**.37807**
Stddev	.00072	.00066	.0136	.0066	.0066	.0021	.00204	.00078
%RSD	.65645	.24726	.37303	.36584	.21781	.16610	.37741	.20517
#1	.10883	.26763	3.6306	1.7921	3.0415	1.2297	.53809	.37774
#2	.10988	.26879	3.6465	1.7996	3.0456	1.2308	.54073	.37751
#3	.10851	.26876	3.6576	1.7865	3.0545	1.2337	.54210	.37895

Elem	Sn1899	Sr4215	Ti3349	Tl1908	V_2924	Zn2062
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	**1.2925**	**1.519**	**.21725**	**.67562**	**.05057**	**6.7967**
Stddev	.0032	.004	.00062	.00175	.00013	.0178
%RSD	.24774	.2872	.28443	.25930	.25458	.26130
#1	1.2891	1.521	.21754	.67360	.05042	6.7763
#2	1.2930	1.522	.21766	.67674	.05061	6.8087
#3	1.2954	1.514	.21654	.67651	.05067	6.8050

Sample Name: SEQ-CAL3 Acquired: 10/10/2011 9:58:44 Type: Cal
Method: DuoEnviroMethodNEW(v2432) Mode: IR Corr. Factor: 1.000000
User: rburr Custom ID1: Custom ID2: Custom ID3:
Comment:

Int. Std.	Sc1880	Sc3613	Sc3613-2
Units	Cts/S	Cts/S	Cts/S
Avg	2626.4	754510.	45805.
Stddev	9.7	1665.	256.
%RSD	.36918	.22065	.55852
#1	2637.3	756330.	46022.
#2	2623.1	754110.	45523.
#3	2618.8	753070.	45871.

Sample Name: SEQ-CAL4 Acquired: 10/10/2011 10:02:42 Type: Cal
Method: DuoEnviroMethodNEW(v2432) Mode: IR Corr. Factor: 1.000000
User: rburr Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Ag3280	Ba2335	Mn2576
Units	Cts/S	Cts/S	Cts/S
Avg	**.12103**	**53.481**	**2.7223**
Stddev	.00140	.219	.0304
%RSD	1.1603	.40981	1.1159
#1	.12086	53.534	2.7162
#2	.12251	53.240	2.7553
#3	.11972	53.668	2.6955

Int. Std.	Sc1880	Sc3613
Units	Cts/S	Cts/S
Avg	2807.1	772050.
Stddev	11.0	9333.
%RSD	.39362	1.2089
#1	2806.8	772520.
#2	2818.3	762500.
#3	2796.2	781150.

Sample Name: SEQ-CAL6 Acquired: 10/10/2011 10:12:54 Type: Cal
Method: DuoEnviroMethodNEW(v2432) Mode: IR Corr. Factor: 1.000000
User: rburr Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	As1890	As1972	B_2496	Be3130	Cd2144	Cd2288	Co2286	Cr2677
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	**3.3176**	**2.4386**	**.06912**	**26.047**	**154.21**	**74.658**	**48.129**	**.47760**
Stddev	.0028	.0070	.00049	.202	.29	.146	.134	.00439
%RSD	.08451	.28614	.71048	.77671	.19017	.19618	.27828	.91927
#1	3.3197	2.4465	.06951	26.113	154.27	74.618	48.196	.48161
#2	3.3144	2.4334	.06927	25.820	153.89	74.536	47.975	.47829
#3	3.3187	2.4359	.06857	26.209	154.47	74.820	48.216	.47291

Elem	Cu2199	Cu3247	Mo2020	Ni2316	Pb2203	Sb2068	Se1960	Sn1899
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	**.0250**	**.60699**	**36.550**	**30.891**	**12.725**	**5.4296**	**3.7372**	**6.4628**
Stddev	.0002	.00614	.049	.047	.026	.0174	.0078	.0099
%RSD	.7749	1.0111	.13404	.15292	.20258	.32070	.20976	.15327
#1	.0252	.61376	36.567	30.875	12.716	5.4432	3.7357	6.4622
#2	.0250	.60544	36.494	30.853	12.704	5.4100	3.7302	6.4532
#3	.0248	.60178	36.588	30.944	12.754	5.4356	3.7457	6.4730

Elem	Sr4215	Ti3349	Tl1908	V_2924	Zn2062
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	**15.22**	**2.1663**	**6.8959**	**.50393**	**67.271**
Stddev	.06	.0086	.0194	.00541	.076
%RSD	.3749	.39696	.28126	1.0745	.11240
#1	15.28	2.1584	6.8836	.50405	67.341
#2	15.16	2.1755	6.8859	.50928	67.191
#3	15.22	2.1651	6.9183	.49846	67.281

Int. Std.	Sc1880	Sc3613	Sc3613-2
Units	Cts/S	Cts/S	Cts/S
Avg	2663.4	774600.	47362.
Stddev	3.3	6286.	173.
%RSD	.12412	.81155	.36629
#1	2662.9	768350.	47239.
#2	2667.0	774530.	47560.
#3	2660.4	780920.	47286.

Sample Name: SEQ-ICV Acquired: 10/10/2011 10:54:21 Type: QC
Method: DuoEnviroMethodNEW(v2432) Mode: CONC Corr. Factor: 1.000000
User: rburr Custom ID1: Custom ID2: Custom ID3:
Comment: 11J0157

Elem	Ag3280	Al3961	As1890	As1972	B_2496	Ba2335	Be3130
Units	ppb	ppb	ppb	ppb	ppb	ppb	ppb
Avg	**489.90**	**10013.**	**1028.9**	**1011.6**	F **1099.3**	**987.02**	**1037.1**
Stddev	3.71	20.	5.2	6.1	9.1	3.98	6.9
%RSD	.75739	.19828	.50875	.60268	.82552	.40336	.66654
#1	486.70	10005.	1029.0	1007.9	1095.4	985.15	1029.2
#2	489.02	9999.0	1023.6	1008.3	1092.8	984.33	1040.1
#3	493.97	10036.	1034.1	1018.7	1109.7	991.60	1042.1
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Fail	Chk Pass	Chk Pass
Value					1000.0		
Range					±50.000		

Elem	Ca3179	Cd2144	Cd2288	Co2286	Cr2677	Cu2199	Cu3247
Units	ppm	ppb	ppb	ppb	ppb	ppb	ppb
Avg	F **53.156**	F **1080.7**	F **1056.8**	**990.52**	**983.96**	**1036.**	**988.89**
Stddev	.541	3.7	2.8	6.06	7.76	5.	7.16
%RSD	1.0169	.34389	.26408	.61138	.78834	.4977	.72418
#1	52.539	1079.4	1055.4	988.12	977.72	1032.	981.80
#2	53.383	1077.7	1055.1	986.03	981.51	1034.	988.75
#3	53.546	1084.8	1060.0	997.41	992.64	1042.	996.12
Check ?	Chk Fail	Chk Fail	Chk Fail	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value	50.000	1000.0	1000.0				
Range	±2.5000	±50.000	±50.000				

Elem	Fe2611	K_7664	Mg2790	Mn2576	Mo2020	Na5895	Ni2316
Units	ppb	ppm	ppm	ppb	ppb	ppm	ppb
Avg	F **10606.**	F **9.1785**	**51.292**	**1034.1**	**1034.9**	**50.691**	**999.41**
Stddev	28.	.0088	.336	8.4	4.2	.050	3.31
%RSD	.26487	.09569	.65433	.81665	.40663	.09766	.33116
#1	10575.	9.1736	50.908	1029.3	1032.0	50.639	998.64
#2	10615.	9.1734	51.527	1029.1	1033.0	50.738	996.56
#3	10629.	9.1887	51.443	1043.9	1039.7	50.696	1003.0
Check ?	Chk Fail	Chk Fail	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value	10000.	10.000					
Range	±500.00	±-.50000					

Sample Name: SEQ-ICV Acquired: 10/10/2011 10:54:21 Type: QC
Method: DuoEnviroMethodNEW(v2432) Mode: CONC Corr. Factor: 1.000000
User: rburr Custom ID1: Custom ID2: Custom ID3:
Comment: 11J0157

Elem	Pb2203	Sb2068	Se1960	Sn1899	Sr4215	Ti3349	Tl1908
Units	ppb	ppb	ppb	ppb	ppb	ppb	ppb
Avg	**984.30**	**1013.6**	**1012.0**	**1015.9**	**1013.**	**1029.5**	**982.02**
Stddev	6.10	4.9	3.9	2.9	6.	8.7	2.14
%RSD	.61928	.48102	.38784	.28221	.5662	.84956	.21756
#1	982.00	1010.2	1009.9	1014.9	1007.	1019.6	982.30
#2	979.69	1011.4	1009.6	1013.7	1015.	1032.9	979.76
#3	991.22	1019.2	1016.6	1019.2	1018.	1036.0	984.01
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value							
Range							

Elem	V_2924	Zn2062
Units	ppb	ppb
Avg	**1037.2**	**1026.1**
Stddev	7.8	4.5
%RSD	.74756	.43505
#1	1032.4	1023.4
#2	1033.0	1023.8
#3	1046.1	1031.3
Check ?	Chk Pass	Chk Pass
Value		
Range		

Int. Std.	Sc1880	Sc3613	Sc3613-2
Units	Cts/S	Cts/S	Cts/S
Avg	2584.7	734620.	44849.
Stddev	10.6	4480.	152.
%RSD	.41177	.60989	.33887
#1	2590.8	738750.	45022.
#2	2590.9	735270.	44784.
#3	2572.4	729850.	44740.

Sample Name: SEQ-ICB Acquired: 10/10/2011 11:01:44 Type: QC
Method: DuoEnviroMethodNEW(v2432) Mode: CONC Corr. Factor: 1.000000
User: rburr Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Ag3280	Al3961	As1890	As1972	B_2496	Ba2335	Be3130	Ca3179
Units	ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppm
Avg	**-.06913**	**9.9989**	**.12239**	**.40704**	**.76782**	**.07200**	**-.00381**	**.00027**
Stddev	.07078	7.5913	.59453	1.0889	.44437	.04614	.01221	.00097
%RSD	102.39	75.922	485.78	267.51	57.874	64.079	320.35	352.66
#1	-.14515	5.5326	.13186	1.6227	.76110	.12301	.00740	.00001
#2	-.00512	18.764	-.47682	.07698	1.2155	.05980	-.00201	-.00054
#3	-.05712	5.7000	.71213	-.47861	.32685	.03318	-.01682	.00135
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit								
Low Limit								

Elem	Cd2144	Cd2288	Co2286	Cr2677	Cu2199	Cu3247	Fe2611	K_7664
Units	ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppm
Avg	**.02022**	**-.19669**	**-.01505**	**.11793**	**.2520**	**-.54970**	**.54915**	**-.03409**
Stddev	.01790	.05786	.05727	.13403	.3341	.12540	3.0290	.02343
%RSD	88.529	29.418	380.50	113.65	132.6	22.813	551.58	68.723
#1	.04051	-.19073	.04752	.13292	.5932	-.40572	-2.9213	-.01334
#2	.00668	-.25729	-.02779	-.02297	.2375	-.63505	2.6612	-.02944
#3	.01346	-.14203	-.06488	.24382	-.0746	-.60833	1.9076	-.05950
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit								
Low Limit								

Elem	Mg2790	Mn2576	Mo2020	Na5895	Ni2316	Pb2203	Sb2068	Se1960
Units	ppm	ppb	ppb	ppm	ppb	ppb	ppb	ppb
Avg	**.01078**	**-.01697**	**1.0253**	**-.00335**	**.33107**	**-.25345**	**-.13053**	**.11267**
Stddev	.00875	.01987	.0891	.00353	.21336	.35906	.78090	.96866
%RSD	81.209	117.07	8.6920	105.61	64.445	141.67	598.28	859.71
#1	.00360	-.03983	1.1265	-.00098	.57209	-.56509	.42212	.90005
#2	.00820	-.00380	.95853	-.00165	.25475	-.33445	-1.0239	-.96900
#3	.02053	-.00729	.99089	-.00741	.16637	.13918	.21019	.40697
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit								
Low Limit								

Sample Name: SEQ-ICB Acquired: 10/10/2011 11:01:44 Type: QC
Method: DuoEnviroMethodNEW(v2432) Mode: CONC Corr. Factor: 1.000000
User: rburr Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Sn1899	Sr4215	Ti3349	Tl1908	V_2924	Zn2062
Units	ppb	ppb	ppb	ppb	ppb	ppb
Avg	**.41816**	**.0518**	**.22794**	**.55940**	**.15926**	**-.02425**
Stddev	.14905	.0269	.18840	.26722	.12125	.03307
%RSD	35.644	51.88	82.650	47.769	76.134	136.37
#1	.52558	.0767	.20250	.37710	.20356	.01190
#2	.48090	.0233	.42777	.43496	.25214	-.03166
#3	.24800	.0554	.05356	.86615	.02209	-.05299
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit						
Low Limit						

Int. Std.	Sc1880	Sc3613	Sc3613-2
Units	Cts/S	Cts/S	Cts/S
Avg	2737.1	766560.	45177.
Stddev	4.2	1134.	239.
%RSD	.15406	.14788	.52855
#1	2732.9	766110.	45381.
#2	2741.3	765720.	44914.
#3	2737.1	767850.	45237.

Sample Name: SEQ-CRL Acquired: 10/10/2011 11:06:29 Type: QC
Method: DuoEnviroMethodNEW(v2432) Mode: CONC Corr. Factor: 1.000000
User: rburr Custom ID1: Custom ID2: Custom ID3:
Comment: RLSTDA

Elem	Ag3280	Al3961	As1890	As1972	B_2496	Ba2335	Be3130	Ca3179
Units	ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppm
Avg	**1.8875**	**108.40**	**6.2284**	**5.4194**	**22.814**	**10.459**	**2.0531**	**2.0828**
Stddev	.1424	7.79	.7565	1.7997	.525	.026	.0314	.0096
%RSD	7.5460	7.1886	12.146	33.208	2.3010	.24476	1.5276	.45902
#1	1.7367	105.69	5.9678	3.7521	22.301	10.432	2.0874	2.0904
#2	2.0197	117.18	5.6366	5.1787	23.351	10.462	2.0460	2.0721
#3	1.9061	102.32	7.0807	7.3273	22.791	10.483	2.0258	2.0859
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	None	Chk Pass	Chk Pass	Chk Pass
Value								
Range								

Elem	Cd2144	Cd2288	Co2286	Cr2677	Cu2199	Cu3247	Fe2611	K_7664
Units	ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppm
Avg	**2.1667**	**1.8940**	**10.208**	**4.3420**	**8.321**	**7.7404**	**66.350**	**2.9885**
Stddev	.0172	.0990	.149	.0905	.112	.1169	3.595	.0040
%RSD	.79287	5.2252	1.4601	2.0852	1.340	1.5103	5.4174	.13452
#1	2.1614	1.9603	10.293	4.3362	8.195	7.6334	66.535	2.9841
#2	2.1529	1.7803	10.035	4.2545	8.406	7.8652	69.848	2.9920
#3	2.1860	1.9416	10.295	4.4353	8.362	7.7225	62.666	2.9895
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value								
Range								

Elem	Mg2790	Mn2576	Mo2020	Na5895	Ni2316	Pb2203	Sb2068	Se1960
Units	ppm	ppb	ppb	ppm	ppb	ppb	ppb	ppb
Avg	**3.0912**	**6.1721**	**10.513**	**3.0211**	**6.5831**	**3.0262**	**8.5964**	**5.5368**
Stddev	.0283	.0373	.048	.0066	.0689	.1177	.0690	1.3554
%RSD	.91491	.60435	.45230	.21770	1.0467	3.8909	.80266	24.480
#1	3.1223	6.1519	10.549	3.0247	6.5194	3.1617	8.5480	7.0650
#2	3.0670	6.2152	10.459	3.0250	6.6563	2.9483	8.6754	4.4799
#3	3.0842	6.1493	10.532	3.0135	6.5738	2.9687	8.5658	5.0656
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value								
Range								

Sample Name: SEQ-CRL Acquired: 10/10/2011 11:06:29 Type: QC
Method: DuoEnviroMethodNEW(v2432) Mode: CONC Corr. Factor: 1.000000
User: rburr Custom ID1: Custom ID2: Custom ID3:
Comment: RLSTDA

Elem	Sn1899	Sr4215	Ti3349	Tl1908	V_2924	Zn2062
Units	ppb	ppb	ppb	ppb	ppb	ppb
Avg	**20.914**	**6.026**	**10.209**	**4.6938**	**10.227**	**10.272**
Stddev	.135	.080	.285	.3592	.085	.113
%RSD	.64366	1.332	2.7886	7.6533	.83156	1.1023
#1	20.831	5.958	10.508	4.8895	10.178	10.246
#2	20.842	6.005	9.9415	4.9126	10.178	10.174
#3	21.069	6.115	10.179	4.2792	10.326	10.396
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value						
Range						

Int. Std.	Sc1880	Sc3613	Sc3613-2
Units	Cts/S	Cts/S	Cts/S
Avg	2742.4	766710.	45673.
Stddev	11.3	2838.	233.
%RSD	.41203	.37013	.51058
#1	2738.4	767850.	45404.
#2	2755.1	763480.	45806.
#3	2733.6	768800.	45808.

Sample Name: SEQ-CRL Acquired: 10/10/2011 11:11:07 Type: QC
Method: DuoEnviroMethodNEW(v2432) Mode: CONC Corr. Factor: 1.000000
User: rburr Custom ID1: Custom ID2: Custom ID3:
Comment: RLSTD1

Elem	Ag3280	Al3961	As1890	As1972	B_2496	Ba2335	Be3130
Units	ppb	ppb	ppb	ppb	ppb	ppb	ppb
Avg	**2.1621**	**209.67**	**5.3154**	F **6.0091**	**30.840**	**99.630**	**5.0585**
Stddev	.2398	3.58	.6019	1.2429	.661	.229	.0126
%RSD	11.090	1.7075	11.325	20.684	2.1430	.23032	.24846
#1	2.0456	212.11	4.6232	7.3241	30.503	99.473	5.0505
#2	2.4378	211.35	5.6067	5.8494	31.601	99.524	5.0521
#3	2.0028	205.56	5.7162	4.8537	30.415	99.894	5.0730
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Fail	Chk Pass	None	Chk Pass
Value				5.0000			
Range				±1.0000			

Elem	Ca3179	Cd2144	Cd2288	Co2286	Cr2677	Cu2199	Cu3247
Units	ppm	ppb	ppb	ppb	ppb	ppb	ppb
Avg	**.00056**	**5.2945**	**4.9691**	**12.777**	**5.2980**	**10.63**	**9.8135**
Stddev	.00087	.0082	.0711	.046	.0166	.90	.1165
%RSD	154.40	.15556	1.4304	.36099	.31301	8.490	1.1874
#1	-.00005	5.2877	5.0025	12.821	5.2809	9.791	9.7330
#2	.00018	5.2921	4.8875	12.729	5.3140	10.51	9.9472
#3	.00156	5.3036	5.0174	12.780	5.2992	11.59	9.7605
Check ?	None	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value							
Range							

Elem	Fe2611	K_7664	Mg2790	Mn2576	Mo2020	Na5895	Ni2316
Units	ppb	ppm	ppm	ppb	ppb	ppm	ppb
Avg	**110.01**	**-.03036**	**.01158**	**15.793**	**14.983**	**-.00620**	**10.442**
Stddev	2.19	.01373	.00532	.135	.218	.00524	.108
%RSD	1.9942	45.230	45.910	.85599	1.4540	84.453	1.0379
#1	109.66	-.02345	.00899	15.639	14.771	-.00089	10.322
#2	112.35	-.02146	.00806	15.895	14.972	-.01136	10.473
#3	108.01	-.04618	.01770	15.843	15.207	-.00635	10.532
Check ?	Chk Pass	None	None	None	Chk Pass	None	Chk Pass
Value							
Range							

Sample Name: SEQ-CRL Acquired: 10/10/2011 11:11:07 Type: QC
Method: DuoEnviroMethodNEW(v2432) Mode: CONC Corr. Factor: 1.000000
User: rburr Custom ID1: Custom ID2: Custom ID3:
Comment: RLSTD1

Elem	Pb2203	Sb2068	Se1960	Sn1899	Sr4215	Ti3349	Tl1908
Units	ppb	ppb	ppb	ppb	ppb	ppb	ppb
Avg	**3.1885**	**16.003**	**5.2510**	**31.408**	**.0688**	**15.640**	**8.5244**
Stddev	.3128	.377	.1134	.238	.0464	.552	.3965
%RSD	9.8099	2.3536	2.1600	.75718	67.36	3.5297	4.6508
#1	3.5123	15.700	5.1472	31.431	.0792	15.407	8.9397
#2	3.1651	16.425	5.2337	31.160	.0181	15.244	8.1500
#3	2.8880	15.884	5.3721	31.634	.1091	16.271	8.4835
Check ?	Chk Pass	Chk Pass	Chk Pass	None	None	Chk Pass	Chk Pass
Value							
Range							

Elem	V_2924	Zn2062
Units	ppb	ppb
Avg	**13.049**	**20.307**
Stddev	.229	.125
%RSD	1.7566	.61625
#1	12.798	20.311
#2	13.248	20.180
#3	13.100	20.430
Check ?	Chk Pass	Chk Pass
Value		
Range		

Int. Std.	Sc1880	Sc3613	Sc3613-2
Units	Cts/S	Cts/S	Cts/S
Avg	2778.3	763940.	45459.
Stddev	6.1	5951.	155.
%RSD	.22082	.77893	.34154
#1	2781.2	770800.	45546.
#2	2782.4	760190.	45551.
#3	2771.2	760830.	45280.

Sample Name: SEQ-IFA Acquired: 10/10/2011 11:16:20 Type: Unk
Method: DuoEnviroMethodNEW(v2432) Mode: CONC Corr. Factor: 1.000000
User: rburr Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Ag3280	Al3961	As1890	As1972	B_2496	Ba2335	Be3130
Units	ppb	ppb	ppb	ppb	ppb	ppb	ppb
Avg	**-.18008**	**515080.**	**-.36042**	**-4.0907**	**4.6464**	**1.2823**	**.00802**
Stddev	.10724	4027.	2.2472	3.9752	.4437	.1072	.02675
%RSD	59.551	.78185	623.49	97.175	9.5490	8.3601	333.54
#1	-.08788	519730.	-2.5050	.40611	5.0496	1.1597	.02372
#2	-.15459	512660.	1.9770	-5.5418	4.7186	1.3585	.02320
#3	-.29776	512850.	-.55317	-7.1365	4.1711	1.3286	-.02286

Elem	Ca3179	Cd2144	Cd2288	Co2286	Cr2677	Cu2199	Cu3247
Units	ppm	ppb	ppb	ppb	ppb	ppb	ppb
Avg	**494.78**	**1.5395**	**1.0686**	**-2.3191**	**-.90955**	**-11.79**	**-1.2063**
Stddev	4.20	.1884	.1335	.1915	.08571	.76	.2427
%RSD	.84932	12.239	12.491	8.2565	9.4229	6.406	20.120
#1	497.56	1.4092	.91782	-2.5153	-.97868	-11.40	-1.1199
#2	496.83	1.4537	1.1717	-2.1327	-.93633	-11.31	-1.4804
#3	489.94	1.7555	1.1163	-2.3092	-.81366	-12.66	-1.0186

Elem	Fe2611	K_7664	Mg2790	Mn2576	Mo2020	Na5895	Ni2316
Units	ppb	ppm	ppm	ppb	ppb	ppm	ppb
Avg	**206650.**	**-.04113**	**499.68**	**-3.9827**	**1.4970**	**.02315**	**-3.5261**
Stddev	1632.	.00962	4.10	.0541	.2792	.00478	.3029
%RSD	.78994	23.392	.82046	1.3572	18.651	20.638	8.5889
#1	208530.	-.04222	504.35	-4.0447	1.4267	.02239	-3.7117
#2	205820.	-.05017	498.05	-3.9454	1.2597	.02826	-3.6899
#3	205600.	-.03102	496.65	-3.9579	1.8047	.01880	-3.1766

Elem	Pb2203	Sb2068	Se1960	Sn1899	Sr4215	Ti3349	Tl1908
Units	ppb	ppb	ppb	ppb	ppb	ppb	ppb
Avg	**.50947**	**.88977**	**-2.2475**	**-1.4541**	**-3.348**	**-.05978**	**.59579**
Stddev	.95830	1.5426	.6365	.3298	.061	.23922	.49496
%RSD	188.10	173.37	28.321	22.683	1.838	400.17	83.077
#1	-.44260	-.60540	-1.6893	-1.0903	-3.382	-.27370	.03670
#2	1.4739	2.4757	-2.9407	-1.5385	-3.386	.19852	.77261
#3	.49714	.79897	-2.1125	-1.7336	-3.277	-.10416	.97805

Sample Name: SEQ-IFA Acquired: 10/10/2011 11:16:20 Type: Unk
Method: DuoEnviroMethodNEW(v2432) Mode: CONC Corr. Factor: 1.000000
User: rburr Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	V_2924	Zn2062
Units	ppb	ppb
Avg	**-.60992**	**-8.7241**
Stddev	.24055	.0687
%RSD	39.440	.78789
#1	-.35131	-8.8034
#2	-.82701	-8.6813
#3	-.65143	-8.6877

Int. Std.	Sc1880	Sc3613	Sc3613-2
Units	Cts/S	Cts/S	Cts/S
Avg	2170.1	672220.	43828.
Stddev	1.3	4151.	404.
%RSD	.06129	.61753	.92236
#1	2169.0	676910.	43374.
#2	2171.6	670700.	43963.
#3	2169.7	669030.	44148.

Sample Name: SEQ-IFB Acquired: 10/10/2011 11:22:08 Type: QC
Method: DuoEnviroMethodNEW(v2432) Mode: CONC Corr. Factor: 1.000000
User: rburr Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Ag3280	Al3961	As1890	As1972	B_2496	Ba2335	Be3130
Units	ppb	ppb	ppb	ppb	ppb	ppb	ppb
Avg	**204.56**	**515960.**	**113.40**	**103.81**	**4.4204**	**518.06**	**503.51**
Stddev	.91	4519.	2.44	3.15	.3607	.68	.68
%RSD	.44265	.87577	2.1560	3.0302	8.1588	.13038	.13601
#1	203.74	511880.	112.57	107.27	4.8108	518.73	504.06
#2	205.53	520820.	111.48	103.06	4.3507	517.38	503.72
#3	204.40	515180.	116.15	101.11	4.0997	518.09	502.74
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	None	Chk Pass	Chk Pass
Value							
Range							

Elem	Ca3179	Cd2144	Cd2288	Co2286	Cr2677	Cu2199	Cu3247
Units	ppm	ppb	ppb	ppb	ppb	ppb	ppb
Avg	**502.21**	**1056.8**	**1128.9**	**485.20**	**480.44**	**487.6**	**514.22**
Stddev	8.65	1.1	1.8	.95	2.71	4.3	3.59
%RSD	1.7225	.10261	.16008	.19489	.56485	.8866	.69781
#1	494.15	1057.8	1129.8	484.76	477.86	483.8	511.46
#2	511.35	1055.6	1126.8	484.57	483.27	492.3	518.28
#3	501.12	1056.9	1130.0	486.29	480.20	486.6	512.92
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value							
Range							

Elem	Fe2611	K_7664	Mg2790	Mn2576	Mo2020	Na5895	Ni2316
Units	ppb	ppm	ppm	ppb	ppb	ppm	ppb
Avg	**209120.**	**-.06225**	**505.47**	**477.35**	**1.4232**	**.01937**	**976.16**
Stddev	227.	.01054	.49	3.34	.1819	.00247	1.50
%RSD	.10856	16.932	.09636	.70063	12.778	12.736	.15350
#1	209230.	-.07240	504.91	473.64	1.3260	.02222	977.10
#2	209280.	-.06297	505.78	480.12	1.3105	.01804	974.43
#3	208860.	-.05136	505.72	478.30	1.6329	.01786	976.95
Check ?	Chk Pass	None	Chk Pass	Chk Pass	None	None	Chk Pass
Value							
Range							

Sample Name: SEQ-IFB Acquired: 10/10/2011 11:22:08 Type: QC
Method: DuoEnviroMethodNEW(v2432) Mode: CONC Corr. Factor: 1.000000
User: rburr Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Pb2203	Sb2068	Se1960	Sn1899	Sr4215	Ti3349	Tl1908
Units	ppb	ppb	ppb	ppb	ppb	ppb	ppb
Avg	**48.668**	**647.15**	**53.103**	**-1.2122**	**-3.383**	**.67763**	**93.617**
Stddev	1.471	2.58	3.084	.6461	.076	.15098	1.083
%RSD	3.0223	.39844	5.8079	53.298	2.254	22.280	1.1566
#1	50.224	648.49	54.980	-1.2198	-3.366	.51874	93.677
#2	47.300	644.18	54.785	-.56234	-3.467	.81920	92.506
#3	48.480	648.79	49.543	-1.8544	-3.318	.69494	94.669
Check ?	Chk Pass	Chk Pass	Chk Pass	None	None	None	Chk Pass
Value							
Range							

Elem	V_2924	Zn2062
Units	ppb	ppb
Avg	**492.54**	**1008.2**
Stddev	3.81	1.2
%RSD	.77264	.12026
#1	488.29	1009.5
#2	495.64	1007.2
#3	493.70	1007.9
Check ?	Chk Pass	Chk Pass
Value		
Range		

Int. Std.	Sc1880	Sc3613	Sc3613-2
Units	Cts/S	Cts/S	Cts/S
Avg	2168.7	672070.	43436.
Stddev	6.2	2988.	236.
%RSD	.28694	.44466	.54403
#1	2164.5	675040.	43700.
#2	2175.9	669060.	43362.
#3	2165.7	672110.	43245.

Sample Name: SEQ-CCV Acquired: 10/10/2011 11:34:21 Type: QC
Method: DuoEnviroMethodNEW(v2432) Mode: CONC Corr. Factor: 1.000000
User: rburr Custom ID1: Custom ID2: Custom ID3:
Comment: 11J0158

Elem	Ag3280	Al3961	As1890	As1972	B_2496	Ba2335	Be3130	Ca3179
Units	ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppm
Avg	**482.35**	**9974.9**	**1024.1**	**1032.0**	**1032.5**	**985.64**	**1023.0**	**51.093**
Stddev	1.28	36.7	5.3	7.6	.7	5.88	.5	.143
%RSD	.26603	.36753	.51366	.73454	.06918	.59619	.04494	.27952
#1	483.27	10009.	1024.0	1035.4	1032.8	984.45	1022.7	51.233
#2	482.90	9980.0	1019.0	1023.3	1033.1	980.46	1023.5	50.947
#3	480.89	9936.0	1029.5	1037.2	1031.7	992.02	1022.9	51.100
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value								
Range								

Elem	Cd2144	Cd2288	Co2286	Cr2677	Cu2199	Cu3247	Fe2611	K_7664
Units	ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppm
Avg	**1060.1**	**1044.0**	**1005.4**	**1013.9**	**1017.**	**1013.5**	**10394.**	**9.8493**
Stddev	6.2	6.5	6.5	4.0	2.	3.9	11.	.0206
%RSD	.58885	.61781	.64552	.39777	.1626	.38128	.10121	.20950
#1	1057.0	1040.7	1004.5	1017.0	1017.	1016.0	10385.	9.8644
#2	1056.0	1039.9	999.36	1015.4	1015.	1015.4	10406.	9.8258
#3	1067.3	1051.4	1012.3	1009.3	1019.	1009.1	10392.	9.8576
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value								
Range								

Elem	Mg2790	Mn2576	Mo2020	Na5895	Ni2316	Pb2203	Sb2068	Se1960
Units	ppm	ppb	ppb	ppm	ppb	ppb	ppb	ppb
Avg	**49.800**	**1006.5**	**1016.5**	**49.889**	**1005.9**	**995.52**	**1029.7**	**1029.1**
Stddev	.110	1.3	6.0	.103	7.0	6.15	7.5	7.2
%RSD	.22077	.13165	.59138	.20557	.69784	.61731	.73026	.69694
#1	49.872	1006.5	1013.9	49.882	1002.8	993.85	1027.5	1028.6
#2	49.855	1007.8	1012.2	49.995	1001.0	990.38	1023.5	1022.1
#3	49.674	1005.2	1023.3	49.790	1013.9	1002.3	1038.0	1036.4
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value								
Range								

Sample Name: SEQ-CCV Acquired: 10/10/2011 11:34:21 Type: QC
Method: DuoEnviroMethodNEW(v2432) Mode: CONC Corr. Factor: 1.000000
User: rburr Custom ID1: Custom ID2: Custom ID3:
Comment: 11J0158

Elem	Sn1899	Sr4215	Ti3349	Tl1908	V_2924	Zn2062
Units	ppb	ppb	ppb	ppb	ppb	ppb
Avg	**1006.7**	**1005.**	**1006.6**	**996.85**	**1020.7**	**1031.0**
Stddev	6.5	3.	2.8	6.97	2.2	4.9
%RSD	.64811	.2554	.27905	.69871	.21974	.47754
#1	1005.2	1007.	1006.0	992.42	1022.9	1029.5
#2	1001.1	1002.	1004.0	993.26	1020.8	1027.0
#3	1013.9	1006.	1009.6	1004.9	1018.4	1036.5
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value						
Range						

Int. Std.	Sc1880	Sc3613	Sc3613-2
Units	Cts/S	Cts/S	Cts/S
Avg	2545.1	738030.	45231.
Stddev	13.2	684.	60.
%RSD	.51777	.09262	.13186
#1	2552.8	737890.	45177.
#2	2552.6	737430.	45222.
#3	2529.9	738770.	45295.

Sample Name: SEQ-CCB Acquired: 10/10/2011 11:41:36 Type: QC
Method: DuoEnviroMethodNEW(v2432) Mode: CONC Corr. Factor: 1.000000
User: rburr Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Ag3280	Al3961	As1890	As1972	B_2496	Ba2335	Be3130	Ca3179
Units	ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppm
Avg	**.14232**	**-1.5720**	**.49557**	**-.44186**	**.57275**	**.19690**	**-.00657**	**.00117**
Stddev	.13201	9.3861	.24786	.70784	.53395	.08794	.03309	.00277
%RSD	92.753	597.09	50.016	160.20	93.225	44.662	503.79	236.28
#1	.02471	9.0369	.78176	.36933	.08654	.17081	-.04158	-.00005
#2	.11716	-4.9557	.35516	-.93420	.48752	.29493	-.00230	-.00078
#3	.28510	-8.7971	.34979	-.76071	1.1442	.12496	.02418	.00435
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit								
Low Limit								

Elem	Cd2144	Cd2288	Co2286	Cr2677	Cu2199	Cu3247	Fe2611	K_7664
Units	ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppm
Avg	**.17871**	**-.06217**	**.17990**	**.03162**	**.1961**	**-.32391**	**-.11888**	**-.02690**
Stddev	.08457	.01840	.09111	.08833	.8088	.09421	3.0809	.03461
%RSD	47.324	29.593	50.645	279.33	412.5	29.084	2591.7	128.68
#1	.21427	-.08283	.20919	-.02326	-.2090	-.34819	-2.9162	-.06639
#2	.23970	-.04755	.25275	-.01539	1.127	-.21995	3.1833	-.01241
#3	.08216	-.05613	.07774	.13352	-.3302	-.40361	-.62374	-.00188
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit								
Low Limit								

Elem	Mg2790	Mn2576	Mo2020	Na5895	Ni2316	Pb2203	Sb2068	Se1960
Units	ppm	ppb	ppb	ppm	ppb	ppb	ppb	ppb
Avg	**.00438**	**.06779**	**.97413**	**-.00298**	**.29918**	**-.36762**	**.73990**	**.51723**
Stddev	.00241	.01882	.18901	.00951	.01102	.44640	.27214	1.9754
%RSD	54.970	27.756	19.403	318.72	3.6827	121.43	36.781	381.92
#1	.00280	.08456	1.1387	-.00775	.28816	-.78918	1.0343	2.2519
#2	.00319	.07136	1.0160	-.00916	.31020	-.41374	.49747	.93264
#3	.00716	.04744	.76770	.00796	.29918	.10005	.68796	-1.6328
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit								
Low Limit								

Sample Name: SEQ-CCB Acquired: 10/10/2011 11:41:36 Type: QC
Method: DuoEnviroMethodNEW(v2432) Mode: CONC Corr. Factor: 1.000000
User: rburr Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Sn1899	Sr4215	Ti3349	Tl1908	V_2924	Zn2062
Units	ppb	ppb	ppb	ppb	ppb	ppb
Avg	**.64934**	**.1221**	**.45545**	**.88905**	**.09104**	**.15470**
Stddev	.16240	.0743	.23223	.72178	.10563	.07593
%RSD	25.010	60.84	50.988	81.185	116.03	49.081
#1	.78787	.1735	.25933	.92036	.02163	.17235
#2	.68953	.0369	.39515	1.5947	.03887	.22024
#3	.47061	.1558	.71188	.15213	.21261	.07150
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit						
Low Limit						

Int. Std.	Sc1880	Sc3613	Sc3613-2
Units	Cts/S	Cts/S	Cts/S
Avg	2751.8	762620.	44837.
Stddev	6.6	5541.	256.
%RSD	.23840	.72654	.57065
#1	2753.3	763560.	44553.
#2	2757.5	756670.	45050.
#3	2744.7	767630.	44907.

Sample Name: SEQ-CCV Acquired: 10/10/2011 17:50:08 Type: QC
Method: DuoEnviroMethodNEW(v2432) Mode: CONC Corr. Factor: 1.000000
User: rburr Custom ID1: Custom ID2: Custom ID3:
Comment: 11J0158

Elem	Ag3280	Al3961	As1890	As1972	B_2496	Ba2335	Be3130
Units	ppb	ppb	ppb	ppb	ppb	ppb	ppb
Avg	**487.15**	**10193.**	**1055.3**	F **1101.3**	**1037.0**	**1029.6**	**1025.5**
Stddev	5.14	16.	9.7	13.8	10.9	7.5	.9
%RSD	1.0545	.15860	.91882	1.2536	1.0524	.72953	.09166
#1	481.25	10207.	1049.1	1099.4	1024.7	1025.7	1024.8
#2	490.64	10175.	1050.3	1088.5	1045.6	1024.7	1026.6
#3	489.55	10196.	1066.5	1115.9	1040.8	1038.2	1025.1
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Fail	Chk Pass	Chk Pass	Chk Pass
Value				1000.0			
Range				±100.00			

Elem	Ca3179	Cd2144	Cd2288	Co2286	Cr2677	Cu2199	Cu3247
Units	ppm	ppb	ppb	ppb	ppb	ppb	ppb
Avg	**52.136**	**1090.2**	**1078.3**	**1070.2**	**1040.4**	**1023.**	**1059.5**
Stddev	.098	6.2	7.6	7.6	10.7	12.	12.9
%RSD	.18758	.57167	.70452	.70966	1.0271	1.217	1.2221
#1	52.073	1086.4	1073.2	1066.3	1028.0	1009.	1044.5
#2	52.249	1086.8	1074.7	1065.3	1046.1	1027.	1066.9
#3	52.087	1097.4	1087.1	1078.9	1047.0	1033.	1067.0
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value							
Range							

Elem	Fe2611	K_7664	Mg2790	Mn2576	Mo2020	Na5895	Ni2316
Units	ppb	ppm	ppm	ppb	ppb	ppm	ppb
Avg	**10322.**	**10.038**	**49.248**	**1021.7**	**1057.4**	**49.284**	**1035.3**
Stddev	23.	.006	.044	9.9	8.3	.079	7.1
%RSD	.21982	.05652	.08914	.97375	.78183	.16108	.68783
#1	10296.	10.036	49.237	1010.2	1052.4	49.250	1031.7
#2	10332.	10.034	49.210	1028.3	1052.8	49.228	1030.8
#3	10338.	10.045	49.296	1026.4	1066.9	49.375	1043.6
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value							
Range							

Sample Name: SEQ-CCV Acquired: 10/10/2011 17:50:08 Type: QC
Method: DuoEnviroMethodNEW(v2432) Mode: CONC Corr. Factor: 1.000000
User: rburr Custom ID1: Custom ID2: Custom ID3:
Comment: 11J0158

Elem	Pb2203	Sb2068	Se1960	Sn1899	Sr4215	Ti3349	Tl1908
Units	ppb	ppb	ppb	ppb	ppb	ppb	ppb
Avg	**1045.8**	F 1107.0	1078.1	**1048.8**	**1055.**	**1061.4**	1020.7
Stddev	4.3	10.6	7.2	6.2	3.	7.0	7.0
%RSD	.40864	.95498	.67181	.59489	.3275	.66087	.68339
#1	1044.1	1103.3	1075.6	1045.4	1052.	1054.4	1015.8
#2	1042.7	1098.8	1072.5	1044.9	1059.	1068.4	1017.6
#3	1050.7	1118.9	1086.3	1056.0	1055.	1061.3	1028.7
Check ?	Chk Pass	Chk Fail	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value		1000.0					
Range		±100.00					

Elem	V_2924	Zn2062
Units	ppb	ppb
Avg	**1038.6**	**1072.2**
Stddev	9.2	7.0
%RSD	.88409	.65313
#1	1028.2	1069.5
#2	1045.2	1067.0
#3	1042.5	1080.2
Check ?	Chk Pass	Chk Pass
Value		
Range		

Int. Std.	Sc1880	Sc3613	Sc3613-2
Units	Cts/S	Cts/S	Cts/S
Avg	2454.0	729400.	44848.
Stddev	12.1	6513.	171.
%RSD	.49126	.89297	.38201
#1	2456.6	736910.	45038.
#2	2464.6	725410.	44799.
#3	2440.9	725860.	44706.

Sample Name: SEQ-CCB Acquired: 10/10/2011 17:57:23 Type: QC
Method: DuoEnviroMethodNEW(v2432) Mode: CONC Corr. Factor: 1.000000
User: rburr Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Ag3280	Al3961	As1890	As1972	B_2496	Ba2335	Be3130	Ca3179
Units	ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppm
Avg	.08357	1.9035	.27843	1.0044	1.0665	.21145	.05334	.00716
Stddev	.38394	7.4278	1.2064	1.1185	.2160	.05436	.03915	.00230
%RSD	459.45	390.21	433.30	111.36	20.256	25.708	73.399	32.149
#1	-.05471	5.6254	1.5703	.54096	1.3128	.26663	.04749	.00935
#2	-.21209	6.7346	.08399	2.2802	.90942	.20975	.01744	.00737
#3	.51749	-6.6494	-.81898	.19213	.97717	.15795	.09508	.00476
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit								
Low Limit								

Elem	Cd2144	Cd2288	Co2286	Cr2677	Cu2199	Cu3247	Fe2611	K_7664
Units	ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppm
Avg	.05185	-.29295	.08177	.04021	-.0578	-.84746	2.6021	-.00719
Stddev	.02512	.07109	.15146	.16792	.9144	.10390	1.8544	.00836
%RSD	48.456	24.266	185.22	417.61	1582.	12.260	71.267	116.18
#1	.08071	-.36866	-.02465	-.08137	.6649	-.93509	4.7110	.00236
#2	.03486	-.28257	.25517	-.02981	-1.086	-.87460	1.2265	-.01315
#3	.03998	-.22762	.01479	.23181	.2476	-.73269	1.8686	-.01080
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit								
Low Limit								

Elem	Mg2790	Mn2576	Mo2020	Na5895	Ni2316	Pb2203	Sb2068	Se1960
Units	ppm	ppb	ppb	ppm	ppb	ppb	ppb	ppb
Avg	.00502	.06744	1.0776	-.00899	.70094	.29053	.10557	.21000
Stddev	.00265	.01822	.0607	.00839	.17798	.63362	.48248	.91250
%RSD	52.763	27.015	5.6331	93.290	25.392	218.09	457.01	434.53
#1	.00215	.06135	1.0944	-.01479	.62483	-.20165	.64371	-.46496
#2	.00737	.05305	1.1281	-.01280	.90432	.06780	-.03863	-.15322
#3	.00555	.08793	1.0102	.00063	.57366	1.0054	-.28836	1.2482
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit								
Low Limit								

Sample Name: SEQ-CCB Acquired: 10/10/2011 17:57:23 Type: QC
Method: DuoEnviroMethodNEW(v2432) Mode: CONC Corr. Factor: 1.000000
User: rburr Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Sn1899	Sr4215	Ti3349	Tl1908	V_2924	Zn2062
Units	ppb	ppb	ppb	ppb	ppb	ppb
Avg	**.38638**	**.2372**	**.14579**	**1.1731**	**.22464**	**.09208**
Stddev	.11173	.0259	.12065	.2977	.10834	.04191
%RSD	28.916	10.91	82.756	25.379	48.228	45.512
#1	.28128	.2542	.04240	1.3211	.33686	.04776
#2	.50373	.2499	.27835	1.3679	.21643	.13107
#3	.37413	.2074	.11662	.83041	.12064	.09741
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit						
Low Limit						

Int. Std.	Sc1880	Sc3613	Sc3613-2
Units	Cts/S	Cts/S	Cts/S
Avg	2637.3	757760.	44726.
Stddev	1.5	4555.	132.
%RSD	.05509	.60112	.29411
#1	2638.7	752720.	44607.
#2	2637.5	761600.	44867.
#3	2635.8	758950.	44703.

Sample Name: 1J06014-BLK1 Acquired: 10/10/2011 18:01:59 Type: QC
Method: DuoEnviroMethodNEW(v2432) Mode: CONC Corr. Factor: 1.000000
User: rburr Custom ID1: Custom ID2: Custom ID3:
Comment: PBS100611E 1g->200ml

Elem	Ag3280	Al3961	As1890	As1972	B_2496	Ba2335	Be3130
Units	ppb	ppb	ppb	ppb	ppb	ppb	ppb
Avg	**.00679**	**.98164**	**-.70151**	**.79269**	**.92992**	**.24874**	**.02328**
Stddev	.15878	2.4328	1.8541	1.4804	.04906	.03100	.00941
%RSD	2340.0	247.83	264.31	186.76	5.2753	12.462	40.409
#1	.12229	3.6908	-2.6364	1.6169	.87614	.21368	.02781
#2	-.17427	.27046	-.52771	-.91637	.94142	.26004	.01246
#3	.07233	-1.0164	1.0596	1.6775	.97222	.27250	.02956
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit							
Low Limit							

Elem	Ca3179	Cd2144	Cd2288	Co2286	Cr2677	Cu2199	Cu3247
Units	ppm	ppb	ppb	ppb	ppb	ppb	ppb
Avg	**.01219**	**.09444**	**-.25765**	**.07348**	**.33524**	**-.1383**	**-1.0471**
Stddev	.00233	.04125	.06152	.11651	.10065	.8524	.1082
%RSD	19.089	43.678	23.876	158.56	30.024	616.2	10.336
#1	.00986	.13936	-.20608	.01797	.25241	.5513	-1.1057
#2	.01219	.05827	-.24113	.20737	.44726	-1.091	-1.1133
#3	.01452	.08568	-.32574	-.00490	.30605	.1251	-.92217
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit							
Low Limit							

Elem	Fe2611	K_7664	Mg2790	Mn2576	Mo2020	Na5895	Ni2316
Units	ppb	ppm	ppm	ppb	ppb	ppm	ppb
Avg	**-.38797**	**.01533**	**.01024**	**.17619**	**.68011**	**-.00902**	**.93154**
Stddev	3.3755	.00941	.00579	.02067	.01703	.00268	.05626
%RSD	870.04	61.336	56.531	11.730	2.5040	29.668	6.0392
#1	-3.4469	.02231	.01485	.15984	.66134	-.00802	.88636
#2	-.95047	.00464	.01212	.16932	.69458	-.00699	.91370
#3	3.2335	.01905	.00374	.19942	.68440	-.01206	.99455
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit							
Low Limit							

Sample Name: 1J06014-BLK1 Acquired: 10/10/2011 18:01:59 Type: QC
Method: DuoEnviroMethodNEW(v2432) Mode: CONC Corr. Factor: 1.000000
User: rburr Custom ID1: Custom ID2: Custom ID3:
Comment: PBS100611E 1g->200ml

Elem	Pb2203	Sb2068	Se1960	Sn1899	Sr4215	Ti3349	Tl1908
Units	ppb	ppb	ppb	ppb	ppb	ppb	ppb
Avg	**.03444**	**-.80069**	**.28373**	F **16.592**	**.1105**	**1.5341**	**-.32958**
Stddev	.19118	.56813	.76886	.081	.0910	.3832	.31802
%RSD	555.11	70.956	270.98	.48632	82.38	24.977	96.491
#1	.22207	-.61536	-.57253	16.685	.1845	1.1367	-.09203
#2	.04135	-1.4383	.50873	16.543	.0089	1.5642	-.20585
#3	-.16010	-.34836	.91498	16.547	.1382	1.9013	-.69087
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Fail	Chk Pass	Chk Pass	Chk Pass
High Limit				10.000			
Low Limit				-10.000			

Elem	V_2924	Zn2062
Units	ppb	ppb
Avg	**.17061**	**.61134**
Stddev	.17614	.01556
%RSD	103.24	2.5450
#1	-.03169	.62738
#2	.28997	.61031
#3	.25355	.59631
Check ?	Chk Pass	Chk Pass
High Limit		
Low Limit		

Int. Std.	Sc1880	Sc3613	Sc3613-2
Units	Cts/S	Cts/S	Cts/S
Avg	2631.6	778250.	46236.
Stddev	11.2	5320.	32.
%RSD	.42647	.68357	.06854
#1	2638.0	782950.	46202.
#2	2638.1	779320.	46264.
#3	2618.6	772470.	46243.

Sample Name: 1J06014-BS1 Acquired: 10/10/2011 18:06:34 Type: QC
Method: DuoEnviroMethodNEW(v2432) Mode: CONC Corr. Factor: 1.000000
User: rburr Custom ID1: Custom ID2: Custom ID3:
Comment: LCSS100611E 1g->200ml

Elem	Ag3280	Al3961	As1890	As1972	B_2496	Ba2335	Be3130	Ca3179
Units	ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppm
Avg	**245.90**	**2148.7**	**255.95**	**282.70**	**928.64**	**2173.4**	**51.345**	**5.0739**
Stddev	1.51	6.0	.37	1.72	6.49	1.8	.150	.0177
%RSD	.61281	.27995	.14626	.60911	.69936	.08363	.29179	.34977
#1	247.27	2155.5	256.38	284.13	936.10	2174.4	51.256	5.0610
#2	244.28	2144.1	255.71	280.79	924.25	2171.3	51.518	5.0941
#3	246.14	2146.6	255.75	283.19	925.58	2174.4	51.260	5.0665
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value								
Range								

Elem	Cd2144	Cd2288	Co2286	Cr2677	Cu2199	Cu3247	Fe2611	K_7664
Units	ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppm
Avg	**137.04**	**134.45**	**566.84**	**214.70**	**256.0**	**275.40**	**1085.2**	**5.0939**
Stddev	.58	.29	.53	.93	1.8	1.82	4.3	.0142
%RSD	.42052	.21769	.09406	.43547	.7213	.65960	.39575	.27837
#1	137.06	134.35	567.44	215.02	256.6	275.74	1085.2	5.0962
#2	136.46	134.22	566.41	213.65	254.0	273.43	1080.8	5.0787
#3	137.61	134.78	566.68	215.43	257.5	277.01	1089.4	5.1068
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value								
Range								

Elem	Mg2790	Mn2576	Mo2020	Na5895	Ni2316	Pb2203	Sb2068	Se1960
Units	ppm	ppb	ppb	ppm	ppb	ppb	ppb	ppb
Avg	**4.8954**	**514.14**	**1084.6**	**4.8922**	**534.98**	**275.28**	**279.72**	**253.92**
Stddev	.0115	2.89	3.4	.0115	.94	.97	1.55	1.33
%RSD	.23565	.56180	.31713	.23425	.17491	.35089	.55306	.52536
#1	4.9025	517.27	1082.7	4.9051	534.27	274.16	279.72	252.38
#2	4.9016	511.58	1082.5	4.8832	534.62	275.82	278.18	254.68
#3	4.8821	513.56	1088.6	4.8883	536.04	275.85	281.27	254.70
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value								
Range								

Sample Name: 1J06014-BS1 Acquired: 10/10/2011 18:06:34 Type: QC
Method: DuoEnviroMethodNEW(v2432) Mode: CONC Corr. Factor: 1.000000
User: rburr Custom ID1: Custom ID2: Custom ID3:
Comment: LCSS100611E 1g->200ml

Elem	Sn1899	Sr4215	Ti3349	Tl1908	V_2924	Zn2062
Units	ppb	ppb	ppb	ppb	ppb	ppb
Avg	1118.0	1059.	1076.2	254.85	514.99	553.11
Stddev	1.5	3.	3.6	.60	2.95	.89
%RSD	.13330	.2724	.33052	.23362	.57346	.16048
#1	1116.7	1056.	1072.8	254.52	517.98	553.13
#2	1117.6	1062.	1079.9	254.49	512.08	552.21
#3	1119.6	1059.	1075.9	255.54	514.91	553.99
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value						
Range						

Int. Std.	Sc1880	Sc3613	Sc3613-2
Units	Cts/S	Cts/S	Cts/S
Avg	2562.7	780820.	46596.
Stddev	3.2	3100.	147.
%RSD	.12498	.39703	.31486
#1	2559.1	778180.	46644.
#2	2565.2	784230.	46432.
#3	2563.7	780060.	46713.

Sample Name: 1109191-01 Acquired: 10/10/2011 18:12:53 Type: Unk
Method: DuoEnviroMethodNEW(v2432) Mode: CONC Corr. Factor: 1.000000
User: rburr Custom ID1: Custom ID2: Custom ID3:
Comment: TETRA

Elem	Ag3280	Al3961	As1890	As1972	B_2496	Ba2335	Be3130	Ca3179
Units	ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppm
Avg	**-.27505**	**5392.8**	**3.0137**	**3.9583**	**13.688**	**21.978**	**.63567**	**157.43**
Stddev	.16356	15.0	.4909	1.5602	.749	.099	.03482	.80
%RSD	59.464	.27907	16.289	39.416	5.4707	.44865	5.4784	.50614
#1	-.09715	5406.4	3.4987	4.6616	14.539	21.929	.61733	157.58
#2	-.41890	5376.6	3.0252	5.0430	13.392	21.913	.67583	156.58
#3	-.30911	5395.4	2.5171	2.1702	13.132	22.092	.61384	158.15

Elem	Cd2144	Cd2288	Co2286	Cr2677	Cu2199	Cu3247	Fe2611	K_7664
Units	ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppm
Avg	**.30774**	**.45777**	**2.6122**	**8.3984**	**4.930**	**5.2003**	**7340.1**	**.77980**
Stddev	.02305	.09695	.1254	.1140	.748	.1952	8.7	.00120
%RSD	7.4906	21.179	4.8003	1.3568	15.16	3.7543	.11845	.15443
#1	.29365	.53457	2.5966	8.3594	5.718	4.9974	7330.0	.78093
#2	.33434	.48991	2.4954	8.3090	4.842	5.3868	7345.0	.77853
#3	.29523	.34883	2.7447	8.5267	4.230	5.2167	7345.2	.77994

Elem	Mg2790	Mn2576	Mo2020	Na5895	Ni2316	Pb2203	Sb2068	Se1960
Units	ppm	ppb	ppb	ppm	ppb	ppb	ppb	ppb
Avg	**75.951**	**257.91**	**2.9633**	**1.0652**	**7.5959**	**18.350**	**-.12850**	**.41167**
Stddev	.212	.61	.0841	.0115	.2118	.656	1.3242	.82812
%RSD	.27916	.23766	2.8389	1.0818	2.7889	3.5743	1030.5	201.16
#1	76.094	257.97	3.0071	1.0532	7.8049	17.912	-.83519	-.54121
#2	75.707	257.26	2.8664	1.0762	7.6013	19.104	-.94939	.81888
#3	76.051	258.49	3.0165	1.0660	7.3813	18.035	1.3991	.95733

Elem	Sn1899	Sr4215	Ti3349	Tl1908	V_2924	Zn2062
Units	ppb	ppb	ppb	ppb	ppb	ppb
Avg	**16.991**	**212.8**	**99.277**	**1.0040**	**26.935**	**28.274**
Stddev	.292	.1	.282	.1891	.277	.085
%RSD	1.7168	.0492	.28360	18.833	1.0269	.29928
#1	16.712	212.9	99.509	.79018	27.250	28.287
#2	16.968	212.7	99.359	1.0726	26.732	28.184
#3	17.294	212.7	98.964	1.1492	26.822	28.351

Sample Name: 1109191-01 Acquired: 10/10/2011 18:12:53 Type: Unk
Method: DuoEnviroMethodNEW(v2432) Mode: CONC Corr. Factor: 1.000000
User: rburr Custom ID1: Custom ID2: Custom ID3:
Comment: TETRA

Int. Std.	Sc1880	Sc3613	Sc3613-2
Units	Cts/S	Cts/S	Cts/S
Avg	2360.2	729280.	45237.
Stddev	11.6	2509.	221.
%RSD	.49129	.34406	.48768
#1	2366.8	727080.	44993.
#2	2367.0	732010.	45423.
#3	2346.8	728760.	45296.

Sample Name: 1109191-02 Acquired: 10/10/2011 18:17:29 Type: Unk
Method: DuoEnviroMethodNEW(v2432) Mode: CONC Corr. Factor: 1.000000
User: rburr Custom ID1: Custom ID2: Custom ID3:
Comment: TETRA

Elem	Ag3280	Al3961	As1890	As1972	B_2496	Ba2335	Be3130	Ca3179
Units	ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppm
Avg	**-.32468**	**5122.8**	**2.5791**	**5.0852**	**14.052**	**53.949**	**.80167**	**198.88**
Stddev	.22834	5.5	.2650	3.1945	.096	.246	.04792	1.77
%RSD	70.329	.10810	10.273	62.819	.68002	.45594	5.9770	.89225
#1	-.07580	5121.3	2.8848	7.8654	14.027	53.666	.85505	197.75
#2	-.37372	5118.2	2.4162	1.5956	13.971	54.064	.76236	200.93
#3	-.52451	5129.0	2.4362	5.7947	14.157	54.116	.78761	197.98

Elem	Cd2144	Cd2288	Co2286	Cr2677	Cu2199	Cu3247	Fe2611	K_7664
Units	ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppm
Avg	**.29074**	**.37584**	**3.6603**	**8.6801**	**4.517**	**4.4308**	**26092.**	**.83778**
Stddev	.04573	.03134	.1102	.2102	1.172	.2969	32.	.01611
%RSD	15.731	8.3391	3.0102	2.4213	25.94	6.7012	.12097	1.9234
#1	.33512	.35094	3.7834	8.9226	5.684	4.7301	26094.	.81925
#2	.24376	.41104	3.5710	8.5673	3.340	4.4261	26060.	.84856
#3	.29334	.36556	3.6266	8.5505	4.525	4.1363	26123.	.84551

Elem	Mg2790	Mn2576	Mo2020	Na5895	Ni2316	Pb2203	Sb2068	Se1960
Units	ppm	ppb	ppb	ppm	ppb	ppb	ppb	ppb
Avg	**95.892**	**691.03**	**2.1829**	**1.1557**	**7.1544**	**9.4226**	**.94184**	**.25657**
Stddev	.238	6.02	.1494	.0027	.1787	.1583	.56965	.93491
%RSD	.24810	.87125	6.8453	.23287	2.4975	1.6798	60.482	364.39
#1	96.166	695.76	2.0129	1.1570	6.9612	9.4511	1.3270	1.0548
#2	95.757	684.25	2.2933	1.1575	7.1884	9.2521	.28748	-.77197
#3	95.751	693.07	2.2424	1.1526	7.3137	9.5648	1.2110	.48687

Elem	Sn1899	Sr4215	Ti3349	Tl1908	V_2924	Zn2062
Units	ppb	ppb	ppb	ppb	ppb	ppb
Avg	**16.504**	**243.3**	**117.71**	**2.1747**	**23.098**	**22.180**
Stddev	.305	.4	.35	.2271	.345	.129
%RSD	1.8486	.1541	.29511	10.443	1.4928	.58164
#1	16.632	243.3	117.95	1.9184	23.324	22.032
#2	16.156	242.9	117.31	2.2549	22.701	22.235
#3	16.725	243.7	117.88	2.3509	23.268	22.272

Sample Name: 1109191-02 Acquired: 10/10/2011 18:17:29 Type: Unk
Method: DuoEnviroMethodNEW(v2432) Mode: CONC Corr. Factor: 1.000000
User: rburr Custom ID1: Custom ID2: Custom ID3:
Comment: TETRA

Int. Std.	Sc1880	Sc3613	Sc3613-2
Units	Cts/S	Cts/S	Cts/S
Avg	2329.4	711430.	44043.
Stddev	11.7	6745.	244.
%RSD	.50337	.94808	.55483
#1	2341.6	705210.	43767.
#2	2328.5	718600.	44232.
#3	2318.2	710490.	44132.

Sample Name: 1J06014-MS1 Acquired: 10/10/2011 18:22:07 Type: Unk
Method: DuoEnviroMethodNEW(v2432) Mode: CONC Corr. Factor: 1.000000
User: rburr Custom ID1: Custom ID2: Custom ID3:
Comment: TETRA

Elem	Ag3280	Al3961	As1890	As1972	B_2496	Ba2335	Be3130	Ca3179
Units	ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppm
Avg	**258.67**	**9658.3**	**284.44**	**308.39**	**1026.7**	**2294.7**	**54.934**	**220.15**
Stddev	1.73	13.1	2.93	2.95	7.7	14.8	.056	2.29
%RSD	.66832	.13515	1.0308	.95786	.74715	.64316	.10238	1.0414
#1	257.18	9644.4	282.64	309.33	1018.6	2289.9	54.873	217.53
#2	260.57	9670.2	282.85	305.08	1033.9	2282.9	54.984	221.79
#3	258.27	9660.3	287.82	310.76	1027.5	2311.3	54.946	221.13

Elem	Cd2144	Cd2288	Co2286	Cr2677	Cu2199	Cu3247	Fe2611	K_7664
Units	ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppm
Avg	**143.29**	**147.49**	**579.16**	**227.56**	**268.6**	**283.76**	**10468.**	**6.3609**
Stddev	.71	1.16	4.27	1.99	2.1	2.60	24.	.0088
%RSD	.49258	.78344	.73696	.87601	.7796	.91541	.23156	.13756
#1	143.02	146.94	577.93	225.80	267.0	281.38	10444.	6.3623
#2	142.77	146.72	575.64	229.73	271.0	286.53	10468.	6.3515
#3	144.10	148.82	583.90	227.16	267.8	283.38	10492.	6.3688

Elem	Mg2790	Mn2576	Mo2020	Na5895	Ni2316	Pb2203	Sb2068	Se1960
Units	ppm	ppb	ppb	ppm	ppb	ppb	ppb	ppb
Avg	**102.41**	**972.92**	**1155.6**	**6.5854**	**551.41**	**288.45**	**271.86**	**275.17**
Stddev	.20	6.58	7.1	.0206	3.23	1.69	2.22	.43
%RSD	.19362	.67651	.61730	.31239	.58584	.58572	.81596	.15633
#1	102.22	966.60	1152.1	6.5616	550.15	287.42	270.77	275.40
#2	102.62	979.74	1150.9	6.5970	549.00	287.53	270.39	274.67
#3	102.38	972.43	1163.8	6.5975	555.08	290.40	274.41	275.43

Elem	Sn1899	Sr4215	Ti3349	Tl1908	V_2924	Zn2062
Units	ppb	ppb	ppb	ppb	ppb	ppb
Avg	**1150.7**	**1391.**	**1215.0**	**255.07**	**564.96**	**589.42**
Stddev	7.7	3.	3.3	1.10	4.69	3.16
%RSD	.66615	.2358	.26915	.43022	.82942	.53628
#1	1147.1	1394.	1218.6	254.17	560.58	588.96
#2	1145.5	1388.	1212.3	254.75	569.90	586.51
#3	1159.5	1391.	1214.0	256.29	564.40	592.78

Sample Name: 1J06014-MS1 Acquired: 10/10/2011 18:22:07 Type: Unk
Method: DuoEnviroMethodNEW(v2432) Mode: CONC Corr. Factor: 1.000000
User: rburr Custom ID1: Custom ID2: Custom ID3:
Comment: TETRA

Int. Std.	Sc1880	Sc3613	Sc3613-2
Units	Cts/S	Cts/S	Cts/S
Avg	2278.1	715020.	44619.
Stddev	10.1	5020.	297.
%RSD	.44490	.70200	.66541
#1	2283.6	718710.	44923.
#2	2284.3	709300.	44329.
#3	2266.4	717050.	44605.

Sample Name: 1J06014-MSD1 Acquired: 10/10/2011 18:26:33 Type: Unk
Method: DuoEnviroMethodNEW(v2432) Mode: CONC Corr. Factor: 1.000000
User: rburr Custom ID1: Custom ID2: Custom ID3:
Comment: TETRA

Elem	Ag3280	Al3961	As1890	As1972	B_2496	Ba2335	Be3130	Ca3179
Units	ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppm
Avg	**241.02**	**9187.3**	**261.46**	**288.07**	**945.27**	**2142.1**	**50.215**	**183.91**
Stddev	1.38	21.8	2.51	2.30	5.94	14.8	.176	3.92
%RSD	.57414	.23713	.96125	.79717	.62883	.69152	.35113	2.1319
#1	239.43	9162.4	259.98	289.20	945.41	2140.6	50.115	187.94
#2	241.92	9203.1	260.04	285.43	951.15	2128.1	50.111	183.67
#3	241.71	9196.3	264.37	289.58	939.26	2157.6	50.419	180.11

Elem	Cd2144	Cd2288	Co2286	Cr2677	Cu2199	Cu3247	Fe2611	K_7664
Units	ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppm
Avg	**134.09**	**137.65**	**542.91**	**210.97**	**248.3**	**266.63**	**9493.3**	**5.9259**
Stddev	.91	.87	3.64	1.19	1.0	1.93	23.1	.0437
%RSD	.67711	.63471	.67102	.56303	.3966	.72425	.24332	.73706
#1	133.74	137.62	542.88	209.62	248.1	264.43	9470.2	5.8858
#2	133.40	136.79	539.29	211.85	249.4	267.44	9493.4	5.9195
#3	135.12	138.53	546.57	211.44	247.4	268.03	9516.4	5.9724

Elem	Mg2790	Mn2576	Mo2020	Na5895	Ni2316	Pb2203	Sb2068	Se1960
Units	ppm	ppb	ppb	ppm	ppb	ppb	ppb	ppb
Avg	**89.032**	**902.27**	**1087.0**	**5.9519**	**514.06**	**272.03**	**249.18**	**258.85**
Stddev	.051	4.92	8.0	.0084	3.45	2.03	3.76	2.71
%RSD	.05751	.54544	.73263	.14191	.67166	.74600	1.5093	1.0481
#1	89.073	900.51	1083.8	5.9537	512.67	271.60	246.02	256.54
#2	88.974	907.83	1081.1	5.9593	511.52	270.25	248.18	258.16
#3	89.047	898.47	1096.1	5.9427	518.00	274.24	253.34	261.84

Elem	Sn1899	Sr4215	Ti3349	Tl1908	V_2924	Zn2062
Units	ppb	ppb	ppb	ppb	ppb	ppb
Avg	**1077.0**	**1332.**	**1127.7**	**240.31**	**520.12**	**552.92**
Stddev	6.2	8.	6.1	1.43	2.53	4.51
%RSD	.57898	.5941	.54036	.59498	.48569	.81590
#1	1075.6	1327.	1123.1	240.20	518.40	551.88
#2	1071.5	1327.	1125.4	238.94	523.02	549.01
#3	1083.8	1341.	1134.6	241.79	518.95	557.86

Sample Name: 1J06014-MSD1 Acquired: 10/10/2011 18:26:33 Type: Unk
Method: DuoEnviroMethodNEW(v2432) Mode: CONC Corr. Factor: 1.000000
User: rburr Custom ID1: Custom ID2: Custom ID3:
Comment: TETRA

Int. Std.	Sc1880	Sc3613	Sc3613-2
Units	Cts/S	Cts/S	Cts/S
Avg	2299.9	726000.	45100.
Stddev	14.9	4029.	4.
%RSD	.64611	.55502	.00791
#1	2301.8	729660.	45097.
#2	2313.7	721680.	45099.
#3	2284.1	726660.	45104.

Sample Name: 1J06014-PS1 Acquired: 10/10/2011 18:30:59 Type: Unk
Method: DuoEnviroMethodNEW(v2432) Mode: CONC Corr. Factor: 1.000000
User: rburr Custom ID1: Custom ID2: Custom ID3:
Comment: TETRA

Elem	Ag3280	Al3961	As1890	As1972	B_2496	Ba2335	Be3130	Ca3179
Units	ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppm
Avg	**257.24**	**7245.5**	**285.45**	**311.70**	**1006.3**	**2291.7**	**53.445**	**187.92**
Stddev	.96	27.7	1.76	2.18	2.2	7.0	.362	2.12
%RSD	.37244	.38233	.61561	.70059	.22172	.30328	.67654	1.1280
#1	258.34	7275.4	283.53	310.68	1008.6	2286.5	53.855	189.68
#2	256.76	7220.8	285.83	310.22	1004.1	2289.0	53.172	185.56
#3	256.62	7240.3	286.98	314.21	1006.3	2299.6	53.306	188.51

Elem	Cd2144	Cd2288	Co2286	Cr2677	Cu2199	Cu3247	Fe2611	K_7664
Units	ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppm
Avg	**143.30**	**147.14**	**573.84**	**220.13**	**262.5**	**282.56**	**26221.**	**6.0909**
Stddev	.63	.60	1.52	1.06	2.4	1.14	51.	.0305
%RSD	.43908	.40466	.26434	.47992	.9053	.40465	.19261	.50110
#1	142.93	146.94	573.60	221.34	264.0	283.88	26278.	6.1257
#2	142.95	146.67	572.45	219.38	259.8	282.01	26183.	6.0687
#3	144.03	147.81	575.46	219.68	263.8	281.80	26202.	6.0782

Elem	Mg2790	Mn2576	Mo2020	Na5895	Ni2316	Pb2203	Sb2068	Se1960
Units	ppm	ppb	ppb	ppm	ppb	ppb	ppb	ppb
Avg	**95.646**	**1149.6**	**1180.2**	**6.2061**	**546.11**	**288.35**	**299.97**	**277.62**
Stddev	.254	3.9	5.0	.0089	1.71	1.75	1.95	1.59
%RSD	.26541	.33505	.42042	.14304	.31272	.60523	.65044	.57117
#1	95.924	1153.9	1177.0	6.2121	544.50	287.46	302.22	278.66
#2	95.426	1146.5	1177.7	6.2104	545.91	287.23	298.70	275.80
#3	95.588	1148.4	1185.9	6.1959	547.90	290.36	299.01	278.41

Elem	Sn1899	Sr4215	Ti3349	Tl1908	V_2924	Zn2062
Units	ppb	ppb	ppb	ppb	ppb	ppb
Avg	**1172.4**	**1309.**	**1194.8**	**258.07**	**546.23**	**585.87**
Stddev	5.8	7.	4.8	.44	2.22	2.48
%RSD	.49591	.5161	.40434	.17241	.40729	.42308
#1	1168.9	1317.	1200.1	257.91	548.71	583.49
#2	1169.2	1305.	1190.6	257.73	544.40	585.70
#3	1179.1	1306.	1193.7	258.58	545.58	588.44

Sample Name: 1J06014-PS1 Acquired: 10/10/2011 18:30:59 Type: Unk
Method: DuoEnviroMethodNEW(v2432) Mode: CONC Corr. Factor: 1.000000
User: rburr Custom ID1: Custom ID2: Custom ID3:
Comment: TETRA

Int. Std.	Sc1880	Sc3613	Sc3613-2
Units	Cts/S	Cts/S	Cts/S
Avg	2303.6	731570.	45368.
Stddev	5.1	2338.	158.
%RSD	.22113	.31963	.34907
#1	2309.0	728890.	45240.
#2	2302.9	732670.	45545.
#3	2298.9	733160.	45318.

Sample Name: 1J06014-DUP1@5X Acquired: 10/10/2011 18:36:26 Type: Unk
Method: DuoEnviroMethodNEW(v2432) Mode: CONC Corr. Factor: 1.000000
User: rburr Custom ID1: Custom ID2: Custom ID3:
Comment: TETRA X5

Elem	Ag3280	Al3961	As1890	As1972	B_2496	Ba2335	Be3130	Ca3179
Units	ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppm
Avg	**-.09832**	**1045.6**	**-.49926**	**.46310**	**4.9259**	**11.259**	**.16673**	**39.790**
Stddev	.06705	4.8	.73326	.96585	.5644	.145	.03504	.212
%RSD	68.195	.45574	146.87	208.56	11.457	1.2891	21.014	.53386
#1	-.02799	1050.9	-.17609	.60618	5.1760	11.425	.20690	39.562
#2	-.10546	1044.0	.01690	1.3494	4.2797	11.196	.15078	39.825
#3	-.16152	1041.8	-1.3386	-.56630	5.3220	11.156	.14251	39.983

Elem	Cd2144	Cd2288	Co2286	Cr2677	Cu2199	Cu3247	Fe2611	K_7664
Units	ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppm
Avg	**.07793**	**-.04551**	**1.0407**	**1.8373**	**1.194**	**.27604**	**5298.9**	**.14395**
Stddev	.04296	.17028	.1681	.1584	.762	.10516	20.9	.00499
%RSD	55.120	374.13	16.157	8.6217	63.79	38.098	.39393	3.4683
#1	.11593	.06649	1.1356	1.9168	.4025	.38616	5276.1	.14293
#2	.08655	.03843	1.1400	1.9403	1.922	.17666	5303.3	.14937
#3	.03132	-.24147	.84659	1.6549	1.258	.26529	5317.2	.13954

Elem	Mg2790	Mn2576	Mo2020	Na5895	Ni2316	Pb2203	Sb2068	Se1960
Units	ppm	ppb	ppb	ppm	ppb	ppb	ppb	ppb
Avg	**19.222**	**141.77**	**3.1307**	**.22360**	**2.1783**	**1.9297**	**.33493**	**.20223**
Stddev	.084	.63	.4068	.00497	.0220	.7085	.69621	.29525
%RSD	.43765	.44369	12.994	2.2231	1.0094	36.716	207.87	146.00
#1	19.140	141.47	3.5672	.22060	2.1532	1.1653	-.38740	.05790
#2	19.218	142.50	3.0626	.22934	2.1943	2.0594	1.0017	.54188
#3	19.308	141.36	2.7622	.22087	2.1873	2.5644	.39048	.00690

Elem	Sn1899	Sr4215	Ti3349	Tl1908	V_2924	Zn2062
Units	ppb	ppb	ppb	ppb	ppb	ppb
Avg	**4.1976**	**49.02**	**24.822**	**.94084**	**5.1537**	**4.6699**
Stddev	.3601	.05	.223	.65977	.1684	.0456
%RSD	8.5797	.1028	.89696	70.125	3.2667	.97724
#1	4.2782	49.06	24.766	1.6909	5.3333	4.7176
#2	4.5107	49.05	25.068	.45046	4.9994	4.6654
#3	3.8040	48.96	24.633	.68113	5.1286	4.6267

Sample Name: 1J06014-DUP1@5X Acquired: 10/10/2011 18:36:26 Type: Unk
Method: DuoEnviroMethodNEW(v2432) Mode: CONC Corr. Factor: 1.000000
User: rburr Custom ID1: Custom ID2: Custom ID3:
Comment: TETRA X5

Int. Std.	Sc1880	Sc3613	Sc3613-2
Units	Cts/S	Cts/S	Cts/S
Avg	2516.6	731880.	45092.
Stddev	1.9	2366.	164.
%RSD	.07624	.32333	.36430
#1	2516.2	731930.	45254.
#2	2518.7	729480.	44926.
#3	2515.0	734220.	45097.

Sample Name: 1109191-03 Acquired: 10/10/2011 18:40:56 Type: Unk
Method: DuoEnviroMethodNEW(v2432) Mode: CONC Corr. Factor: 1.000000
User: rburr Custom ID1: Custom ID2: Custom ID3:
Comment: TETRA

Elem	Ag3280	Al3961	As1890	As1972	B_2496	Ba2335	Be3130	Ca3179
Units	ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppm
Avg	**.21727**	**1771.4**	**1.0880**	**4.3784**	**4.8420**	**12.956**	**.36728**	**56.489**
Stddev	.19639	3.2	.4869	1.3972	.2046	.212	.02476	.308
%RSD	90.391	.18167	44.754	31.912	4.2249	1.6339	6.7403	.54509
#1	.42963	1771.2	1.3861	5.2365	4.9723	13.200	.35305	56.824
#2	.17999	1774.7	1.3518	2.7662	4.6062	12.818	.39586	56.424
#3	.04219	1768.3	.52610	5.1326	4.9476	12.851	.35291	56.218

Elem	Cd2144	Cd2288	Co2286	Cr2677	Cu2199	Cu3247	Fe2611	K_7664
Units	ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppm
Avg	**.14419**	**.18085**	**1.3003**	**5.6707**	**1.413**	**.11889**	**3010.3**	**.21498**
Stddev	.02794	.16138	.0244	.0709	.497	.04009	8.0	.02408
%RSD	19.375	89.234	1.8783	1.2501	35.16	33.724	.26418	11.200
#1	.14804	.27835	1.3138	5.6517	1.678	.07267	3001.2	.18888
#2	.11453	-.00543	1.3150	5.6112	1.721	.13957	3013.9	.21973
#3	.17000	.26962	1.2721	5.7491	.8399	.14441	3015.8	.23632

Elem	Mg2790	Mn2576	Mo2020	Na5895	Ni2316	Pb2203	Sb2068	Se1960
Units	ppm	ppb	ppb	ppm	ppb	ppb	ppb	ppb
Avg	**27.178**	**150.40**	**2.0656**	**.32467**	**2.7425**	**3.5190**	**.95371**	**.76922**
Stddev	.076	1.16	.1003	.01018	.0538	.5289	.85812	1.1365
%RSD	.28088	.77153	4.8557	3.1359	1.9629	15.029	89.976	147.75
#1	27.263	151.13	2.0475	.31313	2.8003	2.9188	1.7593	-.27463
#2	27.157	149.06	1.9756	.32851	2.6937	3.7213	1.0506	1.9799
#3	27.114	151.01	2.1737	.33237	2.7336	3.9168	.05126	.60238

Elem	Sn1899	Sr4215	Ti3349	Tl1908	V_2924	Zn2062
Units	ppb	ppb	ppb	ppb	ppb	ppb
Avg	**16.403**	**75.82**	**107.94**	**.51131**	**8.9175**	**6.8517**
Stddev	.182	.19	1.24	.47467	.3256	.0947
%RSD	1.1102	.2519	1.1528	92.835	3.6508	1.3821
#1	16.491	76.02	109.37	.09701	9.0484	6.9533
#2	16.194	75.64	107.15	1.0292	8.5469	6.8359
#3	16.524	75.78	107.30	.40767	9.1573	6.7659

Sample Name: 1109191-03 Acquired: 10/10/2011 18:40:56 Type: Unk
Method: DuoEnviroMethodNEW(v2432) Mode: CONC Corr. Factor: 1.000000
User: rburr Custom ID1: Custom ID2: Custom ID3:
Comment: TETRA

Int. Std.	Sc1880	Sc3613	Sc3613-2
Units	Cts/S	Cts/S	Cts/S
Avg	2463.4	734520.	44522.
Stddev	14.0	5248.	137.
%RSD	.56801	.71448	.30764
#1	2478.2	729440.	44366.
#2	2461.6	739920.	44578.
#3	2450.4	734190.	44623.

Sample Name: 1109191-04 Acquired: 10/10/2011 18:45:28 Type: Unk
Method: DuoEnviroMethodNEW(v2432) Mode: CONC Corr. Factor: 1.000000
User: rburr Custom ID1: Custom ID2: Custom ID3:
Comment: TETRA

Elem	Ag3280	Al3961	As1890	As1972	B_2496	Ba2335	Be3130
Units	ppb	ppb	ppb	ppb	ppb	ppb	ppb
Avg	**-.92964**	**17626.**	**6.8422**	**9.8715**	**33.280**	**86.726**	**1.7039**
Stddev	.11214	17.	.1668	1.8361	.197	.492	.0382
%RSD	12.063	.09439	2.4371	18.600	.59306	.56783	2.2388
#1	-.86044	17642.	7.0347	7.9246	33.145	86.458	1.7169
#2	-1.0590	17609.	6.7435	11.572	33.507	86.426	1.7339
#3	-.86946	17628.	6.7484	10.118	33.189	87.294	1.6610

Elem	Ca3179	Cd2144	Cd2288	Co2286	Cr2677	Cu2199	Cu3247
Units	ppm	ppb	ppb	ppb	ppb	ppb	ppb
Avg	F **550.56**	**.78214**	**.87875**	**9.1280**	**35.184**	**24.72**	**29.223**
Stddev	6.30	.03628	.07104	.1009	.408	1.18	.332
%RSD	1.1445	4.6387	8.0845	1.1048	1.1606	4.781	1.1356
#1	549.01	.74080	.95862	9.1798	34.733	24.84	28.840
#2	557.48	.79694	.85504	9.0118	35.529	25.84	29.395
#3	545.17	.80868	.82260	9.1924	35.289	23.48	29.433

Elem	Fe2611	K_7664	Mg2790	Mn2576	Mo2020	Na5895	Ni2316
Units	ppb	ppm	ppm	ppb	ppb	ppm	ppb
Avg	**38093.**	**3.2727**	**125.96**	**1077.9**	**5.5685**	**1.8204**	**32.934**
Stddev	130.	.0081	.98	5.1	.0489	.0104	.242
%RSD	.34091	.24780	.78179	.47721	.87767	.57008	.73599
#1	38223.	3.2766	127.03	1072.0	5.6091	1.8280	32.931
#2	38092.	3.2780	125.75	1079.9	5.5142	1.8247	32.693
#3	37963.	3.2633	125.10	1081.7	5.5821	1.8086	33.178

Elem	Pb2203	Sb2068	Se1960	Sn1899	Sr4215	Ti3349	Tl1908
Units	ppb	ppb	ppb	ppb	ppb	ppb	ppb
Avg	**81.544**	**.74053**	**-.85435**	**18.606**	**978.8**	**223.70**	**1.6702**
Stddev	1.245	.68383	1.4763	.505	5.1	1.70	.6463
%RSD	1.5265	92.344	172.80	2.7141	.5239	.76071	38.692
#1	80.664	.01356	-1.0200	18.149	984.7	225.62	2.3906
#2	81.001	1.3710	-2.2409	18.520	975.9	223.12	1.4790
#3	82.968	.83705	.69779	19.148	975.8	222.37	1.1412

Sample Name: 1109191-04 Acquired: 10/10/2011 18:45:28 Type: Unk
Method: DuoEnviroMethodNEW(v2432) Mode: CONC Corr. Factor: 1.000000
User: rburr Custom ID1: Custom ID2: Custom ID3:
Comment: TETRA

Elem	V_2924	Zn2062
Units	ppb	ppb
Avg	**92.938**	**74.087**
Stddev	.834	.488
%RSD	.89684	.65820
#1	91.979	73.724
#2	93.486	73.894
#3	93.349	74.641

Int. Std.	Sc1880	Sc3613	Sc3613-2
Units	Cts/S	Cts/S	Cts/S
Avg	2141.4	695630.	44069.
Stddev	12.4	4870.	245.
%RSD	.57832	.70007	.55612
#1	2149.5	701210.	43824.
#2	2147.6	692220.	44069.
#3	2127.2	693450.	44315.

Sample Name: 1109191-05 Acquired: 10/10/2011 18:50:03 Type: Unk
Method: DuoEnviroMethodNEW(v2432) Mode: CONC Corr. Factor: 1.000000
User: rburr Custom ID1: Custom ID2: Custom ID3:
Comment: TETRA

Elem	Ag3280	Al3961	As1890	As1972	B_2496	Ba2335	Be3130	Ca3179
Units	ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppm
Avg	**-.24849**	**5323.6**	**2.7579**	**3.1090**	**13.554**	**30.067**	**.64425**	**163.79**
Stddev	.17538	13.9	.9715	2.2664	.274	.060	.01923	2.61
%RSD	70.579	.26202	35.226	72.899	2.0191	.19892	2.9852	1.5918
#1	-.44350	5307.5	1.9057	4.9456	13.240	30.029	.62682	165.38
#2	-.19830	5332.2	2.5522	3.8052	13.679	30.037	.66488	165.20
#3	-.10368	5331.1	3.8158	.57615	13.743	30.136	.64104	160.78

Elem	Cd2144	Cd2288	Co2286	Cr2677	Cu2199	Cu3247	Fe2611	K_7664
Units	ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppm
Avg	**.24419**	**.27236**	**2.8693**	**9.3401**	**3.627**	**3.9425**	**8239.0**	**.81582**
Stddev	.04048	.06960	.0857	.1366	.595	.1973	26.4	.00503
%RSD	16.578	25.554	2.9850	1.4621	16.41	5.0038	.32015	.61607
#1	.22888	.19403	2.9473	9.1843	2.943	3.7149	8208.5	.81355
#2	.21361	.29598	2.8829	9.3974	3.904	4.0499	8255.1	.81232
#3	.29010	.32708	2.7777	9.4387	4.032	4.0629	8253.3	.82158

Elem	Mg2790	Mn2576	Mo2020	Na5895	Ni2316	Pb2203	Sb2068	Se1960
Units	ppm	ppb	ppb	ppm	ppb	ppb	ppb	ppb
Avg	**70.248**	**289.92**	**2.2132**	**1.1042**	**8.1655**	**14.163**	**-.45018**	**-.76628**
Stddev	.216	2.41	.0707	.0065	.1667	.624	.79043	1.1993
%RSD	.30757	.83207	3.1942	.58975	2.0415	4.4083	175.58	156.51
#1	70.067	287.84	2.1364	1.0992	8.2352	13.503	.36814	-1.6181
#2	70.487	292.57	2.2756	1.1116	7.9752	14.243	-.50930	.60526
#3	70.191	289.36	2.2277	1.1018	8.2860	14.744	-1.2094	-1.2860

Elem	Sn1899	Sr4215	Ti3349	Tl1908	V_2924	Zn2062
Units	ppb	ppb	ppb	ppb	ppb	ppb
Avg	**16.826**	**255.0**	**105.83**	**.58175**	**20.824**	**18.946**
Stddev	.116	.4	.53	1.1105	.326	.079
%RSD	.69148	.1626	.49621	190.90	1.5658	.41466
#1	16.903	254.5	105.24	-.62662	20.475	18.862
#2	16.883	255.3	106.24	.81422	21.122	18.958
#3	16.692	255.1	106.02	1.5576	20.875	19.017

Sample Name: 1109191-05 Acquired: 10/10/2011 18:50:03 Type: Unk
Method: DuoEnviroMethodNEW(v2432) Mode: CONC Corr. Factor: 1.000000
User: rburr Custom ID1: Custom ID2: Custom ID3:
Comment: TETRA

Int. Std.	Sc1880	Sc3613	Sc3613-2
Units	Cts/S	Cts/S	Cts/S
Avg	2294.1	720940.	44876.
Stddev	7.9	7284.	274.
%RSD	.34536	1.0104	.61004
#1	2301.5	729020.	44934.
#2	2295.1	714890.	44577.
#3	2285.7	718910.	45115.

Sample Name: 1109191-06 Acquired: 10/10/2011 18:54:42 Type: Unk
Method: DuoEnviroMethodNEW(v2432) Mode: CONC Corr. Factor: 1.000000
User: rburr Custom ID1: Custom ID2: Custom ID3:
Comment: TETRA

Elem	Ag3280	Al3961	As1890	As1972	B_2496	Ba2335	Be3130	Ca3179
Units	ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppm
Avg	**-.31790**	**5317.4**	**2.9482**	**2.3078**	**12.783**	**33.331**	**.66228**	**152.94**
Stddev	.13496	11.7	.8305	.5423	.536	.134	.01223	.97
%RSD	42.452	.21949	28.170	23.497	4.1892	.40060	1.8473	.63158
#1	-.40269	5314.4	2.1940	2.3698	12.242	33.216	.64959	152.05
#2	-.16228	5330.3	3.8383	2.8164	12.796	33.298	.66323	153.97
#3	-.38874	5307.6	2.8123	1.7372	13.313	33.477	.67401	152.80

Elem	Cd2144	Cd2288	Co2286	Cr2677	Cu2199	Cu3247	Fe2611	K_7664
Units	ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppm
Avg	**.21586**	**.21826**	**3.7263**	**10.538**	**3.965**	**3.0268**	**9053.5**	**.76578**
Stddev	.03953	.13330	.0981	.209	.742	.1387	6.0	.00986
%RSD	18.313	61.074	2.6323	1.9864	18.71	4.5825	.06603	1.2879
#1	.24256	.28829	3.6200	10.488	4.692	3.0922	9051.4	.75916
#2	.17045	.06454	3.8133	10.768	3.994	3.1207	9048.9	.77712
#3	.23457	.30194	3.7456	10.358	3.209	2.8675	9060.3	.76107

Elem	Mg2790	Mn2576	Mo2020	Na5895	Ni2316	Pb2203	Sb2068	Se1960
Units	ppm	ppb	ppb	ppm	ppb	ppb	ppb	ppb
Avg	**67.934**	**390.41**	**1.8123**	**.95866**	**7.7161**	**12.558**	**-.13973**	**-.27892**
Stddev	.200	2.05	.0213	.01160	.1966	.514	.64938	.28034
%RSD	.29436	.52632	1.1766	1.2104	2.5473	4.0966	464.74	100.51
#1	67.704	392.23	1.8350	.96624	7.4898	13.023	.08884	-.08551
#2	68.063	390.80	1.8092	.94530	7.8444	12.006	.36447	-.60042
#3	68.036	388.18	1.7927	.96443	7.8140	12.647	-.87250	-.15082

Elem	Sn1899	Sr4215	Ti3349	Tl1908	V_2924	Zn2062
Units	ppb	ppb	ppb	ppb	ppb	ppb
Avg	**16.420**	**224.5**	**114.54**	**-.43697**	**19.315**	**18.656**
Stddev	.173	.6	.11	.96822	.113	.113
%RSD	1.0543	.2759	.09404	221.58	.58663	.60577
#1	16.619	224.1	114.54	-.76909	19.254	18.527
#2	16.306	225.2	114.65	-1.1954	19.246	18.702
#3	16.334	224.1	114.44	.65361	19.446	18.738

Sample Name: 1109191-06 Acquired: 10/10/2011 18:54:42 Type: Unk
Method: DuoEnviroMethodNEW(v2432) Mode: CONC Corr. Factor: 1.000000
User: rburr Custom ID1: Custom ID2: Custom ID3:
Comment: TETRA

Int. Std.	Sc1880	Sc3613	Sc3613-2
Units	Cts/S	Cts/S	Cts/S
Avg	2291.1	727380.	45062.
Stddev	11.9	4148.	254.
%RSD	.52107	.57025	.56356
#1	2302.8	724820.	45180.
#2	2291.6	725160.	44771.
#3	2278.9	732170.	45236.

Sample Name: SEQ-CCV Acquired: 10/10/2011 19:18:11 Type: QC
Method: DuoEnviroMethodNEW(v2432) Mode: CONC Corr. Factor: 1.000000
User: rburr Custom ID1: Custom ID2: Custom ID3:
Comment: 11J0158

Elem	Ag3280	Al3961	As1890	As1972	B_2496	Ba2335	Be3130
Units	ppb	ppb	ppb	ppb	ppb	ppb	ppb
Avg	**479.76**	**10158.**	**1057.6**	F **1160.1**	**994.03**	**1060.3**	**968.02**
Stddev	2.01	11.	6.8	2.8	1.97	2.7	3.15
%RSD	.41987	.11116	.63844	.24014	.19854	.25479	.32501
#1	477.51	10155.	1055.3	1159.4	992.24	1059.7	964.42
#2	480.39	10170.	1052.4	1157.8	993.70	1058.0	970.27
#3	481.39	10148.	1065.2	1163.2	996.15	1063.3	969.35
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Fail	Chk Pass	Chk Pass	Chk Pass
Value				1000.0			
Range				±100.00			

Elem	Ca3179	Cd2144	Cd2288	Co2286	Cr2677	Cu2199	Cu3247
Units	ppm	ppb	ppb	ppb	ppb	ppb	ppb
Avg	**49.773**	**1095.9**	**1094.3**	F **1130.5**	**1049.9**	**995.5**	**1091.5**
Stddev	.131	4.6	5.3	2.8	3.0	3.3	5.1
%RSD	.26328	.42059	.48207	.24504	.28412	.3340	.46416
#1	49.625	1095.8	1093.6	1129.6	1046.4	992.7	1087.0
#2	49.820	1091.4	1089.4	1128.3	1051.4	994.5	1090.5
#3	49.875	1100.6	1099.9	1133.6	1051.8	999.2	1097.0
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Fail	Chk Pass	Chk Pass	Chk Pass
Value				1000.0			
Range				±100.00			

Elem	Fe2611	K_7664	Mg2790	Mn2576	Mo2020	Na5895	Ni2316
Units	ppb	ppm	ppm	ppb	ppb	ppm	ppb
Avg	**9860.9**	**9.9705**	**46.539**	**1000.8**	**1075.7**	**46.915**	**1040.3**
Stddev	18.2	.0125	.130	1.9	4.9	.042	4.4
%RSD	.18463	.12495	.28022	.18730	.45205	.08953	.41872
#1	9840.8	9.9844	46.401	999.09	1073.2	46.867	1040.6
#2	9865.6	9.9603	46.660	1000.5	1072.6	46.932	1035.8
#3	9876.3	9.9666	46.556	1002.8	1081.3	46.945	1044.6
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value							
Range							

Sample Name: SEQ-CCV Acquired: 10/10/2011 19:18:11 Type: QC
Method: DuoEnviroMethodNEW(v2432) Mode: CONC Corr. Factor: 1.000000
User: rburr Custom ID1: Custom ID2: Custom ID3:
Comment: 11J0158

Elem	Pb2203	Sb2068	Se1960	Sn1899	Sr4215	Ti3349	Tl1908
Units	ppb	ppb	ppb	ppb	ppb	ppb	ppb
Avg	**1079.6**	F **1175.6**	**1094.2**	**1072.2**	**1065.**	**1067.9**	**1013.9**
Stddev	2.7	5.7	3.6	3.6	.	1.4	4.2
%RSD	.25066	.48324	.32640	.33376	.0257	.13500	.41067
#1	1080.2	1173.1	1096.0	1072.2	1065.	1066.8	1014.5
#2	1076.7	1171.6	1090.1	1068.7	1065.	1067.4	1009.4
#3	1082.0	1182.1	1096.5	1075.8	1065.	1069.5	1017.7
Check ?	Chk Pass	Chk Fail	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value		1000.0					
Range		±100.00					

Elem	V_2924	Zn2062
Units	ppb	ppb
Avg	**1021.0**	**1098.7**
Stddev	3.0	5.0
%RSD	.29637	.45168
#1	1017.8	1096.0
#2	1021.4	1095.7
#3	1023.8	1104.5
Check ?	Chk Pass	Chk Pass
Value		
Range		

Int. Std.	Sc1880	Sc3613	Sc3613-2
Units	Cts/S	Cts/S	Cts/S
Avg	2360.2	727340.	44579.
Stddev	6.7	2222.	220.
%RSD	.28510	.30552	.49246
#1	2364.4	729840.	44801.
#2	2363.8	726570.	44362.
#3	2352.5	725600.	44572.

Sample Name: SEQ-CCB Acquired: 10/10/2011 19:25:26 Type: QC
Method: DuoEnviroMethodNEW(v2432) Mode: CONC Corr. Factor: 1.000000
User: rburr Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Ag3280	Al3961	As1890	As1972	B_2496	Ba2335	Be3130	Ca3179
Units	ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppm
Avg	**-.08844**	**.33011**	**-.40203**	**.93518**	**.40370**	**.37702**	**.02744**	**.00548**
Stddev	.23773	3.8111	.54985	.58919	.31099	.05767	.00559	.00312
%RSD	268.80	1154.5	136.77	63.002	77.036	15.295	20.359	56.961
#1	.02421	-2.4308	-.55032	1.6091	.64815	.33815	.02578	.00206
#2	.07202	-1.2572	-.86253	.67882	.05366	.44328	.02288	.00619
#3	-.36155	4.6783	.20676	.51760	.50928	.34964	.03367	.00817
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit								
Low Limit								

Elem	Cd2144	Cd2288	Co2286	Cr2677	Cu2199	Cu3247	Fe2611	K_7664
Units	ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppm
Avg	**.25989**	**-.21966**	**.43150**	**.12895**	**.6723**	**-1.1697**	**1.6676**	**-.03302**
Stddev	.02906	.05364	.08434	.09956	.6772	.2288	.5665	.00842
%RSD	11.183	24.420	19.545	77.209	100.7	19.564	33.969	25.507
#1	.23520	-.16041	.50407	.13492	-.1053	-1.4149	1.0554	-.02447
#2	.25255	-.26493	.45146	.22540	1.133	-1.1325	2.1731	-.04131
#3	.29192	-.23362	.33898	.02654	.9896	-.96176	1.7744	-.03328
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit								
Low Limit								

Elem	Mg2790	Mn2576	Mo2020	Na5895	Ni2316	Pb2203	Sb2068	Se1960
Units	ppm	ppb	ppb	ppm	ppb	ppb	ppb	ppb
Avg	**.00596**	**.12435**	**1.0793**	**-.00438**	**1.1082**	**.80981**	**.86083**	**.27867**
Stddev	.00906	.00692	.0371	.00223	.1221	.86946	.69300	1.3824
%RSD	152.08	5.5613	3.4359	50.801	11.015	107.37	80.503	496.09
#1	.01238	.12377	1.0381	-.00489	1.0191	-.10009	.45630	-1.0487
#2	.00990	.11774	1.0898	-.00631	1.2473	.89730	1.6610	.17445
#3	-.00441	.13153	1.1100	-.00195	1.0582	1.6322	.46518	1.7103
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit								
Low Limit								

Sample Name: SEQ-CCB Acquired: 10/10/2011 19:25:26 Type: QC
Method: DuoEnviroMethodNEW(v2432) Mode: CONC Corr. Factor: 1.000000
User: rburr Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Sn1899	Sr4215	Ti3349	Tl1908	V_2924	Zn2062
Units	ppb	ppb	ppb	ppb	ppb	ppb
Avg	**.73746**	**.0845**	**.07497**	**1.1681**	**.10956**	**2.0575**
Stddev	.26956	.0956	.19633	.1198	.04845	.1762
%RSD	36.553	113.2	261.88	10.257	44.228	8.5650
#1	.66295	.1110	.29626	1.0714	.05469	1.9640
#2	1.0364	-.0216	.00702	1.1308	.12751	2.2608
#3	.51299	.1640	-.07836	1.3021	.14647	1.9478
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit						
Low Limit						

Int. Std.	Sc1880	Sc3613	Sc3613-2
Units	Cts/S	Cts/S	Cts/S
Avg	2563.2	749770.	45203.
Stddev	6.0	3050.	68.
%RSD	.23523	.40674	.15022
#1	2567.1	751230.	45275.
#2	2566.2	751820.	45194.
#3	2556.2	746270.	45140.

Sample Name: SEQ-CCV Acquired: 10/10/2011 20:24:01 Type: QC
Method: DuoEnviroMethodNEW(v2432) Mode: CONC Corr. Factor: 1.000000
User: rburr Custom ID1: Custom ID2: Custom ID3:
Comment: 11J0158

Elem	Ag3280	Al3961	As1890	As1972	B_2496	Ba2335	Be3130
Units	ppb	ppb	ppb	ppb	ppb	ppb	ppb
Avg	**486.33**	**10184.**	**1060.4**	F **1133.3**	**1030.3**	**1048.1**	**996.73**
Stddev	5.70	17.	5.1	2.0	9.1	2.8	3.68
%RSD	1.1718	.16523	.48080	.17577	.88096	.26668	.36885
#1	480.10	10166.	1055.8	1132.2	1021.9	1046.3	994.16
#2	491.28	10200.	1059.5	1132.1	1039.9	1046.7	995.08
#3	487.60	10187.	1065.9	1135.6	1029.1	1051.3	1000.9
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Fail	Chk Pass	Chk Pass	Chk Pass
Value				1000.0			
Range				±100.00			

Elem	Ca3179	Cd2144	Cd2288	Co2286	Cr2677	Cu2199	Cu3247
Units	ppm	ppb	ppb	ppb	ppb	ppb	ppb
Avg	**51.118**	**1098.5**	**1091.1**	F **1103.9**	**1053.9**	**1018.**	**1078.4**
Stddev	.238	3.1	4.0	2.4	12.3	12.	12.8
%RSD	.46494	.28002	.36287	.21835	1.1659	1.169	1.1869
#1	51.098	1096.8	1088.8	1102.2	1040.4	1004.	1064.3
#2	50.891	1096.6	1088.9	1102.7	1064.4	1026.	1089.2
#3	51.365	1102.0	1095.7	1106.6	1056.7	1023.	1081.7
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Fail	Chk Pass	Chk Pass	Chk Pass
Value				1000.0			
Range				±100.00			

Elem	Fe2611	K_7664	Mg2790	Mn2576	Mo2020	Na5895	Ni2316
Units	ppb	ppm	ppm	ppb	ppb	ppm	ppb
Avg	**10083.**	**10.038**	**47.843**	**1025.8**	**1070.2**	**47.985**	**1041.7**
Stddev	39.	.009	.122	10.6	4.2	.054	3.4
%RSD	.38426	.08921	.25480	1.0327	.39536	.11241	.32635
#1	10041.	10.030	47.827	1015.2	1067.4	47.943	1040.1
#2	10094.	10.037	47.730	1036.4	1068.0	47.965	1039.3
#3	10116.	10.048	47.972	1025.6	1075.0	48.046	1045.6
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value							
Range							

Sample Name: SEQ-CCV Acquired: 10/10/2011 20:24:01 Type: QC
Method: DuoEnviroMethodNEW(v2432) Mode: CONC Corr. Factor: 1.000000
User: rburr Custom ID1: Custom ID2: Custom ID3:
Comment: 11J0158

Elem	Pb2203	Sb2068	Se1960	Sn1899	Sr4215	Ti3349	Tl1908
Units	ppb	ppb	ppb	ppb	ppb	ppb	ppb
Avg	**1066.3**	F **1142.1**	**1086.9**	**1061.5**	**1068.**	**1073.6**	**1022.6**
Stddev	1.1	4.6	5.4	2.7	2.	3.7	4.0
%RSD	.10426	.40236	.49844	.25808	.1996	.34032	.39402
#1	1065.6	1139.5	1082.2	1060.2	1069.	1075.1	1018.8
#2	1065.7	1139.4	1085.6	1059.7	1065.	1069.4	1022.3
#3	1067.5	1147.4	1092.8	1064.7	1069.	1076.2	1026.8
Check ?	Chk Pass	Chk Fail	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value		1000.0					
Range		±100.00					

Elem	V_2924	Zn2062
Units	ppb	ppb
Avg	**1039.8**	**1086.7**
Stddev	11.1	2.3
%RSD	1.0717	.21049
#1	1027.9	1084.8
#2	1049.9	1086.1
#3	1041.6	1089.3
Check ?	Chk Pass	Chk Pass
Value		
Range		

Int. Std.	Sc1880	Sc3613	Sc3613-2
Units	Cts/S	Cts/S	Cts/S
Avg	2404.9	724800.	44898.
Stddev	4.6	8974.	89.
%RSD	.19056	1.2381	.19721
#1	2410.2	734630.	44921.
#2	2402.9	717040.	44972.
#3	2401.7	722730.	44799.

Sample Name: SEQ-CCB Acquired: 10/10/2011 20:31:16 Type: QC
Method: DuoEnviroMethodNEW(v2432) Mode: CONC Corr. Factor: 1.000000
User: rburr Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Ag3280	Al3961	As1890	As1972	B_2496	Ba2335	Be3130	Ca3179
Units	ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppm
Avg	**.13070**	**2.3500**	**-.15876**	**.13557**	**.32628**	**.22929**	**.05496**	**.00424**
Stddev	.11287	2.4641	1.0989	.41340	.35415	.05517	.01748	.00304
%RSD	86.359	104.85	692.14	304.94	108.54	24.060	31.815	71.578
#1	.00195	5.1945	-.26596	-.00133	.28399	.28722	.06981	.00104
#2	.21263	.98932	.98978	-.19201	.69968	.22326	.03569	.00708
#3	.17752	.86632	-1.2001	.60005	-.00482	.17738	.05938	.00459
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit								
Low Limit								

Elem	Cd2144	Cd2288	Co2286	Cr2677	Cu2199	Cu3247	Fe2611	K_7664
Units	ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppm
Avg	**.15585**	**-.14747**	**.23919**	**.18003**	**.0242**	**-1.0338**	**2.9971**	**-.01141**
Stddev	.03137	.08559	.04088	.10891	.7531	.0349	2.0490	.00819
%RSD	20.131	58.035	17.090	60.498	3107.	3.3719	68.364	71.810
#1	.16253	-.06497	.20905	.29436	-.8216	-1.0410	.83556	-.01869
#2	.18334	-.23584	.28572	.07750	.2722	-1.0645	3.2448	-.00253
#3	.12167	-.14161	.22280	.16822	.6221	-.99590	4.9110	-.01302
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit								
Low Limit								

Elem	Mg2790	Mn2576	Mo2020	Na5895	Ni2316	Pb2203	Sb2068	Se1960
Units	ppm	ppb	ppb	ppm	ppb	ppb	ppb	ppb
Avg	**.00755**	**.08542**	**.86644**	**-.00634**	**.92612**	**.12477**	**-.49187**	**.30014**
Stddev	.00103	.03867	.17828	.00314	.07707	.21354	.41011	1.2260
%RSD	13.605	45.265	20.577	49.525	8.3222	171.15	83.377	408.49
#1	.00640	.05184	.98713	-.00331	.83760	-.08775	-.96042	.96988
#2	.00837	.12770	.95053	-.00612	.96246	.12274	-.19813	1.0455
#3	.00788	.07673	.66166	-.00958	.97832	.33932	-.31707	-1.1149
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit								
Low Limit								

Sample Name: SEQ-CCB Acquired: 10/10/2011 20:31:16 Type: QC
Method: DuoEnviroMethodNEW(v2432) Mode: CONC Corr. Factor: 1.000000
User: rburr Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Sn1899	Sr4215	Ti3349	Tl1908	V_2924	Zn2062
Units	ppb	ppb	ppb	ppb	ppb	ppb
Avg	**.58951**	**.1719**	**.10170**	**.22469**	**.28426**	**.13152**
Stddev	.18954	.0668	.66294	.42625	.18668	.05845
%RSD	32.151	38.85	651.86	189.70	65.673	44.441
#1	.65042	.0948	-.65101	.63448	.43364	.12649
#2	.37701	.2125	.59869	.25590	.34418	.19233
#3	.74111	.2085	.35742	-.21630	.07498	.07575
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit						
Low Limit						

Int. Std.	Sc1880	Sc3613	Sc3613-2
Units	Cts/S	Cts/S	Cts/S
Avg	2575.5	740380.	44048.
Stddev	16.4	4706.	172.
%RSD	.63533	.63560	.39022
#1	2581.7	735920.	44085.
#2	2587.9	739930.	44198.
#3	2557.0	745300.	43860.

Sample Name: SEQ-CRL Acquired: 10/10/2011 20:51:40 Type: QC
Method: DuoEnviroMethodNEW(v2432) Mode: CONC Corr. Factor: 1.000000
User: rburr Custom ID1: Custom ID2: Custom ID3:
Comment: RLSTD A

Elem	Ag3280	Al3961	As1890	As1972	B_2496	Ba2335	Be3130
Units	ppb	ppb	ppb	ppb	ppb	ppb	ppb
Avg	**1.9536**	**115.39**	**6.2564**	**6.4584**	**22.666**	**11.268**	**2.0622**
Stddev	.2082	4.23	1.2930	1.5756	.134	.029	.0315
%RSD	10.657	3.6641	20.666	24.395	.59195	.25930	1.5293
#1	1.8823	116.79	4.7635	5.0879	22.512	11.268	2.0282
#2	2.1881	110.63	7.0137	6.1075	22.732	11.240	2.0677
#3	1.7905	118.73	6.9920	8.1799	22.755	11.298	2.0906
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	None	Chk Pass	Chk Pass
Value							
Range							

Elem	Ca3179	Cd2144	Cd2288	Co2286	Cr2677	Cu2199	Cu3247
Units	ppm	ppb	ppb	ppb	ppb	ppb	ppb
Avg	**2.1127**	**2.2680**	**1.8877**	**11.380**	**4.5411**	**8.455**	**7.4373**
Stddev	.0042	.0583	.0974	.034	.0942	.428	.1267
%RSD	.19915	2.5714	5.1617	.29515	2.0750	5.065	1.7041
#1	2.1167	2.2455	1.9074	11.343	4.6487	8.610	7.2940
#2	2.1083	2.2243	1.9738	11.410	4.5013	7.971	7.4835
#3	2.1131	2.3342	1.7819	11.386	4.4734	8.784	7.5346
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value							
Range							

Elem	Fe2611	K_7664	Mg2790	Mn2576	Mo2020	Na5895	Ni2316
Units	ppb	ppm	ppm	ppb	ppb	ppm	ppb
Avg	**64.942**	**3.0783**	**3.0008**	**6.9946**	**10.693**	**2.9089**	**7.1921**
Stddev	1.419	.0089	.0081	.2071	.111	.0116	.1402
%RSD	2.1855	.28801	.27073	2.9610	1.0423	.39877	1.9489
#1	66.318	3.0691	2.9914	6.7917	10.631	2.9007	7.0312
#2	63.483	3.0791	3.0058	6.9865	10.626	2.9038	7.2878
#3	65.024	3.0868	3.0052	7.2057	10.822	2.9222	7.2574
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value							
Range							

Sample Name: SEQ-CRL Acquired: 10/10/2011 20:51:40 Type: QC
Method: DuoEnviroMethodNEW(v2432) Mode: CONC Corr. Factor: 1.000000
User: rburr Custom ID1: Custom ID2: Custom ID3:
Comment: RLSTD A

Elem	Pb2203	Sb2068	Se1960	Sn1899	Sr4215	Ti3349	Tl1908
Units	ppb	ppb	ppb	ppb	ppb	ppb	ppb
Avg	F **3.6997**	**9.4983**	**6.5929**	**21.897**	**6.548**	**11.559**	F **4.9281**
Stddev	.7017	.7879	1.0947	.118	.043	.605	.8135
%RSD	18.965	8.2955	16.604	.53974	.6628	5.2382	16.507
#1	3.6388	9.0789	7.2955	21.890	6.504	11.182	4.3449
#2	3.0305	9.0088	5.3316	21.783	6.547	11.236	4.5820
#3	4.4299	10.407	7.1517	22.019	6.591	12.257	5.8574
Check ?	Chk Fail	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Fail
Value	3.0000						4.0000
Range	±.60000						±.80000

Elem	V_2924	Zn2062
Units	ppb	ppb
Avg	**10.639**	**10.917**
Stddev	.209	.090
%RSD	1.9636	.82158
#1	10.782	10.845
#2	10.735	10.889
#3	10.399	11.018
Check ?	Chk Pass	Chk Pass
Value		
Range		

Int. Std.	Sc1880	Sc3613	Sc3613-2
Units	Cts/S	Cts/S	Cts/S
Avg	2572.2	749770.	44661.
Stddev	9.2	5391.	179.
%RSD	.35938	.71902	.39976
#1	2577.6	755880.	44608.
#2	2577.4	745670.	44860.
#3	2561.5	747770.	44515.

Sample Name: SEQ-CRL Acquired: 10/10/2011 20:56:10 Type: QC
Method: DuoEnviroMethodNEW(v2432) Mode: CONC Corr. Factor: 1.000000
User: rburr Custom ID1: Custom ID2: Custom ID3:
Comment: RLSTD 1

Elem	Ag3280	Al3961	As1890	As1972	B_2496	Ba2335	Be3130	Ca3179
Units	ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppm
Avg	**2.0299**	**213.91**	**5.7204**	**4.8365**	**30.714**	**107.24**	**5.0831**	**.00068**
Stddev	.1655	9.74	1.1784	.5730	.179	.71	.0519	.00111
%RSD	8.1536	4.5513	20.600	11.847	.58307	.66421	1.0201	161.98
#1	2.2177	213.24	5.2011	4.5283	30.559	106.70	5.1087	-.00020
#2	1.9666	223.96	4.8909	5.4976	30.672	106.99	5.0234	.00032
#3	1.9053	204.53	7.0693	4.4836	30.910	108.05	5.1171	.00193
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	None	Chk Pass	None
Value								
Range								

Elem	Cd2144	Cd2288	Co2286	Cr2677	Cu2199	Cu3247	Fe2611	K_7664
Units	ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppm
Avg	**5.5415**	**5.0615**	**14.292**	**5.6595**	**10.81**	**9.9871**	**109.38**	**-.02727**
Stddev	.0779	.0945	.083	.0484	.63	.1461	1.94	.02030
%RSD	1.4054	1.8663	.57823	.85476	5.790	1.4627	1.7742	74.445
#1	5.5218	5.0219	14.202	5.6630	11.51	9.9296	108.06	-.04708
#2	5.4754	4.9933	14.311	5.6094	10.64	10.153	108.46	-.00652
#3	5.6274	5.1694	14.364	5.7059	10.29	9.8785	111.61	-.02819
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	None
Value								
Range								

Elem	Mg2790	Mn2576	Mo2020	Na5895	Ni2316	Pb2203	Sb2068	Se1960
Units	ppm	ppb	ppb	ppm	ppb	ppb	ppb	ppb
Avg	**-.00106**	**16.715**	**15.559**	**-.01679**	**11.527**	**3.5575**	**17.102**	**5.2466**
Stddev	.00124	.501	.125	.00165	.173	.6090	.905	.8002
%RSD	116.79	2.9993	.80445	9.8414	1.5018	17.120	5.2891	15.252
#1	-.00022	16.206	15.545	-.01550	11.471	3.5654	17.888	6.1483
#2	-.00248	17.208	15.440	-.01621	11.388	2.9446	17.305	4.6211
#3	-.00048	16.730	15.690	-.01865	11.721	4.1625	16.114	4.9705
Check ?	None	None	Chk Pass	None	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value								
Range								

Sample Name: SEQ-CRL Acquired: 10/10/2011 20:56:10 Type: QC
Method: DuoEnviroMethodNEW(v2432) Mode: CONC Corr. Factor: 1.000000
User: rburr Custom ID1: Custom ID2: Custom ID3:
Comment: RLSTD 1

Elem	Sn1899	Sr4215	Ti3349	Tl1908	V_2924	Zn2062
Units	ppb	ppb	ppb	ppb	ppb	ppb
Avg	**33.096**	**.1574**	**15.970**	**9.0472**	**13.246**	**21.704**
Stddev	.177	.0470	.913	.3670	.280	.140
%RSD	.53349	29.84	5.7174	4.0566	2.1147	.64563
#1	32.926	.1135	16.778	9.1295	13.394	21.731
#2	33.279	.1517	16.152	9.3660	13.421	21.553
#3	33.084	.2069	14.979	8.6460	12.923	21.829
Check ?	None	None	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value						
Range						

Int. Std.	Sc1880	Sc3613	Sc3613-2
Units	Cts/S	Cts/S	Cts/S
Avg	2591.7	745780.	44876.
Stddev	11.9	3593.	205.
%RSD	.45754	.48182	.45703
#1	2604.8	749570.	44663.
#2	2588.6	745360.	44893.
#3	2581.7	742420.	45072.

Sample Name: SEQ-CCV Acquired: 10/10/2011 21:06:12 Type: QC
Method: DuoEnviroMethodNEW(v2432) Mode: CONC Corr. Factor: 1.000000
User: rburr Custom ID1: Custom ID2: Custom ID3:
Comment: 11J0158

Elem	Ag3280	Al3961	As1890	As1972	B_2496	Ba2335	Be3130
Units	ppb	ppb	ppb	ppb	ppb	ppb	ppb
Avg	**477.99**	**10176.**	**1056.8**	F **1157.1**	**996.74**	**1061.2**	**979.18**
Stddev	1.64	6.	3.9	8.3	3.69	6.8	1.65
%RSD	.34287	.05647	.36827	.71560	.37010	.64355	.16811
#1	476.64	10170.	1053.9	1152.8	994.70	1058.7	979.21
#2	479.81	10177.	1055.1	1151.8	1001.0	1056.0	977.52
#3	477.53	10181.	1061.2	1166.6	994.52	1068.9	980.82
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Fail	Chk Pass	Chk Pass	Chk Pass
Value				1000.0			
Range				±100.00			

Elem	Ca3179	Cd2144	Cd2288	Co2286	Cr2677	Cu2199	Cu3247
Units	ppm	ppb	ppb	ppb	ppb	ppb	ppb
Avg	**50.228**	**1095.0**	**1093.9**	F **1130.1**	**1045.4**	**993.2**	**1085.0**
Stddev	.249	5.7	6.1	6.8	3.2	4.1	2.4
%RSD	.49601	.51934	.55336	.60399	.31004	.4140	.21939
#1	50.257	1092.5	1090.4	1128.8	1043.5	988.9	1086.5
#2	49.965	1091.1	1090.4	1124.1	1049.2	997.0	1086.2
#3	50.461	1101.6	1100.9	1137.5	1043.7	993.7	1082.2
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Fail	Chk Pass	Chk Pass	Chk Pass
Value				1000.0			
Range				±100.00			

Elem	Fe2611	K_7664	Mg2790	Mn2576	Mo2020	Na5895	Ni2316
Units	ppb	ppm	ppm	ppb	ppb	ppm	ppb
Avg	**9937.2**	**9.9927**	**47.104**	**1001.9**	**1074.5**	**47.308**	**1040.2**
Stddev	18.2	.0040	.171	4.6	7.8	.036	6.0
%RSD	.18284	.04047	.36404	.46348	.72296	.07536	.57972
#1	9918.2	9.9922	47.126	999.64	1070.0	47.270	1037.8
#2	9939.0	9.9890	46.922	1007.2	1070.1	47.340	1035.7
#3	9954.4	9.9970	47.263	998.83	1083.5	47.315	1047.0
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value							
Range							

Sample Name: SEQ-CCV Acquired: 10/10/2011 21:06:12 Type: QC
Method: DuoEnviroMethodNEW(v2432) Mode: CONC Corr. Factor: 1.000000
User: rburr Custom ID1: Custom ID2: Custom ID3:
Comment: 11J0158

Elem	Pb2203	Sb2068	Se1960	Sn1899	Sr4215	Ti3349	Tl1908
Units	ppb	ppb	ppb	ppb	ppb	ppb	ppb
Avg	**1079.8**	F **1172.4**	**1092.7**	**1069.3**	**1066.**	**1069.6**	**1013.7**
Stddev	6.8	9.7	6.7	5.6	3.	4.7	3.4
%RSD	.62924	.82940	.61716	.52362	.2427	.44070	.33648
#1	1078.4	1171.8	1091.5	1066.6	1066.	1068.4	1013.0
#2	1073.8	1163.0	1086.6	1065.6	1063.	1065.6	1010.6
#3	1087.2	1182.4	1099.9	1075.8	1068.	1074.8	1017.4
Check ?	Chk Pass	Chk Fail	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value		1000.0					
Range		±100.00					

Elem	V_2924	Zn2062
Units	ppb	ppb
Avg	**1019.9**	**1096.3**
Stddev	4.8	7.0
%RSD	.46589	.63814
#1	1017.5	1093.5
#2	1025.4	1091.2
#3	1016.9	1104.3
Check ?	Chk Pass	Chk Pass
Value		
Range		

Int. Std.	Sc1880	Sc3613	Sc3613-2
Units	Cts/S	Cts/S	Cts/S
Avg	2368.2	731660.	44767.
Stddev	12.1	2655.	275.
%RSD	.50911	.36282	.61503
#1	2370.1	734470.	44895.
#2	2379.2	729200.	44955.
#3	2355.3	731310.	44451.

Sample Name: SEQ-CCB Acquired: 10/10/2011 21:13:28 Type: QC
Method: DuoEnviroMethodNEW(v2432) Mode: CONC Corr. Factor: 1.000000
User: rburr Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Ag3280	Al3961	As1890	As1972	B_2496	Ba2335	Be3130
Units	ppb	ppb	ppb	ppb	ppb	ppb	ppb
Avg	**.07036**	**-2.9604**	**-1.0237**	**-.62535**	**.16001**	**.28615**	**.01545**
Stddev	.01870	6.7221	1.2263	1.0047	.17212	.08178	.04667
%RSD	26.579	227.07	119.80	160.66	107.56	28.579	301.97
#1	.05093	-3.8781	-2.4298	.13956	.16779	.37674	-.00517
#2	.08823	-9.1765	-.46502	-1.7631	-.01586	.26396	-.01735
#3	.07193	4.1734	-.17615	-.25246	.32810	.21776	.06888
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit							
Low Limit							

Elem	Ca3179	Cd2144	Cd2288	Co2286	Cr2677	Cu2199	Cu3247
Units	ppm	ppb	ppb	ppb	ppb	ppb	ppb
Avg	**.00087**	**.19558**	**-.17720**	**.32125**	**.04699**	**-.1797**	F **-1.5316**
Stddev	.00101	.03328	.05677	.12198	.06059	.3227	.1362
%RSD	116.20	17.018	32.039	37.972	128.94	179.5	8.8910
#1	.00052	.23396	-.13987	.44110	.11619	.1687	-1.4442
#2	.00008	.17821	-.24254	.19724	.00349	-.2397	-1.4621
#3	.00201	.17458	-.14920	.32539	.02129	-.4682	-1.6886
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Fail
High Limit							1.5000
Low Limit							-1.5000

Elem	Fe2611	K_7664	Mg2790	Mn2576	Mo2020	Na5895	Ni2316
Units	ppb	ppm	ppm	ppb	ppb	ppm	ppb
Avg	**.47704**	**-.04518**	**.00116**	**.14294**	**.94078**	**-.02162**	**1.1403**
Stddev	1.8764	.02378	.01419	.05426	.12579	.00247	.0969
%RSD	393.33	52.631	1222.2	37.958	13.371	11.427	8.4967
#1	2.6401	-.01984	-.00421	.13262	.82288	-.02131	1.2456
#2	-.71296	-.04869	.01725	.09458	.92625	-.02423	1.0549
#3	-.49598	-.06701	-.00956	.20161	1.0732	-.01931	1.1204
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit							
Low Limit							

Sample Name: SEQ-CCB Acquired: 10/10/2011 21:13:28 Type: QC
Method: DuoEnviroMethodNEW(v2432) Mode: CONC Corr. Factor: 1.000000
User: rburr Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Pb2203	Sb2068	Se1960	Sn1899	Sr4215	Ti3349	Tl1908
Units	ppb	ppb	ppb	ppb	ppb	ppb	ppb
Avg	**.74477**	**.44777**	**-.42027**	**.63228**	**.1541**	**.21430**	**.53259**
Stddev	.42284	.45834	.17040	.10337	.0973	.33810	.21316
%RSD	56.775	102.36	40.546	16.349	63.16	157.77	40.024
#1	1.1826	.14841	-.40639	.55296	.2109	.48085	.76205
#2	.33876	.97542	-.59720	.59469	.0417	-.16600	.49501
#3	.71292	.21949	-.25724	.74918	.2097	.32806	.34072
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit							
Low Limit							

Elem	V_2924	Zn2062
Units	ppb	ppb
Avg	**.13146**	**.28153**
Stddev	.23958	.05172
%RSD	182.24	18.371
#1	-.10988	.24352
#2	.36924	.34043
#3	.13503	.26065
Check ?	Chk Pass	Chk Pass
High Limit		
Low Limit		

Int. Std.	Sc1880	Sc3613	Sc3613-2
Units	Cts/S	Cts/S	Cts/S
Avg	2528.3	746970.	44395.
Stddev	28.1	3940.	340.
%RSD	1.1102	.52741	.76637
#1	2526.8	750470.	44780.
#2	2501.0	747740.	44138.
#3	2557.0	742710.	44266.

Sample Name: SEQ-CCV Acquired: 10/11/2011 8:00:39 Type: QC
Method: DuoEnviroMethodNEW(v2432) Mode: CONC Corr. Factor: 1.000000
User: rburr Custom ID1: Custom ID2: Custom ID3:
Comment: 11J0158

Elem	Ag3280	Al3961	As1890	As1972	B_2496	Ba2335	Be3130
Units	ppb	ppb	ppb	ppb	ppb	ppb	ppb
Avg	**494.58**	**10258.**	**1053.4**	**1047.6**	**1071.9**	**1012.4**	**1069.5**
Stddev	1.97	11.	1.9	5.7	5.0	2.0	2.5
%RSD	.39846	.10459	.17698	.54763	.46710	.19386	.23410
#1	492.33	10264.	1051.5	1041.2	1066.5	1010.3	1066.8
#2	495.97	10245.	1055.2	1049.4	1072.8	1012.8	1069.8
#3	495.45	10264.	1053.7	1052.3	1076.4	1014.2	1071.8
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value							
Range							

Elem	Ca3179	Cd2144	Cd2288	Co2286	Cr2677	Cu2199	Cu3247
Units	ppm	ppb	ppb	ppb	ppb	ppb	ppb
Avg	**53.308**	**1090.4**	**1077.0**	**1026.1**	**1033.6**	**1043.**	**1029.8**
Stddev	.212	1.5	2.2	2.6	5.2	8.	6.8
%RSD	.39838	.13804	.20213	.25378	.50246	.7303	.66313
#1	53.161	1089.1	1074.6	1023.3	1027.7	1035.	1021.9
#2	53.212	1090.1	1077.3	1026.6	1035.5	1047.	1034.4
#3	53.552	1092.1	1079.0	1028.5	1037.6	1049.	1033.1
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value							
Range							

Elem	Fe2611	K_7664	Mg2790	Mn2576	Mo2020	Na5895	Ni2316
Units	ppb	ppm	ppm	ppb	ppb	ppm	ppb
Avg	**10718.**	**10.165**	F **62.726**	**1032.9**	**1045.9**	**52.245**	**1033.8**
Stddev	14.	.003	.151	5.0	3.4	.095	2.7
%RSD	.13270	.02973	.24072	.48196	.32898	.18255	.25837
#1	10706.	10.168	62.699	1027.3	1041.9	52.169	1031.0
#2	10716.	10.165	62.591	1034.3	1048.0	52.352	1034.2
#3	10734.	10.162	62.889	1037.0	1047.8	52.213	1036.3
Check ?	Chk Pass	Chk Pass	Chk Fail	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value			50.000				
Range			±5.0000				

Sample Name: SEQ-CCV Acquired: 10/11/2011 8:00:39 Type: QC
Method: DuoEnviroMethodNEW(v2432) Mode: CONC Corr. Factor: 1.000000
User: rburr Custom ID1: Custom ID2: Custom ID3:
Comment: 11J0158

Elem	Pb2203	Sb2068	Se1960	Sn1899	Sr4215	Ti3349	Tl1908
Units	ppb	ppb	ppb	ppb	ppb	ppb	ppb
Avg	**1016.9**	**1048.0**	**1056.0**	**1026.5**	**1037.**	**1042.5**	**1027.7**
Stddev	4.4	5.6	4.5	2.3	3.	4.2	2.6
%RSD	.43233	.53665	.43041	.22519	.2628	.40383	.24948
#1	1011.9	1041.5	1051.8	1024.1	1035.	1039.4	1025.3
#2	1018.5	1051.3	1055.4	1026.7	1036.	1040.8	1027.3
#3	1020.3	1051.2	1060.8	1028.7	1040.	1047.3	1030.4
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value							
Range							

Elem	V_2924	Zn2062
Units	ppb	ppb
Avg	**1048.3**	**1047.3**
Stddev	3.7	1.3
%RSD	.34887	.12097
#1	1044.2	1046.3
#2	1050.0	1046.9
#3	1050.9	1048.7
Check ?	Chk Pass	Chk Pass
Value		
Range		

Int. Std.	Sc1880	Sc3613	Sc3613-2
Units	Cts/S	Cts/S	Cts/S
Avg	2480.7	721260.	44044.
Stddev	4.1	2947.	387.
%RSD	.16475	.40861	.87964
#1	2485.0	724650.	43943.
#2	2480.1	719870.	44473.
#3	2476.9	719270.	43718.

Sample Name: SEQ-CCB Acquired: 10/11/2011 8:08:48 Type: QC
Method: DuoEnviroMethodNEW(v2432) Mode: CONC Corr. Factor: 1.000000
User: rburr Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Ag3280	Al3961	As1890	As1972	B_2496	Ba2335	Be3130	Ca3179
Units	ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppm
Avg	**.23018**	**.16789**	**.75698**	**-.48946**	**.55991**	**-.00970**	**-.03810**	**-.00021**
Stddev	.55739	4.8076	.31338	1.2710	.46356	.03291	.03491	.00138
%RSD	242.15	2863.5	41.398	259.67	82.792	339.15	91.639	648.03
#1	.28127	-2.0663	.60782	-1.0099	.39676	.02366	-.04218	-.00023
#2	.76026	-3.1161	1.1171	-1.4176	.19999	-.01063	-.07079	.00117
#3	-.35100	5.6861	.54604	.95912	1.0830	-.04214	-.00132	-.00159
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit								
Low Limit								

Elem	Cd2144	Cd2288	Co2286	Cr2677	Cu2199	Cu3247	Fe2611	K_7664
Units	ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppm
Avg	**.01303**	**-.12203**	**.14613**	**-.03716**	**-.3590**	**-.32727**	**-1.0569**	**-.02819**
Stddev	.05377	.06120	.05528	.07647	.4739	.12076	3.3721	.01131
%RSD	412.62	50.157	37.830	205.78	132.0	36.898	319.06	40.113
#1	.06775	-.12097	.18073	-.07849	-.9055	-.28241	2.4217	-.01516
#2	.01108	-.18375	.08237	-.08407	-.0620	-.23536	-4.3113	-.03393
#3	-.03973	-.06136	.17528	.05108	-.1095	-.46403	-1.2810	-.03548
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit								
Low Limit								

Elem	Mg2790	Mn2576	Mo2020	Na5895	Ni2316	Pb2203	Sb2068	Se1960
Units	ppm	ppb	ppb	ppm	ppb	ppb	ppb	ppb
Avg	**.00546**	**.00006**	**.56115**	**-.00736**	**.35519**	**-.40194**	**.68268**	**-.13182**
Stddev	.00867	.01118	.06872	.00359	.20273	.56388	.83632	1.0466
%RSD	158.98	18990.	12.246	48.787	57.075	140.29	122.51	793.93
#1	.00372	-.00453	.61067	-.00928	.22131	-.98211	1.6483	-1.0255
#2	-.00222	.01281	.59009	-.00322	.58843	.14409	.21360	-.38952
#3	.01487	-.00810	.48269	-.00959	.25583	-.36782	.18619	1.0196
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit								
Low Limit								

Sample Name: SEQ-CCB Acquired: 10/11/2011 8:08:48 Type: QC
Method: DuoEnviroMethodNEW(v2432) Mode: CONC Corr. Factor: 1.000000
User: rburr Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Sn1899	Sr4215	Ti3349	Tl1908	V_2924	Zn2062
Units	ppb	ppb	ppb	ppb	ppb	ppb
Avg	**.27641**	**.0112**	**-.15146**	**1.2883**	**.16034**	**.02736**
Stddev	.26914	.0760	.45435	.6637	.07164	.02552
%RSD	97.369	680.4	299.99	51.516	44.680	93.307
#1	.51541	.0720	-.18520	1.6260	.13718	.05097
#2	-.01512	-.0740	-.58799	.52369	.10314	.00027
#3	.32895	.0355	.31883	1.7153	.24069	.03083
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit						
Low Limit						

Int. Std.	Sc1880	Sc3613	Sc3613-2
Units	Cts/S	Cts/S	Cts/S
Avg	2683.1	745260.	43922.
Stddev	5.9	6151.	225.
%RSD	.22018	.82534	.51201
#1	2677.1	738320.	43879.
#2	2683.2	750020.	44165.
#3	2688.9	747460.	43721.

Sample Name: 1109191-04RE1@2X Acquired: 10/11/2011 8:13:21 Type: Unk
Method: DuoEnviroMethodNEW(v2432) Mode: CONC Corr. Factor: 1.000000
User: rburr Custom ID1: Custom ID2: Custom ID3:
Comment: TETRA X2 Ca

Elem	Ag3280	Al3961	As1890	As1972	B_2496	Ba2335	Be3130	Ca3179
Units	ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppm
Avg	**-.58916**	**8996.6**	**4.1889**	**2.9778**	**18.523**	**41.188**	**.87810**	**302.68**
Stddev	.09314	4.2	1.1007	.7474	.471	.258	.02152	2.91
%RSD	15.808	.04652	26.276	25.100	2.5453	.62594	2.4503	.96305
#1	-.67842	8992.9	5.2015	2.4272	18.290	40.944	.85573	299.32
#2	-.49258	9001.1	4.3477	2.6776	19.065	41.163	.89865	304.22
#3	-.59647	8995.8	3.0174	3.8287	18.212	41.458	.87990	304.50

Elem	Cd2144	Cd2288	Co2286	Cr2677	Cu2199	Cu3247	Fe2611	K_7664
Units	ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppm
Avg	**.36970**	**.57189**	**4.2774**	**17.968**	**14.20**	**14.585**	**20677.**	**1.6547**
Stddev	.03566	.08983	.0774	.151	.67	.261	65.	.0166
%RSD	9.6444	15.707	1.8092	.84174	4.703	1.7901	.31318	1.0017
#1	.40943	.66362	4.3579	17.998	13.97	14.645	20616.	1.6579
#2	.34049	.56797	4.2036	17.804	14.95	14.299	20670.	1.6368
#3	.35918	.48409	4.2707	18.102	13.67	14.811	20745.	1.6695

Elem	Mg2790	Mn2576	Mo2020	Na5895	Ni2316	Pb2203	Sb2068	Se1960
Units	ppm	ppb	ppb	ppm	ppb	ppb	ppb	ppb
Avg	**85.052**	**573.65**	**2.6532**	**.96792**	**16.147**	**39.518**	**1.0216**	**.18802**
Stddev	.258	4.11	.0464	.00523	.114	1.250	.3738	1.0467
%RSD	.30390	.71620	1.7503	.53983	.70575	3.1641	36.590	556.66
#1	84.809	571.41	2.6041	.97354	16.274	40.522	.74616	.07380
#2	85.025	571.15	2.6592	.96321	16.055	38.118	1.4471	1.2871
#3	85.323	578.39	2.6964	.96700	16.110	39.916	.87155	-.79683

Elem	Sn1899	Sr4215	Ti3349	Tl1908	V_2924	Zn2062
Units	ppb	ppb	ppb	ppb	ppb	ppb
Avg	**9.1129**	**484.6**	**116.33**	**1.9821**	**48.825**	**35.670**
Stddev	.0721	1.0	.86	.2996	.338	.093
%RSD	.79075	.2043	.73732	15.114	.69241	.26078
#1	9.1828	483.8	116.46	1.6366	49.153	35.595
#2	9.0388	484.3	115.42	2.1399	48.478	35.640
#3	9.1171	485.7	117.12	2.1698	48.844	35.774

Sample Name: 1109191-04RE1@2X Acquired: 10/11/2011 8:13:21 Type: Unk
Method: DuoEnviroMethodNEW(v2432) Mode: CONC Corr. Factor: 1.000000
User: rburr Custom ID1: Custom ID2: Custom ID3:
Comment: TETRA X2 Ca

Int. Std.	Sc1880	Sc3613	Sc3613-2
Units	Cts/S	Cts/S	Cts/S
Avg	2345.3	696500.	43091.
Stddev	3.5	4155.	142.
%RSD	.14972	.59649	.32932
#1	2349.4	697810.	43220.
#2	2343.2	699840.	43114.
#3	2343.4	691840.	42939.

Sample Name: SEQ-CCV Acquired: 10/11/2011 8:19:44 Type: QC
Method: DuoEnviroMethodNEW(v2432) Mode: CONC Corr. Factor: 1.000000
User: rburr Custom ID1: Custom ID2: Custom ID3:
Comment: 11J0158

Elem	Ag3280	Al3961	As1890	As1972	B_2496	Ba2335	Be3130
Units	ppb	ppb	ppb	ppb	ppb	ppb	ppb
Avg	**491.78**	**10278.**	**1054.1**	**1060.6**	**1063.5**	**1013.7**	**1058.6**
Stddev	1.21	33.	6.0	6.0	8.9	3.8	.8
%RSD	.24514	.32517	.57224	.56251	.83828	.37945	.07129
#1	490.95	10312.	1048.2	1060.4	1058.1	1010.2	1059.3
#2	491.22	10275.	1053.8	1054.7	1058.7	1013.1	1058.7
#3	493.16	10245.	1060.2	1066.7	1073.8	1017.9	1057.8
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value							
Range							

Elem	Ca3179	Cd2144	Cd2288	Co2286	Cr2677	Cu2199	Cu3247
Units	ppm	ppb	ppb	ppb	ppb	ppb	ppb
Avg	**52.931**	**1090.8**	**1074.7**	**1032.5**	**1033.1**	**1040.**	**1032.4**
Stddev	.108	3.9	3.9	4.1	5.0	6.	2.9
%RSD	.20393	.35877	.36516	.39577	.47970	.5921	.27804
#1	53.034	1087.8	1071.4	1028.8	1031.8	1037.	1031.1
#2	52.941	1089.4	1073.8	1032.0	1029.0	1036.	1030.4
#3	52.818	1095.2	1079.0	1036.9	1038.6	1047.	1035.7
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value							
Range							

Elem	Fe2611	K_7664	Mg2790	Mn2576	Mo2020	Na5895	Ni2316
Units	ppb	ppm	ppm	ppb	ppb	ppm	ppb
Avg	**10614.**	**10.178**	F **62.740**	**1027.6**	**1048.5**	**51.602**	**1035.1**
Stddev	7.	.023	.052	6.0	4.5	.051	4.2
%RSD	.06567	.22453	.08266	.58195	.43018	.09818	.40234
#1	10622.	10.203	62.721	1024.3	1044.2	51.653	1031.7
#2	10612.	10.169	62.799	1024.1	1048.3	51.602	1033.9
#3	10608.	10.160	62.701	1034.5	1053.2	51.552	1039.8
Check ?	Chk Pass	Chk Pass	Chk Fail	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value			50.000				
Range			±5.0000				

Sample Name: SEQ-CCV Acquired: 10/11/2011 8:19:44 Type: QC
Method: DuoEnviroMethodNEW(v2432) Mode: CONC Corr. Factor: 1.000000
User: rburr Custom ID1: Custom ID2: Custom ID3:
Comment: 11J0158

Elem	Pb2203	Sb2068	Se1960	Sn1899	Sr4215	Ti3349	Tl1908
Units	ppb	ppb	ppb	ppb	ppb	ppb	ppb
Avg	**1021.3**	**1060.9**	**1061.7**	**1035.9**	**1042.**	**1044.7**	**1027.4**
Stddev	2.4	5.4	5.0	3.1	3.	4.6	3.6
%RSD	.23736	.51223	.46916	.30156	.3015	.44175	.35027
#1	1018.6	1056.0	1057.9	1033.4	1044.	1048.8	1024.2
#2	1022.6	1060.1	1059.8	1034.9	1044.	1045.5	1026.9
#3	1022.9	1066.8	1067.3	1039.4	1039.	1039.7	1031.3
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value							
Range							

Elem	V_2924	Zn2062
Units	ppb	ppb
Avg	**1044.6**	**1057.8**
Stddev	5.5	3.2
%RSD	.52331	.30024
#1	1040.8	1055.5
#2	1042.2	1056.5
#3	1050.9	1061.4
Check ?	Chk Pass	Chk Pass
Value		
Range		

Int. Std.	Sc1880	Sc3613	Sc3613-2
Units	Cts/S	Cts/S	Cts/S
Avg	2466.7	720900.	44107.
Stddev	7.6	3125.	23.
%RSD	.30855	.43342	.05190
#1	2470.7	721960.	44112.
#2	2471.5	723360.	44082.
#3	2457.9	717390.	44127.

Sample Name: SEQ-CCB Acquired: 10/11/2011 8:27:09 Type: QC
Method: DuoEnviroMethodNEW(v2432) Mode: CONC Corr. Factor: 1.000000
User: rburr Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Ag3280	Al3961	As1890	As1972	B_2496	Ba2335	Be3130	Ca3179
Units	ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppm
Avg	**-.21388**	**-5.5154**	**-.46838**	**-.19746**	**.21995**	**.06708**	**-.02371**	**.00015**
Stddev	.18478	9.5456	.44949	3.0398	.34324	.05099	.04110	.00165
%RSD	86.393	173.07	95.967	1539.4	156.06	76.014	173.32	1137.3
#1	-.17464	5.4993	-.92581	1.9958	-.00432	.11820	.02126	.00133
#2	-.41514	-11.377	-.45209	1.0791	.04907	.01622	-.03306	.00085
#3	-.05188	-10.668	-.02726	-3.6673	.61509	.06681	-.05934	-.00174
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit								
Low Limit								

Elem	Cd2144	Cd2288	Co2286	Cr2677	Cu2199	Cu3247	Fe2611	K_7664
Units	ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppm
Avg	**.02508**	**-.04127**	**.08518**	**.02749**	**.1583**	**-.53666**	**-.46475**	**-.00407**
Stddev	.03852	.08351	.07568	.07856	.6604	.27083	1.3612	.00145
%RSD	153.61	202.35	88.847	285.80	417.1	50.466	292.88	35.567
#1	.06143	-.13538	.13311	-.04976	.3245	-.64861	-.51623	-.00278
#2	.02909	.02396	.12449	.02492	-.5693	-.73357	.92143	-.00563
#3	-.01529	-.01238	-.00207	.10730	.7198	-.22780	-1.7995	-.00379
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit								
Low Limit								

Elem	Mg2790	Mn2576	Mo2020	Na5895	Ni2316	Pb2203	Sb2068	Se1960
Units	ppm	ppb	ppb	ppm	ppb	ppb	ppb	ppb
Avg	**.00432**	**-.01508**	**.69897**	**-.00809**	**.19926**	**-.44662**	**.78764**	**.24629**
Stddev	.00596	.01577	.08120	.00067	.10906	.11094	.60929	.99852
%RSD	138.10	104.54	11.618	8.3226	54.730	24.841	77.357	405.43
#1	-.00194	.00306	.79237	-.00884	.25597	-.32759	.09475	-.90177
#2	.00993	-.02282	.65936	-.00753	.07354	-.46511	1.2398	.72807
#3	.00496	-.02549	.64517	-.00791	.26828	-.54715	1.0284	.91256
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit								
Low Limit								

Sample Name: SEQ-CCB Acquired: 10/11/2011 8:27:09 Type: QC
Method: DuoEnviroMethodNEW(v2432) Mode: CONC Corr. Factor: 1.000000
User: rburr Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Sn1899	Sr4215	Ti3349	Tl1908	V_2924	Zn2062
Units	ppb	ppb	ppb	ppb	ppb	ppb
Avg	**.55252**	**-.0256**	**.20719**	**1.0561**	**.19069**	**-.01715**
Stddev	.13440	.0590	.61995	.6095	.10665	.06575
%RSD	24.325	230.1	299.22	57.708	55.929	383.49
#1	.41009	.0276	.40334	1.4804	.17005	-.08135
#2	.67711	-.0890	-.48711	.35772	.30616	.05006
#3	.57036	-.0155	.70533	1.3303	.09587	-.02015
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit						
Low Limit						

Int. Std.	Sc1880	Sc3613	Sc3613-2
Units	Cts/S	Cts/S	Cts/S
Avg	2662.7	739530.	43604.
Stddev	9.1	6686.	321.
%RSD	.33997	.90406	.73688
#1	2667.3	747030.	43939.
#2	2668.5	737390.	43299.
#3	2652.3	734180.	43575.

Sample Name: SEQ-CAL1 Acquired: 11/11/2011 9:53:09 Type: Cal
Method: DuoEnviroMethodNEW(v2459) Mode: IR Corr. Factor: 1.000000
User: rburr Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Ag3280	Al3961	As1890	As1972	B_2496	Ba2335	Be3130
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	**.00006**	**-.00063**	**-.00073**	**.00090**	**.00005**	**.00683**	**.00025**
Stddev	.00001	.00015	.00051	.00013	.00000	.00009	.00006
%RSD	8.1260	23.490	69.704	14.061	10.803	1.3427	24.420
#1	.00006	-.00072	-.00027	.00099	.00004	.00693	.00018
#2	.00006	-.00071	-.00065	.00076	.00005	.00679	.00028
#3	.00007	-.00046	-.00128	.00096	.00005	.00676	.00029

Elem	Ca3179	Cd2144	Cd2288	Co2286	Cr2677	Cu2199	Cu3247
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	**.00089**	**.00156**	**.03300**	**.00621**	**.00000**	**.0000**	**.00037**
Stddev	.00005	.00042	.00023	.00005	.0000	.0000	.00001
%RSD	5.9030	26.789	.69035	.77230	278.59	189.1	2.5498
#1	.00094	.00151	.03325	.00620	.00000	.0000	.00037
#2	.00084	.00200	.03291	.00618	-.00001	.0000	.00036
#3	.00087	.00117	.03282	.00627	.00001	.0000	.00038

Elem	Fe2611	K_7664	Mg2790	Mn2576	Mo2020	Na5895	Ni2316
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	**.00000**	**-.00428**	**.00003**	**.00004**	**.00063**	**-.00149**	**.00429**
Stddev	.0000	.00024	.00003	.00000	.00041	.00020	.00037
%RSD	3199.7	5.6515	96.507	.91322	66.067	13.566	8.6469
#1	.00000	-.00409	.00000	.00004	.00085	-.00155	.00470
#2	-.00004	-.00421	.00004	.00004	.00088	-.00166	.00398
#3	.00004	-.00455	.00004	.00004	.00015	-.00127	.00420

Elem	Pb2203	Sb2068	Se1960	Sn1899	Sr4215	Ti3349	Tl1908
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	**.00086**	**.00013**	**.00078**	**-.00113**	**-.0011**	**.00042**	**-.00148**
Stddev	.00027	.00045	.00064	.00015	.0000	.00008	.00013
%RSD	31.062	334.49	82.693	13.535	3.030	18.881	8.7042
#1	.00065	.00057	.00072	-.00102	-.0011	.00043	-.00134
#2	.00117	-.00033	.00017	-.00130	-.0011	.00034	-.00160
#3	.00077	.00016	.00145	-.00107	-.0012	.00050	-.00150

Sample Name: SEQ-CAL1 Acquired: 11/11/2011 9:53:09 Type: Cal
Method: DuoEnviroMethodNEW(v2459) Mode: IR Corr. Factor: 1.000000
User: rburr Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	V_2924	Zn2062
Units	Cts/S	Cts/S
Avg	**.00003**	**.00118**
Stddev	.00000	.00046
%RSD	2.6758	39.034
#1	.00003	.00128
#2	.00003	.00068
#3	.00003	.00158

Int. Std.	Sc1880	Sc3613	Sc3613-2
Units	Cts/S	Cts/S	Cts/S
Avg	2795.8	752290.	42501.
Stddev	5.2	5175.	126.
%RSD	.18557	.68790	.29743
#1	2789.8	746830.	42557.
#2	2799.2	752920.	42357.
#3	2798.4	757130.	42590.

Sample Name: SEQ-CAL2 Acquired: 11/11/2011 9:57:38 Type: Cal
Method: DuoEnviroMethodNEW(v2459) Mode: IR Corr. Factor: 1.000000
User: rburr Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Ag3280	Al3961	As1890	As1972	B_2496	Ba2335	Be3130	Ca3179
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	**.00124**	**.10804**	**.03221**	**.02383**	**.00074**	**.54521**	**.27404**	**.07145**
Stddev	.00001	.00024	.00029	.00041	.00001	.00074	.00110	.00041
%RSD	.91927	.22032	.90902	1.7079	1.0579	.13646	.40078	.57807
#1	.00123	.10826	.03195	.02425	.00073	.54442	.27451	.07178
#2	.00123	.10807	.03217	.02379	.00073	.54590	.27482	.07158
#3	.00125	.10778	.03253	.02344	.00075	.54530	.27278	.07099

Elem	Cd2144	Cd2288	Co2286	Cr2677	Cu2199	Cu3247	Fe2611	K_7664
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	**1.6187**	**.79175**	**.47153**	**.00493**	**.0003**	**.00645**	**.10180**	**.00895**
Stddev	.0014	.00092	.00154	.00004	.0000	.00005	.00022	.00023
%RSD	.08578	.11578	.32738	.75865	.5664	.69892	.21351	2.5215
#1	1.6200	.79157	.47083	.00493	.0003	.00644	.10167	.00872
#2	1.6173	.79094	.47046	.00489	.0003	.00642	.10205	.00897
#3	1.6189	.79275	.47330	.00496	.0003	.00650	.10167	.00917

Elem	Mn2576	Mo2020	Ni2316	Pb2203	Sb2068	Se1960	Sn1899	Sr4215
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	**.02821**	**.35982**	**.31621**	**.12682**	**.05209**	**.03773**	**.06319**	**.1605**
Stddev	.00015	.00093	.00046	.00038	.00019	.00029	.00026	.0006
%RSD	.54236	.25714	.14664	.29871	.36661	.76555	.41911	.3486
#1	.02823	.35907	.31607	.12682	.05205	.03768	.06344	.1612
#2	.02805	.35953	.31583	.12720	.05230	.03747	.06321	.1602
#3	.02835	.36085	.31672	.12644	.05192	.03804	.06291	.1602

Elem	Ti3349	Tl1908	V_2924	Zn2062
Units	Cts/S	Cts/S	Cts/S	Cts/S
Avg	**.02244**	**.07058**	**.00521**	**.67105**
Stddev	.00012	.00078	.00004	.00187
%RSD	.54235	1.0993	.68289	.27839
#1	.02248	.06969	.00522	.67067
#2	.02253	.07113	.00518	.66940
#3	.02230	.07092	.00525	.67308

Sample Name: SEQ-CAL2 Acquired: 11/11/2011 9:57:38 Type: Cal
Method: DuoEnviroMethodNEW(v2459) Mode: IR Corr. Factor: 1.000000
User: rburr Custom ID1: Custom ID2: Custom ID3:
Comment:

Int. Std.	Sc1880	Sc3613	Sc3613-2
Units	Cts/S	Cts/S	Cts/S
Avg	2803.4	766460.	43523.
Stddev	4.4	3381.	203.
%RSD	.15743	.44112	.46685
#1	2806.6	766220.	43466.
#2	2805.2	769960.	43355.
#3	2798.4	763210.	43749.

Sample Name: SEQ-CAL3 Acquired: 11/11/2011 10:01:59 Type: Cal
Method: DuoEnviroMethodNEW(v2459) Mode: IR Corr. Factor: 1.000000
User: rburr Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Ag3280	Al3961	As1890	As1972	B_2496	Ba2335	Be3130	Ca3179
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	**.02907**	**.21213**	**.33552**	**.23654**	**.01450**	**10.117**	**2.7181**	**3.1092**
Stddev	.00019	.00038	.00087	.00055	.00009	.008	.0029	.0081
%RSD	.64974	.17937	.25809	.23179	.60250	.07995	.10545	.26081
#1	.02928	.21255	.33463	.23717	.01460	10.122	2.7148	3.1164
#2	.02902	.21202	.33556	.23616	.01444	10.108	2.7201	3.1107
#3	.02892	.21182	.33636	.23629	.01447	10.122	2.7194	3.1004

Elem	Cd2144	Cd2288	Co2286	Cr2677	Cu2199	Cu3247	Fe2611	K_7664
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	**16.128**	**7.6836**	**4.5193**	**.04710**	**.0025**	**.05948**	**.19072**	**.12594**
Stddev	.034	.0111	.0078	.00038	.0000	.00049	.00018	.00046
%RSD	.21302	.14488	.17240	.79700	.6241	.81678	.09571	.36895
#1	16.113	7.6869	4.5233	.04753	.0025	.05999	.19054	.12630
#2	16.104	7.6712	4.5103	.04689	.0025	.05942	.19071	.12541
#3	16.167	7.6927	4.5242	.04688	.0025	.05902	.19090	.12610

Elem	Mg2790	Mn2576	Mo2020	Na5895	Ni2316	Pb2203	Sb2068	Se1960
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	**.12506**	**.27017**	**3.6375**	**1.8870**	**3.0461**	**1.2060**	**.52385**	**.37424**
Stddev	.00035	.00214	.0073	.0038	.0041	.0035	.00043	.00068
%RSD	.27860	.79192	.19948	.20194	.13419	.28857	.08272	.18149
#1	.12541	.27249	3.6350	1.8826	3.0451	1.2024	.52434	.37412
#2	.12506	.26828	3.6317	1.8896	3.0426	1.2063	.52369	.37363
#3	.12471	.26973	3.6456	1.8887	3.0506	1.2093	.52352	.37497

Elem	Sn1899	Sr4215	Ti3349	Tl1908	V_2924	Zn2062
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	**1.2628**	**1.557**	**.21592**	**.68430**	**.05086**	**6.6699**
Stddev	.0013	.009	.00136	.00200	.00033	.0079
%RSD	.10345	.5478	.62900	.29177	.65095	.11874
#1	1.2637	1.565	.21708	.68393	.05124	6.6724
#2	1.2613	1.559	.21626	.68252	.05062	6.6610
#3	1.2634	1.548	.21443	.68646	.05073	6.6762

Sample Name: SEQ-CAL3 Acquired: 11/11/2011 10:01:59 Type: Cal
Method: DuoEnviroMethodNEW(v2459) Mode: IR Corr. Factor: 1.000000
User: rburr Custom ID1: Custom ID2: Custom ID3:
Comment:

Int. Std.	Sc1880	Sc3613	Sc3613-2
Units	Cts/S	Cts/S	Cts/S
Avg	2618.0	734870.	43019.
Stddev	5.1	4676.	139.
%RSD	.19477	.63626	.32271
#1	2621.3	729480.	42867.
#2	2620.6	737860.	43051.
#3	2612.2	737270.	43139.

Sample Name: SEQ-CAL4 Acquired: 11/11/2011 10:06:18 Type: Cal
Method: DuoEnviroMethodNEW(v2459) Mode: IR Corr. Factor: 1.000000
User: rburr Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Ag3280	Ba2335	Mn2576
Units	Cts/S	Cts/S	Cts/S
Avg	**.12349**	**52.416**	**2.7363**
Stddev	.00093	.103	.0236
%RSD	.75075	.19710	.86323
#1	.12382	52.379	2.7145
#2	.12245	52.337	2.7329
#3	.12422	52.533	2.7614

Int. Std.	Sc1880	Sc3613
Units	Cts/S	Cts/S
Avg	2859.3	763710.
Stddev	6.2	6243.
%RSD	.21746	.81745
#1	2863.7	765780.
#2	2862.0	768660.
#3	2852.2	756700.

Sample Name: SEQ-CAL6 Acquired: 11/11/2011 10:16:40 Type: Cal
Method: DuoEnviroMethodNEW(v2459) Mode: IR Corr. Factor: 1.000000
User: rburr Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	As1890	As1972	B_2496	Be3130	Cd2144	Cd2288	Co2286	Cr2677
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	**3.2962**	**2.2927**	**.07225**	**26.767**	**153.25**	**73.993**	**45.333**	**.47397**
Stddev	.0177	.0112	.00024	.172	.85	.314	.238	.00307
%RSD	.53772	.48698	.33490	.64429	.55412	.42456	.52526	.64811
#1	3.2792	2.2897	.07201	26.570	152.56	73.743	45.229	.47708
#2	3.2950	2.2834	.07224	26.886	153.00	73.891	45.165	.47094
#3	3.3145	2.3051	.07250	26.846	154.20	74.346	45.606	.47389

Elem	Cu2199	Cu3247	Mo2020	Ni2316	Pb2203	Sb2068	Se1960	Sn1899
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	**.0257**	**.58055**	**36.123**	**30.713**	**12.210**	**5.0920**	**3.6330**	**6.3550**
Stddev	.0001	.00658	.179	.146	.056	.0254	.0165	.0327
%RSD	.1954	1.1330	.49447	.47550	.45789	.49828	.45345	.51428
#1	.0256	.57443	35.987	30.621	12.192	5.0809	3.6208	6.3399
#2	.0256	.57972	36.057	30.636	12.165	5.0741	3.6263	6.3326
#3	.0257	.58751	36.326	30.881	12.273	5.1210	3.6517	6.3925

Elem	Sr4215	Ti3349	Tl1908	V_2924	Zn2062
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	**15.39**	**2.1299**	**6.9765**	**.50965**	**65.441**
Stddev	.23	.0001	.0322	.00289	.322
%RSD	1.484	.00602	.46143	.56680	.49197
#1	15.62	2.1298	6.9541	.50662	65.372
#2	15.16	2.1299	6.9620	.50998	65.160
#3	15.39	2.1301	7.0134	.51237	65.792

Int. Std.	Sc1880	Sc3613	Sc3613-2
Units	Cts/S	Cts/S	Cts/S
Avg	2686.6	750870.	43834.
Stddev	13.1	2759.	102.
%RSD	.48941	.36742	.23354
#1	2692.7	750350.	43831.
#2	2695.6	753860.	43734.
#3	2671.5	748410.	43938.

Sample Name: SEQ-ICV Acquired: 11/11/2011 11:01:11 Type: QC
Method: DuoEnviroMethodNEW(v2461) Mode: CONC Corr. Factor: 1.000000
User: rburr Custom ID1: Custom ID2: Custom ID3:
Comment: 11K0391

Elem	Ag3280	Al3961	As1890	As1972	B_2496	Ba2335	Be3130
Units	ppb	ppb	ppb	ppb	ppb	ppb	ppb
Avg	**498.84**	**9971.5**	**1039.2**	**1014.9**	F **1068.9**	**991.50**	F **1050.7**
Stddev	5.35	7.5	2.2	3.1	10.6	.08	3.2
%RSD	1.0719	.07517	.21543	.30715	.99166	.00780	.30291
#1	495.54	9978.5	1038.4	1012.3	1066.4	991.41	1052.7
#2	495.97	9972.4	1037.5	1018.4	1059.9	991.55	1047.0
#3	505.01	9963.6	1041.7	1014.0	1080.6	991.55	1052.3
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Fail	Chk Pass	Chk Fail
Value					1000.0		1000.0
Range					±50.000		±50.000

Elem	Ca3179	Cd2144	Cd2288	Co2286	Cr2677	Cu2199	Cu3247
Units	ppm	ppb	ppb	ppb	ppb	ppb	ppb
Avg	F **53.374**	F **1080.3**	F **1061.8**	**982.52**	**971.30**	**1028.**	**995.79**
Stddev	.280	.4	1.1	1.22	8.96	6.	11.56
%RSD	.52441	.04061	.10048	.12463	.92286	.6282	1.1604
#1	53.619	1080.2	1063.0	981.55	966.23	1027.	991.40
#2	53.069	1079.9	1061.4	982.12	966.03	1022.	987.07
#3	53.436	1080.7	1061.0	983.90	981.65	1035.	1008.9
Check ?	Chk Fail	Chk Fail	Chk Fail	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value	50.000	1000.0	1000.0				
Range	±2.5000	±50.000	±50.000				

Elem	Fe2611	K_7664	Mg2790	Mn2576	Mo2020	Na5895	Ni2316
Units	ppb	ppm	ppm	ppb	ppb	ppm	ppb
Avg	F **10519.**	F **9.2910**	**49.890**	**1007.8**	**1043.9**	F **52.730**	**1002.8**
Stddev	22.	.0329	.171	9.2	1.4	.090	.9
%RSD	.20453	.35371	.34277	.91597	.13817	.16998	.08538
#1	10508.	9.3151	50.040	1004.1	1043.2	52.691	1002.9
#2	10506.	9.2536	49.704	1001.0	1042.8	52.667	1001.8
#3	10544.	9.3043	49.924	1018.3	1045.5	52.833	1003.5
Check ?	Chk Fail	Chk Fail	Chk Pass	Chk Pass	Chk Pass	Chk Fail	Chk Pass
Value	10000.	10.000				50.000	
Range	±500.00	±-.50000				±2.5000	

Sample Name: SEQ-ICV Acquired: 11/11/2011 11:01:11 Type: QC
Method: DuoEnviroMethodNEW(v2461) Mode: CONC Corr. Factor: 1.000000
User: rburr Custom ID1: Custom ID2: Custom ID3:
Comment: 11K0391

Elem	Pb2203	Sb2068	Se1960	Sn1899	Sr4215	Ti3349	Tl1908
Units	ppb	ppb	ppb	ppb	ppb	ppb	ppb
Avg	**978.55**	**1010.5**	**1018.3**	**1011.6**	**1008.**	**1015.9**	**980.52**
Stddev	2.72	.7	1.9	.6	4.	5.9	1.51
%RSD	.27837	.07071	.18934	.05956	.3782	.58244	.15362
#1	977.05	1010.4	1020.3	1011.6	1012.	1021.3	982.21
#2	976.90	1011.3	1016.4	1012.3	1004.	1009.6	979.30
#3	981.69	1009.9	1018.2	1011.1	1007.	1016.8	980.07
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value							
Range							

Elem	V_2924	Zn2062
Units	ppb	ppb
Avg	**1023.1**	**1022.9**
Stddev	10.5	.8
%RSD	1.0217	.07439
#1	1017.0	1022.6
#2	1017.1	1022.3
#3	1035.2	1023.7
Check ?	Chk Pass	Chk Pass
Value		
Range		

Int. Std.	Sc1880	Sc3613	Sc3613-2
Units	Cts/S	Cts/S	Cts/S
Avg	2631.4	730820.	42975.
Stddev	3.7	6352.	201.
%RSD	.13934	.86914	.46663
#1	2632.4	734100.	42957.
#2	2634.5	734870.	43184.
#3	2627.4	723500.	42785.

Sample Name: SEQ-ICB Acquired: 11/11/2011 11:08:24 Type: QC
Method: DuoEnviroMethodNEW(v2461) Mode: CONC Corr. Factor: 1.000000
User: rburr Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Ag3280	Al3961	As1890	As1972	B_2496	Ba2335	Be3130	Ca3179
Units	ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppm
Avg	**-.07824**	**-1.6242**	**.28295**	**1.2337**	**.86826**	**.00040**	**-.01313**	**.00142**
Stddev	.12675	3.6206	1.4044	1.2369	.21773	.00280	.03945	.00109
%RSD	162.01	222.91	496.34	100.26	25.077	705.71	300.53	77.014
#1	.03971	2.0030	1.1473	1.2552	.65288	.00153	-.04487	.00040
#2	-.21225	-1.6375	1.0391	-.01379	1.0883	-.00279	.03104	.00129
#3	-.06217	-5.2382	-1.3375	2.4597	.86362	.00245	-.02555	.00257
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit								
Low Limit								

Elem	Cd2144	Cd2288	Co2286	Cr2677	Cu2199	Cu3247	Fe2611	K_7664
Units	ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppm
Avg	**-.01561**	**.14665**	**-.06610**	**-.00632**	**.7235**	**.38628**	**3.1294**	**-.01464**
Stddev	.02140	.08504	.11571	.16501	.5556	.19878	.7503	.02054
%RSD	137.06	57.987	175.04	2611.0	76.80	51.460	23.977	140.27
#1	-.01860	.24431	-.00925	-.15547	.3030	.42987	2.3045	.00741
#2	-.03536	.10669	.01018	-.03443	1.353	.55964	3.3124	-.03323
#3	.00712	.08895	-.19924	.17094	.5141	.16932	3.7713	-.01811
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit								
Low Limit								

Elem	Mg2790	Mn2576	Mo2020	Na5895	Ni2316	Pb2203	Sb2068	Se1960
Units	ppm	ppb	ppb	ppm	ppb	ppb	ppb	ppb
Avg	**.00163**	**.04528**	**.76130**	**.00157**	**-.30996**	**.14314**	**-.15737**	**.21096**
Stddev	.00352	.00310	.02858	.00482	.24138	.19004	.85702	.87948
%RSD	215.80	6.8458	3.7536	306.60	77.876	132.77	544.59	416.89
#1	.00540	.04800	.78219	.00395	-.04834	.29322	.73104	-.53877
#2	-.00156	.04190	.77297	.00474	-.35751	.20674	-.22406	-.00740
#3	.00105	.04593	.72874	-.00397	-.52402	-.07054	-.97910	1.1790
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit								
Low Limit								

Sample Name: SEQ-ICB Acquired: 11/11/2011 11:08:24 Type: QC
Method: DuoEnviroMethodNEW(v2461) Mode: CONC Corr. Factor: 1.000000
User: rburr Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Sn1899	Sr4215	Ti3349	Tl1908	V_2924	Zn2062
Units	ppb	ppb	ppb	ppb	ppb	ppb
Avg	**-.22928**	**-.1693**	**.13871**	**.32192**	**.13479**	**-.00121**
Stddev	.10697	.0357	.18207	.23959	.09283	.06443
%RSD	46.654	21.08	131.26	74.424	68.867	5311.6
#1	-.35170	-.1299	.15138	.08585	.12519	-.03584
#2	-.15381	-.1784	-.04936	.56487	.04714	-.04092
#3	-.18233	-.1995	.31411	.31504	.23204	.07312
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit						
Low Limit						

Int. Std.	Sc1880	Sc3613	Sc3613-2
Units	Cts/S	Cts/S	Cts/S
Avg	2849.7	753130.	42920.
Stddev	3.7	5940.	158.
%RSD	.12847	.78870	.36721
#1	2853.6	759850.	42754.
#2	2846.3	750920.	42938.
#3	2849.1	748600.	43068.

Sample Name: SEQ-CRL Acquired: 11/11/2011 11:13:12 Type: QC
Method: DuoEnviroMethodNEW(v2461) Mode: CONC Corr. Factor: 1.000000
User: rburr Custom ID1: Custom ID2: Custom ID3:
Comment: RLSTDA

Elem	Ag3280	Al3961	As1890	As1972	B_2496	Ba2335	Be3130
Units	ppb	ppb	ppb	ppb	ppb	ppb	ppb
Avg	**1.9471**	**100.18**	**5.9170**	F **7.2231**	**.40763**	**10.057**	**2.1381**
Stddev	.1321	5.88	.7158	1.0553	.13850	.055	.0343
%RSD	6.7849	5.8698	12.098	14.609	33.976	.54428	1.6051
#1	1.9853	101.39	5.1291	7.5621	.45128	10.027	2.1037
#2	1.8001	105.36	6.5273	8.0672	.25257	10.024	2.1384
#3	2.0559	93.786	6.0945	6.0400	.51905	10.120	2.1723
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Fail	None	Chk Pass	Chk Pass
Value				6.0000			
Range				±1.2000			

Elem	Ca3179	Cd2144	Cd2288	Co2286	Cr2677	Cu2199	Cu3247
Units	ppm	ppb	ppb	ppb	ppb	ppb	ppb
Avg	**2.1917**	**2.1234**	**2.3440**	**9.6190**	**4.1987**	**9.534**	**8.2797**
Stddev	.0030	.0331	.0446	.1375	.3174	.290	.1424
%RSD	.13626	1.5588	1.9026	1.4296	7.5600	3.047	1.7204
#1	2.1913	2.1340	2.2934	9.7616	4.1097	9.619	8.3660
#2	2.1948	2.0863	2.3611	9.6081	3.9353	9.773	8.1153
#3	2.1889	2.1499	2.3776	9.4872	4.5511	9.211	8.3579
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value							
Range							

Elem	Fe2611	K_7664	Mg2790	Mn2576	Mo2020	Na5895	Ni2316
Units	ppb	ppm	ppm	ppb	ppb	ppm	ppb
Avg	**68.556**	**3.0337**	**3.1277**	**6.3970**	**10.228**	**3.2015**	**5.6241**
Stddev	2.366	.0080	.0279	.0474	.056	.0077	.0876
%RSD	3.4506	.26435	.89080	.74115	.54780	.24159	1.5576
#1	69.059	3.0299	3.1229	6.3743	10.166	3.1932	5.6423
#2	65.979	3.0283	3.1577	6.3653	10.243	3.2027	5.5288
#3	70.629	3.0429	3.1026	6.4515	10.275	3.2085	5.7012
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value							
Range							

Sample Name: SEQ-CRL Acquired: 11/11/2011 11:13:12 Type: QC
Method: DuoEnviroMethodNEW(v2461) Mode: CONC Corr. Factor: 1.000000
User: rburr Custom ID1: Custom ID2: Custom ID3:
Comment: RLSTDA

Elem	Pb2203	Sb2068	Se1960	Sn1899	Sr4215	Ti3349	Tl1908
Units	ppb	ppb	ppb	ppb	ppb	ppb	ppb
Avg	**3.4054**	**7.4776**	**5.7576**	**19.597**	**5.877**	**10.950**	**3.9810**
Stddev	.5296	.4662	.7920	.161	.055	.114	.5995
%RSD	15.551	6.2344	13.755	.82281	.9329	1.0421	15.060
#1	3.0789	7.9632	5.2104	19.642	5.832	11.077	4.3880
#2	4.0164	7.4359	5.3967	19.418	5.860	10.856	3.2926
#3	3.1210	7.0337	6.6657	19.731	5.938	10.918	4.2625
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value							
Range							

Elem	V_2924	Zn2062
Units	ppb	ppb
Avg	**10.559**	**9.9567**
Stddev	.028	.0223
%RSD	.26422	.22435
#1	10.529	9.9462
#2	10.566	9.9823
#3	10.583	9.9415
Check ?	Chk Pass	Chk Pass
Value		
Range		

Int. Std.	Sc1880	Sc3613	Sc3613-2
Units	Cts/S	Cts/S	Cts/S
Avg	2828.5	738920.	42434.
Stddev	6.9	5176.	150.
%RSD	.24265	.70051	.35402
#1	2829.5	742220.	42525.
#2	2834.8	741570.	42261.
#3	2821.2	732950.	42516.

Sample Name: SEQ-CRL Acquired: 11/11/2011 11:17:56 Type: QC
Method: DuoEnviroMethodNEW(v2461) Mode: CONC Corr. Factor: 1.000000
User: rburr Custom ID1: Custom ID2: Custom ID3:
Comment: RLSTD1

Elem	Ag3280	Al3961	As1890	As1972	B_2496	Ba2335	Be3130	Ca3179
Units	ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppm
Avg	**2.0184**	**218.48**	**5.3070**	**4.3726**	**31.444**	**97.449**	**5.4011**	**.00202**
Stddev	.2243	6.41	.2270	.8659	.429	.245	.0072	.00050
%RSD	11.111	2.9354	4.2766	19.804	1.3635	.25150	.13408	24.854
#1	1.9851	221.89	5.2995	5.2653	31.725	97.166	5.4053	.00229
#2	1.8126	211.08	5.5376	3.5362	31.656	97.602	5.3927	.00232
#3	2.2574	222.47	5.0839	4.3162	30.950	97.578	5.4052	.00144
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	None	Chk Pass	None
Value								
Range								

Elem	Cd2144	Cd2288	Co2286	Cr2677	Cu2199	Cu3247	Fe2611	K_7664
Units	ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppm
Avg	**5.2919**	**5.2603**	**12.215**	**5.3117**	**11.33**	**10.661**	**115.38**	**-.00011**
Stddev	.0434	.0436	.047	.1411	.76	.088	1.89	.02815
%RSD	.82050	.82899	.38769	2.6569	6.734	.82348	1.6349	25940.
#1	5.2626	5.2343	12.270	5.1810	11.98	10.592	116.49	.01849
#2	5.3418	5.3107	12.187	5.2929	10.49	10.759	116.45	.01368
#3	5.2713	5.2360	12.188	5.4613	11.50	10.631	113.20	-.03250
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	None
Value								
Range								

Elem	Mg2790	Mn2576	Mo2020	Na5895	Ni2316	Pb2203	Sb2068	Se1960
Units	ppm	ppb	ppb	ppm	ppb	ppb	ppb	ppb
Avg	**.00311**	**15.937**	**14.789**	**-.00049**	**9.7452**	**3.4474**	**14.082**	**4.5459**
Stddev	.00323	.071	.086	.00923	.0609	.2092	.974	1.1230
%RSD	103.58	.44836	.58300	1874.3	.62522	6.0673	6.9186	24.704
#1	.00083	15.918	14.888	-.00903	9.6894	3.3449	15.178	4.4380
#2	.00171	16.016	14.741	.00930	9.7361	3.3093	13.756	5.7189
#3	.00681	15.877	14.736	-.00175	9.8102	3.6881	13.313	3.4807
Check ?	None	None	Chk Pass	None	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value								
Range								

Sample Name: SEQ-CRL Acquired: 11/11/2011 11:17:56 Type: QC
Method: DuoEnviroMethodNEW(v2461) Mode: CONC Corr. Factor: 1.000000
User: rburr Custom ID1: Custom ID2: Custom ID3:
Comment: RLSTD1

Elem	Sn1899	Sr4215	Ti3349	Tl1908	V_2924	Zn2062
Units	ppb	ppb	ppb	ppb	ppb	ppb
Avg	**30.353**	**-.1165**	**15.428**	**7.9453**	**13.145**	**20.048**
Stddev	.079	.0995	.772	.4336	.501	.079
%RSD	.25903	85.35	5.0029	5.4578	3.8126	.39251
#1	30.271	-.1424	16.318	7.4749	12.595	19.977
#2	30.428	-.2005	14.954	8.0321	13.576	20.035
#3	30.360	-.0067	15.011	8.3291	13.263	20.132
Check ?	None	None	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value						
Range						

Int. Std.	Sc1880	Sc3613	Sc3613-2
Units	Cts/S	Cts/S	Cts/S
Avg	2852.9	744300.	42180.
Stddev	4.1	5139.	133.
%RSD	.14528	.69041	.31443
#1	2857.1	749530.	42269.
#2	2852.6	739260.	42028.
#3	2848.9	744110.	42244.

Sample Name: SEQ-IFA Acquired: 11/11/2011 11:22:42 Type: Unk
Method: DuoEnviroMethodNEW(v2461) Mode: CONC Corr. Factor: 1.000000
User: rburr Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Ag3280	Al3961	As1890	As1972	B_2496	Ba2335	Be3130
Units	ppb	ppb	ppb	ppb	ppb	ppb	ppb
Avg	**-.31369**	**510190.**	**-1.1175**	**-5.7073**	**-.19963**	**1.5629**	**.05290**
Stddev	.21438	3694.	1.9044	3.7393	.55158	.0179	.04936
%RSD	68.340	.72404	170.41	65.517	276.30	1.1458	93.308
#1	-.10467	506200.	-.93092	-10.004	-.61490	1.5482	.06400
#2	-.53305	510890.	-3.1084	-3.9295	.42621	1.5577	.09576
#3	-.30336	513480.	.68666	-3.1886	-.41020	1.5828	-.00107

Elem	Ca3179	Cd2144	Cd2288	Co2286	Cr2677	Cu2199	Cu3247
Units	ppm	ppb	ppb	ppb	ppb	ppb	ppb
Avg	**507.68**	**1.3580**	**1.5716**	**-2.2845**	**-.86391**	**-8.100**	**.02537**
Stddev	3.53	.1406	.0696	.3121	.13440	1.100	.17562
%RSD	.69451	10.350	4.4304	13.662	15.557	13.58	692.34
#1	511.74	1.5155	1.6379	-2.5712	-.83790	-7.950	-.16652
#2	505.93	1.2454	1.5779	-2.3303	-.74442	-9.268	.06450
#3	505.38	1.3129	1.4990	-1.9520	-1.0094	-7.083	.17812

Elem	Fe2611	K_7664	Mg2790	Mn2576	Mo2020	Na5895	Ni2316
Units	ppb	ppm	ppm	ppb	ppb	ppm	ppb
Avg	**208870.**	**-.04040**	**494.58**	**-4.1852**	**1.1931**	**.02582**	**-4.3011**
Stddev	663.	.01911	1.27	.0367	.1107	.00555	.2932
%RSD	.31731	47.318	.25737	.87716	9.2786	21.508	6.8162
#1	208640.	-.06133	493.75	-4.1820	1.2727	.02099	-4.5713
#2	208350.	-.03598	493.95	-4.1502	1.2398	.03189	-3.9894
#3	209610.	-.02387	496.05	-4.2234	1.0667	.02458	-4.3427

Elem	Pb2203	Sb2068	Se1960	Sn1899	Sr4215	Ti3349	Tl1908
Units	ppb	ppb	ppb	ppb	ppb	ppb	ppb
Avg	**1.5549**	**-.91415**	**.49169**	**-2.0155**	**-3.769**	**4.1831**	**-1.8005**
Stddev	1.6359	1.0388	3.4849	.9266	.182	.1738	1.1752
%RSD	105.21	113.64	708.75	45.972	4.830	4.1540	65.271
#1	3.4144	-2.1086	-.60032	-2.1463	-3.747	4.3751	-.70315
#2	.91293	-.41231	4.3918	-2.8697	-3.962	4.0367	-3.0406
#3	.33727	-.22154	-2.3164	-1.0304	-3.600	4.1373	-1.6578

Sample Name: SEQ-IFA Acquired: 11/11/2011 11:22:42 Type: Unk
Method: DuoEnviroMethodNEW(v2461) Mode: CONC Corr. Factor: 1.000000
User: rburr Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	V_2924	Zn2062
Units	ppb	ppb
Avg	**-.76423**	**-8.3616**
Stddev	.20113	.1221
%RSD	26.318	1.4599
#1	-.79718	-8.4859
#2	-.94685	-8.2419
#3	-.54866	-8.3571

Int. Std.	Sc1880	Sc3613	Sc3613-2
Units	Cts/S	Cts/S	Cts/S
Avg	2199.0	660410.	41264.
Stddev	1.6	5695.	70.
%RSD	.07268	.86241	.17042
#1	2200.7	666350.	41313.
#2	2198.9	659880.	41295.
#3	2197.5	655000.	41184.

Sample Name: SEQ-IFB Acquired: 11/11/2011 11:30:06 Type: QC
Method: DuoEnviroMethodNEW(v2461) Mode: CONC Corr. Factor: 1.000000
User: rburr Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Ag3280	Al3961	As1890	As1972	B_2496	Ba2335	Be3130
Units	ppb	ppb	ppb	ppb	ppb	ppb	ppb
Avg	**207.65**	**504360.**	**110.42**	**103.76**	**21.234**	**513.78**	**510.57**
Stddev	.59	2983.	1.73	.93	.511	1.32	2.22
%RSD	.28386	.59144	1.5642	.89872	2.4050	.25643	.43534
#1	208.32	503840.	108.45	103.07	20.701	512.56	509.35
#2	207.34	501680.	111.64	104.82	21.284	515.18	509.21
#3	207.27	507570.	111.19	103.40	21.718	513.61	513.13
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	None	Chk Pass	Chk Pass
Value							
Range							

Elem	Ca3179	Cd2144	Cd2288	Co2286	Cr2677	Cu2199	Cu3247
Units	ppm	ppb	ppb	ppb	ppb	ppb	ppb
Avg	**496.27**	**1054.6**	**1134.5**	**474.74**	**473.02**	**491.9**	**509.25**
Stddev	6.26	1.1	1.4	2.21	1.84	1.1	3.16
%RSD	1.2623	.10165	.12355	.46462	.38829	.2157	.62048
#1	491.00	1053.3	1132.9	473.05	474.69	492.2	512.79
#2	494.62	1055.2	1135.3	477.24	473.32	490.8	506.70
#3	503.20	1055.2	1135.4	473.94	471.05	492.8	508.26
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value							
Range							

Elem	Fe2611	K_7664	Mg2790	Mn2576	Mo2020	Na5895	Ni2316
Units	ppb	ppm	ppm	ppb	ppb	ppm	ppb
Avg	**206740.**	**.00942**	**486.34**	**473.76**	**1.2316**	**.04805**	**974.45**
Stddev	655.	.00789	1.73	2.87	.1555	.00947	1.74
%RSD	.31660	83.711	.35500	.60513	12.626	19.708	.17889
#1	206320.	.00917	485.33	476.64	1.2678	.05648	972.68
#2	206410.	.00166	485.36	473.74	1.0611	.04986	976.17
#3	207500.	.01743	488.33	470.91	1.3657	.03781	974.49
Check ?	Chk Pass	None	Chk Pass	Chk Pass	None	None	Chk Pass
Value							
Range							

Sample Name: SEQ-IFB Acquired: 11/11/2011 11:30:06 Type: QC
Method: DuoEnviroMethodNEW(v2461) Mode: CONC Corr. Factor: 1.000000
User: rburr Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Pb2203	Sb2068	Se1960	Sn1899	Sr4215	Ti3349	Tl1908
Units	ppb	ppb	ppb	ppb	ppb	ppb	ppb
Avg	**47.620**	**634.40**	**51.504**	**-2.0060**	**-3.639**	**3.9171**	**93.171**
Stddev	1.757	4.38	.703	.6775	.123	.6575	.936
%RSD	3.6888	.69090	1.3652	33.774	3.390	16.787	1.0048
#1	46.343	630.47	50.695	-2.5873	-3.498	4.1178	94.198
#2	49.623	639.13	51.959	-1.2619	-3.723	4.4508	92.366
#3	46.893	633.59	51.860	-2.1689	-3.697	3.1826	92.948
Check ?	Chk Pass	Chk Pass	Chk Pass	None	None	None	Chk Pass
Value							
Range							

Elem	V_2924	Zn2062
Units	ppb	ppb
Avg	**489.55**	**991.93**
Stddev	2.28	3.35
%RSD	.46662	.33777
#1	492.18	990.62
#2	488.40	995.74
#3	488.07	989.44
Check ?	Chk Pass	Chk Pass
Value		
Range		

Int. Std.	Sc1880	Sc3613	Sc3613-2
Units	Cts/S	Cts/S	Cts/S
Avg	2218.2	663290.	42445.
Stddev	3.8	2314.	218.
%RSD	.17344	.34888	.51350
#1	2220.0	661440.	42598.
#2	2213.8	662550.	42540.
#3	2220.8	665890.	42195.

Sample Name: SEQ-CCV Acquired: 11/11/2011 11:43:03 Type: QC
Method: DuoEnviroMethodNEW(v2461) Mode: CONC Corr. Factor: 1.000000
User: rburr Custom ID1: Custom ID2: Custom ID3:
Comment: 11K0392

Elem	Ag3280	Al3961	As1890	As1972	B_2496	Ba2335	Be3130	Ca3179
Units	ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppm
Avg	**495.22**	**9954.6**	**1031.0**	**988.75**	**1060.0**	**959.18**	**1088.0**	**54.292**
Stddev	1.26	13.8	5.3	9.36	8.0	5.62	1.6	.080
%RSD	.25540	.13891	.51160	.94698	.75326	.58623	.15069	.14744
#1	496.60	9953.8	1029.1	986.23	1064.7	957.14	1088.0	54.241
#2	494.94	9968.8	1026.9	980.91	1064.5	954.87	1089.7	54.385
#3	494.11	9941.2	1036.9	999.12	1050.8	965.54	1086.4	54.252
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value								
Range								

Elem	Cd2144	Cd2288	Co2286	Cr2677	Cu2199	Cu3247	Fe2611	K_7664
Units	ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppm
Avg	**1049.2**	**1035.6**	**950.36**	**996.38**	**1035.**	**979.44**	**10732.**	**10.050**
Stddev	4.0	5.6	5.96	3.74	5.	2.89	6.	.024
%RSD	.38559	.53726	.62725	.37557	.4718	.29475	.05559	.23425
#1	1047.3	1033.1	948.34	998.71	1041.	979.74	10735.	10.076
#2	1046.5	1031.7	945.68	998.36	1034.	982.17	10725.	10.030
#3	1053.9	1042.0	957.07	992.06	1031.	976.42	10736.	10.043
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value								
Range								

Elem	Mg2790	Mn2576	Mo2020	Na5895	Ni2316	Pb2203	Sb2068	Se1960
Units	ppm	ppb	ppb	ppm	ppb	ppb	ppb	ppb
Avg	**50.425**	**1013.5**	**1008.2**	**53.813**	**995.12**	**958.70**	**979.42**	**1022.4**
Stddev	.033	6.5	7.0	.006	4.81	4.28	5.82	5.3
%RSD	.06522	.63667	.69504	.01208	.48361	.44612	.59457	.51640
#1	50.388	1017.2	1004.7	53.819	993.66	955.86	976.57	1021.7
#2	50.435	1017.3	1003.6	53.814	991.21	956.61	975.56	1017.5
#3	50.451	1006.1	1016.3	53.806	1000.5	963.62	986.12	1028.0
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value								
Range								

Sample Name: SEQ-CCV Acquired: 11/11/2011 11:43:03 Type: QC
Method: DuoEnviroMethodNEW(v2461) Mode: CONC Corr. Factor: 1.000000
User: rburr Custom ID1: Custom ID2: Custom ID3:
Comment: 11K0392

Elem	Sn1899	Sr4215	Ti3349	Tl1908	V_2924	Zn2062
Units	ppb	ppb	ppb	ppb	ppb	ppb
Avg	**993.69**	**1004.**	**1003.0**	**1002.5**	**1027.1**	**997.15**
Stddev	5.87	1.	.9	3.7	5.3	4.48
%RSD	.59118	.0616	.09207	.37247	.51587	.44916
#1	990.88	1004.	1002.0	1001.0	1031.0	994.97
#2	989.75	1005.	1003.8	999.73	1029.2	994.18
#3	1000.4	1004.	1003.2	1006.7	1021.1	1002.3
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value						
Range						

Int. Std.	Sc1880	Sc3613	Sc3613-2
Units	Cts/S	Cts/S	Cts/S
Avg	2677.2	727410.	43037.
Stddev	9.0	4042.	104.
%RSD	.33789	.55565	.24224
#1	2683.5	723520.	43064.
#2	2681.3	727100.	43125.
#3	2666.8	731590.	42922.

Sample Name: SEQ-CCB Acquired: 11/11/2011 11:50:19 Type: QC
Method: DuoEnviroMethodNEW(v2461) Mode: CONC Corr. Factor: 1.000000
User: rburr Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Ag3280	Al3961	As1890	As1972	B_2496	Ba2335	Be3130	Ca3179
Units	ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppm
Avg	**-.07833**	**3.8762**	**1.6245**	**.97899**	**.24786**	**.16279**	**.03588**	**.00484**
Stddev	.09700	6.8032	.3271	2.0781	.27452	.02732	.05590	.00077
%RSD	123.83	175.51	20.133	212.27	110.76	16.785	155.81	15.973
#1	-.03765	-.79815	1.2742	-1.3747	.38504	.14020	-.02863	.00508
#2	-.00830	.74570	1.9218	2.5602	-.06821	.19316	.06607	.00547
#3	-.18905	11.681	1.6774	1.7514	.42677	.15500	.07019	.00398
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit								
Low Limit								

Elem	Cd2144	Cd2288	Co2286	Cr2677	Cu2199	Cu3247	Fe2611	K_7664
Units	ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppm
Avg	**.17206**	**.40345**	**.07561**	**.09549**	**.3645**	**.97517**	**2.7209**	**.01047**
Stddev	.08861	.07272	.05484	.09753	.5231	.18567	.3682	.01278
%RSD	51.497	18.025	72.531	102.13	143.5	19.039	13.531	122.11
#1	.07687	.34215	.06088	.03534	.7841	1.0452	2.2962	.01233
#2	.18719	.38438	.02964	.04312	-.2216	.76467	2.9169	.02221
#3	.25214	.48380	.13632	.20802	.5310	1.1156	2.9497	-.00314
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit								
Low Limit								

Elem	Mg2790	Mn2576	Mo2020	Na5895	Ni2316	Pb2203	Sb2068	Se1960
Units	ppm	ppb	ppb	ppm	ppb	ppb	ppb	ppb
Avg	**.00391**	**.10016**	**.77258**	**.01072**	**-.38204**	**.41013**	**.04356**	**-.01548**
Stddev	.00870	.01611	.02137	.00555	.15329	.14995	.63765	.77691
%RSD	222.46	16.084	2.7665	51.729	40.124	36.562	1463.9	5018.6
#1	.00160	.08212	.79713	.00432	-.26509	.58081	.71158	-.72577
#2	-.00340	.10524	.75814	.01392	-.32545	.29959	-.55861	-.13489
#3	.01353	.11312	.76246	.01393	-.55558	.34997	-.02229	.81422
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit								
Low Limit								

Sample Name: SEQ-CCB Acquired: 11/11/2011 11:50:19 Type: QC
Method: DuoEnviroMethodNEW(v2461) Mode: CONC Corr. Factor: 1.000000
User: rburr Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Sn1899	Sr4215	Ti3349	Tl1908	V_2924	Zn2062
Units	ppb	ppb	ppb	ppb	ppb	ppb
Avg	**.22860**	**-.1099**	**-.10052**	**.32947**	**.17901**	**.12625**
Stddev	.11825	.0077	.21621	.53633	.05410	.05027
%RSD	51.728	6.985	215.09	162.79	30.223	39.815
#1	.19715	-.1117	-.16511	.62017	.22657	.16828
#2	.35939	-.1015	.14063	.65769	.19033	.13991
#3	.12925	-.1165	-.27708	-.28946	.12015	.07057
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit						
Low Limit						

Int. Std.	Sc1880	Sc3613	Sc3613-2
Units	Cts/S	Cts/S	Cts/S
Avg	2898.0	760260.	43590.
Stddev	9.3	2108.	118.
%RSD	.32015	.27726	.27169
#1	2894.2	758090.	43650.
#2	2908.5	762300.	43666.
#3	2891.1	760380.	43453.

Sample Name: SEQ-CCV Acquired: 11/11/2011 19:15:35 Type: QC
Method: DuoEnviroMethodNEW(v2461) Mode: CONC Corr. Factor: 1.000000
User: rburr Custom ID1: Custom ID2: Custom ID3:
Comment: 11K0392

Elem	Ag3280	Al3961	As1890	As1972	B_2496	Ba2335	Be3130
Units	ppb	ppb	ppb	ppb	ppb	ppb	ppb
Avg	**479.96**	**9751.8**	**1045.1**	F **1122.2**	**1015.6**	**1022.5**	**969.55**
Stddev	1.41	14.6	3.7	3.6	5.2	4.5	4.89
%RSD	.29443	.15012	.35520	.31799	.50957	.43955	.50421
#1	479.92	9754.2	1045.5	1121.2	1014.2	1022.5	964.66
#2	478.57	9765.1	1041.2	1119.2	1011.2	1018.0	969.56
#3	481.39	9736.2	1048.6	1126.2	1021.3	1027.0	974.43
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Fail	Chk Pass	Chk Pass	Chk Pass
Value				1000.0			
Range				±100.00			

Elem	Ca3179	Cd2144	Cd2288	Co2286	Cr2677	Cu2199	Cu3247
Units	ppm	ppb	ppb	ppb	ppb	ppb	ppb
Avg	**49.953**	**1058.9**	**1068.4**	**1083.1**	**1021.9**	**996.7**	**1086.4**
Stddev	.279	4.0	4.0	3.7	3.2	3.0	2.0
%RSD	.55753	.37544	.37830	.34406	.31359	.3034	.18761
#1	49.654	1059.2	1068.0	1083.7	1023.3	994.7	1088.0
#2	50.001	1054.8	1064.5	1079.2	1018.2	995.3	1084.1
#3	50.205	1062.7	1072.6	1086.6	1024.2	1000.	1087.2
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value							
Range							

Elem	Fe2611	K_7664	Mg2790	Mn2576	Mo2020	Na5895	Ni2316
Units	ppb	ppm	ppm	ppb	ppb	ppm	ppb
Avg	**9616.3**	**9.7095**	F **38.460**	**1012.3**	**1046.4**	**47.559**	**1015.5**
Stddev	43.2	.0128	.178	4.5	4.6	.178	4.4
%RSD	.44916	.13154	.46232	.44539	.44326	.37461	.42986
#1	9570.4	9.7076	38.273	1011.8	1045.7	47.379	1015.4
#2	9622.6	9.7230	38.481	1008.1	1042.1	47.561	1011.2
#3	9656.1	9.6977	38.627	1017.1	1051.3	47.736	1019.9
Check ?	Chk Pass	Chk Pass	Chk Fail	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value			50.000				
Range			±-5.0000				

Sample Name: SEQ-CCV Acquired: 11/11/2011 19:15:35 Type: QC
Method: DuoEnviroMethodNEW(v2461) Mode: CONC Corr. Factor: 1.000000
User: rburr Custom ID1: Custom ID2: Custom ID3:
Comment: 11K0392

Elem	Pb2203	Sb2068	Se1960	Sn1899	Sr4215	Ti3349	Tl1908
Units	ppb	ppb	ppb	ppb	ppb	ppb	ppb
Avg	**1042.3**	F **1137.4**	**1082.3**	**1046.9**	**1042.**	**1042.8**	**999.90**
Stddev	4.4	3.4	5.0	5.3	3.	5.0	4.40
%RSD	.42296	.29827	.46616	.50721	.2458	.47964	.43983
#1	1044.8	1136.8	1080.6	1047.8	1040.	1037.1	998.58
#2	1037.2	1134.4	1078.3	1041.3	1045.	1045.8	996.32
#3	1044.8	1141.1	1087.9	1051.8	1042.	1045.7	1004.8
Check ?	Chk Pass	Chk Fail	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value		1000.0					
Range		±100.00					

Elem	V_2924	Zn2062
Units	ppb	ppb
Avg	**1019.5**	**1047.9**
Stddev	4.1	3.9
%RSD	.40536	.37064
#1	1020.8	1048.9
#2	1014.9	1043.6
#3	1022.9	1051.2
Check ?	Chk Pass	Chk Pass
Value		
Range		

Int. Std.	Sc1880	Sc3613	Sc3613-2
Units	Cts/S	Cts/S	Cts/S
Avg	2581.2	754190.	46266.
Stddev	9.6	3002.	80.
%RSD	.37051	.39802	.17395
#1	2580.7	754660.	46351.
#2	2591.0	756930.	46255.
#3	2571.9	750980.	46191.

Sample Name: SEQ-CCB Acquired: 11/11/2011 19:22:51 Type: QC
Method: DuoEnviroMethodNEW(v2461) Mode: CONC Corr. Factor: 1.000000
User: rburr Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Ag3280	Al3961	As1890	As1972	B_2496	Ba2335	Be3130	Ca3179
Units	ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppm
Avg	**-.26680**	**5.1660**	**.94373**	**.22126**	**.10327**	**.19140**	**.06610**	**.00867**
Stddev	.08116	6.0821	.86837	.64745	.32573	.11349	.01657	.00140
%RSD	30.420	117.73	92.015	292.62	315.43	59.294	25.072	16.141
#1	-.23371	2.1810	1.5007	.73381	.47855	.06681	.04903	.01019
#2	-.35927	1.1531	1.3874	-.50635	-.10604	.28887	.08213	.00837
#3	-.20741	12.164	-.05684	.43632	-.06271	.21853	.06714	.00744
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit								
Low Limit								

Elem	Cd2144	Cd2288	Co2286	Cr2677	Cu2199	Cu3247	Fe2611	K_7664
Units	ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppm
Avg	**.16943**	**-.02500**	**.12958**	**.18419**	**.6575**	**-.50313**	**2.6466**	**.00855**
Stddev	.04829	.08873	.08947	.03251	.6754	.13604	.4021	.01252
%RSD	28.502	354.92	69.047	17.651	102.7	27.039	15.194	146.32
#1	.11568	-.12577	.04849	.17557	.0350	-.62948	2.2429	.01209
#2	.20916	.00933	.11468	.15686	.5618	-.52077	3.0472	.01892
#3	.18345	.04143	.22556	.22014	1.376	-.35913	2.6498	-.00535
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit								
Low Limit								

Elem	Mg2790	Mn2576	Mo2020	Na5895	Ni2316	Pb2203	Sb2068	Se1960
Units	ppm	ppb	ppb	ppm	ppb	ppb	ppb	ppb
Avg	**-.00133**	**.43043**	**.80239**	**.03372**	**.40058**	**.48351**	**.13840**	**.75838**
Stddev	.00985	.02742	.05105	.00457	.10605	.52760	1.8387	.14656
%RSD	738.12	6.3714	6.3619	13.549	26.474	109.12	1328.6	19.325
#1	.00912	.46121	.81364	.02879	.52008	.35787	-.27112	.86066
#2	-.00266	.40861	.74666	.03455	.31768	.03007	-1.4610	.82400
#3	-.01046	.42146	.84687	.03782	.36398	1.0626	2.1474	.59048
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit								
Low Limit								

Sample Name: SEQ-CCB Acquired: 11/11/2011 19:22:51 Type: QC
Method: DuoEnviroMethodNEW(v2461) Mode: CONC Corr. Factor: 1.000000
User: rburr Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Sn1899	Sr4215	Ti3349	Tl1908	V_2924	Zn2062
Units	ppb	ppb	ppb	ppb	ppb	ppb
Avg	**.16976**	**.1356**	**.11215**	**.41247**	**.09758**	**.15815**
Stddev	.23363	.0693	.29993	.82349	.05231	.13077
%RSD	137.63	51.13	267.44	199.65	53.608	82.686
#1	.31030	.1647	.18399	-.04600	.15740	.01431
#2	.29891	.1857	-.21718	1.3632	.06039	.19028
#3	-.09994	.0565	.36964	-.07973	.07495	.26985
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit						
Low Limit						

Int. Std.	Sc1880	Sc3613	Sc3613-2
Units	Cts/S	Cts/S	Cts/S
Avg	2843.0	802980.	47263.
Stddev	14.6	5678.	170.
%RSD	.51260	.70710	.35888
#1	2852.3	804030.	47313.
#2	2850.6	796850.	47402.
#3	2826.3	808050.	47074.

Sample Name: 1K08018-BLK1 Acquired: 11/11/2011 19:27:28 Type: QC
Method: DuoEnviroMethodNEW(v2461) Mode: CONC Corr. Factor: 1.000000
User: rburr Custom ID1: Custom ID2: Custom ID3:
Comment: PBW110811B /4X

Elem	Ag3280	Al3961	As1890	As1972	B_2496	Ba2335	Be3130	Ca3179
Units	ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppm
Avg	**-.10840**	**3.4933**	**1.0187**	**.08157**	**.20899**	**.01190**	**.11391**	**.03749**
Stddev	.15747	1.1870	.5278	.80961	.12961	.05684	.03710	.00193
%RSD	145.28	33.981	51.810	992.49	62.014	477.65	32.567	5.1403
#1	-.03714	3.2518	1.3971	.98178	.33797	.07115	.13173	.03959
#2	-.28890	4.7825	1.2432	-.15016	.07876	-.04218	.13874	.03707
#3	.00086	2.4455	.41577	-.58690	.21025	.00673	.07127	.03580
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit								
Low Limit								

Elem	Cd2144	Cd2288	Co2286	Cr2677	Cu2199	Cu3247	Fe2611	K_7664
Units	ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppm
Avg	**.07103**	**-.00762**	**-.06592**	**1.2341**	**.4230**	**-.09638**	**8.4371**	**.03632**
Stddev	.01264	.02201	.07341	.0718	.3152	.09893	3.0061	.01642
%RSD	17.792	288.85	111.36	5.8216	74.50	102.64	35.630	45.207
#1	.06549	.00585	-.14553	1.3168	.6184	-.19728	11.886	.02251
#2	.06211	-.03302	-.00090	1.1878	.5913	.00044	7.0539	.05447
#3	.08549	.00431	-.05133	1.1976	.0594	-.09230	6.3715	.03198
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit								
Low Limit								

Elem	Mg2790	Mn2576	Mo2020	Na5895	Ni2316	Pb2203	Sb2068	Se1960
Units	ppm	ppb	ppb	ppm	ppb	ppb	ppb	ppb
Avg	**.01136**	**.92221**	**.30312**	**.05239**	**.96390**	**.07398**	**-.85882**	**-.31139**
Stddev	.00550	.09624	.07728	.00865	.06726	.34490	1.0529	1.0384
%RSD	48.423	10.436	25.495	16.517	6.9775	466.24	122.60	333.49
#1	.01057	1.0120	.21441	.06043	1.0044	.43824	.14390	.01681
#2	.00629	.93408	.35591	.05350	1.0010	.03127	-1.9556	.52330
#3	.01720	.82058	.33902	.04323	.88626	-.24758	-.76480	-1.4743
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit								
Low Limit								

Sample Name: 1K08018-BLK1 Acquired: 11/11/2011 19:27:28 Type: QC
Method: DuoEnviroMethodNEW(v2461) Mode: CONC Corr. Factor: 1.000000
User: rburr Custom ID1: Custom ID2: Custom ID3:
Comment: PBW110811B /4X

Elem	Sn1899	Sr4215	Ti3349	Tl1908	V_2924	Zn2062
Units	ppb	ppb	ppb	ppb	ppb	ppb
Avg	**.39231**	**.2344**	**-.18911**	**.08324**	**.07474**	**1.0817**
Stddev	.28432	.0689	.16878	.67014	.16053	.0507
%RSD	72.472	29.40	89.251	805.05	214.80	4.6910
#1	.45609	.1624	.00133	.23425	.03181	1.0879
#2	.63932	.2412	-.24846	.66500	.25237	1.0282
#3	.08152	.2997	-.32019	-.64952	-.05997	1.1291
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit						
Low Limit						

Int. Std.	Sc1880	Sc3613	Sc3613-2
Units	Cts/S	Cts/S	Cts/S
Avg	2909.4	807600.	47734.
Stddev	6.7	6476.	323.
%RSD	.23022	.80187	.67754
#1	2915.2	807990.	47909.
#2	2910.8	800940.	47933.
#3	2902.1	813870.	47361.

Sample Name: 1K08018-BS1 Acquired: 11/11/2011 19:32:05 Type: QC
Method: DuoEnviroMethodNEW(v2461) Mode: CONC Corr. Factor: 1.000000
User: rburr Custom ID1: Custom ID2: Custom ID3:
Comment: LCSW110811B /4X

Elem	Ag3280	Al3961	As1890	As1972	B_2496	Ba2335	Be3130
Units	ppb	ppb	ppb	ppb	ppb	ppb	ppb
Avg	**19.404**	**173.78**	**19.476**	**20.704**	**72.920**	**159.99**	**4.1467**
Stddev	.249	3.84	.743	1.659	.323	.64	.0160
%RSD	1.2819	2.2091	3.8138	8.0136	.44339	.40302	.38704
#1	19.617	172.47	20.247	18.863	73.252	159.62	4.1348
#2	19.464	178.11	18.765	21.164	72.901	159.62	4.1649
#3	19.131	170.78	19.417	22.085	72.606	160.74	4.1403
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value							
Range							

Elem	Ca3179	Cd2144	Cd2288	Co2286	Cr2677	Cu2199	Cu3247
Units	ppm	ppb	ppb	ppb	ppb	ppb	ppb
Avg	**2.4090**	**10.602**	**10.613**	**41.830**	**16.369**	**19.79**	**21.214**
Stddev	.0137	.019	.111	.120	.120	.16	.370
%RSD	.56748	.17686	1.0437	.28634	.73166	.7905	1.7424
#1	2.4064	10.586	10.486	41.718	16.262	19.91	20.924
#2	2.4238	10.622	10.682	41.815	16.346	19.61	21.087
#3	2.3969	10.597	10.673	41.956	16.498	19.83	21.630
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value							
Range							

Elem	Fe2611	K_7664	Mg2790	Mn2576	Mo2020	Na5895	Ni2316
Units	ppb	ppm	ppm	ppb	ppb	ppm	ppb
Avg	**79.622**	**2.3715**	F **1.9039**	**41.067**	**75.303**	**2.3489**	**40.207**
Stddev	2.035	.0102	.0077	.111	.343	.0062	.176
%RSD	2.5552	.43004	.40575	.27023	.45569	.26456	.43710
#1	79.391	2.3600	1.9010	41.158	75.009	2.3459	40.211
#2	77.713	2.3795	1.9127	41.099	75.219	2.3560	40.030
#3	81.762	2.3749	1.8980	40.943	75.680	2.3447	40.381
Check ?	Chk Pass	Chk Pass	Chk Fail	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value			2.4000				
Range			±-.36000				

Sample Name: 1K08018-BS1 Acquired: 11/11/2011 19:32:05 Type: QC
Method: DuoEnviroMethodNEW(v2461) Mode: CONC Corr. Factor: 1.000000
User: rburr Custom ID1: Custom ID2: Custom ID3:
Comment: LCSW110811B /4X

Elem	Pb2203	Sb2068	Se1960	Sn1899	Sr4215	Ti3349	Tl1908
Units	ppb	ppb	ppb	ppb	ppb	ppb	ppb
Avg	**21.038**	**20.397**	**19.210**	**79.726**	**83.31**	**80.669**	**19.802**
Stddev	.506	.157	.361	.258	.19	.271	.528
%RSD	2.4042	.77161	1.8776	.32303	.2264	.33653	2.6653
#1	21.441	20.255	19.167	79.569	83.40	80.829	19.648
#2	20.470	20.370	19.591	79.586	83.43	80.355	19.368
#3	21.202	20.566	18.873	80.024	83.09	80.822	20.390
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value							
Range							

Elem	V_2924	Zn2062
Units	ppb	ppb
Avg	**37.591**	**41.248**
Stddev	.285	.256
%RSD	.75945	.62175
#1	37.283	41.175
#2	37.846	41.035
#3	37.645	41.533
Check ?	Chk Pass	Chk Pass
Value		
Range		

Int. Std.	Sc1880	Sc3613	Sc3613-2
Units	Cts/S	Cts/S	Cts/S
Avg	2879.2	812120.	47877.
Stddev	14.6	2783.	124.
%RSD	.50567	.34266	.25885
#1	2887.8	815260.	48019.
#2	2887.5	811120.	47814.
#3	2862.4	809970.	47796.

Sample Name: 1109191-11 Acquired: 11/11/2011 19:38:31 Type: Unk
Method: DuoEnviroMethodNEW(v2461) Mode: CONC Corr. Factor: 1.000000
User: rburr Custom ID1: Custom ID2: Custom ID3:
Comment: TETRA /4X

Elem	Ag3280	Al3961	As1890	As1972	B_2496	Ba2335	Be3130	Ca3179
Units	ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppm
Avg	**-.19936**	**14.779**	**.40317**	**.15945**	**2.8686**	**.16936**	**-.00821**	**.06736**
Stddev	.12115	13.133	.76545	.94140	.4404	.03691	.02611	.00076
%RSD	60.771	88.866	189.86	590.40	15.352	21.796	318.14	1.1229
#1	-.09002	21.926	1.2868	1.2448	3.2599	.19538	.02193	.06808
#2	-.17846	22.788	-.01933	-.33090	2.3917	.18558	-.02387	.06657
#3	-.32960	-.37807	-.05791	-.43555	2.9542	.12711	-.02269	.06743

Elem	Cd2144	Cd2288	Co2286	Cr2677	Cu2199	Cu3247	Fe2611	K_7664
Units	ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppm
Avg	**.02822**	**-.06188**	**-.18797**	**.60878**	**1.409**	**1.1711**	**11.761**	**.02261**
Stddev	.04474	.04580	.11884	.02838	.270	.1336	1.209	.00393
%RSD	158.55	74.020	63.222	4.6623	19.19	11.406	10.283	17.387
#1	.01381	-.02332	-.06216	.57963	1.098	1.0825	12.863	.01967
#2	.07838	-.04981	-.29831	.61040	1.591	1.1060	10.467	.02110
#3	-.00755	-.11251	-.20343	.63632	1.538	1.3247	11.954	.02708

Elem	Mg2790	Mn2576	Mo2020	Na5895	Ni2316	Pb2203	Sb2068	Se1960
Units	ppm	ppb	ppb	ppm	ppb	ppb	ppb	ppb
Avg	**.00895**	**.67491**	**.19875**	**.05601**	**.19325**	**.21960**	**-.54171**	**-.29841**
Stddev	.00486	.03125	.05746	.00617	.04163	.45506	1.3013	.45942
%RSD	54.251	4.6296	28.910	11.007	21.543	207.22	240.22	153.96
#1	.00378	.64742	.26309	.06311	.22110	.53507	.92047	-.06613
#2	.01341	.70889	.18062	.05200	.14539	-.30205	-.97306	-.00152
#3	.00966	.66842	.15254	.05293	.21325	.42577	-1.5725	-.82759

Elem	Sn1899	Sr4215	Ti3349	Tl1908	V_2924	Zn2062
Units	ppb	ppb	ppb	ppb	ppb	ppb
Avg	**.33441**	**.4100**	**.57082**	**-.20214**	**.21898**	**1.7887**
Stddev	.19099	.0767	.35384	.07690	.06026	.0484
%RSD	57.113	18.70	61.988	38.045	27.520	2.7082
#1	.28343	.3457	.95529	-.27847	.24016	1.7330
#2	.17409	.3894	.25883	-.20326	.26580	1.8210
#3	.54573	.4948	.49836	-.12468	.15099	1.8120

Sample Name: 1109191-11 Acquired: 11/11/2011 19:38:31 Type: Unk
Method: DuoEnviroMethodNEW(v2461) Mode: CONC Corr. Factor: 1.000000
User: rburr Custom ID1: Custom ID2: Custom ID3:
Comment: TETRA /4X

Int. Std.	Sc1880	Sc3613	Sc3613-2
Units	Cts/S	Cts/S	Cts/S
Avg	2879.1	809030.	47742.
Stddev	11.6	7107.	128.
%RSD	.40164	.87845	.26805
#1	2881.9	817000.	47617.
#2	2889.0	806720.	47872.
#3	2866.4	803360.	47738.

Sample Name: SEQ-CCV Acquired: 11/11/2011 20:25:13 Type: QC
Method: DuoEnviroMethodNEW(v2461) Mode: CONC Corr. Factor: 1.000000
User: rburr Custom ID1: Custom ID2: Custom ID3:
Comment: 11K0392

Elem	Ag3280	Al3961	As1890	As1972	B_2496	Ba2335	Be3130
Units	ppb	ppb	ppb	ppb	ppb	ppb	ppb
Avg	**470.71**	**9704.2**	**1042.2**	F **1122.5**	**974.62**	**1017.9**	**959.63**
Stddev	3.54	28.3	3.5	5.0	9.73	5.4	1.95
%RSD	.75263	.29201	.33410	.44794	.99797	.52682	.20300
#1	470.87	9672.0	1040.9	1124.1	977.79	1016.3	959.22
#2	467.08	9715.3	1039.5	1116.8	963.70	1013.5	957.91
#3	474.16	9725.3	1046.1	1126.4	982.36	1023.9	961.74
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Fail	Chk Pass	Chk Pass	Chk Pass
Value				1000.0			
Range				±100.00			

Elem	Ca3179	Cd2144	Cd2288	Co2286	Cr2677	Cu2199	Cu3247
Units	ppm	ppb	ppb	ppb	ppb	ppb	ppb
Avg	**49.169**	**1050.8**	**1061.2**	**1073.7**	**998.45**	**969.9**	**1076.9**
Stddev	.116	4.8	4.3	5.9	10.90	10.4	8.6
%RSD	.23506	.45930	.40921	.55049	1.0915	1.074	.79446
#1	49.284	1048.1	1059.6	1072.1	1000.0	973.5	1074.6
#2	49.169	1047.9	1057.9	1068.8	986.84	958.1	1069.7
#3	49.053	1056.3	1066.1	1080.3	1008.5	978.0	1086.4
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value							
Range							

Elem	Fe2611	K_7664	Mg2790	Mn2576	Mo2020	Na5895	Ni2316
Units	ppb	ppm	ppm	ppb	ppb	ppm	ppb
Avg	**9551.8**	**9.6318**	F **38.021**	**972.84**	**1040.8**	**47.398**	**1009.0**
Stddev	32.6	.0169	.154	10.86	4.7	.296	3.9
%RSD	.34154	.17510	.40397	1.1159	.45509	.62409	.38264
#1	9523.6	9.6462	37.890	975.53	1038.5	47.127	1007.5
#2	9544.4	9.6132	37.984	960.89	1037.7	47.353	1006.0
#3	9587.5	9.6360	38.190	982.09	1046.3	47.713	1013.3
Check ?	Chk Pass	Chk Pass	Chk Fail	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value			50.000				
Range			±-5.0000				

Sample Name: SEQ-CCV Acquired: 11/11/2011 20:25:13 Type: QC
Method: DuoEnviroMethodNEW(v2461) Mode: CONC Corr. Factor: 1.000000
User: rburr Custom ID1: Custom ID2: Custom ID3:
Comment: 11K0392

Elem	Pb2203	Sb2068	Se1960	Sn1899	Sr4215	Ti3349	Tl1908
Units	ppb	ppb	ppb	ppb	ppb	ppb	ppb
Avg	**1034.5**	F **1129.9**	**1072.9**	**1040.7**	**1030.**	**1026.5**	**988.64**
Stddev	7.1	7.4	4.8	5.8	5.	2.5	3.80
%RSD	.68447	.65292	.44335	.55608	.4484	.24555	.38396
#1	1032.9	1124.7	1071.2	1037.6	1034.	1028.5	986.16
#2	1028.4	1126.7	1069.2	1037.2	1032.	1027.4	986.75
#3	1042.3	1138.3	1078.3	1047.4	1025.	1023.7	993.01
Check ?	Chk Pass	Chk Fail	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value		1000.0					
Range		±100.00					

Elem	V_2924	Zn2062
Units	ppb	ppb
Avg	**990.56**	**1045.3**
Stddev	10.68	5.3
%RSD	1.0786	.50243
#1	992.49	1042.6
#2	979.04	1041.9
#3	1000.1	1051.3
Check ?	Chk Pass	Chk Pass
Value		
Range		

Int. Std.	Sc1880	Sc3613	Sc3613-2
Units	Cts/S	Cts/S	Cts/S
Avg	2581.5	771890.	46978.
Stddev	10.4	6795.	293.
%RSD	.40328	.88029	.62300
#1	2587.2	769790.	47281.
#2	2587.9	779490.	46697.
#3	2569.5	766390.	46957.

Sample Name: SEQ-CCB Acquired: 11/11/2011 20:32:28 Type: QC
Method: DuoEnviroMethodNEW(v2461) Mode: CONC Corr. Factor: 1.000000
User: rburr Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Ag3280	Al3961	As1890	As1972	B_2496	Ba2335	Be3130	Ca3179
Units	ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppm
Avg	**-.15108**	**6.2288**	**.58907**	**.96711**	**-.25441**	**.24844**	**.16292**	**.05031**
Stddev	.20511	6.0742	.16541	1.3209	.27529	.01715	.03901	.01378
%RSD	135.76	97.517	28.080	136.59	108.21	6.9040	23.942	27.382
#1	-.30217	.82783	.73261	2.4450	.06098	.24728	.12163	.03480
#2	.08242	5.0541	.40818	-.09870	-.44652	.26614	.16800	.05503
#3	-.23349	12.805	.62641	.55510	-.37768	.23190	.19914	.06112
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit								
Low Limit								

Elem	Cd2144	Cd2288	Co2286	Cr2677	Cu2199	Cu3247	Fe2611	K_7664
Units	ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppm
Avg	**.22339**	**-.01762**	**.13606**	**.20908**	**-.0645**	**-.46342**	**6.6671**	**.03486**
Stddev	.04936	.06040	.04207	.14724	.8228	.13615	2.0813	.01169
%RSD	22.095	342.78	30.922	70.423	1275.	29.379	31.217	33.520
#1	.25843	.02751	.17812	.37879	-.3001	-.59055	8.8761	.02701
#2	.24479	-.08624	.09397	.13304	-.7438	-.31976	6.3821	.04829
#3	.16694	.00587	.13610	.11540	.8504	-.47996	4.7430	.02929
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit								
Low Limit								

Elem	Mg2790	Mn2576	Mo2020	Na5895	Ni2316	Pb2203	Sb2068	Se1960
Units	ppm	ppb	ppb	ppm	ppb	ppb	ppb	ppb
Avg	**.00538**	**.34067**	**.83013**	**.05702**	**.36901**	**.81234**	**-.16763**	**-.48422**
Stddev	.00241	.05322	.07547	.01857	.07192	.85842	.77527	.56267
%RSD	44.871	15.623	9.0909	32.572	19.491	105.67	462.50	116.20
#1	.00273	.40128	.90898	.04641	.44971	1.6883	.57054	-.36301
#2	.00745	.31913	.75857	.07847	.34563	-.02743	-.97531	.00797
#3	.00596	.30159	.82284	.04619	.31168	.77616	-.09811	-1.0976
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit								
Low Limit								

Sample Name: SEQ-CCB Acquired: 11/11/2011 20:32:28 Type: QC
Method: DuoEnviroMethodNEW(v2461) Mode: CONC Corr. Factor: 1.000000
User: rburr Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Sn1899	Sr4215	Ti3349	Tl1908	V_2924	Zn2062
Units	ppb	ppb	ppb	ppb	ppb	ppb
Avg	**.32727**	**.4162**	**.63543**	**.31862**	**.34577**	**.16301**
Stddev	.17753	.0780	.19848	.60432	.06697	.00828
%RSD	54.247	18.73	31.235	189.67	19.367	5.0804
#1	.29694	.3445	.48937	-.27377	.41822	.15389
#2	.51801	.4992	.55551	.29542	.33296	.16507
#3	.16685	.4050	.86141	.93420	.28614	.17006
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit						
Low Limit						

Int. Std.	Sc1880	Sc3613	Sc3613-2
Units	Cts/S	Cts/S	Cts/S
Avg	2802.6	792030.	46153.
Stddev	5.6	5217.	270.
%RSD	.19981	.65864	.58475
#1	2797.3	786280.	46008.
#2	2808.4	796470.	45988.
#3	2802.1	793330.	46465.

Mercury

Client:

TETRA
SHAW
JACOBS
CH2M HILL
METRO

Curve Date: 9/29/2011 Curve age OK

Correlation: 0.99986 Corr. OK

Slope: 0.012587
Intercept: 0.0002

RL= 0.20 ug/l for H2O and TCLP
0.033 mg/kg (using 0.30 g) for soils or other
MDL= 0.08 ug/L WATER AND 0.013 mg/Kg SOIL
QC Criteria: Method Blank < 1/2 RL for CORP Samples
LCS = ±20% of True Value
CCB =<MDL

Curve Data			
Analysis Time	Conc.(ug/L)	Pk Height	Cal. ID
14:13:01	0	0.00015	11I0858
14:13:54	0.2	0.00244	11I0859
14:15:05	0.5	0.00632	11I0860
14:16:18	1	0.01281	11I0861
14:17:31	2	0.02535	11I0862
14:18:46	4	0.05212	11I0863
14:20:02	6	0.07460	11I0864
14:21:19	10	0.12613	11I0865

Empirical Laboratories ries

Digestion Date: 9/28/2011
Digestion by: KH
Analysis Date: 9/28/2011
Analyst: KH
Analyst Authorization: KH
Method#: 245.1/7470A for H2O
7471A for soils
Method Type: Cold Vapor
Batch: 11I28009 1I28010
SEQ: 1I27214
CAL ID: 1272004

Concentration (ug/L) = (Peak Height - intercept)/slope * dilution
Conversion for soils from concentration (ug/L) to mg/kg (wet weight) = concentration (ug/L) * final volume (mL)/initial weight (g) * 1L/1000mL * 1000g/1kg * 1g/1000mg

Lab. #	Client	Waste Description	T.V. (ug/L) (mg/kg)	Analysis Time HH:MM (Military)	Matrix Type	Digestion Initial Sample Volume	Digestion Final Sample Volume (mL)	Analysis Initial Sample Volume (mL)	Analysis Final Sample Volume (mL)	Dilution	Peak Height	[Hg] ug/L	[Hg] mg/kg	Recovery %	Control Limits Low Limit %	Control Limits High Limit %	RPD	Block	Method
SEQ-CAL1	QC	11I0858		14:13:01	H2O	30.00	30.0	30.0	30.0	1.00	0.00015	-0.00414						A	7470A
SEQ-CAL2	QC	11I0859		14:13:54	H2O	30.00	30.0	30.0	30.0	1.00	0.00244	0.17762						A	7470A
SEQ-CAL3	QC	11I0860		14:15:05	H2O	30.00	30.0	30.0	30.0	1.00	0.00632	0.48589						A	7470A
SEQ-CAL4	QC	11I0861		14:16:18	H2O	30.00	30.0	30.0	30.0	1.00	0.01281	1.00194						A	7470A
SEQ-CAL5	QC	11I0862		14:17:31	H2O	30.00	30.0	30.0	30.0	1.00	0.02535	1.99814						A	7470A
SEQ-CAL6	QC	11I0863		14:18:46	H2O	30.00	30.0	30.0	30.0	1.00	0.05212	4.12466						A	7470A
SEQ-CAL7	QC	11I0864		14:20:02	H2O	30.00	30.0	30.0	30.0	1.00	0.07460	5.91106						A	7470A
SEQ-CAL8	QC	11I0865		14:21:19	H2O	30.00	30.0	30.0	30.0	1.00	0.12613	10.00483						A	7470A
SEQ-ICV	QC	11I0866	4.0000	14:23:27	H2O	30.00	30.0	30.0	30.0	1.00	0.04784	3.78481		94.62	90.0	110.0		A	7470A
SEQ-ICB	QC	DI H2O		14:24:39	H2O	30.00	30.0	30.0	30.0	1.00	0.00019	-0.00113						A	7470A
SEQ-CRL	QC	11I0859	0.2000	14:25:31	H2O	30.00	30.0	30.0	30.0	1.00	0.00234	0.17024		85.12	70.0	130.0		A	7470A
1I28009-BS1	QC	11D0442	2.0000	14:26:43	H2O	30.00	30.0	30.0	30.0	1.00	0.02641	2.08258		104.13	80.0	120.0		A	7470A
1I28009-BLK1	QC	DI H2O		14:27:56	H2O	30.00	30.0	30.0	30.0	1.00	0.00016	-0.00337						A	7470A
1109128-09	TETRA			14:28:48	TCLP	3.00	30.0	30.0	30.0	10.00	0.00017	-0.02446						A	7470A
1109146-01				14:29:41	TCLP	3.00	30.0	30.0	30.0	10.00	0.00015	-0.04146						A	7470A
1109146-02	CH2M HILL			14:30:34	TCLP	3.00	30.0	30.0	30.0	10.00	0.00013	-0.05481						A	7470A
1I28009-MS1	CH2M HILL	11D0442	20.0000	14:31:30	TCLP	3.00	30.0	30.0	30.0	10.00	0.02428	19.13063		95.65	80.0	120.0	14.8	A	7470A
1I28009-MSD1	CH2M HILL	11D0442	20.0000	14:32:40	TCLP	3.00	30.0	30.0	30.0	10.00	0.02814	22.19589		110.98	80.0	120.0		A	7470A
1109149-01	SHAW			14:33:51	TCLP	3.00	30.0	30.0	30.0	10.00	0.00016	-0.02951						A	7470A
1109149-02	SHAW			14:34:43	TCLP	3.00	30.0	30.0	30.0	10.00	0.00015	-0.04271						A	7470A
SEQ-CCV	QC	11I0863	4.0000	14:35:35	H2O	30.00	30.0	30.0	30.0	1.00	0.04840	3.82910		95.73	85.0	115.0		A	7470A
SEQ-CCB	QC	DI H2O		14:36:47	H2O	30.00	30.0	30.0	30.0	1.00	0.00017	-0.00244						A	7470A
1I28009-MS2	SHAW	11ID	20.0000	14:37:39	TCLP	3.00	30.0	30.0	30.0	10.00	0.02713	21.39147		106.96	80.0	120.0		A	7470A
1I28009-MSD2	SHAW	11D0442	20.0000	14:38:52	TCLP	3.00	30.0	30.0	30.0	10.00	0.02616	20.62128		103.11	80.0	120.0	3.67	A	7470A
1109149-03	SHAW			14:40:05	TCLP	3.00	30.0	30.0	30.0	10.00	0.00011	-0.07346						A	7470A
1109149-04	SHAW			14:40:57	TCLP	3.00	30.0	30.0	30.0	10.00	0.00014	-0.04932						A	7470A
1109154-01	SHAW			14:41:49	TCLP	3.00	30.0	30.0	30.0	10.00	0.00010	-0.07549						A	7470A
1109155-01	METRO			14:42:41	TCLP	3.00	30.0	30.0	30.0	10.00	0.00025	0.03767						A	7470A
1109155-02	METRO			14:43:56	TCLP	3.00	30.0	30.0	30.0	10.00	0.00044	0.19191						A	7470A
1109155-03	METRO			14:45:11	TCLP	3.00	30.0	30.0	30.0	10.00	0.00019	-0.01052						A	7470A
~~1I28009-MS3~~	~~METRO~~	~~11D0442~~	~~20.0000~~	~~14:46:04~~	~~TCLP~~	~~3.00~~	~~30.0~~	~~30.0~~	~~30.0~~	~~10.00~~	~~0.00194~~	~~1.38242~~	-	~~6.91~~	~~80.0~~	~~120.0~~		A	7470A
1I28009-MSD3	METRO	11D0442	20.0000	14:47:17	TCLP	3.00	30.0	30.0	30.0	10.00	0.02513	19.80543		99.03	80.0	120.0	2.7	A	7470A
SEQ-CCV	QC	11I0863	4.0000	14:48:26	H2O	30.00	30.0	30.0	30.0	1.00	0.04856	3.84200		96.05	85.0	115.0		A	7470A

2nd BLQ 9/29/11

092911W

1837

1109191

Lab. #	Client	Waste Description	T.V. (ug/L) (mg/kg)	Analysis Time HH:MM (Military)	Matrix Type	Digestion		Analysis		Dilution	Peak Height	[Hg] ug/L	[Hg] mg/kg	Recovery %	Control Limits		RPD	Block	Method
						Initial Sample Volume	Final Sample Volume (mL)	Initial Sample Volume (mL)	Final Sample Volume (mL)						Low Limit %	High Limit %			
SEQ-CCB	QC	DI H2O		14:49:36	H2O	30.00	30.0	30.0	30.0	1.00	0.00011	-0.00729						A	7470A
1109170-01	JACOBS			14:50:28	TCLP	3.00	30.0	30.0	30.0	10.00	0.00015	-0.03805						A	7470A
1I28009-MS4	JACOBS	11D0442	40.0000	14:51:20	TCLP	3.00	30.0	30.0	30.0	10.00	0.05124	40.55238		101.38	80.0	120.0		A	7470A
1I28009-MSD4	JACOBS	11D0442	40.0000	14:52:31	TCLP	3.00	30.0	30.0	30.0	10.00	0.05093	40.30616		100.77	80.0	120.0	0.609	A	7470A
1I28010-BS1	QC	11D0442	2.0000	14:53:42	H2O	30.00	30.0	30.0	30.0	1.00	0.02562	2.01974		100.99	80.0	120.0		A	7470A
1I28010-BLK1	QC	DI H2O		14:54:55	H2O	30.00	30.0	30.0	30.0	1.00	0.00015	-0.00401						A	7470A
1109081-01	SHAW			14:55:46	H2O	30.00	30.0	30.0	30.0	1.00	0.00016	-0.00307						A	7470A
1109081-02	SHAW			14:56:39	H2O	30.00	30.0	30.0	30.0	1.00	0.00016	-0.00310						A	7470A
1109081-03	SHAW			14:57:31	H2O	30.00	30.0	30.0	30.0	1.00	0.00017	-0.00275						A	7470A
1109081-04	SHAW			14:58:23	H2O	30.00	30.0	30.0	30.0	1.00	0.00021	0.00048						A	7470A
1I28010-MS1	SHAW	11D0442	2.0000	14:59:16	H2O	30.00	30.0	30.0	30.0	1.00	0.02395	1.88661		94.33	80.0	120.0		A	7470A
SEQ-CCV	QC	11I0862	2.0000	15:00:31	H2O	30.00	30.0	30.0	30.0	1.00	0.02314	1.82224		91.11	85.0	115.0		A	7470A
SEQ-CCB	QC	DI H2O		15:01:46	H2O	30.00	30.0	30.0	30.0	1.00	0.00005	-0.01200						A	7470A
1I28010-MSD1	SHAW	11D0442	2.0000	15:02:38	H2O	30.00	30.0	30.0	30.0	1.00	0.02628	2.07181		103.59	80.0	120.0	9.36	A	7470A
1109081-05	SHAW			15:03:50	H2O	30.00	30.0	30.0	30.0	1.00	0.00019	-0.00049						A	7470A
1109081-06	SHAW			15:04:43	H2O	30.00	30.0	30.0	30.0	1.00	0.00023	0.00276						A	7470A
1109081-07	SHAW			15:05:52	H2O	30.00	30.0	30.0	30.0	1.00	0.00030	0.00772						A	7470A
1109094-02	SHAW			15:07:01	H2O	30.00	30.0	30.0	30.0	1.00	0.00018	-0.00165						A	7470A
1109104-01	SHAW			15:07:54	H2O	30.00	30.0	30.0	30.0	1.00	0.00016	-0.00297						A	7470A
1109140-01	SHAW			15:08:46	H2O	30.00	30.0	30.0	30.0	1.00	0.00066	0.03639						A	7470A
1109141-01	SHAW			15:09:58	H2O	30.00	30.0	30.0	30.0	1.00	0.00029	0.00740						A	7470A
1109142-01	SHAW			15:11:10	H2O	30.00	30.0	30.0	30.0	1.00	0.00015	-0.00424						A	7470A
1109191-10	TETRA			15:12:03	H2O	30.00	30.0	30.0	30.0	1.00	0.00019	-0.00088						A	7470A
SEQ-CCV	QC	11I0862	2.0000	15:12:55	H2O	30.00	30.0	30.0	30.0	1.00	0.02300	1.81147		90.57	85.0	115.0		A	7470A
SEQ-CCB	QC	DI H2O		15:14:08	H2O	30.00	30.0	30.0	30.0	1.00	0.00014	-0.00472						A	7470A
1109192-12	TETRA			15:15:01	H2O	30.00	30.0	30.0	30.0	1.00	0.00011	-0.00684						A	7470A
1109195-01	SHAW			15:15:53	H2O	30.00	30.0	30.0	30.0	1.00	0.00016	-0.00288						A	7470A
1109198-01	SHAW			15:16:45	H2O	30.00	30.0	30.0	30.0	1.00	0.00027	0.00593						A	7470A
1109198-02	SHAW			15:18:00	H2O	30.00	30.0	30.0	30.0	1.00	0.00042	0.01760						A	7470A
1109198-03	SHAW			15:19:11	H2O	30.00	30.0	30.0	30.0	1.00	0.00021	0.00096						A	7470A
1109198-04	SHAW			15:20:21	H2O	30.00	30.0	30.0	30.0	1.00	0.00024	0.00282						A	7470A
1109198-05	SHAW			15:21:30	H2O	30.00	30.0	30.0	30.0	1.00	0.00023	0.00236						A	7470A
1109138-01	SHAW			15:22:39	TCLP	3.00	30.0	30.0	30.0	10.00	0.00014	-0.05124						A	7470A
SEQ-CRL	QC	11I0859	0.2000	15:23:32	H2O	30.00	30.0	30.0	30.0	1.00	0.00243	0.17700		88.50	70.0	130.0		A	7470A
SEQ-CCV	QC	11I0863	4.0000	15:24:43	H2O	30.00	30.0	30.0	30.0	1.00	0.04876	3.85761		96.44	85.0	115.0		A	7470A
SEQ-CCB	QC	DI H2O		15:25:54	H2O	30.00	30.0	30.0	30.0	1.00	0.00013	-0.00580						A	7470A
1I28009-MS3	METRO	11D0442	20.0000	15:32:00	TCLP	3.00	30.0	30.0	30.0	10.00	0.02446	19.27688		96.38	80.0	120.0		A	7470A
SEQ-CRL	QC	11I0859	0.2000	15:34:46	H2O	30.00	30.0	30.0	30.0	1.00	0.00249	0.18206		91.03	70.0	130.0		A	7470A
SEQ-CCV	QC	11I0863	4.0000	15:35:56	H2O	30.00	30.0	30.0	30.0	1.00	0.04869	3.85213		96.30	85.0	115.0		A	7470A
SEQ-CCB	QC	DI H2O		15:37:08	H2O	30.00	30.0	30.0	30.0	1.00	0.00010	-0.00773						A	7470A

BS1: 0.3mls of 11D0442 diluted to 30mls DI H2O final volume.

BLK1: 30mls of DI H2O final volume.

1I28009-MS3 crossed out, was rerun because posssibly the autosampler did not draw enough to analyse the first time.

1838

1109191

Mercury

Client:

TETRA
SHAW

Curve Date: 10/7/2011 Curve age OK

Correlation: 0.99999 Corr. OK

Slope: 0.017462
Intercept: -0.00034

RL= 0.20 ug/l for H2O and TCLP
0.033 mg/kg (using 0.30 g) for soils or other
MDL= 0.08 ug/L WATER AND 0.013 mg/Kg SOIL
QC Criteria: Method Blank < 1/2 RL for CORP Samples
LCS = ±20% of True Value
CCB =<MDL

Curve Data			
Analysis Time	Conc.(ug/L)	Pk Height	Cal. ID
11:51:47	0	0.00020	11J0220
11:52:39	0.2	0.00314	11J0221
11:53:50	0.5	0.00839	11J0222
11:55:02	1	0.01712	11J0223
11:56:15	2	0.03436	11J0224
11:57:30	4	0.06901	11J0225
11:58:45	6	0.10433	11J0226
12:00:01	10	0.17459	11J0227

Empirical Laboratories ıtories

Digestion Date: 10/7/1977
Digestion by: KH
Analysis Date: 10/7/2011
Analyst: KH
Analyst Authorization: KH
Method#: 245.1/7470A for H2O
7471A for soils
Method Type: Cold Vapor
Batch: 1J07003 1J07004 1J07005
SEQ: 1J28407
CAL ID 1284004

Concentration (ug/L) = (Peak Height - intercept)/slope * dilution
Conversion for soils from concentration (ug/L) to mg/kg (wet weight) = concentration (ug/L) * final volume (mL)/initial weight (g) * 1L/1000mL * 1000g/1kg * 1g/1000mg

Lab. #	Client	Waste Description	T.V. (ug/L) (mg/kg)	Analysis Time HH:MM (Military)	Matrix Type	Digestion Initial Sample Volume	Digestion Final Sample Volume (mL)	Analysis Initial Sample Volume (mL)	Analysis Final Sample Volume (mL)	Dilution	Peak Height	[Hg] ug/L	[Hg] mg/kg	Recovery %	Control Limits Low Limit %	Control Limits High Limit %	RPD	Block	Method
SEQ-CAL1	QC	11J0220		11:51:47	H2O	50.00	50.0	50.0	50.0	1.00	0.00020	0.03104						A	7471A
SEQ-CAL2	QC	11J0221		11:52:39	H2O	50.00	50.0	50.0	50.0	1.00	0.00314	0.19909						A	7471A
SEQ-CAL3	QC	11J0222		11:53:50	H2O	50.00	50.0	50.0	50.0	1.00	0.00839	0.50006						A	7471A
SEQ-CAL4	QC	11J0223		11:55:02	H2O	50.00	50.0	50.0	50.0	1.00	0.01712	0.99967						A	7471A
SEQ-CAL5	QC	11J0224		11:56:15	H2O	50.00	50.0	50.0	50.0	1.00	0.03436	1.98691						A	7471A
SEQ-CAL6	QC	11J0225		11:57:30	H2O	50.00	50.0	50.0	50.0	1.00	0.06901	3.97156						A	7471A
SEQ-CAL7	QC	11J0226		11:58:45	H2O	50.00	50.0	50.0	50.0	1.00	0.10433	5.99408						A	7471A
SEQ-CAL8	QC	11J0227		12:00:01	H2O	50.00	50.0	50.0	50.0	1.00	0.17459	10.01759						A	7471A
SEQ-ICV	QC	11J0228	4.0000	12:09:27	H2O	50.00	50.0	50.0	50.0	1.00	0.07379	4.24484		106.12	90.0	110.0		A	7471A
SEQ-ICB	QC	DI H2O		12:10:38	H2O	50.00	50.0	50.0	50.0	1.00	0.00017	0.02943						A	7471A
SEQ-CRL	QC	11J0221	0.2000	12:11:49	H2O	50.00	50.0	50.0	50.0	1.00	0.00316	0.20040		100.20	70.0	130.0		A	7471A
1J07003-BS1	QC	11D0442	0.3333	12:13:00	SOIL	0.30	50.0	50.0	50.0	1.00	0.03606	2.08462	0.34744	104.24	80.0	120.0		A	7471A
1J07003-BLK1	QC	DI H2O		12:14:12	SOIL	0.30	50.0	50.0	50.0	1.00	0.00011	0.02572	0.00429					A	7471A
1109177-01	SHAW			12:15:25	SOIL	0.32	50.0	50.0	50.0	1.00	0.00318	0.20173	0.03152					A	7471A
1109177-02	SHAW			12:16:40	SOIL	0.32	50.0	50.0	50.0	1.00	0.00565	0.34320	0.05362					A	7471A
1109177-03	SHAW			12:17:57	SOIL	0.33	50.0	50.0	50.0	1.00	0.00753	0.45078	0.06830					A	7471A
1109177-04	SHAW			12:19:10	SOIL	0.37	50.0	50.0	50.0	1.00	0.00308	0.19585	0.02647					A	7471A
1109177-05	SHAW			12:20:19	SOIL	0.30	50.0	50.0	50.0	1.00	0.00824	0.49135	0.08189					A	7471A
1109177-06	SHAW			12:21:30	SOIL	0.36	50.0	50.0	50.0	1.00	0.00604	0.36512	0.05071					A	7471A
1109177-07	SHAW			12:22:40	SOIL	0.31	50.0	50.0	50.0	1.00	0.00293	0.18728	0.03021					A	7471A
SEQ-CCV	QC	11J0225	4.0000	12:23:51	H2O	50.00	50.0	50.0	50.0	1.00	0.07078	4.07249		101.81	90.0	110.0		A	7471A
SEQ-CCB	QC	DI H2O		12:25:02	H2O	50.00	50.0	50.0	50.0	1.00	0.00013	0.02694						A	7471A
1109177-08	SHAW			12:26:14	SOIL	0.28	50.0	50.0	50.0	1.00	0.00435	0.26849	0.04794					A	7471A
1109177-09	SHAW			12:27:27	SOIL	0.33	50.0	50.0	50.0	1.00	0.00354	0.22206	0.03385					A	7471A
1109177-10	SHAW			12:28:40	SOIL	0.32	50.0	50.0	50.0	1.00	0.00221	0.14598	0.02281					A	7471A
1J07003-MS1	SHAW	11D0442	0.3226	12:29:53	SOIL	0.31	50.0	50.0	50.0	1.00	0.03719	2.14943	0.34668	100.00	80.0	120.0	0.85	A	7471A
1J07003-MSD1	SHAW	11D0442	0.3125	12:31:08	SOIL	0.32	50.0	50.0	50.0	1.00	0.03809	2.20043	0.34382	103.00	80.0	120.0		A	7471A
1109177-11	SHAW			12:32:23	SOIL	0.34	50.0	50.0	50.0	1.00	0.00166	0.11438	0.01682					A	7471A
1109177-12	SHAW			12:33:39	SOIL	0.29	50.0	50.0	50.0	1.00	0.00376	0.23466	0.04046					A	7471A
1109177-13	SHAW			12:34:54	SOIL	0.29	50.0	50.0	50.0	1.00	0.00877	0.52159	0.08993					A	7471A
1109177-14	SHAW			12:36:10	SOIL	0.36	50.0	50.0	50.0	1.00	0.00793	0.47349	0.06576					A	7471A
1109177-15	SHAW			12:37:23	SOIL	0.30	50.0	50.0	50.0	1.00	0.00502	0.30690	0.05115					A	7471A
SEQ-CCV	QC	11J0225	4.0000	12:38:32	H2O	50.00	50.0	50.0	50.0	1.00	0.07119	4.09598		102.40	85.0	115.0		A	7471A

1839

1109191

2nd r KBC 10/11/11

100711S

Lab. #	Client	Waste Description	T.V. (ug/L) (mg/kg)	Analysis Time HH:MM (Military)	Matrix Type	Digestion Initial Sample Volume	Digestion Final Sample Volume (mL)	Analysis Initial Sample Volume (mL)	Analysis Final Sample Volume (mL)	Dilution	Peak Height	[Hg] ug/L	[Hg] mg/kg	Recovery %	Control Limits Low Limit %	Control Limits High Limit %	RPD	Block	Method
SEQ-CCB	QC	DI H2O		12:39:42	H2O	50.00	50.0	50.0	50.0	1.00	0.00019	0.03059						A	7471A
1109177-16	SHAW			12:40:53	SOIL	0.39	50.0	50.0	50.0	1.00	0.00726	0.43530	0.05581					A	7471A
1109177-17	SHAW			12:42:03	SOIL	0.37	50.0	50.0	50.0	1.00	0.00514	0.31397	0.04243					A	7471A
1109177-18	SHAW			12:43:15	SOIL	0.35	50.0	50.0	50.0	1.00	0.00344	0.21628	0.03090					A	7471A
1109177-19	SHAW			12:44:27	SOIL	0.30	50.0	50.0	50.0	1.00	0.00131	0.09419	0.01570					A	7471A
1109191-01	TETRA			12:45:38	SOIL	0.34	50.0	50.0	50.0	1.00	0.00059	0.05345	0.00786					A	7471A
1J07004-BS1	QC	11D0442	0.3333	12:46:51	SOIL	0.30	50.0	50.0	50.0	1.00	0.03469	2.00627	0.33438	100.32	80.0	120.0		A	7471A
1J07004-BLK1	QC			12:48:03	SOIL	0.30	50.0	50.0	50.0	1.00	0.00014	0.02753	0.00459					A	7471A
1109191-02	TETRA			12:49:16	SOIL	0.29	50.0	50.0	50.0	1.00	0.00049	0.04725	0.00815					A	7471A
1J07004-MS1	TETRA	11D0442	0.3125	12:50:29	SOIL	0.32	50.0	50.0	50.0	1.00	0.03606	2.08441	0.32569	104.22	80.0	120.0	9.75	A	7471A
1J07004-MSD1	TETRA	11D0442	0.3333	12:51:44	SOIL	0.30	50.0	50.0	50.0	1.00	0.03728	2.15447	0.35908	107.73	80.0	120.0		A	7471A
SEQ-CCV	QC	11J0224	2.0000	12:52:59	H2O	50.00	50.0	50.0	50.0	1.00	0.03414	1.97464		98.73	85.0	115.0		A	7471A
SEQ-CCB	QC	DI H2O		12:54:14	H2O	50.00	50.0	50.0	50.0	1.00	0.00018	0.02984						A	7471A
1109191-03	TETRA			12:55:30	SOIL	0.31	50.0	50.0	50.0	1.00	0.00028	0.03545	0.00572					A	7471A
1109191-04	TETRA			12:56:42	SOIL	0.31	50.0	50.0	50.0	1.00	0.00131	0.09441	0.01523					A	7471A
1109191-05	TETRA			12:57:51	SOIL	0.38	50.0	50.0	50.0	1.00	0.00112	0.08371	0.01101					A	7471A
1109191-06	TETRA			12:59:01	SOIL	0.38	50.0	50.0	50.0	1.00	0.00071	0.05989	0.00788					A	7471A
1109192-01	TETRA			13:00:10	SOIL	0.40	50.0	50.0	50.0	1.00	0.00080	0.06551	0.00819					B	7471A
1109192-02	TETRA			13:01:21	SOIL	0.37	50.0	50.0	50.0	1.00	0.00053	0.04994	0.00675					B	7471A
1109192-03	TETRA			13:02:32	SOIL	0.37	50.0	50.0	50.0	1.00	0.00058	0.05279	0.00713					B	7471A
1109192-04	TETRA			13:03:44	SOIL	0.30	50.0	50.0	50.0	1.00	0.00093	0.07282	0.01214					B	7471A
1109192-05	TETRA			13:04:55	SOIL	0.30	50.0	50.0	50.0	1.00	0.00153	0.10736	0.01789					B	7471A
1109192-06	TETRA			13:06:07	SOIL	0.33	50.0	50.0	50.0	1.00	0.00061	0.05431	0.00823					B	7471A
SEQ-CCV	QC	11J0224	2.0000	13:07:20	H2O	50.00	50.0	50.0	50.0	1.00	0.03457	1.99899		99.95	85.0	115.0		A	7471A
SEQ-CCB	QC	DI H2O		13:08:34	H2O	50.00	50.0	50.0	50.0	1.00	0.00026	0.03419						A	7471A
1109192-07	TETRA			13:09:47	SOIL	0.30	50.0	50.0	50.0	1.00	0.00044	0.04437	0.00739					B	7471A
1109192-08	TETRA			13:11:00	SOIL	0.31	50.0	50.0	50.0	1.00	0.00030	0.03672	0.00592					B	7471A
1109192-09	TETRA			13:12:15	SOIL	0.32	50.0	50.0	50.0	1.00	0.00018	0.02976	0.00465					B	7471A
1109192-10	TETRA			13:13:29	SOIL	0.36	50.0	50.0	50.0	1.00	0.00024	0.03303	0.00459					B	7471A
1109192-11	TETRA			13:14:41	SOIL	0.39	50.0	50.0	50.0	1.00	0.00047	0.04613	0.00591					B	7471A
1109192-13	TETRA			13:16:59	SOIL	0.35	50.0	50.0	50.0	1.00	0.00075	0.06246	0.00892					B	7471A
1109192-14	TETRA			13:18:09	SOIL	0.36	50.0	50.0	50.0	1.00	0.00042	0.04330	0.00601					B	7471A
1109192-15	TETRA			13:19:18	SOIL	0.33	50.0	50.0	50.0	1.00	0.00027	0.03470	0.00526					B	7471A
1109192-16	TETRA			13:20:29	SOIL	0.29	50.0	50.0	50.0	1.00	0.00013	0.02684	0.00463					B	7471A
SEQ-CCV	QC	11J0225	4.0000	13:21:40	H2O	50.00	50.0	50.0	50.0	1.00	0.06919	3.98183		99.55	85.0	115.0		A	7471A
SEQ-CCB	QC	DI H2O		13:22:51	H2O	50.00	50.0	50.0	50.0	1.00	0.00018	0.02981						A	7471A
1J07005-BS1	QC	11D0442	0.3333	13:24:04	SOIL	0.30	50.0	50.0	50.0	1.00	0.03769	2.17807	0.36301	108.91	80.0	120.0		B	7471A
1J07005-BLK1	QC			13:25:16	SOIL	0.30	50.0	50.0	50.0	1.00	0.00012	0.02653	0.00442					B	7471A
1109192-17	TETRA			13:26:28	SOIL	0.33	50.0	50.0	50.0	1.00	0.00118	0.08703	0.01319					B	7471A
1109192-18	TETRA			13:27:42	SOIL	0.31	50.0	50.0	50.0	1.00	0.00024	0.03312	0.00534					B	7471A
1109192-19	TETRA			13:28:56	SOIL	0.31	50.0	50.0	50.0	1.00	0.00049	0.04735	0.00764					B	7471A
1J07005-MS1	TETRA	11D0442	0.3125	13:30:11	SOIL	0.32	50.0	50.0	50.0	1.00	0.03881	2.24195	0.35030	112.10	80.0	120.0	0.441	B	7471A
1J07005-MSD1	TETRA	11D0442	0.3125	13:31:25	SOIL	0.32	50.0	50.0	50.0	1.00	0.03857	2.22800	0.34812	111.40	80.0	120.0		B	7471A
1109192-20	TETRA			13:32:37	SOIL	0.40	50.0	50.0	50.0	1.00	0.00348	0.21860	0.02732					B	7471A
1109240-01	SHAW			13:33:46	SOIL	0.37	50.0	50.0	50.0	1.00	0.00441	0.27197	0.03675					B	7471A
1109241-01	SHAW			13:34:54	SOIL	0.30	50.0	50.0	50.0	1.00	0.01871	1.09111	0.18185					B	7471A
SEQ-CCV	QC	11J0225	4.0000	13:36:04	H2O	50.00	50.0	50.0	50.0	1.00	0.06950	3.99943		99.99	85.0	115.0		A	7471A
SEQ-CCB	QC	DI H2O		13:37:13	H2O	50.00	50.0	50.0	50.0	1.00	0.00014	0.02759						A	7471A
1109244-01	SHAW			13:38:23	SOIL	0.36	50.0	50.0	50.0	1.00	0.00393	0.24460	0.03397					B	7471A
1109246-01	SHAW			13:39:35	SOIL	0.33	50.0	50.0	50.0	1.00	0.00104	0.07917	0.01199					B	7471A
SEQ-CRL	QC	11J0221	0.2000	13:43:11	H2O	50.00	50.0	50.0	50.0	1.00	0.00314	0.19925		99.62	70.0	130.0		A	7471A
SEQ-CCV	QC	11J0224	2.0000	13:44:24	H2O	50.00	50.0	50.0	50.0	1.00	0.03373	1.95089		97.54	85.0	115.0		A	7471A
SEQ-CCB	QC	DI H2O		13:45:38	H2O	50.00	50.0	50.0	50.0	1.00	0.00015	0.02779						A	7471A

1840

1109191

Lab. #	Client	Waste Description	T.V. (ug/L) (mg/kg)	Analysis Time HH:MM (Military)	Matrix Type	Digestion		Analysis		Dilution	Peak Height	[Hg] ug/L	[Hg] mg/kg	Recovery %	Control Limits		RPD	Block	Method
						Initial Sample Volume	Final Sample Volume (mL)	Initial Sample Volume (mL)	Final Sample Volume (mL)						Low Limit %	High Limit %			

BS: 0.3g of boiling chips + 0.5mls of 11D0442 diluted to 50mls DI H2O final volume.
BLK: 0.3g of boiling chips into 50mls DI H2O final volume.

1841

1109191

PREPARATION BENCH SHEET

1I28010

Empirical Laboratories, LLC **Printed: 10/29/2011 10:51:26AM**

Instrument:

Matrix: Water **Prepared using: METALS - pMercury-W SW 7470A** **(No Surrogate)**

Lab Number	Cont ID	Analysis	Prepared	Initial (mL)	Final (mL)	Spike ID	Source ID	ul Spike	ul Surrogate	PH	Extraction Comments
1109081-01	E	MET_7470_MERCURY	09/28/2011	30	30					NA	HG BLOCK A
1109081-02	E	MET_7470_MERCURY	09/28/2011	30	30					NA	HG BLOCK A
1109081-03	E	MET_7470_MERCURY	09/28/2011	30	30					NA	HG BLOCK A
1109081-04	AD	MET_7470_MERCURY	09/28/2011	30	30					NA	MS/MSD. HG BLOCK A
1109081-05	J	MET_7470_MERCURY	09/28/2011	30	30					NA	HG BLOCK A
1109081-06	J	MET_7470_MERCURY	09/28/2011	30	30					NA	HG BLOCK A
1109081-07	J	MET_7470_MERCURY	09/28/2011	30	30					NA	HG BLOCK A
1109094-02	G	MET_7470_MERCURY	09/28/2011	30	30					NA	HG BLOCK A
1109104-01	D	MET_7470_MERCURY	09/28/2011	30	30					NA	HG BLOCK A
1109140-01	D	MET_7470_MERCURY	09/28/2011	30	30					NA	HG BLOCK A
1109141-01	D	MET_7470_MERCURY	09/28/2011	30	30					NA	HG BLOCK A
1109142-01	D	MET_7470_MERCURY	09/28/2011	30	30					NA	HG BLOCK A
1109191-10	F	MET_7470_MERCURY	09/28/2011	30	30					NA	HG BLOCK A
1109192-12	F	MET_7470_MERCURY	09/28/2011	30	30					NA	HG BLOCK A
1109195-01	E	MET_7470_MERCURY	09/28/2011	30	30					NA	HG BLOCK B
1109198-01	E	MET_7470_MERCURY	09/28/2011	30	30					NA	HG BLOCK B
1109198-02	E	MET_7470_MERCURY	09/28/2011	30	30					NA	HG BLOCK B
1109198-03	E	MET_7470_MERCURY	09/28/2011	30	30					NA	HG BLOCK B
1109198-04	E	MET_7470_MERCURY	09/28/2011	30	30					NA	HG BLOCK B
1109198-05	D	MET_7470_MERCURY	09/28/2011	30	30					NA	HG BLOCK B
1I28010-BLK1		QC	09/28/2011	30	30					NA	HG BLOCK A
1I28010-BS1		QC	09/28/2011	30	30	11D0442		300		NA	HG BLOCK A

Spiking Witnessed By Date

Preparation Reviewed By Date

Extracts Received By Date

1842

1109191

PREPARATION BENCH SHEET

1I28010

Empirical Laboratories, LLC **Printed: 10/29/2011 10:51:26AM**

Instrument:

Matrix: Water **Prepared using: METALS - pMercury-W SW 7470A** **(No Surrogate)**

Lab Number	Cont ID	Analysis	Prepared	Initial (mL)	Final (mL)	Spike ID	Source ID	ul Spike	ul Surrogate	PH	Extraction Comments
1I28010-MS1		QC	09/28/2011	30	30	11D0442	1109081-04	300		NA	HG BLOCK A
1I28010-MSD1		QC	09/28/2011	30	30	11D0442	1109081-04	300		NA	HG BLOCK A

Reagents Used:

Standard	Description
11H0471	KMNO4 Reagent
11H0586	Potassuim Persulfate (K2S2O8)
11H0740	Sulfuric Acid
11I0148	Hydrogen Peroxide 30%
11I0150	Nitric acid

Spiking Witnessed By Date

Preparation Reviewed By Date

Extracts Received By Date

1843

1109191

PREPARATION BENCH SHEET

1J06014

Empirical Laboratories, LLC **Printed: 10/29/2011 10:55:18AM**

Instrument:

Matrix: Solid **Prepared using: METALS - MET_3050B** **(No Surrogate)**

Lab Number	Cont ID	Analysis	Prepared	Initial (g)	Final (mL)	Spike ID	Source ID	ul Spike	ul Surrogate	PH	Extraction Comments
1109191-01	E	MET_ICP_6010C_FULL	10/06/2011	0.99	200					NA	
1109191-02	O	MET_ICP_6010C_FULL	10/06/2011	0.99	200					NA	MS/MSD
1109191-03	E	MET_ICP_6010C_FULL	10/06/2011	1.07	200					NA	
1109191-04	E	MET_ICP_6010C_FULL	10/06/2011	1.06	200					NA	
1109191-04RE1	E	MET_ICP_6010C_FULL	10/06/2011	1.06	200					NA	Added 10/11/2011 by RGB
1109191-05	E	MET_ICP_6010C_FULL	10/06/2011	1.08	200					NA	
1109191-06	E	MET_ICP_6010C_FULL	10/06/2011	0.96	200					NA	
1109253-01	E	MET_ICP_6010C_FULL	10/06/2011	0.95	200					NA	Check for versions/ RCRA is default for soil
1109253-02	E	MET_ICP_6010C_FULL	10/06/2011	1	200					NA	Check for versions/ RCRA is default for soil
1J06014-BLK1		QC	10/06/2011	1	200					NA	
1J06014-BS1		QC	10/06/2011	1	200	11I0358		200		NA	
1J06014-DUP1		QC	10/06/2011	0.99	200		1109191-02			NA	
1J06014-MS1		QC	10/06/2011	0.99	200	11I0358	1109191-02	200		NA	
1J06014-MSD1		QC	10/06/2011	1.02	200	11I0358	1109191-02	200		NA	
1J06014-PS1		QC	10/06/2011	0.99	200	11I0358	1109191-02	200		NA	

Reagents Used:

Standard	Description

Spiking Witnessed By Date

Preparation Reviewed By Date

Extracts Received By Date

1844

1109191

PREPARATION BENCH SHEET

1J07003

Empirical Laboratories, LLC **Printed: 10/19/2011 3:50:20PM**

Instrument:

Matrix: Solid **Prepared using: METALS - MET_HG_S** **(No Surrogate)**

Lab Number	Cont ID	Analysis	Prepared	Initial (g)	Final (mL)	Spike ID	Source ID	ul Spike	ul Surrogate	PH	Extraction Comments
1109177-01	A	MET_7471A_MERCURY	10/07/2011	0.32	50					NA	HG BLOCK A
1109177-02	A	MET_7471A_MERCURY	10/07/2011	0.32	50					NA	HG BLOCK A
1109177-03	A	MET_7471A_MERCURY	10/07/2011	0.33	50					NA	HG BLOCK A
1109177-04	A	MET_7471A_MERCURY	10/07/2011	0.37	50					NA	HG BLOCK A
1109177-05	A	MET_7471A_MERCURY	10/07/2011	0.3	50					NA	HG BLOCK A
1109177-06	A	MET_7471A_MERCURY	10/07/2011	0.36	50					NA	HG BLOCK A
1109177-07	A	MET_7471A_MERCURY	10/07/2011	0.31	50					NA	HG BLOCK A
1109177-08	A	MET_7471A_MERCURY	10/07/2011	0.28	50					NA	HG BLOCK A
1109177-09	A	MET_7471A_MERCURY	10/07/2011	0.33	50					NA	HG BLOCK A
1109177-10	B	MET_7471A_MERCURY	10/07/2011	0.32	50					NA	MS/MSD. HG BLOCK A
1109177-11	A	MET_7471A_MERCURY	10/07/2011	0.34	50					NA	HG BLOCK A
1109177-12	A	MET_7471A_MERCURY	10/07/2011	0.29	50					NA	HG BLOCK A
1109177-13	A	MET_7471A_MERCURY	10/07/2011	0.29	50					NA	HG BLOCK A
1109177-14	A	MET_7471A_MERCURY	10/07/2011	0.36	50					NA	HG BLOCK A
1109177-15	A	MET_7471A_MERCURY	10/07/2011	0.3	50					NA	HG BLOCK A
1109177-16	A	MET_7471A_MERCURY	10/07/2011	0.39	50					NA	HG BLOCK A
1109177-17	A	MET_7471A_MERCURY	10/07/2011	0.37	50					NA	HG BLOCK A
1109177-18	A	MET_7471A_MERCURY	10/07/2011	0.35	50					NA	HG BLOCK A
1109177-19	A	MET_7471A_MERCURY	10/07/2011	0.3	50					NA	HG BLOCK A
1109191-01	E	MET_7471A_MERCURY	10/07/2011	0.34	50					NA	HG BLOCK A
1J07003-BLK1		QC	10/07/2011	0.3	50					NA	HG BLOCK A
1J07003-BS1		QC	10/07/2011	0.3	50	11D0442		500		NA	HG BLOCK A

Spiking Witnessed By Date

Preparation Reviewed By Date

Extracts Received By Date

1845

1109191

PREPARATION BENCH SHEET

1J07003

Empirical Laboratories, LLC **Printed: 10/19/2011 3:50:20PM**

Instrument:

Matrix: Solid **Prepared using: METALS - MET_HG_S** **(No Surrogate)**

Lab Number	Cont ID	Analysis	Prepared	Initial (g)	Final (mL)	Spike ID	Source ID	ul Spike	ul Surrogate	PH	Extraction Comments
1J07003-MS1		QC	10/07/2011	0.31	50	11D0442	1109177-10	500		NA	HG BLOCK A
1J07003-MSD1		QC	10/07/2011	0.32	50	11D0442	1109177-10	500		NA	HG BLOCK A

Reagents Used:

Standard	Description
11H0471	KMNO4 Reagent
11I0149	Hydrochloric Acid
11I0150	Nitric acid

Spiking Witnessed By Date

Preparation Reviewed By Date

Extracts Received By Date

1846

1109191

PREPARATION BENCH SHEET

1J07004

Empirical Laboratories, LLC **Printed: 10/29/2011 10:56:45AM**

Instrument:

Matrix: Solid **Prepared using: METALS - MET_HG_S** **(No Surrogate)**

Lab Number	Cont ID	Analysis	Prepared	Initial (g)	Final (mL)	Spike ID	Source ID	ul Spike	ul Surrogate	PH	Extraction Comments
1109191-02	O	MET_7471A_MERCURY	10/07/2011	0.29	50					NA	MS/MSD HG BLOCK A
1109191-03	E	MET_7471A_MERCURY	10/07/2011	0.31	50					NA	HG BLOKC A
1109191-04	E	MET_7471A_MERCURY	10/07/2011	0.31	50					NA	HG BLOKC A
1109191-05	E	MET_7471A_MERCURY	10/07/2011	0.38	50					NA	HG BLOKC A
1109191-06	E	MET_7471A_MERCURY	10/07/2011	0.38	50					NA	HG BLOKC A
1109192-01	E	MET_7471A_MERCURY	10/07/2011	0.4	50					NA	HG BLOKC A
1109192-02	E	MET_7471A_MERCURY	10/07/2011	0.37	50					NA	HG BLOKC A
1109192-03	E	MET_7471A_MERCURY	10/07/2011	0.37	50					NA	HG BLOKC A
1109192-04	E	MET_7471A_MERCURY	10/07/2011	0.3	50					NA	HG BLOKC A
1109192-05	E	MET_7471A_MERCURY	10/07/2011	0.3	50					NA	HG BLOKC A
1109192-06	E	MET_7471A_MERCURY	10/07/2011	0.33	50					NA	HG BLOCK B
1109192-07	E	MET_7471A_MERCURY	10/07/2011	0.3	50					NA	HG BLOCK B
1109192-08	E	MET_7471A_MERCURY	10/07/2011	0.31	50					NA	HG BLOCK B
1109192-09	E	MET_7471A_MERCURY	10/07/2011	0.32	50					NA	HG BLOCK B
1109192-10	E	MET_7471A_MERCURY	10/07/2011	0.36	50					NA	HG BLOCK B
1109192-11	E	MET_7471A_MERCURY	10/07/2011	0.39	50					NA	HG BLOCK B
1109192-13	E	MET_7471A_MERCURY	10/07/2011	0.35	50					NA	HG BLOCK B
1109192-14	E	MET_7471A_MERCURY	10/07/2011	0.36	50					NA	HG BLOCK B
1109192-15	D	MET_7471A_MERCURY	10/07/2011	0.33	50					NA	HG BLOCK B
1109192-16	D	MET_7471A_MERCURY	10/07/2011	0.29	50					NA	HG BLOCK B
1J07004-BLK1		QC	10/07/2011	0.3	50					NA	HG BLOCK AA
1J07004-BS1		QC	10/07/2011	0.3	50	11D0442		500		NA	HG BLOCK AA

Spiking Witnessed By Date

Preparation Reviewed By Date

Extracts Received By Date

1847

1109191

PREPARATION BENCH SHEET

1J07004

Empirical Laboratories, LLC **Printed: 10/29/2011 10:56:45AM**

Instrument:

Matrix: Solid **Prepared using: METALS - MET_HG_S** **(No Surrogate)**

Lab Number	Cont ID	Analysis	Prepared	Initial (g)	Final (mL)	Spike ID	Source ID	ul Spike	ul Surrogate	PH	Extraction Comments
1J07004-MS1		QC	10/07/2011	0.32	50	11D0442	1109191-02	500		NA	HG BLOCK AA
1J07004-MSD1		QC	10/07/2011	0.3	50	11D0442	1109191-02	500		NA	HG BLOCK AA

Reagents Used:

Standard	Description

Spiking Witnessed By Date

Preparation Reviewed By Date

Extracts Received By Date

1848

1109191

PREPARATION BENCH SHEET

1K08018

Empirical Laboratories, LLC **Printed: 11/23/2011 10:12:24AM**

Instrument:

Matrix: Water **Prepared using: METALS - MET_3005A_LOW** **(No Surrogate)**

1849

Lab Number	Cont ID	Analysis	Prepared	Initial (mL)	Final (mL)	Spike ID	Source ID	ul Spike	ul Surrogate	PH	Extraction Comments
1109191-11	F	MET_ICP_LOW6010C_FULL	11/08/2011	100	25					NA	MS/Dup
1109192-27	F	MET_ICP_LOW6010C_FULL	11/08/2011	100	25					NA	MS/Dup
1110003-17	F	MET_ICP_LOW6010C_FULL	11/08/2011	100	25					NA	MS/Dup
1110003-18	A	MET_ICP_LOW6010C_FULL_I	11/08/2011	100	25					NA	MS/Dup
1110003-19	F	MET_ICP_LOW6010C_FULL	11/08/2011	100	25					NA	MS/Dup
1110003-20	A	MET_ICP_LOW6010C_FULL_I	11/08/2011	100	25					NA	MS/Dup
1110003-21	F	MET_ICP_LOW6010C_FULL	11/08/2011	100	25					NA	MS/Dup
1110003-22	A	MET_ICP_LOW6010C_FULL_I	11/08/2011	100	25					NA	MS/Dup
1110003-23	F	MET_ICP_LOW6010C_FULL	11/08/2011	100	25					NA	MS/Dup
1110003-24	A	MET_ICP_LOW6010C_FULL_I	11/08/2011	100	25					NA	MS/Dup
1110003-25	F	MET_ICP_LOW6010C_FULL	11/08/2011	100	25					NA	MS/Dup
1110003-26	A	MET_ICP_LOW6010C_FULL_I	11/08/2011	100	25					NA	MS/Dup
1110003-27	F	MET_ICP_LOW6010C_FULL	11/08/2011	100	25					NA	MS/Dup
1110003-28	F	MET_ICP_LOW6010C_FULL	11/08/2011	100	25					NA	MS/Dup
1110003-28	F	MET_ICP_LOW6010C_FULL_I	11/08/2011	100	25					NA	Added for BatchQC in: 1K08018
1110003-29	A	MET_ICP_LOW6010C_FULL_I	11/08/2011	100	25					NA	MS/Dup, MS/MSD
1110003-29	A	MET_ICP_LOW6010C_FULL	11/08/2011	100	25					NA	Added for BatchQC in: 1K08018
1110003-30	F	MET_ICP_LOW6010C_FULL	11/08/2011	100	25					NA	MS/Dup
1110003-31	A	MET_ICP_LOW6010C_FULL_I	11/08/2011	100	25					NA	MS/Dup
1K08018-BLK1		QC	11/08/2011	100	25					NA	
1K08018-BLK2		QC	11/08/2011	100	25					NA	Added 11/9/2011 by RGB
1K08018-BS1		QC	11/08/2011	100	25	11K0210		2000		NA	

1109191

Spiking Witnessed By Date

Preparation Reviewed By Date

Extracts Received By Date

PREPARATION BENCH SHEET

1K08018

Empirical Laboratories, LLC **Printed: 11/23/2011 10:12:24AM**

Instrument:

Matrix: Water **Prepared using: METALS - MET_3005A_LOW** **(No Surrogate)**

Lab Number	Cont ID	Analysis	Prepared	Initial (mL)	Final (mL)	Spike ID	Source ID	ul Spike	ul Surrogate	PH	Extraction Comments
1K08018-BS2		QC	11/08/2011	100	25	11K0210		2000		NA	
1K08018-DUP1		QC	11/08/2011	100	25		1110003-28			NA	
1K08018-DUP2		QC	11/08/2011	100	25		1110003-29			NA	
1K08018-DUP3		QC	11/08/2011	100	25		1110003-28			NA	Added 11/16/2011 by BLQ
1K08018-DUP4		QC	11/08/2011	100	25		1110003-28			NA	Added 11/16/2011 by BLQ
1K08018-MS1		QC	11/08/2011	100	25	11K0214	1110003-28	25		NA	
1K08018-MS2		QC	11/08/2011	100	25	11K0214	1110003-29	25		NA	
1K08018-MSD1		QC	11/08/2011	100	25	11K0214	1110003-28	25		NA	
1K08018-MSD2		QC	11/08/2011	100	25	11K0214	1110003-29	25		NA	
1K08018-PS1		QC	11/08/2011	100	25	11K0214	1110003-28	25		NA	
1K08018-PS2		QC	11/08/2011	100	25	11K0214	1110003-29	25		NA	

Reagents Used:

Standard	Description
11J0307	Hydrochloric Acid
11J0308	Nitric acid

Spiking Witnessed By Date

Preparation Reviewed By Date

Extracts Received By Date

1850

1109191

Subcontractor Data Packages

Subcontractor Data Package
ENCO

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Environmental Conservation Laboratories, Inc.
10775 Central Port Drive
Orlando FL, 32824
Phone: 407.826.5314 FAX: 407.850.6945
www.encolabs.com

Thursday, October 6, 2011

Empirical Laboratories, LLC (EM014)

Attn: Brian Richard

621 Mainstream Dr suite 270

Nashville, TN 37228

RE: Laboratory Results for
Project Number: 1109191, Project Name/Desc: 1109191
ENCO Workorder: A105206

Dear Brian Richard,

Enclosed is a copy of your laboratory report for test samples received by our laboratory on Wednesday, September 28, 2011.

Unless otherwise noted in an attached project narrative, all samples were received in acceptable condition and processed in accordance with the referenced methods/procedures. Results for these procedures apply only to the samples as submitted.

The analytical results contained in this report are in compliance with NELAC standards, except as noted in the project narrative. This report shall not be reproduced except in full, without the written approval of the Laboratory.

This report contains only those analyses performed by Environmental Conservation Laboratories. Unless otherwise noted, all analyses were performed at ENCO Orlando. Data from outside organizations will be reported under separate cover.

If you have any questions or require further information, please do not hesitate to contact me.

Sincerely,

Marcia Colon For Ronald Wambles

Project Manager

Enclosure(s)

The total number of pages in this report, including this page is 9.

PROJECT NARRATIVE

Client: Empirical Laboratories, LLC
Project: Mayport CTOJM46 Site 4 and 5
Project Number:
SDG: 1109191
ENCO Project ID: A105206
Overview

All samples submitted were analyzed by Environmental Conservation Laboratories, Inc. in accordance with the methods referenced in the laboratory report. Any particular difficulties encountered during sample handling and processing will be discussed in the Remarks section below.

Remarks

Analysis: EPA 8260C
Affected Samples: 1J030019-MS1, 1J030019-MSD1
Nonconformance: Sample used for the source sample for MS and MSD was from another client project (1109192).

Analysis: EPA 8260C
Sequence: AA16667
Affected Sample(s): AA16667-CCV, 1J03019-BS1, 1J03019-BLK1, 1J03019-MS1, 1J03019-MSD1,
Nonconformance: Manual integrations
Additional Information: The following manual integrations were performed in the sample(s) AA16667-CCV, 1J03019-BS1, 1J03019-BLK1, 1J03019-MS1, 1J03019-MSD1 due to ISTD reintegration: 1,4-Difluorobenzene.
The following manual integrations were performed in the sample(s) FLC-4-RB01-092211 (1109191-10) [A105206-01] due to poor integration (peak tailing, baseline selection): D8-Toluene.

Marcia Colon
Project Manager

www.encolabs.com

SAMPLE SUMMARY/LABORATORY CHRONICLE

Client ID:	FLC-4-RB01-092211 (1109191-10)	Lab ID: A105206-01	Sampled: 09/22/11 11:15	Received: 09/28/11 09:35

Parameter	Hold Date/Time(s)	Prep Date/Time(s)	Analysis Date/Time(s)
EPA 8260B	10/06/11	10/03/11 13:05	10/3/2011 17:54

SAMPLE DETECTION SUMMARY

No positive results detected.

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ANALYTICAL RESULTS

Description: FLC-4-RB01-092211 (1109191-10)
Matrix: Water
Project: 1109191

Lab Sample ID: A105206-01
Sampled: 09/22/11 11:15
Sampled By: Brian Richard

Received: 09/28/11 09:35
Work Order: A105206

Volatile Organic Compounds by GCMS SIM Isotope Dilution

^ - ENCO Orlando certified analyte [DOD A2LA: 3000-01]

Analyte [CAS Number]	Results	Flag	Units	DF	MDL	PQL	Batch	Method	Analyzed	By	Notes
1,4-Dioxane [123-91-1] ^	1.00	U	ug/L	1	1.00	3.00	1J03019	EPA 8260B	10/03/11 17:54	kat	

Surrogates	*Results*	*DF*	*Spike Lvl*	*% Rec*	*% Rec Limits*	*Batch*	*Method*	*Analyzed*	*By*	Notes
Toluene-d8	*5.82*	*1*	*5.00*	*116 %*	*79-127*	*1J03019*	*EPA 8260B*	*10/03/11 17:54*	*kat*	

This report relates only to the sample as received by the laboratory, and may only be reproduced in full.

QUALITY CONTROL

Volatile Organic Compounds by GCMS SIM Isotope Dilution - Quality Control

Batch 1J03019 - EPA 5030B_MS

Blank (1J03019-BLK1) Prepared: 10/03/2011 13:05 Analyzed: 10/03/2011 15:35

Analyte	Result	Flag	PQL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
1,4-Dioxane	1.00	U	3.00	ug/L							
Surrogate: Toluene-d8	*5.18*			*ug/L*	*5.00*		*104*	*79-127*			

LCS (1J03019-BS1) Prepared: 10/03/2011 13:05 Analyzed: 10/03/2011 15:01

Analyte	Result	Flag	PQL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
1,4-Dioxane	26.9		3.00	ug/L	25.0		108	80-133			
Surrogate: Toluene-d8	*5.95*			*ug/L*	*5.00*		*119*	*79-127*			

Matrix Spike (1J03019-MS1) Prepared: 10/03/2011 13:05 Analyzed: 10/03/2011 16:10

Source: A105207-01

Analyte	Result	Flag	PQL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
1,4-Dioxane	24.3		3.00	ug/L	25.0	1.00 U	97	80-133			
Surrogate: Toluene-d8	*5.50*			*ug/L*	*5.00*		*110*	*79-127*			

Matrix Spike Dup (1J03019-MSD1) Prepared: 10/03/2011 13:05 Analyzed: 10/03/2011 16:44

Source: A105207-01

Analyte	Result	Flag	PQL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
1,4-Dioxane	25.4		3.00	ug/L	25.0	1.00 U	102	80-133	5	19	
Surrogate: Toluene-d8	*5.80*			*ug/L*	*5.00*		*116*	*79-127*			

FLAGS/NOTES AND DEFINITIONS

PQL	PQL: Practical Quantitation Limit.
B	Results are based upon membrane filter colony counts that are outside the method indicated ideal range.
I	The reported value is between the laboratory method detection limit (MDL) and the practical quantitation limit (PQL).
J	Estimated value.
K	Off-scale low; Actual value is known to be less than the value given.
L	Off-scale high; Actual value is known to be greater than value given.
M	Presence of analyte is verified but not quantified; the actual value is less than the MRL but greater than the MDL.
N	Presumptive evidence of presence of material.
O	Sampled, but analysis lost or not performed.
Q	Sample exceeded the accepted holding time.
T	Value reported is less than the laboratory method detection limit. The value is reported for informational purposes only and shall not be used in statistical analysis.
U	Indicates that the compound was analyzed for but not detected.
V	Indicates that the analyte was detected in both the sample and the associated method blank.
Y	The laboratory analysis was from an improperly preserved sample. The data may not be accurate.
Z	Too many colonies were present (TNTC); the numeric value represents the filtration volume.
?	Data are rejected and should not be used. Some or all of the quality control data for the analyte were outside criteria, and the presence or absence of the analyte cannot be determined from the data.
*	Not reported due to interference.

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SUBCONTRACT ORDER

Empirical Laboratories, LLC

1109191

SENDING LABORATORY:

Empirical Laboratories, LLC
621 Mainstream Drive, Suite 270
Nashville, TN 37228
Phone: 615.345.1115
Fax: 866.417.0548
Project Manager: Brian Richard

RECEIVING LABORATORY:

Environmental Conservation Laboratories, Inc (SUB)
10775 Central Port Drive
Orlando, FL 32824
Phone :(404) 826-5314
Fax: (404) 850-6945

PO# 11-1143

Analysis	Due	Expires	Laboratory ID	Comments
Sample ID: FLC-4-RB01-092211				
Reference No: 1109191-10	**Water**	**Sampled:09/22/2011 11:15**		
SUB_SPECIALTY	10/05/2011 14:00	03/20/2012 11:15		1,4-Dioxane
Containers Supplied:				

Released By	Date	Received By	Date
[signature]	9/22/11	[signature]	9/23/11 9:35 Fedex

Sm Btw 2°C

ORIGIN ID: MQYA (615) 345-1115
SAMPLE RECEIVING AND SHIPPING
EMPIRICAL LABORATORIES, LLC
621 MAINSTREAM DRIVE
SUITE 270
NASHVILLE, TN 37228
UNITED STATES US

SHIP DATE: 27SEP11
ACTWGT: 12.8 LB
CAD: 237080/CAFE2507

BILL SENDER

TO SAMPLE RECEIVING
ENVIROMENTAL CONSERVATION LABS
10775 CENTRAL PORT DRIVE

ORLANDO FL 32824
(404) 826-5314 REF:
INV:
PO: DEPT:

FedEx Express

TRK# 0201 9754 9580 7169

WED - 28 SEP A1
PRIORITY OVERNIGHT

XH DWSA

32824
FL-US MCO

ENCO Orlando

SDG: 1109191

CLASS: 03_VOA_SIM

METHOD: EPA 8260B

ANALYSES DATA PACKAGE COVER PAGE

EPA 8260B

Laboratory:	ENCO Orlando	SDG:	1109191
Client:	Empirical Laboratories, LLC (EM014)	Project:	1109191

Client Sample Id:	Lab Sample Id:
FLC-4-RB01-092211 (1109191-10)	A105206-01

I certify that this data package is in compliance with the terms and conditions of the contract, both technically and for completeness, for other than the conditions detailed above. Release of the data contained in this hardcopy data package and in computer-readable data submitted on diskette has been authorized by the Laboratory Manager or the Manager's designee, as verified by the following signatures.

Signature:		Name:	Marcia Colon
Date:	October 06, 2011	Title:	Project Manager

ORGANIC ANALYSIS DATA SHEET

EPA 8260B

FLC-4-RB01-092211 (1109191-10

Laboratory:	ENCO Orlando			SDG:	1109191
Client:	Empirical Laboratories, LLC (EM014)			Project:	1109191
Matrix:	Water	Laboratory ID:	A105206-01	File ID:	4j3009.D
Sampled:	09/22/11 11:15	Prepared:	10/03/11 13:05	Analyzed:	10/03/11 17:54
Solids:		Preparation:	EPA 5030B_MS	Initial/Final:	15 mL / 15 mL

Batch: 1J03019 Sequence: AA16667 Calibration: 1106015 Instrument: OVGCMS4

CAS NO.	COMPOUND	DILUTION	CONC. (ug/L)	Q	MDL	MRL
123-91-1	1,4-Dioxane	1	1.00	U	1.00	3.00

SYSTEM MONITORING COMPOUND	ADDED (ug/L)	CONC (ug/L)	% REC	QC LIMITS	Q
Toluene-d8	5.00	5.82	116	79 - 127	

INTERNAL STANDARD	AREA	RT	REF AREA	REF RT	Q
1,4-Difluorobenzene	6144970	11.492	5553767	11.498	
1,4-Dioxane-d8	249914	12.204	191008	12.253	

* Values outside of QC limits

HOLDING TIME SUMMARY

EPA 8260B

Laboratory: ENCO Orlando SDG: 1109191

Client: Empirical Laboratories, LLC (EM014) Project: 1109191

Sample Name	Date Collected	Date Received	Date Prepared	Days to Prep	Max Days to Prep	Date Analyzed	Days to Analysis	Max Days to Analysis	Q
FLC-4-RB01-092211 (1109191-10)	09/22/11 11:15	09/28/11 09:35	10/03/11 13:05	11.08	NA	10/03/11 17:54	11.00	14.00	

PREPARATION BATCH SUMMARY

EPA 8260B

Laboratory: ENCO Orlando SDG: 1109191

Client: Empirical Laboratories, LLC (EM014) Project: 1109191

Batch: 1J03019 Batch Matrix: Water Preparation: EPA 5030B_MS

SAMPLE NAME	LAB SAMPLE ID	LAB FILE ID	DATE PREPARED	OBSERVATIONS
Blank	1J03019-BLK1	4j3005.D	10/03/11 13:05	
LCS	1J03019-BS1	4j3004.D	10/03/11 13:05	
FLC-5-RB01-092311 (1109192-12)	1J03019-MS1	4j3006.D	10/03/11 13:05	
FLC-5-RB01-092311 (1109192-12)	1J03019-MSD1	4j3007.D	10/03/11 13:05	
FLC-4-RB01-092211 (1109191-10)	A105206-01	4j3009.D	10/03/11 13:05	

METHOD BLANK DATA SHEET
EPA 8260B

Laboratory:	ENCO Orlando			SDG:	1109191
Client:	Empirical Laboratories, LLC (EM014)			Project:	1109191
Matrix:	Water	Laboratory ID:	1J03019-BLK1	File ID:	4j3005.D
Prepared:	10/03/11 13:05	Preparation:	EPA 5030B_MS	Initial/Final:	15 mL / 15 mL
Analyzed:	10/03/11 15:35	Instrument:	OVGCMS4		
Batch:	1J03019	Sequence:	AA16667	Calibration:	1106015

CAS NO.	COMPOUND	CONC. (ug/L)	Q
123-91-1	1,4-Dioxane	1.00	U

SYSTEM MONITORING COMPOUND	ADDED (ug/L)	CONC (ug/L)	% REC	QC LIMITS	Q
Toluene-d8	5.00	5.18	104	79 - 127	

INTERNAL STANDARD	AREA	RT	REF AREA	REF RT	Q
1,4-Difluorobenzene	5922252	11.498	5553767	11.498	
1,4-Dioxane-d8	206665	12.204	191008	12.253	

LCS / LCS DUPLICATE RECOVERY

EPA 8260B

Laboratory:	ENCO Orlando	SDG:	1109191
Client:	Empirical Laboratories, LLC (EM014)	Project:	1109191
Matrix:	Water		
Batch:	1J03019	Laboratory ID:	1J03019-BS1
Preparation:	EPA 5030B_MS	Initial/Final:	15 mL / 15 mL

COMPOUND	SPIKE ADDED (ug/L)	LCS CONCENTRATION (ug/L)	LCS % REC. #	QC LIMITS REC.
1,4-Dioxane	25.0	26.9	108	80 - 133

Column to be used to flag recovery and RPD values with an asterisk

* Values outside of QC limits

MATRIX SPIKE / MATRIX SPIKE DUPLICATE RECOVERY

EPA 8260B

FLC-5-RB01-092311 (1109192-12)

Laboratory:	ENCO Orlando	SDG:	1109191
Client:	Empirical Laboratories, LLC (EM014)	Project:	1109191
Matrix:	Water		
Batch:	1J03019	Laboratory ID:	1J03019-MS1
Preparation:	EPA 5030B_MS	Initial/Final:	15 mL / 15 mL

Source Sample Name: FLC-5-RB01-092311 (1109192-12)

COMPOUND	SPIKE ADDED (ug/L)	SAMPLE CONCENTRATION (ug/L)	MS CONCENTRATION (ug/L)	MS % REC. #	QC LIMITS REC.
1,4-Dioxane	25.0	ND	24.3	97	80 - 133

MATRIX SPIKE / MATRIX SPIKE DUPLICATE RECOVERY

EPA 8260B

FLC-5-RB01-092311 (1109192-12)

Laboratory:	ENCO Orlando	SDG:	1109191
Client:	Empirical Laboratories, LLC (EM014)	Project:	1109191
Matrix:	Water		
Batch:	1J03019	Laboratory ID:	1J03019-MSD1
Preparation:	EPA 5030B_MS	Initial/Final:	15 mL / 15 mL

Source Sample Name: FLC-5-RB01-092311 (1109192-12)

COMPOUND	SPIKE ADDED (ug/L)	MSD CONCENTRATION (ug/L)	MSD % REC. #	% RPD #	QC LIMITS RPD	QC LIMITS REC.
1,4-Dioxane	25.0	25.4	102	5	19	80 - 133

Column to be used to flag recovery and RPD values with an asterisk

* Values outside of QC limits

SURROGATE STANDARD RECOVERY AND RT SUMMARY

EPA 8260B

Laboratory:	ENCO Orlando	SDG:	1109191
Client:	Empirical Laboratories, LLC (EM014)	Project:	1109191
Sequence:	AA15332	Instrument:	OVGCMS4
Matrix:	Water	Calibration:	1106015

Surrogate Compound	Spike Level ug/L	% Recovery	Recovery Limits	RT	Calibration RT	RT Diff	RT Diff Limit	Q
Initial Cal Blank (AA15332-ICB1)			Lab File ID: 4FA002.D		Analyzed: 06/06/11 16:18			
Toluene-d8			79 - 127	12.8	12.794	0.0060	+/-1.0	
Secondary Cal Check (AA15332-SCV1)			Lab File ID: 4FA010.D		Analyzed: 06/07/11 16:25			
Toluene-d8	5.00	101	80 - 120	12.794	12.794	0.0000	+/-1.0	

SURROGATE STANDARD RECOVERY AND RT SUMMARY

EPA 8260B

Laboratory:	ENCO Orlando	SDG:	1109191
Client:	Empirical Laboratories, LLC (EM014)	Project:	1109191
Sequence:	AA16667	Instrument:	OVGCMS4
Matrix:	Water	Calibration:	1106015

Surrogate Compound	Spike Level ug/L	% Recovery	Recovery Limits	RT	Calibration RT	RT Diff	RT Diff Limit	Q
Calibration Check (AA16667-CCV1)			Lab File ID: 4j3003.D		Analyzed: 10/03/11 14:29			
Toluene-d8	5.00	115	80 - 120	12.797	12.794	0.0030	+/-1.0	
LCS (1J03019-BS1)			Lab File ID: 4j3004.D		Analyzed: 10/03/11 15:01			
Toluene-d8	5.00	119	79 - 127	12.797	12.794	0.0030	+/-1.0	
Blank (1J03019-BLK1)			Lab File ID: 4j3005.D		Analyzed: 10/03/11 15:35			
Toluene-d8	5.00	104	79 - 127	12.797	12.794	0.0030	+/-1.0	
Matrix Spike (1J03019-MS1)			Lab File ID: 4j3006.D		Analyzed: 10/03/11 16:10			
Toluene-d8	5.00	110	79 - 127	12.797	12.794	0.0030	+/-1.0	
Matrix Spike Dup (1J03019-MSD1)			Lab File ID: 4j3007.D		Analyzed: 10/03/11 16:44			
Toluene-d8	5.00	116	79 - 127	12.797	12.794	0.0030	+/-1.0	
FLC-4-RB01-092211 (1109191-10) (A105206-01)			Lab File ID: 4j3009.D		Analyzed: 10/03/11 17:54			
Toluene-d8	5.00	116	79 - 127	12.797	12.794	0.0030	+/-1.0	

INTERNAL STANDARD AREA AND RT SUMMARY
EPA 8260B

Laboratory:	ENCO Orlando	SDG:	1109191
Client:	Empirical Laboratories, LLC (EM014)	Project:	1109191
Sequence:	AA15332	Instrument:	OVGCMS4
Matrix:	Water	Calibration:	1106015

Internal Standard	Response	RT	Reference Response	Reference RT	Area %	Area % Limits	RT Diff	RT Diff Limit	Q
Initial Cal Blank (AA15332-ICB1)			Lab File ID: 4FA002.D			Analyzed: 06/06/11 16:18			
1,4-Difluorobenzene	4709850	11.497	5553767	11.498	85	50 - 200	-0.0010	+/-0.50	
1,4-Dioxane-d8	98740	12.181	191008	12.253	52	50 - 200	-0.0720	+/-0.50	
Cal Standard (AA15332-CAL1)			Lab File ID: 4FA003.D			Analyzed: 06/06/11 16:51			
1,4-Difluorobenzene	5546634	11.497	5553767	11.498	100	50 - 200	-0.0010	+/-0.50	
1,4-Dioxane-d8	258517	12.253	191008	12.253	135	50 - 200	0.0000	+/-0.50	
Cal Standard (AA15332-CAL2)			Lab File ID: 4FA004.D			Analyzed: 06/06/11 17:24			
1,4-Difluorobenzene	5459785	11.497	5553767	11.498	98	50 - 200	-0.0010	+/-0.50	
1,4-Dioxane-d8	236794	12.253	191008	12.253	124	50 - 200	0.0000	+/-0.50	
Cal Standard (AA15332-CAL3)			Lab File ID: 4FA005.D			Analyzed: 06/06/11 17:58			
1,4-Difluorobenzene	5553767	11.498	5553767	11.498	100	50 - 200	0.0000	+/-0.50	
1,4-Dioxane-d8	191008	12.253	191008	12.253	100	50 - 200	0.0000	+/-0.50	
Cal Standard (AA15332-CAL4)			Lab File ID: 4FA006.D			Analyzed: 06/06/11 18:34			
1,4-Difluorobenzene	5515045	11.492	5553767	11.498	99	50 - 200	-0.0060	+/-0.50	
1,4-Dioxane-d8	247344	12.253	191008	12.253	129	50 - 200	0.0000	+/-0.50	
Cal Standard (AA15332-CAL5)			Lab File ID: 4FA007.D			Analyzed: 06/06/11 19:09			
1,4-Difluorobenzene	5758591	11.492	5553767	11.498	104	50 - 200	-0.0060	+/-0.50	
1,4-Dioxane-d8	295410	12.31	191008	12.253	155	50 - 200	0.0570	+/-0.50	
Secondary Cal Check (AA15332-SCV1)			Lab File ID: 4FA010.D			Analyzed: 06/07/11 16:25			
1,4-Difluorobenzene	5382604	11.497	5553767	11.498	97	50 - 200	-0.0010	+/-0.50	
1,4-Dioxane-d8	223770	12.252	191008	12.253	117	50 - 200	-0.0010	+/-0.50	

INTERNAL STANDARD AREA AND RT SUMMARY
EPA 8260B

Laboratory:	ENCO Orlando	SDG:	1109191
Client:	Empirical Laboratories, LLC (EM014)	Project:	1109191
Sequence:	AA16667	Instrument:	OVGCMS4
Matrix:	Water	Calibration:	1106015

Internal Standard	Response	RT	Reference Response	Reference RT	Area %	Area % Limits	RT Diff	RT Diff Limit	Q
Calibration Check (AA16667-CCV1)			Lab File ID: 4j3003.D			Analyzed: 10/03/11 14:29			
1,4-Difluorobenzene	4653579	11.498	5553767	11.498	84	50 - 200	0.0000	+/-0.50	
1,4-Dioxane-d8	176152	12.181	191008	12.253	92	50 - 200	-0.0720	+/-0.50	
LCS (1J03019-BS1)			Lab File ID: 4j3004.D			Analyzed: 10/03/11 15:01			
1,4-Difluorobenzene	4362897	11.498	5553767	11.498	79	50 - 200	0.0000	+/-0.50	
1,4-Dioxane-d8	159900	12.19	191008	12.253	84	50 - 200	-0.0630	+/-0.50	
Blank (1J03019-BLK1)			Lab File ID: 4j3005.D			Analyzed: 10/03/11 15:35			
1,4-Difluorobenzene	5922252	11.498	5553767	11.498	107	50 - 200	0.0000	+/-0.50	
1,4-Dioxane-d8	206665	12.204	191008	12.253	108	50 - 200	-0.0490	+/-0.50	
Matrix Spike (1J03019-MS1)			Lab File ID: 4j3006.D			Analyzed: 10/03/11 16:10			
1,4-Difluorobenzene	5580845	11.498	5553767	11.498	100	50 - 200	0.0000	+/-0.50	
1,4-Dioxane-d8	224905	12.204	191008	12.253	118	50 - 200	-0.0490	+/-0.50	
Matrix Spike Dup (1J03019-MSD1)			Lab File ID: 4j3007.D			Analyzed: 10/03/11 16:44			
1,4-Difluorobenzene	5402114	11.498	5553767	11.498	97	50 - 200	0.0000	+/-0.50	
1,4-Dioxane-d8	231101	12.204	191008	12.253	121	50 - 200	-0.0490	+/-0.50	
FLC-4-RB01-092211 (1109191-10) (A105206-01)			Lab File ID: 4j3009.D			Analyzed: 10/03/11 17:54			
1,4-Difluorobenzene	6144970	11.492	5553767	11.498	111	50 - 200	-0.0060	+/-0.50	
1,4-Dioxane-d8	249914	12.204	191008	12.253	131	50 - 200	-0.0490	+/-0.50	

ANALYSIS BATCH (SEQUENCE) SUMMARY

EPA 8260B

Laboratory:	ENCO Orlando	SDG:	1109191
Client:	Empirical Laboratories, LLC (EM014)	Project:	1109191
Sequence:	AA15332	Instrument:	OVGCMS4
		Calibration:	1106015

Sample Name	Lab Sample ID	Lab File ID	Analysis Date/Time
MS Tune	AA15332-TUN1	4FA001.D	06/06/11 15:49
Initial Cal Blank	AA15332-ICB1	4FA002.D	06/06/11 16:18
Cal Standard	AA15332-CAL1	4FA003.D	06/06/11 16:51
Cal Standard	AA15332-CAL2	4FA004.D	06/06/11 17:24
Cal Standard	AA15332-CAL3	4FA005.D	06/06/11 17:58
Cal Standard	AA15332-CAL4	4FA006.D	06/06/11 18:34
Cal Standard	AA15332-CAL5	4FA007.D	06/06/11 19:09
MS Tune	AA15332-TUN2	4FA008.D	06/07/11 15:20
Secondary Cal Check	AA15332-SCV1	4FA010.D	06/07/11 16:25

ANALYSIS BATCH (SEQUENCE) SUMMARY

EPA 8260B

Laboratory:	ENCO Orlando	SDG:	1109191
Client:	Empirical Laboratories, LLC (EM014)	Project:	1109191
Sequence:	AA16667	Instrument:	OVGCMS4
		Calibration:	1106015

Sample Name	Lab Sample ID	Lab File ID	Analysis Date/Time
MS Tune	AA16667-TUN1	4j3001.D	10/03/11 13:28
Calibration Check	AA16667-CCV1	4j3003.D	10/03/11 14:29
LCS	1J03019-BS1	4j3004.D	10/03/11 15:01
Blank	1J03019-BLK1	4j3005.D	10/03/11 15:35
FLC-5-RB01-092311 (1109192-12)	1J03019-MS1	4j3006.D	10/03/11 16:10
FLC-5-RB01-092311 (1109192-12)	1J03019-MSD1	4j3007.D	10/03/11 16:44
FLC-4-RB01-092211 (1109191-10)	A105206-01	4j3009.D	10/03/11 17:54

MASS SPECTROMETER INSTRUMENT PERFORMANCE CHECK

EPA 8260B

Laboratory:	ENCO Orlando	SDG:	1109191
Client:	Empirical Laboratories, LLC (EM014)	Project:	1109191
Lab File ID:	4FA001.D	Injection Date:	06/06/11
Instrument ID:	OVGCMS4	Injection Time:	15:49
Sequence:	AA15332	Lab Sample ID:	AA15332-TUN1

m/z	ION ABUNDANCE CRITERIA	% RELATIVE ABUNDANCE	
50	15 - 40% of 95	16.6	PASS
75	30 - 60% of 95	46.8	PASS
95	Base peak, 100% relative abundance	100	PASS
96	5 - 9% of 95	8.17	PASS
173	Less than 2% of 174	0.477	PASS
174	50 - 200% of 95	84.3	PASS
175	5 - 9% of 174	7.58	PASS
176	95 - 101% of 174	96.2	PASS
177	5 - 9% of 176	7.63	PASS

MASS SPECTROMETER INSTRUMENT PERFORMANCE CHECK

EPA 8260B

Laboratory:	ENCO Orlando	SDG:	1109191
Client:	Empirical Laboratories, LLC (EM014)	Project:	1109191
Lab File ID:	4FA008.D	Injection Date:	06/07/11
Instrument ID:	OVGCMS4	Injection Time:	15:20
Sequence:	AA15332	Lab Sample ID:	AA15332-TUN2

m/z	ION ABUNDANCE CRITERIA	% RELATIVE ABUNDANCE	
50	15 - 40% of 95	18.3	PASS
75	30 - 60% of 95	50.1	PASS
95	Base peak, 100% relative abundance	100	PASS
96	5 - 9% of 95	6.97	PASS
173	Less than 2% of 174	0.741	PASS
174	50 - 200% of 95	86.8	PASS
175	5 - 9% of 174	7.59	PASS
176	95 - 101% of 174	95.3	PASS
177	5 - 9% of 176	6.31	PASS

MASS SPECTROMETER INSTRUMENT PERFORMANCE CHECK

EPA 8260B

Laboratory:	ENCO Orlando	SDG:	1109191
Client:	Empirical Laboratories, LLC (EM014)	Project:	1109191
Lab File ID:	4j3001.D	Injection Date:	10/03/11
Instrument ID:	OVGCMS4	Injection Time:	13:28
Sequence:	AA16667	Lab Sample ID:	AA16667-TUN1

m/z	ION ABUNDANCE CRITERIA	% RELATIVE ABUNDANCE	
50	15 - 40% of 95	21.6	PASS
75	30 - 60% of 95	59.7	PASS
95	Base peak, 100% relative abundance	100	PASS
96	5 - 9% of 95	6.88	PASS
173	Less than 2% of 174	0.284	PASS
174	50 - 200% of 95	98.5	PASS
175	5 - 9% of 174	7.24	PASS
176	95 - 101% of 174	96.5	PASS
177	5 - 9% of 176	7.62	PASS

CONTINUING CALIBRATION CHECK

EPA 8260B

Laboratory:	ENCO Orlando	SDG:	1109191
Client:	Empirical Laboratories, LLC (EM014)	Project:	1109191
Instrument ID:	OVGCMS4	Calibration:	1106015
Lab File ID:	4j3003.D	Calibration Date:	06/06/11 14:20
Sequence:	AA16667	Injection Date:	10/03/11
Lab Sample ID:	AA16667-CCV1	Injection Time:	14:29

		CONC. (ug/L)		RESPONSE FACTOR			% DIFF / DRIFT	
COMPOUND	TYPE	STD	CCV	ICAL	CCV	MIN (#)	CCV	LIMIT (#)
1,4-Dioxane	A	25.0	26.8	1.615359	1.733957		7.3	20

Column to be used to flag Response Factor and %Diff/Drift values with an asterisk

* Values outside of QC limits

INITIAL CALIBRATION STANDARDS

EPA 8260B

Laboratory:	ENCO Orlando	SDG:	1109191
Client:	Empirical Laboratories, LLC (EM014)	Project:	1109191
Sequence:	AA15332	Instrument:	OVGCMS4
Calibration:	1106015		

Standard ID	Description	Lab Sample ID	Lab File ID	Analysis Date/Time
A1D0342	8260 BFB Tuning solution	AA15332-TUN1	4FA001.D	06/06/11 15:49
A1E0104	8260 SIM ID 2ppb std.	AA15332-CAL1	4FA003.D	06/06/11 16:51
A1E0105	8260 SIM ID 4ppb std.	AA15332-CAL2	4FA004.D	06/06/11 17:24
A1E0106	8260 SIM ID 25ppb std.	AA15332-CAL3	4FA005.D	06/06/11 17:58
A1E0107	8260 SIM ID 40ppb std.	AA15332-CAL4	4FA006.D	06/06/11 18:34
A1E0108	8260 SIM ID 80ppb std.	AA15332-CAL5	4FA007.D	06/06/11 19:09
A1D0342	8260 BFB Tuning solution	AA15332-TUN2	4FA008.D	06/07/11 15:20
A1E0109	8260 SIM ID SCV virtual	AA15332-SCV1	4FA010.D	06/07/11 16:25

INITIAL CALIBRATION DATA

EPA 8260B

Laboratory:	ENCO Orlando	SDG:	1109191
Client:	Empirical Laboratories, LLC (EM014)	Project:	1109191
Calibration:	1106015	Instrument:	OVGCMS4
Matrix:	Water	Calibration Date:	06/06/11 14:20

Compound	Level 01		Level 02		Level 03		Level 04		Level 05		Level 06	
	ug/L	RF	ug/L	RF	ug/L	RF	ug/L	RF	ug/L	RF	ug/L	RF
1,4-Dioxane	2	1.534328	4	1.657928	25	1.703279	40	1.644067	80	1.537194		
Toluene-d8	1	0.9286858	3	1.007276	5	1.104556	8	1.106748	10	1.086221		

INITIAL CALIBRATION DATA (Continued)

EPA 8260B

Laboratory:	ENCO Orlando	SDG:	1109191
Client:	Empirical Laboratories, LLC (EM014)	Project:	1109191
Calibration:	1106015	Instrument:	OVGCMS4
Matrix:	Water	Calibration Date:	06/06/11 14:20

Compound	Mean RF	RF RSD	Mean RT	RT RSD	Linear r	Quad COD	LIMIT	Q
1,4-Dioxane	1.615359	4.698523	12.2868	0.1765788			15	
Toluene-d8	1.046697	7.39985	12.794	1.807729E-02			15	

SECOND-SOURCE CALIBRATION VERIFICATION

EPA 8260B

Laboratory: ENCO Orlando

SDG: 1109191

Client: Empirical Laboratories, LLC (EM014)

Project: 1109191

Calibration: 1106015

Laboratory ID: AA15332-SCV1

Sequence: AA15332

Standard ID: A1E0109

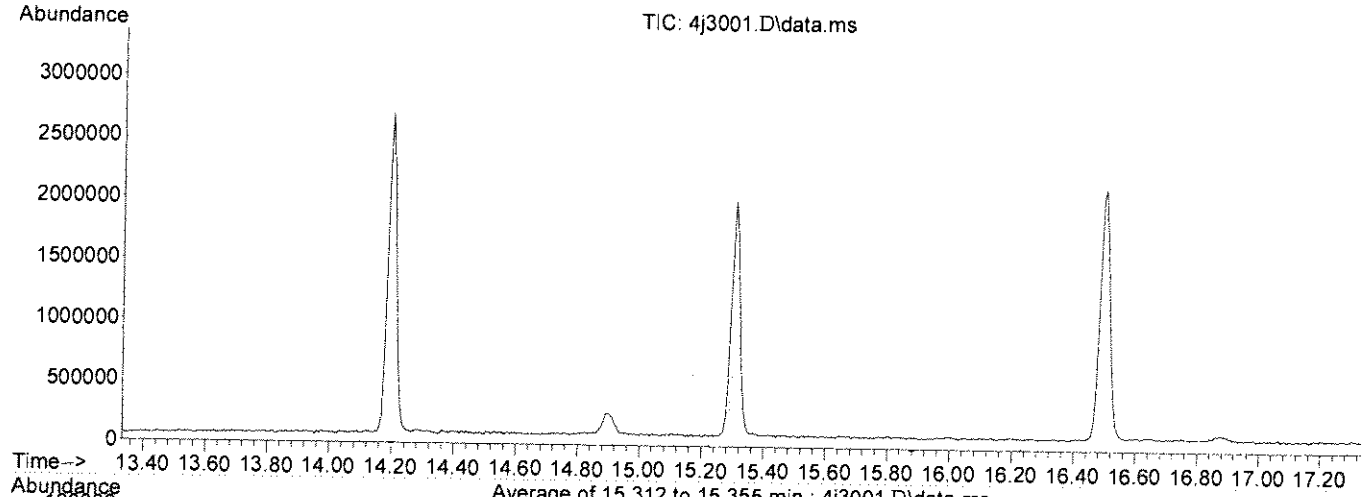
ANALYTE	EXPECTED (ug/L)	FOUND (ug/L)	% DRIFT	QC LIMIT
Toluene-d8	5.00	5.06	1.1	20.00
1,4-Dioxane	25.0	25.7	2.8	20.00

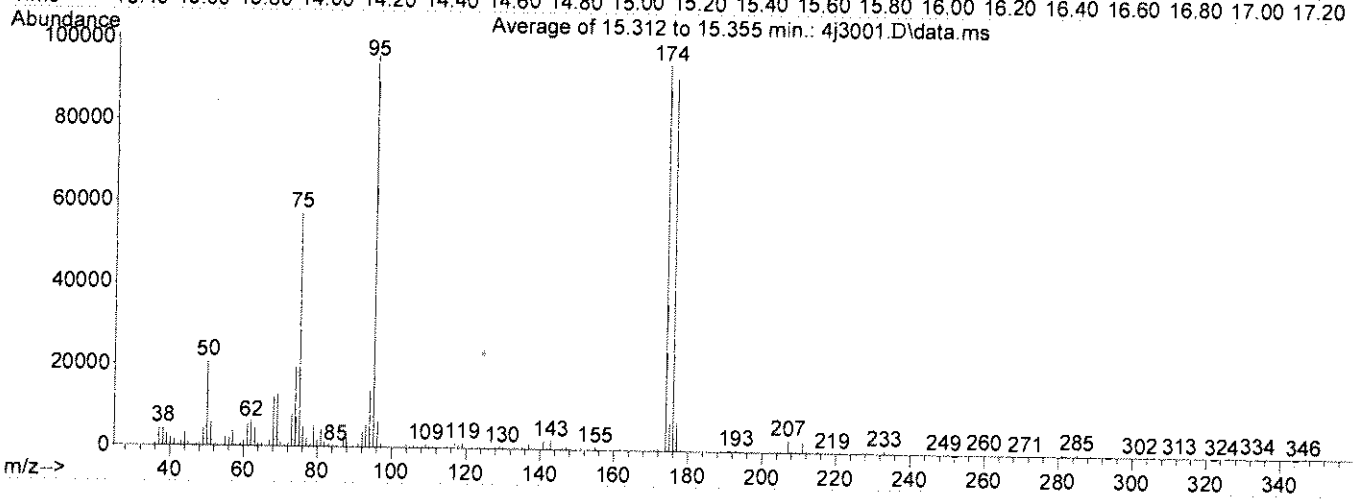
* Values outside of QC limits

Data Path : C:\msdchem\1\DATA\100311\
Data File : 4j3001.D
Acq On : 3 Oct 2011 13:28
Operator : kat
Sample : bfb 50 ng
Misc :
ALS Vial : 1 Sample Multiplier: 1

Integration File: rteint.p

Method : C:\msdchem\1\METHODS\METHODS\D1106015.M
Title : ENCO SOPVGCMS/10;element cal 1106015
Last Update : Mon Jun 13 12:21:39 2011





Spectrum Information: Average of 15.312 to 15.355 min.

Target Mass	Rel. to Mass	Lower Limit%	Upper Limit%	Rel. Abn%	Raw Abn	Result Pass/Fail
50	95	15	40	21.6	20722	PASS
75	95	30	60	59.7	57203	PASS
95	95	100	100	100.0	95886	PASS
96	95	5	9	6.9	6599	PASS
173	174	0.00	2	0.3	268	PASS
174	95	50	100	98.5	94453	PASS
175	174	5	9	7.2	6841	PASS
176	174	95	101	96.5	91122	PASS
177	176	5	9	7.6	6940	PASS

KT 10.3.11.

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\DATA\100311\
Data File : 4j3003.D
Acq On : 3 Oct 2011 14:29
Operator : kat
Sample : 25 ppb cvs
Misc :
ALS Vial : 3 Sample Multiplier: 1
InstName : OVGCMS4

KDW 10-4-11

Quant Time: Oct 04 09:25:20 2011
Quant Method : C:\msdchem\1\METHODS\METHODS\D1106015.M
Quant Title : ENCO SOPVGCMS/10;element cal 1106015
QLast Update : Mon Jun 13 12:21:39 2011
Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc Units	Dev(Min)
1) 1,4-Difluorobenzene(IS)	11.498	114	4653579m	5.000 ug/L	0.00
4) 1,4-Dioxane-d8	12.181	64	176152	50.000 ug/l	-0.07
System Monitoring Compounds					
2) D8-Toluene	12.797	98	5614683	5.764 ug/L	0.00
Spiked Amount 5.000	Range 79 - 127		Recovery = 115.280%		
Target Compounds					Qvalue
3) D8-Toluene	12.797	98	5614683	5.764 ug/L	94
5) 1,4-Dioxane	12.224	88	152720	26.835 ug/l #	73

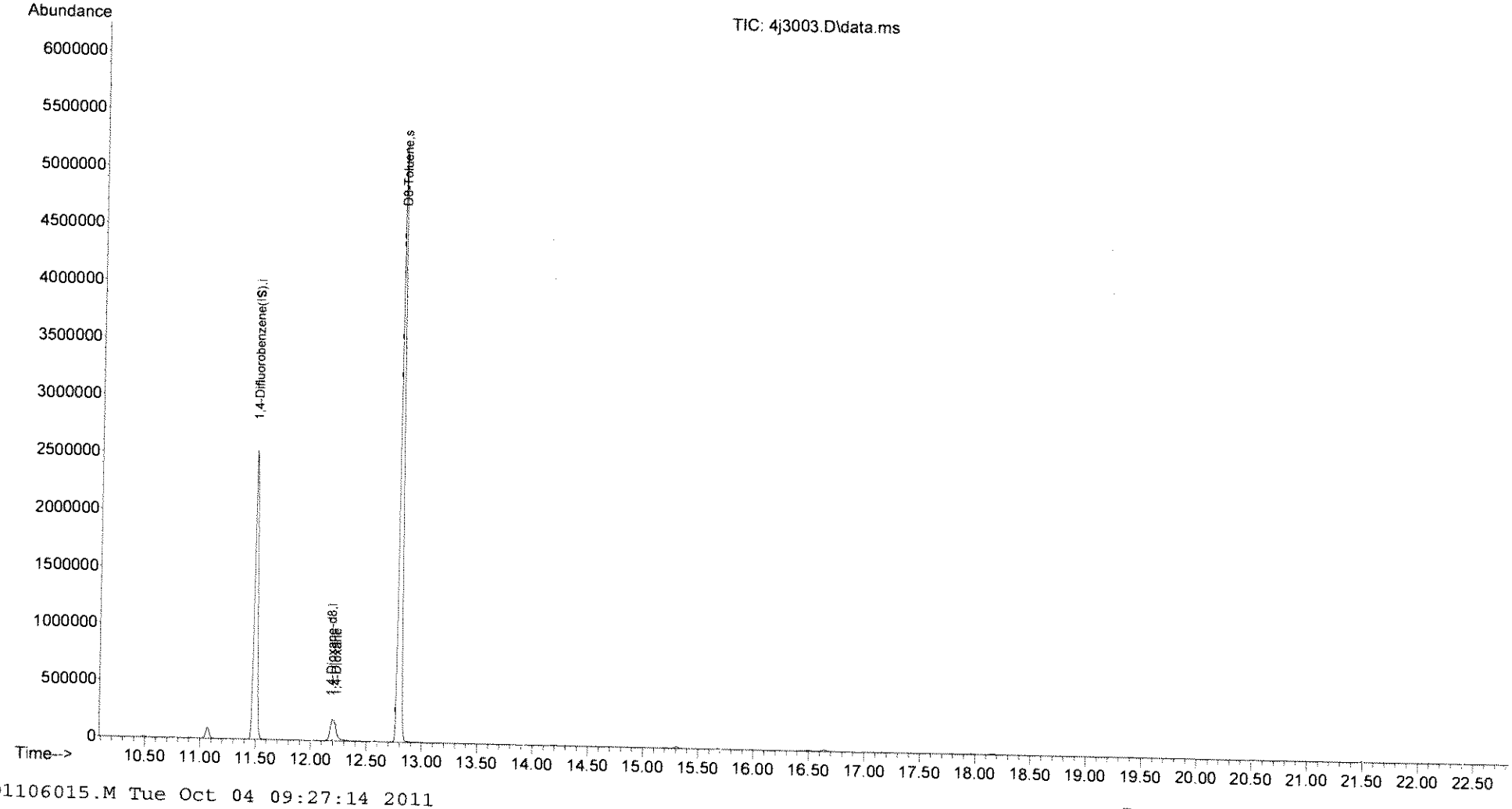
(#) = qualifier out of range (m) = manual integration (+) = signals summed

I 20%

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\DATA\100311\
Data File : 4j3003.D
Acq On : 3 Oct 2011 14:29
Operator : kat
Sample : 25 ppb cvs
Misc :
ALS Vial : 3 Sample Multiplier: 1
InstName : OVGCMS4

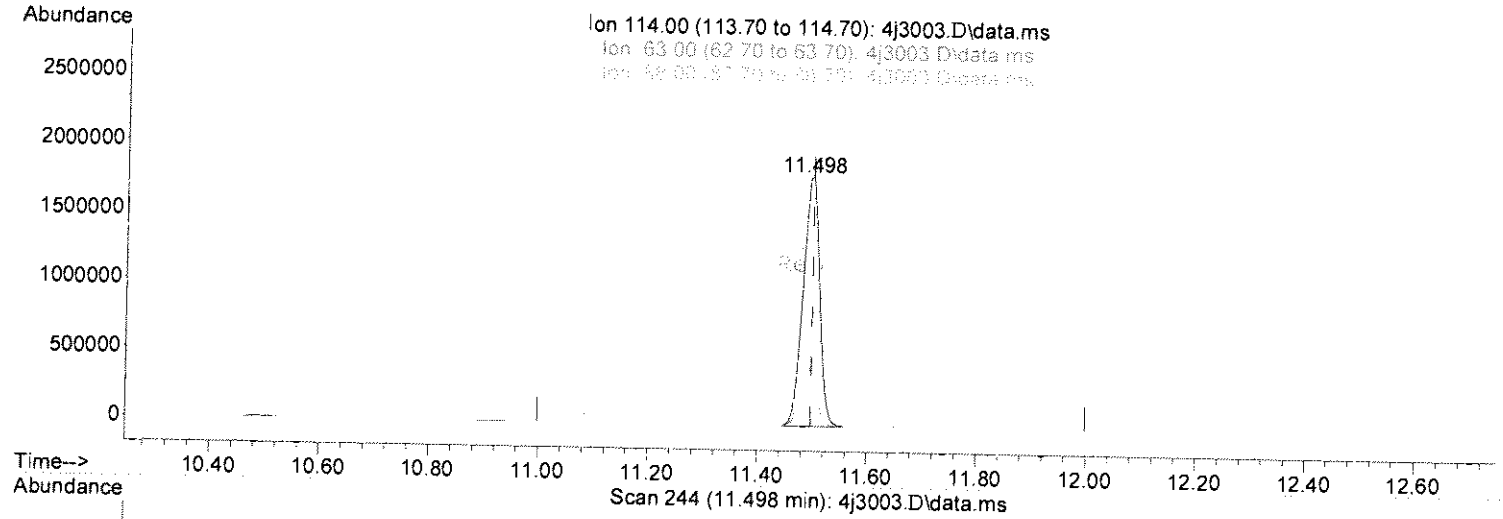
Quant Time: Oct 04 09:25:20 2011
Quant Method : C:\msdchem\1\METHODS\METHODS\D1106015.M
Quant Title : ENCO SOPVGCMS/10;element cal 1106015
QLast Update : Mon Jun 13 12:21:39 2011
Response via : Initial Calibration

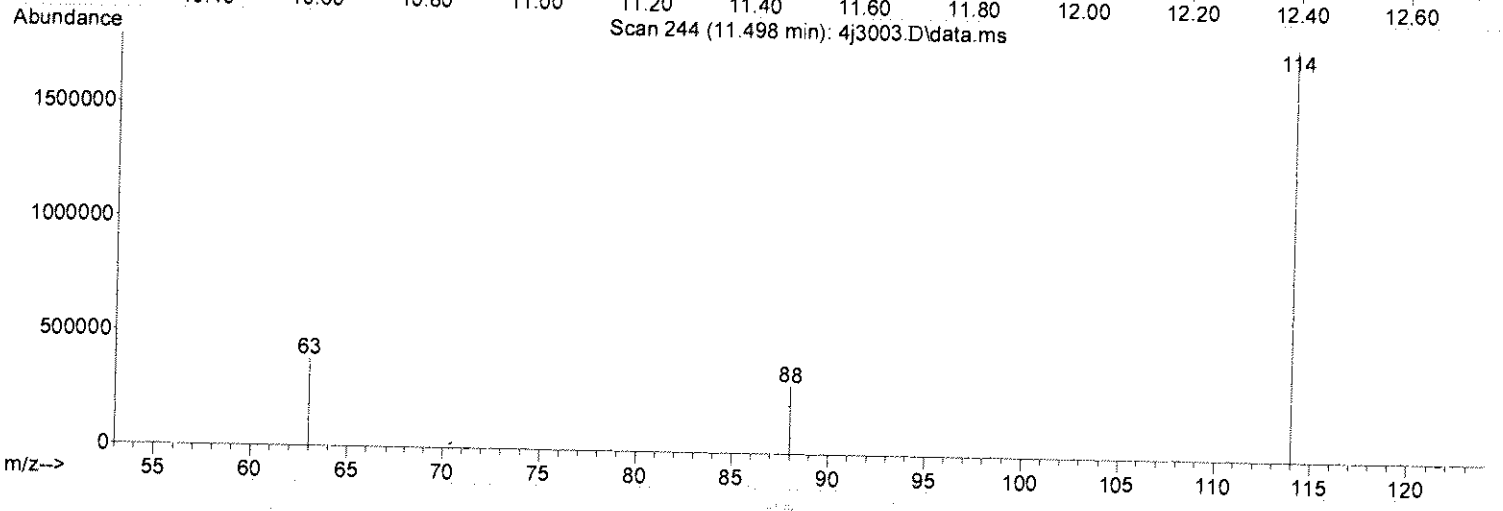


Quantitation Report (Qedit)

Data Path : C:\msdchem\1\DATA\100311\
Data File : 4j3003.D
Acq On : 3 Oct 2011 14:29
Operator : kat
Sample : 25 bbb cvs
Misc :
ALS Vial : 3 Sample Multiplier: 1
InstName : OVGCMS4

Quant Time: Oct 04 09:24:23 2011
Quant Method : C:\msdchem\1\METHODS\METHODS\D1106015.M
Quant Title : ENCO SOPVGCMS/10;element cal 1106015
QLast Update : Mon Jun 13 12:21:39 2011
Response via : Initial Calibration





TIC: 4j3003.D\data.ms

(1) 1,4-Difluorobenzene(IS) (i)

11.498min (+0.000) 5.00ug/L

response 3797993

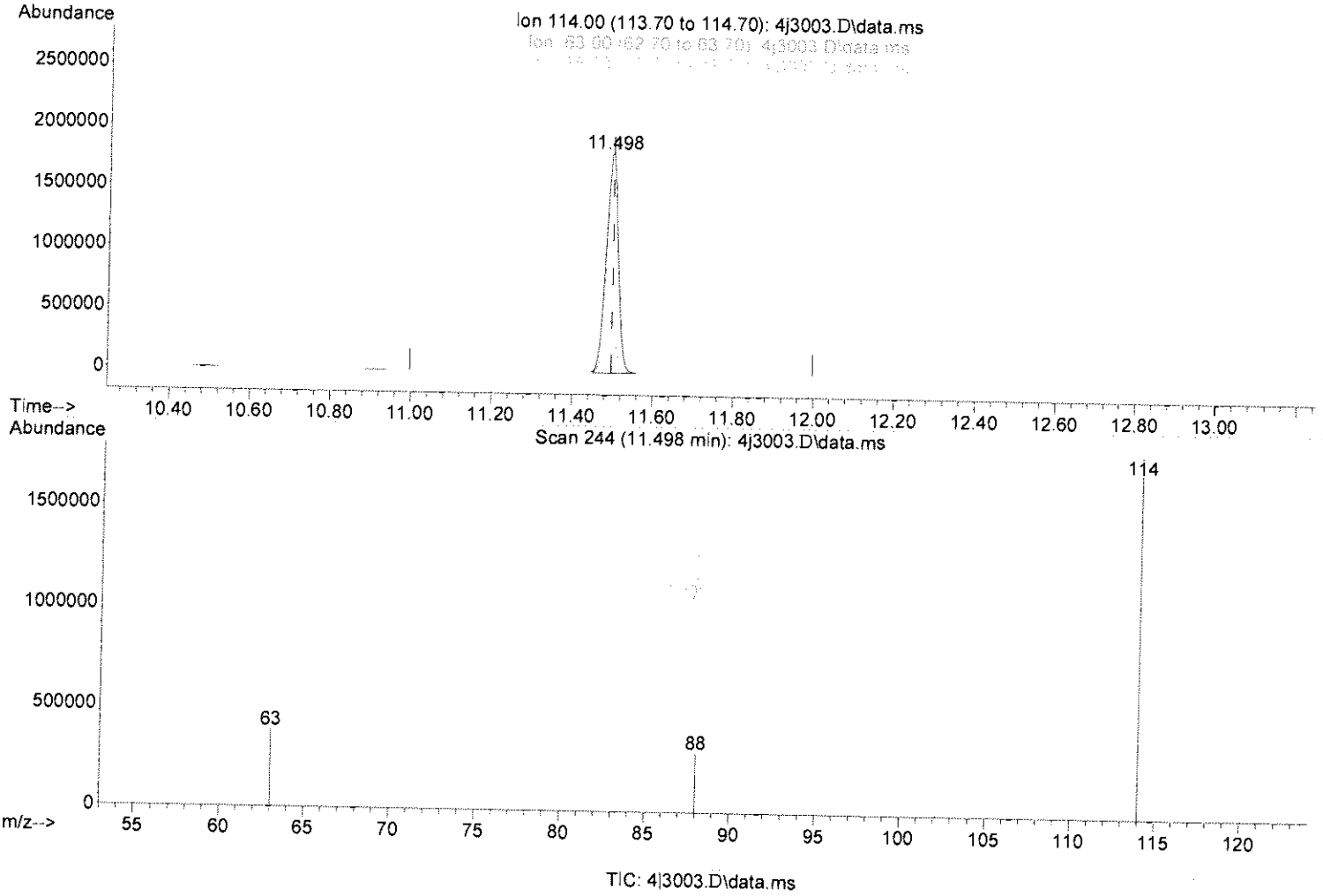
Ion	Exp%	Act%
114.00	100	100
63.00	22.60	23.25
88.00	19.00	16.81
0.00	0.00	0.00

Select one:
[✓] Original integration [ ] Manual integration
Select reason for manual integration:
[ ] Poor integration (peak tailing, baseline selection)
[ ] Incorrect peak selection/Peak not found
[ ] Hump integration
[ ] Baseline drop for split peaks
[ ] ISTD reintegration
[ ] Other:
Review by/Date: KDW 10-4-11
Review by/Date: KAT 10.4.11

Quantitation Report (Qedit)

Data Path : C:\msdchem\1\DATA\100311\
Data File : 4j3003.D
Acq On : 3 Oct 2011 14:29
Operator : kat
Sample : 25 bbb cvs
Misc :
ALS Vial : 3 Sample Multiplier: 1
InstName : OVGCMS4

Quant Time: Oct 04 09:24:23 2011
Quant Method : C:\msdchem\1\METHODS\METHODS\D1106015.M
Quant Title : ENCO SOPVGCMS/10;element cal 1106015
QLast Update : Mon Jun 13 12:21:39 2011
Response via : Initial Calibration



TIC: 4j3003.D\data.ms

(1) 1,4-Difluorobenzene(IS) (i)

11.498min (+0.000) 5.00ug/L m

response 4653579

Ion	Exp%	Act%
114.00	100	100
63.00	22.60	18.98
88.00	19.00	13.72
0.00	0.00	0.00

Select one:
[ ] Original integration [✓] Manual integration
Select reason for manual integration:
[ ] Poor integration (peak tailing, baseline selection)
[ ] Incorrect peak selection/Peak not found
[ ] Hump integration
[ ] Baseline drop for split peaks
[✓] ISTD reintegration
[ ] Other:
Review by/Date: KDW 10-4-11
Review by/Date: KAT 10-4-11

ANALYSIS SEQUENCE

AA15332

Instrument: OVGCMS4

Calibration ID: 1106015

Lab Number	Analysis	Container	Order	Position	STD ID	ISTD ID	Client
AA15332-TUN1	QC		1		A1D0342		
AA15332-ICB1	QC		2			A1D0551	
AA15332-CAL1	QC		3		A1E0104	A1D0551	
AA15332-CAL2	QC		4		A1E0105	A1D0551	
AA15332-CAL3	QC		5		A1E0106	A1D0551	
AA15332-CAL4	QC		6		A1E0107	A1D0551	
AA15332-CAL5	QC		7		A1E0108	A1D0551	
AA15332-TUN2	QC		8		A1D0342		
AA15332-SCV1	QC		9		A1E0109	A1D0551	

Samples Loaded By _____ Date _____

Data Processed By _____ Date _____

Internal Standards	CVS RT	-0.5	0.5
1,4-dichlorobenzene	11.50	11.00	12.00
1,4-dioxane-d8	12.25	11.75	12.75

CVS = 3dn011

Internal Standard	CVS Response	50%	200%
1,4-Difluorobenzene	5553767	2776884	11107534
1,4-dioxane-d8	191008	95504	382016

KT
060911.

ANALYSIS SEQUENCE

AA15332

Instrument: OVGCMS4

Calibration ID: UNASSIGNED

Lab Number	Analysis	Container	Order	Position	STD ID	ISTD ID	Client
AA15332-TUN1	QC		1		A1D0342		
AA15332-ICB1	QC		2			A1D0551	
AA15332-CAL1	QC		3		A1E0104	A1D0551	
AA15332-CAL2	QC		4		A1E0105	A1D0551	
AA15332-CAL3	QC		5		A1E0106	A1D0551	
AA15332-CAL4	QC		6		A1E0107	A1D0551	
AA15332-CAL5	QC		7		A1E0108	A1D0551	
AA15332-SCV1	QC		8		A1E0109	A1D0551	

Samples Loaded By _____ Date _____

Data Processed By _____ Date _____

Response Factor Report OVGCMS4

Method Path : C:\msdchem\1\METHODS\METHODS\
Method File : D1106015.M
Title : ENCO SOPVGCMS/10;element cal 1106015
Last Update : Tue Jun 07 12:11:55 2011
Response Via : Initial Calibration

Calibration Files
2 =4FA003.D 4 =4FA004.D 25 =4FA005.D 40 =4FA006.D 80 =4FA007.D

		Compound	2	4	25	40	80	Avg	%RSD
1)	i	1,4-Difluorobenzen...	----------ISTD----------						
2)	s	D8-Toluene	0.929	1.007	1.105	1.107	1.086	1.047	7.40
3)		D8-Toluene	0.929	1.007	1.105	1.107	1.086	1.047	7.40
4)	i	1,4-Dioxane-d8	----------ISTD----------						
5)		1,4-Dioxane	1.534	1.658	1.703	1.644	1.537	1.615	4.70

(#) = Out of Range

KT06911

CC ISTD Areas

CC Data File : C:\msdchem\1\DATA\060611\4FA005.D
Date Acquired: 6 Jun 2011 17:58

ISTD Name	Response
1,4-Difluorobenzene(IS)	5553770
1,4-Dioxane-d8	191008

Surrogates

D8-Toluene

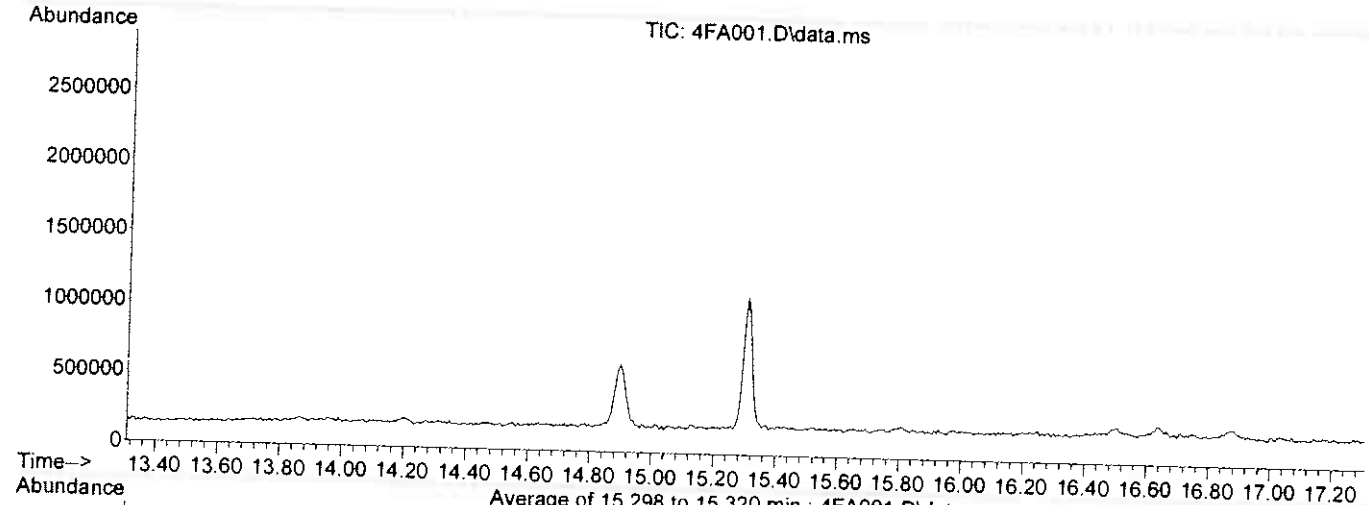
6060911

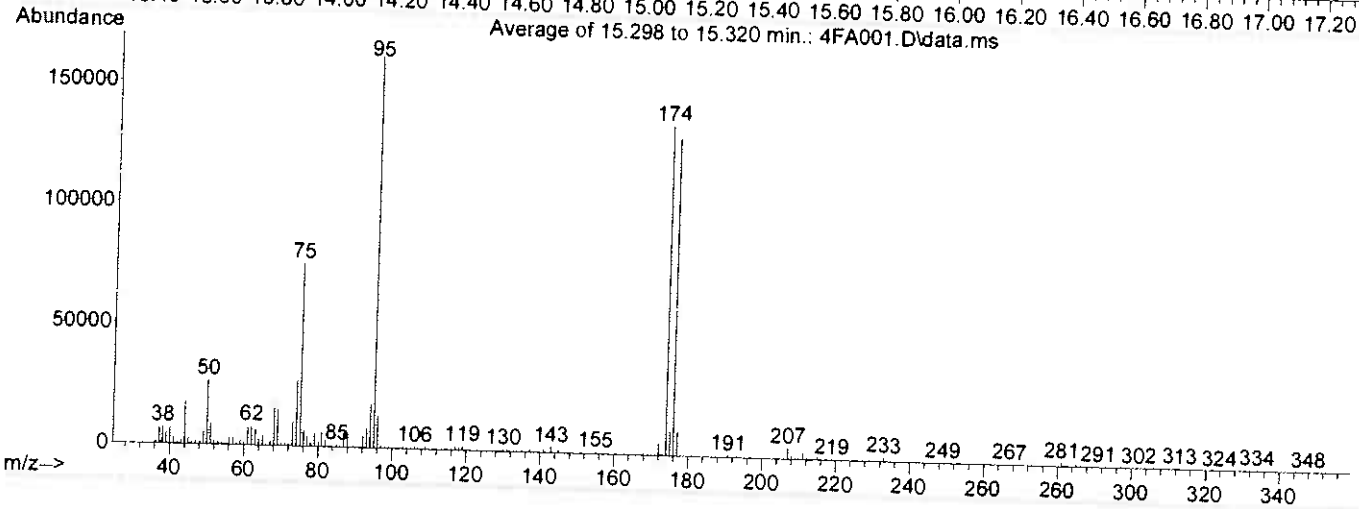
BFB

Data Path : C:\msdchem\1\DATA\060611\
Data File : 4FA001.D
Acq On : 6 Jun 2011 15:49
Operator : kat
Sample : BFB 50ng
Misc :
ALS Vial : 1 Sample Multiplier: 1

Integration File: rteint.p

Method : C:\msdchem\1\METHODS\METHODS\D1106015.M
Title : ENCO SOPVGCMS/10;element cal 1106015
Last Update : Tue Jun 07 11:53:03 2011





Spectrum Information: Average of 15.298 to 15.320 min.

Target Mass	Rel. to Mass	Lower Limit%	Upper Limit%	Rel. Abn%	Raw Abn	Result Pass/Fail
50	95	15	40	16.6	26818	PASS
75	95	30	60	46.8	75742	PASS
95	95	100	100	100.0	161788	PASS
96	95	5	9	8.2	13219	PASS
173	174	0.00	2	0.5	650	PASS
174	95	50	100	84.3	136366	PASS
175	174	5	9	7.6	10334	PASS
176	174	95	101	96.2	131138	PASS
177	176	5	9	7.6	10001	PASS

KT 060911

Quantitation Report (Not Reviewed)

Data Path : C:\msdchem\1\DATA\060611\
Data File : 4FA002.D
Acq On : 6 Jun 2011 16:18
Operator : kat
Sample : ICB
Misc :
ALS Vial : 2 Sample Multiplier: 1
InstName : OVGCMS4

Quant Time: Jun 07 12:08:03 2011
Quant Method : C:\msdchem\1\METHODS\METHODS\D1106015.M
Quant Title : ENCO SOPVGCMS/10;element cal 1106015
QLast Update : Tue Jun 07 11:53:03 2011
Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc Units	Dev(Min)
1) 1,4-Difluorobenzene(IS)	11.497	114	4709850	5.000 ug/L	0.00
4) 1,4-Dioxane-d8	12.181	64	98740	50.000 ug/l	-0.07
System Monitoring Compounds					
2) D8-Toluene	12.800	98	6188732	6.277 ug/L	0.00
Spiked Amount 5.000			Recovery	= 125.540%	
Target Compounds					Qvalue
3) D8-Toluene	12.800	98	6188732	6.277 ug/L	95
5) 1,4-Dioxane	12.209	88	940	0.295 ug/l #	1

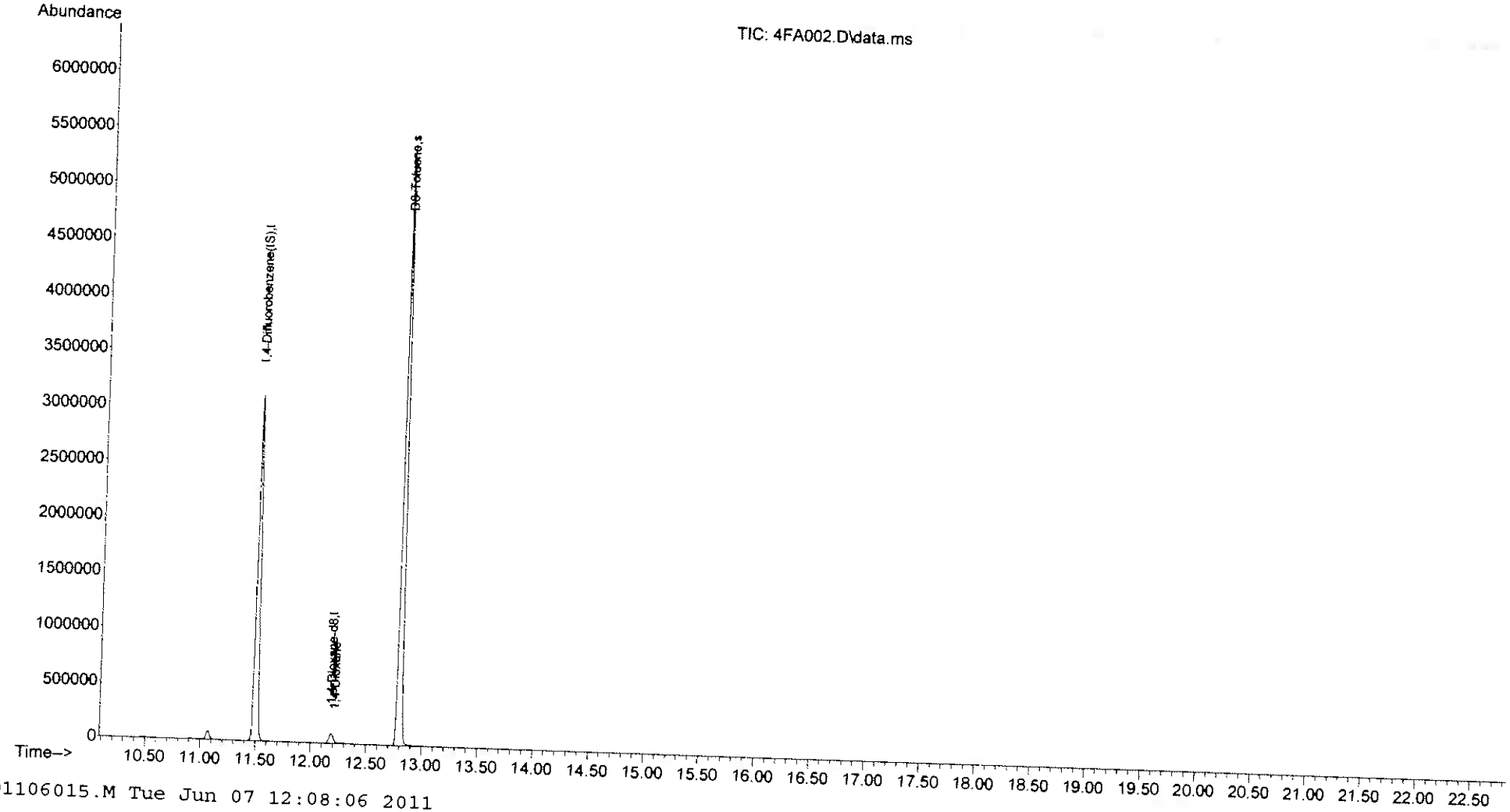
(#) = qualifier out of range (m) = manual integration (+) = signals summed

K1060911

Quantitation Report (Not Reviewed)

Data Path : C:\msdchem\1\DATA\060611\
Data File : 4FA002.D
Acq On : 6 Jun 2011 16:18
Operator : kat
Sample : ICB
Misc :
ALS Vial : 2 Sample Multiplier: 1
InstName : OVGCMS4

Quant Time: Jun 07 12:08:03 2011
Quant Method : C:\msdchem\1\METHODS\METHODS\D1106015.M
Quant Title : ENCO SOPVGCMS/10;element cal 1106015
QLast Update : Tue Jun 07 11:53:03 2011
Response via : Initial Calibration



Quantitation Report (Not Reviewed)

Data Path : C:\msdchem\1\DATA\060611\
Data File : 4FA003.D
Acq On : 6 Jun 2011 16:51
Operator : kat
Sample : 2 ppb std
Misc :
ALS Vial : 3 Sample Multiplier: 1
InstName : OVGCMS4

Quant Time: Jun 07 12:08:28 2011
Quant Method : C:\msdchem\1\METHODS\METHODS\D1106015.M
Quant Title : ENCO SOPVGCMS/10;element cal 1106015
QLast Update : Tue Jun 07 11:53:03 2011
Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc Units	Dev(Min)
1) 1,4-Difluorobenzene(IS)	11.497	114	5546634	5.000 ug/L	0.00
4) 1,4-Dioxane-d8	12.253	64	258517	50.000 ug/l	0.00
System Monitoring Compounds					
2) D8-Toluene	12.794	98	1030216	0.887 ug/L	0.00
Spiked Amount 5.000			Recovery	= 17.740%	
Target Compounds					Qvalue
3) D8-Toluene	12.794	98	1030216	0.887 ug/L	95
5) 1,4-Dioxane	12.267	88	15866	1.900 ug/l #	1

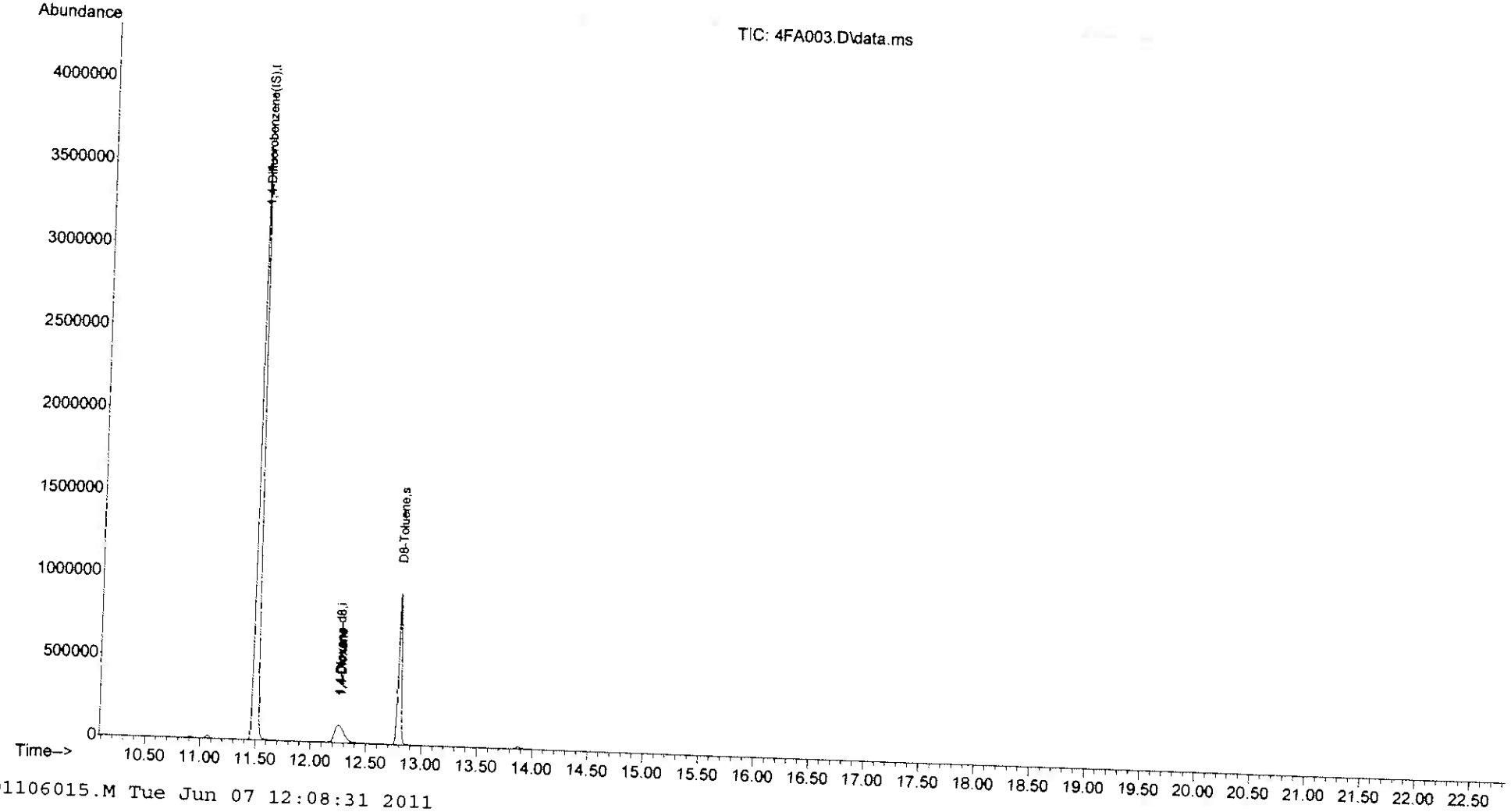
(#) = qualifier out of range (m) = manual integration (+) = signals summed

K7060911

Quantitation Report (Not Reviewed)

Data Path : C:\msdchem\1\DATA\060611\
Data File : 4FA003.D
Acq On : 6 Jun 2011 16:51
Operator : kat
Sample : 2 ppb std
Misc :
ALS Vial : 3 Sample Multiplier: 1
InstName : OVGCMS4

Quant Time: Jun 07 12:08:28 2011
Quant Method : C:\msdchem\1\METHODS\METHODS\D1106015.M
Quant Title : ENCO SOPVGCMS/10;element cal 1106015
QLast Update : Tue Jun 07 11:53:03 2011
Response via : Initial Calibration



Quantitation Report (Not Reviewed)

Data Path : C:\msdchem\1\DATA\060611\
Data File : 4FA004.D
Acq On : 6 Jun 2011 17:24
Operator : kat
Sample : 4 ppb std
Misc :
ALS Vial : 4 Sample Multiplier: 1
InstName : OVGCMS4

Quant Time: Jun 07 12:08:37 2011
Quant Method : C:\msdchem\1\METHODS\METHODS\D1106015.M
Quant Title : ENCO SOPVGCMS/10;element cal 1106015
QLast Update : Tue Jun 07 11:53:03 2011
Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc Units	Dev(Min)
1) 1,4-Difluorobenzene(IS)	11.497	114	5459785	5.000 ug/L	0.00
4) 1,4-Dioxane-d8	12.253	64	236794	50.000 ug/l	0.00
System Monitoring Compounds					
2) D8-Toluene	12.794	98	3299707	2.887 ug/L	0.00
Spiked Amount 5.000			Recovery	= 57.740%	
Target Compounds					Qvalue
3) D8-Toluene	12.794	98	3299707	2.887 ug/L	95
5) 1,4-Dioxane	12.281	88	31407	4.105 ug/l #	1

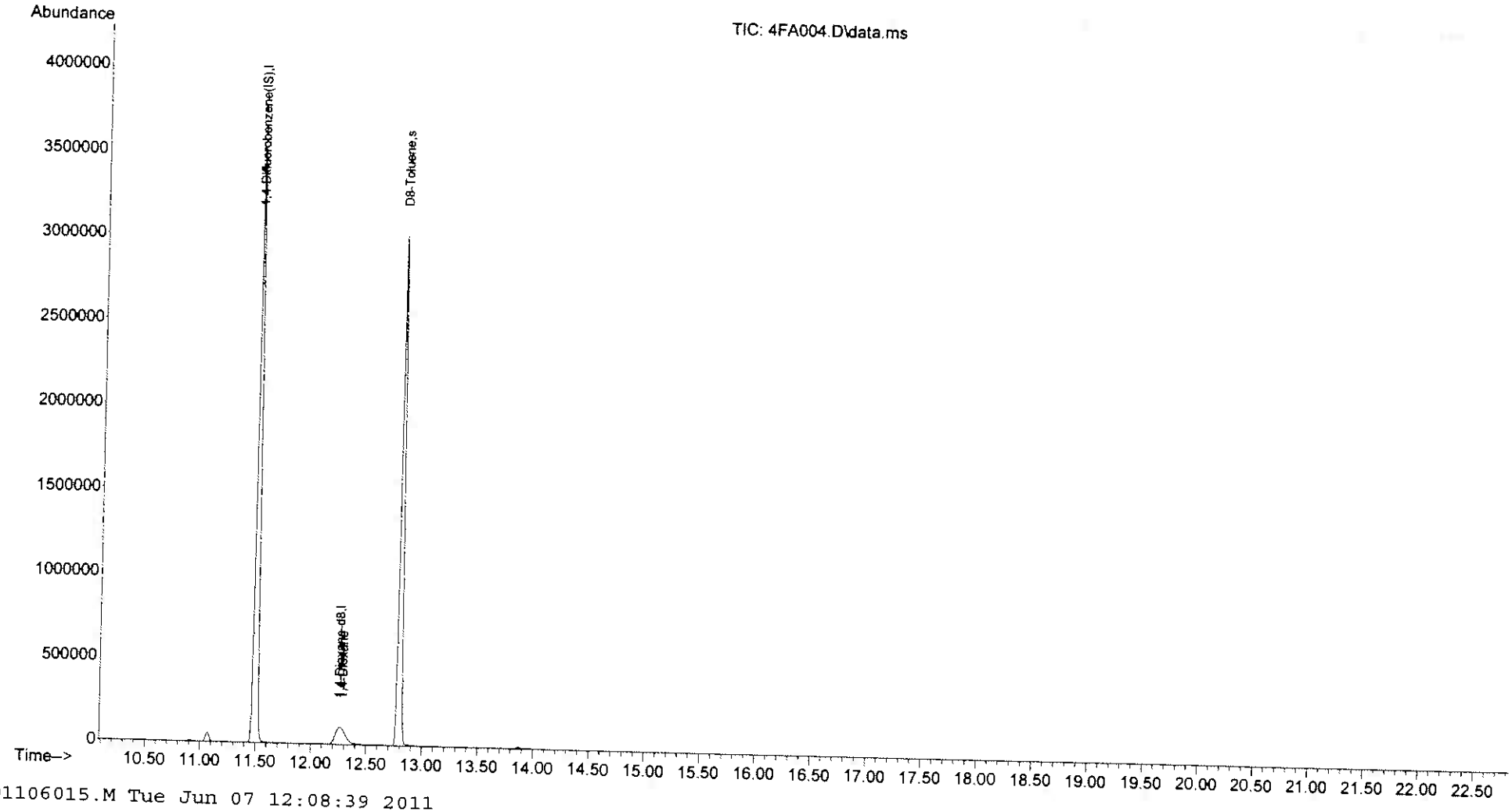
(#) = qualifier out of range (m) = manual integration (+) = signals summed

K1060911

Quantitation Report (Not Reviewed)

Data Path : C:\msdchem\1\DATA\060611\
Data File : 4FA004.D
Acq On : 6 Jun 2011 17:24
Operator : kat
Sample : 4 ppb std
Misc :
ALS Vial : 4 Sample Multiplier: 1
InstName : OVGCMS4

Quant Time: Jun 07 12:08:37 2011
Quant Method : C:\msdchem\1\METHODS\METHODS\D1106015.M
Quant Title : ENCO SOPVGCMS/10;element cal 1106015
QLast Update : Tue Jun 07 11:53:03 2011
Response via : Initial Calibration



Quantitation Report (Not Reviewed)

Data Path : C:\msdchem\1\DATA\060611\
Data File : 4FA005.D
Acq On : 6 Jun 2011 17:58
Operator : kat
Sample : 25 ppb std
Misc :
ALS Vial : 5 Sample Multiplier: 1
InstName : OVGCMS4

Quant Time: Jun 07 12:08:45 2011
Quant Method : C:\msdchem\1\METHODS\METHODS\D1106015.M
Quant Title : ENCO SOPVGCMS/10;element cal 1106015
QLast Update : Tue Jun 07 11:53:03 2011
Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc Units	Dev(Min)
1) 1,4-Difluorobenzene(IS)	11.498	114	5553767	5.000 ug/L	0.00
4) 1,4-Dioxane-d8	12.253	64	191008	50.000 ug/l	0.00
System Monitoring Compounds					
2) D8-Toluene	12.794	98	6134445	5.276 ug/L	0.00
Spiked Amount 5.000			Recovery	= 105.520%	
Target Compounds					Qvalue
3) D8-Toluene	12.794	98	6134445	5.276 ug/L	92
5) 1,4-Dioxane	12.281	88	162670	26.361 ug/l #	72

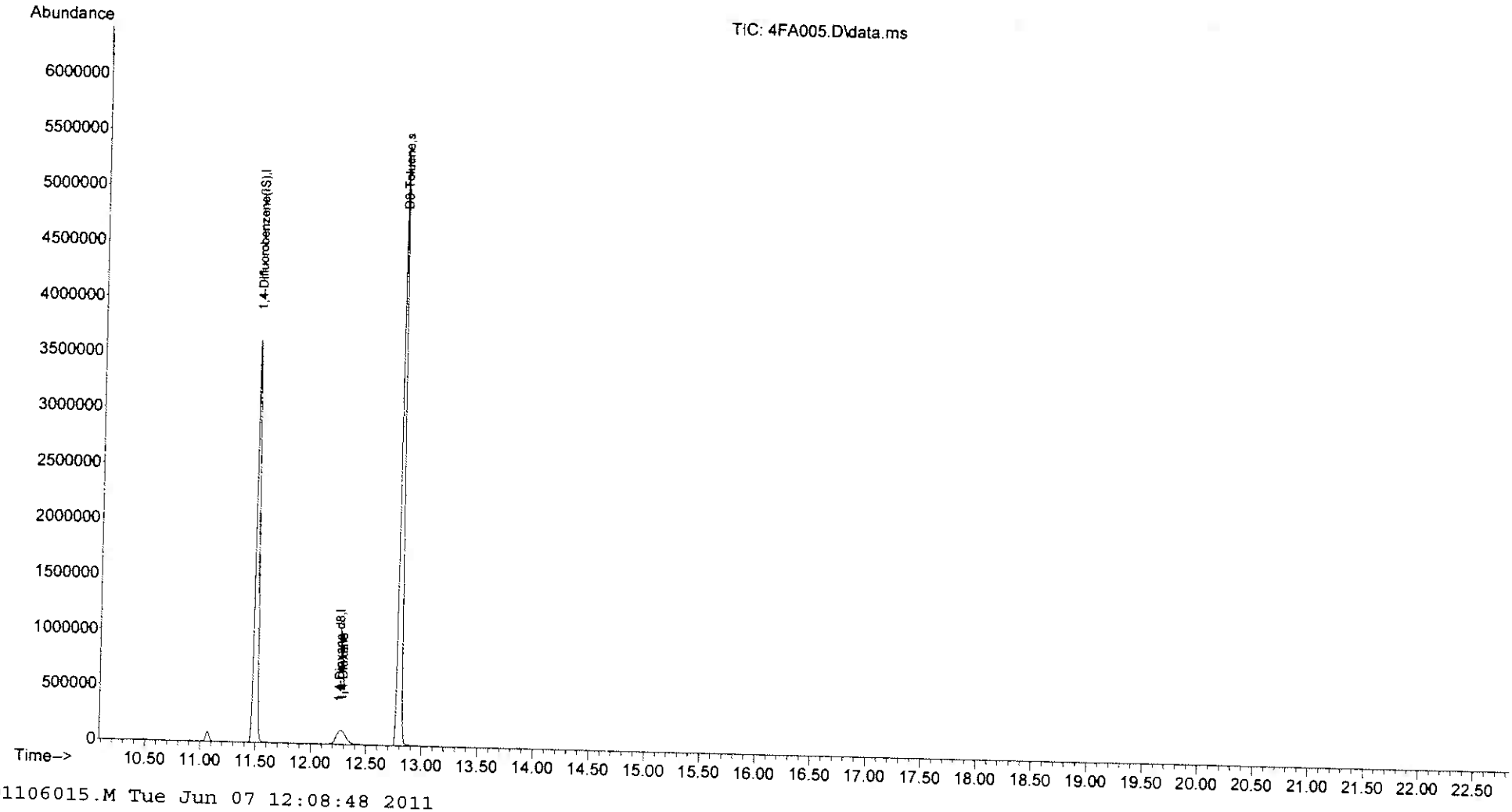
(#) = qualifier out of range (m) = manual integration (+) = signals summed

K7D060911

Quantitation Report (Not Reviewed)

Data Path : C:\msdchem\1\DATA\060611\
Data File : 4FA005.D
Acq On : 6 Jun 2011 17:58
Operator : kat
Sample : 25 ppb std
Misc :
ALS Vial : 5 Sample Multiplier: 1
InstName : OVGCMS4

Quant Time: Jun 07 12:08:45 2011
Quant Method : C:\msdchem\1\METHODS\METHODS\D1106015.M
Quant Title : ENCO SOPVGCMS/10;element cal 1106015
QLast Update : Tue Jun 07 11:53:03 2011
Response via : Initial Calibration



Quantitation Report (Not Reviewed)

Data Path : C:\msdchem\1\DATA\060611\
Data File : 4FA006.D
Acq On : 6 Jun 2011 18:34
Operator : kat
Sample : 40 ppb std
Misc :
ALS Vial : 6 Sample Multiplier: 1
InstName : OVGCMS4

Quant Time: Jun 07 12:08:53 2011
Quant Method : C:\msdchem\1\METHODS\METHODS\D1106015.M
Quant Title : ENCO SOPVGCMS/10;element cal 1106015
QLast Update : Tue Jun 07 11:53:03 2011
Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc Units	Dev(Min)
1) 1,4-Difluorobenzene(IS)	11.492	114	5515045	5.000 ug/L	0.00
4) 1,4-Dioxane-d8	12.253	64	247344	50.000 ug/l	0.00
System Monitoring Compounds					
2) D8-Toluene	12.794	98	9766024	8.459 ug/L	0.00
Spiked Amount 5.000			Recovery	= 169.180%	
Target Compounds					Qvalue
3) D8-Toluene	12.794	98	9766024	8.459 ug/L	93
5) 1,4-Dioxane	12.281	88	325320	40.711 ug/l #	69

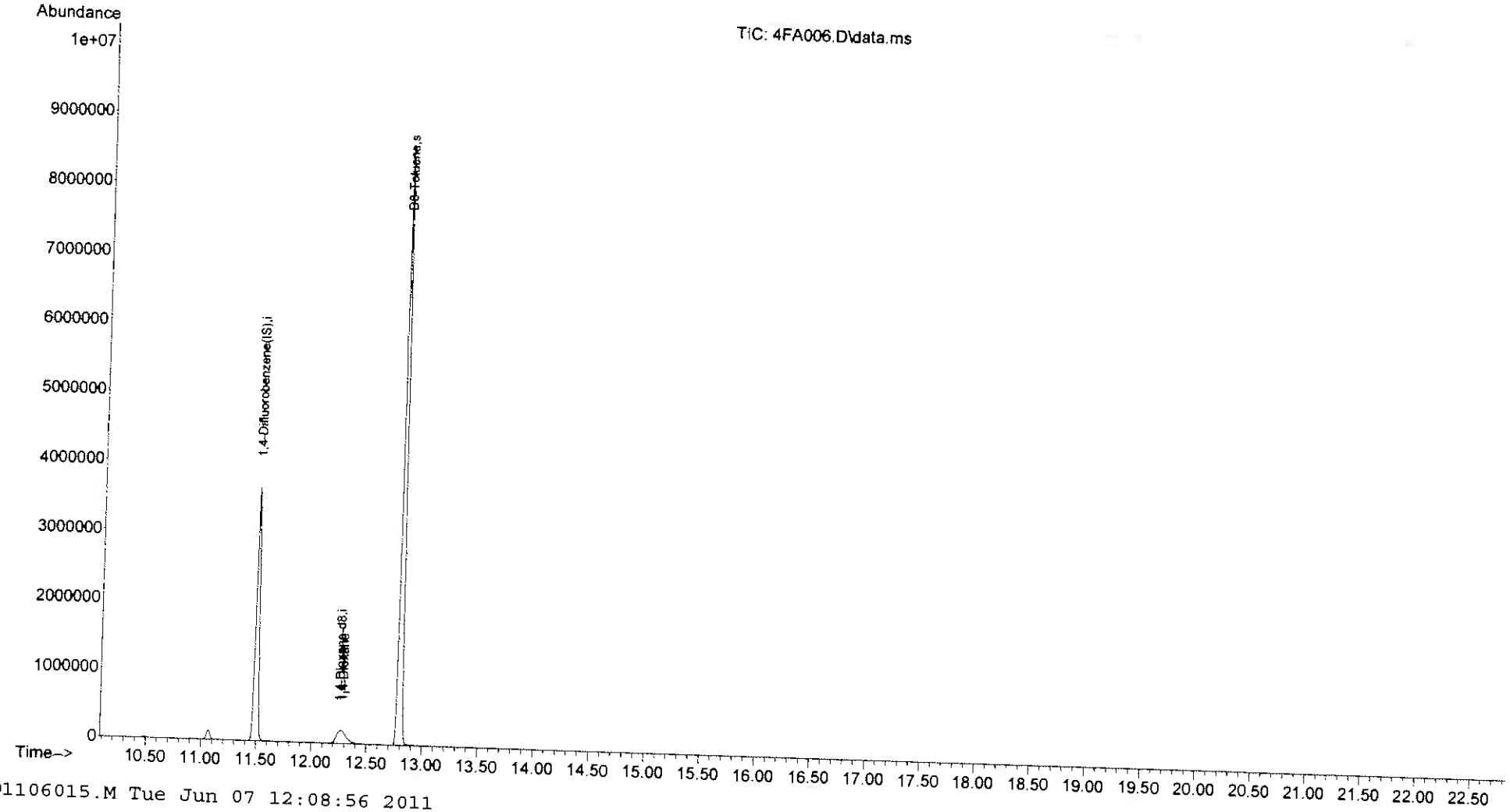
(#) = qualifier out of range (m) = manual integration (+) = signals summed

6/7/2011

Quantitation Report (Not Reviewed)

Data Path : C:\msdchem\1\DATA\060611\
Data File : 4FA006.D
Acq On : 6 Jun 2011 18:34
Operator : kat
Sample : 40 ppb std
Misc :
ALS Vial : 6 Sample Multiplier: 1
InstName : OVGCMS4

Quant Time: Jun 07 12:08:53 2011
Quant Method : C:\msdchem\1\METHODS\METHODS\D1106015.M
Quant Title : ENCO SOPVGCMS/10;element cal 1106015
QLast Update : Tue Jun 07 11:53:03 2011
Response via : Initial Calibration



Quantitation Report (Not Reviewed)

Data Path : C:\msdchem\1\DATA\060611\
Data File : 4FA007.D
Acq On : 6 Jun 2011 19:09
Operator : kat
Sample : 80 ppb std
Misc :
ALS Vial : 7 Sample Multiplier: 1
InstName : OVGCMS4

Quant Time: Jun 07 12:09:01 2011
Quant Method : C:\msdchem\1\METHODS\METHODS\D1106015.M
Quant Title : ENCO SOPVGCMS/10;element cal 1106015
QLast Update : Tue Jun 07 11:53:03 2011
Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc Units	Dev(Min)
1) 1,4-Difluorobenzene(IS)	11.492	114	5758591	5.000 ug/L	0.00
4) 1,4-Dioxane-d8	12.310	64	295410	50.000 ug/l	0.06
System Monitoring Compounds					
2) D8-Toluene	12.794	98	12510200	10.378 ug/L	0.00
Spiked Amount 5.000			Recovery	= 207.560%	
Target Compounds					Qvalue
3) D8-Toluene	12.794	98	12510200	10.378 ug/L	92
5) 1,4-Dioxane	12.324	88	726564	76.129 ug/l #	76

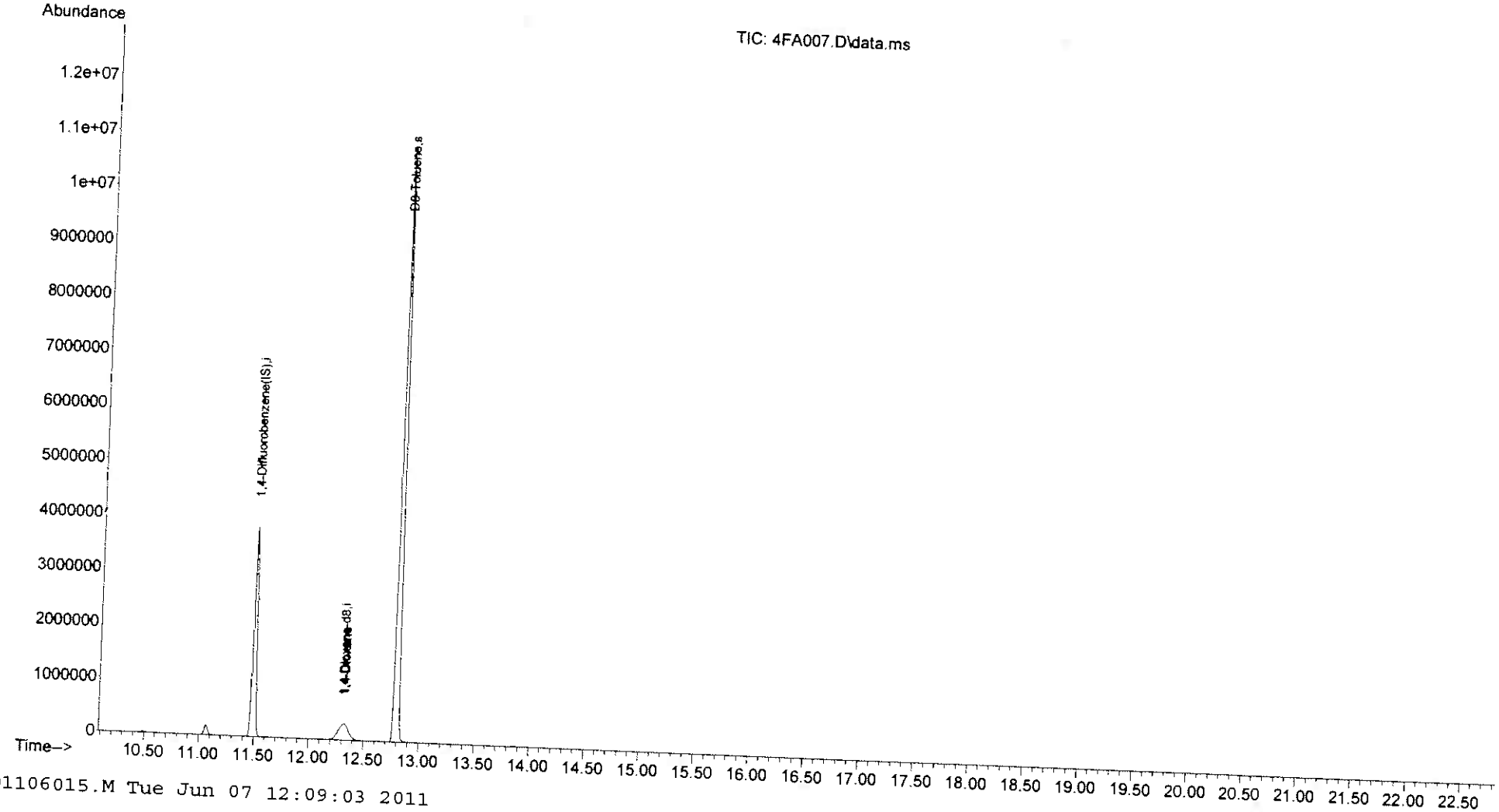
(#) = qualifier out of range (m) = manual integration (+) = signals summed

KT 060911

Quantitation Report (Not Reviewed)

Data Path : C:\msdchem\1\DATA\060611\
Data File : 4FA007.D
Acq On : 6 Jun 2011 19:09
Operator : kat
Sample : 80 ppb std
Misc :
ALS Vial : 7 Sample Multiplier: 1
InstName : OVGCMS4

Quant Time: Jun 07 12:09:01 2011
Quant Method : C:\msdchem\1\METHODS\METHODS\D1106015.M
Quant Title : ENCO SOPVGCMS/10;element cal 1106015
QLast Update : Tue Jun 07 11:53:03 2011
Response via : Initial Calibration



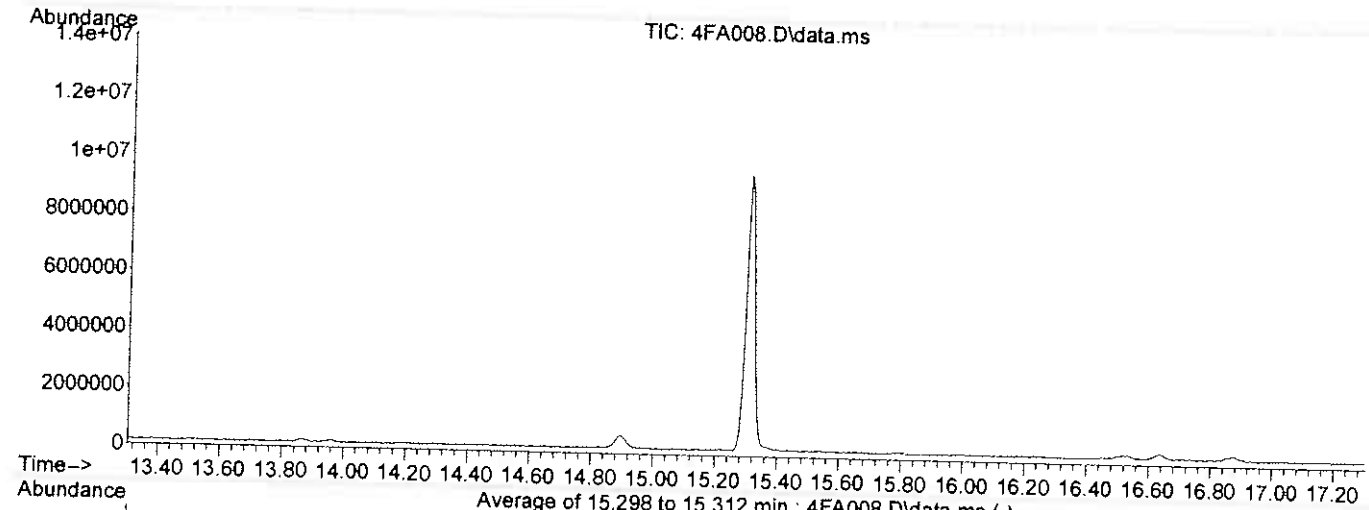
BFB

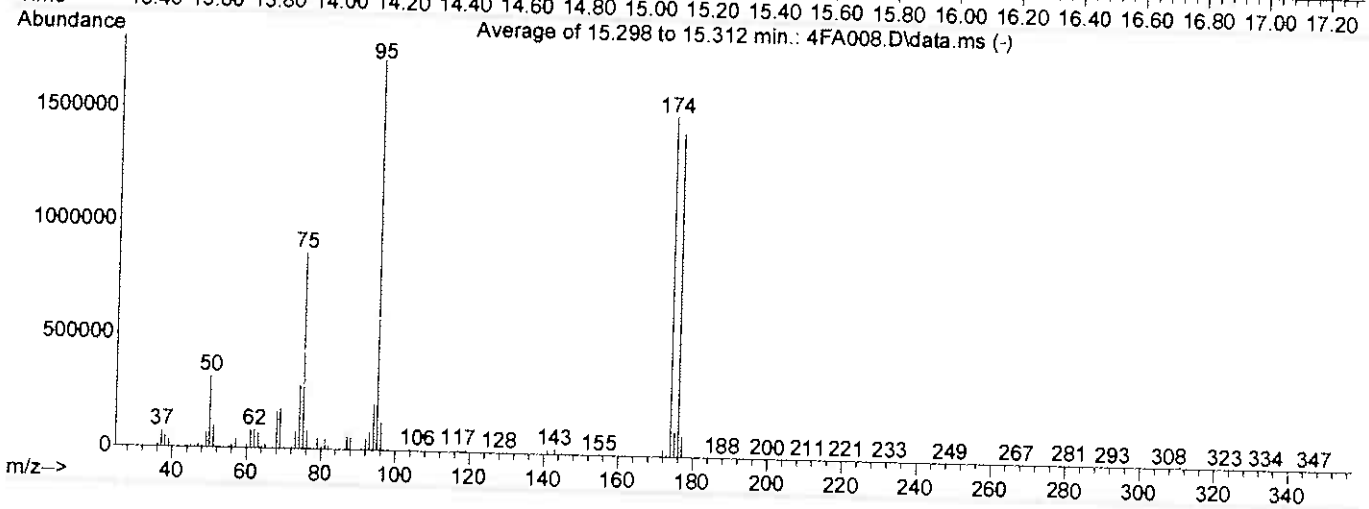
Data Path : C:\msdchem\1\DATA\060611\
Data File : 4FA008.D
Acq On : 7 Jun 2011 15:20
Operator : kat
Sample : bfb 50 ng
Misc :
ALS Vial : 8 Sample Multiplier: 1

Tune 2

Integration File: rteint.p

Method : C:\msdchem\1\METHODS\METHODS\D1106015.M
Title : ENCO SOPVGCMS/10;element cal 1106015
Last Update : Tue Jun 07 12:11:55 2011





AutoFind: Scans 1513, 1514, 1515; Background Corrected with Scan 1500

Target Mass	Rel. to Mass	Lower Limit%	Upper Limit%	Rel. Abn%	Raw Abn	Result Pass/Fail
50	95	15	40	18.3	315901	PASS
75	95	30	60	50.1	863995	PASS
95	95	100	100	100.0	1726235	PASS
96	95	5	9	7.0	120336	PASS
173	174	0.00	2	0.7	11113	PASS
174	95	50	100	86.8	1498794	PASS
175	174	5	9	7.6	113704	PASS
176	174	95	101	95.3	1427626	PASS
177	176	5	9	6.3	90039	PASS

KT 060911

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\DATA\060611\
Data File : 4FA009.D
Acq On : 7 Jun 2011 15:52
Operator : kat
Sample : blk
Misc :
ALS Vial : 9 Sample Multiplier: 1
InstName : OVGCMS4

Quant Time: Jun 09 12:26:01 2011
Quant Method : C:\msdchem\1\METHODS\METHODS\D1106015.M
Quant Title : ENCO SOPVGCMS/10;element cal 1106015
QLast Update : Tue Jun 07 12:11:55 2011
Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc Units	Dev(Min)
1) 1,4-Difluorobenzene(IS)	11.498	114	5163431	5.000 ug/L	0.00
4) 1,4-Dioxane-d8	12.233	64	149195	50.000 ug/l	-0.02
System Monitoring Compounds					
2) D8-Toluene	12.797	98	6084034	5.629 ug/L	0.00
Spiked Amount 5.000			Recovery	= 112.580%	
Target Compounds					Qvalue
3) D8-Toluene	12.797	98	6084034	5.629 ug/L	95
5) 1,4-Dioxane	0.000	88	0	N.D. d	

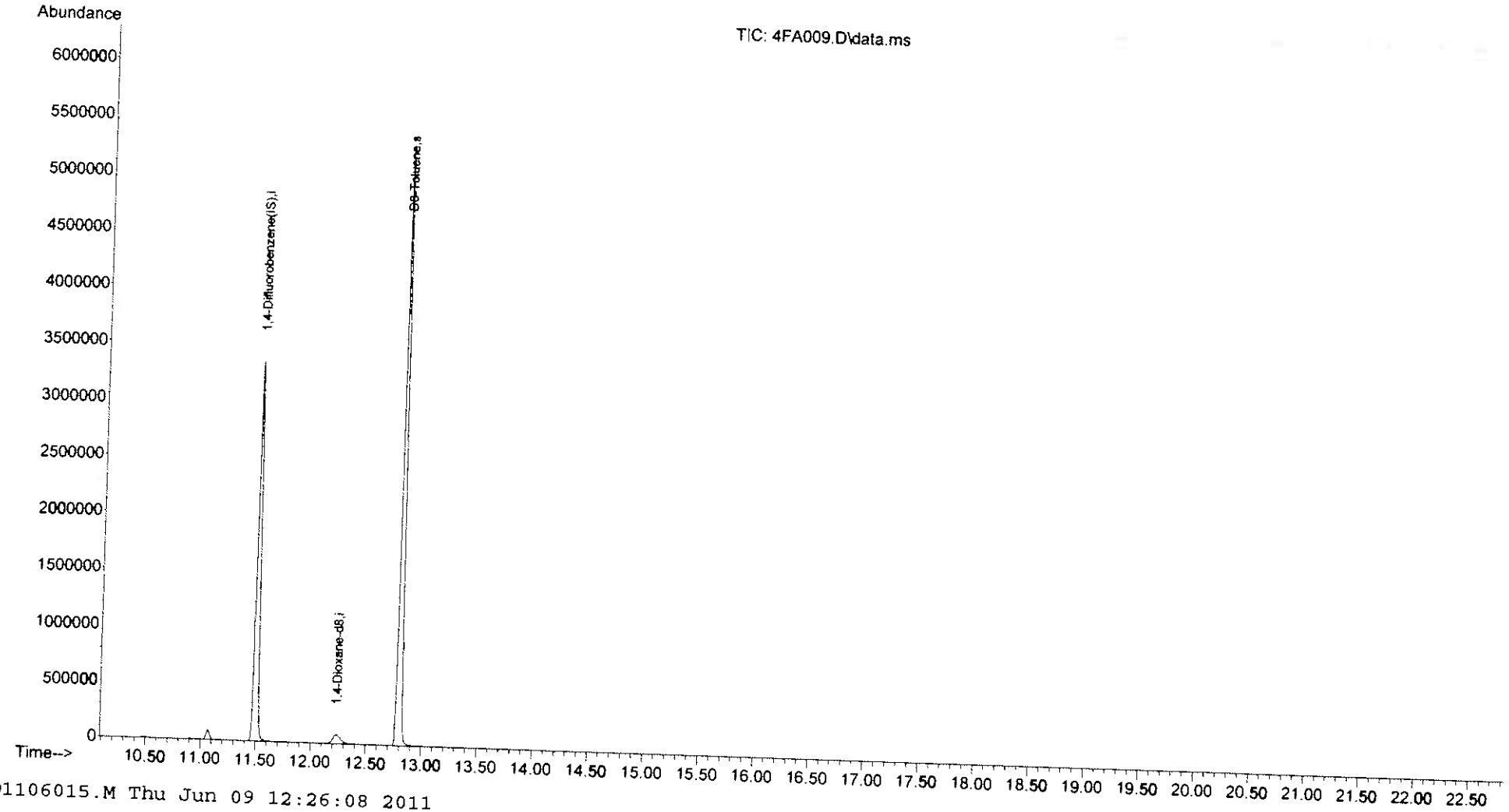
(#) = qualifier out of range (m) = manual integration (+) = signals summed

KD 060911

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\DATA\060611\
Data File : 4FA009.D
Acq On : 7 Jun 2011 15:52
Operator : kat
Sample : blk
Misc :
ALS Vial : 9 Sample Multiplier: 1
InstName : OVGCMS4

Quant Time: Jun 09 12:26:01 2011
Quant Method : C:\msdchem\1\METHODS\METHODS\D1106015.M
Quant Title : ENCO SOPVGCMS/10;element cal 1106015
QLast Update : Tue Jun 07 12:11:55 2011
Response via : Initial Calibration



Quantitation Report (Not Reviewed)

Data Path : C:\msdchem\1\DATA\060611\
Data File : 4FA010.D
Acq On : 7 Jun 2011 16:25
Operator : kat
Sample : SCV 25ppb
Misc :
ALS Vial : 10 Sample Multiplier: 1
InstName : OVGCMS4

Quant Time: Jun 09 12:27:24 2011
Quant Method : C:\msdchem\1\METHODS\METHODS\D1106015.M
Quant Title : ENCO SOPVGCMS/10;element cal 1106015
QLast Update : Tue Jun 07 12:11:55 2011
Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc Units	Dev(Min)
1) 1,4-Difluorobenzene(IS)	11.497	114	5382604	5.000 ug/L	0.00
4) 1,4-Dioxane-d8	12.252	64	223770	50.000 ug/l	0.00
System Monitoring Compounds					
2) D8-Toluene	12.794	98	5696940	5.056 ug/L	0.00
Spiked Amount 5.000			Recovery	= 101.120%	
Target Compounds					Qvalue
3) D8-Toluene	12.794	98	5696940	5.056 ug/L	98
5) 1,4-Dioxane	12.281	88	185832	25.705 ug/l #	66

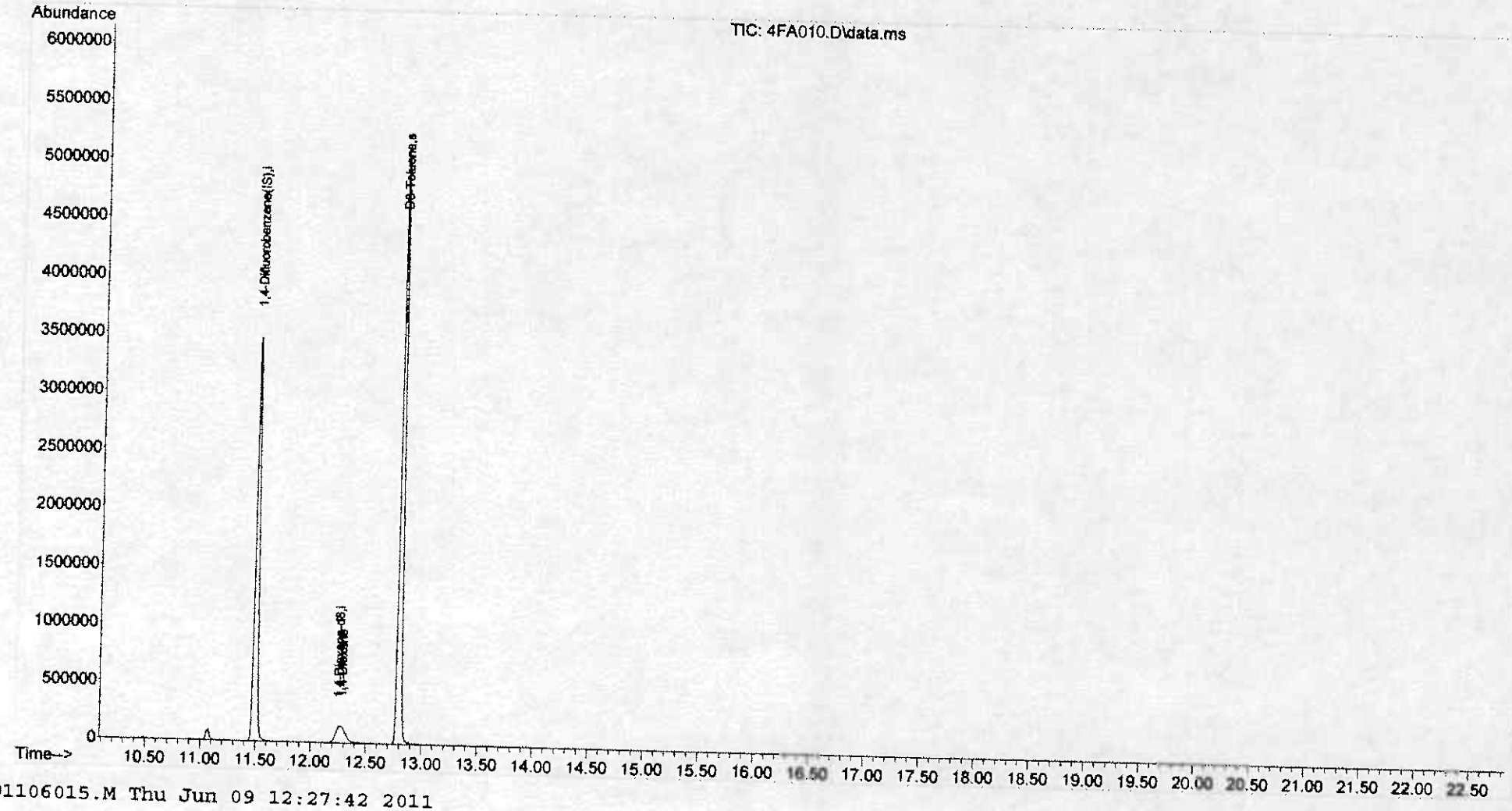
(#) = qualifier out of range (m) = manual integration (+) = signals summed

KTD60911.

Quantitation Report (Not Reviewed)

Data Path : C:\msdchem\1\DATA\060611\
Data File : 4FA010.D
Acq On : 7 Jun 2011 16:25
Operator : kat
Sample : SCV 25ppb
Misc :
ALS Vial : 10 Sample Multiplier: 1
InstName : OVGCMS4

Quant Time: Jun 09 12:27:24 2011
Quant Method : C:\msdchem\1\METHODS\METHODS\D1106015.M
Quant Title : ENCO SOPVGCMS/10;element cal 1106015
QLast Update : Tue Jun 07 12:11:55 2011
Response via : Initial Calibration



Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\DATA\100311\
Data File : 4j3004.D
Acq On : 3 Oct 2011 15:01
Operator : kat
Sample : 1j03019-bs1
Misc :
ALS Vial : 4 Sample Multiplier: 1
InstName : OVGCMS4

Quant Time: Oct 03 15:42:56 2011
Quant Method : C:\msdchem\1\METHODS\METHODS\D1106015.M
Quant Title : ENCO SOPVGCMS/10;element cal 1106015
QLast Update : Mon Jun 13 12:21:39 2011
Response via : Initial Calibration

VG 10-3-11

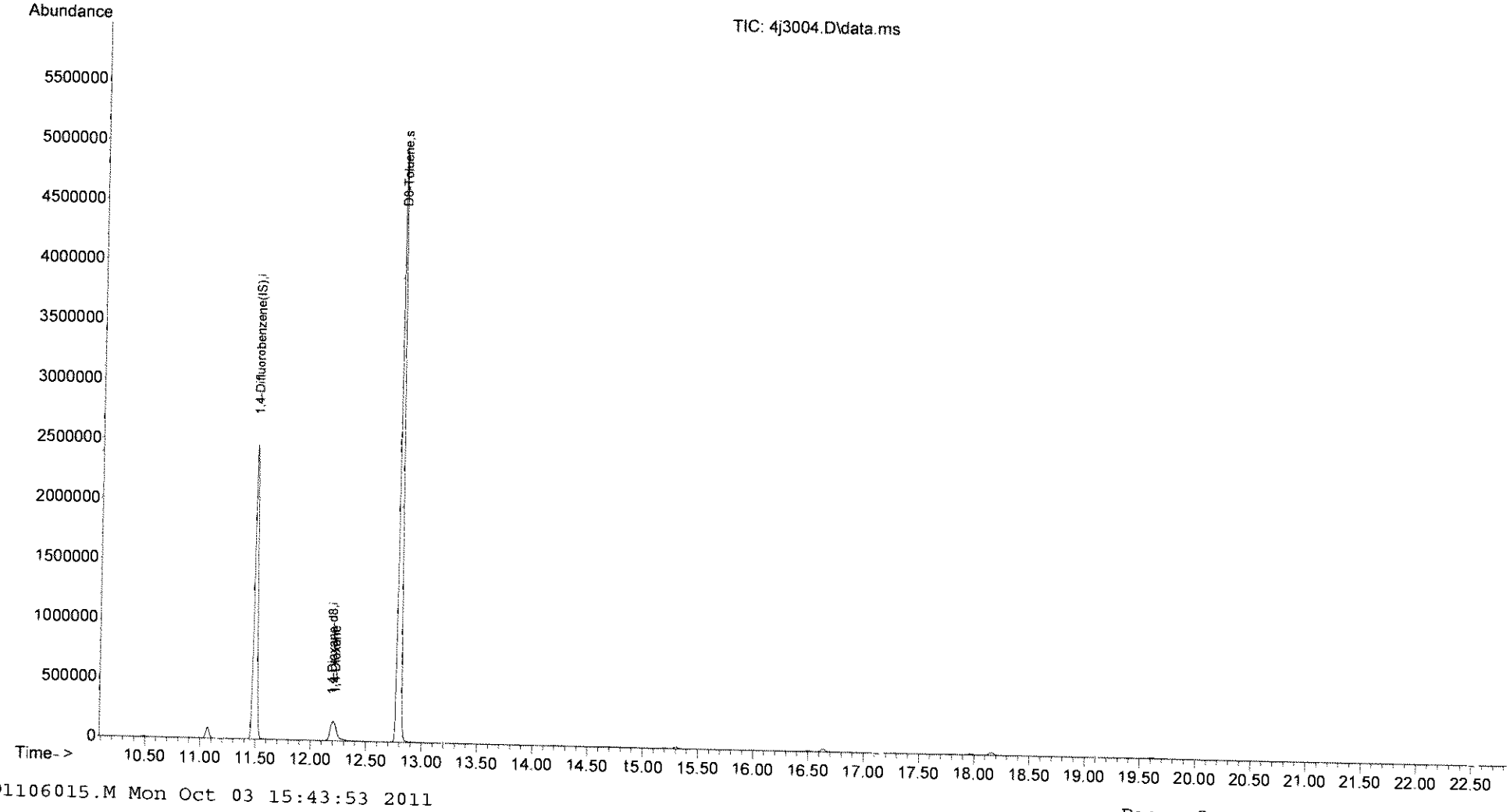
Internal Standards	R.T.	QIon	Response	Conc Units	Dev(Min)
1) 1,4-Difluorobenzene(IS)	11.498	114	4362897m	5.000 ug/L	0.00
4) 1,4-Dioxane-d8	12.190	64	159900	50.000 ug/l	-0.06
System Monitoring Compounds					
2) D8-Toluene	12.797	98	5431006	5.946 ug/L	0.00
Spiked Amount 5.000	Range 79 - 127		Recovery	= 118.920%	
Target Compounds					Qvalue
3) D8-Toluene	12.797	98	5431006	5.946 ug/L	94
5) 1,4-Dioxane	12.218	88	138936	26.895 ug/l #	80

(#) = qualifier out of range (m) = manual integration (+) = signals summed

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\DATA\100311\
Data File : 4j3004.D
Acq On : 3 Oct 2011 15:01
Operator : kat
Sample : 1j03019-bs1
Misc :
ALS Vial : 4 Sample Multiplier: 1
InstName : OVGCMS4

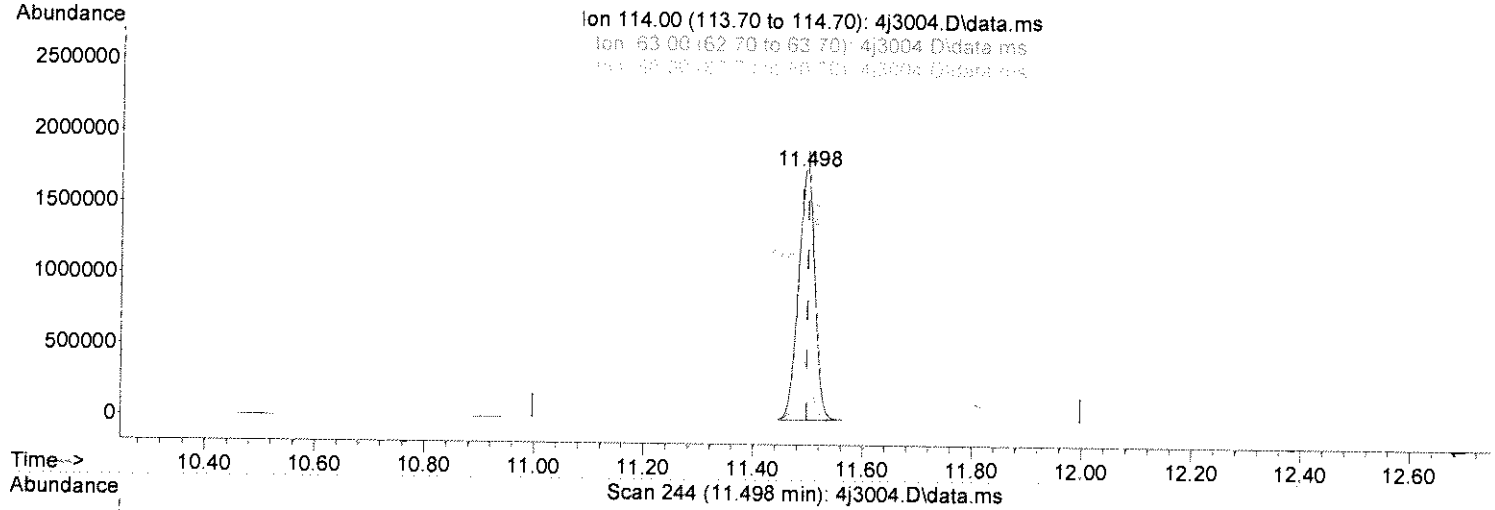
Quant Time: Oct 03 15:42:56 2011
Quant Method : C:\msdchem\1\METHODS\METHODS\D1106015.M
Quant Title : ENCO SOPVGCMS/10;element cal 1106015
QLast Update : Mon Jun 13 12:21:39 2011
Response via : Initial Calibration

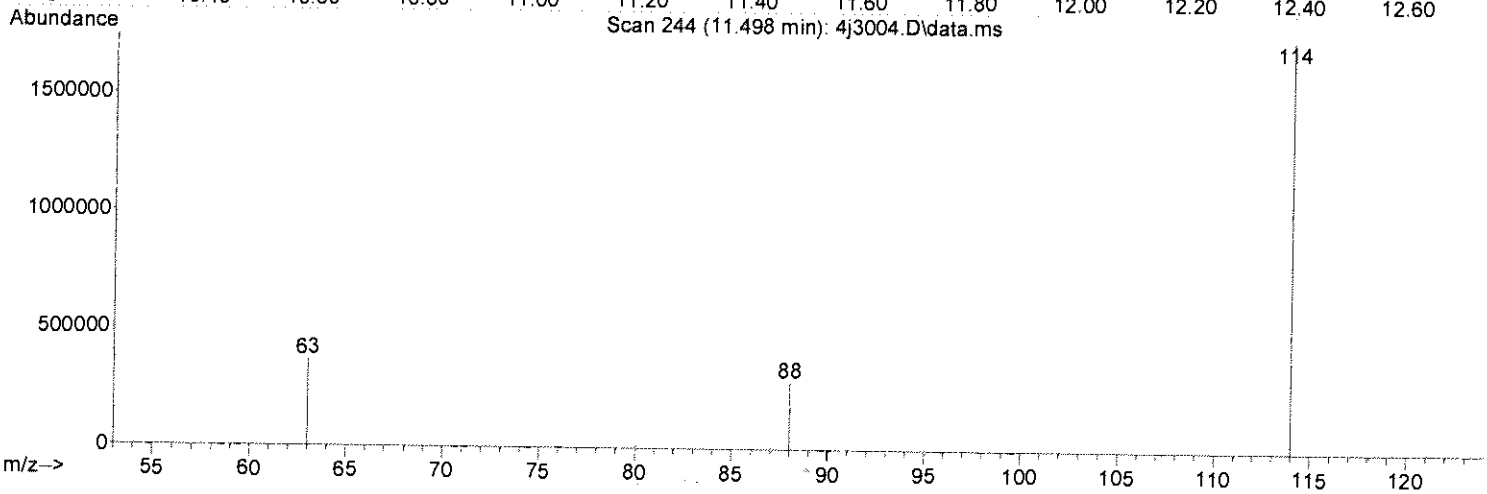


Quantitation Report (Qedit)

Data Path : C:\msdchem\1\DATA\100311\
Data File : 4j3004.D
Acq On : 3 Oct 2011 15:01
Operator : kat
Sample : 1j03019-bs1
Misc :
ALS Vial : 4 Sample Multiplier: 1
InstName : OVGCMS4

Quant Time: Oct 03 15:42:23 2011
Quant Method : C:\msdchem\1\METHODS\METHODS\D1106015.M
Quant Title : ENCO SOPVGCMS/10;element cal 1106015
QLast Update : Mon Jun 13 12:21:39 2011
Response via : Initial Calibration





TIC: 4j3004.D\data.ms

(1) 1,4-Difluorobenzene(IS) (i)

11.498min (+0.000) 5.00ug/L

response 3700354

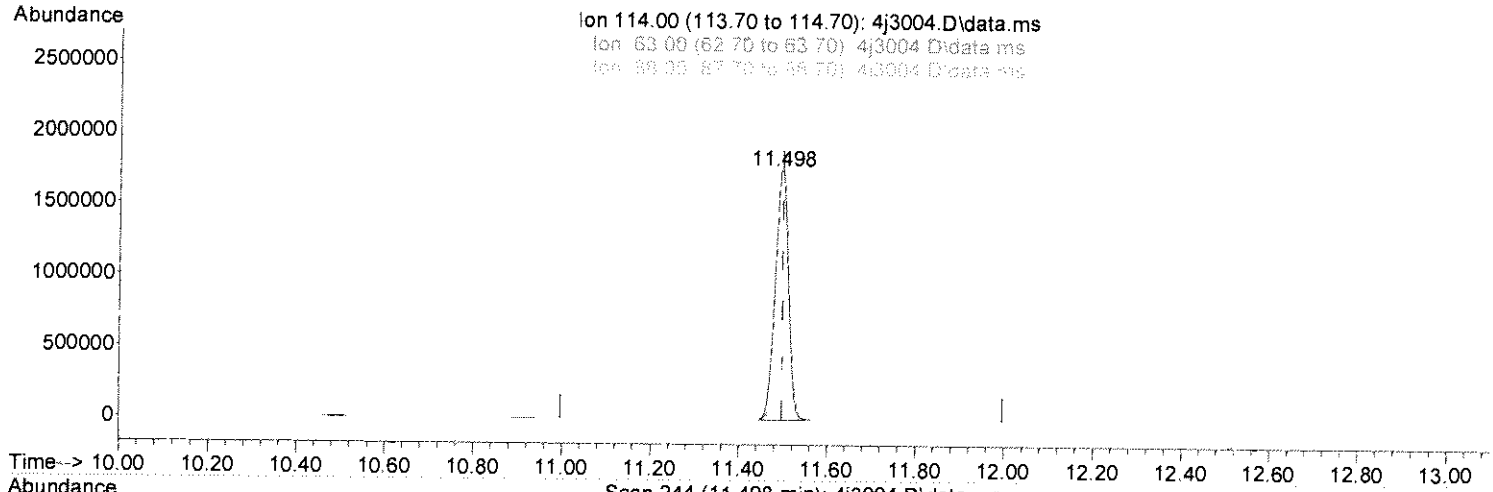
Ion	Exp%	Act%
114.00	100	100
63.00	22.60	23.08
88.00	19.00	16.80
0.00	0.00	0.00

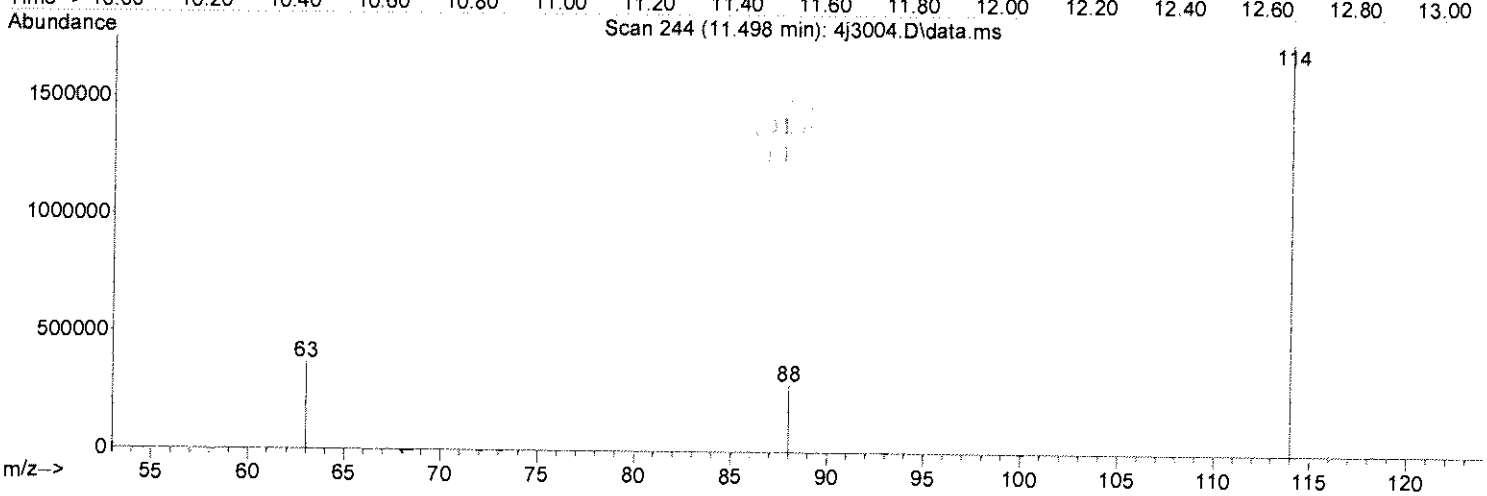
Select one:
[✓] Original integration [ ] Manual integration
Select reason for manual integration:
[ ] Poor integration (peak tailing, baseline selection)
[ ] Incorrect peak selection/Peak not found
[ ] Hump integration
[ ] Baseline drop for split peaks
[ ] ISTD reintegration
[ ] Other:
Review by/Date: 10/3/11
Review by/Date: KDW 10-4-11

Quantitation Report (Qedit)

Data Path : C:\msdchem\1\DATA\100311\
Data File : 4j3004.D
Acq On : 3 Oct 2011 15:01
Operator : kat
Sample : 1j03019-bs1
Misc :
ALS Vial : 4 Sample Multiplier: 1
InstName : OVGCMS4

Quant Time: Oct 03 15:42:41 2011
Quant Method : C:\msdchem\1\METHODS\METHODS\D1106015.M
Quant Title : ENCO SOPVGCMS/10;element cal 1106015
QLast Update : Mon Jun 13 12:21:39 2011
Response via : Initial Calibration





TIC: 4j3004.D\data.ms

(1) 1,4-Difluorobenzene(IS) (i)

11.498min (+0.000) 5.00ug/L m

response 4362897

Ion	Exp%	Act%
114.00	100	100
63.00	22.60	19.58
88.00	19.00	14.25
0.00	0.00	0.00

Select one:
[ ] Original integration [✓] Manual integration
Select reason for manual integration:
[ ] Poor integration (peak tailing, baseline selection)
[ ] Incorrect peak selection/Peak not found
[ ] Hump integration
[✓] Baseline drop for split peaks
[ ] RSTD reintegration
[ ] Other:
Review by/Date: VS 10-3-11
Review by/Date: KDW 10-4-11

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\DATA\100311\
Data File : 4j3005.D
Acq On : 3 Oct 2011 15:35
Operator : kat
Sample : 1j03019-blk1
Misc :
ALS Vial : 5 Sample Multiplier: 1
InstName : OVGCMS4

Quant Time: Oct 03 15:59:30 2011
Quant Method : C:\msdchem\1\METHODS\METHODS\D1106015.M
Quant Title : ENCO SOPVGCMS/10;element cal 1106015
QLast Update : Mon Jun 13 12:21:39 2011
Response via : Initial Calibration

VG 10.3.11

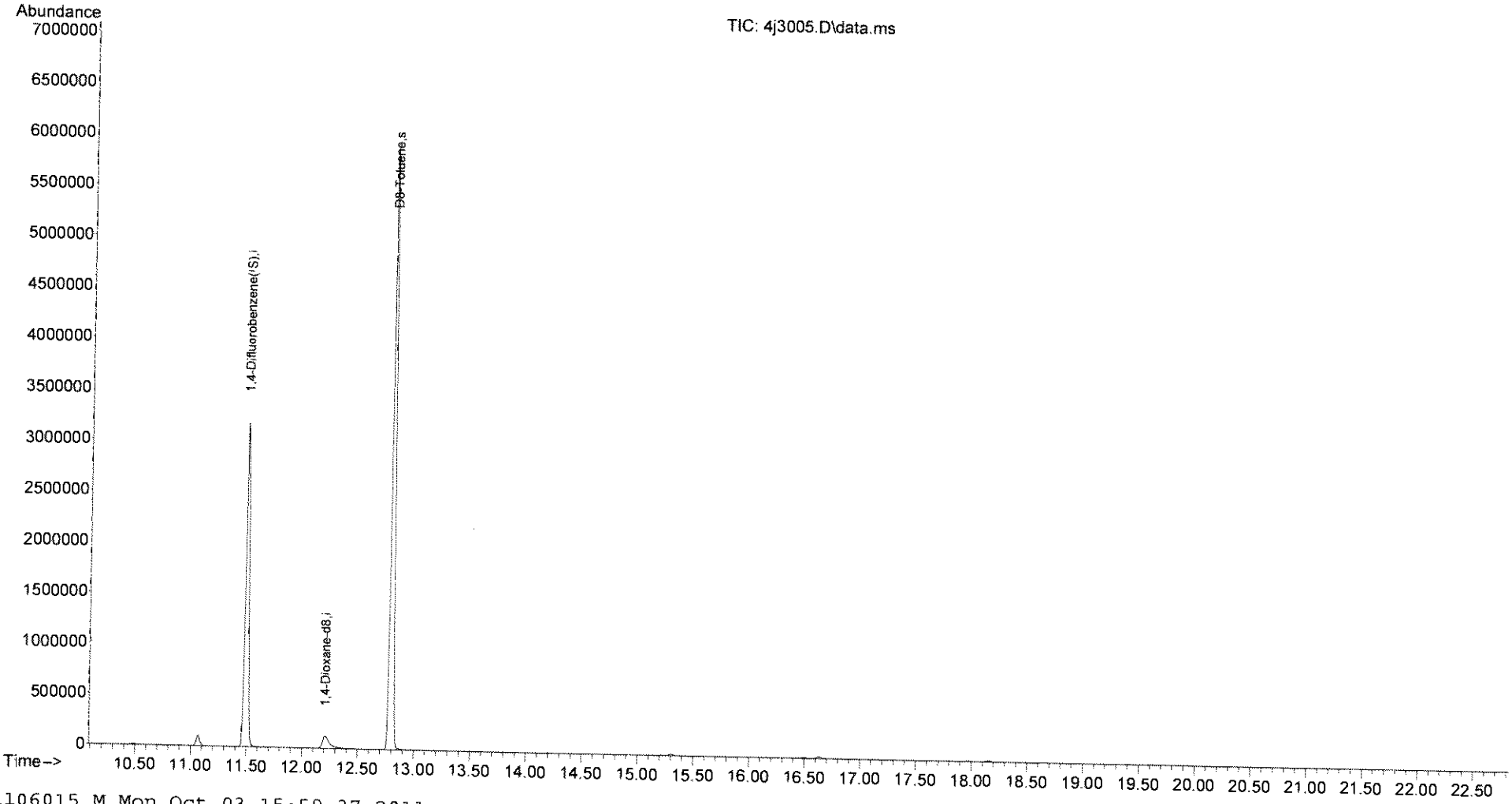
Internal Standards	R.T.	QIon	Response	Conc Units	Dev(Min)
1) 1,4-Difluorobenzene(IS)	11.498	114	5922252m	5.000 ug/L	0.00
4) 1,4-Dioxane-d8	12.204	64	206665	50.000 ug/l	-0.05
System Monitoring Compounds					
2) D8-Toluene	12.797	98	6420528	5.179 ug/L	0.00
Spiked Amount 5.000	Range 79 - 127		Recovery	= 103.580%	
Target Compounds					Qvalue
3) D8-Toluene	12.797	98	6420528	5.179 ug/L	95
5) 1,4-Dioxane	0.000	88	0	N.D. d	

(#) = qualifier out of range (m) = manual integration (+) = signals summed

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\DATA\100311\
Data File : 4j3005.D
Acq On : 3 Oct 2011 15:35
Operator : kat
Sample : 1j03019-blk1
Misc :
ALS Vial : 5 Sample Multiplier: 1
InstName : OVGCMS4

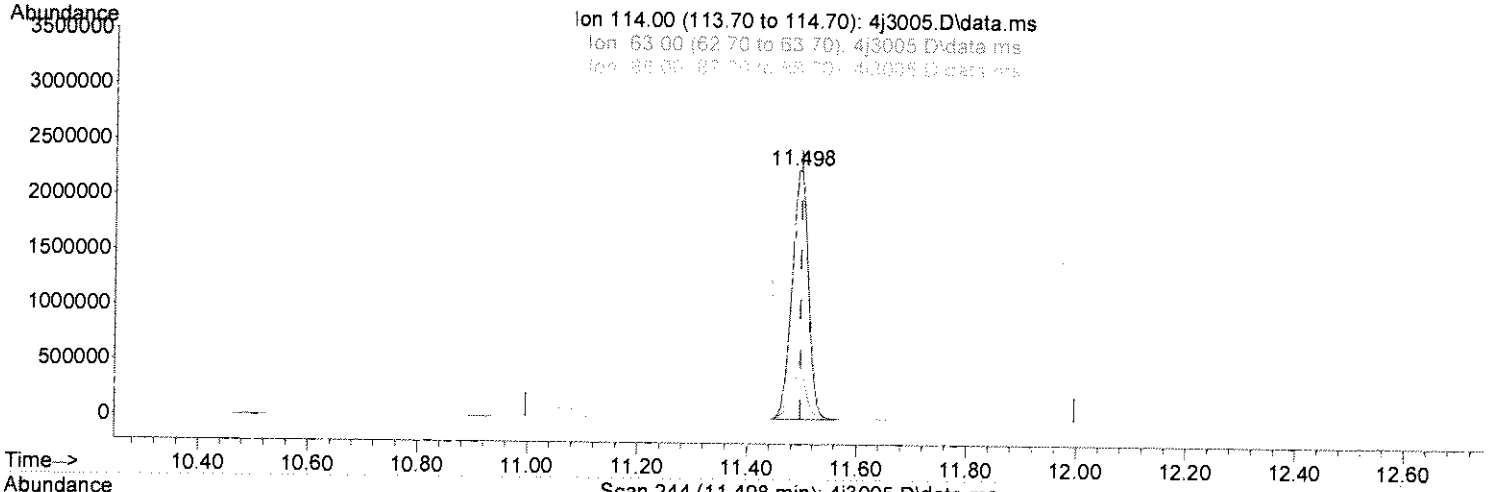
Quant Time: Oct 03 15:59:30 2011
Quant Method : C:\msdchem\1\METHODS\METHODS\D1106015.M
Quant Title : ENCO SOPVGCMS/10;element cal 1106015
QLast Update : Mon Jun 13 12:21:39 2011
Response via : Initial Calibration

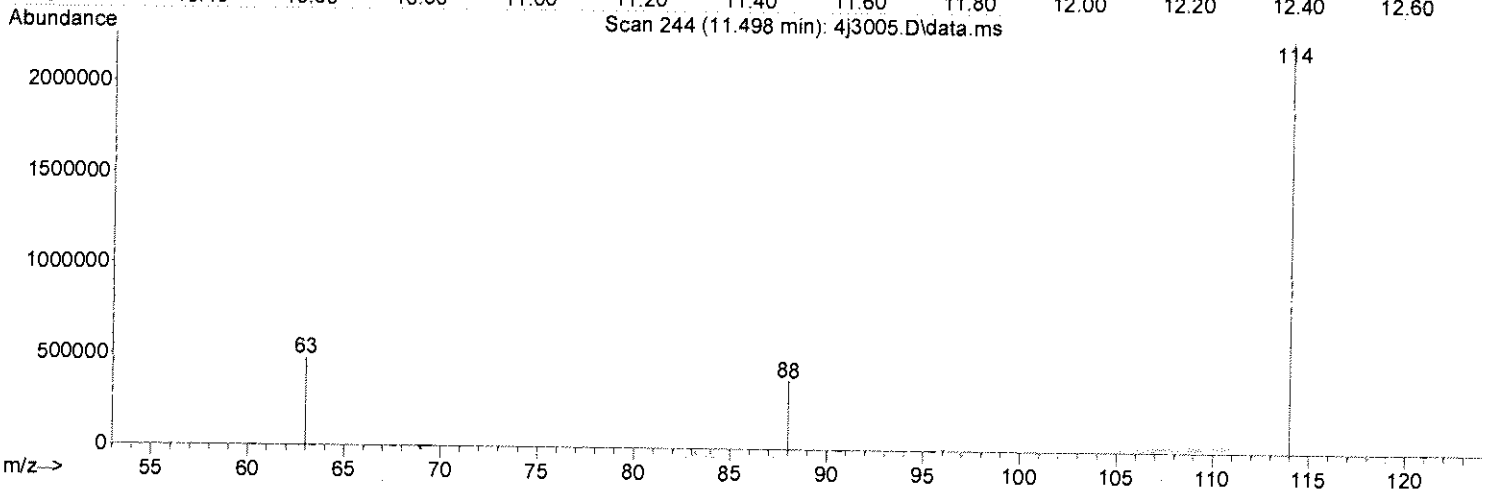


Quantitation Report (Qedit)

Data Path : C:\msdchem\1\DATA\100311\
Data File : 4j3005.D
Acq On : 3 Oct 2011 15:35
Operator : kat
Sample : 1j03019-blk1
Misc :
ALS Vial : 5 Sample Multiplier: 1
InstName : OVGCMS4

Quant Time: Oct 03 15:59:00 2011
Quant Method : C:\msdchem\1\METHODS\METHODS\D1106015.M
Quant Title : ENCO SOPVGCMS/10;element cal 1106015
QLast Update : Mon Jun 13 12:21:39 2011
Response via : Initial Calibration





TIC: 4j3005.D\data.ms

(1) 1,4-Difluorobenzene(IS) (i)

11.498min (+0.000) 5.00ug/L

response 4791440

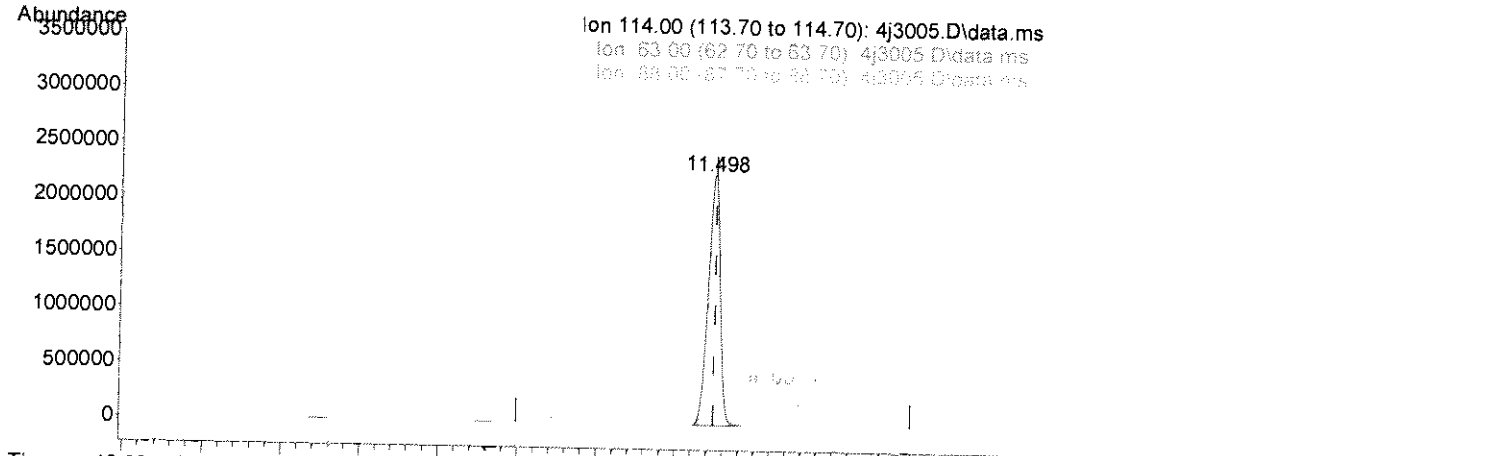
Ion	Exp%	Act%
114.00	100	100
63.00	22.60	23.08
88.00	19.00	16.83
0.00	0.00	0.00

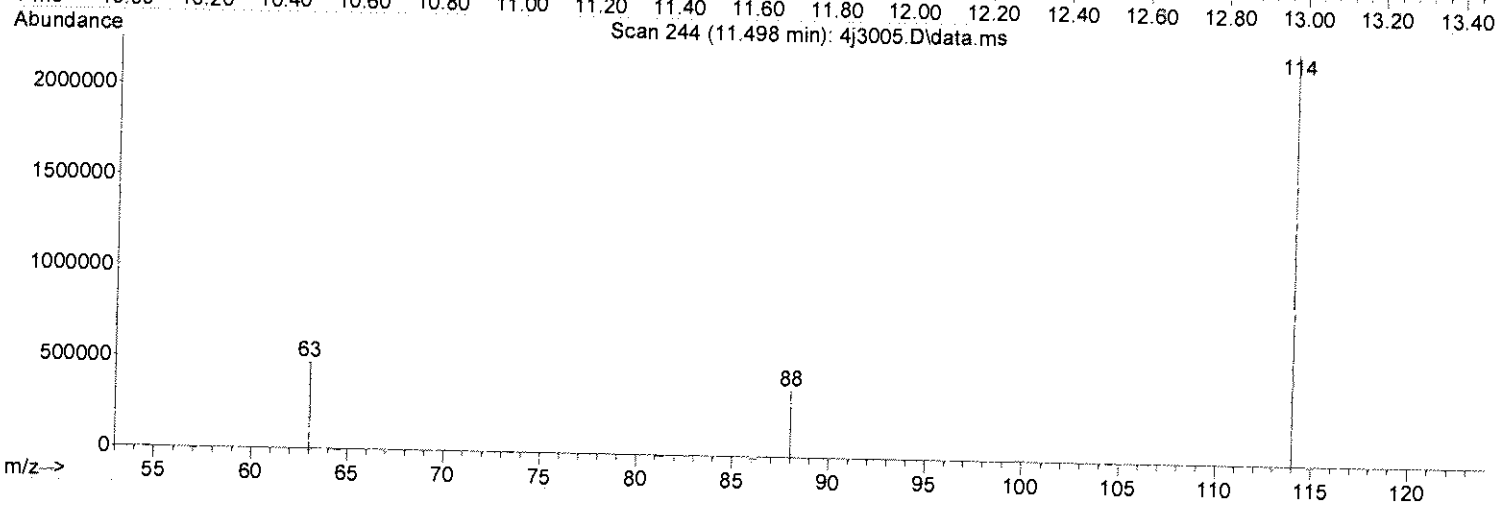
Select one:
[✓] Original integration [ ] Manual integration
Select reason for manual integration:
[ ] Poor integration (peak tailing, baseline selection)
[ ] Incorrect peak selection/Peak not found
[ ] Hump integration
[ ] Baseline drop for split peaks
[ ] ISTD reintegration
[ ] Other:
Review by/Date: LG 10-03-11
Review by/Date: KDW 10-4-11

Quantitation Report (Qedit)

Data Path : C:\msdchem\1\DATA\100311\
Data File : 4j3005.D
Acq On : 3 Oct 2011 15:35
Operator : kat
Sample : 1j03019-blk1
Misc :
ALS Vial : 5 Sample Multiplier: 1
InstName : OVGCMS4

Quant Time: Oct 03 15:59:00 2011
Quant Method : C:\msdchem\1\METHODS\METHODS\D1106015.M
Quant Title : ENCO SOPVGCMS/10;element cal 1106015
QLast Update : Mon Jun 13 12:21:39 2011
Response via : Initial Calibration





TIC: 4j3005.D\data.ms

(1) 1,4-Difluorobenzene(IS) (i)

11.498min (+0.000) 5.00ug/L m

response 5922252

Ion	Exp%	Act%
114.00	100	100
63.00	22.60	18.67
88.00	19.00	13.62
0.00	0.00	0.00

Select one:
[ ] Original integration [✓] Manual integration
Select reason for manual integration:
[ ] Poor integration (peak tailing, baseline selection)
[ ] Incorrect peak selection/Peak not found
[ ] Hump integration
[✓] Baseline drop for split peaks
[ ] ISTD reintegration
[ ] Other:
Review by/Date: KAT 10.03.11
Review by/Date: KDW 10-4-11

D1106015.M Mon Oct 03 15:59:26 2011

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\DATA\100311\
Data File : 4j3006.D
Acq On : 3 Oct 2011 16:10
Operator : kat
Sample : 1j03019-ms1
Misc :
ALS Vial : 6 Sample Multiplier: 1
InstName : OVGCMS4

Quant Time: Oct 04 09:18:47 2011
Quant Method : C:\msdchem\1\METHODS\METHODS\D1106015.M
Quant Title : ENCO SOPVGCMS/10;element cal 1106015
QLast Update : Mon Jun 13 12:21:39 2011
Response via : Initial Calibration

KDW
10-4-11

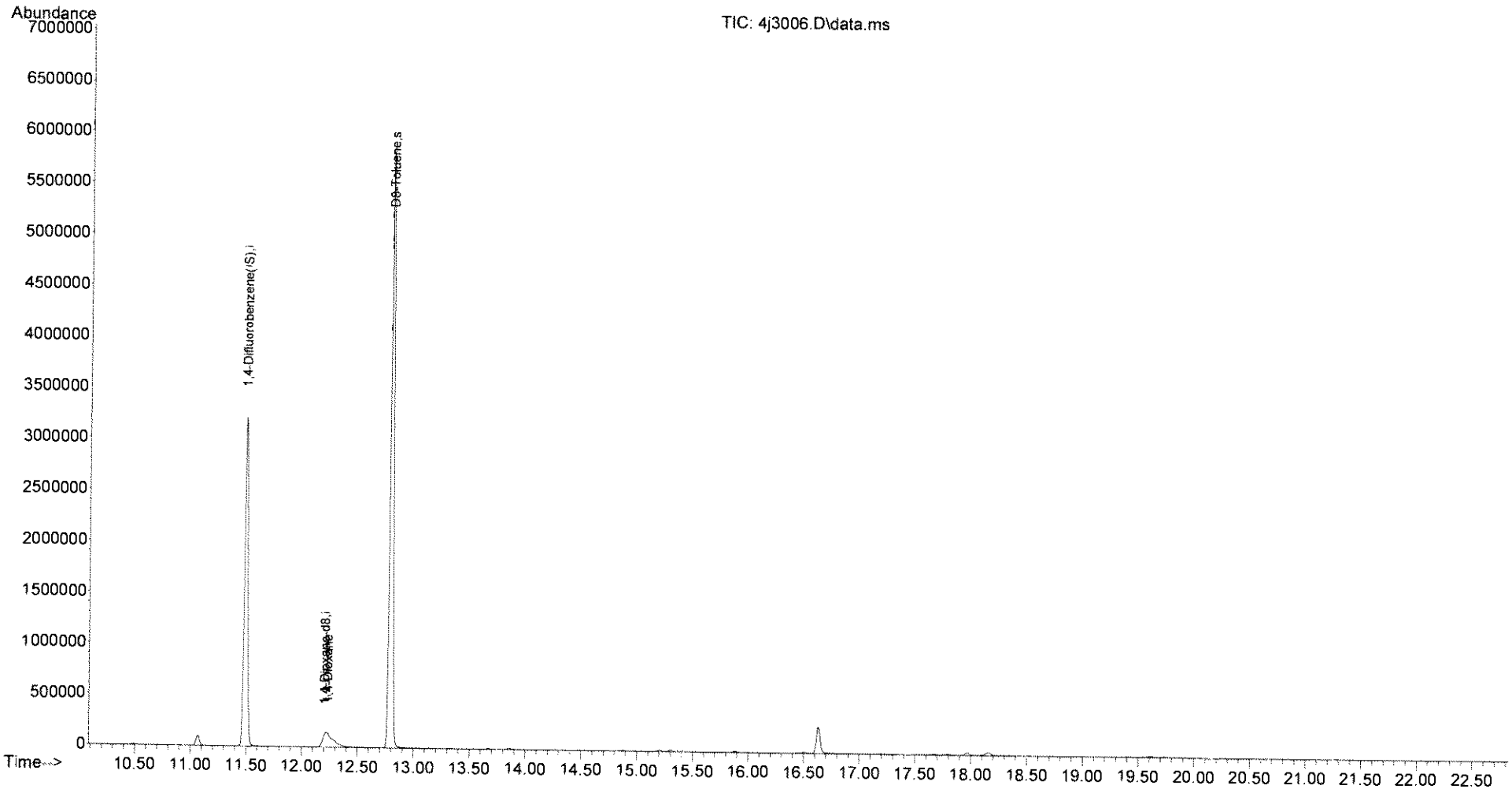
Internal Standards	R.T.	QIon	Response	Conc Units	Dev(Min)
1) 1,4-Difluorobenzene(IS)	11.498	114	5580845m	5.000 ug/L	0.00
4) 1,4-Dioxane-d8	12.204	64	224905	50.000 ug/l	-0.05
System Monitoring Compounds					
2) D8-Toluene	12.797	98	6423653	5.498 ug/L	0.00
Spiked Amount 5.000	Range 79 - 127		Recovery	= 109.960%	
Target Compounds					Qvalue
3) D8-Toluene	12.797	98	6423653	5.498 ug/L	95
5) 1,4-Dioxane	12.233	88	176209	24.251 ug/l	89

(#) = qualifier out of range (m) = manual integration (+) = signals summed

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\DATA\100311\
Data File : 4j3006.D
Acq On : 3 Oct 2011 16:10
Operator : kat
Sample : 1j03019-ms1
Misc :
ALS Vial : 6 Sample Multiplier: 1
InstName : OVGCMS4

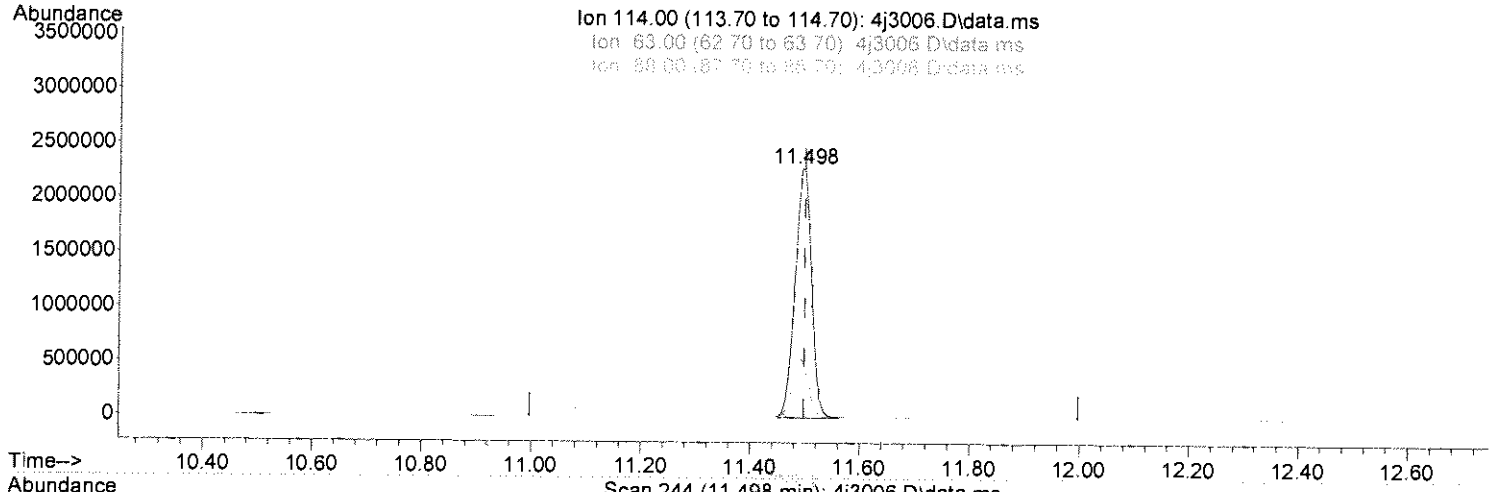
Quant Time: Oct 04 09:18:47 2011
Quant Method : C:\msdchem\1\METHODS\METHODS\D1106015.M
Quant Title : ENCO SOPVGCMS/10;element cal 1106015
QLast Update : Mon Jun 13 12:21:39 2011
Response via : Initial Calibration

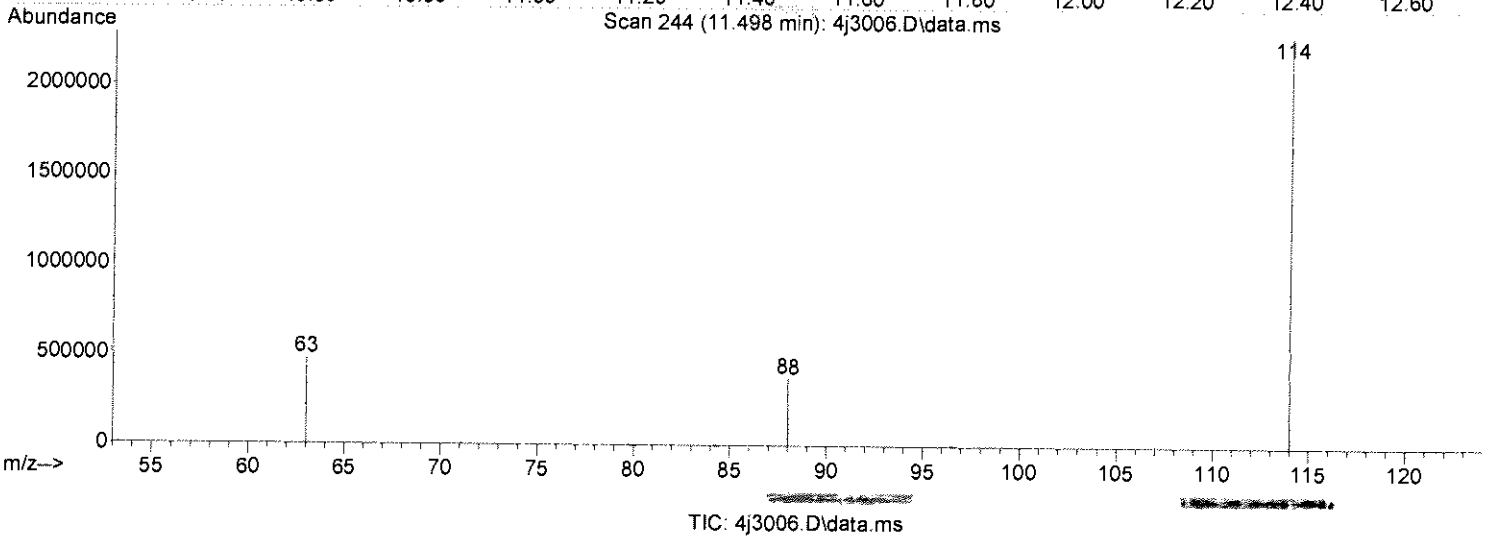


Quantitation Report (Qedit)

Data Path : C:\msdchem\1\DATA\100311\
Data File : 4j3006.D
Acq On : 3 Oct 2011 16:10
Operator : kat
Sample : 1j03019-ms1
Misc :
ALS Vial : 6 Sample Multiplier: 1
InstName : OVGCMS4

Quant Time: Oct 04 09:18:13 2011
Quant Method : C:\msdchem\1\METHODS\METHODS\D1106015.M
Quant Title : ENCO SOPVGCMS/10;element cal 1106015
QLast Update : Mon Jun 13 12:21:39 2011
Response via : Initial Calibration





(1) 1,4-Difluorobenzene(IS) (i)

11.498min (+0.000) 5.00ug/L

response 4826267

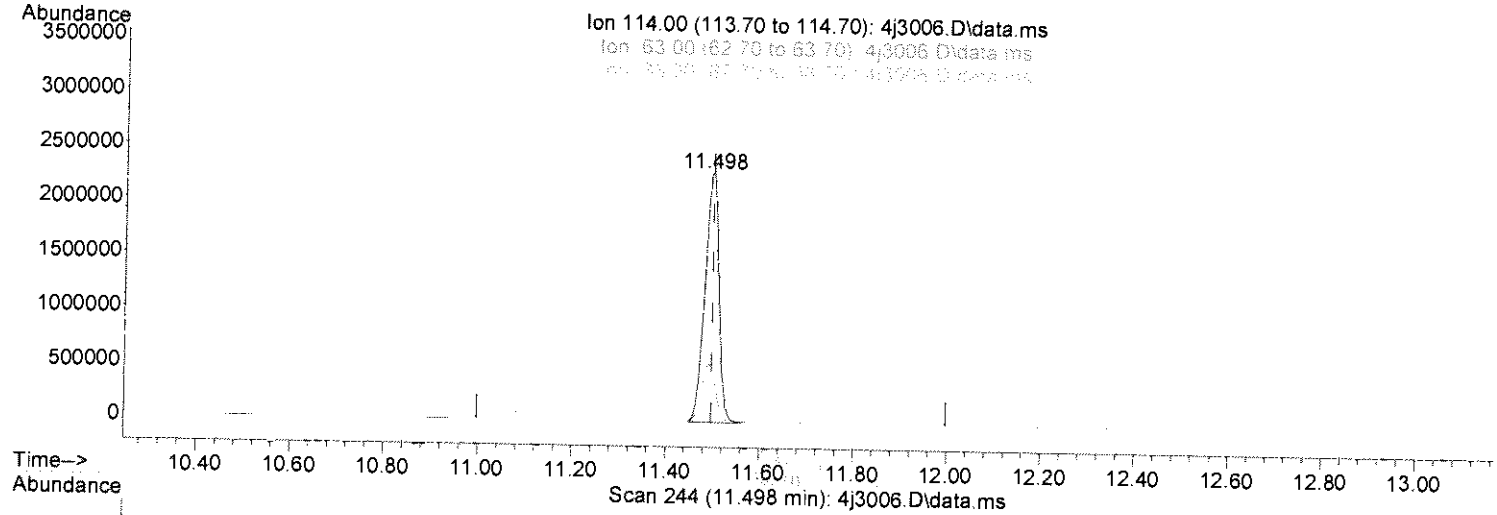
Ion	Exp%	Act%
114.00	100	100
63.00	22.60	22.98
88.00	19.00	16.86
0.00	0.00	0.00

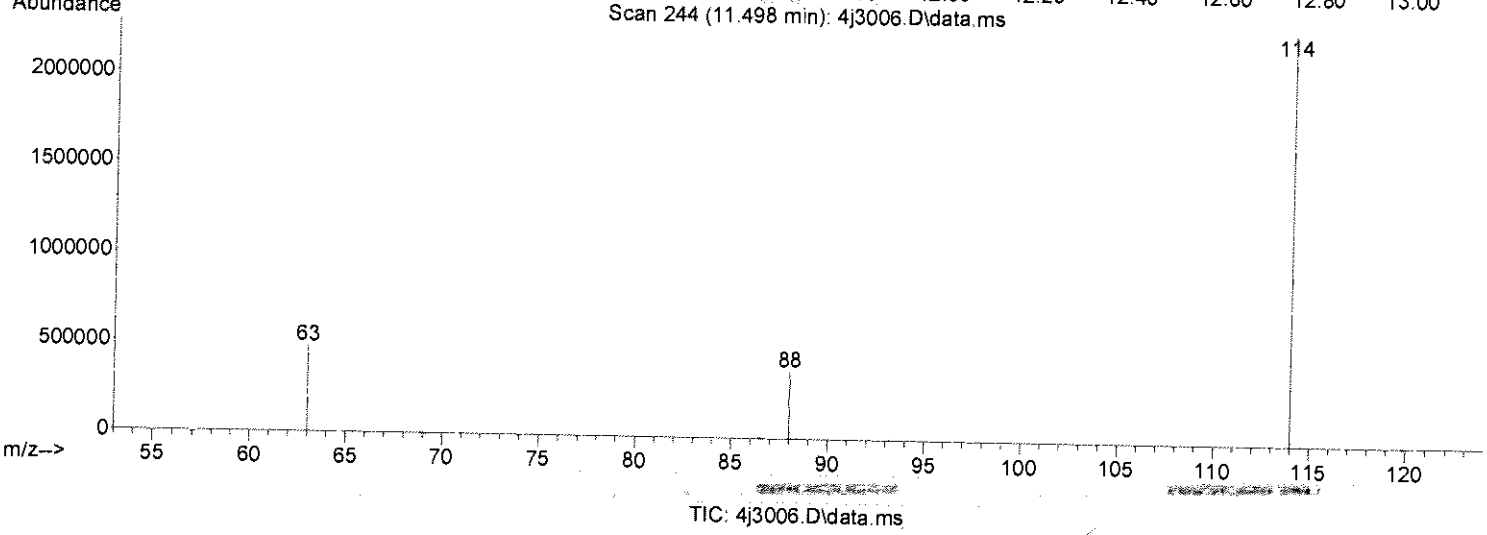
Select one:
[✓] Original integration [ ] Manual integration
Select reason for manual integration:
[ ] Poor integration (peak tailing, baseline selection)
[ ] Incorrect peak selection/Peak not found
[ ] Hump integration
[ ] Baseline drop for split peaks
[ ] ISTD reintegration
[ ] Other:
Review by/Date: KDW 10-4-11
Review by/Date: KAT 10-4-11

Quantitation Report (Qedit)

Data Path : C:\msdchem\1\DATA\100311\
Data File : 4j3006.D
Acq On : 3 Oct 2011 16:10
Operator : kat
Sample : 1j03019-ms1
Misc :
ALS Vial : 6 Sample Multiplier: 1
InstName : OVGCMS4

Quant Time: Oct 04 09:18:13 2011
Quant Method : C:\msdchem\1\METHODS\METHODS\D1106015.M
Quant Title : ENCO SOPVGCMS/10;element cal 1106015
QLast Update : Mon Jun 13 12:21:39 2011
Response via : Initial Calibration





TIC: 4j3006.D\data.ms

(1) 1,4-Difluorobenzene(IS) (i)

11.498min (+0.000) 5.00ug/L m

response 5580845

Ion	Exp%	Act%
114.00	100	100
63.00	22.60	19.88
88.00	19.00	14.58
0.00	0.00	0.00

Select one:
[ ] Original integration [✓] Manual integration
Select reason for manual integration:
[ ] Poor integration (peak tailing, baseline selection)
[ ] Incorrect peak selection/Peak not found
[ ] Hump integration
[ ] Baseline drop for split peaks
[✓] ISTD reintegration
[ ] Other:
Review by/Date: KDW 10-4-11
Review by/Date: KAT 10-4-11

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\DATA\100311\
Data File : 4j3007.D
Acq On : 3 Oct 2011 16:44
Operator : kat
Sample : 1j03019-msd1
Misc :
ALS Vial : 7 Sample Multiplier: 1
InstName : OVGCMS4

Quant Time: Oct 04 09:19:24 2011
Quant Method : C:\msdchem\1\METHODS\METHODS\D1106015.M
Quant Title : ENCO SOPVGCMS/10;element cal 1106015
QLast Update : Mon Jun 13 12:21:39 2011
Response via : Initial Calibration

KDW 10-4-11

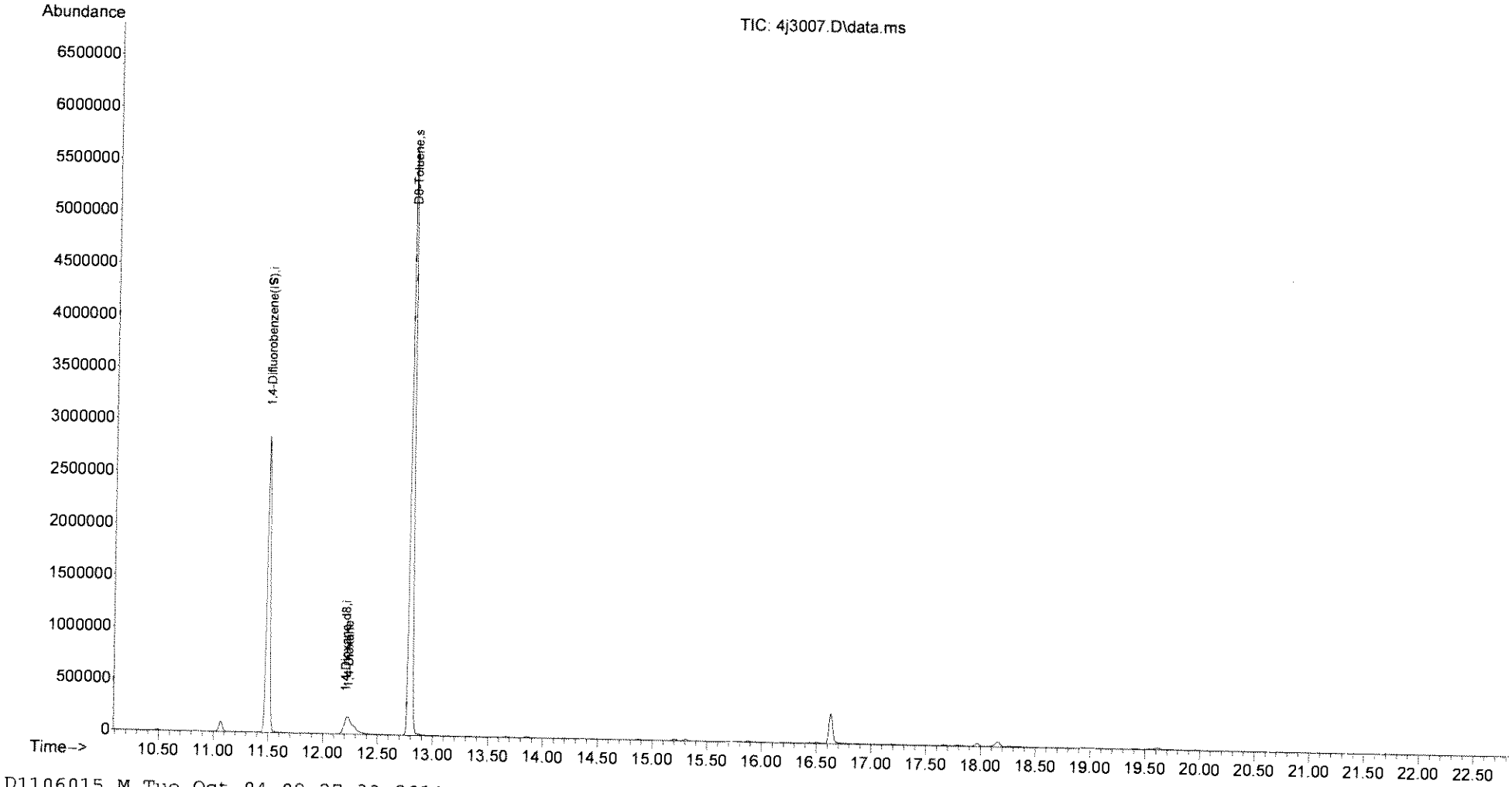
Internal Standards	R.T.	QIon	Response	Conc Units	Dev(Min)
1) 1,4-Difluorobenzene(IS)	11.498	114	5402114m	5.000 ug/L	0.00
4) 1,4-Dioxane-d8	12.204	64	231101	50.000 ug/l	-0.05
System Monitoring Compounds					
2) D8-Toluene	12.797	98	6556322	5.798 ug/L	0.00
Spiked Amount 5.000	Range 79 - 127		Recovery	= 115.960%	
Target Compounds					Qvalue
3) D8-Toluene	12.797	98	6556322	5.798 ug/L	91
5) 1,4-Dioxane	12.233	88	189534	25.386 ug/l	94

(#) = qualifier out of range (m) = manual integration (+) = signals summed

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\DATA\100311\
Data File : 4j3007.D
Acq On : 3 Oct 2011 16:44
Operator : kat
Sample : lj03019-msd1
Misc :
ALS Vial : 7 Sample Multiplier: 1
InstName : OVGCMS4

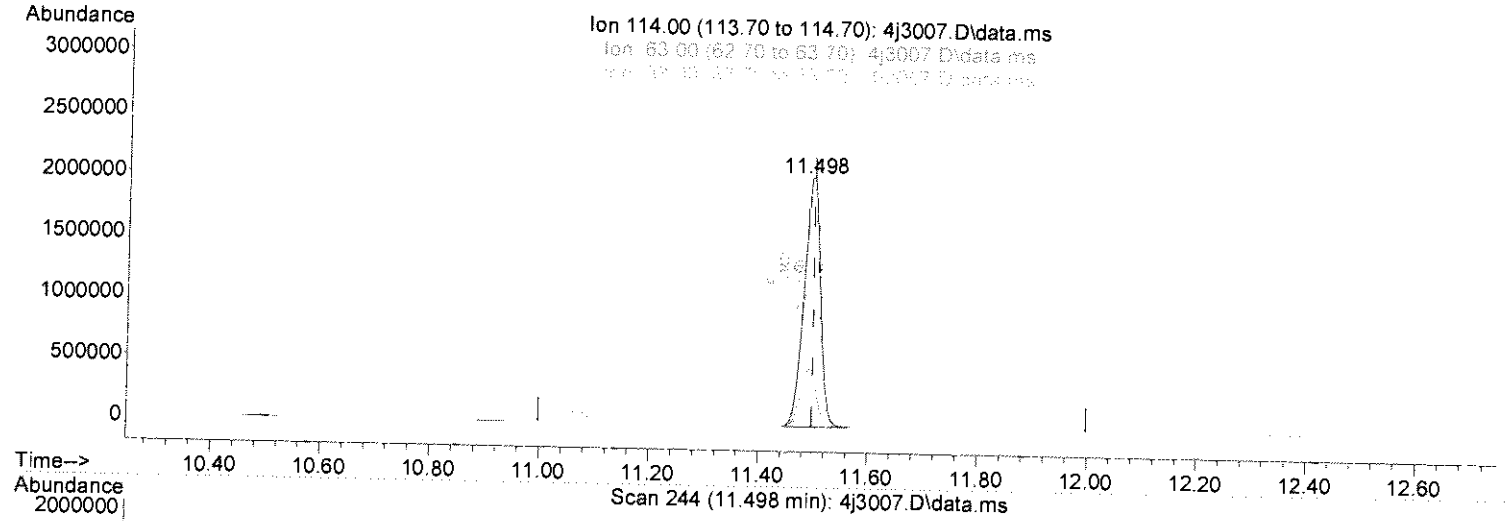
Quant Time: Oct 04 09:19:24 2011
Quant Method : C:\msdchem\1\METHODS\METHODS\D1106015.M
Quant Title : ENCO SOPVGCMS/10;element cal 1106015
QLast Update : Mon Jun 13 12:21:39 2011
Response via : Initial Calibration

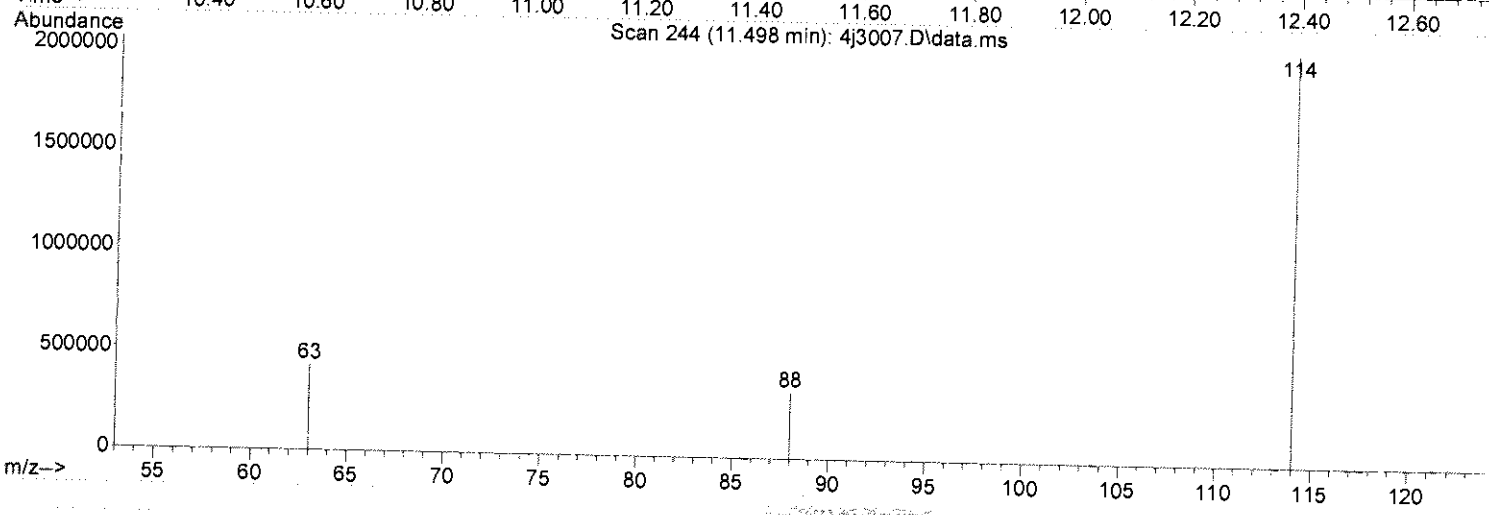


Quantitation Report (Qedit)

Data Path : C:\msdchem\1\DATA\100311\
Data File : 4j3007.D
Acq On : 3 Oct 2011 16:44
Operator : kat
Sample : 1j03019-msd1
Misc :
ALS Vial : 7 Sample Multiplier: 1
InstName : OVGCMS4

Quant Time: Oct 04 09:18:14 2011
Quant Method : C:\msdchem\1\METHODS\METHODS\D1106015.M
Quant Title : ENCO SOPVGCMS/10;element cal 1106015
QLast Update : Mon Jun 13 12:21:39 2011
Response via : Initial Calibration





TIC: 4j3007.D\data.ms

(1) 1,4-Difluorobenzene(IS) (i)

11.498min (+0.000) 5.00ug/L

response 4282112

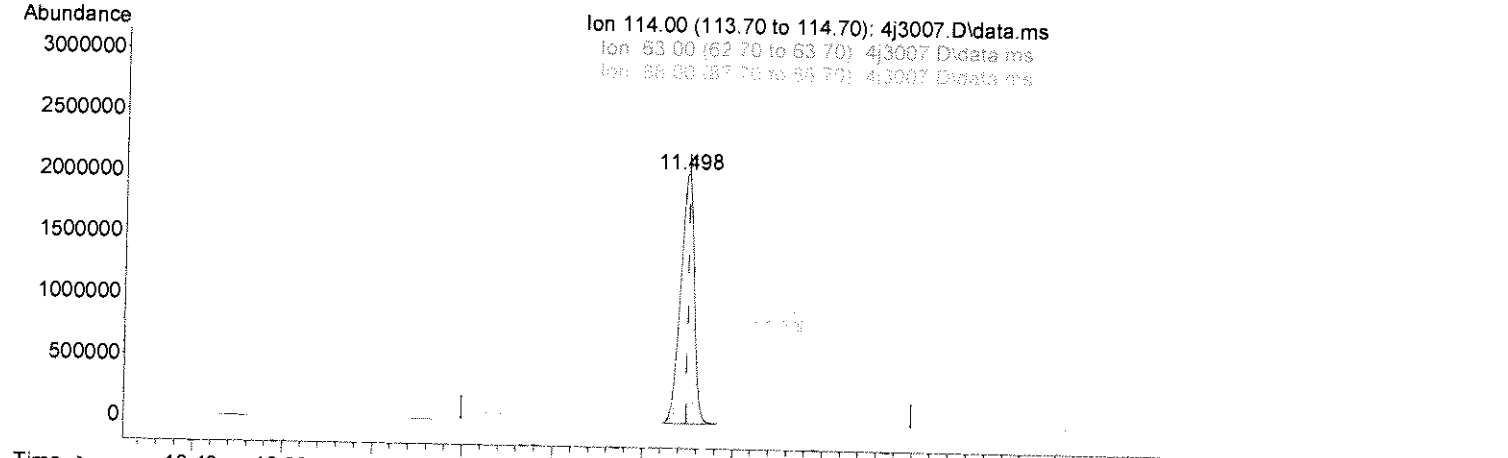
Ion	Exp%	Act%
114.00	100	100
63.00	22.60	22.91
88.00	19.00	16.79
0.00	0.00	0.00

Select one:
[✓] Original integration [ ] Manual integration
Select reason for manual integration:
[ ] Poor integration (peak tailing, baseline selection)
[ ] Incorrect peak selection/Peak not found
[ ] Hump integration
[ ] Baseline drop for split peaks
[ ] ISTD reintegration
[ ] Other:
Review by/Date: KDW 10-4-11
Review by/Date: KAT 10-4-11

Quantitation Report (Qedit)

Data Path : C:\msdchem\1\DATA\100311\
Data File : 4j3007.D
Acq On : 3 Oct 2011 16:44
Operator : kat
Sample : 1j03019-msd1
Misc :
ALS Vial : 7 Sample Multiplier: 1
InstName : OVGCMS4

Quant Time: Oct 04 09:18:14 2011
Quant Method : C:\msdchem\1\METHODS\METHODS\D1106015.M
Quant Title : ENCO SOPVGCMS/10;element cal 1106015
QLast Update : Mon Jun 13 12:21:39 2011
Response via : Initial Calibration



TIC: 4j3007.D\data.ms

(1) 1,4-Difluorobenzene(IS) (I)

11.498min (+0.000) 5.00ug/L m

response 5402114

Ion	Exp%	Act%
114.00	100	100
63.00	22.60	18.16
88.00	19.00	13.31
0.00	0.00	0.00

Select one:
[ ] Original integration [✓] Manual integration
Select reason for manual integration:
[ ] Poor integration (peak tailing, baseline selection)
[ ] Incorrect peak selection/Peak not found
[ ] Hump integration
[ ] Baseline drop for split peaks
[✓] ISTD reintegration
[ ] Other:
Review by/Date: KDW 10-4-11
Review by/Date: KAT 10-4-11

GC/MS QA-QC Check Report

Tune File : C:\msdchem\1\DATA\100311\4j3001.D
Tune Time : 3 Oct 2011 13:28

Daily Calibration File : C:\msdchem\1\DATA\060611\4FA005.D

KDW 10-4-11

File	Sample	Surrogate Recovery %	Internal Standard Responses	
			5553770	191008
4j3003.D	25 bbb cvs	115	4653579	176152
4j3004.D	1j03019-bs	119	4362897	159900
4j3005.D	1j03019-bl	104	5922252	206665
4j3006.D	1j03019-ms	110	5580845	224905
4j3007.D	1j03019-ms	116	5402114	231101
4j3008.D	a105207-01	115	5847174	265809
4j3009.D	a105206-01	116	6144970	249914
4j3010.D	a105269-01	88	6864459	315034
4j3011.D	a105269-02	95	6413969	341757

(fails) - fails 12hr time check * - fails criteria

Created: Tue Oct 04 09:26:01 2011 OVGCMS4

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\DATA\100311\
Data File : 4j3008.D
Acq On : 3 Oct 2011 17:19
Operator : kat
Sample : a105207-01
Misc :
ALS Vial : 8 Sample Multiplier: 1
InstName : OVGCMS4

Quant Time: Oct 04 09:21:26 2011
Quant Method : C:\msdchem\1\METHODS\METHODS\D1106015.M
Quant Title : ENCO SOPVGCMS/10;element cal 1106015
QLast Update : Mon Jun 13 12:21:39 2011
Response via : Initial Calibration

KDW 10-4-11

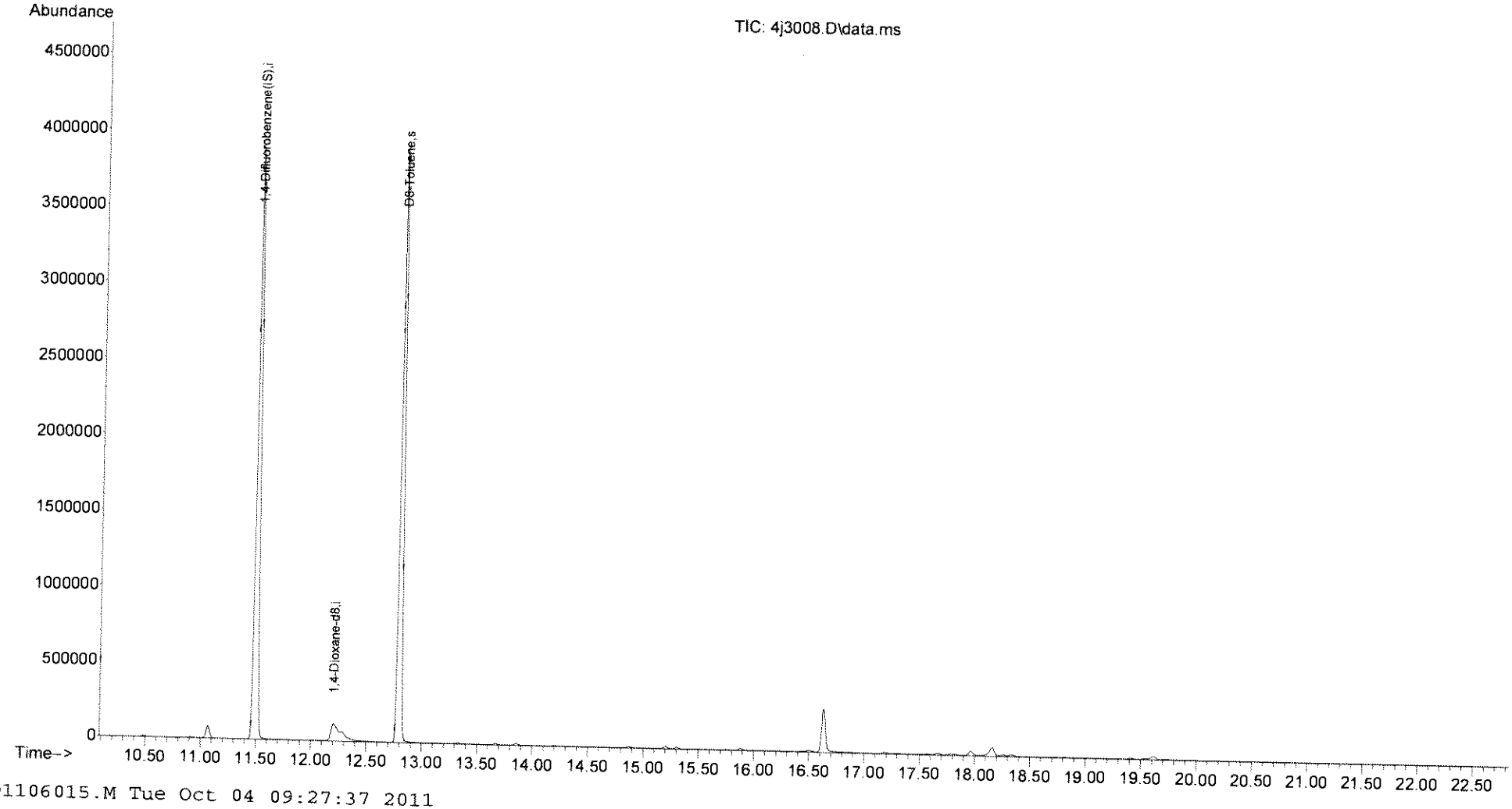
Internal Standards	R.T.	QIon	Response	Conc Units	Dev(Min)
1) 1,4-Difluorobenzene(IS)	11.492	114	5847174	5.000 ug/L	0.00
4) 1,4-Dioxane-d8	12.204	64	265809	50.000 ug/l	-0.05
System Monitoring Compounds					
2) D8-Toluene	12.797	98	7067750m	5.774 ug/L	0.00
Spiked Amount 5.000	Range	79 - 127	Recovery	= 115.480%	
Target Compounds					Qvalue
3) D8-Toluene	12.797	98	7067750m	5.774 ug/L	
5) 1,4-Dioxane	0.000	88	0	N.D. d	

(#) = qualifier out of range (m) = manual integration (+) = signals summed

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\DATA\100311\
Data File : 4j3008.D
Acq On : 3 Oct 2011 17:19
Operator : kat
Sample : a105207-01
Misc :
ALS Vial : 8 Sample Multiplier: 1
InstName : OVGCMS4

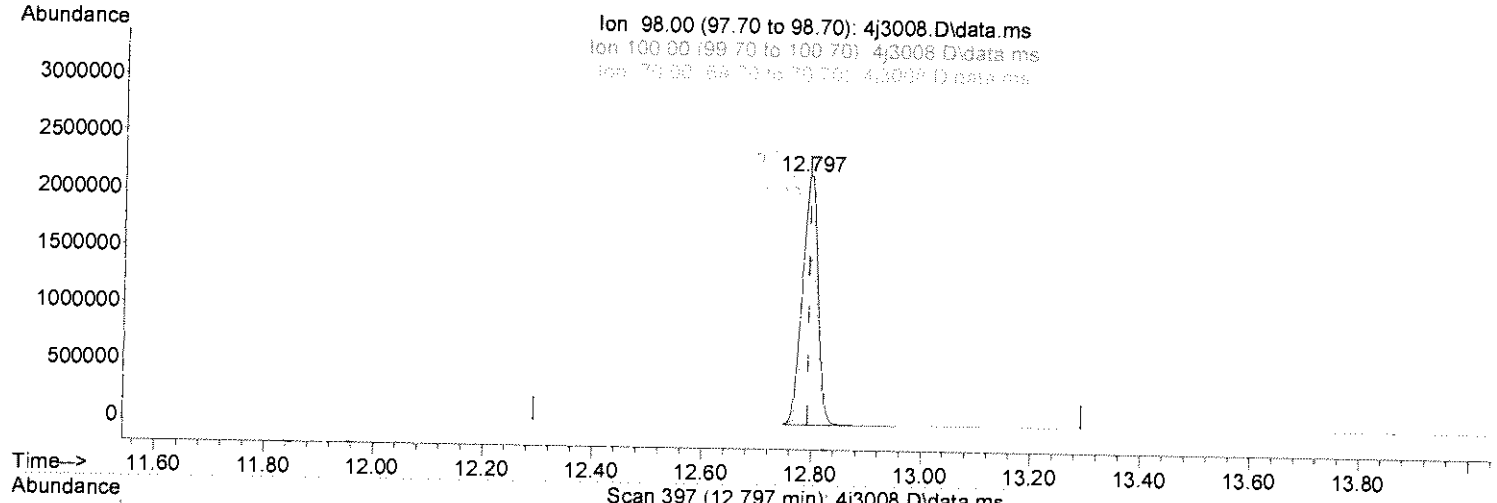
Quant Time: Oct 04 09:21:26 2011
Quant Method : C:\msdchem\1\METHODS\METHODS\D1106015.M
Quant Title : ENCO SOPVGCMS/10;element cal 1106015
QLast Update : Mon Jun 13 12:21:39 2011
Response via : Initial Calibration

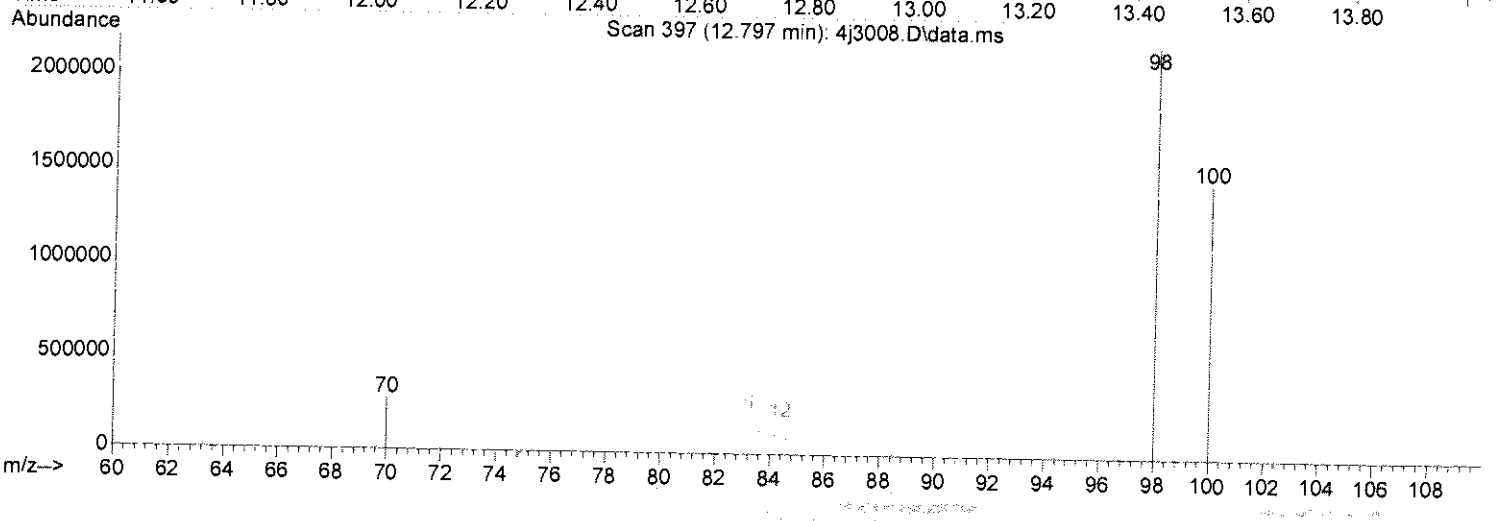


Quantitation Report (Qedit)

Data Path : C:\msdchem\1\DATA\100311\
Data File : 4j3008.D
Acq On : 3 Oct 2011 17:19
Operator : kat
Sample : a105207-01
Misc :
ALS Vial : 8 Sample Multiplier: 1
InstName : OVGCMS4

Quant Time: Oct 04 09:18:15 2011
Quant Method : C:\msdchem\1\METHODS\METHODS\D1106015.M
Quant Title : ENCO SOPVGCMS/10;element cal 1106015
QLast Update : Mon Jun 13 12:21:39 2011
Response via : Initial Calibration





TIC: 4j3008.D\data.ms

(2) D8-Toluene (s)

12.797min (+0.004) 3.53ug/L

response 4315641

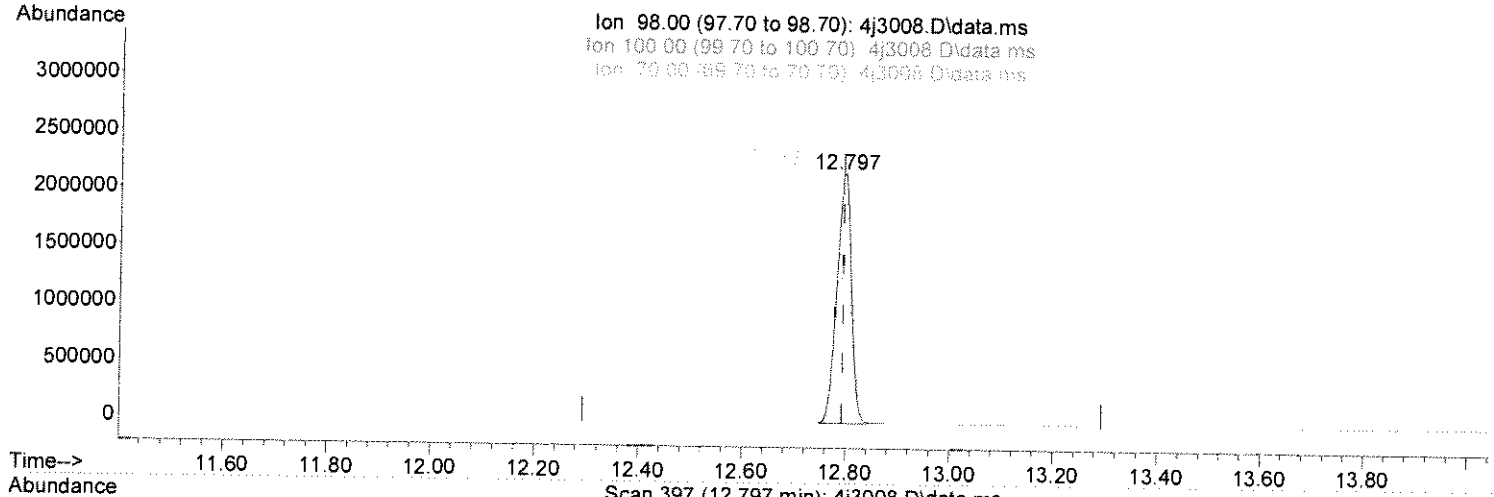
Ion	Exp%	Act%
98.00	100	100
100.00	69.90	65.06
70.00	12.20	13.02
0.00	0.00	0.00

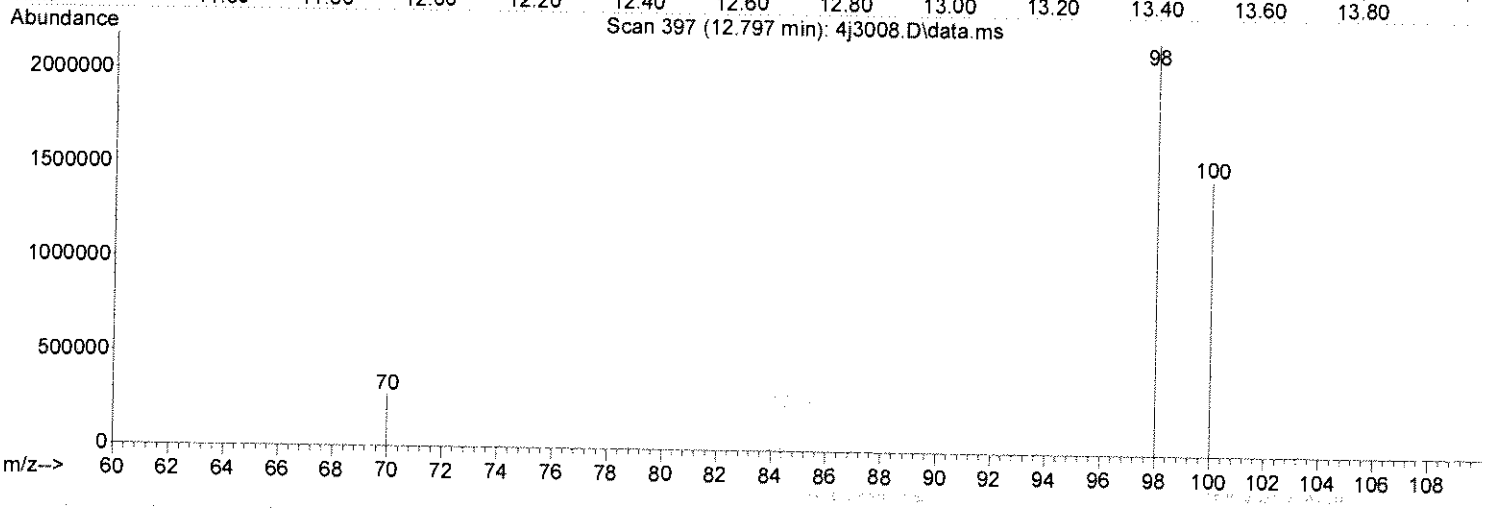
Select one:
[✓] Original integration [ ] Manual integration
Select reason for manual integration:
[ ] Poor integration (peak tailing, baseline selection)
[ ] Incorrect peak selection/Peak not found
[ ] Hump integration
[ ] Baseline drop for split peaks
[ ] ISTD reintegration
[ ] Other:
Review by/Date: KDW 10-4-11
Review by/Date: KAT 10-4-11

Quantitation Report (Qedit)

Data Path : C:\msdchem\1\DATA\100311\
Data File : 4j3008.D
Acq On : 3 Oct 2011 17:19
Operator : kat
Sample : a105207-01
Misc :
ALS Vial : 8 Sample Multiplier: 1
InstName : OVGCMS4

Quant Time: Oct 04 09:18:15 2011
Quant Method : C:\msdchem\1\METHODS\METHODS\D1106015.M
Quant Title : ENCO SOPVGCMS/10;element cal 1106015
QLast Update : Mon Jun 13 12:21:39 2011
Response via : Initial Calibration





TIC: 4j3008.D\data.ms

(2) D8-Toluene (s)

12.797min (+0.004) 5.77ug/L m

response 7067750

Ion	Exp%	Act%
98.00	100	100
100.00	69.90	39.73#
70.00	12.20	7.95#
0.00	0.00	0.00

Select one:
[ ] Original integration [✓] Manual integration
Select reason for manual integration:
[✓] Poor integration (peak tailing, baseline selection)
[ ] Incorrect peak selection/Peak not found
[ ] Hump integration
[ ] Baseline drop for split peaks
[ ] ISTD reintegration
[ ] Other:
Review by/Date: KDW 10-4-11
Review by/Date: KAT 10-4-11

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\DATA\100311\
Data File : 4j3009.D
Acq On : 3 Oct 2011 17:54
Operator : kat
Sample : a105206-01
Misc :
ALS Vial : 9 Sample Multiplier: 1
InstName : OVGCMS4

KDW
10-4-11

Quant Time: Oct 04 09:22:11 2011
Quant Method : C:\msdchem\1\METHODS\METHODS\D1106015.M
Quant Title : ENCO SOPVGCMS/10;element cal 1106015
QLast Update : Mon Jun 13 12:21:39 2011
Response via : Initial Calibration

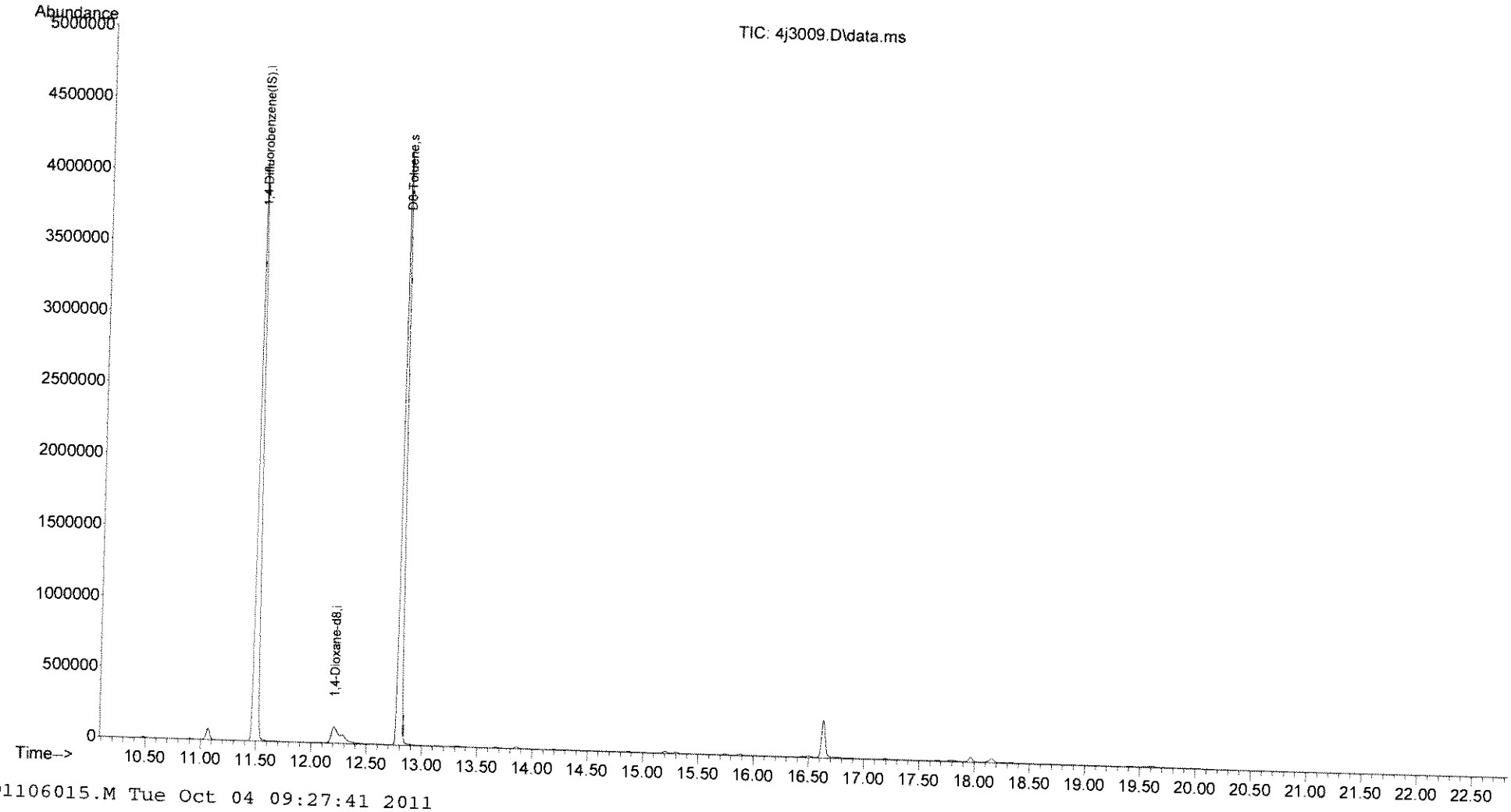
Internal Standards	R.T.	QIon	Response	Conc Units	Dev(Min)
1) 1,4-Difluorobenzene(IS)	11.492	114	6144970	5.000 ug/L	0.00
4) 1,4-Dioxane-d8	12.204	64	249914	50.000 ug/l	-0.05
System Monitoring Compounds					
2) D8-Toluene	12.797	98	7489613m	5.822 ug/L	0.00
Spiked Amount 5.000	Range 79 - 127		Recovery	= 116.440%	
Target Compounds					Qvalue
3) D8-Toluene	12.797	98	7489613m	5.822 ug/L	
5) 1,4-Dioxane	0.000	88	0	N.D. d	

(#) = qualifier out of range (m) = manual integration (+) = signals summed

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\DATA\100311\
Data File : 4j3009.D
Acq On : 3 Oct 2011 17:54
Operator : kat
Sample : a105206-01
Misc :
ALS Vial : 9 Sample Multiplier: 1
InstName : OVGCMS4

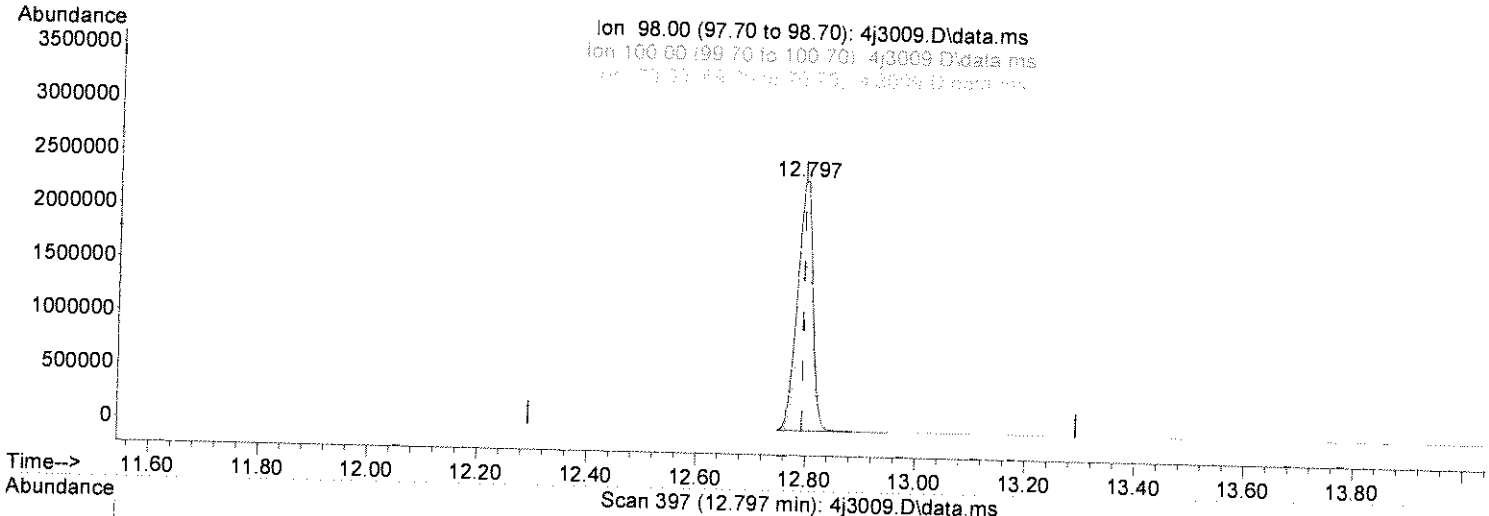
Quant Time: Oct 04 09:22:11 2011
Quant Method : C:\msdchem\1\METHODS\METHODS\D1106015.M
Quant Title : ENCO SOPVGCMS/10;element cal 1106015
QLast Update : Mon Jun 13 12:21:39 2011
Response via : Initial Calibration

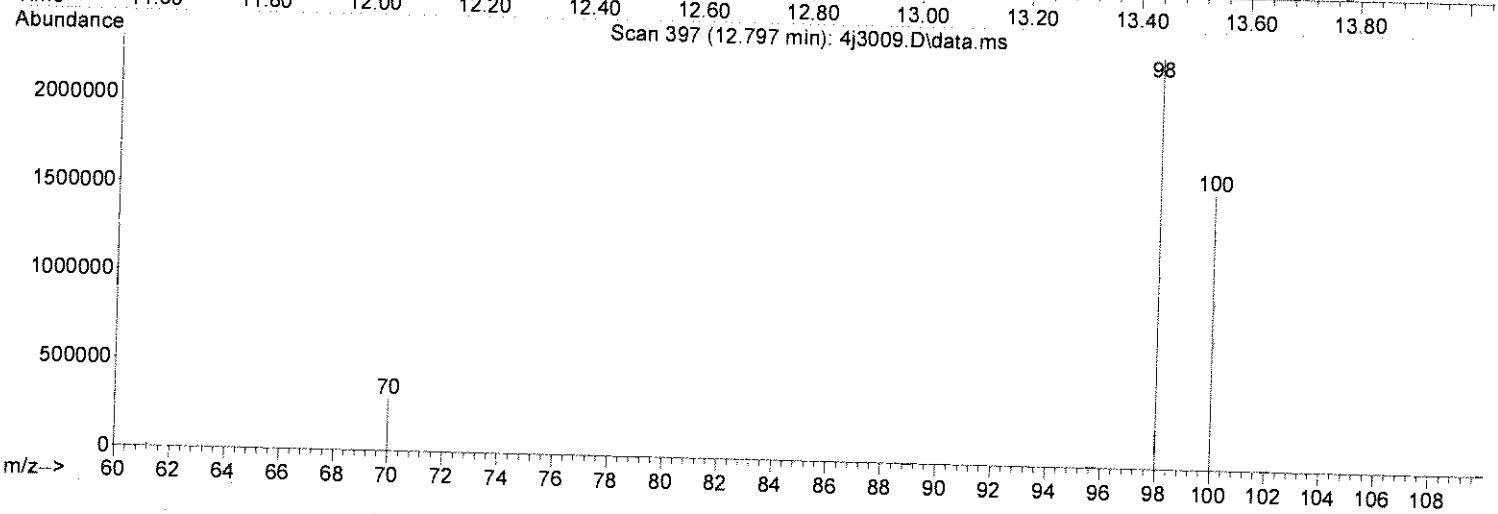


Quantitation Report (Qedit)

Data Path : C:\msdchem\1\DATA\100311\
Data File : 4j3009.D
Acq On : 3 Oct 2011 17:54
Operator : kat
Sample : a105206-01
Misc :
ALS Vial : 9 Sample Multiplier: 1
InstName : OVGCMS4

Quant Time: Oct 04 09:18:16 2011
Quant Method : C:\msdchem\1\METHODS\METHODS\D1106015.M
Quant Title : ENCO SOPVGCMS/10;element cal 1106015
QLast Update : Mon Jun 13 12:21:39 2011
Response via : Initial Calibration





TIC: 4j3009.D\data.ms

(2) D8-Toluene (s)

12.797min (+0.004) 3.56ug/L

response 4574561

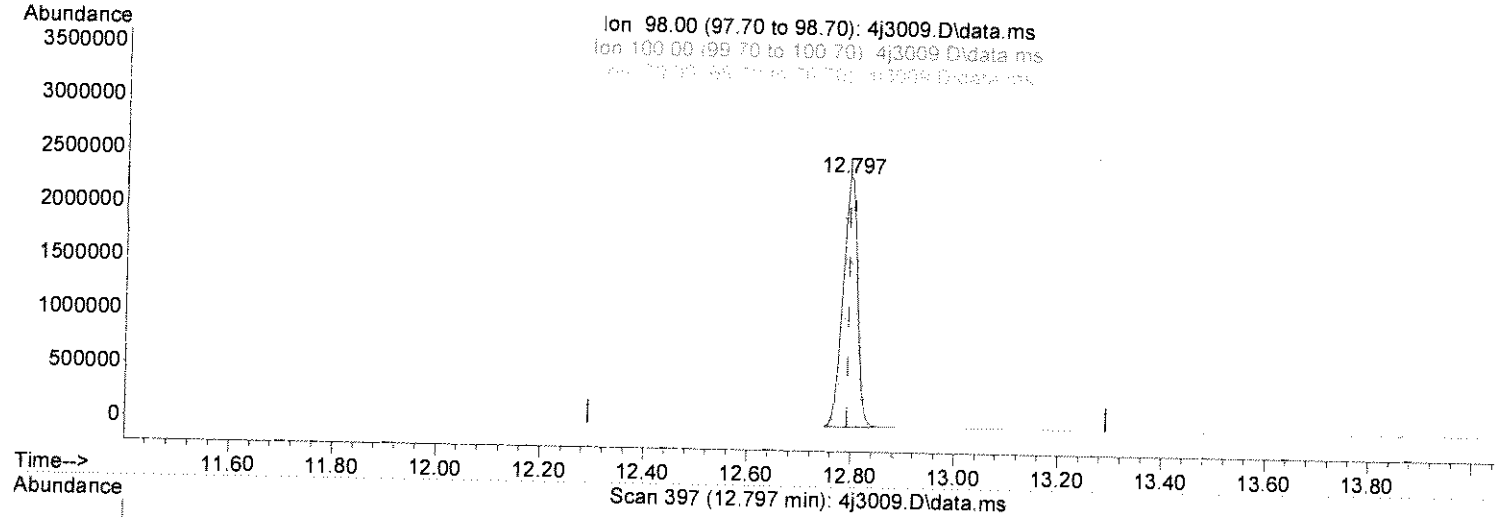
Ion	Exp%	Act%
98.00	100	100
100.00	69.90	65.09
70.00	12.20	13.07
0.00	0.00	0.00

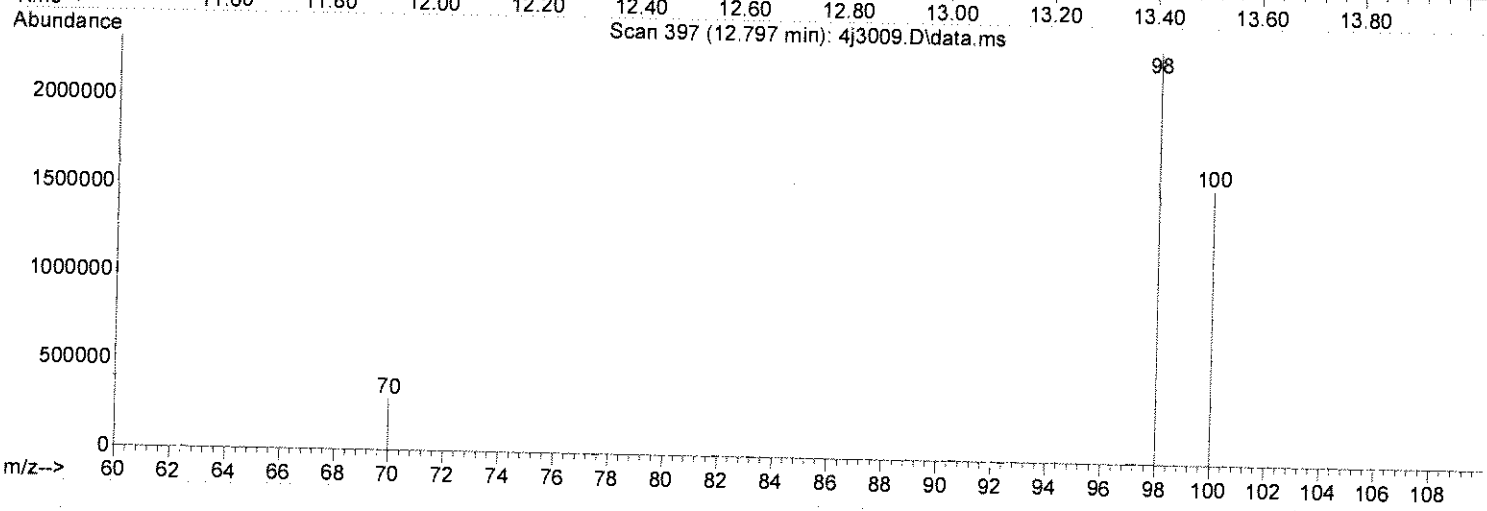
Select one:
[✓] Original integration [ ] Manual integration
Select reason for manual integration:
[ ] Poor integration (peak tailing, baseline selection)
[ ] Incorrect peak selection/Peak not found
[ ] Hump integration
[ ] Baseline drop for split peaks
[ ] ISTD reintegration
[ ] Other:
Review by/Date: KDW 10-4-11
Review by/Date: KAT 10-4-11

Quantitation Report (Qedit)

Data Path : C:\msdchem\1\DATA\100311\
Data File : 4j3009.D
Acq On : 3 Oct 2011 17:54
Operator : kat
Sample : a105206-01
Misc :
ALS Vial : 9 Sample Multiplier: 1
InstName : OVGCMS4

Quant Time: Oct 04 09:18:16 2011
Quant Method : C:\msdchem\1\METHODS\METHODS\D1106015.M
Quant Title : ENCO SOPVGCMS/10;element cal 1106015
QLast Update : Mon Jun 13 12:21:39 2011
Response via : Initial Calibration





TIC: 4j3009.D\data.ms

(2) D8-Toluene (s)

12.797min (+0.004) 5.82ug/L m

response 7489613

Ion	Exp%	Act%
98.00	100	100
100.00	69.90	39.76#
70.00	12.20	7.98#
0.00	0.00	0.00

Select one:
[ ] Original integration [✓] Manual integration
Select reason for manual integration:
[✓] Poor integration (peak tailing, baseline selection)
[ ] Incorrect peak selection/Peak not found
[ ] Hump integration
[ ] Baseline drop for split peaks
[ ] ISTD reintegration
[ ] Other:
Review by/Date: KDW 10-4-11
Review by/Date: KAT 10-4-11

ANALYSIS SEQUENCE

AA16667

Instrument: OVGCMS4

Calibration ID: 1106015

Lab Number	Analysis	Container	Order	Position	STD ID	ISTD ID	Client
AA16667-TUN1	QC		1		A110569		
AA16667-CCV1	QC		2		A110075	A110055	
1J03019-BS1	QC		3			A110055	
1J03019-BLK1	QC		4			A110055	
1J03019-MS1	QC		5			A110055	
1J03019-MSD1	QC		6			A110055	
A105207-01	8260C SIM ID	A	7			A110055	Empirical Laboratories, LLC (EM014)
A105207-01	8260B SIM ID DOD	A	7			A110055	Empirical Laboratories, LLC (EM014)
A105206-01	8260B SIM ID DOD	A	8			A110055	Empirical Laboratories, LLC (EM014)
A105269-01	8260C SIM ID	A	9			A110055	ENCO Jacksonville
A105269-02	8260C SIM ID	A	10			A110055	ENCO Jacksonville

Samples Loaded By _____ Date _____

Data Processed By _____ Date _____

PREPARATION BENCH SHEET

Analysis
8260B SIM ID DOD
8260C SIM ID

1J03019

ENCO Orlando

Prepared using: EPA 5030B_MS

Printed: 10/3/2011 13:07:12

Surrogate Solution
___ A1I0057 8260/iso surr toluene-d8 (iso dil) virtual

Spiking Solution
A1G0066 8260 1,4-dioxane 2nd working

Matrix: Water

Lab Number	Code	Sample ID, Source and Sample Location	Due Date	Analysis	pH adj	Res Cl(1)	Initial (mL)	Final (mL)	Spike ID	ul Spike	ul Surr1	ul Surr2	Extraction Comments
1J03019-BLK1		Blank		QC							1		
1J03019-BS1		LCS		QC					A1G0066	7.5	1		
1J03019-MS1		Matrix Spike [A105207-01]		QC					A1G0066	7.5	1		
1J03019-MSD1		Matrix Spike Dup [A105207-01]		QC					A1G0066	7.5	1		
A105206-01	D	FLC-4-RB01-092211 (1109191 A[MS24	05-Oct-11	8260B SIM ID DOD							1		
A105207-01	D	FLC-5-RB01-092311 (1109192A[MS24		8260C SIM ID							1		Added for BatchQC in: 1J03019
A105207-01	D	FLC-5-RB01-092311 (1109192A[MS24	05-Oct-11	8260B SIM ID DOD							1		
A105269-01		B104698-01 (SV 28236L) A[MS25	06-Oct-11	8260C SIM ID							1		Unpreserved Container!
A105269-02		B104698-02 (SV 34599L) A[MS25	06-Oct-11	8260C SIM ID							1		Unpreserved Container!

(1) Before solvent extraction proceeds, verify that there is no residual chlorine above 0.5 mg/L. Any sample above this must be treated to remove excess chlorine before extraction, and this documented as a comment.

Inst. 4 sims

Start Date/Time _____

StopDate/Time _____

Standard ID#	Description	Manufacture Lot#

C:\ELMNT\Print\bch_ENCO_EXT.rpt

PREPARATION BENCH SHEET

1J03019

ENCO Orlando

Printed: 10/3/2011 13:07:12

Prepared using: EPA 5030B_MS

Surrogate Solution

___ A1I0057 8260/iso surr toluene-d8 (iso dil) virtual

Spiking Solution

A1G0066 8260 1,4-dioxane 2nd working

Matrix: Water

Lab Number	Code	Sample ID, Source and Sample Location	Due Date	Analysis	pH adj	Res Cl(1)	Initial (mL)	Final (mL)	Spike ID	ul Spike	ul Surr1	ul Surr2	Extraction Comments

Equipment Used

Sonicator _____ Tuned per manufacturer instructions? [ ] Yes [ ] No [ ] NA

Turbovap _____ Temperature: _____ N2 pressure (initial): _____ (final): _____

Turbovap _____ Temperature: _____ N2 pressure (initial): _____ (final): _____

Turbovap _____ Temperature: _____ N2 pressure (initial): _____ (final): _____

Balance _____ Daily calibration complete? [ ] Yes [ ] No [ ] NA

Other _____

Samples Prepared By _____ Date _____

Samples Prepared By _____ Date _____

Samples Prepared By _____ Date _____

C:\ELMNT\Print\bch_ENCO_EXT.rpt

VOLATILES GC/MS LOGBOOK
Volatiles
EPA Method 624
SW-846 Method 8260

Tune Start Date/Time: 10 03 11 1328
Tune End Date/Time: 10 04 11 0128
Preventive Maintenance: auto 8260
Method: 8260 - SIM
Workgroup: 1IJ03019

Surrogate ID: A1IEC56/57
Internal ID: A1I0054/55
LCS Acrolein 2°: A
LCS 8260 2°:
Other Standard: A1IW5600/1 BFB
SEE AA16667 1°. A1G0065/1 2° A1G0066/1 CLS: A1I0075

8260 Mix:
8260 Add:
8260 Ac/Ac:
8260 Gases:
Instrument #: 1, 2, 3, or 4

Filename	Time	ENCO No.	Amount	Pos.	pH (<2)	RC	Analyst	Comments	LIMS
4J3001	13:28	BFB5015	1µl/5mL	1	NA	NA	KT	A1 16667 - tune	✓
4J3002	14:29	8260 CLS 25ppb	15mL	2	NA	NA	KT	AA16667 - cal	✓
4J3004	15:01	1J03019-BS1	15mL	3	NA	NA	KT	LCS	✓
4J3005	15:35	1J03019-BK1	15mL	4	NA	NA	KT	BK	✓
4J3006	16:10	1J03019-MS1	15mL	5	✓	NA	KT	MS	✓
4J3007	16:44	1J03019-MSD	15mL	6	✓	NA	KT	MSD	✓
4J3008	17:19	A105007-01	15mL	7	✓	NA	KT	SIM Source	✓
4J3009	17:54	A105006-01	15mL	8	✓	NA	KT		✓
4J3010	18:28	A105009-01	15mL	9	✓	NA	KT		✓
4J3011	19:03	A105009-02	15mL	10	✓	NA	KT		✓

KDW 10-4-11

Subcontractor Data Package
Cape Fear Analytical, LLC

CFA | Cape Fear Analytical LLC
an affiliate of The GEL Group INC

3306 Kitty Hawk Road, Suite 120 Wilmington, NC 28405
P 910.795.0421
www.capefearanalytical.com

October 11, 2011

Mr. Brian Richard
Empirical Laboratories, LLC
621 Mainstream Drive
Suite 270
Nashville, Tennessee 37228

Re: Dioxin Subcontract (CFAP1100010)
Work Order: 2818
SDG: 1109191

Dear Mr. Richard:

Cape Fear Analytical LLC (CFA) appreciates the opportunity to provide the enclosed analytical results for the sample(s) we received on September 27, 2011. This original data report has been prepared and reviewed in accordance with CFA's standard operating procedures.

Our policy is to provide high quality, personalized analytical services to enable you to meet your analytical needs on time every time. We trust that you will find everything in order and to your satisfaction. If you have any questions, please do not hesitate to call me at 910-795-0421.

Sincerely,

Cynthia Larkins
Project Manager

Purchase Order: 11-1136
Enclosures

SUBCONTRACT ORDER

Empirical Laboratories, LLC

1109191

SENDING LABORATORY:

Empirical Laboratories, LLC
621 Mainstream Drive, Suite 270
Nashville, TN 37228
Phone: 615.345.1115
Fax: 866.417.0548
Project Manager: Brian Richard

RECEIVING LABORATORY:

Cape Fear Analytical
3306 Kitty Hawk Road, Suite 120
Wilmington, NC 28405
Phone :(919) 552-2127
Fax: 919-52-2127

PO# 11-1136

Analysis	Due	Expires	Laboratory ID	Comments
Sample ID: FLC-4-SSC-0006-092211				
Reference No: 1109191-07	**Solid**	**Sampled:09/22/2011 10:45**		
SUB_DIOXINS_8290	10/05/2011 14:00	10/22/2011 10:45		
Containers Supplied:				
Sample ID: FLC-4-SSC-0624-092211				
Reference No: 1109191-08	**Solid**	**Sampled:09/22/2011 10:50**		
SUB_DIOXINS_8290	10/05/2011 14:00	10/22/2011 10:50		
Containers Supplied:				
Sample ID: FLC-4-SBC-0204-092211				
Reference No: 1109191-09	**Solid**	**Sampled:09/22/2011 10:55**		
SUB_DIOXINS_8290	10/05/2011 14:00	10/22/2011 10:55		
Containers Supplied:				
Sample ID: FLC-4-RB01-092211				
Reference No: 1109191-10	**Water**	**Sampled:09/22/2011 11:15**		
SUB_DIOXINS_8290	10/05/2011 14:00	10/22/2011 11:15		
Containers Supplied:				

WO # 2818
temp. = 0.3°

Released By	Date	Received By	Date
		Cynde Larkins	27Sep2011 1145

Released By	Date	Received By	Date

SAMPLE RECEIPT CHECKLIST

Cape Fear Analytical

Client: Empirical	Work Order: 2818
Received By: Cynde Larkins	Date/Time Received: 27Sep2011 1145

Suspected Hazard Information	Yes	NA	No
Shipped as DOT Hazardous?		✓	
Samples identified as Foreign Soil?		✓	

	Sample Receipt Criteria	Yes	NA	No	Comments/Qualifiers (required for Non-Conforming Items)
1	Shipping containers received intact and sealed?	✓			Circle Applicable: seals broken damaged container leaking container other(describe) seal present and intact
2	Chain of Custody documents included with shipment?	✓			
3	Samples requiring cold preservation within 0-6°C?	✓			Preservation Method: ice bags blue ice dry ice none other (describe) 0.3°
4	Samples requiring chemical preservation at proper pH?		✓		Sample IDs, containers affected and pH observed: pH = 7 on both containers of water If preservative added, Lot#:
5	Samples requiring preservation have no residual chlorine?	✓			Sample IDs, containers affected: If preservative added, Lot#:
6	Samples received within holding time?	✓			Sample IDs, tests affected:
7	Sample IDs on COC match IDs on containers?	✓			Sample IDs, containers affected:
8	Date & time of COC match date & time on containers?	✓			Sample IDs, containers affected:
9	Number of containers received match number indicated on COC?			✓	Sample IDs, containers affected: Number of containers (3 soil jars, 2 water) not noted on COC
10	COC form is properly signed in relinquished/received sections?			✓	COC is not relinquished to CFA

Comments:

Checklist performed by: Initials: CY Date: 27Sep2011

High Resolution Dioxin and Furan Analysis

Case Narrative

HDOX Case Narrative
Empirical Laboratories, Incorporated (EMPI)
SDG 1109191

Method/Analysis Information

Product:	**Dioxins/Furans by SW846 Method 8290A**
Analytical Method:	SW846 8290A
Extraction Method:	SW846 3540C, 3520C
Analytical Batch Number:	19680, 19685
Clean Up Batch Number:	19673, 19671
Extraction Batch Number:	19663, 19665

Sample Analysis

The following samples were analyzed using the analytical protocol as established in SW846 8290A:

Sample ID	Client ID
2818001	FLC-4-SSC-0006-092211
2818002	FLC-4-SSC-0624-092211
2818003	FLC-4-SBC-0204-092211
2818004	FLC-4-RB01-092211
12004340	Laboratory Control Sample (LCS)
12004341	Laboratory Control Sample Duplicate (LCSD)
12004342	Method Blank (MB)
12004343	2818001(FLC-4-SSC-0006-092211) Matrix Spike (MS)
12004344	2818001(FLC-4-SSC-0006-092211) Matrix Spike Duplicate (MSD)
12004403	Laboratory Control Sample (LCS)
12004404	Laboratory Control Sample Duplicate (LCSD)
12004405	Method Blank (MB)

Samples 2818 001, 002 and 003 in this SDG were analyzed on a "dry weight" basis. Sample 2818 004 in this SDG was analyzed on an "as received" basis.

Preparation/Analytical Method Verification

SOP Reference

Procedure for preparation, analysis and reporting of analytical data are controlled by Cape Fear Analytical LLC (CFA) as Standard Operating Procedure (SOP). The data discussed in this narrative has been analyzed in accordance with CF-OA-E-002 REV# 9.

Raw data reports are processed and reviewed by the analyst using the TargetLynx software package.

Calibration Information

Initial Calibration
All initial calibration requirements have been met for this sample delivery group (SDG).

Continuing Calibration Verification (CCV) Requirements
All associated calibration verification standard(s) (ICV or CCV) met the acceptance criteria.

Quality Control (QC) Information

Method Blank (MB) Statement
The MB(s) analyzed with this SDG met the acceptance criteria.

Certification Statement
The test results presented in this document are certified to meet all requirements of the 2003 NELAC Standard.

Surrogate Recoveries
All surrogate recoveries were within the established acceptance criteria for this SDG.

Laboratory Control Sample (LCS) Recovery
The LCS spike recoveries met the acceptance limits.

Laboratory Control Sample Duplicate (LCSD) Recovery
The LCSD spike recoveries met the acceptance limits.

LCS/LCSD Relative Percent Difference (RPD) Statement
The RPD(s) between the LCS and LCSD met the acceptance limits.

QC Sample Designation
Sample 2818001 (FLC-4-SSC-0006-092211)- Batch 19680 was selected for analysis as the matrix spike and matrix spike duplicate.

Matrix Spike/Duplicate (MS/MSD) Recovery Statement
The MS recoveries for this SDG were not within the acceptance limits. The failures confirm in the matrix spike duplicate and are attributed to matrix interference. Sample data is validated based on acceptable LCS/LCSD results. 12004343 MS (FLC-4-SSC-0006-092211) and 12004344 MSD (FLC-4-SSC-0006-092211)- Batch 19680.

MS/MSD Relative Percent Difference (RPD) Statement
The RPD(s) between the MS and MSD met the acceptance limits.

Technical Information

Holding Time Specifications
CFA assigns holding times based on the associated methodology, which assigns the date and time from sample collection. Those holding times expressed in hours are calculated in the AlphaLIMS system. Those holding times expressed as days expire at midnight on the day of expiration. All samples in this SDG met the specified holding time.

Preparation/Analytical Method Verification
All procedures were performed as stated in the SOP.

Sample Dilutions
The sample was diluted due to the presence of matrix interferences which caused retention time shifting. 2818002 (FLC-4-SSC-0624-092211)- Batch 19680.

Sample Re-extraction/Re-analysis
Re-extractions or re-analyses were not required in this SDG.

Miscellaneous Information

Nonconformance (NCR) Documentation
The following NCR was generated for this SDG: 643109 12004343 MS (FLC-4-SSC-0006-092211) and 12004344 MSD (FLC-4-SSC-0006-092211)- Batch 19680.

Manual Integrations
Certain standards and QC samples required manual integrations to correctly position the baseline as set in the calibration standard injections. Where manual integrations were performed, copies of all manual integration peak profiles are included in the raw data section of this fraction. Manual integrations were required for data files in this SDG.

System Configuration
This analysis was performed on the following instrument configuration:

Instrument ID	Instrument	System Configuration	Column ID	Column Description
HRP763_1	Waters Autospec Premier high-resolution GC/MS system	Waters Autospec Prem	DB-5MS	60m x 0.25mm, 0.25um

Sample Data Summary

Cape Fear Analytical, LLC

3306 Kitty Hawk Road Suite 120, Wilmington, NC 28405 - (910) 795-0421 - www.capefearanalytical.com

Certificate of Analysis Report
for

EMPI001 Empirical Laboratories, Incorporated

Client SDG: 1109191 CFA Work Order: 2818

The Qualifiers in this report are defined as follows:

* A quality control analyte recovery is outside of specified acceptance criteria
** Analyte is a surrogate compound
E Value is estimated - Concentration of the target analyte exceeds the instrument calibration range
J Value is estimated
K Estimated Maximum Possible Concentration
Q Quantitative Interference
U Analyte was analyzed for , but not detected above the specified detection limit.

Review/Validation

Cape Fear Analytical requires all analytical data to be verified by a qualified data reviewer.

The following data validator verified the information presented in this case narrative:

Signature: Heather Patterson **Name: Heather Patterson**

Date: 11 OCT 2011 **Title: Analyst III**

Hi-Res Dioxins/Furans
Certificate of Analysis
Sample Summary

SDG Number:	**1109191**	**Client:**	**EMPI001**	**Project:**	**EMPI00311**
Lab Sample ID:	**2818001**	**Date Collected:**	**09/22/2011 10:45**	**Matrix:**	**SOLID**
Client Sample:	**8290 Soil**	**Date Received:**	**09/27/2011 11:45**	**%Moisture:**	**13**
Client ID:	**FLC-4-SSC-0006-092211**			**Prep Basis:**	**Dry Weight**
Batch ID:	**19680**	**Method:**	**SW846 8290A**		
Run Date:	**10/10/2011 16:18**	**Analyst:**	**MJC**	**Instrument:**	**HRP763**
Data File:	**b10oct11a-5**			**Dilution:**	**1**
Prep Batch:	**19663**	**Prep Method:**	**SW846 3540C**		
Prep Date:	**04-OCT-11**	**Aliquot:**	**12.21 g**		

CAS No.	Parmname	Qual	Result	EMPC	Units	EDL	PQL
1746-01-6	2,3,7,8-TCDD	U	.348		pg/g	0.348	0.941
40321-76-4	1,2,3,7,8-PeCDD		4.73		pg/g	0.401	4.71
39227-28-6	1,2,3,4,7,8-HxCDD		13.4		pg/g	0.587	4.71
57653-85-7	1,2,3,6,7,8-HxCDD		34.3		pg/g	0.544	4.71
19408-74-3	1,2,3,7,8,9-HxCDD		22.3		pg/g	0.608	4.71
35822-46-9	1,2,3,4,6,7,8-HpCDD		1670		pg/g	2.18	4.71
3268-87-9	1,2,3,4,6,7,8,9-OCDD	E	11000		pg/g	1.78	9.41
51207-31-9	2,3,7,8-TCDF	U	.45		pg/g	0.450	0.941
57117-41-6	1,2,3,7,8-PeCDF	U	.672		pg/g	0.672	4.71
57117-31-4	2,3,4,7,8-PeCDF	J	0.706		pg/g	0.687	4.71
70648-26-9	1,2,3,4,7,8-HxCDF		9.11		pg/g	0.472	4.71
57117-44-9	1,2,3,6,7,8-HxCDF	JK		1.54	pg/g	0.407	4.71
60851-34-5	2,3,4,6,7,8-HxCDF	J	2.10		pg/g	0.450	4.71
72918-21-9	1,2,3,7,8,9-HxCDF	U	.544		pg/g	0.544	4.71
67562-39-4	1,2,3,4,6,7,8-HpCDF		18.6		pg/g	0.296	4.71
55673-89-7	1,2,3,4,7,8,9-HpCDF	J	1.80		pg/g	0.407	4.71
39001-02-0	1,2,3,4,6,7,8,9-OCDF		19.1		pg/g	0.422	9.41
41903-57-5	Total Tetrachlorodibenzo-p-dioxin	U	.348		pg/g	0.348	0.941
36088-22-9	Total Pentachlorodibenzo-p-dioxin	Q	17.4	18.9	pg/g	0.401	4.71
34465-46-8	Total Hexachlorodibenzo-p-dioxin	Q	394	402	pg/g	0.544	4.71
37871-00-4	Total Heptachlorodibenzo-p-dioxin	E	3290		pg/g	2.18	4.71
30402-14-3	Total Tetrachlorodibenzofuran		1.76		pg/g	0.450	0.941
30402-15-4	Total Pentachlorodibenzofuran	Q	8.92	9.99	pg/g	0.203	4.71
55684-94-1	Total Hexachlorodibenzofuran	Q	55.1	56.7	pg/g	0.407	4.71
38998-75-3	Total Heptachlorodibenzofuran		40.8		pg/g	0.296	4.71
3333-30-0	TEQ WHO2005 ND=0		33.3	33.4	pg/g		
3333-30-1	TEQ WHO2005 ND=0.5		33.5	33.6	pg/g		

Surrogate/Tracer recovery	Qual	Result	Nominal	Units	Recovery%	Acceptable Limits
13C-2,3,7,8-TCDD		159	188	pg/g	84.3	(40%-135%)
13C-1,2,3,7,8-PeCDD		117	188	pg/g	62.1	(40%-135%)
13C-1,2,3,6,7,8-HxCDD		165	188	pg/g	87.6	(40%-135%)
13C-1,2,3,4,6,7,8-HpCDD		206	188	pg/g	109	(40%-135%)
13C-OCDD		435	376	pg/g	116	(40%-135%)
13C-2,3,7,8-TCDF		162	188	pg/g	85.9	(40%-135%)
13C-1,2,3,7,8-PeCDF		127	188	pg/g	67.6	(40%-135%)
13C-1,2,3,6,7,8-HxCDF		142	188	pg/g	75.6	(40%-135%)
13C-1,2,3,4,6,7,8-HpCDF		182	188	pg/g	96.5	(40%-135%)

Comments:

E Value is estimated - Concentration of the target analyte exceeds the instrument calibration range
J Value is estimated
K Estimated Maximum Possible Concentration
Q Quantitative Interference
U Analyte was analyzed for , but not detected above the specified detection limit.

Hi-Res Dioxins/Furans
Certificate of Analysis
Sample Summary

SDG Number:	**1109191**	**Client:**	**EMPI001**	**Project:**	**EMPI00311**
Lab Sample ID:	**2818002**	**Date Collected:**	**09/22/2011 10:50**	**Matrix:**	**SOLID**
Client Sample:	**8290 Soil**	**Date Received:**	**09/27/2011 11:45**	**%Moisture:**	**11.5**
Client ID:	**FLC-4-SSC-0624-092211**			**Prep Basis:**	**Dry Weight**
Batch ID:	**19680**	**Method:**	**SW846 8290A**		
Run Date:	**10/10/2011 22:15**	**Analyst:**	**MJC**	**Instrument:**	**HRP763**
Data File:	**b10oct11a-13**			**Dilution:**	**20**
Prep Batch:	**19663**	**Prep Method:**	**SW846 3540C**		
Prep Date:	**04-OCT-11**	**Aliquot:**	**11.37 g**		

CAS No.	Parmname	Qual	Result	EMPC	Units	EDL	PQL
1746-01-6	2,3,7,8-TCDD	U	5.92		pg/g	5.92	19.9
40321-76-4	1,2,3,7,8-PeCDD	JK		4.46	pg/g	4.33	99.4
39227-28-6	1,2,3,4,7,8-HxCDD	JK		11.2	pg/g	4.51	99.4
57653-85-7	1,2,3,6,7,8-HxCDD	J	28.5		pg/g	4.18	99.4
19408-74-3	1,2,3,7,8,9-HxCDD	JQ	18.0		pg/g	4.67	99.4
35822-46-9	1,2,3,4,6,7,8-HpCDD		1630		pg/g	7.81	99.4
3268-87-9	1,2,3,4,6,7,8,9-OCDD		11900		pg/g	9.64	199
51207-31-9	2,3,7,8-TCDF	U	3.26		pg/g	3.26	19.9
57117-41-6	1,2,3,7,8-PeCDF	U	5.57		pg/g	5.57	99.4
57117-31-4	2,3,4,7,8-PeCDF	U	5.69		pg/g	5.69	99.4
70648-26-9	1,2,3,4,7,8-HxCDF	J	10.4		pg/g	4.93	99.4
57117-44-9	1,2,3,6,7,8-HxCDF	U	4.23		pg/g	4.23	99.4
60851-34-5	2,3,4,6,7,8-HxCDF	U	4.69		pg/g	4.69	99.4
72918-21-9	1,2,3,7,8,9-HxCDF	U	5.67		pg/g	5.67	99.4
67562-39-4	1,2,3,4,6,7,8-HpCDF	J	19.6		pg/g	3.12	99.4
55673-89-7	1,2,3,4,7,8,9-HpCDF	U	4.27		pg/g	4.27	99.4
39001-02-0	1,2,3,4,6,7,8,9-OCDF	J	22.8		pg/g	7.67	199
41903-57-5	Total Tetrachlorodibenzo-p-dioxin	U	5.92		pg/g	5.92	19.9
36088-22-9	Total Pentachlorodibenzo-p-dioxin	U	4.33	4.46	pg/g	4.33	99.4
34465-46-8	Total Hexachlorodibenzo-p-dioxin		348	359	pg/g	4.18	99.4
37871-00-4	Total Heptachlorodibenzo-p-dioxin		3220		pg/g	7.81	99.4
30402-14-3	Total Tetrachlorodibenzofuran	U	3.26		pg/g	3.26	19.9
30402-15-4	Total Pentachlorodibenzofuran	J	5.07		pg/g	2.80	99.4
55684-94-1	Total Hexachlorodibenzofuran	J	35.9	48.7	pg/g	4.23	99.4
38998-75-3	Total Heptachlorodibenzofuran	J	38.4		pg/g	3.12	99.4
3333-30-0	TEQ WHO2005 ND=0		25.8	31.4	pg/g		
3333-30-1	TEQ WHO2005 ND=0.5		33.0	36.2	pg/g		

Surrogate/Tracer recovery	Qual	Result	Nominal	Units	Recovery%	Acceptable Limits
13C-2,3,7,8-TCDD		147	199	pg/g	73.8	(40%-135%)
13C-1,2,3,7,8-PeCDD		105	199	pg/g	52.9	(40%-135%)
13C-1,2,3,6,7,8-HxCDD		218	199	pg/g	109	(40%-135%)
13C-1,2,3,4,6,7,8-HpCDD		247	199	pg/g	124	(40%-135%)
13C-OCDD		430	398	pg/g	108	(40%-135%)
13C-2,3,7,8-TCDF		154	199	pg/g	77.5	(40%-135%)
13C-1,2,3,7,8-PeCDF		110	199	pg/g	55.3	(40%-135%)
13C-1,2,3,6,7,8-HxCDF		180	199	pg/g	90.4	(40%-135%)
13C-1,2,3,4,6,7,8-HpCDF		235	199	pg/g	118	(40%-135%)

Comments:

J Value is estimated
K Estimated Maximum Possible Concentration
Q Quantitative Interference
U Analyte was analyzed for , but not detected above the specified detection limit.

Hi-Res Dioxins/Furans
Certificate of Analysis
Sample Summary

SDG Number:	**1109191**	**Client:**	**EMPI001**	**Project:**	**EMPI00311**
Lab Sample ID:	**2818003**	**Date Collected:**	**09/22/2011 10:55**	**Matrix:**	**SOLID**
Client Sample:	**8290 Soil**	**Date Received:**	**09/27/2011 11:45**	**%Moisture:**	**15.6**
Client ID:	**FLC-4-SBC-0204-092211**			**Prep Basis:**	**Dry Weight**
Batch ID:	**19680**	**Method:**	**SW846 8290A**		
Run Date:	**10/10/2011 18:32**	**Analyst:**	**MJC**	**Instrument:**	**HRP763**
Data File:	**b10oct11a-8**			**Dilution:**	**1**
Prep Batch:	**19663**	**Prep Method:**	**SW846 3540C**		
Prep Date:	**04-OCT-11**	**Aliquot:**	**13.25 g**		

CAS No.	Parmname	Qual	Result	EMPC	Units	EDL	PQL
1746-01-6	2,3,7,8-TCDD	U	.331		pg/g	0.331	0.894
40321-76-4	1,2,3,7,8-PeCDD	J	0.570		pg/g	0.309	4.47
39227-28-6	1,2,3,4,7,8-HxCDD	J	2.53		pg/g	0.341	4.47
57653-85-7	1,2,3,6,7,8-HxCDD		4.89		pg/g	0.316	4.47
19408-74-3	1,2,3,7,8,9-HxCDD		4.96		pg/g	0.354	4.47
35822-46-9	1,2,3,4,6,7,8-HpCDD		238		pg/g	0.853	4.47
3268-87-9	1,2,3,4,6,7,8,9-OCDD		1580		pg/g	1.27	8.94
51207-31-9	2,3,7,8-TCDF	U	.24		pg/g	0.240	0.894
57117-41-6	1,2,3,7,8-PeCDF	U	.341		pg/g	0.341	4.47
57117-31-4	2,3,4,7,8-PeCDF	U	.349		pg/g	0.349	4.47
70648-26-9	1,2,3,4,7,8-HxCDF	J	1.24		pg/g	0.277	4.47
57117-44-9	1,2,3,6,7,8-HxCDF	JK		0.241	pg/g	0.238	4.47
60851-34-5	2,3,4,6,7,8-HxCDF	J	0.418		pg/g	0.263	4.47
72918-21-9	1,2,3,7,8,9-HxCDF	U	.316		pg/g	0.316	4.47
67562-39-4	1,2,3,4,6,7,8-HpCDF	J	2.46		pg/g	0.270	4.47
55673-89-7	1,2,3,4,7,8,9-HpCDF	U	.37		pg/g	0.370	4.47
39001-02-0	1,2,3,4,6,7,8,9-OCDF	J	2.60		pg/g	0.661	8.94
41903-57-5	Total Tetrachlorodibenzo-p-dioxin	U	.331		pg/g	0.331	0.894
36088-22-9	Total Pentachlorodibenzo-p-dioxin	J	0.570	2.01	pg/g	0.309	4.47
34465-46-8	Total Hexachlorodibenzo-p-dioxin		57.4	61.0	pg/g	0.316	4.47
37871-00-4	Total Heptachlorodibenzo-p-dioxin		465		pg/g	0.853	4.47
30402-14-3	Total Tetrachlorodibenzofuran	U	.24		pg/g	0.240	0.894
30402-15-4	Total Pentachlorodibenzofuran	J	0.450	1.30	pg/g	0.176	4.47
55684-94-1	Total Hexachlorodibenzofuran		6.97	7.21	pg/g	0.238	4.47
38998-75-3	Total Heptachlorodibenzofuran		5.81		pg/g	0.270	4.47
3333-30-0	TEQ WHO2005 ND=0		4.85	4.87	pg/g		
3333-30-1	TEQ WHO2005 ND=0.5		5.11	5.13	pg/g		

Surrogate/Tracer recovery	Qual	Result	Nominal	Units	Recovery%	Acceptable Limits
13C-2,3,7,8-TCDD		143	179	pg/g	80.0	(40%-135%)
13C-1,2,3,7,8-PeCDD		138	179	pg/g	77.4	(40%-135%)
13C-1,2,3,6,7,8-HxCDD		130	179	pg/g	72.5	(40%-135%)
13C-1,2,3,4,6,7,8-HpCDD		154	179	pg/g	86.1	(40%-135%)
13C-OCDD		279	358	pg/g	78.0	(40%-135%)
13C-2,3,7,8-TCDF		147	179	pg/g	82.1	(40%-135%)
13C-1,2,3,7,8-PeCDF		121	179	pg/g	67.5	(40%-135%)
13C-1,2,3,6,7,8-HxCDF		117	179	pg/g	65.2	(40%-135%)
13C-1,2,3,4,6,7,8-HpCDF		134	179	pg/g	75.0	(40%-135%)

Comments:

J Value is estimated

K Estimated Maximum Possible Concentration

U Analyte was analyzed for , but not detected above the specified detection limit.

Hi-Res Dioxins/Furans
Certificate of Analysis
Sample Summary

SDG Number:	**1109191**	**Client:**	**EMPI001**	**Project:**	**EMPI00311**
Lab Sample ID:	**2818004**	**Date Collected:**	**09/22/2011 11:15**	**Matrix:**	**WATER**
Client Sample:	**8290 Water**	**Date Received:**	**09/27/2011 11:45**		
Client ID:	**FLC-4-RB01-092211**			**Prep Basis:**	**As Received**
Batch ID:	**19685**	**Method:**	**SW846 8290A**		
Run Date:	**10/11/2011 05:04**	**Analyst:**	**MJC**	**Instrument:**	**HRP763**
Data File:	**b10oct11a_2-7**			**Dilution:**	**1**
Prep Batch:	**19665**	**Prep Method:**	**SW846 3520C**		
Prep Date:	**04-OCT-11**	**Aliquot:**	**1043.5 mL**		

CAS No.	Parmname	Qual	Result	EMPC	Units	EDL	PQL
1746-01-6	2,3,7,8-TCDD	U	2.18		pg/L	2.18	9.58
40321-76-4	1,2,3,7,8-PeCDD	U	1.17		pg/L	1.17	47.9
39227-28-6	1,2,3,4,7,8-HxCDD	U	1.2		pg/L	1.20	47.9
57653-85-7	1,2,3,6,7,8-HxCDD	U	1.11		pg/L	1.11	47.9
19408-74-3	1,2,3,7,8,9-HxCDD	U	1.24		pg/L	1.24	47.9
35822-46-9	1,2,3,4,6,7,8-HpCDD	U	1.54		pg/L	1.54	47.9
3268-87-9	1,2,3,4,6,7,8,9-OCDD	JK		3.93	pg/L	2.49	95.8
51207-31-9	2,3,7,8-TCDF	U	1.31		pg/L	1.31	9.58
57117-41-6	1,2,3,7,8-PeCDF	U	1.57		pg/L	1.57	47.9
57117-31-4	2,3,4,7,8-PeCDF	U	1.6		pg/L	1.60	47.9
70648-26-9	1,2,3,4,7,8-HxCDF	U	.947		pg/L	0.947	47.9
57117-44-9	1,2,3,6,7,8-HxCDF	U	.813		pg/L	0.813	47.9
60851-34-5	2,3,4,6,7,8-HxCDF	U	.901		pg/L	0.901	47.9
72918-21-9	1,2,3,7,8,9-HxCDF	U	1.09		pg/L	1.09	47.9
67562-39-4	1,2,3,4,6,7,8-HpCDF	U	.912		pg/L	0.912	47.9
55673-89-7	1,2,3,4,7,8,9-HpCDF	U	1.25		pg/L	1.25	47.9
39001-02-0	1,2,3,4,6,7,8,9-OCDF	U	2.01		pg/L	2.01	95.8
41903-57-5	Total Tetrachlorodibenzo-p-dioxin	U	2.18		pg/L	2.18	9.58
36088-22-9	Total Pentachlorodibenzo-p-dioxin	U	1.17		pg/L	1.17	47.9
34465-46-8	Total Hexachlorodibenzo-p-dioxin	U	1.11		pg/L	1.11	47.9
37871-00-4	Total Heptachlorodibenzo-p-dioxin	U	1.54		pg/L	1.54	47.9
30402-14-3	Total Tetrachlorodibenzofuran	U	1.31		pg/L	1.31	9.58
30402-15-4	Total Pentachlorodibenzofuran	U	1.57		pg/L	1.57	47.9
55684-94-1	Total Hexachlorodibenzofuran	U	.813		pg/L	0.813	47.9
38998-75-3	Total Heptachlorodibenzofuran	U	.912		pg/L	0.912	47.9
3333-30-0	TEQ WHO2005 ND=0		0.00	0.00118	pg/L		
3333-30-1	TEQ WHO2005 ND=0.5		2.39	2.39	pg/L		

Surrogate/Tracer recovery	Qual	Result	Nominal	Units	Recovery%	Acceptable Limits
13C-2,3,7,8-TCDD		1410	1920	pg/L	73.4	(40%-135%)
13C-1,2,3,7,8-PeCDD		1420	1920	pg/L	74.0	(40%-135%)
13C-1,2,3,6,7,8-HxCDD		1370	1920	pg/L	71.4	(40%-135%)
13C-1,2,3,4,6,7,8-HpCDD		1840	1920	pg/L	96.1	(40%-135%)
13C-OCDD		3550	3830	pg/L	92.5	(40%-135%)
13C-2,3,7,8-TCDF		1440	1920	pg/L	75.2	(40%-135%)
13C-1,2,3,7,8-PeCDF		1210	1920	pg/L	63.1	(40%-135%)
13C-1,2,3,6,7,8-HxCDF		1140	1920	pg/L	59.6	(40%-135%)
13C-1,2,3,4,6,7,8-HpCDF		1320	1920	pg/L	68.7	(40%-135%)

Comments:

J Value is estimated

K Estimated Maximum Possible Concentration

U Analyte was analyzed for , but not detected above the specified detection limit.

Quality Control Summary

Hi-Res Dioxins/Furans
Surrogate Recovery Report

SDG Number: 1109191

Matrix Type: LIQUID

Sample ID	Client ID	Surrogate	QUAL	Recovery (%)	Acceptance Limits
12004403	LCS for batch 19665	13C-2,3,7,8-TCDD		78.6	(40%-135%)
		13C-1,2,3,7,8-PeCDD		80.5	(40%-135%)
		13C-1,2,3,6,7,8-HxCDD		73.7	(40%-135%)
		13C-1,2,3,4,6,7,8-HpCDD		96.4	(40%-135%)
		13C-OCDD		88.9	(40%-135%)
		13C-2,3,7,8-TCDF		78.0	(40%-135%)
		13C-1,2,3,7,8-PeCDF		68.3	(40%-135%)
		13C-1,2,3,6,7,8-HxCDF		59.7	(40%-135%)
		13C-1,2,3,4,6,7,8-HpCDF		61.7	(40%-135%)
12004404	LCSD for batch 19665	13C-2,3,7,8-TCDD		73.5	(40%-135%)
		13C-1,2,3,7,8-PeCDD		75.3	(40%-135%)
		13C-1,2,3,6,7,8-HxCDD		68.6	(40%-135%)
		13C-1,2,3,4,6,7,8-HpCDD		92.4	(40%-135%)
		13C-OCDD		89.6	(40%-135%)
		13C-2,3,7,8-TCDF		74.3	(40%-135%)
		13C-1,2,3,7,8-PeCDF		64.3	(40%-135%)
		13C-1,2,3,6,7,8-HxCDF		53.9	(40%-135%)
		13C-1,2,3,4,6,7,8-HpCDF		55.8	(40%-135%)
12004405	MB for batch 19665	13C-2,3,7,8-TCDD		77.3	(40%-135%)
		13C-1,2,3,7,8-PeCDD		79.9	(40%-135%)
		13C-1,2,3,6,7,8-HxCDD		74.2	(40%-135%)
		13C-1,2,3,4,6,7,8-HpCDD		101	(40%-135%)
		13C-OCDD		99.1	(40%-135%)
		13C-2,3,7,8-TCDF		79.1	(40%-135%)
		13C-1,2,3,7,8-PeCDF		69.2	(40%-135%)
		13C-1,2,3,6,7,8-HxCDF		62.5	(40%-135%)
		13C-1,2,3,4,6,7,8-HpCDF		76.3	(40%-135%)
2818004	FLC-4-RB01-092211	13C-2,3,7,8-TCDD		73.4	(40%-135%)
		13C-1,2,3,7,8-PeCDD		74.0	(40%-135%)
		13C-1,2,3,6,7,8-HxCDD		71.4	(40%-135%)
		13C-1,2,3,4,6,7,8-HpCDD		96.1	(40%-135%)
		13C-OCDD		92.5	(40%-135%)
		13C-2,3,7,8-TCDF		75.2	(40%-135%)
		13C-1,2,3,7,8-PeCDF		63.1	(40%-135%)
		13C-1,2,3,6,7,8-HxCDF		59.6	(40%-135%)
		13C-1,2,3,4,6,7,8-HpCDF		68.7	(40%-135%)

* Recovery outside Acceptance Limits
# Column to be used to flag recovery values
D Sample Diluted

Hi-Res Dioxins/Furans
Surrogate Recovery Report

SDG Number: 1109191

Matrix Type: SOLID

Sample ID	Client ID	Surrogate	QUAL	Recovery (%)	Acceptance Limits
12004340	LCS for batch 19663	13C-2,3,7,8-TCDD		74.5	(40%-135%)
		13C-1,2,3,7,8-PeCDD		72.7	(40%-135%)
		13C-1,2,3,6,7,8-HxCDD		70.4	(40%-135%)
		13C-1,2,3,4,6,7,8-HpCDD		76.9	(40%-135%)
		13C-OCDD		63.0	(40%-135%)
		13C-2,3,7,8-TCDF		73.8	(40%-135%)
		13C-1,2,3,7,8-PeCDF		57.3	(40%-135%)
		13C-1,2,3,6,7,8-HxCDF		57.0	(40%-135%)
		13C-1,2,3,4,6,7,8-HpCDF		64.6	(40%-135%)
12004341	LCSD for batch 19663	13C-2,3,7,8-TCDD		75.4	(40%-135%)
		13C-1,2,3,7,8-PeCDD		73.5	(40%-135%)
		13C-1,2,3,6,7,8-HxCDD		72.2	(40%-135%)
		13C-1,2,3,4,6,7,8-HpCDD		76.5	(40%-135%)
		13C-OCDD		62.3	(40%-135%)
		13C-2,3,7,8-TCDF		78.3	(40%-135%)
		13C-1,2,3,7,8-PeCDF		62.0	(40%-135%)
		13C-1,2,3,6,7,8-HxCDF		60.5	(40%-135%)
		13C-1,2,3,4,6,7,8-HpCDF		66.8	(40%-135%)
12004342	MB for batch 19663	13C-2,3,7,8-TCDD		81.7	(40%-135%)
		13C-1,2,3,7,8-PeCDD		75.4	(40%-135%)
		13C-1,2,3,6,7,8-HxCDD		73.2	(40%-135%)
		13C-1,2,3,4,6,7,8-HpCDD		81.4	(40%-135%)
		13C-OCDD		62.9	(40%-135%)
		13C-2,3,7,8-TCDF		83.1	(40%-135%)
		13C-1,2,3,7,8-PeCDF		62.5	(40%-135%)
		13C-1,2,3,6,7,8-HxCDF		61.8	(40%-135%)
		13C-1,2,3,4,6,7,8-HpCDF		64.8	(40%-135%)
2818001	FLC-4-SSC-0006-092211	13C-2,3,7,8-TCDD		84.3	(40%-135%)
		13C-1,2,3,7,8-PeCDD		62.1	(40%-135%)
		13C-1,2,3,6,7,8-HxCDD		87.6	(40%-135%)
		13C-1,2,3,4,6,7,8-HpCDD		109	(40%-135%)
		13C-OCDD		116	(40%-135%)
		13C-2,3,7,8-TCDF		85.9	(40%-135%)
		13C-1,2,3,7,8-PeCDF		67.6	(40%-135%)
		13C-1,2,3,6,7,8-HxCDF		75.6	(40%-135%)
		13C-1,2,3,4,6,7,8-HpCDF		96.5	(40%-135%)
12004343	FLC-4-SSC-0006-092211(2818001MS)	13C-2,3,7,8-TCDD		83.2	(40%-135%)
		13C-1,2,3,7,8-PeCDD		77.5	(40%-135%)
		13C-1,2,3,6,7,8-HxCDD		66.6	(40%-135%)
		13C-1,2,3,4,6,7,8-HpCDD		89.6	(40%-135%)
		13C-OCDD		89.8	(40%-135%)
		13C-2,3,7,8-TCDF		87.0	(40%-135%)
		13C-1,2,3,7,8-PeCDF		68.0	(40%-135%)
		13C-1,2,3,6,7,8-HxCDF		55.1	(40%-135%)
		13C-1,2,3,4,6,7,8-HpCDF		75.8	(40%-135%)
12004344	FLC-4-SSC-0006-092211(2818001MSD)	13C-2,3,7,8-TCDD		84.5	(40%-135%)
		13C-1,2,3,7,8-PeCDD		77.4	(40%-135%)
		13C-1,2,3,6,7,8-HxCDD		66.6	(40%-135%)
		13C-1,2,3,4,6,7,8-HpCDD		88.6	(40%-135%)
		13C-OCDD		88.1	(40%-135%)
		13C-2,3,7,8-TCDF		85.3	(40%-135%)
		13C-1,2,3,7,8-PeCDF		68.8	(40%-135%)
		13C-1,2,3,6,7,8-HxCDF		50.9	(40%-135%)

Hi-Res Dioxins/Furans
Surrogate Recovery Report

SDG Number: 1109191

Matrix Type: SOLID

Sample ID	Client ID	Surrogate	QUAL	Recovery (%)	Acceptance Limits
12004344	FLC-4-SSC-0006-092211(2818001MSD)	13C-1,2,3,4,6,7,8-HpCDF		74.6	(40%-135%)
2818003	FLC-4-SBC-0204-092211	13C-2,3,7,8-TCDD		80.0	(40%-135%)
		13C-1,2,3,7,8-PeCDD		77.4	(40%-135%)
		13C-1,2,3,6,7,8-HxCDD		72.5	(40%-135%)
		13C-1,2,3,4,6,7,8-HpCDD		86.1	(40%-135%)
		13C-OCDD		78.0	(40%-135%)
		13C-2,3,7,8-TCDF		82.1	(40%-135%)
		13C-1,2,3,7,8-PeCDF		67.5	(40%-135%)
		13C-1,2,3,6,7,8-HxCDF		65.2	(40%-135%)
		13C-1,2,3,4,6,7,8-HpCDF		75.0	(40%-135%)
2818002	FLC-4-SSC-0624-092211	13C-2,3,7,8-TCDD		73.8 D	(40%-135%)
		13C-1,2,3,7,8-PeCDD		52.9 D	(40%-135%)
		13C-1,2,3,6,7,8-HxCDD		109 D	(40%-135%)
		13C-1,2,3,4,6,7,8-HpCDD		124 D	(40%-135%)
		13C-OCDD		108 D	(40%-135%)
		13C-2,3,7,8-TCDF		77.5 D	(40%-135%)
		13C-1,2,3,7,8-PeCDF		55.3 D	(40%-135%)
		13C-1,2,3,6,7,8-HxCDF		90.4 D	(40%-135%)
		13C-1,2,3,4,6,7,8-HpCDF		118 D	(40%-135%)

* Recovery outside Acceptance Limits
# Column to be used to flag recovery values
D Sample Diluted

Hi-Res Dioxins/Furans

Quality Control Summary
Spike Recovery Report

SDG Number: 1109191
Client ID: LCS for batch 19663
Lab Sample ID: 12004340
Instrument: HRP763
Analyst: MJC

Sample Type: Laboratory Control Sample
Matrix: SOLID
Analysis Date: 10/10/2011 14:05
Dilution: 1
Prep Batch ID: 19663
Batch ID: 19680

CAS No.		Parmname	Amount Added pg/g	Spike Conc. pg/g	Recovery %	Acceptance Limits
1746-01-6	LCS	2,3,7,8-TCDD	20.0	20.7	104	70-130
40321-76-4	LCS	1,2,3,7,8-PeCDD	100	99.3	99.3	70-130
39227-28-6	LCS	1,2,3,4,7,8-HxCDD	100	101	101	70-130
57653-85-7	LCS	1,2,3,6,7,8-HxCDD	100	103	103	70-130
19408-74-3	LCS	1,2,3,7,8,9-HxCDD	100	115	115	70-130
35822-46-9	LCS	1,2,3,4,6,7,8-HpCDD	100	102	102	70-130
3268-87-9	LCS	1,2,3,4,6,7,8,9-OCDD	200	210	105	70-130
51207-31-9	LCS	2,3,7,8-TCDF	20.0	19.3	96.7	70-130
57117-41-6	LCS	1,2,3,7,8-PeCDF	100	111	111	70-130
57117-31-4	LCS	2,3,4,7,8-PeCDF	100	112	112	70-130
70648-26-9	LCS	1,2,3,4,7,8-HxCDF	100	110	110	70-130
57117-44-9	LCS	1,2,3,6,7,8-HxCDF	100	120	120	70-130
72918-21-9	LCS	1,2,3,7,8,9-HxCDF	100	110	110	70-130
60851-34-5	LCS	2,3,4,6,7,8-HxCDF	100	114	114	70-130
67562-39-4	LCS	1,2,3,4,6,7,8-HpCDF	100	114	114	70-130
55673-89-7	LCS	1,2,3,4,7,8,9-HpCDF	100	96.6	96.6	70-130
39001-02-0	LCS	1,2,3,4,6,7,8,9-OCDF	200	183	91.4	70-130

Hi-Res Dioxins/Furans

Quality Control Summary
Spike Recovery Report

SDG Number: 1109191
Client ID: LCSD for batch 19663
Lab Sample ID: 12004341
Instrument: HRP763
Analyst: MJC

Sample Type: Laboratory Control Sample Duplicate
Matrix: SOLID
Analysis Date: 10/10/2011 14:49
Dilution: 1
Prep Batch ID: 19663
Batch ID: 19680

CAS No.		Parmname	Amount Added pg/g	Spike Conc. pg/g	Recovery %	Acceptance Limits	RPD %	Acceptance Limits
1746-01-6	LCSD	2,3,7,8-TCDD	20.0	19.9	99.7	70-130	3.93	0-20
40321-76-4	LCSD	1,2,3,7,8-PeCDD	100	101	101	70-130	1.98	0-20
39227-28-6	LCSD	1,2,3,4,7,8-HxCDD	100	99.1	99.1	70-130	2.13	0-20
57653-85-7	LCSD	1,2,3,6,7,8-HxCDD	100	111	111	70-130	7.65	0-20
19408-74-3	LCSD	1,2,3,7,8,9-HxCDD	100	119	119	70-130	3.69	0-20
35822-46-9	LCSD	1,2,3,4,6,7,8-HpCDD	100	102	102	70-130	0.361	0-20
3268-87-9	LCSD	1,2,3,4,6,7,8,9-OCDD	200	215	107	70-130	2.12	0-20
51207-31-9	LCSD	2,3,7,8-TCDF	20.0	18.7	93.4	70-130	3.52	0-20
57117-41-6	LCSD	1,2,3,7,8-PeCDF	100	106	106	70-130	4.64	0-20
57117-31-4	LCSD	2,3,4,7,8-PeCDF	100	109	109	70-130	3.14	0-20
70648-26-9	LCSD	1,2,3,4,7,8-HxCDF	100	105	105	70-130	4.82	0-20
57117-44-9	LCSD	1,2,3,6,7,8-HxCDF	100	116	116	70-130	3.40	0-20
72918-21-9	LCSD	1,2,3,7,8,9-HxCDF	100	109	109	70-130	1.59	0-20
60851-34-5	LCSD	2,3,4,6,7,8-HxCDF	100	111	111	70-130	2.13	0-20
67562-39-4	LCSD	1,2,3,4,6,7,8-HpCDF	100	112	112	70-130	2.18	0-20
55673-89-7	LCSD	1,2,3,4,7,8,9-HpCDF	100	96.3	96.3	70-130	0.265	0-20
39001-02-0	LCSD	1,2,3,4,6,7,8,9-OCDF	200	193	96.5	70-130	5.33	0-20

Hi-Res Dioxins/Furans

Quality Control Summary
Spike Recovery Report

SDG Number:	**1109191**	**Sample Type:**	**Matrix Spike**	
Client ID:	**FLC-4-SSC-0006-092211(2818001MS)**	**Matrix:**	**SOLID**	
Lab Sample ID:	**12004343**	**%Moisture:**	**13**	
Instrument:	**HRP763**	**Analysis Date:**	**10/10/2011 17:03**	**Dilution: 1**
Analyst:	**MJC**	**Prep Batch ID:**	**19663**	
		Batch ID:	**19680**	

CAS No.		Parmname	Amount Added pg/g		Spike Conc. pg/g	Recovery %	Acceptance Limits
1746-01-6	MS	2,3,7,8-TCDD	17.9	U	18.3	102	70-130
40321-76-4	MS	1,2,3,7,8-PeCDD	89.4		92.6	98.2	70-130
39227-28-6	MS	1,2,3,4,7,8-HxCDD	89.4		136	138 *	70-130
57653-85-7	MS	1,2,3,6,7,8-HxCDD	89.4		116	91	70-130
19408-74-3	MS	1,2,3,7,8,9-HxCDD	89.4		143	135 *	70-130
35822-46-9	MS	1,2,3,4,6,7,8-HpCDD	89.4		1590	-85 *	70-130
3268-87-9	MS	1,2,3,4,6,7,8,9-OCDD	179	E	10100	-524 *	70-130
51207-31-9	MS	2,3,7,8-TCDF	17.9	U	16.7	93.3	70-130
57117-41-6	MS	1,2,3,7,8-PeCDF	89.4	U	88.4	98.9	70-130
57117-31-4	MS	2,3,4,7,8-PeCDF	89.4	J	92.4	103	70-130
70648-26-9	MS	1,2,3,4,7,8-HxCDF	89.4		127	132 *	70-130
57117-44-9	MS	1,2,3,6,7,8-HxCDF	89.4	JK	95.0	105	70-130
72918-21-9	MS	1,2,3,7,8,9-HxCDF	89.4	U	64.9	72.6	70-130
60851-34-5	MS	2,3,4,6,7,8-HxCDF	89.4	J	97.3	106	70-130
67562-39-4	MS	1,2,3,4,6,7,8-HpCDF	89.4		106	97.5	70-130
55673-89-7	MS	1,2,3,4,7,8,9-HpCDF	89.4	J	97.9	107	70-130
39001-02-0	MS	1,2,3,4,6,7,8,9-OCDF	179		194	97.8	70-130

Hi-Res Dioxins/Furans

Quality Control Summary
Spike Recovery Report

SDG Number:	**1109191**	**Sample Type:**	**Matrix Spike Duplicate**	
Client ID:	**FLC-4-SSC-0006-092211(2818001MSD)**	**Matrix:**	**SOLID**	
Lab Sample ID:	**12004344**	**%Moisture:**	**13**	
Instrument:	**HRP763**	**Analysis Date:**	**10/10/2011 17:47**	**Dilution: 1**
Analyst:	**MJC**	**Prep Batch ID:**	**19663**	
		Batch ID:	**19680**	

CAS No.		Parmname	Amount Added pg/g		Spike Conc. pg/g	Recovery %	Acceptance Limits	RPD %	Acceptance Limits
1746-01-6	MSD	2,3,7,8-TCDD	17.5	U	17.4	99.5	70-130	4.62	0-20
40321-76-4	MSD	1,2,3,7,8-PeCDD	87.6		91.6	99.2	70-130	1.03	0-20
39227-28-6	MSD	1,2,3,4,7,8-HxCDD	87.6		127	130	70-130	6.93	0-20
57653-85-7	MSD	1,2,3,6,7,8-HxCDD	87.6		116	93.8	70-130	0.706	0-20
19408-74-3	MSD	1,2,3,7,8,9-HxCDD	87.6		142	137 *	70-130	0.582	0-20
35822-46-9	MSD	1,2,3,4,6,7,8-HpCDD	87.6		1590	-93.9 *	70-130	0.389	0-20
3268-87-9	MSD	1,2,3,4,6,7,8,9-OCDD	175	E	9930	-617 *	70-130	1.44	0-20
51207-31-9	MSD	2,3,7,8-TCDF	17.5	U	16.6	94.6	70-130	0.695	0-20
57117-41-6	MSD	1,2,3,7,8-PeCDF	87.6	U	87.2	99.6	70-130	1.38	0-20
57117-31-4	MSD	2,3,4,7,8-PeCDF	87.6	J	90.4	102	70-130	2.13	0-20
70648-26-9	MSD	1,2,3,4,7,8-HxCDF	87.6		145	156 *	70-130	13.6	0-20
57117-44-9	MSD	1,2,3,6,7,8-HxCDF	87.6	JK	91.0	102	70-130	4.30	0-20
72918-21-9	MSD	1,2,3,7,8,9-HxCDF	87.6	U	59.0	67.4 *	70-130	9.55	0-20
60851-34-5	MSD	2,3,4,6,7,8-HxCDF	87.6	J	105	117	70-130	7.33	0-20
67562-39-4	MSD	1,2,3,4,6,7,8-HpCDF	87.6		105	98.3	70-130	1.00	0-20
55673-89-7	MSD	1,2,3,4,7,8,9-HpCDF	87.6	J	100	112	70-130	2.42	0-20
39001-02-0	MSD	1,2,3,4,6,7,8,9-OCDF	175		188	96.7	70-130	2.88	0-20

Hi-Res Dioxins/Furans

Quality Control Summary
Spike Recovery Report

SDG Number: 1109191
Client ID: LCS for batch 19665
Lab Sample ID: 12004403
Instrument: HRP763
Analyst: MJC

Sample Type: Laboratory Control Sample
Matrix: WATER
Analysis Date: 10/11/2011 00:37
Dilution: 1
Prep Batch ID: 19665
Batch ID: 19685

CAS No.		Parmname	Amount Added pg/L	Spike Conc. pg/L	Recovery %	Acceptance Limits
1746-01-6	LCS	2,3,7,8-TCDD	200	198	99	70-130
40321-76-4	LCS	1,2,3,7,8-PeCDD	1000	989	98.9	70-130
39227-28-6	LCS	1,2,3,4,7,8-HxCDD	1000	1030	103	70-130
57653-85-7	LCS	1,2,3,6,7,8-HxCDD	1000	1050	105	70-130
19408-74-3	LCS	1,2,3,7,8,9-HxCDD	1000	1150	115	70-130
35822-46-9	LCS	1,2,3,4,6,7,8-HpCDD	1000	986	98.6	70-130
3268-87-9	LCS	1,2,3,4,6,7,8,9-OCDD	2000	2090	104	70-130
51207-31-9	LCS	2,3,7,8-TCDF	200	191	95.6	70-130
57117-41-6	LCS	1,2,3,7,8-PeCDF	1000	1070	107	70-130
57117-31-4	LCS	2,3,4,7,8-PeCDF	1000	1050	105	70-130
70648-26-9	LCS	1,2,3,4,7,8-HxCDF	1000	1040	104	70-130
57117-44-9	LCS	1,2,3,6,7,8-HxCDF	1000	1070	107	70-130
72918-21-9	LCS	1,2,3,7,8,9-HxCDF	1000	976	97.6	70-130
60851-34-5	LCS	2,3,4,6,7,8-HxCDF	1000	1070	107	70-130
67562-39-4	LCS	1,2,3,4,6,7,8-HpCDF	1000	1070	107	70-130
55673-89-7	LCS	1,2,3,4,7,8,9-HpCDF	1000	1180	118	70-130
39001-02-0	LCS	1,2,3,4,6,7,8,9-OCDF	2000	1630	81.6	70-130

Hi-Res Dioxins/Furans

Quality Control Summary
Spike Recovery Report

SDG Number: 1109191
Client ID: LCSD for batch 19665
Lab Sample ID: 12004404
Instrument: HRP763
Analyst: MJC

Sample Type: Laboratory Control Sample Duplicate
Matrix: WATER
Analysis Date: 10/11/2011 01:21
Dilution: 1
Prep Batch ID: 19665
Batch ID: 19685

CAS No.		Parmname	Amount Added pg/L	Spike Conc. pg/L	Recovery %	Acceptance Limits	RPD %	Acceptance Limits
1746-01-6	LCSD	2,3,7,8-TCDD	200	196	98.2	70-130	0.812	0-20
40321-76-4	LCSD	1,2,3,7,8-PeCDD	1000	976	97.6	70-130	1.28	0-20
39227-28-6	LCSD	1,2,3,4,7,8-HxCDD	1000	1090	109	70-130	5.61	0-20
57653-85-7	LCSD	1,2,3,6,7,8-HxCDD	1000	987	98.7	70-130	6.03	0-20
19408-74-3	LCSD	1,2,3,7,8,9-HxCDD	1000	1190	119	70-130	3.47	0-20
35822-46-9	LCSD	1,2,3,4,6,7,8-HpCDD	1000	988	98.8	70-130	0.186	0-20
3268-87-9	LCSD	1,2,3,4,6,7,8,9-OCDD	2000	2140	107	70-130	2.68	0-20
51207-31-9	LCSD	2,3,7,8-TCDF	200	185	92.4	70-130	3.35	0-20
57117-41-6	LCSD	1,2,3,7,8-PeCDF	1000	1050	105	70-130	1.69	0-20
57117-31-4	LCSD	2,3,4,7,8-PeCDF	1000	1040	104	70-130	1.56	0-20
70648-26-9	LCSD	1,2,3,4,7,8-HxCDF	1000	1010	101	70-130	2.84	0-20
57117-44-9	LCSD	1,2,3,6,7,8-HxCDF	1000	1080	108	70-130	0.479	0-20
72918-21-9	LCSD	1,2,3,7,8,9-HxCDF	1000	965	96.5	70-130	1.12	0-20
60851-34-5	LCSD	2,3,4,6,7,8-HxCDF	1000	1080	108	70-130	1.23	0-20
67562-39-4	LCSD	1,2,3,4,6,7,8-HpCDF	1000	1070	107	70-130	0.301	0-20
55673-89-7	LCSD	1,2,3,4,7,8,9-HpCDF	1000	1180	118	70-130	0.629	0-20
39001-02-0	LCSD	1,2,3,4,6,7,8,9-OCDF	2000	1540	77.1	70-130	5.59	0-20

Method Blank Summary

SDG Number:	**1109191**	**Client:**	**EMPI001**	**Matrix:**	**SOLID**
Client ID:	**MB for batch 19663**	**Instrument ID:**	**HRP763**	**Data File:**	**b10oct11a-4**
Lab Sample ID:	**12004342**	**Prep Date:**	**04-OCT-11**	**Analyzed:**	**10/10/11 15:33**
Column:					

This method blank applies to the following samples and quality control samples:

	Client Sample ID	Lab Sample ID	File ID	Date Analyzed	Time Analyzed
01	LCS for batch 19663	12004340	b10oct11a-2	10/10/11	1405
02	LCSD for batch 19663	12004341	b10oct11a-3	10/10/11	1449
03	FLC-4-SSC-0006-092211	2818001	b10oct11a-5	10/10/11	1618
04	FLC-4-SSC-0006-092211(2818001MS)	12004343	b10oct11a-6	10/10/11	1703
05	FLC-4-SSC-0006-092211(2818001MSD)	12004344	b10oct11a-7	10/10/11	1747
06	FLC-4-SBC-0204-092211	2818003	b10oct11a-8	10/10/11	1832
07	FLC-4-SSC-0624-092211	2818002	b10oct11a-13	10/10/11	2215

Method Blank Summary

SDG Number:	**1109191**	**Client:**	**EMPI001**	**Matrix:**	**WATER**
Client ID:	**MB for batch 19665**	**Instrument ID:**	**HRP763**	**Data File:**	**b10oct11a_2-3**
Lab Sample ID:	**12004405**	**Prep Date:**	**04-OCT-11**	**Analyzed:**	**10/11/11 02:06**
Column:					

This method blank applies to the following samples and quality control samples:

	Client Sample ID	Lab Sample ID	File ID	Date Analyzed	Time Analyzed
01	LCS for batch 19665	12004403	b10oct11a_2-1	10/11/11	0037
02	LCSD for batch 19665	12004404	b10oct11a_2-2	10/11/11	0121
03	FLC-4-RB01-092211	2818004	b10oct11a_2-7	10/11/11	0504

Sample Raw Data

Hi-Res Dioxins/Furans
Certificate of Analysis
Sample Summary

SDG Number:	**1109191**	**Client:**	**EMPI001**	**Project:**	**EMPI00311**
Lab Sample ID:	**2818001**	**Date Collected:**	**09/22/2011 10:45**	**Matrix:**	**SOLID**
Client Sample:	**8290 Soil**	**Date Received:**	**09/27/2011 11:45**	**%Moisture:**	**13**
Client ID:	**FLC-4-SSC-0006-092211**			**Prep Basis:**	**Dry Weight**
Batch ID:	**19680**	**Method:**	**SW846 8290A**		
Run Date:	**10/10/2011 16:18**	**Analyst:**	**MJC**	**Instrument:**	**HRP763**
Data File:	**b10oct11a-5**			**Dilution:**	**1**
Prep Batch:	**19663**	**Prep Method:**	**SW846 3540C**		
Prep Date:	**04-OCT-11**	**Aliquot:**	**12.21 g**		

CAS No.	Parmname	Qual	Result	EMPC	Units	EDL	PQL
1746-01-6	2,3,7,8-TCDD	U	.348		pg/g	0.348	0.941
40321-76-4	1,2,3,7,8-PeCDD		4.73		pg/g	0.401	4.71
39227-28-6	1,2,3,4,7,8-HxCDD		13.4		pg/g	0.587	4.71
57653-85-7	1,2,3,6,7,8-HxCDD		34.3		pg/g	0.544	4.71
19408-74-3	1,2,3,7,8,9-HxCDD		22.3		pg/g	0.608	4.71
35822-46-9	1,2,3,4,6,7,8-HpCDD		1670		pg/g	2.18	4.71
3268-87-9	1,2,3,4,6,7,8,9-OCDD	E	11000		pg/g	1.78	9.41
51207-31-9	2,3,7,8-TCDF	U	.45		pg/g	0.450	0.941
57117-41-6	1,2,3,7,8-PeCDF	U	.672		pg/g	0.672	4.71
57117-31-4	2,3,4,7,8-PeCDF	J	0.706		pg/g	0.687	4.71
70648-26-9	1,2,3,4,7,8-HxCDF		9.11		pg/g	0.472	4.71
57117-44-9	1,2,3,6,7,8-HxCDF	JK		1.54	pg/g	0.407	4.71
60851-34-5	2,3,4,6,7,8-HxCDF	J	2.10		pg/g	0.450	4.71
72918-21-9	1,2,3,7,8,9-HxCDF	U	.544		pg/g	0.544	4.71
67562-39-4	1,2,3,4,6,7,8-HpCDF		18.6		pg/g	0.296	4.71
55673-89-7	1,2,3,4,7,8,9-HpCDF	J	1.80		pg/g	0.407	4.71
39001-02-0	1,2,3,4,6,7,8,9-OCDF		19.1		pg/g	0.422	9.41
41903-57-5	Total Tetrachlorodibenzo-p-dioxin	U	.348		pg/g	0.348	0.941
36088-22-9	Total Pentachlorodibenzo-p-dioxin	Q	17.4	18.9	pg/g	0.401	4.71
34465-46-8	Total Hexachlorodibenzo-p-dioxin	Q	394	402	pg/g	0.544	4.71
37871-00-4	Total Heptachlorodibenzo-p-dioxin	E	3290		pg/g	2.18	4.71
30402-14-3	Total Tetrachlorodibenzofuran		1.76		pg/g	0.450	0.941
30402-15-4	Total Pentachlorodibenzofuran	Q	8.92	9.99	pg/g	0.203	4.71
55684-94-1	Total Hexachlorodibenzofuran	Q	55.1	56.7	pg/g	0.407	4.71
38998-75-3	Total Heptachlorodibenzofuran		40.8		pg/g	0.296	4.71
3333-30-0	TEQ WHO2005 ND=0		33.3	33.4	pg/g		
3333-30-1	TEQ WHO2005 ND=0.5		33.5	33.6	pg/g		

Surrogate/Tracer recovery	Qual	Result	Nominal	Units	Recovery%	Acceptable Limits
13C-2,3,7,8-TCDD		159	188	pg/g	84.3	(40%-135%)
13C-1,2,3,7,8-PeCDD		117	188	pg/g	62.1	(40%-135%)
13C-1,2,3,6,7,8-HxCDD		165	188	pg/g	87.6	(40%-135%)
13C-1,2,3,4,6,7,8-HpCDD		206	188	pg/g	109	(40%-135%)
13C-OCDD		435	376	pg/g	116	(40%-135%)
13C-2,3,7,8-TCDF		162	188	pg/g	85.9	(40%-135%)
13C-1,2,3,7,8-PeCDF		127	188	pg/g	67.6	(40%-135%)
13C-1,2,3,6,7,8-HxCDF		142	188	pg/g	75.6	(40%-135%)
13C-1,2,3,4,6,7,8-HpCDF		182	188	pg/g	96.5	(40%-135%)

Comments:

E Value is estimated - Concentration of the target analyte exceeds the instrument calibration range
J Value is estimated
K Estimated Maximum Possible Concentration
Q Quantitative Interference
U Analyte was analyzed for , but not detected above the specified detection limit.

Quantify Sample Summary Report **MassLynx 4.1**
Method 8290 Quantification Report

Q

Dataset: C:\MassLynx\Default.pro\Sample Results\8290-b10oct11a-5.qld

Last Altered: Tuesday, October 11, 2011 12:02:25 Eastern Standard Time
Printed: Tuesday, October 11, 2011 12:03:05 Eastern Standard Time

HMP
11Oct11

Method: Untitled 10 Oct 2011 14:05:54
Calibration: C:\MassLynx\DEFAULT.PRO\CurveDB\8290-b01nov10b.cdb 02 Nov 2010 08:19:01

Name: b10oct11a-5, Date: 10-Oct-2011, Time: 16:18:26, ID: 2818001-1, Description: 19680, Job: HMS8290_1S, Task: HRP763_1, User: MJC

	Name	Ion1Area	Ion2Area	Response	RT	RRT	RA	Fail?	pg/uL	EDL	Height1	Noise1	S/N1	Height2	Noise2	S/N2	M
1	2378-TCDD	2.99e2	3.84e2	6.83e2	26.62	1.000	0.78	NO	0.180	0.185	4.05e3	949	4.3	3.96e3	1153	3.4	MM
2	12378-PeCDD	3.74e3	2.32e3	6.06e3	32.13	1.000	1.62	NO	2.511	0.213	5.75e4	2763	20.8	2.93e4	1419	20.7	db
3	123478-HxCDD	7.78e3	6.15e3	1.39e4	34.42	0.999	1.26	NO	7.141	0.312	1.68e5	2686	62.6	1.32e5	2745	48.0	dd
4	123678-HxCDD	2.11e4	1.73e4	3.84e4	34.49	1.000	1.22	NO	18.214	0.289	4.54e5	2686	169.0	4.12e5	2745	150.2	dd
5	123789-HxCDD	1.23e4	1.00e4	2.23e4	34.65	1.005	1.23	NO	11.830	0.323	3.45e5	2686	128.5	2.93e5	2745	106.8	db
6	1234678-HpCDD	8.91e5	8.52e5	1.74e6	36.88	1.000	1.05	NO	886.490	1.16	1.48e7	7972	1857.1	1.43e7	7544	1897.9	bb
7	OCDD	4.77e6	5.28e6	1.00e7	40.08	1.001	0.90	NO	5851.908	0.944	6.03e7	3264	18470.4	6.60e7	4803	13748.1	bb
8	2378-TCDF	6.49e2	7.35e2	1.38e3	25.70	1.001	0.88	NO	0.227	0.239	6.69e3	2301	2.9	6.78e3	2196	3.1	MM
9	12378-PeCDF	7.57e2	5.95e2	1.35e3	31.10	1.001	1.27	YES	0.319	0.357	8.19e3	3676	2.2	8.63e3	2725	3.2	bb
10	23478-PeCDF	9.84e2	5.71e2	1.55e3	31.91	1.027	1.72	NO	0.375	0.365	1.84e4	3676	5.0	8.93e3	2725	3.3	MM
11	123478-HxCDF	6.80e3	5.32e3	1.21e4	33.77	0.998	1.28	NO	4.842	0.251	1.48e5	2342	63.3	1.12e5	2948	38.2	dd
12	123678-HxCDF	1.17e3	1.22e3	2.39e3	33.85	1.000	0.96	YES	0.819	0.216	2.72e4	2342	11.6	2.72e4	2948	9.2	db
13	234678-HxCDF	1.61e3	1.33e3	2.94e3	34.27	1.013	1.21	NO	1.118	0.239	1.96e4	2342	8.4	1.57e4	2948	5.3	bb
14	123789-HxCDF							NO		0.289		2342			2948		
15	1234678-HpCDF	1.51e4	1.43e4	2.95e4	35.95	1.000	1.06	NO	9.902	0.157	2.61e5	1651	157.8	2.47e5	1638	150.6	dd
16	1234789-HpCDF	1.01e3	1.07e3	2.07e3	37.33	1.039	0.95	NO	0.957	0.216	1.80e4	1651	10.9	2.30e4	1638	14.1	bb
17	OCDF	1.00e4	1.15e4	2.15e4	40.25	1.005	0.87	NO	10.128	0.224	1.35e5	1010	133.4	1.57e5	1355	115.8	dd
18	13C-2378-TCDD	1.66e5	2.08e5	3.74e5	26.60	1.028	0.80	NO	84.338	0.241	1.25e6	2203	565.9	1.52e6	1329	1140.9	bb
19	13C-12378-PeCDD	1.43e5	9.09e4	2.34e5	32.12	1.241	1.57	NO	62.082	0.218	2.91e6	1274	2281.8	1.78e6	1444	1230.6	db
20	13C-123678-HxCDD	1.22e5	9.59e4	2.18e5	34.48	0.995	1.27	NO	87.612	0.105	2.72e6	1202	2261.5	2.15e6	1924	1115.1	bd
21	13C-1234678-HpCDD	1.01e5	9.51e4	1.96e5	36.87	1.064	1.06	NO	109.401	0.135	1.71e6	1284	1335.6	1.59e6	1595	995.7	bb
22	13C-OCDD	1.62e5	1.83e5	3.45e5	40.06	1.156	0.88	NO	231.043	0.124	2.02e6	995	2025.2	2.26e6	1211	1861.9	bb
23	13C-2378-TCDF	2.74e5	3.46e5	6.20e5	25.68	0.992	0.79	NO	85.865	0.133	2.11e6	1473	1431.9	2.62e6	1696	1546.2	bb
24	13C-12378-PeCDF	2.77e5	1.77e5	4.54e5	31.08	1.201	1.57	NO	67.595	0.255	2.93e6	2496	1173.0	1.88e6	3169	593.5	bd
25	13C-123678-HxCDF	9.48e4	1.81e5	2.75e5	33.84	0.977	0.52	NO	75.604	0.0917	1.99e6	1777	1121.3	3.78e6	2221	1702.5	db
26	13C-1234678-HpCDF	7.15e4	1.61e5	2.33e5	35.94	1.038	0.44	NO	96.517	0.133	1.26e6	1980	634.4	2.70e6	1875	1442.3	db
27	13C-1234-TCDD	1.76e5	2.21e5	3.97e5	25.88	0.000	0.79	NO	100.000	0.269	1.45e6	2203	658.7	1.90e6	1329	1429.0	bb
28	13C-123789-HxCDD	1.23e5	9.99e4	2.23e5	34.64	0.000	1.24	NO	100.000	0.117	3.69e6	1202	3072.1	3.03e6	1924	1576.6	db
29	37Cl-2378-TCDD (SS)									0.146		1729					
30	13C-23478-PeCDF (SS)							NO		0.316		2496			3169		

Quantify Totals Report MassLynx 4.1
Method 8290 Quantification Report

Dataset: C:\MassLynx\Default.pro\Sample Results\8290-b10oct11a-5.qld

Last Altered: Tuesday, October 11, 2011 12:02:25 Eastern Standard Time
Printed: Tuesday, October 11, 2011 12:03:05 Eastern Standard Time

Method: Untitled 10 Oct 2011 14:05:54
Calibration: C:\MassLynx\DEFAULT.PRO\CurveDB\8290-b01nov10b.cdb 02 Nov 2010 08:19:01

Name: b10oct11a-5, Date: 10-Oct-2011, Time: 16:18:26, ID: 2818001-1, Description: 19680, Job: HMS8290_1S, Task: HRP763_1, User: MJC

TD

	Name	Ion1Area	Ion2Area	Response	RT	RA	Fail?	pg/uL	EDL	Height1	Noise1	S/N1	Height2	Noise2	S/N2	M
1	Total-tetradioxins	8.20e1	2.17e2	2.99e2	23.27	0.38	YES	0.079	0.185	2.66e3	949	2.8	4.52e3	1153	3.9	bb
2	Total-tetradioxins	5.20e1	1.50e2	2.02e2	23.87	0.35	YES	0.053	0.185	1.17e3	949	1.2	4.05e3	1153	3.5	bb
3	Total-tetradioxins	2.01e2	1.70e2	3.71e2	24.57	1.18	YES	0.098	0.185	2.62e3	949	2.8	3.37e3	1153	2.9	bd
4	Total-tetradioxins	9.64e1	1.73e2	2.69e2	24.79	0.56	YES	0.071	0.185	1.94e3	949	2.0	4.86e3	1153	4.2	bd
5	Total-tetradioxins	7.51e1	7.99e1	1.55e2	24.96	0.94	YES	0.041	0.185	1.63e3	949	1.7	2.46e3	1153	2.1	bb
6	Total-tetradioxins	5.66e1	5.85e1	1.15e2	25.42	0.97	YES	0.030	0.185	3.68e3	949	3.9	1.45e3	1153	1.3	bb
7	Total-tetradioxins	8.71e1	1.46e2	2.33e2	25.89	0.60	YES	0.062	0.185	2.37e3	949	2.5	4.69e3	1153	4.1	bd
8	Total-tetradioxins	1.77e2	2.66e2	4.44e2	25.93	0.67	NO	0.117	0.185	3.70e3	949	3.9	5.23e3	1153	4.5	dd
9	2378-TCDD	2.99e2	3.84e2	6.83e2	26.62	0.78	NO	0.180	0.185	4.05e3	949	4.3	3.96e3	1153	3.4	MM
10	Total-tetradioxins	6.50e1	7.79e1	1.43e2	26.93	0.83	NO	0.038	0.185	3.86e3	949	4.1	1.95e3	1153	1.7	bd
11	Total-tetradioxins	8.14e1	7.78e1	1.59e2	27.02	1.05	YES	0.042	0.185	1.72e3	949	1.8	2.76e3	1153	2.4	db

PD

	Name	Ion1Area	Ion2Area	Response	RT	RA	Fail?	pg/uL	EDL	Height1	Noise1	S/N1	Height2	Noise2	S/N2	M
1	Total-pentadioxins	2.61e3	1.69e3	4.31e3	30.23	1.54	NO	1.785	0.213	2.79e4	2763	10.1	1.73e4	1419	12.2	bb
2	Total-pentadioxins	2.37e3	1.29e3	3.66e3	30.66	1.84	YES	1.515	0.213	2.17e4	2763	7.8	1.16e4	1419	8.2	bb
3	Total-pentadioxins	1.55e3	1.10e3	2.66e3	31.18	1.41	NO	1.100	0.213	1.95e4	2763	7.1	1.46e4	1419	10.3	MM
4	Total-pentadioxins	4.31e3	2.57e3	6.88e3	31.37	1.68	NO	2.849	0.213	4.59e4	2763	16.6	2.77e4	1419	19.5	dd
5	Total-pentadioxins	3.13e3	1.84e3	4.96e3	31.58	1.70	NO	2.056	0.213	3.93e4	2763	14.2	2.28e4	1419	16.1	db
6	Total-pentadioxins	1.12e3	6.82e2	1.80e3	31.83	1.64	NO	0.747	0.213	2.35e4	2763	8.5	1.44e4	1419	10.2	bb
7	Total-pentadioxins	3.57e2	1.78e2	5.36e2	32.05	2.00	YES	0.222	0.213	1.13e4	2763	4.1	5.68e3	1419	4.0	bd
8	12378-PeCDD	3.74e3	2.32e3	6.06e3	32.13	1.62	NO	2.511	0.213	5.75e4	2763	20.8	2.93e4	1419	20.7	db
9	Total-pentadioxins	8.62e2	4.42e2	1.30e3	32.35	1.95	YES	0.541	0.213	1.93e4	2763	7.0	1.63e4	1419	11.5	bb

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Quantify Totals Report MassLynx 4.1
Method 8290 Quantification Report

Dataset: C:\MassLynx\Default.pro\Sample Results\8290-b10oct11a-5.qld

Last Altered: Tuesday, October 11, 2011 12:02:25 Eastern Standard Time
Printed: Tuesday, October 11, 2011 12:03:05 Eastern Standard Time

Name: b10oct11a-5, Date: 10-Oct-2011, Time: 16:18:26, ID: 2818001-1, Description: 19680, Job: HMS8290_1S, Task: HRP763_1, User: MJC

HD

	Name	Ion1Area	Ion2Area	Response	RT	RA	Fail?	pg/uL	EDL	Height1	Noise1	S/N1	Height2	Noise2	S/N2	M
1	Total-hexadioxins	8.61e3	6.90e3	1.55e4	33.25	1.25	NO	7.830	0.307	1.83e5	2686	68.2	1.48e5	2745	53.9	bd
2	Total-hexadioxins	4.98e4	3.98e4	8.96e4	33.34	1.25	NO	45.271	0.307	1.03e6	2686	383.5	8.05e5	2745	293.3	db
3	Total-hexadioxins	1.62e3	1.53e3	3.15e3	33.60	1.06	NO	1.590	0.307	3.33e4	2686	12.4	2.87e4	2745	10.5	bd
4	Total-hexadioxins	1.17e4	9.94e3	2.17e4	33.74	1.18	NO	10.940	0.307	2.75e5	2686	102.5	2.31e5	2745	84.1	MM
5	Total-hexadioxins	9.43e4	7.68e4	1.71e5	33.92	1.23	NO	86.389	0.307	1.66e6	2686	618.8	1.31e6	2745	476.9	MM
6	Total-hexadioxins	8.96e2	7.10e2	1.61e3	34.27	1.26	NO	0.811	0.307	1.47e4	2686	5.5	1.29e4	2745	4.7	bd
7	Total-hexadioxins	1.37e3	1.05e3	2.41e3	34.34	1.30	NO	1.219	0.307	2.89e4	2686	10.7	1.94e4	2745	7.1	dd
8	123478-HxCDD	7.78e3	6.15e3	1.39e4	34.42	1.26	NO	7.141	0.312	1.68e5	2686	62.6	1.32e5	2745	48.0	dd
9	123678-HxCDD	2.11e4	1.73e4	3.84e4	34.49	1.22	NO	18.214	0.289	4.54e5	2686	169.0	4.12e5	2745	150.2	dd
10	Total-hexadioxins	8.57e3	6.60e3	1.52e4	34.60	1.30	NO	7.662	0.307	2.53e5	2686	94.3	1.58e5	2745	57.4	dd
11	123789-HxCDD	1.23e4	1.00e4	2.23e4	34.65	1.23	NO	11.830	0.323	3.45e5	2686	128.5	2.93e5	2745	106.8	db
12	Total-hexadioxins	7.18e1	7.05e1	1.42e2	35.15	1.02	YES	0.072	0.307	2.46e3	2686	0.9	4.24e3	2745	1.5	bb
13	Total-hexadioxins	1.12e4	8.97e3	2.02e4	33.77	1.25	NO	10.181	0.307	2.76e5	2686	102.8	2.18e5	2745	79.3	MM
14	Total-hexadioxins	5.56e3	3.30e3	8.86e3	33.97	1.69	YES	4.475	0.307	1.60e5	2686	59.7	1.07e5	2745	39.1	MM

HPD

	Name	Ion1Area	Ion2Area	Response	RT	RA	Fail?	pg/uL	EDL	Height1	Noise1	S/N1	Height2	Noise2	S/N2	M
1	Total-heptadioxins	8.63e5	8.33e5	1.70e6	36.20	1.04	NO	862.716	1.16	1.63e7	7972	2042.3	1.57e7	7544	2080.5	bb
2	1234678-HpCDD	8.91e5	8.52e5	1.74e6	36.88	1.05	NO	886.490	1.16	1.48e7	7972	1857.1	1.43e7	7544	1897.9	bb

Quantify Totals Report MassLynx 4.1
Method 8290 Quantification Report

Dataset: C:\MassLynx\Default.pro\Sample Results\8290-b10oct11a-5.qld

Last Altered: Tuesday, October 11, 2011 12:02:25 Eastern Standard Time
Printed: Tuesday, October 11, 2011 12:03:05 Eastern Standard Time

Name: b10oct11a-5, Date: 10-Oct-2011, Time: 16:18:26, ID: 2818001-1, Description: 19680, Job: HMS8290_1S, Task: HRP763_1, User: MJC

	Name	Ion1Area	Ion2Area	Response	RT	RA	Fail?	pg/uL	EDL	Height1	Noise1	S/N1	Height2	Noise2	S/N2	M
1	Total-tetrafurans	5.88e2	5.16e2	1.10e3	21.66	1.14	YES	0.181	0.239	6.90e3	2301	3.0	6.16e3	2196	2.8	MM
2	Total-tetrafurans	4.05e2	6.02e2	1.01e3	22.08	0.67	NO	0.165	0.239	4.15e3	2301	1.8	6.94e3	2196	3.2	MM
3	Total-tetrafurans	7.99e2	1.15e3	1.95e3	22.52	0.70	NO	0.319	0.239	9.19e3	2301	4.0	1.19e4	2196	5.4	bd
4	Total-tetrafurans	7.74e2	1.16e3	1.93e3	22.92	0.67	NO	0.317	0.239	9.50e3	2301	4.1	1.04e4	2196	4.7	MM
5	Total-tetrafurans	4.53e2	7.33e2	1.19e3	23.18	0.62	YES	0.195	0.239	6.89e3	2301	3.0	7.27e3	2196	3.3	MM
6	Total-tetrafurans	6.10e2	7.72e2	1.38e3	23.49	0.79	NO	0.227	0.239	6.57e3	2301	2.9	7.13e3	2196	3.2	MM
7	Total-tetrafurans	1.17e2	8.00e1	1.97e2	23.73	1.47	YES	0.032	0.239	3.30e3	2301	1.4	4.56e3	2196	2.1	bb
8	Total-tetrafurans	7.30e2	1.08e3	1.81e3	24.39	0.68	NO	0.297	0.239	7.12e3	2301	3.1	9.25e3	2196	4.2	MM
9	Total-tetrafurans	2.44e2	3.20e2	5.63e2	24.77	0.76	NO	0.092	0.239	3.28e3	2301	1.4	5.49e3	2196	2.5	bb
10	Total-tetrafurans	1.55e2	8.18e1	2.37e2	25.03	1.89	YES	0.039	0.239	5.75e3	2301	2.5	2.58e3	2196	1.2	bd
11	2378-TCDF	6.49e2	7.35e2	1.38e3	25.70	0.88	NO	0.227	0.239	6.69e3	2301	2.9	6.78e3	2196	3.1	MM
12	Total-tetrafurans	6.36e1	5.65e1	1.20e2	25.96	1.12	YES	0.020	0.239	2.62e3	2301	1.1	4.20e3	2196	1.9	bd

PF1

	Name	Ion1Area	Ion2Area	Response	RT	RA	Fail?	pg/uL	EDL	Height1	Noise1	S/N1	Height2	Noise2	S/N2	M
1	Total-pentafurans (F1)	2.31e3	7.92e2	3.10e3	27.77	2.92	YES	0.740	0.108	2.07e4	741	27.9	1.32e4	1177	11.2	bd X
2	Total-pentafurans (F1)	5.25e3	3.82e3	9.07e3	27.93	1.37	NO	2.162	0.108	4.78e4	741	64.5	3.16e4	1177	26.9	db

Quantify Totals Report MassLynx 4.1
Method 8290 Quantification Report

Dataset: C:\MassLynx\Default.pro\Sample Results\8290-b10oct11a-5.qld

Last Altered: Tuesday, October 11, 2011 12:02:25 Eastern Standard Time
Printed: Tuesday, October 11, 2011 12:03:05 Eastern Standard Time

Name: b10oct11a-5, Date: 10-Oct-2011, Time: 16:18:26, ID: 2818001-1, Description: 19680, Job: HMS8290_1S, Task: HRP763_1, User: MJC

PF

	Name	Ion1Area	Ion2Area	Response	RT	RA	Fail?	pg/uL	EDL	Height1	Noise1	S/N1	Height2	Noise2	S/N2	M
1	Total-pentafurans	7.51e2	4.10e2	1.16e3	29.81	1.83	YES	0.277	0.361	1.26e4	3676	3.4	6.59e3	2725	2.4	MM
2	Total-pentafurans	6.09e2	3.30e2	9.39e2	29.91	1.85	YES	0.224	0.361	1.09e4	3676	3.0	8.57e3	2725	3.1	MM
3	Total-pentafurans	5.46e3	3.77e3	9.23e3	30.12	1.45	NO	2.202	0.361	5.28e4	3676	14.4	3.28e4	2725	12.0	MM
4	Total-pentafurans	1.55e3	8.48e2	2.39e3	30.70	1.82	YES	0.571	0.361	1.52e4	3676	4.1	1.26e4	2725	4.6	bd
5	Total-pentafurans	5.76e2	2.75e2	8.51e2	30.87	2.09	YES	0.203	0.361	8.80e3	3676	2.4	4.35e3	2725	1.6	db
6	12378-PeCDF	7.57e2	5.95e2	1.35e3	31.10	1.27	YES	0.319	0.357	8.19e3	3676	2.2	8.63e3	2725	3.2	bb
7	Total-pentafurans	7.70e2	4.08e2	1.18e3	31.32	1.89	YES	0.281	0.361	1.35e4	3676	3.7	7.48e3	2725	2.7	bb
8	23478-PeCDF	9.84e2	5.71e2	1.55e3	31.91	1.72	NO	0.375	0.365	1.84e4	3676	5.0	8.93e3	2725	3.3	MM
9	Total-pentafurans	2.97e2	3.50e2	6.47e2	32.12	0.85	YES	0.154	0.361	7.48e3	3676	2.0	1.37e4	2725	5.0	bb
10	Total-pentafurans	6.67e2	5.10e2	1.18e3	29.99	1.31	YES	0.281	0.361	1.24e4	3676	3.4	1.10e4	2725	4.0	MM
11	Total-pentafurans	3.14e2	2.21e2	5.35e2	31.85	1.43	NO	0.128	0.361	7.07e3	3676	1.9	7.03e3	2725	2.6	MM

HF

	Name	Ion1Area	Ion2Area	Response	RT	RA	Fail?	pg/uL	EDL	Height1	Noise1	S/N1	Height2	Noise2	S/N2	M
1	Total-hexafurans	2.11e2	1.61e2	3.71e2	32.87	1.31	NO	0.145	0.246	6.26e3	2342	2.7	7.79e3	2948	2.6	bd
2	Total-hexafurans	3.00e3	2.51e3	5.52e3	32.96	1.20	NO	2.158	0.246	6.92e4	2342	29.5	5.18e4	2948	17.6	dd
3	Total-hexafurans	8.65e3	7.07e3	1.57e4	33.07	1.22	NO	6.148	0.246	1.94e5	2342	82.9	1.59e5	2948	53.9	db
4	Total-hexafurans	2.44e3	1.98e3	4.41e3	33.33	1.23	NO	1.726	0.246	6.73e4	2342	28.7	6.40e4	2948	21.7	bd
5	Total-hexafurans	1.68e4	1.42e4	3.09e4	33.42	1.18	NO	12.091	0.246	3.46e5	2342	147.6	3.06e5	2948	103.7	db
6	Total-hexafurans	1.77e3	1.33e3	3.10e3	33.65	1.33	NO	1.212	0.246	2.02e4	2342	8.6	1.79e4	2948	6.1	bd
7	123478-HxCDF	6.80e3	5.32e3	1.21e4	33.77	1.28	NO	4.842	0.251	1.48e5	2342	63.3	1.12e5	2948	38.2	dd
8	123678-HxCDF	1.17e3	1.22e3	2.39e3	33.85	0.96	YES	0.819	0.216	2.72e4	2342	11.6	2.72e4	2948	9.2	db
9	Total-hexafurans	1.50e2	2.36e2	3.86e2	34.06	0.64	YES	0.151	0.246	4.59e3	2342	2.0	4.45e3	2948	1.5	dd
10	234678-HxCDF	1.61e3	1.33e3	2.94e3	34.27	1.21	NO	1.118	0.239	1.96e4	2342	8.4	1.57e4	2948	5.3	bb

Quantify Totals Report MassLynx 4.1
Method 8290 Quantification Report

Dataset: C:\MassLynx\Default.pro\Sample Results\8290-b10oct11a-5.qld

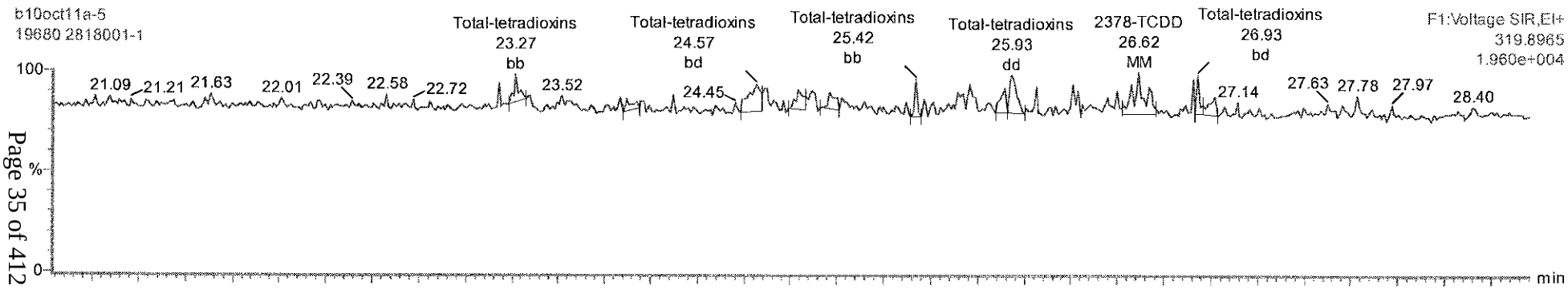
Last Altered: Tuesday, October 11, 2011 12:02:25 Eastern Standard Time
Printed: Tuesday, October 11, 2011 12:03:05 Eastern Standard Time

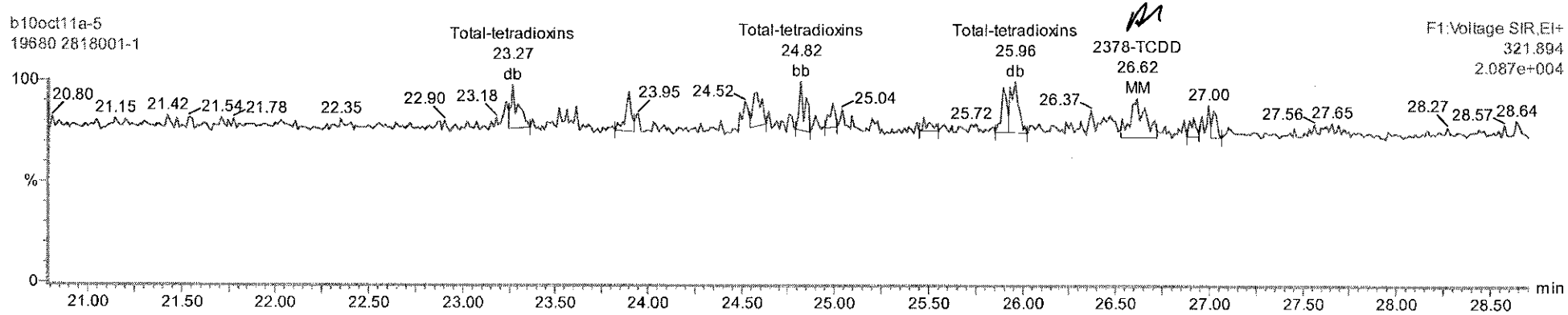
Name: b10oct11a-5, Date: 10-Oct-2011, Time: 16:18:26, ID: 2818001-1, Description: 19680, Job: HMS8290_1S, Task: HRP763_1, User: MJC

HPF

	Name	Ion1Area	Ion2Area	Response	RT	RA	Fail?	pg/uL	EDL	Height1	Noise1	S/N1	Height2	Noise2	S/N2	M
1	Total-heptafurans	1.10e2	5.02e1	1.60e2	35.65	2.19	YES	0.062	0.182	4.22e3	1651	2.6	2.34e3	1638	1.4	bb
2	Total-heptafurans	4.20e2	5.70e2	9.89e2	35.86	0.74	YES	0.385	0.182	1.15e4	1651	7.0	1.36e4	1638	8.3	bd
3	1234678-HpCDF	1.51e4	1.43e4	2.95e4	35.95	1.06	NO	9.902	0.157	2.61e5	1651	157.8	2.47e5	1638	150.6	dd
4	Total-heptafurans	2.10e3	1.80e3	3.90e3	36.12	1.16	NO	1.517	0.182	4.11e4	1651	24.9	3.44e4	1638	21.0	dd
5	Total-heptafurans	1.50e3	1.66e3	3.16e3	36.19	0.90	NO	1.228	0.182	3.23e4	1651	19.5	3.29e4	1638	20.1	dd
6	Total-heptafurans	1.28e4	1.19e4	2.47e4	36.32	1.07	NO	9.609	0.182	2.52e5	1651	152.6	2.29e5	1638	139.7	db
7	Total-heptafurans	5.67e2	3.74e2	9.41e2	36.88	1.52	YES	0.366	0.182	1.27e4	1651	7.7	8.61e3	1638	5.3	bb
8	1234789-HpCDF	1.01e3	1.07e3	2.07e3	37.33	0.95	NO	0.957	0.216	1.80e4	1651	10.9	2.30e4	1638	14.1	bb

MANUAL INTEGRATION

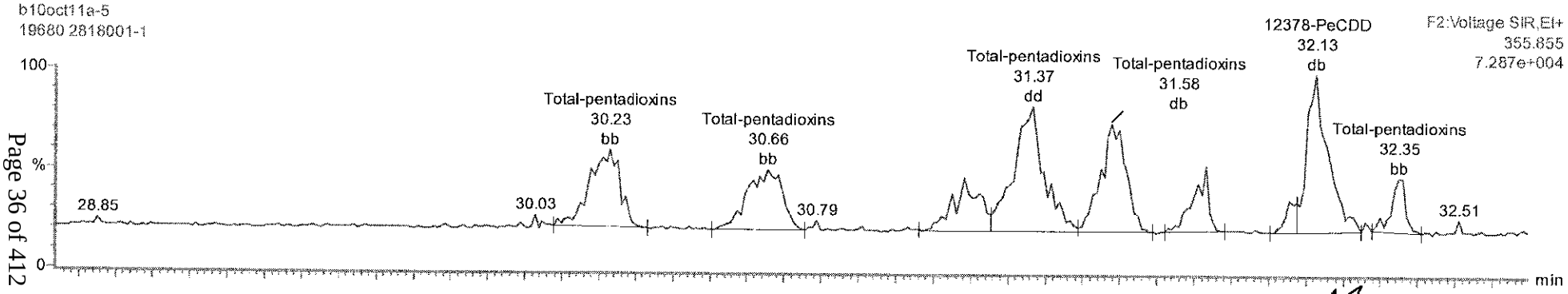


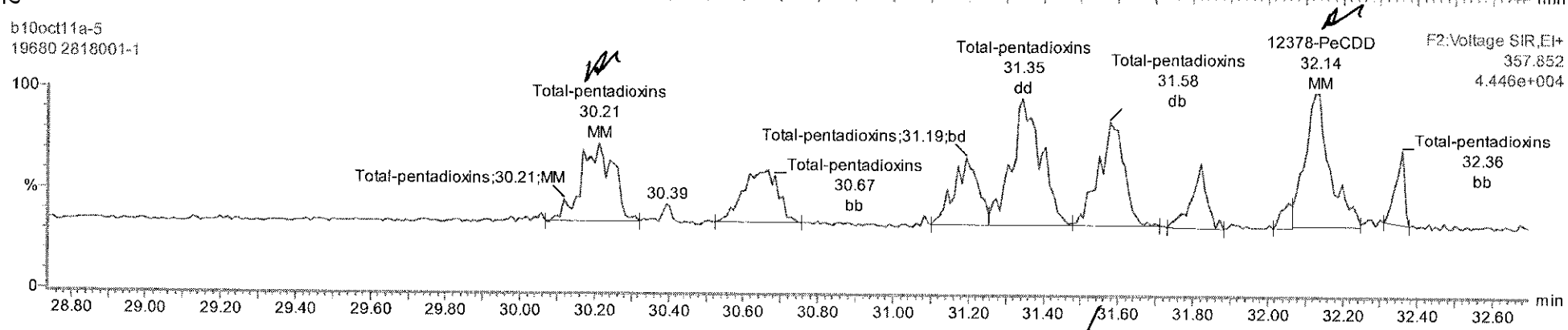


10/11/11

HMP 11Oct11

MANUAL INTEGRATION

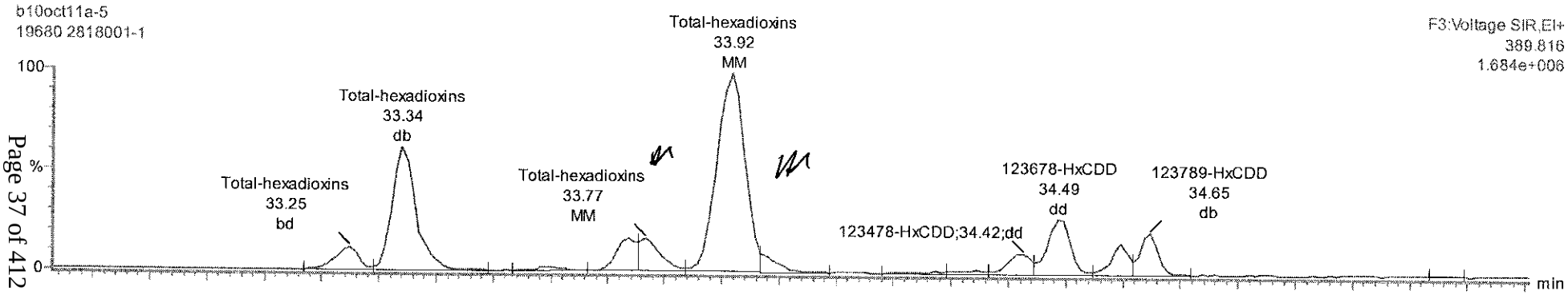


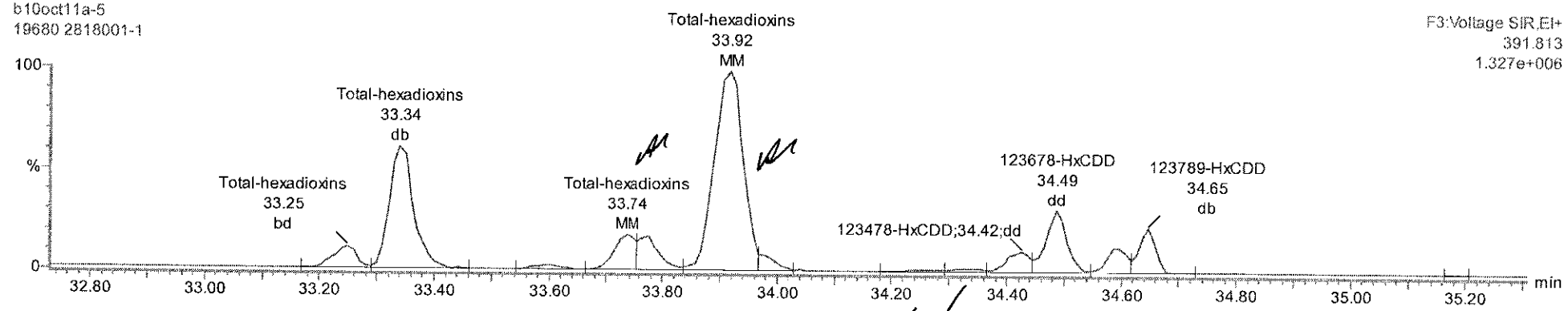


10/11/11

HMP 11Oct11

MANUAL INTEGRATION

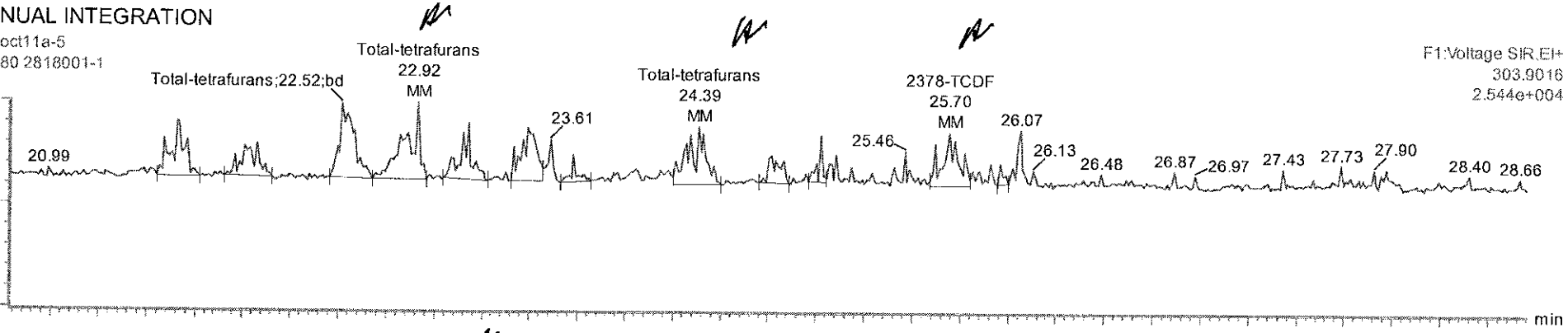




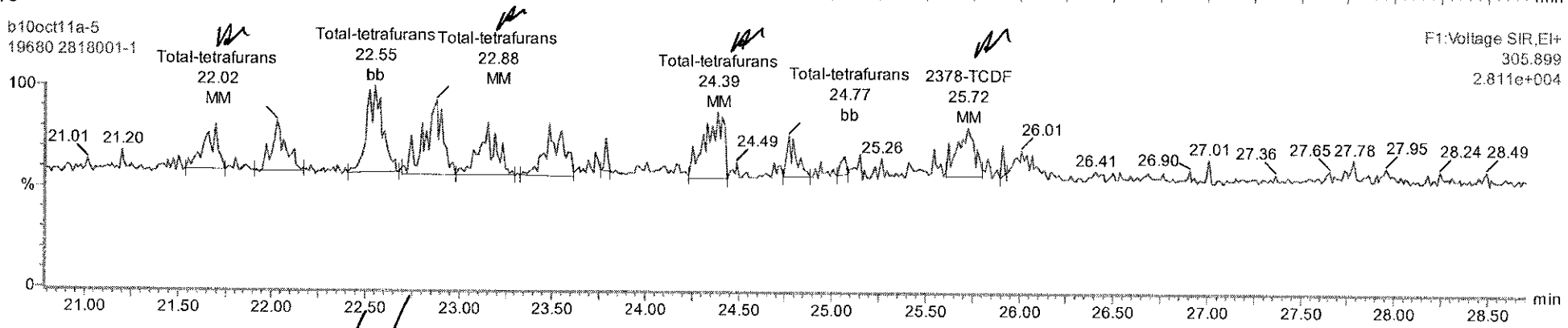
HMP 11Oct11

MANUAL INTEGRATION

b10oct11a-5
19680 2818001-1



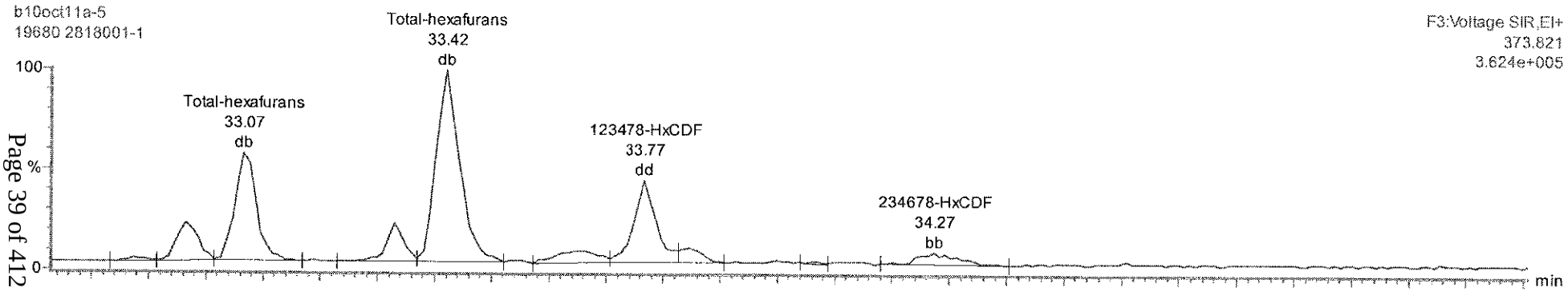
b10oct11a-5
19680 2818001-1

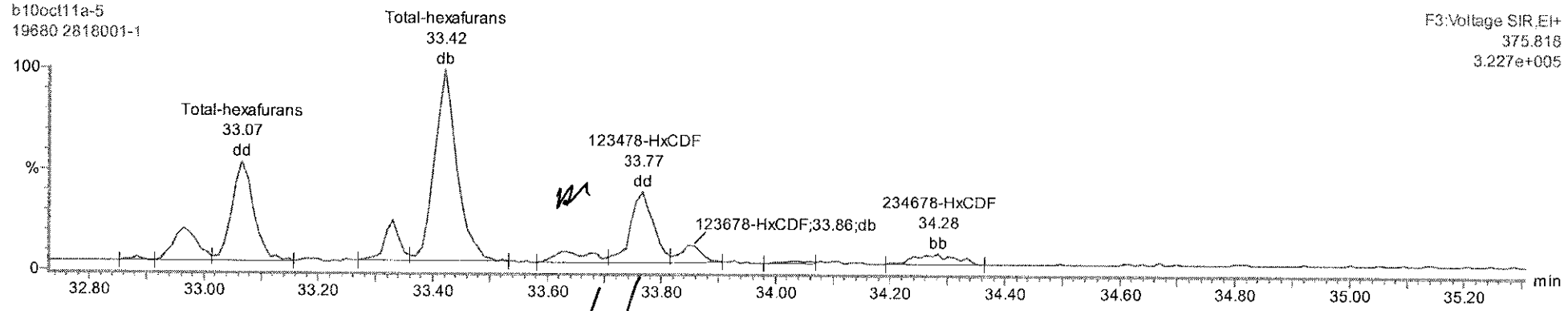


7/10/11

HMP 110ct11

MANUAL INTEGRATION





7.0/4/4

HMP 11Oct11

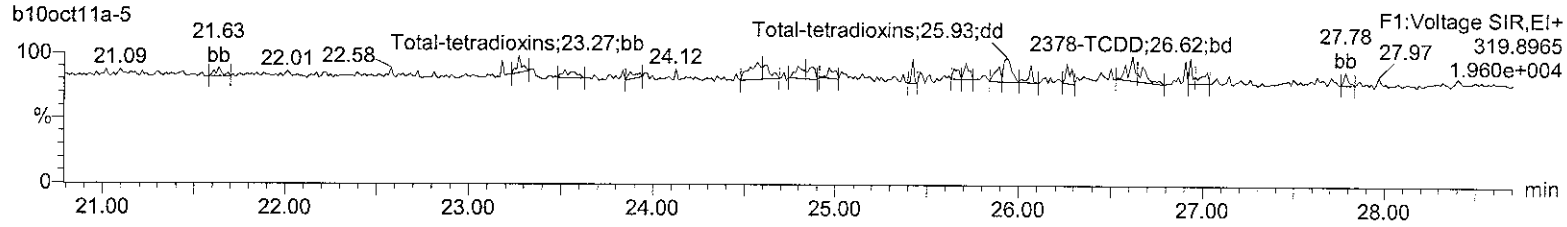
Quantify Sample Report **MassLynx 4.1**
Method 8290 Quantification Report

Dataset: C:\MassLynx\Default.pro\Sample Results\8290-b10oct11a.qld

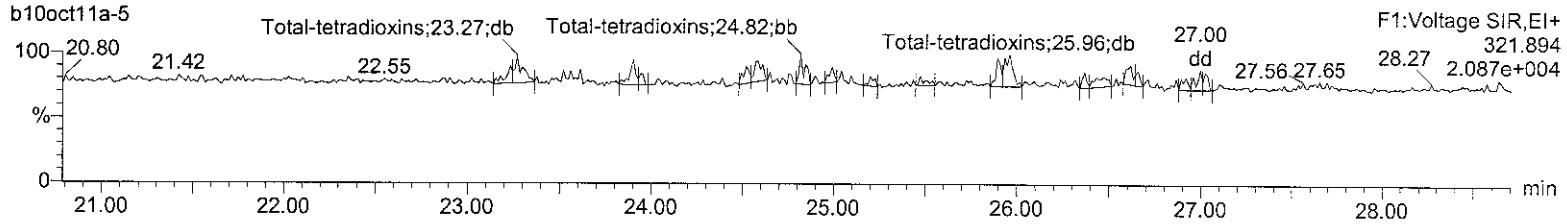
Last Altered: Tuesday, October 11, 2011 08:03:54 Eastern Standard Time
Printed: Tuesday, October 11, 2011 08:04:29 Eastern Standard Time

Name: b10oct11a-5, Date: 10-Oct-2011, Time: 16:18:26, ID: 2818001-1, Description: 19680, Job: HMS8290_1S, Task: HRP763_1, User: MJC

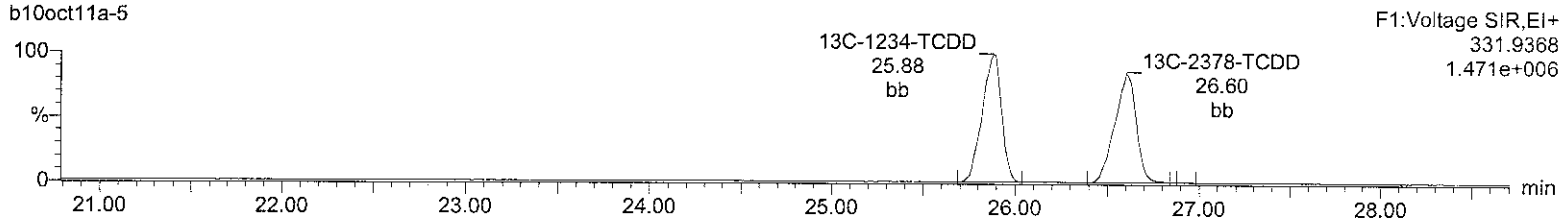
Total-tetradioxins



Total-tetradioxins



13C-2378-TCDD



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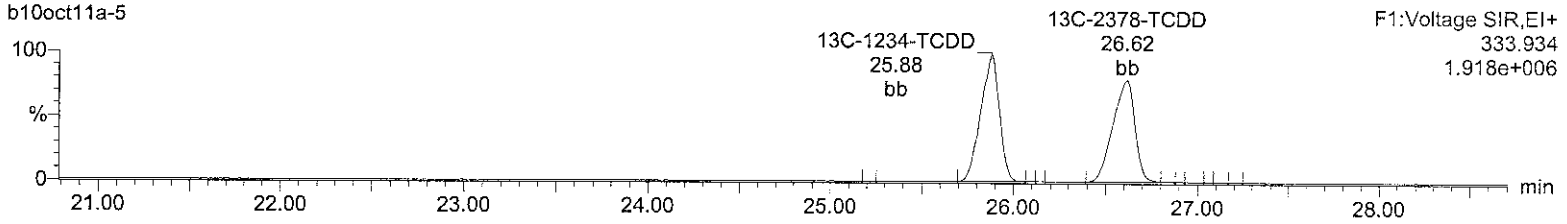
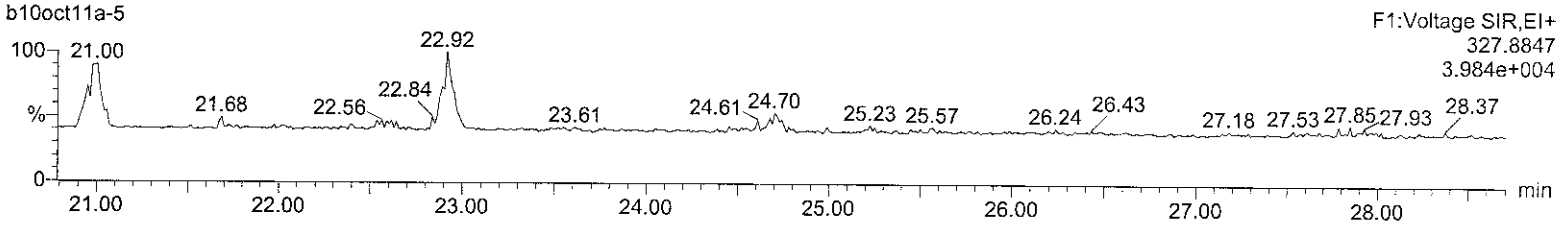
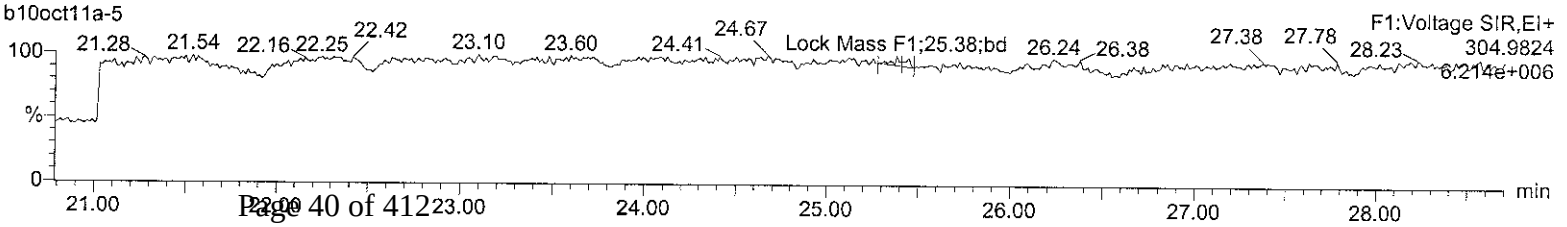


37Cl-2378-TCDD (SS)



Lock Mass F1



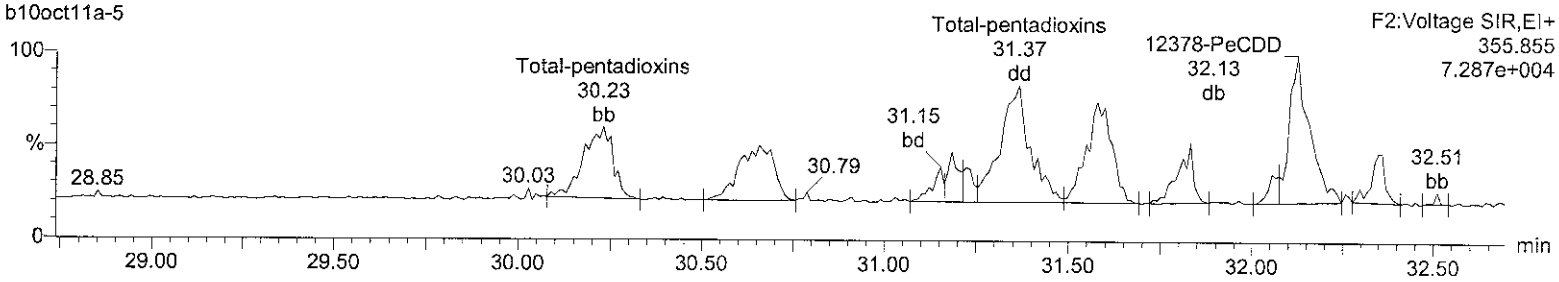
Quantify Sample Report **MassLynx 4.1**
Method 8290 Quantification Report

Dataset: C:\MassLynx\Default.pro\Sample Results\8290-b10oct11a.qld

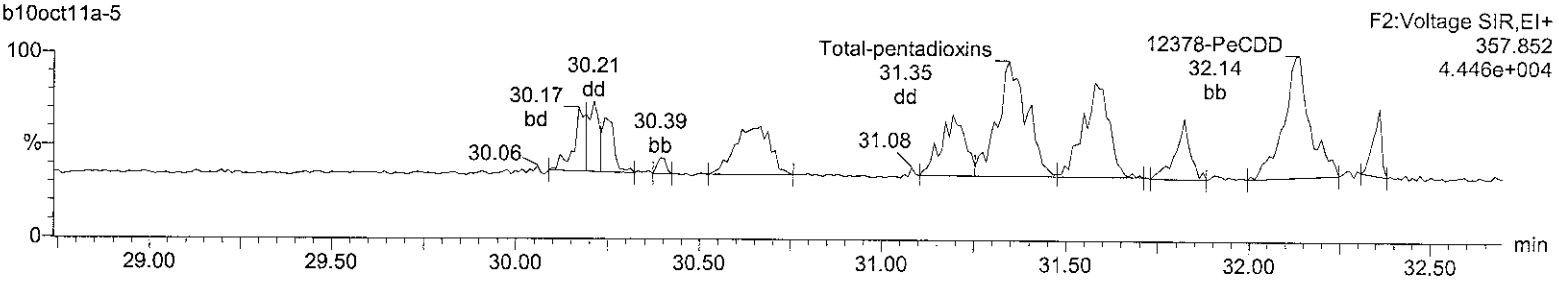
Last Altered: Tuesday, October 11, 2011 08:03:54 Eastern Standard Time
Printed: Tuesday, October 11, 2011 08:04:29 Eastern Standard Time

Name: b10oct11a-5, Date: 10-Oct-2011, Time: 16:18:26, ID: 2818001-1, Description: 19680, Job: HMS8290_1S, Task: HRP763_1, User: MJC

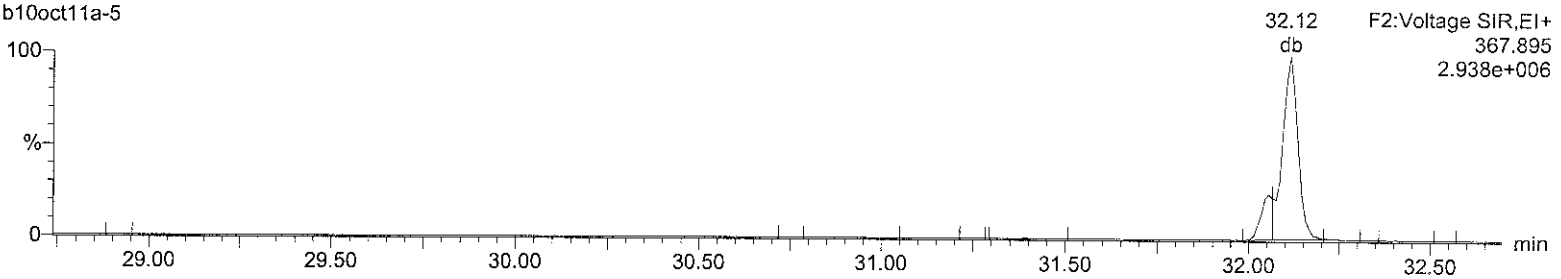
Total-pentadioxins
b10oct11a-5



Total-pentadioxins
b10oct11a-5



13C-12378-PeCDD
b10oct11a-5



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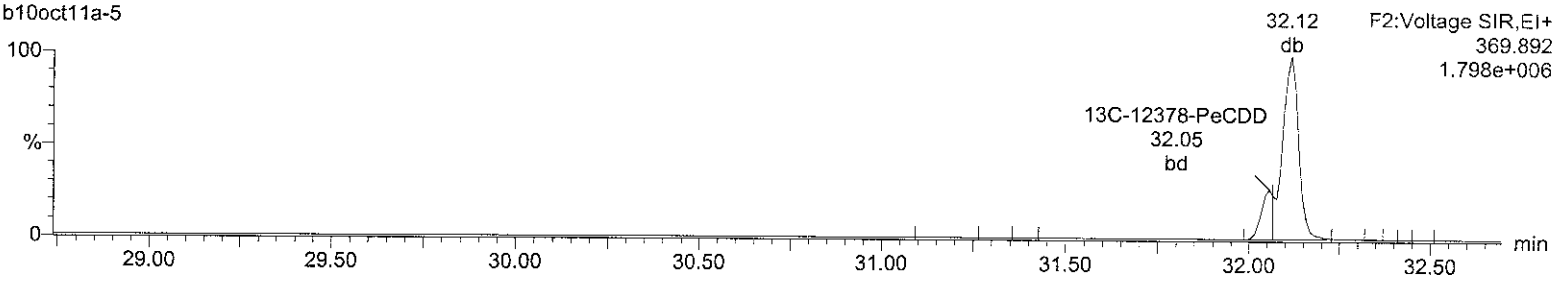

Lock Mass F2
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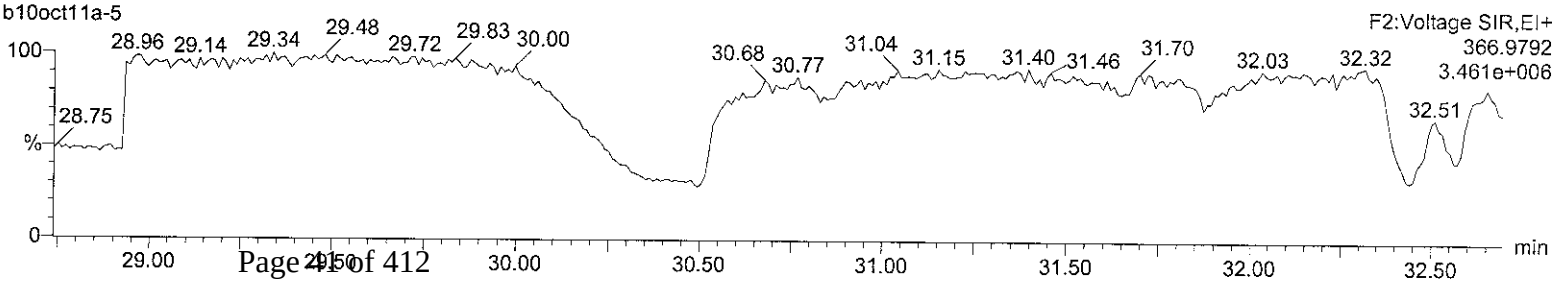


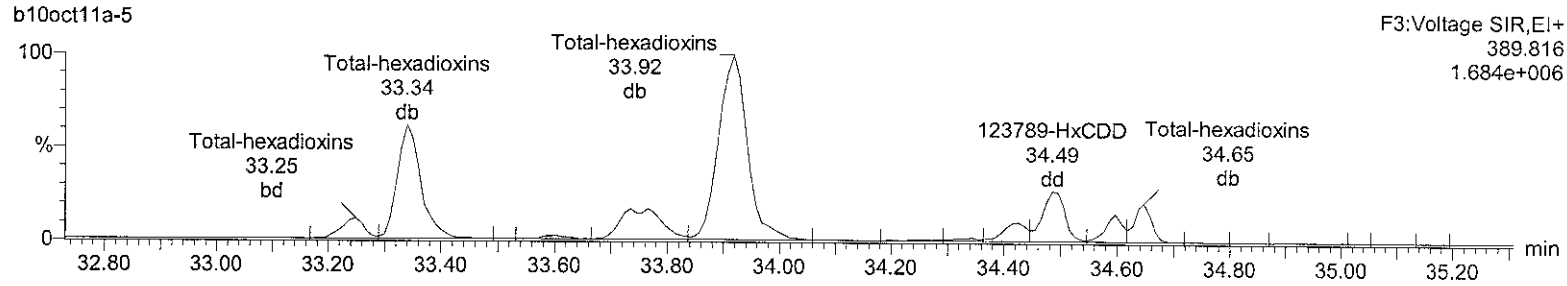
Quantify Sample Report **MassLynx 4.1**
Method 8290 Quantification Report

Dataset: C:\MassLynx\Default.pro\Sample Results\8290-b10oct11a.qld

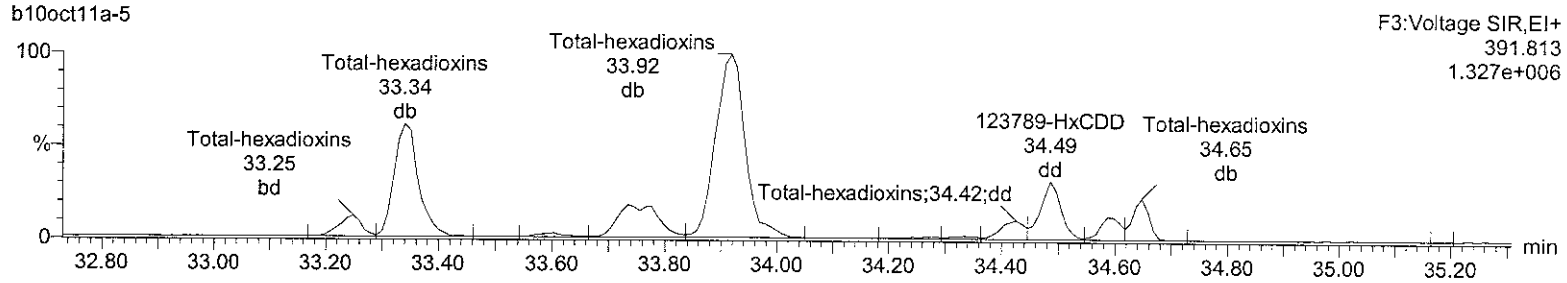
Last Altered: Tuesday, October 11, 2011 08:03:54 Eastern Standard Time
Printed: Tuesday, October 11, 2011 08:04:29 Eastern Standard Time

Name: b10oct11a-5, Date: 10-Oct-2011, Time: 16:18:26, ID: 2818001-1, Description: 19680, Job: HMS8290_1S, Task: HRP763_1, User: MJC

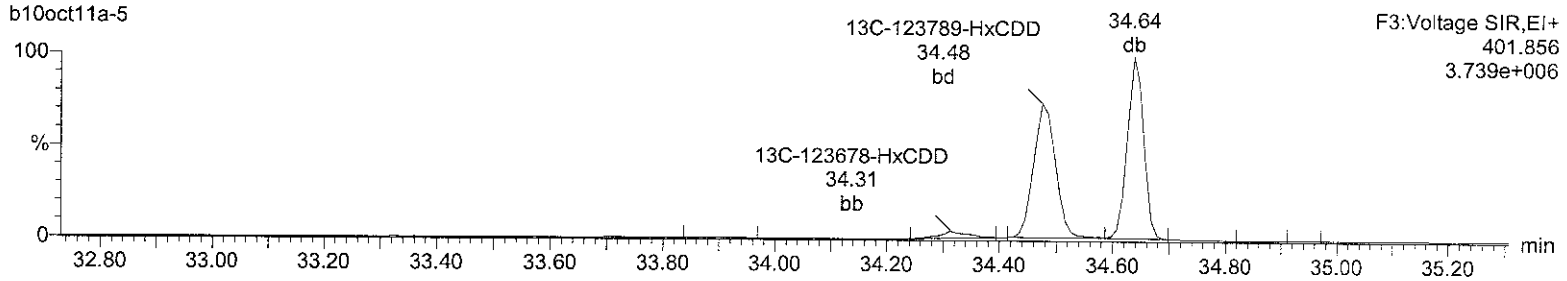
Total-hexadioxins



Total-hexadioxins



13C-123678-HxCDD



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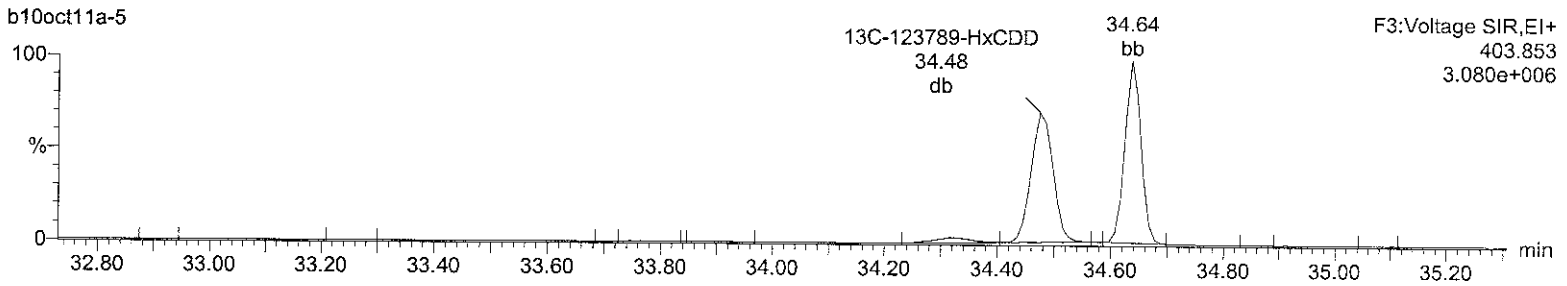
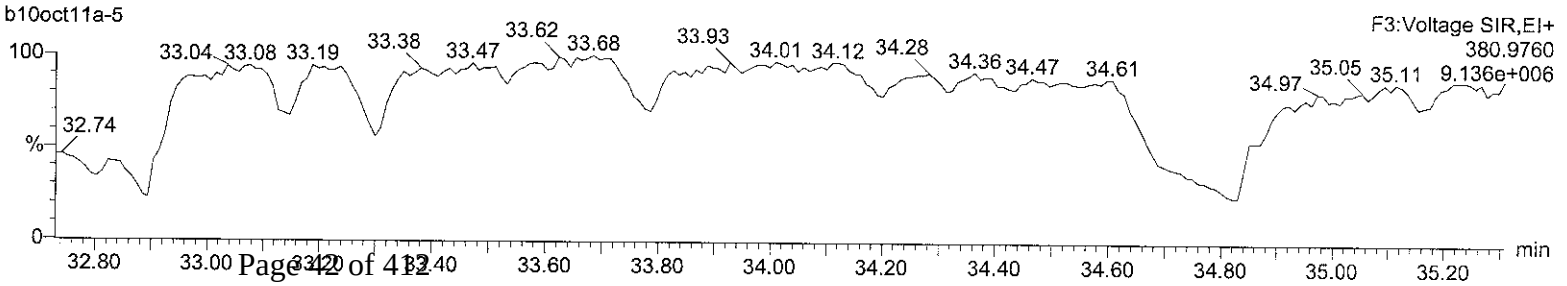


Lock Mass F3



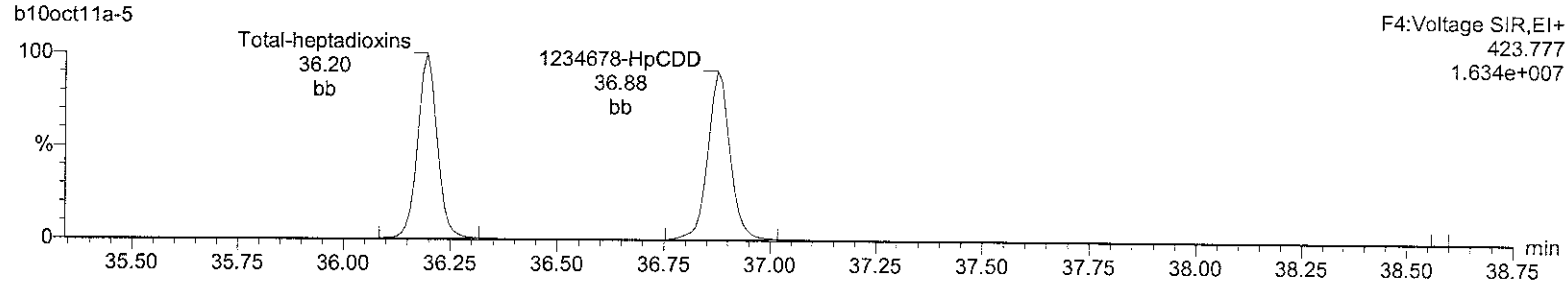
Quantify Sample Report **MassLynx 4.1**
Method 8290 Quantification Report

Dataset: C:\MassLynx\Default.pro\Sample Results\8290-b10oct11a.qld

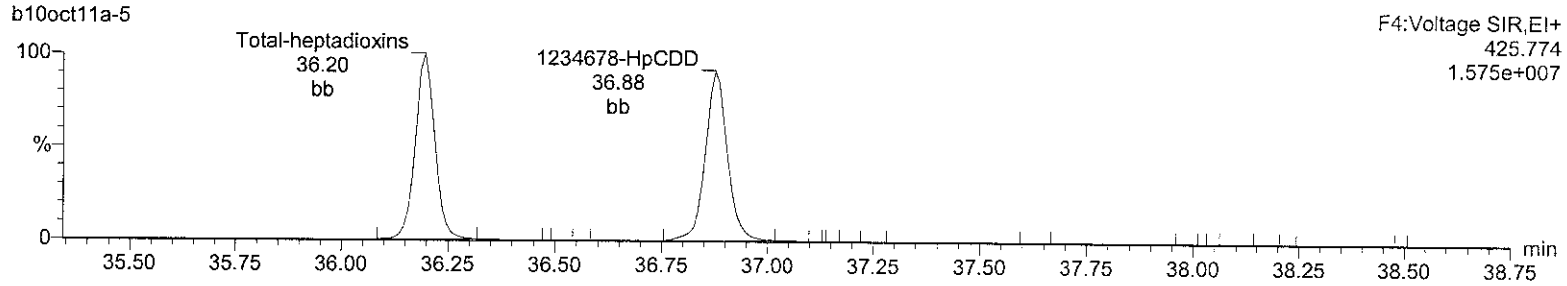
Last Altered: Tuesday, October 11, 2011 08:03:54 Eastern Standard Time
Printed: Tuesday, October 11, 2011 08:04:29 Eastern Standard Time

Name: b10oct11a-5, Date: 10-Oct-2011, Time: 16:18:26, ID: 2818001-1, Description: 19680, Job: HMS8290_1S, Task: HRP763_1, User: MJC

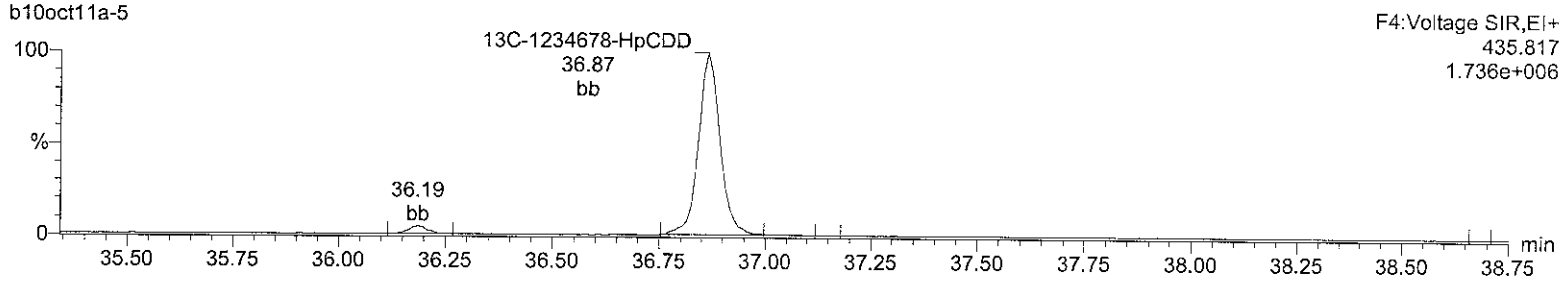
Total-heptadioxins



Total-heptadioxins



13C-1234678-HpCDD



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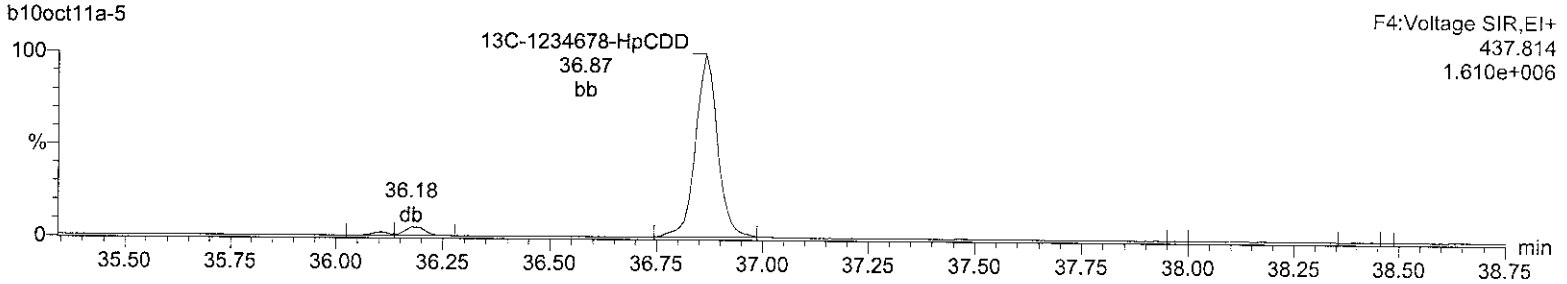
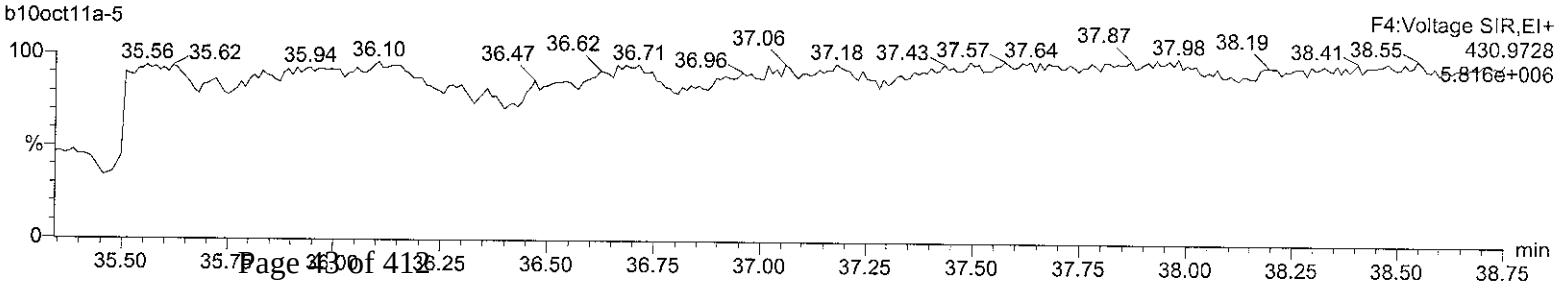


Lock Mass F4



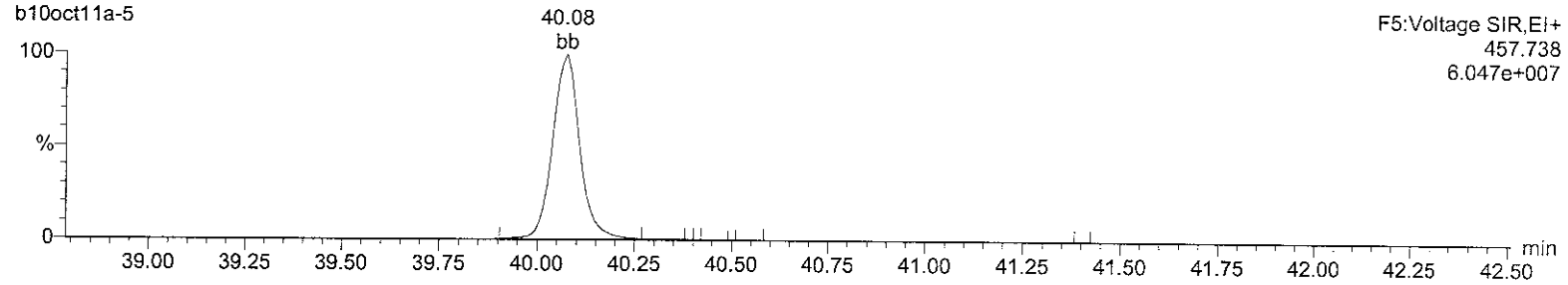
Quantify Sample Report **MassLynx 4.1**
Method 8290 Quantification Report

Dataset: C:\MassLynx\Default.pro\Sample Results\8290-b10oct11a.qld

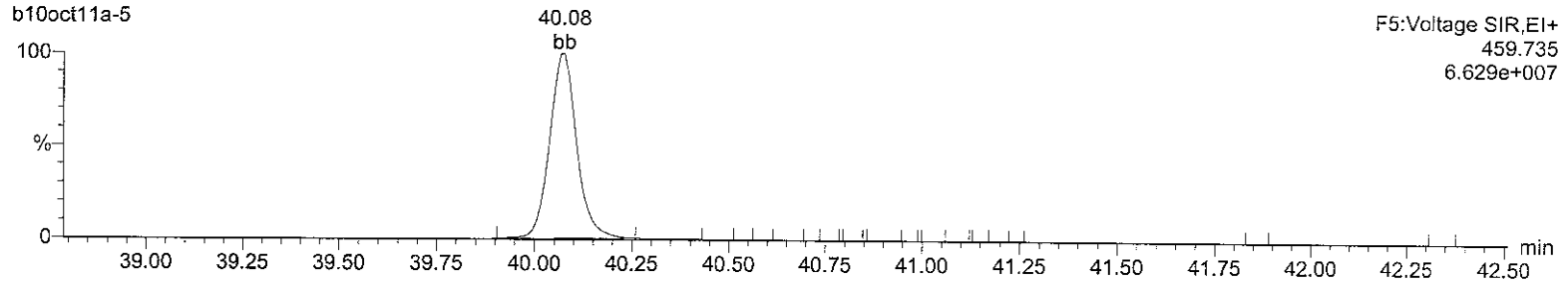
Last Altered: Tuesday, October 11, 2011 08:03:54 Eastern Standard Time
Printed: Tuesday, October 11, 2011 08:04:29 Eastern Standard Time

Name: b10oct11a-5, Date: 10-Oct-2011, Time: 16:18:26, ID: 2818001-1, Description: 19680, Job: HMS8290_1S, Task: HRP763_1, User: MJC

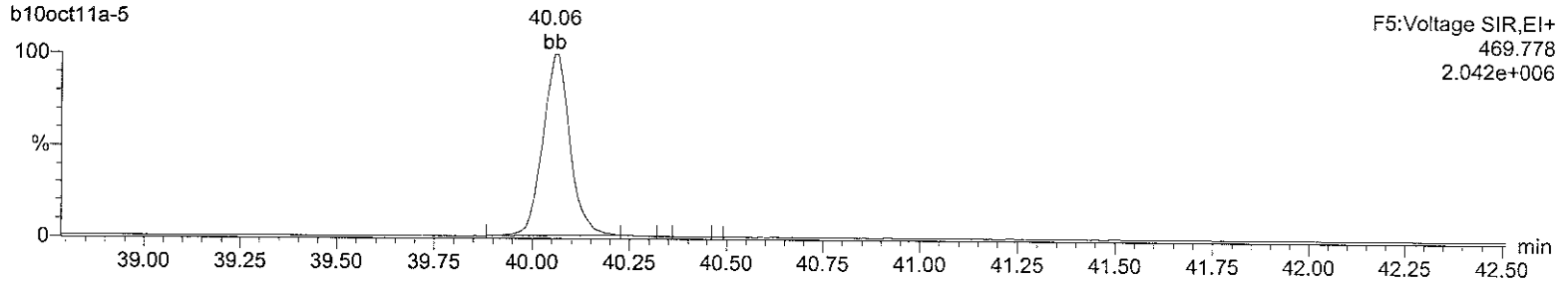
OCDD



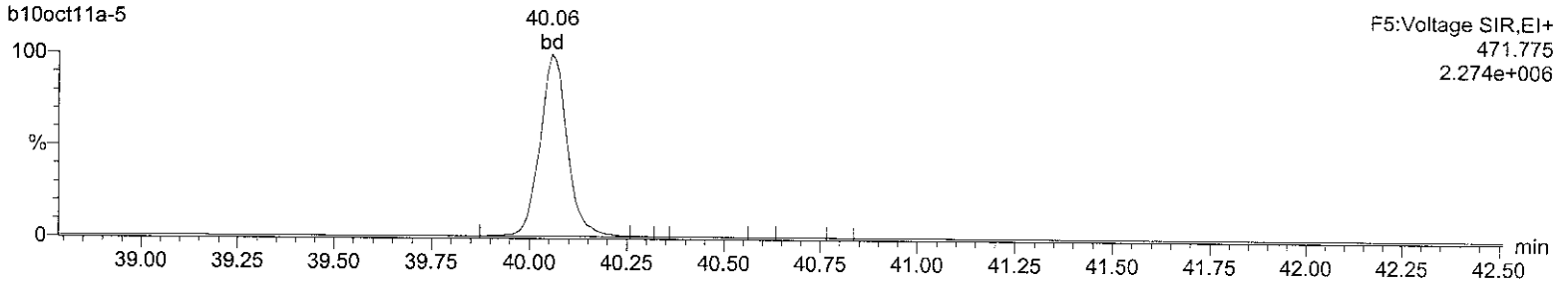
OCDD



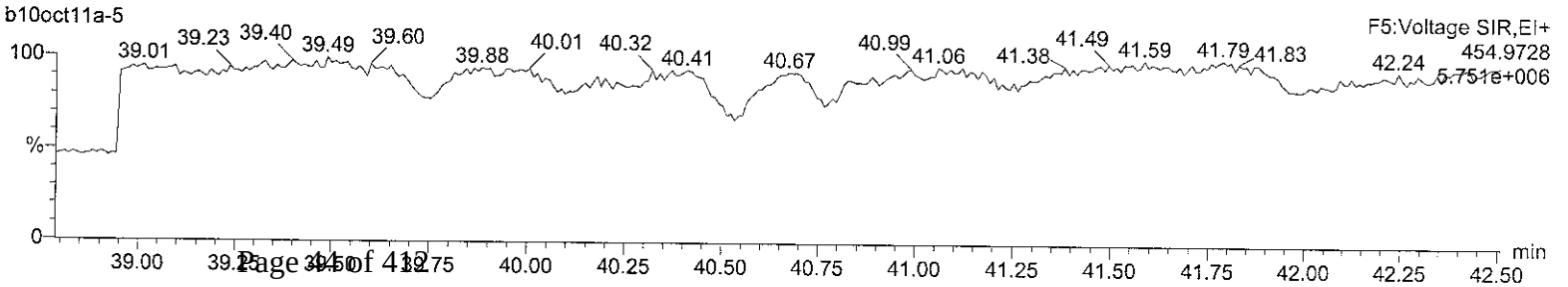
13C-OCDD



13C-OCDD



Lock Mass F5



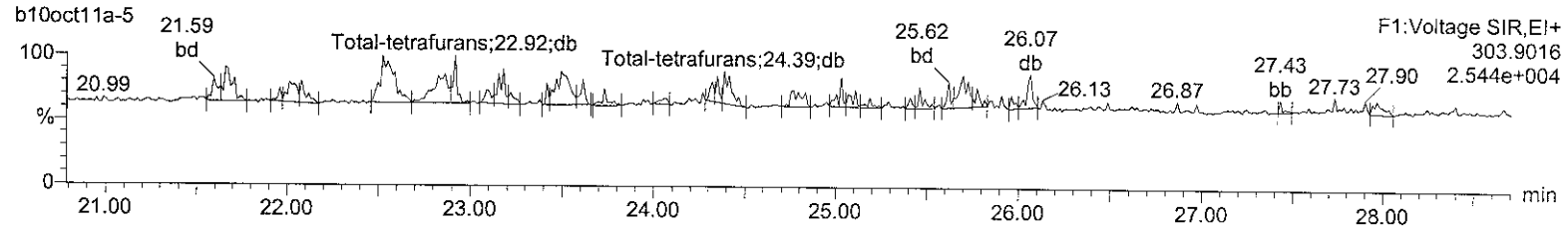
Quantify Sample Report **MassLynx 4.1**
Method 8290 Quantification Report

Dataset: C:\MassLynx\Default.pro\Sample Results\8290-b10oct11a.qld

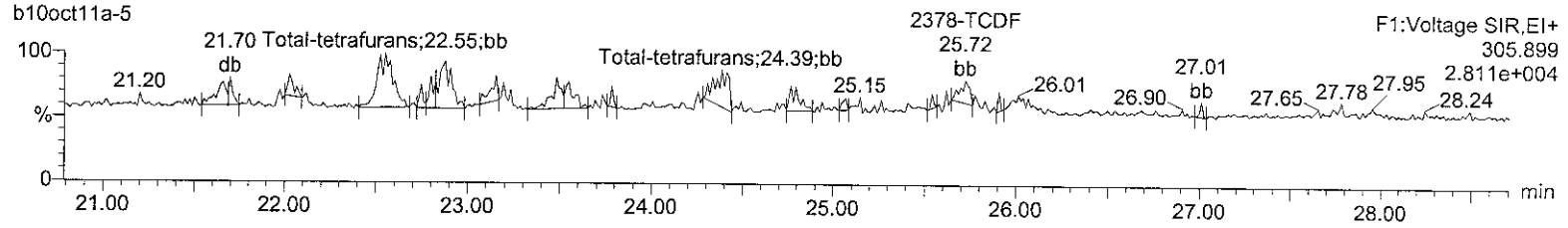
Last Altered: Tuesday, October 11, 2011 08:03:54 Eastern Standard Time
Printed: Tuesday, October 11, 2011 08:04:29 Eastern Standard Time

Name: b10oct11a-5, Date: 10-Oct-2011, Time: 16:18:26, ID: 2818001-1, Description: 19680, Job: HMS8290_1S, Task: HRP763_1, User: MJC

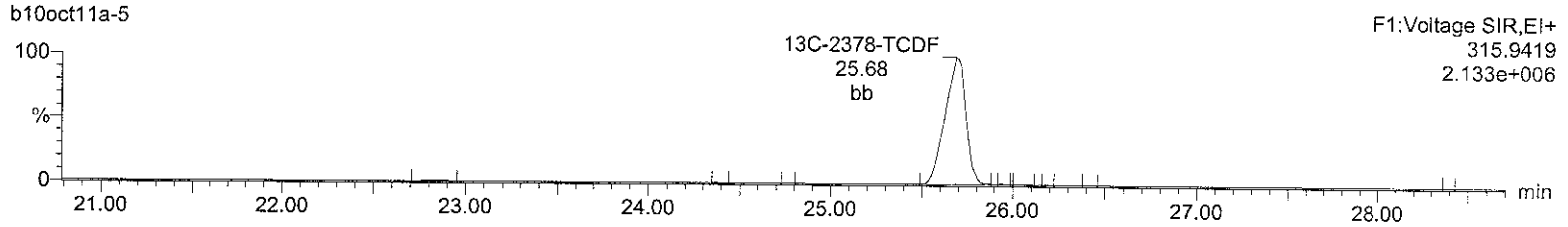
Total-tetrafurans



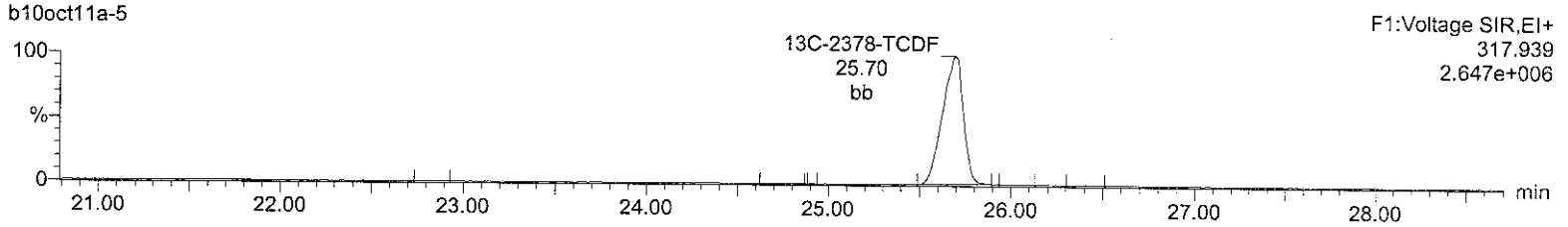
Total-tetrafurans



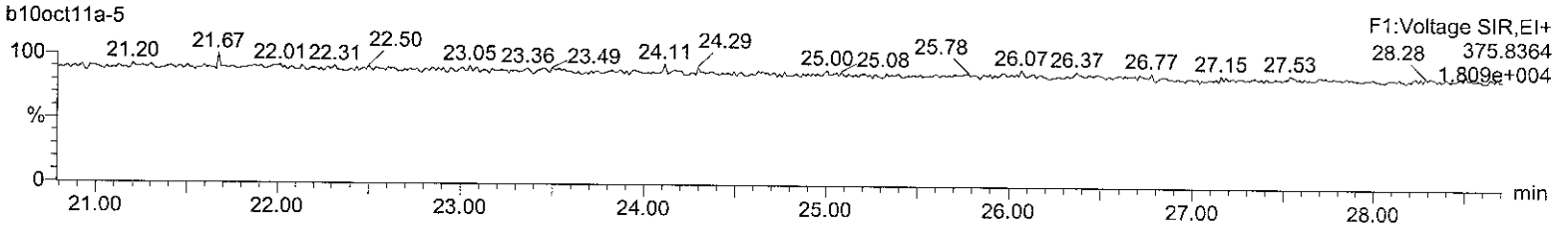
13C-2378-TCDF



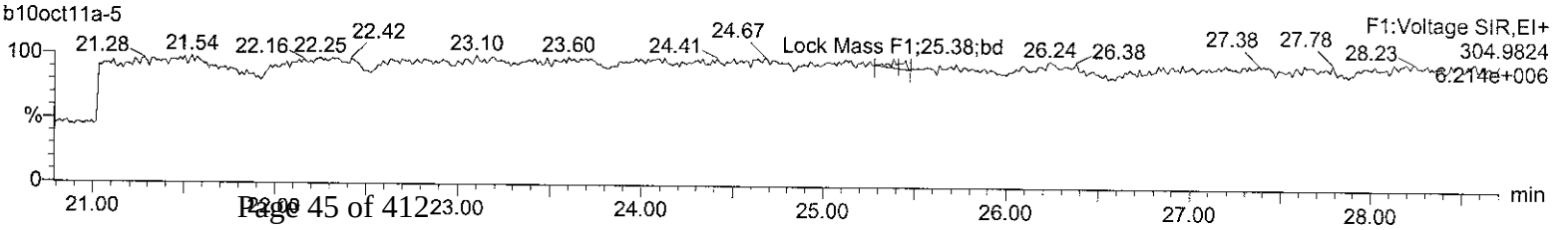
13C-2378-TCDF



HxDPE



Lock Mass F1



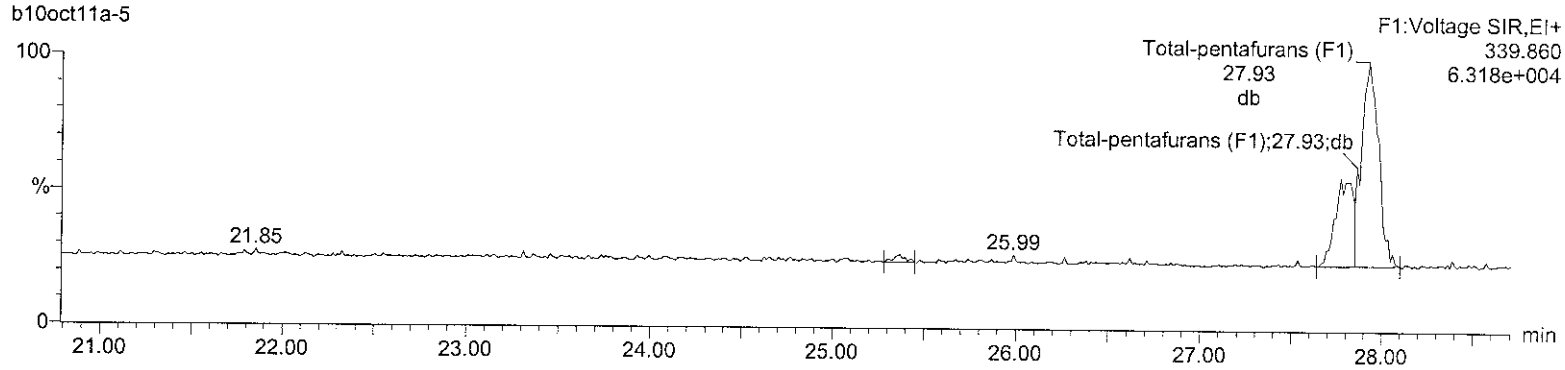
Quantify Sample Report **MassLynx 4.1**
Method 8290 Quantification Report

Dataset: C:\MassLynx\Default.pro\Sample Results\8290-b10oct11a.qld

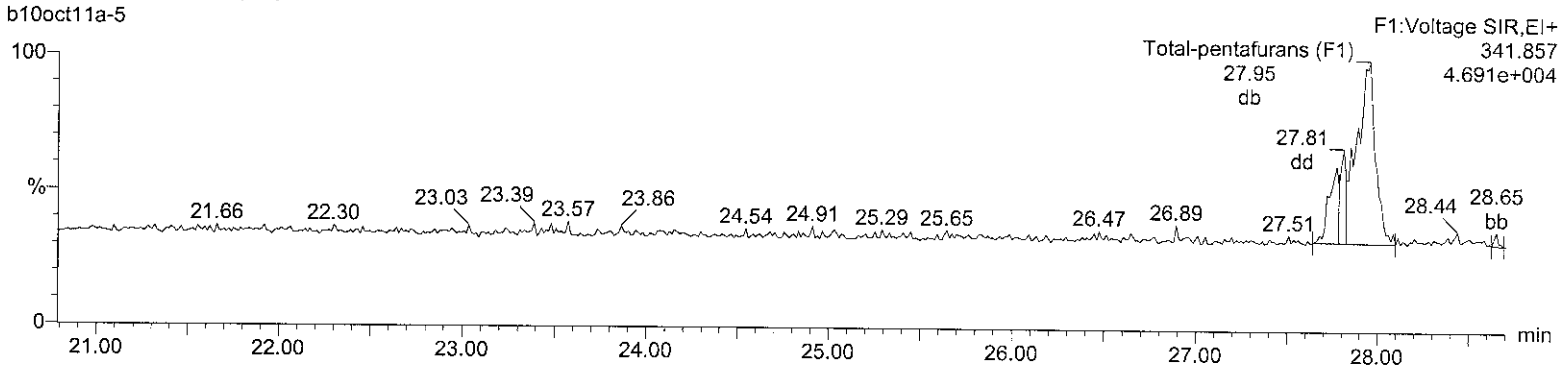
Last Altered: Tuesday, October 11, 2011 08:03:54 Eastern Standard Time
Printed: Tuesday, October 11, 2011 08:04:29 Eastern Standard Time

Name: b10oct11a-5, Date: 10-Oct-2011, Time: 16:18:26, ID: 2818001-1, Description: 19680, Job: HMS8290_1S, Task: HRP763_1, User: MJC

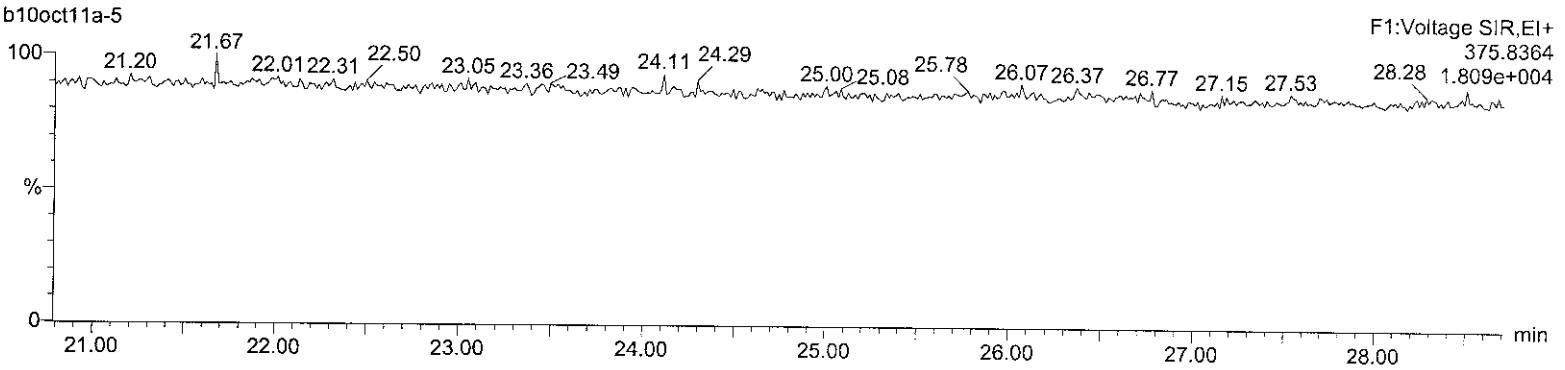
Total-pentafurans (F1)
b10oct11a-5



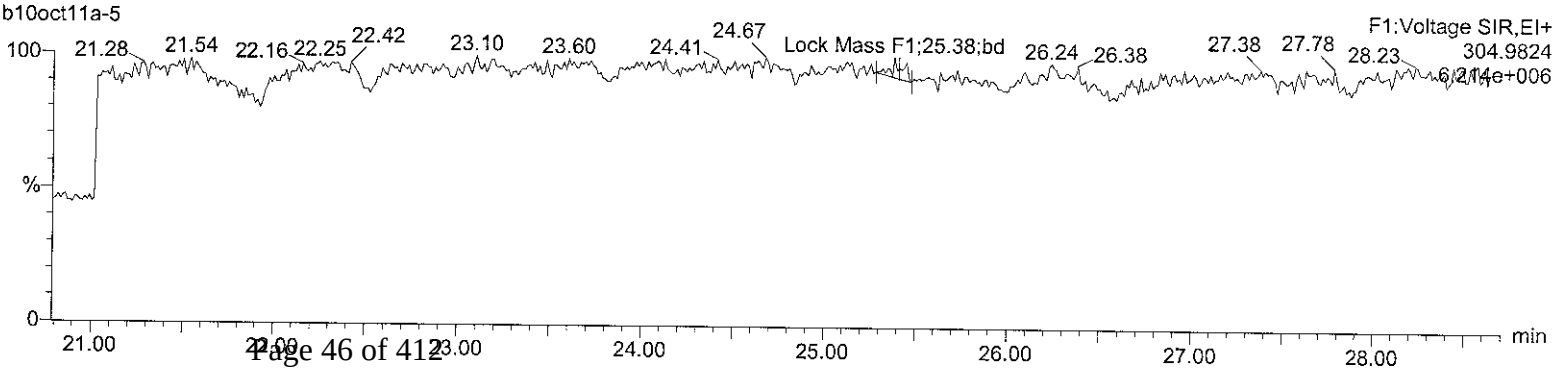
Total-pentafurans (F1)
b10oct11a-5



HxDPE
b10oct11a-5



Lock Mass F1
b10oct11a-5



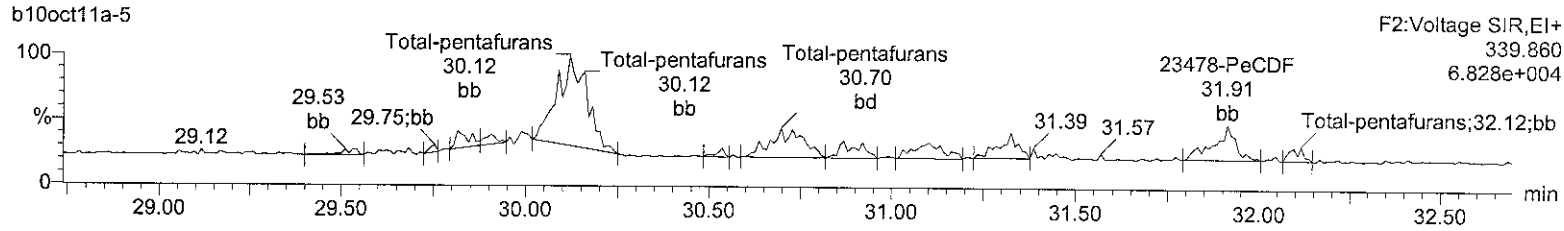
Quantify Sample Report **MassLynx 4.1**
Method 8290 Quantification Report

Dataset: C:\MassLynx\Default.pro\Sample Results\8290-b10oct11a.qld

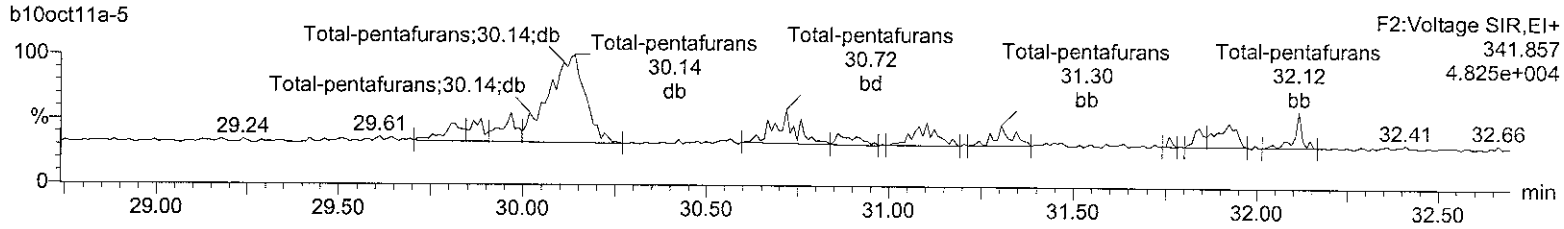
Last Altered: Tuesday, October 11, 2011 08:03:54 Eastern Standard Time
Printed: Tuesday, October 11, 2011 08:04:29 Eastern Standard Time

Name: b10oct11a-5, Date: 10-Oct-2011, Time: 16:18:26, ID: 2818001-1, Description: 19680, Job: HMS8290_1S, Task: HRP763_1, User: MJC

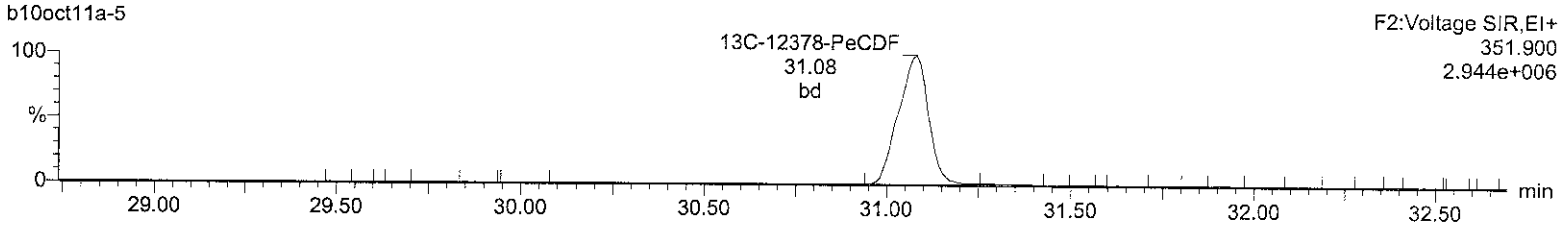
Total-pentafurans



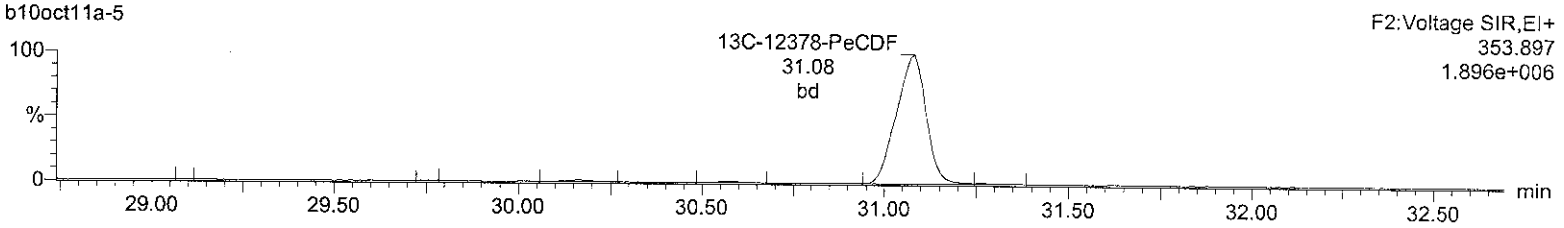
Total-pentafurans



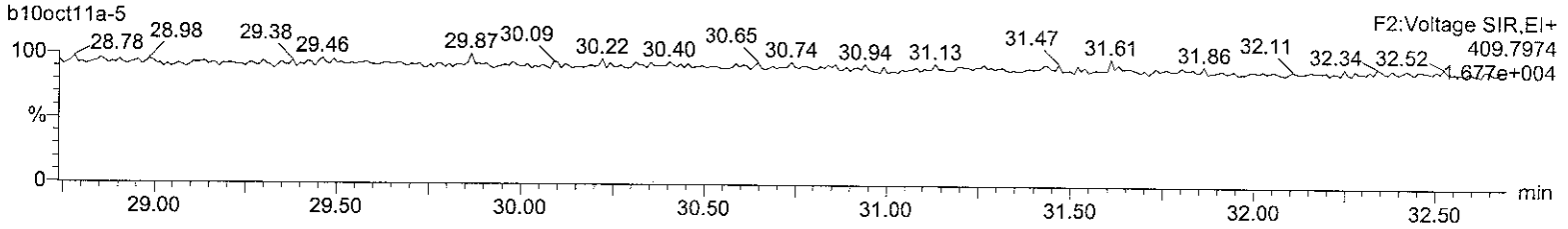
13C-12378-PeCDF



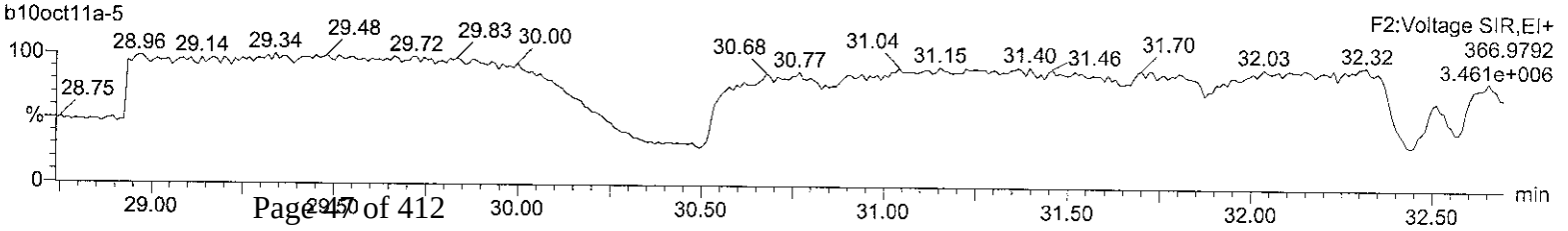
13C-12378-PeCDF



HpDPE



Lock Mass F2



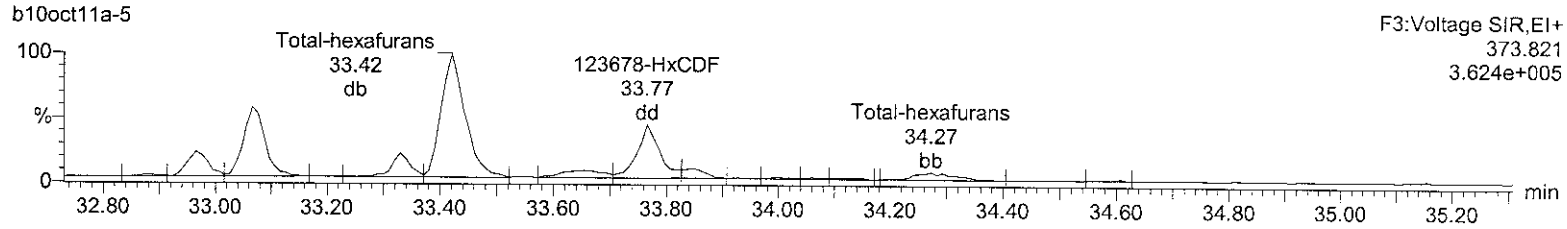
Quantify Sample Report **MassLynx 4.1**
Method 8290 Quantification Report

Dataset: C:\MassLynx\Default.pro\Sample Results\8290-b10oct11a.qld

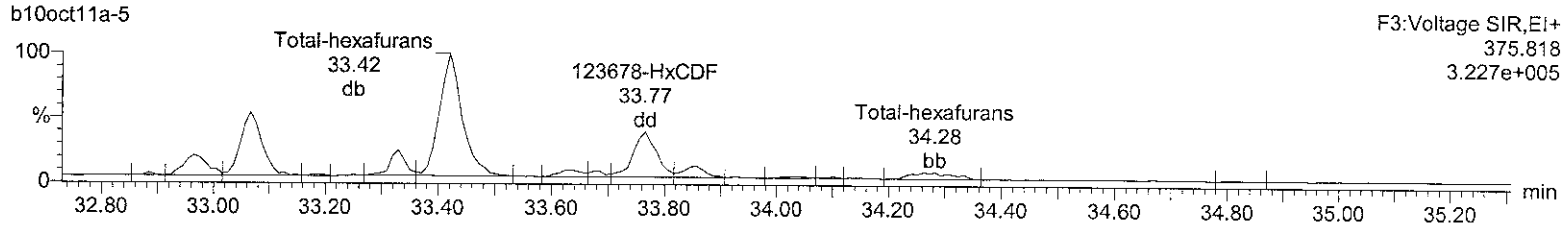
Last Altered: Tuesday, October 11, 2011 08:03:54 Eastern Standard Time
Printed: Tuesday, October 11, 2011 08:04:29 Eastern Standard Time

Name: b10oct11a-5, Date: 10-Oct-2011, Time: 16:18:26, ID: 2818001-1, Description: 19680, Job: HMS8290_1S, Task: HRP763_1, User: MJC

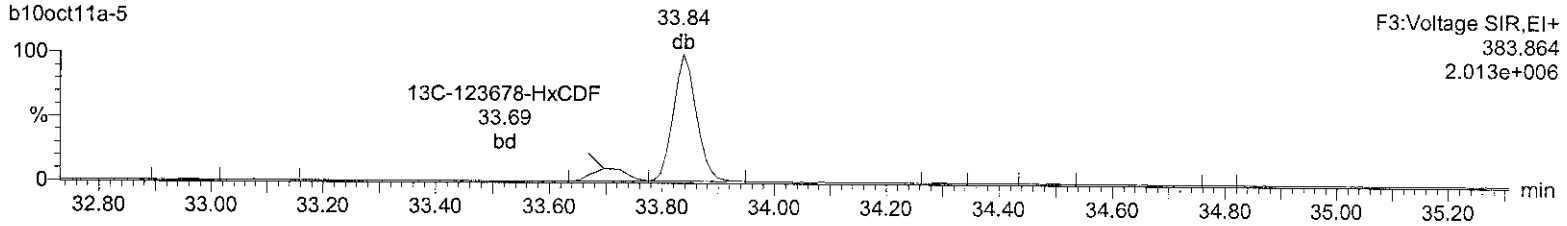
Total-hexafurans



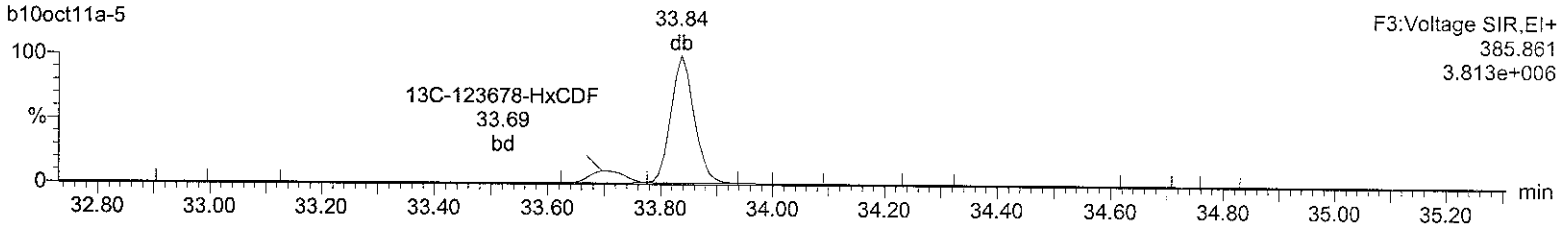
Total-hexafurans



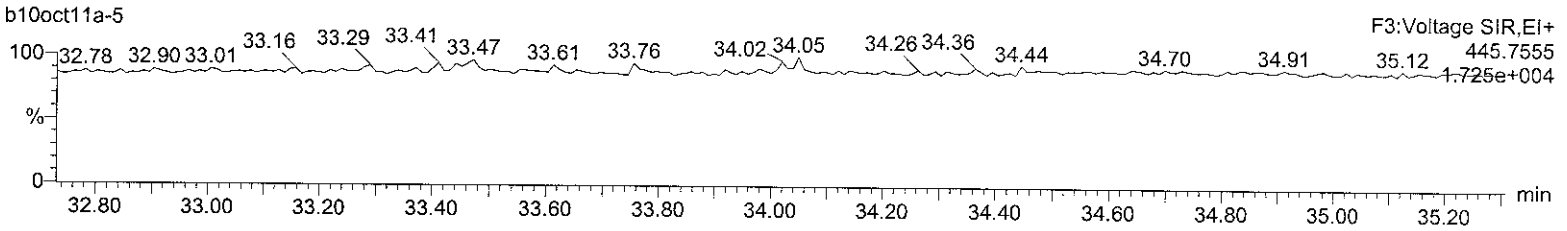
13C-123678-HxCDF



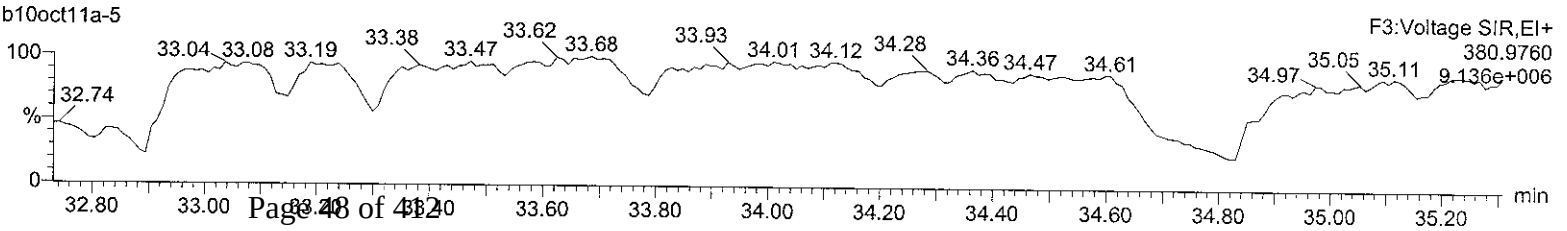
13C-123678-HxCDF



OcDPE



Lock Mass F3



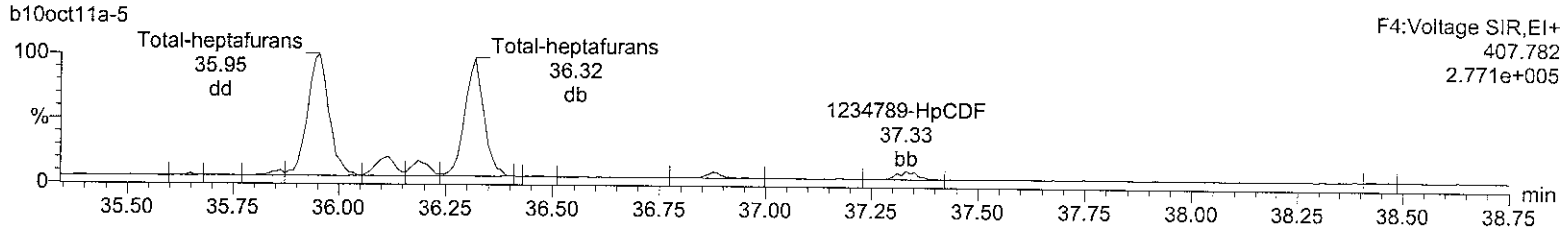
Quantify Sample Report **MassLynx 4.1**
Method 8290 Quantification Report

Dataset: C:\MassLynx\Default.pro\Sample Results\8290-b10oct11a.qld

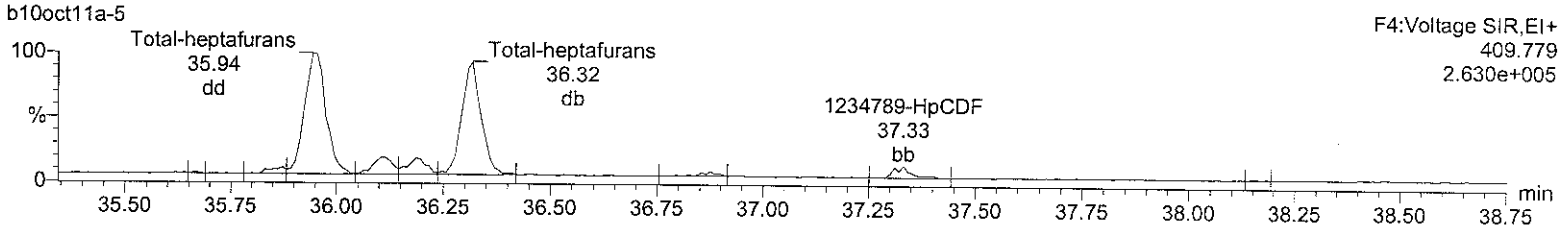
Last Altered: Tuesday, October 11, 2011 08:03:54 Eastern Standard Time
Printed: Tuesday, October 11, 2011 08:04:29 Eastern Standard Time

Name: b10oct11a-5, Date: 10-Oct-2011, Time: 16:18:26, ID: 2818001-1, Description: 19680, Job: HMS8290_1S, Task: HRP763_1, User: MJC

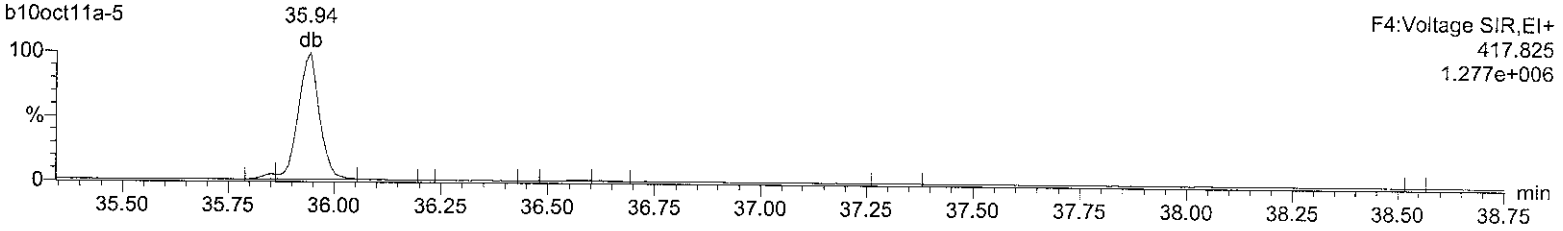
Total-heptafurans



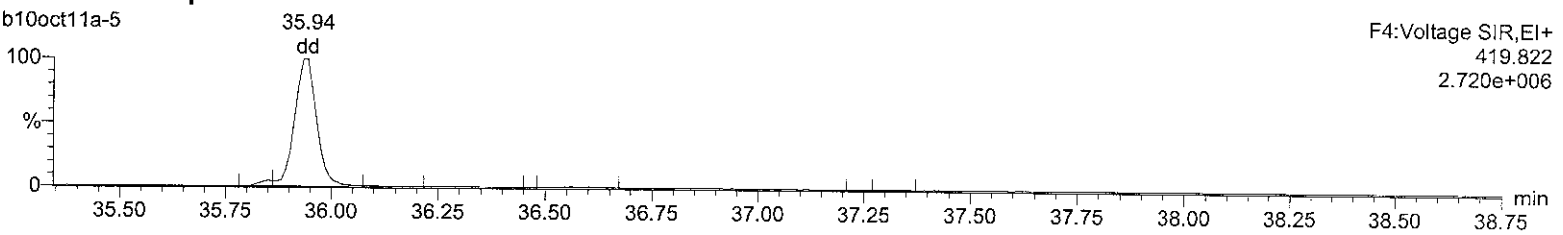
Total-heptafurans



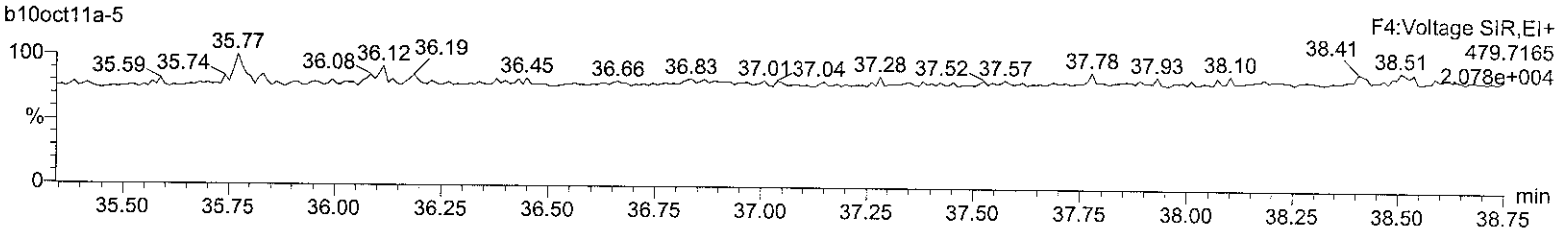
13C-1234678-HpCDF



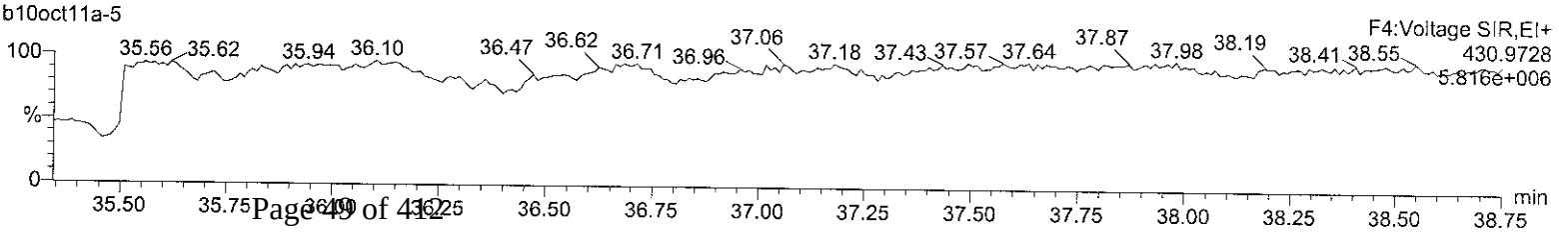
13C-1234678-HpCDF



NoDPE



Lock Mass F4



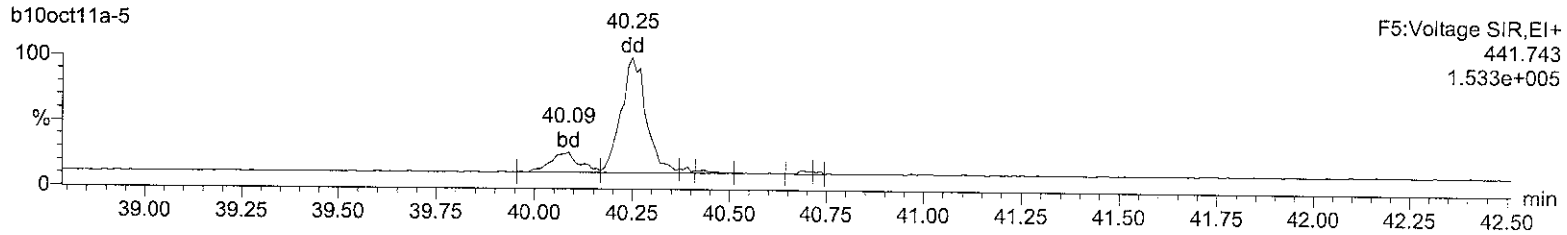
Quantify Sample Report **MassLynx 4.1**
Method 8290 Quantification Report

Dataset: C:\MassLynx\Default.pro\Sample Results\8290-b10oct11a.qld

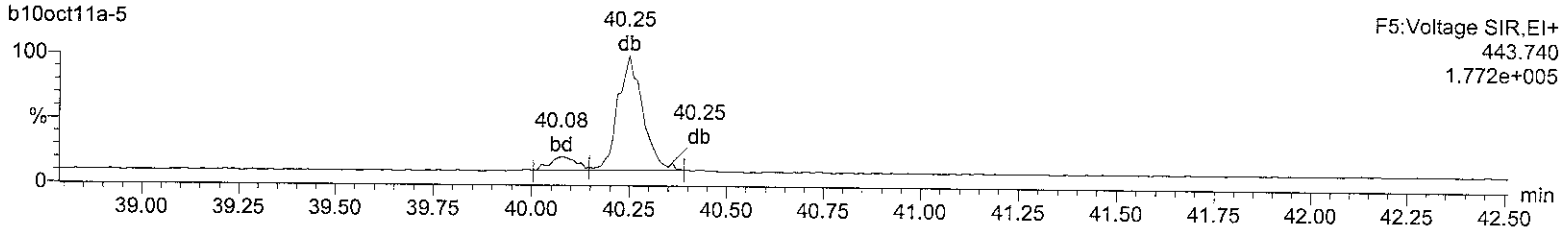
Last Altered: Tuesday, October 11, 2011 08:03:54 Eastern Standard Time
Printed: Tuesday, October 11, 2011 08:04:29 Eastern Standard Time

Name: b10oct11a-5, Date: 10-Oct-2011, Time: 16:18:26, ID: 2818001-1, Description: 19680, Job: HMS8290_1S, Task: HRP763_1, User: MJC

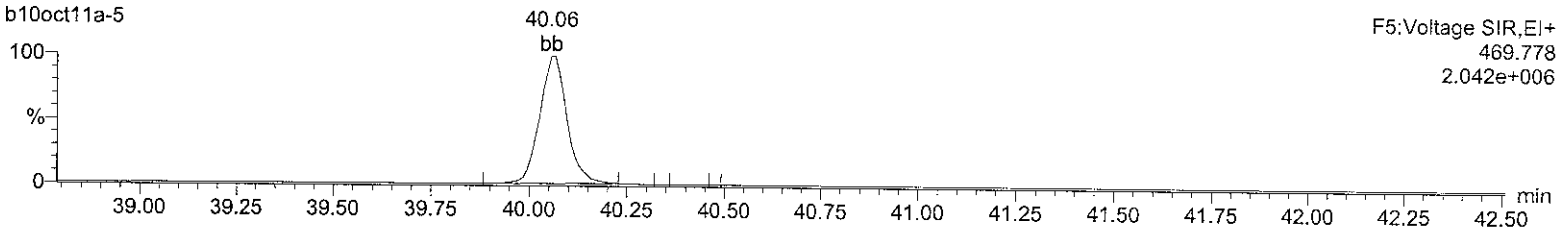
OCDF



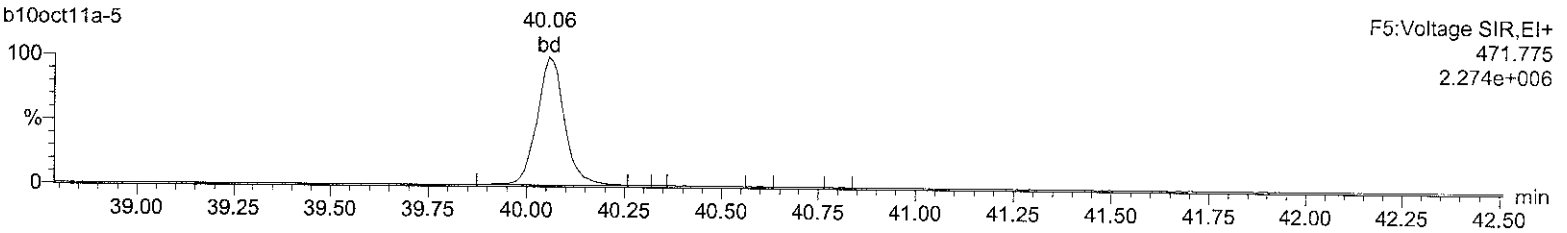
OCDF



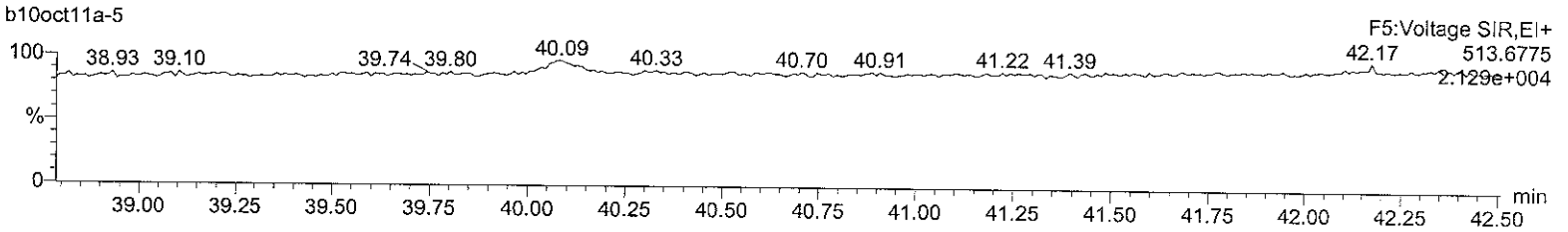
13C-OCDD



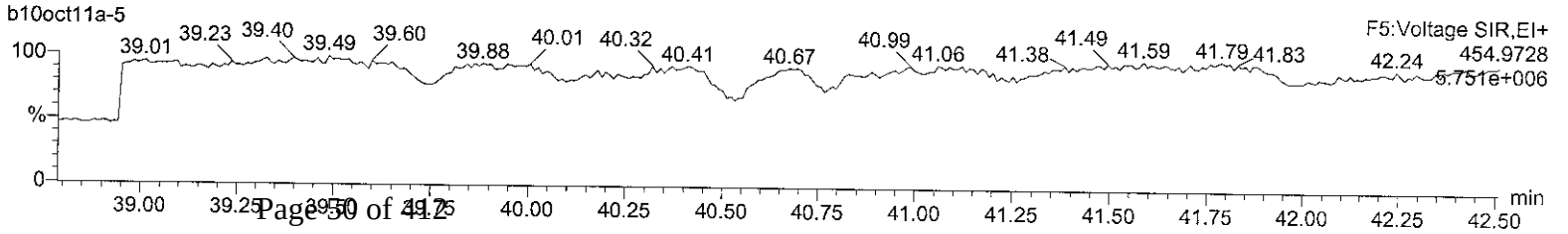
13C-OCDD



DeDPE



Lock Mass F5



Hi-Res Dioxins/Furans
Certificate of Analysis
Sample Summary

SDG Number:	**1109191**	**Client:**	**EMPI001**	**Project:**	**EMPI00311**
Lab Sample ID:	**2818003**	**Date Collected:**	**09/22/2011 10:55**	**Matrix:**	**SOLID**
Client Sample:	**8290 Soil**	**Date Received:**	**09/27/2011 11:45**	**%Moisture:**	**15.6**
Client ID:	**FLC-4-SBC-0204-092211**			**Prep Basis:**	**Dry Weight**
Batch ID:	**19680**	**Method:**	**SW846 8290A**		
Run Date:	**10/10/2011 18:32**	**Analyst:**	**MJC**	**Instrument:**	**HRP763**
Data File:	**b10oct11a-8**			**Dilution:**	**1**
Prep Batch:	**19663**	**Prep Method:**	**SW846 3540C**		
Prep Date:	**04-OCT-11**	**Aliquot:**	**13.25 g**		

CAS No.	Parmname	Qual	Result	EMPC	Units	EDL	PQL
1746-01-6	2,3,7,8-TCDD	U	.331		pg/g	0.331	0.894
40321-76-4	1,2,3,7,8-PeCDD	J	0.570		pg/g	0.309	4.47
39227-28-6	1,2,3,4,7,8-HxCDD	J	2.53		pg/g	0.341	4.47
57653-85-7	1,2,3,6,7,8-HxCDD		4.89		pg/g	0.316	4.47
19408-74-3	1,2,3,7,8,9-HxCDD		4.96		pg/g	0.354	4.47
35822-46-9	1,2,3,4,6,7,8-HpCDD		238		pg/g	0.853	4.47
3268-87-9	1,2,3,4,6,7,8,9-OCDD		1580		pg/g	1.27	8.94
51207-31-9	2,3,7,8-TCDF	U	.24		pg/g	0.240	0.894
57117-41-6	1,2,3,7,8-PeCDF	U	.341		pg/g	0.341	4.47
57117-31-4	2,3,4,7,8-PeCDF	U	.349		pg/g	0.349	4.47
70648-26-9	1,2,3,4,7,8-HxCDF	J	1.24		pg/g	0.277	4.47
57117-44-9	1,2,3,6,7,8-HxCDF	JK		0.241	pg/g	0.238	4.47
60851-34-5	2,3,4,6,7,8-HxCDF	J	0.418		pg/g	0.263	4.47
72918-21-9	1,2,3,7,8,9-HxCDF	U	.316		pg/g	0.316	4.47
67562-39-4	1,2,3,4,6,7,8-HpCDF	J	2.46		pg/g	0.270	4.47
55673-89-7	1,2,3,4,7,8,9-HpCDF	U	.37		pg/g	0.370	4.47
39001-02-0	1,2,3,4,6,7,8,9-OCDF	J	2.60		pg/g	0.661	8.94
41903-57-5	Total Tetrachlorodibenzo-p-dioxin	U	.331		pg/g	0.331	0.894
36088-22-9	Total Pentachlorodibenzo-p-dioxin	J	0.570	2.01	pg/g	0.309	4.47
34465-46-8	Total Hexachlorodibenzo-p-dioxin		57.4	61.0	pg/g	0.316	4.47
37871-00-4	Total Heptachlorodibenzo-p-dioxin		465		pg/g	0.853	4.47
30402-14-3	Total Tetrachlorodibenzofuran	U	.24		pg/g	0.240	0.894
30402-15-4	Total Pentachlorodibenzofuran	J	0.450	1.30	pg/g	0.176	4.47
55684-94-1	Total Hexachlorodibenzofuran		6.97	7.21	pg/g	0.238	4.47
38998-75-3	Total Heptachlorodibenzofuran		5.81		pg/g	0.270	4.47
3333-30-0	TEQ WHO2005 ND=0		4.85	4.87	pg/g		
3333-30-1	TEQ WHO2005 ND=0.5		5.11	5.13	pg/g		

Surrogate/Tracer recovery	Qual	Result	Nominal	Units	Recovery%	Acceptable Limits
13C-2,3,7,8-TCDD		143	179	pg/g	80.0	(40%-135%)
13C-1,2,3,7,8-PeCDD		138	179	pg/g	77.4	(40%-135%)
13C-1,2,3,6,7,8-HxCDD		130	179	pg/g	72.5	(40%-135%)
13C-1,2,3,4,6,7,8-HpCDD		154	179	pg/g	86.1	(40%-135%)
13C-OCDD		279	358	pg/g	78.0	(40%-135%)
13C-2,3,7,8-TCDF		147	179	pg/g	82.1	(40%-135%)
13C-1,2,3,7,8-PeCDF		121	179	pg/g	67.5	(40%-135%)
13C-1,2,3,6,7,8-HxCDF		117	179	pg/g	65.2	(40%-135%)
13C-1,2,3,4,6,7,8-HpCDF		134	179	pg/g	75.0	(40%-135%)

Comments:

J Value is estimated

K Estimated Maximum Possible Concentration

U Analyte was analyzed for , but not detected above the specified detection limit.

Quantify Sample Summary Report **MassLynx 4.1**
Method 8290 Quantification Report

Dataset: C:\MassLynx\Default.pro\Sample Results\8290-b10oct11a.qld

Last Altered: Tuesday, October 11, 2011 11:22:17 Eastern Standard Time
Printed: Tuesday, October 11, 2011 11:22:38 Eastern Standard Time

HMP
11Oct11

Method: C:\MassLynx\DEFAULT.PRO\MethDB\CFA_EPA8290_101011.mdb 10 Oct 2011 14:05:54
Calibration: C:\MassLynx\DEFAULT.PRO\CurveDB\8290-b01nov10b.cdb 02 Nov 2010 08:19:01

Name: b10oct11a-8, Date: 10-Oct-2011, Time: 18:32:23, ID: 2818003-1, Description: 19680, Job: HMS8290_1S, Task: HRP763_1, User: MJC

	Name	Ion1Area	Ion2Area	Response	RT	RRT	RA	Fail?	pg/uL	EDL	Height1	Noise1	S/N1	Height2	Noise2	S/N2	M
1	2378-TCDD	9.13e1	6.08e1	1.52e2	26.58	1.000	1.50	YES	0.058	0.185	1.78e3	970	1.8	2.06e3	949	2.2	bb
2	12378-PeCDD	4.09e2	2.94e2	7.03e2	32.08	1.000	1.39	NO	0.319	0.173	9.21e3	1981	4.6	7.61e3	1349	5.6	bd
3	123478-HxCDD	1.42e3	1.11e3	2.53e3	34.22	0.998	1.28	NO	1.413	0.191	2.86e4	1363	21.0	2.80e4	1459	19.2	bd
4	123678-HxCDD	2.81e3	2.48e3	5.29e3	34.28	1.000	1.13	NO	2.738	0.177	5.66e4	1363	41.5	5.27e4	1459	36.1	dd
5	123789-HxCDD	2.67e3	2.12e3	4.79e3	34.47	1.005	1.26	NO	2.772	0.198	5.53e4	1363	40.6	4.42e4	1459	30.3	db
6	1234678-HpCDD	1.17e5	1.12e5	2.28e5	36.79	1.000	1.04	NO	132.934	0.477	1.94e6	2701	717.1	1.85e6	2739	674.3	bb
7	OCDD	5.39e5	6.00e5	1.14e6	39.89	1.000	0.90	NO	884.526	0.712	6.86e6	1897	3617.2	7.34e6	2634	2788.6	bb
8	2378-TCDF	1.61e2	1.27e2	2.88e2	25.66	1.000	1.26	YES	0.067	0.134	2.38e3	1014	2.3	2.95e3	1249	2.4	db
9	12378-PeCDF	1.19e2	9.34e1	2.12e2	31.03	1.000	1.27	YES	0.069	0.191	3.63e3	1590	2.3	2.25e3	1528	1.5	bb
10	23478-PeCDF	1.73e2	7.22e1	2.46e2	31.85	1.026	2.40	YES	0.081	0.195	5.17e3	1590	3.2	1.94e3	1528	1.3	bb
11	123478-HxCDF	8.79e2	7.77e2	1.66e3	33.62	0.998	1.13	NO	0.692	0.155	2.21e4	1404	15.8	2.00e4	1652	12.1	dd
12	123678-HxCDF	1.83e2	1.93e2	3.76e2	33.72	1.001	0.95	YES	0.135	0.133	5.26e3	1404	3.7	4.91e3	1652	3.0	dd
13	234678-HxCDF	3.28e2	2.60e2	5.88e2	34.11	1.012	1.26	NO	0.234	0.147	8.13e3	1404	5.8	6.08e3	1652	3.7	bb
14	123789-HxCDF							NO		0.177		1404			1652		
15	1234678-HpCDF	1.73e3	1.80e3	3.53e3	35.85	1.001	0.96	NO	1.377	0.151	3.25e4	1832	17.7	3.45e4	936	36.8	bb
16	1234789-HpCDF	1.57e2	1.54e2	3.11e2	37.26	1.040	1.02	NO	0.167	0.207	3.51e3	1832	1.9	3.67e3	936	3.9	MM
17	OCDF	1.17e3	1.15e3	2.32e3	40.11	1.006	1.02	NO	1.456	0.370	1.32e4	1718	7.7	1.40e4	1192	11.7	MM
18	13C-2378-TCDD	1.15e5	1.45e5	2.60e5	26.56	1.028	0.79	NO	79.960	0.301	1.13e6	2408	470.2	1.37e6	1518	901.9	bb
19	13C-12378-PeCDD	1.31e5	8.24e4	2.13e5	32.06	1.241	1.59	NO	77.415	0.260	2.86e6	1885	1517.1	1.74e6	986	1761.5	bb
20	13C-123678-HxCDD	1.10e5	8.95e4	2.00e5	34.28	0.995	1.23	NO	72.526	0.171	2.27e6	1705	1333.8	1.85e6	2096	884.0	bb
21	13C-1234678-HpCDD	8.85e4	8.22e4	1.71e5	36.78	1.068	1.08	NO	86.069	0.183	1.47e6	1595	922.9	1.40e6	1339	1048.8	bb
22	13C-OCDD	1.22e5	1.36e5	2.58e5	39.88	1.158	0.90	NO	156.082	0.214	1.51e6	1078	1403.8	1.68e6	1783	942.9	bb
23	13C-2378-TCDF	1.90e5	2.43e5	4.34e5	25.66	0.993	0.78	NO	82.125	0.153	1.89e6	1361	1385.5	2.38e6	1888	1261.9	bb
24	13C-12378-PeCDF	2.00e5	1.31e5	3.31e5	31.03	1.201	1.52	NO	67.455	0.227	2.64e6	2152	1226.7	1.72e6	2323	738.5	bb
25	13C-123678-HxCDF	9.24e4	1.71e5	2.63e5	33.69	0.978	0.54	NO	65.220	0.110	1.91e6	1806	1055.3	3.67e6	1783	2059.4	db
26	13C-1234678-HpCDF	6.33e4	1.38e5	2.01e5	35.83	1.040	0.46	NO	75.006	0.153	1.13e6	1699	667.1	2.44e6	1617	1508.9	bd
27	13C-1234-TCDD	1.30e5	1.60e5	2.90e5	25.84	0.000	0.81	NO	100.000	0.337	1.30e6	2408	540.5	1.57e6	1518	1037.2	bb
28	13C-123789-HxCDD	1.38e5	1.10e5	2.48e5	34.46	0.000	1.25	NO	100.000	0.190	2.79e6	1705	1633.9	2.21e6	2096	1056.0	bb
29	37Cl-2378-TCDD (SS)									0.0666		720					
30	13C-23478-PeCDF (SS)	5.23e2	3.13e2	8.36e2	31.85	1.026	1.67	NO	0.271	0.274	9.87e3	2152	4.6	7.68e3	2323	3.3	bb

Quantify Totals Report MassLynx 4.1
Method 8290 Quantification Report

Dataset: C:\MassLynx\Default.pro\Sample Results\8290-b10oct11a.qld

Last Altered: Tuesday, October 11, 2011 11:22:17 Eastern Standard Time
Printed: Tuesday, October 11, 2011 11:22:38 Eastern Standard Time

Method: C:\MassLynx\DEFAULT.PRO\MethDB\CFA_EPA8290_101011.mdb 10 Oct 2011 14:05:54
Calibration: C:\MassLynx\DEFAULT.PRO\CurveDB\8290-b01nov10b.cdb 02 Nov 2010 08:19:01

Name: b10oct11a-8, Date: 10-Oct-2011, Time: 18:32:23, ID: 2818003-1, Description: 19680, Job: HMS8290_1S, Task: HRP763_1, User: MJC

TD

	Name	Ion1Area	Ion2Area	Response	RT	RA	Fail?	pg/uL	EDL	Height1	Noise1	S/N1	Height2	Noise2	S/N2	M
1	2378-TCDD	9.13e1	6.08e1	1.52e2	26.58	1.50	YES	0.058	0.185	1.78e3	970	1.8	2.06e3	949	2.2	bb
2	Total-tetradioxins	5.36e1	6.08e1	1.14e2	22.18	0.88	NO	0.044	0.185	1.51e3	970	1.6	1.48e3	949	1.6	bb

PD

	Name	Ion1Area	Ion2Area	Response	RT	RA	Fail?	pg/uL	EDL	Height1	Noise1	S/N1	Height2	Noise2	S/N2	M
1	12378-PeCDD	4.09e2	2.94e2	7.03e2	32.08	1.39	NO	0.319	0.173	9.21e3	1981	4.6	7.61e3	1349	5.6	bd
2	Total-pentadioxins	1.68e2	9.56e1	2.64e2	31.77	1.76	NO	0.120	0.173	5.27e3	1981	2.7	1.75e3	1349	1.3	bb
3	Total-pentadioxins	4.36e2	3.47e2	7.84e2	31.55	1.26	YES	0.356	0.173	9.90e3	1981	5.0	5.58e3	1349	4.1	bb
4	Total-pentadioxins	5.48e2	4.39e2	9.88e2	31.31	1.25	YES	0.449	0.173	8.95e3	1981	4.5	8.43e3	1349	6.3	bb
5	Total-pentadioxins	2.47e2	1.28e2	3.75e2	31.12	1.93	YES	0.170	0.173	4.74e3	1981	2.4	3.00e3	1349	2.2	bb
6	Total-pentadioxins	4.29e2	2.51e2	6.81e2	30.58	1.71	NO	0.309	0.173	6.59e3	1981	3.3	3.51e3	1349	2.6	db
7	Total-pentadioxins	9.85e1	7.42e1	1.73e2	30.50	1.33	NO	0.078	0.173	3.21e3	1981	1.6	2.98e3	1349	2.2	bd
8	Total-pentadioxins	1.57e2	1.01e2	2.58e2	29.94	1.55	NO	0.117	0.173	5.26e3	1981	2.7	3.19e3	1349	2.4	dd
9	Total-pentadioxins	5.71e1	8.89e1	1.46e2	29.83	0.64	YES	0.066	0.173	2.35e3	1981	1.2	3.33e3	1349	2.5	bd
10	Total-pentadioxins	1.73e2	1.37e2	3.11e2	32.29	1.27	YES	0.141	0.173	6.84e3	1981	3.5	3.21e3	1349	2.4	bb
11	Total-pentadioxins	1.46e2	1.17e2	2.63e2	32.14	1.24	YES	0.119	0.173	5.27e3	1981	2.7	3.53e3	1349	2.6	db

HD

	Name	Ion1Area	Ion2Area	Response	RT	RA	Fail?	pg/uL	EDL	Height1	Noise1	S/N1	Height2	Noise2	S/N2	M
1	123789-HxCDD	2.67e3	2.12e3	4.79e3	34.47	1.26	NO	2.772	0.198	5.53e4	1363	40.6	4.42e4	1459	30.3	db
2	Total-hexadioxins	1.44e3	1.27e3	2.71e3	34.40	1.13	NO	1.489	0.188	2.99e4	1363	21.9	2.75e4	1459	18.9	dd
3	123678-HxCDD	2.81e3	2.48e3	5.29e3	34.28	1.13	NO	2.738	0.177	5.66e4	1363	41.5	5.27e4	1459	36.1	dd
4	123478-HxCDD	1.42e3	1.11e3	2.53e3	34.22	1.28	NO	1.413	0.191	2.86e4	1363	21.0	2.80e4	1459	19.2	bd
5	Total-hexadioxins	1.45e4	1.13e4	2.58e4	33.77	1.28	NO	14.199	0.188	2.83e5	1363	207.9	2.15e5	1459	147.1	MM
6	Total-hexadioxins	2.25e3	1.42e3	3.67e3	33.60	1.58	YES	2.017	0.188	4.95e4	1363	36.3	3.57e4	1459	24.5	bb
7	Total-hexadioxins	8.41e3	7.25e3	1.57e4	33.23	1.16	NO	8.612	0.188	2.04e5	1363	149.4	1.86e5	1459	127.3	bb
8	Total-hexadioxins	8.28e2	7.38e2	1.57e3	33.84	1.12	NO	0.862	0.188	2.02e4	1363	14.8	1.70e4	1459	11.7	MM

Quantify Totals Report MassLynx 4.1
Method 8290 Quantification Report

Dataset: C:\MassLynx\Default.pro\Sample Results\8290-b10oct11a.qld

Last Altered: Tuesday, October 11, 2011 11:22:17 Eastern Standard Time
Printed: Tuesday, October 11, 2011 11:22:38 Eastern Standard Time

Name: b10oct11a-8, Date: 10-Oct-2011, Time: 18:32:23, ID: 2818003-1, Description: 19680, Job: HMS8290_1S, Task: HRP763_1, User: MJC

HPD

	Name	Ion1Area	Ion2Area	Response	RT	RA	Fail?	pg/uL	EDL	Height1	Noise1	S/N1	Height2	Noise2	S/N2	M
1	Total-heptadioxins	8.45e1	1.11e2	1.96e2	37.86	0.76	YES	0.114	0.477	3.45e3	2701	1.3	4.95e3	2739	1.8	bb
2	1234678-HpCDD	1.17e5	1.12e5	2.28e5	36.79	1.04	NO	132.934	0.477	1.94e6	2701	717.1	1.85e6	2739	674.3	bb
3	Total-heptadioxins	1.12e5	1.06e5	2.18e5	36.10	1.05	NO	127.102	0.477	1.97e6	2701	730.9	1.83e6	2739	668.8	MM
4	Total-heptadioxins	6.58e3	5.82e3	1.24e4	36.18	1.13	NO	7.225	0.477	2.01e5	2701	74.2	1.83e5	2739	66.9	MM

TF

	Name	Ion1Area	Ion2Area	Response	RT	RA	Fail?	pg/uL	EDL	Height1	Noise1	S/N1	Height2	Noise2	S/N2	M
1	2378-TCDF	1.61e2	1.27e2	2.88e2	25.66	1.26	YES	0.067	0.134	2.38e3	1014	2.3	2.95e3	1249	2.4	db
2	Total-tetrafurans	1.42e2	1.92e2	3.34e2	24.74	0.74	NO	0.078	0.134	1.91e3	1014	1.9	4.29e3	1249	3.4	db
3	Total-tetrafurans	1.12e2	9.64e1	2.09e2	22.88	1.16	YES	0.049	0.134	3.48e3	1014	3.4	2.50e3	1249	2.0	bb
4	Total-tetrafurans	8.76e1	5.59e1	1.44e2	27.67	1.57	YES	0.034	0.134	2.75e3	1014	2.7	2.26e3	1249	1.8	bb

PF1

	Name	Ion1Area	Ion2Area	Response	RT	RA	Fail?	pg/uL	EDL	Height1	Noise1	S/N1	Height2	Noise2	S/N2	M
1	Total-pentafurans (F1)	8.23e2	6.26e2	1.45e3	27.81	1.31	YES	0.474	0.0984	1.05e4	682	15.3	8.14e3	910	8.9	bb

PF

	Name	Ion1Area	Ion2Area	Response	RT	RA	Fail?	pg/uL	EDL	Height1	Noise1	S/N1	Height2	Noise2	S/N2	M
1	23478-PeCDF	1.73e2	7.22e1	2.46e2	31.85	2.40	YES	0.081	0.195	5.17e3	1590	3.2	1.94e3	1528	1.3	bb
2	12378-PeCDF	1.19e2	9.34e1	2.12e2	31.03	1.27	YES	0.069	0.191	3.63e3	1590	2.3	2.25e3	1528	1.5	bb
3	Total-pentafurans	1.26e2	6.25e1	1.89e2	30.66	2.02	YES	0.062	0.193	5.13e3	1590	3.2	2.35e3	1528	1.5	db
4	Total-pentafurans	4.59e2	3.11e2	7.70e2	29.82	1.47	NO	0.252	0.193	6.51e3	1590	4.1	8.11e3	1528	5.3	db
5	Total-pentafurans	1.85e2	2.27e2	4.12e2	29.76	0.81	YES	0.135	0.193	5.98e3	1590	3.8	6.48e3	1528	4.2	dd
6	Total-pentafurans	8.54e1	8.28e1	1.68e2	29.69	1.03	YES	0.055	0.193	2.55e3	1590	1.6	4.14e3	1528	2.7	bd

Quantify Totals Report MassLynx 4.1
Method 8290 Quantification Report

Dataset: C:\MassLynx\Default.pro\Sample Results\8290-b10oct11a.qld

Last Altered: Tuesday, October 11, 2011 11:22:17 Eastern Standard Time
Printed: Tuesday, October 11, 2011 11:22:38 Eastern Standard Time

Name: b10oct11a-8, Date: 10-Oct-2011, Time: 18:32:23, ID: 2818003-1, Description: 19680, Job: HMS8290_1S, Task: HRP763_1, User: MJC

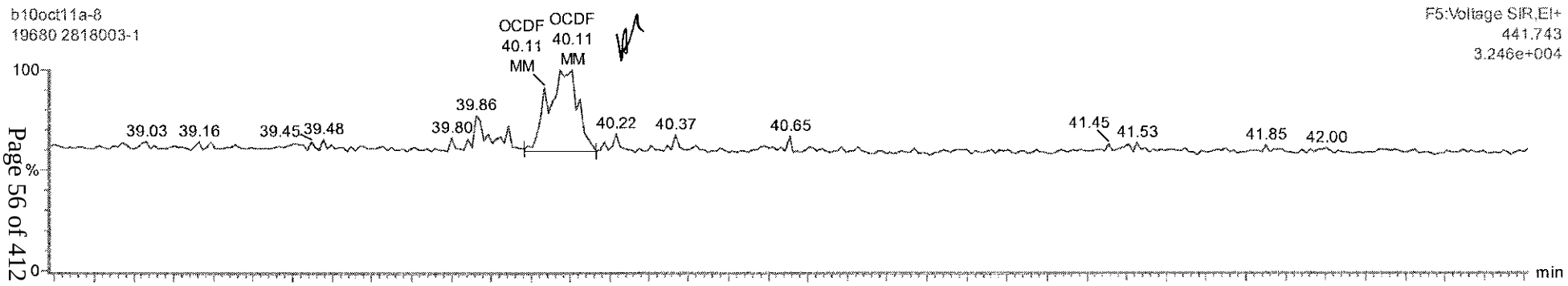
LF

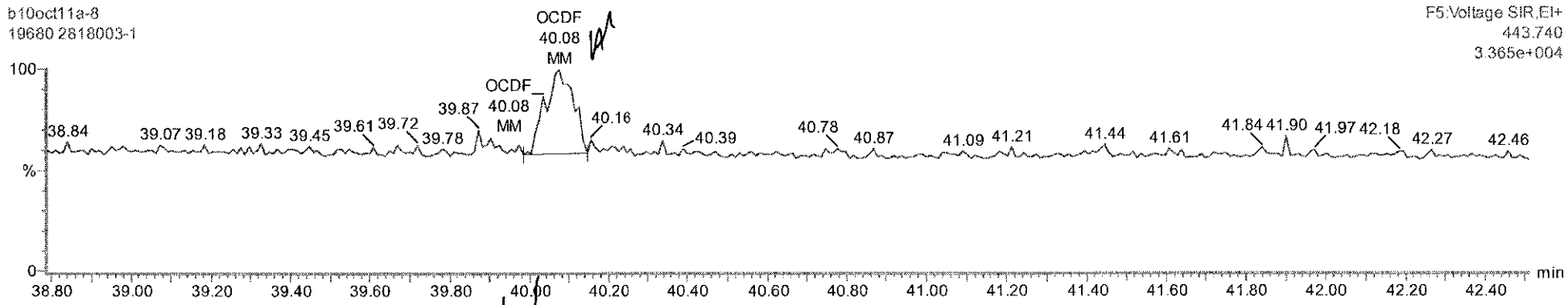
	Name	Ion1Area	Ion2Area	Response	RT	RA	Fail?	pg/uL	EDL	Height1	Noise1	S/N1	Height2	Noise2	S/N2	M
1	Total-hexafurans	1.38e3	1.21e3	2.59e3	32.97	1.14	NO	1.060	0.151	3.35e4	1404	23.9	2.95e4	1652	17.8	dd
2	Total-hexafurans	2.52e2	1.89e2	4.41e2	32.86	1.34	NO	0.180	0.151	8.84e3	1404	6.3	5.58e3	1652	3.4	bd
3	234678-HxCDF	3.28e2	2.60e2	5.88e2	34.11	1.26	NO	0.234	0.147	8.13e3	1404	5.8	6.08e3	1652	3.7	bb
4	Total-hexafurans	1.57e2	8.41e1	2.41e2	33.79	1.86	YES	0.098	0.151	3.94e3	1404	2.8	3.16e3	1652	1.9	db
5	123678-HxCDF	1.83e2	1.93e2	3.76e2	33.72	0.95	YES	0.135	0.133	5.26e3	1404	3.7	4.91e3	1652	3.0	dd
6	123478-HxCDF	8.79e2	7.77e2	1.66e3	33.62	1.13	NO	0.692	0.155	2.21e4	1404	15.8	2.00e4	1652	12.1	dd
7	Total-hexafurans	1.15e2	7.38e1	1.89e2	33.56	1.56	YES	0.077	0.151	4.00e3	1404	2.8	3.28e3	1652	2.0	dd
8	Total-hexafurans	2.26e3	1.98e3	4.24e3	33.33	1.14	NO	1.735	0.151	5.70e4	1404	40.6	5.03e4	1652	30.4	bd

HPF

	Name	Ion1Area	Ion2Area	Response	RT	RA	Fail?	pg/uL	EDL	Height1	Noise1	S/N1	Height2	Noise2	S/N2	M
1	1234789-HpCDF	1.57e2	1.54e2	3.11e2	37.26	1.02	NO	0.167	0.207	3.51e3	1832	1.9	3.67e3	936	3.9	MM
2	Total-heptafurans	1.54e3	1.65e3	3.19e3	36.24	0.93	NO	1.440	0.174	2.33e4	1832	12.7	2.65e4	936	28.3	db
3	Total-heptafurans	4.91e2	4.69e2	9.60e2	36.10	1.05	NO	0.433	0.174	1.27e4	1832	6.9	9.39e3	936	10.0	bd
4	1234678-HpCDF	1.73e3	1.80e3	3.53e3	35.85	0.96	NO	1.377	0.151	3.25e4	1832	17.7	3.45e4	936	36.8	bb

MANUAL INTEGRATION





7/10/11/11

HMP 11Oct11

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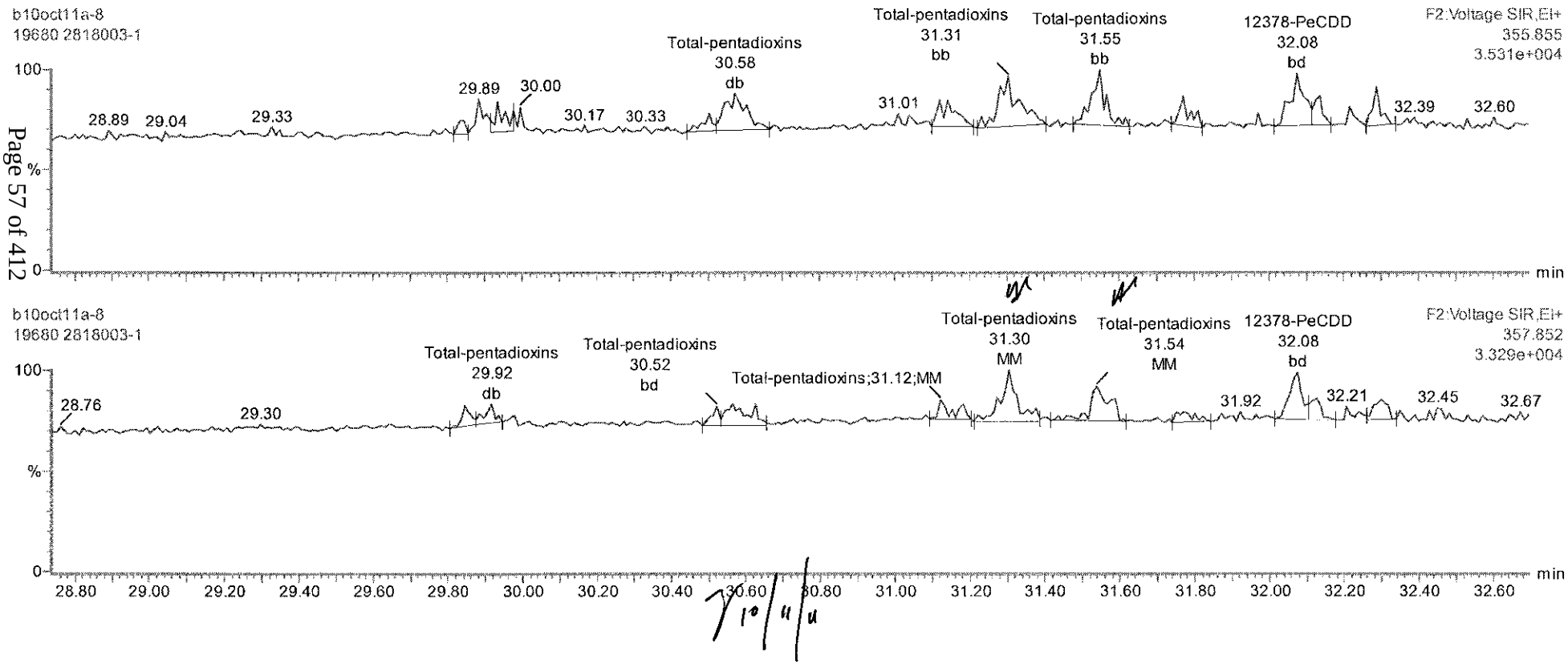

HMP 11Oct11

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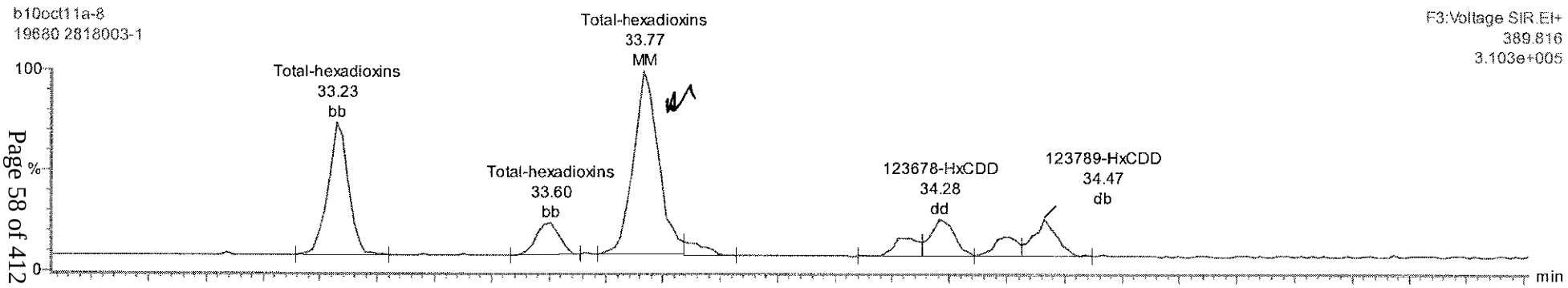

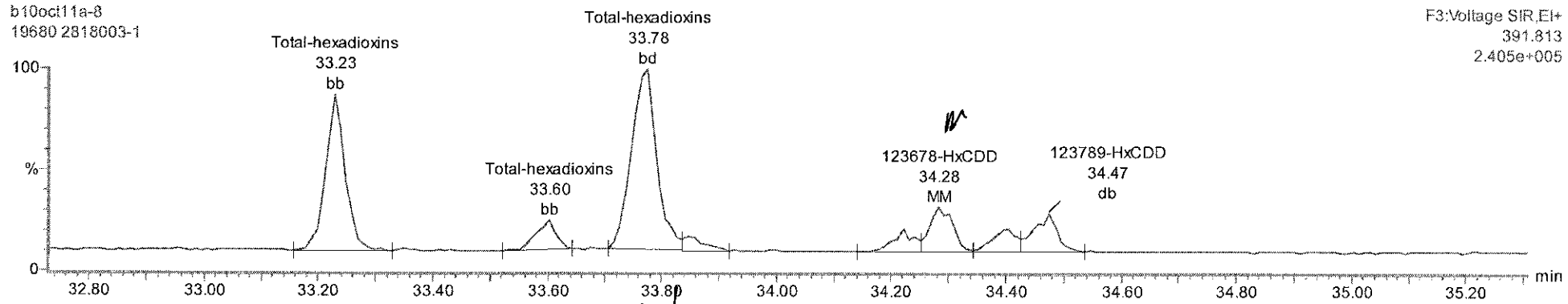

Y 10/11/11

HMP 11Oct11

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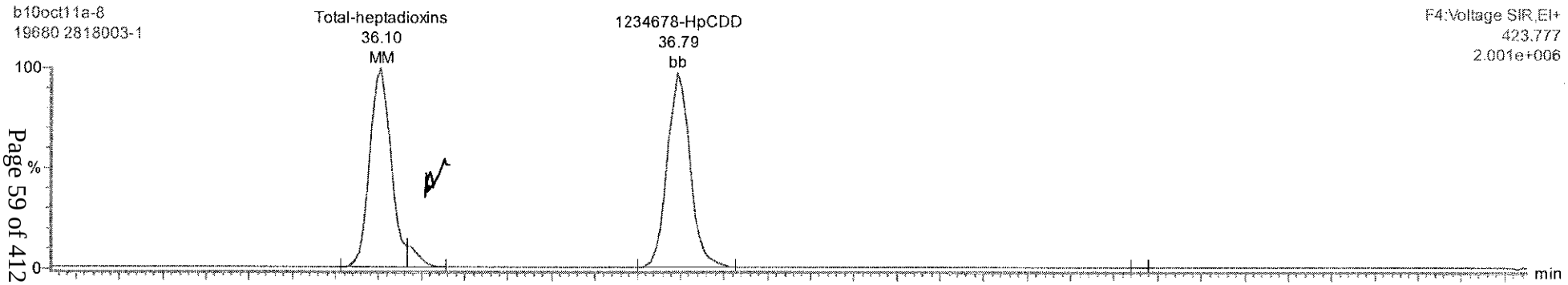

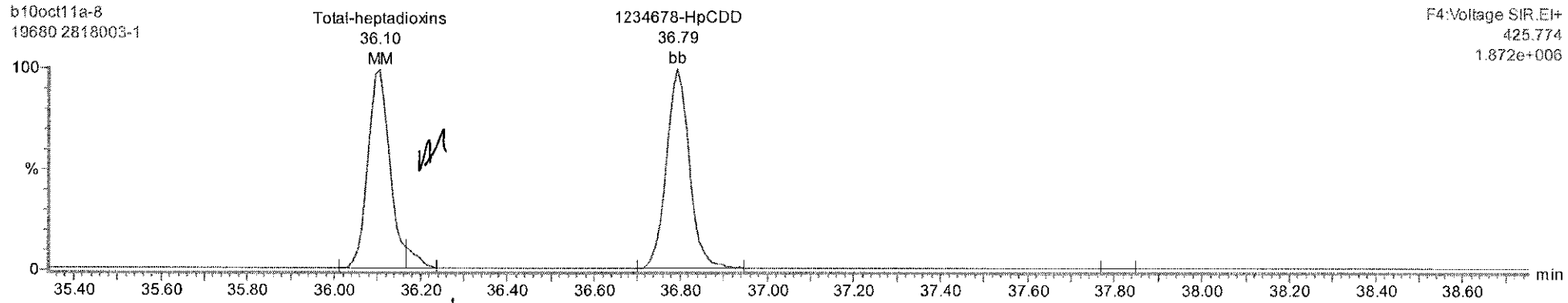

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HMP 11Oct11

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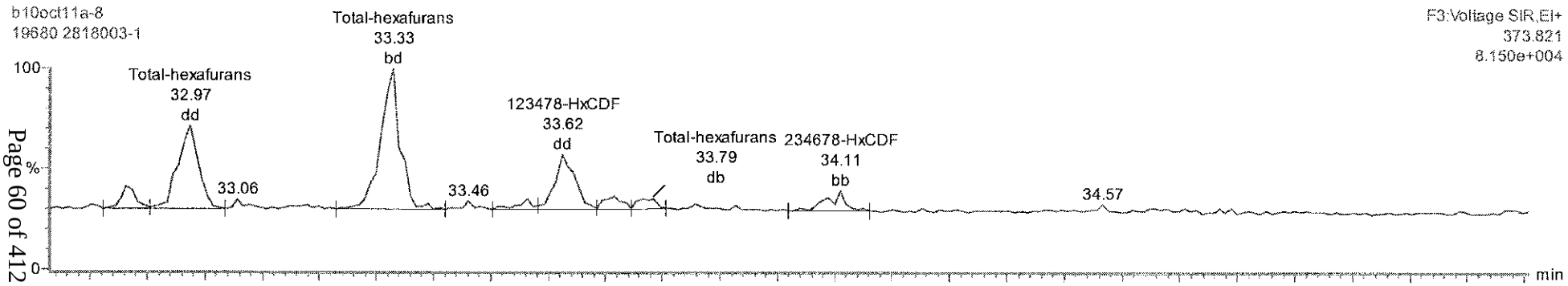

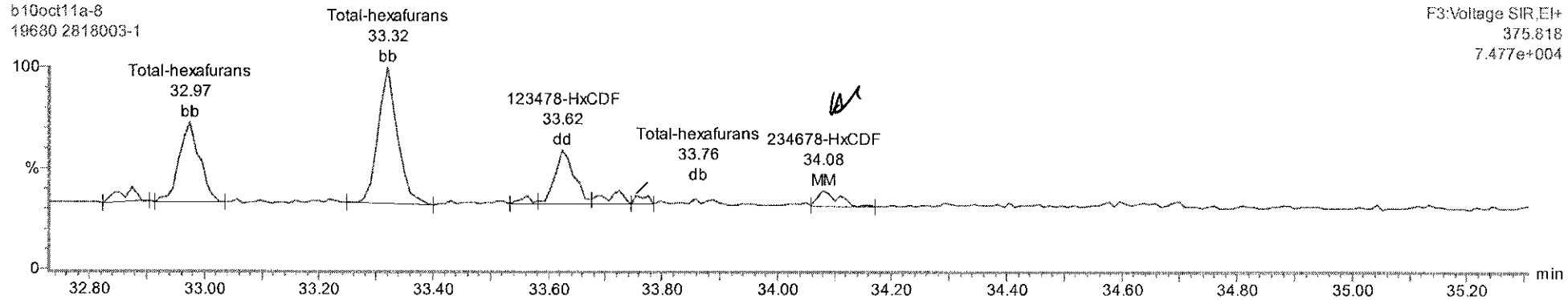

10/11/11

HMP 11Oct11

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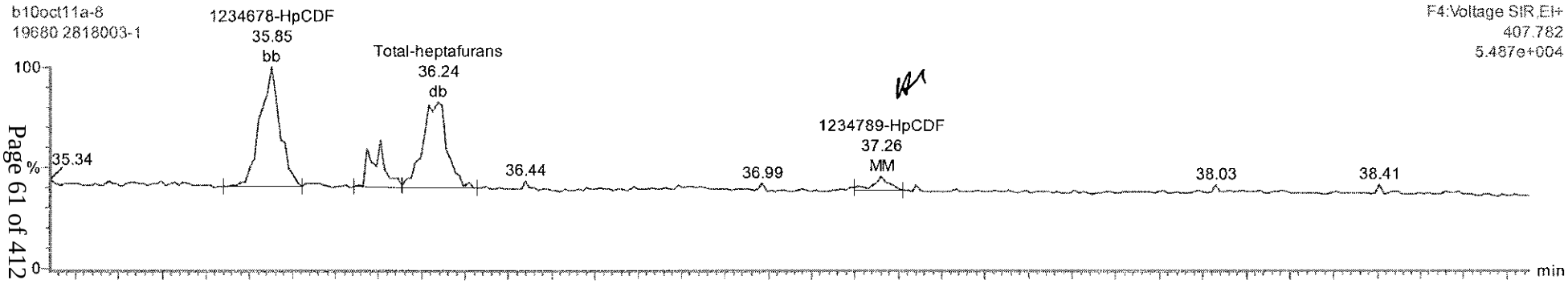
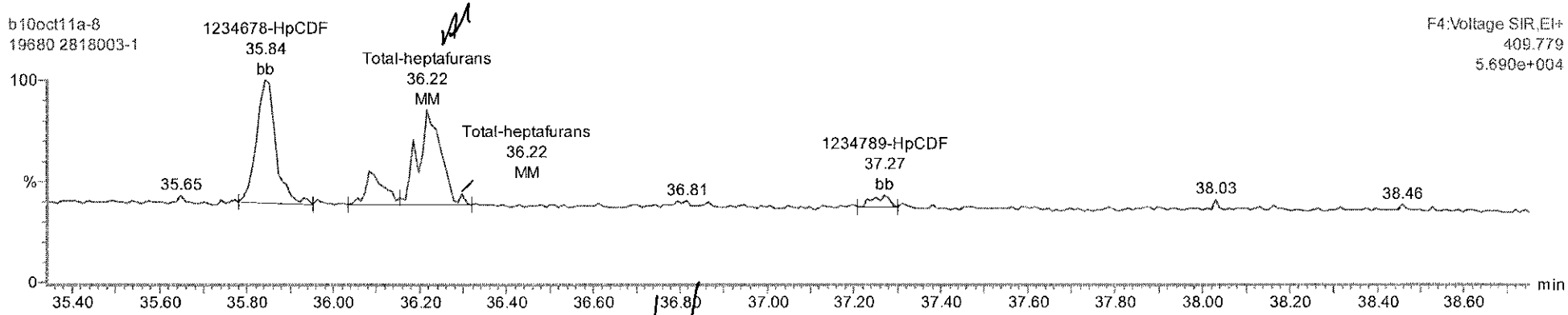




7/10/11/11

HMP 11Oct11

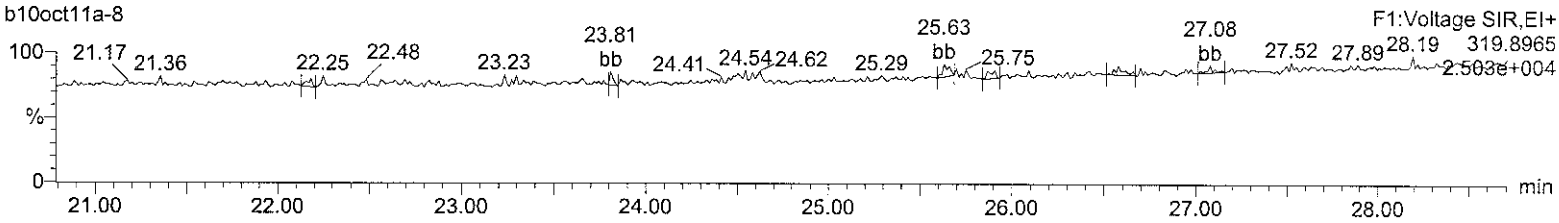
Quantify Sample Report **MassLynx 4.1**
Method 8290 Quantification Report

Dataset: C:\MassLynx\Default.pro\Sample Results\8290-b10oct11a.qld

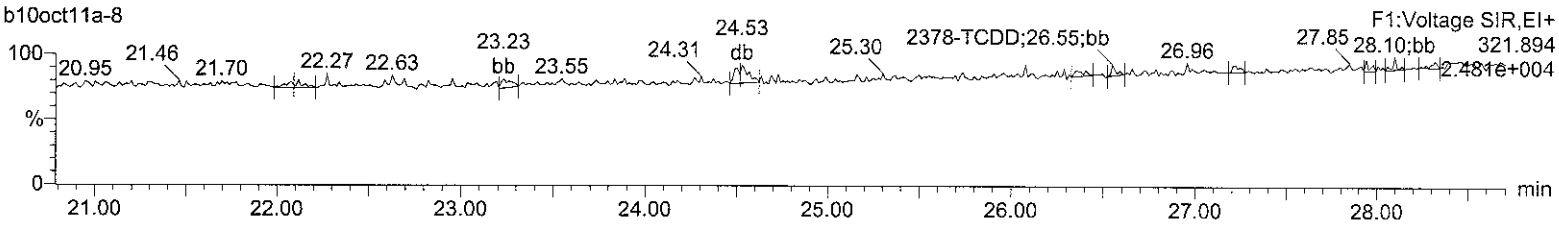
Last Altered: Tuesday, October 11, 2011 08:03:54 Eastern Standard Time
Printed: Tuesday, October 11, 2011 08:04:29 Eastern Standard Time

Name: b10oct11a-8, Date: 10-Oct-2011, Time: 18:32:23, ID: 2818003-1, Description: 19680, Job: HMS8290_1S, Task: HRP763_1, User: MJC

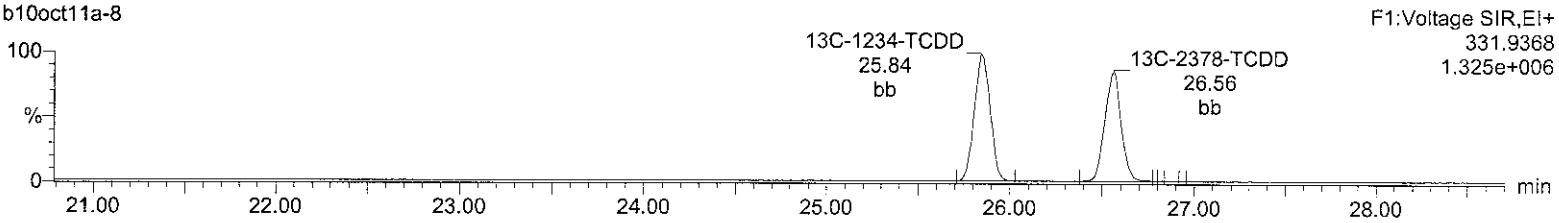
Total-tetradioxins



Total-tetradioxins



13C-2378-TCDD



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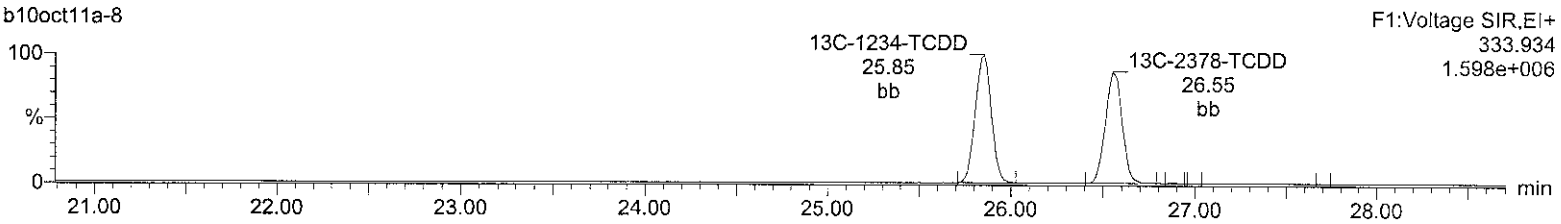
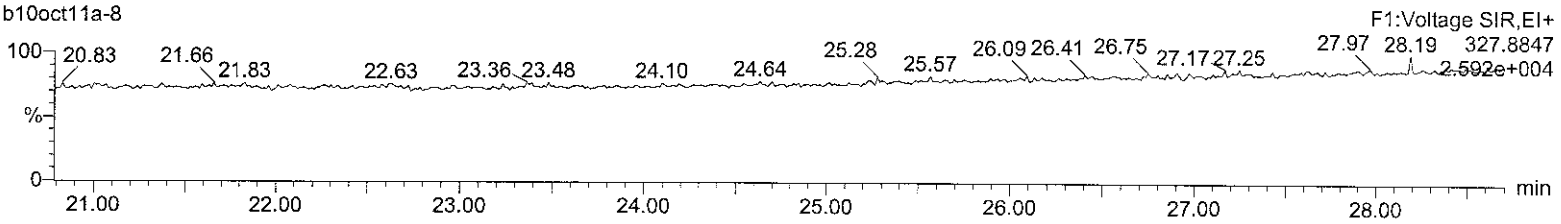
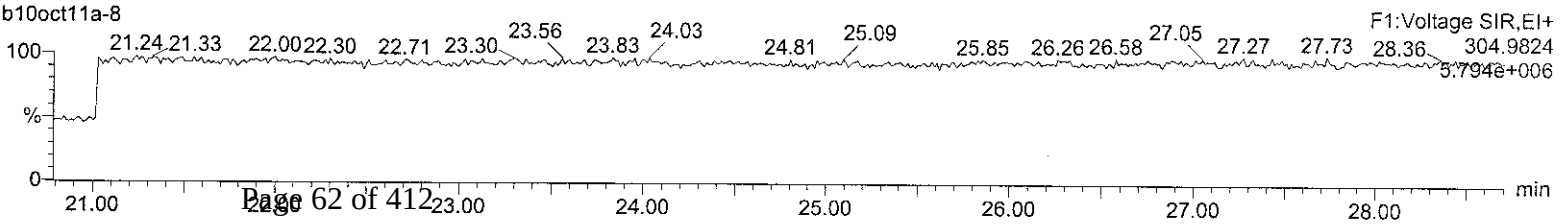


37Cl-2378-TCDD (SS)



Lock Mass F1



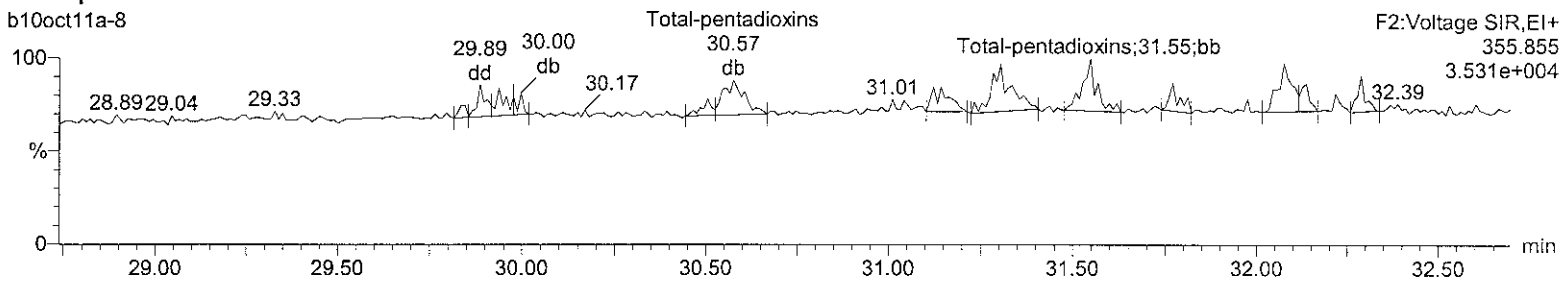
Quantify Sample Report **MassLynx 4.1**
Method 8290 Quantification Report

Dataset: C:\MassLynx\Default.pro\Sample Results\8290-b10oct11a.qld

Last Altered: Tuesday, October 11, 2011 08:03:54 Eastern Standard Time
Printed: Tuesday, October 11, 2011 08:04:29 Eastern Standard Time

Name: b10oct11a-8, Date: 10-Oct-2011, Time: 18:32:23, ID: 2818003-1, Description: 19680, Job: HMS8290_1S, Task: HRP763_1, User: MJC

Total-pentadioxins



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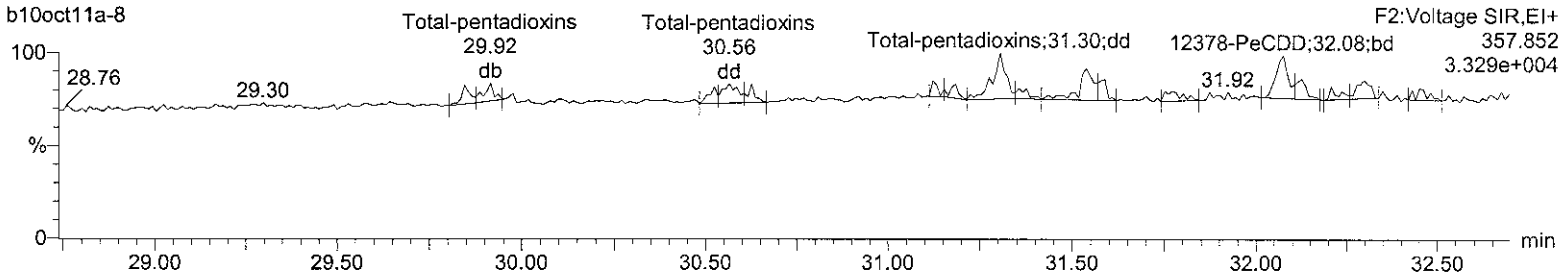

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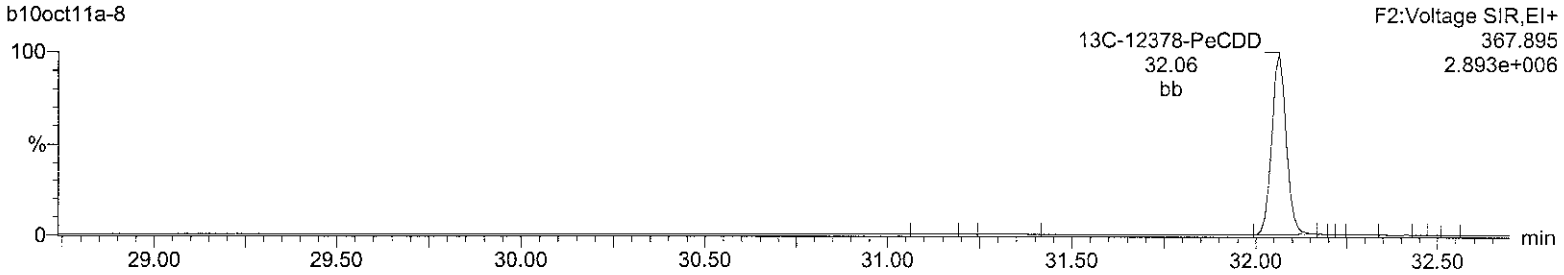
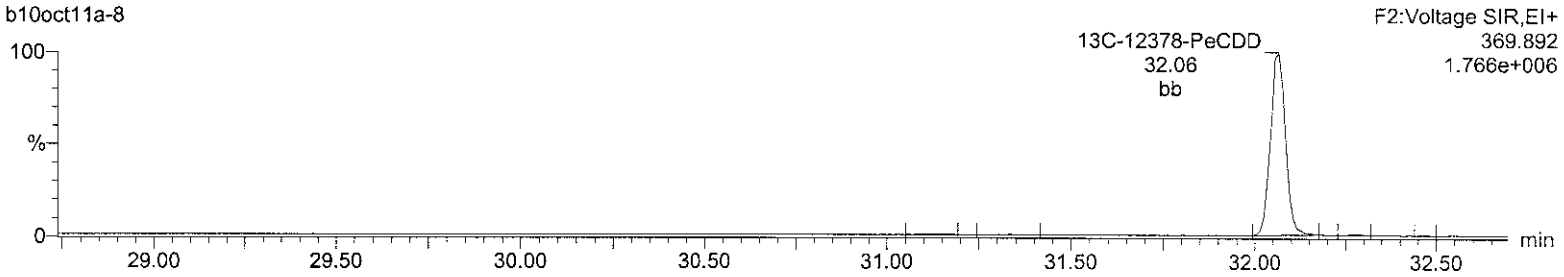
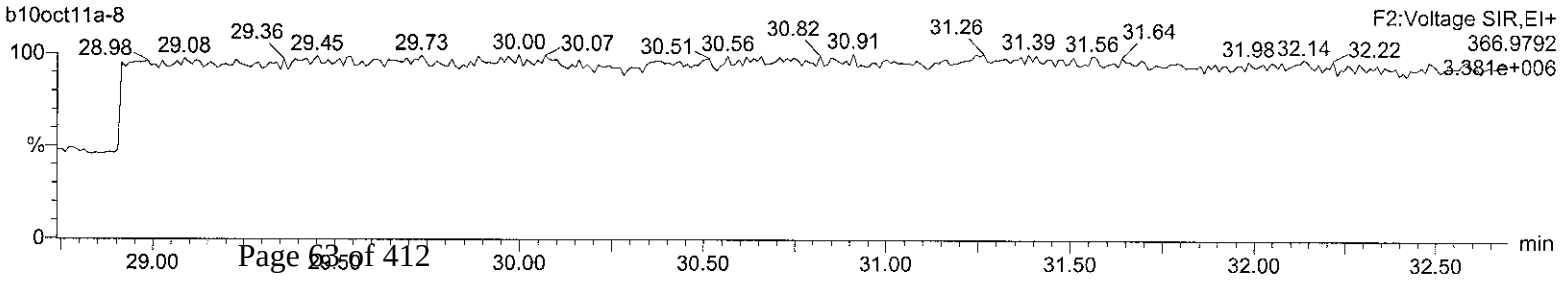


13C-12378-PeCDD



Lock Mass F2



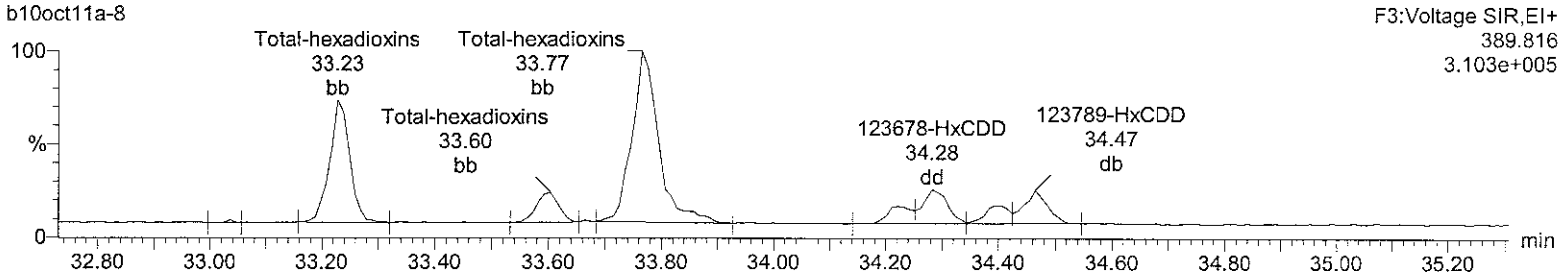
Quantify Sample Report **MassLynx 4.1**
Method 8290 Quantification Report

Dataset: C:\MassLynx\Default.pro\Sample Results\8290-b10oct11a.qld

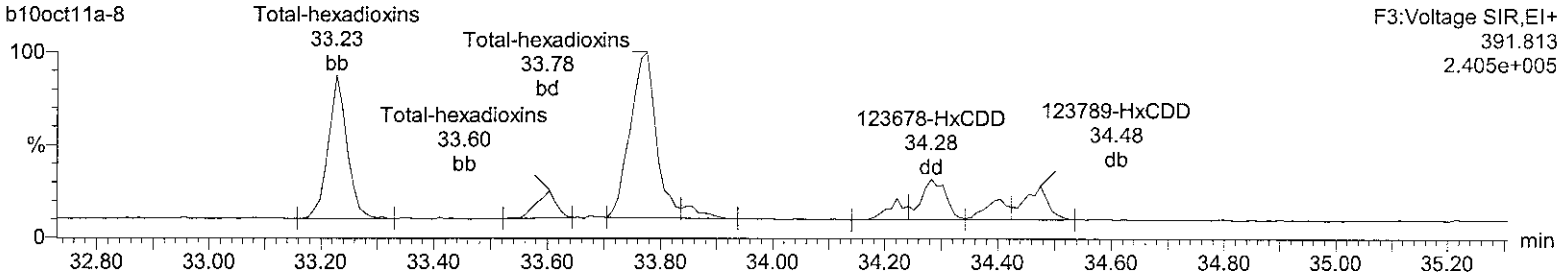
Last Altered: Tuesday, October 11, 2011 08:03:54 Eastern Standard Time
Printed: Tuesday, October 11, 2011 08:04:29 Eastern Standard Time

Name: b10oct11a-8, Date: 10-Oct-2011, Time: 18:32:23, ID: 2818003-1, Description: 19680, Job: HMS8290_1S, Task: HRP763_1, User: MJC

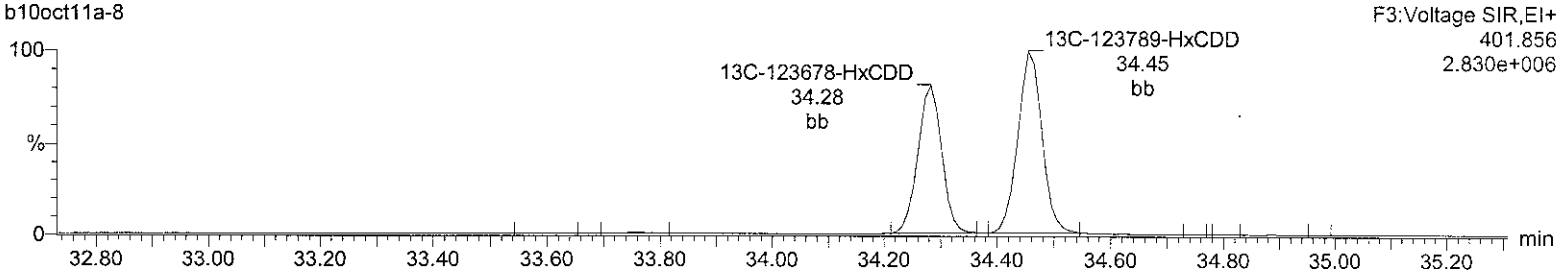
Total-hexadioxins



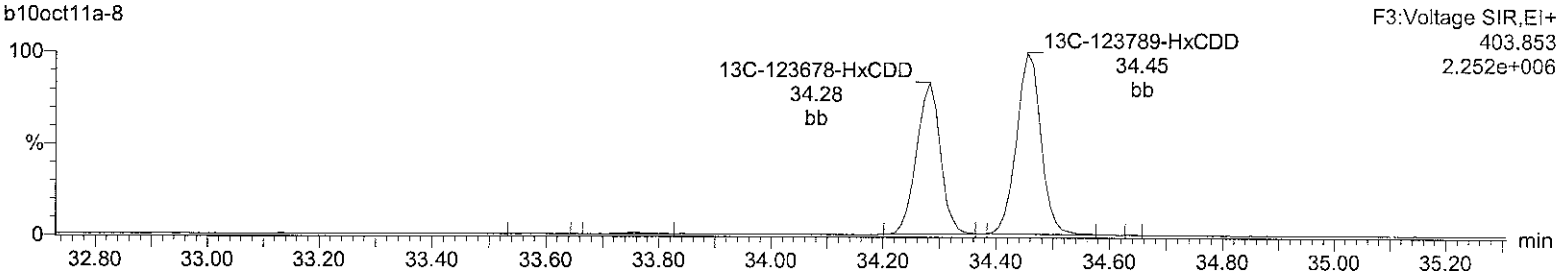
Total-hexadioxins



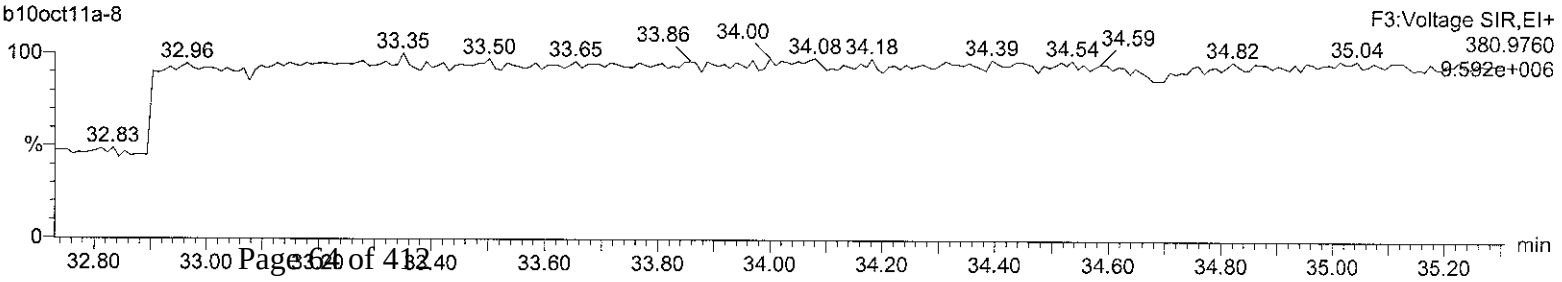
13C-123678-HxCDD



13C-123678-HxCDD



Lock Mass F3



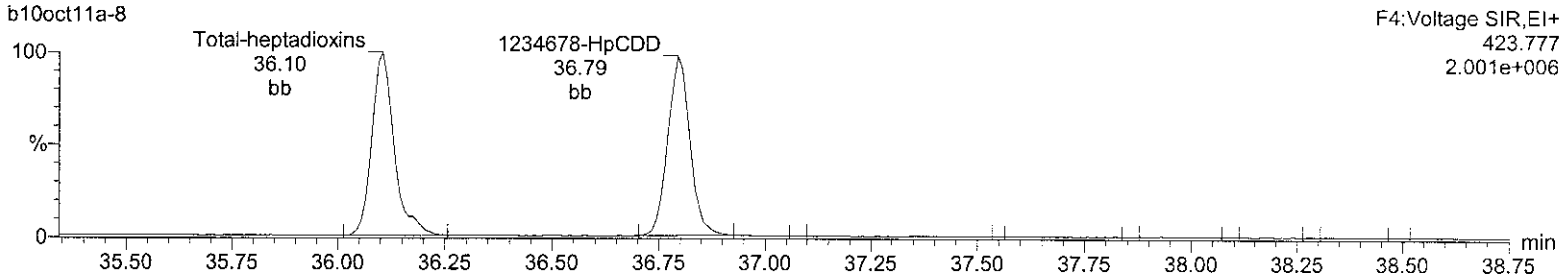
Quantify Sample Report **MassLynx 4.1**
Method 8290 Quantification Report

Dataset: C:\MassLynx\Default.pro\Sample Results\8290-b10oct11a.qld

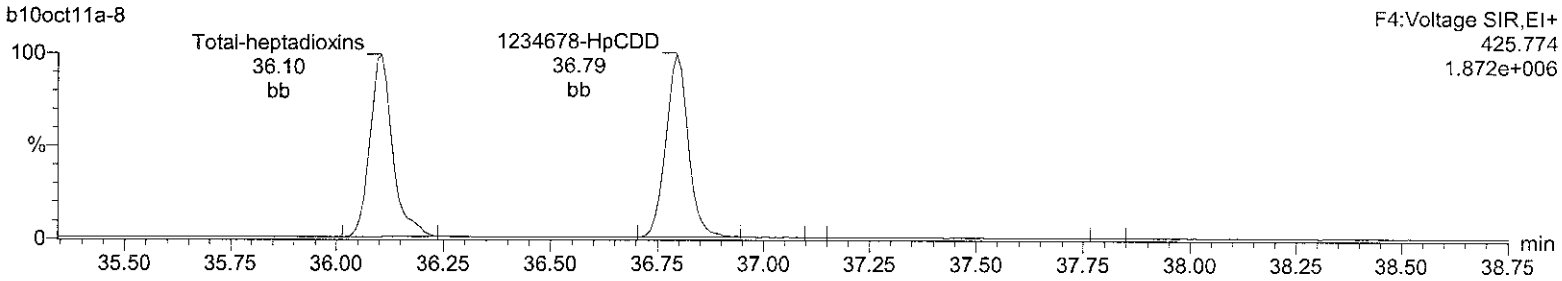
Last Altered: Tuesday, October 11, 2011 08:03:54 Eastern Standard Time
Printed: Tuesday, October 11, 2011 08:04:29 Eastern Standard Time

Name: b10oct11a-8, Date: 10-Oct-2011, Time: 18:32:23, ID: 2818003-1, Description: 19680, Job: HMS8290_1S, Task: HRP763_1, User: MJC

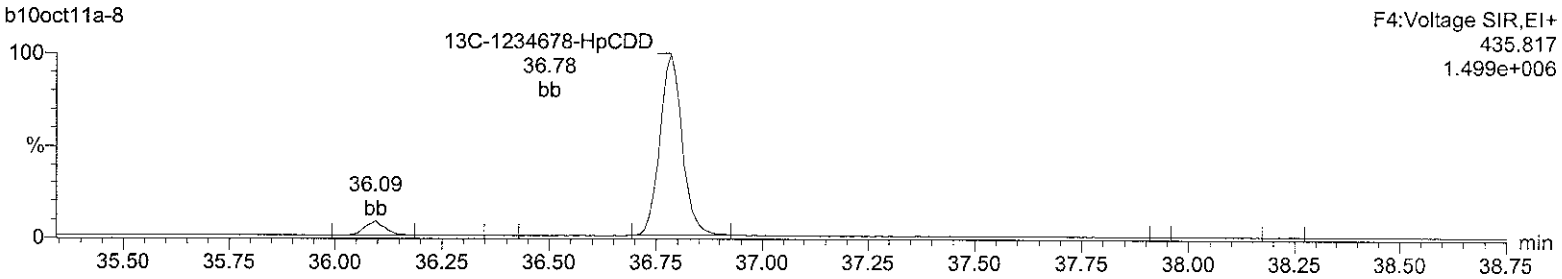
Total-heptadioxins



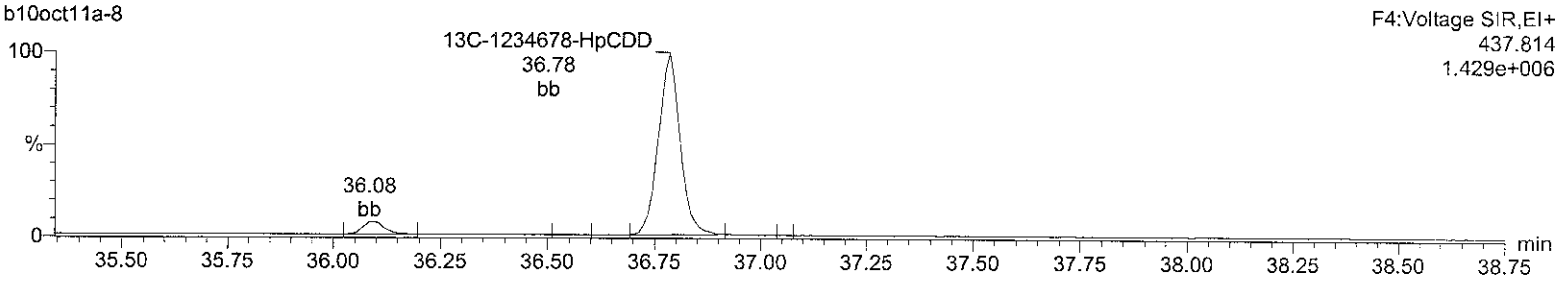
Total-heptadioxins



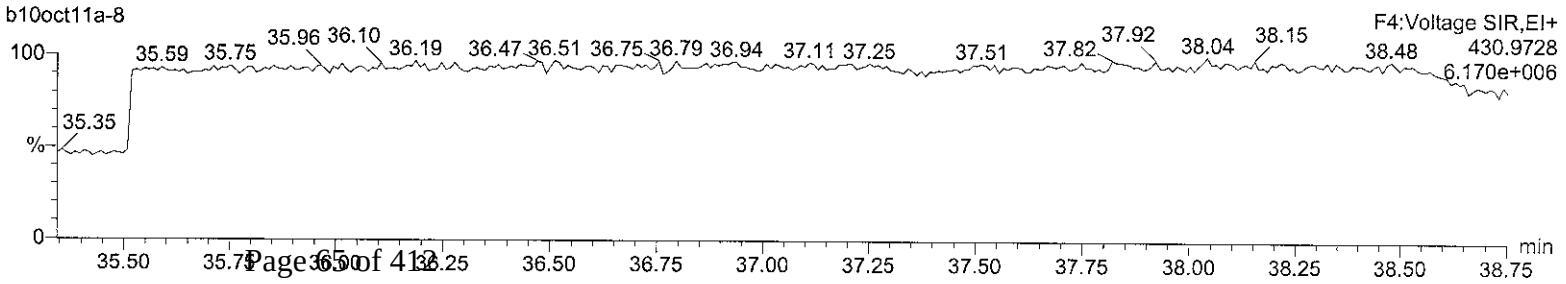
13C-1234678-HpCDD



13C-1234678-HpCDD



Lock Mass F4



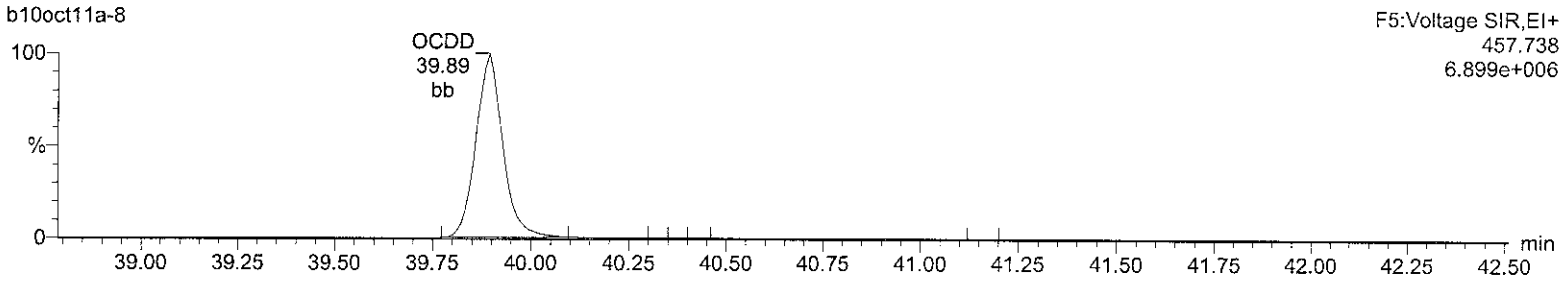
Quantify Sample Report **MassLynx 4.1**
Method 8290 Quantification Report

Dataset: C:\MassLynx\Default.pro\Sample Results\8290-b10oct11a.qld

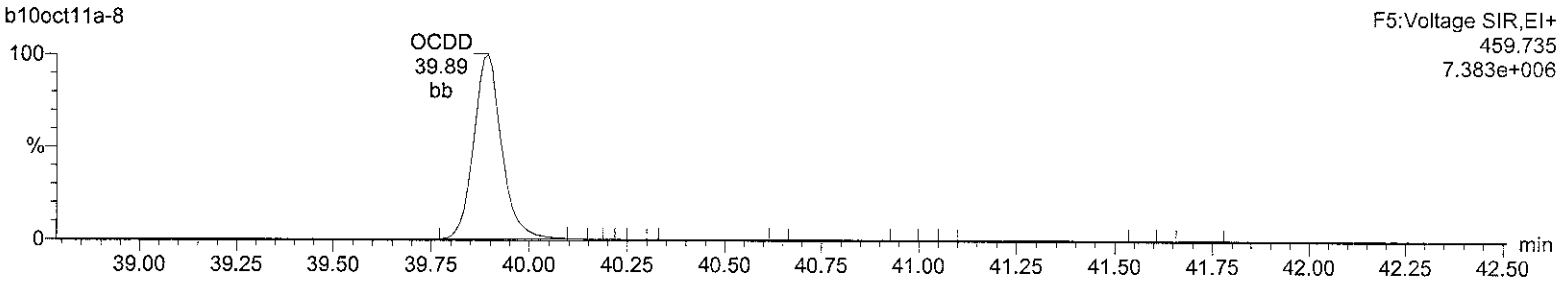
Last Altered: Tuesday, October 11, 2011 08:03:54 Eastern Standard Time
Printed: Tuesday, October 11, 2011 08:04:29 Eastern Standard Time

Name: b10oct11a-8, Date: 10-Oct-2011, Time: 18:32:23, ID: 2818003-1, Description: 19680, Job: HMS8290_1S, Task: HRP763_1, User: MJC

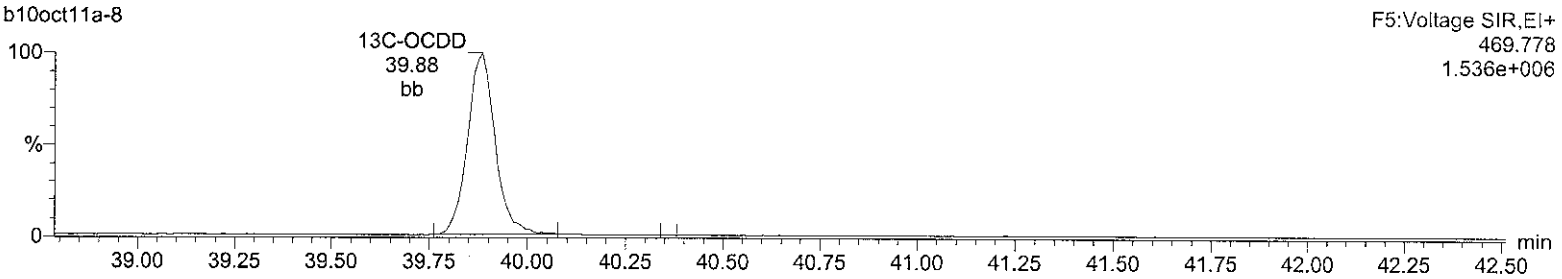
OCDD



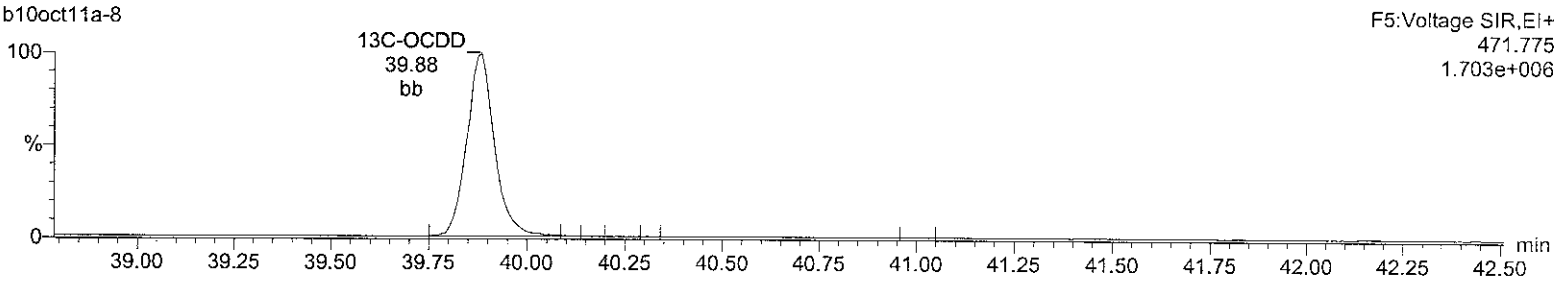
OCDD



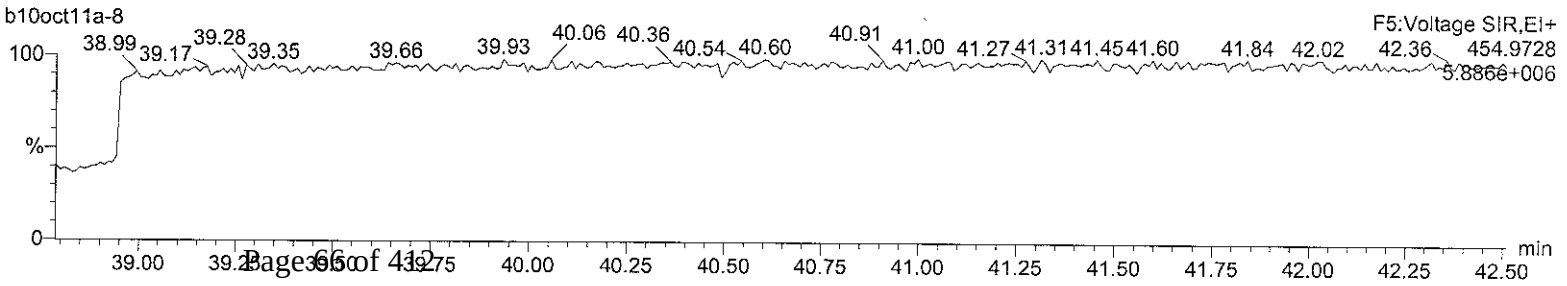
13C-OCDD



13C-OCDD



Lock Mass F5



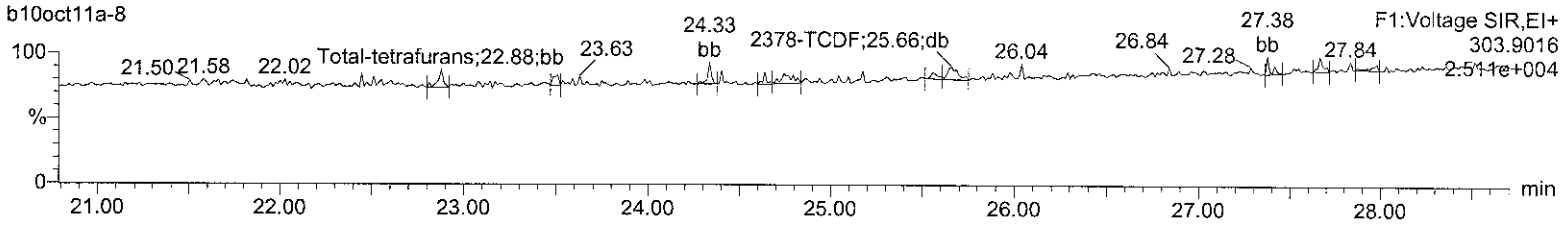
Quantify Sample Report **MassLynx 4.1**
Method 8290 Quantification Report

Dataset: C:\MassLynx\Default.pro\Sample Results\8290-b10oct11a.qld

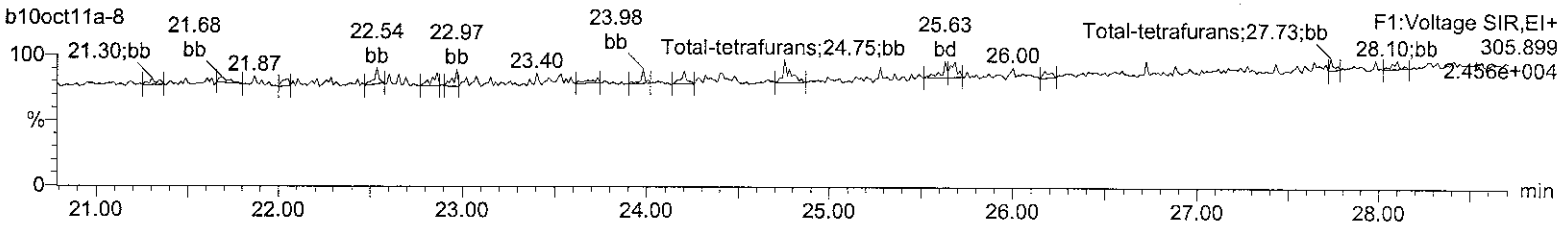
Last Altered: Tuesday, October 11, 2011 08:03:54 Eastern Standard Time
Printed: Tuesday, October 11, 2011 08:04:29 Eastern Standard Time

Name: b10oct11a-8, Date: 10-Oct-2011, Time: 18:32:23, ID: 2818003-1, Description: 19680, Job: HMS8290_1S, Task: HRP763_1, User: MJC

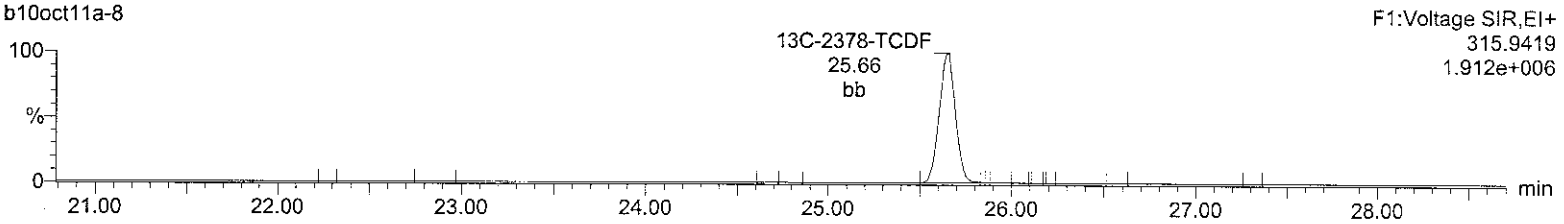
Total-tetrafurans



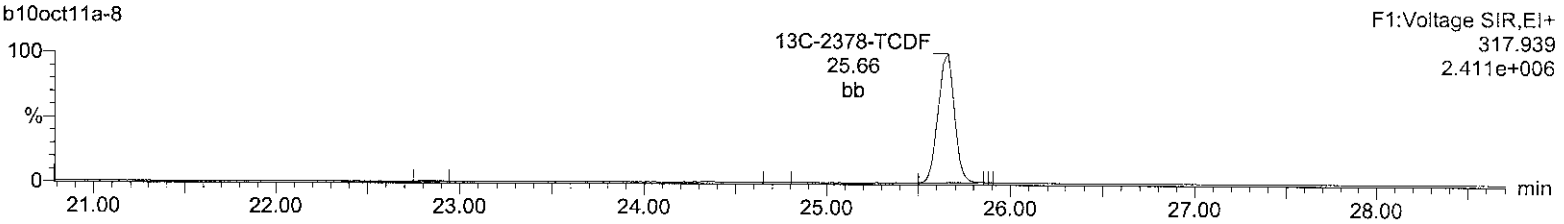
Total-tetrafurans



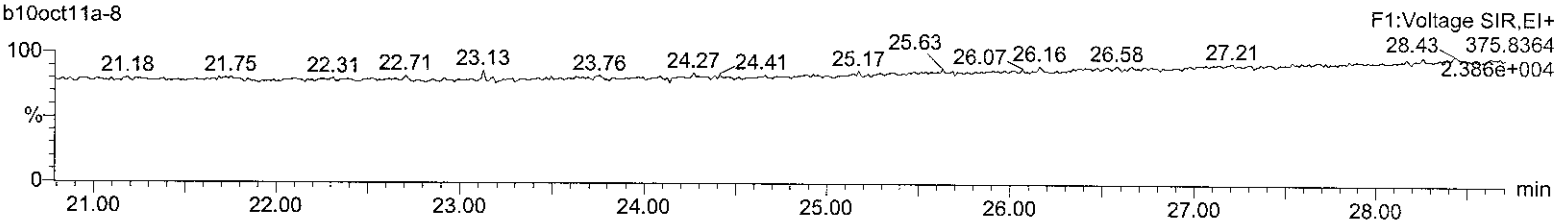
13C-2378-TCDF



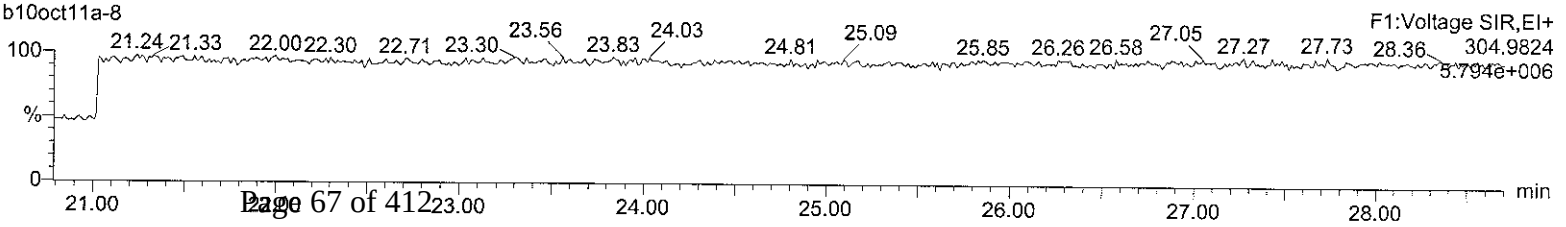
13C-2378-TCDF



HxDPE



Lock Mass F1



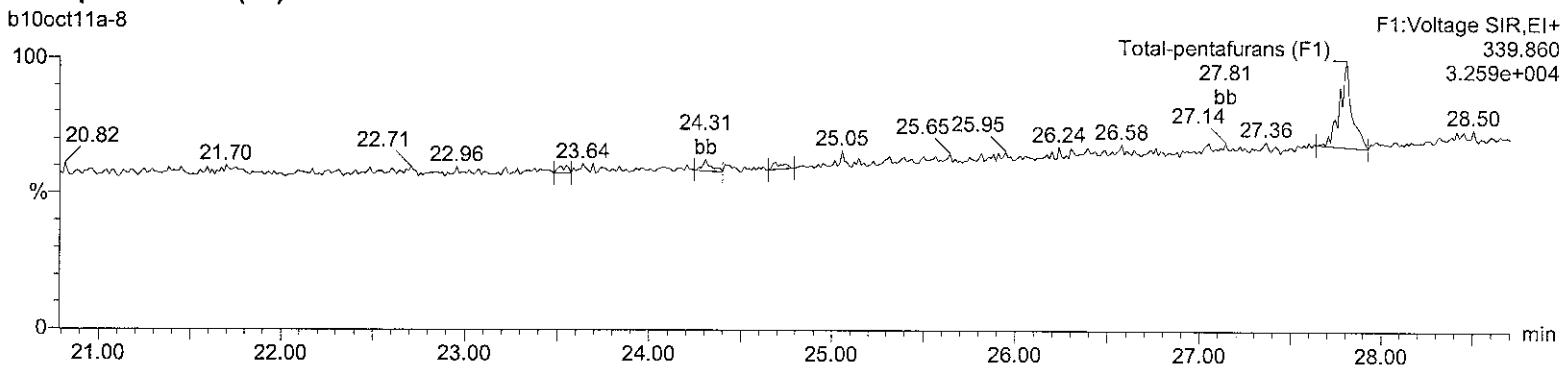
Quantify Sample Report **MassLynx 4.1**
Method 8290 Quantification Report

Dataset: C:\MassLynx\Default.pro\Sample Results\8290-b10oct11a.qld

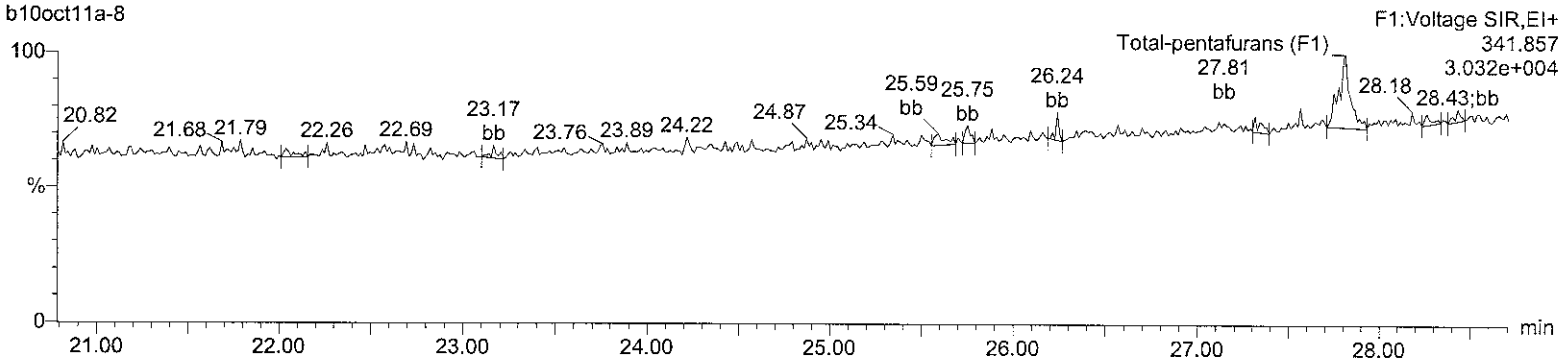
Last Altered: Tuesday, October 11, 2011 08:03:54 Eastern Standard Time
Printed: Tuesday, October 11, 2011 08:04:29 Eastern Standard Time

Name: b10oct11a-8, Date: 10-Oct-2011, Time: 18:32:23, ID: 2818003-1, Description: 19680, Job: HMS8290_1S, Task: HRP763_1, User: MJC

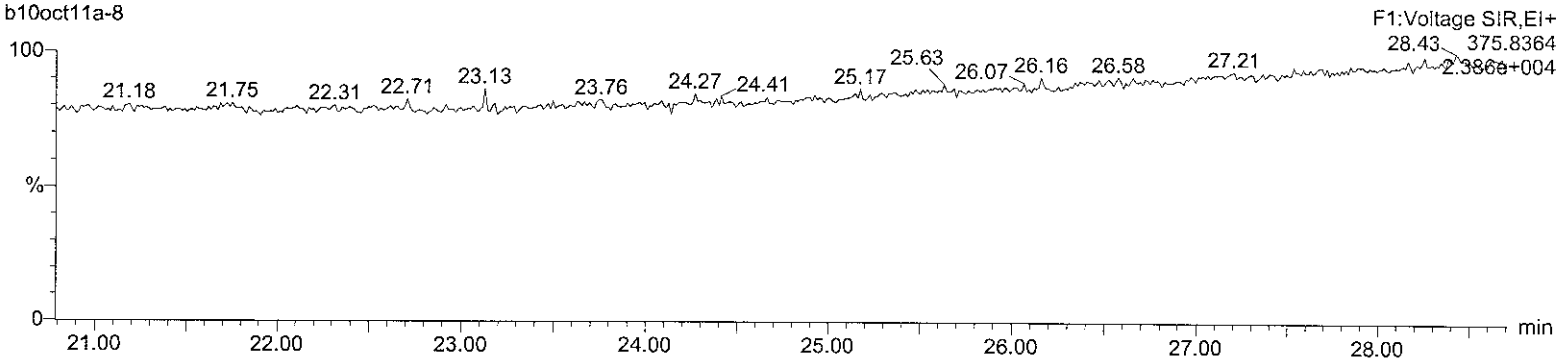
Total-pentafurans (F1)



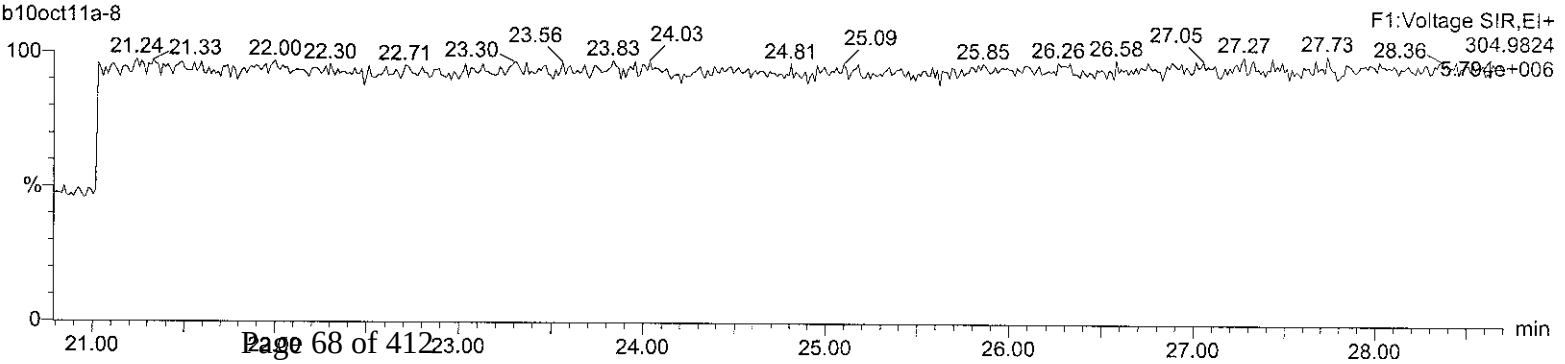
Total-pentafurans (F1)



HxDPE



Lock Mass F1



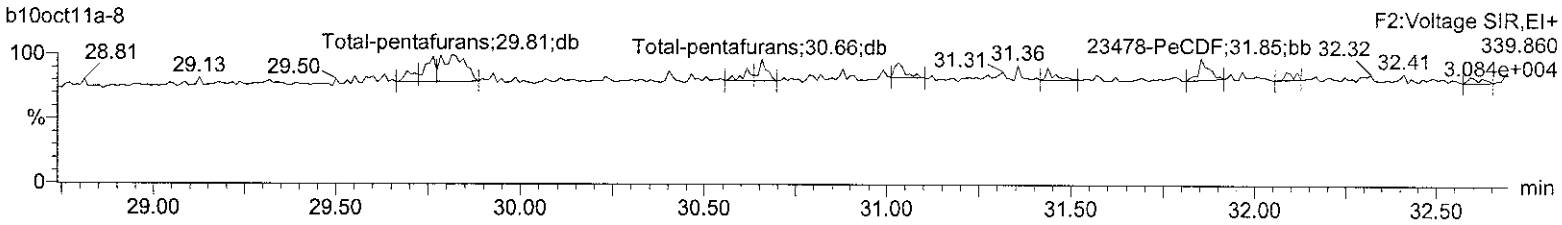
Quantify Sample Report **MassLynx 4.1**
Method 8290 Quantification Report

Dataset: C:\MassLynx\Default.pro\Sample Results\8290-b10oct11a.qld

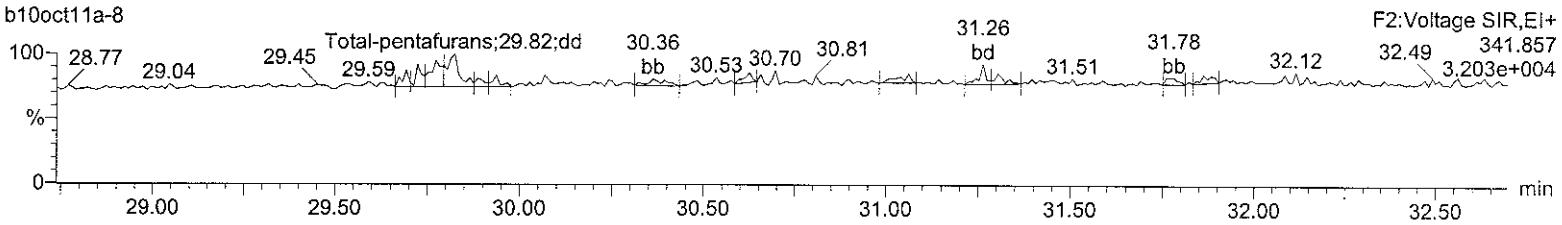
Last Altered: Tuesday, October 11, 2011 08:03:54 Eastern Standard Time
Printed: Tuesday, October 11, 2011 08:04:29 Eastern Standard Time

Name: b10oct11a-8, Date: 10-Oct-2011, Time: 18:32:23, ID: 2818003-1, Description: 19680, Job: HMS8290_1S, Task: HRP763_1, User: MJC

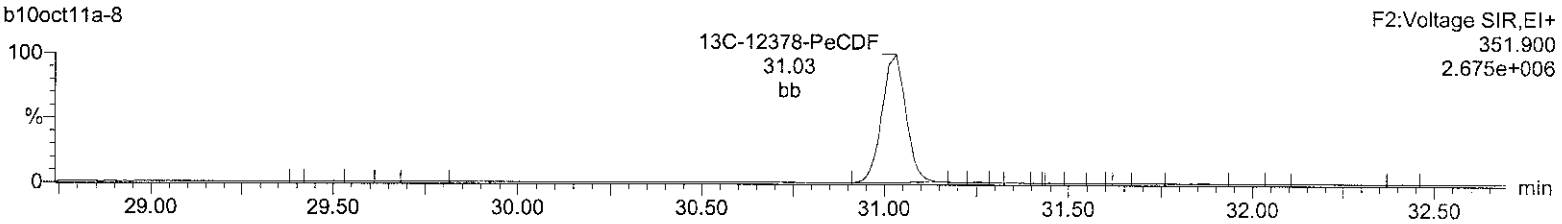
Total-pentafurans



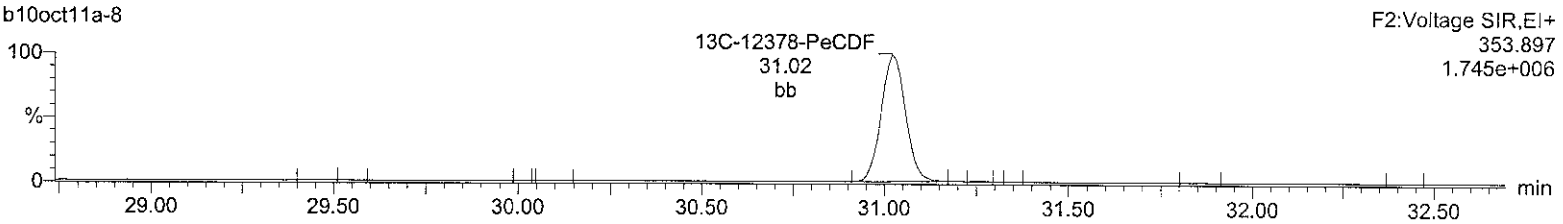
Total-pentafurans



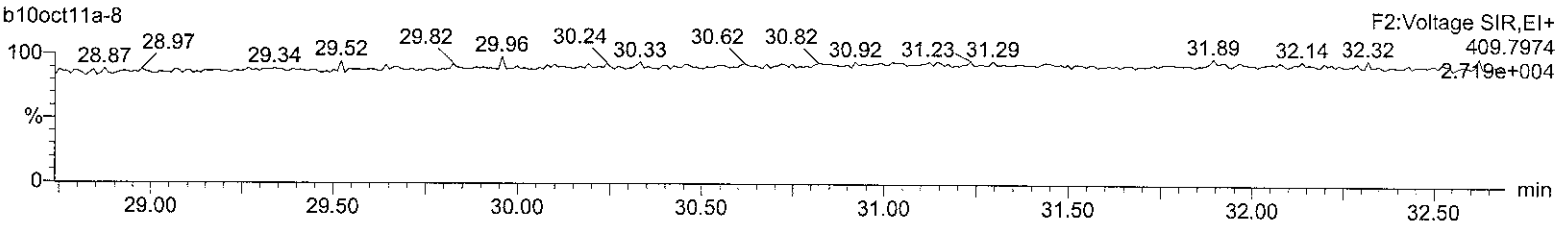
13C-12378-PeCDF



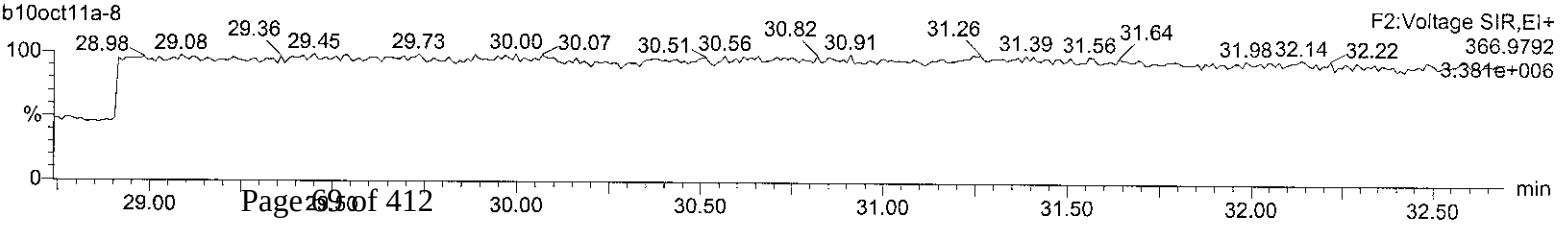
13C-12378-PeCDF



HpDPE



Lock Mass F2



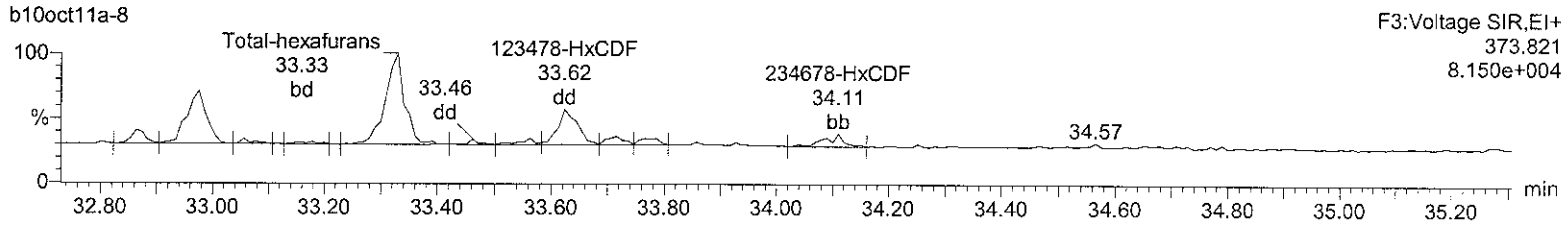
Quantify Sample Report **MassLynx 4.1**
Method 8290 Quantification Report

Dataset: C:\MassLynx\Default.pro\Sample Results\8290-b10oct11a.qld

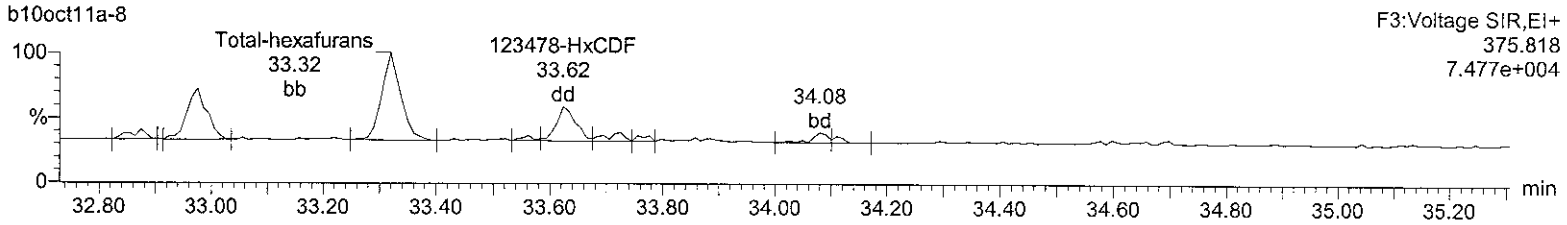
Last Altered: Tuesday, October 11, 2011 08:03:54 Eastern Standard Time
Printed: Tuesday, October 11, 2011 08:04:29 Eastern Standard Time

Name: b10oct11a-8, Date: 10-Oct-2011, Time: 18:32:23, ID: 2818003-1, Description: 19680, Job: HMS8290_1S, Task: HRP763_1, User: MJC

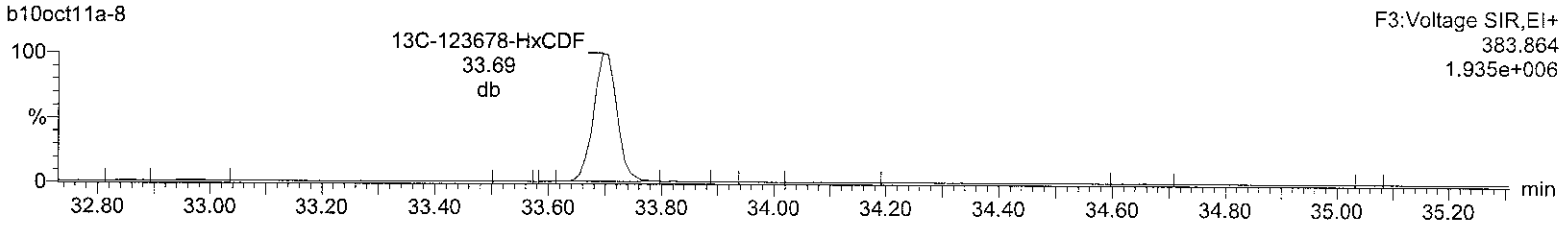
Total-hexafurans



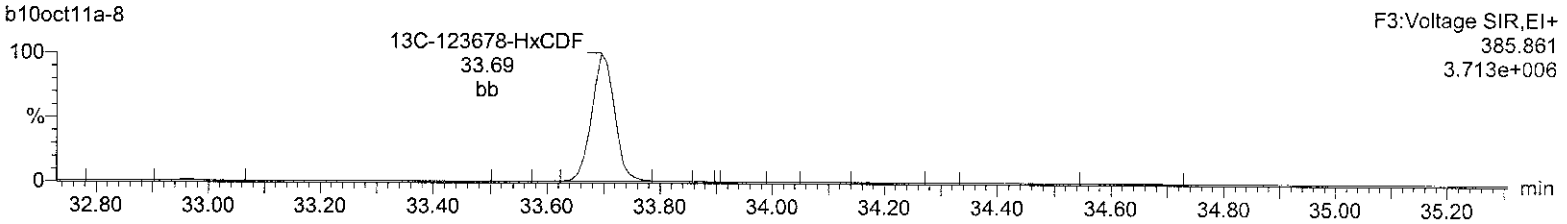
Total-hexafurans



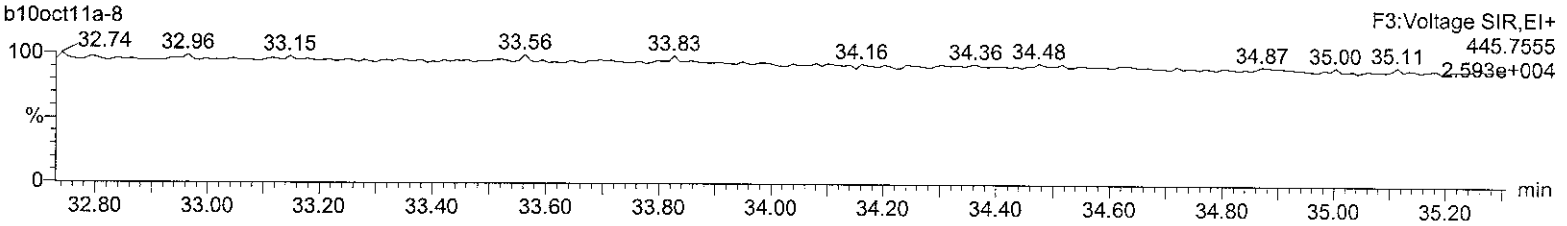
13C-123678-HxCDF



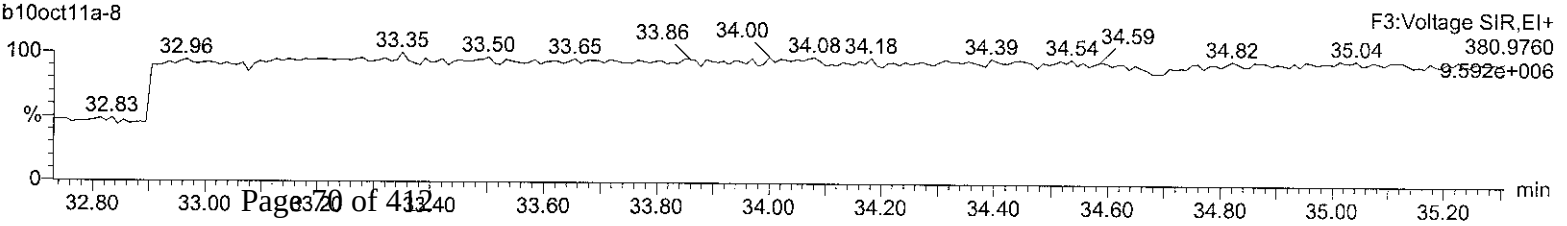
13C-123678-HxCDF



OcDPE



Lock Mass F3



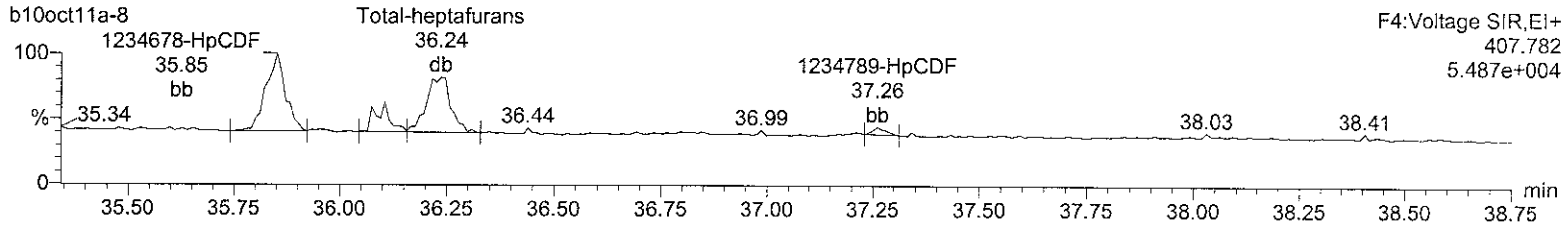
Quantify Sample Report **MassLynx 4.1**
Method 8290 Quantification Report

Dataset: C:\MassLynx\Default.pro\Sample Results\8290-b10oct11a.qld

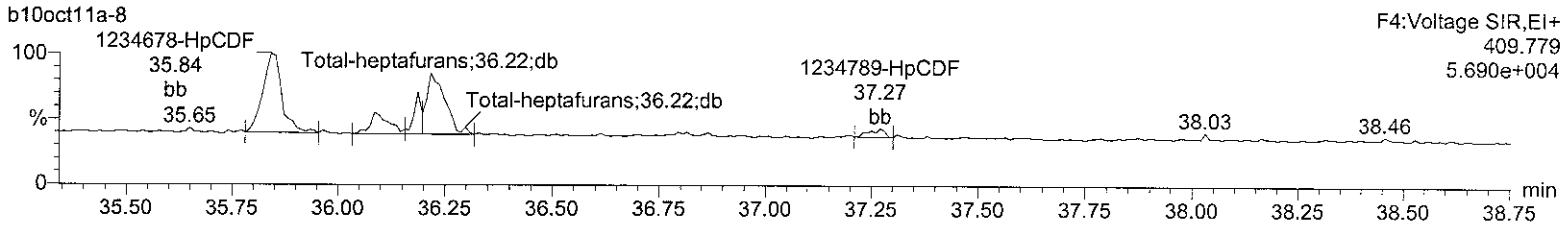
Last Altered: Tuesday, October 11, 2011 08:03:54 Eastern Standard Time
Printed: Tuesday, October 11, 2011 08:04:29 Eastern Standard Time

Name: b10oct11a-8, Date: 10-Oct-2011, Time: 18:32:23, ID: 2818003-1, Description: 19680, Job: HMS8290_1S, Task: HRP763_1, User: MJC

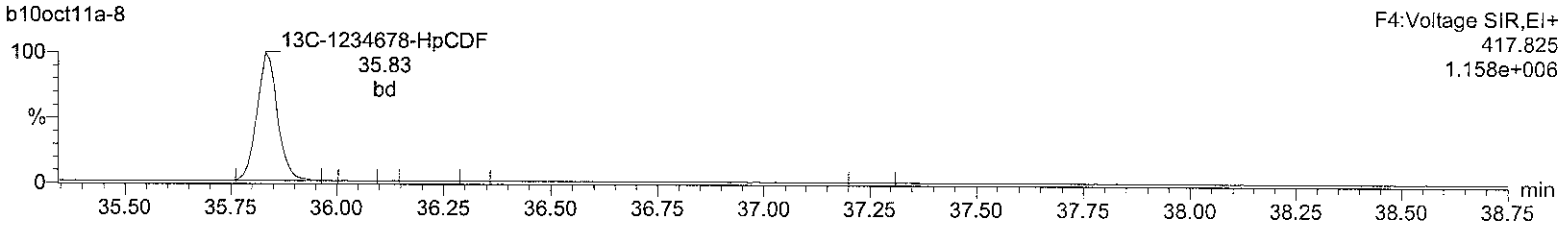
Total-heptafurans



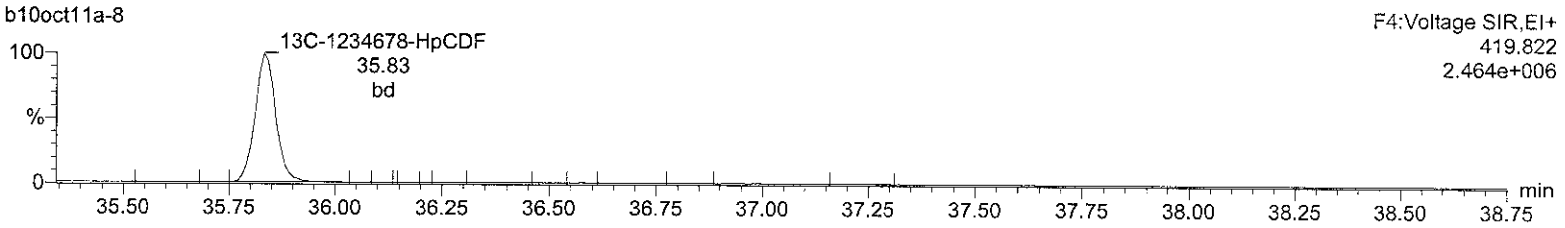
Total-heptafurans



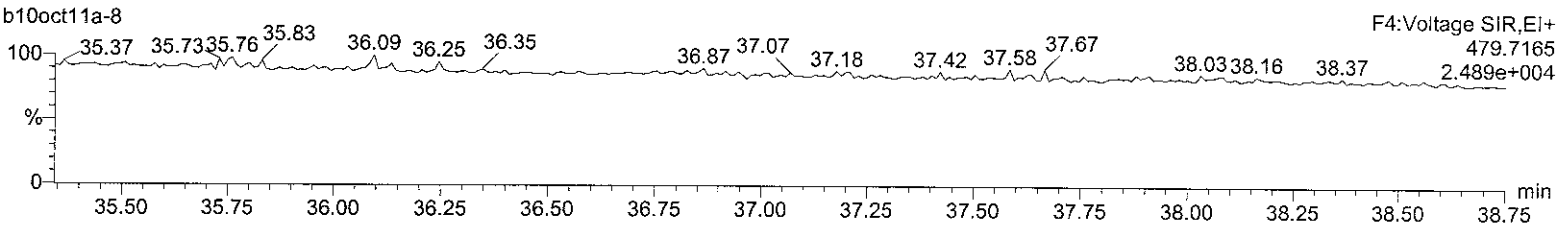
13C-1234678-HpCDF



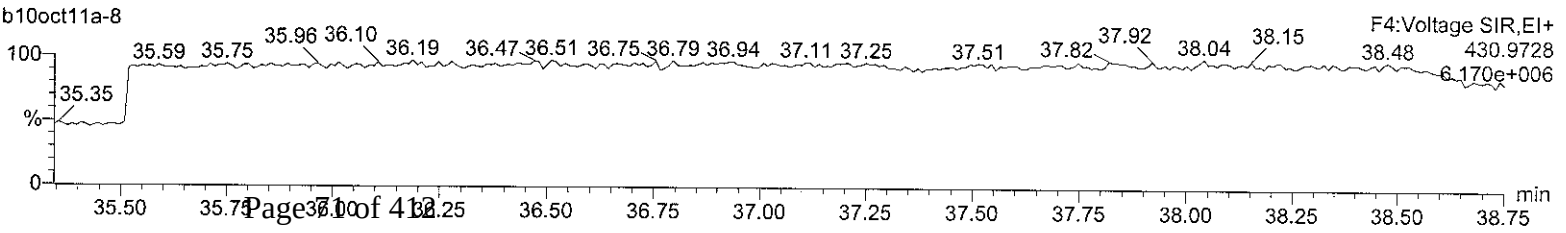
13C-1234678-HpCDF



NoDPE



Lock Mass F4



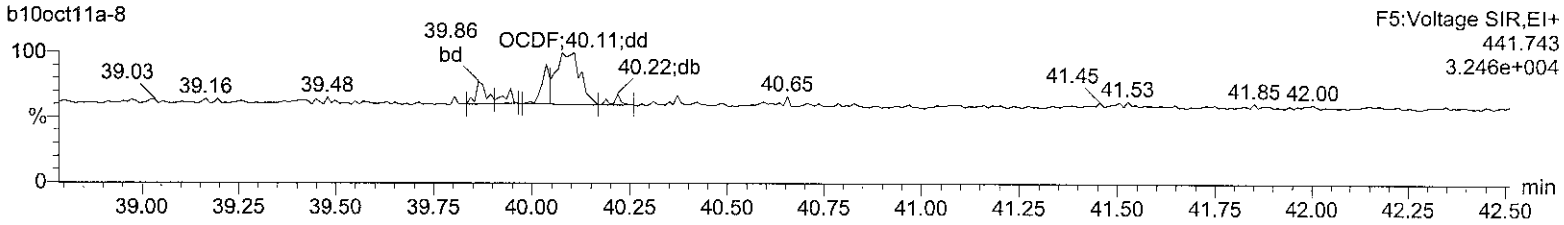
Quantify Sample Report **MassLynx 4.1**
Method 8290 Quantification Report

Dataset: C:\MassLynx\Default.pro\Sample Results\8290-b10oct11a.qld

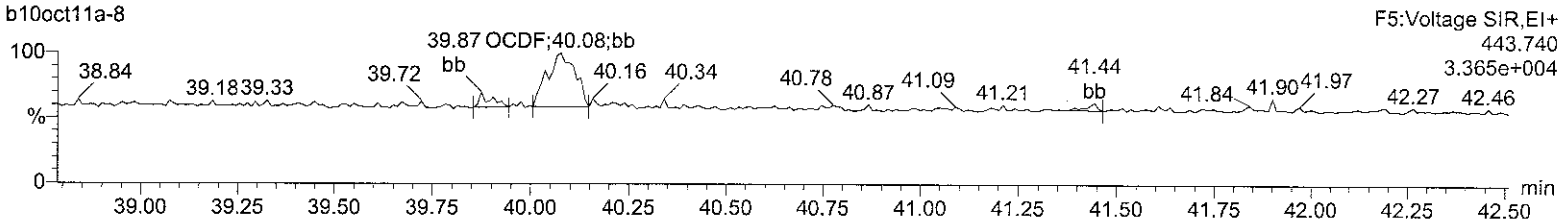
Last Altered: Tuesday, October 11, 2011 08:03:54 Eastern Standard Time
Printed: Tuesday, October 11, 2011 08:04:29 Eastern Standard Time

Name: b10oct11a-8, Date: 10-Oct-2011, Time: 18:32:23, ID: 2818003-1, Description: 19680, Job: HMS8290_1S, Task: HRP763_1, User: MJC

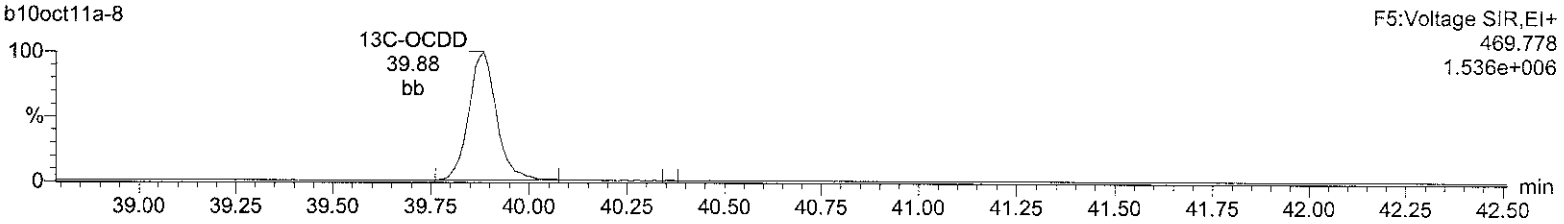
OCDF



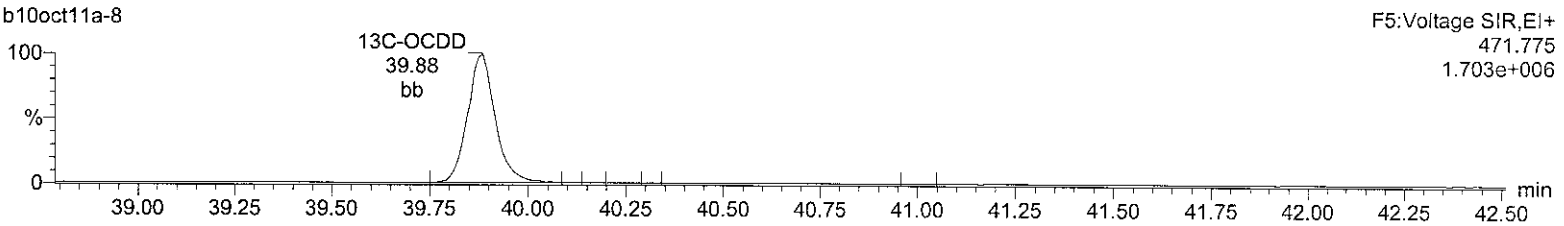
OCDF



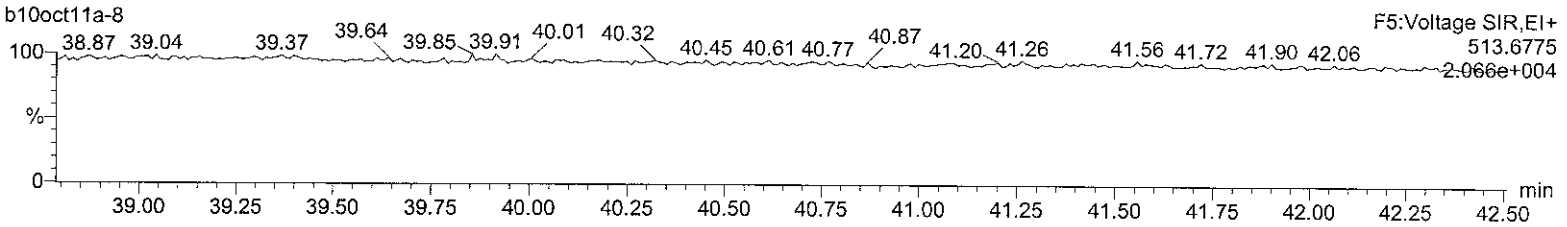
13C-OCDD



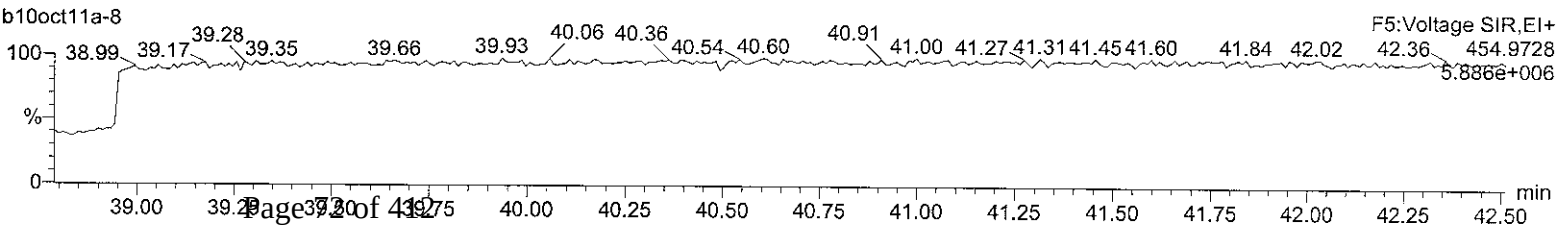
13C-OCDD



DeDPE



Lock Mass F5



Hi-Res Dioxins/Furans
Certificate of Analysis
Sample Summary

SDG Number:	**1109191**	**Client:**	**EMPI001**	**Project:**	**EMPI00311**
Lab Sample ID:	**2818002**	**Date Collected:**	**09/22/2011 10:50**	**Matrix:**	**SOLID**
Client Sample:	**8290 Soil**	**Date Received:**	**09/27/2011 11:45**	**%Moisture:**	**11.5**
Client ID:	**FLC-4-SSC-0624-092211**			**Prep Basis:**	**Dry Weight**
Batch ID:	**19680**	**Method:**	**SW846 8290A**		
Run Date:	**10/10/2011 22:15**	**Analyst:**	**MJC**	**Instrument:**	**HRP763**
Data File:	**b10oct11a-13**			**Dilution:**	**20**
Prep Batch:	**19663**	**Prep Method:**	**SW846 3540C**		
Prep Date:	**04-OCT-11**	**Aliquot:**	**11.37 g**		

CAS No.	Parmname	Qual	Result	EMPC	Units	EDL	PQL
1746-01-6	2,3,7,8-TCDD	U	5.92		pg/g	5.92	19.9
40321-76-4	1,2,3,7,8-PeCDD	JK		4.46	pg/g	4.33	99.4
39227-28-6	1,2,3,4,7,8-HxCDD	JK		11.2	pg/g	4.51	99.4
57653-85-7	1,2,3,6,7,8-HxCDD	J	28.5		pg/g	4.18	99.4
19408-74-3	1,2,3,7,8,9-HxCDD	JQ	18.0		pg/g	4.67	99.4
35822-46-9	1,2,3,4,6,7,8-HpCDD		1630		pg/g	7.81	99.4
3268-87-9	1,2,3,4,6,7,8,9-OCDD		11900		pg/g	9.64	199
51207-31-9	2,3,7,8-TCDF	U	3.26		pg/g	3.26	19.9
57117-41-6	1,2,3,7,8-PeCDF	U	5.57		pg/g	5.57	99.4
57117-31-4	2,3,4,7,8-PeCDF	U	5.69		pg/g	5.69	99.4
70648-26-9	1,2,3,4,7,8-HxCDF	J	10.4		pg/g	4.93	99.4
57117-44-9	1,2,3,6,7,8-HxCDF	U	4.23		pg/g	4.23	99.4
60851-34-5	2,3,4,6,7,8-HxCDF	U	4.69		pg/g	4.69	99.4
72918-21-9	1,2,3,7,8,9-HxCDF	U	5.67		pg/g	5.67	99.4
67562-39-4	1,2,3,4,6,7,8-HpCDF	J	19.6		pg/g	3.12	99.4
55673-89-7	1,2,3,4,7,8,9-HpCDF	U	4.27		pg/g	4.27	99.4
39001-02-0	1,2,3,4,6,7,8,9-OCDF	J	22.8		pg/g	7.67	199
41903-57-5	Total Tetrachlorodibenzo-p-dioxin	U	5.92		pg/g	5.92	19.9
36088-22-9	Total Pentachlorodibenzo-p-dioxin	U	4.33	4.46	pg/g	4.33	99.4
34465-46-8	Total Hexachlorodibenzo-p-dioxin		348	359	pg/g	4.18	99.4
37871-00-4	Total Heptachlorodibenzo-p-dioxin		3220		pg/g	7.81	99.4
30402-14-3	Total Tetrachlorodibenzofuran	U	3.26		pg/g	3.26	19.9
30402-15-4	Total Pentachlorodibenzofuran	J	5.07		pg/g	2.80	99.4
55684-94-1	Total Hexachlorodibenzofuran	J	35.9	48.7	pg/g	4.23	99.4
38998-75-3	Total Heptachlorodibenzofuran	J	38.4		pg/g	3.12	99.4
3333-30-0	TEQ WHO2005 ND=0		25.8	31.4	pg/g		
3333-30-1	TEQ WHO2005 ND=0.5		33.0	36.2	pg/g		

Surrogate/Tracer recovery	Qual	Result	Nominal	Units	Recovery%	Acceptable Limits
13C-2,3,7,8-TCDD		147	199	pg/g	73.8	(40%-135%)
13C-1,2,3,7,8-PeCDD		105	199	pg/g	52.9	(40%-135%)
13C-1,2,3,6,7,8-HxCDD		218	199	pg/g	109	(40%-135%)
13C-1,2,3,4,6,7,8-HpCDD		247	199	pg/g	124	(40%-135%)
13C-OCDD		430	398	pg/g	108	(40%-135%)
13C-2,3,7,8-TCDF		154	199	pg/g	77.5	(40%-135%)
13C-1,2,3,7,8-PeCDF		110	199	pg/g	55.3	(40%-135%)
13C-1,2,3,6,7,8-HxCDF		180	199	pg/g	90.4	(40%-135%)
13C-1,2,3,4,6,7,8-HpCDF		235	199	pg/g	118	(40%-135%)

Comments:

J Value is estimated
K Estimated Maximum Possible Concentration
Q Quantitative Interference
U Analyte was analyzed for , but not detected above the specified detection limit.

Quantify Sample Summary Report **MassLynx 4.1**
Method 8290 Quantification Report

Dataset: C:\MassLynx\Default.pro\Sample Results\8290-b10oct11a-13.qld

Last Altered: Tuesday, October 11, 2011 13:22:21 Eastern Standard Time
Printed: Tuesday, October 11, 2011 13:22:35 Eastern Standard Time

HMP
11Oct11

Method: Untitled 10 Oct 2011 14:05:54
Calibration: C:\MassLynx\DEFAULT.PRO\CurveDB\8290-b01nov10b.cdb 02 Nov 2010 08:19:01
Name: b10oct11a-13, Date: 10-Oct-2011, Time: 22:15:37, ID: 2818002-1 x20, Description: 19680, Job: HMS8290_1S, Task: HRP763_1, User: MJC

	Name	Ion1Area	Ion2Area	Response	RT	RRT	RA	Fail?	pg/uL	EDL	Height1	Noise1	S/N1	Height2	Noise2	S/N2	M
1	2378-TCDD							NO		2.98		2156			1528		
2	12378-PeCDD	2.11e2	2.33e2	4.44e2	32.18	1.000	0.91	YES	2.245	2.18	4.71e3	1770	2.7	5.28e3	1800	2.9	bb
3	123478-HxCDD	6.15e2	3.85e2	1.00e3	34.53	0.999	1.60	YES	5.632	2.27	1.28e4	1953	6.5	1.05e4	1980	5.3	MM
4	123678-HxCDD	1.47e3	1.27e3	2.75e3	34.58	1.000	1.15	NO	14.318	2.10	3.83e4	1953	19.6	4.43e4	1980	22.4	dd
5	123789-HxCDD	8.20e2	7.33e2	1.55e3	34.72	1.004	1.12	NO	9.064	2.35	2.36e4	1953	12.1	2.31e4	1980	11.6	db
6	1234678-HpCDD	6.80e4	6.55e4	1.33e5	36.93	1.001	1.04	NO	820.480	3.93	1.29e6	2235	578.2	1.23e6	2306	535.0	bb
7	OCDD	3.32e5	3.67e5	6.99e5	40.08	1.000	0.91	NO	5973.135	4.85	4.35e6	1537	2829.2	4.84e6	1374	3523.6	bd
8	2378-TCDF							NO		1.64		1563			1400		
9	12378-PeCDF							NO		2.80		2546			2311		
10	23478-PeCDF	1.50e2	1.97e2	3.47e2	31.96	1.026	0.76	YES	1.064	2.86	4.25e3	2546	1.7	4.67e3	2311	2.0	dd
11	123478-HxCDF	6.38e2	5.05e2	1.14e3	33.84	0.997	1.26	NO	5.243	2.48	1.19e4	2466	4.8	1.14e4	2235	5.1	db
12	123678-HxCDF							NO		2.13		2466			2235		
13	234678-HxCDF							NO		2.36		2466			2235		
14	123789-HxCDF							NO		2.85		2466			2235		
15	1234678-HpCDF	1.37e3	1.25e3	2.62e3	35.99	1.000	1.09	NO	9.856	1.57	2.32e4	1710	13.6	2.56e4	1672	15.3	bd
16	1234789-HpCDF							NO		2.15		1710			1672		
17	OCDF	7.65e2	8.97e2	1.66e3	40.25	1.005	0.85	NO	11.480	3.86	1.34e4	1468	9.2	1.46e4	1403	10.4	MM
18	13C-2378-TCDD	1.40e4	1.75e4	3.15e4	26.67	1.027	0.80	NO	73.791	2.38	1.35e5	2440	55.5	1.65e5	1313	126.0	bb
19	13C-12378-PeCDD	1.17e4	7.43e3	1.92e4	32.17	1.239	1.58	NO	52.910	1.95	2.43e5	1272	191.2	1.71e5	1344	127.1	db
20	13C-123678-HxCDD	1.08e4	9.04e3	1.98e4	34.57	0.996	1.19	NO	109.482	1.61	2.63e5	1710	153.8	2.26e5	1921	117.8	bb
21	13C-1234678-HpCDD	8.42e3	7.76e3	1.62e4	36.91	1.063	1.09	NO	124.223	1.84	1.50e5	1386	108.0	1.50e5	1613	92.7	bb
22	13C-OCDD	1.11e4	1.25e4	2.35e4	40.07	1.154	0.89	NO	216.107	1.49	1.42e5	1107	128.1	1.62e5	913	177.6	bb
23	13C-2378-TCDF	2.38e4	3.00e4	5.38e4	25.75	0.992	0.80	NO	77.516	2.34	2.03e5	2423	83.8	2.58e5	3579	72.1	bb
24	13C-12378-PeCDF	2.23e4	1.34e4	3.57e4	31.15	1.200	1.67	NO	55.302	1.45	2.90e5	1609	180.3	1.59e5	1863	85.2	MM
25	13C-123678-HxCDF	8.06e3	1.59e4	2.40e4	33.93	0.978	0.51	NO	90.405	1.16	1.75e5	2026	86.4	3.43e5	1806	190.1	bb
26	13C-1234678-HpCDF	6.68e3	1.41e4	2.08e4	35.99	1.037	0.47	NO	118.249	1.30	1.36e5	1302	104.3	2.52e5	1558	161.6	bb
27	13C-1234-TCDD	1.73e4	2.08e4	3.81e4	25.96	0.000	0.83	NO	100.000	2.66	1.60e5	2440	65.5	1.99e5	1313	152.0	bb
28	13C-123789-HxCDD	9.05e3	7.23e3	1.63e4	34.71	0.000	1.25	NO	100.000	1.79	2.82e5	1710	165.0	2.29e5	1921	119.1	bb
29	37Cl-2378-TCDD (SS)	6.01e1		6.01e1	26.58	0.997			0.181	1.03	1.60e3	1320	1.2				bb
30	13C-23478-PeCDF (SS)							NO		2.00		1609			1863		

Quantify Totals Report MassLynx 4.1
Method 8290 Quantification Report

Dataset: C:\MassLynx\Default.pro\Sample Results\8290-b10oct11a-13.qld

Last Altered: Tuesday, October 11, 2011 13:22:21 Eastern Standard Time
Printed: Tuesday, October 11, 2011 13:22:35 Eastern Standard Time

Method: Untitled 10 Oct 2011 14:05:54
Calibration: C:\MassLynx\DEFAULT.PRO\CurveDB\8290-b01nov10b.cdb 02 Nov 2010 08:19:01

Name: b10oct11a-13, Date: 10-Oct-2011, Time: 22:15:37, ID: 2818002-1 x20, Description: 19680, Job: HMS8290_1S, Task: HRP763_1, User: MJC

TD

	Name	Ion1Area	Ion2Area	Response	RT	RA	Fail?	pg/uL	EDL	Height1	Noise1	S/N1	Height2	Noise2	S/N2	M
1	Total-tetradioxins	7.80e1	8.54e1	1.63e2	22.04	0.91	YES	0.512	2.98	1.82e3	2156	0.8	2.25e3	1528	1.5	bb
2	Total-tetradioxins	7.92e1	8.08e1	1.60e2	24.29	0.98	YES	0.501	2.98	3.14e3	2156	1.5	2.10e3	1528	1.4	bb
3	Total-tetradioxins	6.42e1	6.28e1	1.27e2	25.11	1.02	YES	0.398	2.98	2.20e3	2156	1.0	1.13e3	1528	0.7	bb
4	Total-tetradioxins	1.38e2	1.50e2	2.89e2	27.14	0.92	YES	0.905	2.98	5.30e3	2156	2.5	2.67e3	1528	1.7	db
5	Total-tetradioxins	1.76e2	7.88e1	2.55e2	28.06	2.24	YES	0.800	2.98	3.78e3	2156	1.8	2.53e3	1528	1.7	bb

PD

	Name	Ion1Area	Ion2Area	Response	RT	RA	Fail?	pg/uL	EDL	Height1	Noise1	S/N1	Height2	Noise2	S/N2	M
1	Total-pentadioxins	1.02e2	1.35e2	2.37e2	30.15	0.75	YES	1.196	2.18	3.53e3	1770	2.0	2.98e3	1800	1.7	db
2	Total-pentadioxins	6.83e1	1.35e2	2.04e2	31.27	0.50	YES	1.029	2.18	2.69e3	1770	1.5	2.54e3	1800	1.4	db
3	Total-pentadioxins	3.76e2	7.96e1	4.56e2	31.44	4.72	YES	2.304	2.18	6.99e3	1770	3.9	2.85e3	1800	1.6	bb
4	Total-pentadioxins	2.64e2	1.07e2	3.70e2	31.64	2.48	YES	1.873	2.18	5.43e3	1770	3.1	6.16e3	1800	3.4	bb
5	12378-PeCDD	2.11e2	2.33e2	4.44e2	32.18	0.91	YES	2.245	2.18	4.71e3	1770	2.7	5.28e3	1800	2.9	bb
6	Total-pentadioxins	1.26e2	1.07e2	2.33e2	32.38	1.18	YES	1.179	2.18	4.11e3	1770	2.3	5.05e3	1800	2.8	bb

HD

	Name	Ion1Area	Ion2Area	Response	RT	RA	Fail?	pg/uL	EDL	Height1	Noise1	S/N1	Height2	Noise2	S/N2	M
1	Total-hexadioxins	4.95e2	4.30e2	9.24e2	33.30	1.15	NO	5.128	2.23	1.27e4	1953	6.5	7.52e3	1980	3.8	bd
2	Total-hexadioxins	4.45e3	3.51e3	7.96e3	33.43	1.27	NO	44.161	2.23	8.47e4	1953	43.4	6.16e4	1980	31.1	db
3	Total-hexadioxins	6.76e1	1.39e2	2.07e2	33.63	0.49	YES	1.147	2.23	2.88e3	1953	1.5	3.31e3	1980	1.7	bb
4	Total-hexadioxins	1.61e3	1.39e3	2.99e3	33.83	1.16	NO	16.597	2.23	2.66e4	1953	13.6	2.29e4	1980	11.6	bd
5	Total-hexadioxins	7.87e3	6.57e3	1.44e4	34.01	1.20	NO	80.106	2.23	1.43e5	1953	73.4	1.14e5	1980	57.6	db
6	Total-hexadioxins	5.01e1	1.33e2	1.83e2	34.39	0.38	YES	1.017	2.23	2.78e3	1953	1.4	2.98e3	1980	1.5	bb
7	123478-HxCDD	6.15e2	3.85e2	1.00e3	34.53	1.60	YES	5.632	2.27	1.28e4	1953	6.5	1.05e4	1980	5.3	MM
8	123678-HxCDD	1.47e3	1.27e3	2.75e3	34.58	1.15	NO	14.318	2.10	3.83e4	1953	19.6	4.43e4	1980	22.4	dd
9	Total-hexadioxins	5.42e2	4.34e2	9.76e2	34.67	1.25	NO	5.417	2.23	2.37e4	1953	12.1	1.87e4	1980	9.5	dd
10	123789-HxCDD	8.20e2	7.33e2	1.55e3	34.72	1.12	NO	9.064	2.35	2.36e4	1953	12.1	2.31e4	1980	11.6	db

Quantify Totals Report MassLynx 4.1
Method 8290 Quantification Report

Dataset: C:\MassLynx\Default.pro\Sample Results\8290-b10oct11a-13.qld

Last Altered: Tuesday, October 11, 2011 13:22:21 Eastern Standard Time
Printed: Tuesday, October 11, 2011 13:22:35 Eastern Standard Time

Name: b10oct11a-13, Date: 10-Oct-2011, Time: 22:15:37, ID: 2818002-1 x20, Description: 19680, Job: HMS8290_1S, Task: HRP763_1, User: MJC

HPD

	Name	Ion1Area	Ion2Area	Response	RT	RA	Fail?	pg/uL	EDL	Height1	Noise1	S/N1	Height2	Noise2	S/N2	M
1	Total-heptadioxins	6.56e4	6.41e4	1.30e5	36.25	1.02	NO	797.477	3.93	1.22e6	2235	547.0	1.19e6	2306	516.2	bb
2	1234678-HpCDD	6.80e4	6.55e4	1.33e5	36.93	1.04	NO	820.480	3.93	1.29e6	2235	578.2	1.23e6	2306	535.0	bb

TF

	Name	Ion1Area	Ion2Area	Response	RT	RA	Fail?	pg/uL	EDL	Height1	Noise1	S/N1	Height2	Noise2	S/N2	M
1	Total-tetrafurans	5.44e1	6.66e1	1.21e2	23.23	0.82	NO	0.229	1.64	2.59e3	1563	1.7	2.73e3	1400	1.9	bb
2	Total-tetrafurans	6.12e1	5.36e1	1.15e2	25.54	1.14	YES	0.217	1.64	1.74e3	1563	1.1	1.59e3	1400	1.1	bb
3	Total-tetrafurans	1.40e2	6.10e1	2.01e2	27.82	2.30	YES	0.381	1.64	2.12e3	1563	1.4	1.60e3	1400	1.1	bb

PF1

	Name	Ion1Area	Ion2Area	Response	RT	RA	Fail?	pg/uL	EDL	Height1	Noise1	S/N1	Height2	Noise2	S/N2	M
1	Total-pentafurans (F1)	5.06e2	3.36e2	8.41e2	27.95	1.51	NO	2.550	1.41	5.56e3	1191	4.7	3.83e3	1234	3.1	bb

PF

	Name	Ion1Area	Ion2Area	Response	RT	RA	Fail?	pg/uL	EDL	Height1	Noise1	S/N1	Height2	Noise2	S/N2	M
1	Total-pentafurans	7.21e1	7.20e1	1.44e2	29.37	1.00	YES	0.437	2.83	2.04e3	2546	0.8	4.41e3	2311	1.9	bd
2	Total-pentafurans	3.46e2	2.37e2	5.84e2	30.05	1.46	NO	1.769	2.83	5.14e3	2546	2.0	6.42e3	2311	2.8	bd
3	Total-pentafurans	1.81e2	1.47e2	3.28e2	30.09	1.23	YES	0.995	2.83	4.35e3	2546	1.7	6.56e3	2311	2.8	db
4	Total-pentafurans	5.43e1	1.00e2	1.54e2	31.73	0.54	YES	0.468	2.83	2.52e3	2546	1.0	5.92e3	2311	2.6	bb
5	Total-pentafurans	1.30e2	1.29e2	2.59e2	31.83	1.00	YES	0.786	2.83	3.41e3	2546	1.3	4.26e3	2311	1.8	bd
6	Total-pentafurans	1.20e2	5.23e1	1.73e2	31.89	2.30	YES	0.523	2.83	4.14e3	2546	1.6	2.30e3	2311	1.0	dd
7	23478-PeCDF	1.50e2	1.97e2	3.47e2	31.96	0.76	YES	1.064	2.86	4.25e3	2546	1.7	4.67e3	2311	2.0	dd
8	Total-pentafurans	6.21e1	9.03e1	1.52e2	32.09	0.69	YES	0.462	2.83	3.09e3	2546	1.2	4.13e3	2311	1.8	bd
9	Total-pentafurans	1.22e2	1.05e2	2.27e2	32.37	1.17	YES	0.687	2.83	5.30e3	2546	2.1	6.17e3	2311	2.7	db
10	Total-pentafurans	6.36e1	6.44e1	1.28e2	32.53	0.99	YES	0.388	2.83	4.30e3	2546	1.7	5.19e3	2311	2.2	bb

Quantify Totals Report MassLynx 4.1
Method 8290 Quantification Report

Dataset: C:\MassLynx\Default.pro\Sample Results\8290-b10oct11a-13.qld

Last Altered: Tuesday, October 11, 2011 13:22:21 Eastern Standard Time
Printed: Tuesday, October 11, 2011 13:22:35 Eastern Standard Time

Name: b10oct11a-13, Date: 10-Oct-2011, Time: 22:15:37, ID: 2818002-1 x20, Description: 19680, Job: HMS8290_1S, Task: HRP763_1, User: MJC

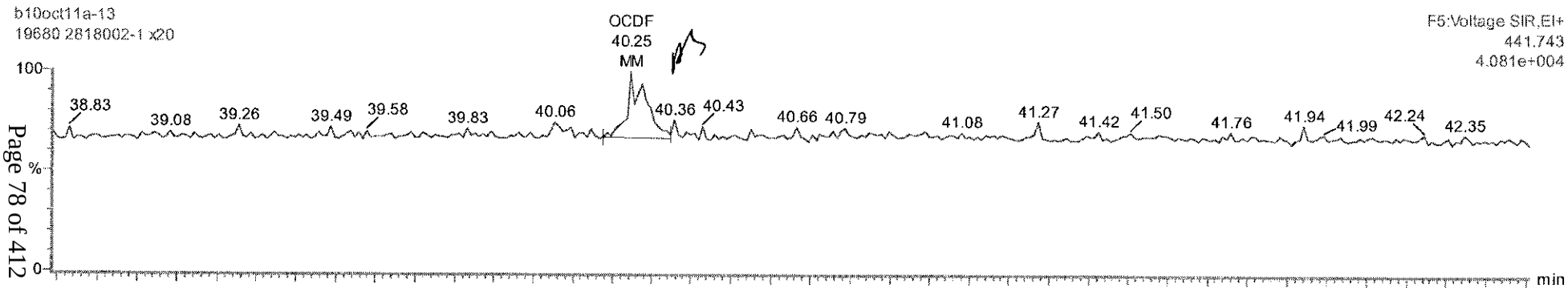
HF

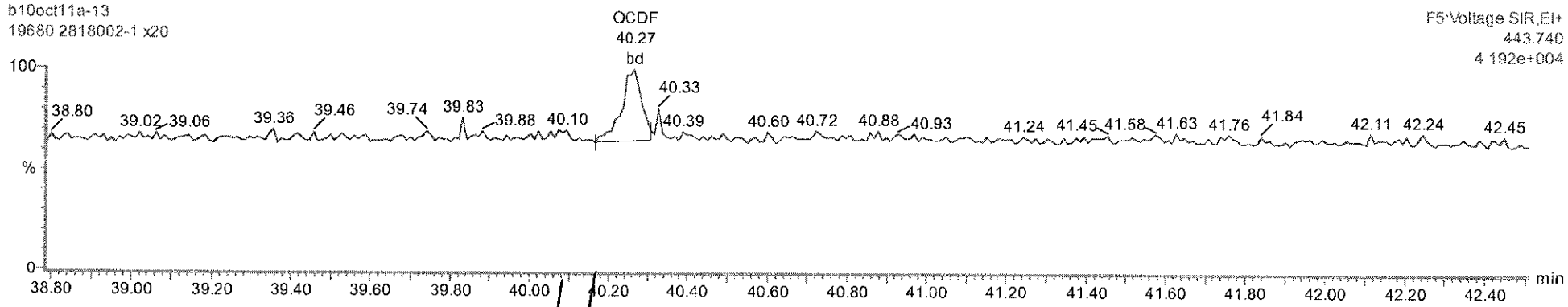
	Name	Ion1Area	Ion2Area	Response	RT	RA	Fail?	pg/uL	EDL	Height1	Noise1	S/N1	Height2	Noise2	S/N2	M
1	Total-hexafurans	9.35e2	4.92e2	1.43e3	33.13	1.90	YES	6.405	2.43	1.63e4	2466	6.6	1.05e4	2235	4.7	bb
2	Total-hexafurans	2.12e2	2.68e2	4.80e2	33.36	0.79	YES	2.155	2.43	7.45e3	2466	3.0	7.37e3	2235	3.3	bd
3	Total-hexafurans	1.50e3	1.36e3	2.86e3	33.49	1.11	NO	12.831	2.43	2.72e4	2466	11.0	2.24e4	2235	10.0	db
4	Total-hexafurans	1.74e2	1.91e2	3.65e2	33.77	0.91	YES	1.638	2.43	5.58e3	2466	2.3	7.43e3	2235	3.3	bd
5	123478-HxCDF	6.38e2	5.05e2	1.14e3	33.84	1.26	NO	5.243	2.48	1.19e4	2466	4.8	1.14e4	2235	5.1	db

HPF

	Name	Ion1Area	Ion2Area	Response	RT	RA	Fail?	pg/uL	EDL	Height1	Noise1	S/N1	Height2	Noise2	S/N2	M
1	1234678-HpCDF	1.37e3	1.25e3	2.62e3	35.99	1.09	NO	9.856	1.57	2.32e4	1710	13.6	2.56e4	1672	15.3	bd
2	Total-heptafurans	1.35e2	8.02e1	2.15e2	36.14	1.69	YES	0.938	1.81	4.58e3	1710	2.7	5.46e3	1672	3.3	dd
3	Total-heptafurans	1.15e3	1.02e3	2.18e3	36.36	1.13	NO	9.481	1.81	2.62e4	1710	15.3	2.15e4	1672	12.9	bb

MANUAL INTEGRATION

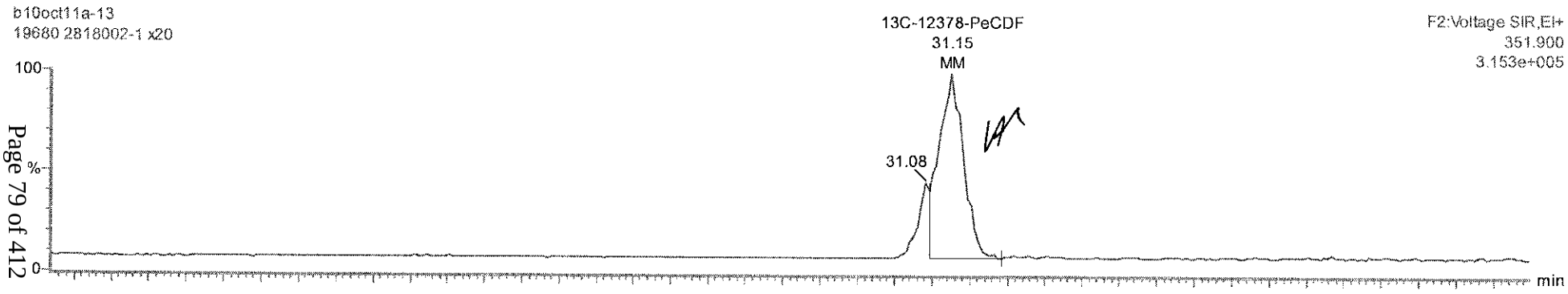


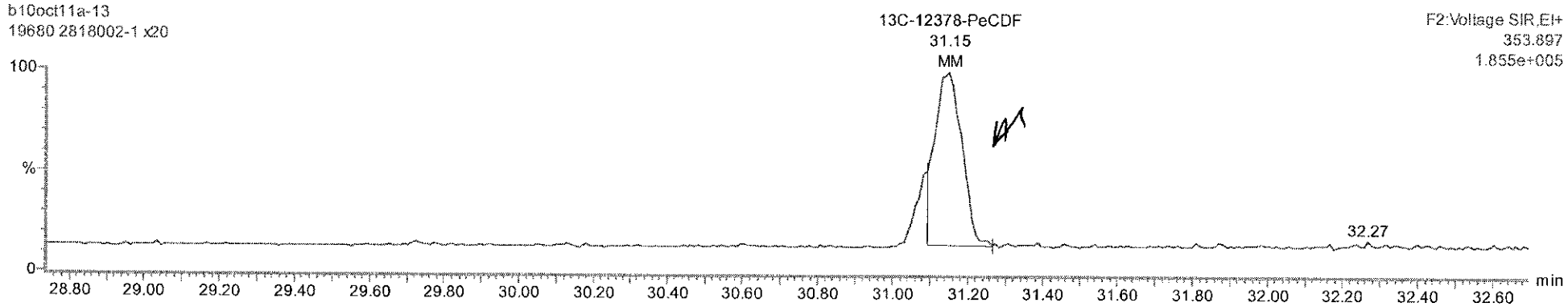


10/11/11

HMP 11Oct11

MANUAL INTEGRATION

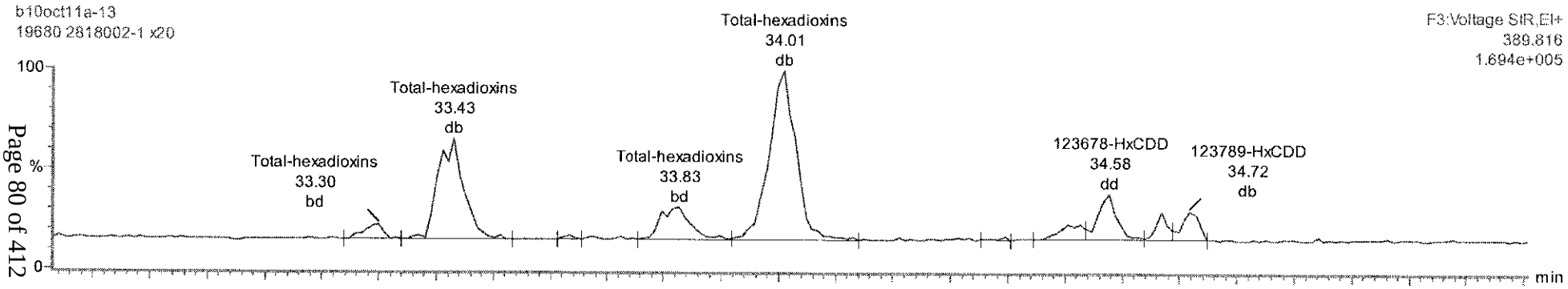


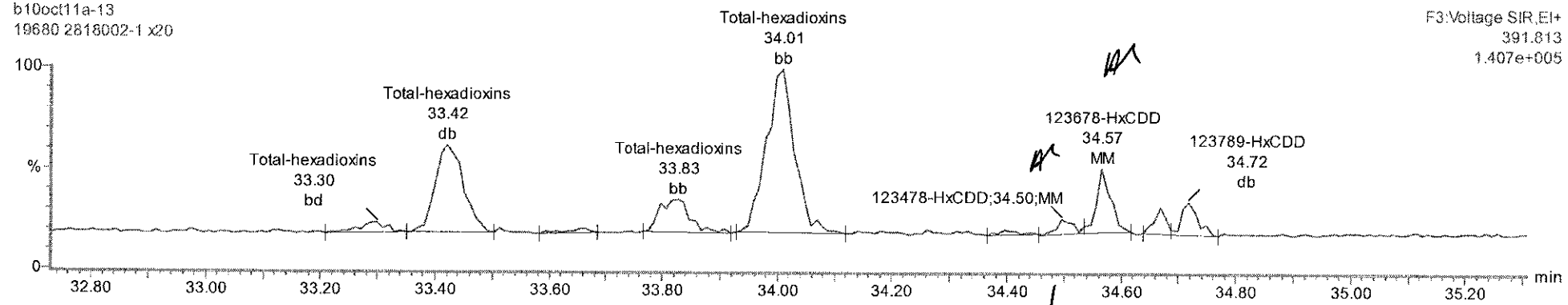


7/10/11

HMP 110ct11

MANUAL INTEGRATION

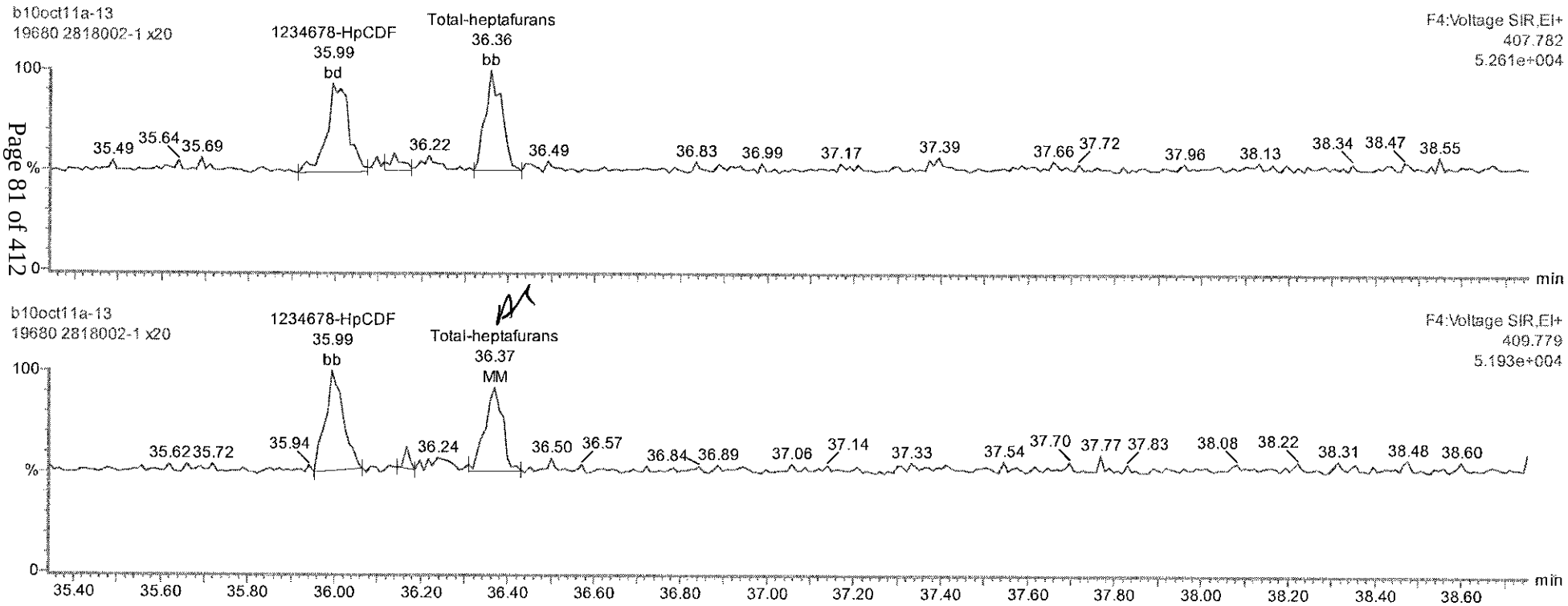




10/11/11

HMP 11Oct11

MANUAL INTEGRATION



Too/u/u

HMP 11Oct11

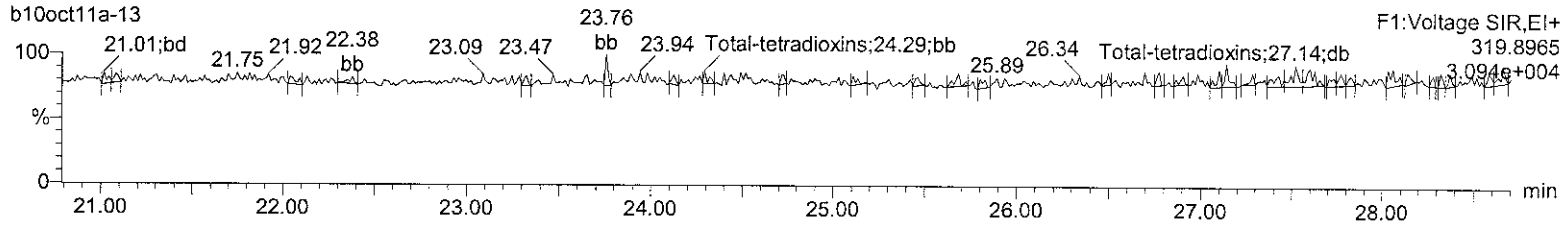
Quantify Sample Report **MassLynx 4.1**
Method 8290 Quantification Report

Dataset: C:\MassLynx\Default.pro\Sample Results\8290-b10oct11a.qld

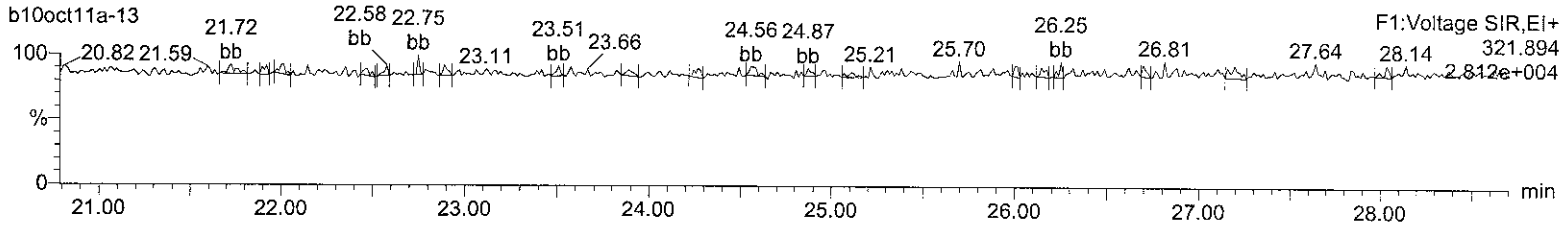
Last Altered: Tuesday, October 11, 2011 08:03:54 Eastern Standard Time
Printed: Tuesday, October 11, 2011 08:04:29 Eastern Standard Time

Name: b10oct11a-13, Date: 10-Oct-2011, Time: 22:15:37, ID: 2818002-1 x20, Description: 19680, Job: HMS8290_1S, Task: HRP763_1, User: MJC

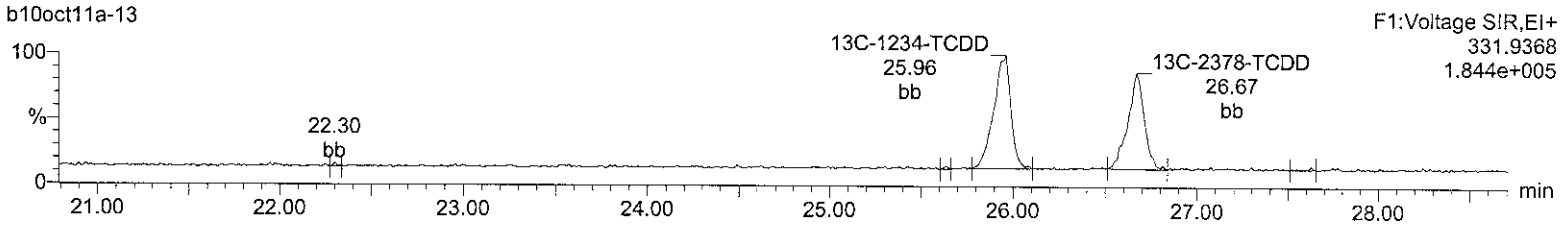
Total-tetradioxins



Total-tetradioxins



13C-2378-TCDD



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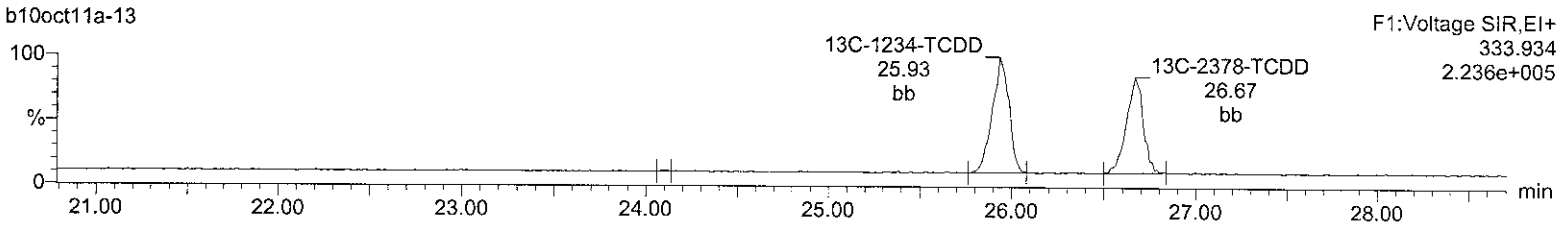
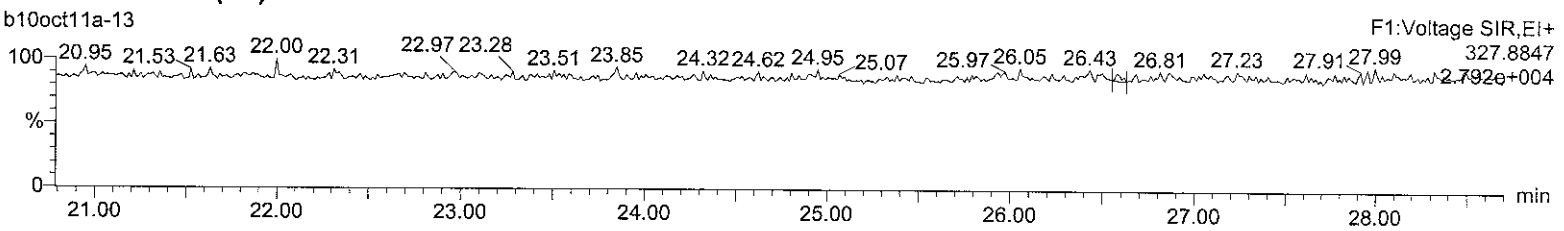
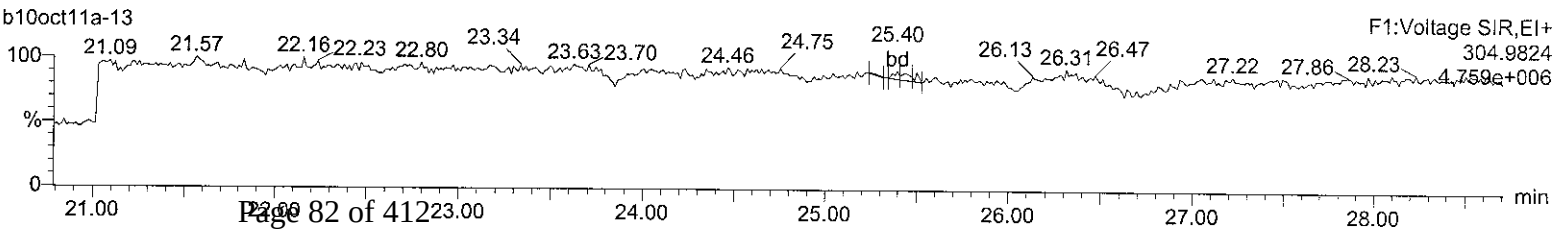


37Cl-2378-TCDD (SS)



Lock Mass F1



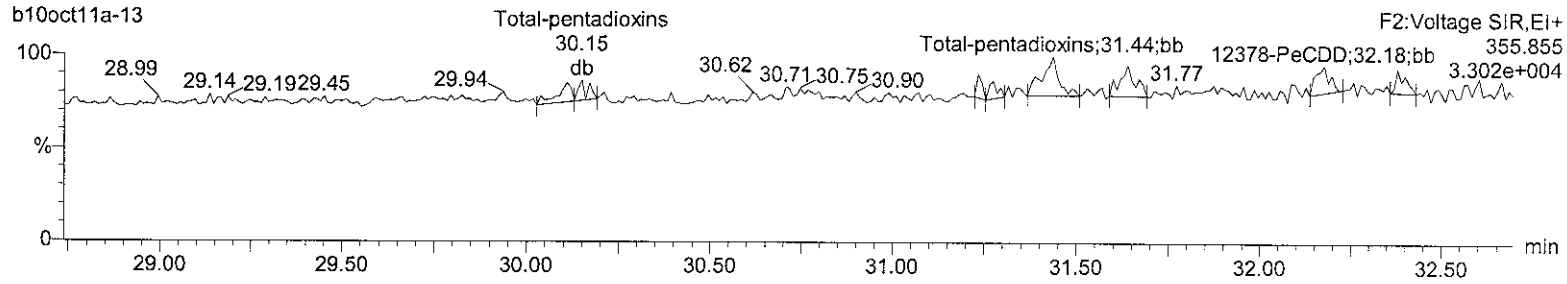
Quantify Sample Report **MassLynx 4.1**
Method 8290 Quantification Report

Dataset: C:\MassLynx\Default.pro\Sample Results\8290-b10oct11a.qld

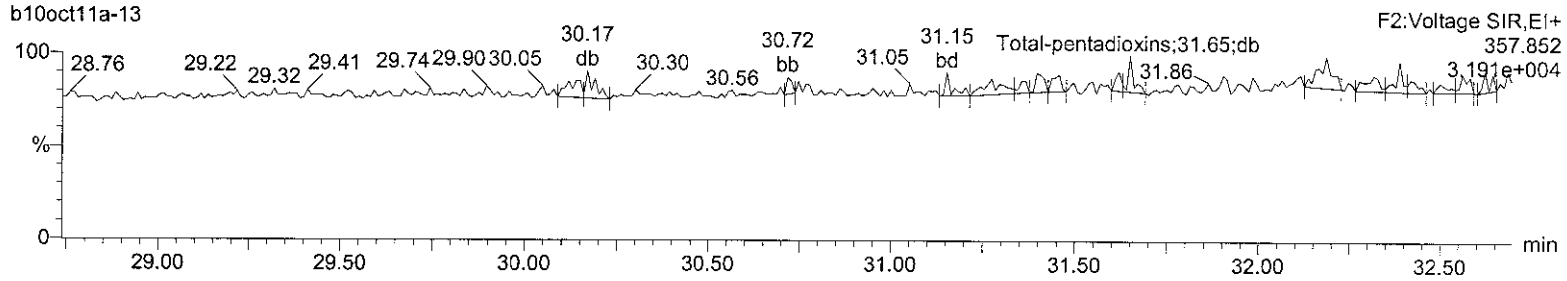
Last Altered: Tuesday, October 11, 2011 08:03:54 Eastern Standard Time
Printed: Tuesday, October 11, 2011 08:04:29 Eastern Standard Time

Name: b10oct11a-13, Date: 10-Oct-2011, Time: 22:15:37, ID: 2818002-1 x20, Description: 19680, Job: HMS8290_1S, Task: HRP763_1, User: MJC

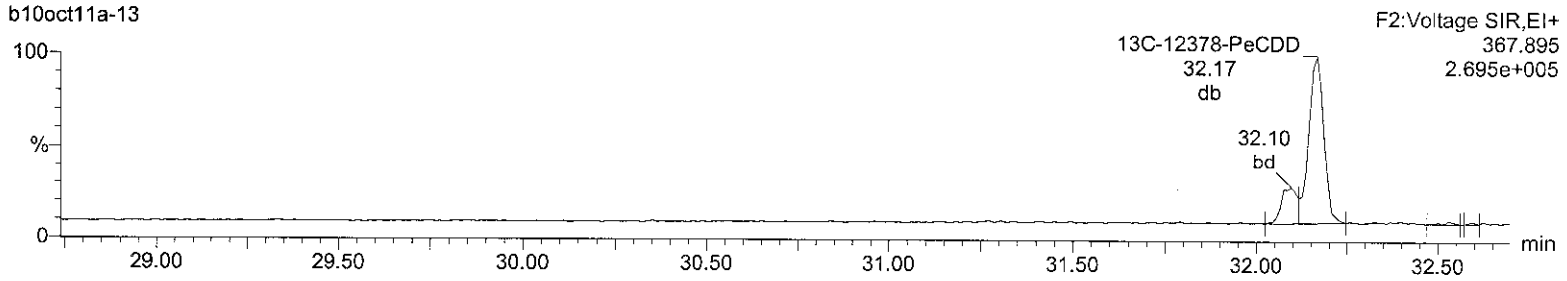
Total-pentadioxins



Total-pentadioxins



13C-12378-PeCDD



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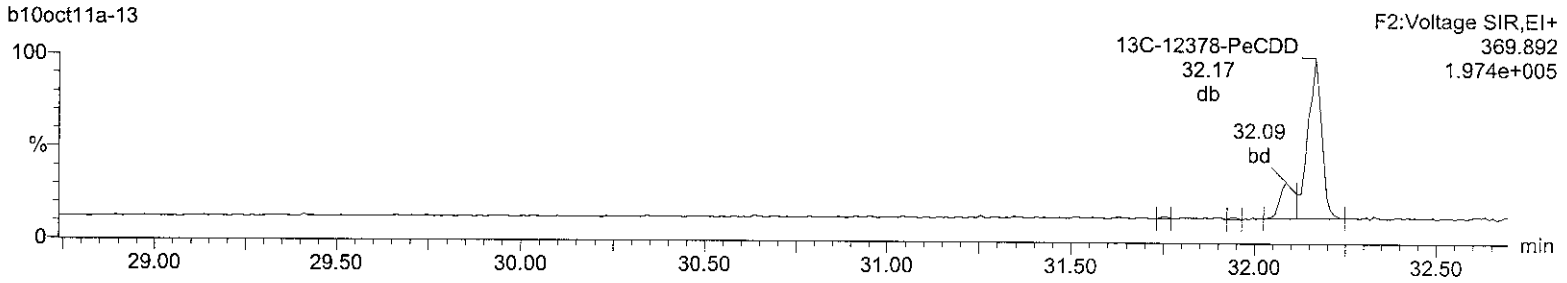
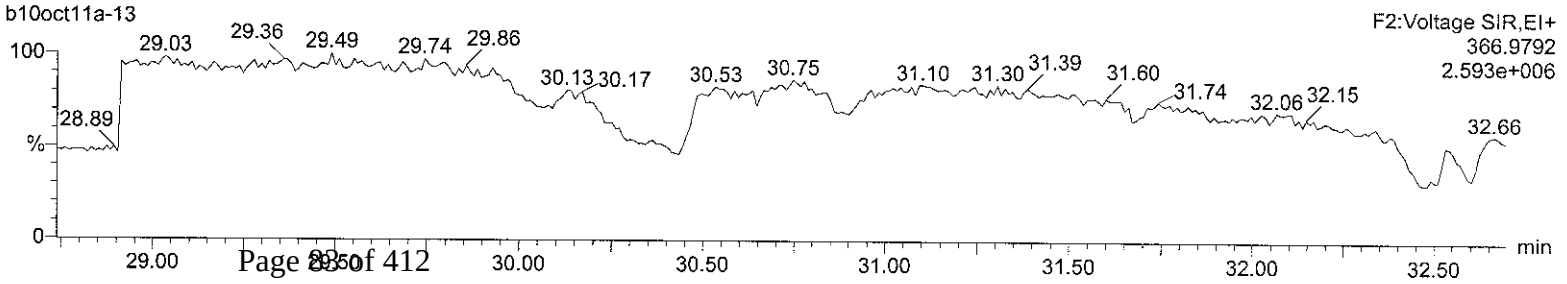


Lock Mass F2



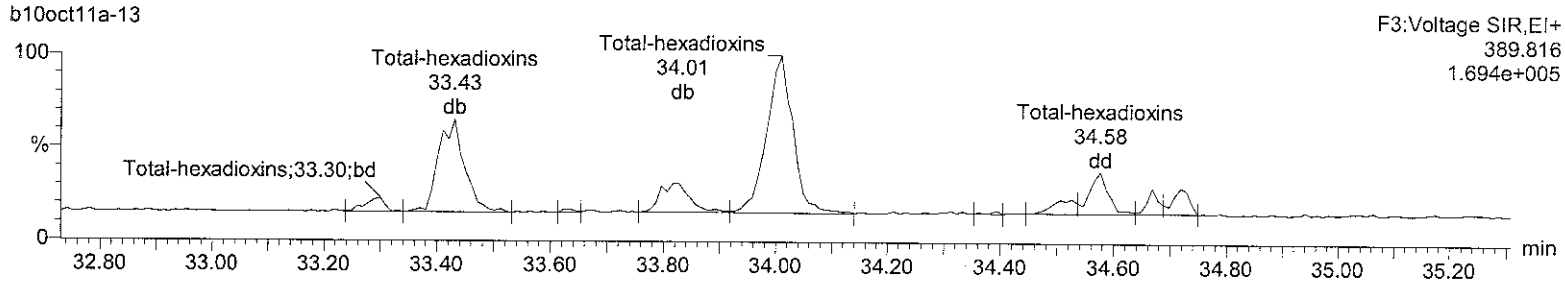
Quantify Sample Report **MassLynx 4.1**
Method 8290 Quantification Report

Dataset: C:\MassLynx\Default.pro\Sample Results\8290-b10oct11a.qld

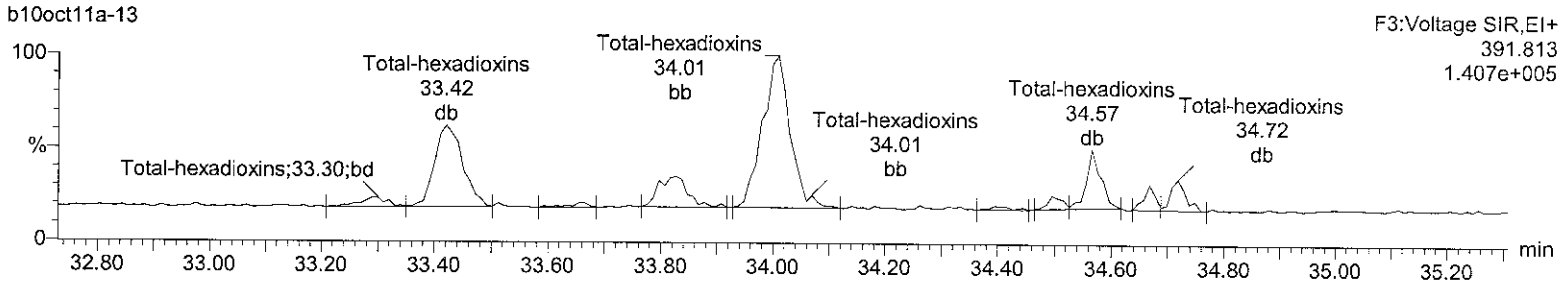
Last Altered: Tuesday, October 11, 2011 08:03:54 Eastern Standard Time
Printed: Tuesday, October 11, 2011 08:04:29 Eastern Standard Time

Name: b10oct11a-13, Date: 10-Oct-2011, Time: 22:15:37, ID: 2818002-1 x20, Description: 19680, Job: HMS8290_1S, Task: HRP763_1, User: MJC

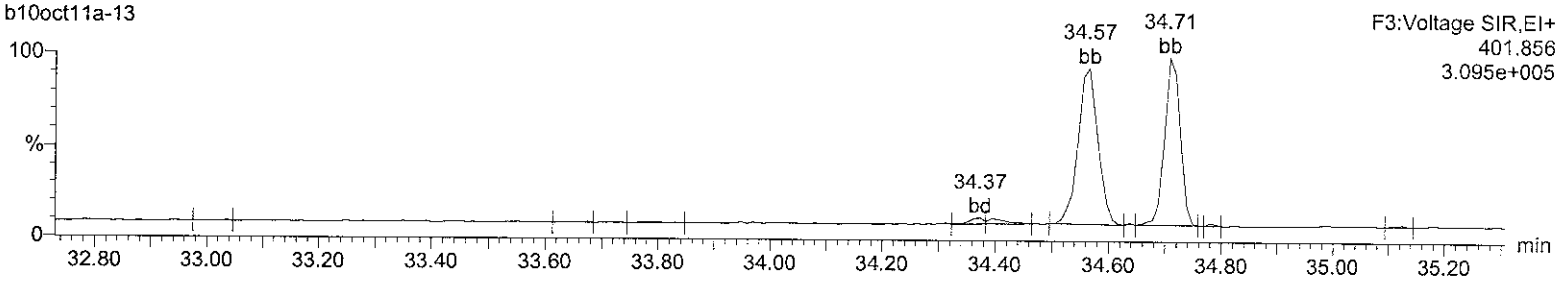
Total-hexadioxins



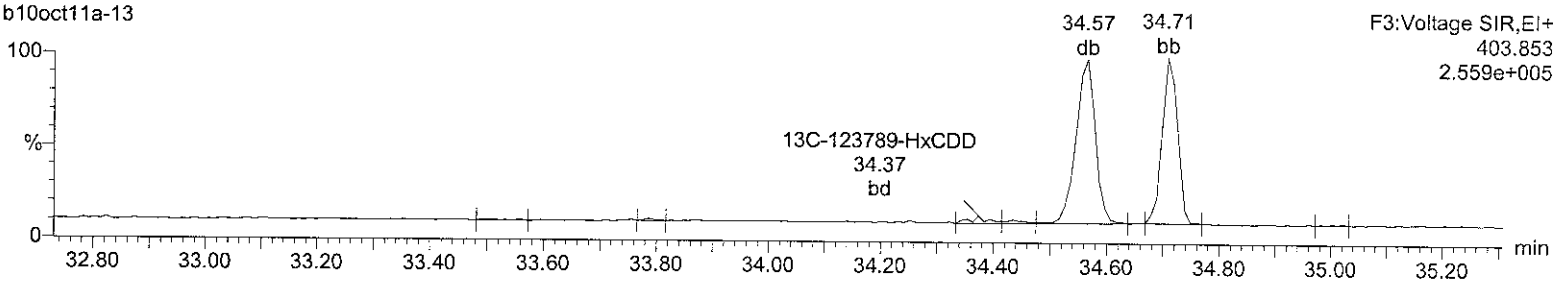
Total-hexadioxins



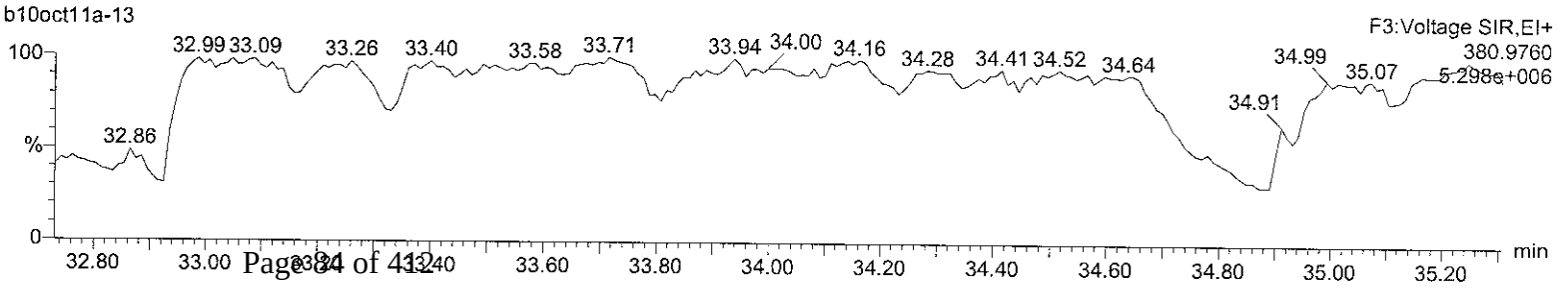
13C-123678-HxCDD



13C-123678-HxCDD



Lock Mass F3



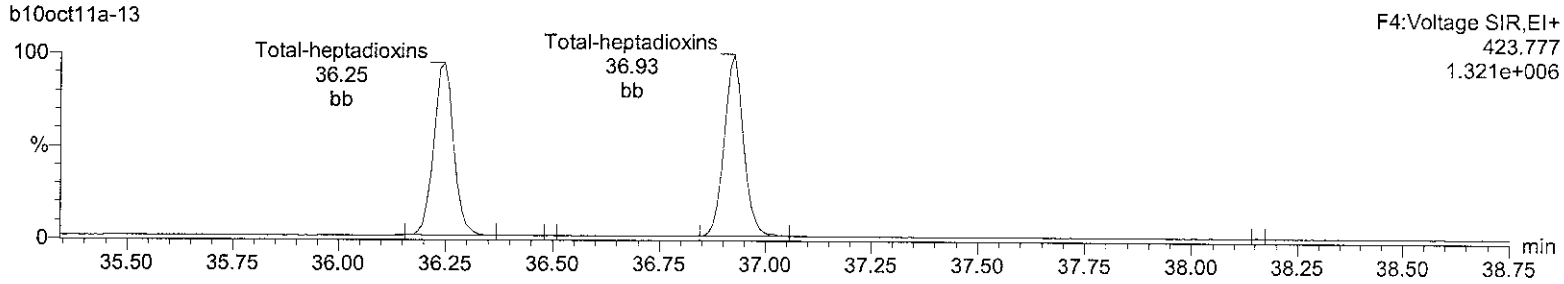
Quantify Sample Report **MassLynx 4.1**
Method 8290 Quantification Report

Dataset: C:\MassLynx\Default.pro\Sample Results\8290-b10oct11a.qld

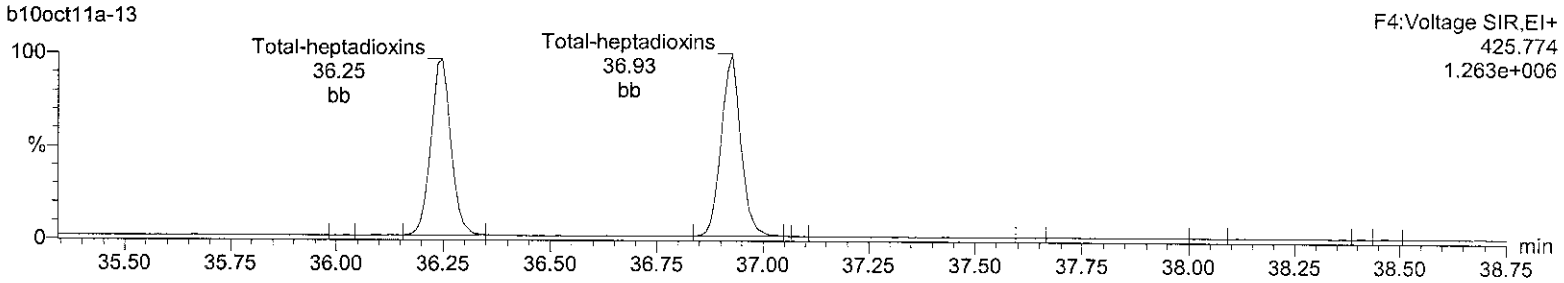
Last Altered: Tuesday, October 11, 2011 08:03:54 Eastern Standard Time
Printed: Tuesday, October 11, 2011 08:04:29 Eastern Standard Time

Name: b10oct11a-13, Date: 10-Oct-2011, Time: 22:15:37, ID: 2818002-1 x20, Description: 19680, Job: HMS8290_1S, Task: HRP763_1, User: MJC

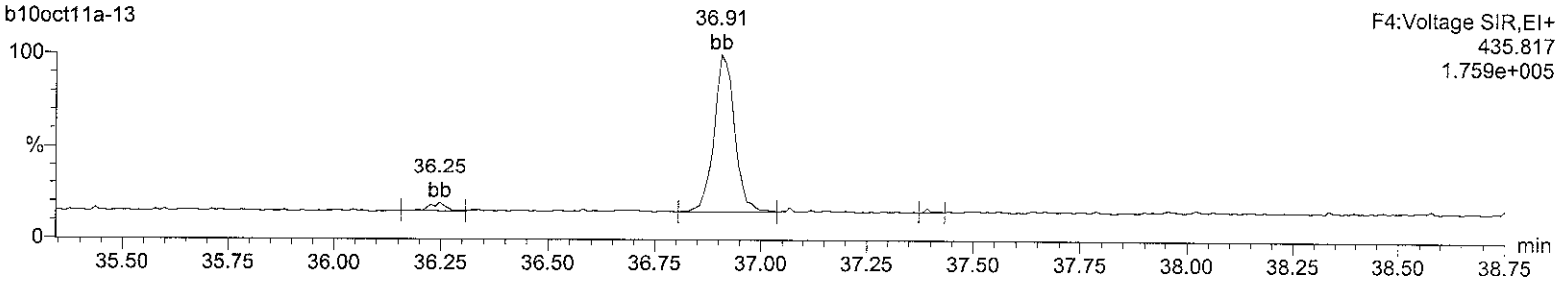
Total-heptadioxins



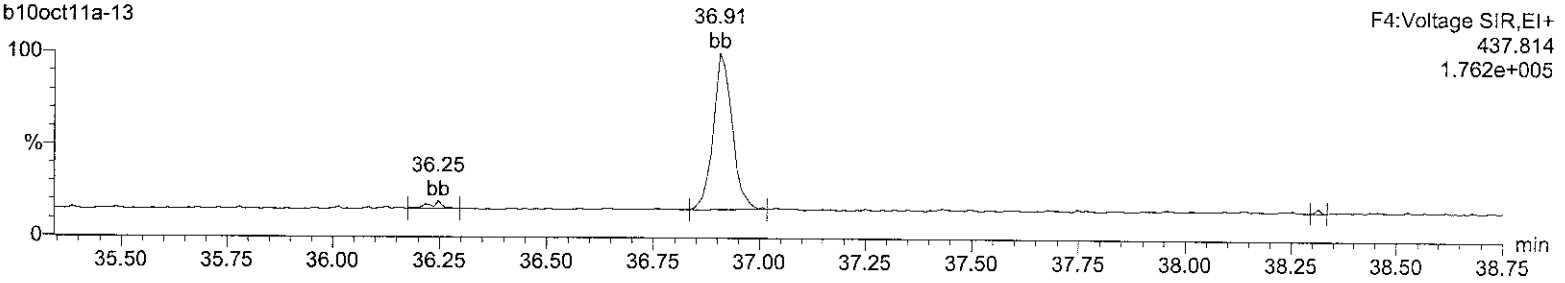
Total-heptadioxins



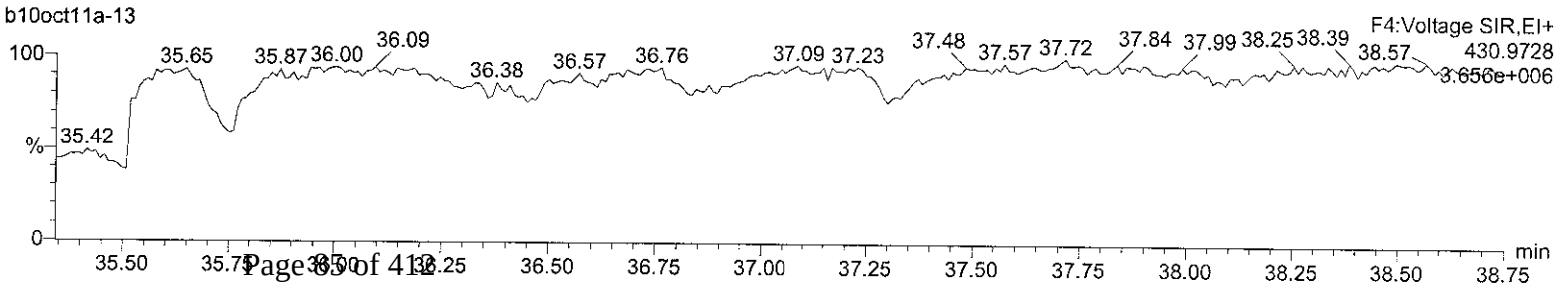
13C-1234678-HpCDD



13C-1234678-HpCDD



Lock Mass F4



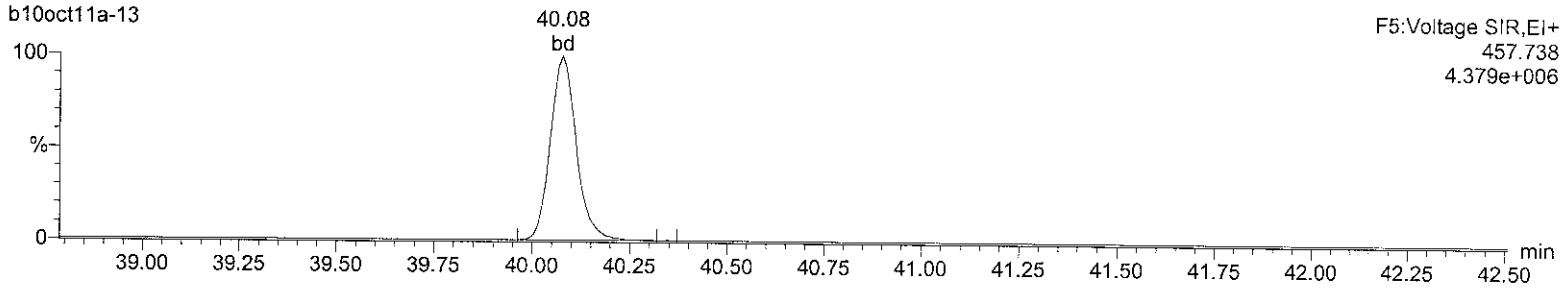
Quantify Sample Report **MassLynx 4.1**
Method 8290 Quantification Report

Dataset: C:\MassLynx\Default.pro\Sample Results\8290-b10oct11a.qld

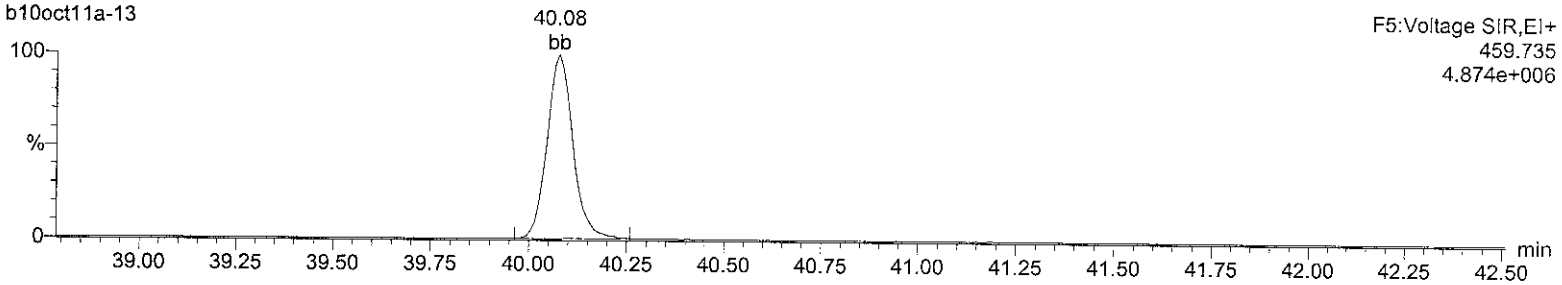
Last Altered: Tuesday, October 11, 2011 08:03:54 Eastern Standard Time
Printed: Tuesday, October 11, 2011 08:04:29 Eastern Standard Time

Name: b10oct11a-13, Date: 10-Oct-2011, Time: 22:15:37, ID: 2818002-1 x20, Description: 19680, Job: HMS8290_1S, Task: HRP763_1, User: MJC

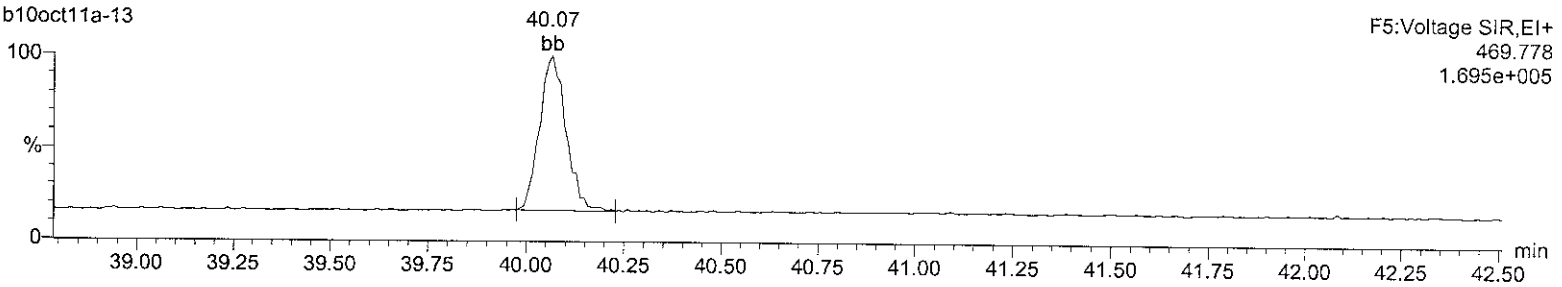
OCDD



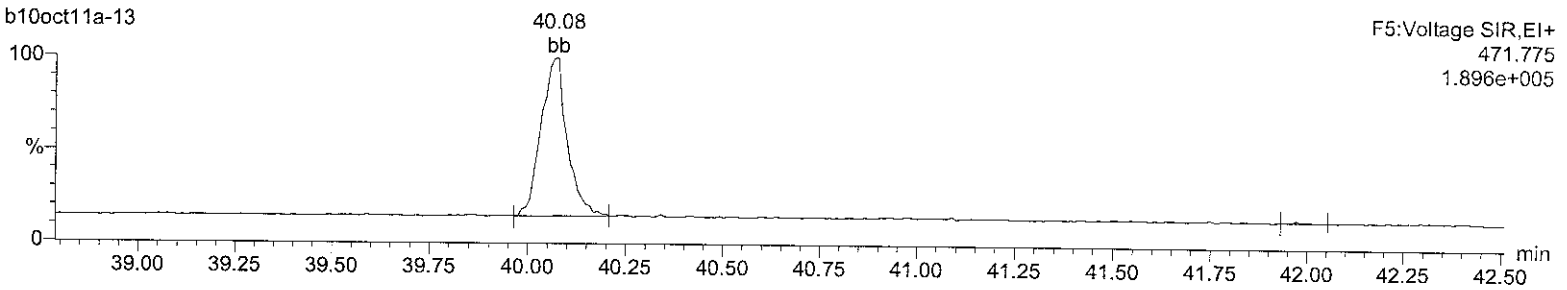
OCDD



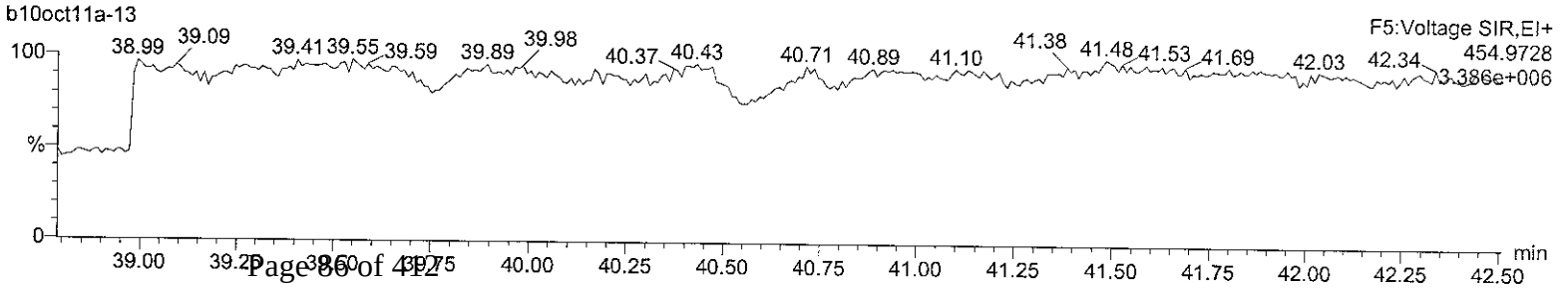
13C-OCDD



13C-OCDD



Lock Mass F5



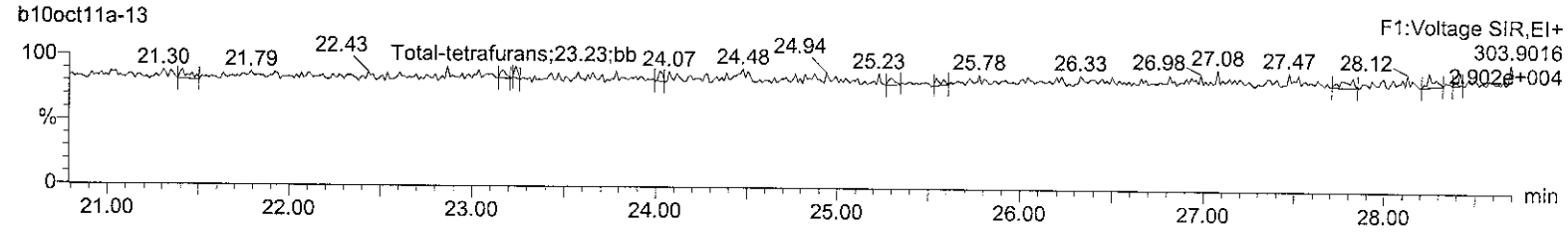
Quantify Sample Report **MassLynx 4.1**
Method 8290 Quantification Report

Dataset: C:\MassLynx\Default.pro\Sample Results\8290-b10oct11a.qld

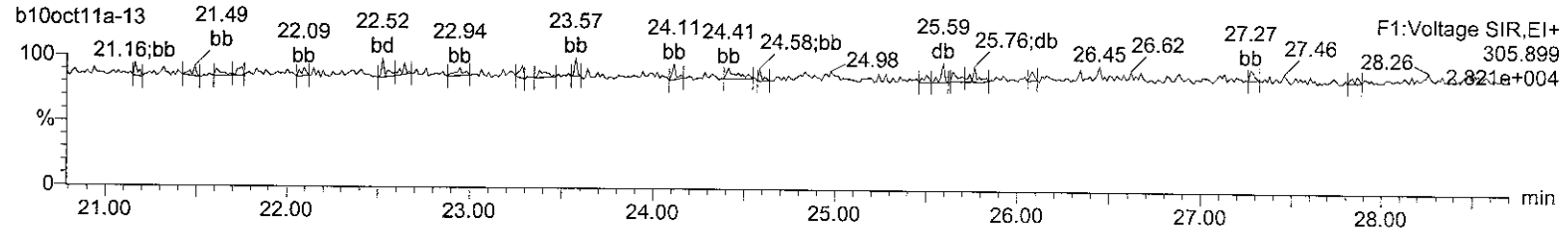
Last Altered: Tuesday, October 11, 2011 08:03:54 Eastern Standard Time
Printed: Tuesday, October 11, 2011 08:04:29 Eastern Standard Time

Name: b10oct11a-13, Date: 10-Oct-2011, Time: 22:15:37, ID: 2818002-1 x20, Description: 19680, Job: HMS8290_1S, Task: HRP763_1, User: MJC

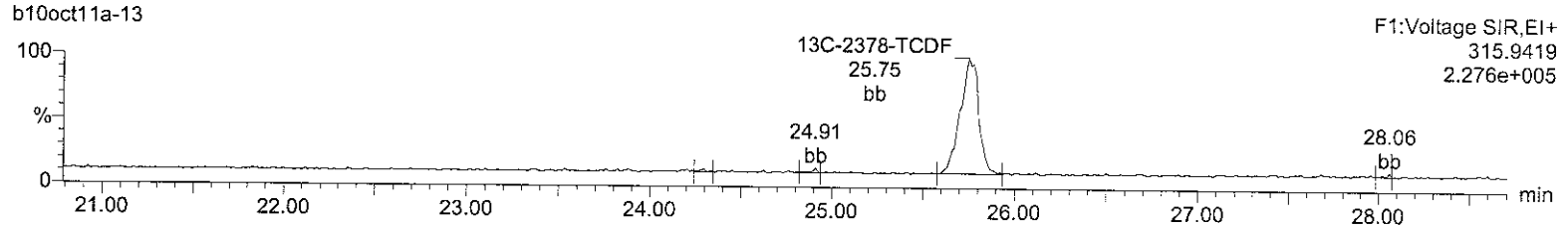
Total-tetrafurans



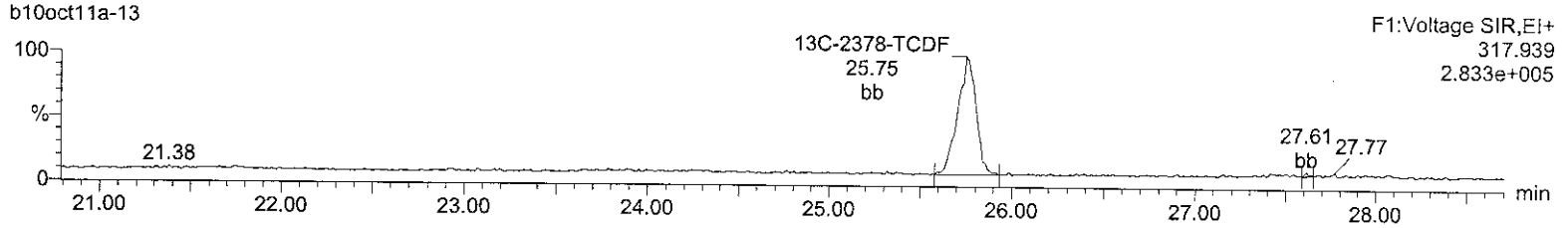
Total-tetrafurans



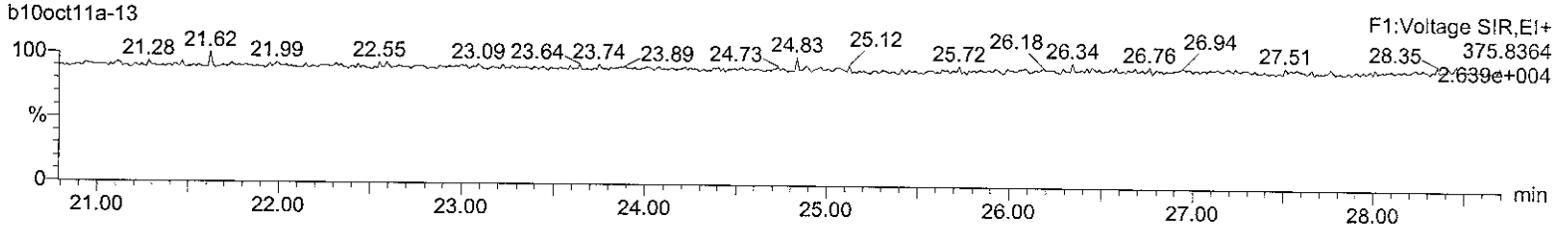
13C-2378-TCDF



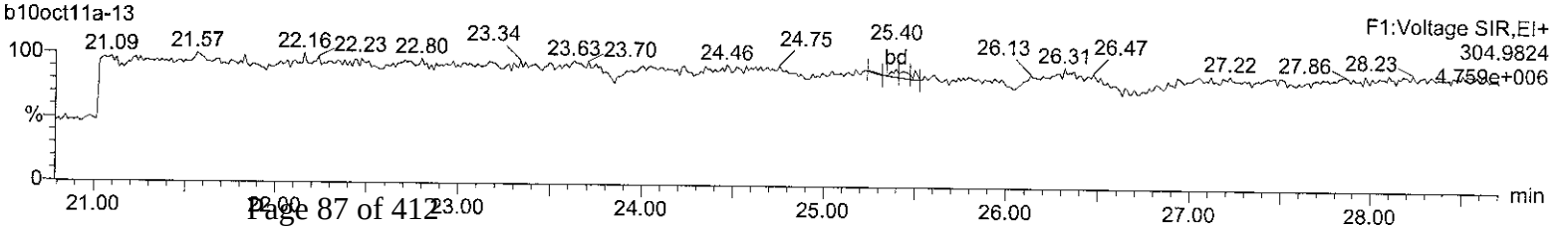
13C-2378-TCDF



HxDPE



Lock Mass F1



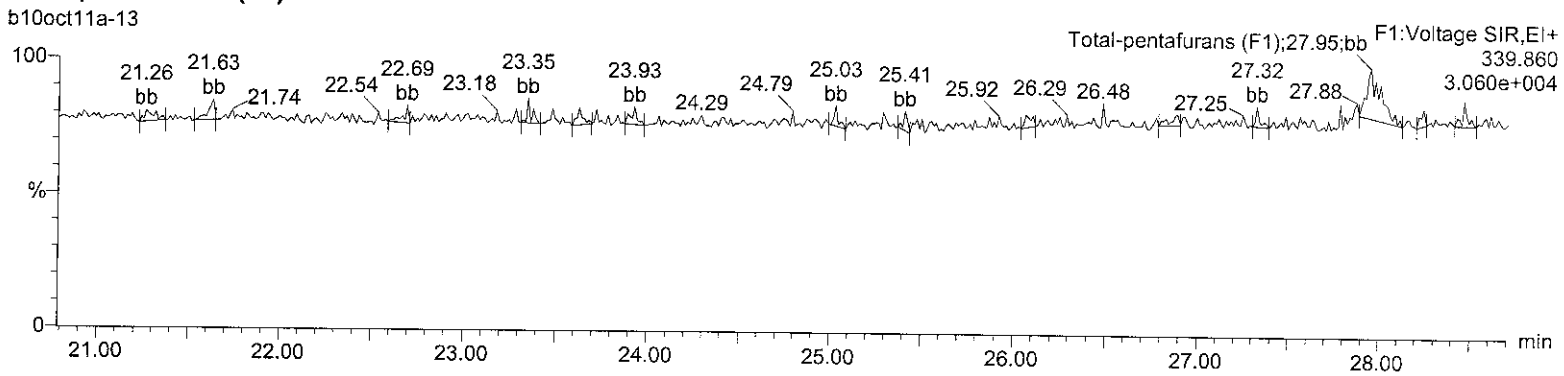
Quantify Sample Report **MassLynx 4.1**
Method 8290 Quantification Report

Dataset: C:\MassLynx\Default.pro\Sample Results\8290-b10oct11a.qld

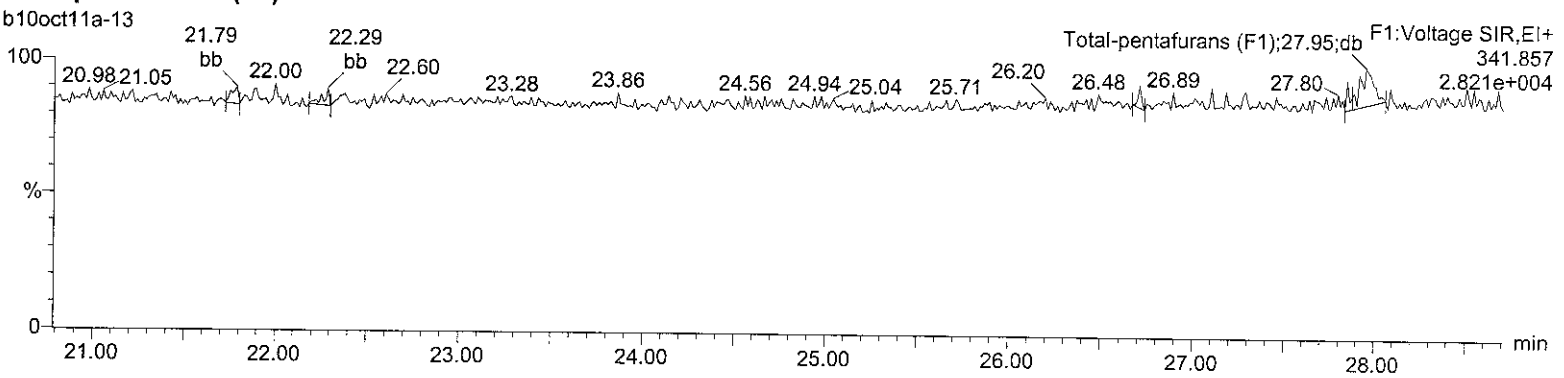
Last Altered: Tuesday, October 11, 2011 08:03:54 Eastern Standard Time
Printed: Tuesday, October 11, 2011 08:04:29 Eastern Standard Time

Name: b10oct11a-13, Date: 10-Oct-2011, Time: 22:15:37, ID: 2818002-1 x20, Description: 19680, Job: HMS8290_1S, Task: HRP763_1, User: MJC

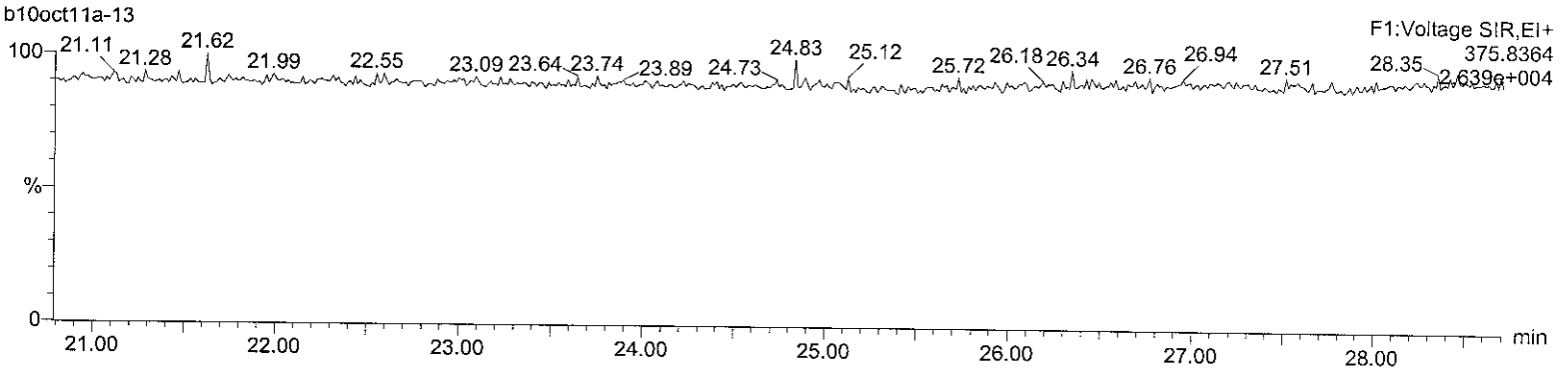
Total-pentafurans (F1)



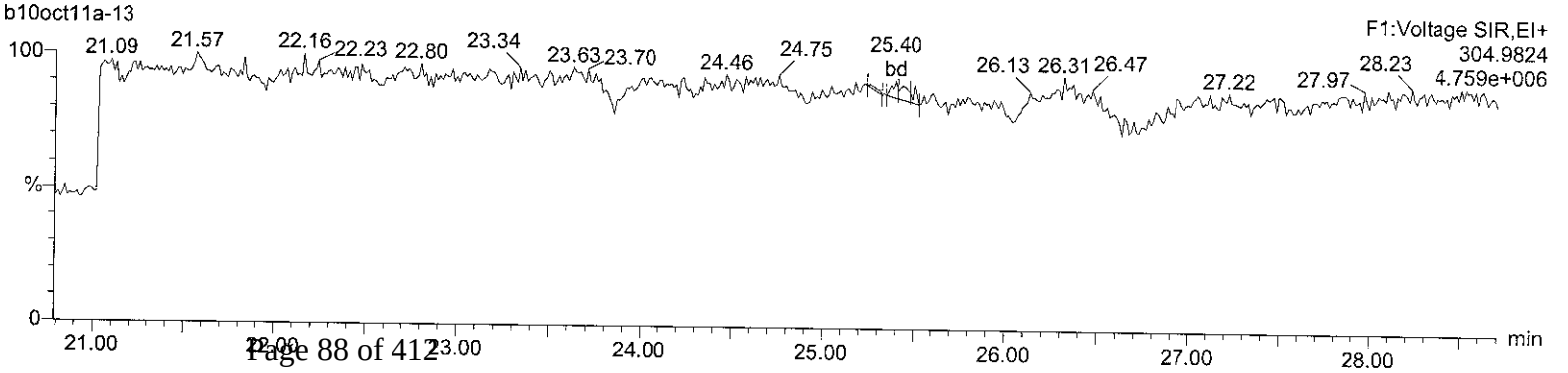
Total-pentafurans (F1)



HxDPE



Lock Mass F1



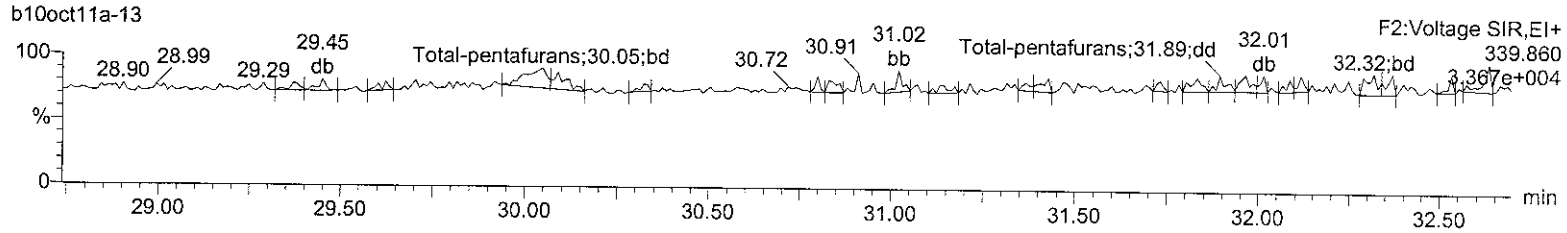
Quantify Sample Report **MassLynx 4.1**
Method 8290 Quantification Report

Dataset: C:\MassLynx\Default.pro\Sample Results\8290-b10oct11a.qld

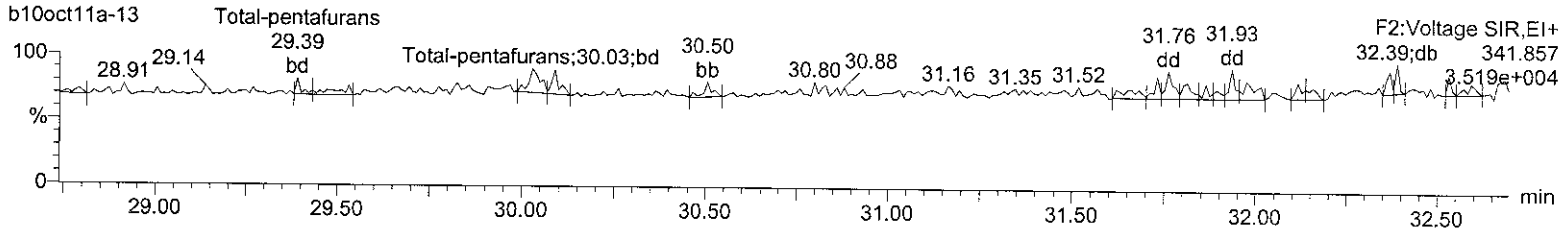
Last Altered: Tuesday, October 11, 2011 08:03:54 Eastern Standard Time
Printed: Tuesday, October 11, 2011 08:04:29 Eastern Standard Time

Name: b10oct11a-13, Date: 10-Oct-2011, Time: 22:15:37, ID: 2818002-1 x20, Description: 19680, Job: HMS8290_1S, Task: HRP763_1, User: MJC

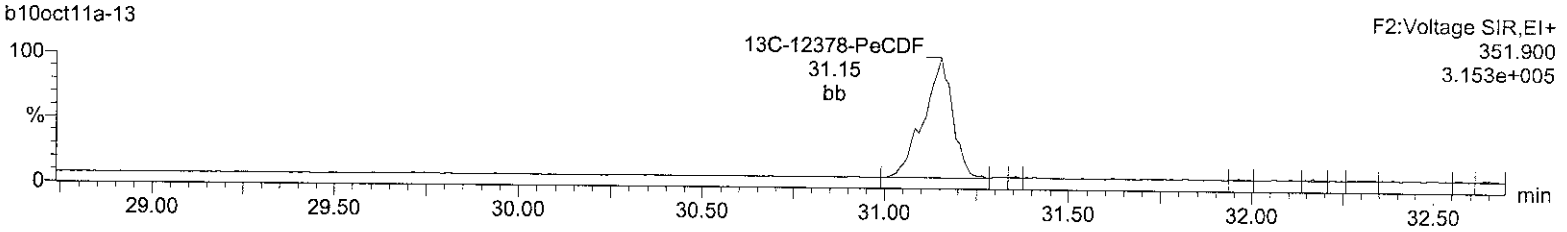
Total-pentafurans



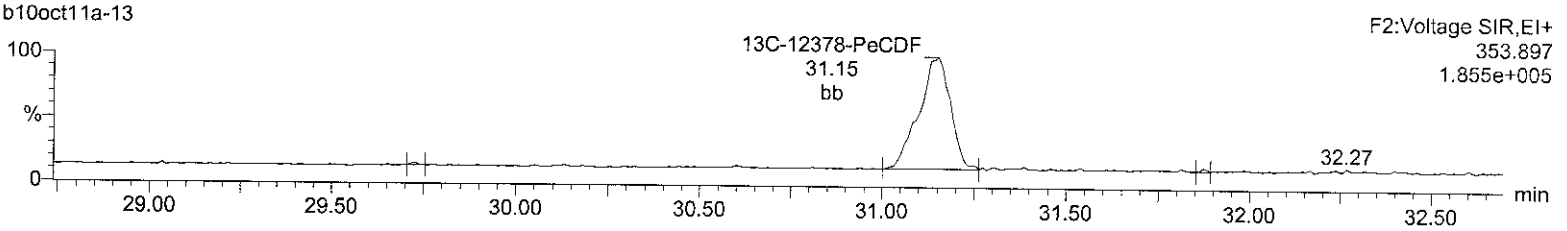
Total-pentafurans



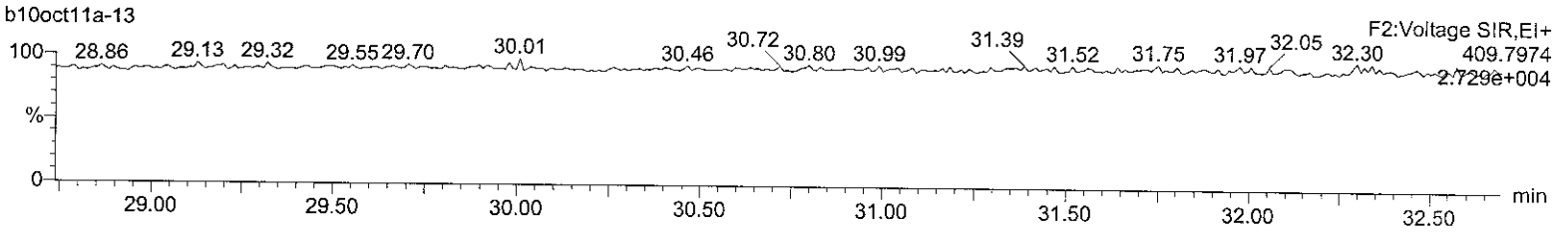
13C-12378-PeCDF



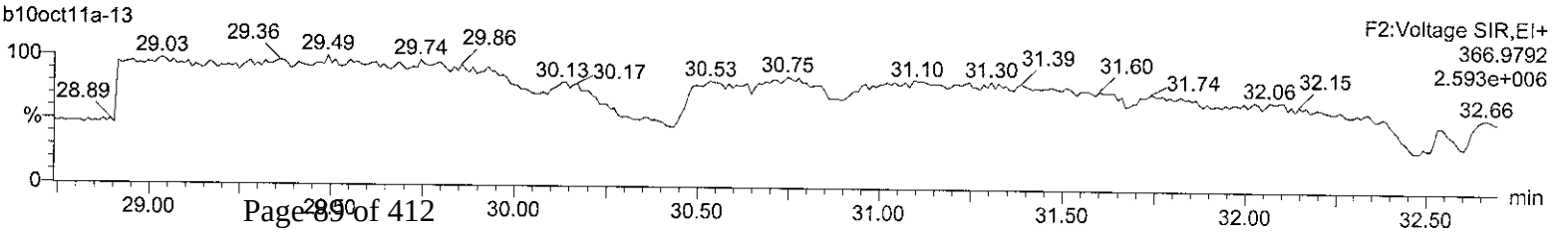
13C-12378-PeCDF



HpDPE



Lock Mass F2



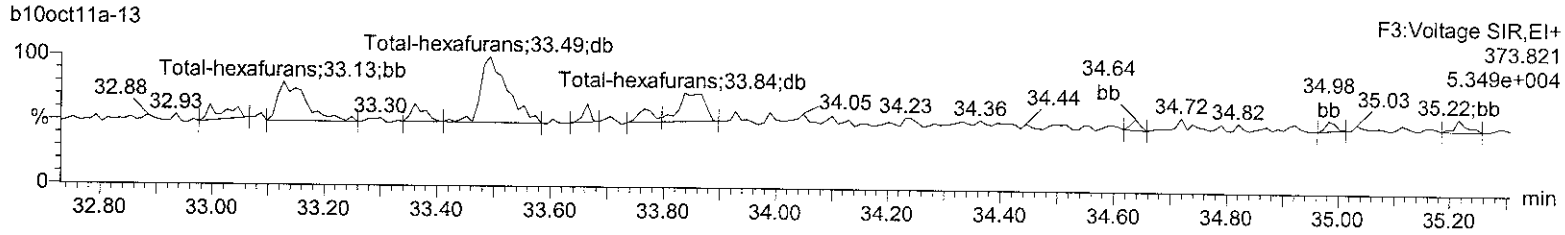
Quantify Sample Report **MassLynx 4.1**
Method 8290 Quantification Report

Dataset: C:\MassLynx\Default.pro\Sample Results\8290-b10oct11a.qld

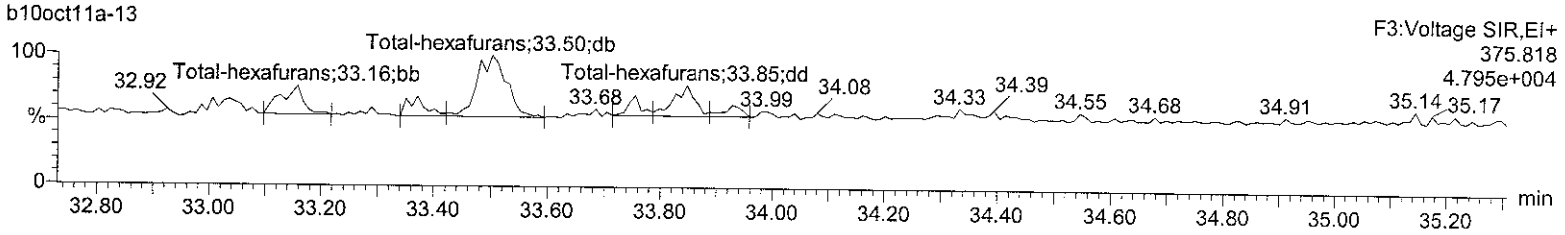
Last Altered: Tuesday, October 11, 2011 08:03:54 Eastern Standard Time
Printed: Tuesday, October 11, 2011 08:04:29 Eastern Standard Time

Name: b10oct11a-13, Date: 10-Oct-2011, Time: 22:15:37, ID: 2818002-1 x20, Description: 19680, Job: HMS8290_1S, Task: HRP763_1, User: MJC

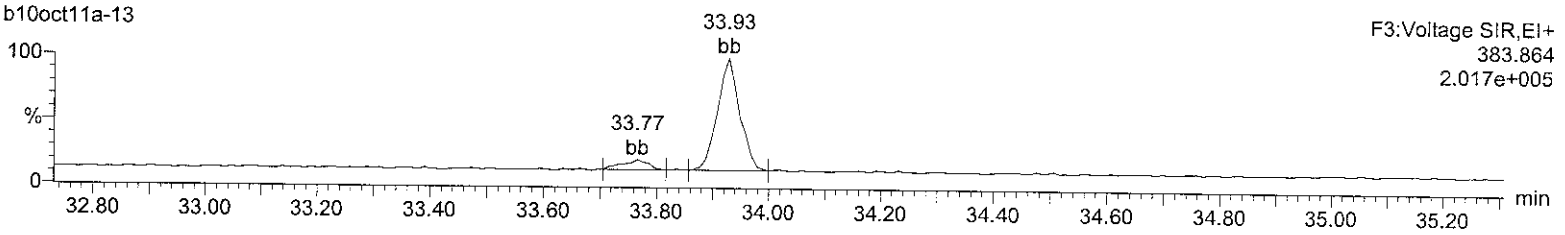
Total-hexafurans



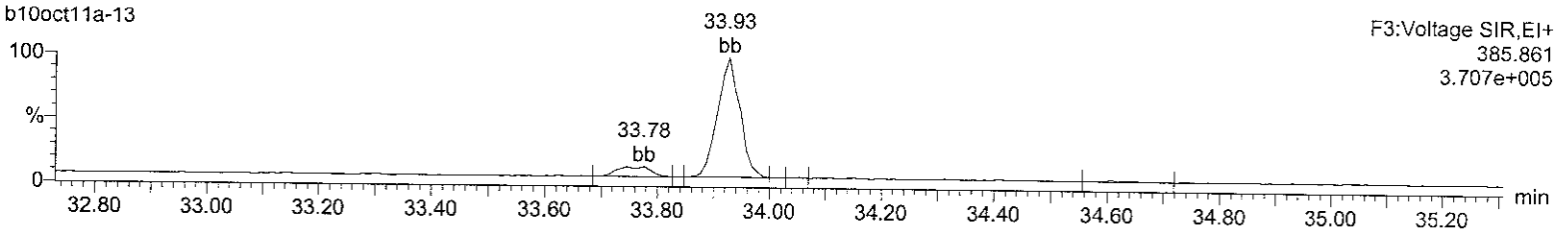
Total-hexafurans



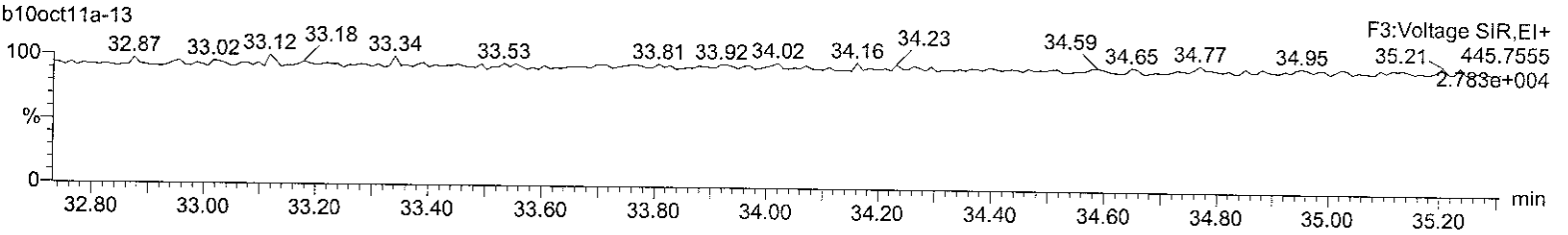
13C-123678-HxCDF



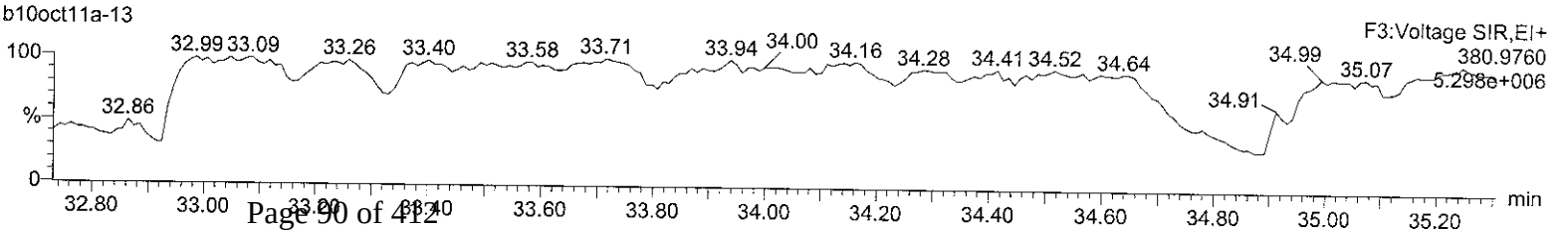
13C-123678-HxCDF



OcDPE



Lock Mass F3



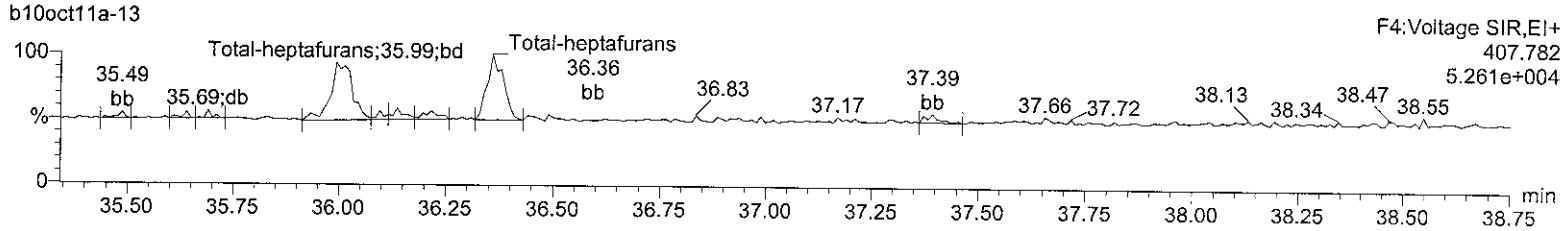
Quantify Sample Report **MassLynx 4.1**
Method 8290 Quantification Report

Dataset: C:\MassLynx\Default.pro\Sample Results\8290-b10oct11a.qld

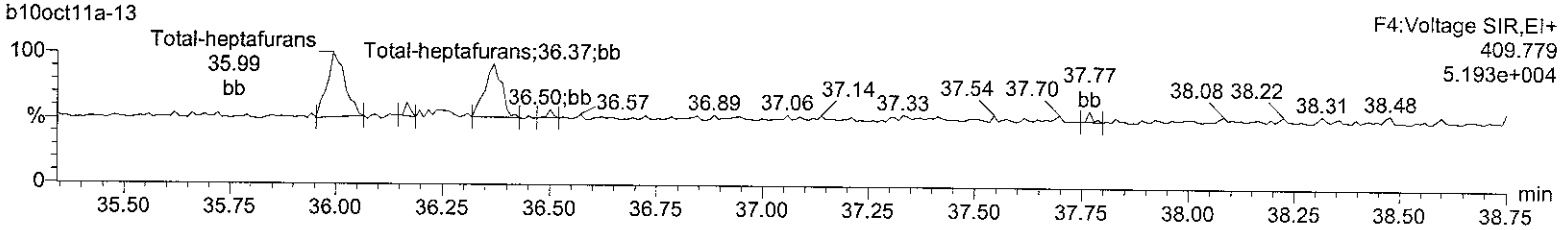
Last Altered: Tuesday, October 11, 2011 08:03:54 Eastern Standard Time
Printed: Tuesday, October 11, 2011 08:04:29 Eastern Standard Time

Name: b10oct11a-13, Date: 10-Oct-2011, Time: 22:15:37, ID: 2818002-1 x20, Description: 19680, Job: HMS8290_1S, Task: HRP763_1, User: MJC

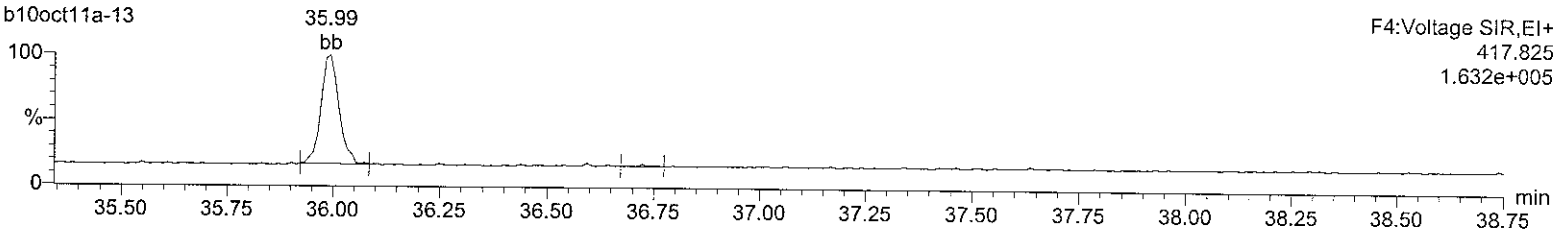
Total-heptafurans



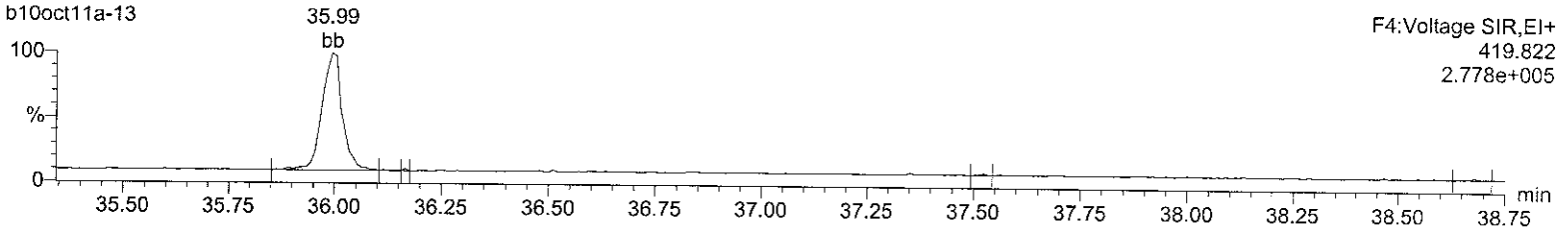
Total-heptafurans



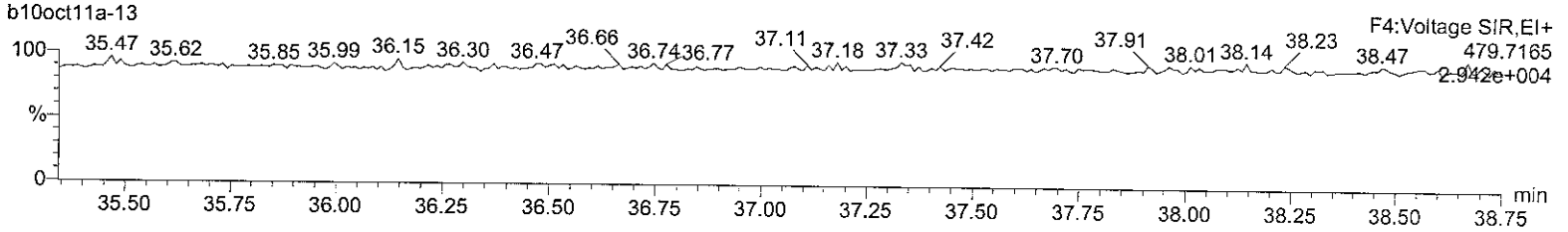
13C-1234678-HpCDF



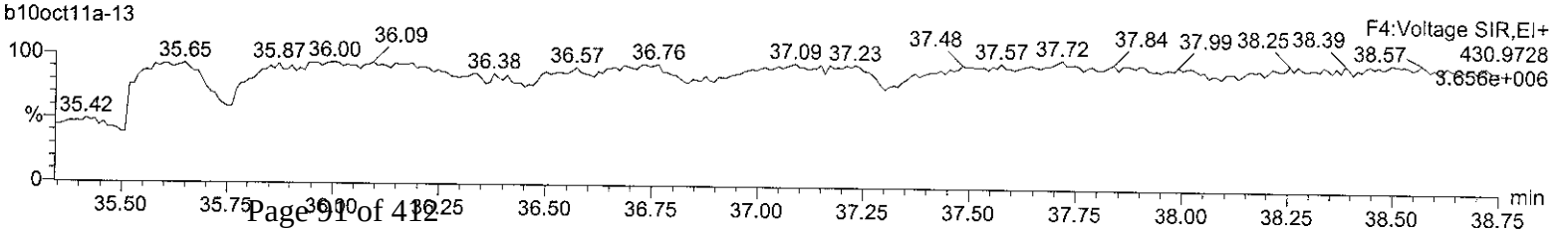
13C-1234678-HpCDF



NoDPE



Lock Mass F4



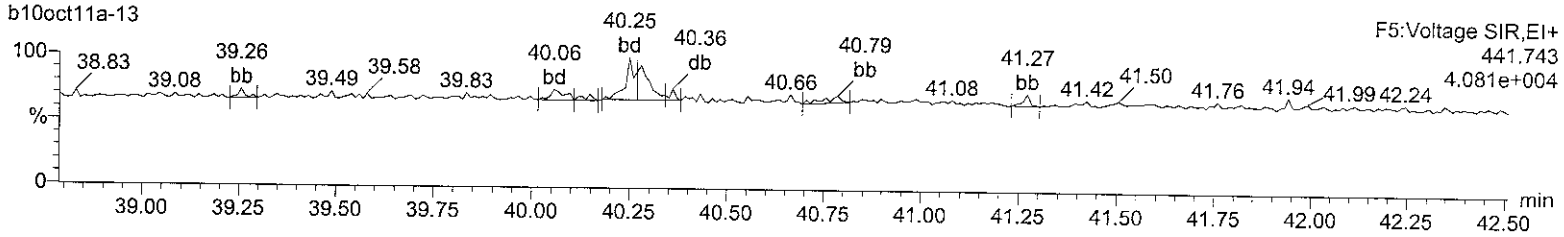
Quantify Sample Report **MassLynx 4.1**
Method 8290 Quantification Report

Dataset: C:\MassLynx\Default.pro\Sample Results\8290-b10oct11a.qld

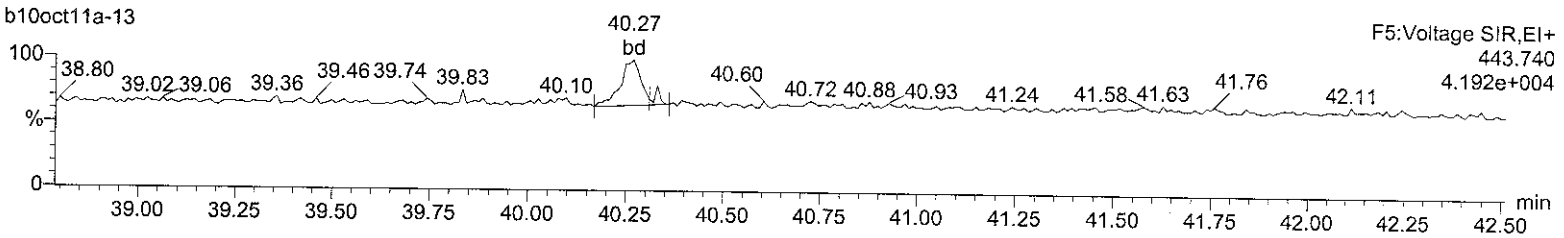
Last Altered: Tuesday, October 11, 2011 08:03:54 Eastern Standard Time
Printed: Tuesday, October 11, 2011 08:04:29 Eastern Standard Time

Name: b10oct11a-13, Date: 10-Oct-2011, Time: 22:15:37, ID: 2818002-1 x20, Description: 19680, Job: HMS8290_1S, Task: HRP763_1, User: MJC

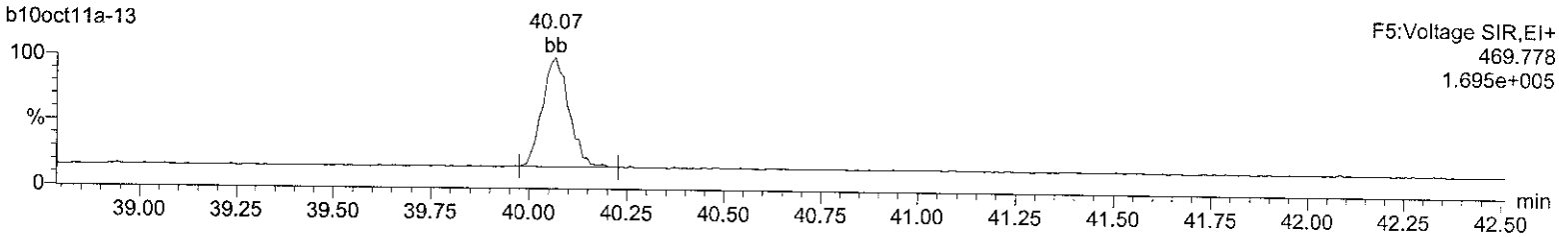
OCDF



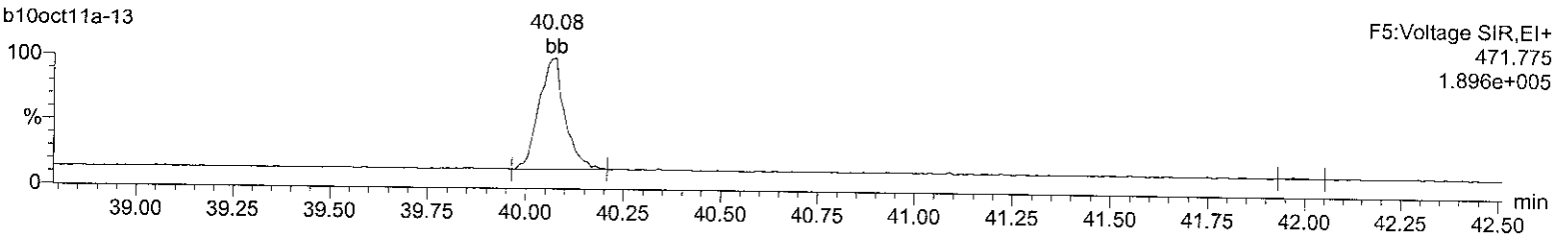
OCDF



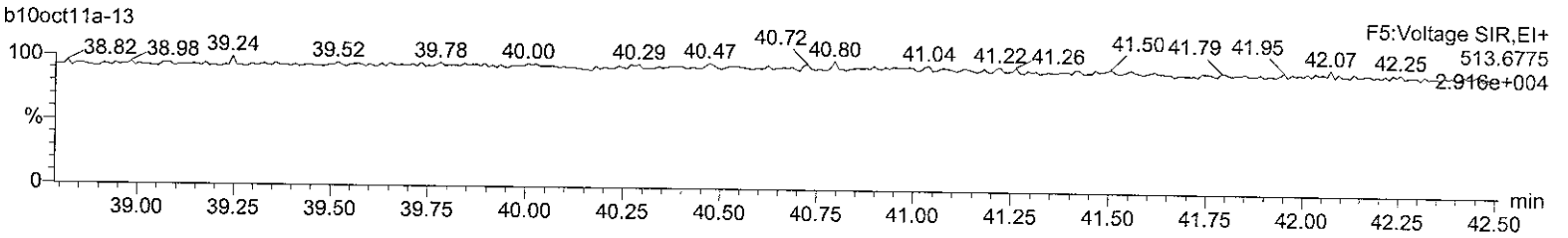
13C-OCDD



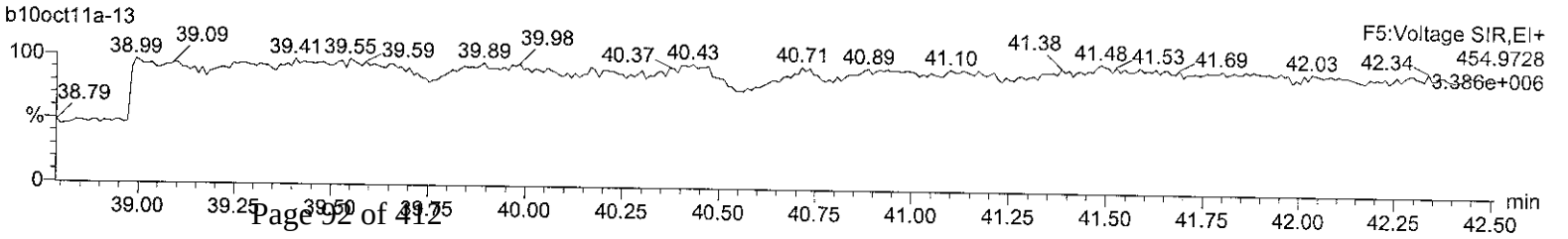
13C-OCDD



DeDPE



Lock Mass F5



Hi-Res Dioxins/Furans
Certificate of Analysis
Sample Summary

SDG Number:	**1109191**	**Client:**	**EMPI001**	**Project:**	**EMPI00311**
Lab Sample ID:	**2818004**	**Date Collected:**	**09/22/2011 11:15**	**Matrix:**	**WATER**
Client Sample:	**8290 Water**	**Date Received:**	**09/27/2011 11:45**		
Client ID:	**FLC-4-RB01-092211**			**Prep Basis:**	**As Received**
Batch ID:	**19685**	**Method:**	**SW846 8290A**		
Run Date:	**10/11/2011 05:04**	**Analyst:**	**MJC**	**Instrument:**	**HRP763**
Data File:	**b10oct11a_2-7**			**Dilution:**	**1**
Prep Batch:	**19665**	**Prep Method:**	**SW846 3520C**		
Prep Date:	**04-OCT-11**	**Aliquot:**	**1043.5 mL**		

CAS No.	Parmname	Qual	Result	EMPC	Units	EDL	PQL
1746-01-6	2,3,7,8-TCDD	U	2.18		pg/L	2.18	9.58
40321-76-4	1,2,3,7,8-PeCDD	U	1.17		pg/L	1.17	47.9
39227-28-6	1,2,3,4,7,8-HxCDD	U	1.2		pg/L	1.20	47.9
57653-85-7	1,2,3,6,7,8-HxCDD	U	1.11		pg/L	1.11	47.9
19408-74-3	1,2,3,7,8,9-HxCDD	U	1.24		pg/L	1.24	47.9
35822-46-9	1,2,3,4,6,7,8-HpCDD	U	1.54		pg/L	1.54	47.9
3268-87-9	1,2,3,4,6,7,8,9-OCDD	JK		3.93	pg/L	2.49	95.8
51207-31-9	2,3,7,8-TCDF	U	1.31		pg/L	1.31	9.58
57117-41-6	1,2,3,7,8-PeCDF	U	1.57		pg/L	1.57	47.9
57117-31-4	2,3,4,7,8-PeCDF	U	1.6		pg/L	1.60	47.9
70648-26-9	1,2,3,4,7,8-HxCDF	U	.947		pg/L	0.947	47.9
57117-44-9	1,2,3,6,7,8-HxCDF	U	.813		pg/L	0.813	47.9
60851-34-5	2,3,4,6,7,8-HxCDF	U	.901		pg/L	0.901	47.9
72918-21-9	1,2,3,7,8,9-HxCDF	U	1.09		pg/L	1.09	47.9
67562-39-4	1,2,3,4,6,7,8-HpCDF	U	.912		pg/L	0.912	47.9
55673-89-7	1,2,3,4,7,8,9-HpCDF	U	1.25		pg/L	1.25	47.9
39001-02-0	1,2,3,4,6,7,8,9-OCDF	U	2.01		pg/L	2.01	95.8
41903-57-5	Total Tetrachlorodibenzo-p-dioxin	U	2.18		pg/L	2.18	9.58
36088-22-9	Total Pentachlorodibenzo-p-dioxin	U	1.17		pg/L	1.17	47.9
34465-46-8	Total Hexachlorodibenzo-p-dioxin	U	1.11		pg/L	1.11	47.9
37871-00-4	Total Heptachlorodibenzo-p-dioxin	U	1.54		pg/L	1.54	47.9
30402-14-3	Total Tetrachlorodibenzofuran	U	1.31		pg/L	1.31	9.58
30402-15-4	Total Pentachlorodibenzofuran	U	1.57		pg/L	1.57	47.9
55684-94-1	Total Hexachlorodibenzofuran	U	.813		pg/L	0.813	47.9
38998-75-3	Total Heptachlorodibenzofuran	U	.912		pg/L	0.912	47.9
3333-30-0	TEQ WHO2005 ND=0		0.00	0.00118	pg/L		
3333-30-1	TEQ WHO2005 ND=0.5		2.39	2.39	pg/L		

Surrogate/Tracer recovery	Qual	Result	Nominal	Units	Recovery%	Acceptable Limits
13C-2,3,7,8-TCDD		1410	1920	pg/L	73.4	(40%-135%)
13C-1,2,3,7,8-PeCDD		1420	1920	pg/L	74.0	(40%-135%)
13C-1,2,3,6,7,8-HxCDD		1370	1920	pg/L	71.4	(40%-135%)
13C-1,2,3,4,6,7,8-HpCDD		1840	1920	pg/L	96.1	(40%-135%)
13C-OCDD		3550	3830	pg/L	92.5	(40%-135%)
13C-2,3,7,8-TCDF		1440	1920	pg/L	75.2	(40%-135%)
13C-1,2,3,7,8-PeCDF		1210	1920	pg/L	63.1	(40%-135%)
13C-1,2,3,6,7,8-HxCDF		1140	1920	pg/L	59.6	(40%-135%)
13C-1,2,3,4,6,7,8-HpCDF		1320	1920	pg/L	68.7	(40%-135%)

Comments:

J Value is estimated

K Estimated Maximum Possible Concentration

U Analyte was analyzed for , but not detected above the specified detection limit.

Quantify Sample Summary Report **MassLynx 4.1**
Method 8290 Quantification Report

Dataset: C:\MassLynx\Default.pro\Sample Results\8290-b10oct11a_2.qld

Last Altered: Tuesday, October 11, 2011 14:05:35 Eastern Standard Time
Printed: Tuesday, October 11, 2011 14:06:14 Eastern Standard Time

HMP
11 Oct 11

Method: C:\MassLynx\Default.pro\Methdb\CFA_EPA8290_101011.mdb 10 Oct 2011 14:05:54
Calibration: C:\MassLynx\Default.pro\Curvedb\8290-b01nov10b.cdb 02 Nov 2010 08:19:01

Name: b10oct11a_2-7, Date: 11-Oct-2011, Time: 05:04:45, ID: 2818004-1, Description: 19685, Job: HMS8290_1L, Task: HRP763_1, User: MJC

	Name	Ion1Area	Ion2Area	Response	RT	RRT	RA	Fail?	pg/uL	EDL	Height1	Noise1	S/N1	Height2	Noise2	S/N2	M
1	2378-TCDD							NO		0.114		812			857		
2	12378-PeCDD							NO		0.0612		1026			667		
3	123478-HxCDD							NO		0.0627		758			812		
4	123678-HxCDD							NO		0.0581		758			812		
5	123789-HxCDD							NO		0.0649		758			812		
6	1234678-HpCDD	5.25e1	1.00e2	1.52e2	36.82	1.001	0.53	YES	0.047	0.0805	2.29e3	789	2.9	3.42e3	884	3.9	bb
7	OCDD	2.94e2	2.35e2	5.29e2	39.89	1.001	1.25	YES	0.205	0.130	4.76e3	824	5.8	3.49e3	784	4.5	MM
8	2378-TCDF							NO		0.0681		723			832		
9	12378-PeCDF							NO		0.0819		674			1158		
10	23478-PeCDF							NO		0.0837		674			1158		
11	123478-HxCDF							NO		0.0494		759			791		
12	123678-HxCDF							NO		0.0424		759			791		
13	234678-HxCDF							NO		0.0470		759			791		
14	123789-HxCDF							NO		0.0567		759			791		
15	1234678-HpCDF							NO		0.0476		660			623		
16	1234789-HpCDF							NO		0.0653		660			623		
17	OCDF							NO		0.105		691			908		
18	13C-2378-TCDD	1.64e5	2.06e5	3.70e5	26.55	1.027	0.80	NO	73.397	0.241	1.60e6	3118	514.2	1.98e6	1611	1228.9	bb
19	13C-12378-PeCDD	1.93e5	1.23e5	3.16e5	32.06	1.240	1.57	NO	73.954	0.138	4.10e6	873	4694.3	2.59e6	1424	1821.3	bb
20	13C-123678-HxCDD	1.84e5	1.49e5	3.33e5	34.27	0.995	1.23	NO	71.411	0.114	3.86e6	2148	1795.7	3.08e6	2091	1474.1	bb
21	13C-1234678-HpCDD	1.67e5	1.56e5	3.23e5	36.78	1.068	1.07	NO	96.132	0.174	2.68e6	2432	1101.2	2.56e6	2208	1157.3	bd
22	13C-OCDD	2.46e5	2.72e5	5.18e5	39.87	1.157	0.90	NO	185.011	0.180	2.94e6	1822	1615.1	3.19e6	2200	1451.2	bb
23	13C-2378-TCDF	2.74e5	3.42e5	6.16e5	25.65	0.992	0.80	NO	75.180	0.117	2.58e6	1770	1457.8	3.29e6	1985	1655.2	bd
24	13C-12378-PeCDF	2.92e5	1.88e5	4.81e5	31.02	1.200	1.55	NO	63.053	0.173	3.64e6	2650	1373.6	2.35e6	2494	943.3	bd
25	13C-123678-HxCDF	1.41e5	2.67e5	4.07e5	33.69	0.978	0.53	NO	59.583	0.146	2.98e6	4269	698.9	5.76e6	3679	1566.6	bb
26	13C-1234678-HpCDF	9.84e4	2.13e5	3.11e5	35.83	1.040	0.46	NO	68.652	0.0843	1.67e6	1461	1144.1	3.66e6	1581	2317.8	bd
27	13C-1234-TCDD	2.01e5	2.49e5	4.50e5	25.86	0.000	0.81	NO	100.000	0.269	1.96e6	3118	629.4	2.45e6	1611	1518.3	bb
28	13C-123789-HxCDD	2.33e5	1.87e5	4.19e5	34.45	0.000	1.24	NO	100.000	0.127	4.63e6	2148	2155.3	3.69e6	2091	1767.0	bb
29	37Cl-2378-TCDD (SS)									0.0494		752					
30	13C-23478-PeCDF (SS)	1.03e3	5.87e2	1.62e3	31.85	1.027	1.76	NO	0.361	0.230	2.03e4	2650	7.7	9.07e3	2494	3.6	bb

Quantify Totals Report MassLynx 4.1
Method 8290 Quantification Report

Dataset: C:\MassLynx\Default.pro\Sample Results\8290-b10oct11a_2.qld

Last Altered: Tuesday, October 11, 2011 14:05:35 Eastern Standard Time
Printed: Tuesday, October 11, 2011 14:06:14 Eastern Standard Time

Method: C:\MassLynx\Default.pro\Methdb\CFA_EPA8290_101011.mdb 10 Oct 2011 14:05:54
Calibration: C:\MassLynx\Default.pro\Curvedb\8290-b01nov10b.cdb 02 Nov 2010 08:19:01

Name: b10oct11a_2-7, Date: 11-Oct-2011, Time: 05:04:45, ID: 2818004-1, Description: 19685, Job: HMS8290_1L, Task: HRP763_1, User: MJC

TD

	Name	Ion1Area	Ion2Area	Response	RT	RA	Fail?	pg/uL	EDL	Height1	Noise1	S/N1	Height2	Noise2	S/N2	M
1	Total-tetradioxins	1.47e2	8.64e1	2.33e2	25.67	1.70	YES	0.062	0.114	3.38e3	812	4.2	1.99e3	857	2.3	db

PD

	Name	Ion1Area	Ion2Area	Response	RT	RA	Fail?	pg/uL	EDL	Height1	Noise1	S/N1	Height2	Noise2	S/N2	M
1																

HD

	Name	Ion1Area	Ion2Area	Response	RT	RA	Fail?	pg/uL	EDL	Height1	Noise1	S/N1	Height2	Noise2	S/N2	M
1	Total-hexadioxins	1.49e2	1.23e2	2.72e2	33.68	1.22	NO	0.090	0.0617	4.70e3	758	6.2	3.17e3	812	3.9	bd

HPD

	Name	Ion1Area	Ion2Area	Response	RT	RA	Fail?	pg/uL	EDL	Height1	Noise1	S/N1	Height2	Noise2	S/N2	M
1	1234678-HpCDD	5.25e1	1.00e2	1.52e2	36.82	0.53	YES	0.047	0.0805	2.29e3	789	2.9	3.42e3	884	3.9	bb

TF

	Name	Ion1Area	Ion2Area	Response	RT	RA	Fail?	pg/uL	EDL	Height1	Noise1	S/N1	Height2	Noise2	S/N2	M
1	Total-tetrafurans	9.87e1	5.70e1	1.56e2	25.86	1.73	YES	0.026	0.0681	4.28e3	723	5.9	1.32e3	832	1.6	bb

PF1

	Name	Ion1Area	Ion2Area	Response	RT	RA	Fail?	pg/uL	EDL	Height1	Noise1	S/N1	Height2	Noise2	S/N2	M
1	Total-pentafurans (F1)	5.70e1	1.12e2	1.69e2	26.62	0.51	YES	0.038	0.0838	9.98e2	718	1.4	1.88e3	1136	1.7	bb
2	Total-pentafurans (F1)	8.97e1	7.33e1	1.63e2	25.84	1.22	YES	0.037	0.0838	1.15e3	718	1.6	1.76e3	1136	1.6	bb

Quantify Totals Report MassLynx 4.1
Method 8290 Quantification Report

Dataset: C:\MassLynx\Default.pro\Sample Results\8290-b10oct11a_2.qld

Last Altered: Tuesday, October 11, 2011 14:05:35 Eastern Standard Time
Printed: Tuesday, October 11, 2011 14:06:14 Eastern Standard Time

Name: b10oct11a_2-7, Date: 11-Oct-2011, Time: 05:04:45, ID: 2818004-1, Description: 19685, Job: HMS8290_1L, Task: HRP763_1, User: MJC

	Name	Ion1Area	Ion2Area	Response	RT	RA	Fail?	pg/uL	EDL	Height1	Noise1	S/N1	Height2	Noise2	S/N2	M
1																

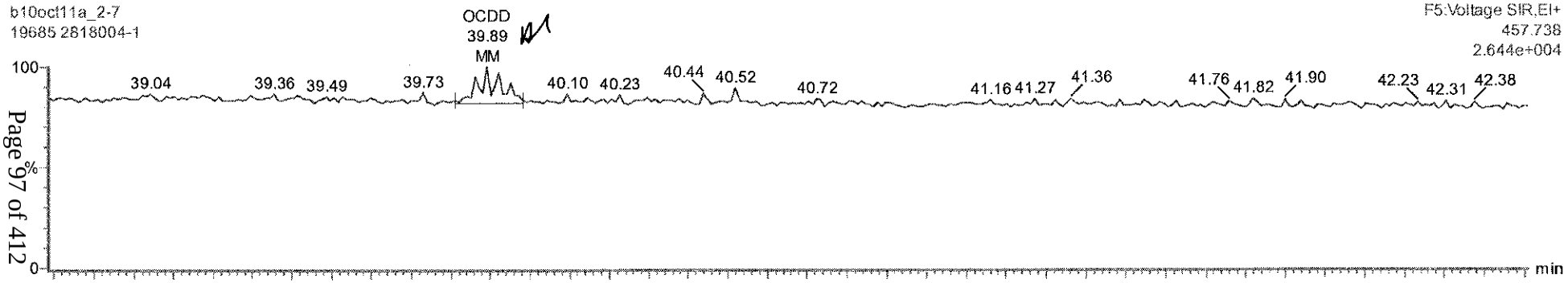
HF

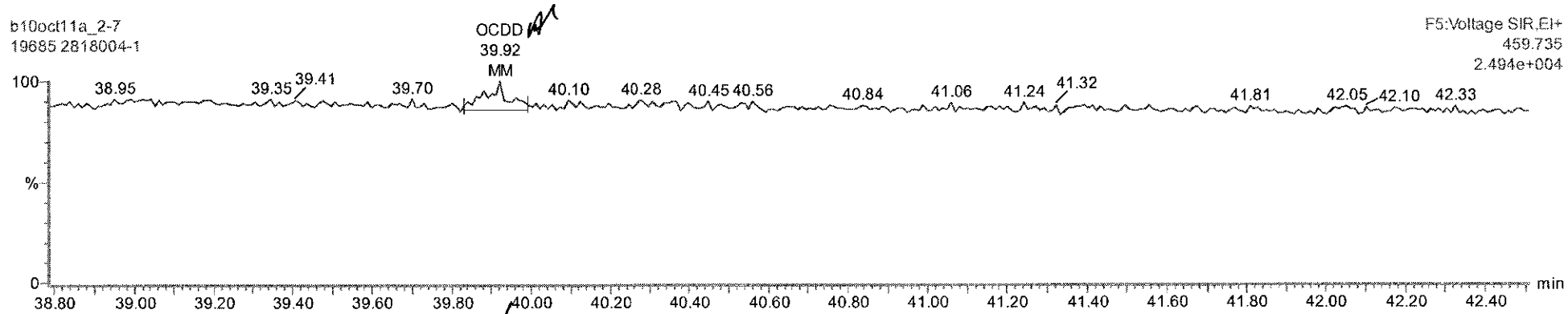
	Name	Ion1Area	Ion2Area	Response	RT	RA	Fail?	pg/uL	EDL	Height1	Noise1	S/N1	Height2	Noise2	S/N2	M
1																

HPF

	Name	Ion1Area	Ion2Area	Response	RT	RA	Fail?	pg/uL	EDL	Height1	Noise1	S/N1	Height2	Noise2	S/N2	M
1																

MANUAL INTEGRATION





10/11/11

IMP 11Oct11

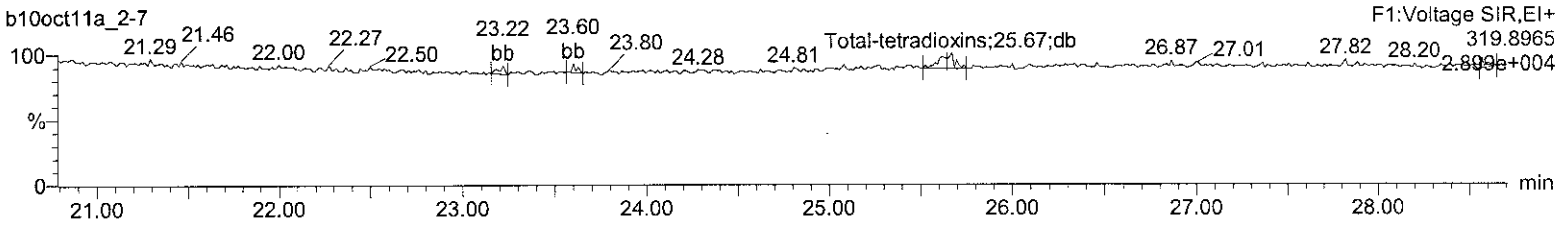
Quantify Sample Report **MassLynx 4.1**
Method 8290 Quantification Report

Dataset: C:\MassLynx\Default.pro\Sample Results\8290-b10oct11a_2.qld

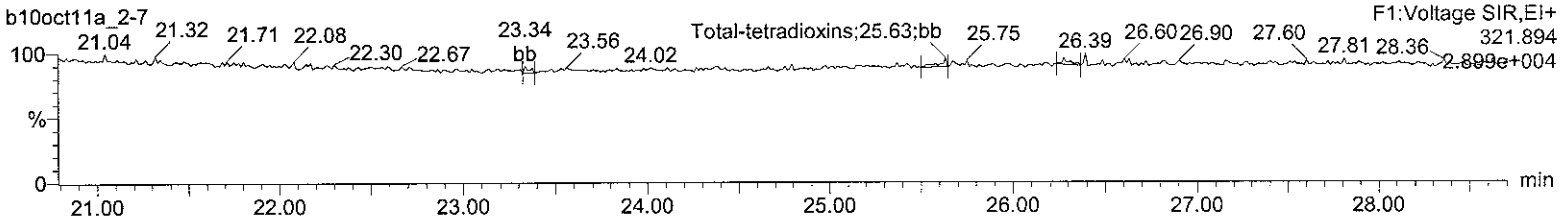
Last Altered: Tuesday, October 11, 2011 13:39:25 Eastern Standard Time
Printed: Tuesday, October 11, 2011 13:40:15 Eastern Standard Time

Name: b10oct11a_2-7, Date: 11-Oct-2011, Time: 05:04:45, ID: 2818004-1, Description: 19685, Job: HMS8290_1L, Task: HRP763_1, User: MJC

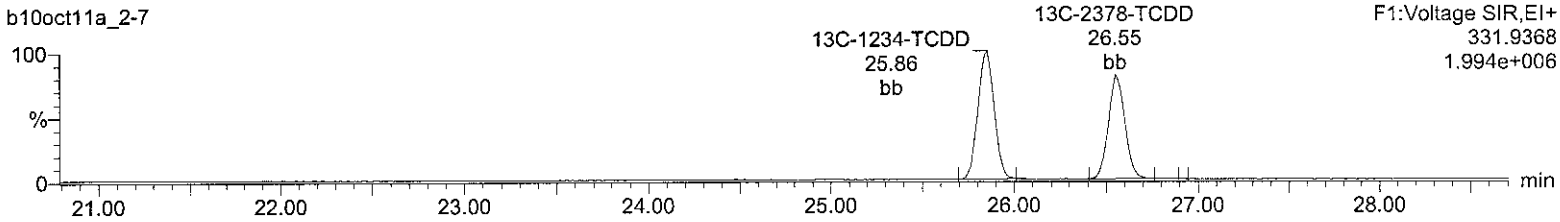
Total-tetradioxins



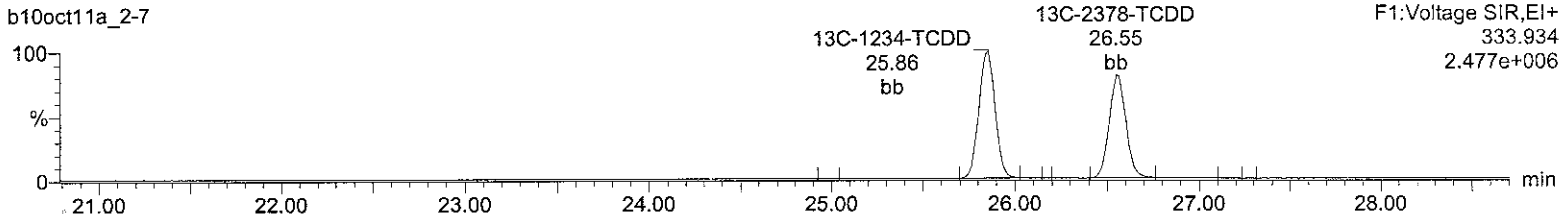
Total-tetradioxins



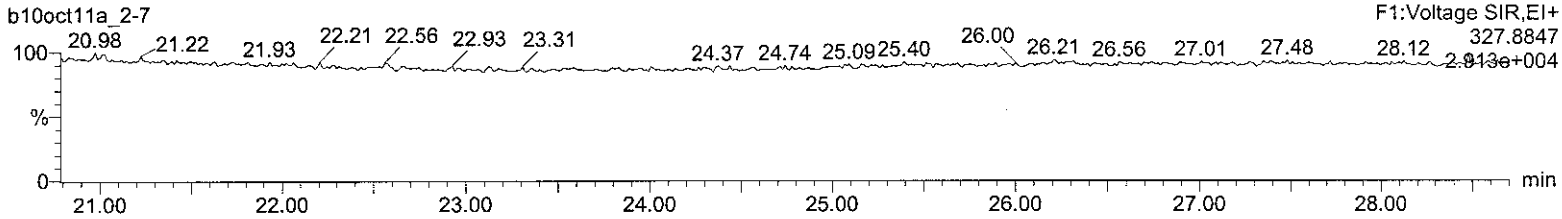
13C-2378-TCDD



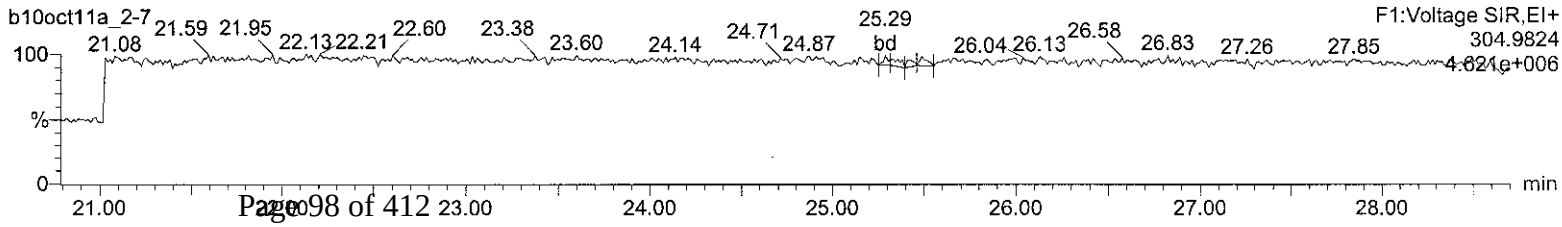
13C-2378-TCDD



37Cl-2378-TCDD (SS)



Lock Mass F1



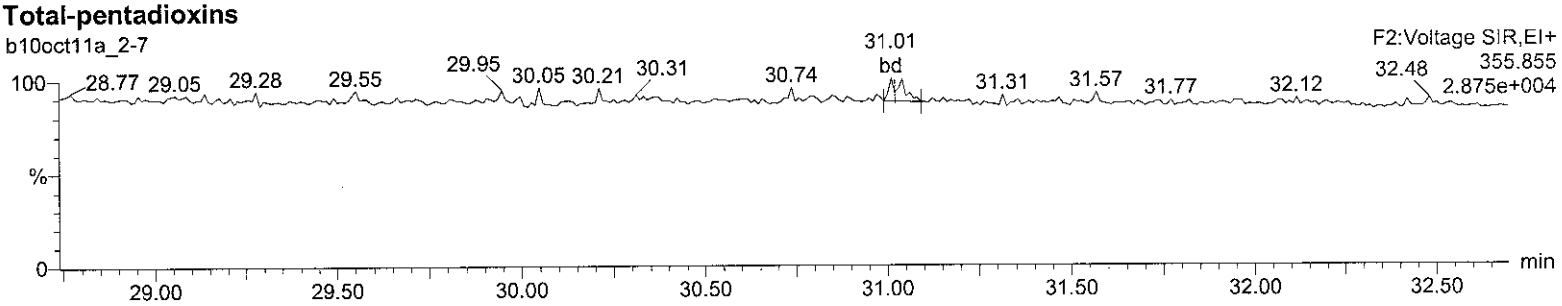
Quantify Sample Report **MassLynx 4.1**
Method 8290 Quantification Report

Dataset: C:\MassLynx\Default.pro\Sample Results\8290-b10oct11a_2.qld

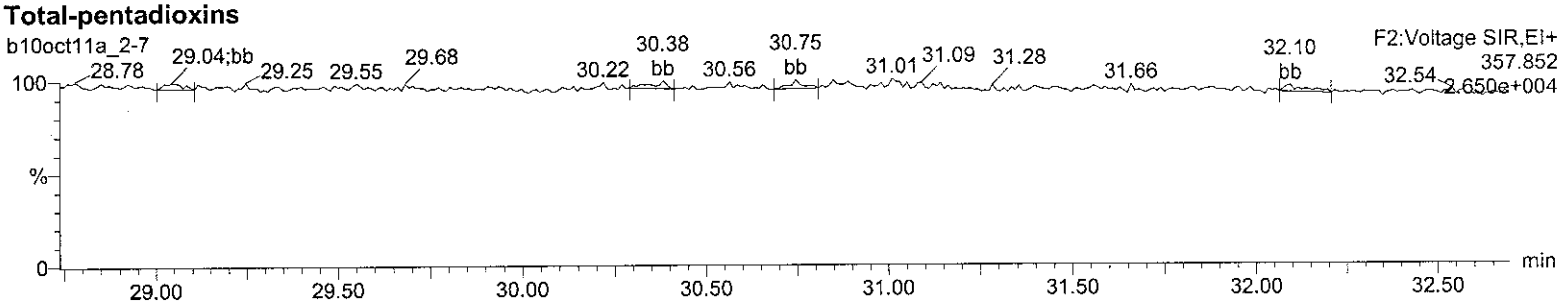
Last Altered: Tuesday, October 11, 2011 13:39:25 Eastern Standard Time
Printed: Tuesday, October 11, 2011 13:40:15 Eastern Standard Time

Name: b10oct11a_2-7, Date: 11-Oct-2011, Time: 05:04:45, ID: 2818004-1, Description: 19685, Job: HMS8290_1L, Task: HRP763_1, User: MJC

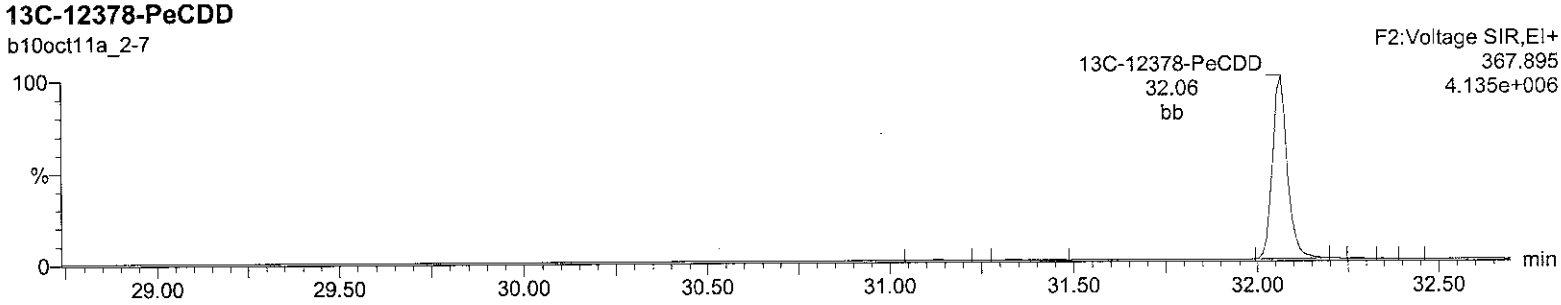
Total-pentadioxins



Total-pentadioxins



13C-12378-PeCDD



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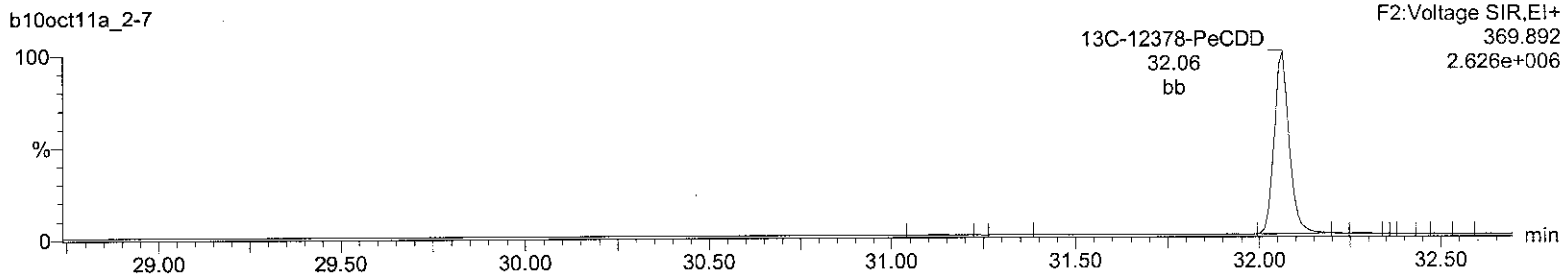
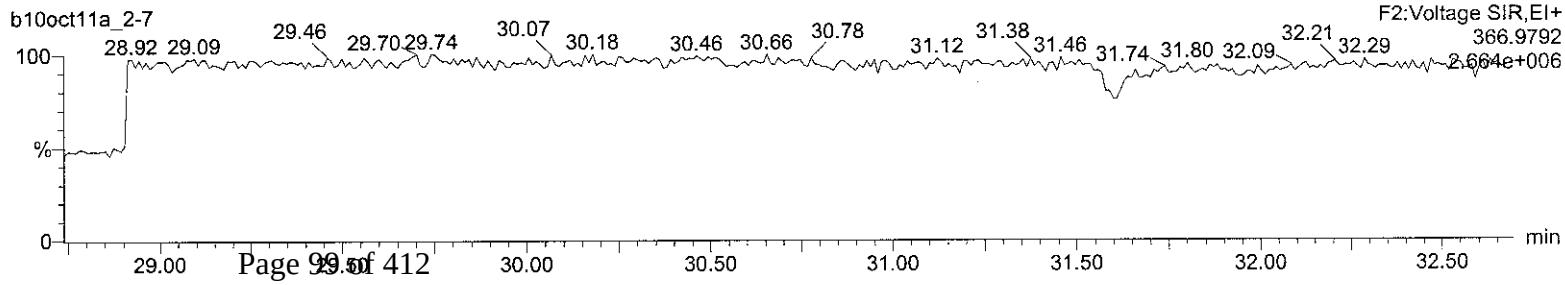


Lock Mass F2



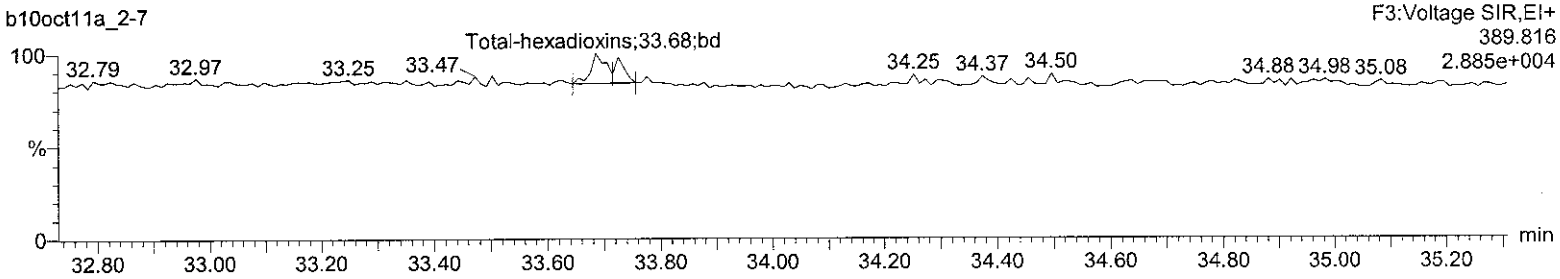
Quantify Sample Report **MassLynx 4.1**
Method 8290 Quantification Report

Dataset: C:\MassLynx\Default.pro\Sample Results\8290-b10oct11a_2.qld

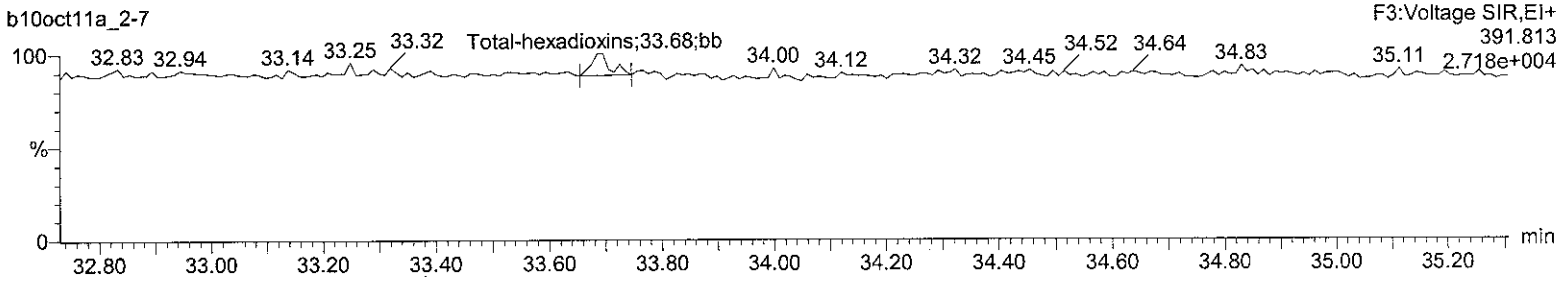
Last Altered: Tuesday, October 11, 2011 13:39:25 Eastern Standard Time
Printed: Tuesday, October 11, 2011 13:40:15 Eastern Standard Time

Name: b10oct11a_2-7, Date: 11-Oct-2011, Time: 05:04:45, ID: 2818004-1, Description: 19685, Job: HMS8290_1L, Task: HRP763_1, User: MJC

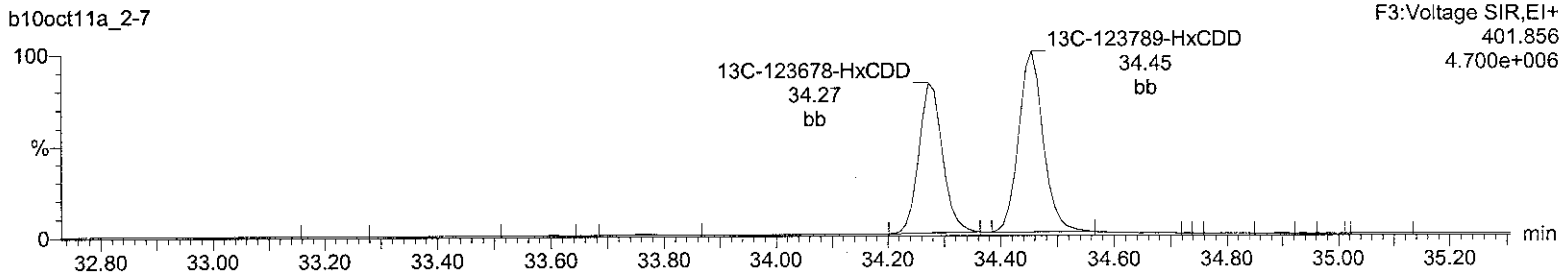
Total-hexadioxins



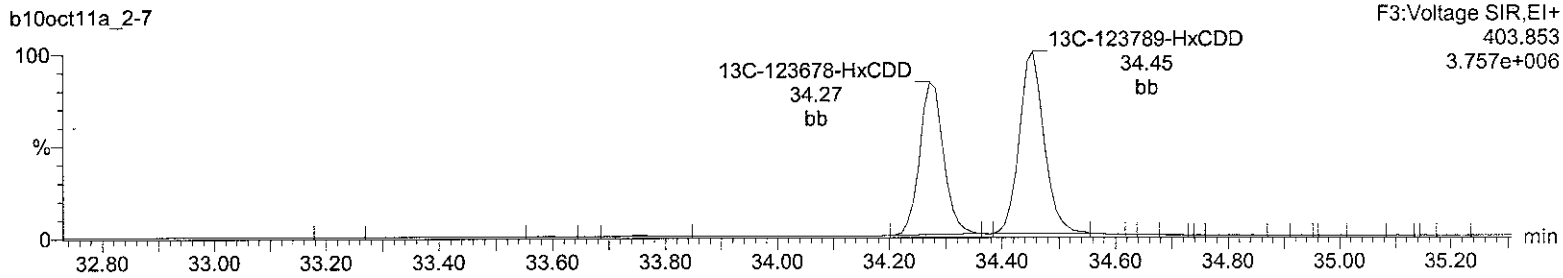
Total-hexadioxins



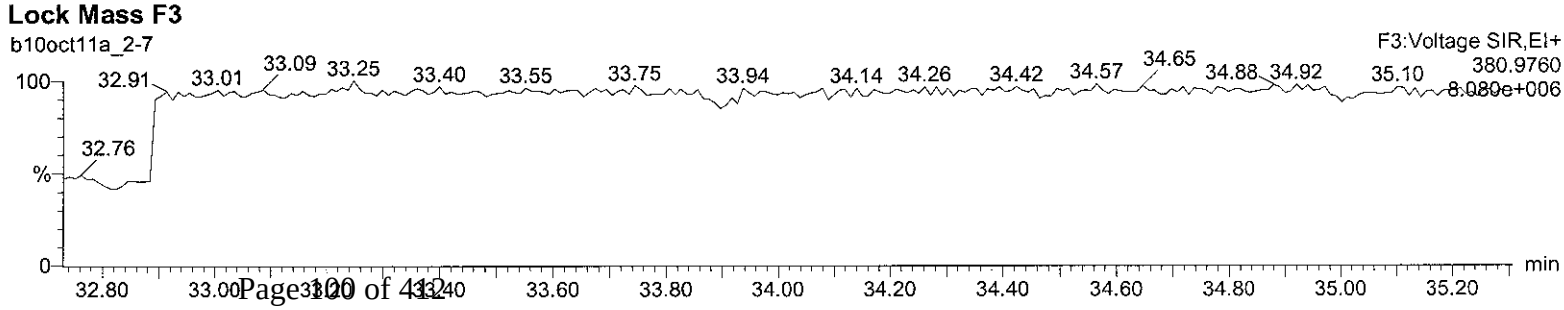
13C-123678-HxCDD



13C-123678-HxCDD



Lock Mass F3



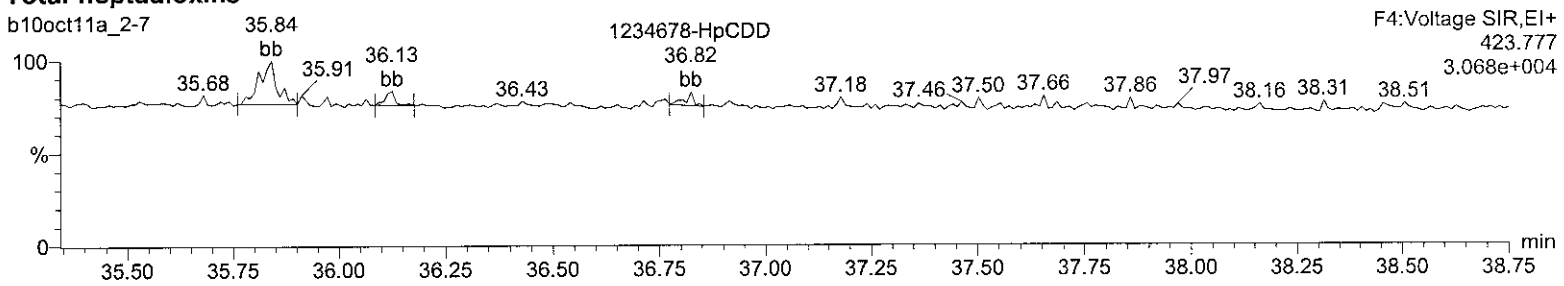
Quantify Sample Report **MassLynx 4.1**
Method 8290 Quantification Report

Dataset: C:\MassLynx\Default.pro\Sample Results\8290-b10oct11a_2.qld

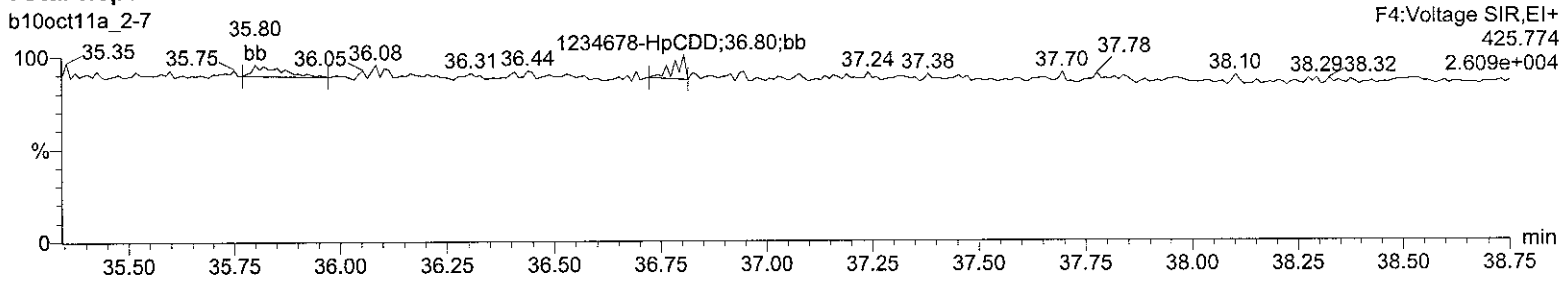
Last Altered: Tuesday, October 11, 2011 13:39:25 Eastern Standard Time
Printed: Tuesday, October 11, 2011 13:40:15 Eastern Standard Time

Name: b10oct11a_2-7, Date: 11-Oct-2011, Time: 05:04:45, ID: 2818004-1, Description: 19685, Job: HMS8290_1L, Task: HRP763_1, User: MJC

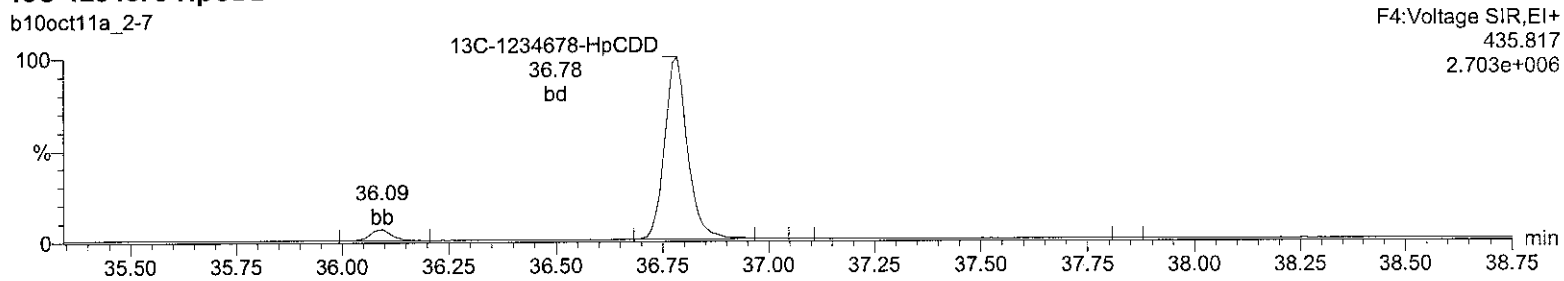
Total-heptadioxins



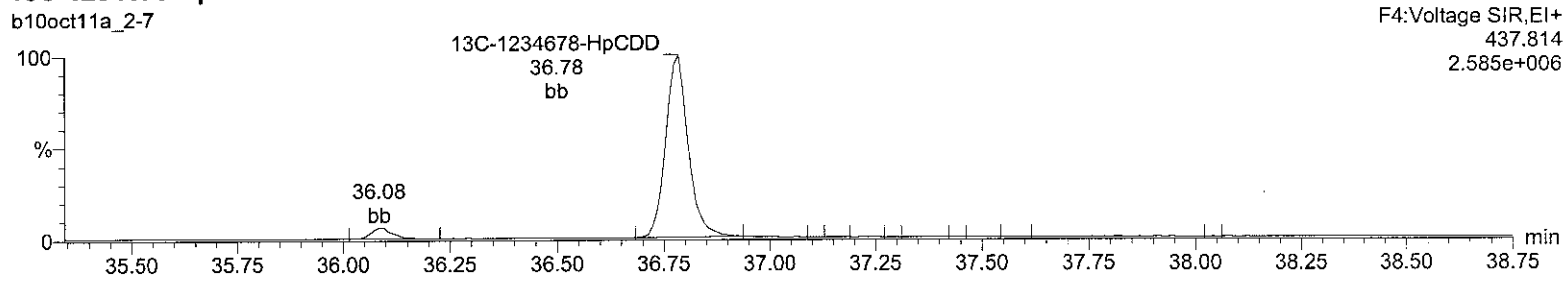
Total-heptadioxins



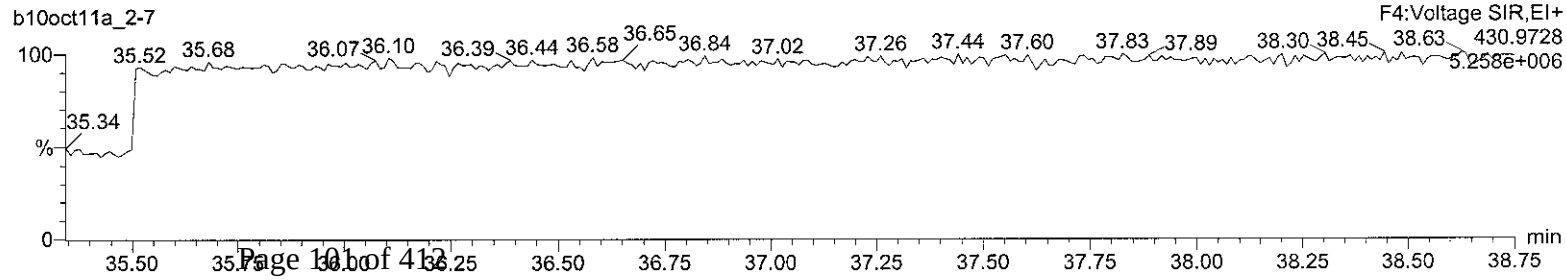
13C-1234678-HpCDD



13C-1234678-HpCDD



Lock Mass F4



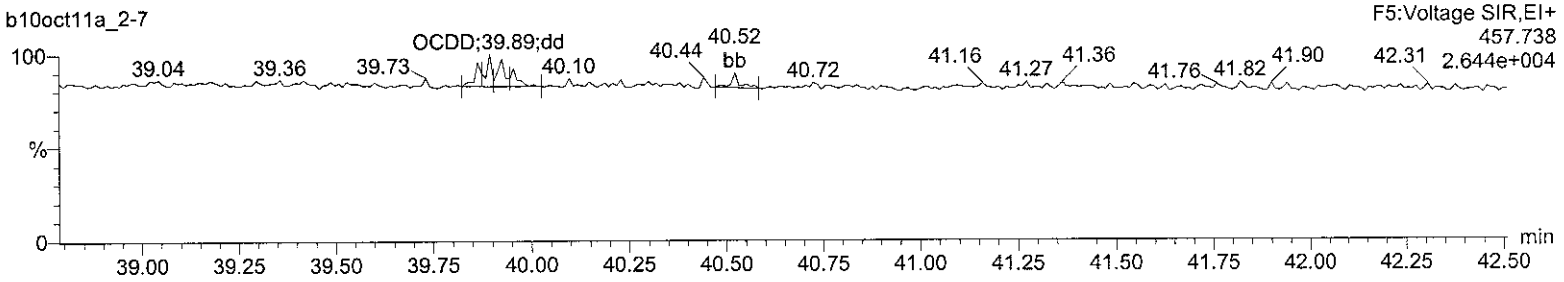
Quantify Sample Report **MassLynx 4.1**
Method 8290 Quantification Report

Dataset: C:\MassLynx\Default.pro\Sample Results\8290-b10oct11a_2.qld

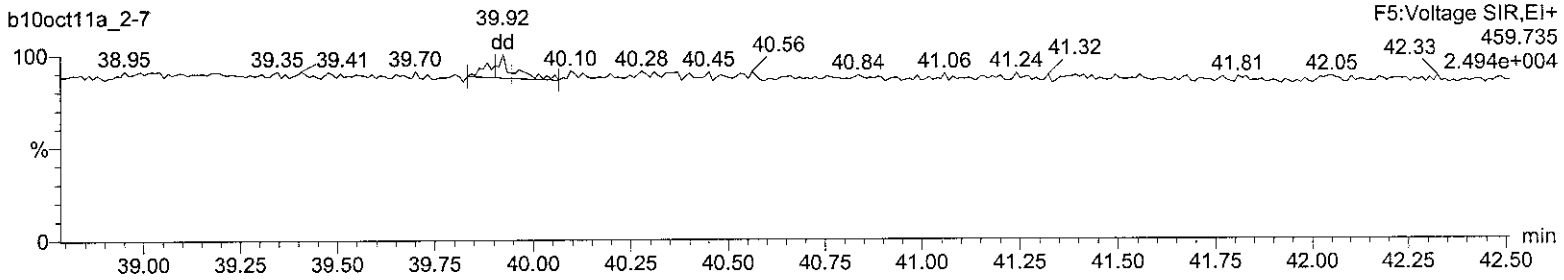
Last Altered: Tuesday, October 11, 2011 13:39:25 Eastern Standard Time
Printed: Tuesday, October 11, 2011 13:40:15 Eastern Standard Time

Name: b10oct11a_2-7, Date: 11-Oct-2011, Time: 05:04:45, ID: 2818004-1, Description: 19685, Job: HMS8290_1L, Task: HRP763_1, User: MJC

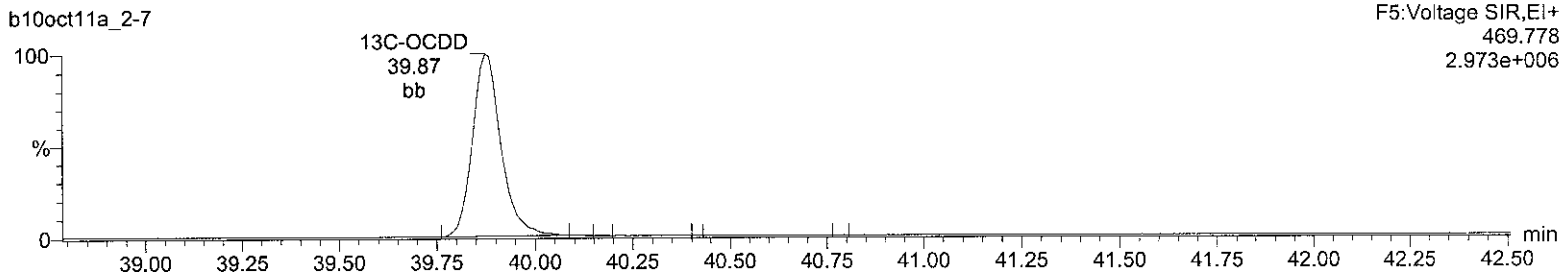
OCDD



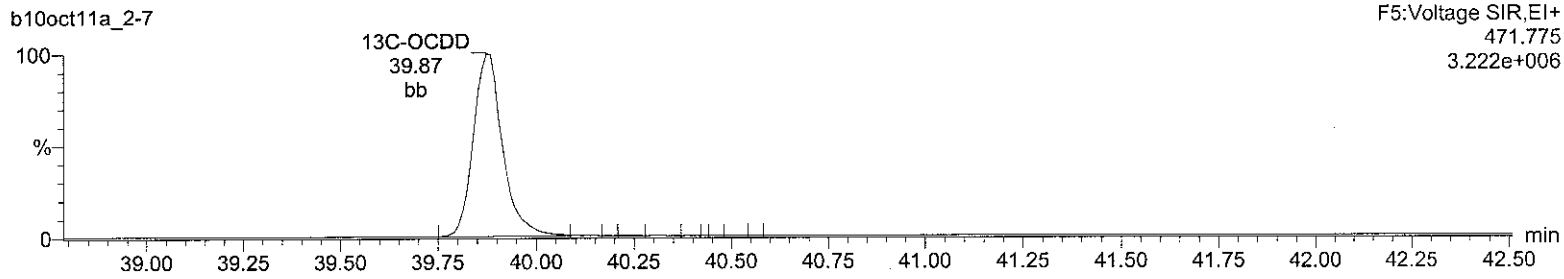
OCDD



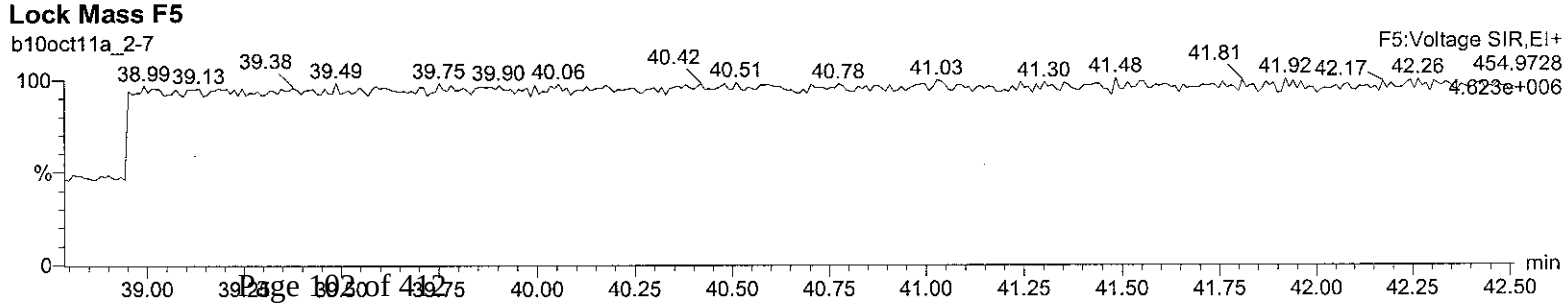
13C-OCDD



13C-OCDD



Lock Mass F5



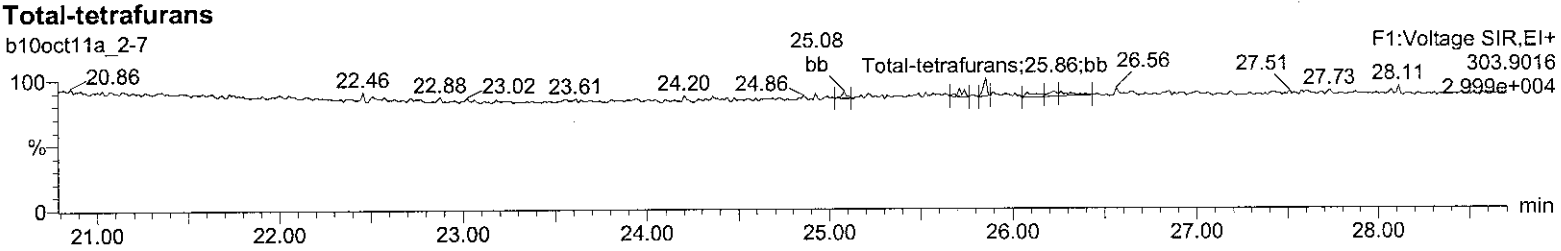
Quantify Sample Report **MassLynx 4.1**
Method 8290 Quantification Report

Dataset: C:\MassLynx\Default.pro\Sample Results\8290-b10oct11a_2.qld

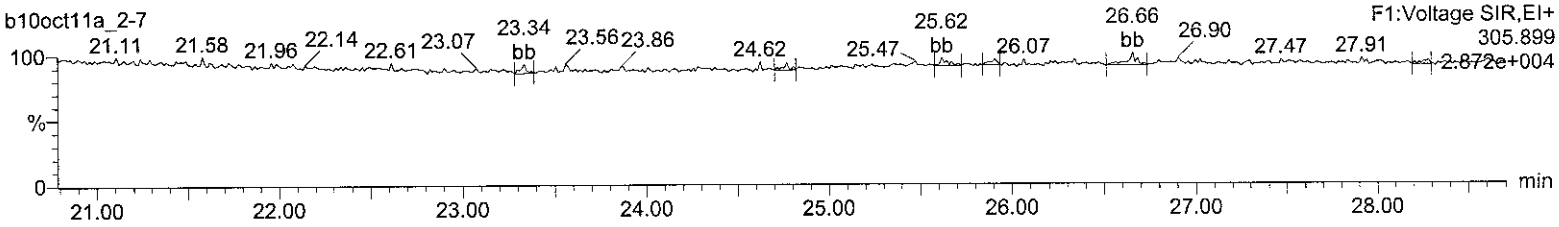
Last Altered: Tuesday, October 11, 2011 13:39:25 Eastern Standard Time
Printed: Tuesday, October 11, 2011 13:40:15 Eastern Standard Time

Name: b10oct11a_2-7, Date: 11-Oct-2011, Time: 05:04:45, ID: 2818004-1, Description: 19685, Job: HMS8290_1L, Task: HRP763_1, User: MJC

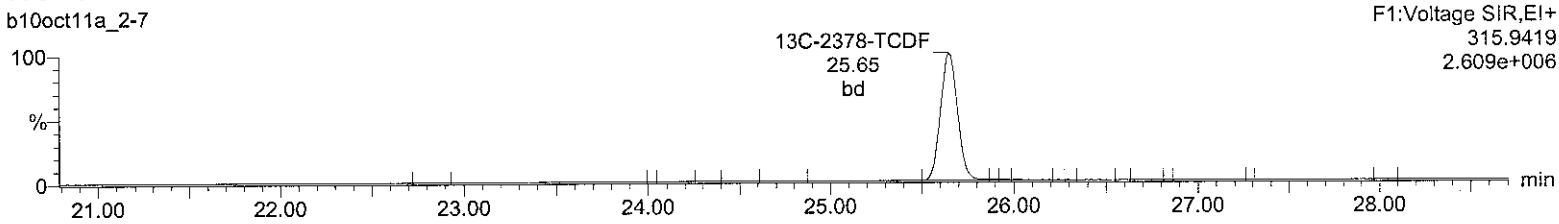
Total-tetrafurans



Total-tetrafurans



13C-2378-TCDF



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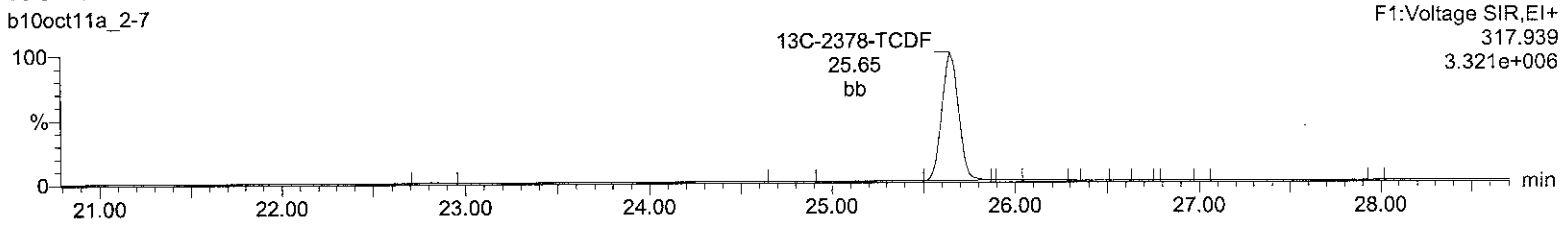
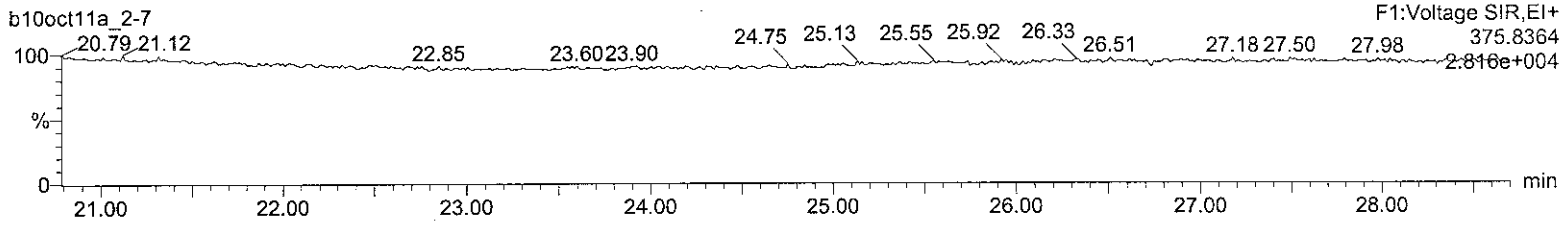
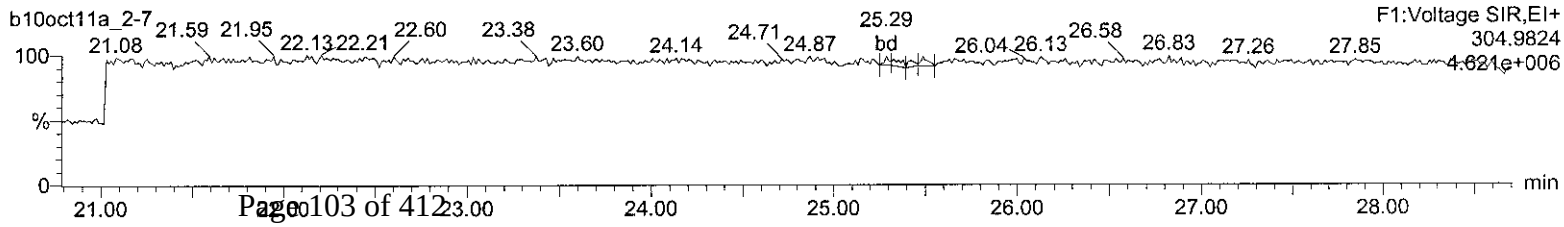


HxDPE



Lock Mass F1



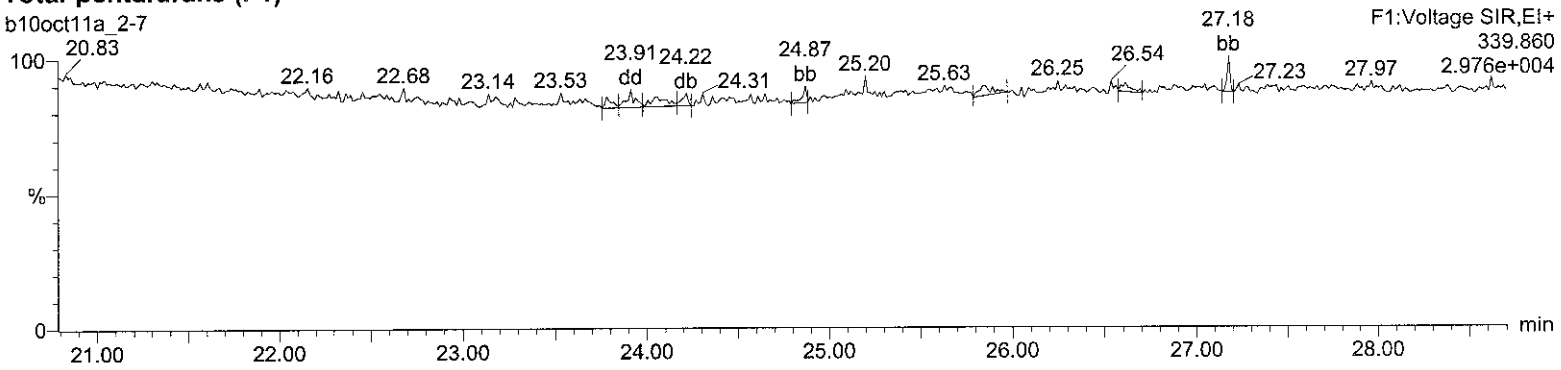
Quantify Sample Report **MassLynx 4.1**
Method 8290 Quantification Report

Dataset: C:\MassLynx\Default.pro\Sample Results\8290-b10oct11a_2.qld

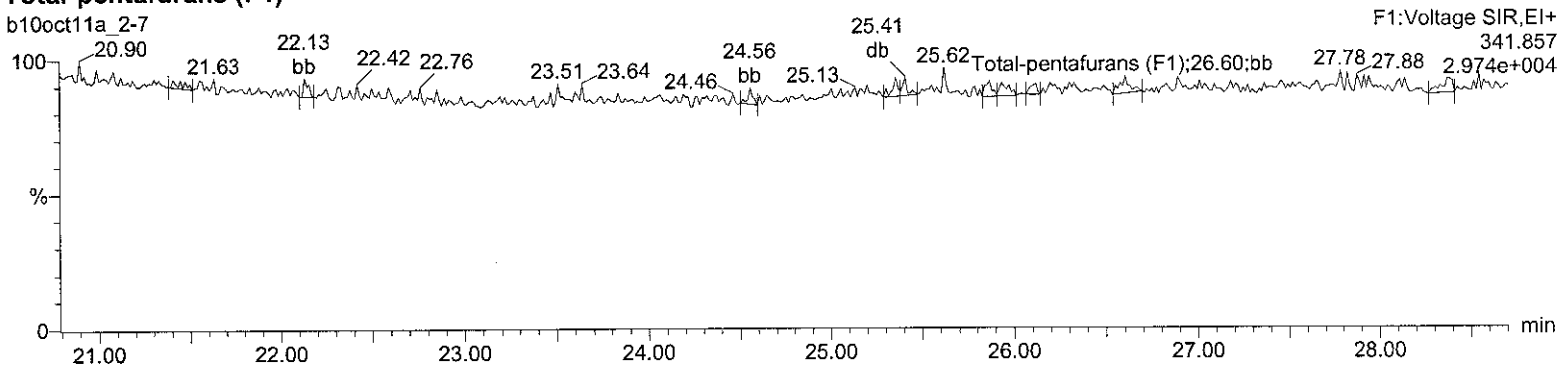
Last Altered: Tuesday, October 11, 2011 13:39:25 Eastern Standard Time
Printed: Tuesday, October 11, 2011 13:40:15 Eastern Standard Time

Name: b10oct11a_2-7, Date: 11-Oct-2011, Time: 05:04:45, ID: 2818004-1, Description: 19685, Job: HMS8290_1L, Task: HRP763_1, User: MJC

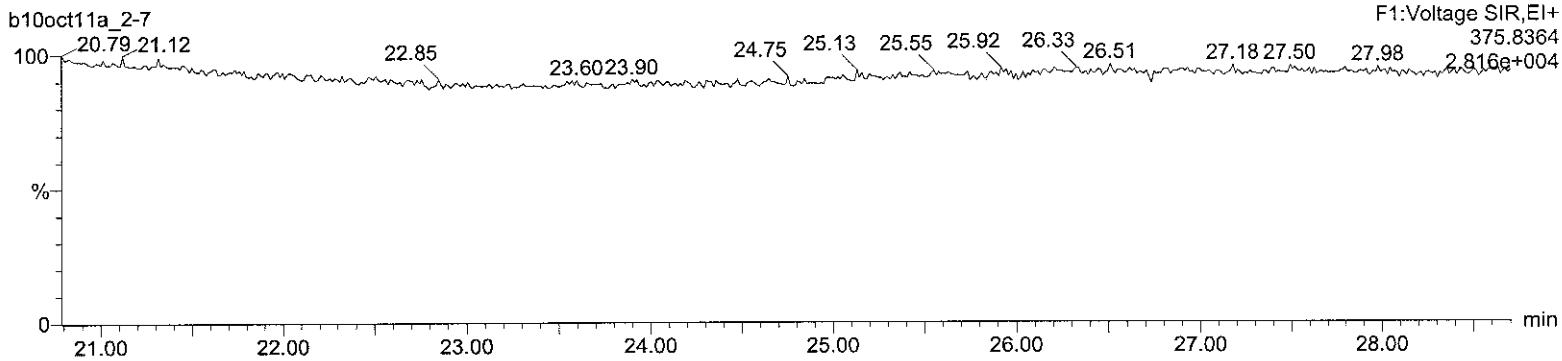
Total-pentafurans (F1)



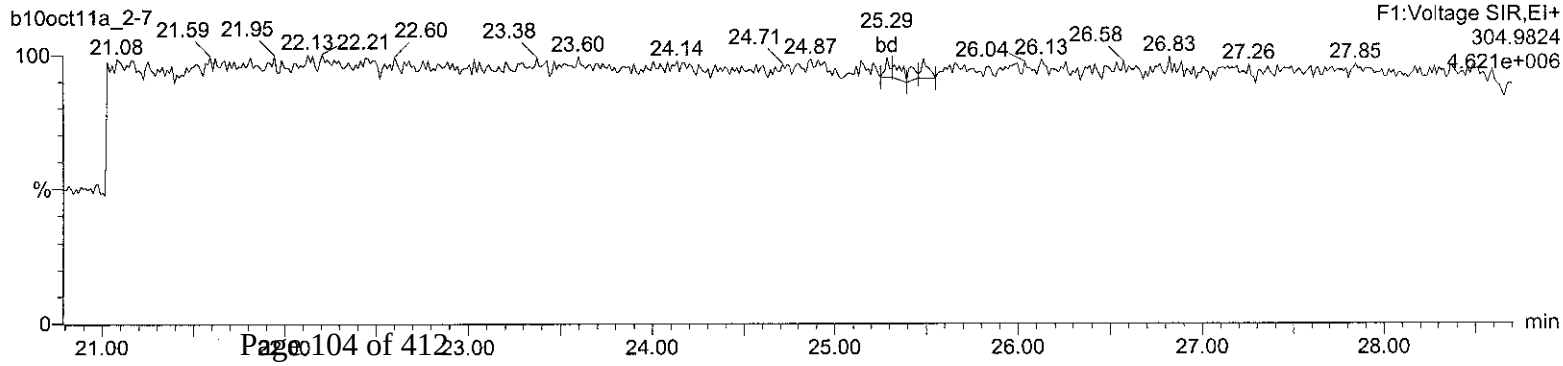
Total-pentafurans (F1)



HxDPE



Lock Mass F1



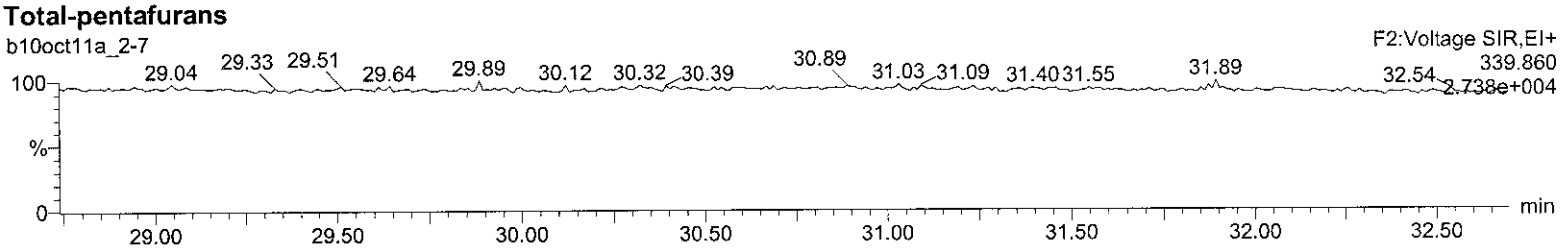
Quantify Sample Report **MassLynx 4.1**
Method 8290 Quantification Report

Dataset: C:\MassLynx\Default.pro\Sample Results\8290-b10oct11a_2.qld

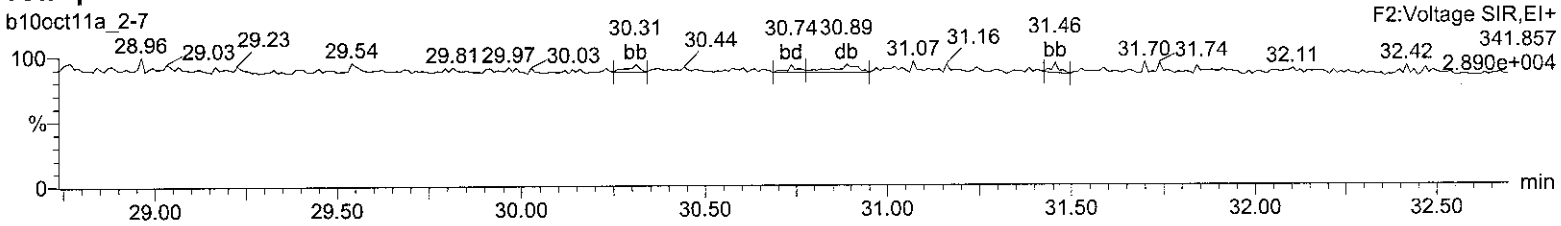
Last Altered: Tuesday, October 11, 2011 13:39:25 Eastern Standard Time
Printed: Tuesday, October 11, 2011 13:40:15 Eastern Standard Time

Name: b10oct11a_2-7, Date: 11-Oct-2011, Time: 05:04:45, ID: 2818004-1, Description: 19685, Job: HMS8290_1L, Task: HRP763_1, User: MJC

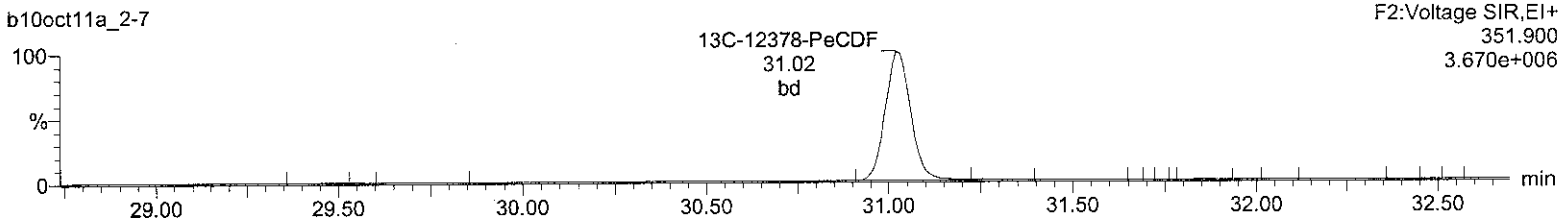
Total-pentafurans



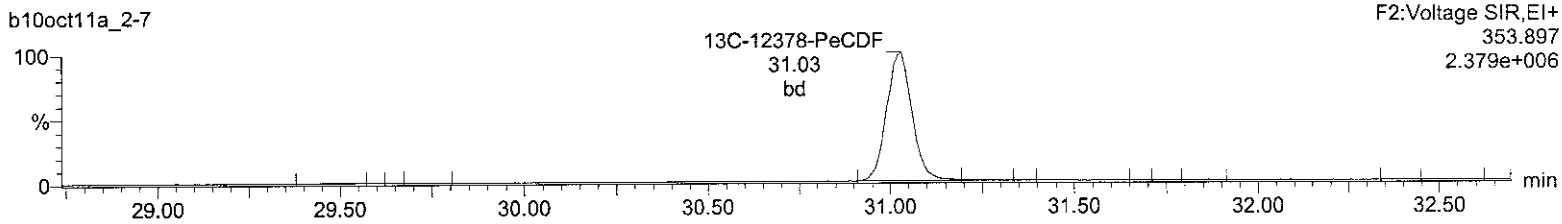
Total-pentafurans



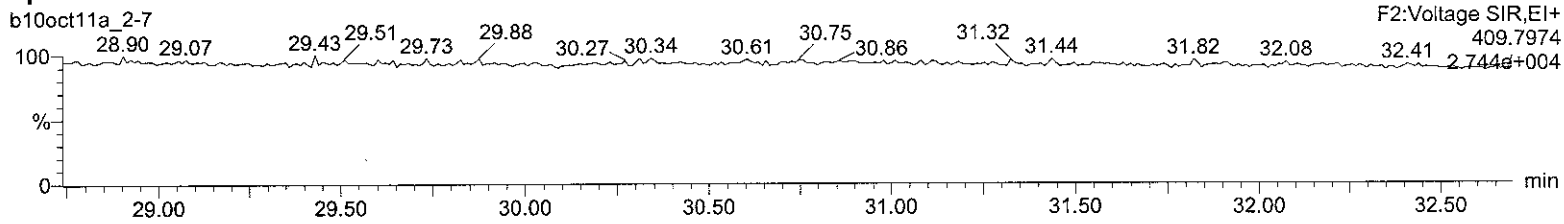
13C-12378-PeCDF



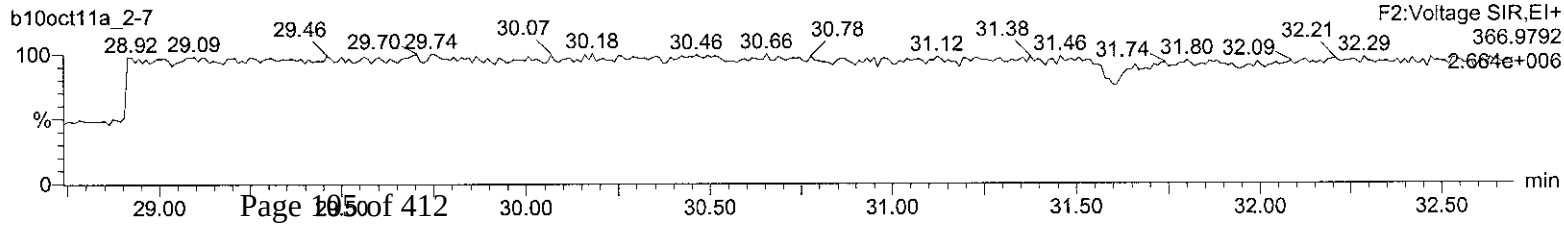
13C-12378-PeCDF



HpDPE



Lock Mass F2



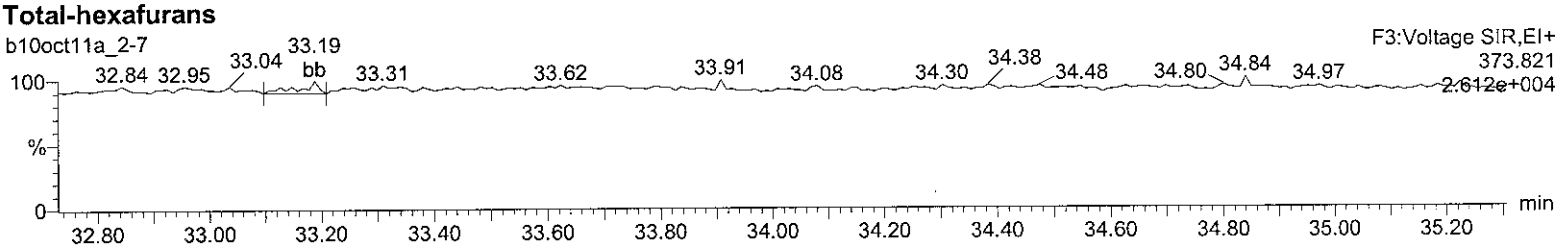
Quantify Sample Report **MassLynx 4.1**
Method 8290 Quantification Report

Dataset: C:\MassLynx\Default.pro\Sample Results\8290-b10oct11a_2.qld

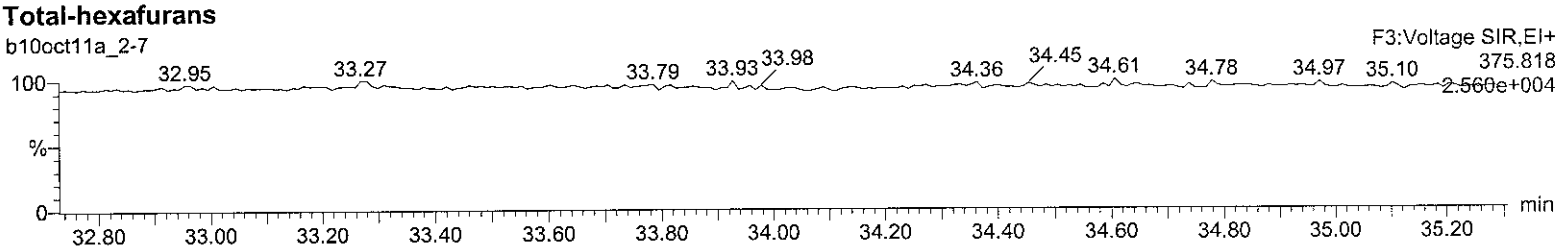
Last Altered: Tuesday, October 11, 2011 13:39:25 Eastern Standard Time
Printed: Tuesday, October 11, 2011 13:40:15 Eastern Standard Time

Name: b10oct11a_2-7, Date: 11-Oct-2011, Time: 05:04:45, ID: 2818004-1, Description: 19685, Job: HMS8290_1L, Task: HRP763_1, User: MJC

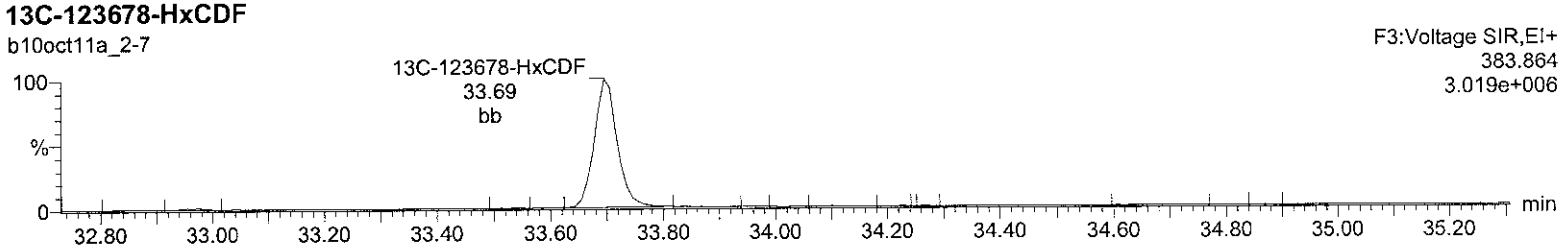
Total-hexafurans



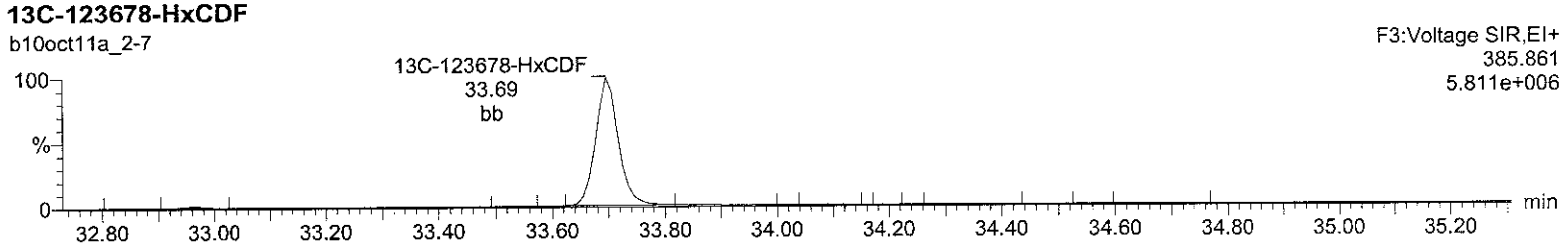
Total-hexafurans



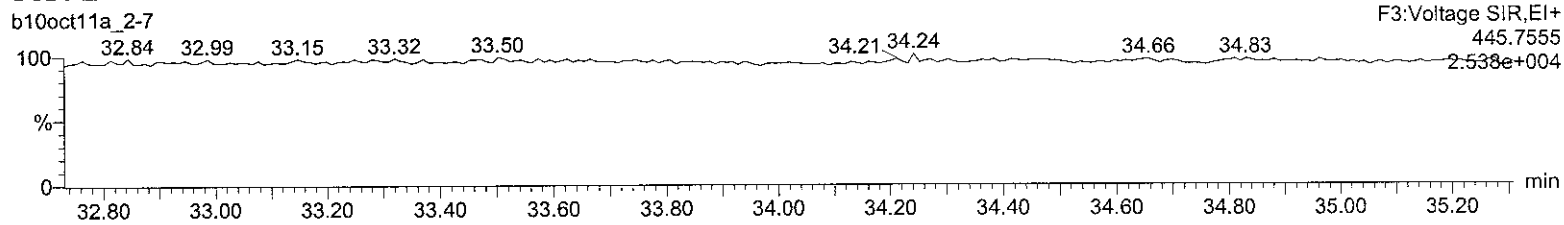
13C-123678-HxCDF



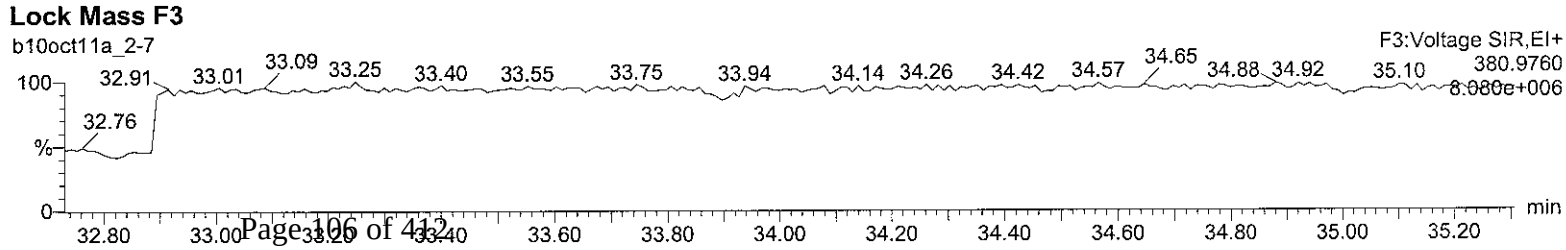
13C-123678-HxCDF



OcDPE



Lock Mass F3



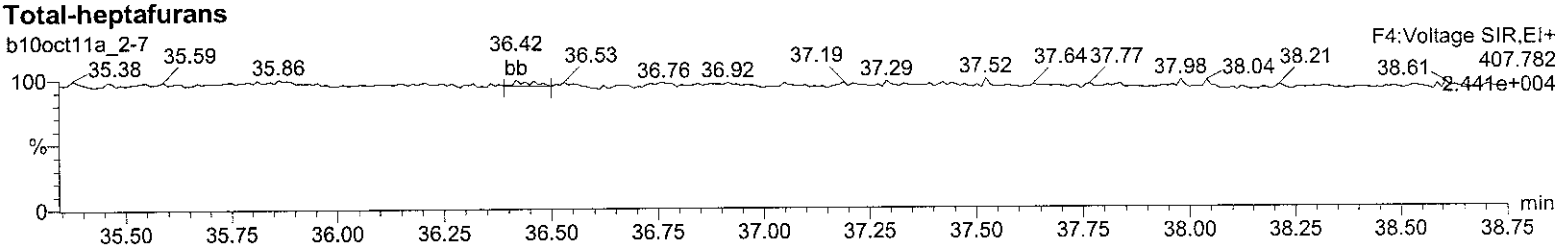
Quantify Sample Report **MassLynx 4.1**
Method 8290 Quantification Report

Dataset: C:\MassLynx\Default.pro\Sample Results\8290-b10oct11a_2.qld

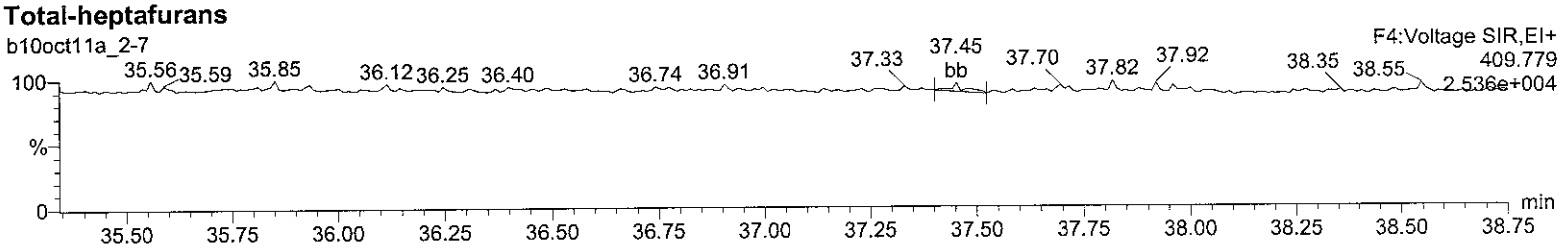
Last Altered: Tuesday, October 11, 2011 13:39:25 Eastern Standard Time
Printed: Tuesday, October 11, 2011 13:40:15 Eastern Standard Time

Name: b10oct11a_2-7, Date: 11-Oct-2011, Time: 05:04:45, ID: 2818004-1, Description: 19685, Job: HMS8290_1L, Task: HRP763_1, User: MJC

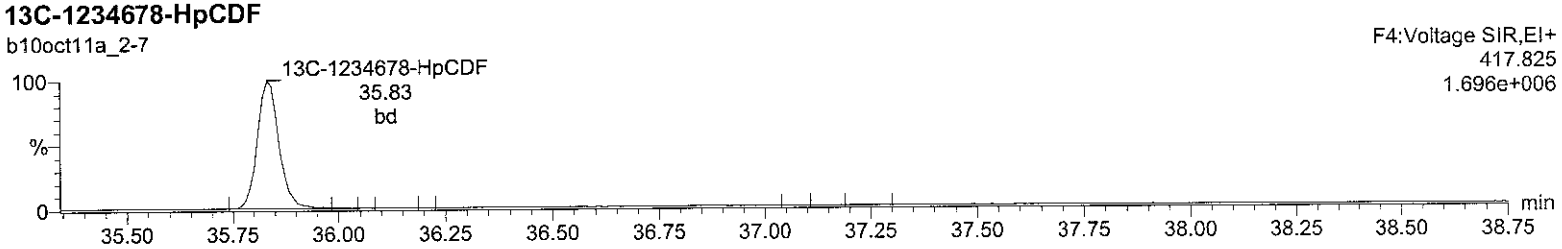
Total-heptafurans



Total-heptafurans



13C-1234678-HpCDF



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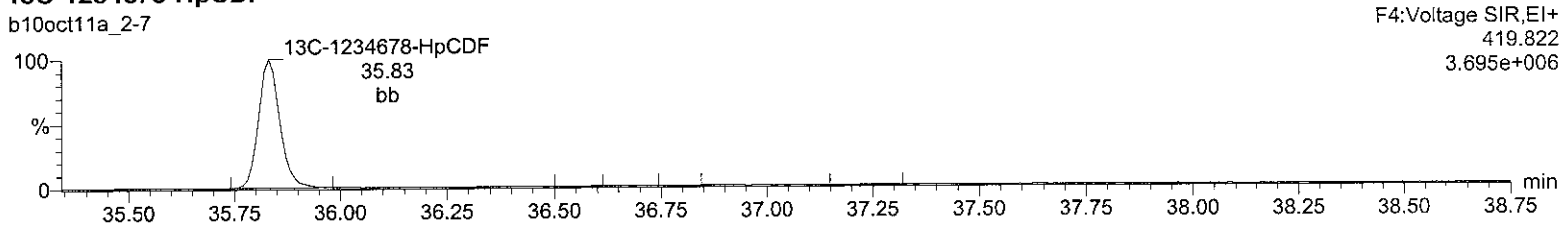
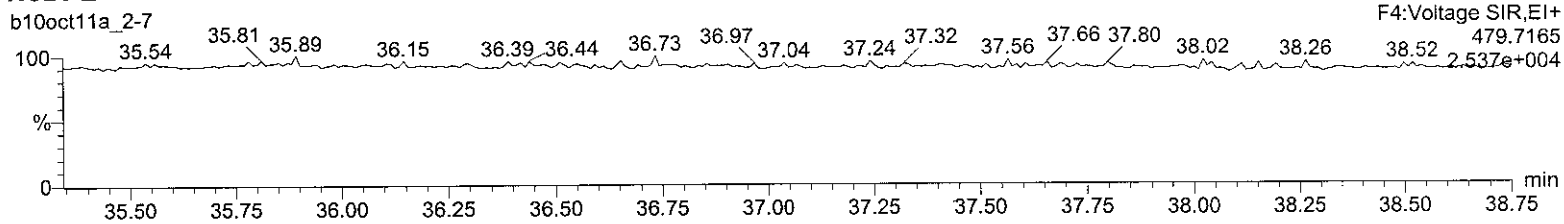
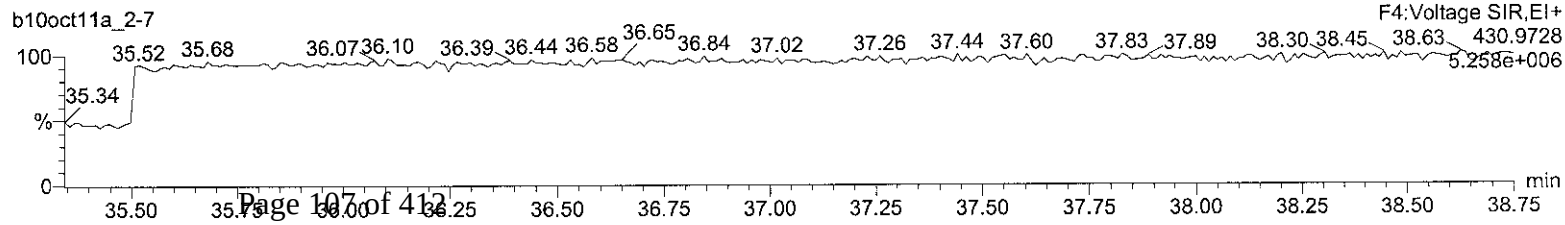


NoDPE



Lock Mass F4



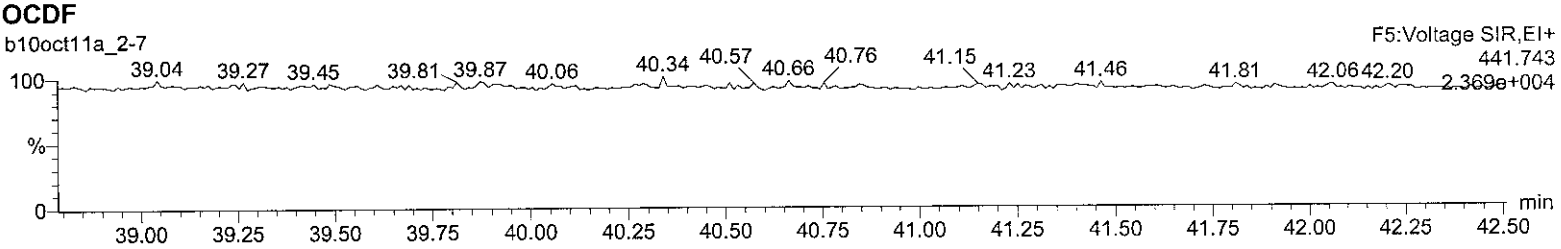
Quantify Sample Report **MassLynx 4.1**
Method 8290 Quantification Report

Dataset: C:\MassLynx\Default.pro\Sample Results\8290-b10oct11a_2.qld

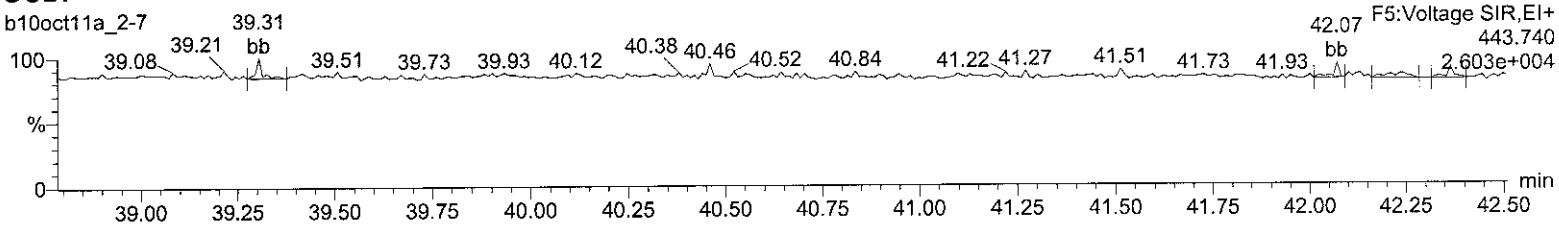
Last Altered: Tuesday, October 11, 2011 13:39:25 Eastern Standard Time
Printed: Tuesday, October 11, 2011 13:40:15 Eastern Standard Time

Name: b10oct11a_2-7, Date: 11-Oct-2011, Time: 05:04:45, ID: 2818004-1, Description: 19685, Job: HMS8290_1L, Task: HRP763_1, User: MJC

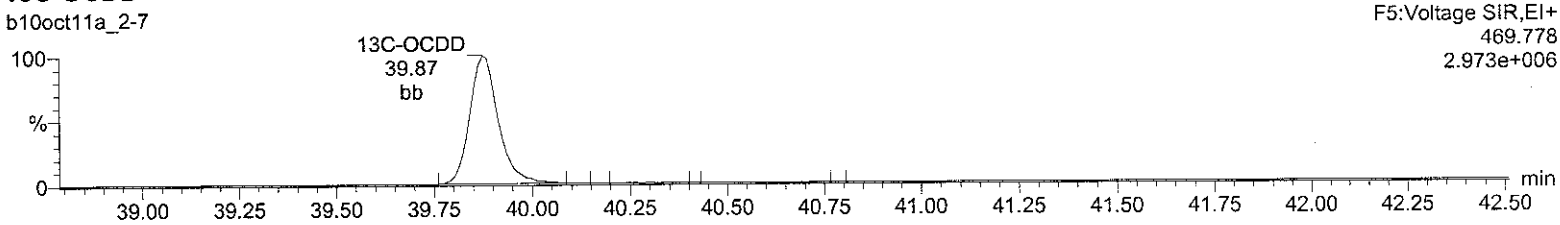
OCDF



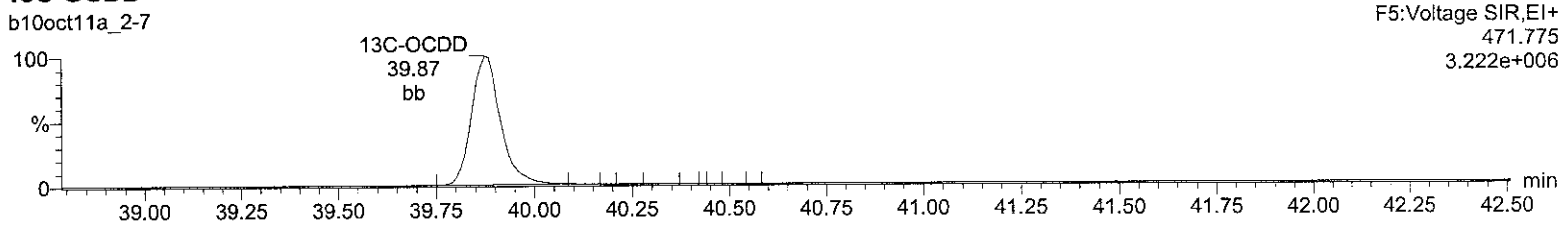
OCDF



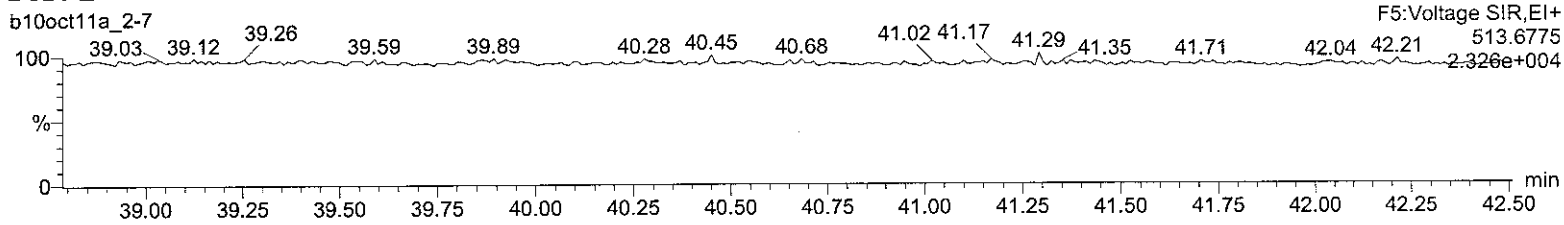
13C-OCDD



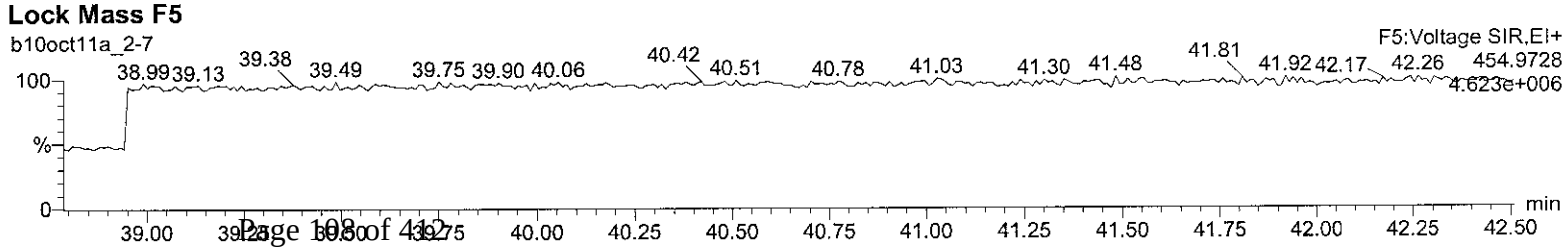
13C-OCDD



DeDPE



Lock Mass F5



Quality Control Raw Data

Hi-Res Dioxins/Furans
Certificate of Analysis
Sample Summary

SDG Number:	**1109191**	**Client:**	**EMPI001**	**Project:**	**QC**
Lab Sample ID:	**12004342**			**Matrix:**	**SOLID**
Client Sample:	**QC for batch 19663**				
Client ID:	**MB for batch 19663**			**Prep Basis:**	**As Received**
Batch ID:	**19680**	**Method:**	**SW846 8290A**		
Run Date:	**10/10/2011 15:33**	**Analyst:**	**MJC**	**Instrument:**	**HRP763**
Data File:	**b10oct11a-4**			**Dilution:**	**1**
Prep Batch:	**19663**	**Prep Method:**	**SW846 3540C**		
Prep Date:	**04-OCT-11**	**Aliquot:**	**10 g**		

CAS No.	Parmname	Qual	Result	EMPC	Units	EDL	PQL
1746-01-6	2,3,7,8-TCDD	U	.29		pg/g	0.290	1.00
40321-76-4	1,2,3,7,8-PeCDD	U	.19		pg/g	0.190	5.00
39227-28-6	1,2,3,4,7,8-HxCDD	U	.246		pg/g	0.246	5.00
57653-85-7	1,2,3,6,7,8-HxCDD	U	.228		pg/g	0.228	5.00
19408-74-3	1,2,3,7,8,9-HxCDD	U	.256		pg/g	0.256	5.00
35822-46-9	1,2,3,4,6,7,8-HpCDD	U	.388		pg/g	0.388	5.00
3268-87-9	1,2,3,4,6,7,8,9-OCDD	U	.57		pg/g	0.570	10.0
51207-31-9	2,3,7,8-TCDF	U	.194		pg/g	0.194	1.00
57117-41-6	1,2,3,7,8-PeCDF	U	.254		pg/g	0.254	5.00
57117-31-4	2,3,4,7,8-PeCDF	U	.26		pg/g	0.260	5.00
70648-26-9	1,2,3,4,7,8-HxCDF	U	.187		pg/g	0.187	5.00
57117-44-9	1,2,3,6,7,8-HxCDF	U	.161		pg/g	0.161	5.00
60851-34-5	2,3,4,6,7,8-HxCDF	U	.178		pg/g	0.178	5.00
72918-21-9	1,2,3,7,8,9-HxCDF	U	.214		pg/g	0.214	5.00
67562-39-4	1,2,3,4,6,7,8-HpCDF	U	.208		pg/g	0.208	5.00
55673-89-7	1,2,3,4,7,8,9-HpCDF	U	.286		pg/g	0.286	5.00
39001-02-0	1,2,3,4,6,7,8,9-OCDF	U	.678		pg/g	0.678	10.0
41903-57-5	Total Tetrachlorodibenzo-p-dioxin	U	.29		pg/g	0.290	1.00
36088-22-9	Total Pentachlorodibenzo-p-dioxin	U	.19		pg/g	0.190	5.00
34465-46-8	Total Hexachlorodibenzo-p-dioxin	U	.228		pg/g	0.228	5.00
37871-00-4	Total Heptachlorodibenzo-p-dioxin	U	.388		pg/g	0.388	5.00
30402-14-3	Total Tetrachlorodibenzofuran	U	.194		pg/g	0.194	1.00
30402-15-4	Total Pentachlorodibenzofuran	U	.254		pg/g	0.254	5.00
55684-94-1	Total Hexachlorodibenzofuran	U	.161		pg/g	0.161	5.00
38998-75-3	Total Heptachlorodibenzofuran	U	.208		pg/g	0.208	5.00
3333-30-0	TEQ WHO2005 ND=0		0.00	0.00	pg/g		
3333-30-1	TEQ WHO2005 ND=0.5		0.371	0.371	pg/g		

Surrogate/Tracer recovery	Qual	Result	Nominal	Units	Recovery%	Acceptable Limits
13C-2,3,7,8-TCDD		163	200	pg/g	81.7	(40%-135%)
13C-1,2,3,7,8-PeCDD		151	200	pg/g	75.4	(40%-135%)
13C-1,2,3,6,7,8-HxCDD		146	200	pg/g	73.2	(40%-135%)
13C-1,2,3,4,6,7,8-HpCDD		163	200	pg/g	81.4	(40%-135%)
13C-OCDD		251	400	pg/g	62.9	(40%-135%)
13C-2,3,7,8-TCDF		166	200	pg/g	83.1	(40%-135%)
13C-1,2,3,7,8-PeCDF		125	200	pg/g	62.5	(40%-135%)
13C-1,2,3,6,7,8-HxCDF		124	200	pg/g	61.8	(40%-135%)
13C-1,2,3,4,6,7,8-HpCDF		130	200	pg/g	64.8	(40%-135%)

Comments:

U Analyte was analyzed for , but not detected above the specified detection limit.

Quantify Sample Summary Report **MassLynx 4.1**
Method 8290 Quantification Report

Dataset: C:\MassLynx\Default.pro\Sample Results\8290-b10oct11a.qld

Last Altered: Tuesday, October 11, 2011 08:03:54 Eastern Standard Time
Printed: Tuesday, October 11, 2011 11:07:35 Eastern Standard Time

HMP
11Oct11

Method: C:\MassLynx\DEFAULT.PRO\MethDB\CFA_EPA8290_101011.mdb 10 Oct 2011 14:05:54
Calibration: C:\MassLynx\DEFAULT.PRO\CurveDB\8290-b01nov10b.cdb 02 Nov 2010 08:19:01

Name: b10oct11a-4, Date: 10-Oct-2011, Time: 15:33:47, ID: 12004342-1 MB, Description: 19680, Job: HMS8290_1S, Task: HRP763_1, User: MJC

	Name	Ion1Area	Ion2Area	Response	RT	RRT	RA	Fail?	pg/uL	EDL	Height1	Noise1	S/N1	Height2	Noise2	S/N2	M
1	2378-TCDD							NO		0.145		702			804		
2	12378-PeCDD							NO		0.0950		936			730		
3	123478-HxCDD							NO		0.123		696			756		
4	123678-HxCDD							NO		0.114		696			756		
5	123789-HxCDD							NO		0.128		696			756		
6	1234678-HpCDD							NO		0.194		915			672		
7	OCDD							NO		0.285		516			639		
8	2378-TCDF	1.10e2	1.96e2	3.06e2	25.67	1.002	0.56	YES	0.072	0.0971	2.47e3	627	3.9	3.48e3	980	3.5	db
9	12378-PeCDF							NO		0.127		691			1009		
10	23478-PeCDF							NO		0.130		691			1009		
11	123478-HxCDF							NO		0.0936		762			673		
12	123678-HxCDF							NO		0.0805		762			673		
13	234678-HxCDF							NO		0.0890		762			673		
14	123789-HxCDF							NO		0.107		762			673		
15	1234678-HpCDF							NO		0.104		620			725		
16	1234789-HpCDF							NO		0.143		620			725		
17	OCDF							NO		0.339		786			918		
18	13C-2378-TCDD	1.15e5	1.45e5	2.60e5	26.54	1.027	0.79	NO	81.708	0.327	1.13e6	2676	422.9	1.39e6	1389	1000.2	bb
19	13C-12378-PeCDD	1.23e5	8.03e4	2.04e5	32.06	1.240	1.53	NO	75.373	0.278	2.57e6	1596	1611.9	1.61e6	1327	1212.7	bb
20	13C-123678-HxCDD	9.70e4	7.77e4	1.75e5	34.27	0.995	1.25	NO	73.171	0.316	1.82e6	3179	573.9	1.46e6	2179	671.3	bd
21	13C-1234678-HpCDD	7.29e4	6.70e4	1.40e5	36.77	1.068	1.09	NO	81.409	0.292	1.06e6	1666	637.1	9.20e5	1900	484.0	bd
22	13C-OCDD	8.63e4	9.41e4	1.80e5	39.85	1.157	0.92	NO	125.743	0.291	9.75e5	1410	691.3	1.09e6	1554	700.7	bb
23	13C-2378-TCDF	1.89e5	2.41e5	4.30e5	25.63	0.992	0.79	NO	83.101	0.195	1.85e6	1875	987.7	2.41e6	2063	1169.2	bb
24	13C-12378-PeCDF	1.83e5	1.18e5	3.01e5	31.02	1.200	1.55	NO	62.511	0.263	2.17e6	2899	748.3	1.47e6	2037	720.5	bd
25	13C-123678-HxCDF	7.42e4	1.42e5	2.16e5	33.69	0.978	0.52	NO	61.775	0.254	1.45e6	2290	631.8	2.79e6	4032	692.4	bd
26	13C-1234678-HpCDF	4.76e4	1.03e5	1.50e5	35.82	1.040	0.46	NO	64.769	0.256	8.00e5	2121	377.0	1.73e6	2090	825.7	bb
27	13C-1234-TCDD	1.26e5	1.58e5	2.84e5	25.84	0.000	0.80	NO	100.000	0.367	1.23e6	2676	460.3	1.61e6	1389	1162.1	bb
28	13C-123789-HxCDD	1.19e5	9.54e4	2.15e5	34.44	0.000	1.25	NO	100.000	0.352	2.12e6	3179	666.0	1.65e6	2179	758.6	dd
29	37Cl-2378-TCDD (SS)									0.0612		660					
30	13C-23478-PeCDF (SS)	1.12e3	8.39e2	1.95e3	31.86	1.027	1.33	NO	0.696	0.370	2.08e4	2899	7.2	2.10e4	2037	10.3	bb

Quantify Totals Report MassLynx 4.1
Method 8290 Quantification Report

Dataset: C:\MassLynx\Default.pro\Sample Results\8290-b10oct11a.qld

Last Altered: Tuesday, October 11, 2011 08:03:54 Eastern Standard Time
Printed: Tuesday, October 11, 2011 11:07:35 Eastern Standard Time

Method: C:\MassLynx\DEFAULT.PRO\MethDB\CFA_EPA8290_101011.mdb 10 Oct 2011 14:05:54
Calibration: C:\MassLynx\DEFAULT.PRO\CurveDB\8290-b01nov10b.cdb 02 Nov 2010 08:19:01

Name: b10oct11a-4, Date: 10-Oct-2011, Time: 15:33:47, ID: 12004342-1 MB, Description: 19680, Job: HMS8290_1S, Task: HRP763_1, User: MJC

TD

	Name	Ion1Area	Ion2Area	Response	RT	RA	Fail?	pg/uL	EDL	Height1	Noise1	S/N1	Height2	Noise2	S/N2	M
1																

PD

	Name	Ion1Area	Ion2Area	Response	RT	RA	Fail?	pg/uL	EDL	Height1	Noise1	S/N1	Height2	Noise2	S/N2	M
1																

HD

	Name	Ion1Area	Ion2Area	Response	RT	RA	Fail?	pg/uL	EDL	Height1	Noise1	S/N1	Height2	Noise2	S/N2	M
1																

HPD

	Name	Ion1Area	Ion2Area	Response	RT	RA	Fail?	pg/uL	EDL	Height1	Noise1	S/N1	Height2	Noise2	S/N2	M
1																

TF

	Name	Ion1Area	Ion2Area	Response	RT	RA	Fail?	pg/uL	EDL	Height1	Noise1	S/N1	Height2	Noise2	S/N2	M
1	2378-TCDF	1.10e2	1.96e2	3.06e2	25.67	0.56	YES	0.072	0.0971	2.47e3	627	3.9	3.48e3	980	3.5	db

PF1

	Name	Ion1Area	Ion2Area	Response	RT	RA	Fail?	pg/uL	EDL	Height1	Noise1	S/N1	Height2	Noise2	S/N2	M
1																

Quantify Totals Report MassLynx 4.1
Method 8290 Quantification Report

Dataset: C:\MassLynx\Default.pro\Sample Results\8290-b10oct11a.qld

Last Altered: Tuesday, October 11, 2011 08:03:54 Eastern Standard Time
Printed: Tuesday, October 11, 2011 11:07:35 Eastern Standard Time

Name: b10oct11a-4, Date: 10-Oct-2011, Time: 15:33:47, ID: 12004342-1 MB, Description: 19680, Job: HMS8290_1S, Task: HRP763_1, User: MJC

	Name	Ion1Area	Ion2Area	Response	RT	RA	Fail?	pg/uL	EDL	Height1	Noise1	S/N1	Height2	Noise2	S/N2	M
1																

HF

	Name	Ion1Area	Ion2Area	Response	RT	RA	Fail?	pg/uL	EDL	Height1	Noise1	S/N1	Height2	Noise2	S/N2	M
1																

HPF

	Name	Ion1Area	Ion2Area	Response	RT	RA	Fail?	pg/uL	EDL	Height1	Noise1	S/N1	Height2	Noise2	S/N2	M
1																

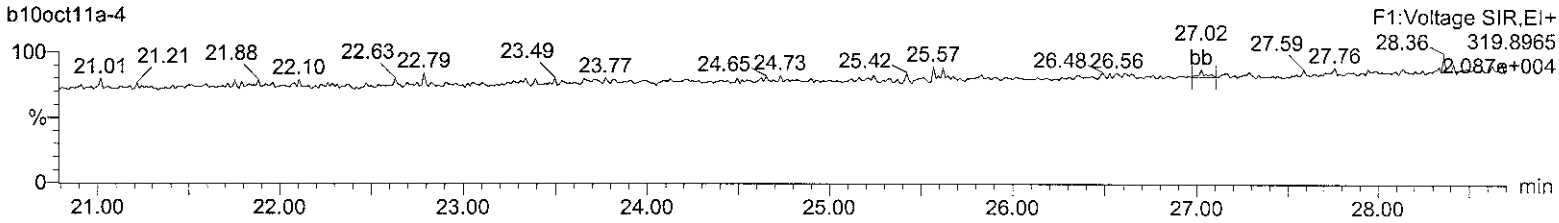
Quantify Sample Report **MassLynx 4.1**
Method 8290 Quantification Report

Dataset: C:\MassLynx\Default.pro\Sample Results\8290-b10oct11a.qld

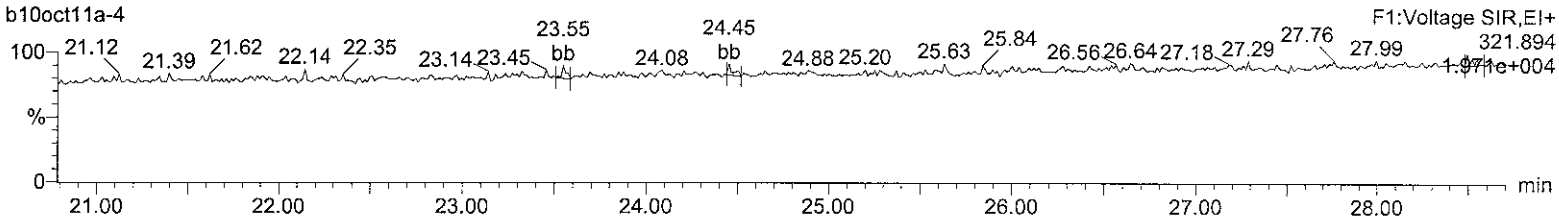
Last Altered: Tuesday, October 11, 2011 08:03:54 Eastern Standard Time
Printed: Tuesday, October 11, 2011 08:04:29 Eastern Standard Time

Name: b10oct11a-4, Date: 10-Oct-2011, Time: 15:33:47, ID: 12004342-1 MB, Description: 19680, Job: HMS8290_1S, Task: HRP763_1, User: MJC

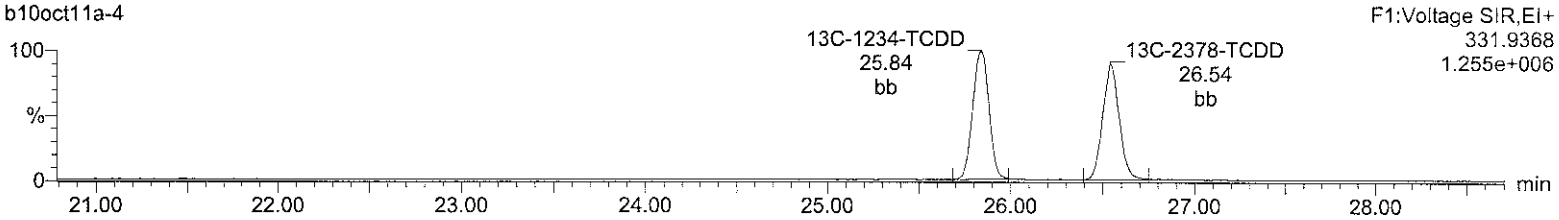
Total-tetradioxins



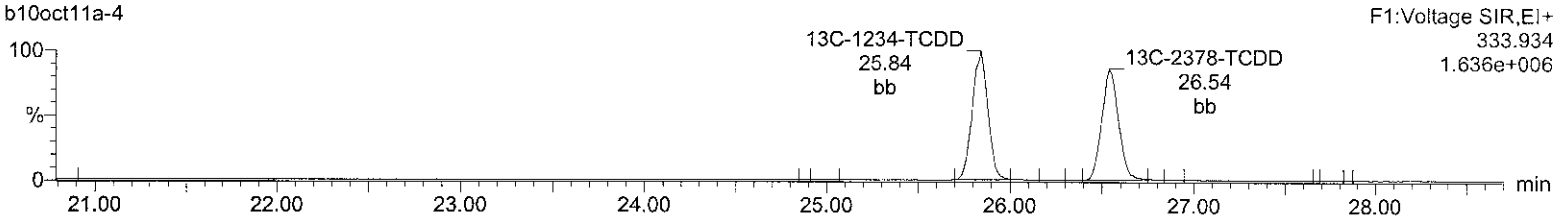
Total-tetradioxins



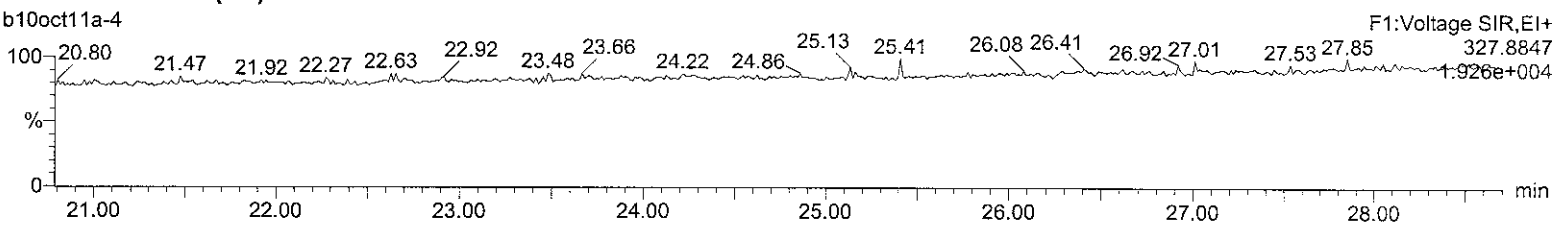
13C-2378-TCDD



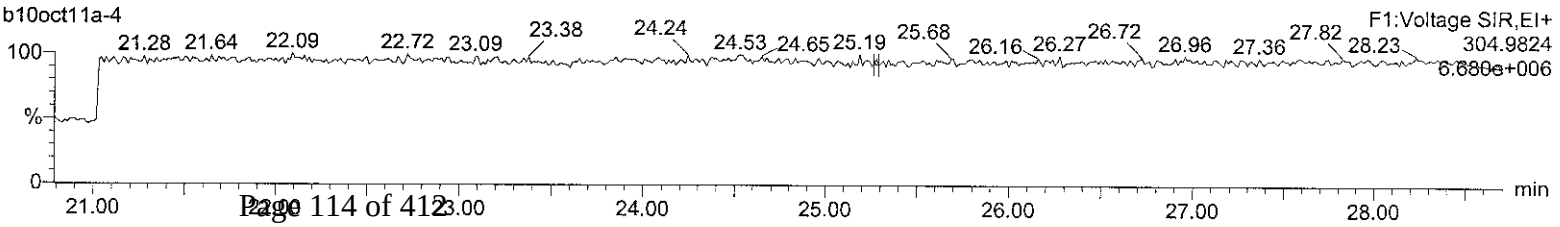
13C-2378-TCDD



37Cl-2378-TCDD (SS)



Lock Mass F1



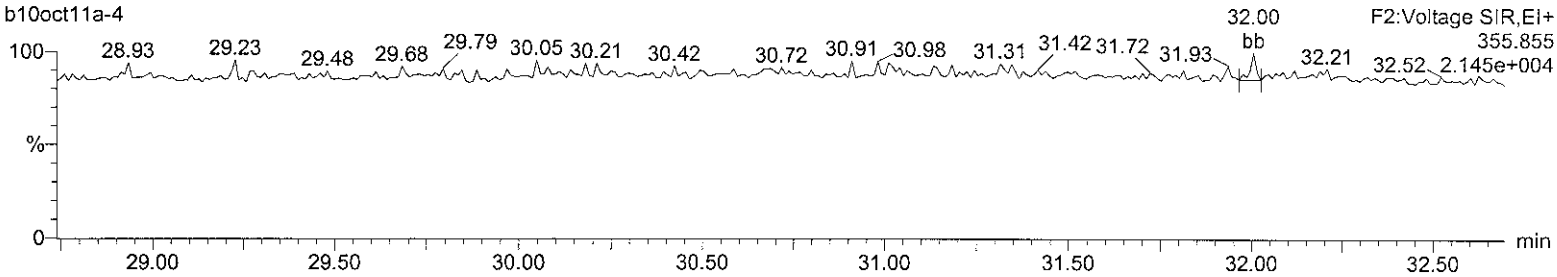
Quantify Sample Report **MassLynx 4.1**
Method 8290 Quantification Report

Dataset: C:\MassLynx\Default.pro\Sample Results\8290-b10oct11a.qld

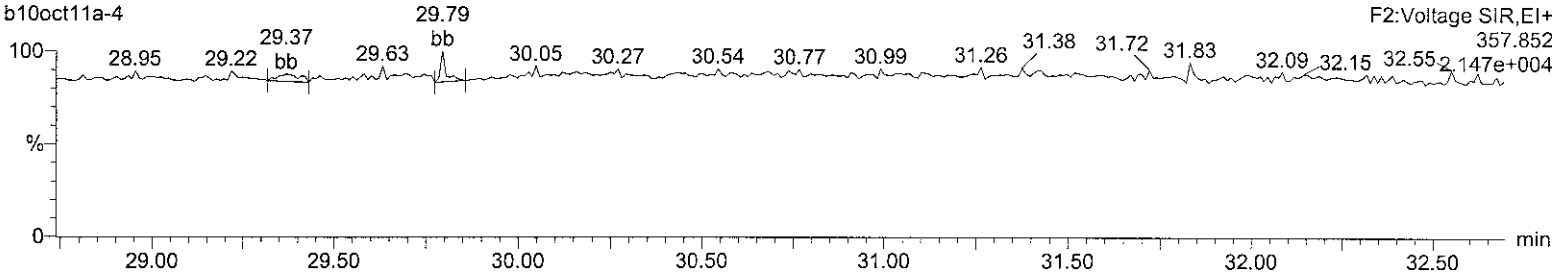
Last Altered: Tuesday, October 11, 2011 08:03:54 Eastern Standard Time
Printed: Tuesday, October 11, 2011 08:04:29 Eastern Standard Time

Name: b10oct11a-4, Date: 10-Oct-2011, Time: 15:33:47, ID: 12004342-1 MB, Description: 19680, Job: HMS8290_1S, Task: HRP763_1, User: MJC

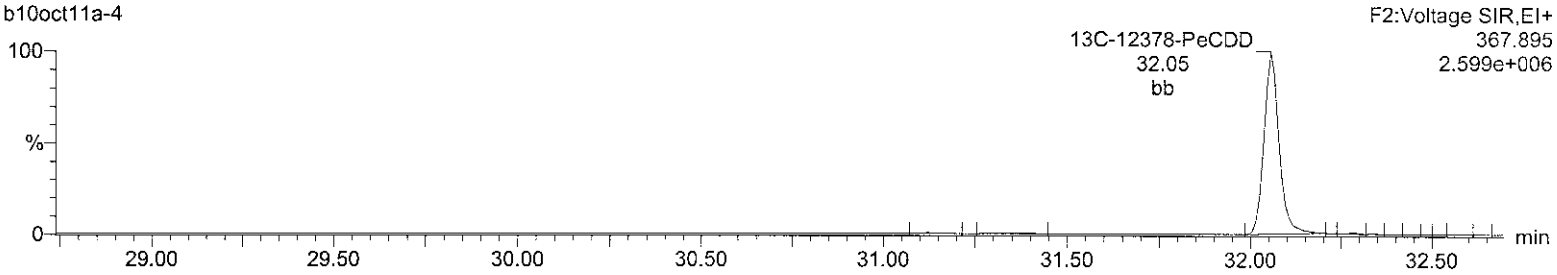
Total-pentadioxins



Total-pentadioxins



13C-12378-PeCDD



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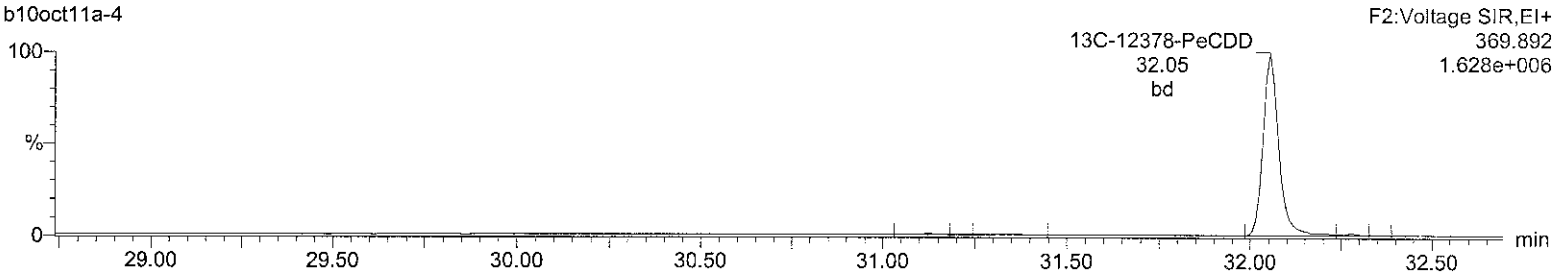
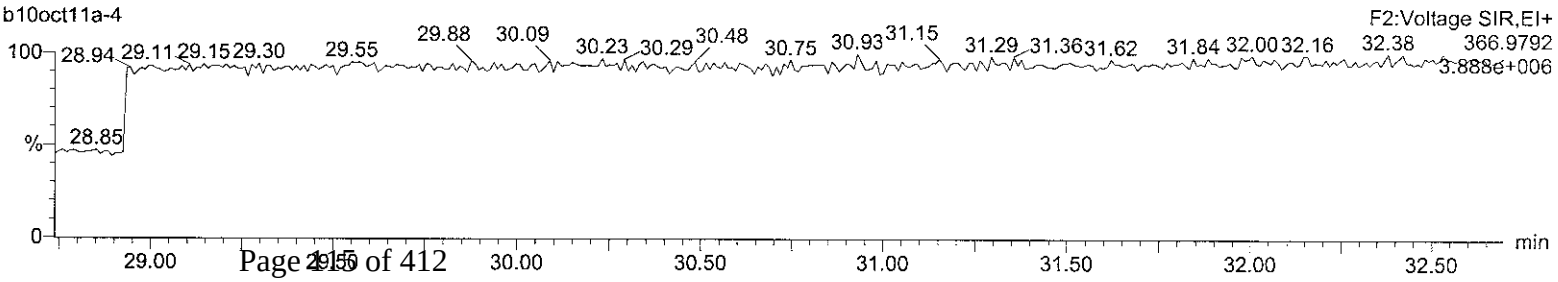


Lock Mass F2



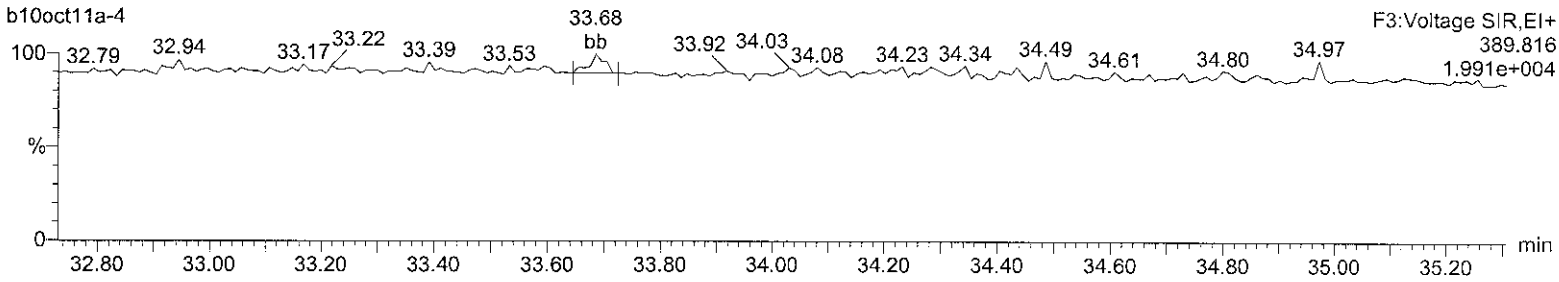
Quantify Sample Report **MassLynx 4.1**
Method 8290 Quantification Report

Dataset: C:\MassLynx\Default.pro\Sample Results\8290-b10oct11a.qld

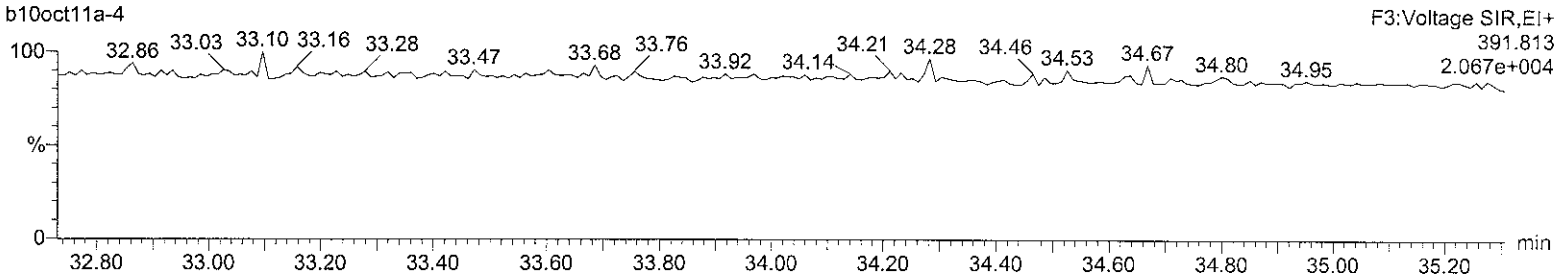
Last Altered: Tuesday, October 11, 2011 08:03:54 Eastern Standard Time
Printed: Tuesday, October 11, 2011 08:04:29 Eastern Standard Time

Name: b10oct11a-4, Date: 10-Oct-2011, Time: 15:33:47, ID: 12004342-1 MB, Description: 19680, Job: HMS8290_1S, Task: HRP763_1, User: MJC

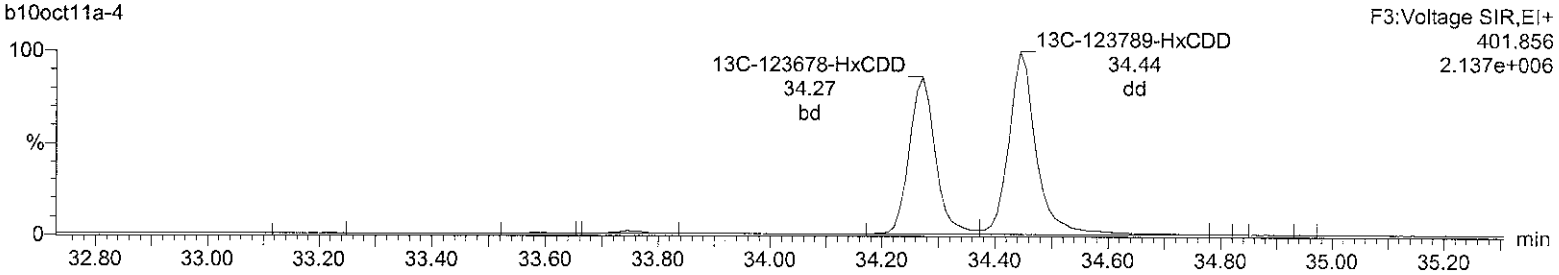
Total-hexadioxins



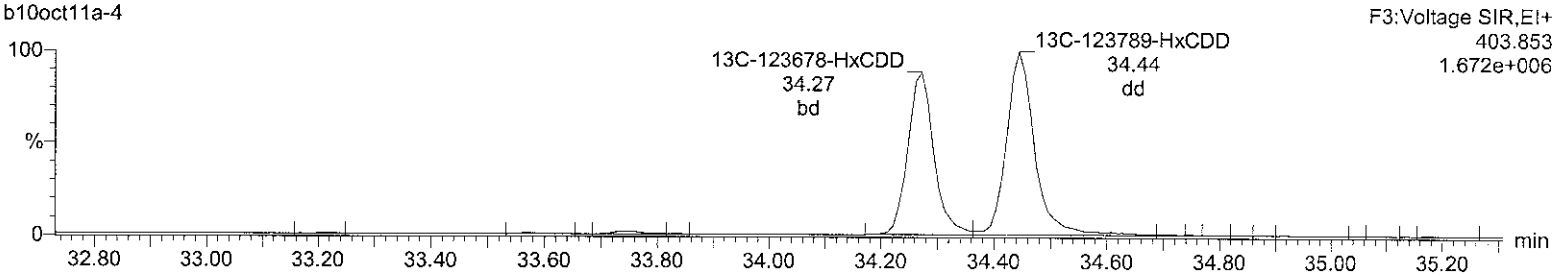
Total-hexadioxins



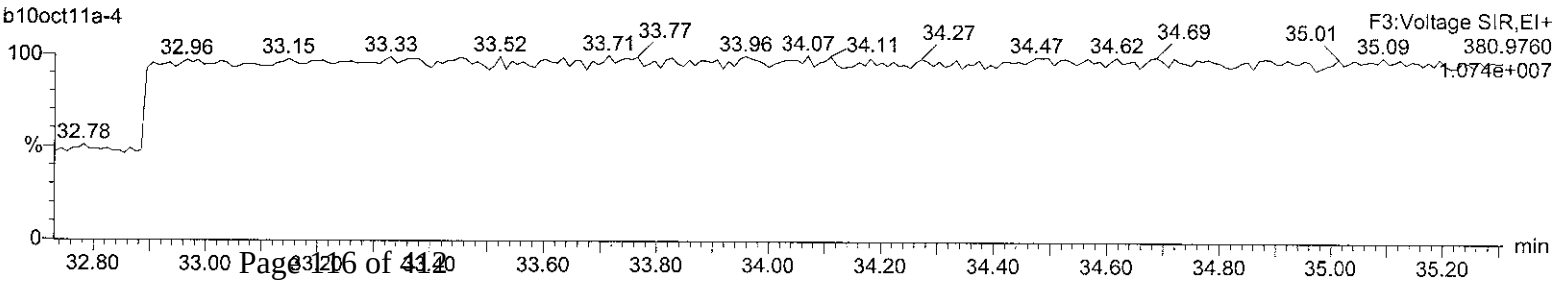
13C-123678-HxCDD



13C-123678-HxCDD



Lock Mass F3



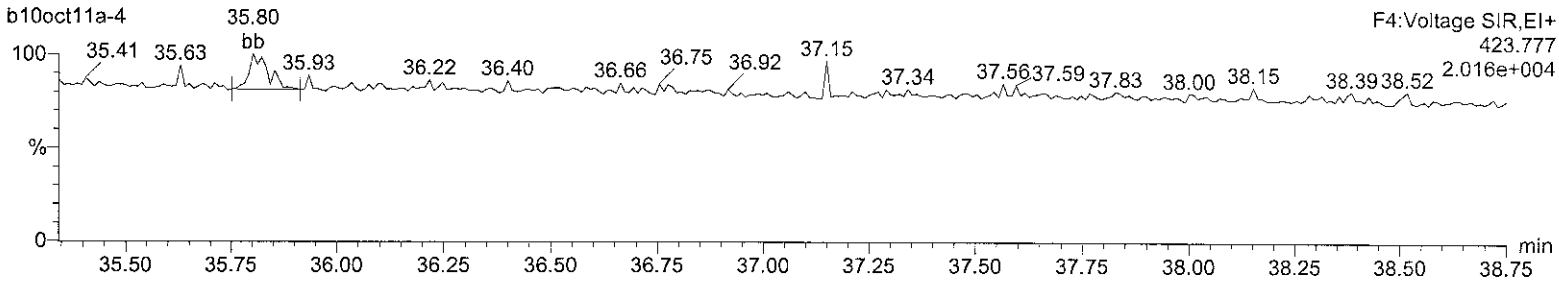
Quantify Sample Report **MassLynx 4.1**
Method 8290 Quantification Report

Dataset: C:\MassLynx\Default.pro\Sample Results\8290-b10oct11a.qld

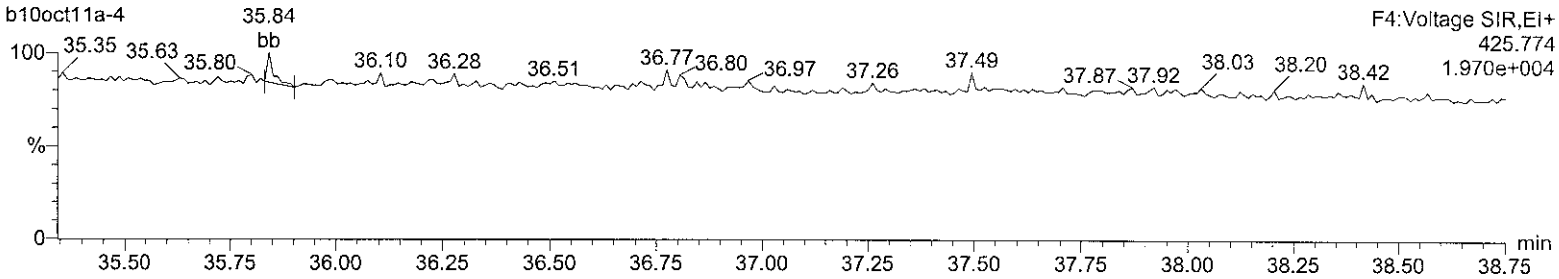
Last Altered: Tuesday, October 11, 2011 08:03:54 Eastern Standard Time
Printed: Tuesday, October 11, 2011 08:04:29 Eastern Standard Time

Name: b10oct11a-4, Date: 10-Oct-2011, Time: 15:33:47, ID: 12004342-1 MB, Description: 19680, Job: HMS8290_1S, Task: HRP763_1, User: MJC

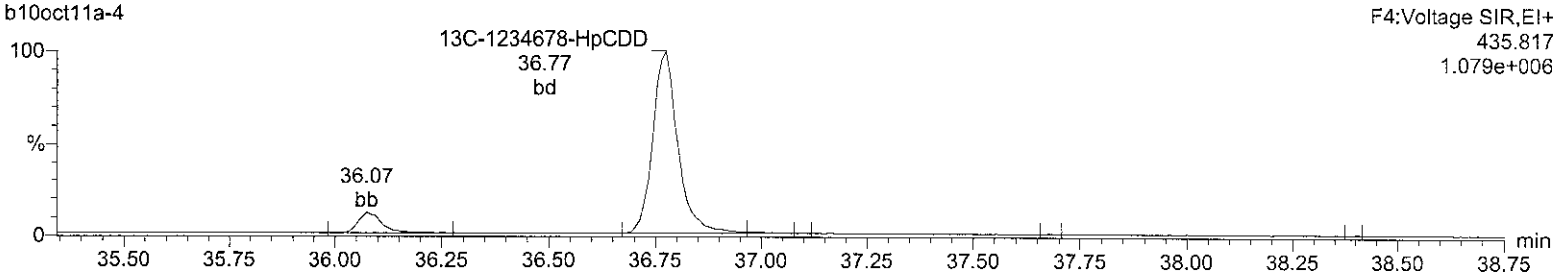
Total-heptadioxins



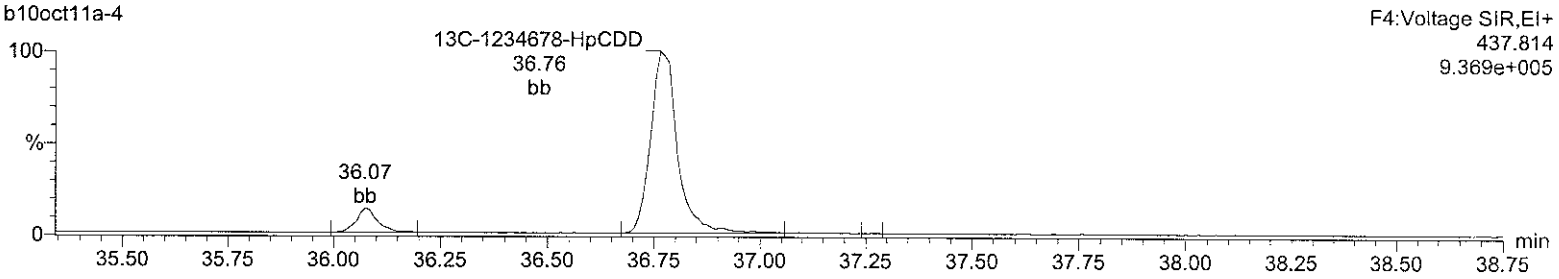
Total-heptadioxins



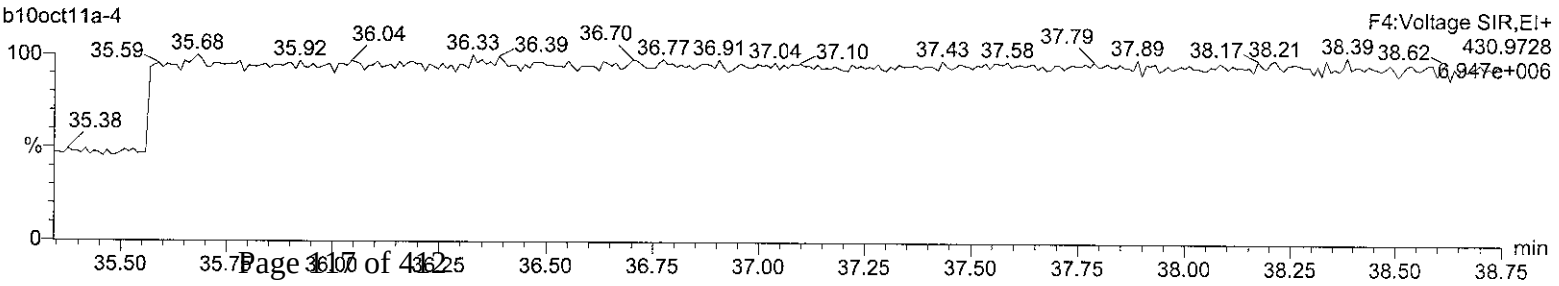
13C-1234678-HpCDD



13C-1234678-HpCDD



Lock Mass F4



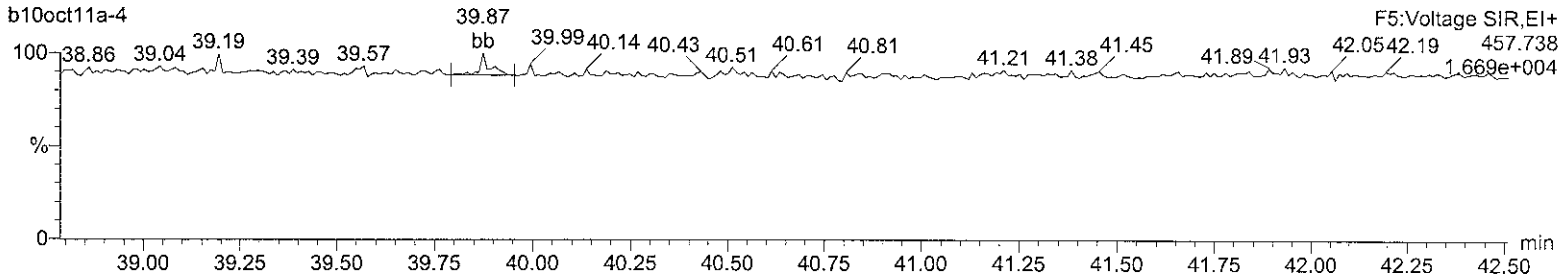
Quantify Sample Report **MassLynx 4.1**
Method 8290 Quantification Report

Dataset: C:\MassLynx\Default.pro\Sample Results\8290-b10oct11a.qld

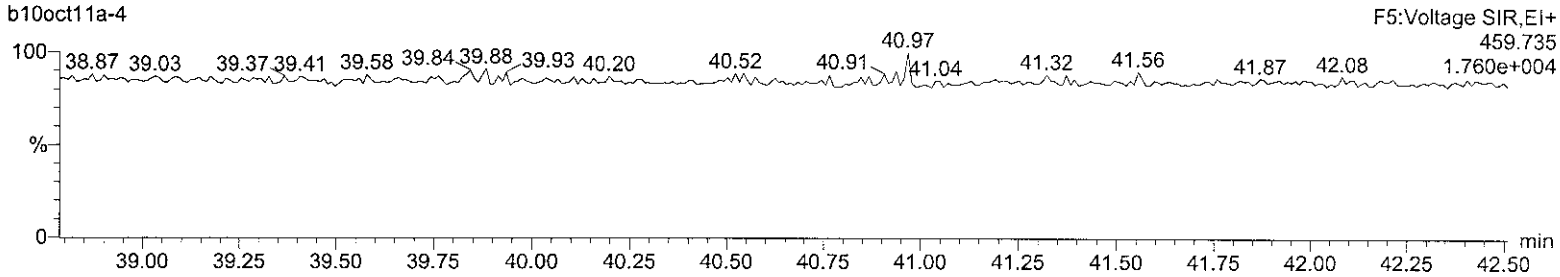
Last Altered: Tuesday, October 11, 2011 08:03:54 Eastern Standard Time
Printed: Tuesday, October 11, 2011 08:04:29 Eastern Standard Time

Name: b10oct11a-4, Date: 10-Oct-2011, Time: 15:33:47, ID: 12004342-1 MB, Description: 19680, Job: HMS8290_1S, Task: HRP763_1, User: MJC

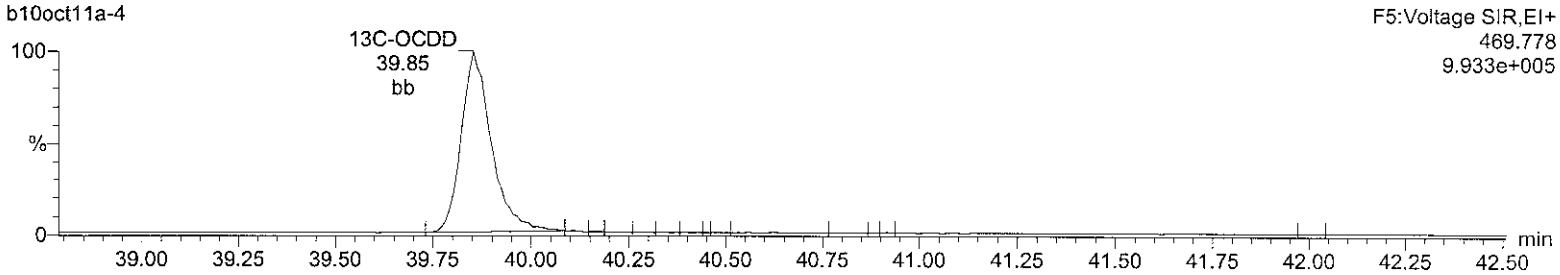
OCDD



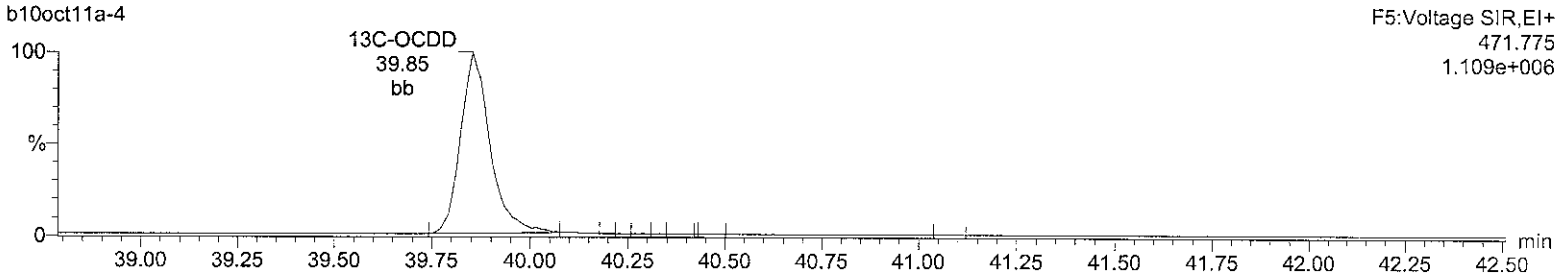
OCDD



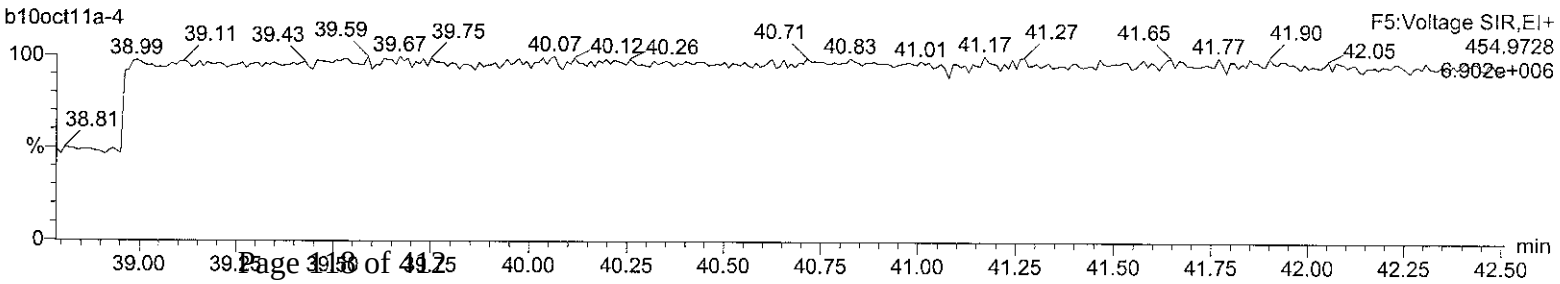
13C-OCDD



13C-OCDD



Lock Mass F5



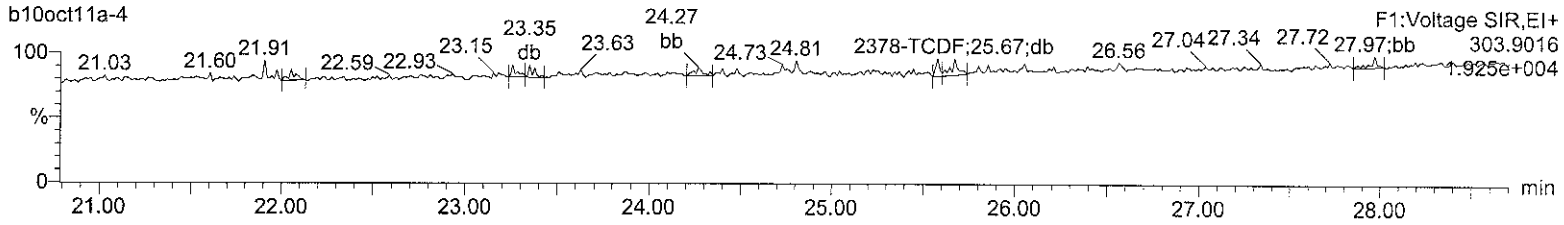
Quantify Sample Report **MassLynx 4.1**
Method 8290 Quantification Report

Dataset: C:\MassLynx\Default.pro\Sample Results\8290-b10oct11a.qld

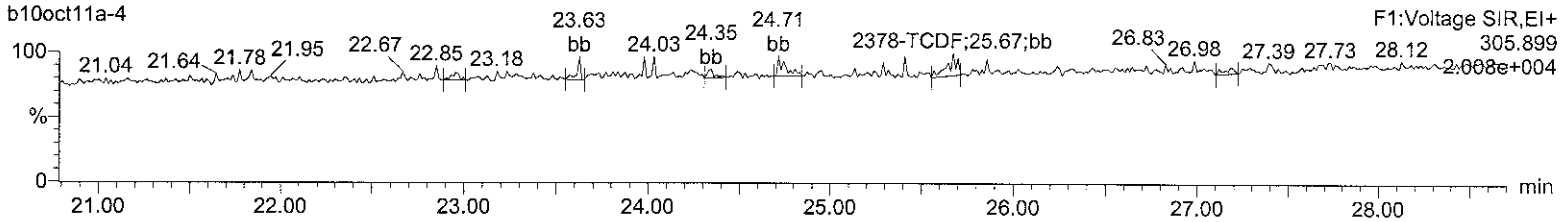
Last Altered: Tuesday, October 11, 2011 08:03:54 Eastern Standard Time
Printed: Tuesday, October 11, 2011 08:04:29 Eastern Standard Time

Name: b10oct11a-4, Date: 10-Oct-2011, Time: 15:33:47, ID: 12004342-1 MB, Description: 19680, Job: HMS8290_1S, Task: HRP763_1, User: MJC

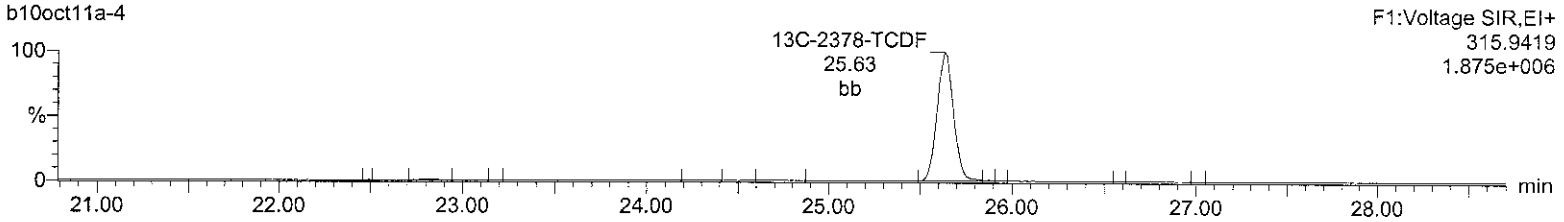
Total-tetrafurans



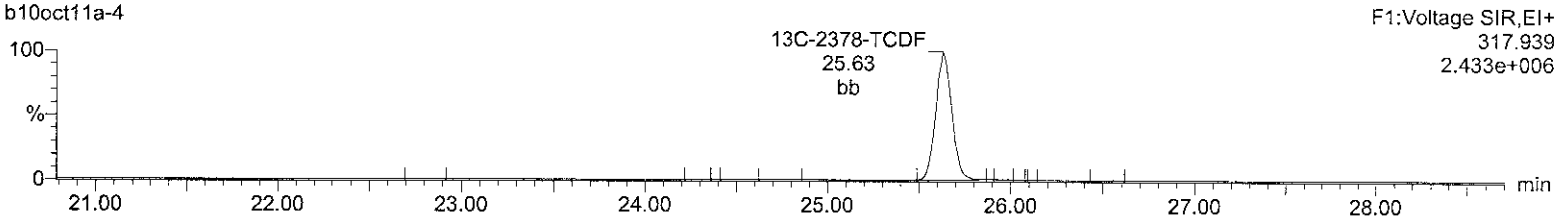
Total-tetrafurans



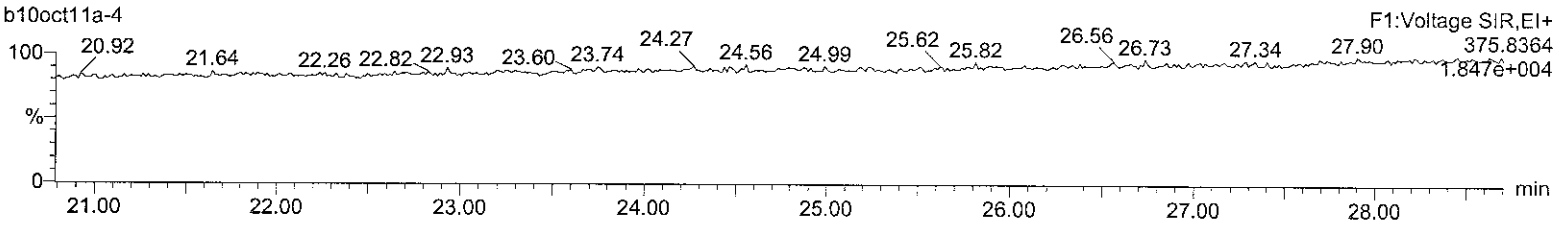
13C-2378-TCDF



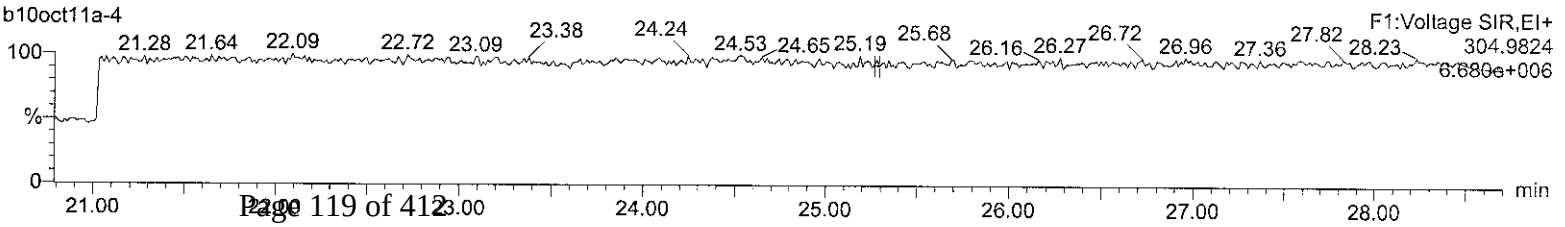
13C-2378-TCDF



HxDPE



Lock Mass F1



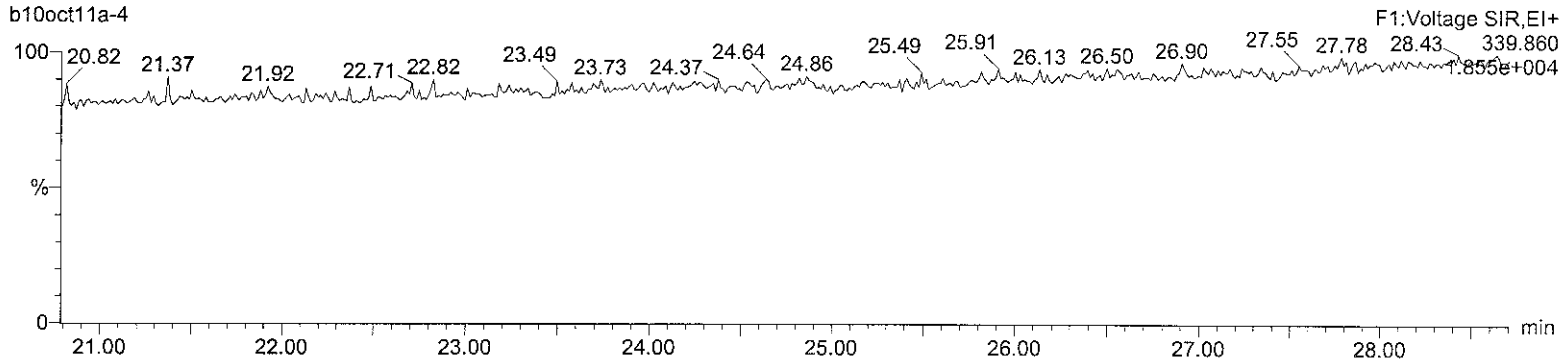
Quantify Sample Report **MassLynx 4.1**
Method 8290 Quantification Report

Dataset: C:\MassLynx\Default.pro\Sample Results\8290-b10oct11a.qld

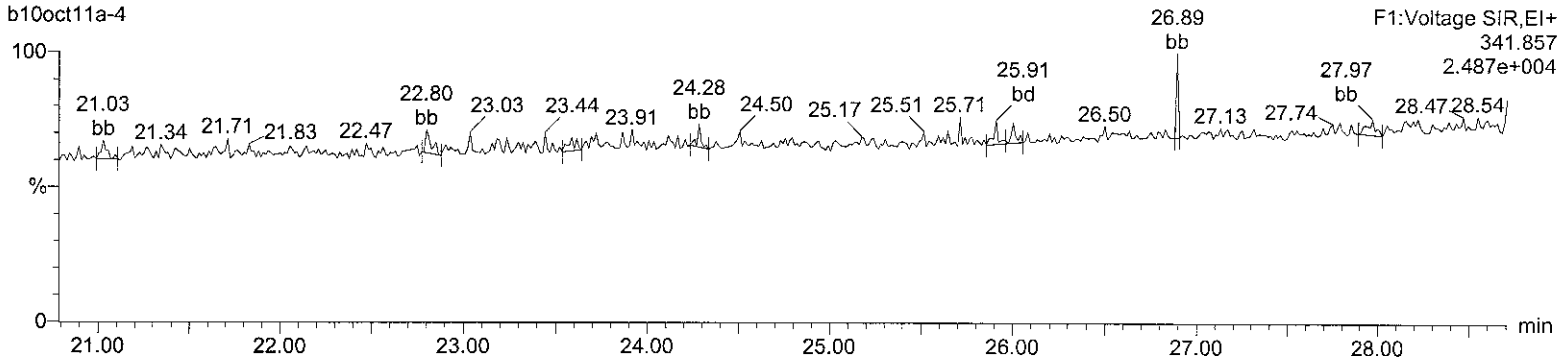
Last Altered: Tuesday, October 11, 2011 08:03:54 Eastern Standard Time
Printed: Tuesday, October 11, 2011 08:04:29 Eastern Standard Time

Name: b10oct11a-4, Date: 10-Oct-2011, Time: 15:33:47, ID: 12004342-1 MB, Description: 19680, Job: HMS8290_1S, Task: HRP763_1, User: MJC

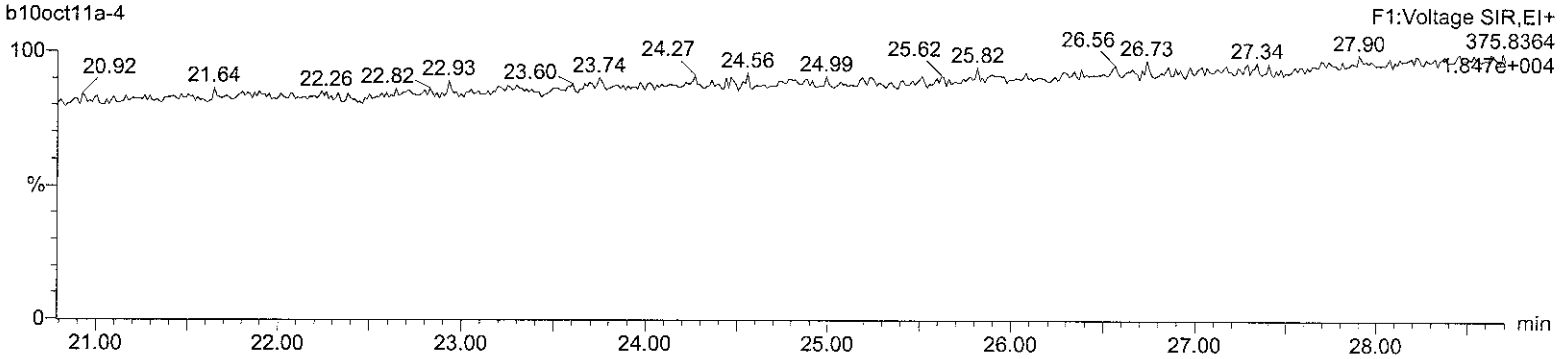
Total-pentafurans (F1)



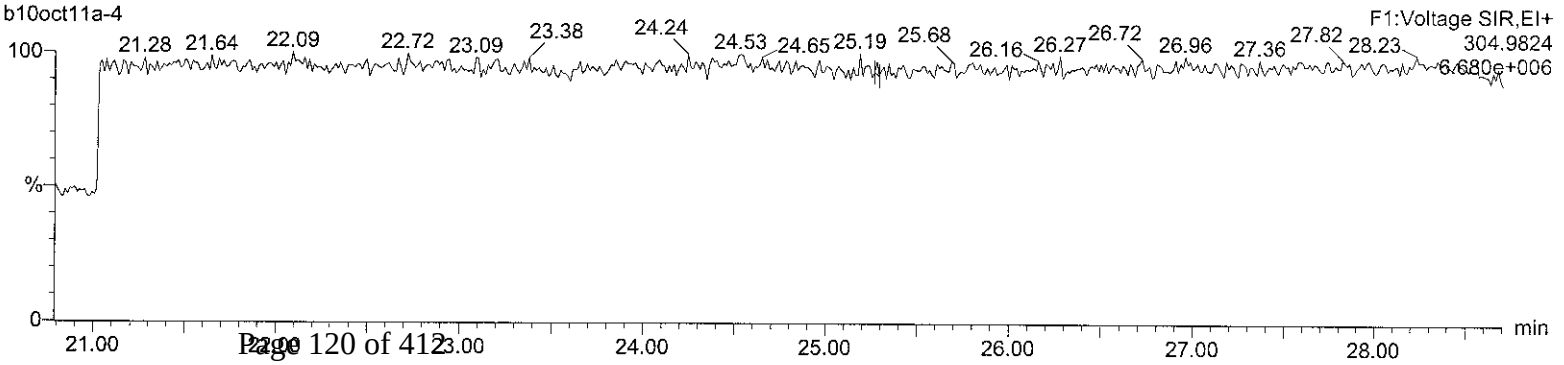
Total-pentafurans (F1)



HxDPE



Lock Mass F1



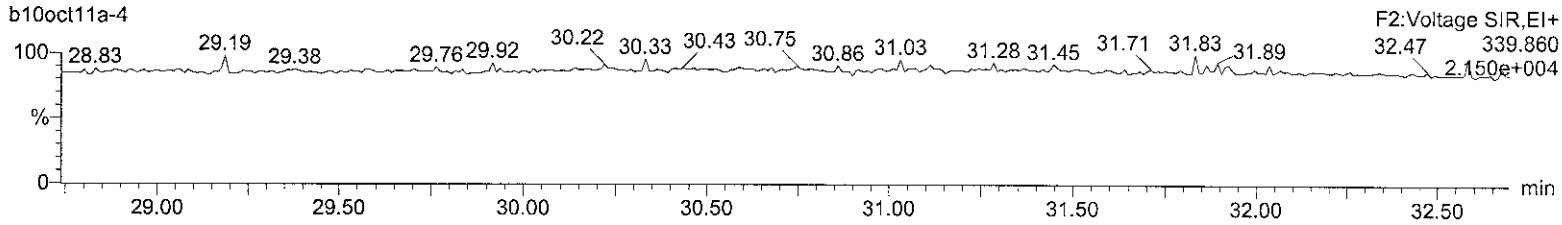
Quantify Sample Report **MassLynx 4.1**
Method 8290 Quantification Report

Dataset: C:\MassLynx\Default.pro\Sample Results\8290-b10oct11a.qld

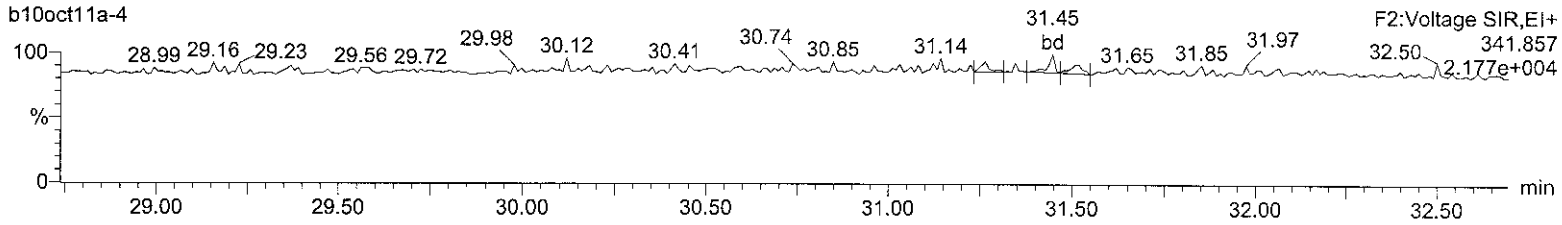
Last Altered: Tuesday, October 11, 2011 08:03:54 Eastern Standard Time
Printed: Tuesday, October 11, 2011 08:04:29 Eastern Standard Time

Name: b10oct11a-4, Date: 10-Oct-2011, Time: 15:33:47, ID: 12004342-1 MB, Description: 19680, Job: HMS8290_1S, Task: HRP763_1, User: MJC

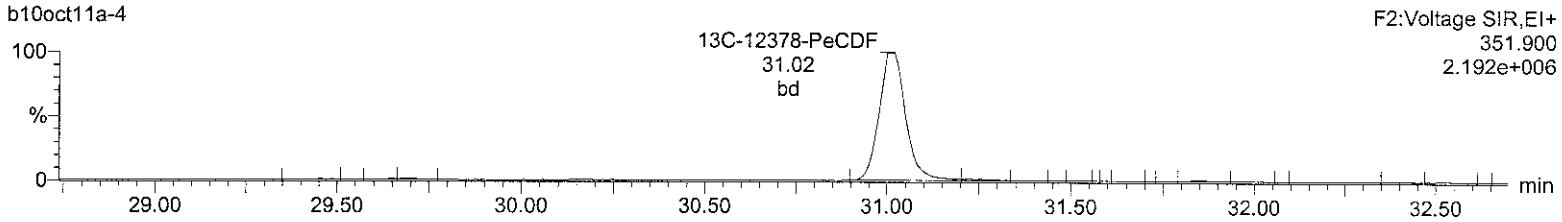
Total-pentafurans



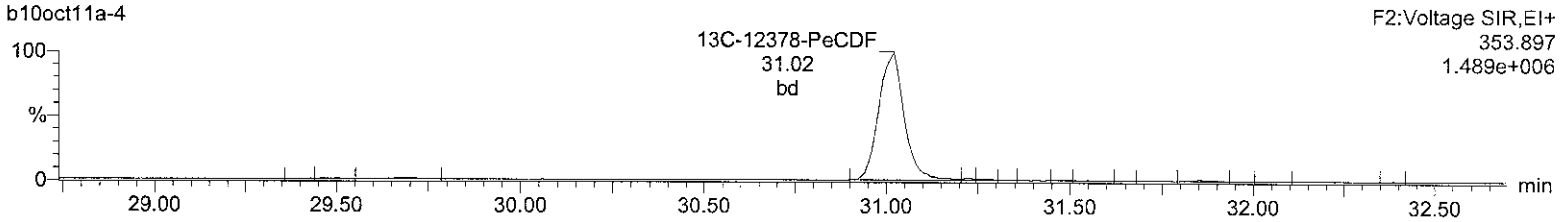
Total-pentafurans



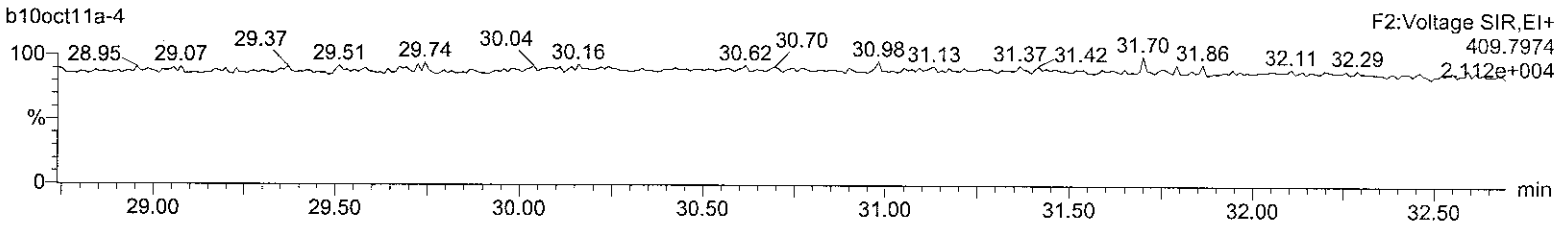
13C-12378-PeCDF



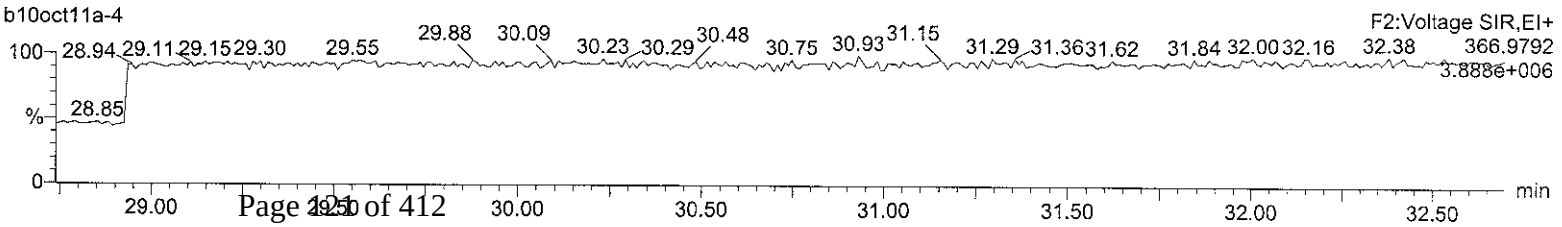
13C-12378-PeCDF



HpDPE



Lock Mass F2



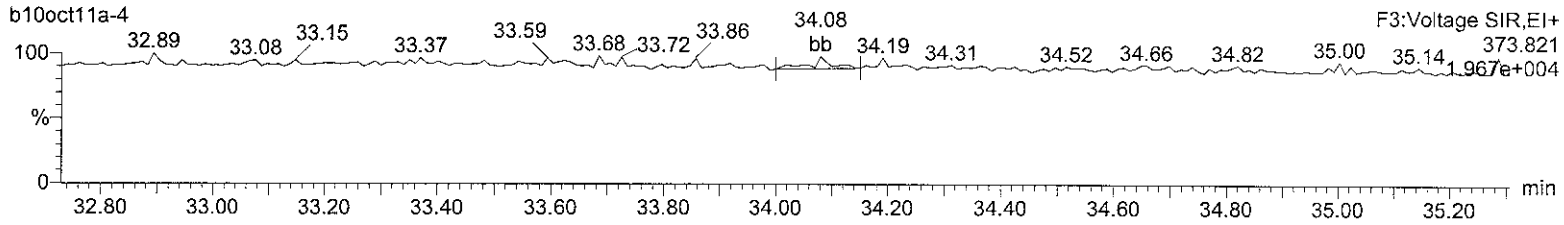
Quantify Sample Report **MassLynx 4.1**
Method 8290 Quantification Report

Dataset: C:\MassLynx\Default.pro\Sample Results\8290-b10oct11a.qld

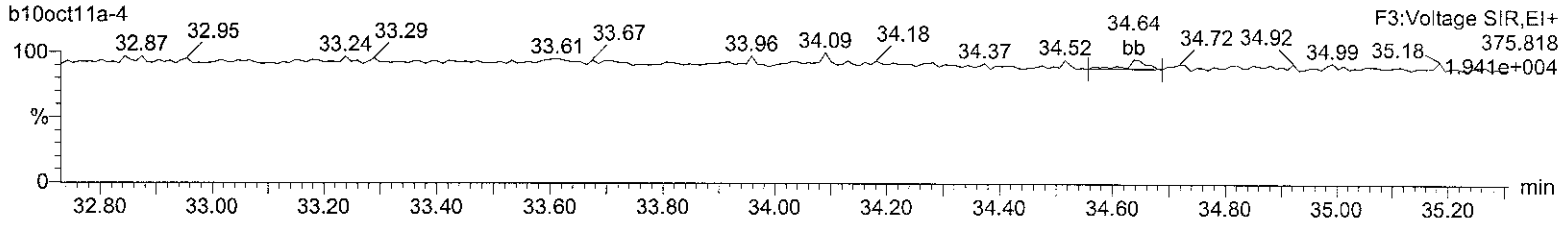
Last Altered: Tuesday, October 11, 2011 08:03:54 Eastern Standard Time
Printed: Tuesday, October 11, 2011 08:04:29 Eastern Standard Time

Name: b10oct11a-4, Date: 10-Oct-2011, Time: 15:33:47, ID: 12004342-1 MB, Description: 19680, Job: HMS8290_1S, Task: HRP763_1, User: MJC

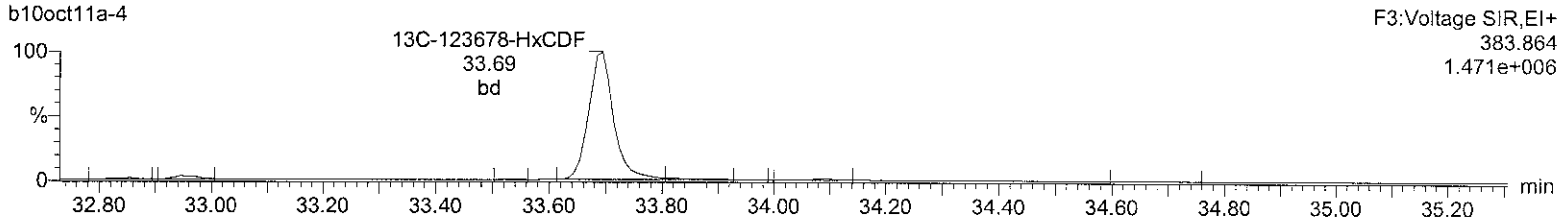
Total-hexafurans



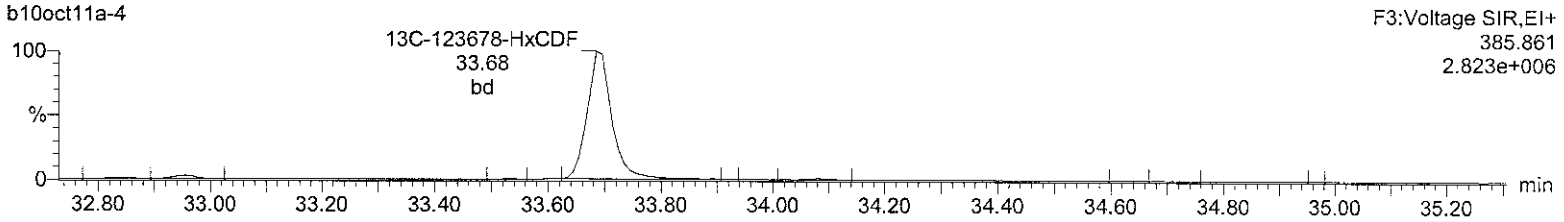
Total-hexafurans



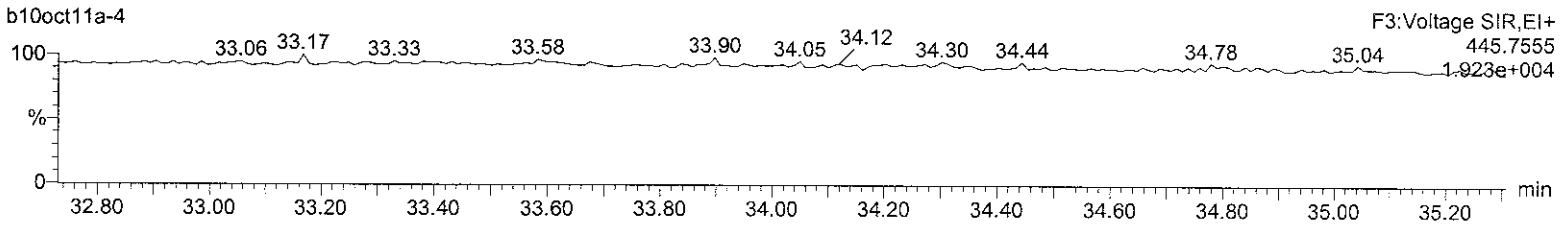
13C-123678-HxCDF



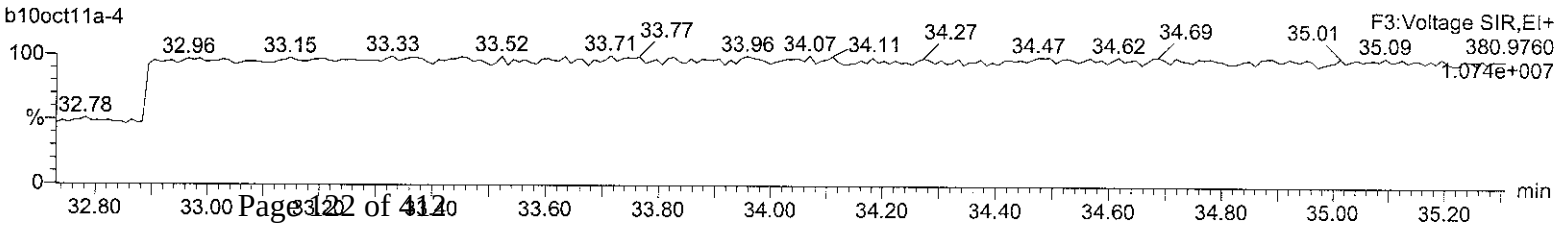
13C-123678-HxCDF



OcDPE



Lock Mass F3



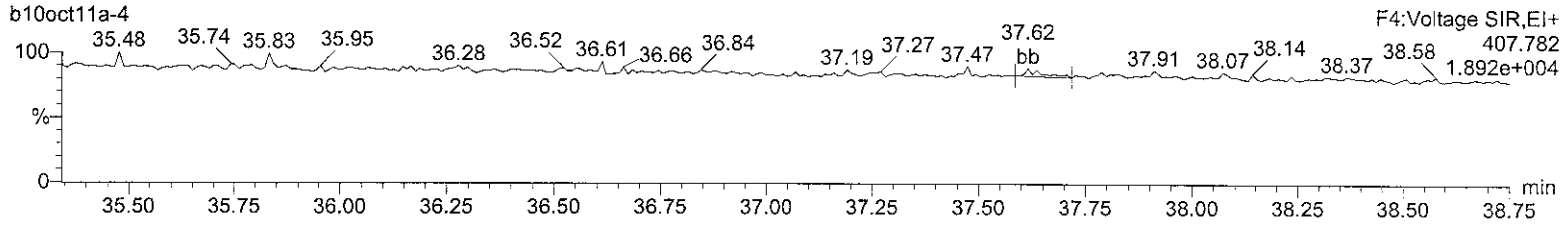
Quantify Sample Report **MassLynx 4.1**
Method 8290 Quantification Report

Dataset: C:\MassLynx\Default.pro\Sample Results\8290-b10oct11a.qld

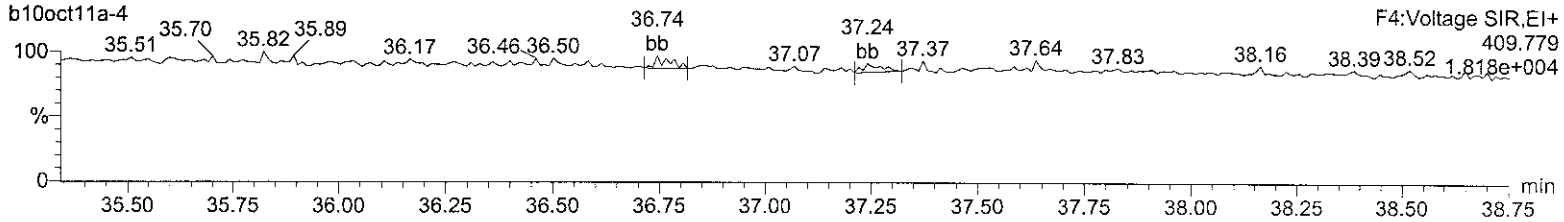
Last Altered: Tuesday, October 11, 2011 08:03:54 Eastern Standard Time
Printed: Tuesday, October 11, 2011 08:04:29 Eastern Standard Time

Name: b10oct11a-4, Date: 10-Oct-2011, Time: 15:33:47, ID: 12004342-1 MB, Description: 19680, Job: HMS8290_1S, Task: HRP763_1, User: MJC

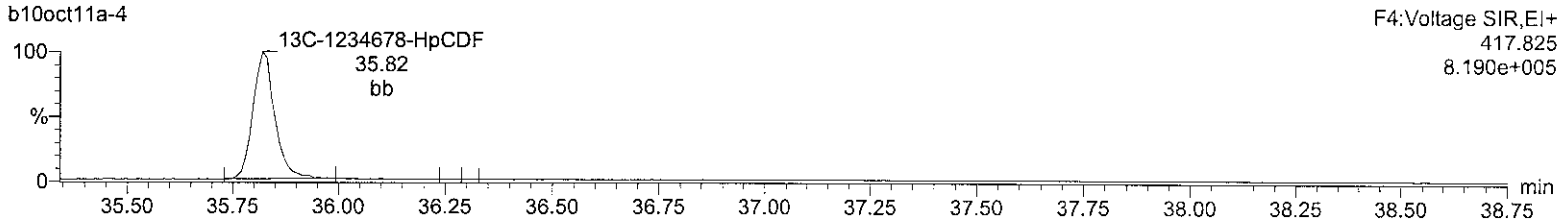
Total-heptafurans



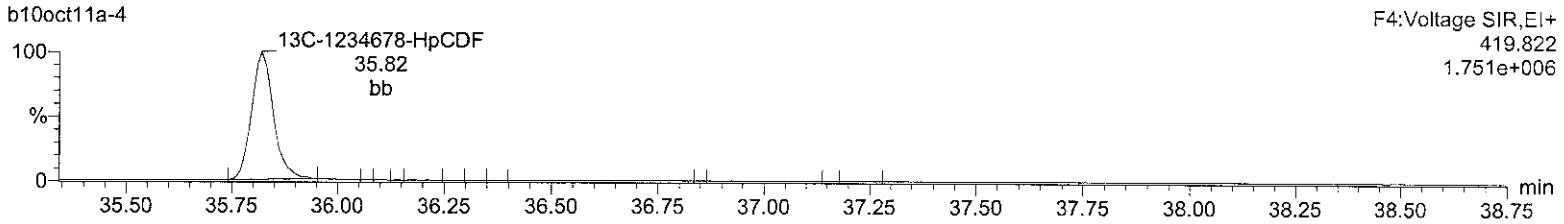
Total-heptafurans



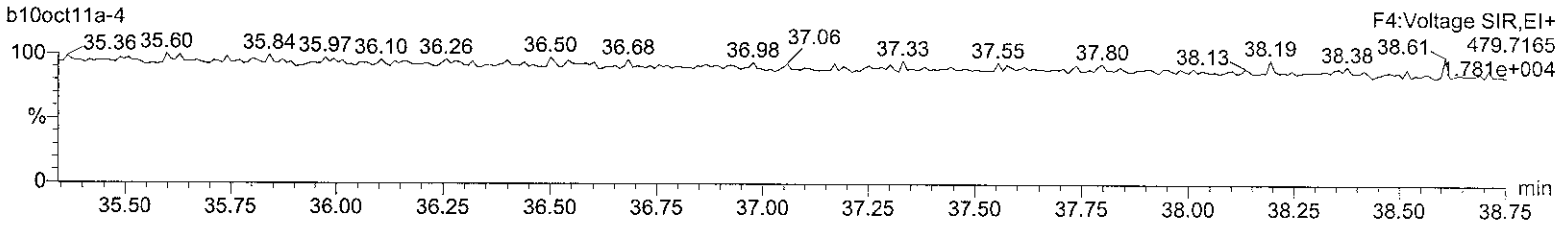
13C-1234678-HpCDF



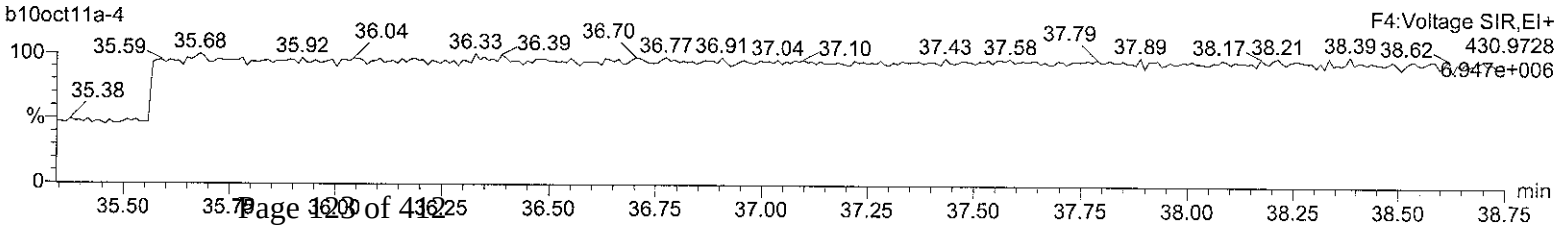
13C-1234678-HpCDF



NoDPE



Lock Mass F4



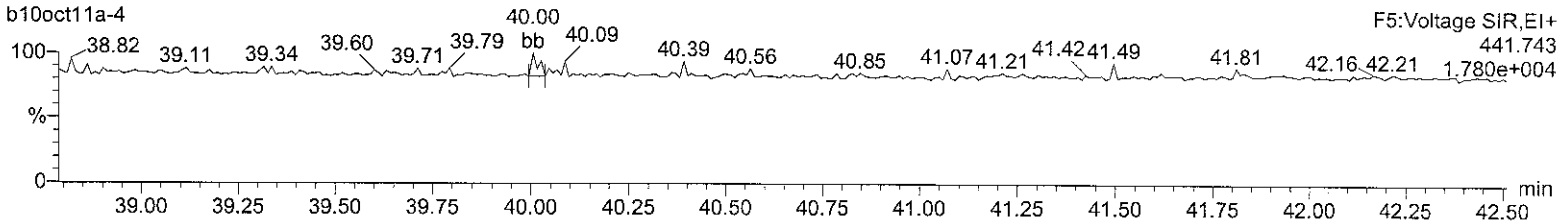
Quantify Sample Report **MassLynx 4.1**
Method 8290 Quantification Report

Dataset: C:\MassLynx\Default.pro\Sample Results\8290-b10oct11a.qld

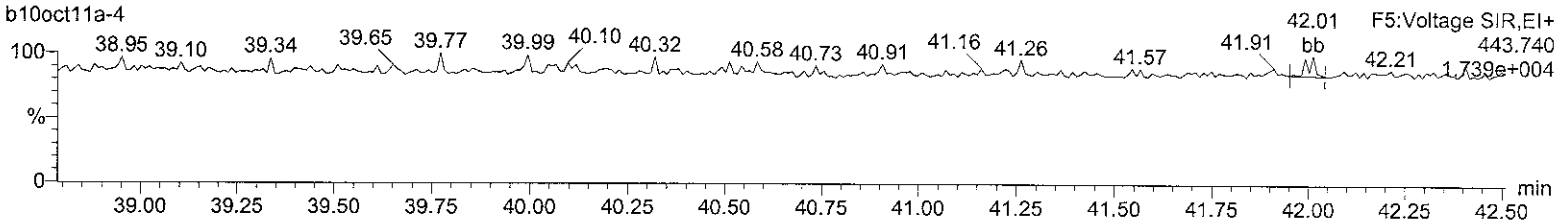
Last Altered: Tuesday, October 11, 2011 08:03:54 Eastern Standard Time
Printed: Tuesday, October 11, 2011 08:04:29 Eastern Standard Time

Name: b10oct11a-4, Date: 10-Oct-2011, Time: 15:33:47, ID: 12004342-1 MB, Description: 19680, Job: HMS8290_1S, Task: HRP763_1, User: MJC

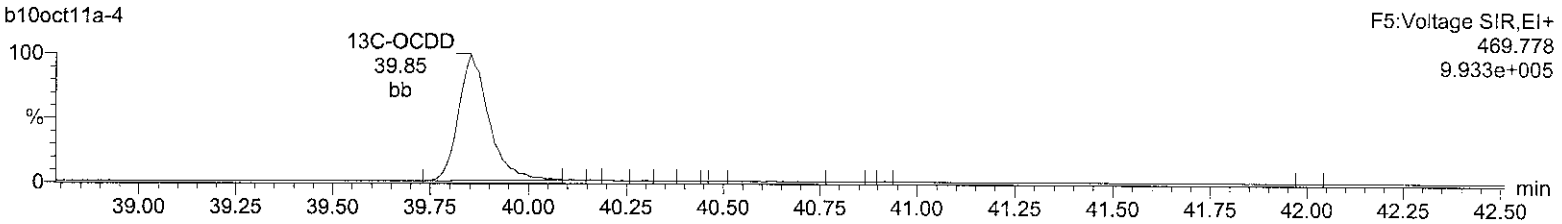
OCDF



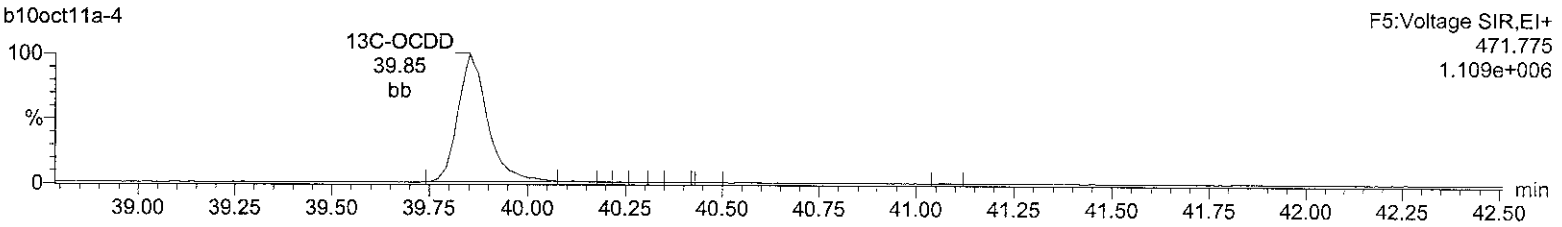
OCDF



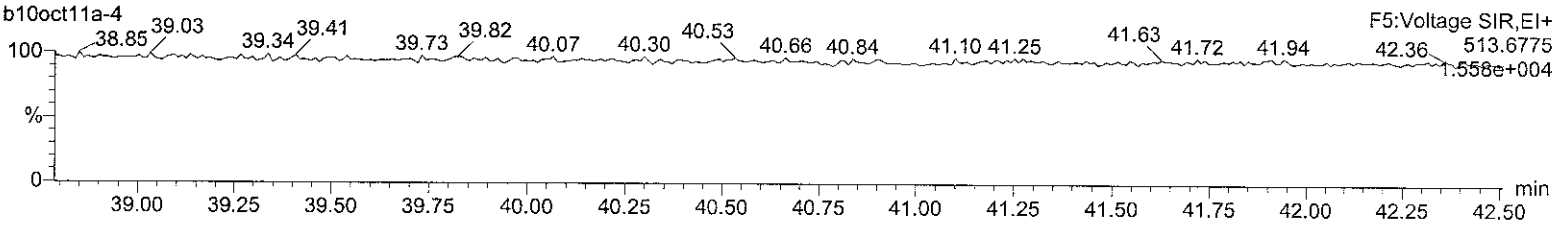
13C-OCDD



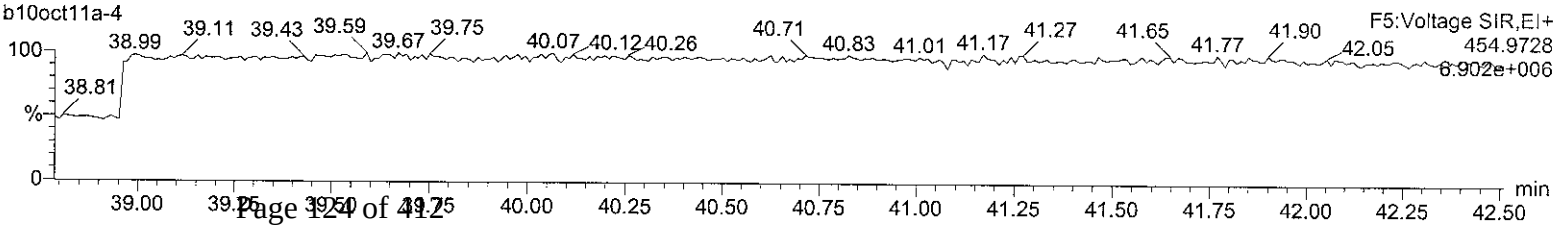
13C-OCDD



DeDPE



Lock Mass F5



Hi-Res Dioxins/Furans
Certificate of Analysis
Sample Summary

SDG Number:	**1109191**	**Client:**	**EMPI001**	**Project:**	**QC**
Lab Sample ID:	**12004405**			**Matrix:**	**WATER**
Client Sample:	**QC for batch 19665**				
Client ID:	**MB for batch 19665**			**Prep Basis:**	**As Received**
Batch ID:	**19685**	**Method:**	**SW846 8290A**		
Run Date:	**10/11/2011 02:06**	**Analyst:**	**MJC**	**Instrument:**	**HRP763**
Data File:	**b10oct11a_2-3**			**Dilution:**	**1**
Prep Batch:	**19665**	**Prep Method:**	**SW846 3520C**		
Prep Date:	**04-OCT-11**	**Aliquot:**	**1000 mL**		

CAS No.	Parmname	Qual	Result	EMPC	Units	EDL	PQL
1746-01-6	2,3,7,8-TCDD	U	2.18		pg/L	2.18	10.0
40321-76-4	1,2,3,7,8-PeCDD	U	1.05		pg/L	1.05	50.0
39227-28-6	1,2,3,4,7,8-HxCDD	U	1.95		pg/L	1.95	50.0
57653-85-7	1,2,3,6,7,8-HxCDD	U	1.81		pg/L	1.81	50.0
19408-74-3	1,2,3,7,8,9-HxCDD	U	2.02		pg/L	2.02	50.0
35822-46-9	1,2,3,4,6,7,8-HpCDD	U	2.32		pg/L	2.32	50.0
3268-87-9	1,2,3,4,6,7,8,9-OCDD	JK		4.24	pg/L	3.18	100
51207-31-9	2,3,7,8-TCDF	U	1.32		pg/L	1.32	10.0
57117-41-6	1,2,3,7,8-PeCDF	U	1.45		pg/L	1.45	50.0
57117-31-4	2,3,4,7,8-PeCDF	U	1.48		pg/L	1.48	50.0
70648-26-9	1,2,3,4,7,8-HxCDF	U	1.41		pg/L	1.41	50.0
57117-44-9	1,2,3,6,7,8-HxCDF	U	1.21		pg/L	1.21	50.0
60851-34-5	2,3,4,6,7,8-HxCDF	U	1.34		pg/L	1.34	50.0
72918-21-9	1,2,3,7,8,9-HxCDF	U	1.62		pg/L	1.62	50.0
67562-39-4	1,2,3,4,6,7,8-HpCDF	U	1.26		pg/L	1.26	50.0
55673-89-7	1,2,3,4,7,8,9-HpCDF	U	1.73		pg/L	1.73	50.0
39001-02-0	1,2,3,4,6,7,8,9-OCDF	U	2.28		pg/L	2.28	100
41903-57-5	Total Tetrachlorodibenzo-p-dioxin	U	2.18		pg/L	2.18	10.0
36088-22-9	Total Pentachlorodibenzo-p-dioxin	U	1.05		pg/L	1.05	50.0
34465-46-8	Total Hexachlorodibenzo-p-dioxin	U	1.81		pg/L	1.81	50.0
37871-00-4	Total Heptachlorodibenzo-p-dioxin	U	2.32		pg/L	2.32	50.0
30402-14-3	Total Tetrachlorodibenzofuran	U	1.32		pg/L	1.32	10.0
30402-15-4	Total Pentachlorodibenzofuran	U	1.45		pg/L	1.45	50.0
55684-94-1	Total Hexachlorodibenzofuran	U	1.21		pg/L	1.21	50.0
38998-75-3	Total Heptachlorodibenzofuran	U	1.26		pg/L	1.26	50.0
3333-30-0	TEQ WHO2005 ND=0		0.00	0.00127	pg/L		
3333-30-1	TEQ WHO2005 ND=0.5		2.52	2.52	pg/L		

Surrogate/Tracer recovery	Qual	Result	Nominal	Units	Recovery%	Acceptable Limits
13C-2,3,7,8-TCDD		1550	2000	pg/L	77.3	(40%-135%)
13C-1,2,3,7,8-PeCDD		1600	2000	pg/L	79.9	(40%-135%)
13C-1,2,3,6,7,8-HxCDD		1480	2000	pg/L	74.2	(40%-135%)
13C-1,2,3,4,6,7,8-HpCDD		2020	2000	pg/L	101	(40%-135%)
13C-OCDD		3960	4000	pg/L	99.1	(40%-135%)
13C-2,3,7,8-TCDF		1580	2000	pg/L	79.1	(40%-135%)
13C-1,2,3,7,8-PeCDF		1380	2000	pg/L	69.2	(40%-135%)
13C-1,2,3,6,7,8-HxCDF		1250	2000	pg/L	62.5	(40%-135%)
13C-1,2,3,4,6,7,8-HpCDF		1530	2000	pg/L	76.3	(40%-135%)

Comments:

J Value is estimated

K Estimated Maximum Possible Concentration

U Analyte was analyzed for , but not detected above the specified detection limit.

Quantify Sample Summary Report **MassLynx 4.1**
Method 8290 Quantification Report

Dataset: C:\MassLynx\Default.pro\Sample Results\8290-b10oct11a_2.qld

Last Altered: Tuesday, October 11, 2011 13:54:57 Eastern Standard Time
Printed: Tuesday, October 11, 2011 13:55:33 Eastern Standard Time

HMP
11Oct11

Method: C:\MassLynx\Default.pro\Methdb\CFA_EPA8290_101011.mdb 10 Oct 2011 14:05:54
Calibration: C:\MassLynx\Default.pro\Curvedb\8290-b01nov10b.cdb 02 Nov 2010 08:19:01

12004405-1 19685 HMS8290-1L

Name: b10oct11a_2-3, Date: 11-Oct-2011, Time: 02:06:09, ID: 12004352-1 MB, Description: 19684, Job: HMS8290_1L, Task: HRP763_1, User: MJC

19686 HMS8290TCL

	Name	Ion1Area	Ion2Area	Response	RT	RRT	RA	Fail?	pg/uL	EDL	Height1	Noise1	S/N1	Height2	Noise2	S/N2	M
1	2378-TCDD							NO		0.109		929			853		
2	12378-PeCDD							NO		0.0523		999			644		
3	123478-HxCDD							NO		0.0977		1313			1377		
4	123678-HxCDD							NO		0.0905		1313			1377		
5	123789-HxCDD							NO		0.101		1313			1377		
6	1234678-HpCDD							NO		0.116		1505			1313		
7	OCDD	3.37e2	2.89e2	6.26e2	39.90	1.001	1.17	YES	0.212	0.159	7.44e3	1341	5.5	5.66e3	950	6.0	MM
8	2378-TCDF							NO		0.0659		797			906		
9	12378-PeCDF							NO		0.0725		838			1081		
10	23478-PeCDF							NO		0.0741		838			1081		
11	123478-HxCDF							NO		0.0704		1216			1178		
12	123678-HxCDF							NO		0.0605		1216			1178		
13	234678-HxCDF							NO		0.0670		1216			1178		
14	123789-HxCDF							NO		0.0808		1216			1178		
15	1234678-HpCDF							NO		0.0630		1019			1036		
16	1234789-HpCDF							NO		0.0864		1019			1036		
17	OCDF	1.60e2	1.11e2	2.71e2	40.06	1.005	1.44	YES	0.074	0.114	4.27e3	1061	4.0	3.85e3	963	4.0	MM
18	13C-2378-TCDD	1.76e5	2.20e5	3.96e5	26.55	1.027	0.80	NO	77.284	0.222	1.79e6	2840	631.9	2.14e6	1624	1319.0	bb
19	13C-12378-PeCDD	2.11e5	1.36e5	3.47e5	32.06	1.240	1.55	NO	79.875	0.203	4.63e6	2154	2148.6	2.91e6	1314	2217.3	bb
20	13C-123678-HxCDD	2.06e5	1.64e5	3.69e5	34.27	0.995	1.26	NO	74.188	0.173	4.27e6	4581	933.0	3.43e6	2495	1376.7	bb
21	13C-1234678-HpCDD	1.86e5	1.76e5	3.61e5	36.77	1.068	1.06	NO	100.828	0.203	3.11e6	3127	995.0	2.91e6	2835	1025.1	bb
22	13C-OCDD	2.80e5	3.12e5	5.93e5	39.87	1.158	0.90	NO	198.110	0.159	3.42e6	2329	1468.3	3.75e6	1570	2390.1	bb
23	13C-2378-TCDF	2.90e5	3.69e5	6.59e5	25.65	0.992	0.79	NO	79.148	0.116	2.89e6	1799	1607.4	3.59e6	2001	1795.7	bb
24	13C-12378-PeCDF	3.25e5	2.10e5	5.35e5	31.02	1.200	1.55	NO	69.159	0.162	4.30e6	2531	1699.7	2.74e6	2393	1143.6	bb
25	13C-123678-HxCDF	1.57e5	3.00e5	4.56e5	33.70	0.978	0.52	NO	62.514	0.0960	3.21e6	2794	1150.2	6.41e6	2959	2168.0	bb
26	13C-1234678-HpCDF	1.14e5	2.55e5	3.69e5	35.82	1.040	0.45	NO	76.304	0.114	1.98e6	2173	909.1	4.56e6	2364	1928.6	bb
27	13C-1234-TCDD	2.04e5	2.53e5	4.57e5	25.84	0.000	0.81	NO	100.000	0.249	2.00e6	2840	704.6	2.45e6	1624	1507.3	bb
28	13C-123789-HxCDD	2.49e5	1.99e5	4.48e5	34.45	0.000	1.25	NO	100.000	0.193	5.11e6	4581	1115.1	4.01e6	2495	1605.3	bb
29	37Cl-2378-TCDD (SS)									0.0554		944					
30	13C-23478-PeCDF (SS)	8.57e2	5.35e2	1.39e3	31.84	1.026	1.60	NO	0.279	0.186	1.56e4	2531	6.2	1.19e4	2393	5.0	bb

Quantify Totals Report MassLynx 4.1
Method 8290 Quantification Report

Dataset: C:\MassLynx\Default.pro\Sample Results\8290-b10oct11a_2.qld

Last Altered: Tuesday, October 11, 2011 13:54:57 Eastern Standard Time
Printed: Tuesday, October 11, 2011 13:55:33 Eastern Standard Time

Method: C:\MassLynx\Default.pro\Methdb\CFA_EPA8290_101011.mdb 10 Oct 2011 14:05:54
Calibration: C:\MassLynx\Default.pro\Curvedb\8290-b01nov10b.cdb 02 Nov 2010 08:19:01

Name: b10oct11a_2-3, Date: 11-Oct-2011, Time: 02:06:09, ID: 12004352-1 MB, Description: 19684, Job: HMS8290_1L, Task: HRP763_1, User: MJC

TD

	Name	Ion1Area	Ion2Area	Response	RT	RA	Fail?	pg/uL	EDL	Height1	Noise1	S/N1	Height2	Noise2	S/N2	M
1	Total-tetradioxins	5.32e1	8.95e1	1.43e2	27.74	0.59	YES	0.036	0.109	1.74e3	929	1.9	1.30e3	853	1.5	db
2	Total-tetradioxins	1.89e2	7.51e1	2.64e2	25.65	2.52	YES	0.066	0.109	3.10e3	929	3.3	2.23e3	853	2.6	db
3	Total-tetradioxins	6.19e1	7.71e1	1.39e2	24.32	0.80	NO	0.035	0.109	1.15e3	929	1.2	1.20e3	853	1.4	bb

PD

	Name	Ion1Area	Ion2Area	Response	RT	RA	Fail?	pg/uL	EDL	Height1	Noise1	S/N1	Height2	Noise2	S/N2	M
1																

HD

	Name	Ion1Area	Ion2Area	Response	RT	RA	Fail?	pg/uL	EDL	Height1	Noise1	S/N1	Height2	Noise2	S/N2	M
1	Total-hexadioxins	3.16e2	9.40e1	4.10e2	33.70	3.36	YES	0.122	0.0963	5.35e3	1313	4.1	2.12e3	1377	1.5	bb

HPD

	Name	Ion1Area	Ion2Area	Response	RT	RA	Fail?	pg/uL	EDL	Height1	Noise1	S/N1	Height2	Noise2	S/N2	M
1	Total-heptadioxins	4.63e2	1.19e2	5.81e2	35.82	3.89	YES	0.160	0.116	9.15e3	1505	6.1	3.17e3	1313	2.4	bb

TF

	Name	Ion1Area	Ion2Area	Response	RT	RA	Fail?	pg/uL	EDL	Height1	Noise1	S/N1	Height2	Noise2	S/N2	M
1	Total-tetrafurans	5.55e1	6.15e1	1.17e2	28.36	0.90	YES	0.018	0.0659	1.01e3	797	1.3	1.32e3	906	1.5	bb
2	Total-tetrafurans	5.20e1	7.40e1	1.26e2	23.98	0.70	NO	0.019	0.0659	9.93e2	797	1.2	2.24e3	906	2.5	db
3	Total-tetrafurans	7.33e1	6.16e1	1.35e2	23.91	1.19	YES	0.021	0.0659	1.31e3	797	1.6	1.39e3	906	1.5	bd

PF1

	Name	Ion1Area	Ion2Area	Response	RT	RA	Fail?	pg/uL	EDL	Height1	Noise1	S/N1	Height2	Noise2	S/N2	M
1																

Quantify Totals Report MassLynx 4.1
Method 8290 Quantification Report

Dataset: C:\MassLynx\Default.pro\Sample Results\8290-b10oct11a_2.qld

Last Altered: Tuesday, October 11, 2011 13:54:57 Eastern Standard Time
Printed: Tuesday, October 11, 2011 13:55:33 Eastern Standard Time

Name: b10oct11a_2-3, Date: 11-Oct-2011, Time: 02:06:09, ID: 12004352-1 MB, Description: 19684, Job: HMS8290_1L, Task: HRP763_1, User: MJC

LF

	Name	Ion1Area	Ion2Area	Response	RT	RA	Fail?	pg/uL	EDL	Height1	Noise1	S/N1	Height2	Noise2	S/N2	M
1																

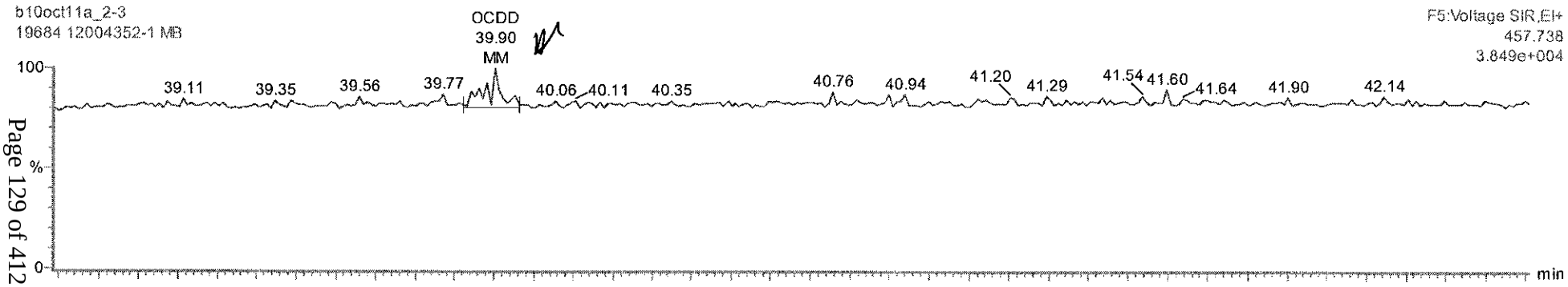
HF

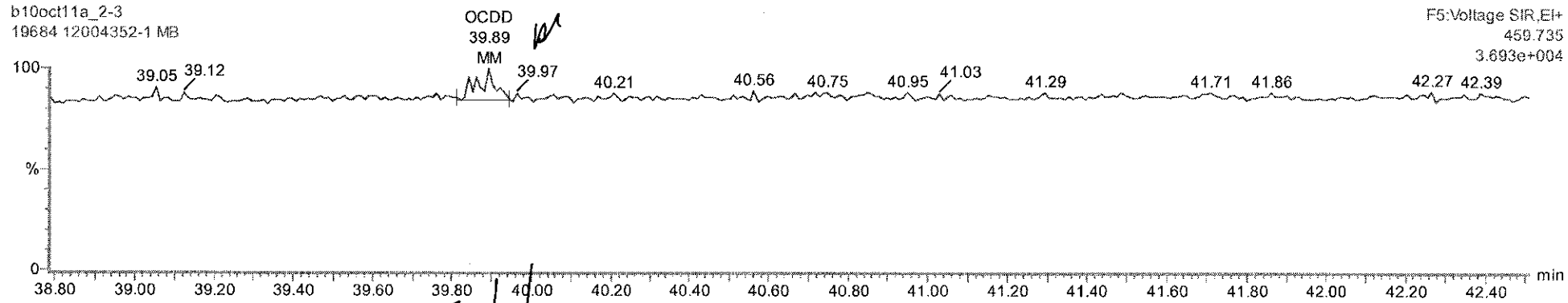
	Name	Ion1Area	Ion2Area	Response	RT	RA	Fail?	pg/uL	EDL	Height1	Noise1	S/N1	Height2	Noise2	S/N2	M
1																

HPF

	Name	Ion1Area	Ion2Area	Response	RT	RA	Fail?	pg/uL	EDL	Height1	Noise1	S/N1	Height2	Noise2	S/N2	M
1																

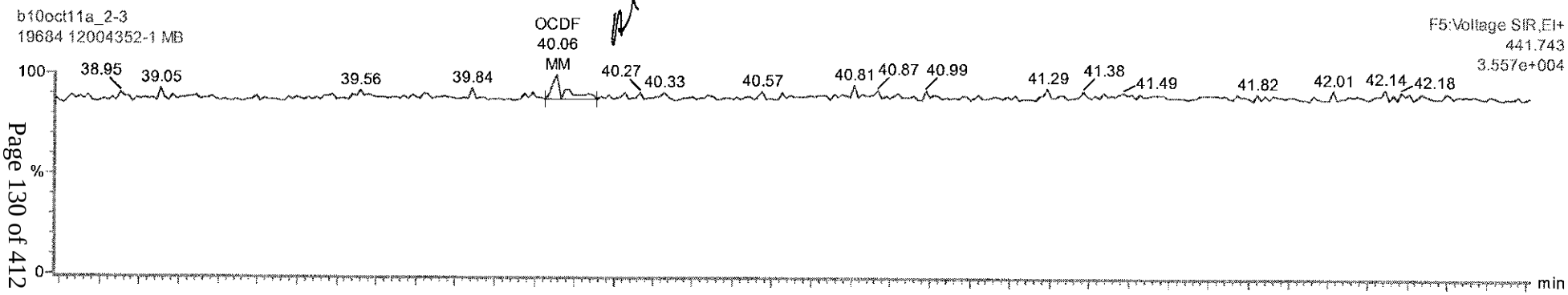
MANUAL INTEGRATION

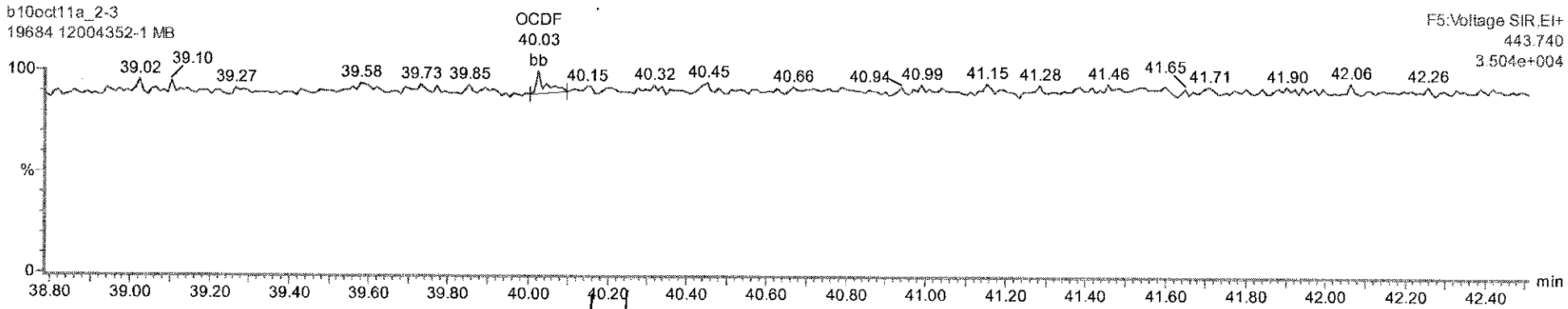




HMP 11Oct11

MANUAL INTEGRATION





10/10/11

1hmp 11Oct11

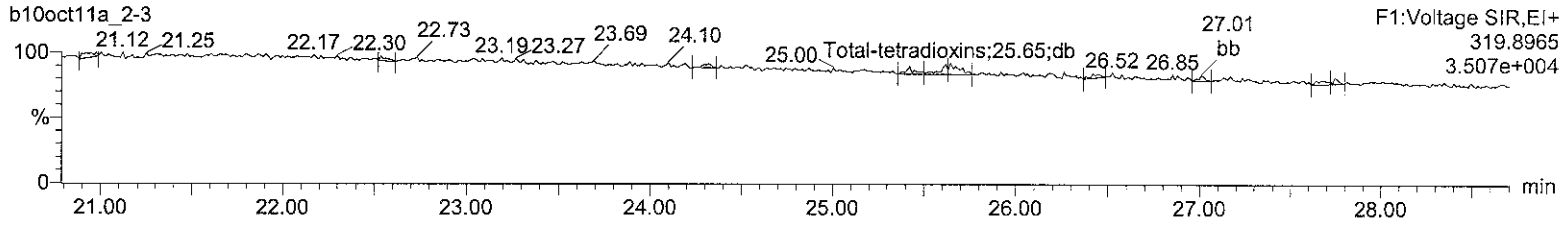
Quantify Sample Report **MassLynx 4.1**
Method 8290 Quantification Report

Dataset: C:\MassLynx\Default.pro\Sample Results\8290-b10oct11a_2.qld

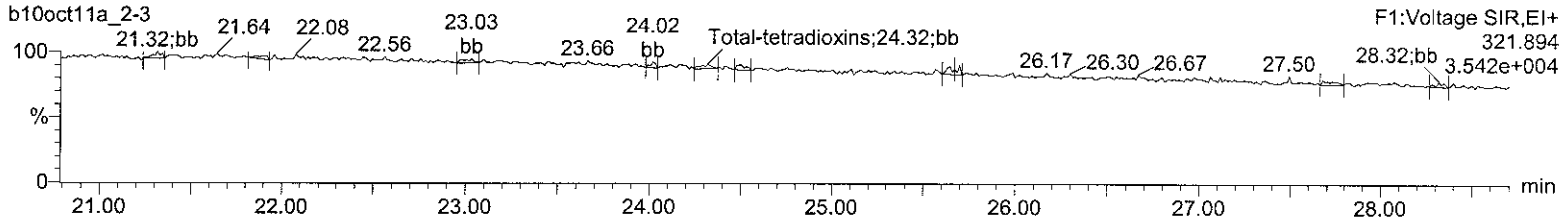
Last Altered: Tuesday, October 11, 2011 13:39:25 Eastern Standard Time
Printed: Tuesday, October 11, 2011 13:40:15 Eastern Standard Time

Name: b10oct11a_2-3, Date: 11-Oct-2011, Time: 02:06:09, ID: 12004352-1 MB, Description: 19684, Job: HMS8290_1L, Task: HRP763_1, User: MJC

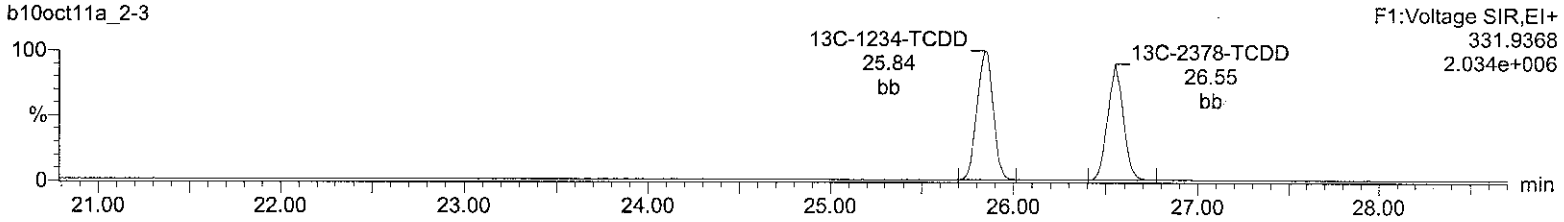
Total-tetradioxins



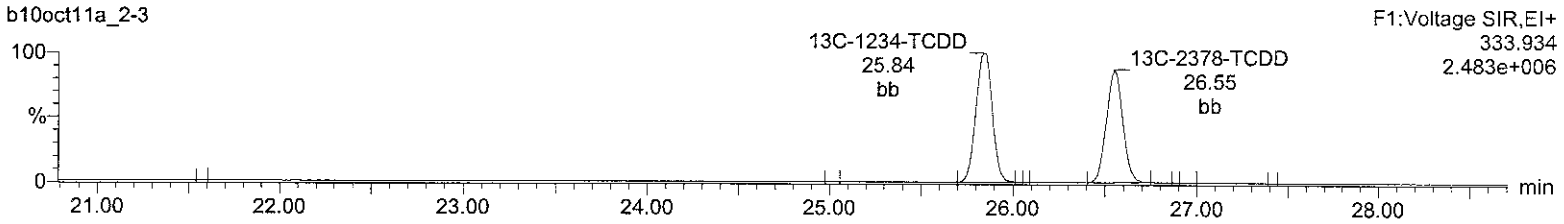
Total-tetradioxins



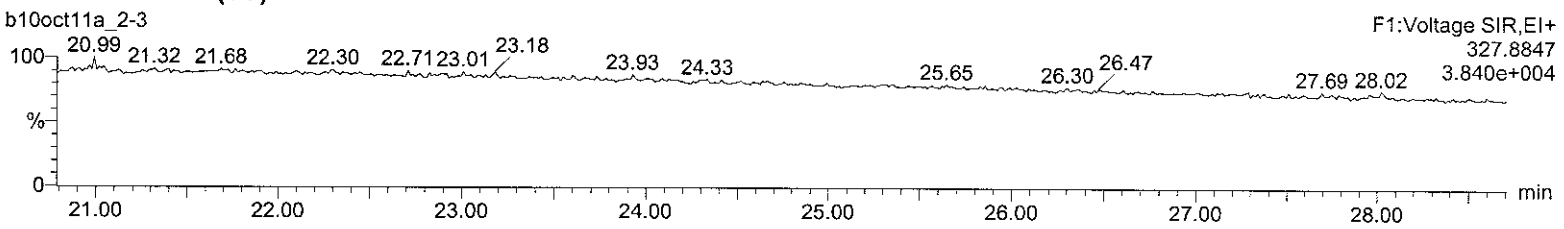
13C-2378-TCDD



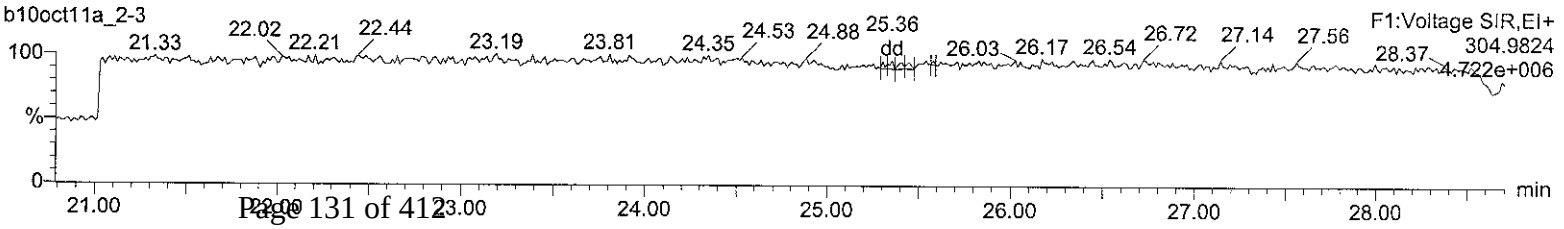
13C-2378-TCDD



37Cl-2378-TCDD (SS)



Lock Mass F1



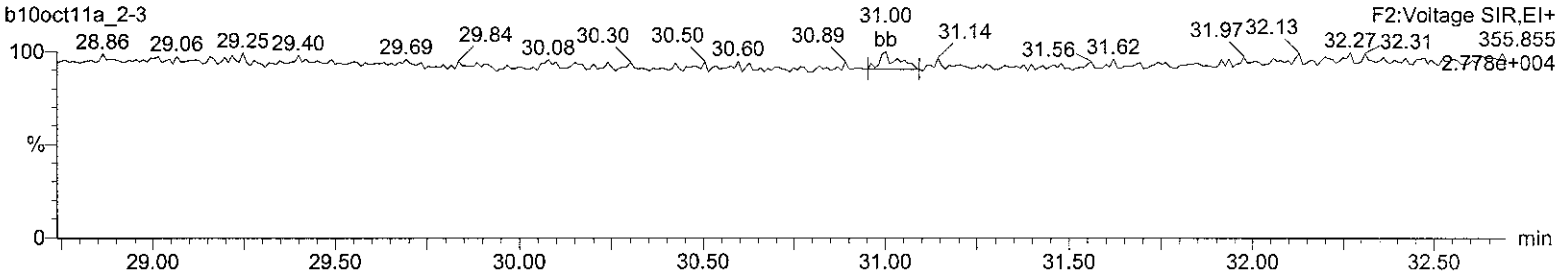
Quantify Sample Report **MassLynx 4.1**
Method 8290 Quantification Report

Dataset: C:\MassLynx\Default.pro\Sample Results\8290-b10oct11a_2.qld

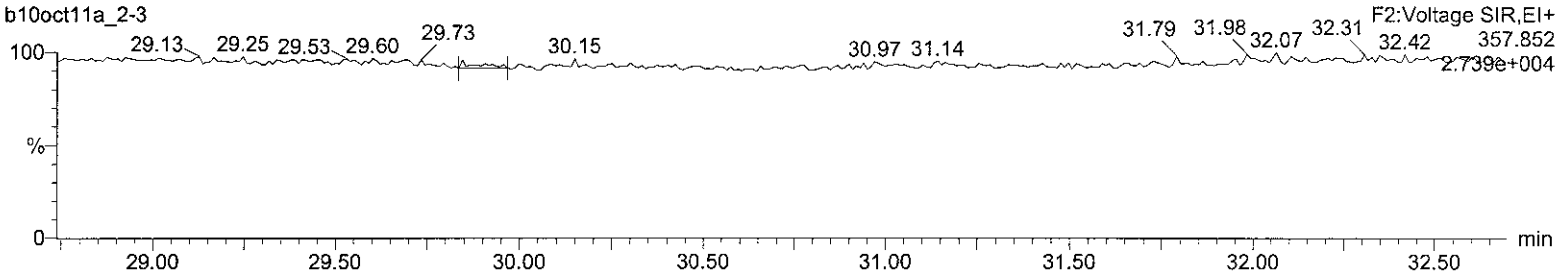
Last Altered: Tuesday, October 11, 2011 13:39:25 Eastern Standard Time
Printed: Tuesday, October 11, 2011 13:40:15 Eastern Standard Time

Name: b10oct11a_2-3, Date: 11-Oct-2011, Time: 02:06:09, ID: 12004352-1 MB, Description: 19684, Job: HMS8290_1L, Task: HRP763_1, User: MJC

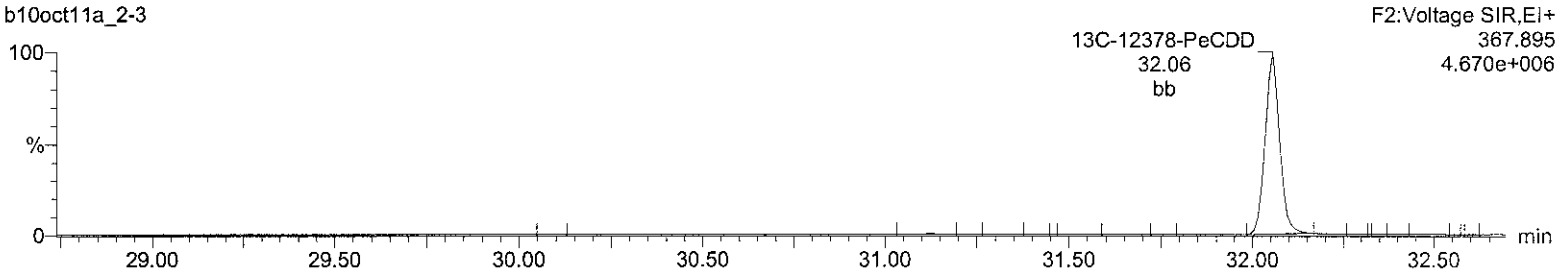
Total-pentadioxins



Total-pentadioxins



13C-12378-PeCDD



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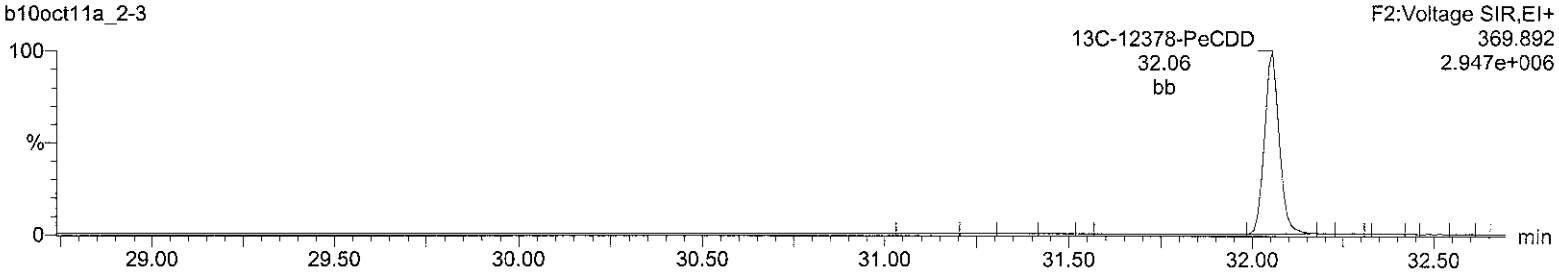
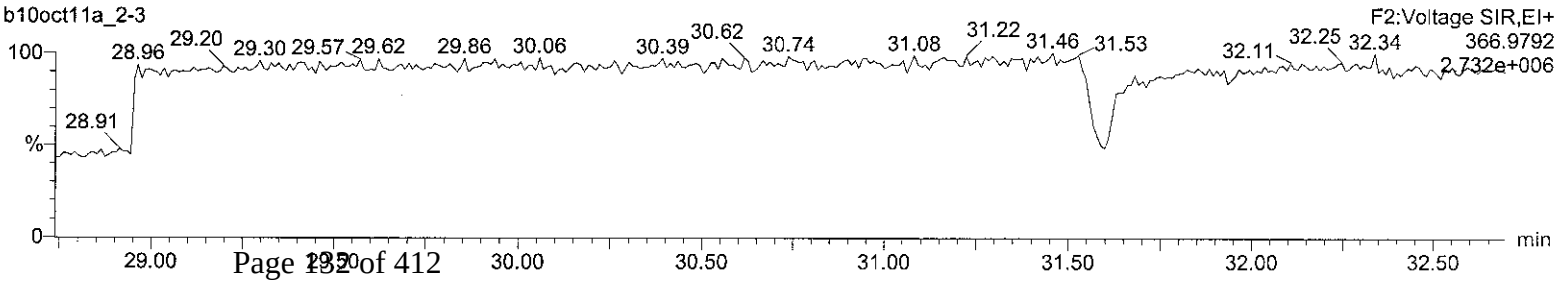


Lock Mass F2



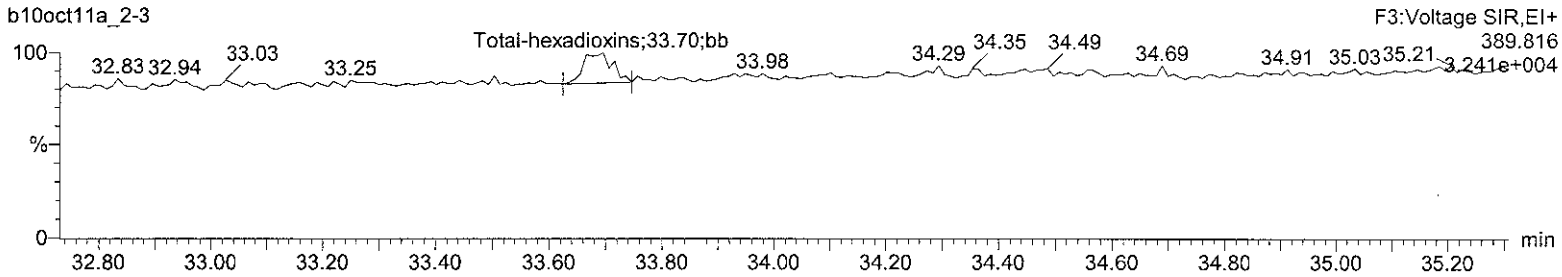
Quantify Sample Report **MassLynx 4.1**
Method 8290 Quantification Report

Dataset: C:\MassLynx\Default.pro\Sample Results\8290-b10oct11a_2.qld

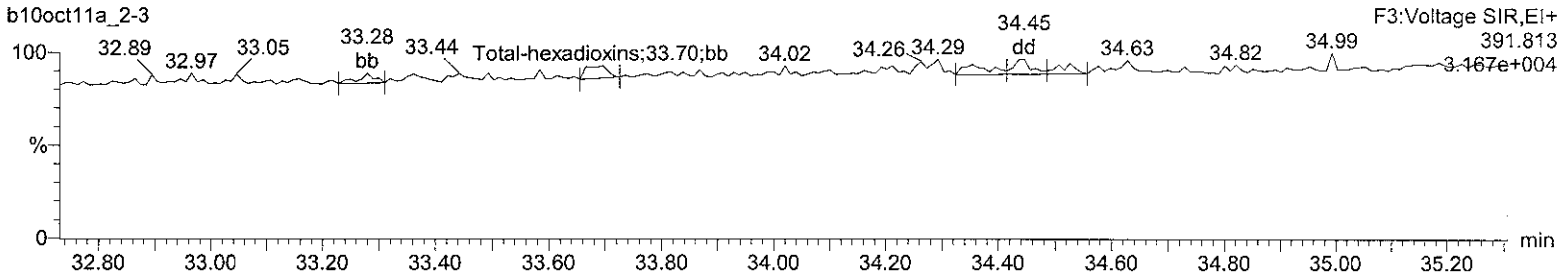
Last Altered: Tuesday, October 11, 2011 13:39:25 Eastern Standard Time
Printed: Tuesday, October 11, 2011 13:40:15 Eastern Standard Time

Name: b10oct11a_2-3, Date: 11-Oct-2011, Time: 02:06:09, ID: 12004352-1 MB, Description: 19684, Job: HMS8290_1L, Task: HRP763_1, User: MJC

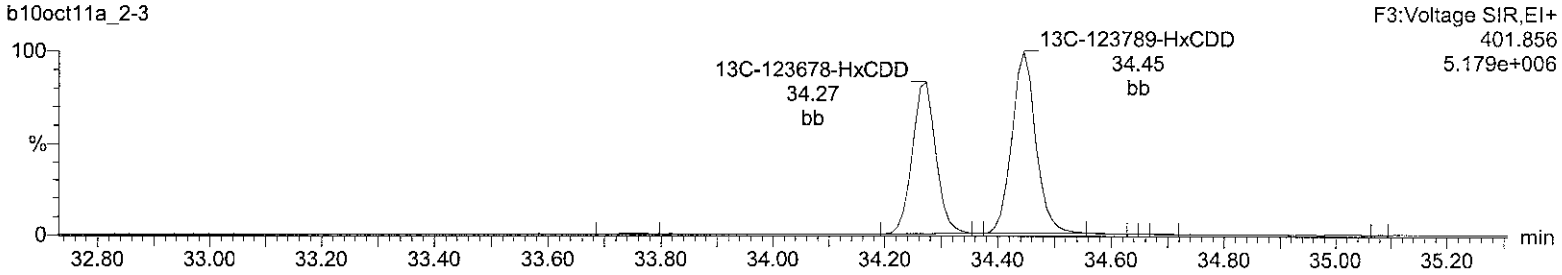
Total-hexadioxins



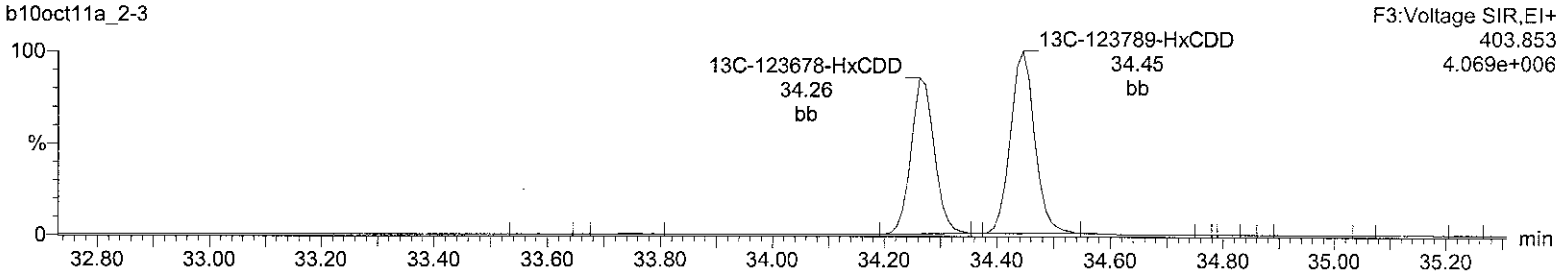
Total-hexadioxins



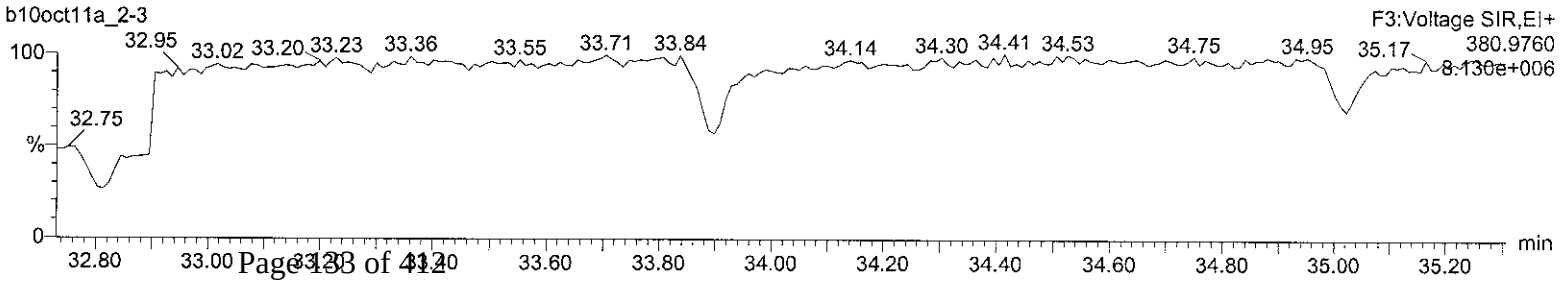
13C-123678-HxCDD



13C-123678-HxCDD



Lock Mass F3



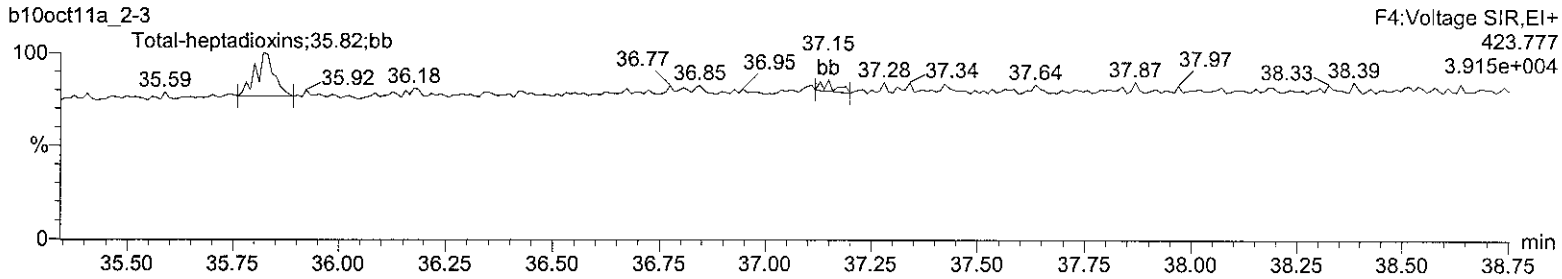
Quantify Sample Report **MassLynx 4.1**
Method 8290 Quantification Report

Dataset: C:\MassLynx\Default.pro\Sample Results\8290-b10oct11a_2.qld

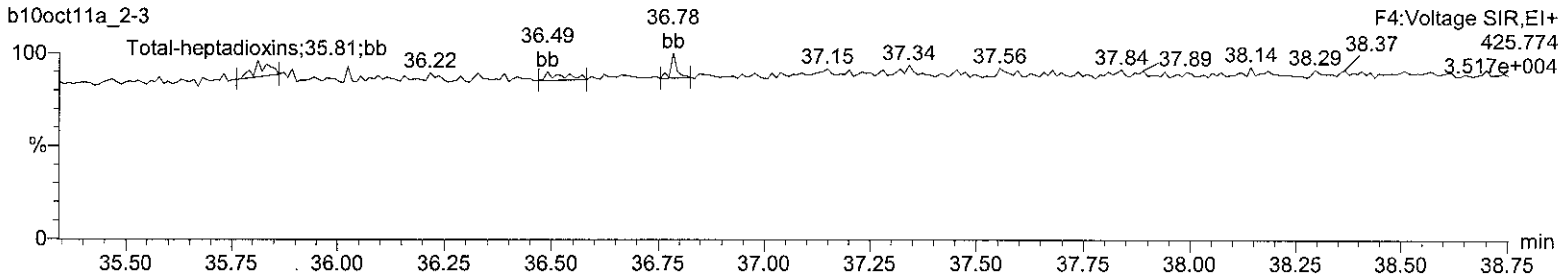
Last Altered: Tuesday, October 11, 2011 13:39:25 Eastern Standard Time
Printed: Tuesday, October 11, 2011 13:40:15 Eastern Standard Time

Name: b10oct11a_2-3, Date: 11-Oct-2011, Time: 02:06:09, ID: 12004352-1 MB, Description: 19684, Job: HMS8290_1L, Task: HRP763_1, User: MJC

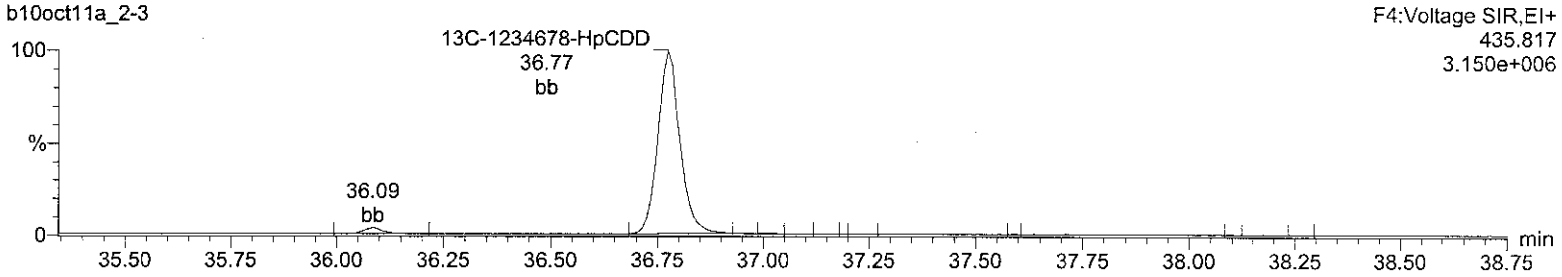
Total-heptadioxins



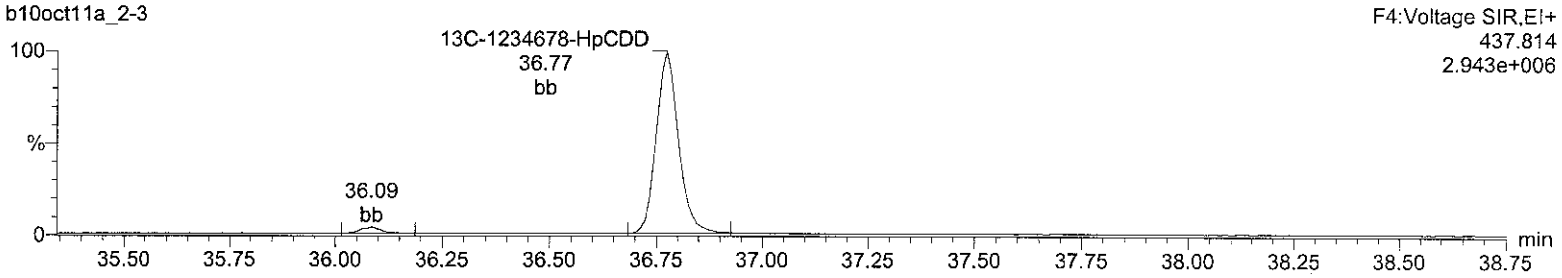
Total-heptadioxins



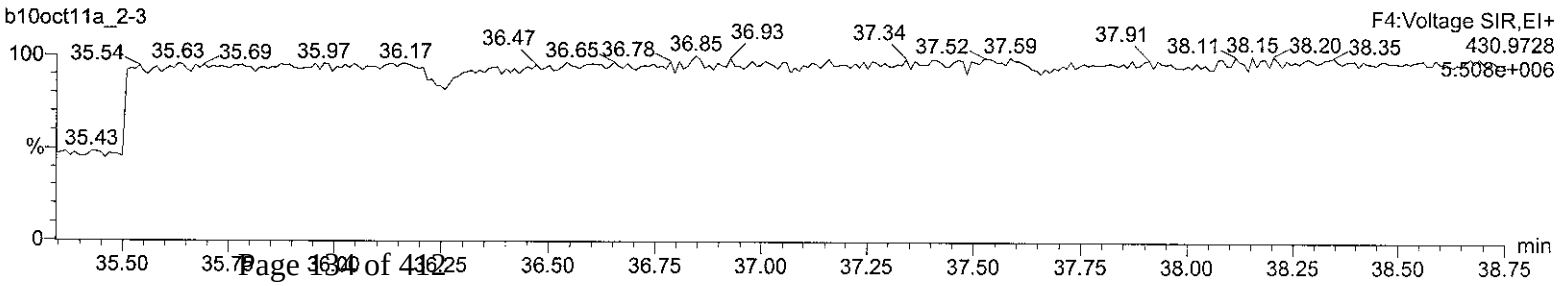
13C-1234678-HpCDD



13C-1234678-HpCDD



Lock Mass F4



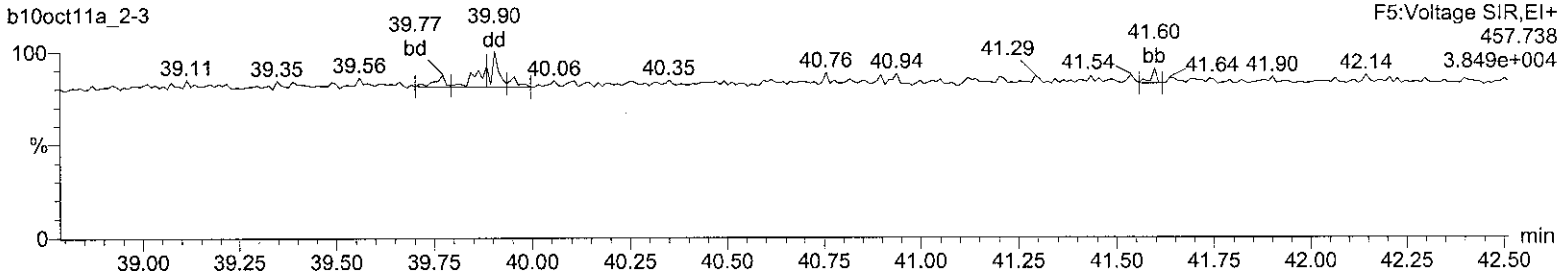
Quantify Sample Report **MassLynx 4.1**
Method 8290 Quantification Report

Dataset: C:\MassLynx\Default.pro\Sample Results\8290-b10oct11a_2.qld

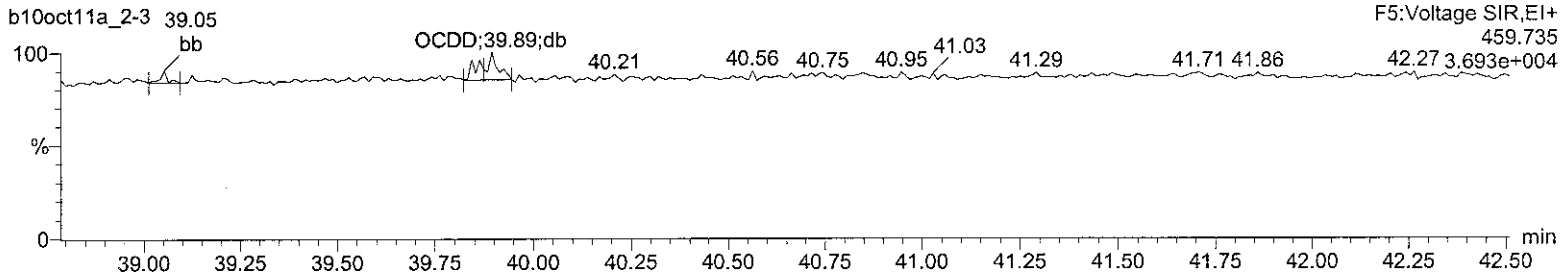
Last Altered: Tuesday, October 11, 2011 13:39:25 Eastern Standard Time
Printed: Tuesday, October 11, 2011 13:40:15 Eastern Standard Time

Name: b10oct11a_2-3, Date: 11-Oct-2011, Time: 02:06:09, ID: 12004352-1 MB, Description: 19684, Job: HMS8290_1L, Task: HRP763_1, User: MJC

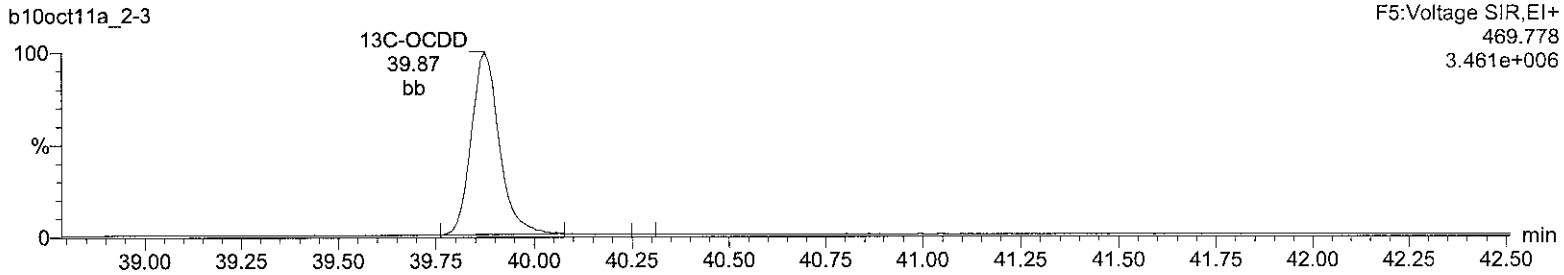
OCDD



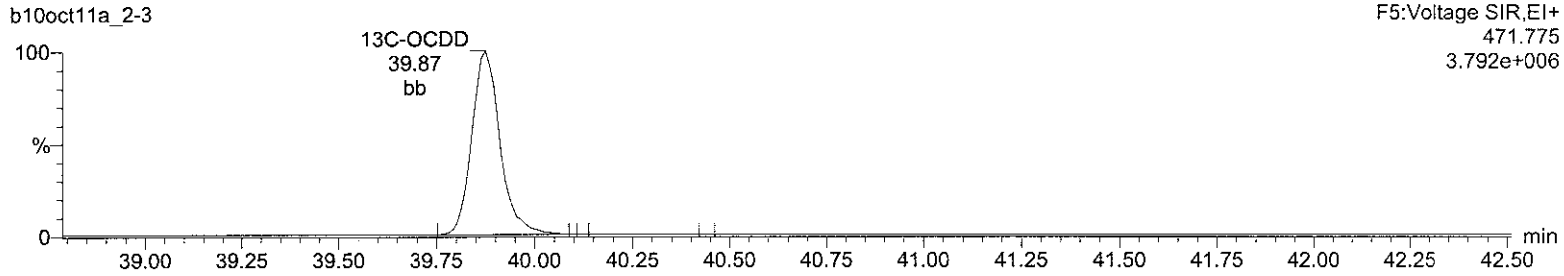
OCDD



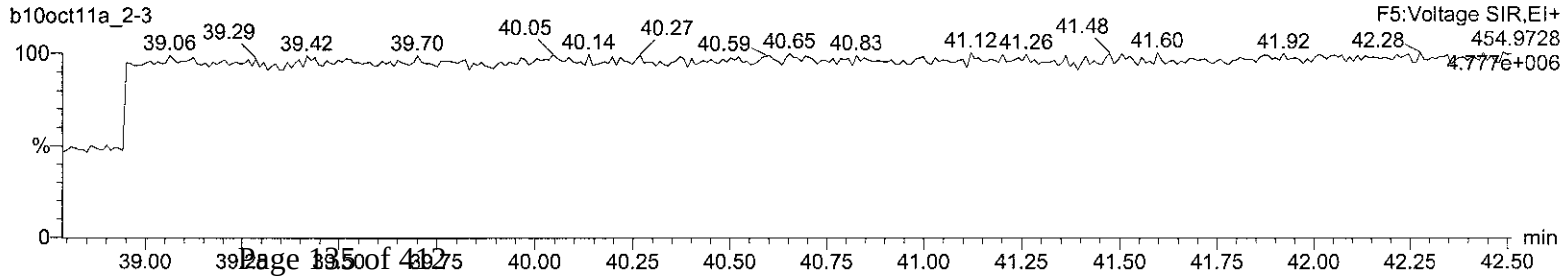
13C-OCDD



13C-OCDD



Lock Mass F5



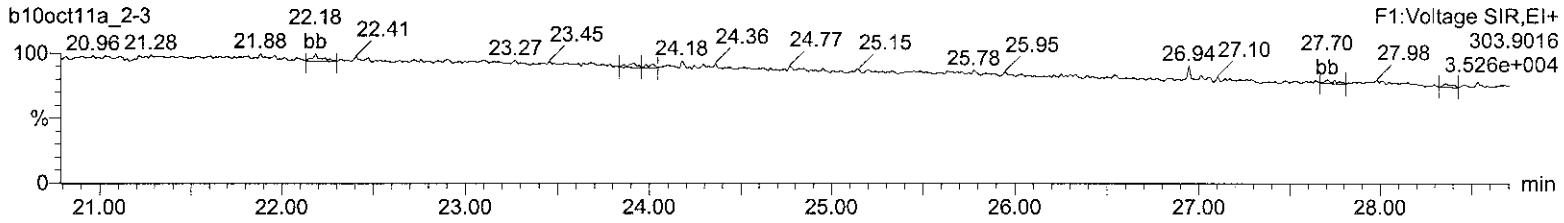
Quantify Sample Report **MassLynx 4.1**
Method 8290 Quantification Report

Dataset: C:\MassLynx\Default.pro\Sample Results\8290-b10oct11a_2.qld

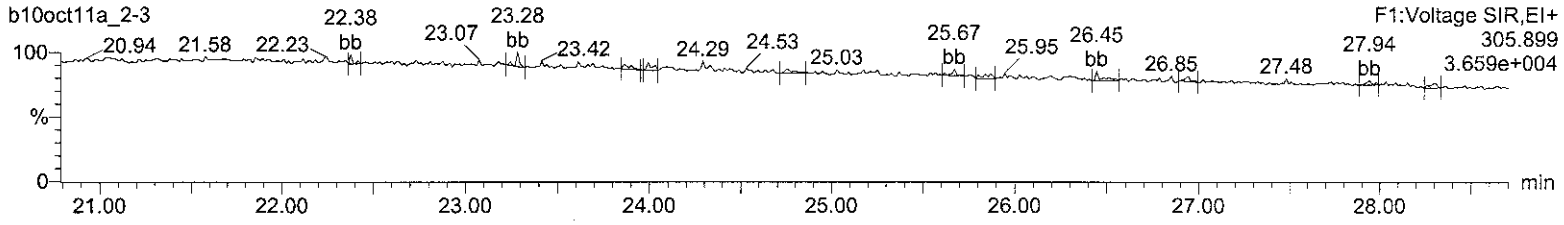
Last Altered: Tuesday, October 11, 2011 13:39:25 Eastern Standard Time
Printed: Tuesday, October 11, 2011 13:40:15 Eastern Standard Time

Name: b10oct11a_2-3, Date: 11-Oct-2011, Time: 02:06:09, ID: 12004352-1 MB, Description: 19684, Job: HMS8290_1L, Task: HRP763_1, User: MJC

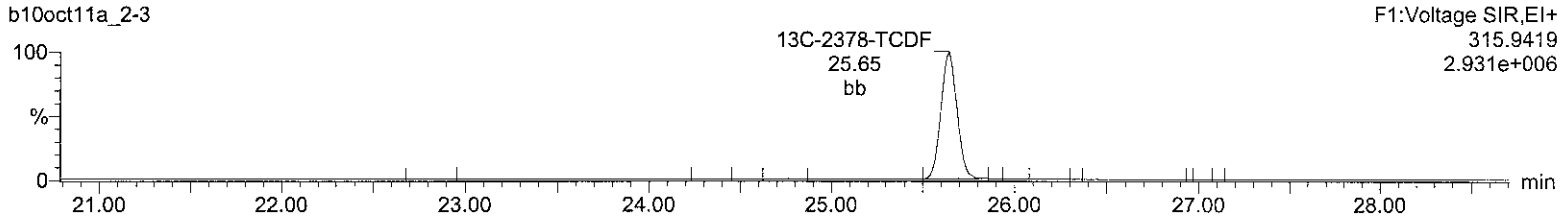
Total-tetrafurans



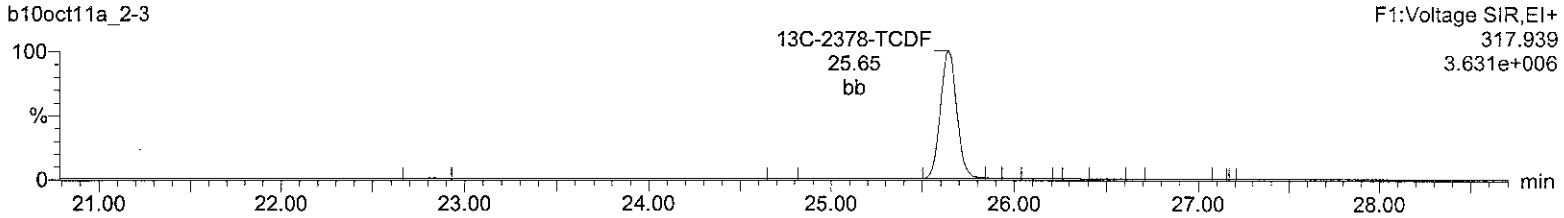
Total-tetrafurans



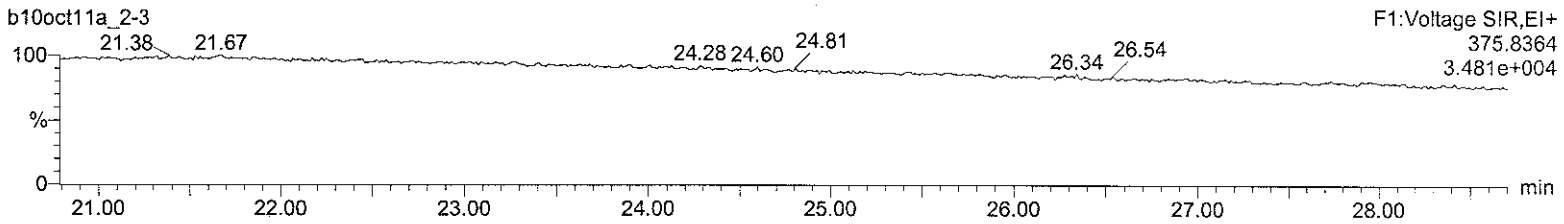
13C-2378-TCDF



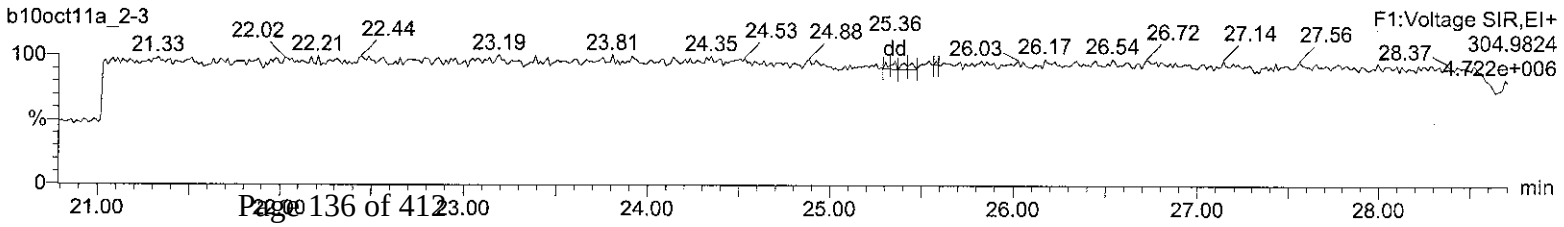
13C-2378-TCDF



HxDPE



Lock Mass F1



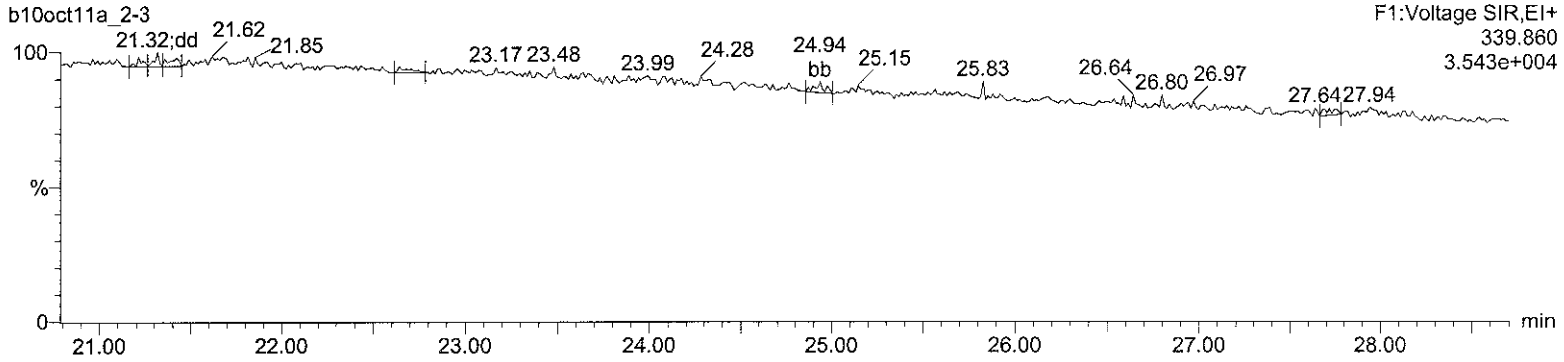
Quantify Sample Report **MassLynx 4.1**
Method 8290 Quantification Report

Dataset: C:\MassLynx\Default.pro\Sample Results\8290-b10oct11a_2.qld

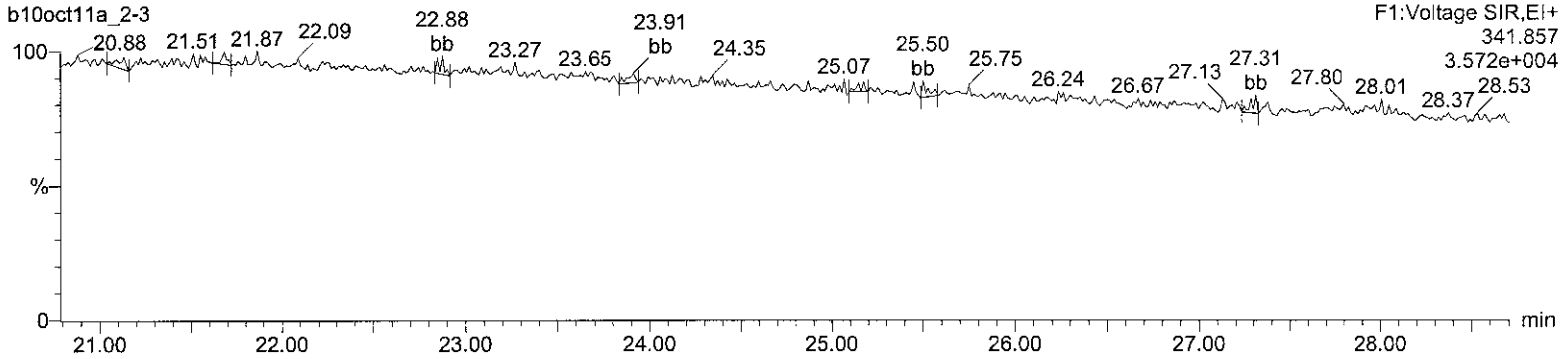
Last Altered: Tuesday, October 11, 2011 13:39:25 Eastern Standard Time
Printed: Tuesday, October 11, 2011 13:40:15 Eastern Standard Time

Name: b10oct11a_2-3, Date: 11-Oct-2011, Time: 02:06:09, ID: 12004352-1 MB, Description: 19684, Job: HMS8290_1L, Task: HRP763_1, User: MJC

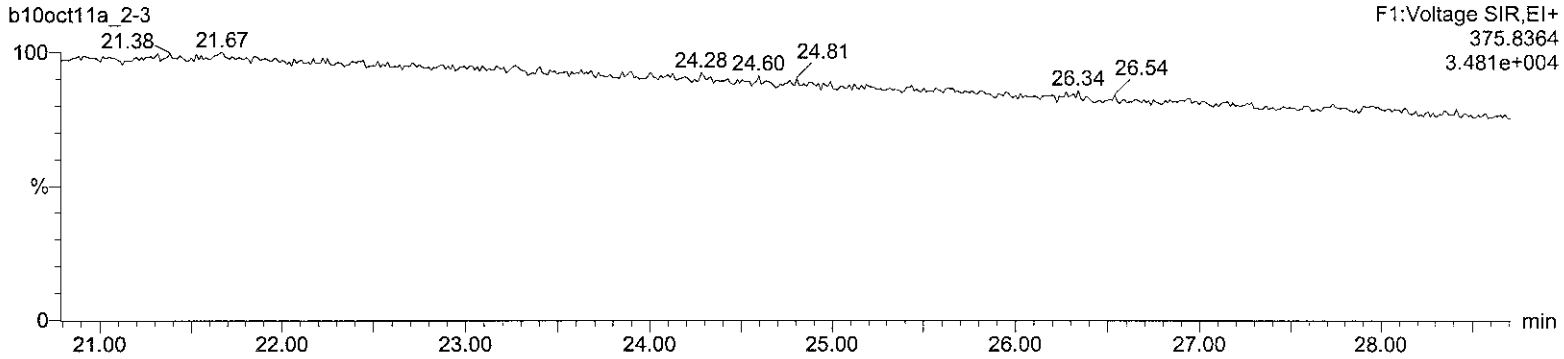
Total-pentafurans (F1)



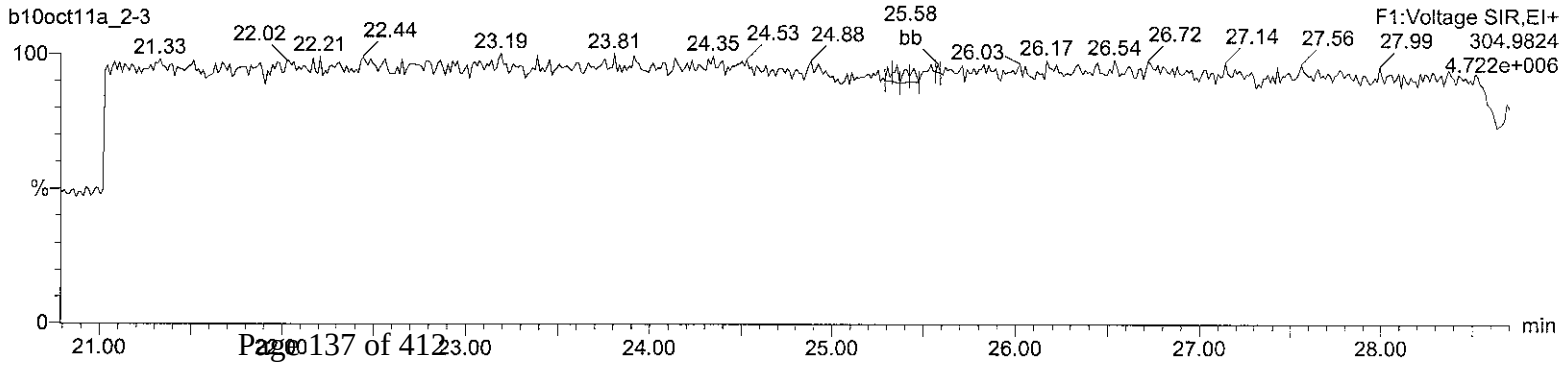
Total-pentafurans (F1)



HxDPE



Lock Mass F1



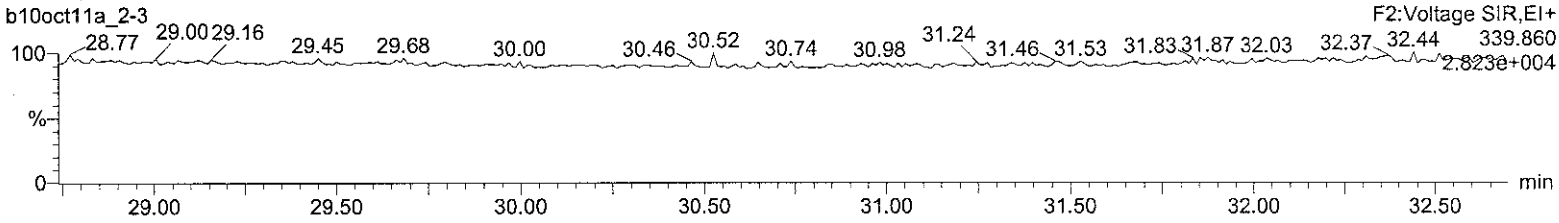
Quantify Sample Report **MassLynx 4.1**
Method 8290 Quantification Report

Dataset: C:\MassLynx\Default.pro\Sample Results\8290-b10oct11a_2.qld

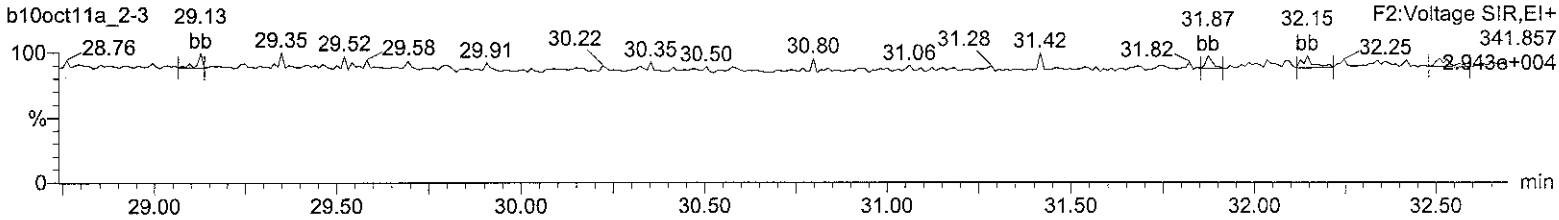
Last Altered: Tuesday, October 11, 2011 13:39:25 Eastern Standard Time
Printed: Tuesday, October 11, 2011 13:40:15 Eastern Standard Time

Name: b10oct11a_2-3, Date: 11-Oct-2011, Time: 02:06:09, ID: 12004352-1 MB, Description: 19684, Job: HMS8290_1L, Task: HRP763_1, User: MJC

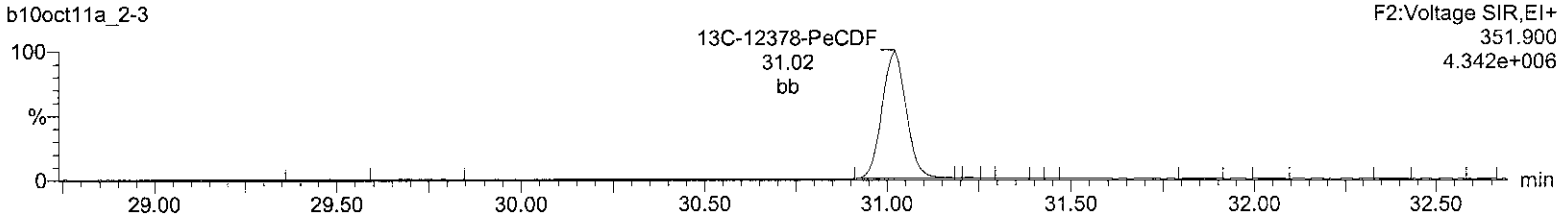
Total-pentafurans



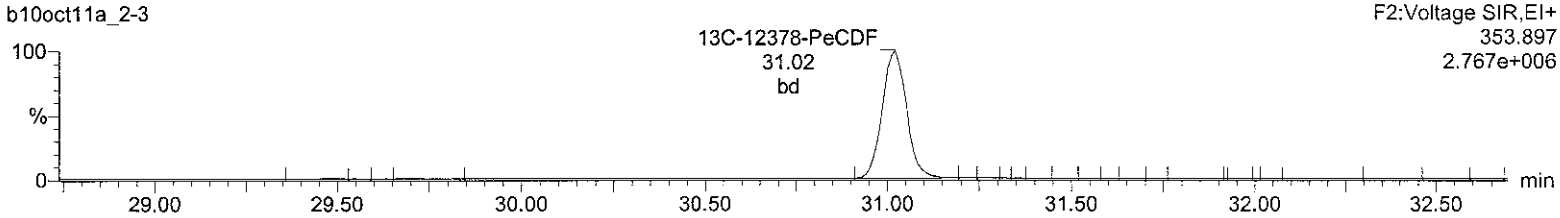
Total-pentafurans



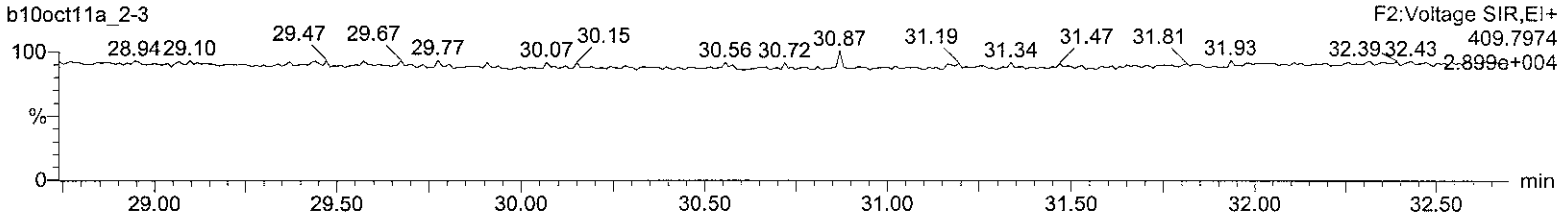
13C-12378-PeCDF



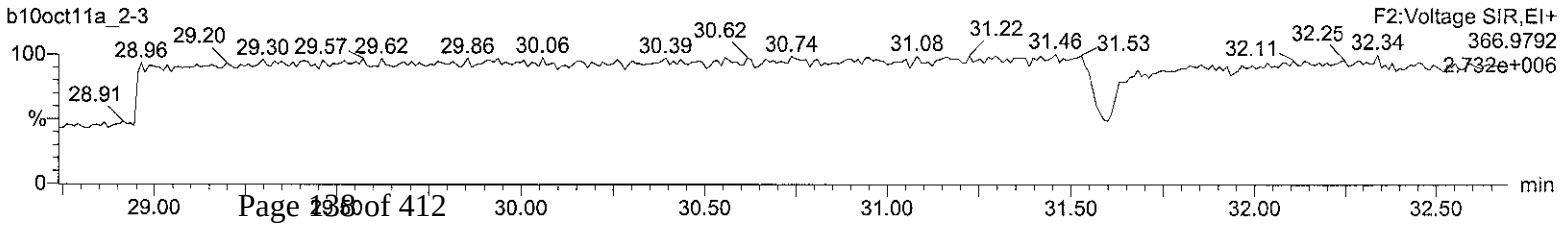
13C-12378-PeCDF



HpDPE



Lock Mass F2



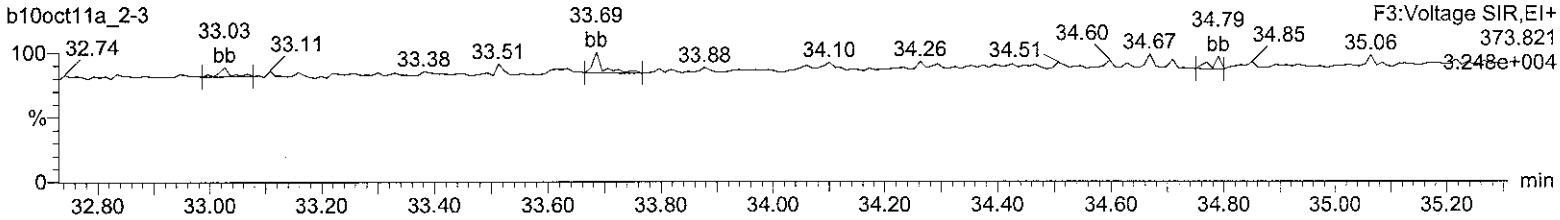
Quantify Sample Report **MassLynx 4.1**
Method 8290 Quantification Report

Dataset: C:\MassLynx\Default.pro\Sample Results\8290-b10oct11a_2.qld

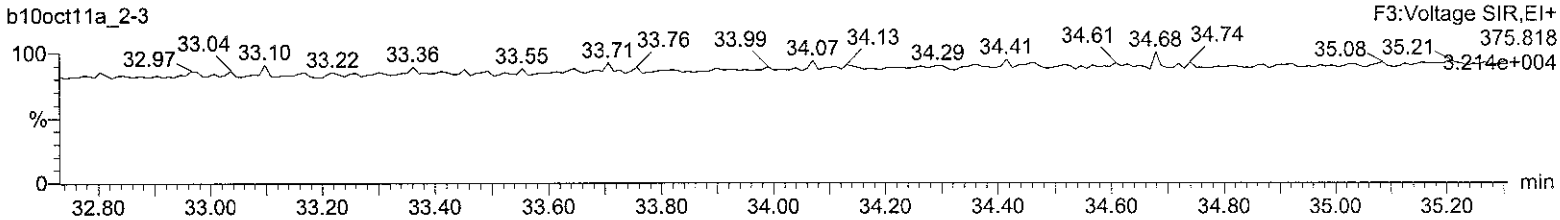
Last Altered: Tuesday, October 11, 2011 13:39:25 Eastern Standard Time
Printed: Tuesday, October 11, 2011 13:40:15 Eastern Standard Time

Name: b10oct11a_2-3, Date: 11-Oct-2011, Time: 02:06:09, ID: 12004352-1 MB, Description: 19684, Job: HMS8290_1L, Task: HRP763_1, User: MJC

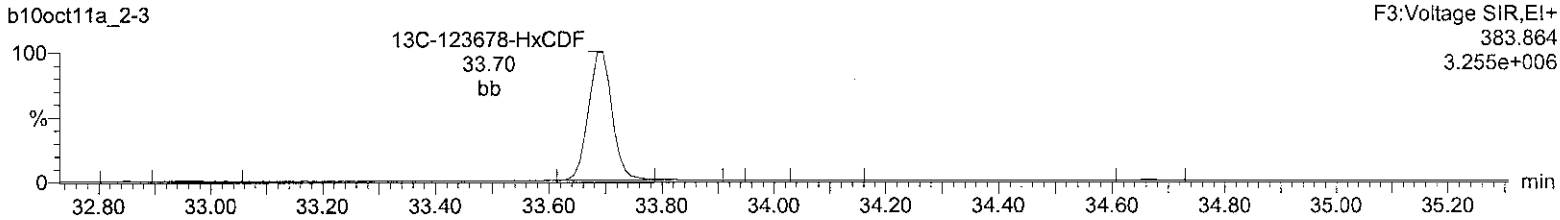
Total-hexafurans



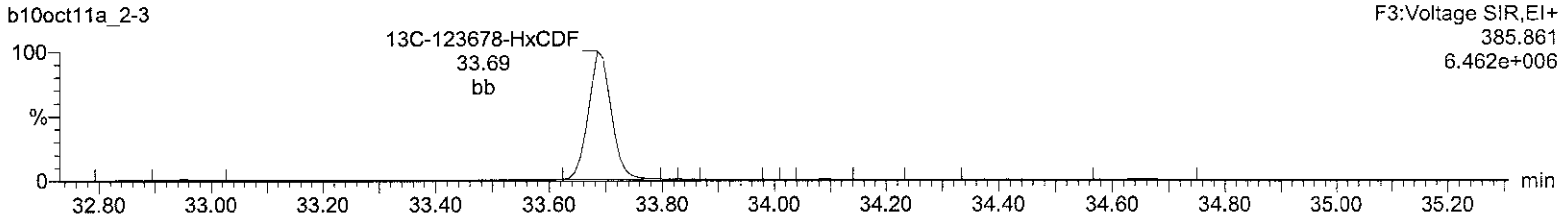
Total-hexafurans



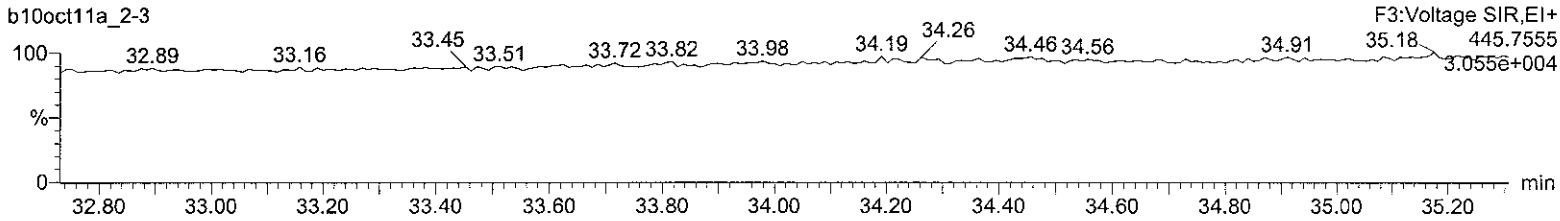
13C-123678-HxCDF



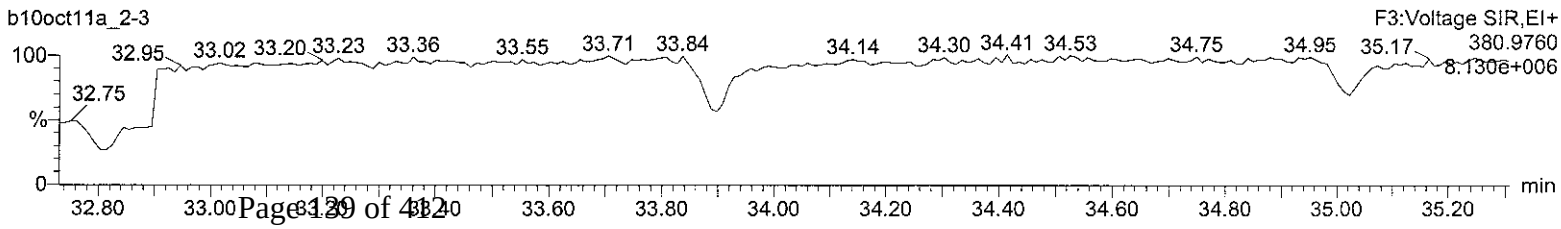
13C-123678-HxCDF



OcDPE



Lock Mass F3



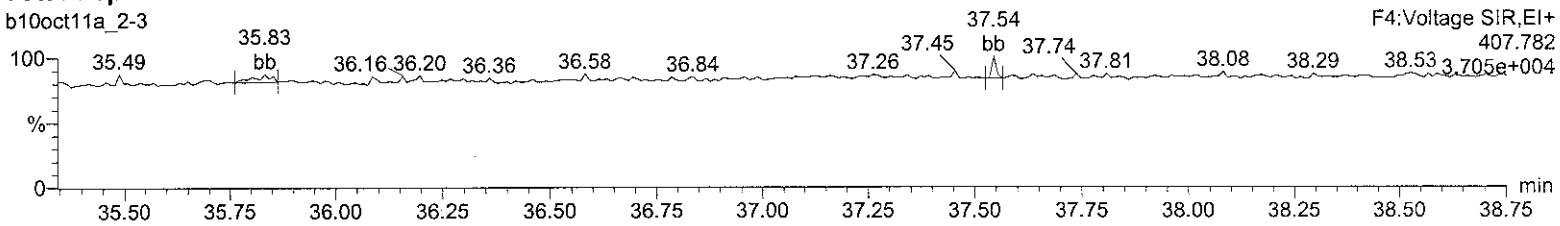
Quantify Sample Report **MassLynx 4.1**
Method 8290 Quantification Report

Dataset: C:\MassLynx\Default.pro\Sample Results\8290-b10oct11a_2.qld

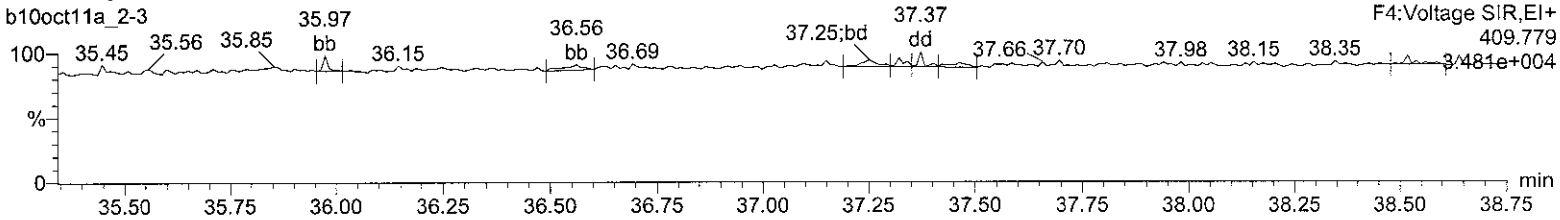
Last Altered: Tuesday, October 11, 2011 13:39:25 Eastern Standard Time
Printed: Tuesday, October 11, 2011 13:40:15 Eastern Standard Time

Name: b10oct11a_2-3, Date: 11-Oct-2011, Time: 02:06:09, ID: 12004352-1 MB, Description: 19684, Job: HMS8290_1L, Task: HRP763_1, User: MJC

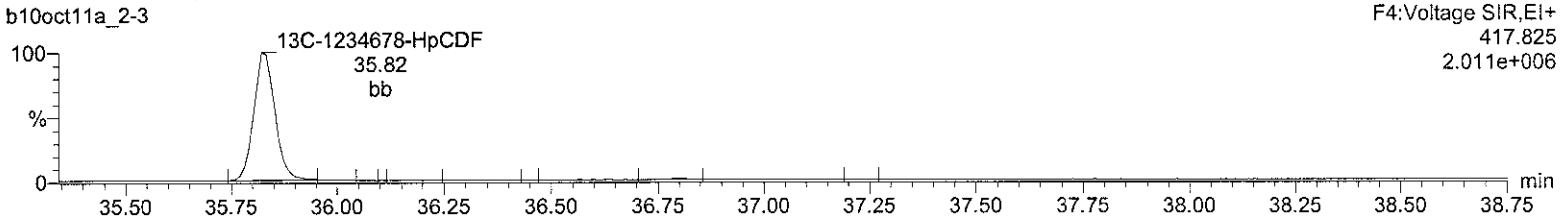
Total-heptafurans



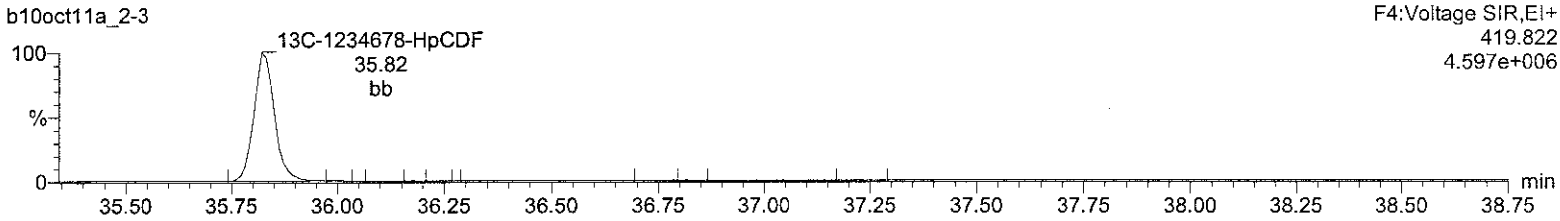
Total-heptafurans



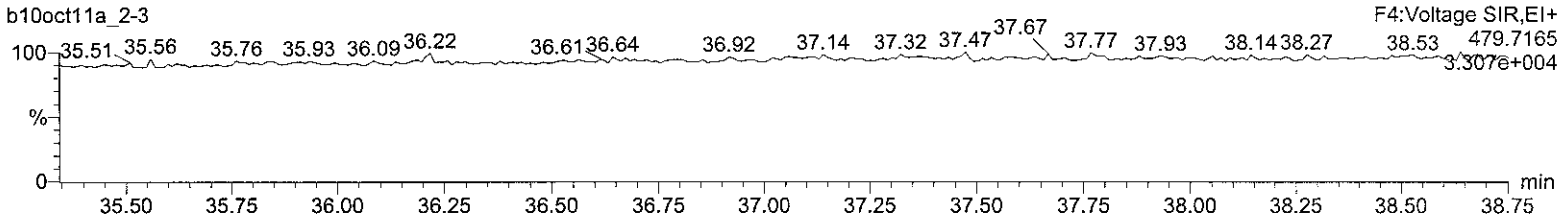
13C-1234678-HpCDF



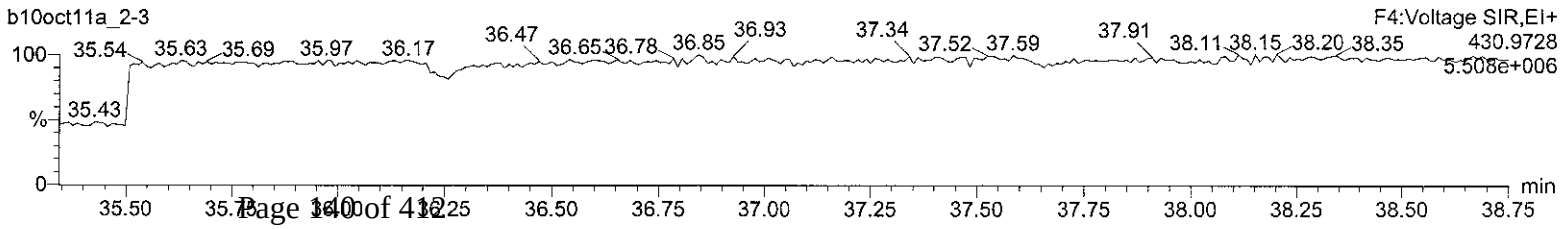
13C-1234678-HpCDF



NoDPE



Lock Mass F4



Quantify Sample Report **MassLynx 4.1**
Method 8290 Quantification Report

Dataset: C:\MassLynx\Default.pro\Sample Results\8290-b10oct11a_2.qld

Last Altered: Tuesday, October 11, 2011 13:39:25 Eastern Standard Time
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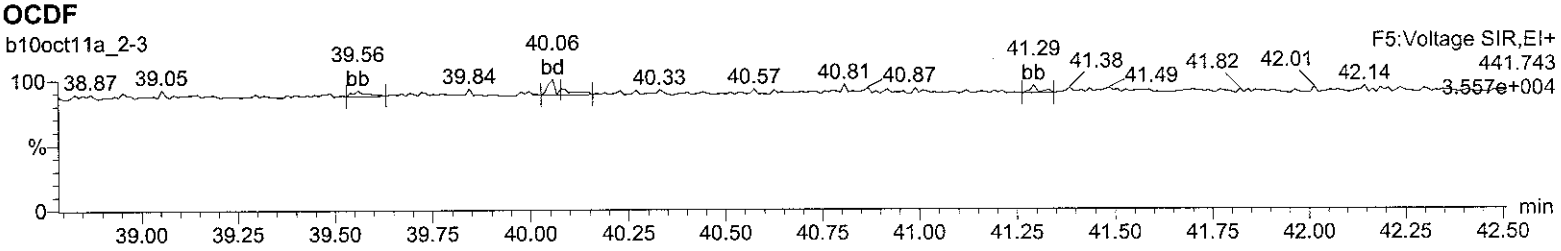
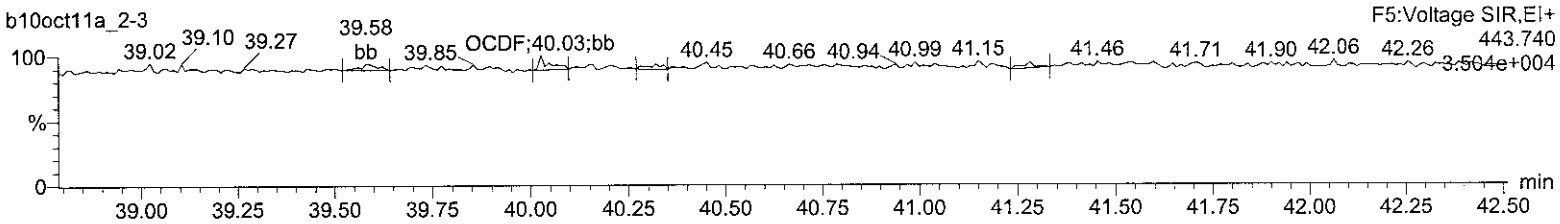
Name: b10oct11a_2-3, Date: 11-Oct-2011, Time: 02:06:09, ID: 12004352-1 MB, Description: 19684, Job: HMS8290_1L, Task: HRP763_1, User: MJC

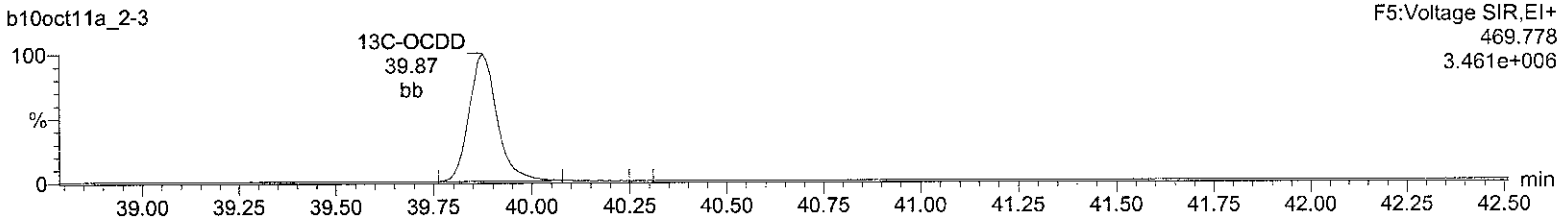
OCDF



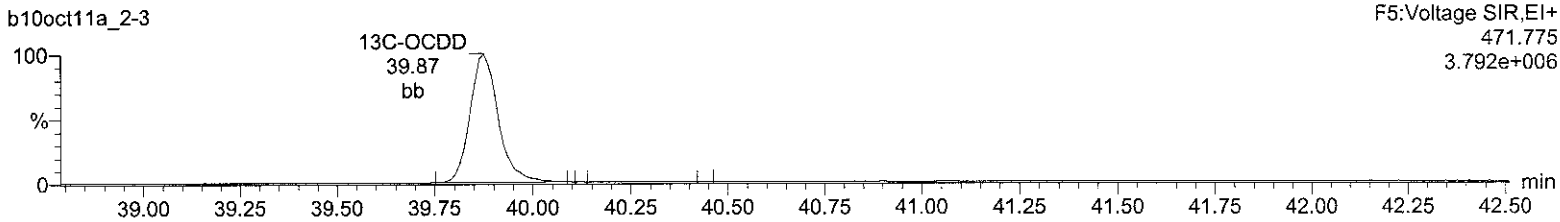
OCDF



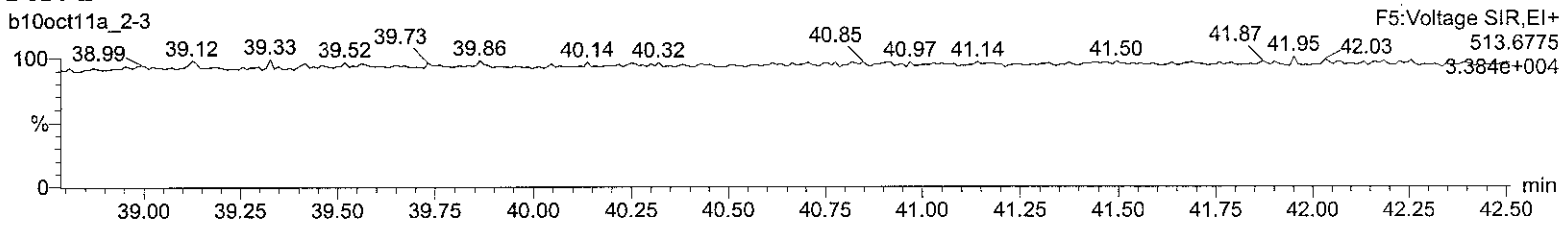
13C-OCDD



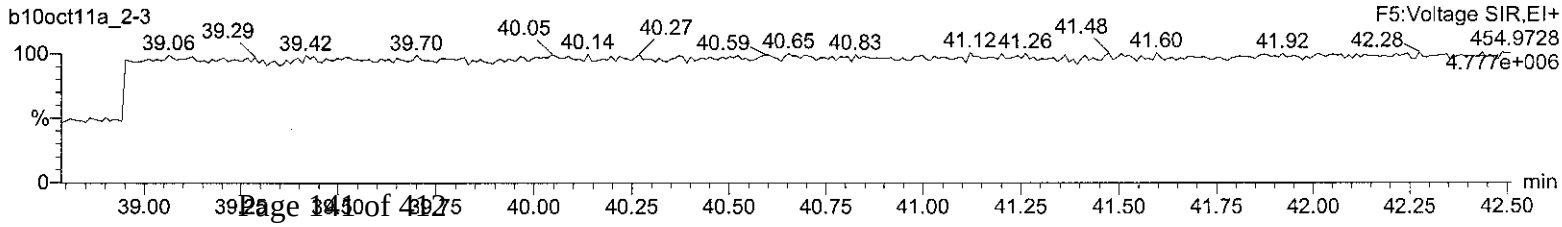
13C-OCDD



DeDPE



Lock Mass F5



Hi-Res Dioxins/Furans
Certificate of Analysis
Sample Summary

SDG Number:	**1109191**	**Client:**	**EMPI001**	**Project:**	**QC**
Lab Sample ID:	**12004340**			**Matrix:**	**SOLID**
Client Sample:	**QC for batch 19663**				
Client ID:	**LCS for batch 19663**			**Prep Basis:**	**As Received**
Batch ID:	**19680**	**Method:**	**SW846 8290A**		
Run Date:	**10/10/2011 14:05**	**Analyst:**	**MJC**	**Instrument:**	**HRP763**
Data File:	**b10oct11a-2**			**Dilution:**	**1**
Prep Batch:	**19663**	**Prep Method:**	**SW846 3540C**		
Prep Date:	**04-OCT-11**	**Aliquot:**	**10 g**		

CAS No.	Parmname	Qual	Result	EMPC	Units	EDL	PQL
1746-01-6	2,3,7,8-TCDD		20.7		pg/g	0.278	1.00
40321-76-4	1,2,3,7,8-PeCDD		99.3		pg/g	0.276	5.00
39227-28-6	1,2,3,4,7,8-HxCDD		101		pg/g	0.356	5.00
57653-85-7	1,2,3,6,7,8-HxCDD		103		pg/g	0.330	5.00
19408-74-3	1,2,3,7,8,9-HxCDD		115		pg/g	0.368	5.00
35822-46-9	1,2,3,4,6,7,8-HpCDD		102		pg/g	0.548	5.00
3268-87-9	1,2,3,4,6,7,8,9-OCDD		210		pg/g	0.644	10.0
51207-31-9	2,3,7,8-TCDF		19.3		pg/g	0.212	1.00
57117-41-6	1,2,3,7,8-PeCDF		111		pg/g	0.928	5.00
57117-31-4	2,3,4,7,8-PeCDF		112		pg/g	0.948	5.00
70648-26-9	1,2,3,4,7,8-HxCDF		110		pg/g	0.756	5.00
57117-44-9	1,2,3,6,7,8-HxCDF		120		pg/g	0.650	5.00
72918-21-9	1,2,3,7,8,9-HxCDF		110		pg/g	0.868	5.00
60851-34-5	2,3,4,6,7,8-HxCDF		114		pg/g	0.718	5.00
67562-39-4	1,2,3,4,6,7,8-HpCDF		114		pg/g	0.426	5.00
55673-89-7	1,2,3,4,7,8,9-HpCDF		96.6		pg/g	0.586	5.00
39001-02-0	1,2,3,4,6,7,8,9-OCDF		183		pg/g	0.846	10.0

Surrogate/Tracer recovery	Qual	Result	Nominal	Units	Recovery%	Acceptable Limits
13C-2,3,7,8-TCDD		149	200	pg/g	74.5	(40%-135%)
13C-1,2,3,7,8-PeCDD		145	200	pg/g	72.7	(40%-135%)
13C-1,2,3,6,7,8-HxCDD		141	200	pg/g	70.4	(40%-135%)
13C-1,2,3,4,6,7,8-HpCDD		154	200	pg/g	76.9	(40%-135%)
13C-OCDD		252	400	pg/g	63.0	(40%-135%)
13C-2,3,7,8-TCDF		148	200	pg/g	73.8	(40%-135%)
13C-1,2,3,7,8-PeCDF		115	200	pg/g	57.3	(40%-135%)
13C-1,2,3,6,7,8-HxCDF		114	200	pg/g	57.0	(40%-135%)
13C-1,2,3,4,6,7,8-HpCDF		129	200	pg/g	64.6	(40%-135%)

Comments:

K Estimated Maximum Possible Concentration

Quantify Sample Summary Report **MassLynx 4.1**
Method 8290 Quantification Report

Dataset: C:\MassLynx\Default.pro\Sample Results\8290-b10oct11a.qld

Last Altered: Tuesday, October 11, 2011 08:03:54 Eastern Standard Time
Printed: Tuesday, October 11, 2011 10:52:51 Eastern Standard Time

HMP
110411

Method: C:\MassLynx\DEFAULT.PRO\MethDB\CFA_EPA8290_101011.mdb 10 Oct 2011 14:05:54
Calibration: C:\MassLynx\DEFAULT.PRO\CurveDB\8290-b01nov10b.cdb 02 Nov 2010 08:19:01

Name: b10oct11a-2, Date: 10-Oct-2011, Time: 14:05:30, ID: 12004340-1 LCS, Description: 19680, Job: HMS8290_1S, Task: HRP763_1, User: MJC

	Name	Ion1Area	Ion2Area	Response	RT	RRT	RA	Fail?	pg/uL	EDL	Height1	Noise1	S/N1	Height2	Noise2	S/N2	M
1	2378-TCDD	1.78e4	2.19e4	3.97e4	26.56	1.001	0.81	NO	10.373	0.139	1.73e5	1037	167.0	2.22e5	1069	208.1	bb
2	12378-PeCDD	9.85e4	6.18e4	1.60e5	32.06	1.001	1.59	NO	49.632	0.138	2.02e6	1976	1020.1	1.26e6	1516	828.8	bb
3	123478-HxCDD	7.41e4	5.78e4	1.32e5	34.20	0.998	1.28	NO	50.603	0.178	1.47e6	1571	934.1	1.16e6	2163	537.1	bd
4	123678-HxCDD	8.25e4	6.25e4	1.45e5	34.27	1.000	1.32	NO	51.502	0.165	1.66e6	1571	1059.7	1.33e6	2163	616.3	dd
5	123789-HxCDD	8.25e4	6.18e4	1.44e5	34.44	1.005	1.34	NO	57.334	0.184	1.47e6	1571	936.3	1.19e6	2163	550.2	dd
6	1234678-HpCDD	5.93e4	5.76e4	1.17e5	36.77	1.000	1.03	NO	50.897	0.274	9.18e5	2200	417.5	8.86e5	1699	521.6	bb
7	OCDD	7.67e4	8.69e4	1.64e5	39.86	1.000	0.88	NO	105.115	0.322	9.46e5	1189	796.3	1.06e6	1116	945.0	bd
8	2378-TCDF	2.53e4	3.26e4	5.79e4	25.65	1.000	0.78	NO	9.672	0.106	2.49e5	1196	208.0	3.25e5	1368	237.4	bb
9	12378-PeCDF	1.39e5	8.85e4	2.28e5	31.02	1.001	1.57	NO	55.480	0.464	1.86e6	6197	300.1	1.18e6	3585	330.3	bd
10	23478-PeCDF	1.38e5	8.74e4	2.25e5	31.85	1.028	1.58	NO	56.102	0.474	2.70e6	6197	436.5	1.68e6	3585	468.3	dd
11	123478-HxCDF	9.59e4	7.66e4	1.73e5	33.61	0.998	1.25	NO	54.995	0.378	2.04e6	5164	394.8	1.61e6	4687	342.6	bd
12	123678-HxCDF	1.22e5	9.79e4	2.20e5	33.69	1.000	1.24	NO	60.156	0.325	2.31e6	5164	447.0	2.01e6	4687	429.1	dd
13	234678-HxCDF	1.04e5	8.35e4	1.88e5	34.09	1.012	1.25	NO	56.839	0.359	2.10e6	5164	407.3	1.66e6	4687	355.0	bb
14	123789-HxCDF	8.28e4	6.79e4	1.51e5	34.67	1.029	1.22	NO	55.155	0.434	1.46e6	5164	283.3	1.19e6	4687	254.8	bb
15	1234678-HpCDF	9.60e4	9.35e4	1.89e5	35.82	1.000	1.03	NO	57.239	0.213	1.65e6	2387	689.9	1.58e6	2262	699.9	bb
16	1234789-HpCDF	5.89e4	5.76e4	1.16e5	37.24	1.040	1.02	NO	48.280	0.293	8.67e5	2387	363.4	8.33e5	2262	368.3	bb
17	OCDF	8.44e4	9.18e4	1.76e5	40.06	1.005	0.92	NO	91.447	0.423	9.67e5	1783	542.4	1.01e6	1962	514.2	bd
18	13C-2378-TCDD	1.67e5	2.11e5	3.78e5	26.54	1.027	0.79	NO	74.456	0.208	1.65e6	2681	617.2	2.09e6	1672	1249.5	bb
19	13C-12378-PeCDD	1.91e5	1.22e5	3.13e5	32.04	1.240	1.57	NO	72.746	0.197	3.74e6	2575	1451.6	2.38e6	929	2563.6	bd
20	13C-123678-HxCDD	1.61e5	1.29e5	2.91e5	34.26	0.995	1.25	NO	70.447	0.175	3.25e6	3008	1080.2	2.61e6	2181	1197.7	bd
21	13C-1234678-HpCDD	1.18e5	1.11e5	2.29e5	36.76	1.067	1.06	NO	76.919	0.197	1.82e6	2271	800.5	1.72e6	1946	885.7	bb
22	13C-OCDD	1.50e5	1.62e5	3.13e5	39.85	1.157	0.93	NO	126.018	0.209	1.73e6	1995	865.1	1.94e6	1735	1120.9	bd
23	13C-2378-TCDF	2.70e5	3.39e5	6.09e5	25.63	0.992	0.80	NO	73.833	0.0989	2.72e6	1505	1804.8	3.35e6	1866	1797.0	bb
24	13C-12378-PeCDF	2.66e5	1.74e5	4.39e5	31.00	1.200	1.53	NO	57.293	0.170	3.41e6	2954	1154.9	2.19e6	2439	897.4	bb
25	13C-123678-HxCDF	1.18e5	2.27e5	3.45e5	33.68	0.978	0.52	NO	57.041	0.150	2.45e6	3444	712.7	4.54e6	3091	1469.7	bb
26	13C-1234678-HpCDF	8.04e4	1.79e5	2.59e5	35.82	1.040	0.45	NO	64.641	0.0981	1.32e6	1260	1050.6	2.99e6	1574	1899.1	bd
27	13C-1234-TCDD	2.03e5	2.50e5	4.53e5	25.84	0.000	0.81	NO	100.000	0.232	2.10e6	2681	781.9	2.62e6	1672	1569.0	bb
28	13C-123789-HxCDD	2.05e5	1.66e5	3.71e5	34.44	0.000	1.24	NO	100.000	0.194	3.69e6	3008	1227.4	2.95e6	2181	1354.6	dd
29	37Cl-2378-TCDD (SS)									0.0440		694					
30	13C-23478-PeCDF (SS)	1.84e3	1.22e3	3.06e3	31.83	1.027	1.51	NO	0.747	0.256	3.71e4	2954	12.6	2.54e4	2439	10.4	bd

Quantify Sample Report **MassLynx 4.1**
Method 8290 Quantification Report

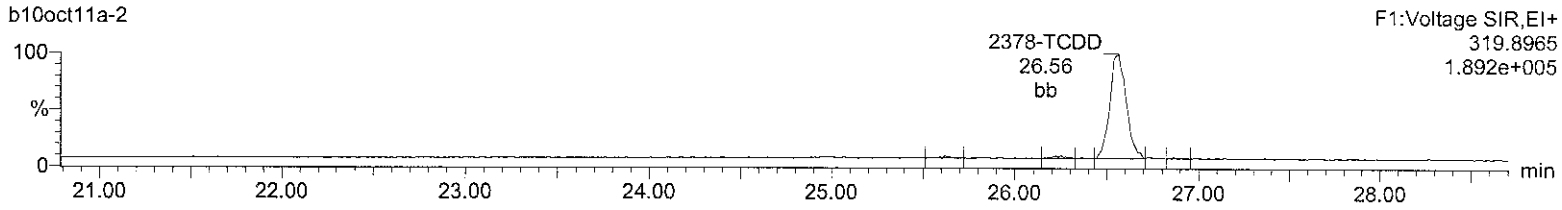
Dataset: C:\MassLynx\Default.pro\Sample Results\8290-b10oct11a.qld

Last Altered: Tuesday, October 11, 2011 08:03:54 Eastern Standard Time
Printed: Tuesday, October 11, 2011 08:04:29 Eastern Standard Time

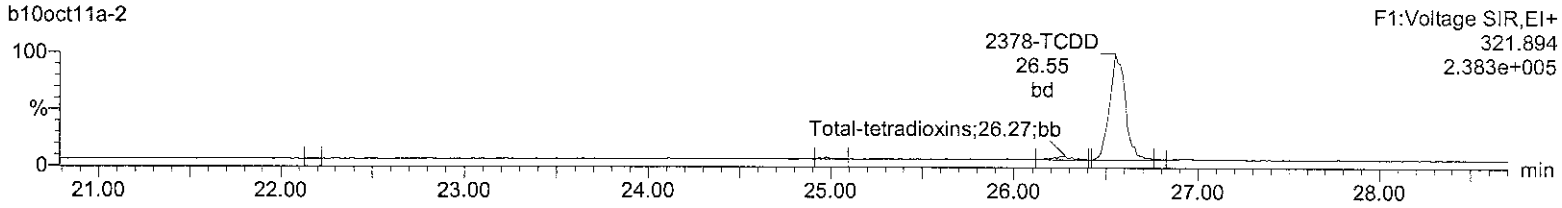
Method: C:\MassLynx\DEFAULT.PRO\MethDB\CFA_EPA8290_101011.mdb 10 Oct 2011 14:05:54
Calibration: C:\MassLynx\DEFAULT.PRO\CurveDB\8290-b01nov10b.cdb 02 Nov 2010 08:19:01

Name: b10oct11a-2, Date: 10-Oct-2011, Time: 14:05:30, ID: 12004340-1 LCS, Description: 19680, Job: HMS8290_1S, Task: HRP763_1, User: MJC

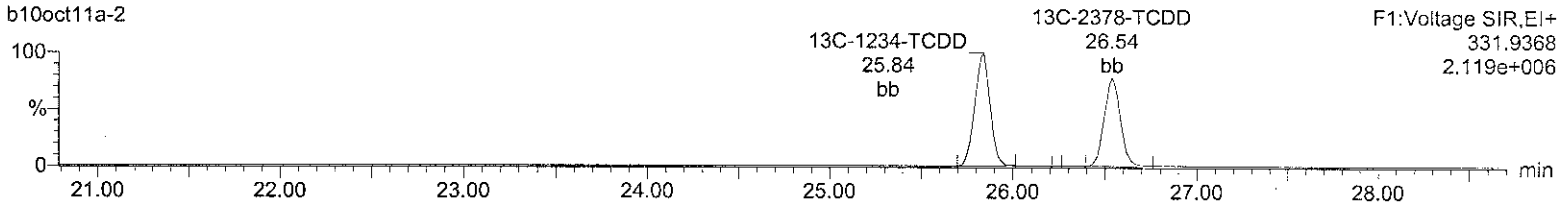
Total-tetradioxins



Total-tetradioxins



13C-2378-TCDD



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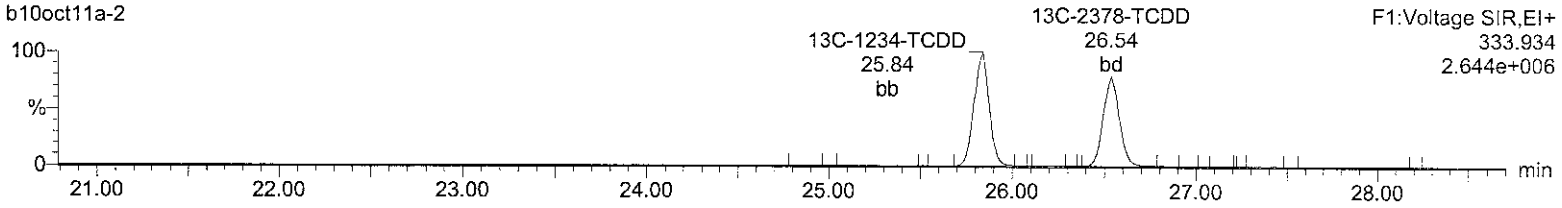
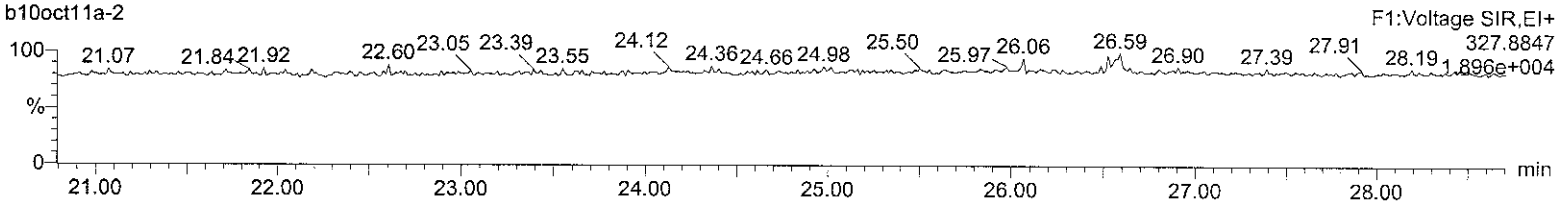
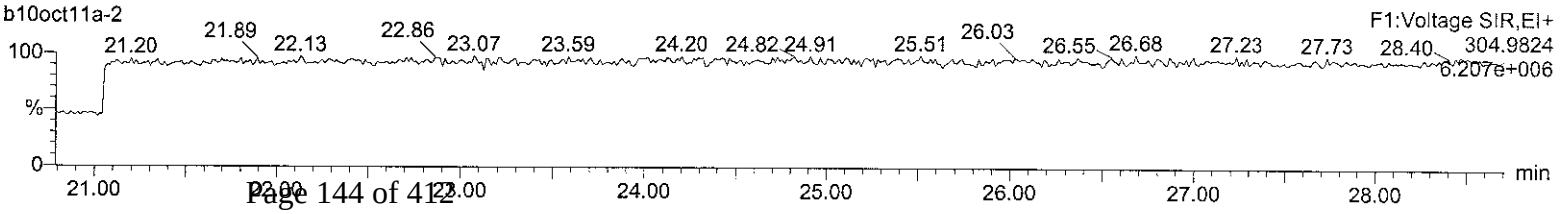


37Cl-2378-TCDD (SS)



Lock Mass F1



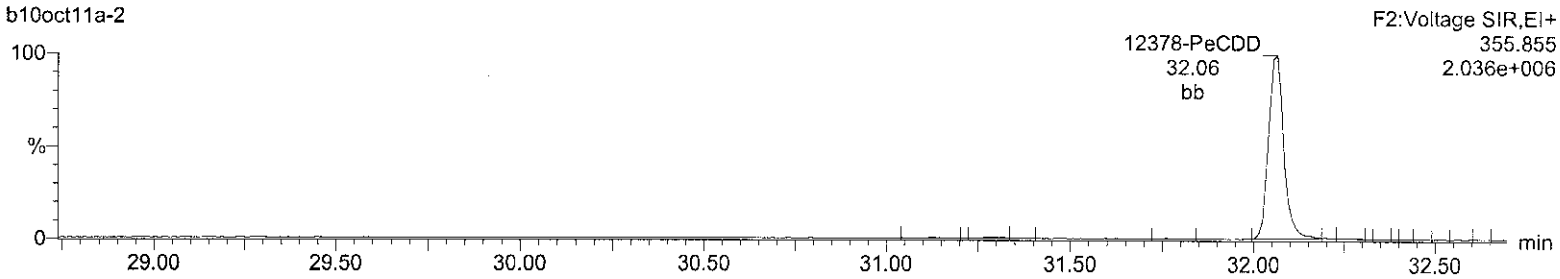
Quantify Sample Report **MassLynx 4.1**
Method 8290 Quantification Report

Dataset: C:\MassLynx\Default.pro\Sample Results\8290-b10oct11a.qld

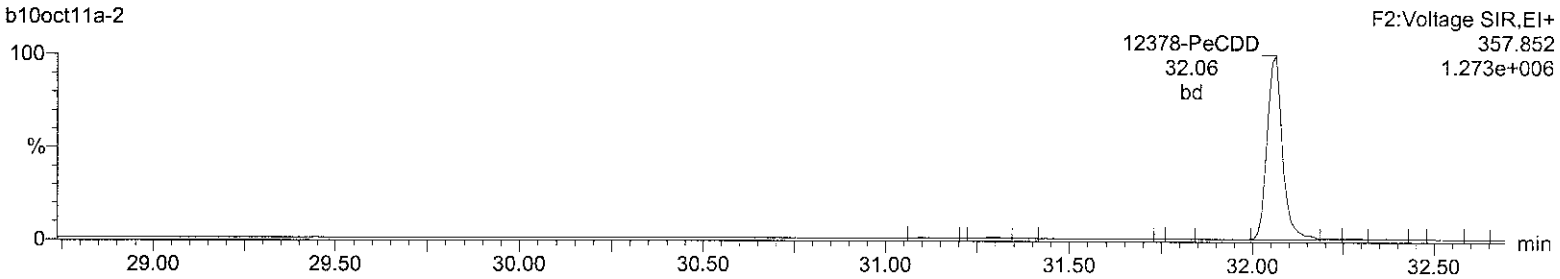
Last Altered: Tuesday, October 11, 2011 08:03:54 Eastern Standard Time
Printed: Tuesday, October 11, 2011 08:04:29 Eastern Standard Time

Name: b10oct11a-2, Date: 10-Oct-2011, Time: 14:05:30, ID: 12004340-1 LCS, Description: 19680, Job: HMS8290_1S, Task: HRP763_1, User: MJC

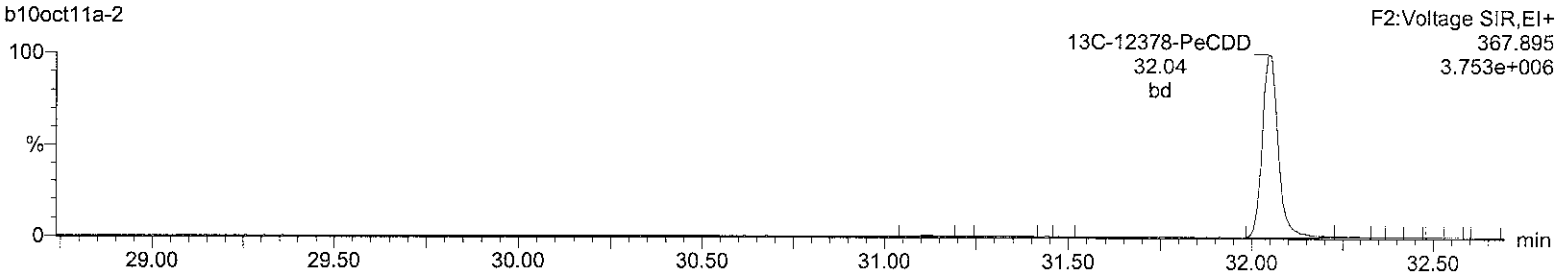
Total-pentadioxins



Total-pentadioxins



13C-12378-PeCDD



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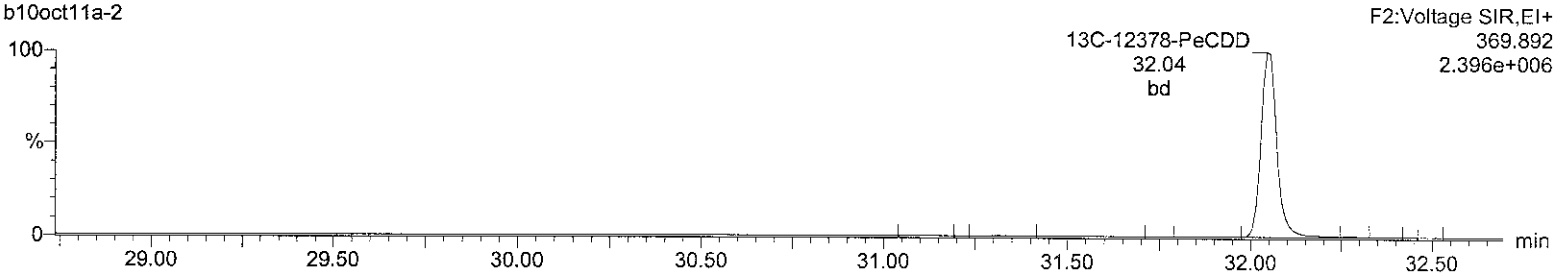
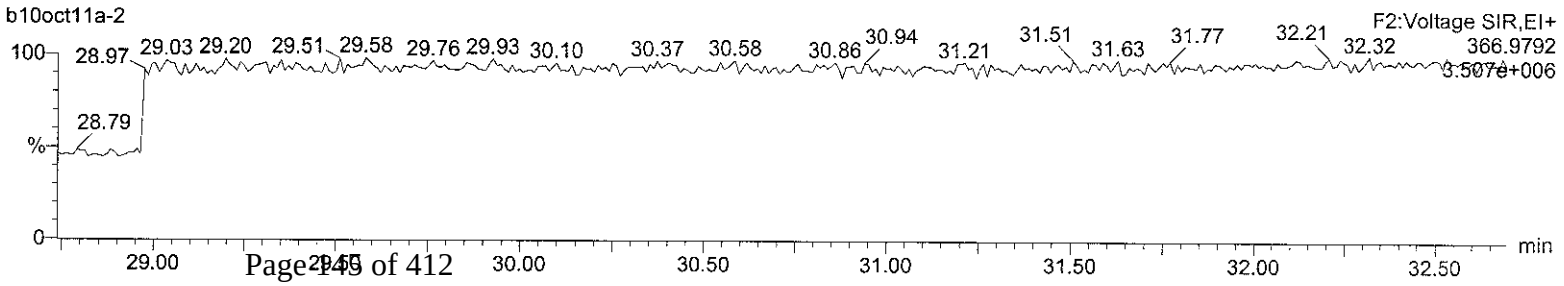


Lock Mass F2



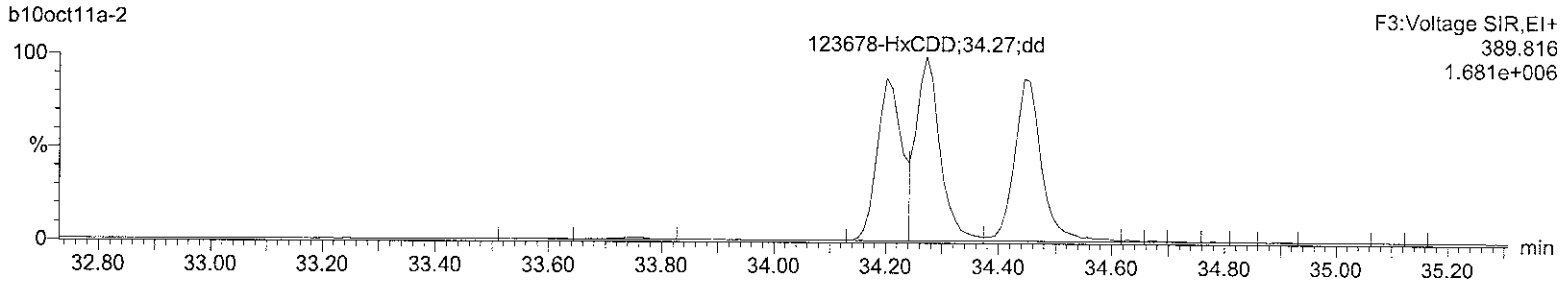
Quantify Sample Report **MassLynx 4.1**
Method 8290 Quantification Report

Dataset: C:\MassLynx\Default.pro\Sample Results\8290-b10oct11a.qld

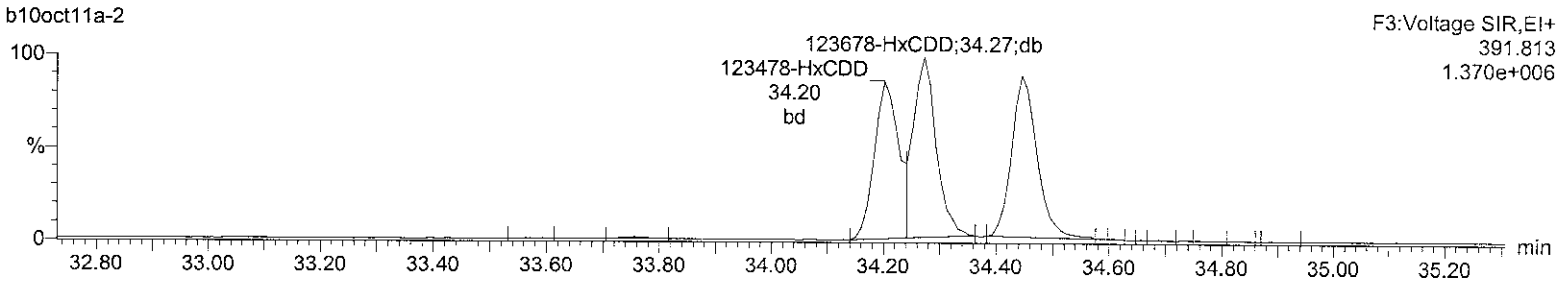
Last Altered: Tuesday, October 11, 2011 08:03:54 Eastern Standard Time
Printed: Tuesday, October 11, 2011 08:04:29 Eastern Standard Time

Name: b10oct11a-2, Date: 10-Oct-2011, Time: 14:05:30, ID: 12004340-1 LCS, Description: 19680, Job: HMS8290_1S, Task: HRP763_1, User: MJC

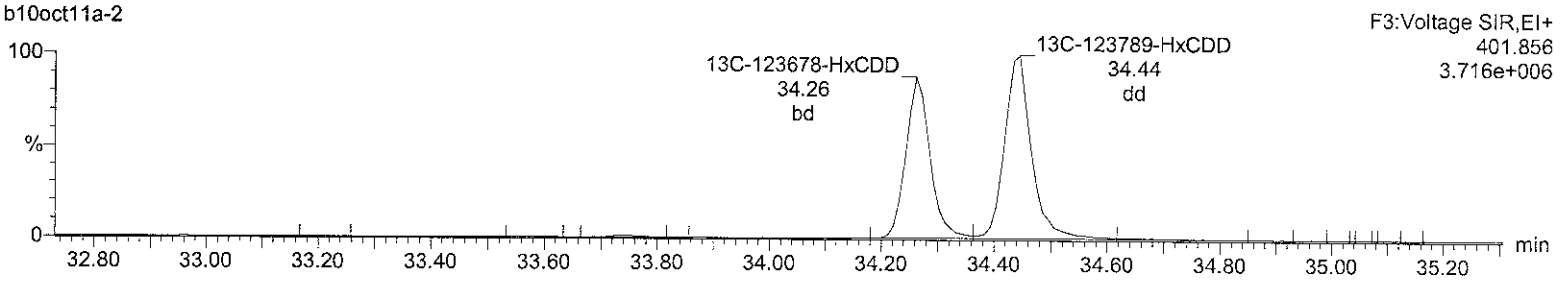
Total-hexadioxins



Total-hexadioxins



13C-123678-HxCDD



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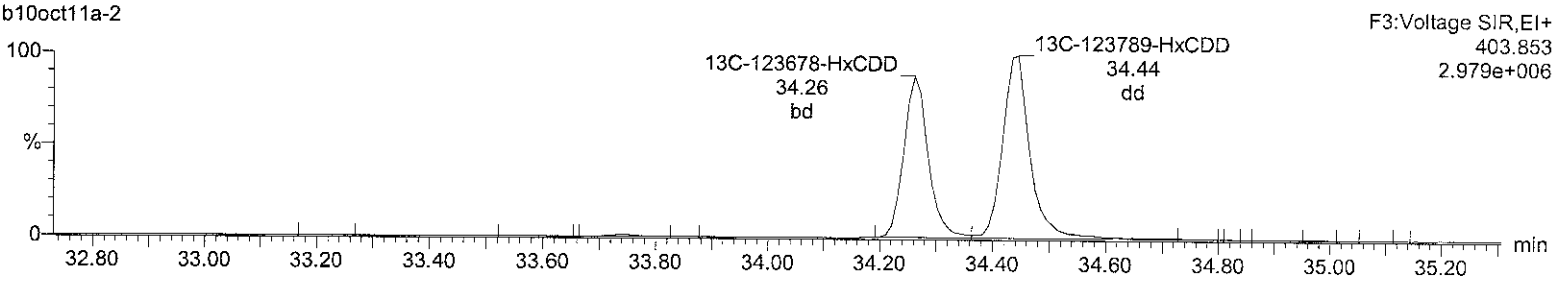
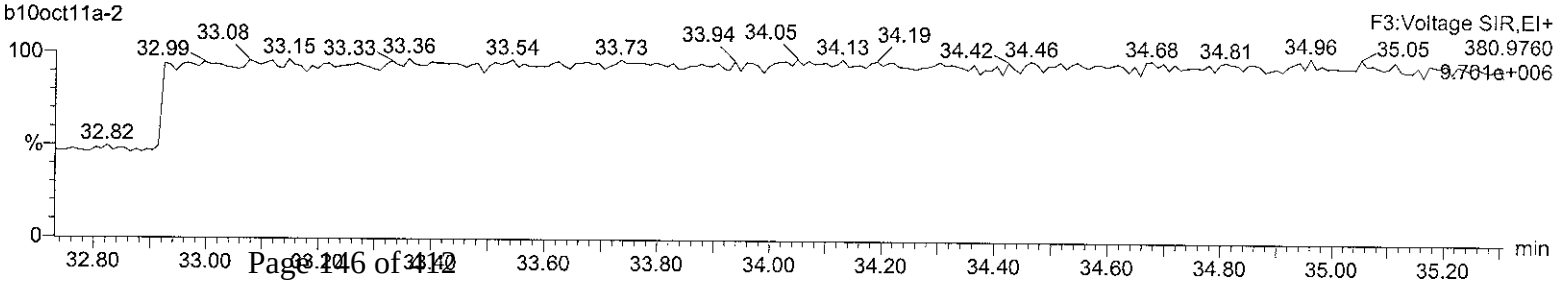


Lock Mass F3



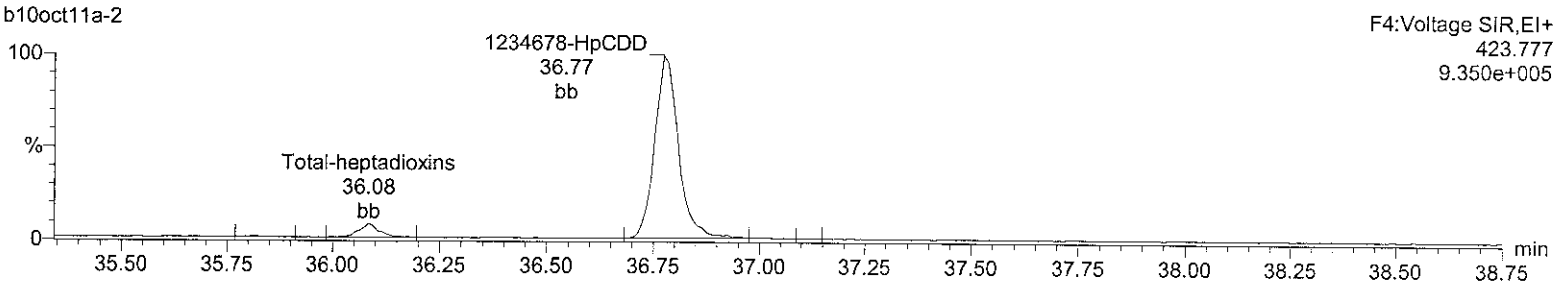
Quantify Sample Report **MassLynx 4.1**
Method 8290 Quantification Report

Dataset: C:\MassLynx\Default.pro\Sample Results\8290-b10oct11a.qld

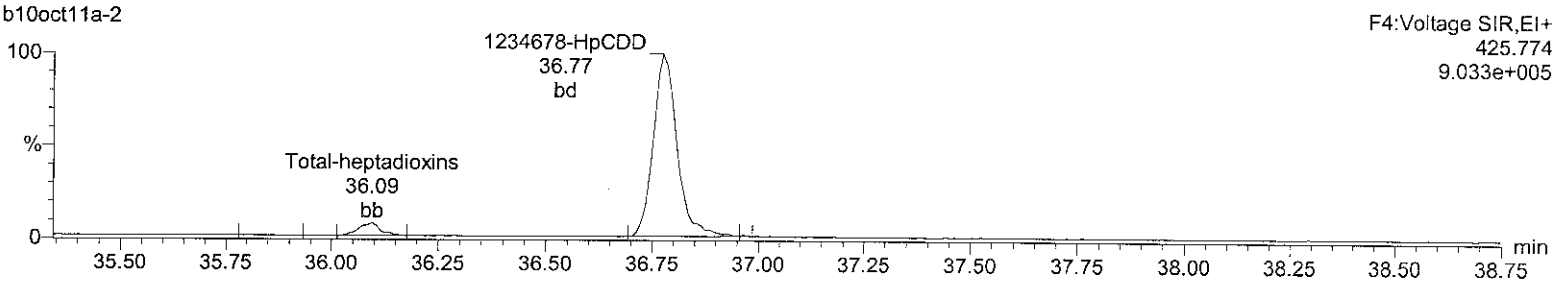
Last Altered: Tuesday, October 11, 2011 08:03:54 Eastern Standard Time
Printed: Tuesday, October 11, 2011 08:04:29 Eastern Standard Time

Name: b10oct11a-2, Date: 10-Oct-2011, Time: 14:05:30, ID: 12004340-1 LCS, Description: 19680, Job: HMS8290_1S, Task: HRP763_1, User: MJC

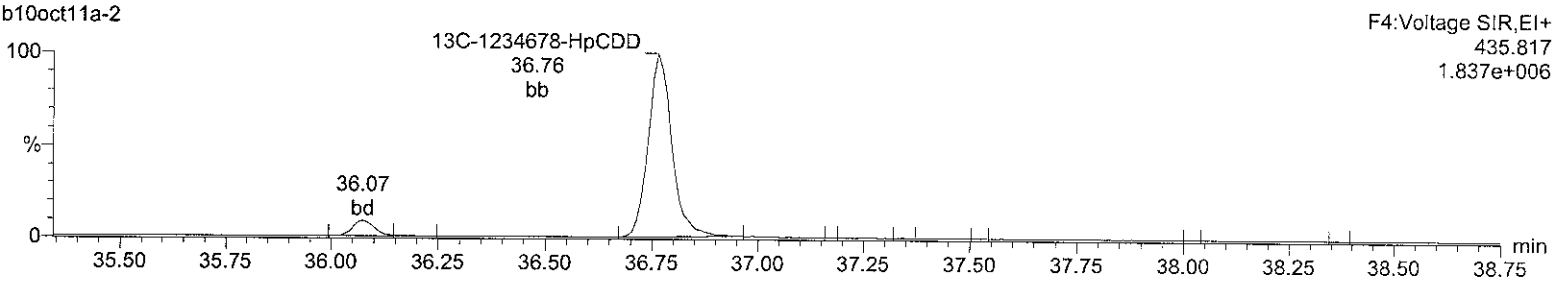
Total-heptadioxins
b10oct11a-2



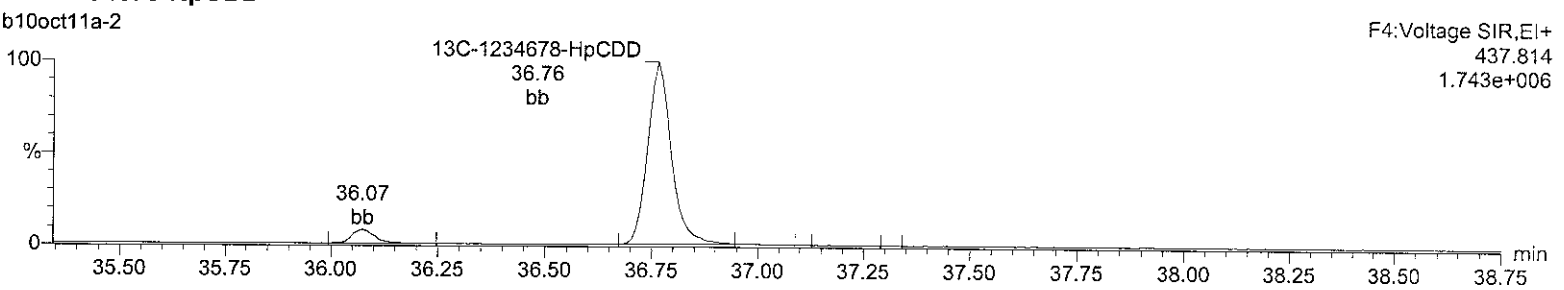
Total-heptadioxins
b10oct11a-2



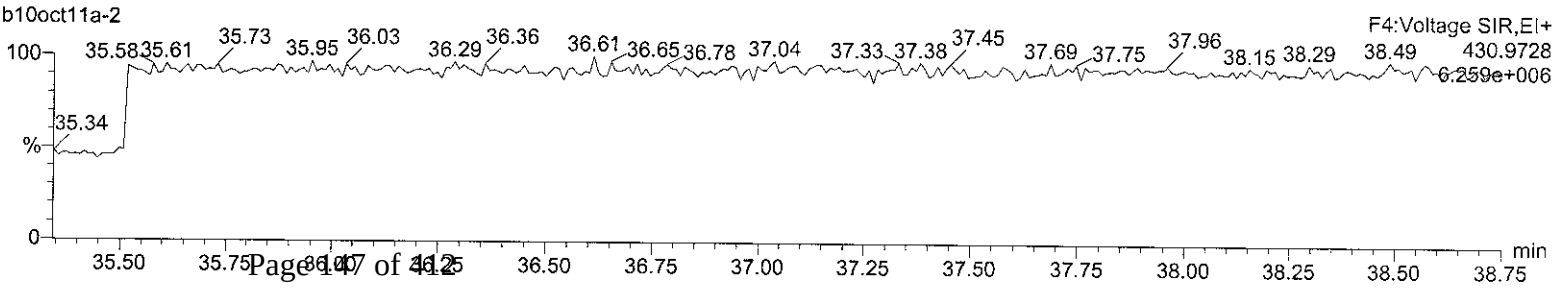
13C-1234678-HpCDD
b10oct11a-2



13C-1234678-HpCDD
b10oct11a-2



Lock Mass F4
b10oct11a-2



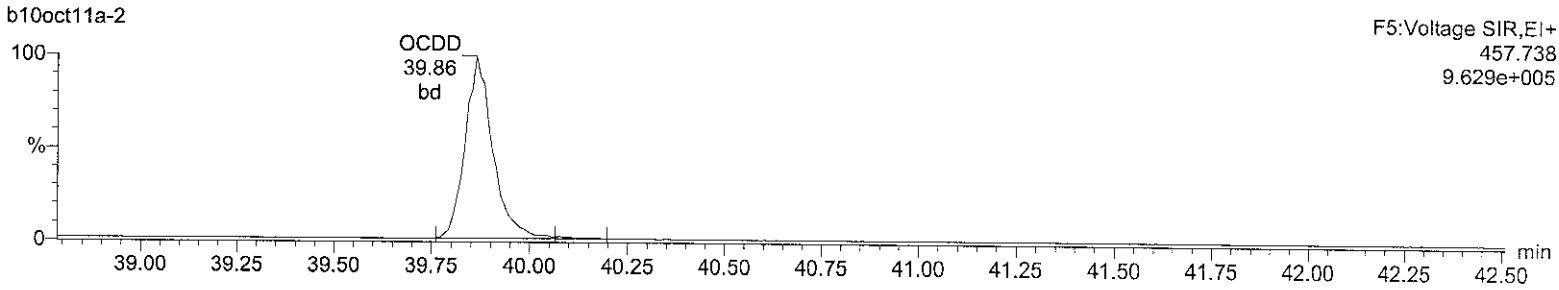
Quantify Sample Report **MassLynx 4.1**
Method 8290 Quantification Report

Dataset: C:\MassLynx\Default.pro\Sample Results\8290-b10oct11a.qld

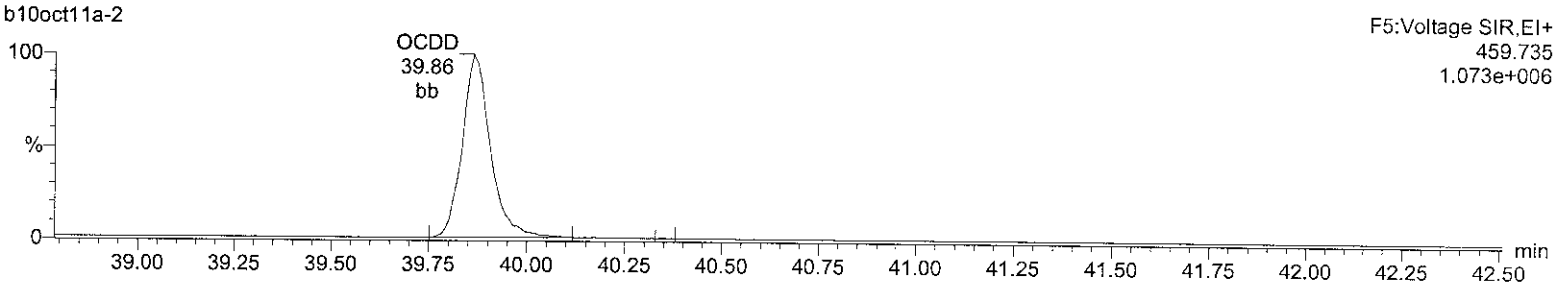
Last Altered: Tuesday, October 11, 2011 08:03:54 Eastern Standard Time
Printed: Tuesday, October 11, 2011 08:04:29 Eastern Standard Time

Name: b10oct11a-2, Date: 10-Oct-2011, Time: 14:05:30, ID: 12004340-1 LCS, Description: 19680, Job: HMS8290_1S, Task: HRP763_1, User: MJC

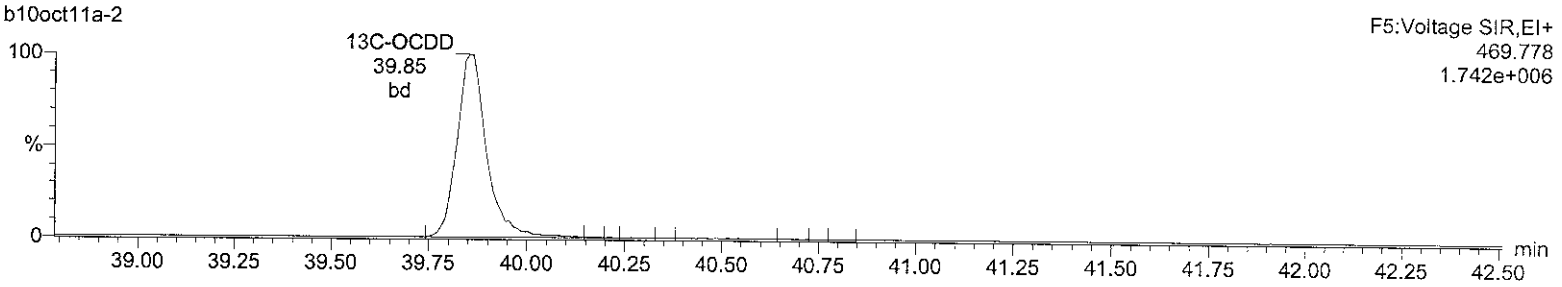
OCDD



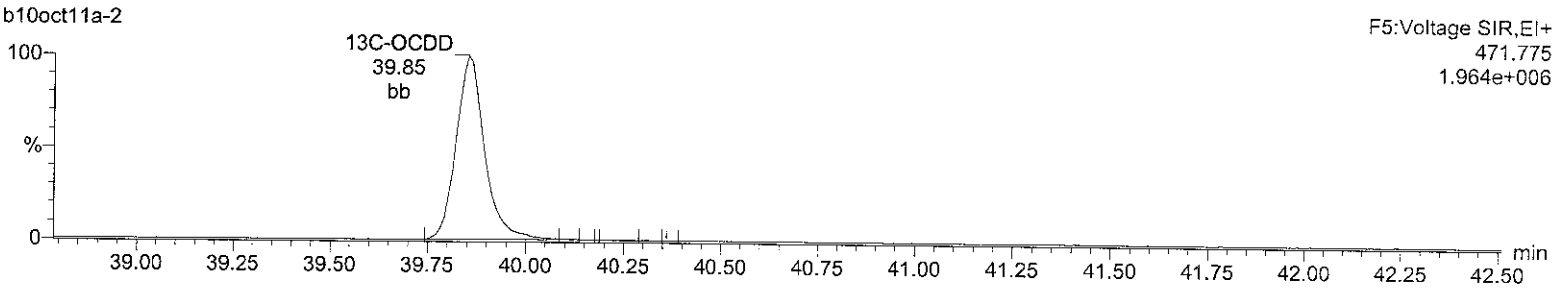
OCDD



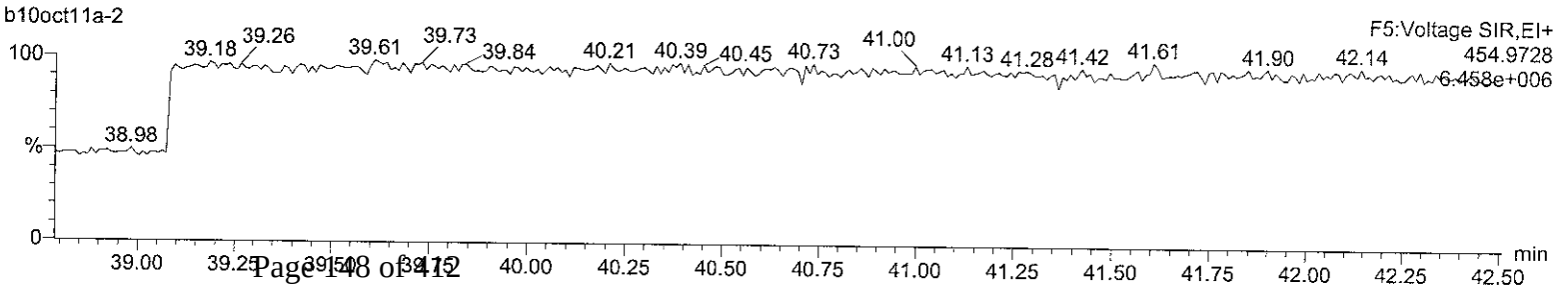
13C-OCDD



13C-OCDD



Lock Mass F5



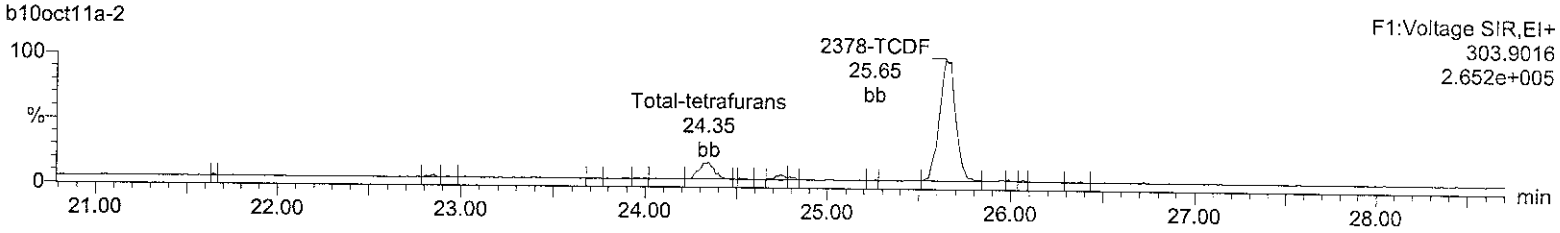
Quantify Sample Report **MassLynx 4.1**
Method 8290 Quantification Report

Dataset: C:\MassLynx\Default.pro\Sample Results\8290-b10oct11a.qld

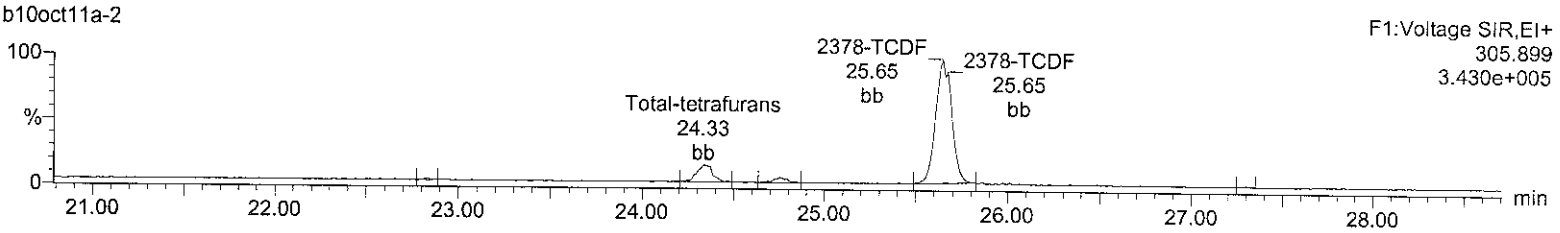
Last Altered: Tuesday, October 11, 2011 08:03:54 Eastern Standard Time
Printed: Tuesday, October 11, 2011 08:04:29 Eastern Standard Time

Name: b10oct11a-2, Date: 10-Oct-2011, Time: 14:05:30, ID: 12004340-1 LCS, Description: 19680, Job: HMS8290_1S, Task: HRP763_1, User: MJC

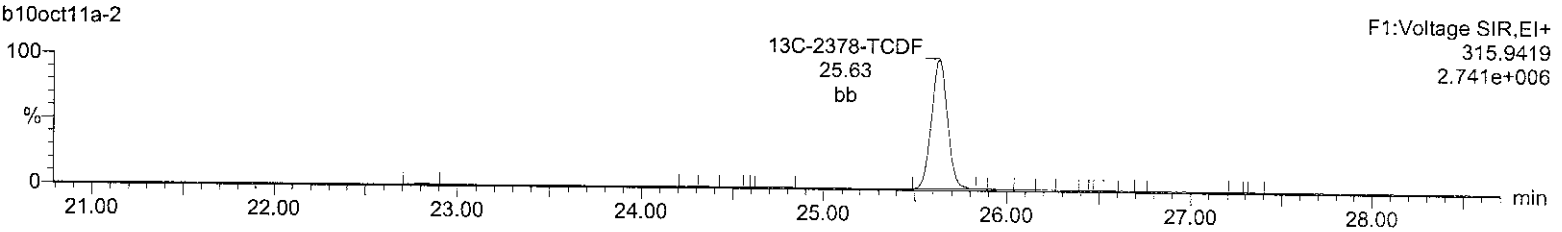
Total-tetrafurans
b10oct11a-2



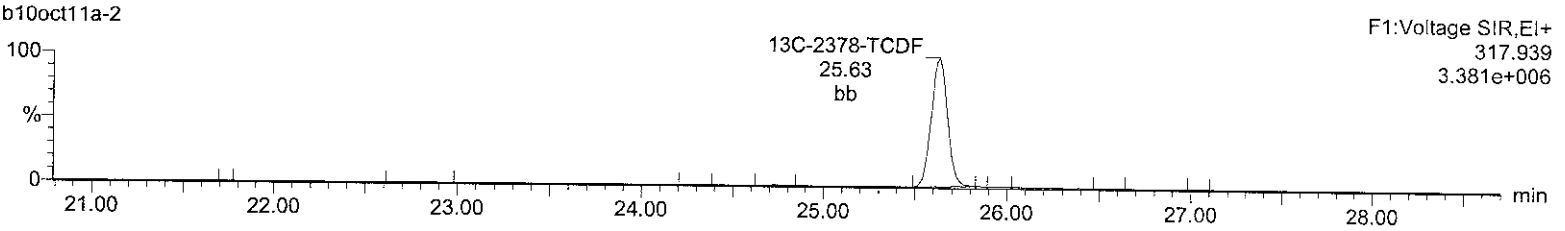
Total-tetrafurans
b10oct11a-2



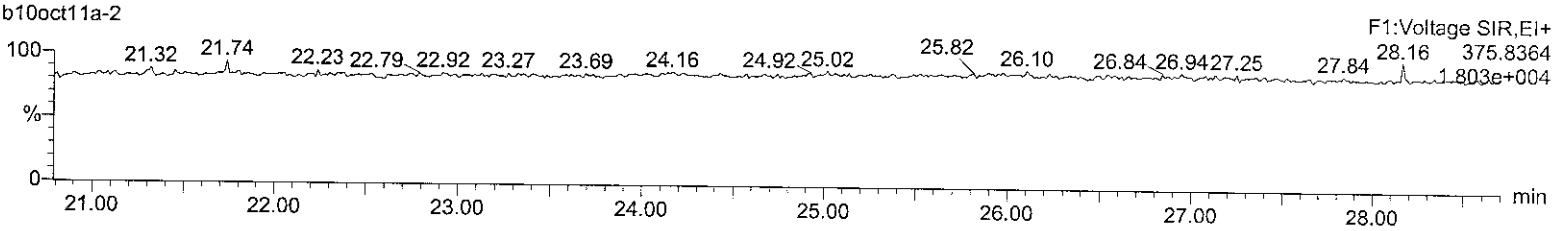
13C-2378-TCDF
b10oct11a-2



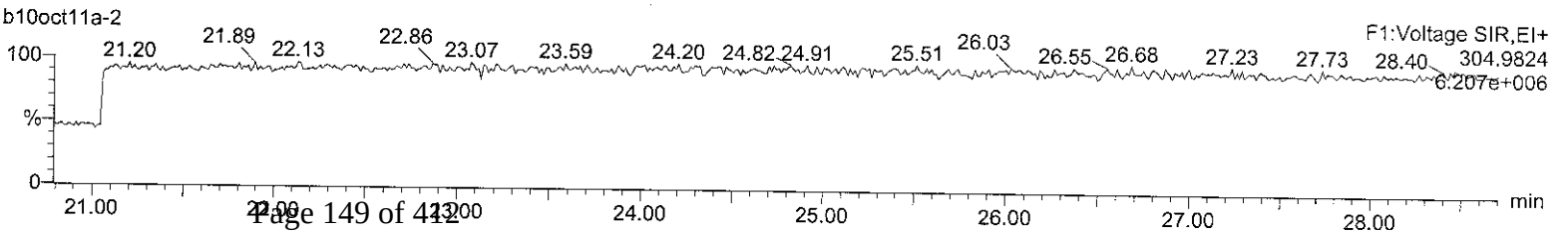
13C-2378-TCDF
b10oct11a-2



HxDPE
b10oct11a-2



Lock Mass F1
b10oct11a-2



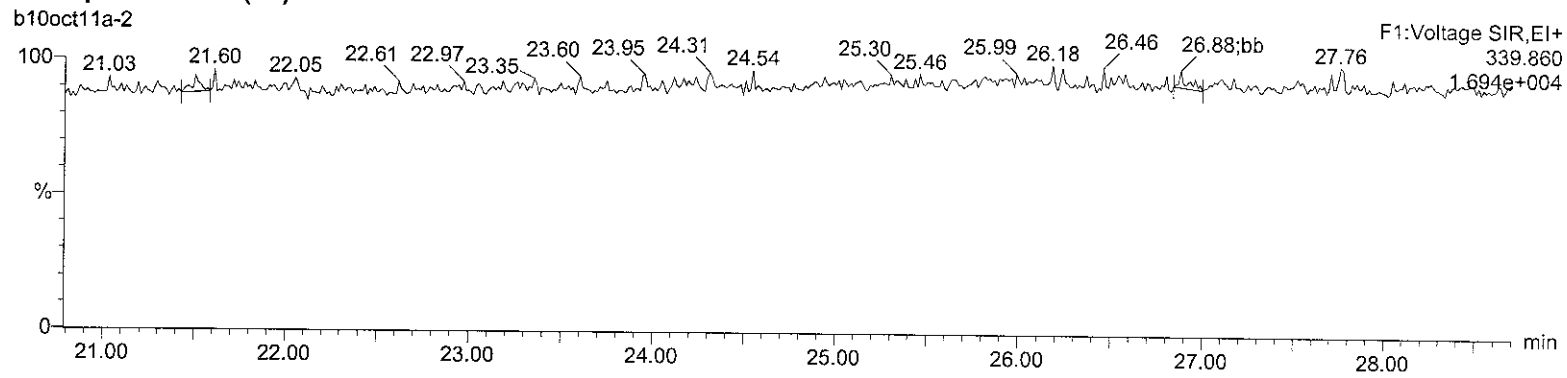
Quantify Sample Report **MassLynx 4.1**
Method 8290 Quantification Report

Dataset: C:\MassLynx\Default.pro\Sample Results\8290-b10oct11a.qld

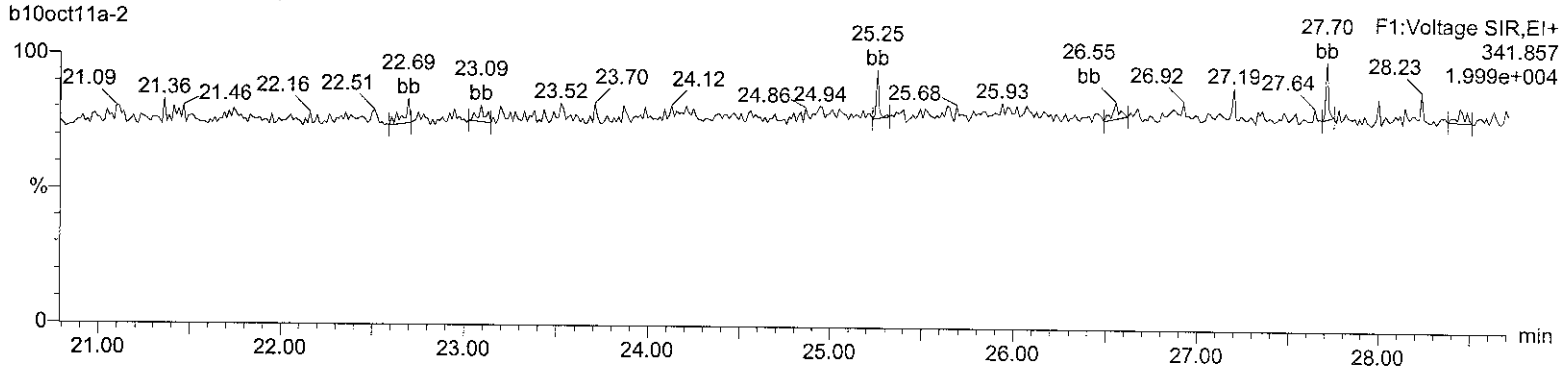
Last Altered: Tuesday, October 11, 2011 08:03:54 Eastern Standard Time
Printed: Tuesday, October 11, 2011 08:04:29 Eastern Standard Time

Name: b10oct11a-2, Date: 10-Oct-2011, Time: 14:05:30, ID: 12004340-1 LCS, Description: 19680, Job: HMS8290_1S, Task: HRP763_1, User: MJC

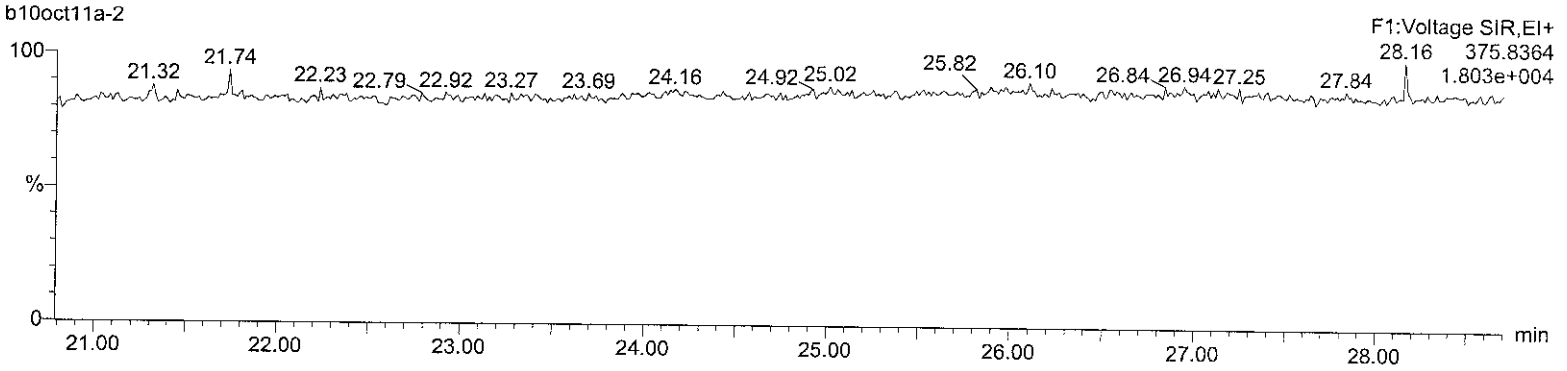
Total-pentafurans (F1)



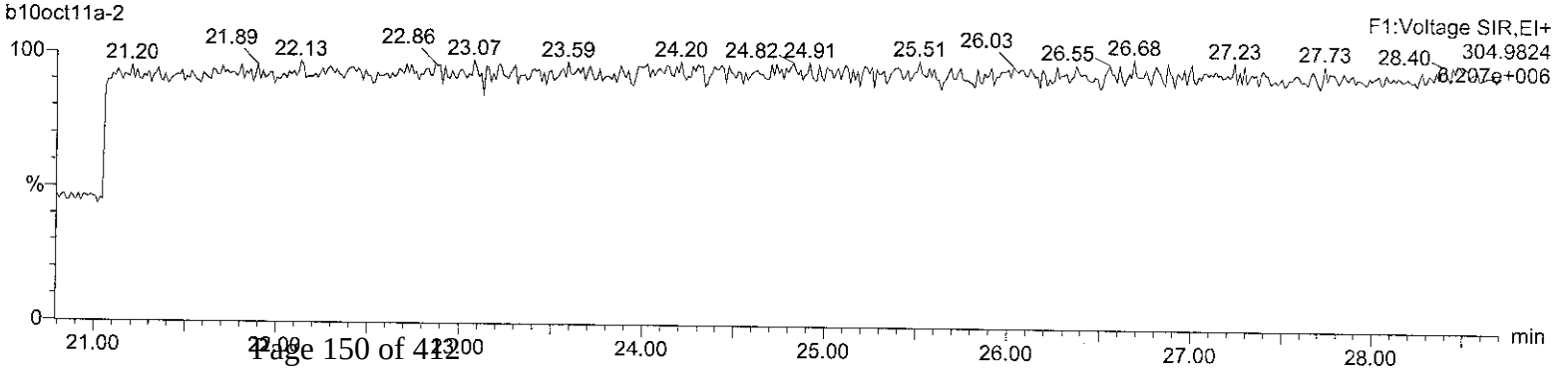
Total-pentafurans (F1)



HxDPE



Lock Mass F1



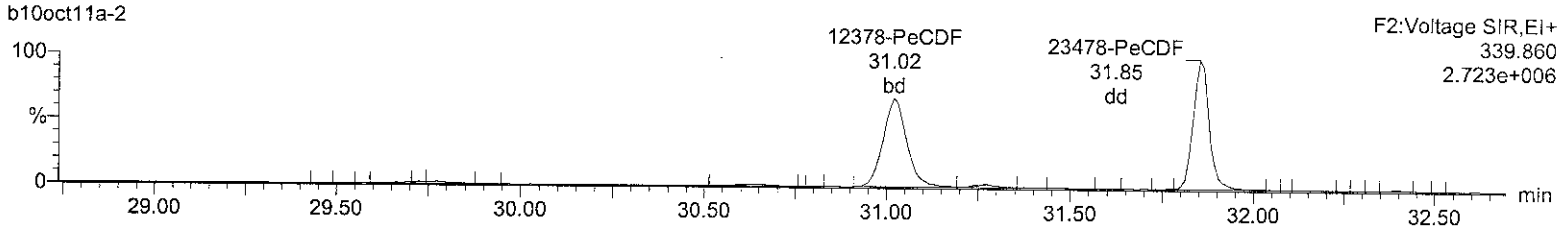
Quantify Sample Report **MassLynx 4.1**
Method 8290 Quantification Report

Dataset: C:\MassLynx\Default.pro\Sample Results\8290-b10oct11a.qld

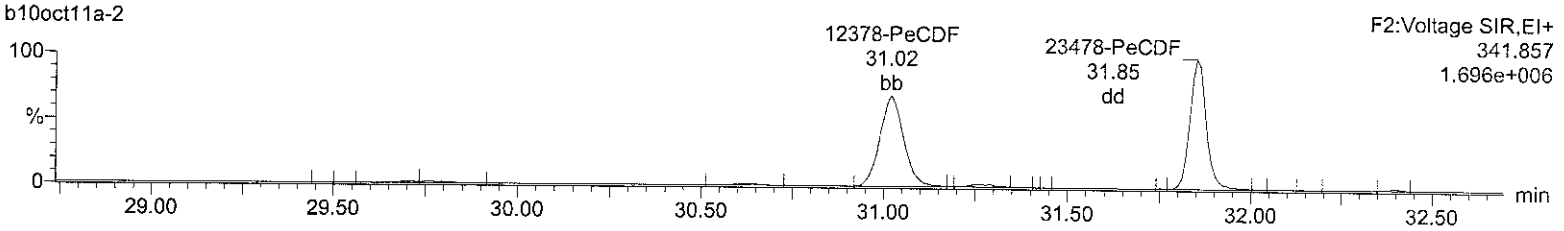
Last Altered: Tuesday, October 11, 2011 08:03:54 Eastern Standard Time
Printed: Tuesday, October 11, 2011 08:04:29 Eastern Standard Time

Name: b10oct11a-2, Date: 10-Oct-2011, Time: 14:05:30, ID: 12004340-1 LCS, Description: 19680, Job: HMS8290_1S, Task: HRP763_1, User: MJC

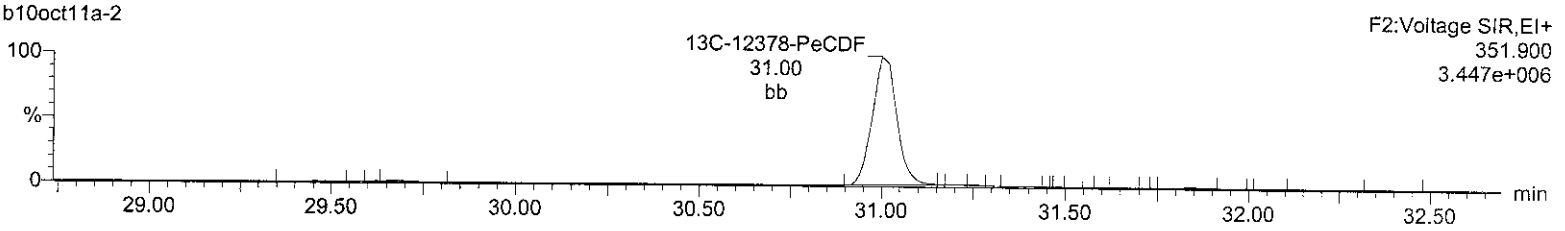
Total-pentafurans
b10oct11a-2



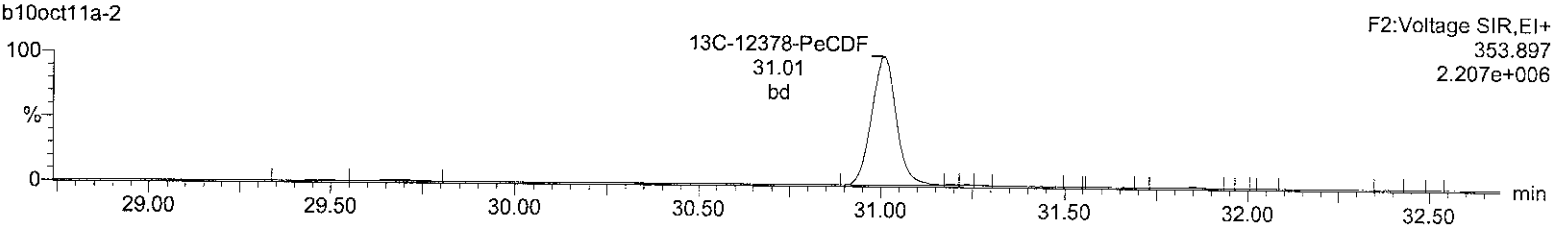
Total-pentafurans
b10oct11a-2



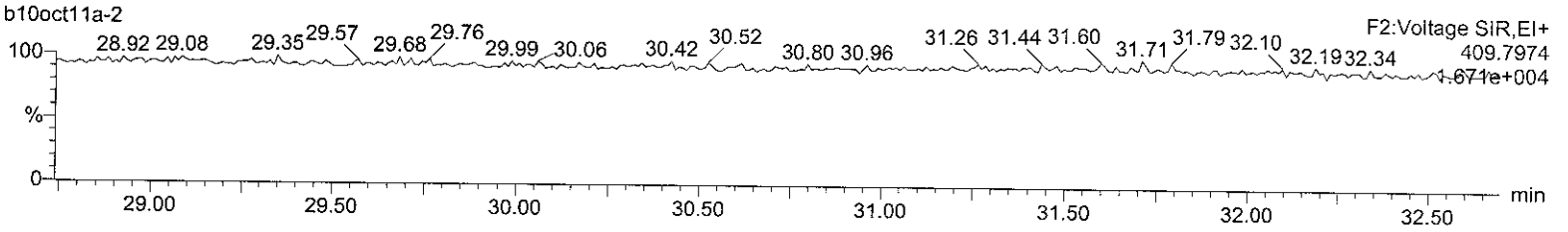
13C-12378-PeCDF
b10oct11a-2



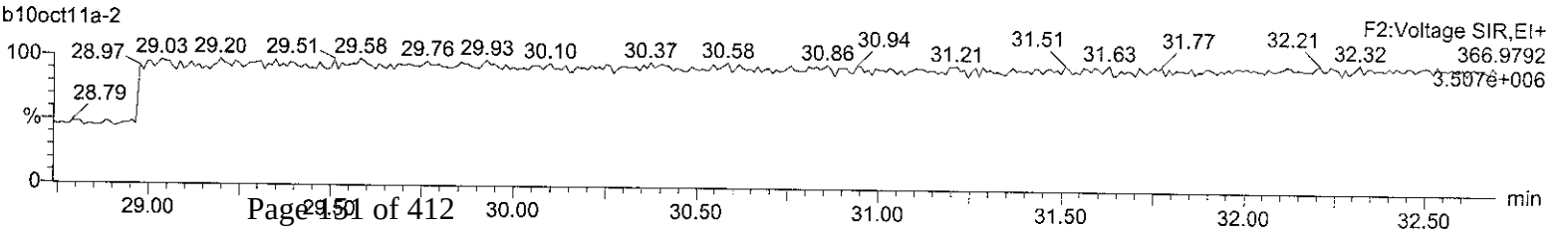
13C-12378-PeCDF
b10oct11a-2



HpDPE
b10oct11a-2



Lock Mass F2
b10oct11a-2



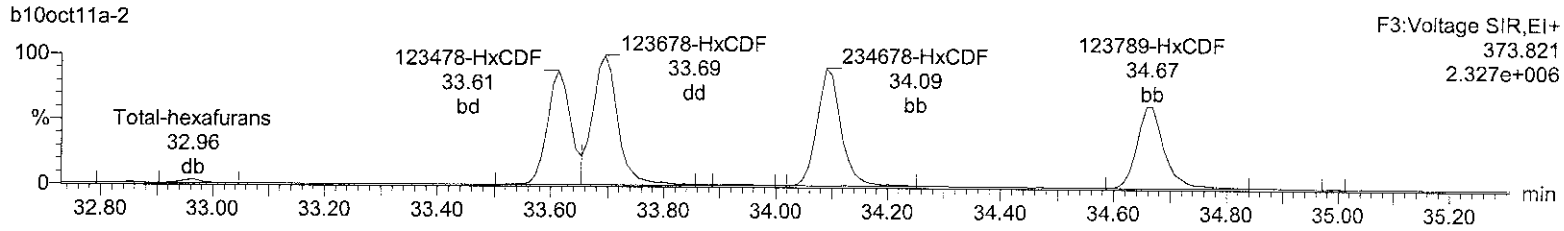
Quantify Sample Report **MassLynx 4.1**
Method 8290 Quantification Report

Dataset: C:\MassLynx\Default.pro\Sample Results\8290-b10oct11a.qld

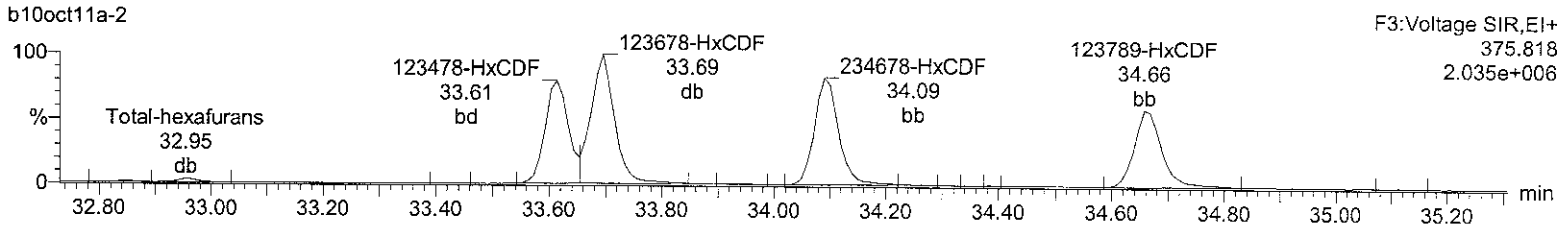
Last Altered: Tuesday, October 11, 2011 08:03:54 Eastern Standard Time
Printed: Tuesday, October 11, 2011 08:04:29 Eastern Standard Time

Name: b10oct11a-2, Date: 10-Oct-2011, Time: 14:05:30, ID: 12004340-1 LCS, Description: 19680, Job: HMS8290_1S, Task: HRP763_1, User: MJC

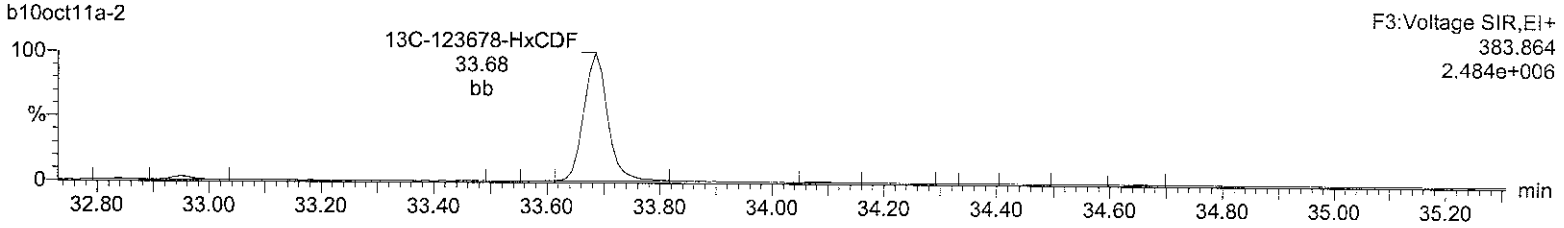
Total-hexafurans



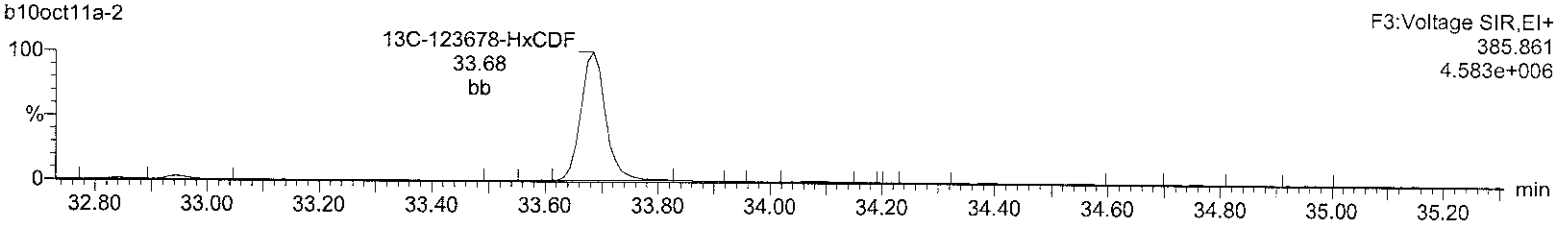
Total-hexafurans



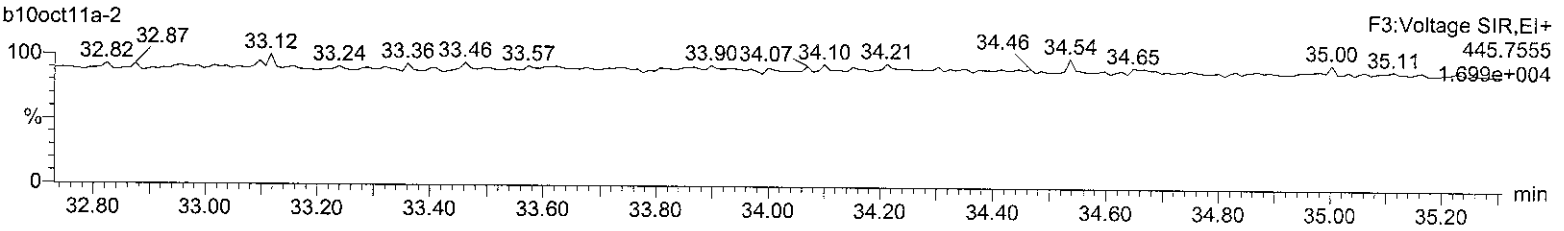
13C-123678-HxCDF



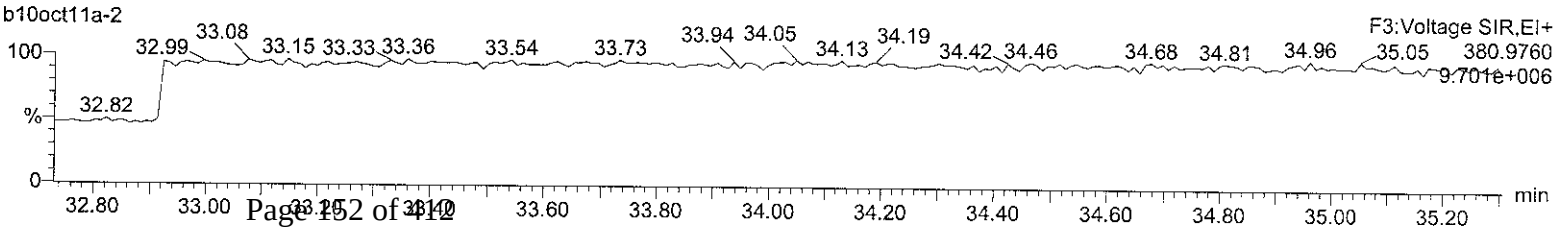
13C-123678-HxCDF



OcDPE



Lock Mass F3



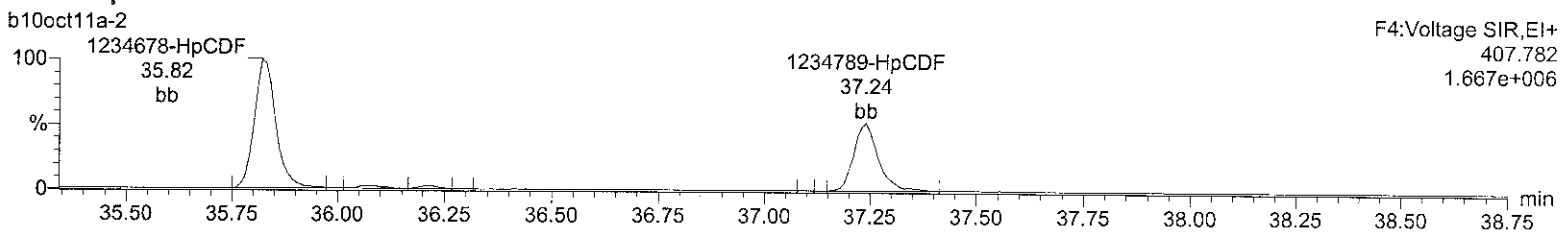
Quantify Sample Report **MassLynx 4.1**
Method 8290 Quantification Report

Dataset: C:\MassLynx\Default.pro\Sample Results\8290-b10oct11a.qld

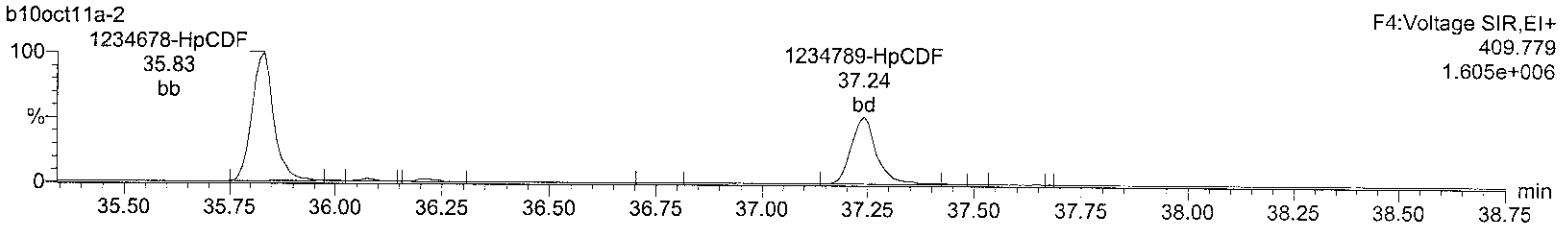
Last Altered: Tuesday, October 11, 2011 08:03:54 Eastern Standard Time
Printed: Tuesday, October 11, 2011 08:04:29 Eastern Standard Time

Name: b10oct11a-2, Date: 10-Oct-2011, Time: 14:05:30, ID: 12004340-1 LCS, Description: 19680, Job: HMS8290_1S, Task: HRP763_1, User: MJC

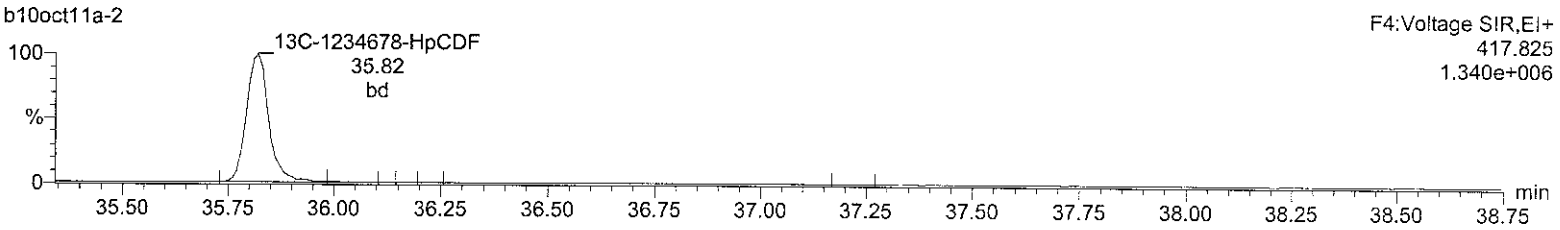
Total-heptafurans



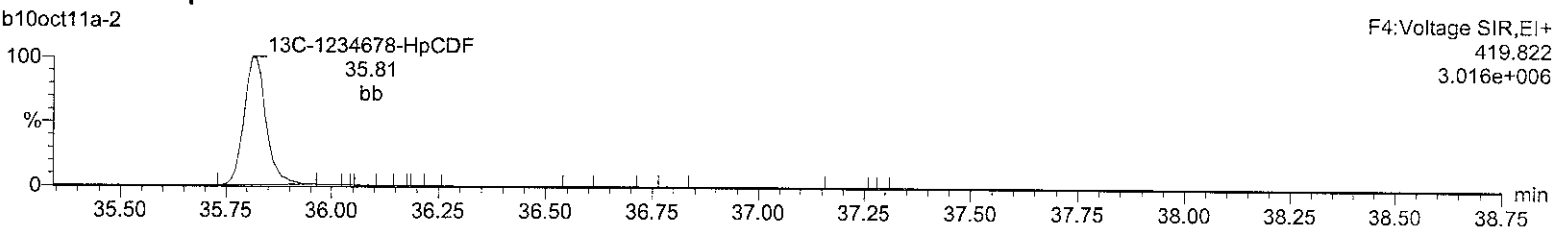
Total-heptafurans



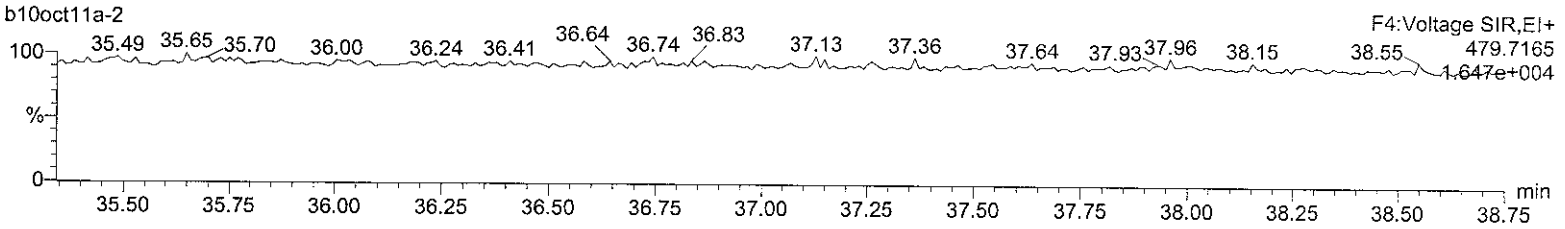
13C-1234678-HpCDF



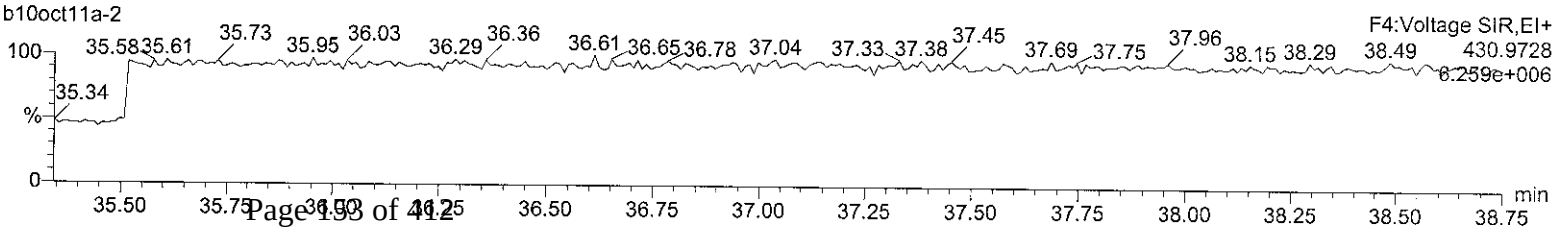
13C-1234678-HpCDF



NoDPE



Lock Mass F4



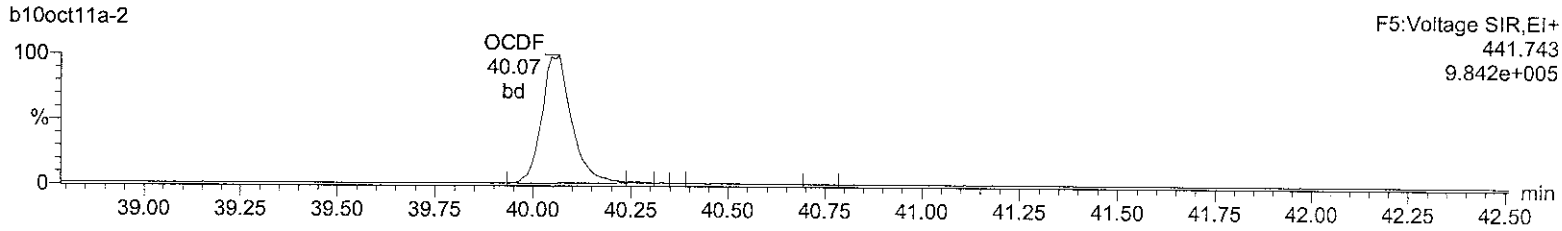
Quantify Sample Report **MassLynx 4.1**
Method 8290 Quantification Report

Dataset: C:\MassLynx\Default.pro\Sample Results\8290-b10oct11a.qld

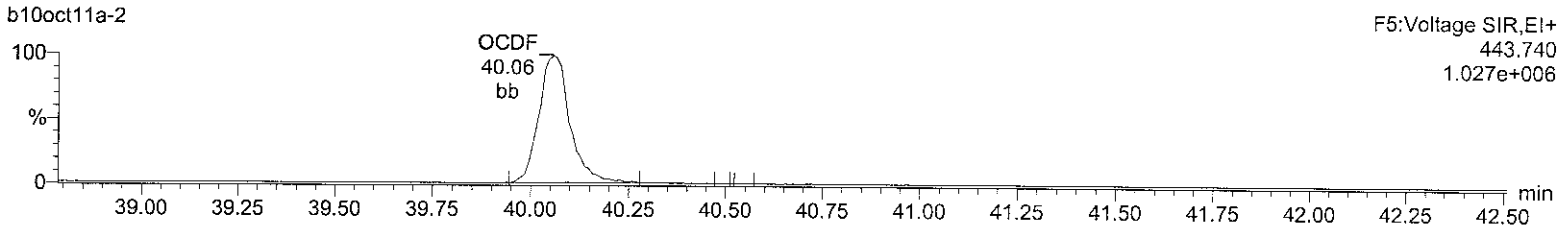
Last Altered: Tuesday, October 11, 2011 08:03:54 Eastern Standard Time
Printed: Tuesday, October 11, 2011 08:04:29 Eastern Standard Time

Name: b10oct11a-2, Date: 10-Oct-2011, Time: 14:05:30, ID: 12004340-1 LCS, Description: 19680, Job: HMS8290_1S, Task: HRP763_1, User: MJC

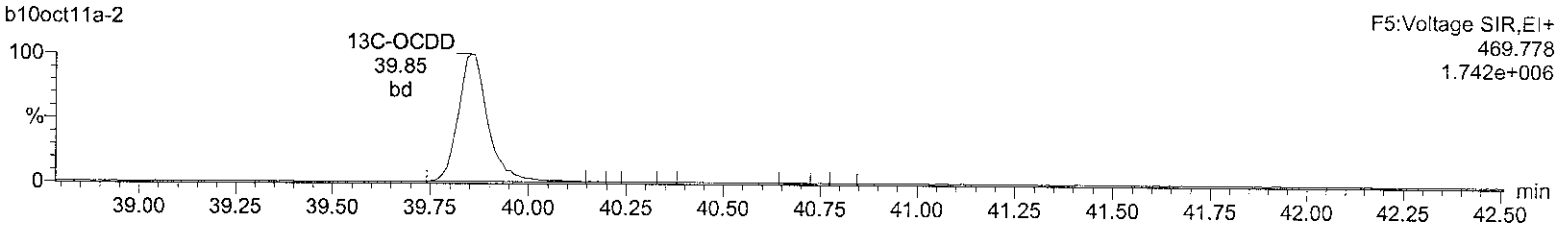
OCDF



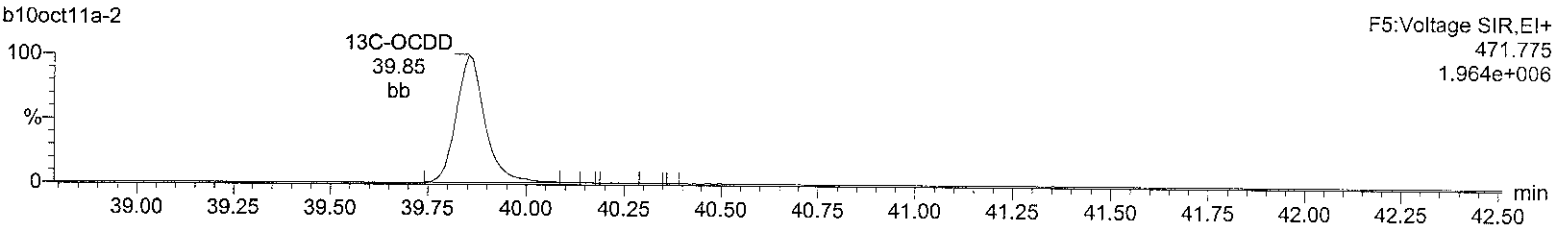
OCDF



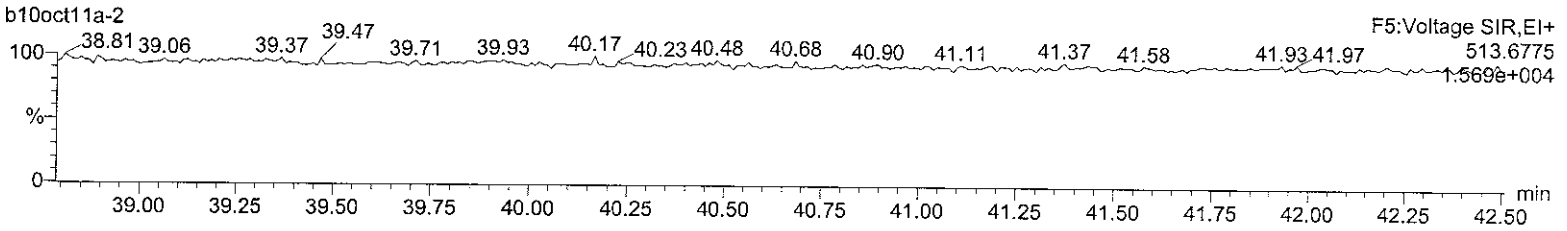
13C-OCDD



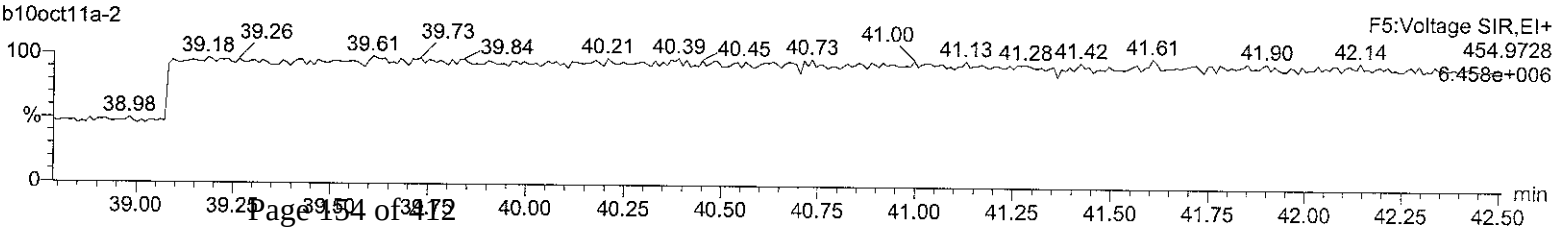
13C-OCDD



DeDPE



Lock Mass F5



Hi-Res Dioxins/Furans
Certificate of Analysis
Sample Summary

SDG Number:	**1109191**	**Client:**	**EMPI001**	**Project:**	**QC**
Lab Sample ID:	**12004403**			**Matrix:**	**WATER**
Client Sample:	**QC for batch 19665**				
Client ID:	**LCS for batch 19665**			**Prep Basis:**	**As Received**
Batch ID:	**19685**	**Method:**	**SW846 8290A**		
Run Date:	**10/11/2011 00:37**	**Analyst:**	**MJC**	**Instrument:**	**HRP763**
Data File:	**b10oct11a_2-1**			**Dilution:**	**1**
Prep Batch:	**19665**	**Prep Method:**	**SW846 3520C**		
Prep Date:	**04-OCT-11**	**Aliquot:**	**1000 mL**		

CAS No.	Parmname	Qual	Result	EMPC	Units	EDL	PQL
1746-01-6	2,3,7,8-TCDD		198		pg/L	2.50	10.0
40321-76-4	1,2,3,7,8-PeCDD		989		pg/L	1.92	50.0
39227-28-6	1,2,3,4,7,8-HxCDD		1030		pg/L	3.24	50.0
57653-85-7	1,2,3,6,7,8-HxCDD		1050		pg/L	3.00	50.0
19408-74-3	1,2,3,7,8,9-HxCDD		1150		pg/L	3.36	50.0
35822-46-9	1,2,3,4,6,7,8-HpCDD		986		pg/L	3.76	50.0
3268-87-9	1,2,3,4,6,7,8,9-OCDD		2090		pg/L	5.76	100
51207-31-9	2,3,7,8-TCDF		191		pg/L	2.50	10.0
57117-41-6	1,2,3,7,8-PeCDF		1070		pg/L	3.26	50.0
57117-31-4	2,3,4,7,8-PeCDF		1050		pg/L	3.34	50.0
70648-26-9	1,2,3,4,7,8-HxCDF		1040		pg/L	3.64	50.0
57117-44-9	1,2,3,6,7,8-HxCDF		1070		pg/L	3.12	50.0
72918-21-9	1,2,3,7,8,9-HxCDF		976		pg/L	4.18	50.0
60851-34-5	2,3,4,6,7,8-HxCDF		1070		pg/L	3.46	50.0
67562-39-4	1,2,3,4,6,7,8-HpCDF		1070		pg/L	4.16	50.0
55673-89-7	1,2,3,4,7,8,9-HpCDF		1180		pg/L	5.70	50.0
39001-02-0	1,2,3,4,6,7,8,9-OCDF		1630		pg/L	4.70	100

Surrogate/Tracer recovery	Qual	Result	Nominal	Units	Recovery%	Acceptable Limits
13C-2,3,7,8-TCDD		1570	2000	pg/L	78.6	(40%-135%)
13C-1,2,3,7,8-PeCDD		1610	2000	pg/L	80.5	(40%-135%)
13C-1,2,3,6,7,8-HxCDD		1470	2000	pg/L	73.7	(40%-135%)
13C-1,2,3,4,6,7,8-HpCDD		1930	2000	pg/L	96.4	(40%-135%)
13C-OCDD		3560	4000	pg/L	88.9	(40%-135%)
13C-2,3,7,8-TCDF		1560	2000	pg/L	78.0	(40%-135%)
13C-1,2,3,7,8-PeCDF		1370	2000	pg/L	68.3	(40%-135%)
13C-1,2,3,6,7,8-HxCDF		1190	2000	pg/L	59.7	(40%-135%)
13C-1,2,3,4,6,7,8-HpCDF		1230	2000	pg/L	61.7	(40%-135%)

Comments:

K Estimated Maximum Possible Concentration

Quantify Sample Summary Report **MassLynx 4.1**
Method 8290 Quantification Report

Dataset: C:\MassLynx\Default.pro\Sample Results\8290-b10oct11a_2.qld

Last Altered: Tuesday, October 11, 2011 13:39:25 Eastern Standard Time
Printed: Tuesday, October 11, 2011 13:51:37 Eastern Standard Time

HMP
11Oct11

Method: C:\MassLynx\Default.pro\Methdb\CFA_EPA8290_101011.mdb 10 Oct 2011 14:05:54
Calibration: C:\MassLynx\Default.pro\Curvedb\8290-b01nov10b.cdb 02 Nov 2010 08:19:01
12004403-1 19685 HMS8290-1L
Name: b10oct11a_2-1, Date: 11-Oct-2011, Time: 00:37:49, ID: 12004350-1 LCS, Description: 19684, Job: HMS8290_1L, Task: HRP763_1, User: MJC
" 19686 HMS8290TCL

	Name	Ion1Area	Ion2Area	Response	RT	RRT	RA	Fail?	pg/uL	EDL	Height1	Noise1	S/N1	Height2	Noise2	S/N2	M
1	2378-TCDD	1.72e4	2.25e4	3.96e4	26.62	1.001	0.76	NO	9.898	0.125	1.79e5	977	183.2	2.26e5	1079	209.0	bb
2	12378-PeCDD	1.07e5	6.85e4	1.75e5	32.09	1.000	1.56	NO	49.441	0.0959	2.52e6	1459	1728.5	1.55e6	1660	932.1	bb
3	123478-HxCDD	8.87e4	7.25e4	1.61e5	34.23	0.998	1.22	NO	51.707	0.162	2.19e6	3073	713.0	1.81e6	1708	1058.6	bd
4	123678-HxCDD	9.76e4	7.88e4	1.76e5	34.30	1.000	1.24	NO	52.420	0.150	2.15e6	3073	698.6	1.76e6	1708	1031.8	db
5	123789-HxCDD	9.62e4	7.65e4	1.73e5	34.48	1.005	1.26	NO	57.397	0.168	2.15e6	3073	701.0	1.75e6	1708	1022.8	bd
6	1234678-HpCDD	8.28e4	7.93e4	1.62e5	36.81	1.000	1.05	NO	49.290	0.188	1.44e6	1898	757.2	1.38e6	2337	591.5	bb
7	OCDD	1.25e5	1.37e5	2.62e5	39.91	1.001	0.91	NO	104.338	0.288	1.59e6	1892	838.6	1.76e6	1716	1024.6	bb
8	2378-TCDF	2.61e4	3.39e4	5.99e4	25.70	1.001	0.77	NO	9.559	0.125	2.83e5	1456	194.8	3.52e5	1735	202.9	bd
9	12378-PeCDF	1.57e5	1.02e5	2.59e5	31.07	1.001	1.54	NO	53.323	0.163	2.20e6	2455	895.8	1.41e6	2027	697.4	bb
10	23478-PeCDF	1.53e5	9.72e4	2.50e5	31.88	1.027	1.57	NO	52.702	0.167	3.35e6	2455	1364.3	2.07e6	2027	1022.3	db
11	123478-HxCDF	1.09e5	8.68e4	1.95e5	33.64	0.998	1.25	NO	52.078	0.182	2.63e6	3118	842.8	2.06e6	3280	628.1	bd
12	123678-HxCDF	1.31e5	1.04e5	2.35e5	33.73	1.000	1.25	NO	53.727	0.156	3.09e6	3118	992.2	2.44e6	3280	743.0	db
13	234678-HxCDF	1.17e5	9.37e4	2.11e5	34.12	1.012	1.25	NO	53.393	0.173	2.72e6	3118	871.0	2.22e6	3280	676.4	bd
14	123789-HxCDF	8.82e4	7.12e4	1.59e5	34.70	1.029	1.24	NO	48.780	0.209	1.71e6	3118	547.4	1.47e6	3280	449.3	bd
15	1234678-HpCDF	9.77e4	9.53e4	1.93e5	35.86	1.000	1.02	NO	53.471	0.208	1.87e6	2932	638.9	1.89e6	2904	650.2	bb
16	1234789-HpCDF	7.90e4	7.56e4	1.55e5	37.27	1.040	1.05	NO	58.821	0.285	1.27e6	2932	432.2	1.22e6	2904	420.0	bb
17	OCDF	1.19e5	1.34e5	2.53e5	40.10	1.005	0.89	NO	81.576	0.235	1.48e6	2012	733.3	1.62e6	1643	988.0	bd
18	13C-2378-TCDD	1.74e5	2.21e5	3.95e5	26.59	1.028	0.79	NO	78.636	0.209	1.79e6	2604	687.8	2.27e6	1805	1255.9	bb
19	13C-12378-PeCDD	2.08e5	1.35e5	3.43e5	32.08	1.240	1.54	NO	80.483	0.228	4.78e6	2122	2251.5	3.21e6	1952	1646.1	bb
20	13C-123678-HxCDD	1.93e5	1.55e5	3.48e5	34.29	0.995	1.24	NO	73.738	0.135	4.56e6	2704	1687.0	3.59e6	2807	1278.7	bb
21	13C-1234678-HpCDD	1.68e5	1.59e5	3.27e5	36.80	1.068	1.05	NO	96.420	0.171	2.88e6	2505	1148.5	2.80e6	2521	1112.2	bb
22	13C-OCDD	2.39e5	2.65e5	5.04e5	39.89	1.157	0.90	NO	177.801	0.148	2.99e6	1684	1776.4	3.28e6	1937	1690.7	bb
23	13C-2378-TCDF	2.84e5	3.54e5	6.38e5	25.67	0.992	0.80	NO	77.979	0.103	2.88e6	1426	2019.4	3.57e6	2095	1706.3	bb
24	13C-12378-PeCDF	3.17e5	2.02e5	5.19e5	31.05	1.200	1.57	NO	68.338	0.150	4.48e6	2143	2090.6	2.84e6	2650	1071.5	bb
25	13C-123678-HxCDF	1.44e5	2.69e5	4.13e5	33.72	0.978	0.53	NO	59.708	0.0935	3.37e6	2910	1157.7	6.35e6	2682	2368.2	bb
26	13C-1234678-HpCDF	8.84e4	1.94e5	2.83e5	35.85	1.040	0.46	NO	61.669	0.107	1.72e6	1678	1026.8	3.75e6	2551	1470.0	bb
27	13C-1234-TCDD	1.99e5	2.49e5	4.49e5	25.87	0.000	0.80	NO	100.000	0.234	2.09e6	2604	802.6	2.55e6	1805	1410.1	bb
28	13C-123789-HxCDD	2.36e5	1.88e5	4.24e5	34.47	0.000	1.25	NO	100.000	0.150	5.10e6	2704	1885.7	4.16e6	2807	1480.7	bb
29	37Cl-2378-TCDD (SS)	1.88e2		1.88e2	26.60	1.000			0.045	0.0634	5.41e3	1087	5.0				bd
30	13C-23478-PeCDF (SS)	1.16e3	6.48e2	1.81e3	31.87	1.026	1.79	YES	0.372	0.175	2.60e4	2143	12.1	1.30e4	2650	4.9	bb

Quantify Sample Report **MassLynx 4.1**
Method 8290 Quantification Report

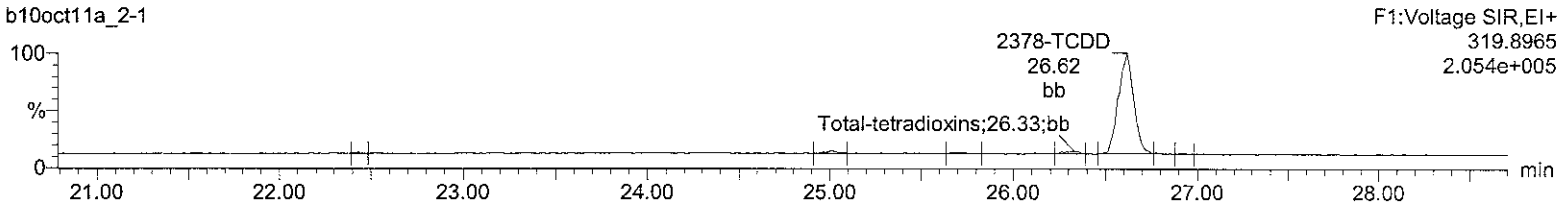
Dataset: C:\MassLynx\Default.pro\Sample Results\8290-b10oct11a_2.qld

Last Altered: Tuesday, October 11, 2011 13:39:25 Eastern Standard Time
Printed: Tuesday, October 11, 2011 13:40:15 Eastern Standard Time

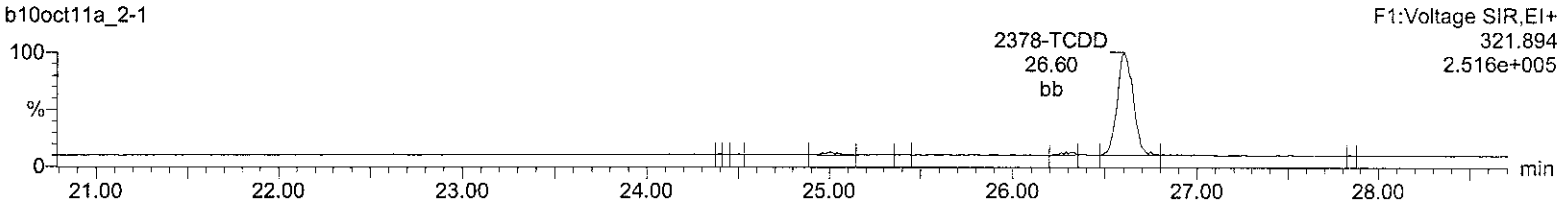
Method: C:\MassLynx\Default.pro\Methdb\CFA_EPA8290_101011.mdb 10 Oct 2011 14:05:54
Calibration: C:\MassLynx\Default.pro\Curvedb\8290-b01nov10b.cdb 02 Nov 2010 08:19:01

Name: b10oct11a_2-1, Date: 11-Oct-2011, Time: 00:37:49, ID: 12004350-1 LCS, Description: 19684, Job: HMS8290_1L, Task: HRP763_1, User: MJC

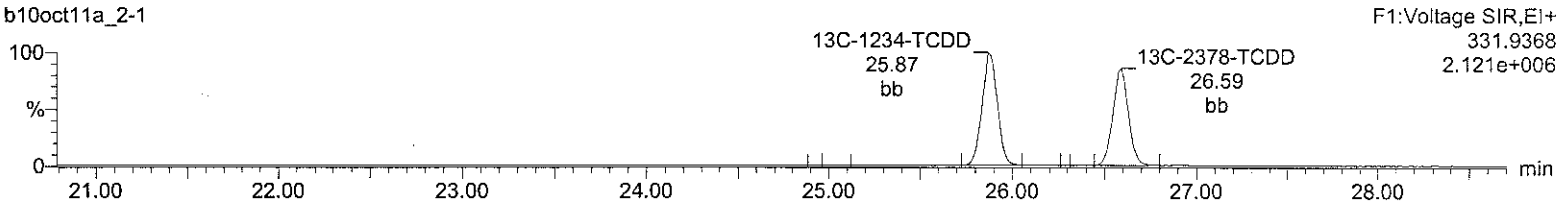
Total-tetradioxins



Total-tetradioxins



13C-2378-TCDD



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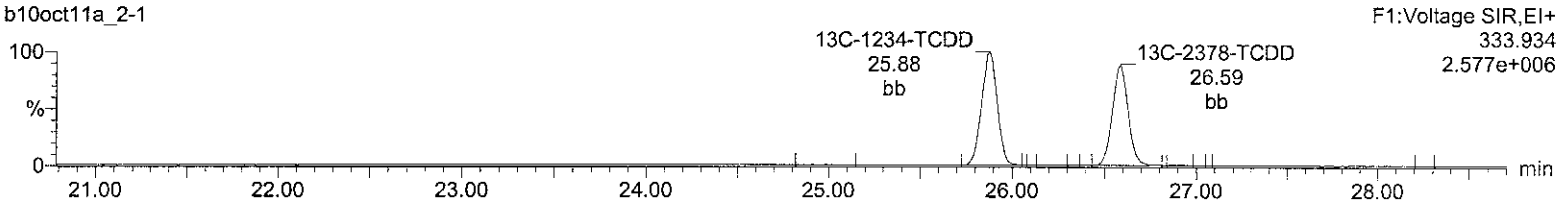
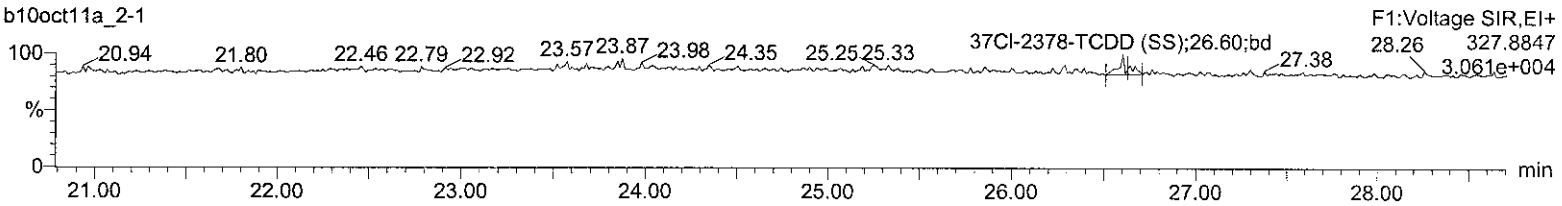
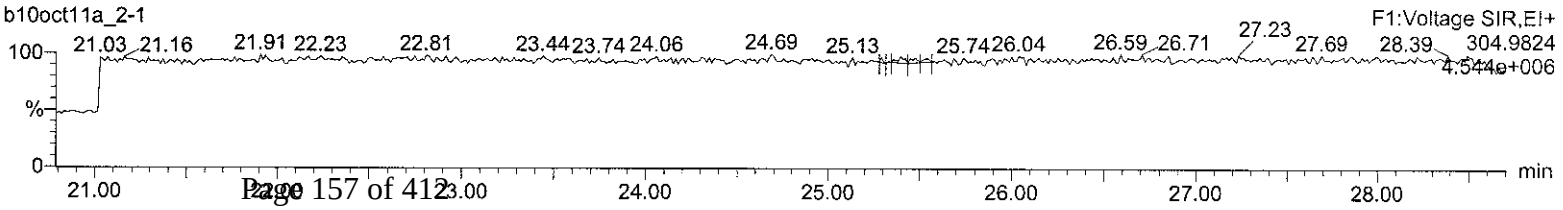


37Cl-2378-TCDD (SS)



Lock Mass F1



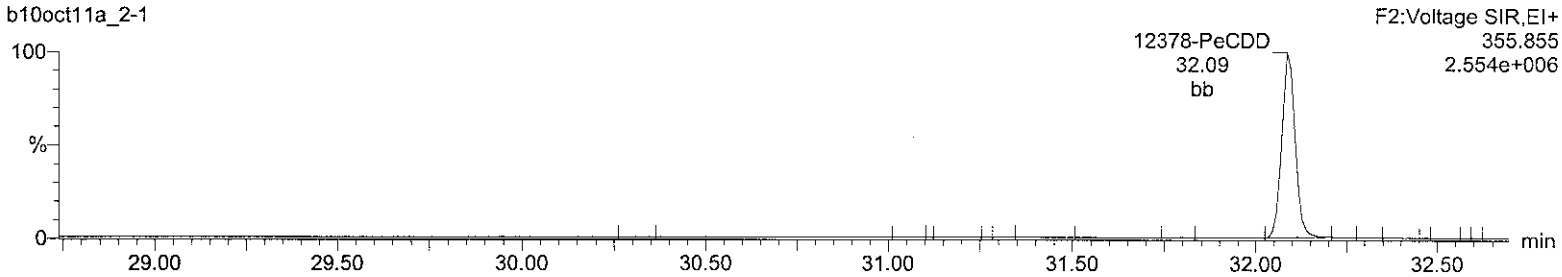
Quantify Sample Report **MassLynx 4.1**
Method 8290 Quantification Report

Dataset: C:\MassLynx\Default.pro\Sample Results\8290-b10oct11a_2.qld

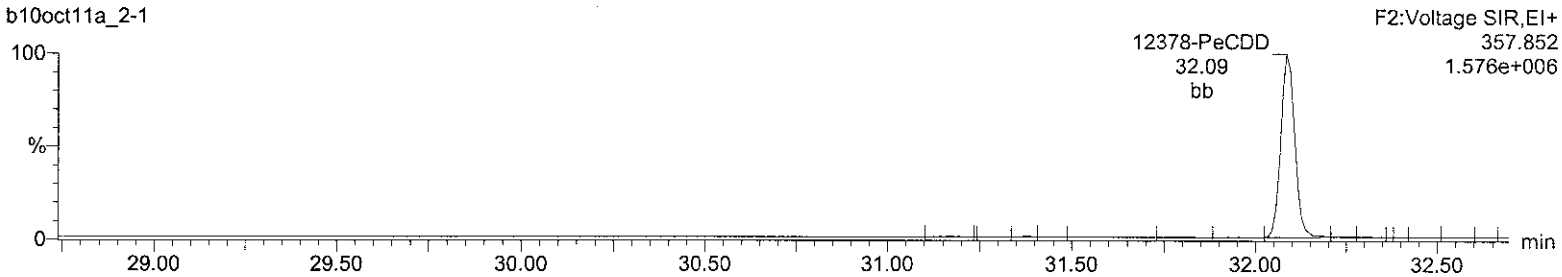
Last Altered: Tuesday, October 11, 2011 13:39:25 Eastern Standard Time
Printed: Tuesday, October 11, 2011 13:40:15 Eastern Standard Time

Name: b10oct11a_2-1, Date: 11-Oct-2011, Time: 00:37:49, ID: 12004350-1 LCS, Description: 19684, Job: HMS8290_1L, Task: HRP763_1, User: MJC

Total-pentadioxins



Total-pentadioxins



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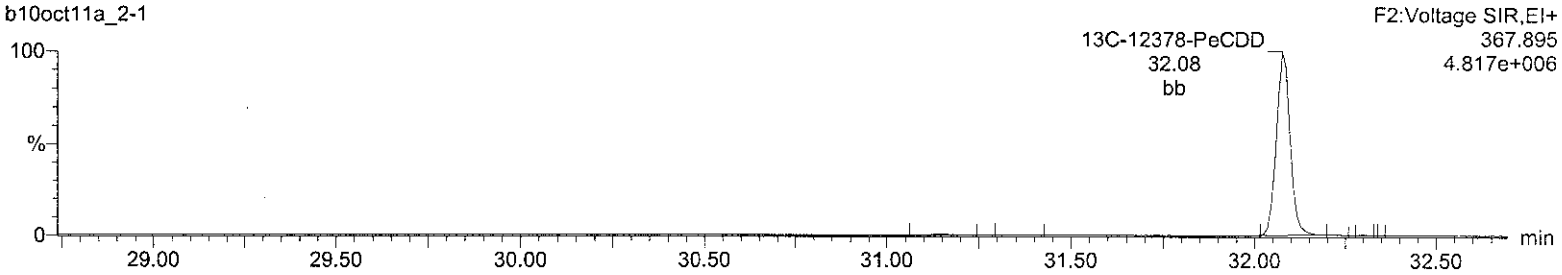

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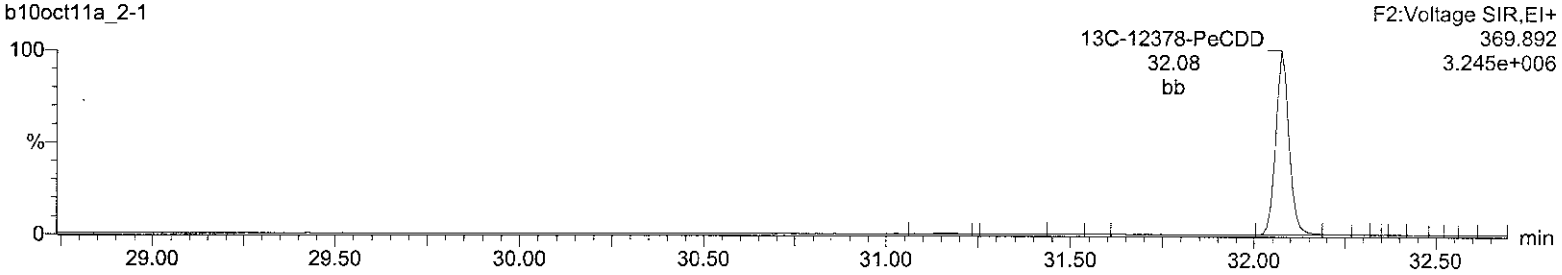
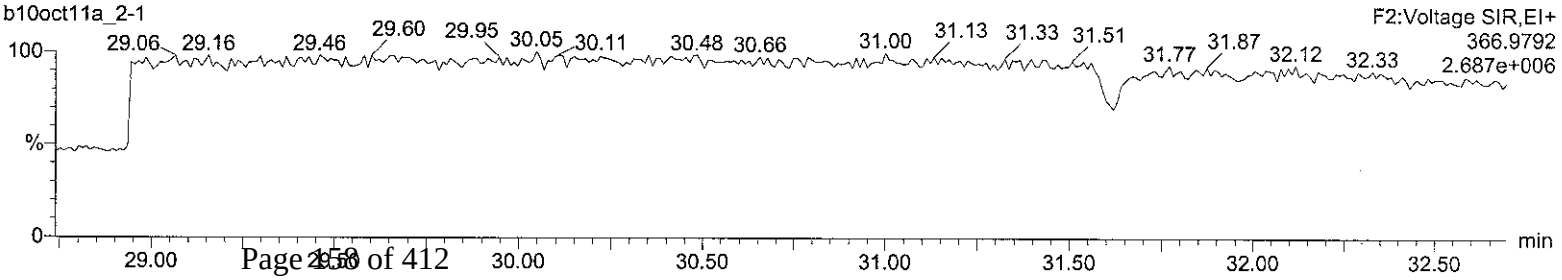


Lock Mass F2



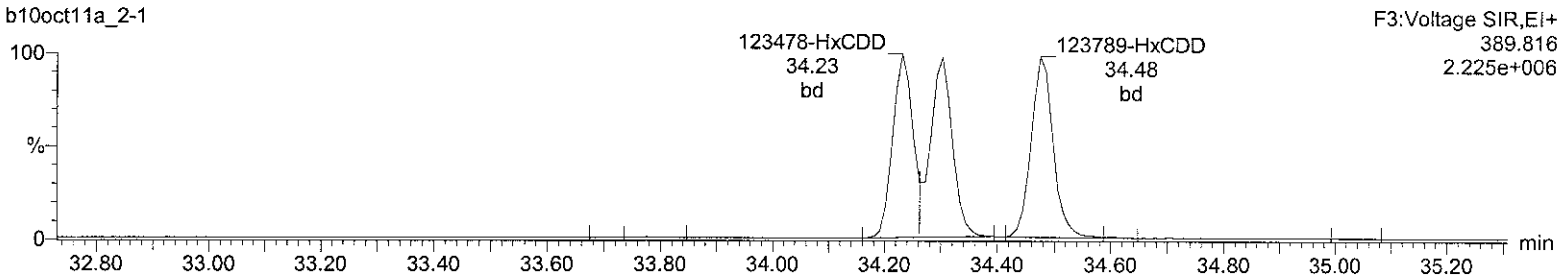
Quantify Sample Report **MassLynx 4.1**
Method 8290 Quantification Report

Dataset: C:\MassLynx\Default.pro\Sample Results\8290-b10oct11a_2.qld

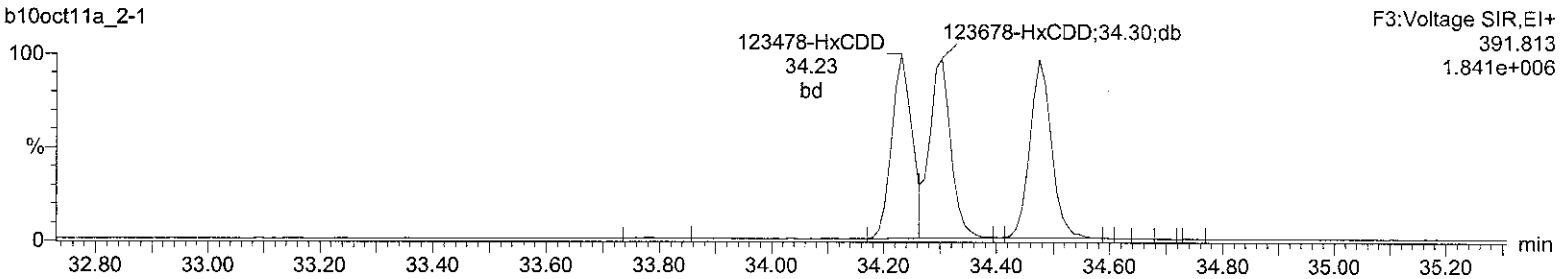
Last Altered: Tuesday, October 11, 2011 13:39:25 Eastern Standard Time
Printed: Tuesday, October 11, 2011 13:40:15 Eastern Standard Time

Name: b10oct11a_2-1, Date: 11-Oct-2011, Time: 00:37:49, ID: 12004350-1 LCS, Description: 19684, Job: HMS8290_1L, Task: HRP763_1, User: MJC

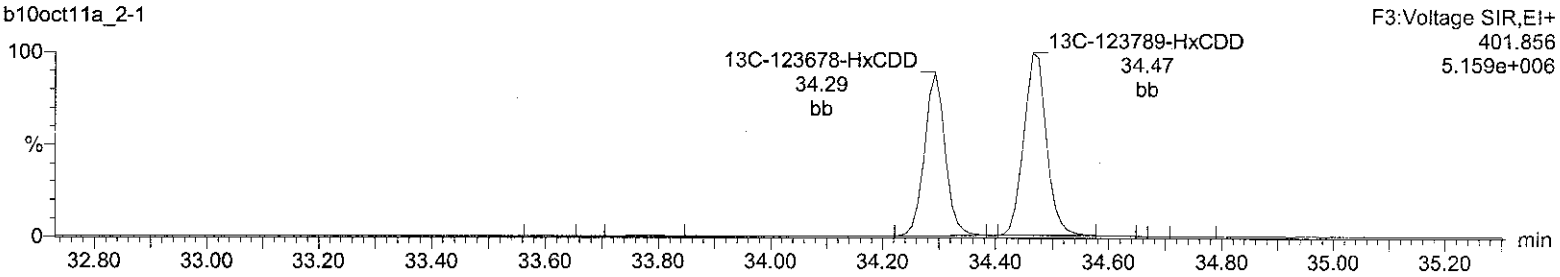
Total-hexadioxins



Total-hexadioxins



13C-123678-HxCDD



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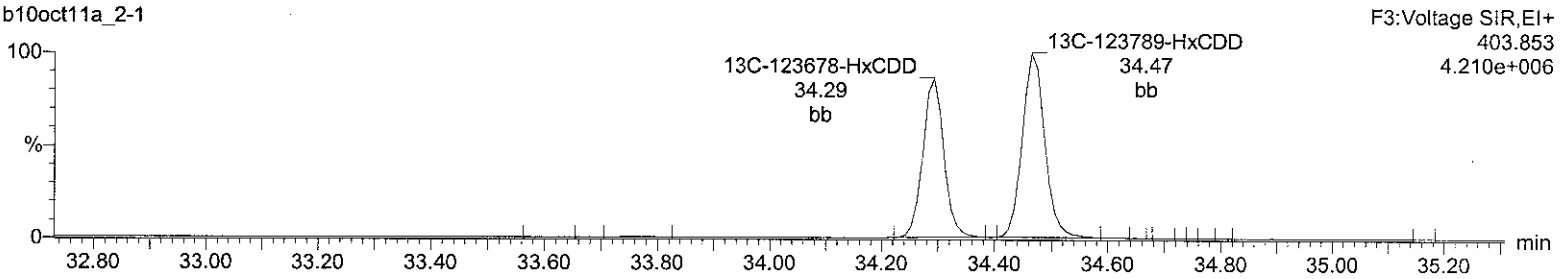
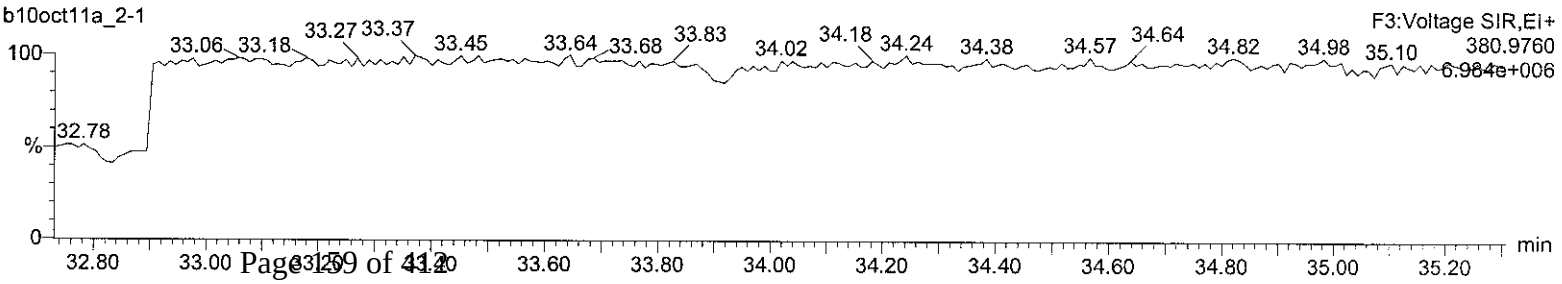


Lock Mass F3



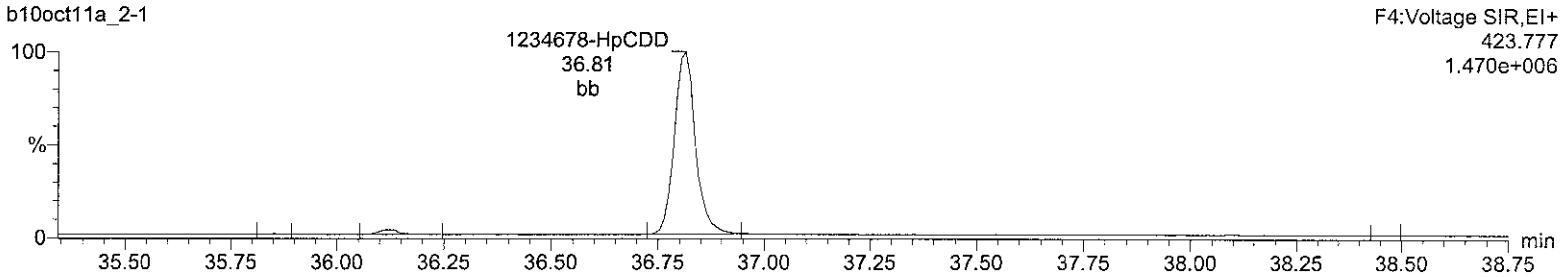
Quantify Sample Report **MassLynx 4.1**
Method 8290 Quantification Report

Dataset: C:\MassLynx\Default.pro\Sample Results\8290-b10oct11a_2.qld

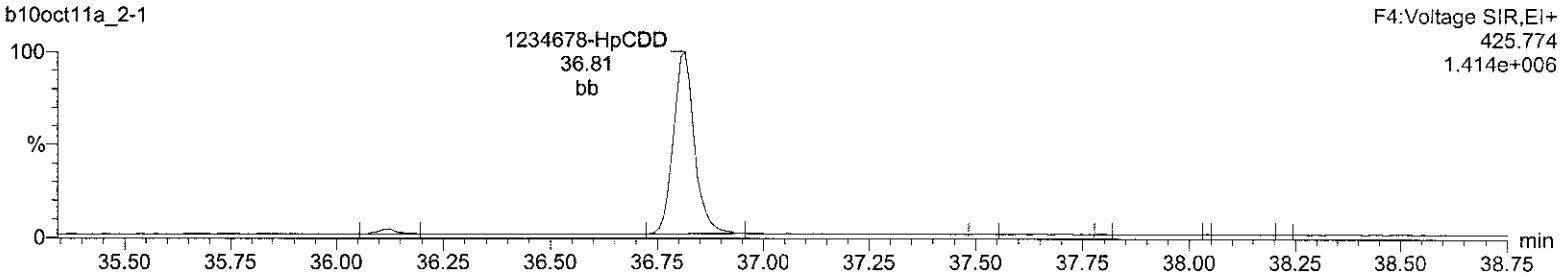
Last Altered: Tuesday, October 11, 2011 13:39:25 Eastern Standard Time
Printed: Tuesday, October 11, 2011 13:40:15 Eastern Standard Time

Name: b10oct11a_2-1, Date: 11-Oct-2011, Time: 00:37:49, ID: 12004350-1 LCS, Description: 19684, Job: HMS8290_1L, Task: HRP763_1, User: MJC

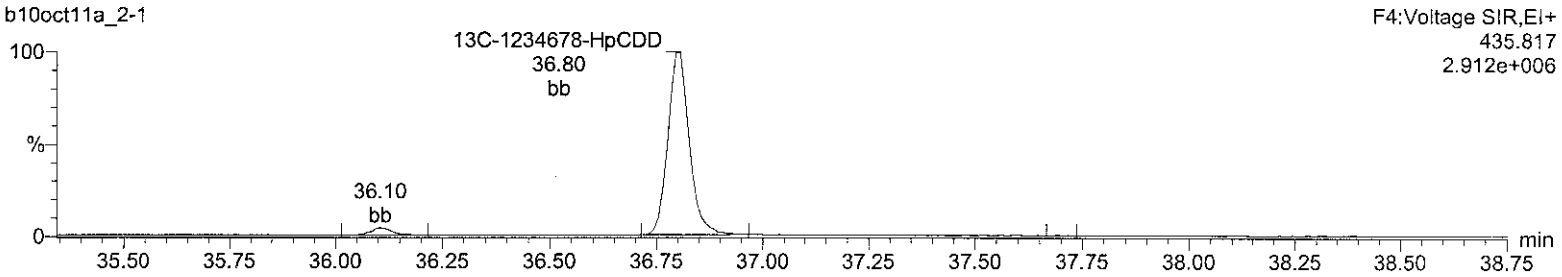
Total-heptadioxins



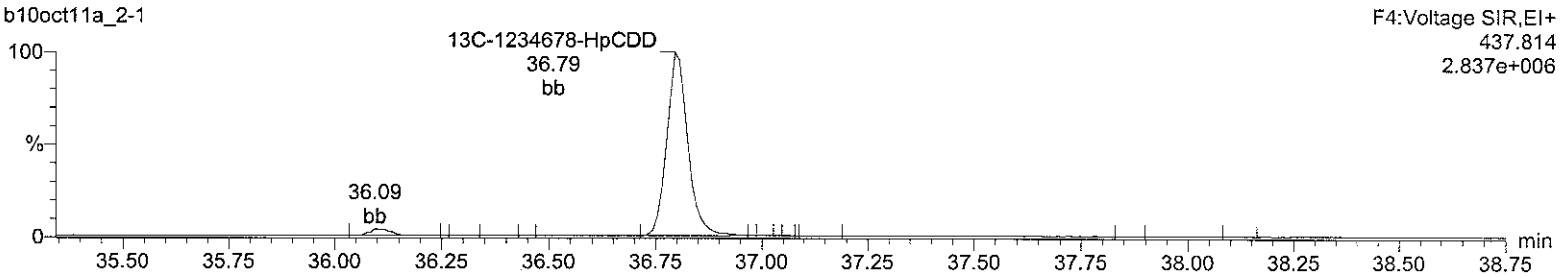
Total-heptadioxins



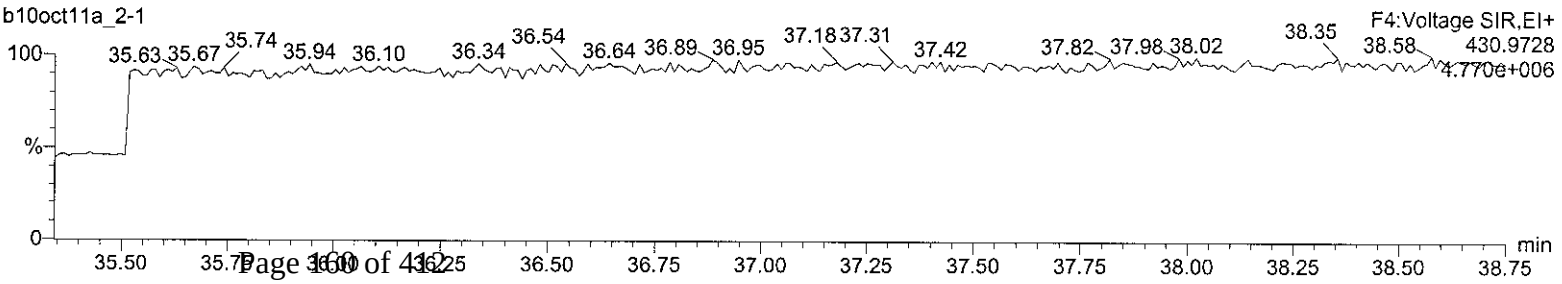
13C-1234678-HpCDD



13C-1234678-HpCDD



Lock Mass F4



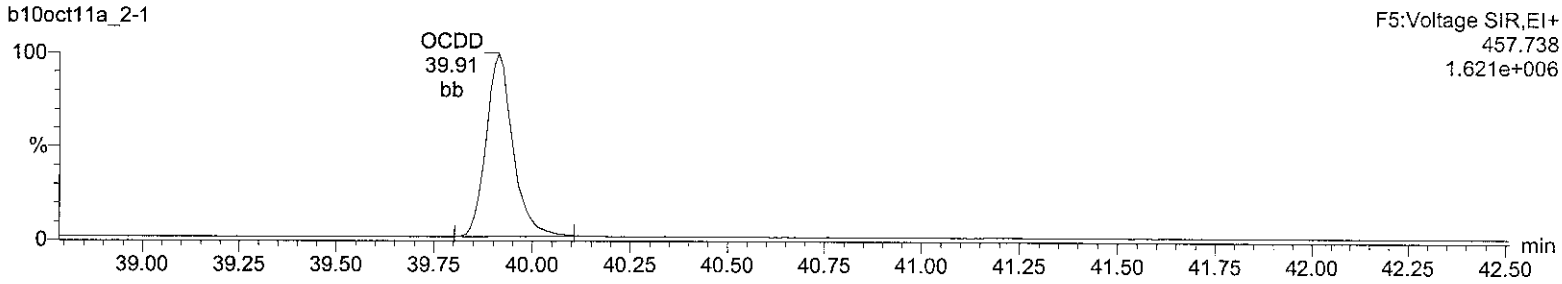
Quantify Sample Report **MassLynx 4.1**
Method 8290 Quantification Report

Dataset: C:\MassLynx\Default.pro\Sample Results\8290-b10oct11a_2.qld

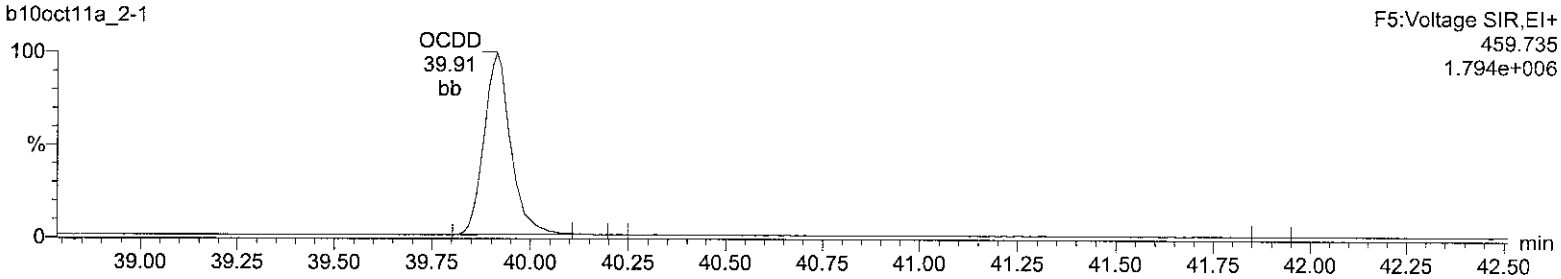
Last Altered: Tuesday, October 11, 2011 13:39:25 Eastern Standard Time
Printed: Tuesday, October 11, 2011 13:40:15 Eastern Standard Time

Name: b10oct11a_2-1, Date: 11-Oct-2011, Time: 00:37:49, ID: 12004350-1 LCS, Description: 19684, Job: HMS8290_1L, Task: HRP763_1, User: MJC

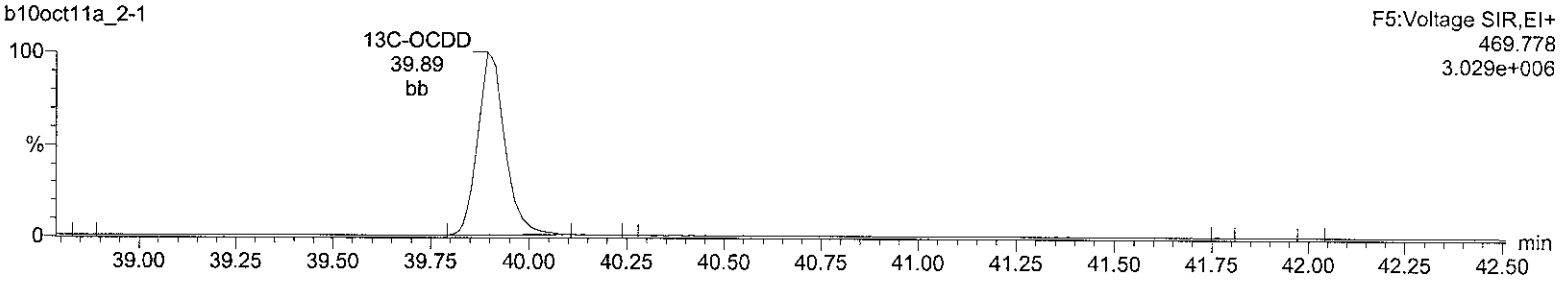
OCDD



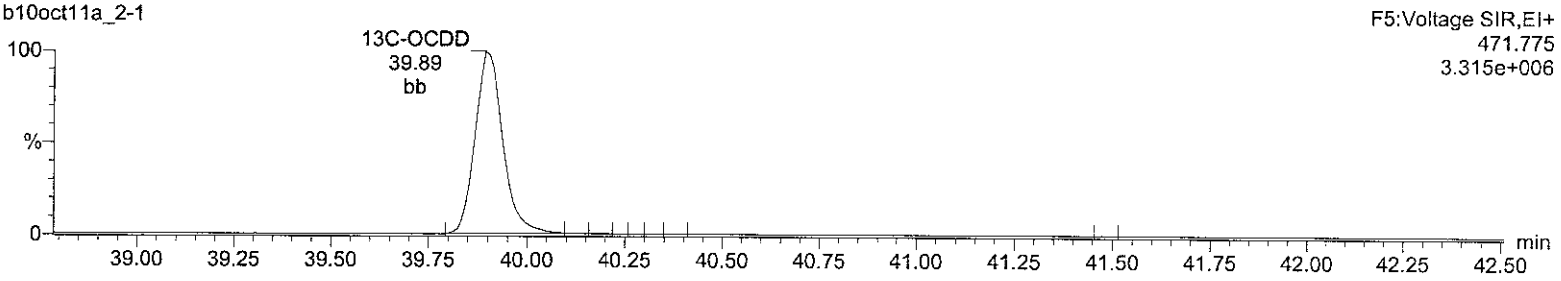
OCDD



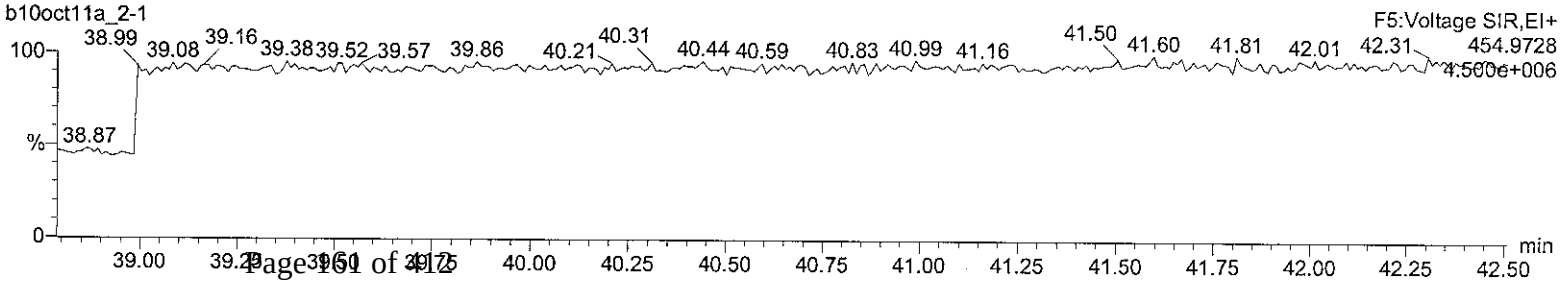
13C-OCDD



13C-OCDD



Lock Mass F5



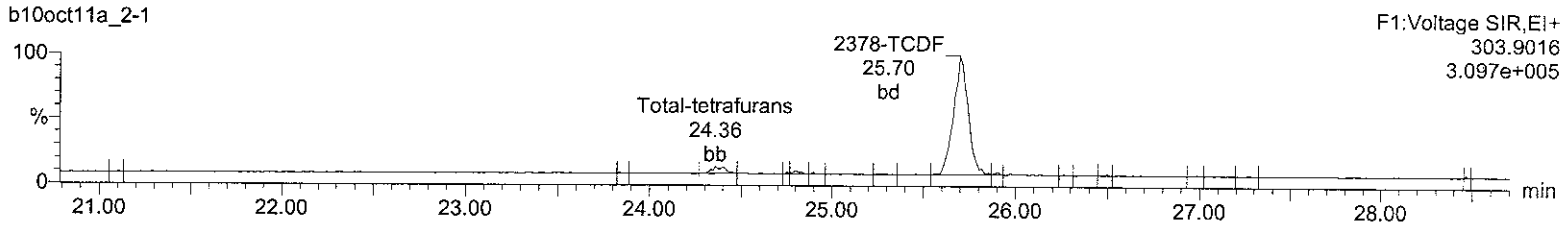
Quantify Sample Report **MassLynx 4.1**
Method 8290 Quantification Report

Dataset: C:\MassLynx\Default.pro\Sample Results\8290-b10oct11a_2.qld

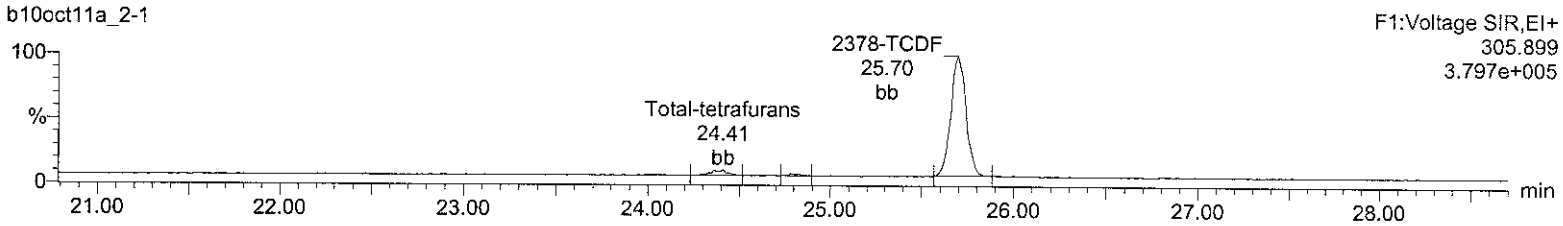
Last Altered: Tuesday, October 11, 2011 13:39:25 Eastern Standard Time
Printed: Tuesday, October 11, 2011 13:40:15 Eastern Standard Time

Name: b10oct11a_2-1, Date: 11-Oct-2011, Time: 00:37:49, ID: 12004350-1 LCS, Description: 19684, Job: HMS8290_1L, Task: HRP763_1, User: MJC

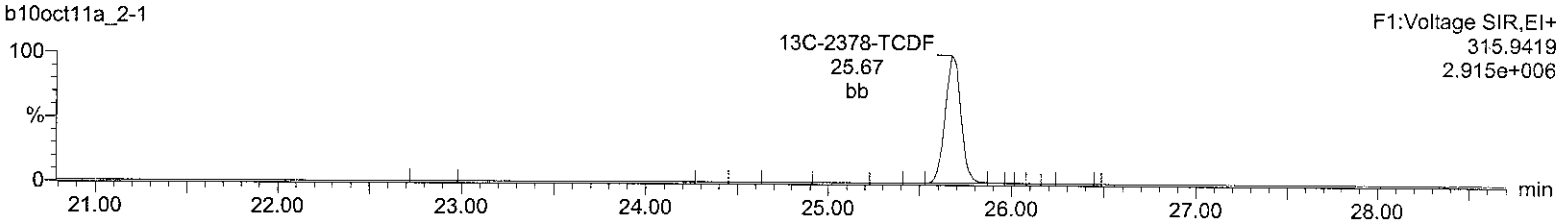
Total-tetrafurans



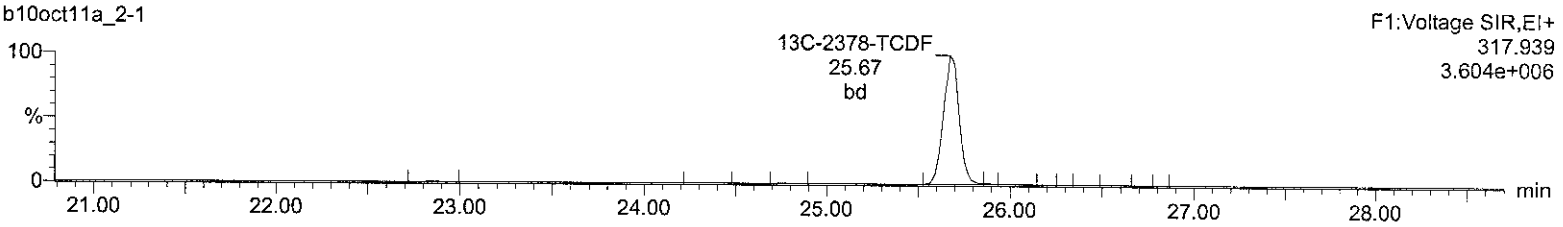
Total-tetrafurans



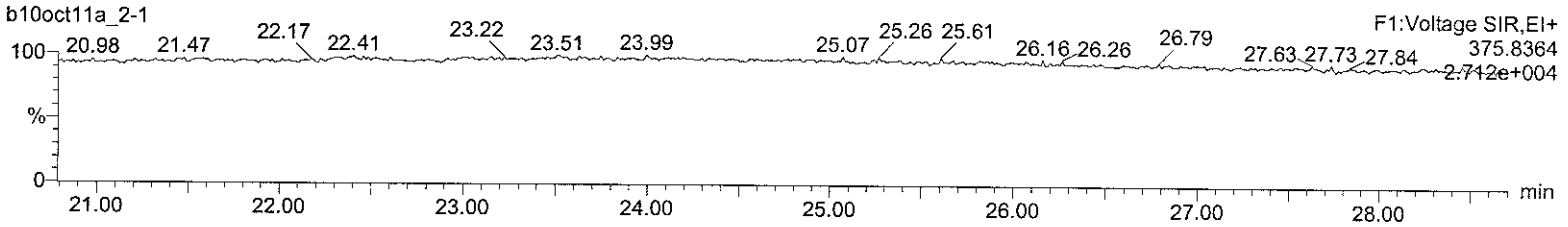
13C-2378-TCDF



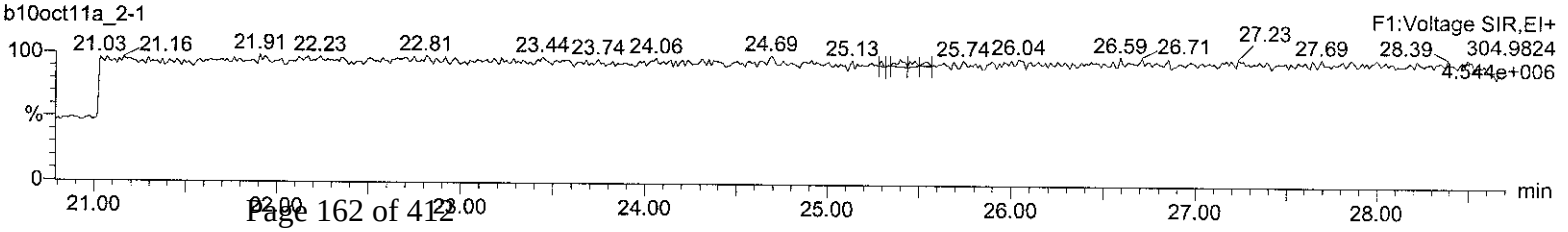
13C-2378-TCDF



HxDPE



Lock Mass F1



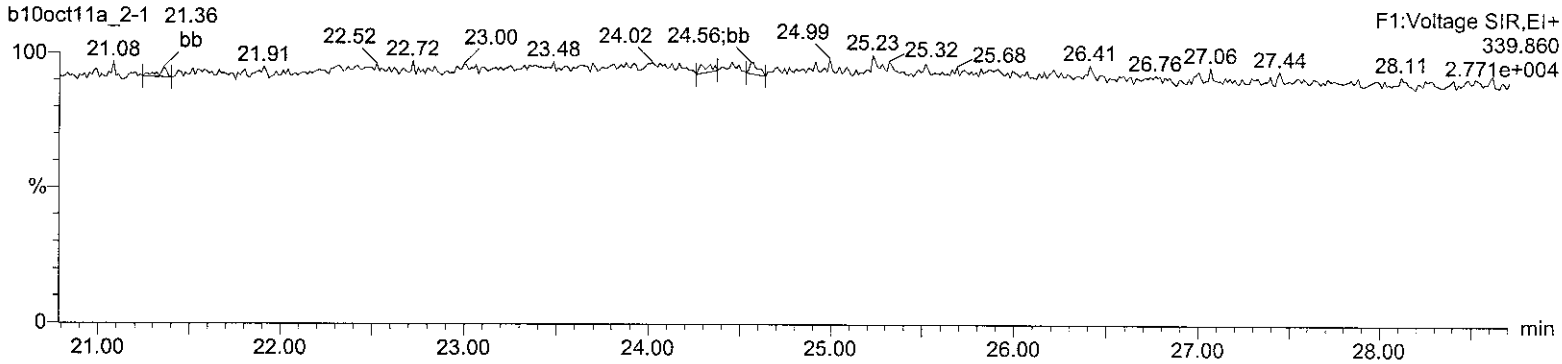
Quantify Sample Report **MassLynx 4.1**
Method 8290 Quantification Report

Dataset: C:\MassLynx\Default.pro\Sample Results\8290-b10oct11a_2.qld

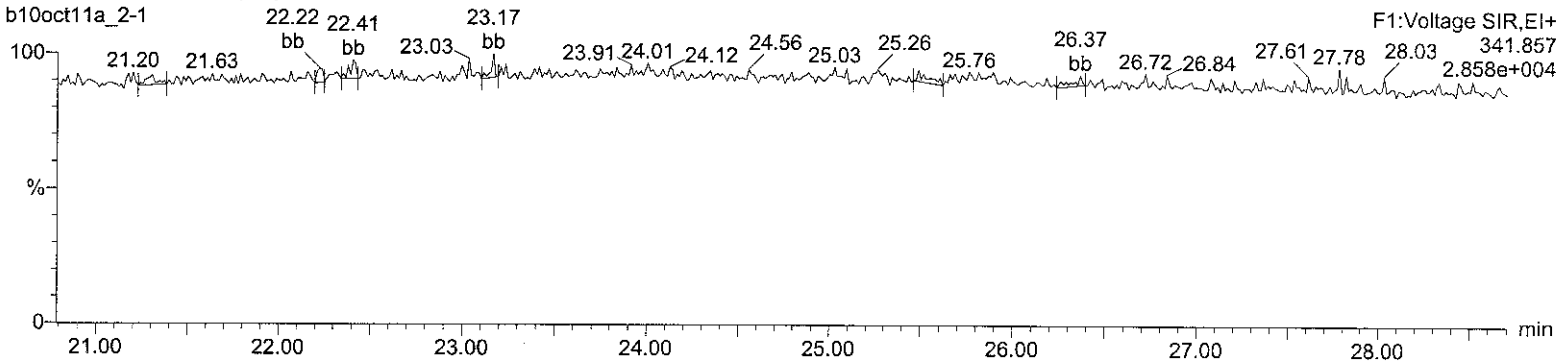
Last Altered: Tuesday, October 11, 2011 13:39:25 Eastern Standard Time
Printed: Tuesday, October 11, 2011 13:40:15 Eastern Standard Time

Name: b10oct11a_2-1, Date: 11-Oct-2011, Time: 00:37:49, ID: 12004350-1 LCS, Description: 19684, Job: HMS8290_1L, Task: HRP763_1, User: MJC

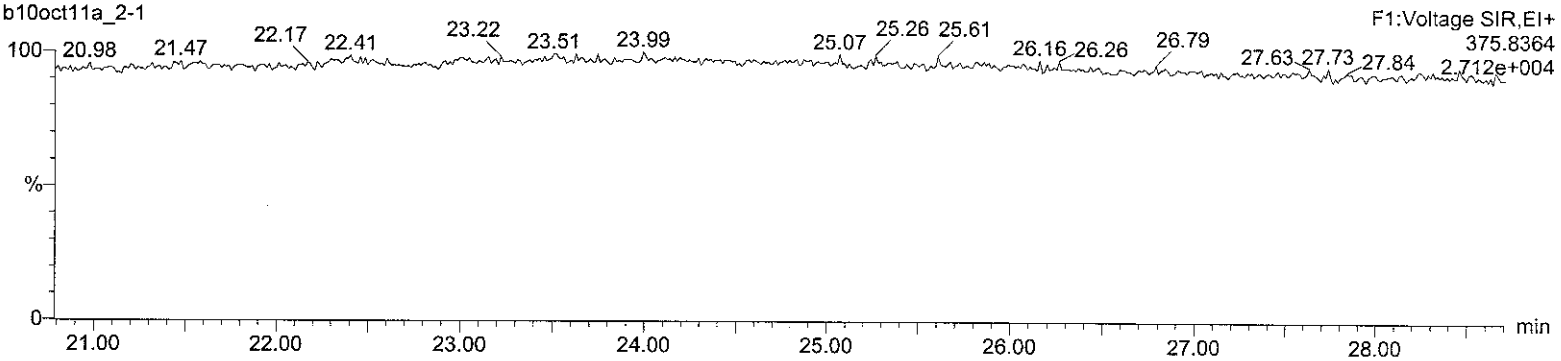
Total-pentafurans (F1)



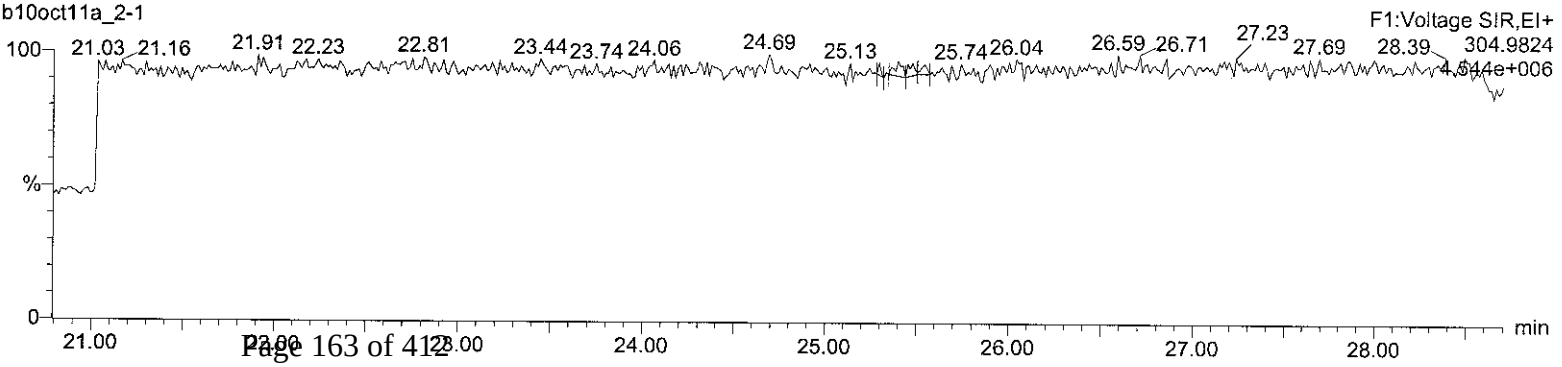
Total-pentafurans (F1)



HxDPE



Lock Mass F1



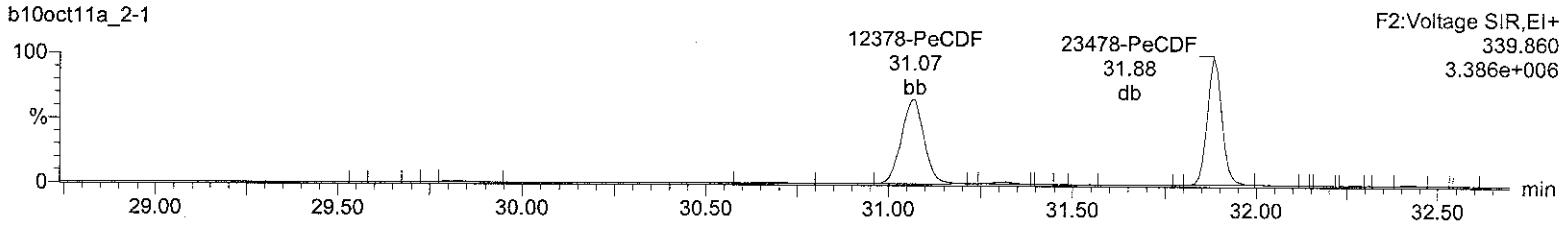
Quantify Sample Report **MassLynx 4.1**
Method 8290 Quantification Report

Dataset: C:\MassLynx\Default.pro\Sample Results\8290-b10oct11a_2.qld

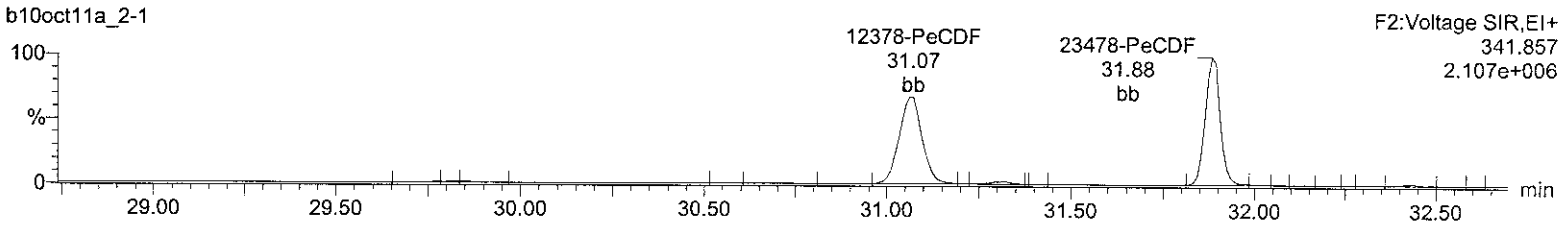
Last Altered: Tuesday, October 11, 2011 13:39:25 Eastern Standard Time
Printed: Tuesday, October 11, 2011 13:40:15 Eastern Standard Time

Name: b10oct11a_2-1, Date: 11-Oct-2011, Time: 00:37:49, ID: 12004350-1 LCS, Description: 19684, Job: HMS8290_1L, Task: HRP763_1, User: MJC

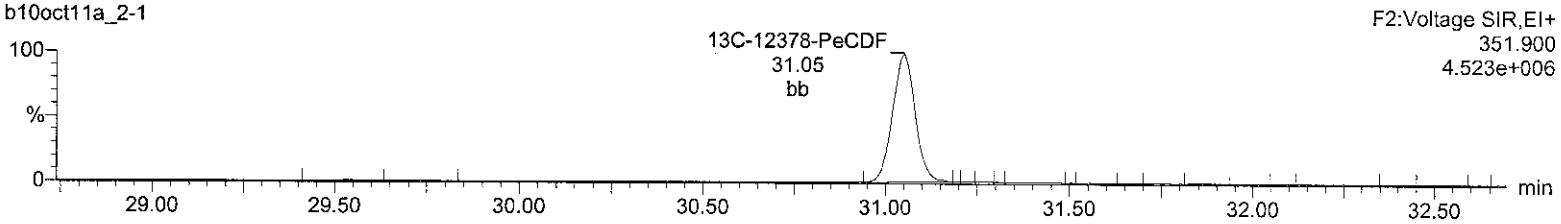
Total-pentafurans



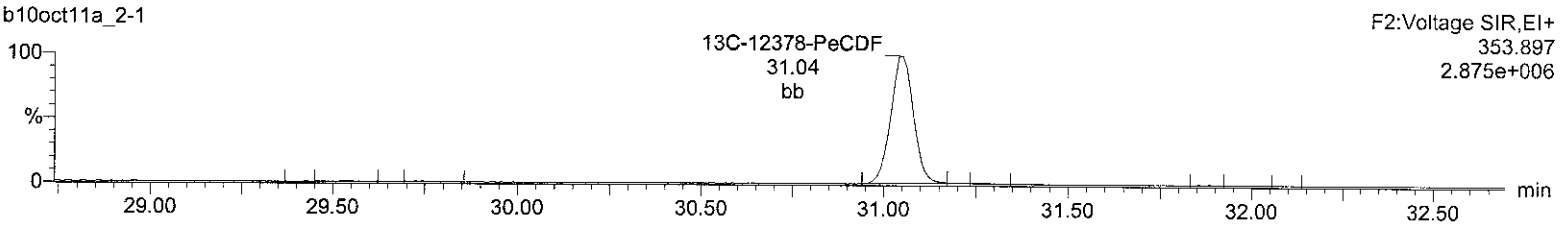
Total-pentafurans



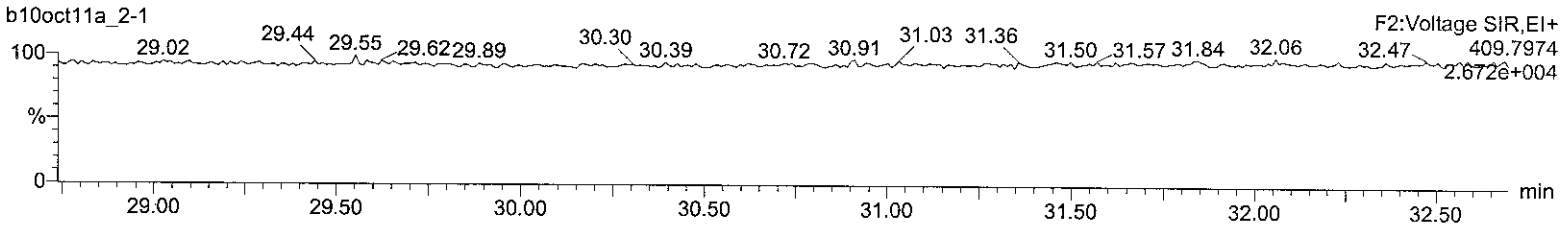
13C-12378-PeCDF



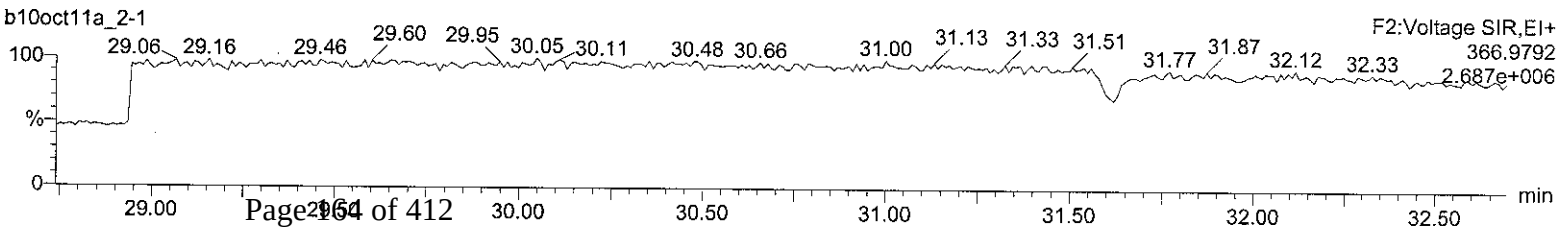
13C-12378-PeCDF



HpDPE



Lock Mass F2



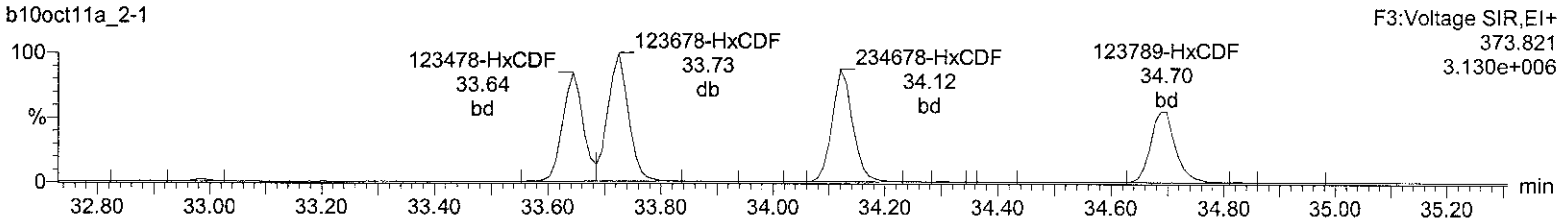
Quantify Sample Report **MassLynx 4.1**
Method 8290 Quantification Report

Dataset: C:\MassLynx\Default.pro\Sample Results\8290-b10oct11a_2.qld

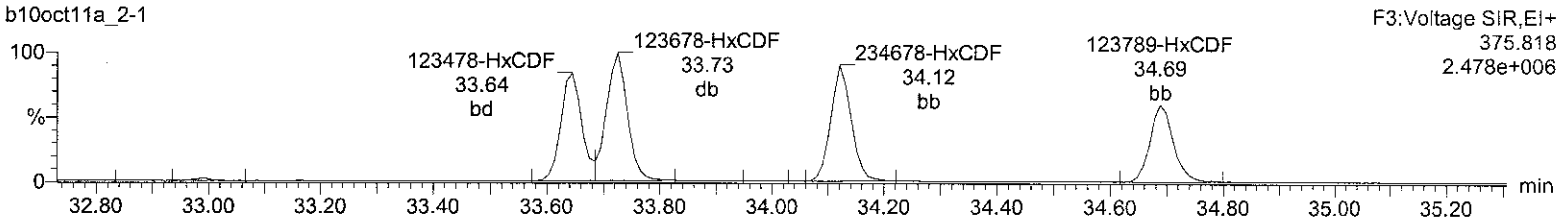
Last Altered: Tuesday, October 11, 2011 13:39:25 Eastern Standard Time
Printed: Tuesday, October 11, 2011 13:40:15 Eastern Standard Time

Name: b10oct11a_2-1, Date: 11-Oct-2011, Time: 00:37:49, ID: 12004350-1 LCS, Description: 19684, Job: HMS8290_1L, Task: HRP763_1, User: MJC

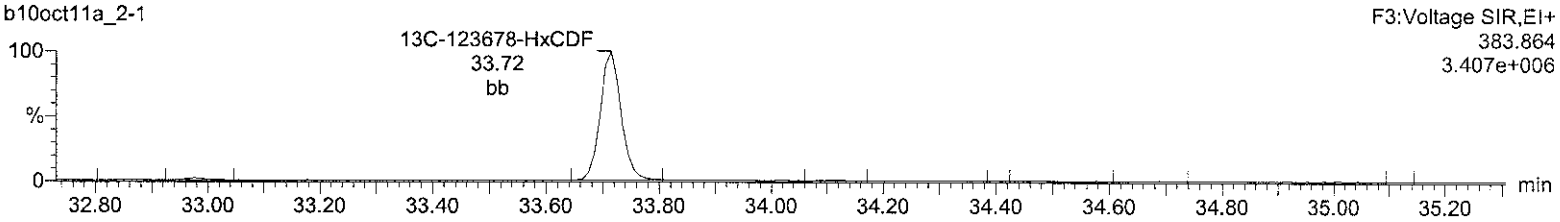
Total-hexafurans



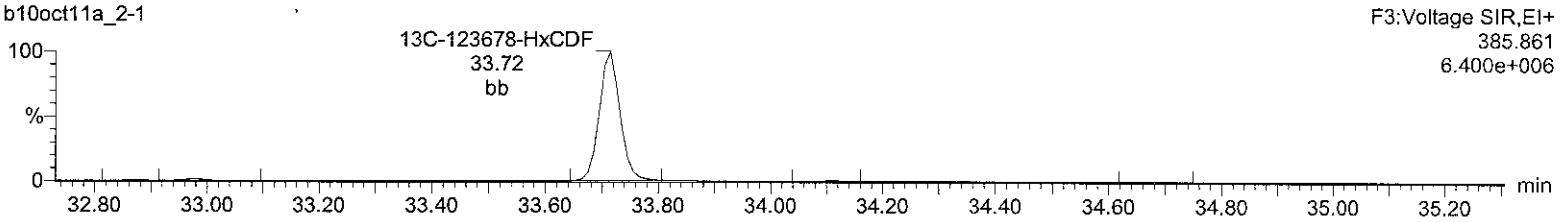
Total-hexafurans



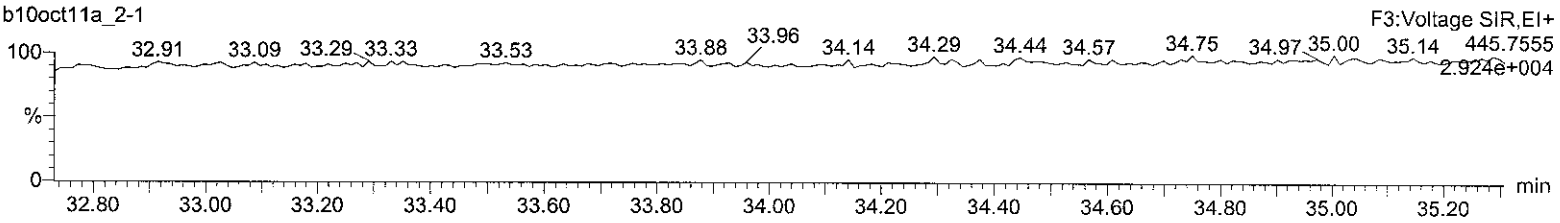
13C-123678-HxCDF



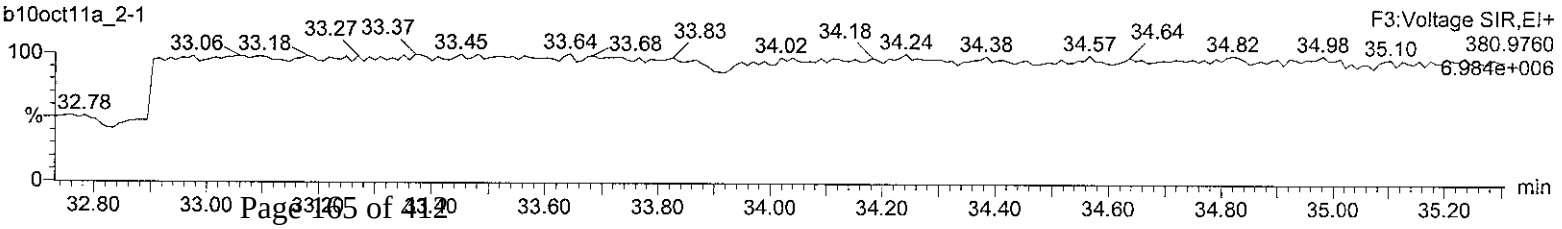
13C-123678-HxCDF



OcDPE



Lock Mass F3



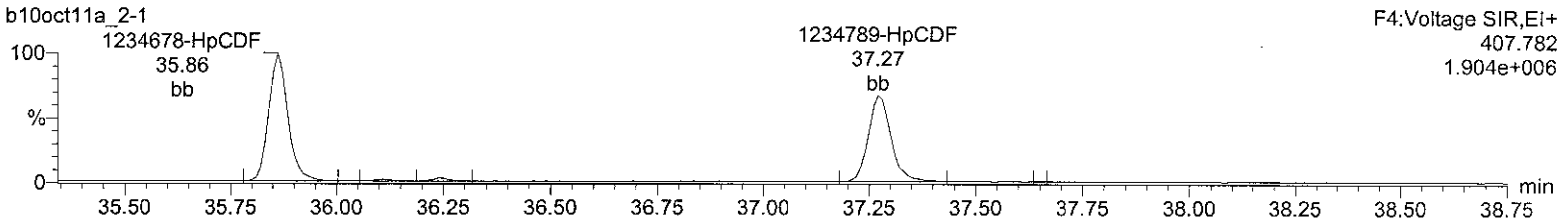
Quantify Sample Report **MassLynx 4.1**
Method 8290 Quantification Report

Dataset: C:\MassLynx\Default.pro\Sample Results\8290-b10oct11a_2.qld

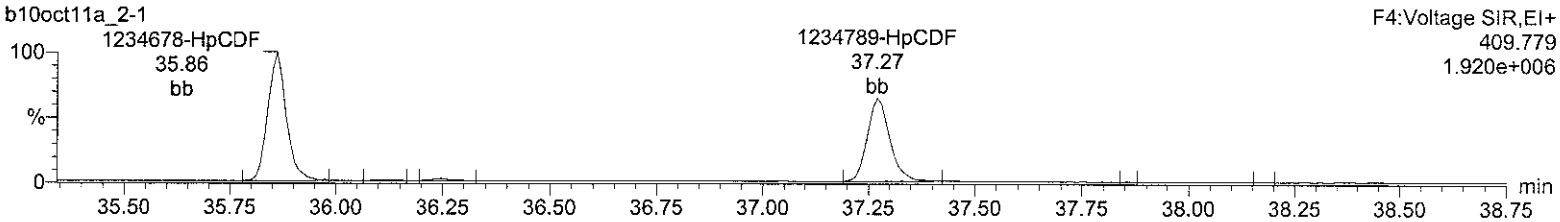
Last Altered: Tuesday, October 11, 2011 13:39:25 Eastern Standard Time
Printed: Tuesday, October 11, 2011 13:40:15 Eastern Standard Time

Name: b10oct11a_2-1, Date: 11-Oct-2011, Time: 00:37:49, ID: 12004350-1 LCS, Description: 19684, Job: HMS8290_1L, Task: HRP763_1, User: MJC

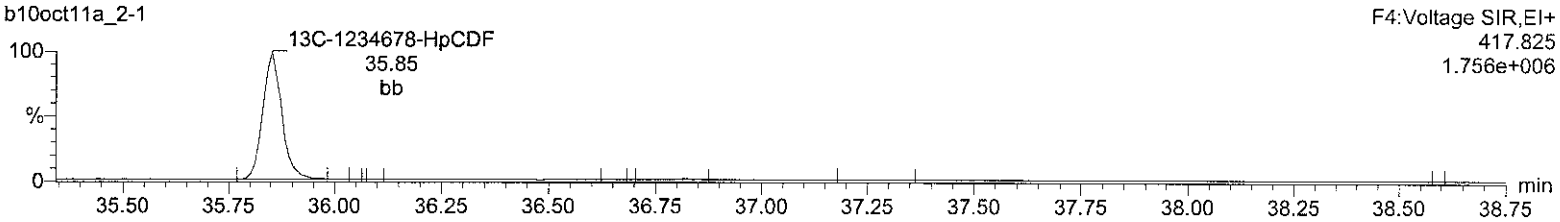
Total-heptafurans



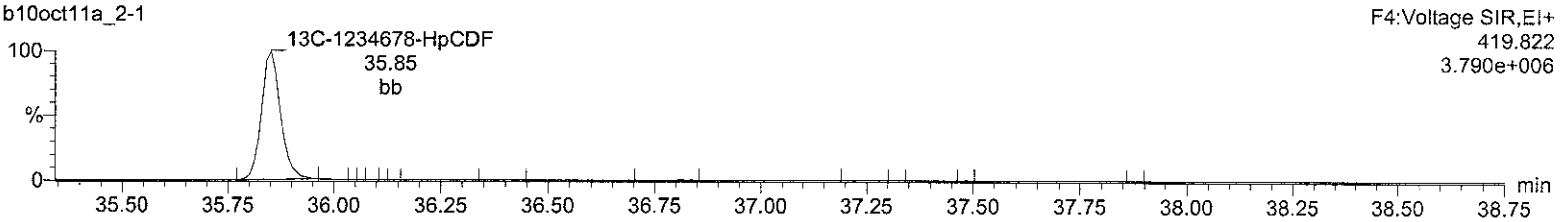
Total-heptafurans



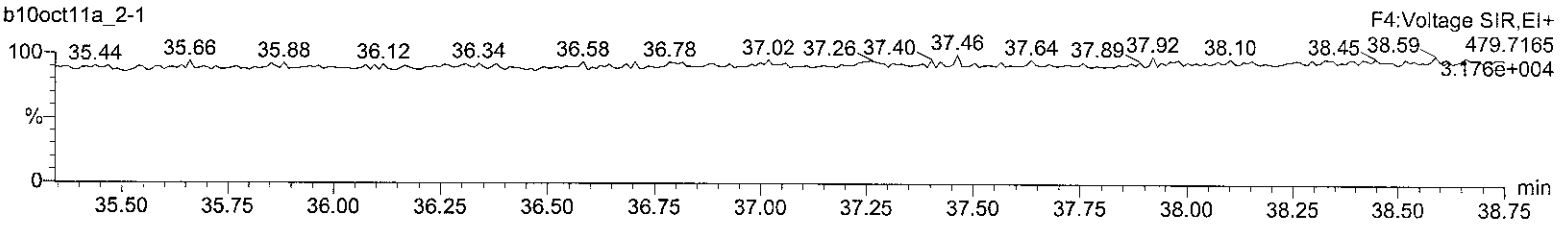
13C-1234678-HpCDF



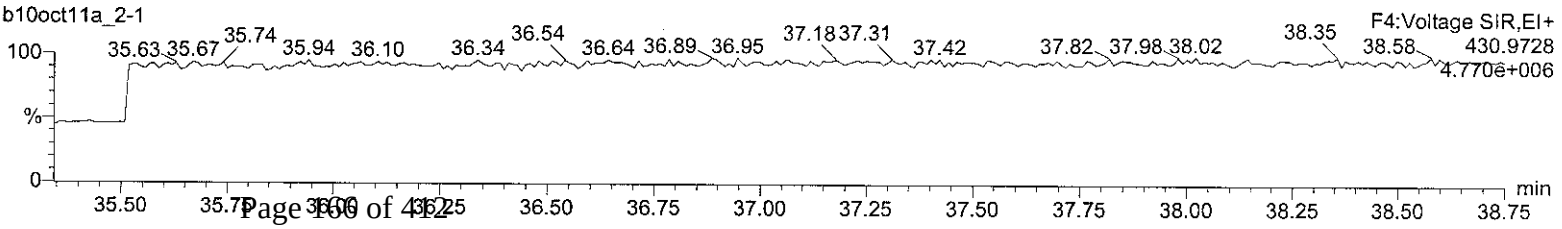
13C-1234678-HpCDF



NoDPE



Lock Mass F4



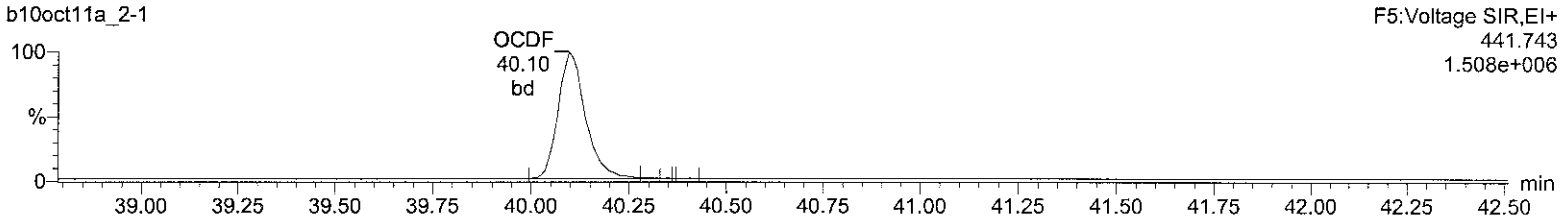
Quantify Sample Report **MassLynx 4.1**
Method 8290 Quantification Report

Dataset: C:\MassLynx\Default.pro\Sample Results\8290-b10oct11a_2.qld

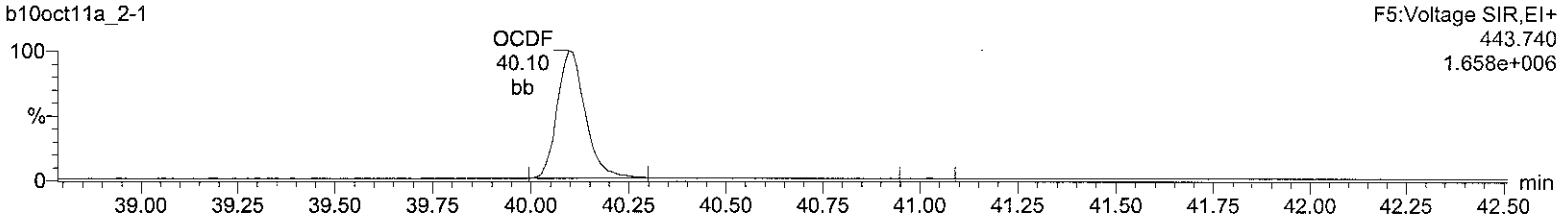
Last Altered: Tuesday, October 11, 2011 13:39:25 Eastern Standard Time
Printed: Tuesday, October 11, 2011 13:40:15 Eastern Standard Time

Name: b10oct11a_2-1, Date: 11-Oct-2011, Time: 00:37:49, ID: 12004350-1 LCS, Description: 19684, Job: HMS8290_1L, Task: HRP763_1, User: MJC

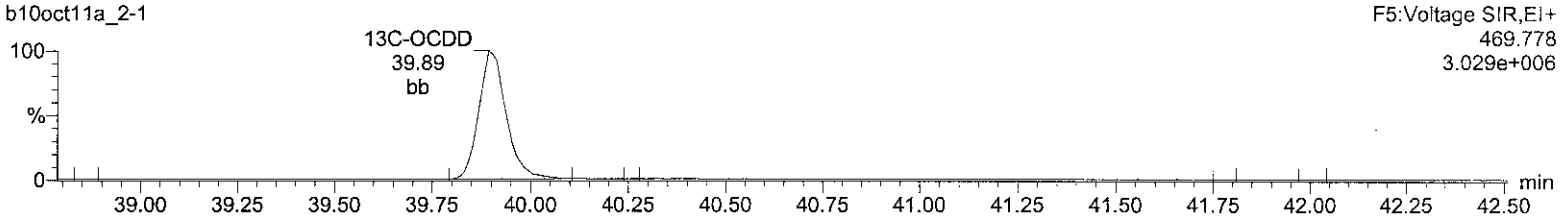
OCDF



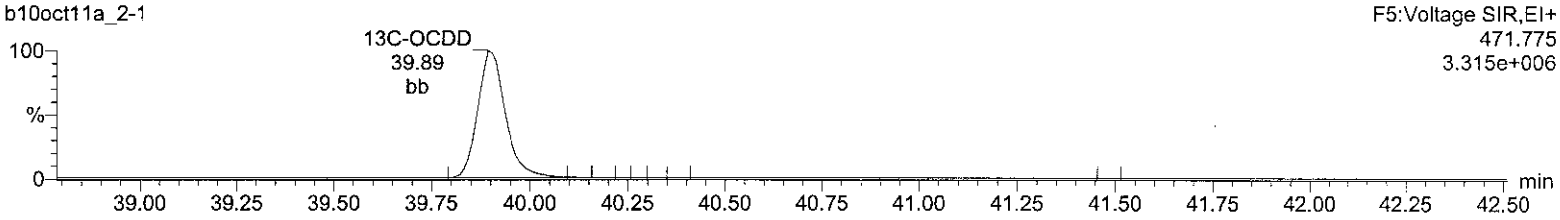
OCDF



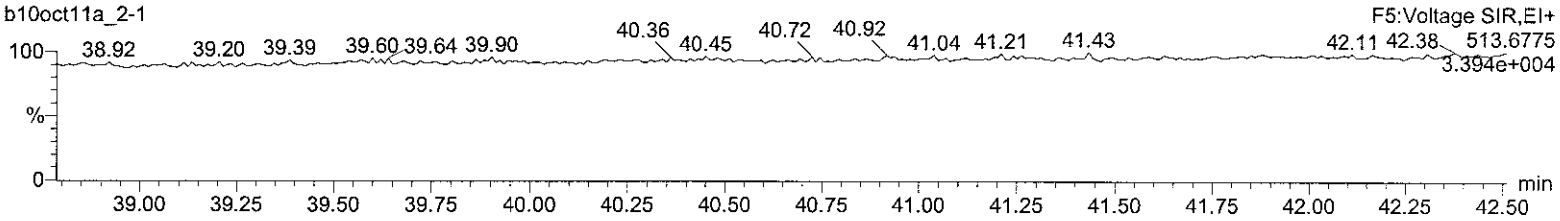
13C-OCDD



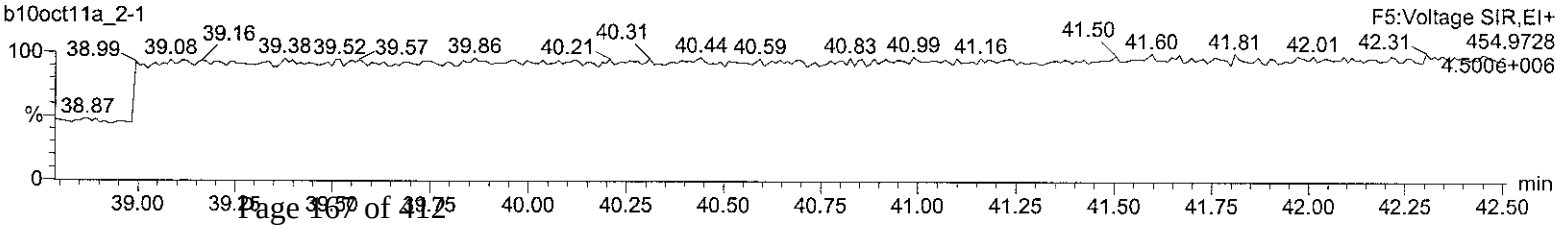
13C-OCDD



DeDPE



Lock Mass F5



Hi-Res Dioxins/Furans
Certificate of Analysis
Sample Summary

SDG Number:	**1109191**	**Client:**	**EMPI001**	**Project:**	**QC**
Lab Sample ID:	**12004341**			**Matrix:**	**SOLID**
Client Sample:	**QC for batch 19663**				
Client ID:	**LCSD for batch 19663**			**Prep Basis:**	**As Received**
Batch ID:	**19680**	**Method:**	**SW846 8290A**		
Run Date:	**10/10/2011 14:49**	**Analyst:**	**MJC**	**Instrument:**	**HRP763**
Data File:	**b10oct11a-3**			**Dilution:**	**1**
Prep Batch:	**19663**	**Prep Method:**	**SW846 3540C**		
Prep Date:	**04-OCT-11**	**Aliquot:**	**10 g**		

CAS No.	Parmname	Qual	Result	EMPC	Units	EDL	PQL
1746-01-6	2,3,7,8-TCDD		19.9		pg/g	0.312	1.00
40321-76-4	1,2,3,7,8-PeCDD		101		pg/g	0.312	5.00
39227-28-6	1,2,3,4,7,8-HxCDD		99.1		pg/g	0.426	5.00
57653-85-7	1,2,3,6,7,8-HxCDD		111		pg/g	0.396	5.00
19408-74-3	1,2,3,7,8,9-HxCDD		119		pg/g	0.442	5.00
35822-46-9	1,2,3,4,6,7,8-HpCDD		102		pg/g	0.492	5.00
3268-87-9	1,2,3,4,6,7,8,9-OCDD		215		pg/g	1.02	10.0
51207-31-9	2,3,7,8-TCDF		18.7		pg/g	0.208	1.00
57117-41-6	1,2,3,7,8-PeCDF		106		pg/g	0.754	5.00
57117-31-4	2,3,4,7,8-PeCDF		109		pg/g	0.770	5.00
70648-26-9	1,2,3,4,7,8-HxCDF		105		pg/g	0.750	5.00
57117-44-9	1,2,3,6,7,8-HxCDF		116		pg/g	0.644	5.00
72918-21-9	1,2,3,7,8,9-HxCDF		109		pg/g	0.860	5.00
60851-34-5	2,3,4,6,7,8-HxCDF		111		pg/g	0.712	5.00
67562-39-4	1,2,3,4,6,7,8-HpCDF		112		pg/g	0.374	5.00
55673-89-7	1,2,3,4,7,8,9-HpCDF		96.3		pg/g	0.514	5.00
39001-02-0	1,2,3,4,6,7,8,9-OCDF		193		pg/g	0.818	10.0

Surrogate/Tracer recovery	Qual	Result	Nominal	Units	Recovery%	Acceptable Limits
13C-2,3,7,8-TCDD		151	200	pg/g	75.4	(40%-135%)
13C-1,2,3,7,8-PeCDD		147	200	pg/g	73.5	(40%-135%)
13C-1,2,3,6,7,8-HxCDD		144	200	pg/g	72.2	(40%-135%)
13C-1,2,3,4,6,7,8-HpCDD		153	200	pg/g	76.5	(40%-135%)
13C-OCDD		249	400	pg/g	62.3	(40%-135%)
13C-2,3,7,8-TCDF		157	200	pg/g	78.3	(40%-135%)
13C-1,2,3,7,8-PeCDF		124	200	pg/g	62.0	(40%-135%)
13C-1,2,3,6,7,8-HxCDF		121	200	pg/g	60.5	(40%-135%)
13C-1,2,3,4,6,7,8-HpCDF		134	200	pg/g	66.8	(40%-135%)

Comments:

K Estimated Maximum Possible Concentration

Quantify Sample Summary Report **MassLynx 4.1**
Method 8290 Quantification Report

Dataset: C:\MassLynx\Default.pro\Sample Results\8290-b10oct11a.qld

Last Altered: Tuesday, October 11, 2011 08:03:54 Eastern Standard Time
Printed: Tuesday, October 11, 2011 11:05:12 Eastern Standard Time

HMP
11Oct11

Method: C:\MassLynx\DEFAULT.PRO\MethDB\CFA_EPA8290_101011.mdb 10 Oct 2011 14:05:54
Calibration: C:\MassLynx\DEFAULT.PRO\CurveDB\8290-b01nov10b.cdb 02 Nov 2010 08:19:01

Name: b10oct11a-3, Date: 10-Oct-2011, Time: 14:49:08, ID: 12004341-1 LCSD, Description: 19680, Job: HMS8290_1S, Task: HRP763_1, User: MJC

	Name	Ion1Area	Ion2Area	Response	RT	RRT	RA	Fail?	pg/uL	EDL	Height1	Noise1	S/N1	Height2	Noise2	S/N2	M
1	2378-TCDD	1.71e4	2.12e4	3.83e4	26.55	1.001	0.81	NO	9.973	0.156	1.53e5	1027	149.2	1.99e5	1232	161.5	bb
2	12378-PeCDD	9.97e4	6.42e4	1.64e5	32.06	1.000	1.55	NO	50.624	0.156	1.96e6	2632	743.5	1.27e6	1469	864.8	bb
3	123478-HxCDD	6.98e4	5.65e4	1.26e5	34.20	0.998	1.24	NO	49.538	0.213	1.47e6	2475	594.6	1.17e6	1843	636.7	bd
4	123678-HxCDD	8.37e4	6.94e4	1.53e5	34.26	1.000	1.21	NO	55.601	0.198	1.52e6	2475	613.0	1.31e6	1843	710.6	dd
5	123789-HxCDD	8.10e4	6.55e4	1.46e5	34.44	1.005	1.24	NO	59.487	0.221	1.40e6	2475	565.8	1.15e6	1843	622.0	dd
6	1234678-HpCDD	5.64e4	5.50e4	1.11e5	36.77	1.000	1.03	NO	51.081	0.246	8.53e5	1683	507.0	7.96e5	1589	500.6	bb
7	OCDD	7.56e4	8.20e4	1.58e5	39.86	1.000	0.92	NO	107.362	0.511	8.47e5	1324	639.3	9.35e5	2045	457.5	bd
8	2378-TCDF	2.65e4	3.23e4	5.88e4	25.65	1.000	0.82	NO	9.337	0.104	2.50e5	1148	217.8	3.18e5	1304	243.9	bb
9	12378-PeCDF	1.41e5	9.19e4	2.33e5	31.02	1.001	1.54	NO	52.965	0.377	1.74e6	4581	380.7	1.14e6	3716	305.5	bd
10	23478-PeCDF	1.44e5	9.07e4	2.34e5	31.85	1.028	1.58	NO	54.367	0.385	2.71e6	4581	590.6	1.69e6	3716	456.0	bd
11	123478-HxCDF	9.26e4	7.39e4	1.66e5	33.60	0.998	1.25	NO	52.404	0.375	1.97e6	4629	424.6	1.59e6	4888	324.9	bd
12	123678-HxCDF	1.20e5	9.54e4	2.15e5	33.69	1.000	1.25	NO	58.143	0.322	2.18e6	4629	470.9	1.80e6	4888	367.3	db
13	234678-HxCDF	1.02e5	8.38e4	1.86e5	34.09	1.012	1.22	NO	55.640	0.356	2.02e6	4629	435.4	1.61e6	4888	328.5	bb
14	123789-HxCDF	8.30e4	6.72e4	1.50e5	34.66	1.029	1.24	NO	54.287	0.430	1.39e6	4629	300.0	1.16e6	4888	238.1	bb
15	1234678-HpCDF	9.31e4	8.97e4	1.83e5	35.82	1.000	1.04	NO	56.002	0.187	1.56e6	2074	754.4	1.41e6	2005	705.5	bd
16	1234789-HpCDF	5.82e4	5.63e4	1.15e5	37.23	1.040	1.03	NO	48.152	0.257	8.13e5	2074	391.7	7.63e5	2005	380.6	bb
17	OCDF	8.21e4	9.32e4	1.75e5	40.06	1.005	0.88	NO	96.454	0.409	9.17e5	1777	515.9	1.02e6	1560	655.1	bb
18	13C-2378-TCDD	1.66e5	2.13e5	3.79e5	26.52	1.027	0.78	NO	75.398	0.232	1.57e6	2904	539.1	1.97e6	1728	1138.0	bd
19	13C-12378-PeCDD	1.92e5	1.22e5	3.14e5	32.04	1.241	1.58	NO	73.490	0.240	3.90e6	2211	1763.8	2.39e6	1855	1289.4	bb
20	13C-123678-HxCDD	1.58e5	1.26e5	2.85e5	34.26	0.995	1.26	NO	72.225	0.191	3.14e6	2573	1221.8	2.49e6	2724	912.4	bd
21	13C-1234678-HpCDD	1.13e5	1.04e5	2.17e5	36.76	1.068	1.08	NO	76.477	0.309	1.71e6	2394	716.3	1.55e6	3774	411.7	bb
22	13C-OCDD	1.41e5	1.54e5	2.95e5	39.85	1.157	0.91	NO	124.515	0.245	1.58e6	2430	650.4	1.75e6	1656	1059.1	bd
23	13C-2378-TCDF	2.82e5	3.59e5	6.41e5	25.63	0.992	0.79	NO	78.305	0.130	2.63e6	2056	1281.3	3.47e6	2176	1596.5	bb
24	13C-12378-PeCDF	2.87e5	1.85e5	4.72e5	31.00	1.200	1.55	NO	62.030	0.212	3.58e6	3958	905.6	2.21e6	2443	905.8	bd
25	13C-123678-HxCDF	1.20e5	2.29e5	3.50e5	33.69	0.978	0.52	NO	60.504	0.182	2.40e6	4167	576.5	4.34e6	3249	1335.2	bb
26	13C-1234678-HpCDF	7.93e4	1.76e5	2.56e5	35.81	1.040	0.45	NO	66.769	0.147	1.32e6	1822	727.1	2.95e6	2145	1375.3	bd
27	13C-1234-TCDD	1.99e5	2.50e5	4.49e5	25.83	0.000	0.80	NO	100.000	0.260	1.98e6	2904	681.1	2.43e6	1728	1404.5	bb
28	13C-123789-HxCDD	1.97e5	1.57e5	3.54e5	34.44	0.000	1.25	NO	100.000	0.212	3.47e6	2573	1349.6	2.69e6	2724	988.7	db
29	37Cl-2378-TCDD (SS)	7.57e1		7.57e1	26.54	1.000			0.019	0.0458	2.71e3	691	3.9				dd
30	13C-23478-PeCDF (SS)	1.36e3	1.06e3	2.42e3	31.84	1.027	1.28	YES	0.549	0.291	2.95e4	3958	7.4	2.01e4	2443	8.2	db

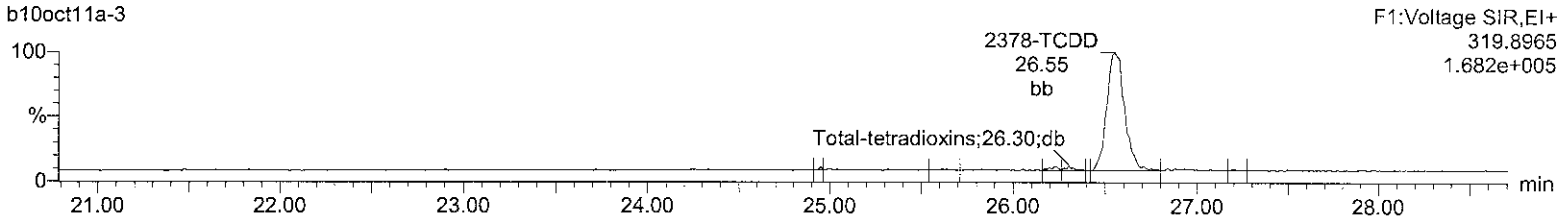
Quantify Sample Report **MassLynx 4.1**
Method 8290 Quantification Report

Dataset: C:\MassLynx\Default.pro\Sample Results\8290-b10oct11a.qld

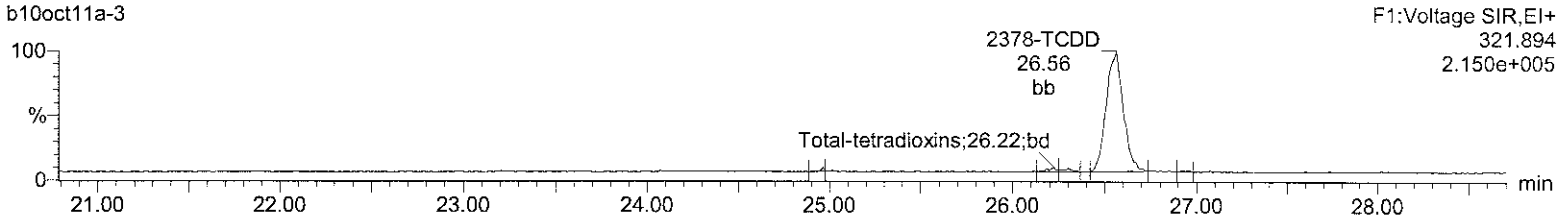
Last Altered: Tuesday, October 11, 2011 08:03:54 Eastern Standard Time
Printed: Tuesday, October 11, 2011 08:04:29 Eastern Standard Time

Name: b10oct11a-3, Date: 10-Oct-2011, Time: 14:49:08, ID: 12004341-1 LCSD, Description: 19680, Job: HMS8290_1S, Task: HRP763_1, User: MJC

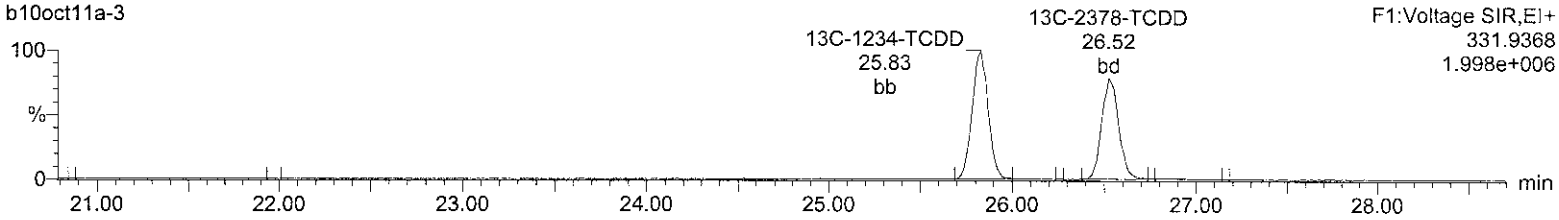
Total-tetradioxins



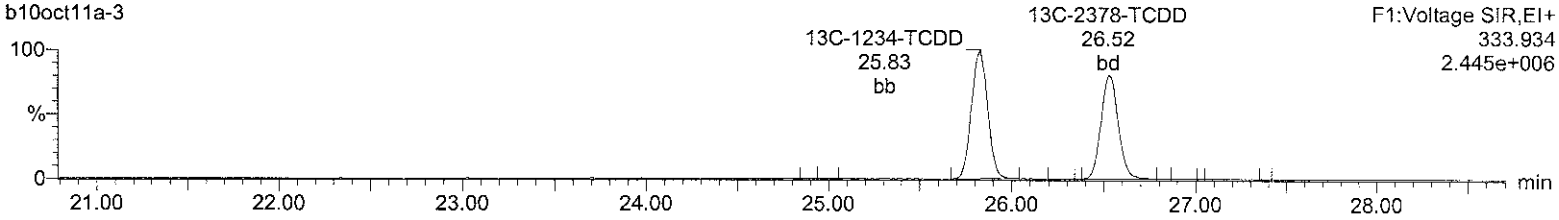
Total-tetradioxins



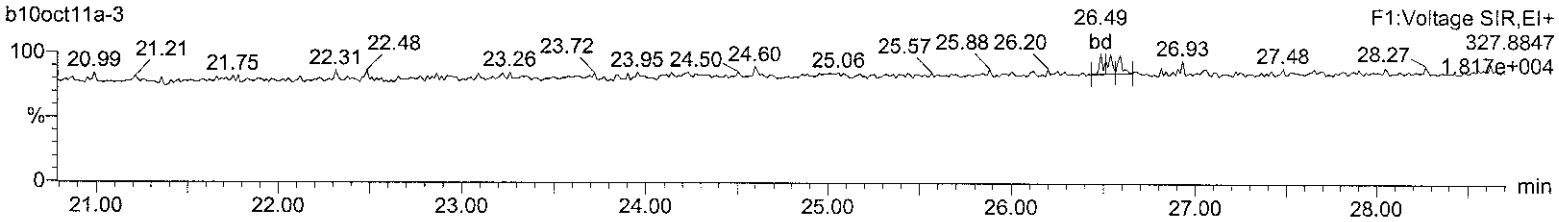
13C-2378-TCDD



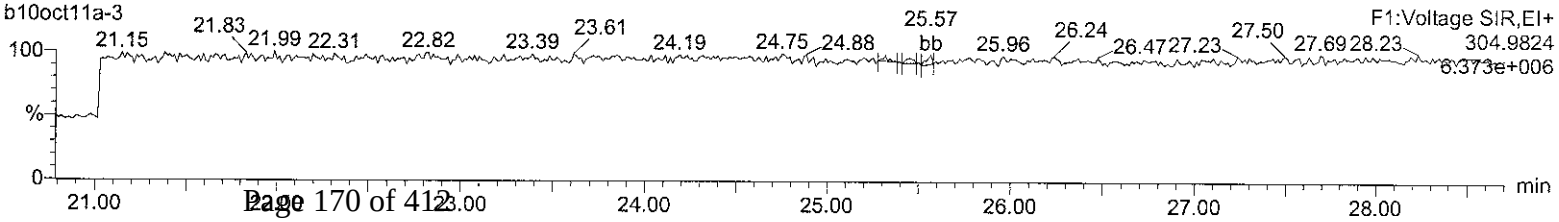
13C-2378-TCDD



37Cl-2378-TCDD (SS)



Lock Mass F1



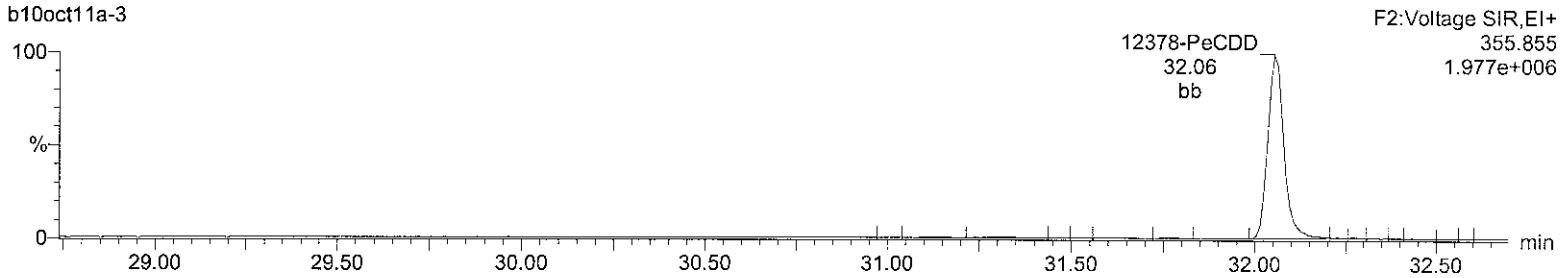
Quantify Sample Report **MassLynx 4.1**
Method 8290 Quantification Report

Dataset: C:\MassLynx\Default.pro\Sample Results\8290-b10oct11a.qld

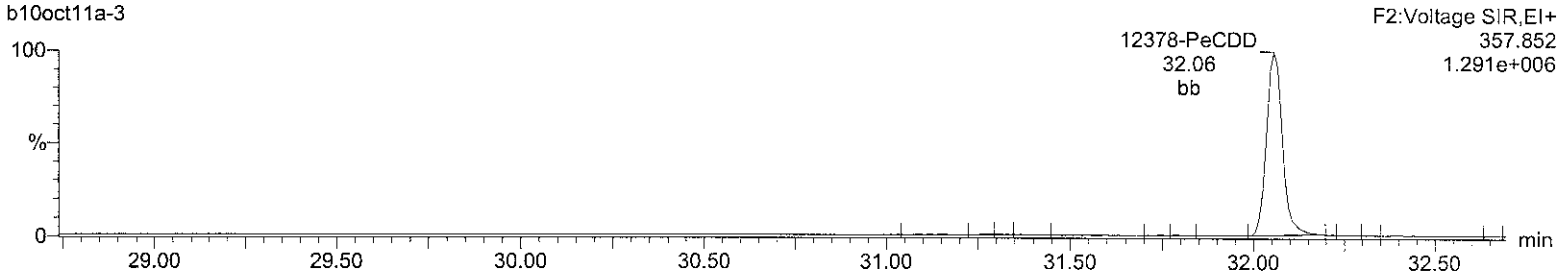
Last Altered: Tuesday, October 11, 2011 08:03:54 Eastern Standard Time
Printed: Tuesday, October 11, 2011 08:04:29 Eastern Standard Time

Name: b10oct11a-3, Date: 10-Oct-2011, Time: 14:49:08, ID: 12004341-1 LCSD, Description: 19680, Job: HMS8290_1S, Task: HRP763_1, User: MJC

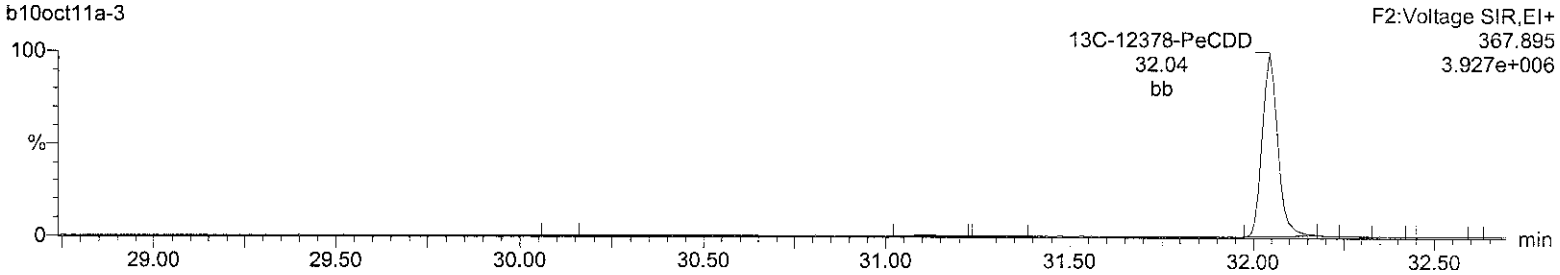
Total-pentadioxins



Total-pentadioxins



13C-12378-PeCDD



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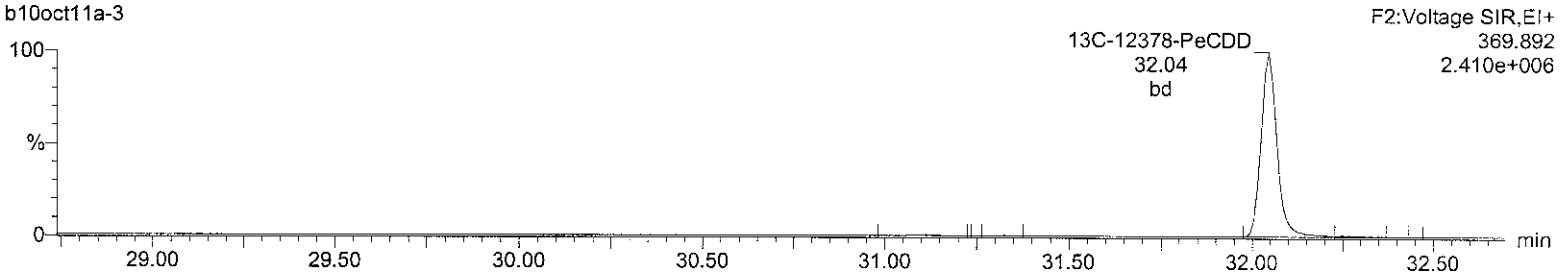
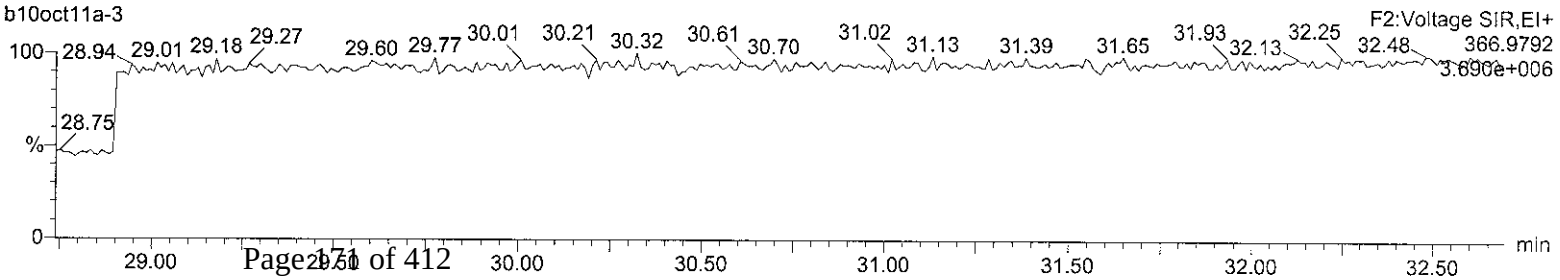


Lock Mass F2



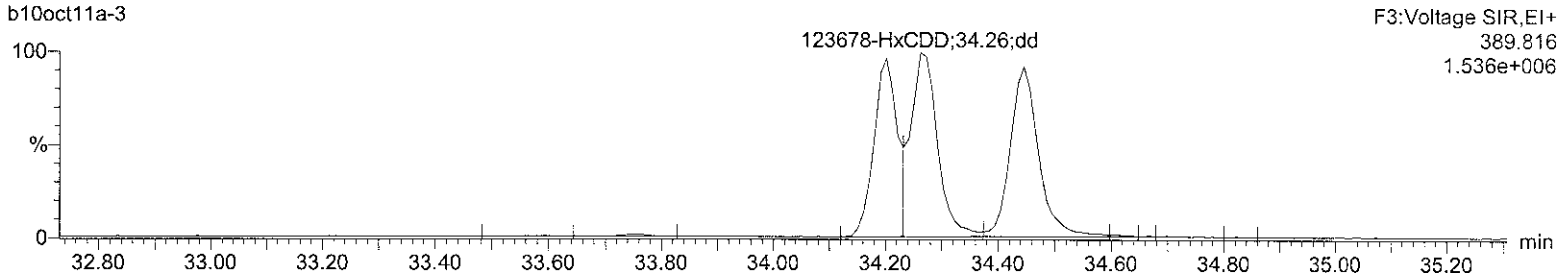
Quantify Sample Report **MassLynx 4.1**
Method 8290 Quantification Report

Dataset: C:\MassLynx\Default.pro\Sample Results\8290-b10oct11a.qld

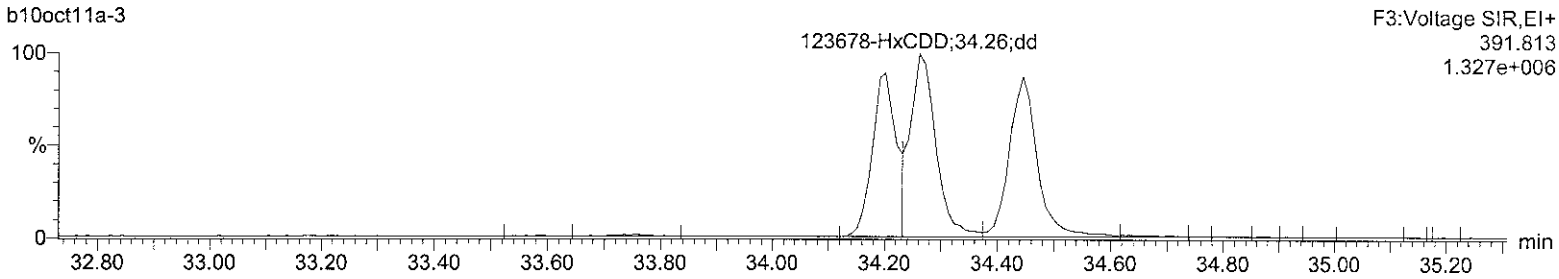
Last Altered: Tuesday, October 11, 2011 08:03:54 Eastern Standard Time
Printed: Tuesday, October 11, 2011 08:04:29 Eastern Standard Time

Name: b10oct11a-3, Date: 10-Oct-2011, Time: 14:49:08, ID: 12004341-1 LCSD, Description: 19680, Job: HMS8290_1S, Task: HRP763_1, User: MJC

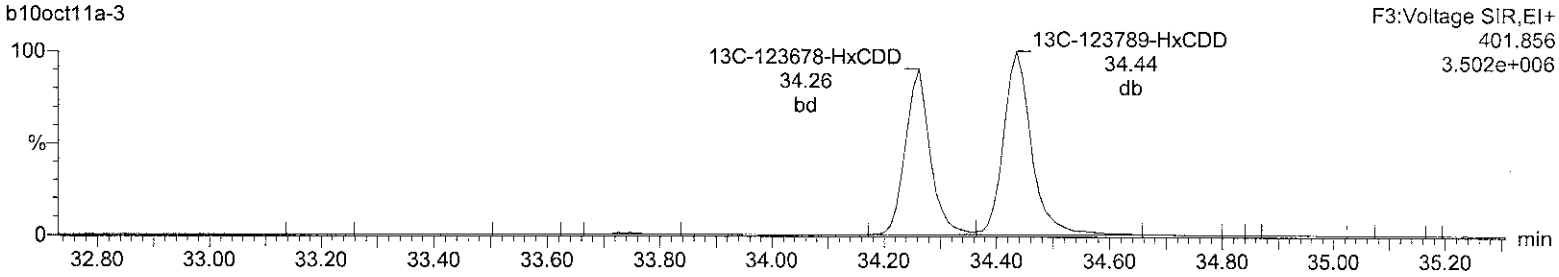
Total-hexadioxins



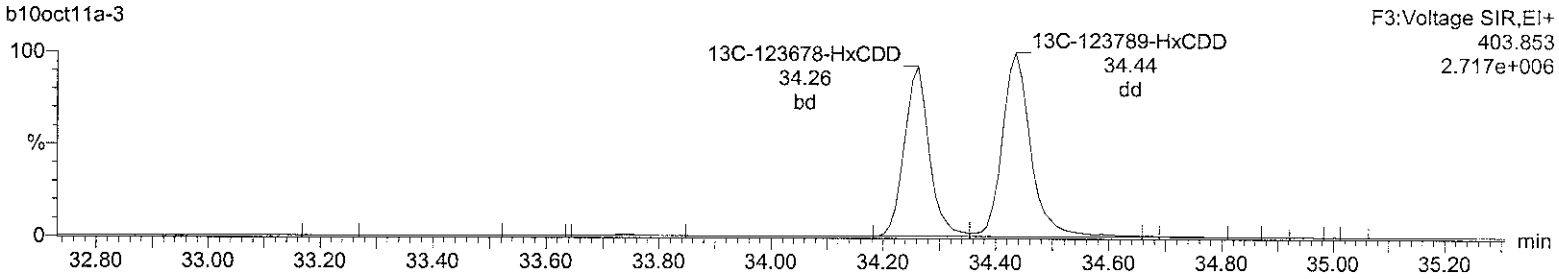
Total-hexadioxins



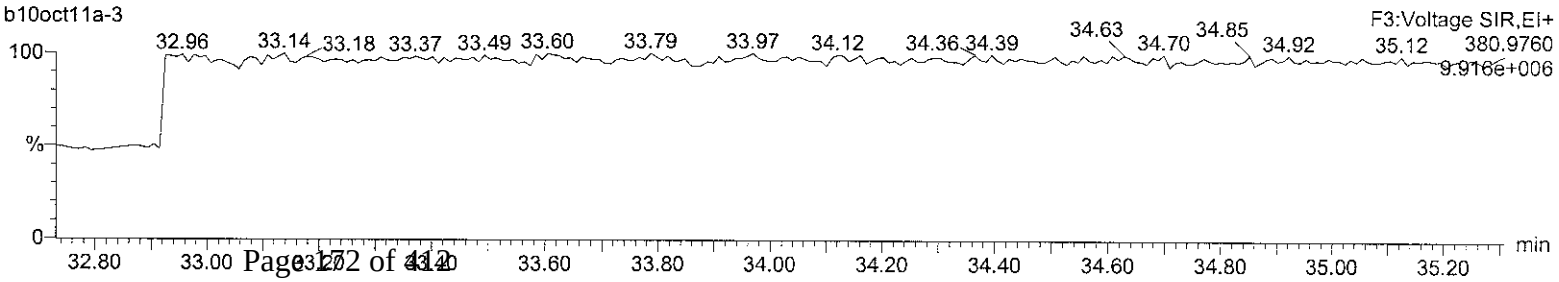
13C-123678-HxCDD



13C-123678-HxCDD



Lock Mass F3



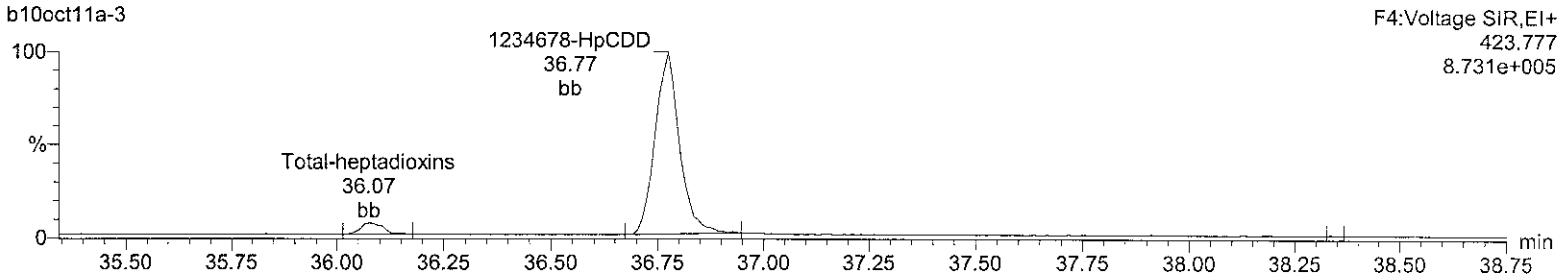
Quantify Sample Report **MassLynx 4.1**
Method 8290 Quantification Report

Dataset: C:\MassLynx\Default.pro\Sample Results\8290-b10oct11a.qld

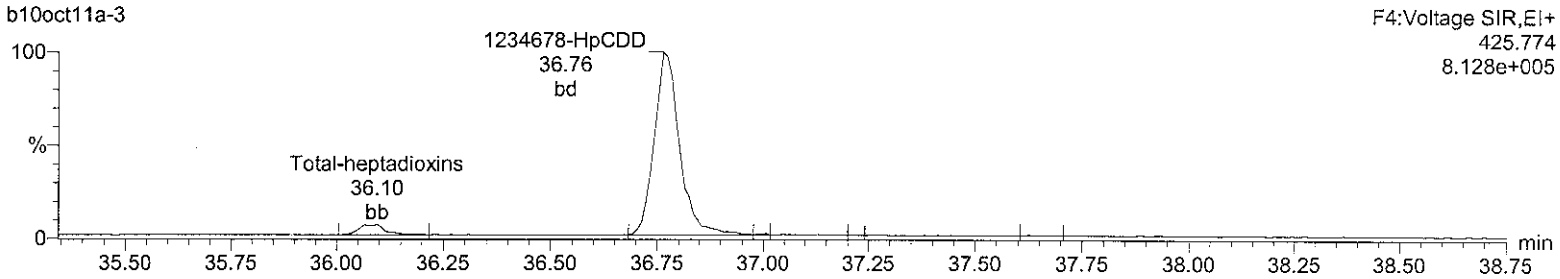
Last Altered: Tuesday, October 11, 2011 08:03:54 Eastern Standard Time
Printed: Tuesday, October 11, 2011 08:04:29 Eastern Standard Time

Name: b10oct11a-3, Date: 10-Oct-2011, Time: 14:49:08, ID: 12004341-1 LCSD, Description: 19680, Job: HMS8290_1S, Task: HRP763_1, User: MJC

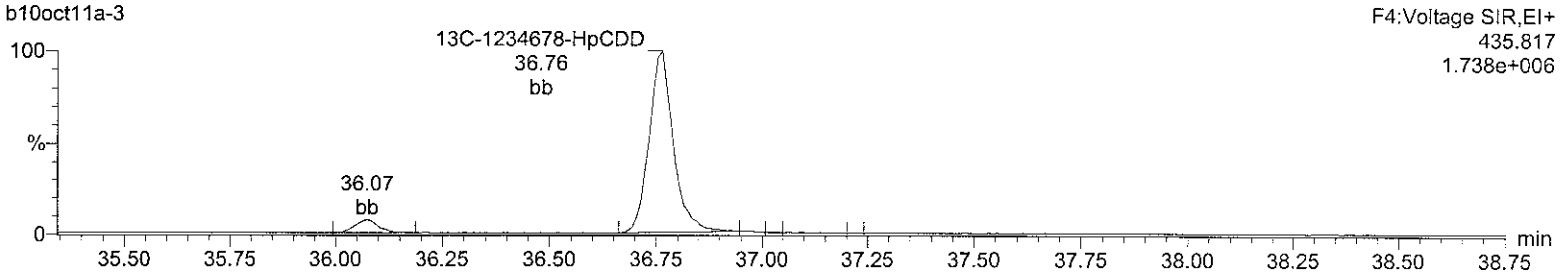
Total-heptadioxins



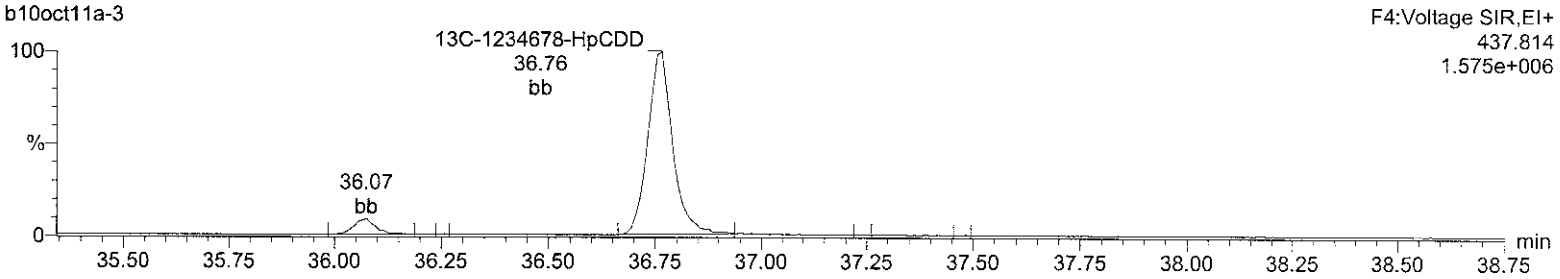
Total-heptadioxins



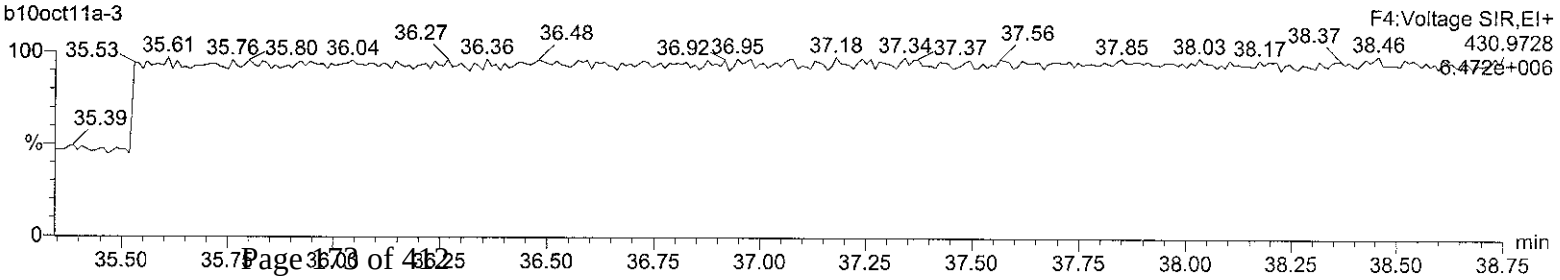
13C-1234678-HpCDD



13C-1234678-HpCDD



Lock Mass F4



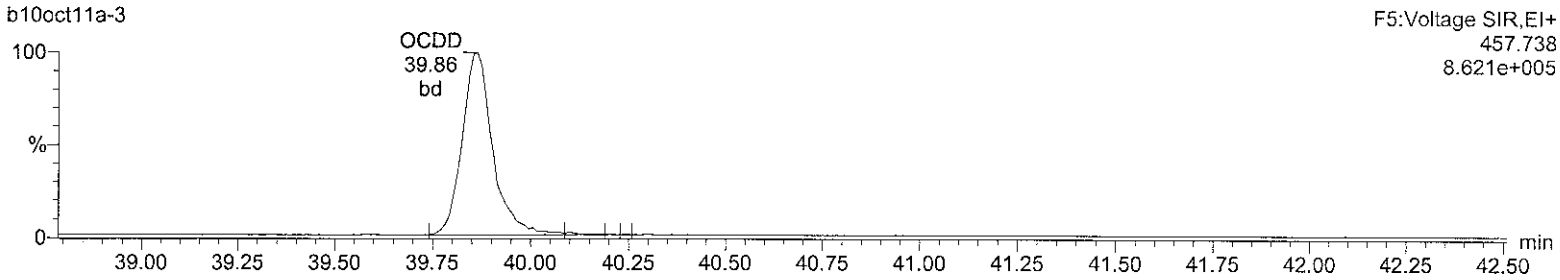
Quantify Sample Report **MassLynx 4.1**
Method 8290 Quantification Report

Dataset: C:\MassLynx\Default.pro\Sample Results\8290-b10oct11a.qld

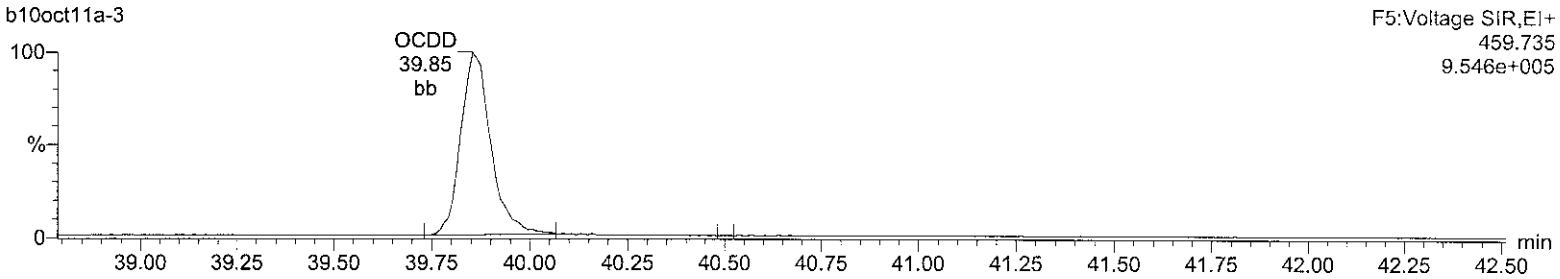
Last Altered: Tuesday, October 11, 2011 08:03:54 Eastern Standard Time
Printed: Tuesday, October 11, 2011 08:04:29 Eastern Standard Time

Name: b10oct11a-3, Date: 10-Oct-2011, Time: 14:49:08, ID: 12004341-1 LCSD, Description: 19680, Job: HMS8290_1S, Task: HRP763_1, User: MJC

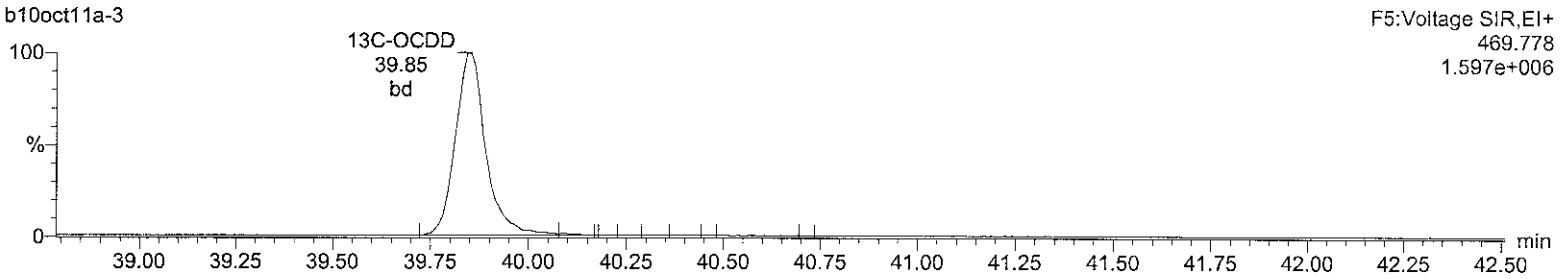
OCDD



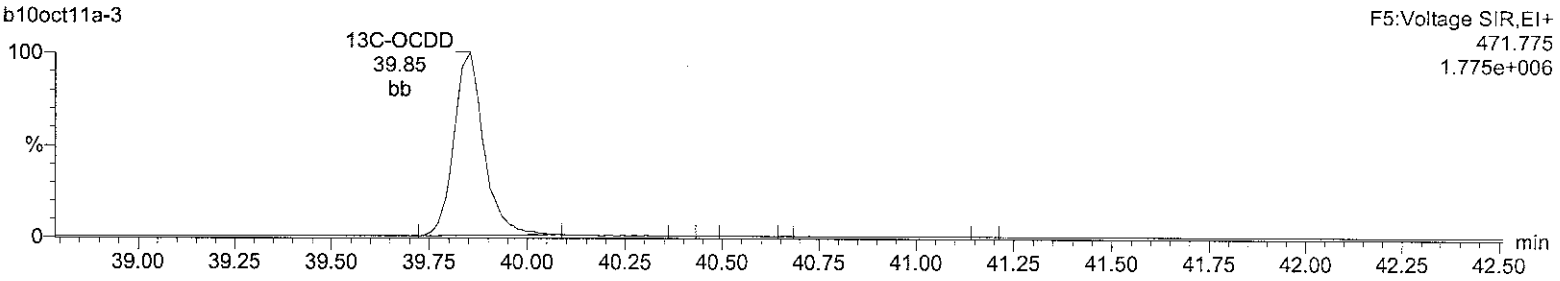
OCDD



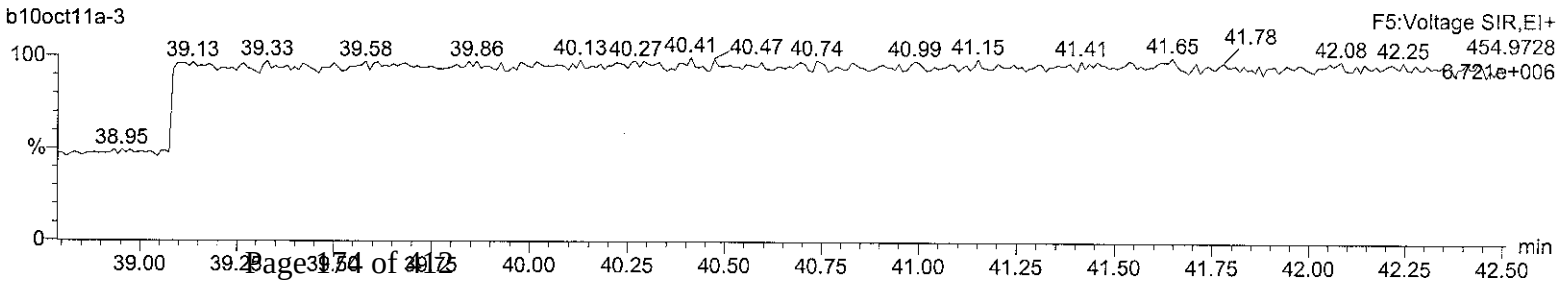
13C-OCDD



13C-OCDD



Lock Mass F5



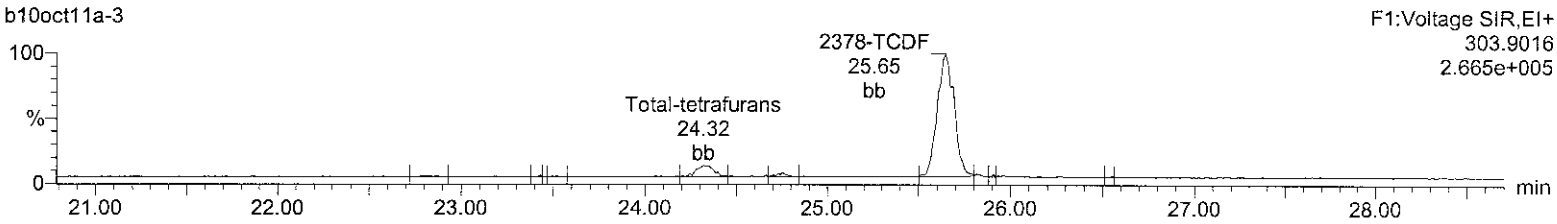
Quantify Sample Report **MassLynx 4.1**
Method 8290 Quantification Report

Dataset: C:\MassLynx\Default.pro\Sample Results\8290-b10oct11a.qld

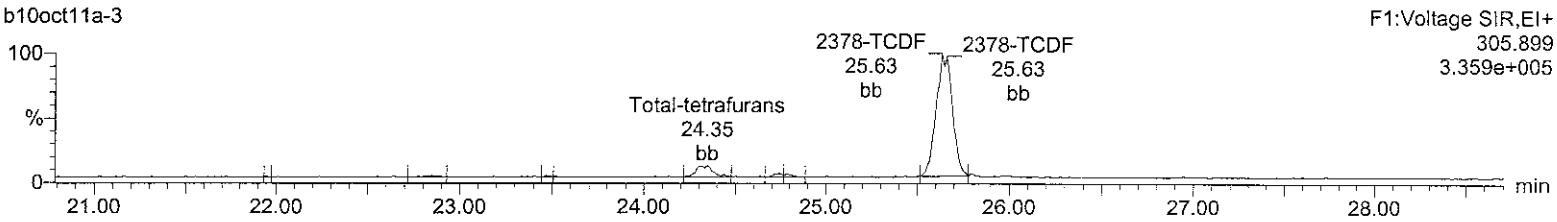
Last Altered: Tuesday, October 11, 2011 08:03:54 Eastern Standard Time
Printed: Tuesday, October 11, 2011 08:04:29 Eastern Standard Time

Name: b10oct11a-3, Date: 10-Oct-2011, Time: 14:49:08, ID: 12004341-1 LCSD, Description: 19680, Job: HMS8290_1S, Task: HRP763_1, User: MJC

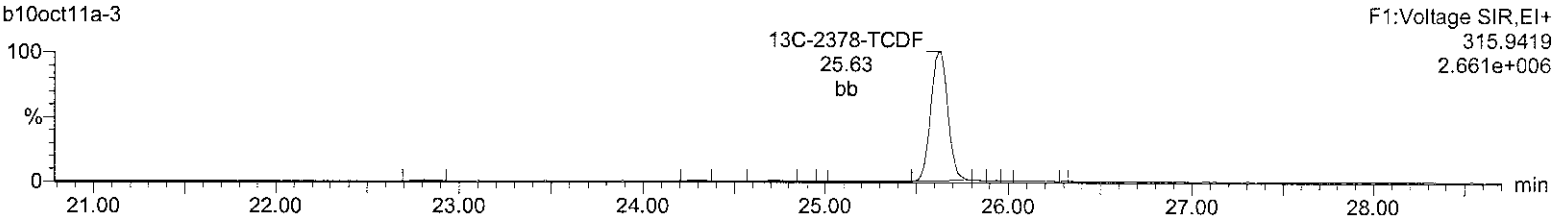
Total-tetrafurans



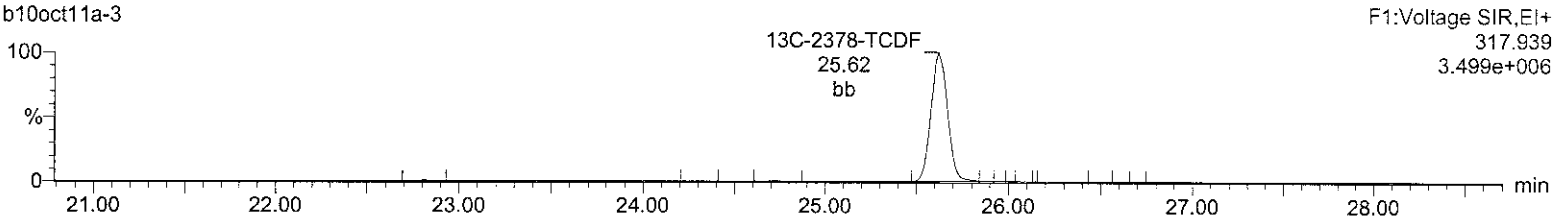
Total-tetrafurans



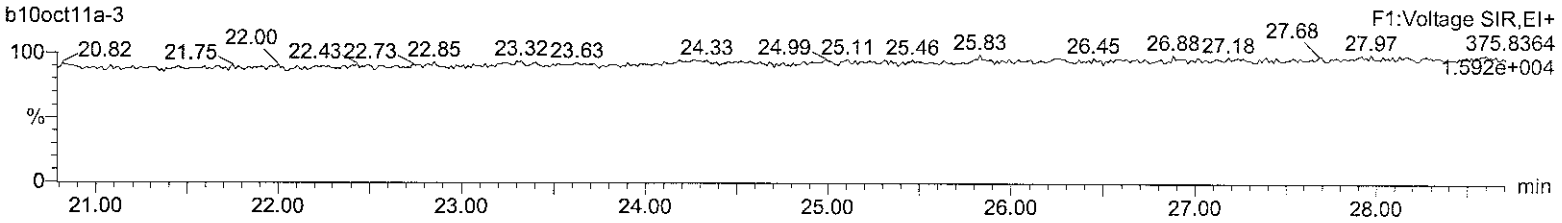
13C-2378-TCDF



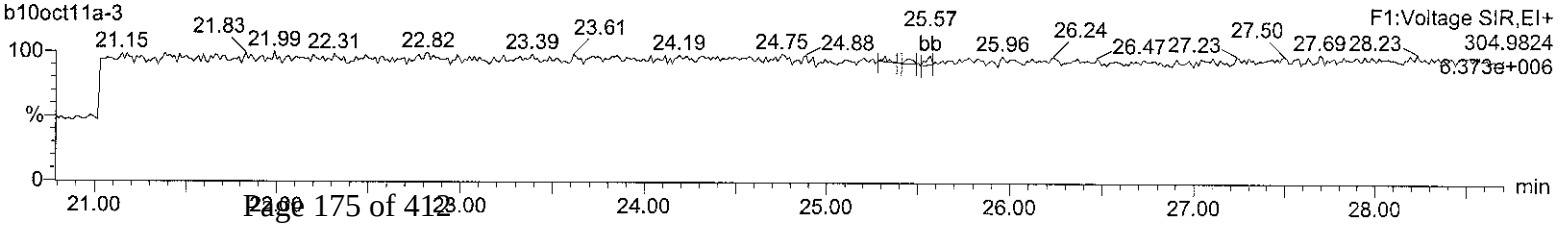
13C-2378-TCDF



HxDPE



Lock Mass F1



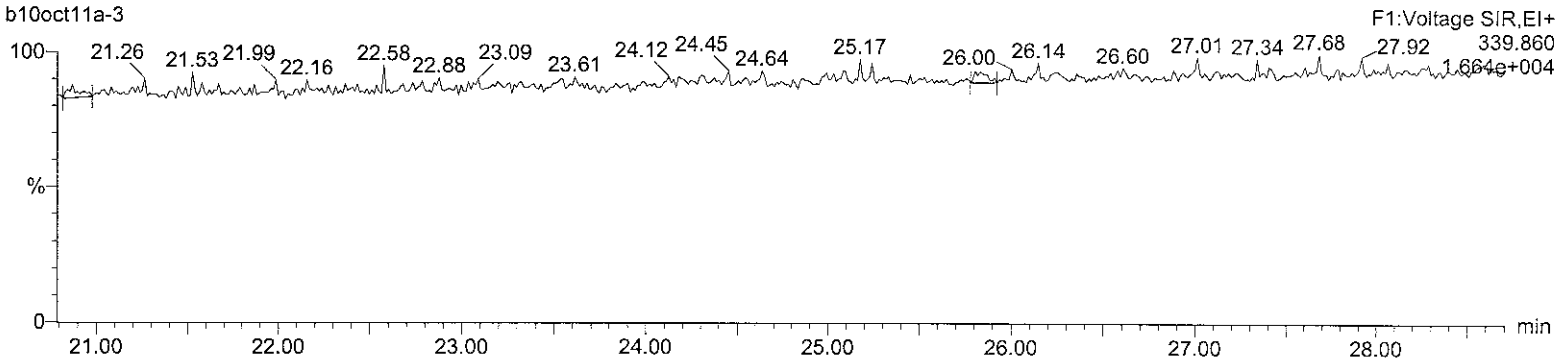
Quantify Sample Report **MassLynx 4.1**
Method 8290 Quantification Report

Dataset: C:\MassLynx\Default.pro\Sample Results\8290-b10oct11a.qld

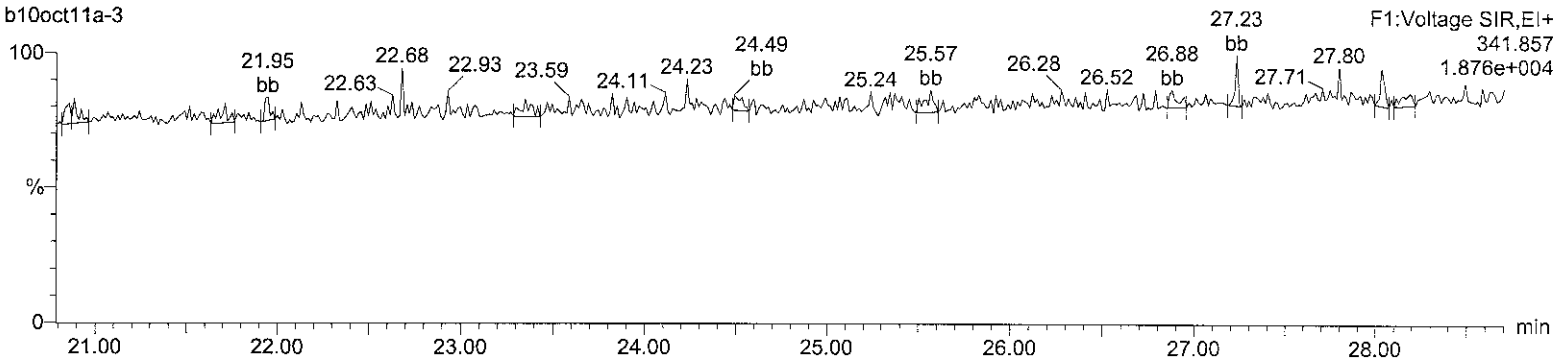
Last Altered: Tuesday, October 11, 2011 08:03:54 Eastern Standard Time
Printed: Tuesday, October 11, 2011 08:04:29 Eastern Standard Time

Name: b10oct11a-3, Date: 10-Oct-2011, Time: 14:49:08, ID: 12004341-1 LCSD, Description: 19680, Job: HMS8290_1S, Task: HRP763_1, User: MJC

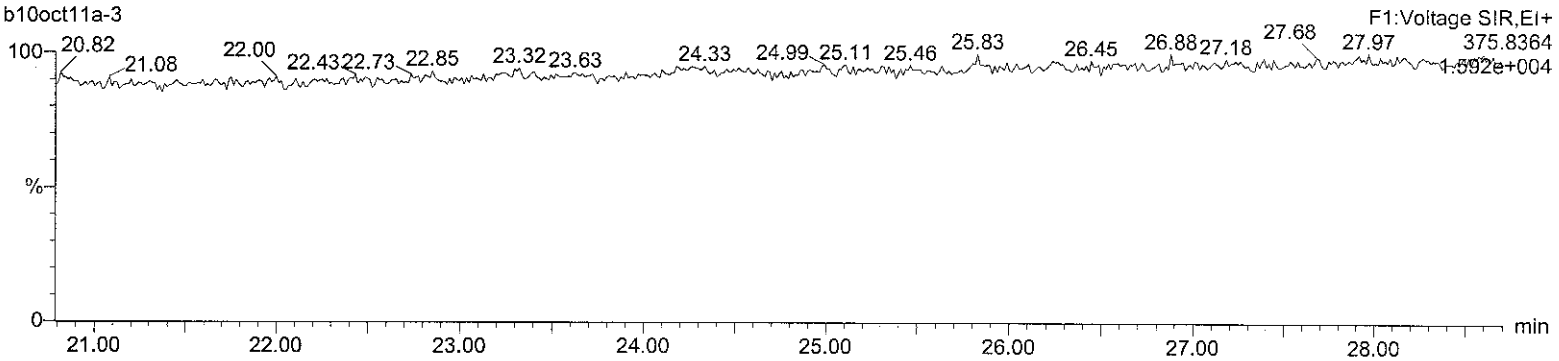
Total-pentafurans (F1)



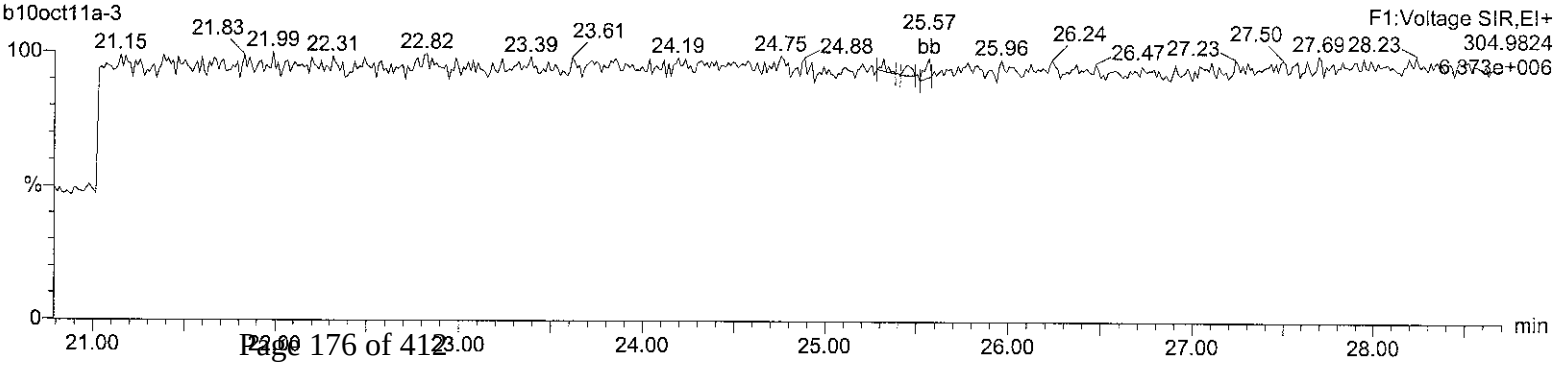
Total-pentafurans (F1)



HxDPE



Lock Mass F1



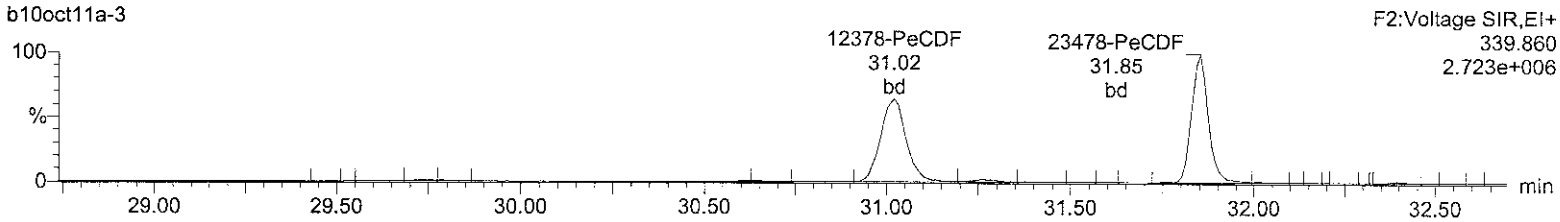
Quantify Sample Report **MassLynx 4.1**
Method 8290 Quantification Report

Dataset: C:\MassLynx\Default.pro\Sample Results\8290-b10oct11a.qld

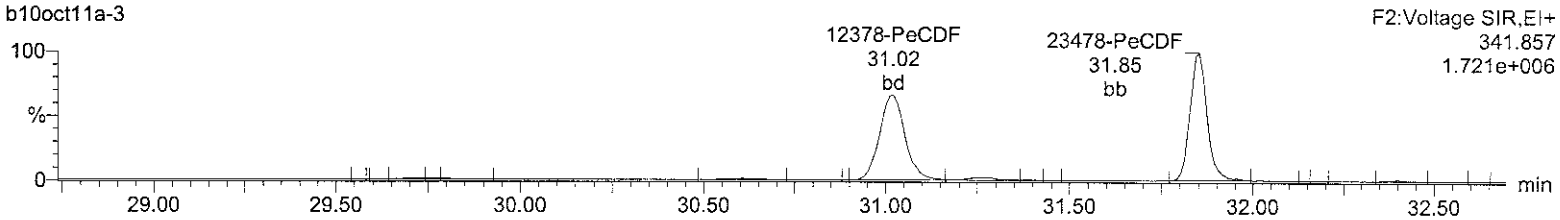
Last Altered: Tuesday, October 11, 2011 08:03:54 Eastern Standard Time
Printed: Tuesday, October 11, 2011 08:04:29 Eastern Standard Time

Name: b10oct11a-3, Date: 10-Oct-2011, Time: 14:49:08, ID: 12004341-1 LCSD, Description: 19680, Job: HMS8290_1S, Task: HRP763_1, User: MJC

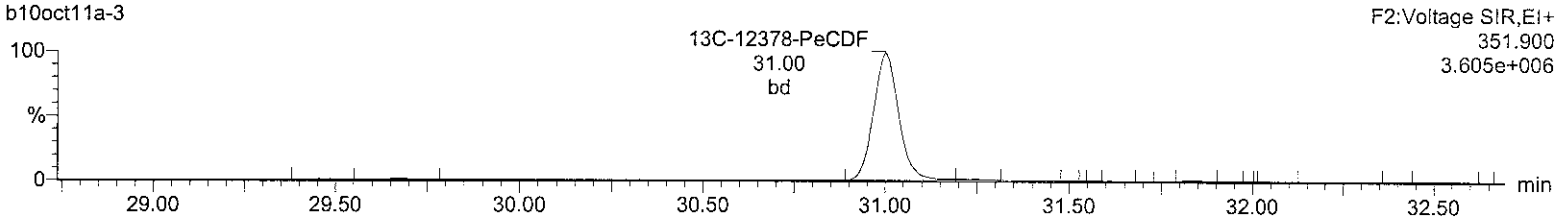
Total-pentafurans



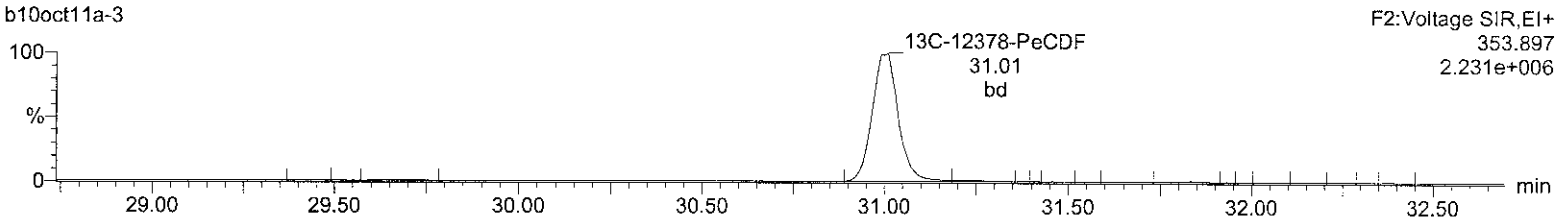
Total-pentafurans



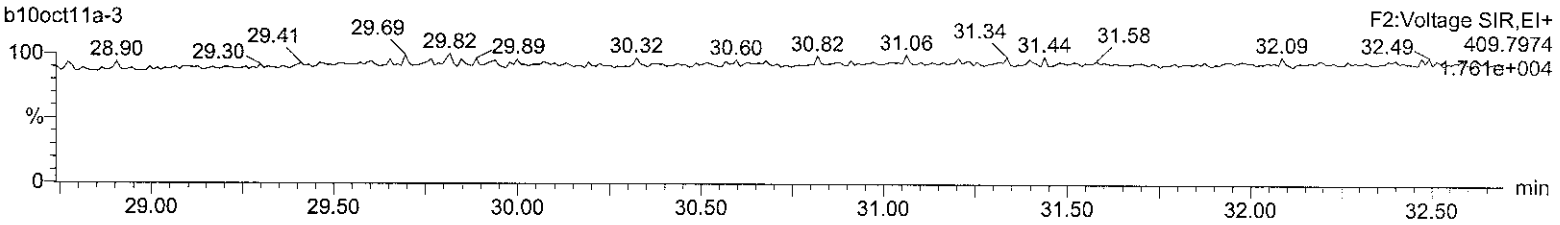
13C-12378-PeCDF



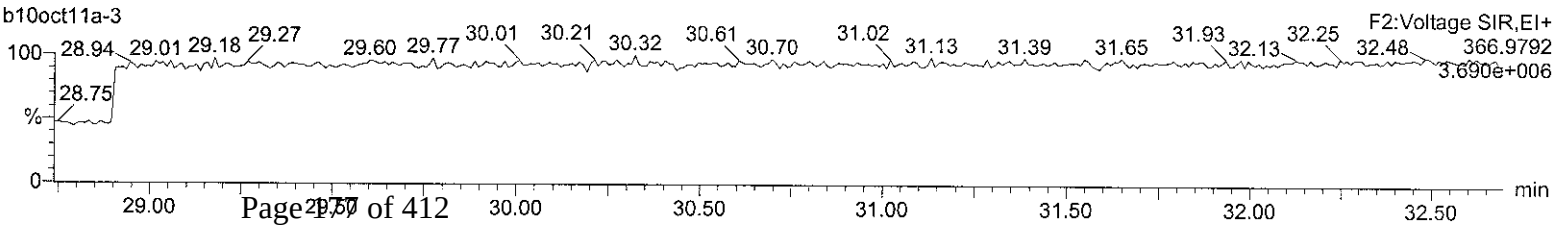
13C-12378-PeCDF



HpDPE



Lock Mass F2



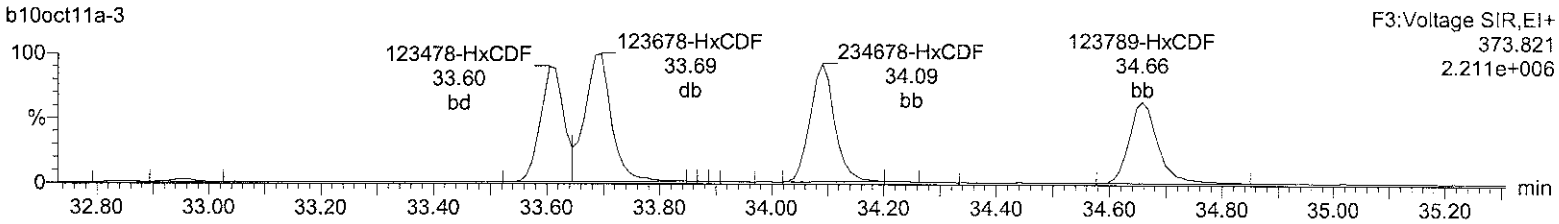
Quantify Sample Report **MassLynx 4.1**
Method 8290 Quantification Report

Dataset: C:\MassLynx\Default.pro\Sample Results\8290-b10oct11a.qld

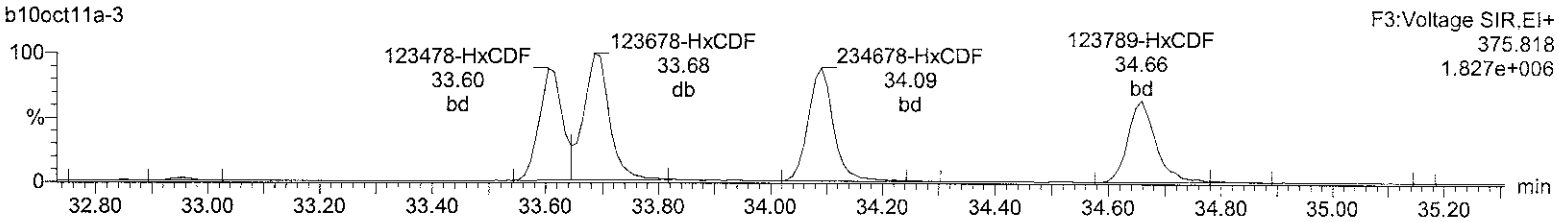
Last Altered: Tuesday, October 11, 2011 08:03:54 Eastern Standard Time
Printed: Tuesday, October 11, 2011 08:04:29 Eastern Standard Time

Name: b10oct11a-3, Date: 10-Oct-2011, Time: 14:49:08, ID: 12004341-1 LCSD, Description: 19680, Job: HMS8290_1S, Task: HRP763_1, User: MJC

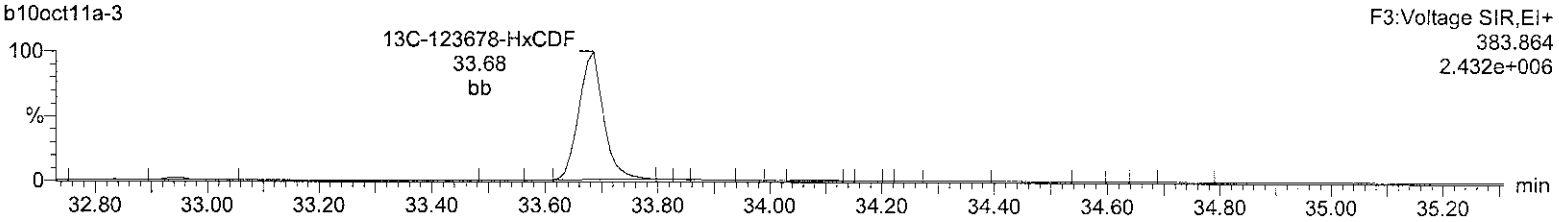
Total-hexafurans



Total-hexafurans



13C-123678-HxCDF



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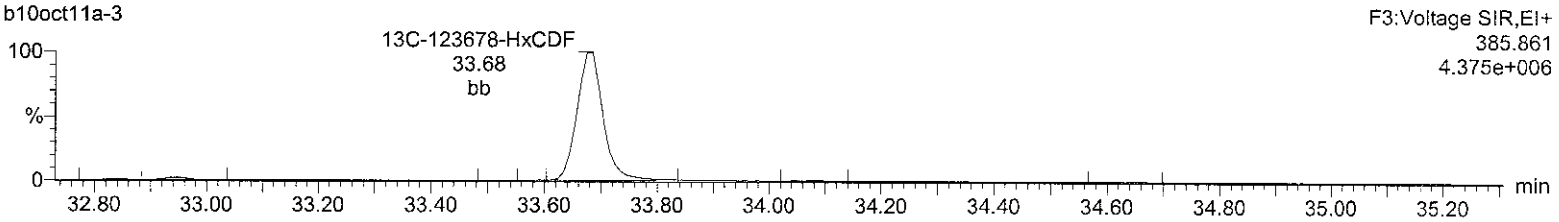
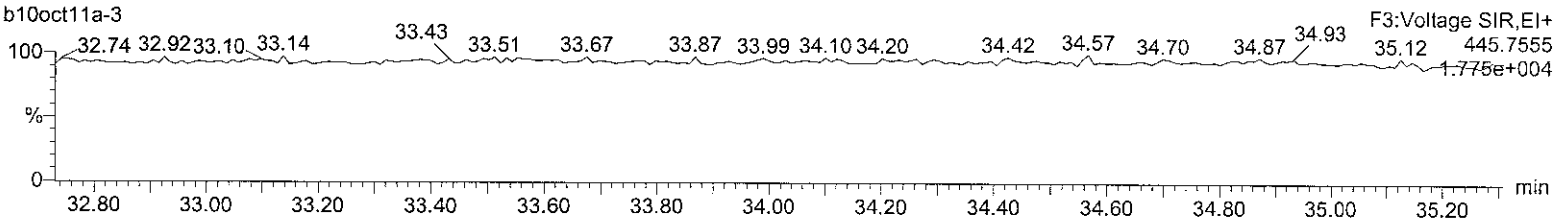
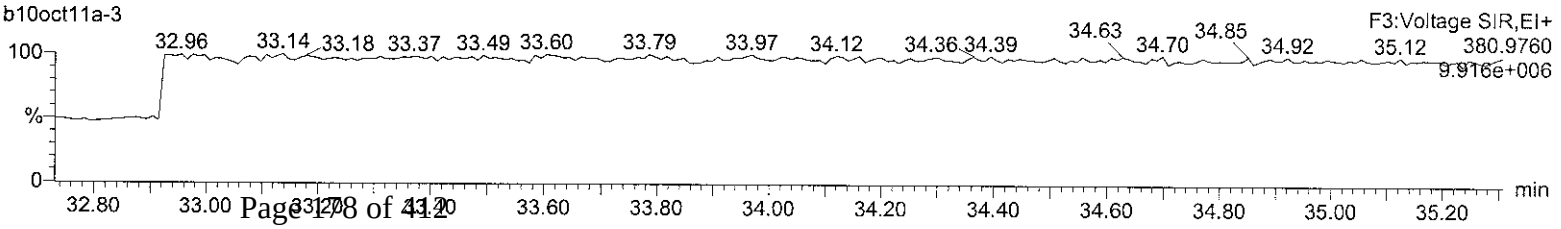


OcDPE



Lock Mass F3



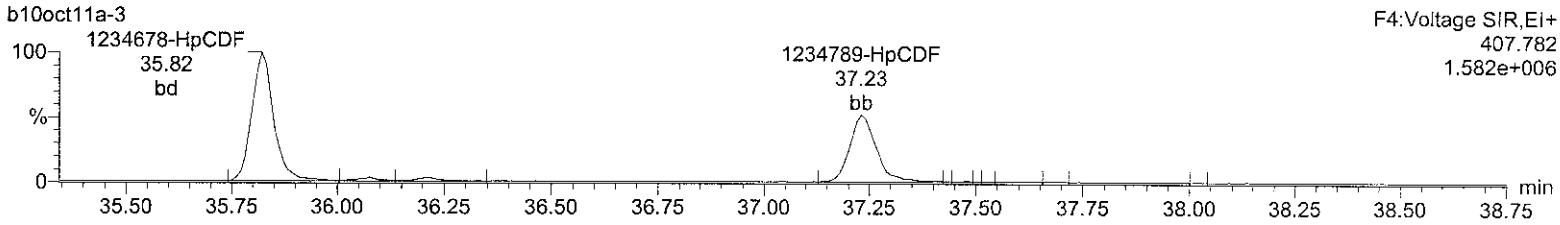
Quantify Sample Report **MassLynx 4.1**
Method 8290 Quantification Report

Dataset: C:\MassLynx\Default.pro\Sample Results\8290-b10oct11a.qld

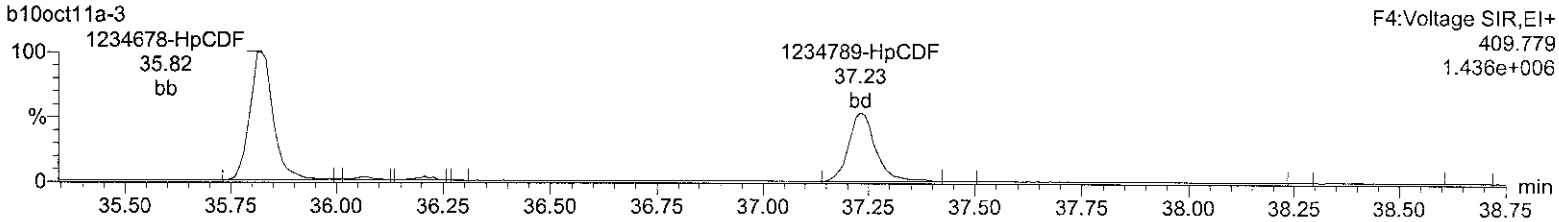
Last Altered: Tuesday, October 11, 2011 08:03:54 Eastern Standard Time
Printed: Tuesday, October 11, 2011 08:04:29 Eastern Standard Time

Name: b10oct11a-3, Date: 10-Oct-2011, Time: 14:49:08, ID: 12004341-1 LCSD, Description: 19680, Job: HMS8290_1S, Task: HRP763_1, User: MJC

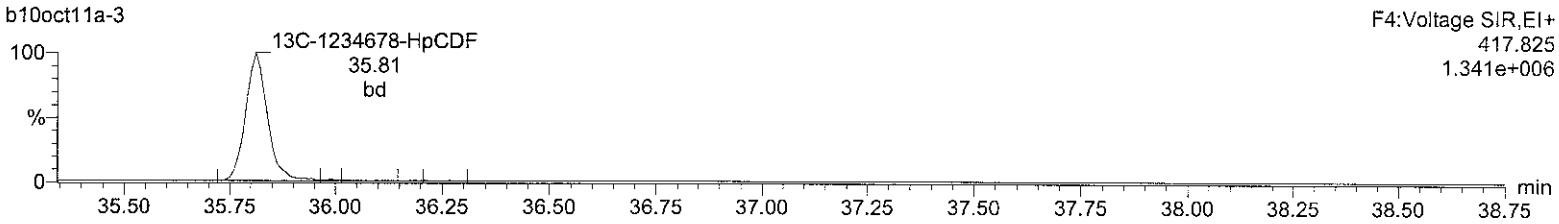
Total-heptafurans



Total-heptafurans



13C-1234678-HpCDF



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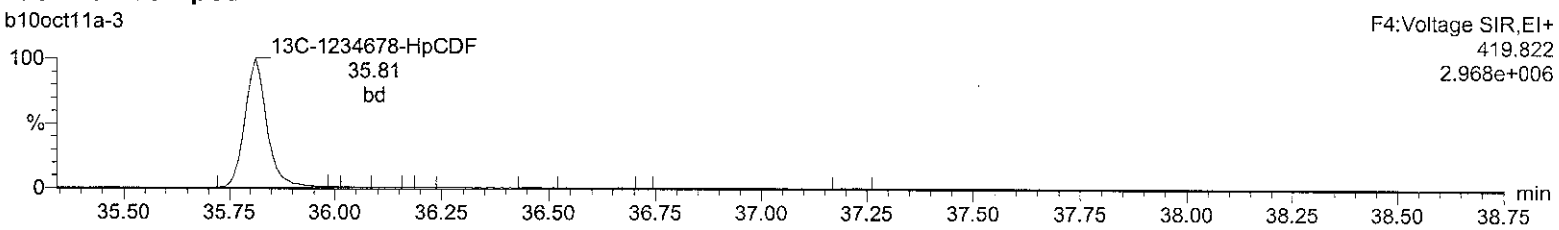

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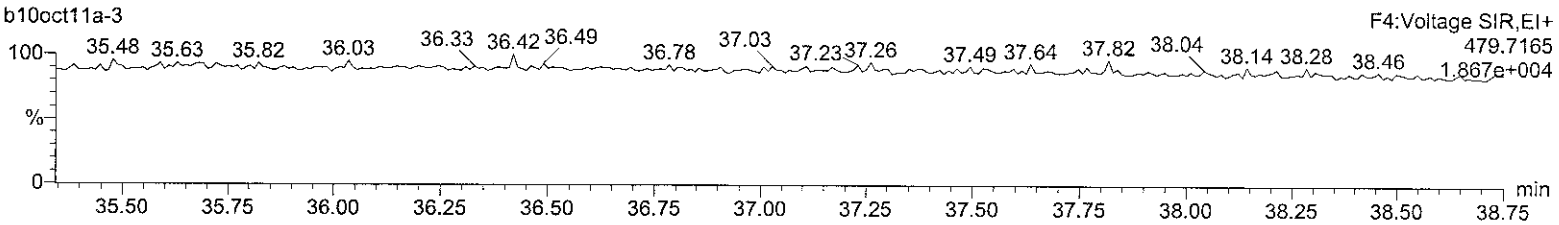
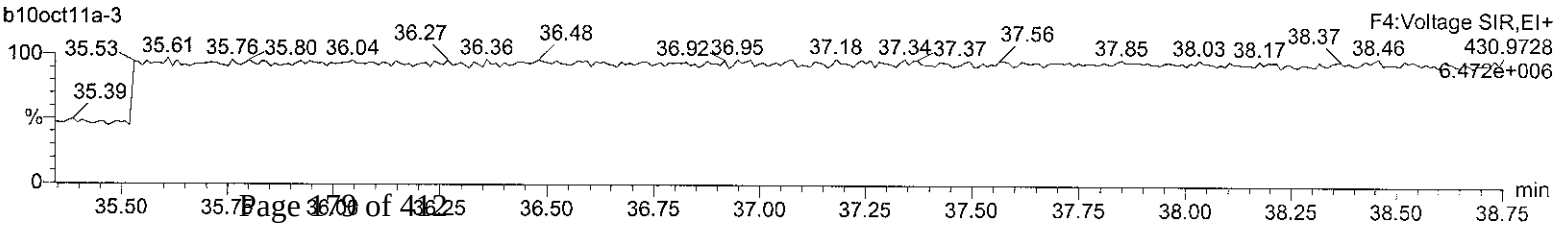


Lock Mass F4



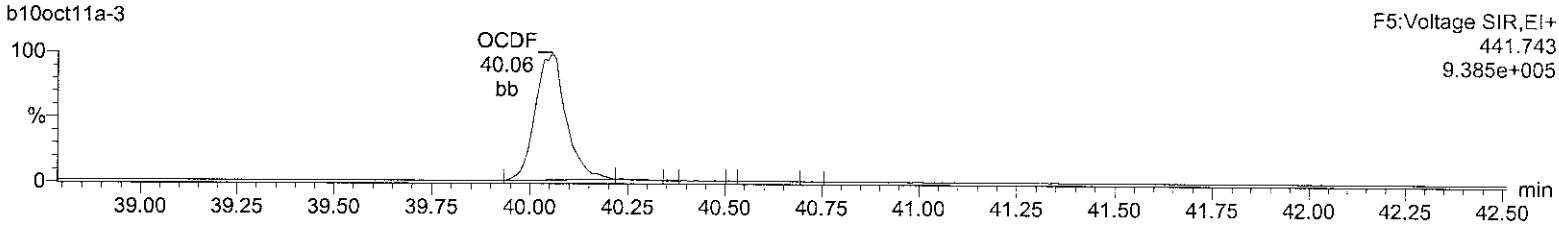
Quantify Sample Report **MassLynx 4.1**
Method 8290 Quantification Report

Dataset: C:\MassLynx\Default.pro\Sample Results\8290-b10oct11a.qld

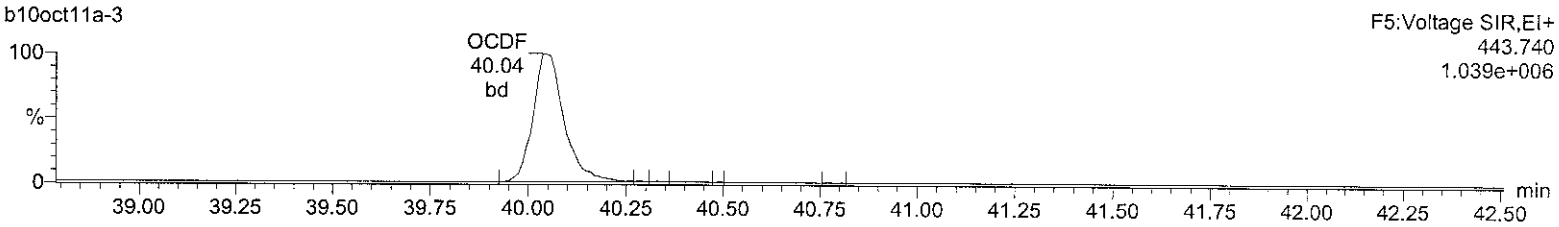
Last Altered: Tuesday, October 11, 2011 08:03:54 Eastern Standard Time
Printed: Tuesday, October 11, 2011 08:04:29 Eastern Standard Time

Name: b10oct11a-3, Date: 10-Oct-2011, Time: 14:49:08, ID: 12004341-1 LCSD, Description: 19680, Job: HMS8290_1S, Task: HRP763_1, User: MJC

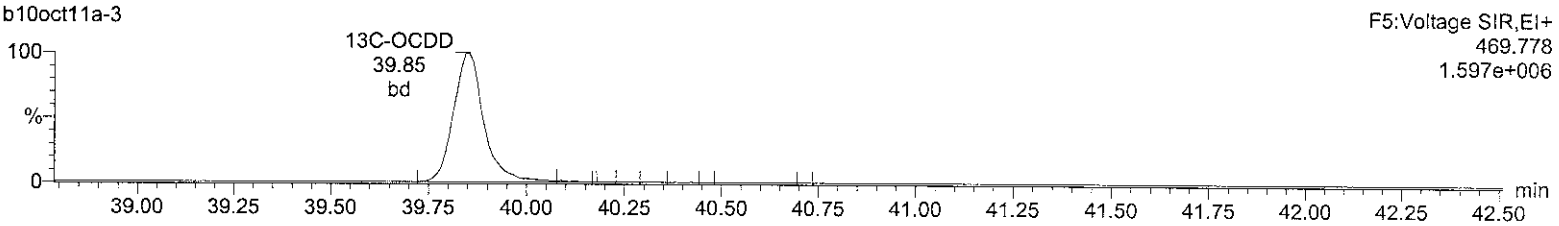
OCDF



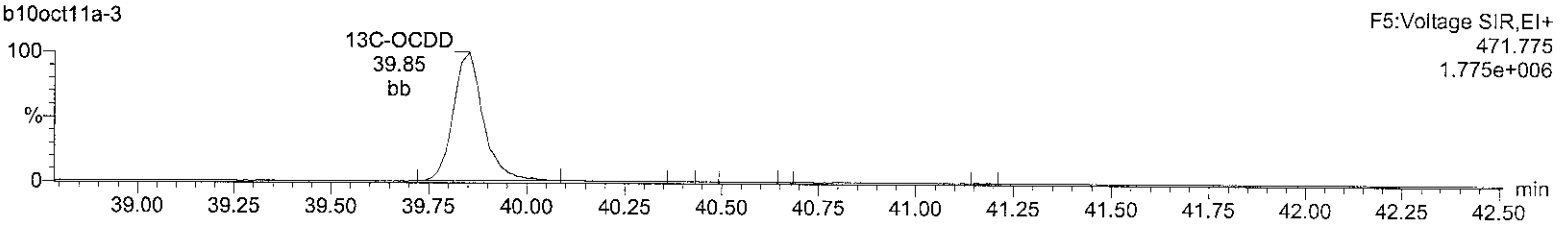
OCDF



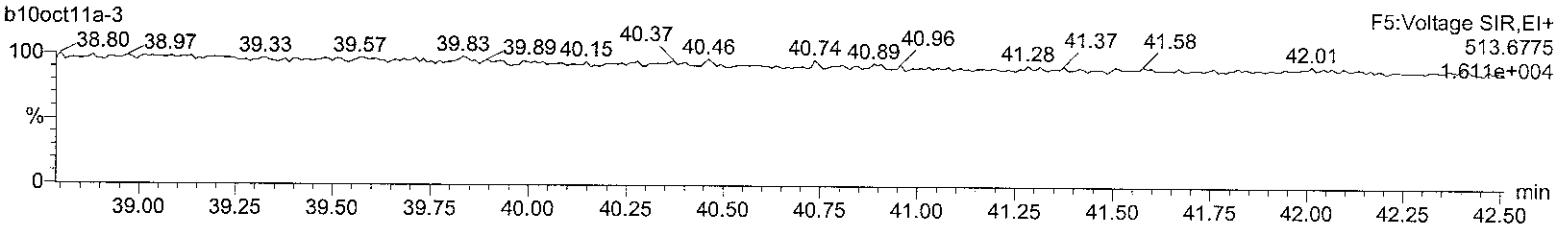
13C-OCDD



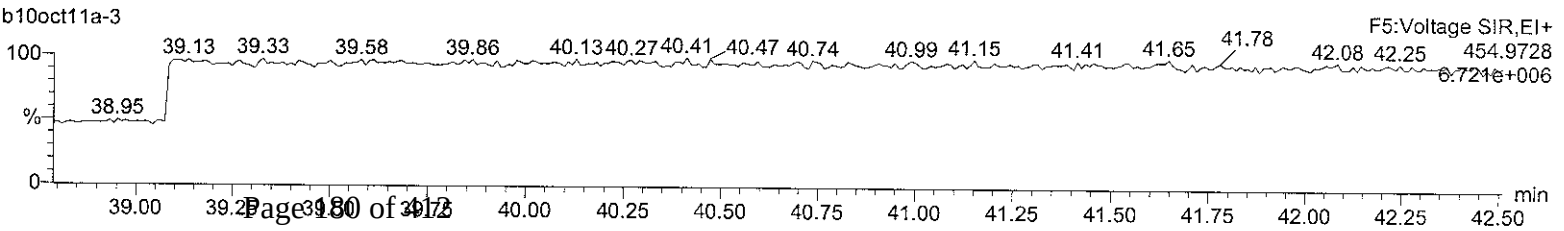
13C-OCDD



DeDPE



Lock Mass F5



Hi-Res Dioxins/Furans
Certificate of Analysis
Sample Summary

SDG Number:	**1109191**	**Client:**	**EMPI001**	**Project:**	**QC**
Lab Sample ID:	**12004404**			**Matrix:**	**WATER**
Client Sample:	**QC for batch 19665**				
Client ID:	**LCSD for batch 19665**			**Prep Basis:**	**As Received**
Batch ID:	**19685**	**Method:**	**SW846 8290A**		
Run Date:	**10/11/2011 01:21**	**Analyst:**	**MJC**	**Instrument:**	**HRP763**
Data File:	**b10oct11a_2-2**			**Dilution:**	**1**
Prep Batch:	**19665**	**Prep Method:**	**SW846 3520C**		
Prep Date:	**04-OCT-11**	**Aliquot:**	**1000 mL**		

CAS No.	Parmname	Qual	Result	EMPC	Units	EDL	PQL
1746-01-6	2,3,7,8-TCDD		196		pg/L	3.04	10.0
40321-76-4	1,2,3,7,8-PeCDD		976		pg/L	2.24	50.0
39227-28-6	1,2,3,4,7,8-HxCDD		1090		pg/L	3.70	50.0
57653-85-7	1,2,3,6,7,8-HxCDD		987		pg/L	3.42	50.0
19408-74-3	1,2,3,7,8,9-HxCDD		1190		pg/L	3.82	50.0
35822-46-9	1,2,3,4,6,7,8-HpCDD		988		pg/L	3.58	50.0
3268-87-9	1,2,3,4,6,7,8,9-OCDD		2140		pg/L	5.92	100
51207-31-9	2,3,7,8-TCDF		185		pg/L	1.79	10.0
57117-41-6	1,2,3,7,8-PeCDF		1050		pg/L	4.74	50.0
57117-31-4	2,3,4,7,8-PeCDF		1040		pg/L	4.84	50.0
70648-26-9	1,2,3,4,7,8-HxCDF		1010		pg/L	4.54	50.0
57117-44-9	1,2,3,6,7,8-HxCDF		1080		pg/L	3.90	50.0
72918-21-9	1,2,3,7,8,9-HxCDF		965		pg/L	5.22	50.0
60851-34-5	2,3,4,6,7,8-HxCDF		1080		pg/L	4.32	50.0
67562-39-4	1,2,3,4,6,7,8-HpCDF		1070		pg/L	3.66	50.0
55673-89-7	1,2,3,4,7,8,9-HpCDF		1180		pg/L	5.04	50.0
39001-02-0	1,2,3,4,6,7,8,9-OCDF		1540		pg/L	4.12	100

Surrogate/Tracer recovery	Qual	Result	Nominal	Units	Recovery%	Acceptable Limits
13C-2,3,7,8-TCDD		1470	2000	pg/L	73.5	(40%-135%)
13C-1,2,3,7,8-PeCDD		1510	2000	pg/L	75.3	(40%-135%)
13C-1,2,3,6,7,8-HxCDD		1370	2000	pg/L	68.6	(40%-135%)
13C-1,2,3,4,6,7,8-HpCDD		1850	2000	pg/L	92.4	(40%-135%)
13C-OCDD		3580	4000	pg/L	89.6	(40%-135%)
13C-2,3,7,8-TCDF		1490	2000	pg/L	74.3	(40%-135%)
13C-1,2,3,7,8-PeCDF		1290	2000	pg/L	64.3	(40%-135%)
13C-1,2,3,6,7,8-HxCDF		1080	2000	pg/L	53.9	(40%-135%)
13C-1,2,3,4,6,7,8-HpCDF		1120	2000	pg/L	55.8	(40%-135%)

Comments:

K Estimated Maximum Possible Concentration

Quantify Sample Summary Report **MassLynx 4.1**
Method 8290 Quantification Report

Dataset: C:\MassLynx\Default.pro\Sample Results\8290-b10oct11a_2.qld

Last Altered: Tuesday, October 11, 2011 13:39:25 Eastern Standard Time
Printed: Tuesday, October 11, 2011 13:52:58 Eastern Standard Time

HMP
11Oct11

Method: C:\MassLynx\Default.pro\Methdb\CFA_EPA8290_101011.mdb 10 Oct 2011 14:05:54
Calibration: C:\MassLynx\Default.pro\Curvedb\8290-b01nov10b.cdb 02 Nov 2010 08:19:01

12004404-1 19685 HMS8290-1L

Name: b10oct11a_2-2, Date: 11-Oct-2011, Time: 01:21:29, ID: 12004351-1 LCSD, Description: 19684, Job: HMS8290_1L, Task: HRP763_1, User: MJC

19686 HMS8290TCL

	Name	Ion1Area	Ion2Area	Response	RT	RRT	RA	Fail?	pg/uL	EDL	Height1	Noise1	S/N1	Height2	Noise2	S/N2	M
1	2378-TCDD	1.72e4	2.13e4	3.84e4	26.58	1.000	0.81	NO	9.818	0.152	1.66e5	1149	144.6	2.04e5	1124	181.7	bb
2	12378-PeCDD	1.04e5	6.57e4	1.69e5	32.08	1.000	1.58	NO	48.812	0.112	2.15e6	2027	1058.5	1.38e6	1233	1118.0	bb
3	123478-HxCDD	9.39e4	7.51e4	1.69e5	34.21	0.998	1.25	NO	54.690	0.185	2.02e6	2106	959.9	1.59e6	2868	553.8	bd
4	123678-HxCDD	9.22e4	7.24e4	1.65e5	34.28	1.000	1.27	NO	49.351	0.171	2.02e6	2106	956.8	1.62e6	2868	563.4	dd
5	123789-HxCDD	9.90e4	7.82e4	1.77e5	34.46	1.005	1.27	NO	59.421	0.191	1.95e6	2106	924.3	1.63e6	2868	567.5	dd
6	1234678-HpCDD	8.46e4	8.13e4	1.66e5	36.79	1.000	1.04	NO	49.382	0.179	1.46e6	1859	783.5	1.33e6	2180	610.7	bb
7	OCDD	1.37e5	1.52e5	2.89e5	39.89	1.001	0.90	NO	107.173	0.296	1.68e6	1459	1149.4	1.83e6	2511	727.0	bd
8	2378-TCDF	2.58e4	3.20e4	5.78e4	25.68	1.001	0.80	NO	9.244	0.0894	2.48e5	996	248.6	3.13e5	1183	264.6	bb
9	12378-PeCDF	1.52e5	9.84e4	2.51e5	31.04	1.000	1.55	NO	52.432	0.237	2.01e6	3602	558.7	1.33e6	2454	542.3	bb
10	23478-PeCDF	1.47e5	9.58e4	2.43e5	31.86	1.027	1.53	NO	51.884	0.242	2.95e6	3602	819.0	1.97e6	2454	801.5	bb
11	123478-HxCDF	1.01e5	8.22e4	1.83e5	33.62	0.998	1.22	NO	50.618	0.227	2.26e6	3153	717.3	1.80e6	3928	459.5	bd
12	123678-HxCDF	1.24e5	1.03e5	2.27e5	33.71	1.000	1.21	NO	53.985	0.195	2.62e6	3153	830.5	2.20e6	3928	559.9	db
13	234678-HxCDF	1.13e5	9.24e4	2.05e5	34.10	1.012	1.22	NO	54.054	0.216	2.40e6	3153	761.2	1.94e6	3928	494.8	bb
14	123789-HxCDF	8.49e4	6.68e4	1.52e5	34.67	1.029	1.27	NO	48.239	0.261	1.59e6	3153	504.1	1.27e6	3928	323.6	bd
15	1234678-HpCDF	9.54e4	9.12e4	1.87e5	35.84	1.000	1.05	NO	53.632	0.183	1.64e6	2362	692.4	1.71e6	2096	814.6	bd
16	1234789-HpCDF	7.61e4	7.39e4	1.50e5	37.25	1.039	1.03	NO	59.192	0.252	1.16e6	2362	492.5	1.12e6	2096	534.7	bd
17	OCDF	1.20e5	1.37e5	2.57e5	40.08	1.005	0.87	NO	77.140	0.206	1.48e6	1680	881.3	1.65e6	1745	946.2	bb
18	13C-2378-TCDD	1.72e5	2.15e5	3.87e5	26.56	1.027	0.80	NO	73.512	0.217	1.64e6	2829	580.4	2.04e6	1589	1282.5	bb
19	13C-12378-PeCDD	2.05e5	1.31e5	3.36e5	32.07	1.240	1.57	NO	75.278	0.182	4.31e6	1837	2347.6	2.84e6	1313	2158.5	bb
20	13C-123678-HxCDD	1.91e5	1.53e5	3.45e5	34.27	0.995	1.25	NO	68.584	0.127	4.17e6	3172	1313.5	3.40e6	2175	1562.2	bb
21	13C-1234678-HpCDD	1.71e5	1.63e5	3.34e5	36.78	1.068	1.05	NO	92.351	0.183	2.88e6	2684	1071.3	2.69e6	2846	944.9	bb
22	13C-OCDD	2.56e5	2.85e5	5.41e5	39.87	1.157	0.90	NO	179.150	0.146	3.19e6	2115	1509.9	3.54e6	1577	2242.0	bb
23	13C-2378-TCDF	2.83e5	3.53e5	6.36e5	25.66	0.992	0.80	NO	74.329	0.112	2.76e6	1979	1392.3	3.42e6	1732	1974.5	bb
24	13C-12378-PeCDF	3.08e5	2.03e5	5.12e5	31.03	1.200	1.52	NO	64.326	0.180	4.13e6	2472	1671.6	2.67e6	3087	864.7	bb
25	13C-123678-HxCDF	1.38e5	2.60e5	3.97e5	33.69	0.978	0.53	NO	53.899	0.122	2.97e6	4209	705.2	5.84e6	3315	1761.7	bb
26	13C-1234678-HpCDF	8.52e4	1.87e5	2.72e5	35.84	1.040	0.45	NO	55.767	0.0904	1.49e6	1927	772.0	3.33e6	1764	1885.5	bb
27	13C-1234-TCDD	2.09e5	2.61e5	4.70e5	25.86	0.000	0.80	NO	100.000	0.243	2.02e6	2829	714.5	2.53e6	1589	1589.4	bb
28	13C-123789-HxCDD	2.51e5	2.01e5	4.52e5	34.46	0.000	1.24	NO	100.000	0.142	5.23e6	3172	1650.3	4.14e6	2175	1902.4	bb
29	37Cl-2378-TCDD (SS)									0.0567		883					
30	13C-23478-PeCDF (SS)	1.31e3	9.42e2	2.25e3	31.86	1.027	1.39	NO	0.471	0.217	2.34e4	2472	9.5	2.27e4	3087	7.4	bb

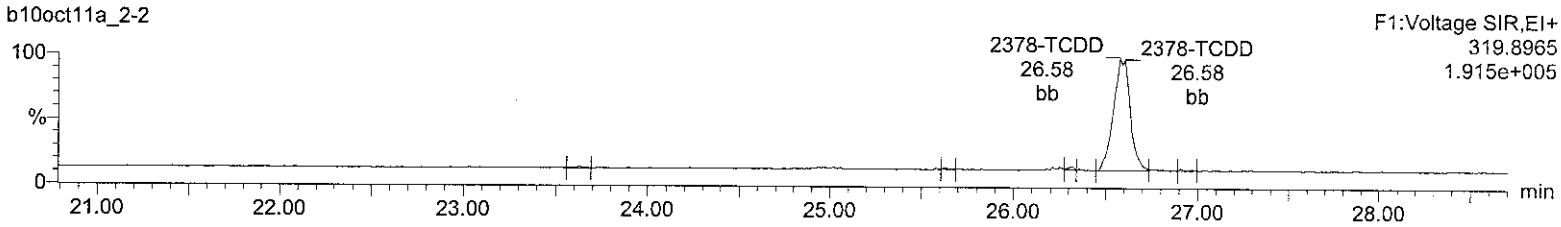
Quantify Sample Report **MassLynx 4.1**
Method 8290 Quantification Report

Dataset: C:\MassLynx\Default.pro\Sample Results\8290-b10oct11a_2.qld

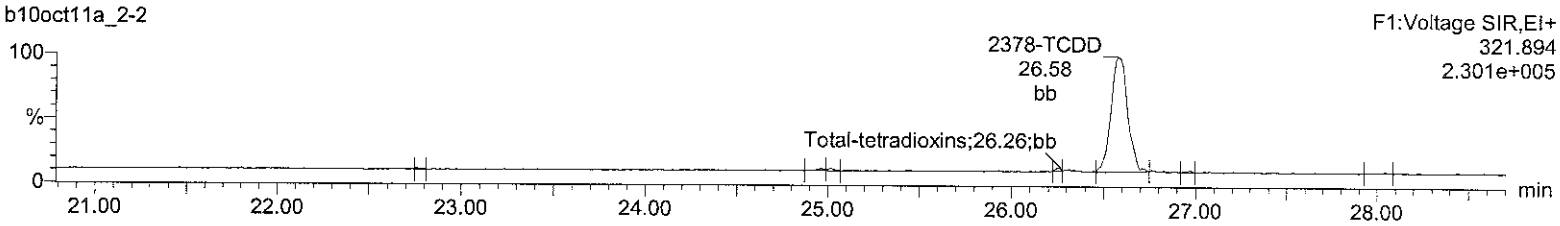
Last Altered: Tuesday, October 11, 2011 13:39:25 Eastern Standard Time
Printed: Tuesday, October 11, 2011 13:40:15 Eastern Standard Time

Name: b10oct11a_2-2, Date: 11-Oct-2011, Time: 01:21:29, ID: 12004351-1 LCSD, Description: 19684, Job: HMS8290_1L, Task: HRP763_1, User: MJC

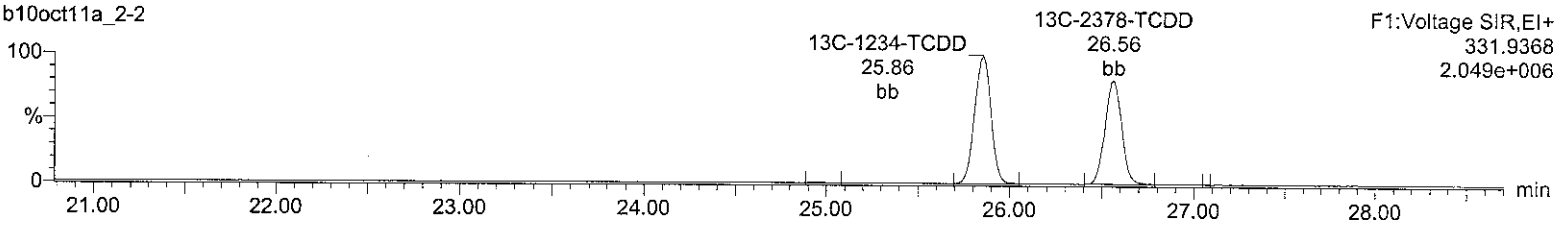
Total-tetradioxins



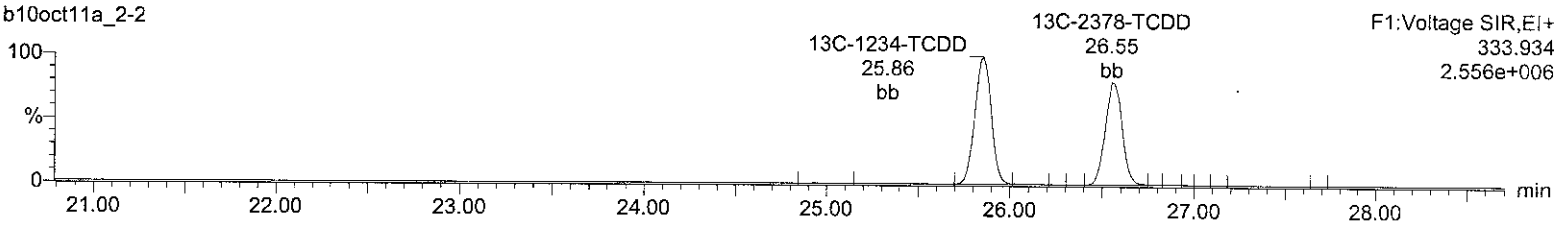
Total-tetradioxins



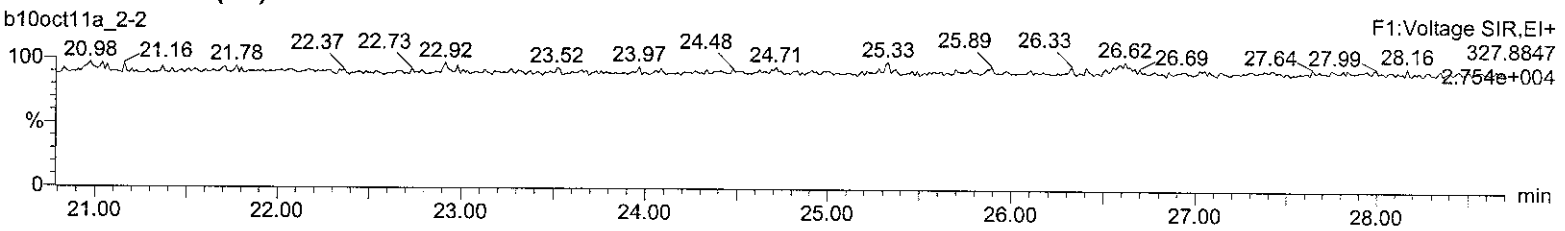
13C-2378-TCDD



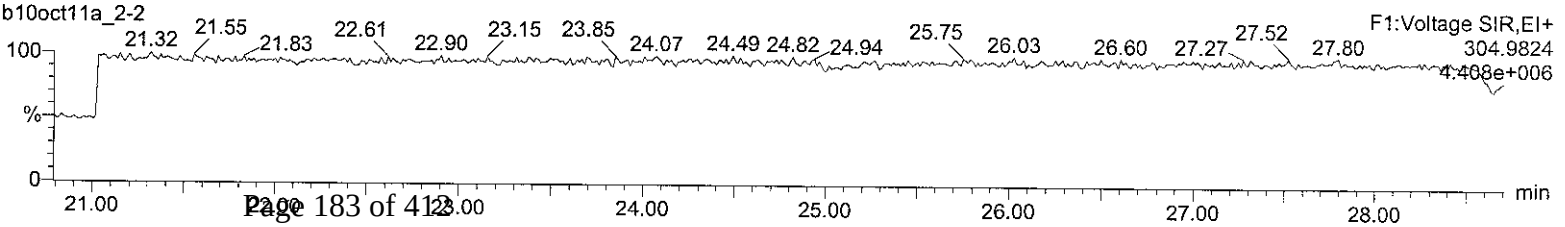
13C-2378-TCDD



37Cl-2378-TCDD (SS)



Lock Mass F1



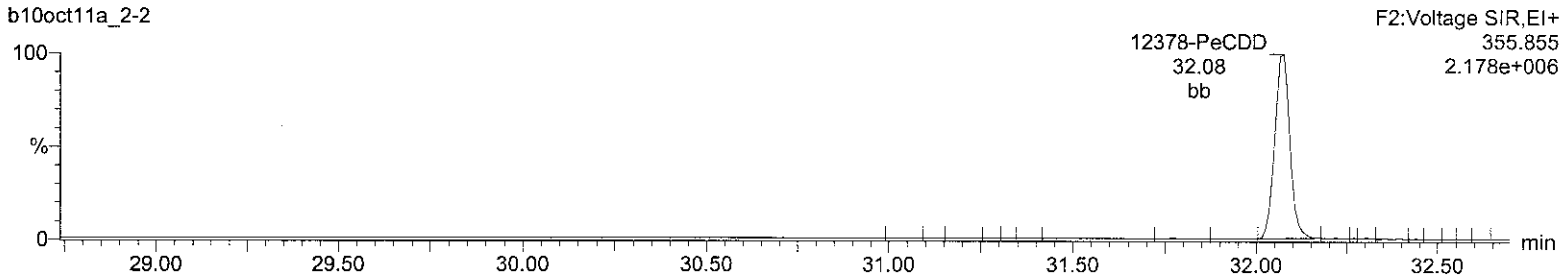
Quantify Sample Report **MassLynx 4.1**
Method 8290 Quantification Report

Dataset: C:\MassLynx\Default.pro\Sample Results\8290-b10oct11a_2.qld

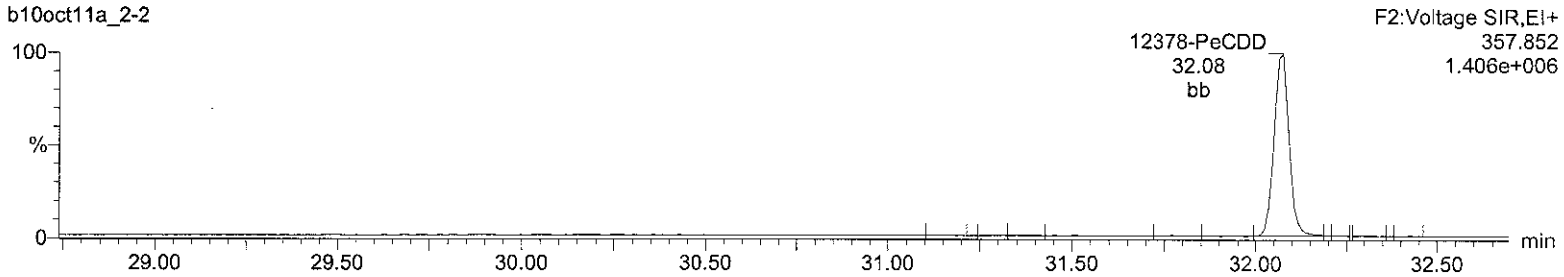
Last Altered: Tuesday, October 11, 2011 13:39:25 Eastern Standard Time
Printed: Tuesday, October 11, 2011 13:40:15 Eastern Standard Time

Name: b10oct11a_2-2, Date: 11-Oct-2011, Time: 01:21:29, ID: 12004351-1 LCSD, Description: 19684, Job: HMS8290_1L, Task: HRP763_1, User: MJC

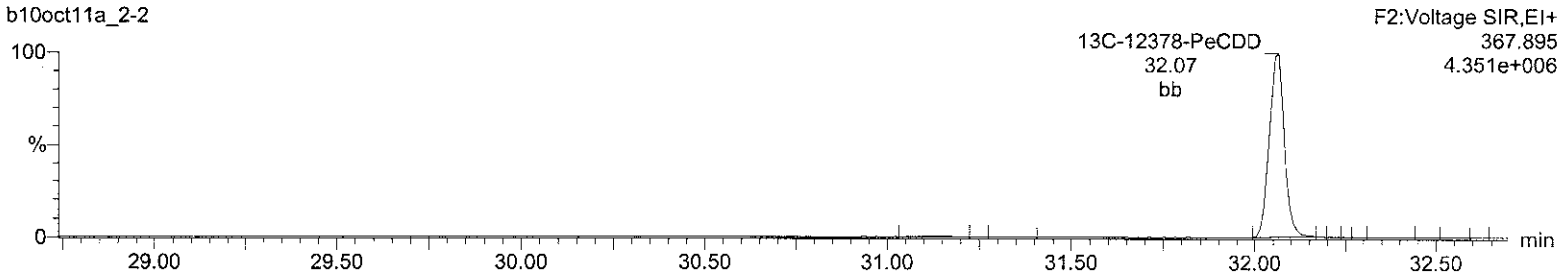
Total-pentadioxins



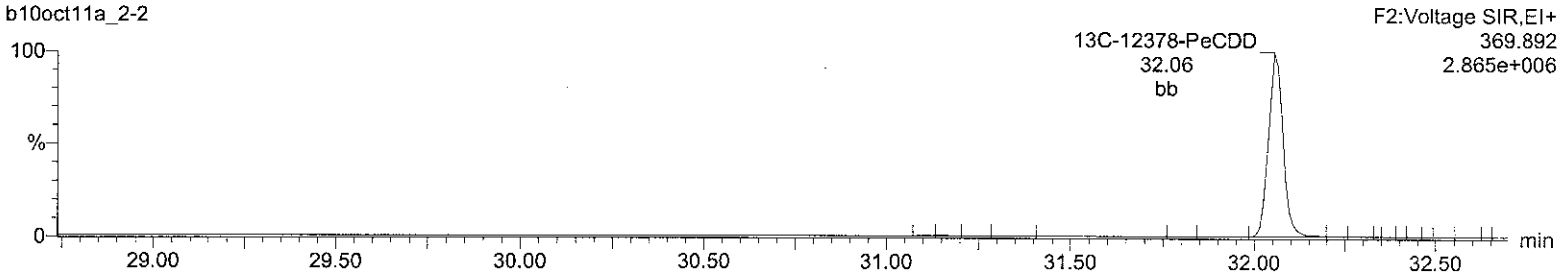
Total-pentadioxins



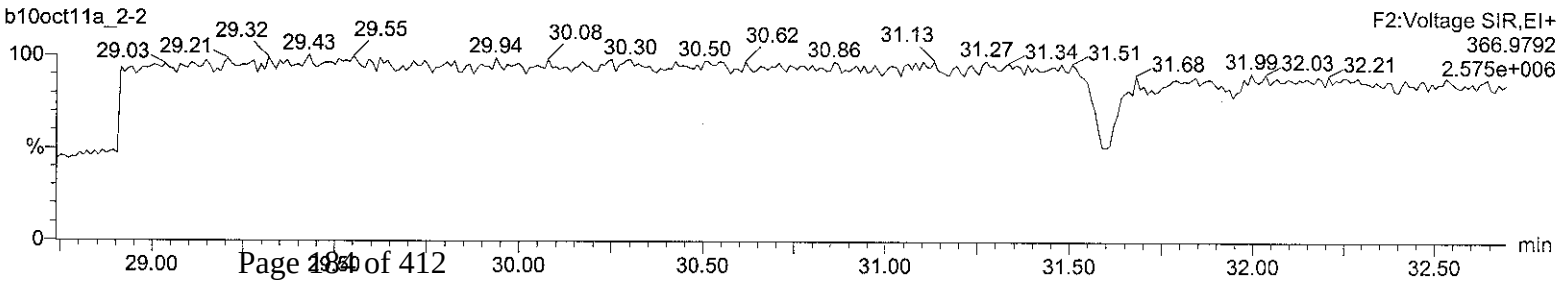
13C-12378-PeCDD



13C-12378-PeCDD



Lock Mass F2



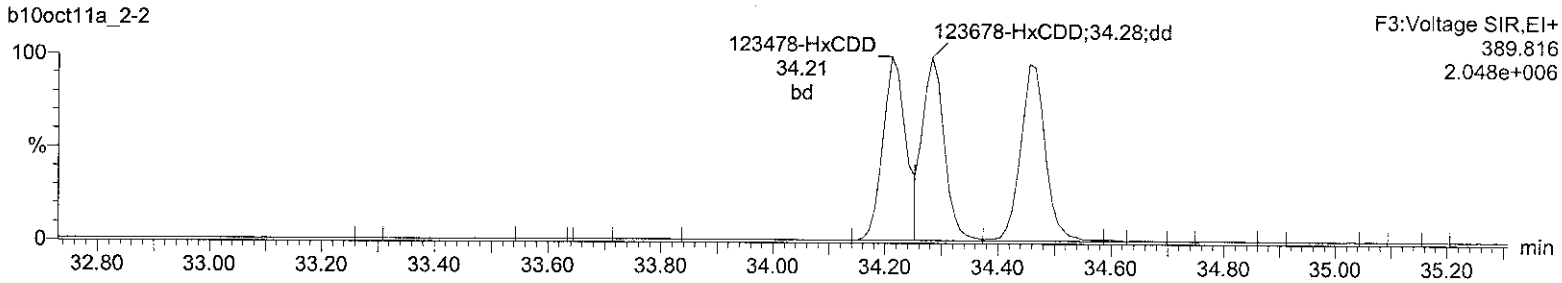
Quantify Sample Report **MassLynx 4.1**
Method 8290 Quantification Report

Dataset: C:\MassLynx\Default.pro\Sample Results\8290-b10oct11a_2.qld

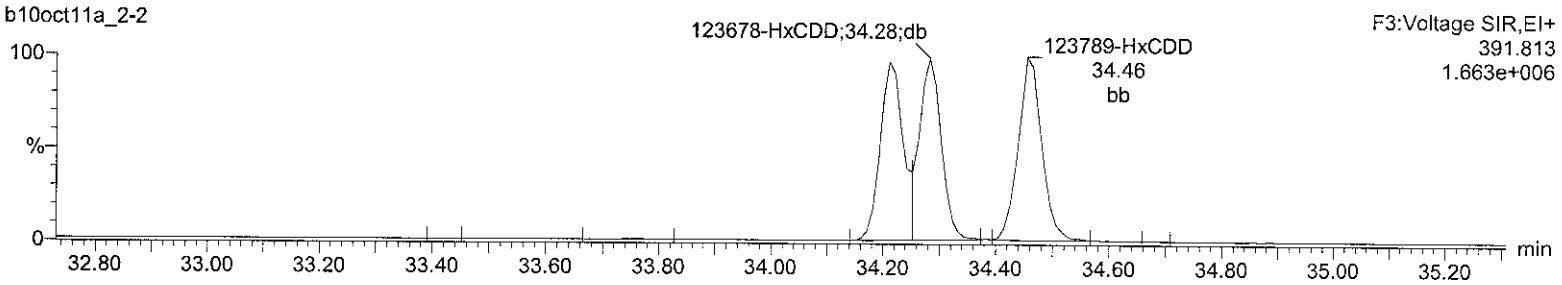
Last Altered: Tuesday, October 11, 2011 13:39:25 Eastern Standard Time
Printed: Tuesday, October 11, 2011 13:40:15 Eastern Standard Time

Name: b10oct11a_2-2, Date: 11-Oct-2011, Time: 01:21:29, ID: 12004351-1 LCSD, Description: 19684, Job: HMS8290_1L, Task: HRP763_1, User: MJC

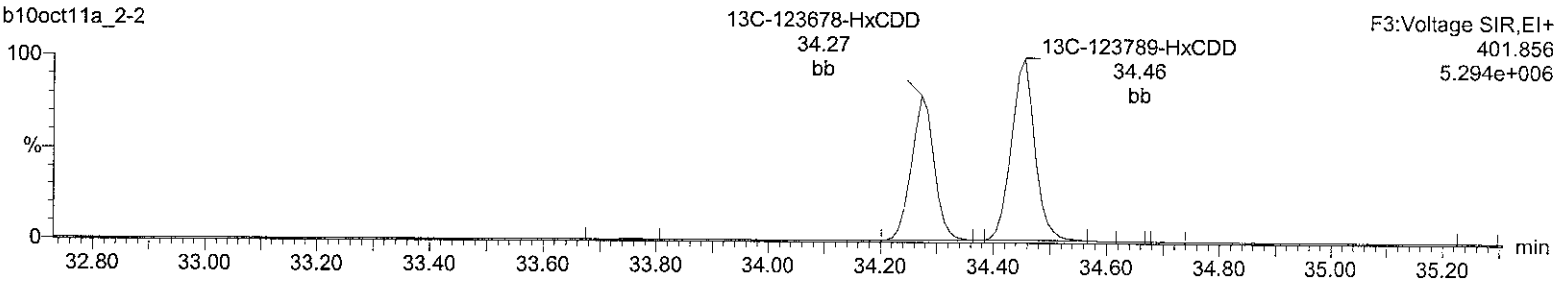
Total-hexadioxins



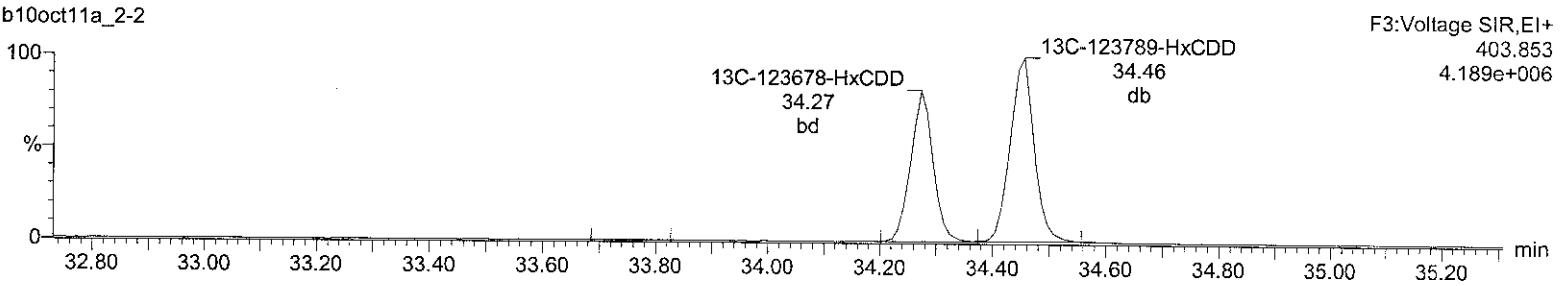
Total-hexadioxins



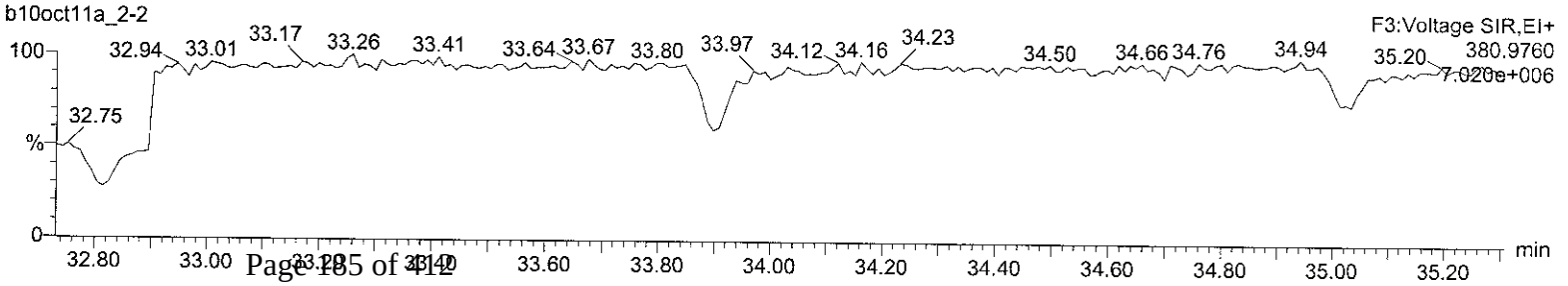
13C-123678-HxCDD



13C-123678-HxCDD



Lock Mass F3



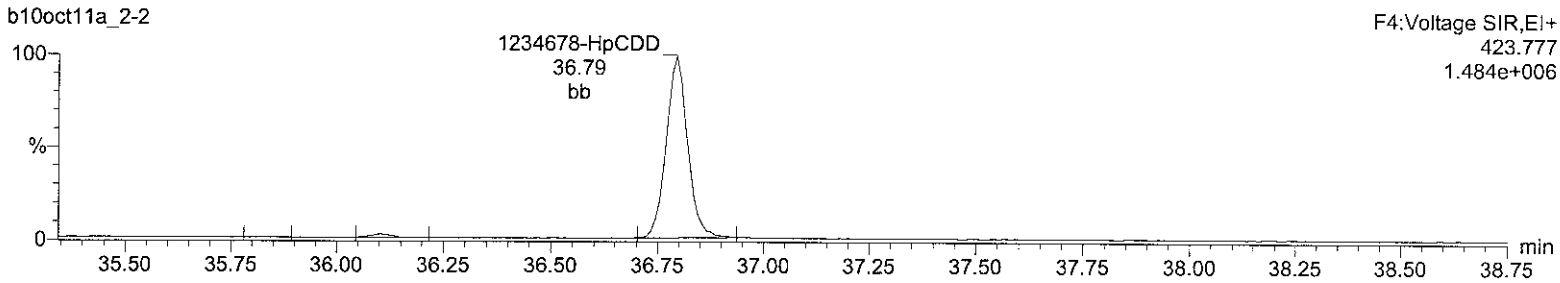
Quantify Sample Report **MassLynx 4.1**
Method 8290 Quantification Report

Dataset: C:\MassLynx\Default.pro\Sample Results\8290-b10oct11a_2.qld

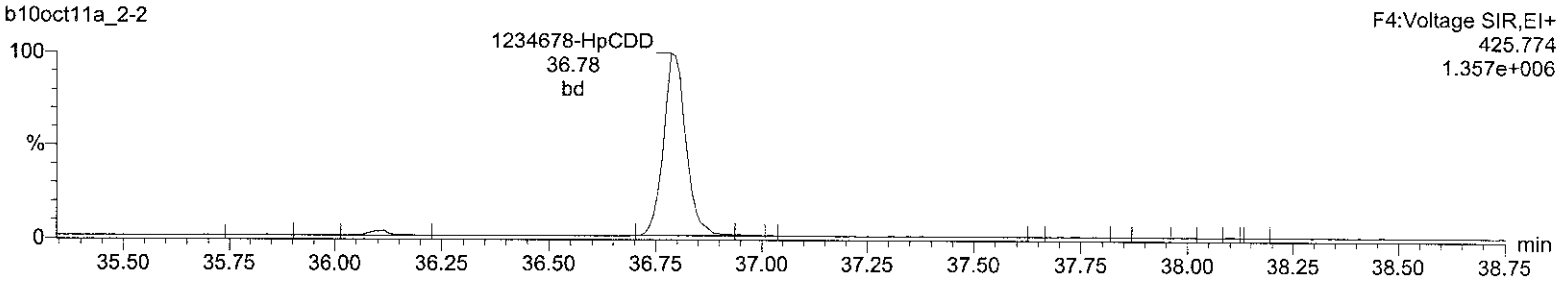
Last Altered: Tuesday, October 11, 2011 13:39:25 Eastern Standard Time
Printed: Tuesday, October 11, 2011 13:40:15 Eastern Standard Time

Name: b10oct11a_2-2, Date: 11-Oct-2011, Time: 01:21:29, ID: 12004351-1 LCSD, Description: 19684, Job: HMS8290_1L, Task: HRP763_1, User: MJC

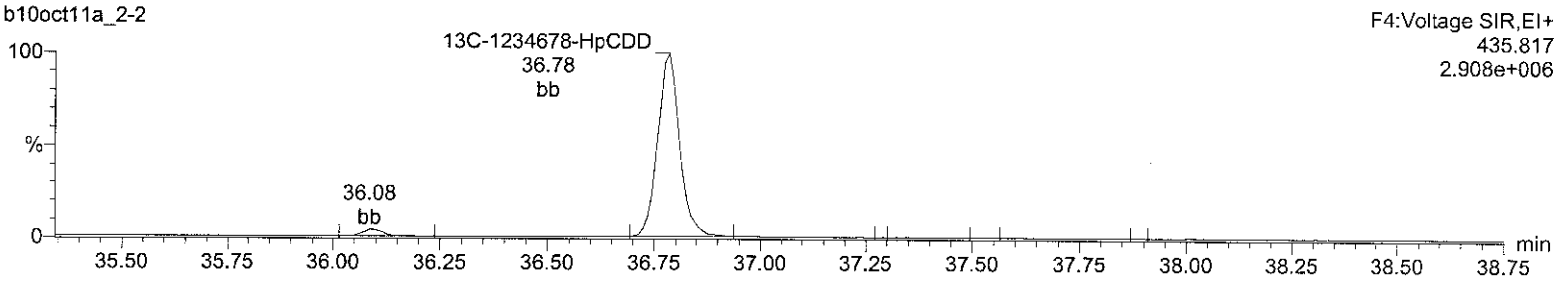
Total-heptadioxins



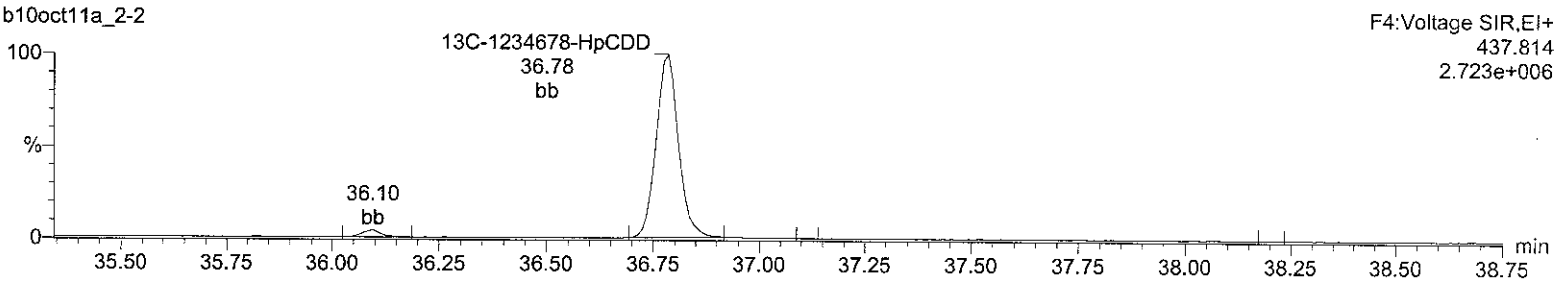
Total-heptadioxins



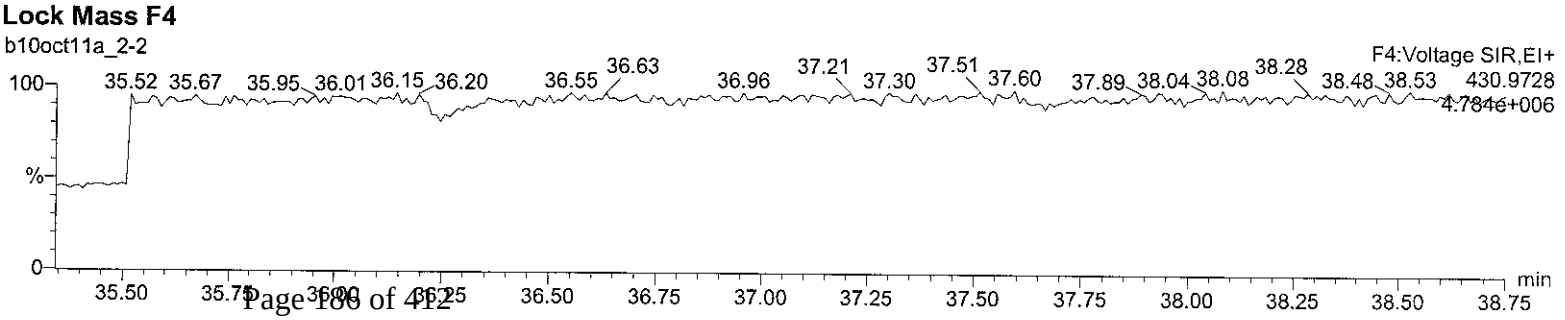
13C-1234678-HpCDD



13C-1234678-HpCDD



Lock Mass F4



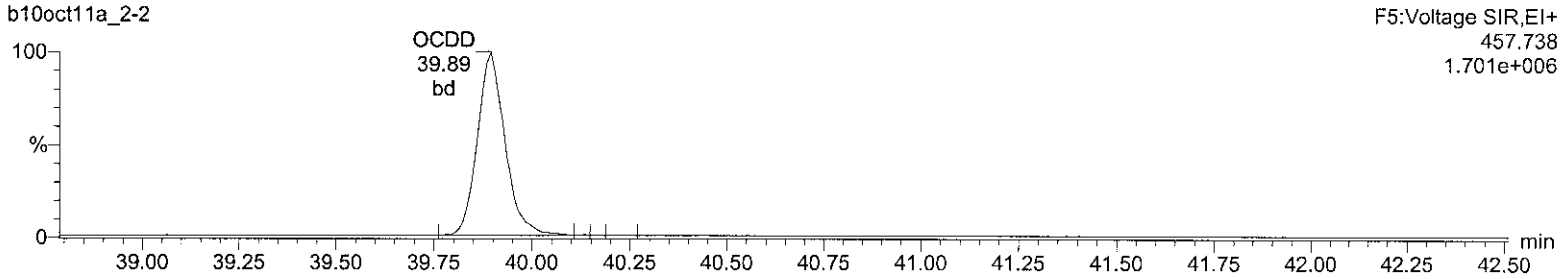
Quantify Sample Report **MassLynx 4.1**
Method 8290 Quantification Report

Dataset: C:\MassLynx\Default.pro\Sample Results\8290-b10oct11a_2.qld

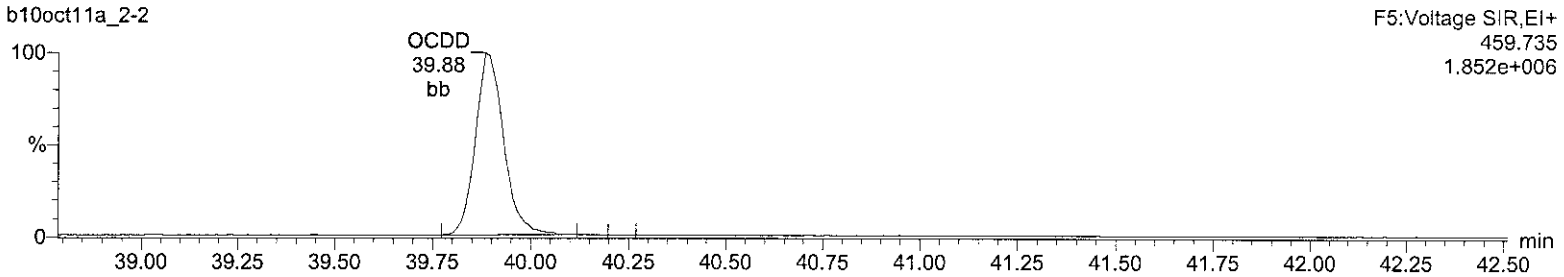
Last Altered: Tuesday, October 11, 2011 13:39:25 Eastern Standard Time
Printed: Tuesday, October 11, 2011 13:40:15 Eastern Standard Time

Name: b10oct11a_2-2, Date: 11-Oct-2011, Time: 01:21:29, ID: 12004351-1 LCSD, Description: 19684, Job: HMS8290_1L, Task: HRP763_1, User: MJC

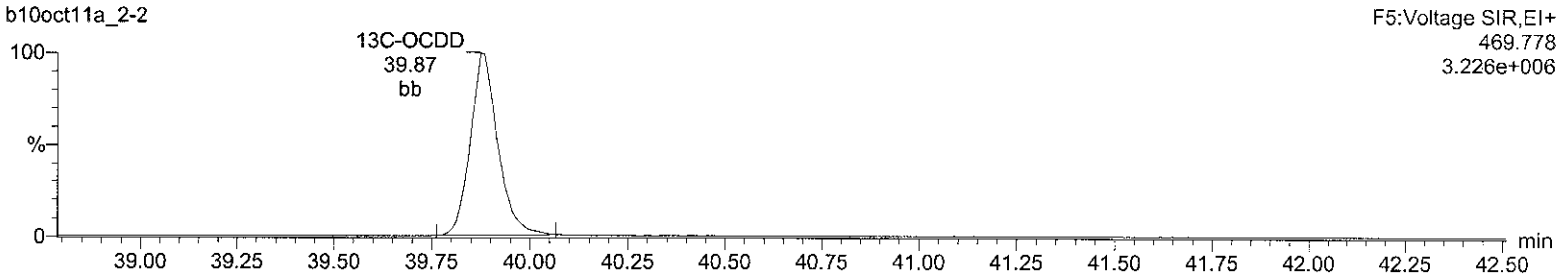
OCDD



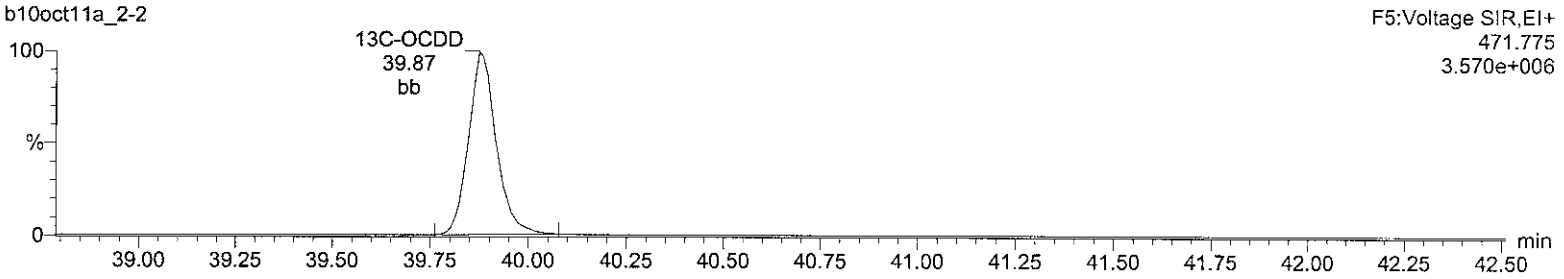
OCDD



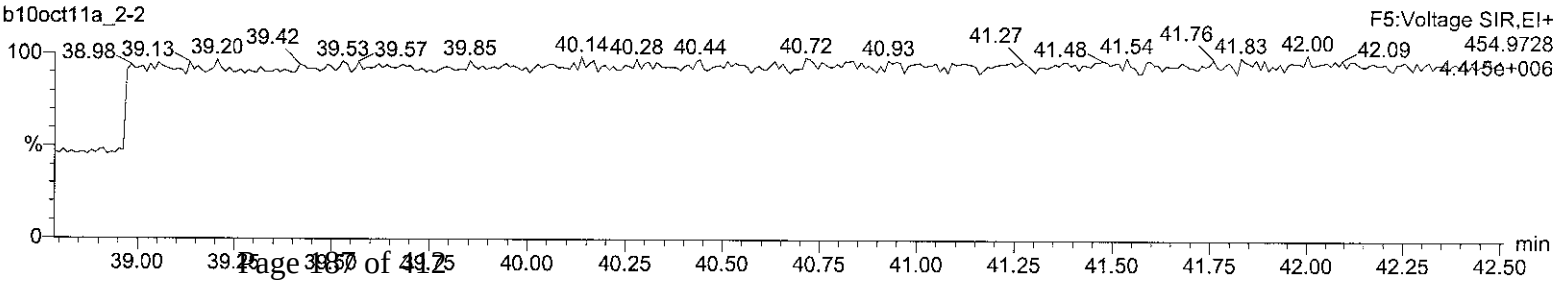
13C-OCDD



13C-OCDD



Lock Mass F5



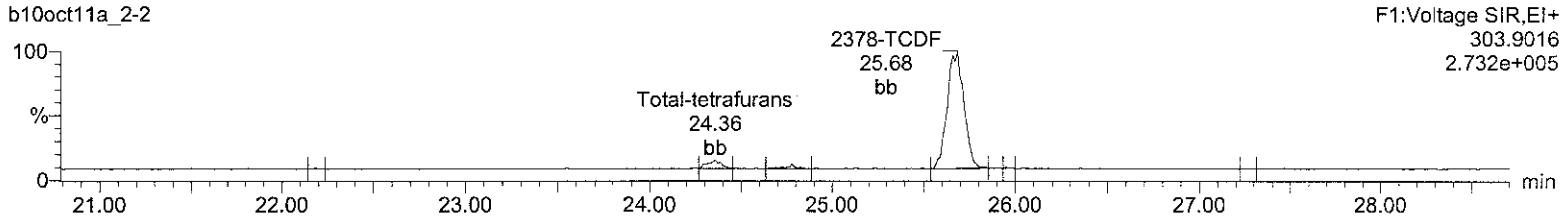
Quantify Sample Report **MassLynx 4.1**
Method 8290 Quantification Report

Dataset: C:\MassLynx\Default.pro\Sample Results\8290-b10oct11a_2.qld

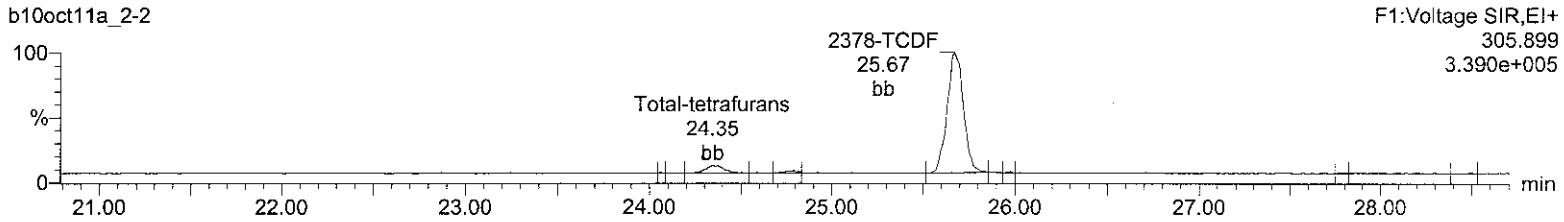
Last Altered: Tuesday, October 11, 2011 13:39:25 Eastern Standard Time
Printed: Tuesday, October 11, 2011 13:40:15 Eastern Standard Time

Name: b10oct11a_2-2, Date: 11-Oct-2011, Time: 01:21:29, ID: 12004351-1 LCSD, Description: 19684, Job: HMS8290_1L, Task: HRP763_1, User: MJC

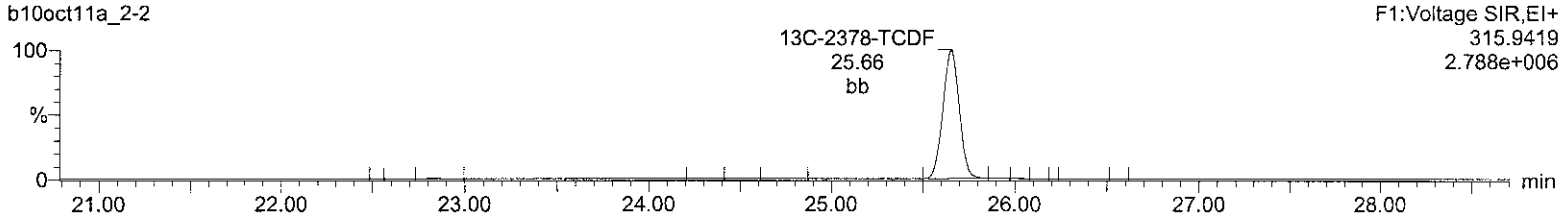
Total-tetrafurans



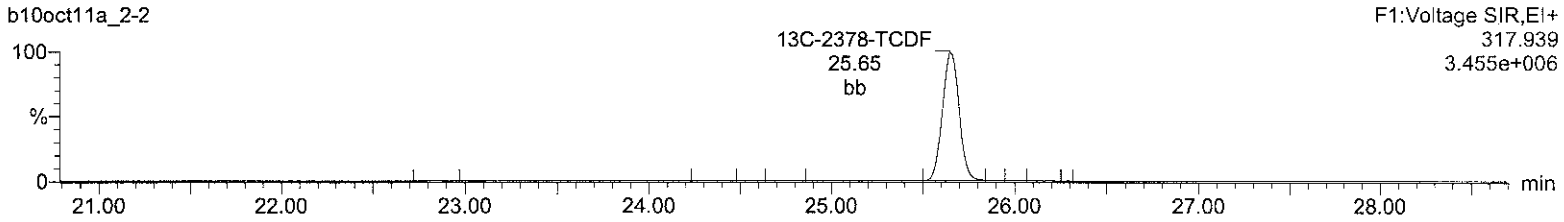
Total-tetrafurans



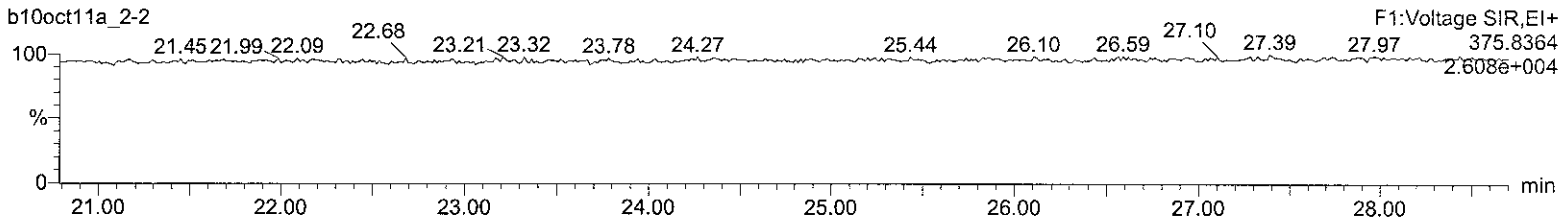
13C-2378-TCDF



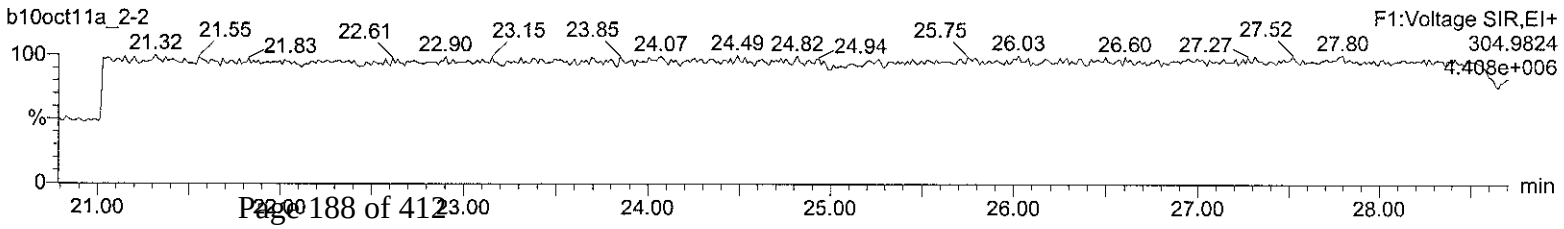
13C-2378-TCDF



HxDPE



Lock Mass F1



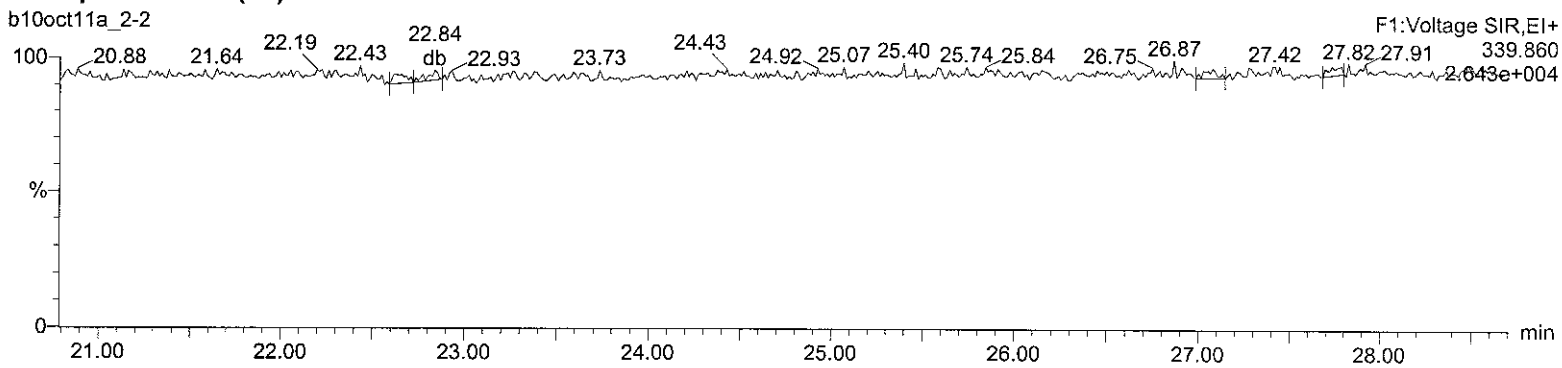
Quantify Sample Report **MassLynx 4.1**
Method 8290 Quantification Report

Dataset: C:\MassLynx\Default.pro\Sample Results\8290-b10oct11a_2.qld

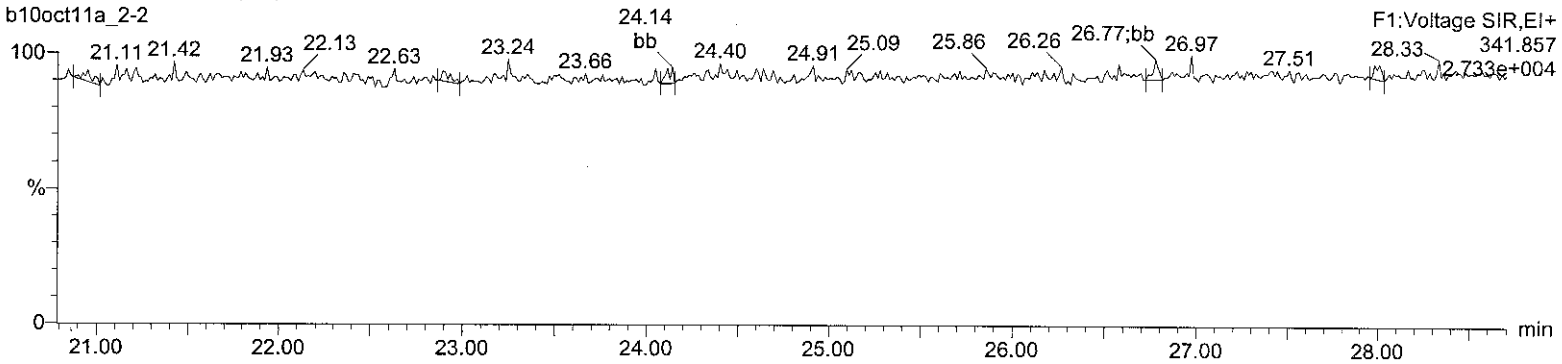
Last Altered: Tuesday, October 11, 2011 13:39:25 Eastern Standard Time
Printed: Tuesday, October 11, 2011 13:40:15 Eastern Standard Time

Name: b10oct11a_2-2, Date: 11-Oct-2011, Time: 01:21:29, ID: 12004351-1 LCSD, Description: 19684, Job: HMS8290_1L, Task: HRP763_1, User: MJC

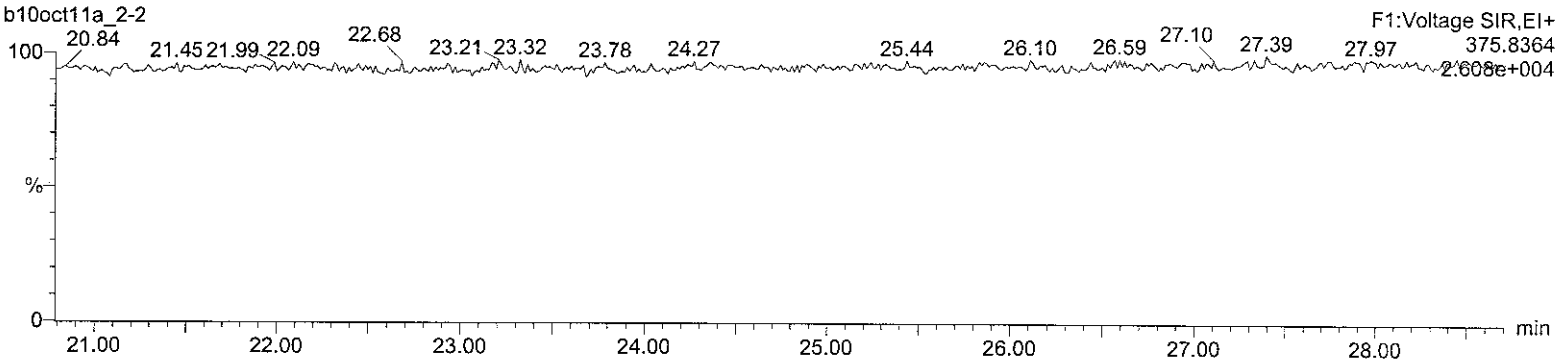
Total-pentafurans (F1)



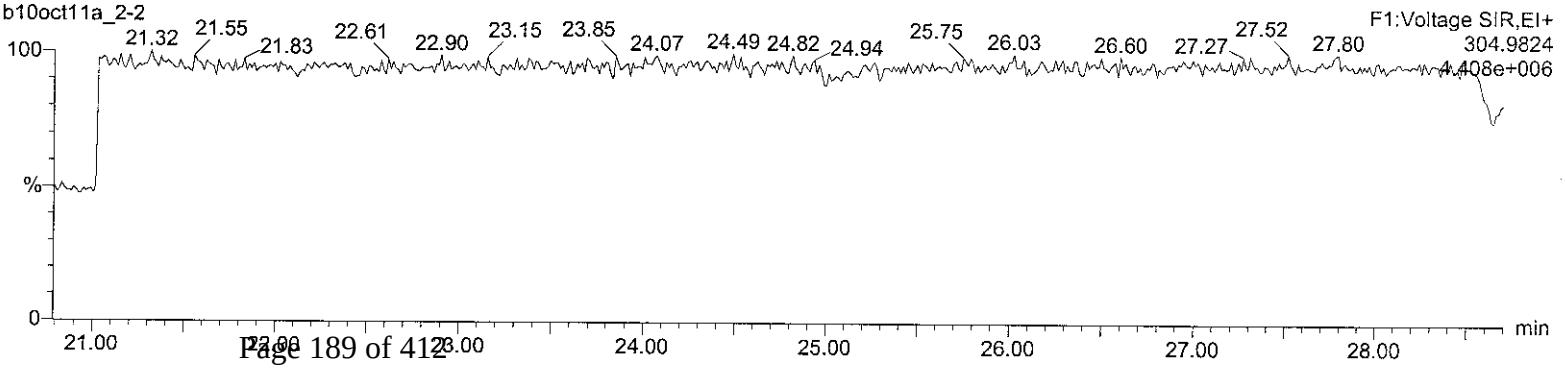
Total-pentafurans (F1)



HxDPE



Lock Mass F1



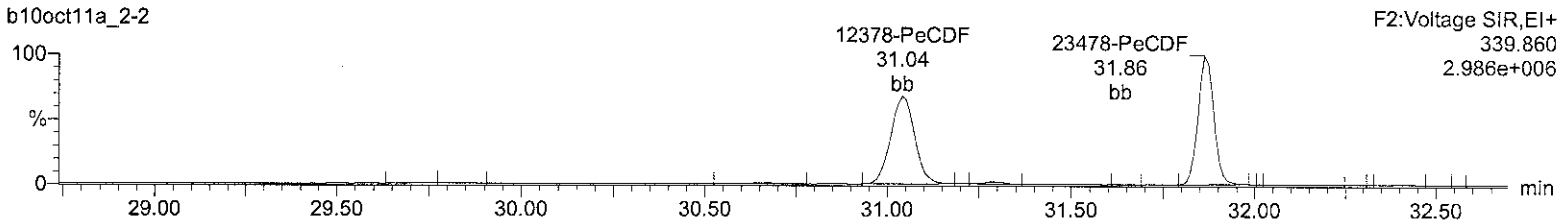
Quantify Sample Report **MassLynx 4.1**
Method 8290 Quantification Report

Dataset: C:\MassLynx\Default.pro\Sample Results\8290-b10oct11a_2.qld

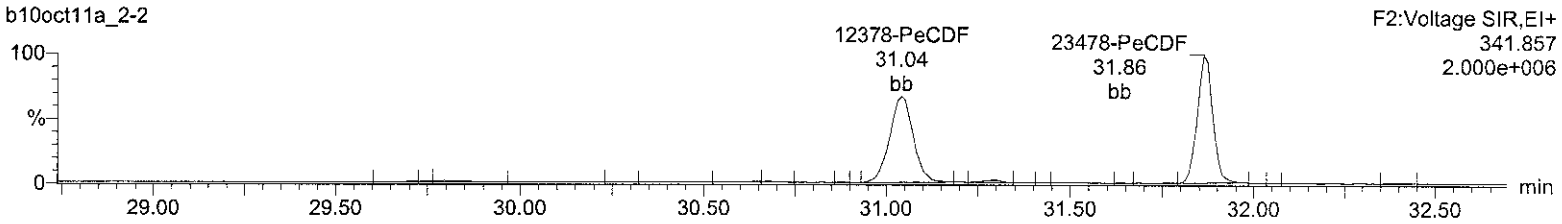
Last Altered: Tuesday, October 11, 2011 13:39:25 Eastern Standard Time
Printed: Tuesday, October 11, 2011 13:40:15 Eastern Standard Time

Name: b10oct11a_2-2, Date: 11-Oct-2011, Time: 01:21:29, ID: 12004351-1 LCSD, Description: 19684, Job: HMS8290_1L, Task: HRP763_1, User: MJC

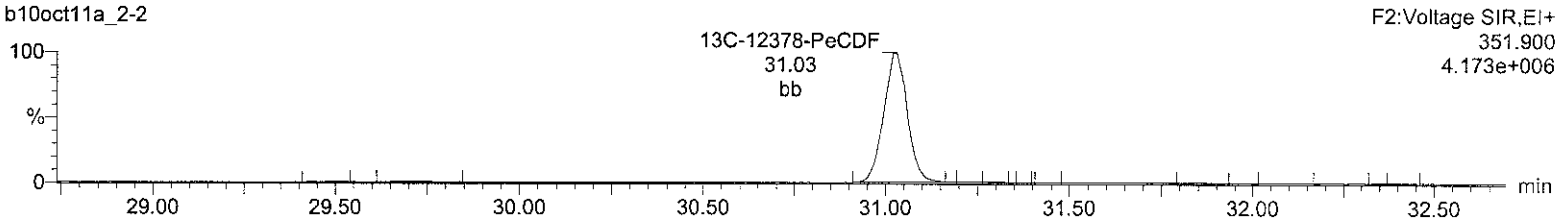
Total-pentafurans



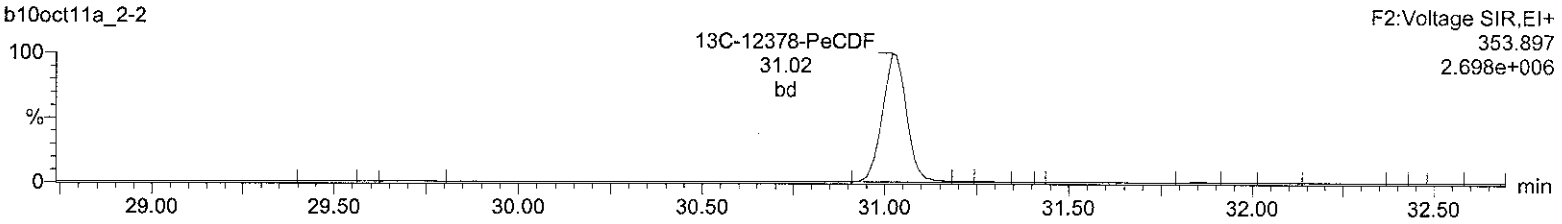
Total-pentafurans



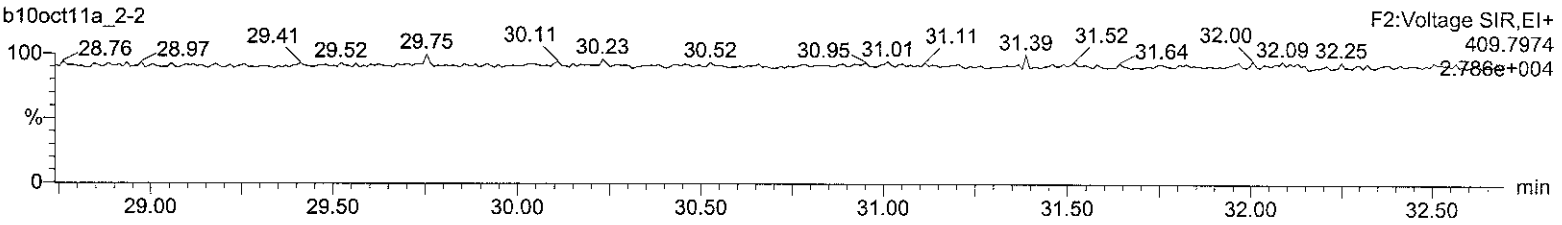
13C-12378-PeCDF



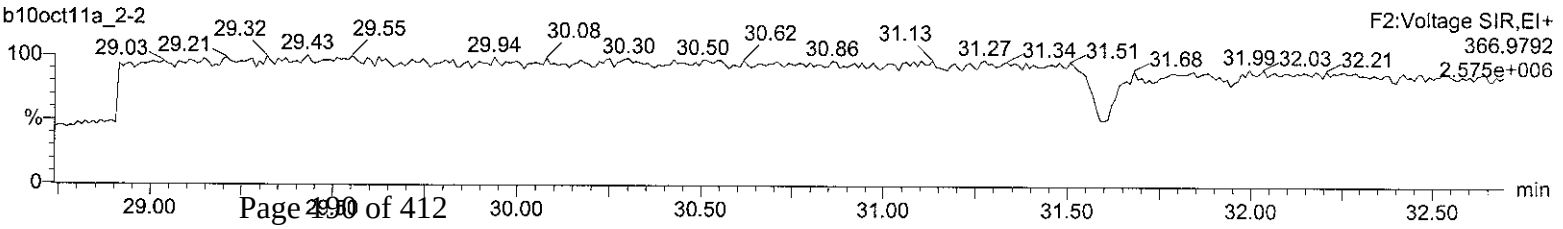
13C-12378-PeCDF



HpDPE



Lock Mass F2



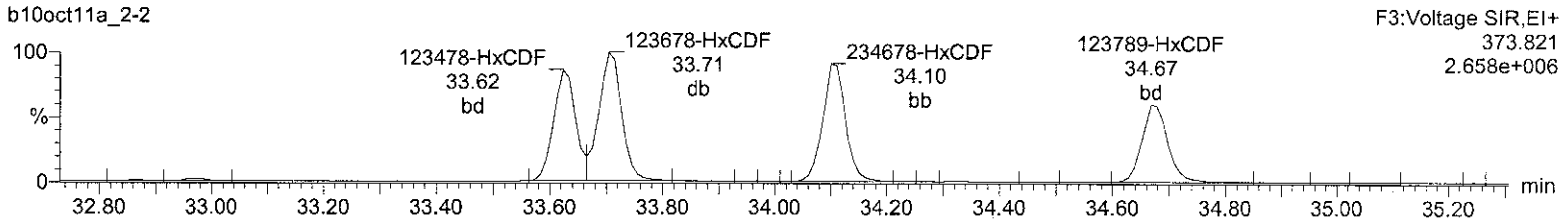
Quantify Sample Report **MassLynx 4.1**
Method 8290 Quantification Report

Dataset: C:\MassLynx\Default.pro\Sample Results\8290-b10oct11a_2.qld

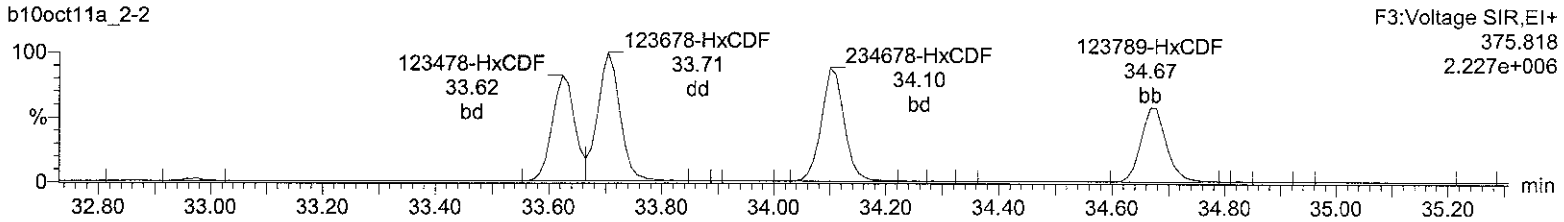
Last Altered: Tuesday, October 11, 2011 13:39:25 Eastern Standard Time
Printed: Tuesday, October 11, 2011 13:40:15 Eastern Standard Time

Name: b10oct11a_2-2, Date: 11-Oct-2011, Time: 01:21:29, ID: 12004351-1 LCSD, Description: 19684, Job: HMS8290_1L, Task: HRP763_1, User: MJC

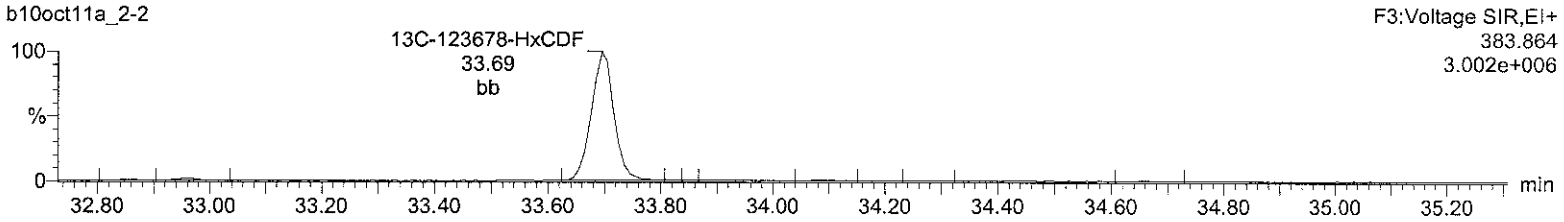
Total-hexafurans



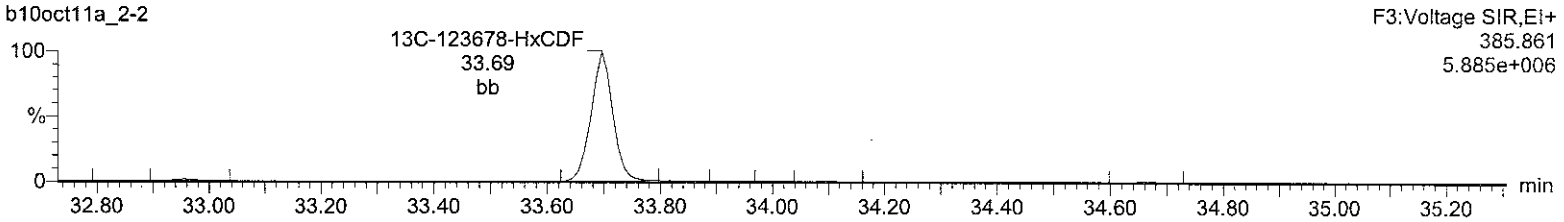
Total-hexafurans



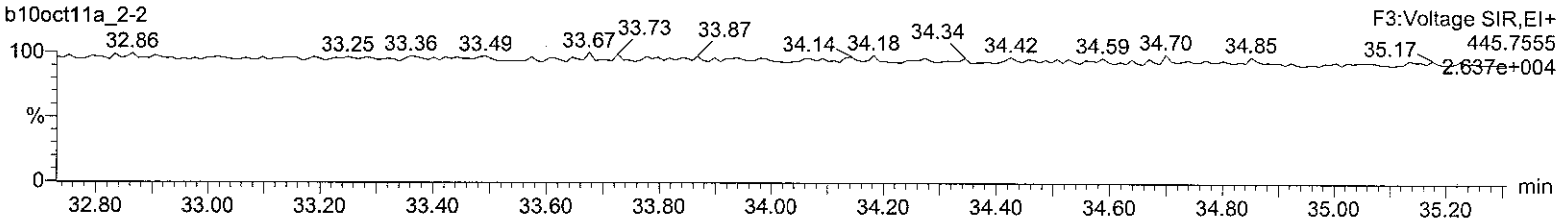
13C-123678-HxCDF



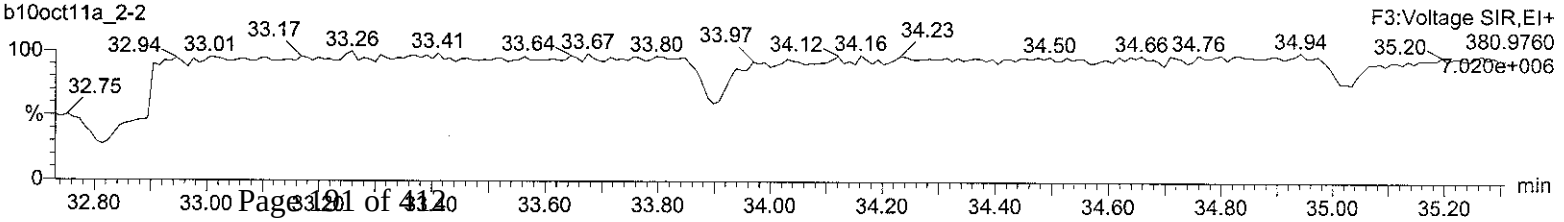
13C-123678-HxCDF



OcDPE



Lock Mass F3



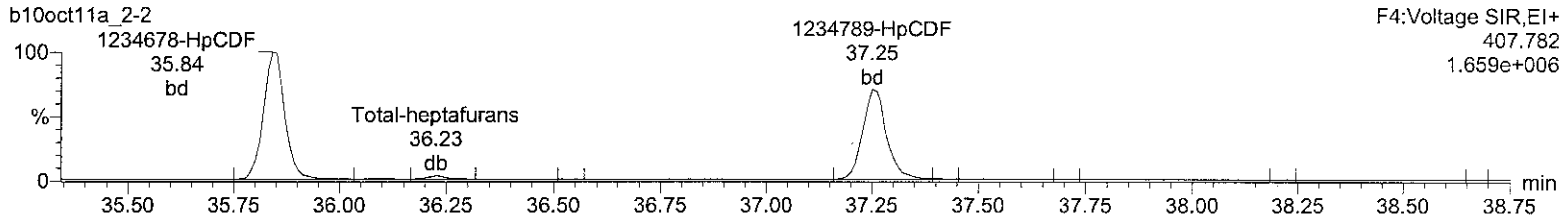
Quantify Sample Report **MassLynx 4.1**
Method 8290 Quantification Report

Dataset: C:\MassLynx\Default.pro\Sample Results\8290-b10oct11a_2.qld

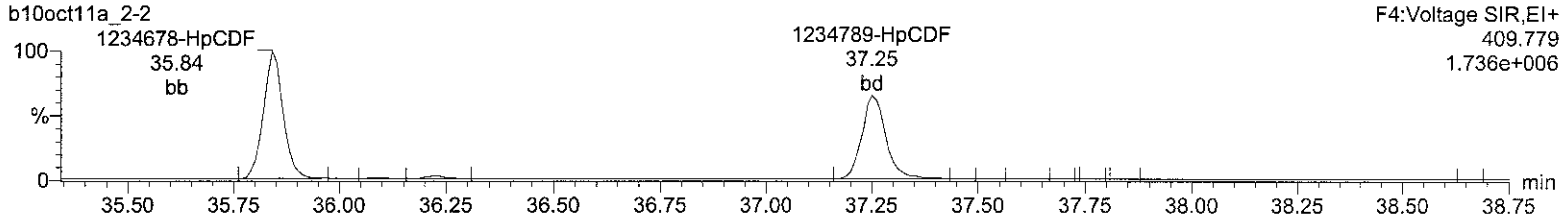
Last Altered: Tuesday, October 11, 2011 13:39:25 Eastern Standard Time
Printed: Tuesday, October 11, 2011 13:40:15 Eastern Standard Time

Name: b10oct11a_2-2, Date: 11-Oct-2011, Time: 01:21:29, ID: 12004351-1 LCSD, Description: 19684, Job: HMS8290_1L, Task: HRP763_1, User: MJC

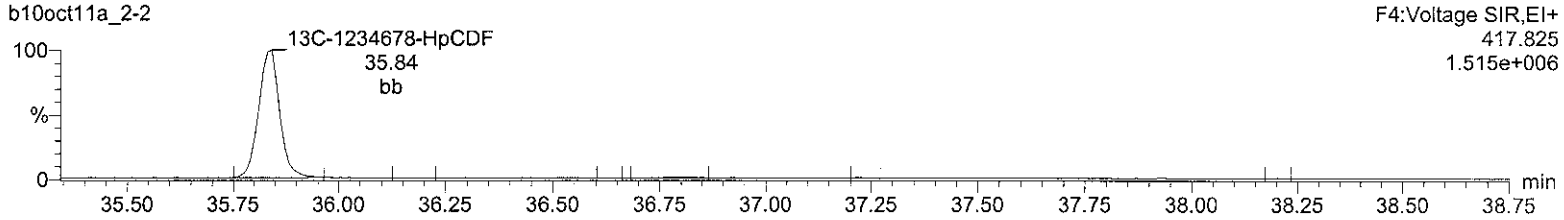
Total-heptafurans



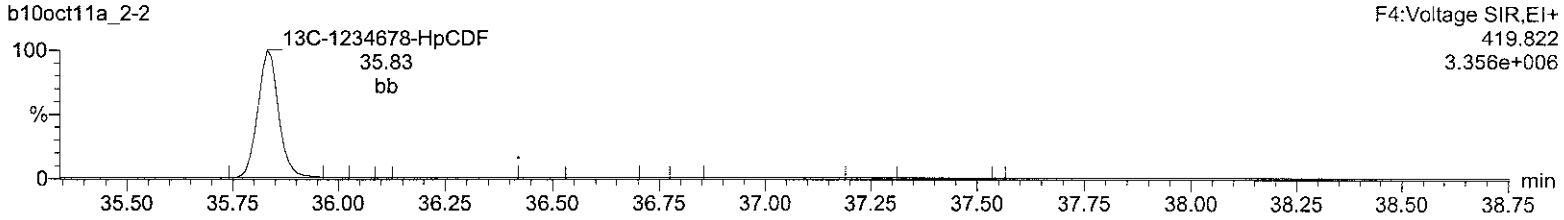
Total-heptafurans



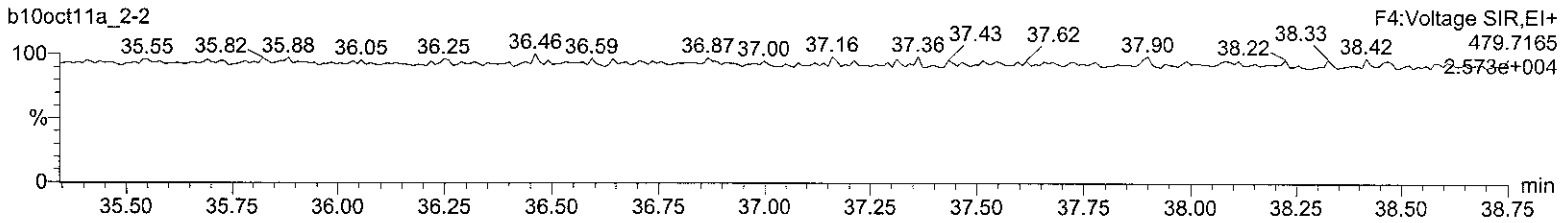
13C-1234678-HpCDF



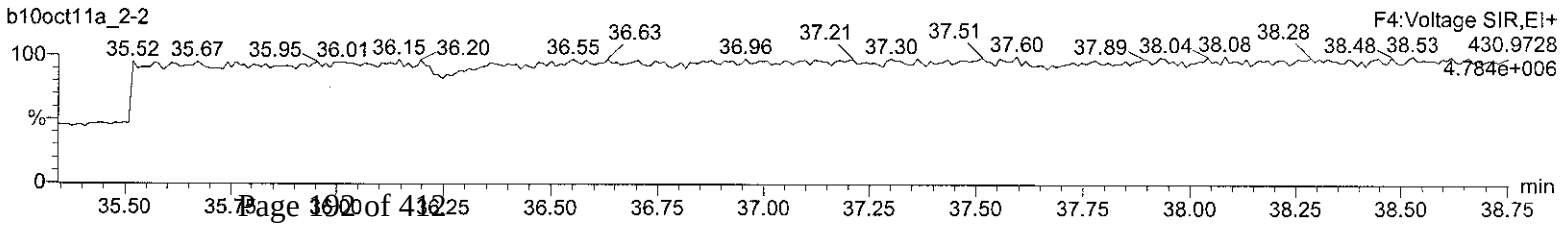
13C-1234678-HpCDF



NoDPE



Lock Mass F4



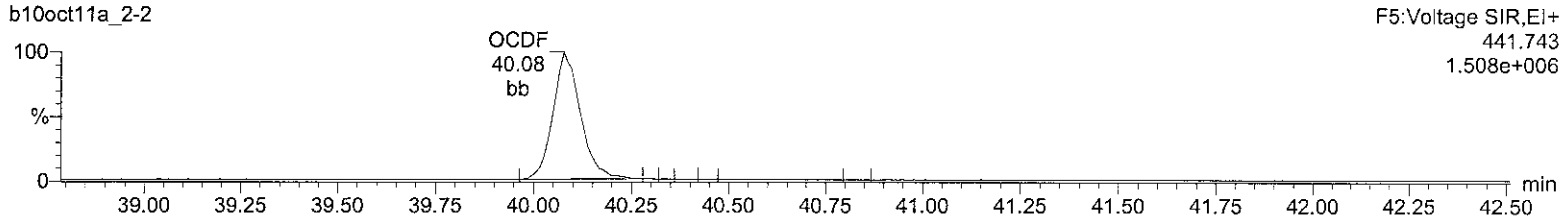
Quantify Sample Report **MassLynx 4.1**
Method 8290 Quantification Report

Dataset: C:\MassLynx\Default.pro\Sample Results\8290-b10oct11a_2.qld

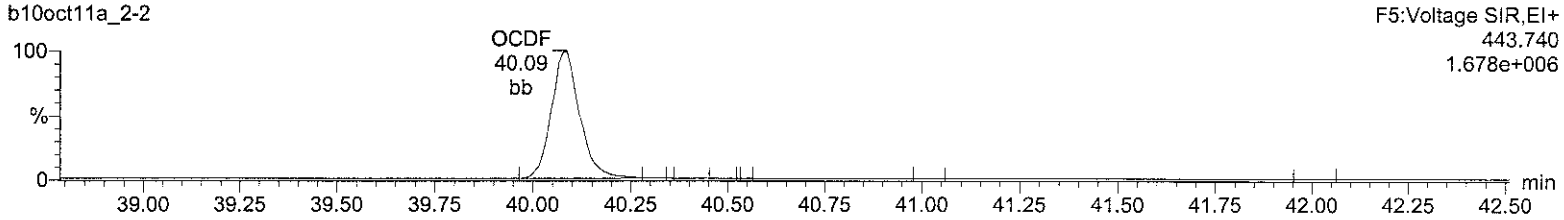
Last Altered: Tuesday, October 11, 2011 13:39:25 Eastern Standard Time
Printed: Tuesday, October 11, 2011 13:40:15 Eastern Standard Time

Name: b10oct11a_2-2, Date: 11-Oct-2011, Time: 01:21:29, ID: 12004351-1 LCSD, Description: 19684, Job: HMS8290_1L, Task: HRP763_1, User: MJC

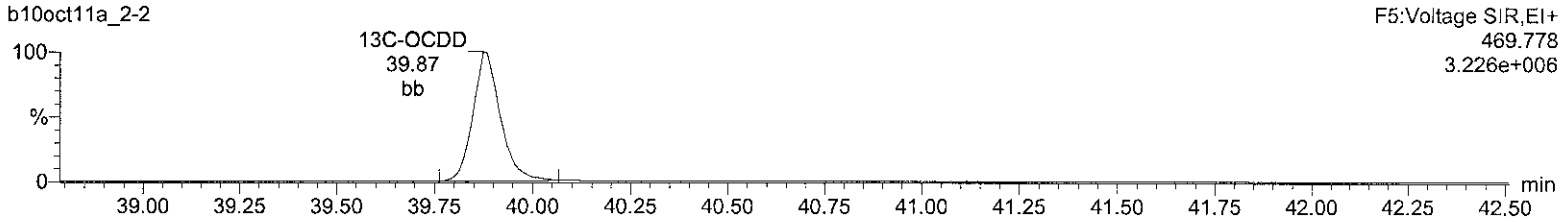
OCDF



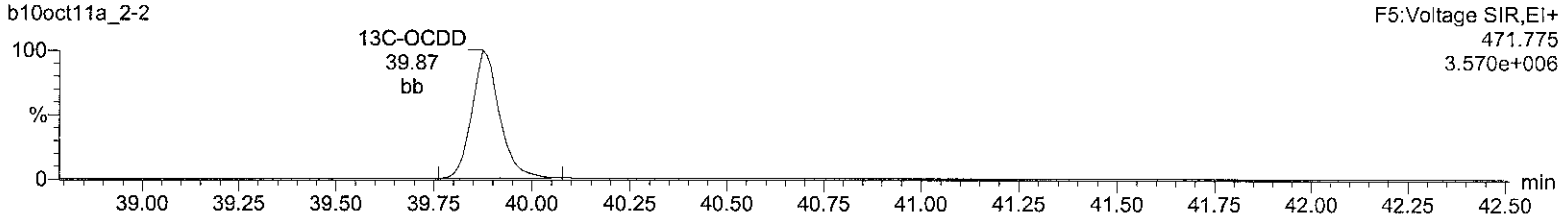
OCDF



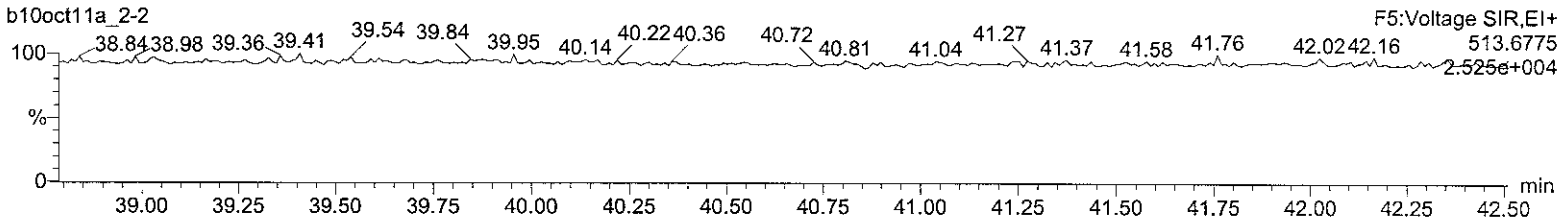
13C-OCDD



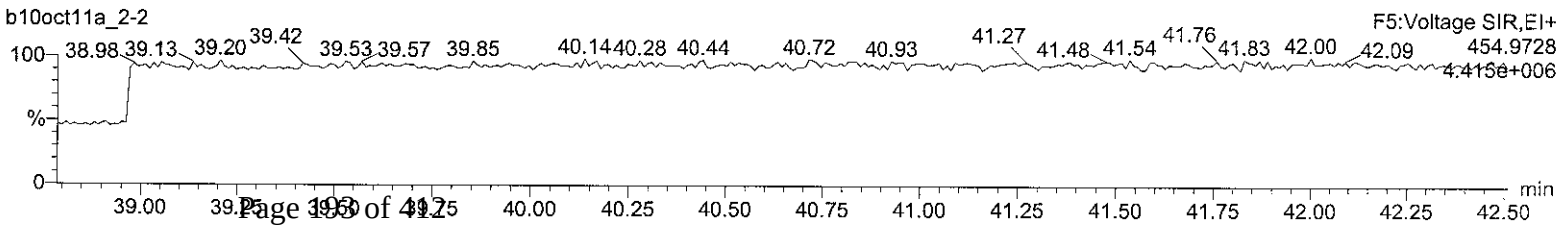
13C-OCDD



DeDPE



Lock Mass F5



Hi-Res Dioxins/Furans
Certificate of Analysis
Sample Summary

SDG Number:	**1109191**	**Client:**	**EMPI001**	**Project:**	**QC**
Lab Sample ID:	**12004343**	**Date Collected:**	**09/22/2011 10:45**	**Matrix:**	**SOLID**
Client Sample:	**QC for batch 19663**	**Date Received:**	**09/27/2011 11:45**	**%Moisture:**	**13**
Client ID:	**FLC-4-SSC-0006-092211(2818001MS**			**Prep Basis:**	**Dry Weight**
Batch ID:	**19680**	**Method:**	**SW846 8290A**		
Run Date:	**10/10/2011 17:03**	**Analyst:**	**MJC**	**Instrument:**	**HRP763**
Data File:	**b10oct11a-6**			**Dilution:**	**1**
Prep Batch:	**19663**	**Prep Method:**	**SW846 3540C**		
Prep Date:	**04-OCT-11**	**Aliquot:**	**12.85 g**		

CAS No.	Parmname	Qual	Result	EMPC	Units	EDL	PQL
1746-01-6	2,3,7,8-TCDD		18.3		pg/g	0.508	0.894
40321-76-4	1,2,3,7,8-PeCDD		92.6		pg/g	0.440	4.47
39227-28-6	1,2,3,4,7,8-HxCDD		136		pg/g	0.635	4.47
57653-85-7	1,2,3,6,7,8-HxCDD		116		pg/g	0.588	4.47
19408-74-3	1,2,3,7,8,9-HxCDD		143		pg/g	0.658	4.47
35822-46-9	1,2,3,4,6,7,8-HpCDD		1590		pg/g	1.90	4.47
3268-87-9	1,2,3,4,6,7,8,9-OCDD	E	10100		pg/g	2.04	8.94
51207-31-9	2,3,7,8-TCDF		16.7		pg/g	0.404	0.894
57117-41-6	1,2,3,7,8-PeCDF		88.4		pg/g	0.665	4.47
57117-31-4	2,3,4,7,8-PeCDF		92.4		pg/g	0.680	4.47
70648-26-9	1,2,3,4,7,8-HxCDF		127		pg/g	0.785	4.47
57117-44-9	1,2,3,6,7,8-HxCDF		95.0		pg/g	0.674	4.47
72918-21-9	1,2,3,7,8,9-HxCDF	Q	64.9		pg/g	0.901	4.47
60851-34-5	2,3,4,6,7,8-HxCDF		97.3		pg/g	0.746	4.47
67562-39-4	1,2,3,4,6,7,8-HpCDF		106		pg/g	0.726	4.47
55673-89-7	1,2,3,4,7,8,9-HpCDF		97.9		pg/g	0.996	4.47
39001-02-0	1,2,3,4,6,7,8,9-OCDF		194		pg/g	0.558	8.94

Surrogate/Tracer recovery	Qual	Result	Nominal	Units	Recovery%	Acceptable Limits
13C-2,3,7,8-TCDD		149	179	pg/g	83.2	(40%-135%)
13C-1,2,3,7,8-PeCDD		139	179	pg/g	77.5	(40%-135%)
13C-1,2,3,6,7,8-HxCDD		119	179	pg/g	66.6	(40%-135%)
13C-1,2,3,4,6,7,8-HpCDD		160	179	pg/g	89.6	(40%-135%)
13C-OCDD		321	358	pg/g	89.8	(40%-135%)
13C-2,3,7,8-TCDF		156	179	pg/g	87.0	(40%-135%)
13C-1,2,3,7,8-PeCDF		122	179	pg/g	68.0	(40%-135%)
13C-1,2,3,6,7,8-HxCDF		98.6	179	pg/g	55.1	(40%-135%)
13C-1,2,3,4,6,7,8-HpCDF		136	179	pg/g	75.8	(40%-135%)

Comments:

E **Value is estimated - Concentration of the target analyte exceeds the instrument calibration range**
K **Estimated Maximum Possible Concentration**
Q **Quantitative Interference**

Quantify Sample Summary Report **MassLynx 4.1**
Method 8290 Quantification Report

Q

Dataset: C:\MassLynx\Default.pro\Sample Results\8290-b10oct11a.qld

Last Altered: Tuesday, October 11, 2011 11:14:03 Eastern Standard Time
Printed: Tuesday, October 11, 2011 11:14:25 Eastern Standard Time

HMP
11Oct11

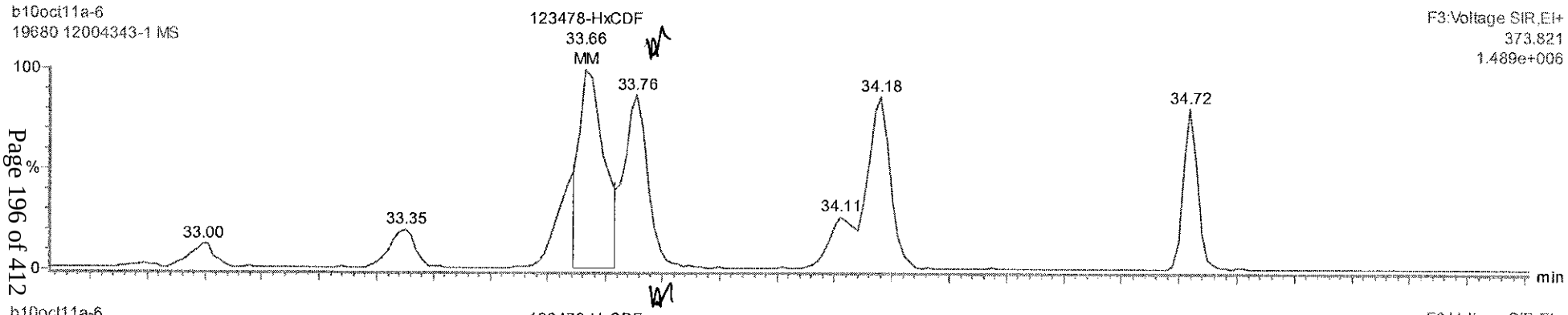
Method: C:\MassLynx\DEFAULT.PRO\MethDB\CFA_EPA8290_101011.mdb 10 Oct 2011 14:05:54
Calibration: C:\MassLynx\DEFAULT.PRO\CurveDB\8290-b01nov10b.cdb 02 Nov 2010 08:19:01

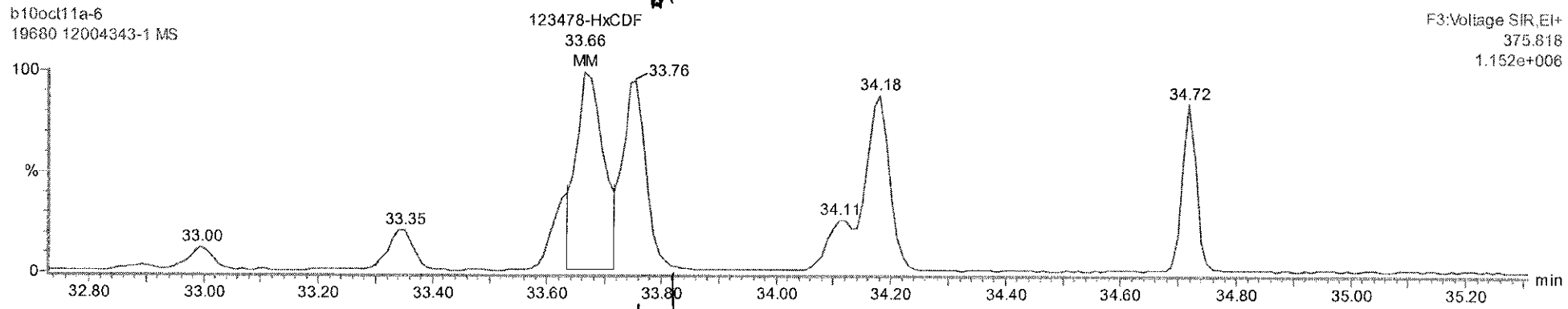
Name: b10oct11a-6, Date: 10-Oct-2011, Time: 17:03:06, ID: 12004343-1 MS, Description: 19680, Job: HMS8290_1S, Task: HRP763_1, User: MJC

	Name	Ion1Area	Ion2Area	Response	RT	RRT	RA	Fail?	pg/uL	EDL	Height1	Noise1	S/N1	Height2	Noise2	S/N2	M
1	2378-TCDD	1.28e4	1.66e4	2.94e4	26.62	1.001	0.77	NO	10.206	0.284	1.20e5	1438	83.1	1.44e5	1636	88.1	bb
2	12378-PeCDD	7.40e4	4.60e4	1.20e5	32.10	1.001	1.61	NO	51.757	0.246	1.38e6	1985	695.9	8.71e5	2394	364.0	bd
3	123478-HxCDD	6.58e4	5.20e4	1.18e5	34.29	0.998	1.27	NO	76.290	0.355	1.32e6	2633	500.8	9.96e5	2099	474.7	dd
4	123678-HxCDD	5.98e4	4.80e4	1.08e5	34.36	1.000	1.25	NO	64.648	0.329	1.37e6	2633	521.3	1.12e6	2099	534.1	dd
5	123789-HxCDD	6.51e4	5.43e4	1.19e5	34.55	1.006	1.20	NO	80.137	0.368	1.65e6	2633	625.2	1.31e6	2099	625.7	db
6	1234678-HpCDD	7.64e5	7.29e5	1.49e6	36.83	1.000	1.05	NO	890.448	1.06	1.26e7	6109	2057.1	1.21e7	5135	2359.9	bb
7	OCDD	3.68e6	4.15e6	7.83e6	39.97	1.001	0.89	NO	5634.910	1.14	4.38e7	3382	12945.4	4.97e7	3964	12544.1	bb
8	2378-TCDF	2.00e4	2.44e4	4.44e4	25.70	1.002	0.82	NO	9.328	0.226	1.93e5	1882	102.6	2.28e5	2129	107.1	bb
9	12378-PeCDF	9.90e4	6.32e4	1.62e5	31.06	1.001	1.57	NO	49.440	0.372	1.29e6	2354	547.2	7.91e5	4050	195.3	bb
10	23478-PeCDF	1.01e5	6.49e4	1.66e5	31.88	1.027	1.55	NO	51.646	0.380	1.83e6	2354	776.7	1.19e6	4050	294.6	bb
11	123478-HxCDF	7.28e4	6.20e4	1.35e5	33.66	0.998	1.17	NO	70.984	0.439	1.47e6	3227	455.3	1.13e6	3533	319.5	MM
12	123678-HxCDF	6.38e4	5.36e4	1.17e5	33.76	1.000	1.19	NO	53.125	0.377	1.28e6	3227	395.4	1.07e6	3533	304.1	db
13	234678-HxCDF	6.01e4	4.87e4	1.09e5	34.18	1.013	1.23	NO	54.423	0.417	1.27e6	3227	394.1	1.00e6	3533	283.6	db
14	123789-HxCDF	3.33e4	2.67e4	6.01e4	34.72	1.029	1.25	NO	36.299	0.504	1.19e6	3227	367.6	9.50e5	3533	268.9	bd
15	1234678-HpCDF	7.41e4	6.98e4	1.44e5	35.88	1.000	1.06	NO	59.162	0.406	1.24e6	2014	615.9	1.15e6	4326	266.6	bb
16	1234789-HpCDF	5.00e4	4.70e4	9.70e4	37.28	1.039	1.06	NO	54.714	0.557	7.80e5	2014	387.1	7.32e5	4326	169.1	bb
17	OCDF	8.80e4	9.85e4	1.87e5	40.14	1.005	0.89	NO	108.430	0.312	9.86e5	1577	625.2	1.12e6	916	1223.7	dd
18	13C-2378-TCDD	1.25e5	1.59e5	2.84e5	26.58	1.027	0.78	NO	83.183	0.276	1.18e6	2376	494.8	1.51e6	1086	1395.1	bb
19	13C-12378-PeCDD	1.38e5	8.68e4	2.25e5	32.08	1.240	1.59	NO	77.473	0.229	2.65e6	1395	1896.5	1.69e6	1044	1616.3	bb
20	13C-123678-HxCDD	9.61e4	7.60e4	1.72e5	34.35	0.995	1.26	NO	66.614	0.114	2.07e6	1555	1332.5	1.63e6	1421	1145.9	dd
21	13C-1234678-HpCDD	8.66e4	8.02e4	1.67e5	36.81	1.066	1.08	NO	89.637	0.163	1.36e6	1532	890.7	1.35e6	1527	881.7	bb
22	13C-OCDD	1.33e5	1.46e5	2.79e5	39.94	1.157	0.91	NO	179.681	0.139	1.54e6	1218	1263.6	1.73e6	951	1819.1	bd
23	13C-2378-TCDF	2.14e5	2.70e5	4.84e5	25.66	0.992	0.79	NO	87.015	0.194	1.99e6	1911	1043.5	2.47e6	2047	1207.5	bb
24	13C-12378-PeCDF	2.13e5	1.39e5	3.51e5	31.04	1.200	1.54	NO	67.954	0.283	2.79e6	2424	1152.3	1.82e6	2930	620.4	bb
25	13C-123678-HxCDF	7.21e4	1.37e5	2.09e5	33.75	0.977	0.53	NO	55.146	0.106	1.46e6	1990	734.6	2.82e6	2049	1374.5	MM
26	13C-1234678-HpCDF	5.82e4	1.32e5	1.91e5	35.87	1.039	0.44	NO	75.845	0.140	9.34e5	1876	498.1	2.19e6	1663	1315.5	bb
27	13C-1234-TCDD	1.36e5	1.69e5	3.05e5	25.87	0.000	0.81	NO	100.000	0.309	1.25e6	2376	526.1	1.58e6	1086	1456.2	bb
28	13C-123789-HxCDD	1.29e5	1.03e5	2.32e5	34.54	0.000	1.25	NO	100.000	0.127	3.25e6	1555	2092.1	2.58e6	1421	1815.4	MM
29	37Cl-2378-TCDD (SS)	1.21e2		1.21e2	26.62	1.001			0.040	0.0765	2.67e3	862	3.1				db
30	13C-23478-PeCDF (SS)							NO		0.311		2424			2930		

Q

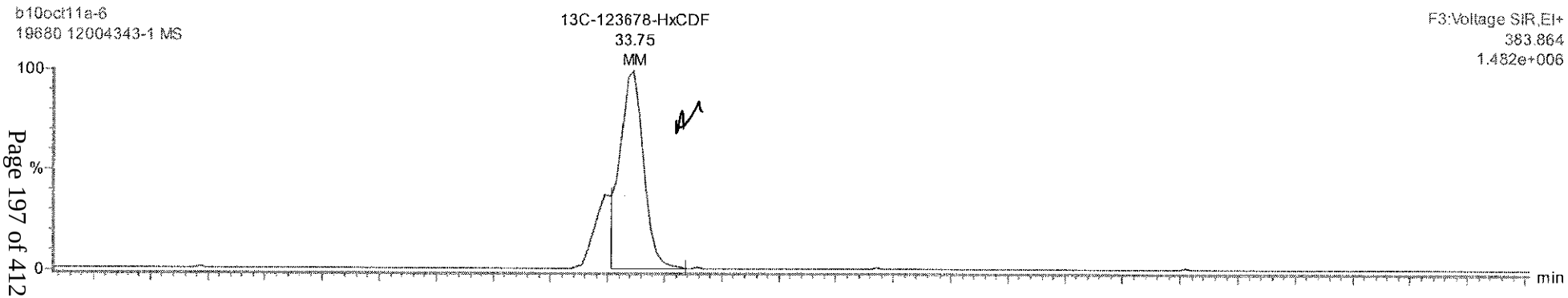
MANUAL INTEGRATION

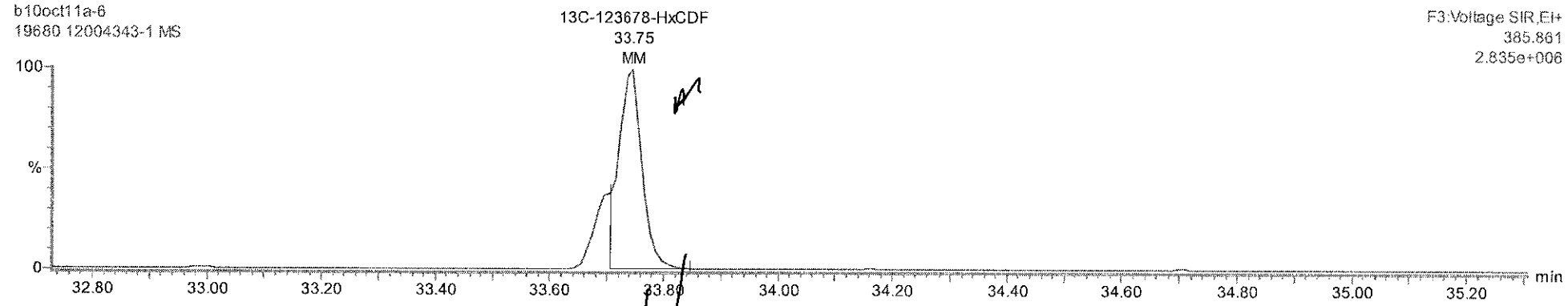




IMP 11Oct11

MANUAL INTEGRATION



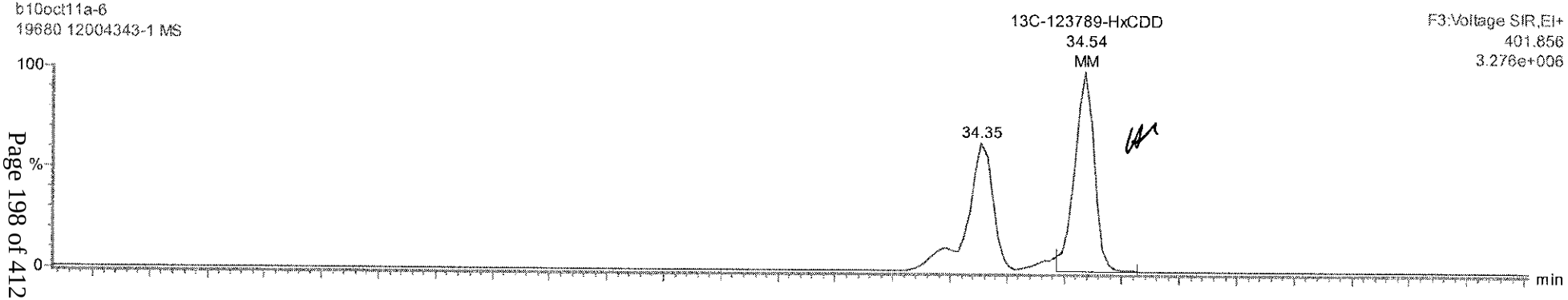


7/10/11

HMP 11Oct11

MANUAL INTEGRATION

b10oct11a-6
19680 12004343-1 MS



b10oct11a-6
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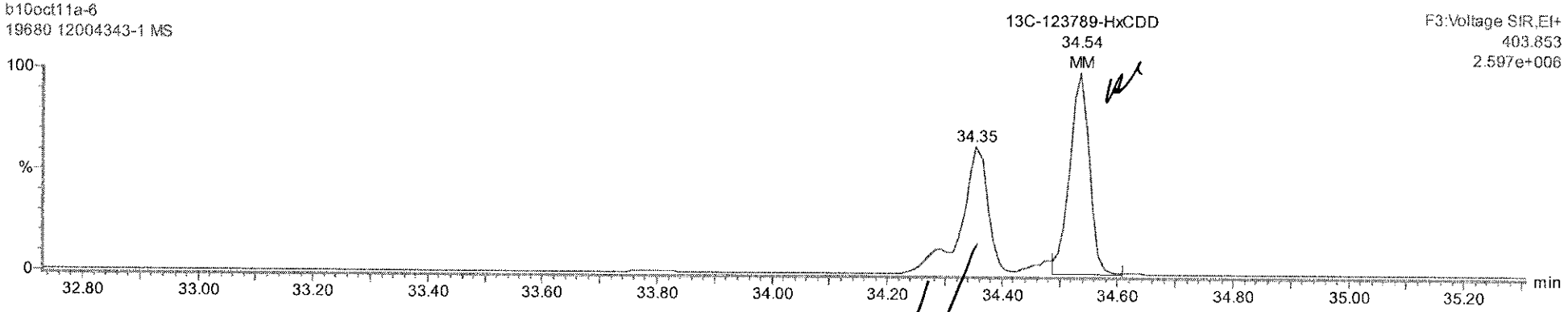


Y 10/11/11

HMP 11Oct11

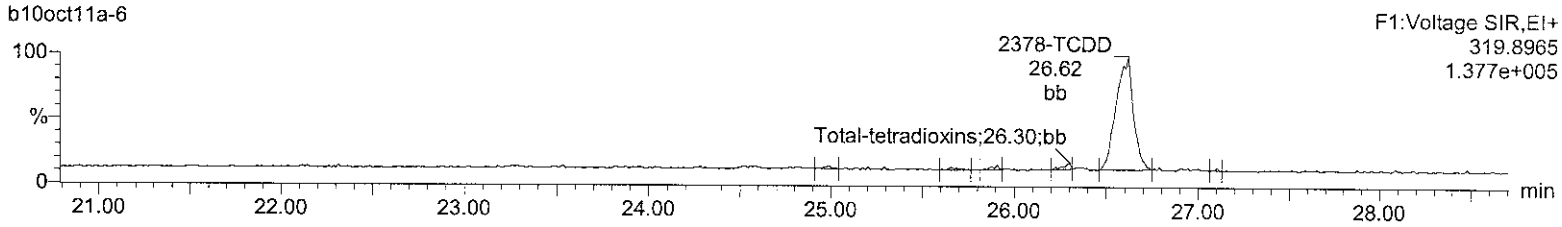
Quantify Sample Report **MassLynx 4.1**
Method 8290 Quantification Report

Dataset: C:\MassLynx\Default.pro\Sample Results\8290-b10oct11a.qld

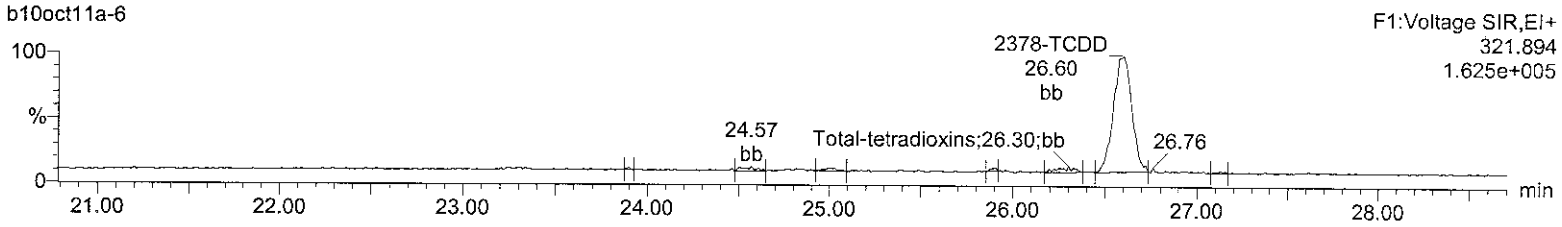
Last Altered: Tuesday, October 11, 2011 08:03:54 Eastern Standard Time
Printed: Tuesday, October 11, 2011 08:04:29 Eastern Standard Time

Name: b10oct11a-6, Date: 10-Oct-2011, Time: 17:03:06, ID: 12004343-1 MS, Description: 19680, Job: HMS8290_1S, Task: HRP763_1, User: MJC

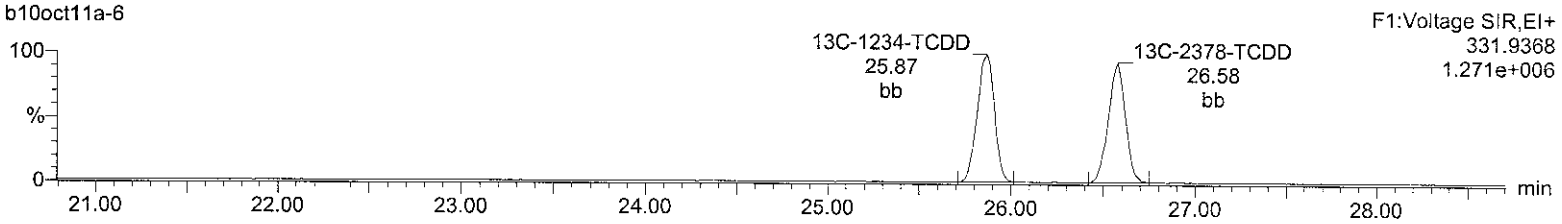
Total-tetradioxins



Total-tetradioxins



13C-2378-TCDD



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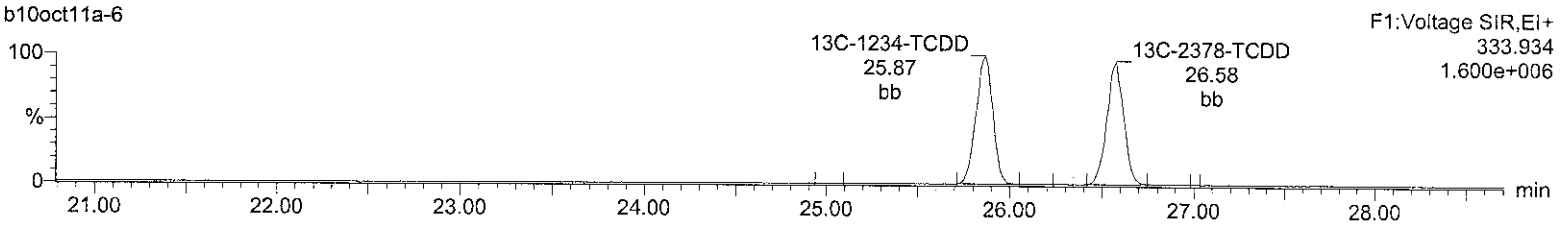
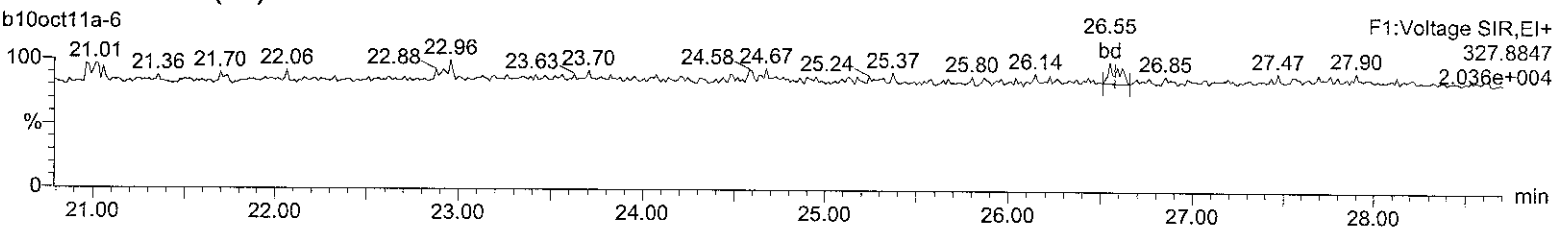
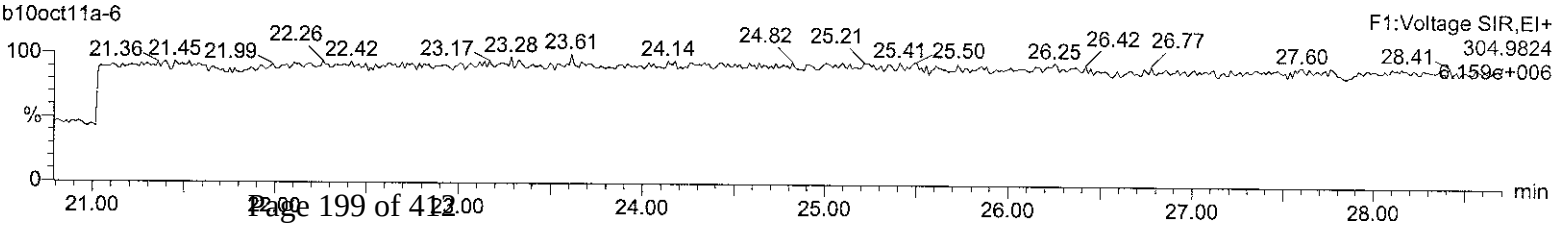


37Cl-2378-TCDD (SS)



Lock Mass F1



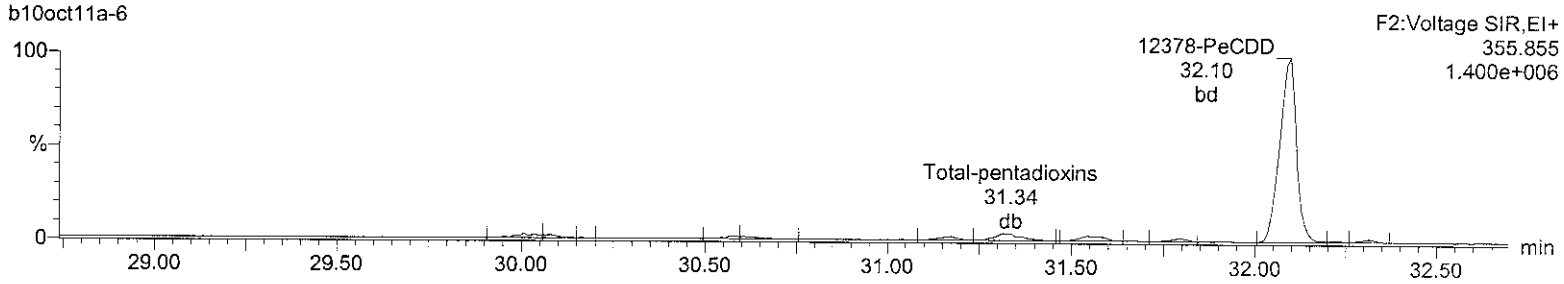
Quantify Sample Report **MassLynx 4.1**
Method 8290 Quantification Report

Dataset: C:\MassLynx\Default.pro\Sample Results\8290-b10oct11a.qld

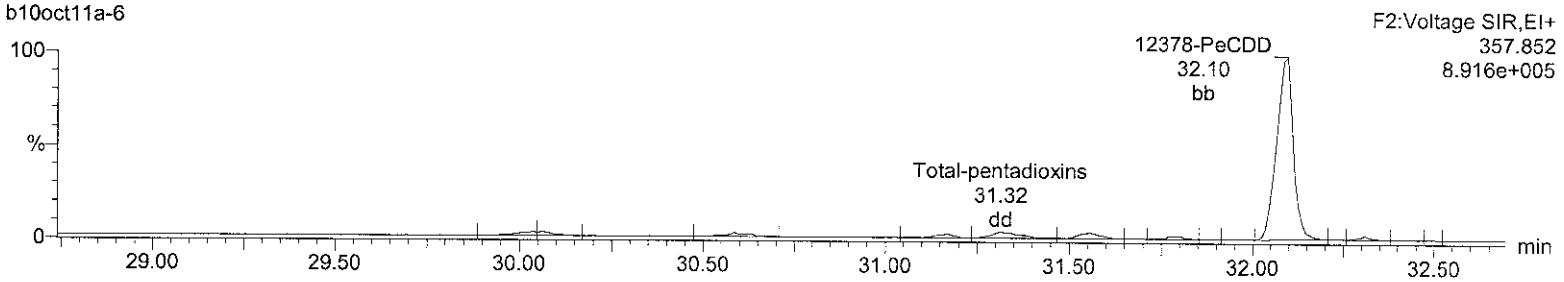
Last Altered: Tuesday, October 11, 2011 08:03:54 Eastern Standard Time
Printed: Tuesday, October 11, 2011 08:04:29 Eastern Standard Time

Name: b10oct11a-6, Date: 10-Oct-2011, Time: 17:03:06, ID: 12004343-1 MS, Description: 19680, Job: HMS8290_1S, Task: HRP763_1, User: MJC

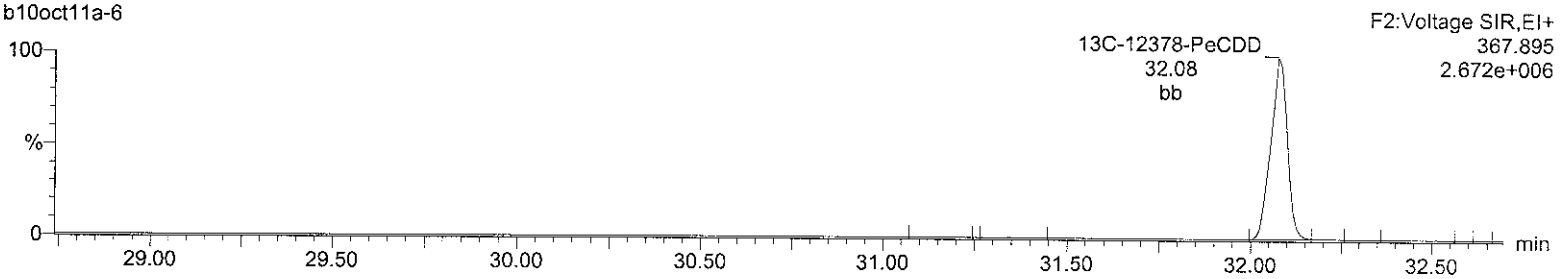
Total-pentadioxins
b10oct11a-6



Total-pentadioxins
b10oct11a-6



13C-12378-PeCDD
b10oct11a-6



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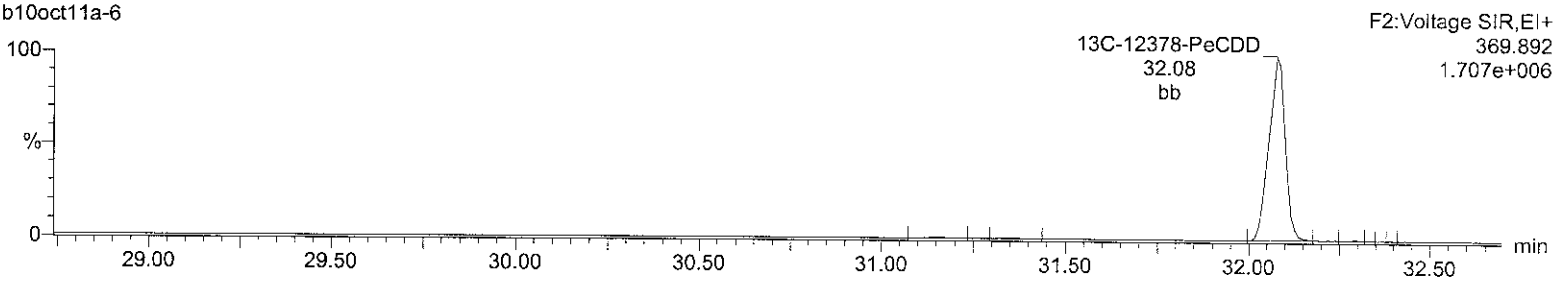
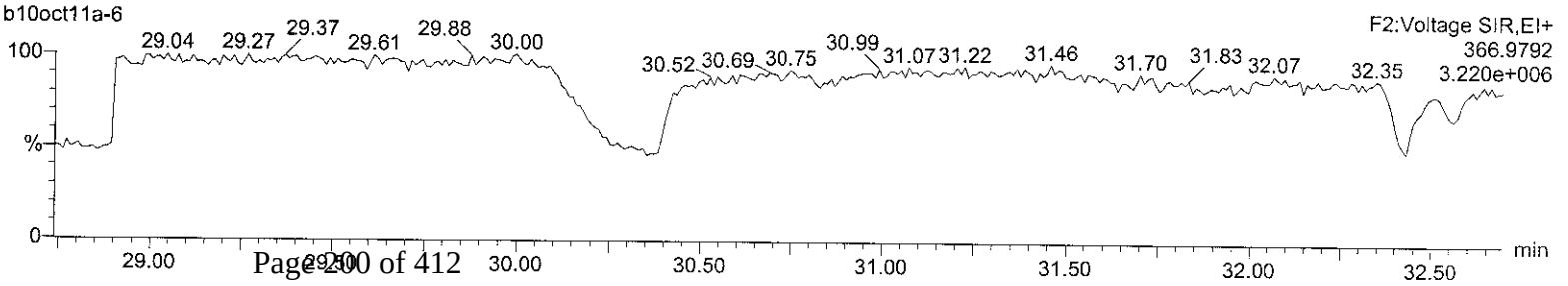
b10oct11a-6



Lock Mass F2
b10oct11a-6



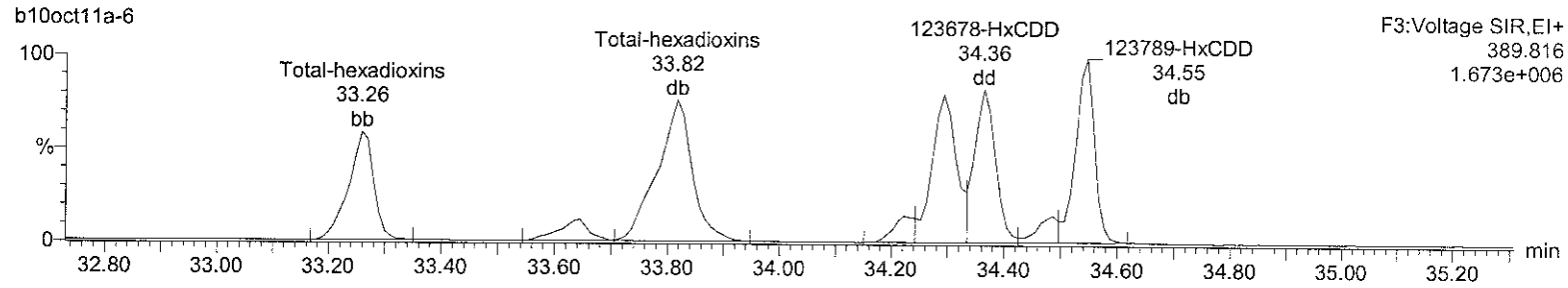
Quantify Sample Report **MassLynx 4.1**
Method 8290 Quantification Report

Dataset: C:\MassLynx\Default.pro\Sample Results\8290-b10oct11a.qld

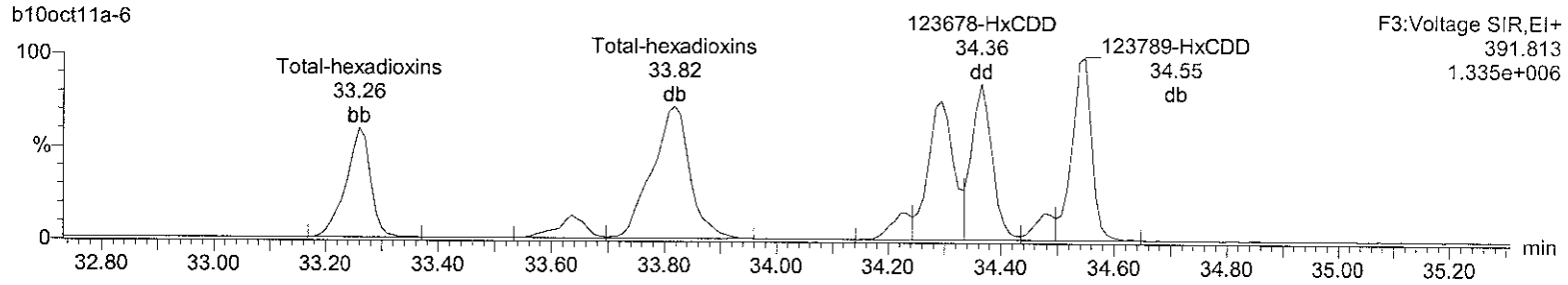
Last Altered: Tuesday, October 11, 2011 08:03:54 Eastern Standard Time
Printed: Tuesday, October 11, 2011 08:04:29 Eastern Standard Time

Name: b10oct11a-6, Date: 10-Oct-2011, Time: 17:03:06, ID: 12004343-1 MS, Description: 19680, Job: HMS8290_1S, Task: HRP763_1, User: MJC

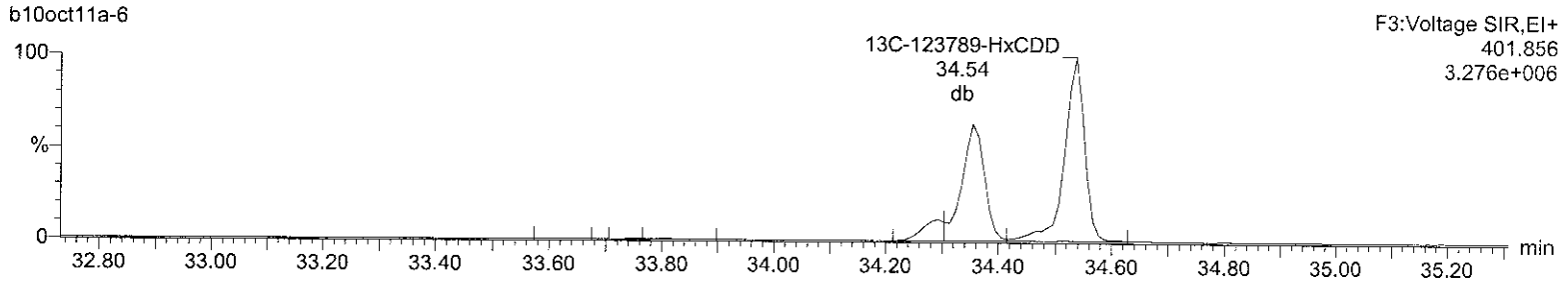
Total-hexadioxins



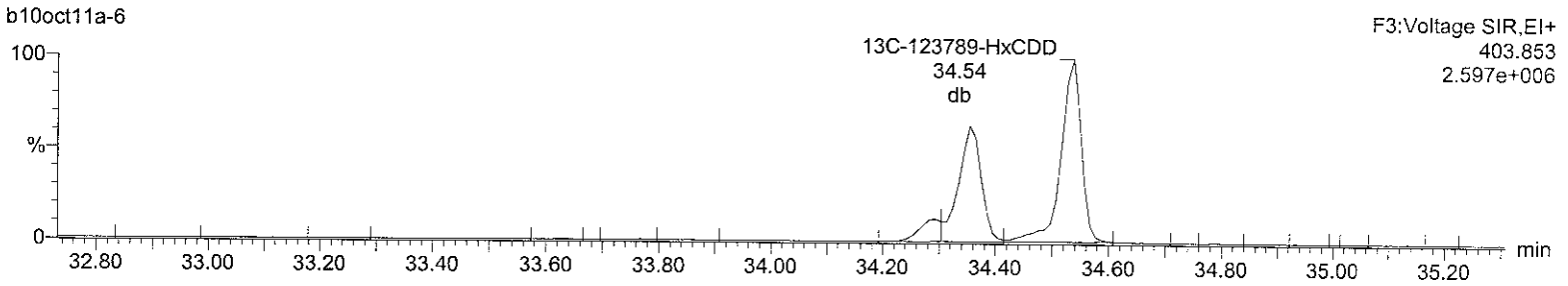
Total-hexadioxins



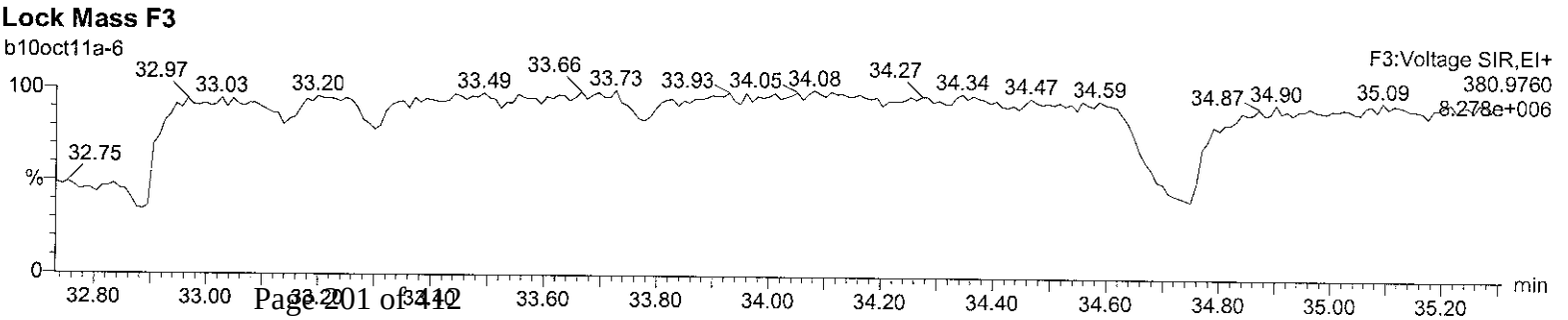
13C-123678-HxCDD



13C-123678-HxCDD



Lock Mass F3



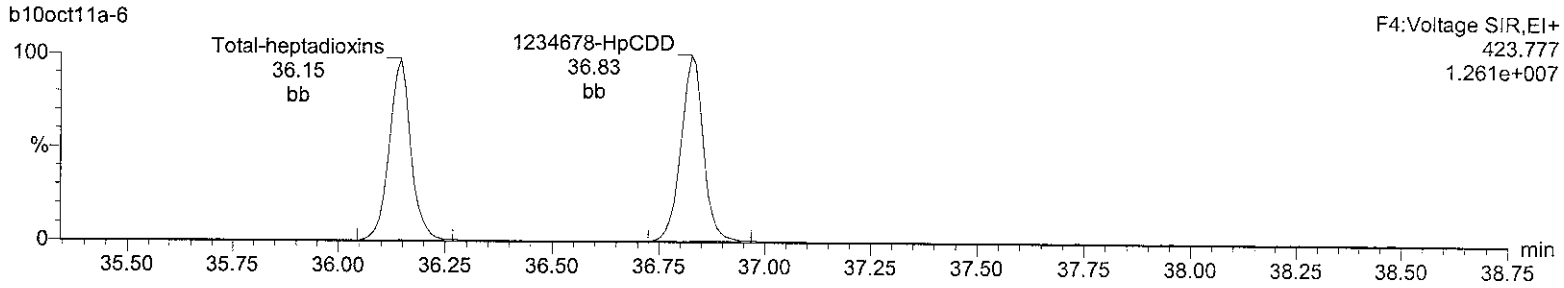
Quantify Sample Report **MassLynx 4.1**
Method 8290 Quantification Report

Dataset: C:\MassLynx\Default.pro\Sample Results\8290-b10oct11a.qld

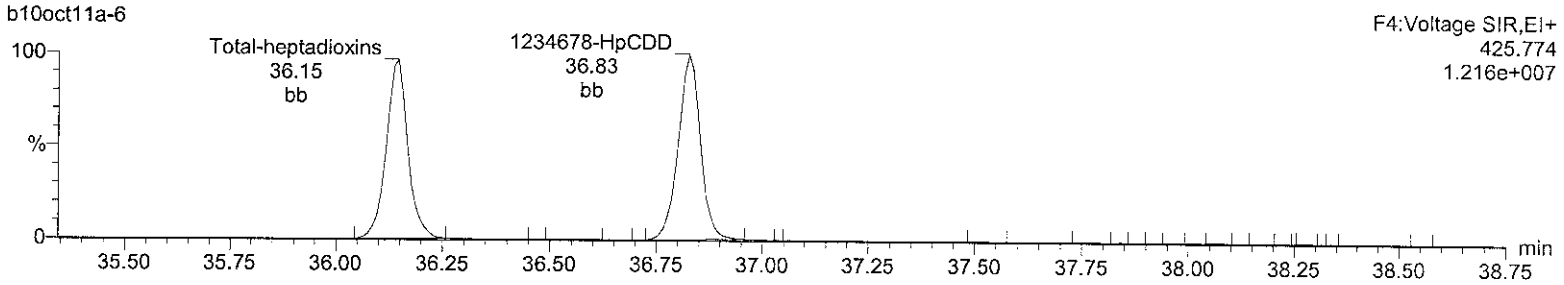
Last Altered: Tuesday, October 11, 2011 08:03:54 Eastern Standard Time
Printed: Tuesday, October 11, 2011 08:04:29 Eastern Standard Time

Name: b10oct11a-6, Date: 10-Oct-2011, Time: 17:03:06, ID: 12004343-1 MS, Description: 19680, Job: HMS8290_1S, Task: HRP763_1, User: MJC

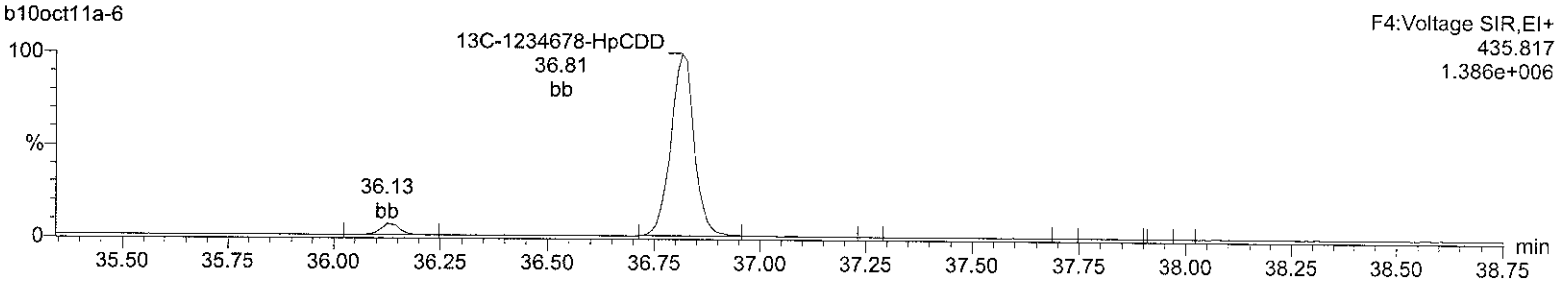
Total-heptadioxins



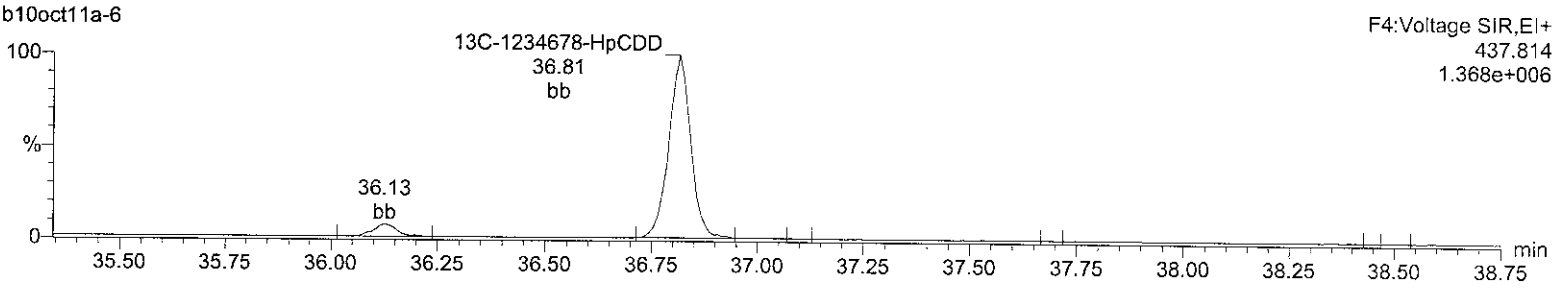
Total-heptadioxins



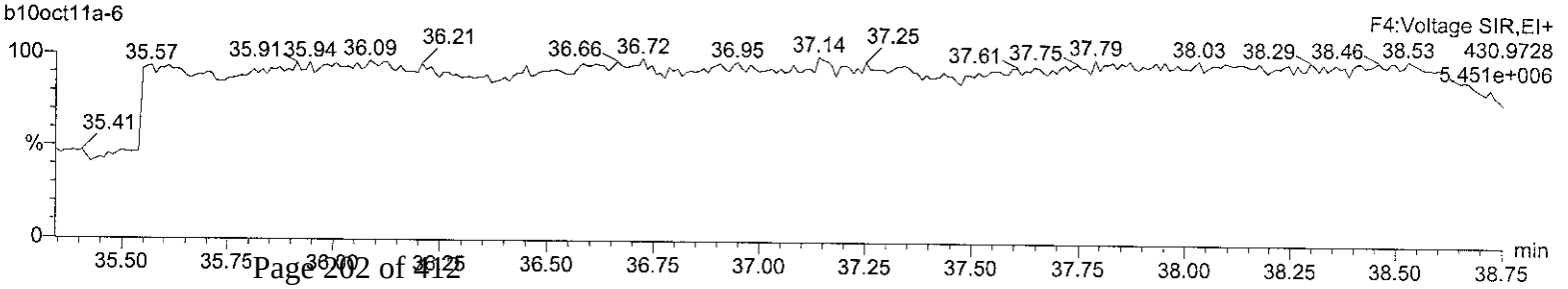
13C-1234678-HpCDD



13C-1234678-HpCDD



Lock Mass F4



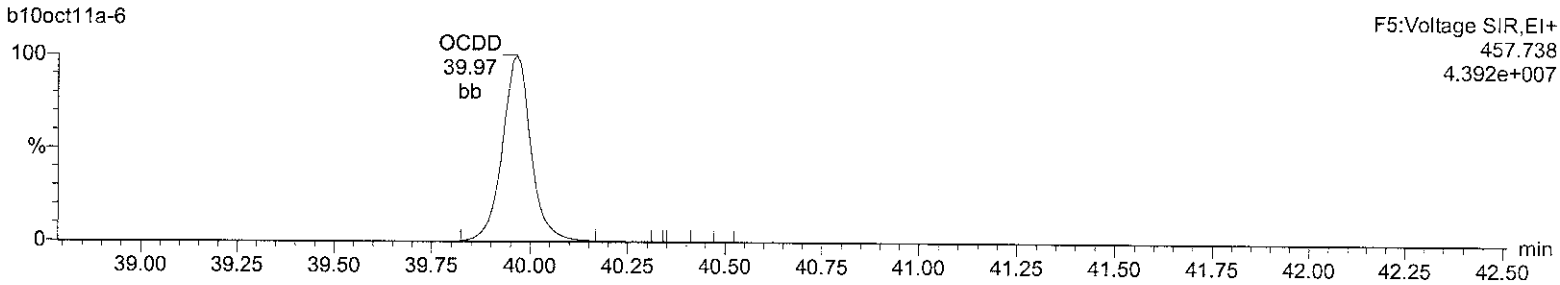
Quantify Sample Report **MassLynx 4.1**
Method 8290 Quantification Report

Dataset: C:\MassLynx\Default.pro\Sample Results\8290-b10oct11a.qld

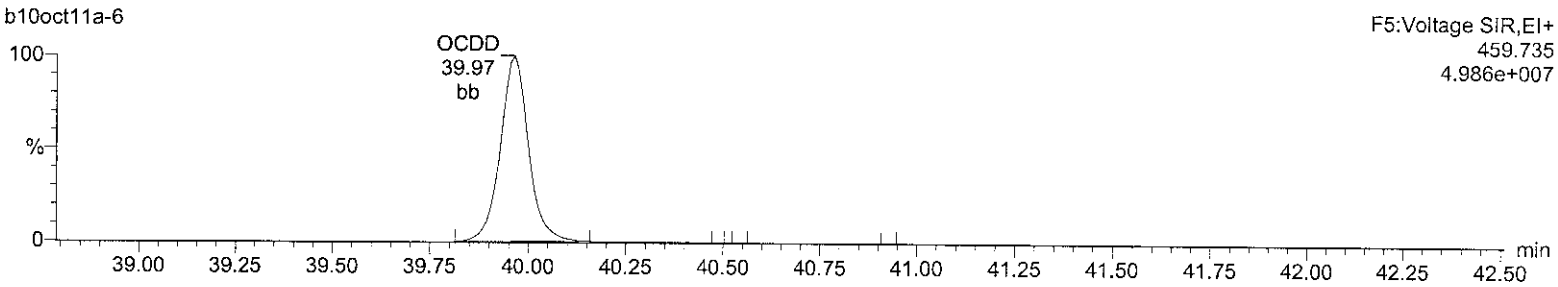
Last Altered: Tuesday, October 11, 2011 08:03:54 Eastern Standard Time
Printed: Tuesday, October 11, 2011 08:04:29 Eastern Standard Time

Name: b10oct11a-6, Date: 10-Oct-2011, Time: 17:03:06, ID: 12004343-1 MS, Description: 19680, Job: HMS8290_1S, Task: HRP763_1, User: MJC

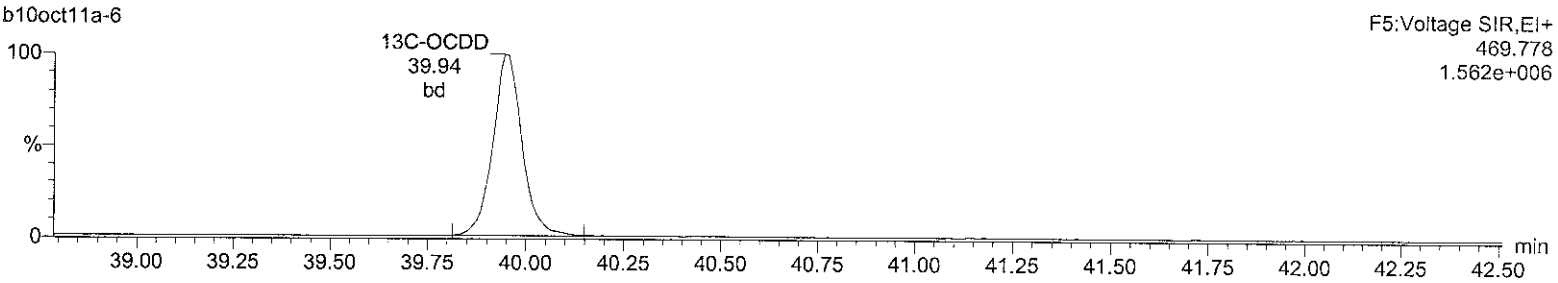
OCDD



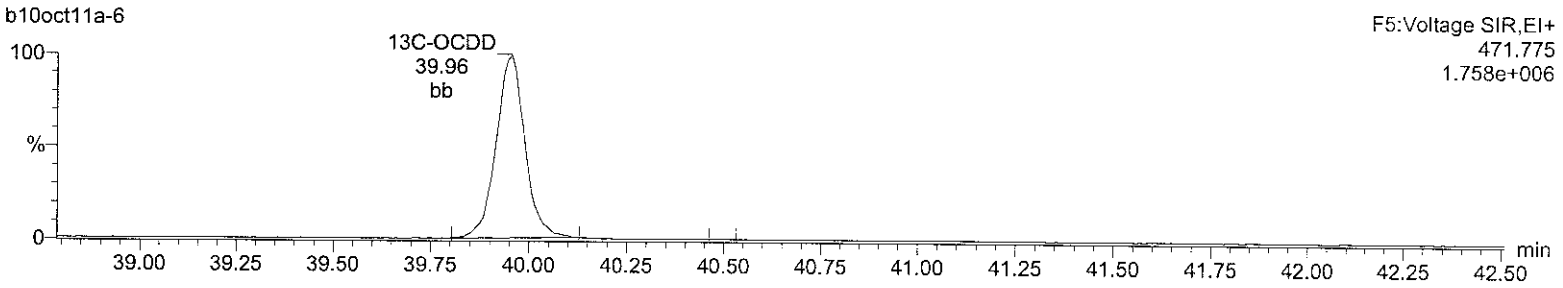
OCDD



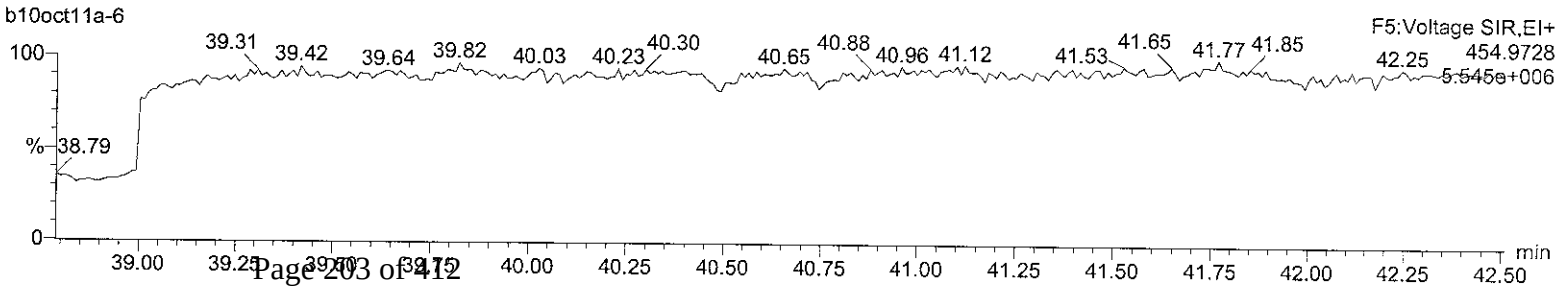
13C-OCDD



13C-OCDD



Lock Mass F5



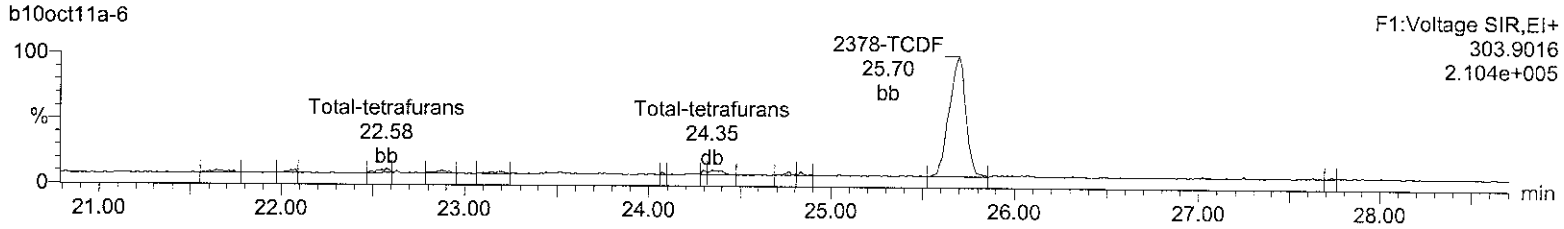
Quantify Sample Report **MassLynx 4.1**
Method 8290 Quantification Report

Dataset: C:\MassLynx\Default.pro\Sample Results\8290-b10oct11a.qld

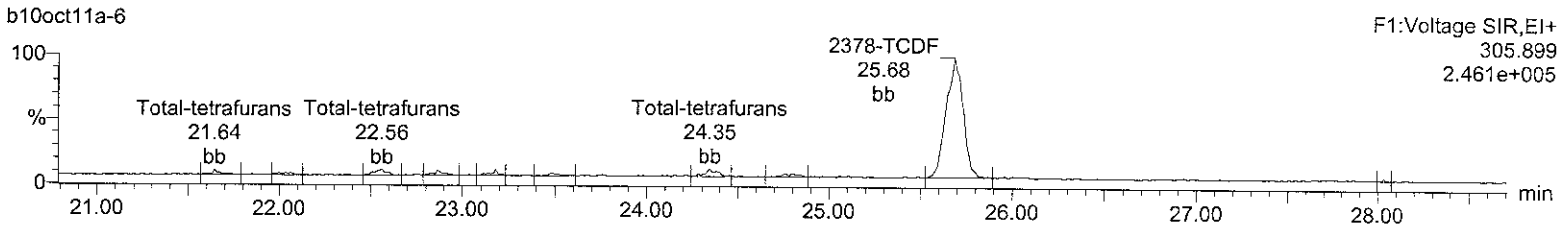
Last Altered: Tuesday, October 11, 2011 08:03:54 Eastern Standard Time
Printed: Tuesday, October 11, 2011 08:04:29 Eastern Standard Time

Name: b10oct11a-6, Date: 10-Oct-2011, Time: 17:03:06, ID: 12004343-1 MS, Description: 19680, Job: HMS8290_1S, Task: HRP763_1, User: MJC

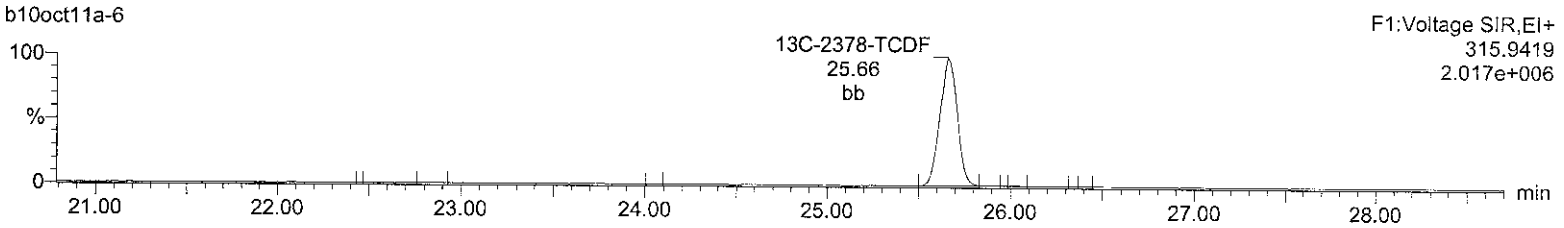
Total-tetrafurans



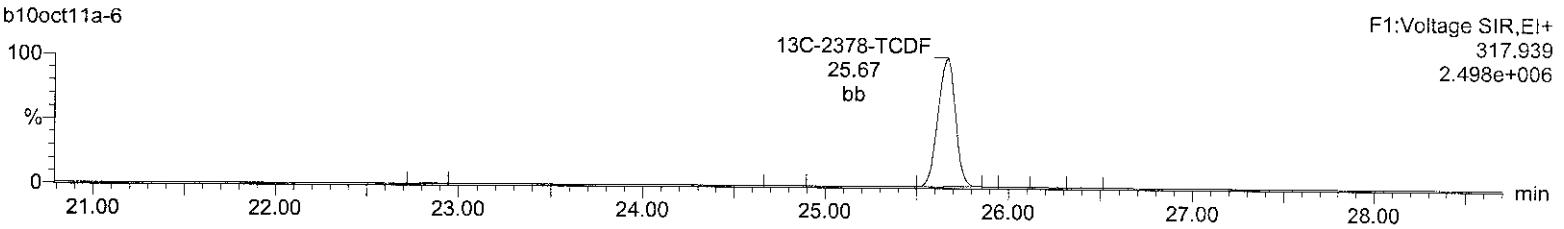
Total-tetrafurans



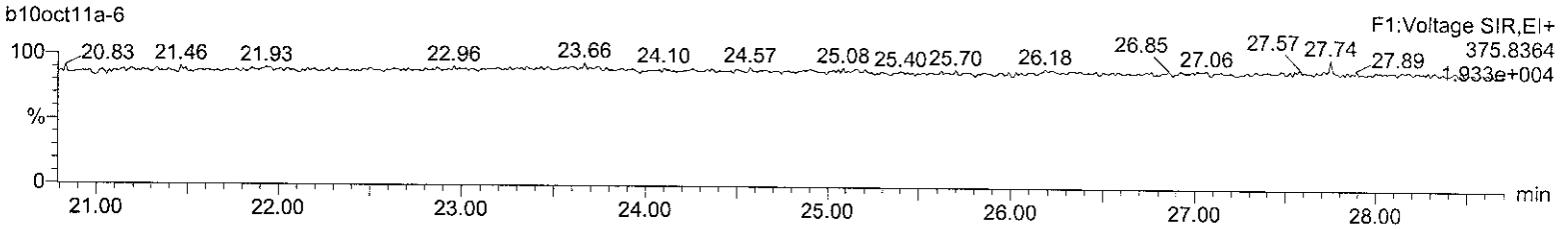
13C-2378-TCDF



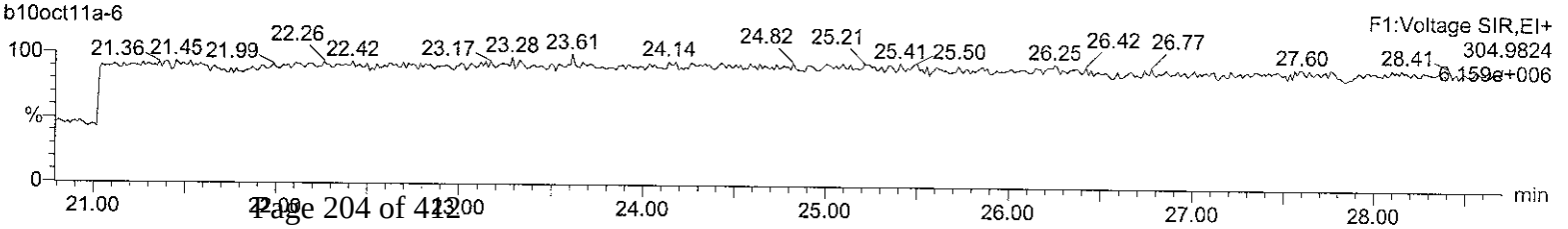
13C-2378-TCDF



HxDPE



Lock Mass F1



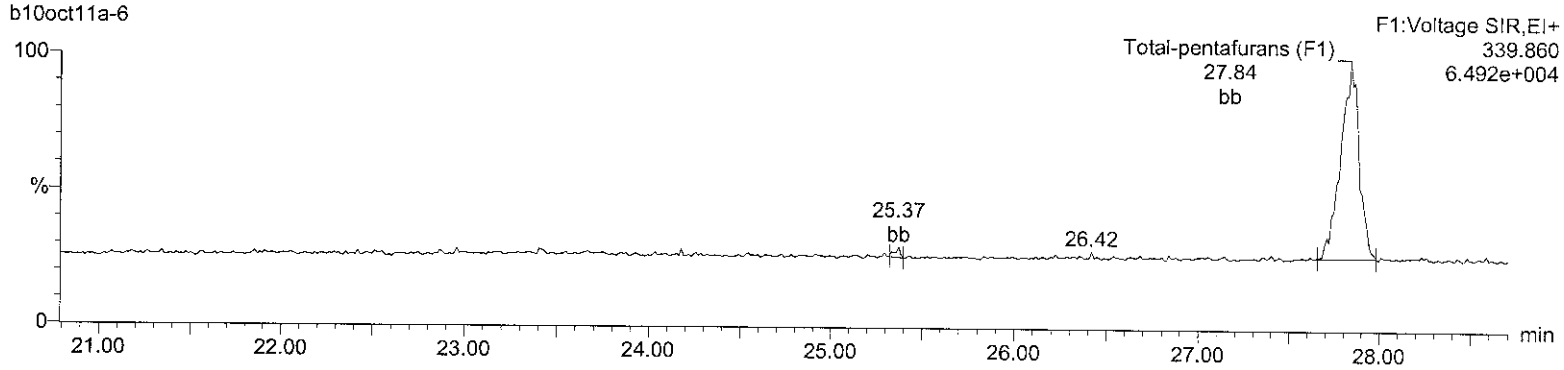
Quantify Sample Report **MassLynx 4.1**
Method 8290 Quantification Report

Dataset: C:\MassLynx\Default.pro\Sample Results\8290-b10oct11a.qld

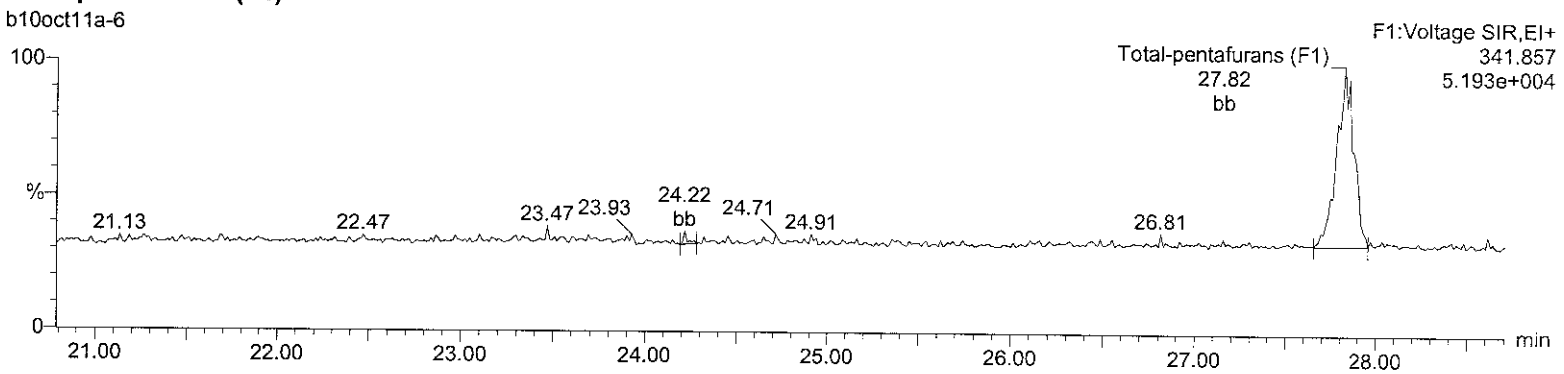
Last Altered: Tuesday, October 11, 2011 08:03:54 Eastern Standard Time
Printed: Tuesday, October 11, 2011 08:04:29 Eastern Standard Time

Name: b10oct11a-6, Date: 10-Oct-2011, Time: 17:03:06, ID: 12004343-1 MS, Description: 19680, Job: HMS8290_1S, Task: HRP763_1, User: MJC

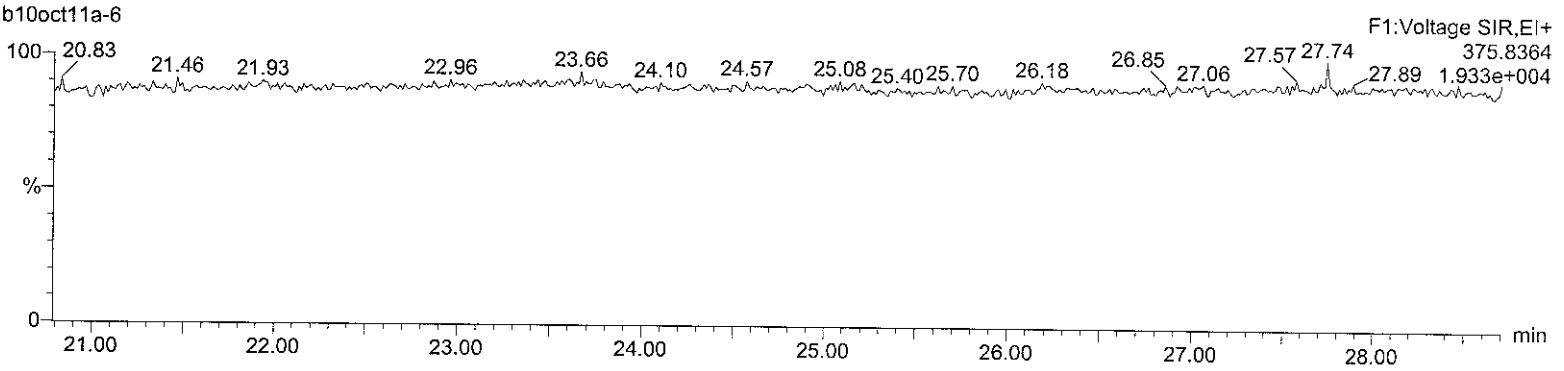
Total-pentafurans (F1)
b10oct11a-6



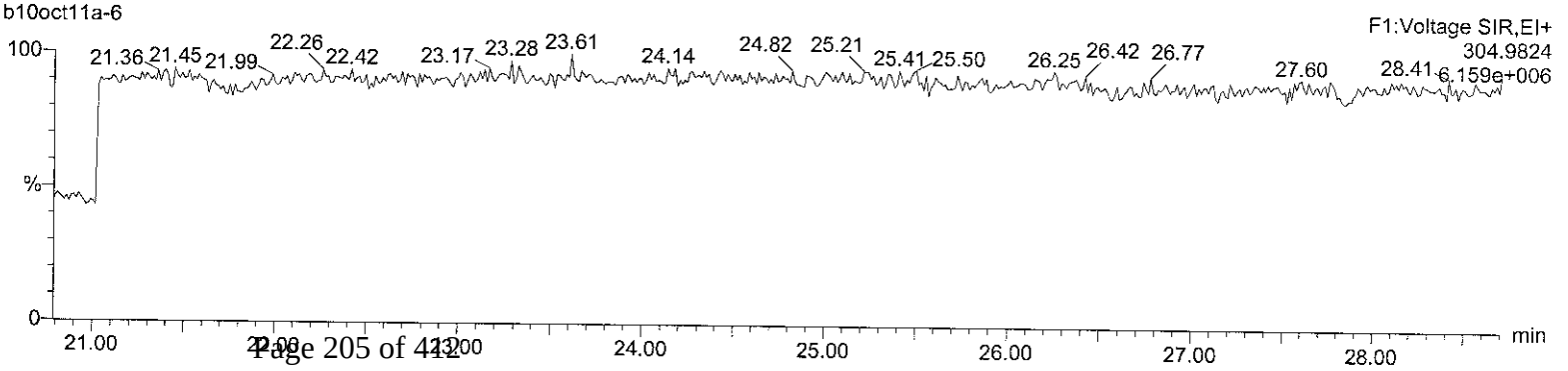
Total-pentafurans (F1)
b10oct11a-6



HxDPE
b10oct11a-6



Lock Mass F1
b10oct11a-6



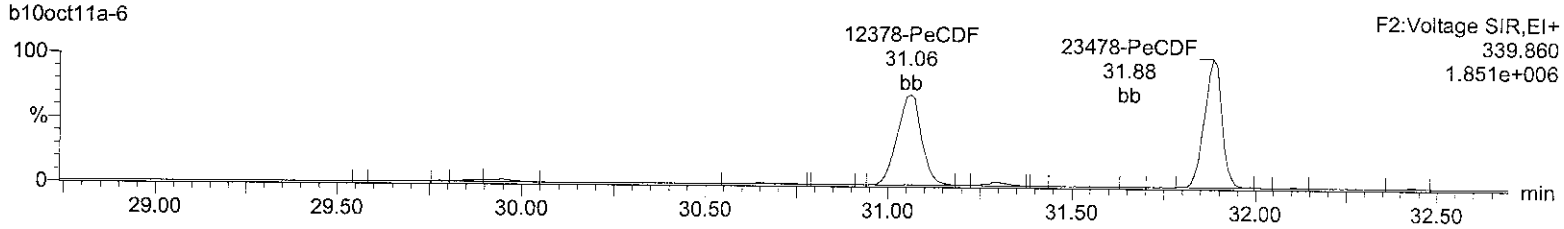
Quantify Sample Report **MassLynx 4.1**
Method 8290 Quantification Report

Dataset: C:\MassLynx\Default.pro\Sample Results\8290-b10oct11a.qld

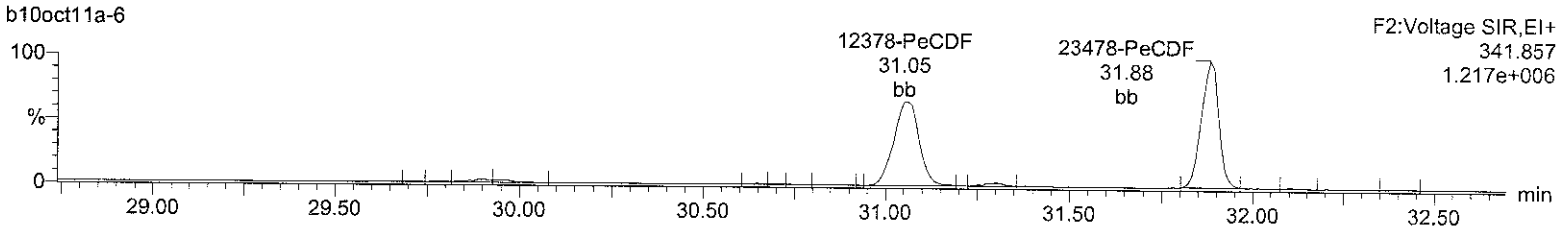
Last Altered: Tuesday, October 11, 2011 08:03:54 Eastern Standard Time
Printed: Tuesday, October 11, 2011 08:04:29 Eastern Standard Time

Name: b10oct11a-6, Date: 10-Oct-2011, Time: 17:03:06, ID: 12004343-1 MS, Description: 19680, Job: HMS8290_1S, Task: HRP763_1, User: MJC

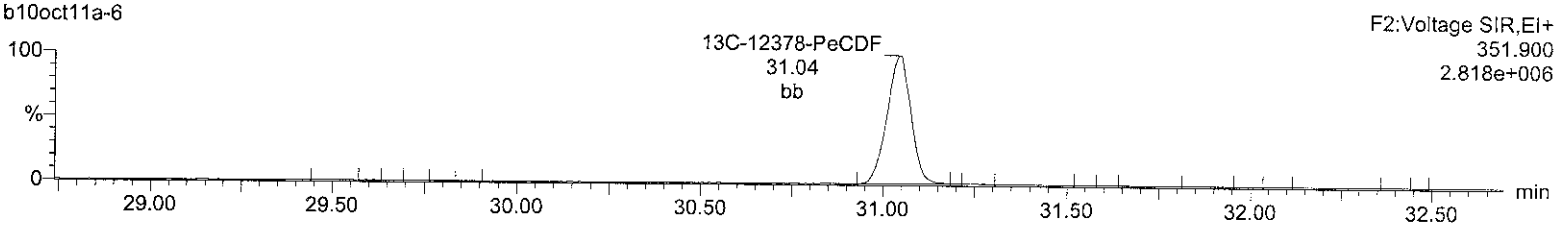
Total-pentafurans
b10oct11a-6



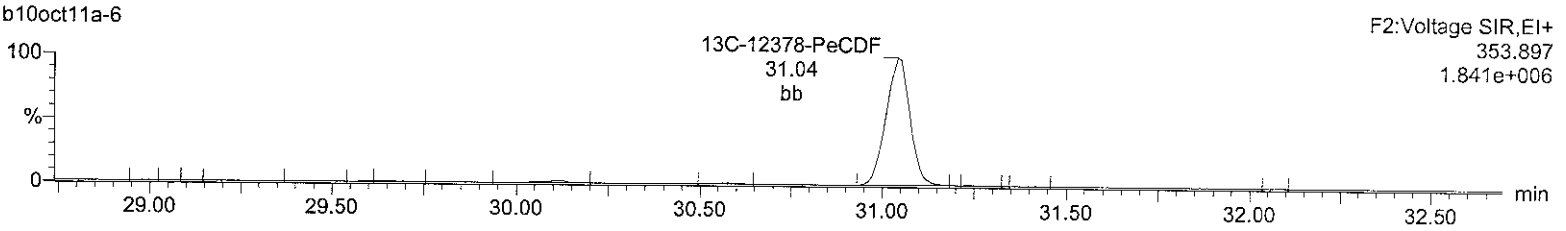
Total-pentafurans
b10oct11a-6



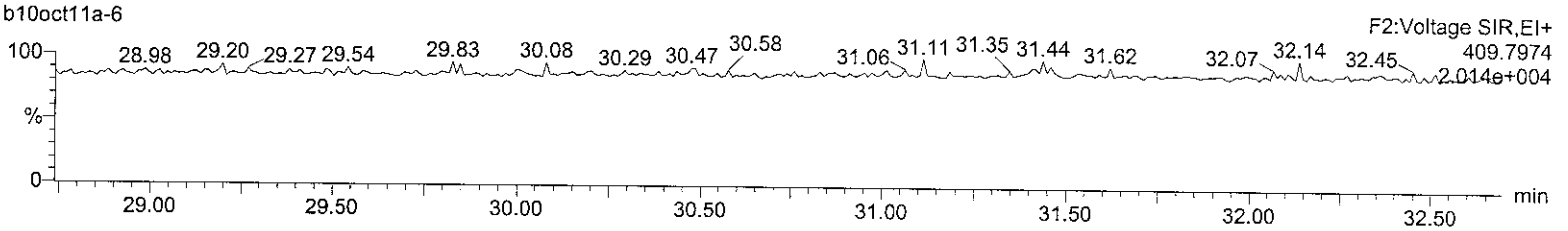
13C-12378-PeCDF
b10oct11a-6



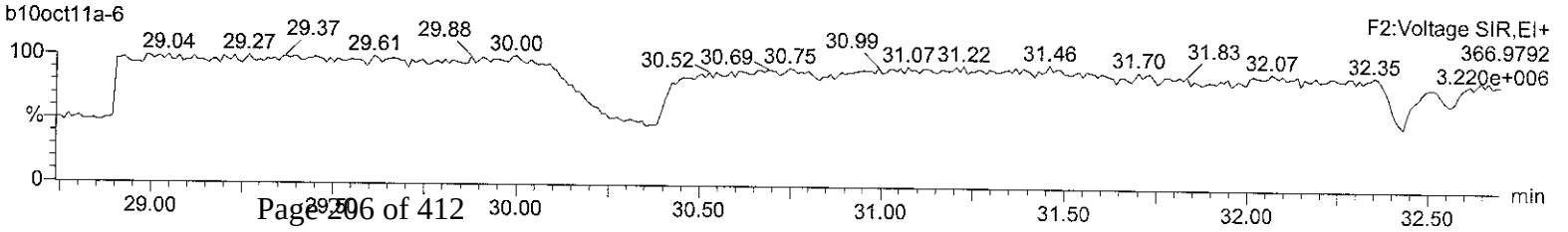
13C-12378-PeCDF
b10oct11a-6



HpDPE
b10oct11a-6



Lock Mass F2
b10oct11a-6



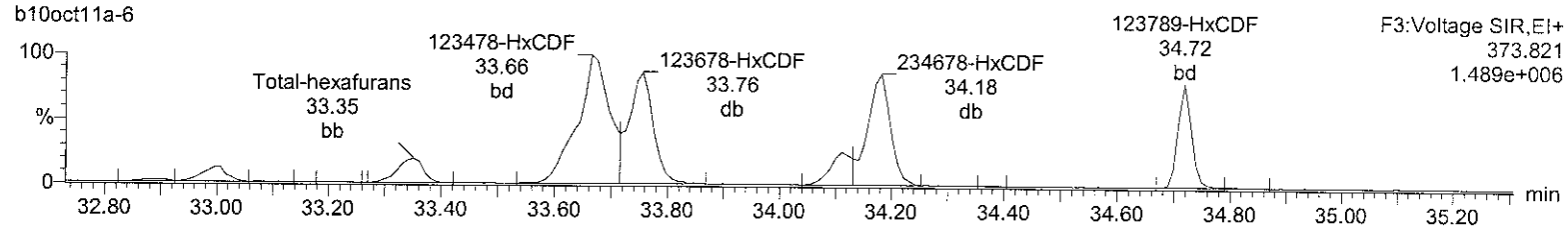
Quantify Sample Report **MassLynx 4.1**
Method 8290 Quantification Report

Dataset: C:\MassLynx\Default.pro\Sample Results\8290-b10oct11a.qld

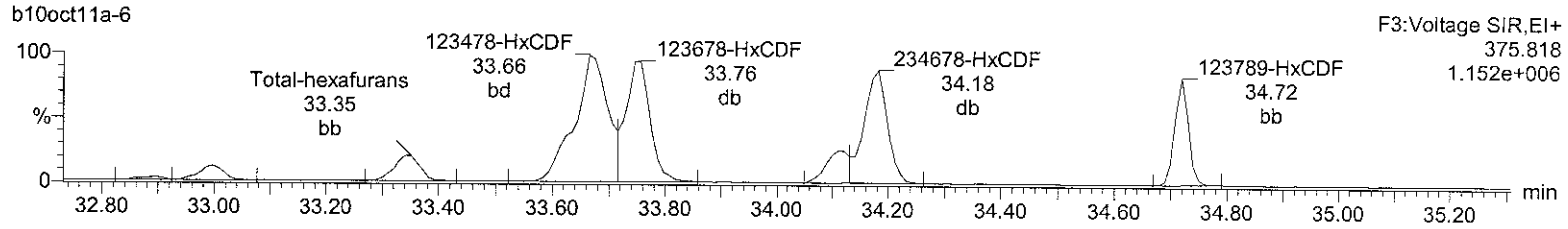
Last Altered: Tuesday, October 11, 2011 08:03:54 Eastern Standard Time
Printed: Tuesday, October 11, 2011 08:04:29 Eastern Standard Time

Name: b10oct11a-6, Date: 10-Oct-2011, Time: 17:03:06, ID: 12004343-1 MS, Description: 19680, Job: HMS8290_1S, Task: HRP763_1, User: MJC

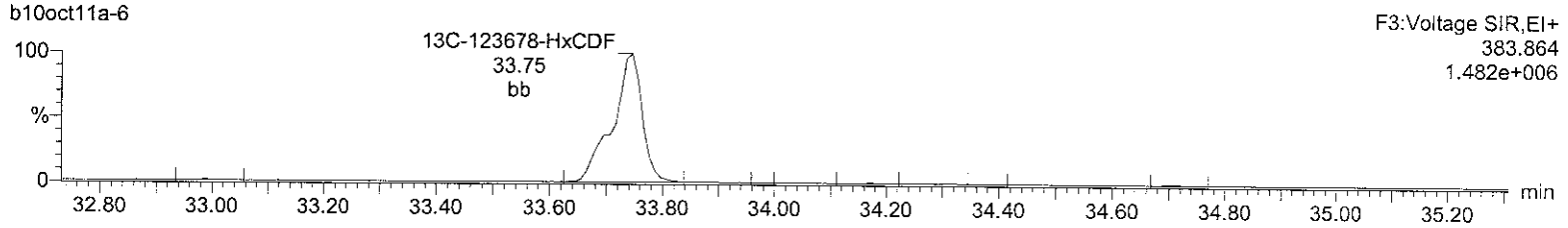
Total-hexafurans



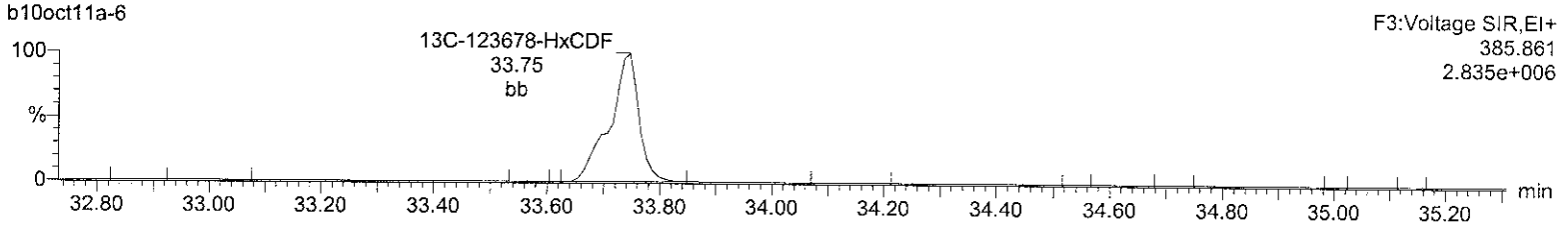
Total-hexafurans



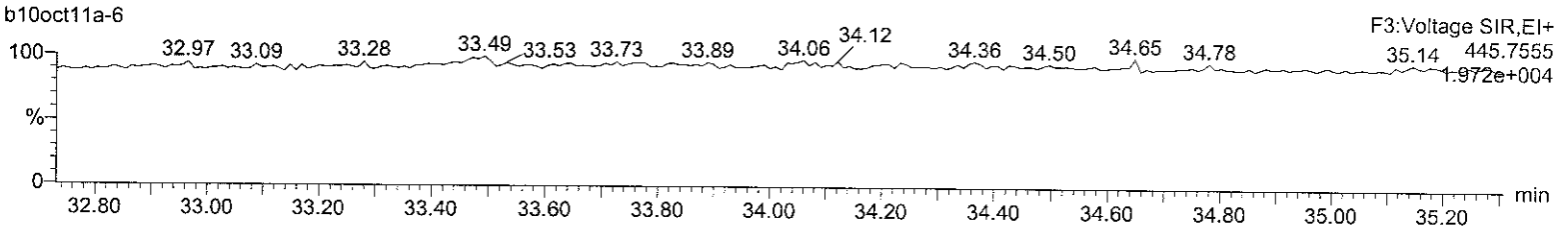
13C-123678-HxCDF



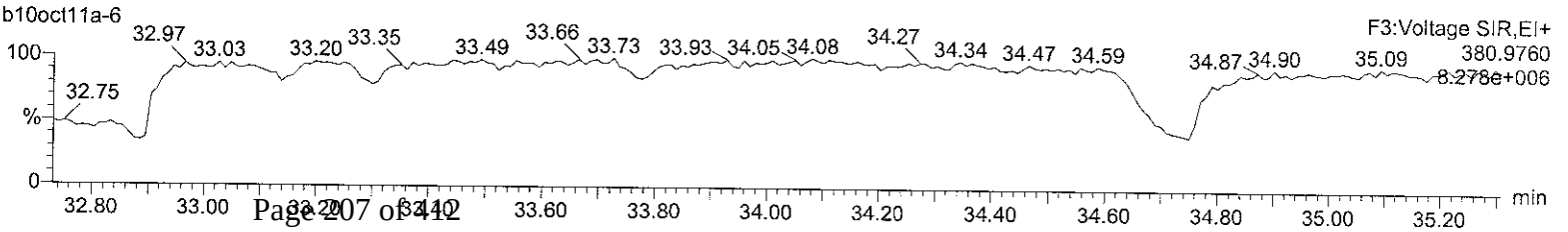
13C-123678-HxCDF



OcDPE



Lock Mass F3



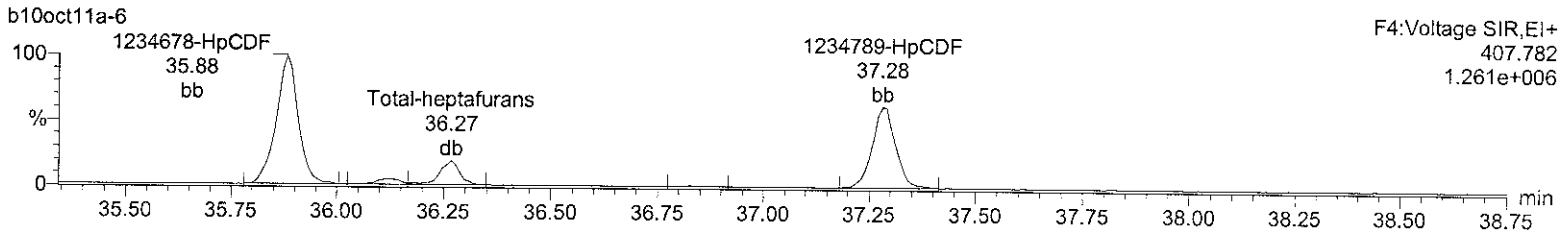
Quantify Sample Report **MassLynx 4.1**
Method 8290 Quantification Report

Dataset: C:\MassLynx\Default.pro\Sample Results\8290-b10oct11a.qld

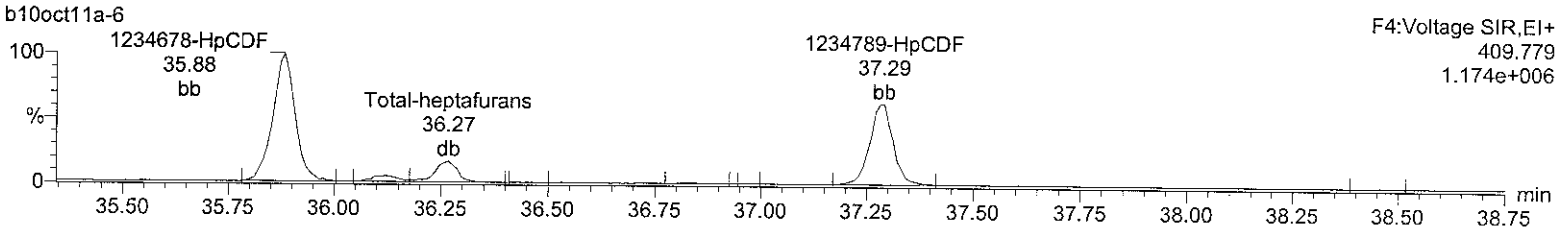
Last Altered: Tuesday, October 11, 2011 08:03:54 Eastern Standard Time
Printed: Tuesday, October 11, 2011 08:04:29 Eastern Standard Time

Name: b10oct11a-6, Date: 10-Oct-2011, Time: 17:03:06, ID: 12004343-1 MS, Description: 19680, Job: HMS8290_1S, Task: HRP763_1, User: MJC

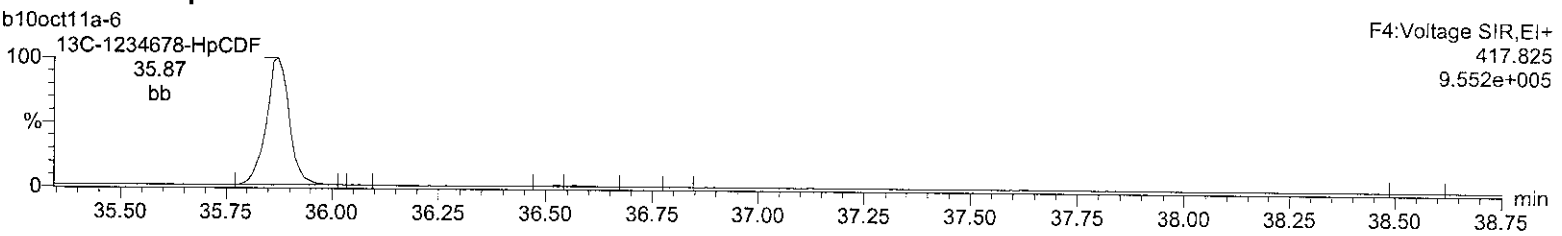
Total-heptafurans



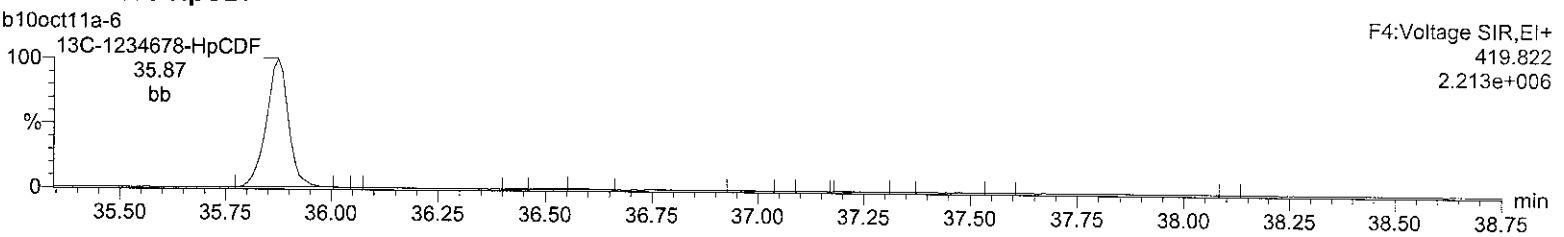
Total-heptafurans



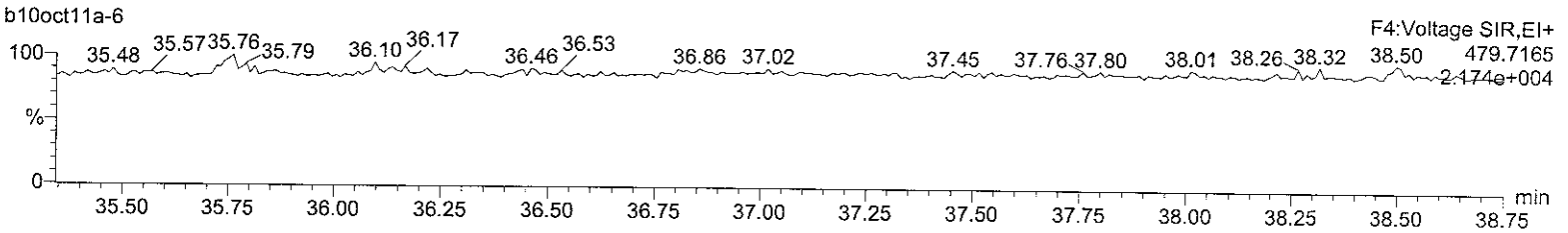
13C-1234678-HpCDF



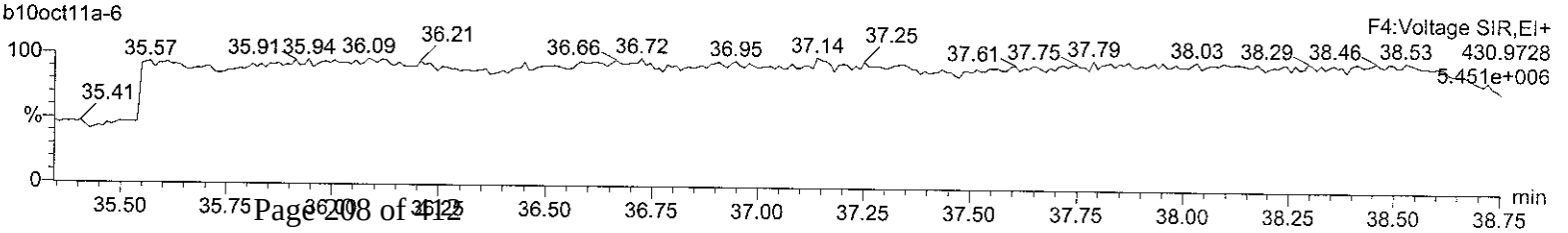
13C-1234678-HpCDF



NoDPE



Lock Mass F4



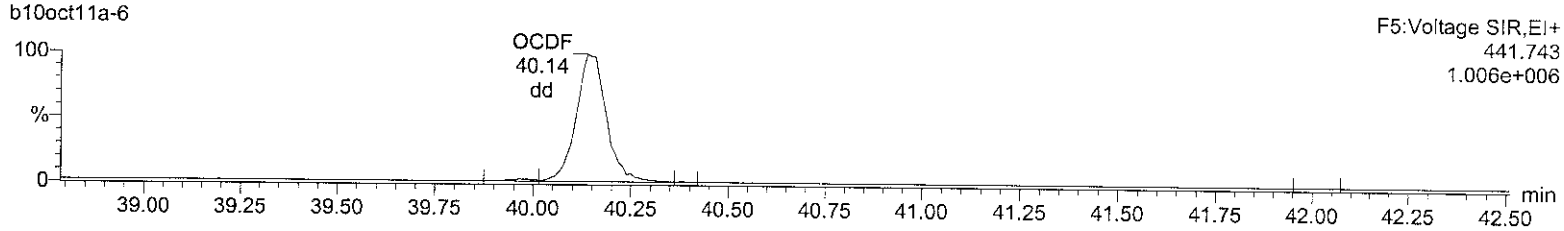
Quantify Sample Report **MassLynx 4.1**
Method 8290 Quantification Report

Dataset: C:\MassLynx\Default.pro\Sample Results\8290-b10oct11a.qld

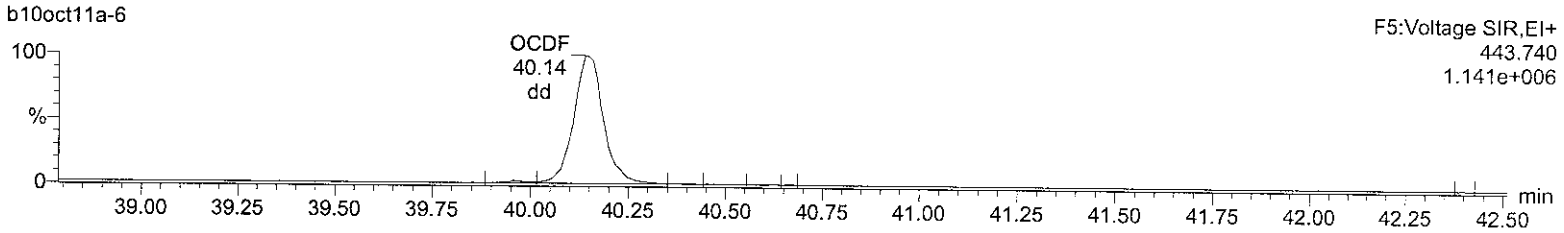
Last Altered: Tuesday, October 11, 2011 08:03:54 Eastern Standard Time
Printed: Tuesday, October 11, 2011 08:04:29 Eastern Standard Time

Name: b10oct11a-6, Date: 10-Oct-2011, Time: 17:03:06, ID: 12004343-1 MS, Description: 19680, Job: HMS8290_1S, Task: HRP763_1, User: MJC

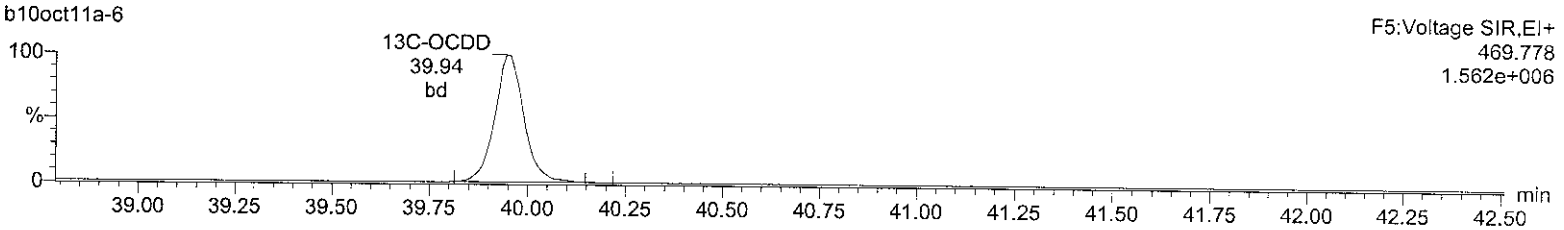
OCDF
b10oct11a-6



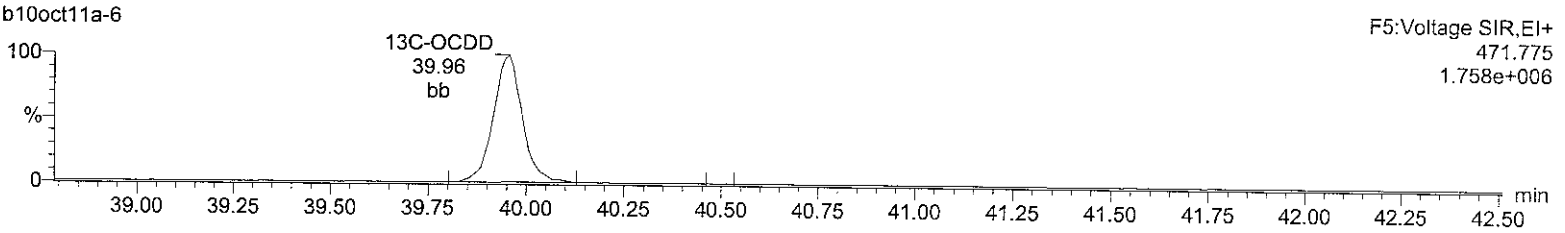
OCDF
b10oct11a-6



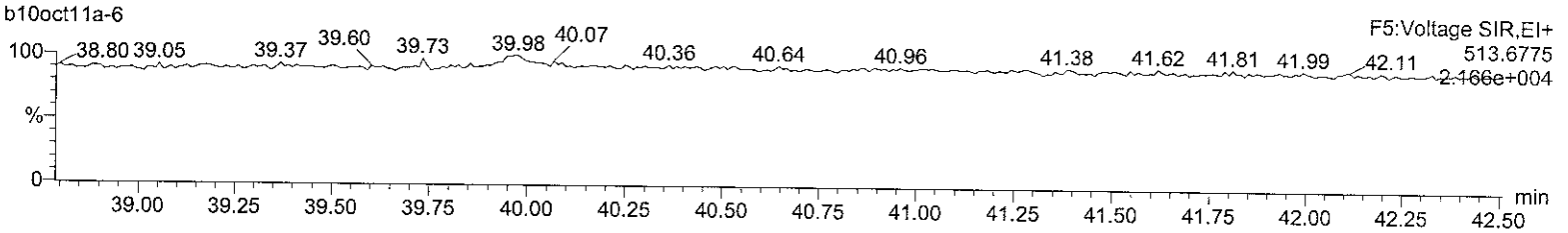
13C-OCDD
b10oct11a-6



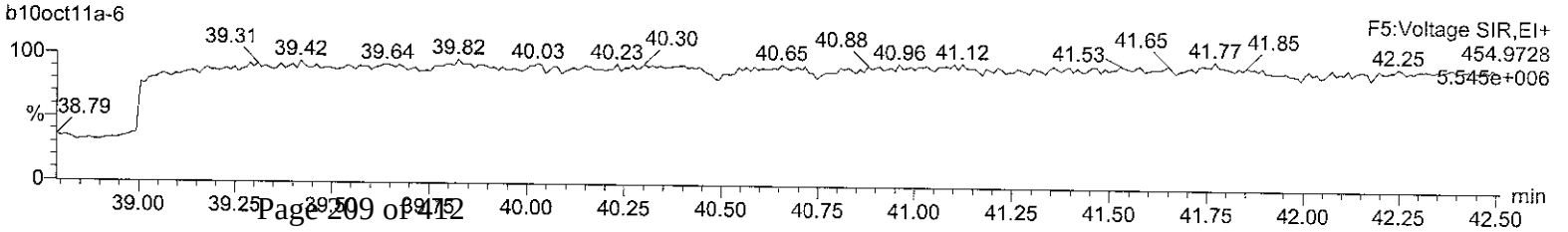
13C-OCDD
b10oct11a-6



DeDPE
b10oct11a-6



Lock Mass F5
b10oct11a-6



Hi-Res Dioxins/Furans
Certificate of Analysis
Sample Summary

SDG Number:	**1109191**	**Client:**	**EMPI001**	**Project:**	**QC**
Lab Sample ID:	**12004344**	**Date Collected:**	**09/22/2011 10:45**	**Matrix:**	**SOLID**
Client Sample:	**QC for batch 19663**	**Date Received:**	**09/27/2011 11:45**	**%Moisture:**	**13**
Client ID:	**FLC-4-SSC-0006-092211(2818001MS**			**Prep Basis:**	**Dry Weight**
Batch ID:	**19680**	**Method:**	**SW846 8290A**		
Run Date:	**10/10/2011 17:47**	**Analyst:**	**MJC**	**Instrument:**	**HRP763**
Data File:	**b10oct11a-7**			**Dilution:**	**1**
Prep Batch:	**19663**	**Prep Method:**	**SW846 3540C**		
Prep Date:	**04-OCT-11**	**Aliquot:**	**13.12 g**		

CAS No.	Parmname	Qual	Result	EMPC	Units	EDL	PQL
1746-01-6	2,3,7,8-TCDD		17.4		pg/g	0.459	0.876
40321-76-4	1,2,3,7,8-PeCDD		91.6		pg/g	0.541	4.38
39227-28-6	1,2,3,4,7,8-HxCDD		127		pg/g	0.730	4.38
57653-85-7	1,2,3,6,7,8-HxCDD		116		pg/g	0.678	4.38
19408-74-3	1,2,3,7,8,9-HxCDD		142		pg/g	0.757	4.38
35822-46-9	1,2,3,4,6,7,8-HpCDD		1590		pg/g	2.15	4.38
3268-87-9	1,2,3,4,6,7,8,9-OCDD	E	9930		pg/g	1.86	8.76
51207-31-9	2,3,7,8-TCDF		16.6		pg/g	0.596	0.876
57117-41-6	1,2,3,7,8-PeCDF		87.2		pg/g	0.772	4.38
57117-31-4	2,3,4,7,8-PeCDF		90.4		pg/g	0.790	4.38
70648-26-9	1,2,3,4,7,8-HxCDF		145		pg/g	0.744	4.38
57117-44-9	1,2,3,6,7,8-HxCDF		91.0		pg/g	0.639	4.38
72918-21-9	1,2,3,7,8,9-HxCDF	Q	59.0		pg/g	0.855	4.38
60851-34-5	2,3,4,6,7,8-HxCDF		105		pg/g	0.708	4.38
67562-39-4	1,2,3,4,6,7,8-HpCDF		105		pg/g	0.366	4.38
55673-89-7	1,2,3,4,7,8,9-HpCDF		100		pg/g	0.501	4.38
39001-02-0	1,2,3,4,6,7,8,9-OCDF		188		pg/g	0.590	8.76

Surrogate/Tracer recovery	Qual	Result	Nominal	Units	Recovery%	Acceptable Limits
13C-2,3,7,8-TCDD		148	175	pg/g	84.5	(40%-135%)
13C-1,2,3,7,8-PeCDD		136	175	pg/g	77.4	(40%-135%)
13C-1,2,3,6,7,8-HxCDD		117	175	pg/g	66.6	(40%-135%)
13C-1,2,3,4,6,7,8-HpCDD		155	175	pg/g	88.6	(40%-135%)
13C-OCDD		309	350	pg/g	88.1	(40%-135%)
13C-2,3,7,8-TCDF		149	175	pg/g	85.3	(40%-135%)
13C-1,2,3,7,8-PeCDF		121	175	pg/g	68.8	(40%-135%)
13C-1,2,3,6,7,8-HxCDF		89.2	175	pg/g	50.9	(40%-135%)
13C-1,2,3,4,6,7,8-HpCDF		131	175	pg/g	74.6	(40%-135%)

Comments:

E **Value is estimated - Concentration of the target analyte exceeds the instrument calibration range**
K **Estimated Maximum Possible Concentration**
Q **Quantitative Interference**

Quantify Sample Summary Report **MassLynx 4.1**
Method 8290 Quantification Report

Q

Dataset: C:\MassLynx\Default.pro\Sample Results\8290-b10oct11a-7.qld

Last Altered: Tuesday, October 11, 2011 12:15:30 Eastern Standard Time
Printed: Tuesday, October 11, 2011 12:16:15 Eastern Standard Time

HMP
11Oct11

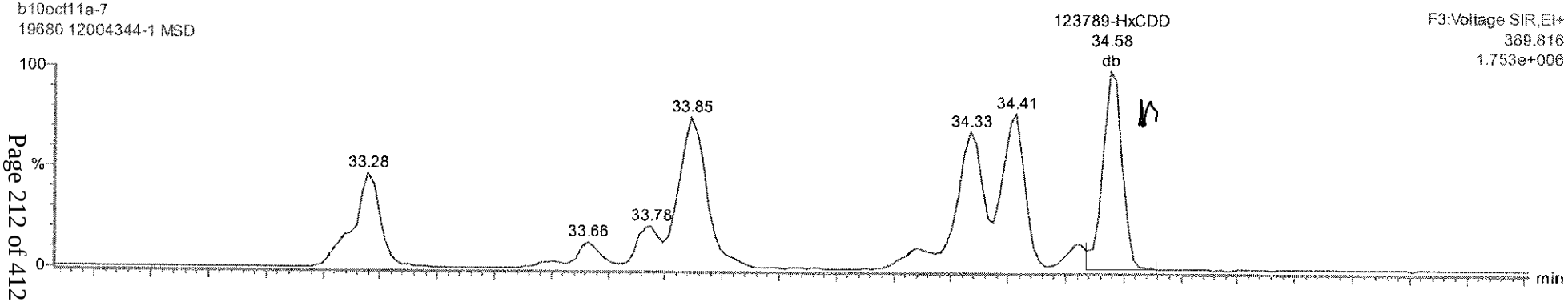
Method: Untitled 10 Oct 2011 14:05:54
Calibration: C:\MassLynx\DEFAULT.PRO\CurveDB\8290-b01nov10b.cdb 02 Nov 2010 08:19:01

Name: b10oct11a-7, Date: 10-Oct-2011, Time: 17:47:44, ID: 12004344-1 MSD, Description: 19680, Job: HMS8290_1S, Task: HRP763_1, User: MJC

	Name	Ion1Area	Ion2Area	Response	RT	RRT	RA	Fail?	pg/uL	EDL	Height1	Noise1	S/N1	Height2	Noise2	S/N2	M
1	2378-TCDD	1.23e4	1.59e4	2.82e4	26.59	1.000	0.78	NO	9.950	0.262	1.07e5	1346	79.4	1.41e5	1244	113.5	bb
2	12378-PeCDD	7.23e4	4.51e4	1.17e5	32.11	1.001	1.60	NO	52.303	0.309	1.28e6	1981	645.7	8.13e5	2939	276.6	bb
3	123478-HxCDD	6.20e4	5.00e4	1.12e5	34.33	0.998	1.24	NO	72.673	0.417	1.19e6	2343	509.4	9.36e5	3030	309.0	dd
4	123678-HxCDD	6.18e4	4.88e4	1.11e5	34.41	1.001	1.27	NO	66.474	0.387	1.36e6	2343	580.3	1.02e6	3030	338.0	dd
5	123789-HxCDD	6.69e4	5.42e4	1.21e5	34.58	1.005	1.23	NO	81.346	0.432	1.73e6	2343	739.0	1.38e6	3030	454.0	db
6	1234678-HpCDD	7.65e5	7.35e5	1.50e6	36.82	1.000	1.04	NO	905.624	1.23	1.28e7	7400	1723.1	1.22e7	6314	1937.4	bb
7	OCDD	3.64e6	4.09e6	7.73e6	39.95	1.000	0.89	NO	5671.298	1.06	4.47e7	3404	13140.7	4.96e7	3475	14280.7	bb
8	2378-TCDF	1.84e4	2.44e4	4.27e4	25.70	1.001	0.75	NO	9.458	0.340	1.71e5	1680	101.5	2.42e5	3579	67.7	bb
9	12378-PeCDF	9.83e4	6.20e4	1.60e5	31.07	1.001	1.58	NO	49.786	0.441	1.32e6	3596	368.2	8.69e5	3949	219.9	bd
10	23478-PeCDF	9.98e4	6.29e4	1.63e5	31.89	1.027	1.59	NO	51.618	0.451	1.72e6	3596	479.4	1.08e6	3949	273.3	bb
11	123478-HxCDF	8.07e4	6.49e4	1.46e5	33.69	0.998	1.24	NO	83.021	0.425	1.57e6	2969	529.7	1.32e6	2966	443.8	dd
12	123678-HxCDF	5.89e4	4.72e4	1.06e5	33.78	1.000	1.25	NO	51.957	0.365	1.19e6	2969	399.2	9.46e5	2966	319.0	db
13	234678-HxCDF	6.15e4	4.88e4	1.10e5	34.21	1.013	1.26	NO	59.793	0.404	1.28e6	2969	429.6	1.03e6	2966	348.1	db
14	123789-HxCDF	2.87e4	2.27e4	5.15e4	34.75	1.029	1.26	NO	33.682	0.488	1.09e6	2969	368.1	8.54e5	2966	288.0	bb Q
15	1234678-HpCDF	7.35e4	6.96e4	1.43e5	35.88	1.000	1.06	NO	59.804	0.209	1.29e6	1638	788.7	1.25e6	1904	656.1	bb
16	1234789-HpCDF	5.02e4	4.95e4	9.98e4	37.28	1.039	1.01	NO	57.231	0.286	8.81e5	1638	537.9	7.80e5	1904	409.5	bb
17	OCDF	8.73e4	9.41e4	1.81e5	40.14	1.005	0.93	NO	107.560	0.337	1.00e6	906	1109.7	1.13e6	1807	623.0	db
18	13C-2378-TCDD	1.23e5	1.57e5	2.80e5	26.59	1.028	0.78	NO	84.522	0.323	1.07e6	2456	435.6	1.37e6	1301	1055.6	bb
19	13C-12378-PeCDD	1.33e5	8.47e4	2.18e5	32.09	1.240	1.57	NO	77.386	0.276	2.35e6	1723	1365.6	1.49e6	1005	1484.2	bb
20	13C-123678-HxCDD	9.50e4	7.70e4	1.72e5	34.39	0.995	1.23	NO	66.571	0.142	1.98e6	1689	1173.8	1.60e6	2155	742.4	dd
21	13C-1234678-HpCDD	8.43e4	8.05e4	1.65e5	36.81	1.065	1.05	NO	88.611	0.150	1.42e6	1320	1078.4	1.34e6	1592	840.6	bb
22	13C-OCDD	1.30e5	1.44e5	2.74e5	39.94	1.155	0.90	NO	176.234	0.122	1.55e6	1030	1504.6	1.74e6	951	1833.7	bb
23	13C-2378-TCDF	2.05e5	2.54e5	4.60e5	25.67	0.992	0.81	NO	85.301	0.196	1.76e6	1961	897.1	2.25e6	1746	1287.8	bb
24	13C-12378-PeCDF	2.10e5	1.35e5	3.45e5	31.05	1.200	1.55	NO	68.829	0.264	2.78e6	2099	1326.2	1.79e6	2547	700.8	bb
25	13C-123678-HxCDF	6.71e4	1.26e5	1.93e5	33.77	0.977	0.53	NO	50.940	0.119	1.34e6	1986	672.5	2.50e6	2728	914.7	db
26	13C-1234678-HpCDF	5.80e4	1.29e5	1.87e5	35.87	1.037	0.45	NO	74.628	0.0983	1.03e6	1281	802.4	2.29e6	1295	1767.1	bb
27	13C-1234-TCDD	1.33e5	1.63e5	2.96e5	25.87	0.000	0.82	NO	100.000	0.361	1.17e6	2456	475.8	1.45e6	1301	1112.1	bb
28	13C-123789-HxCDD	1.31e5	1.01e5	2.32e5	34.58	0.000	1.29	NO	100.000	0.158	3.42e6	1689	2023.6	2.71e6	2155	1255.7	MM
29	37Cl-2378-TCDD (SS)	2.16e2		2.16e2	26.60	1.000			0.073	0.0794	4.33e3	816	5.3				bb
30	13C-23478-PeCDF (SS)	3.85e2	2.24e2	6.09e2	31.87	1.026	1.72	NO	0.189	0.272	5.24e3	2099	2.5	4.69e3	2547	1.8	bb

MANUAL INTEGRATION

b10oct11a-7
19680 12004344-1 MSD



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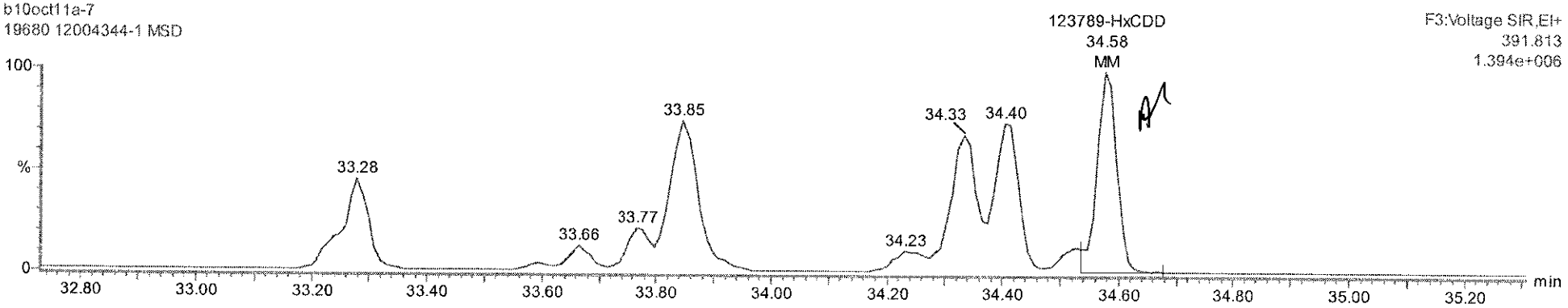
19680 12004344-1 MSD



7/10/11

HMP 11Oct11

MANUAL INTEGRATION

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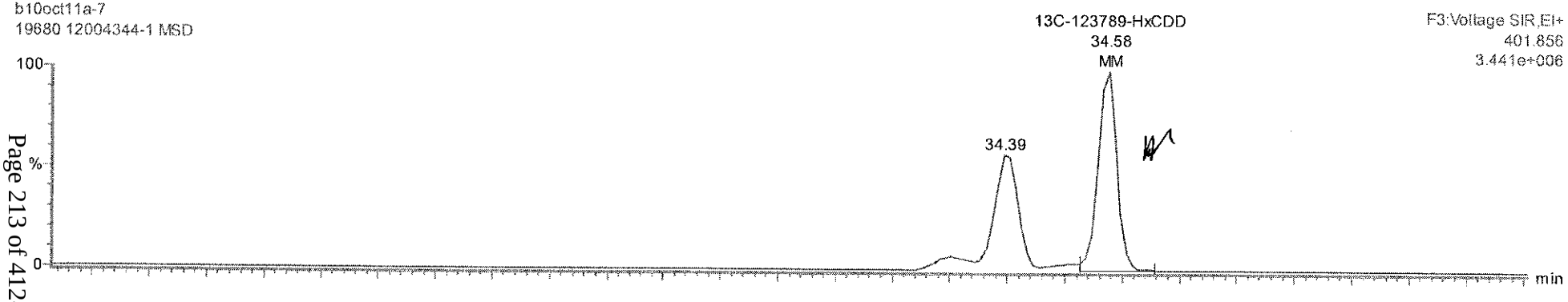

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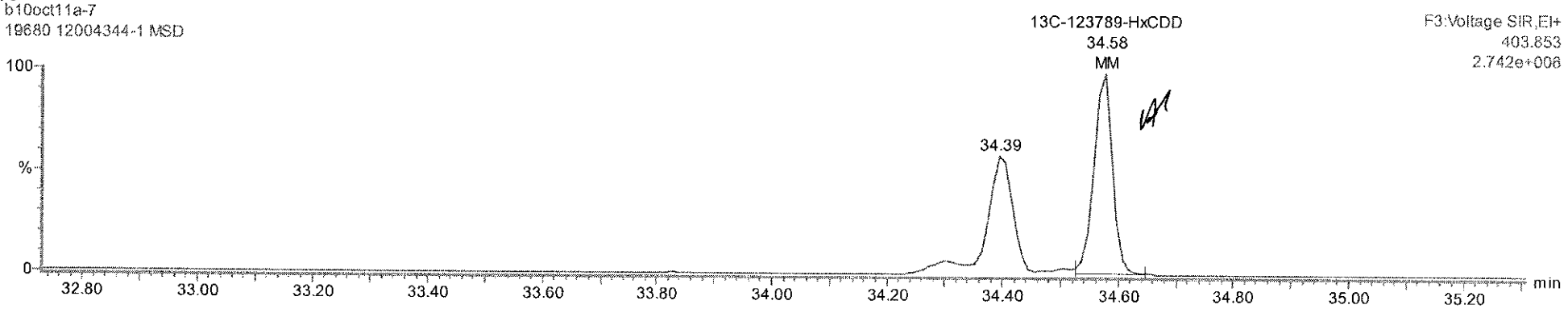


10/11/11

HMP 110ct11

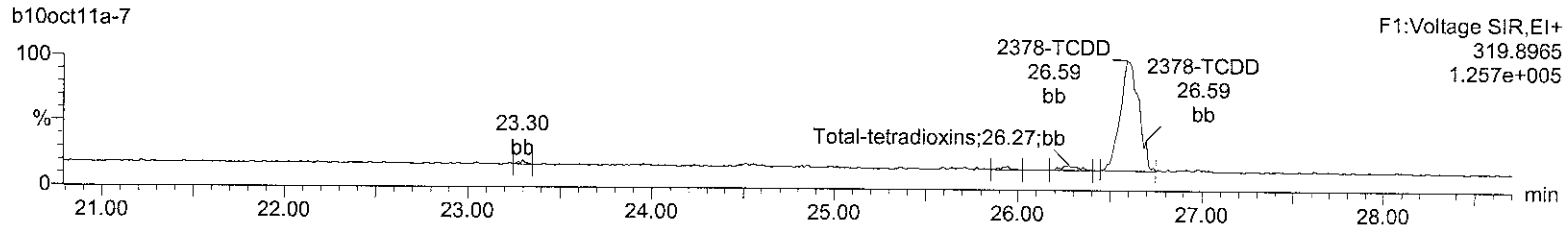
Quantify Sample Report **MassLynx 4.1**
Method 8290 Quantification Report

Dataset: C:\MassLynx\Default.pro\Sample Results\8290-b10oct11a.qld

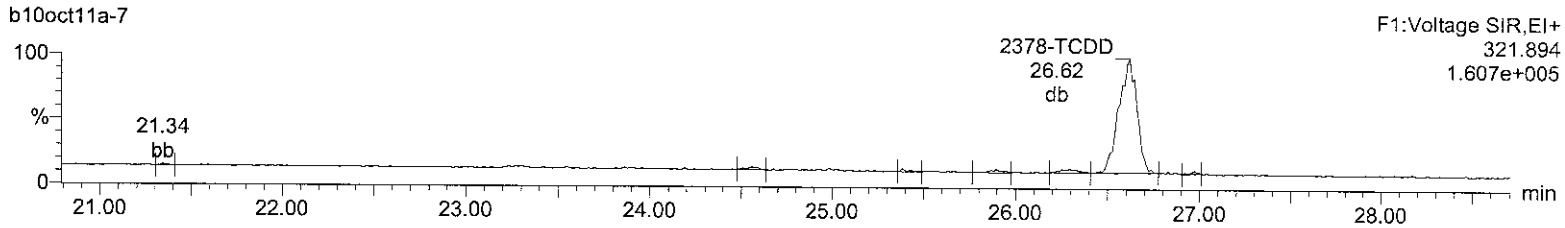
Last Altered: Tuesday, October 11, 2011 08:03:54 Eastern Standard Time
Printed: Tuesday, October 11, 2011 08:04:29 Eastern Standard Time

Name: b10oct11a-7, Date: 10-Oct-2011, Time: 17:47:44, ID: 12004344-1 MSD, Description: 19680, Job: HMS8290_1S, Task: HRP763_1, User: MJC

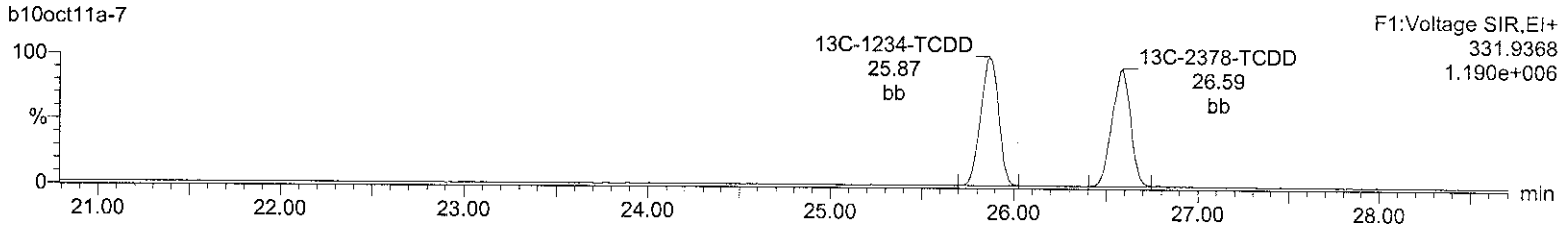
Total-tetradioxins



Total-tetradioxins



13C-2378-TCDD



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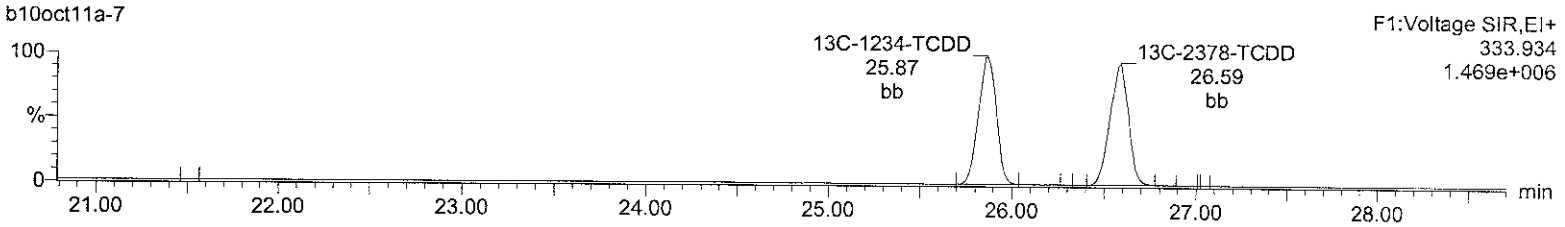
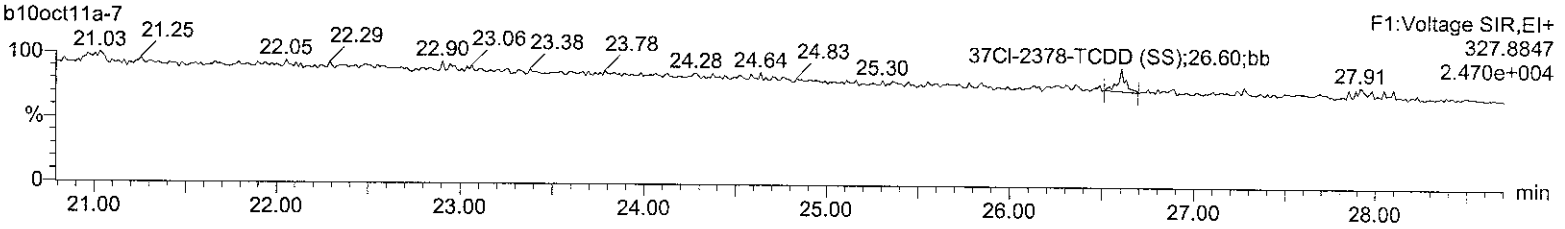
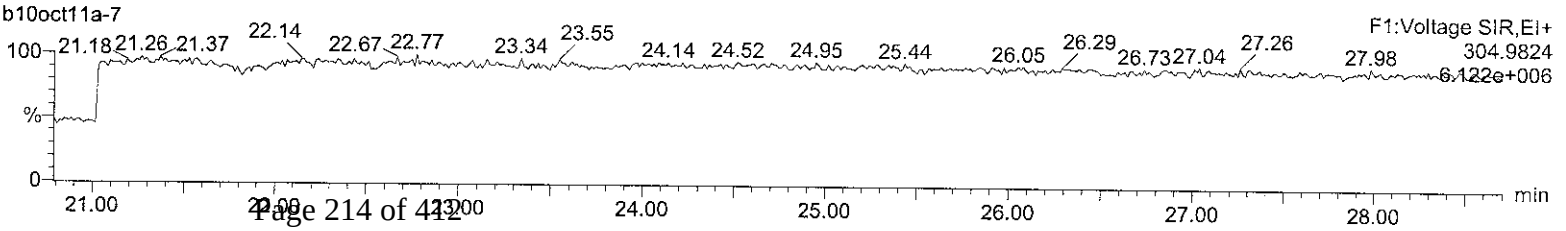


37Cl-2378-TCDD (SS)



Lock Mass F1



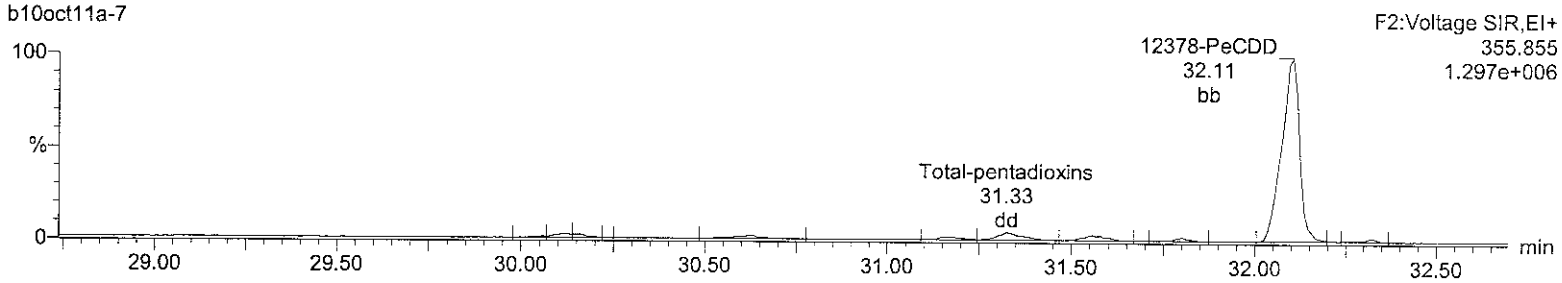
Quantify Sample Report **MassLynx 4.1**
Method 8290 Quantification Report

Dataset: C:\MassLynx\Default.pro\Sample Results\8290-b10oct11a.qld

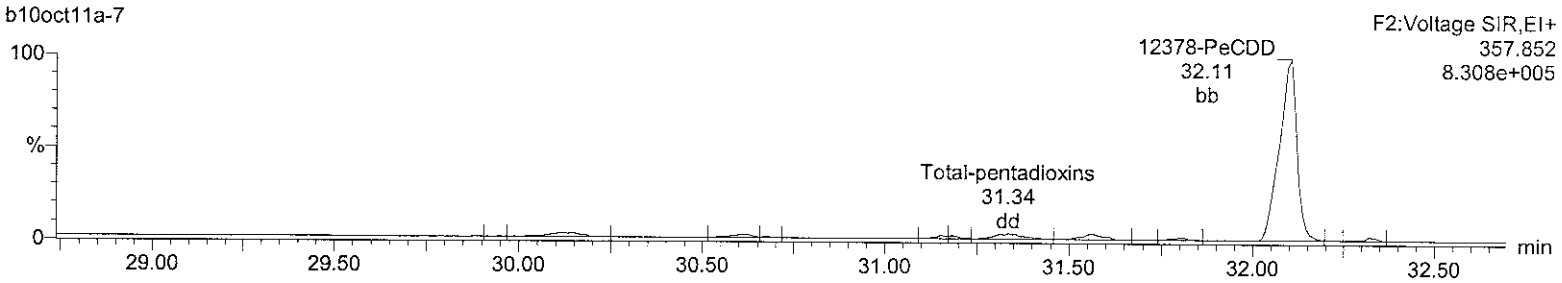
Last Altered: Tuesday, October 11, 2011 08:03:54 Eastern Standard Time
Printed: Tuesday, October 11, 2011 08:04:29 Eastern Standard Time

Name: b10oct11a-7, Date: 10-Oct-2011, Time: 17:47:44, ID: 12004344-1 MSD, Description: 19680, Job: HMS8290_1S, Task: HRP763_1, User: MJC

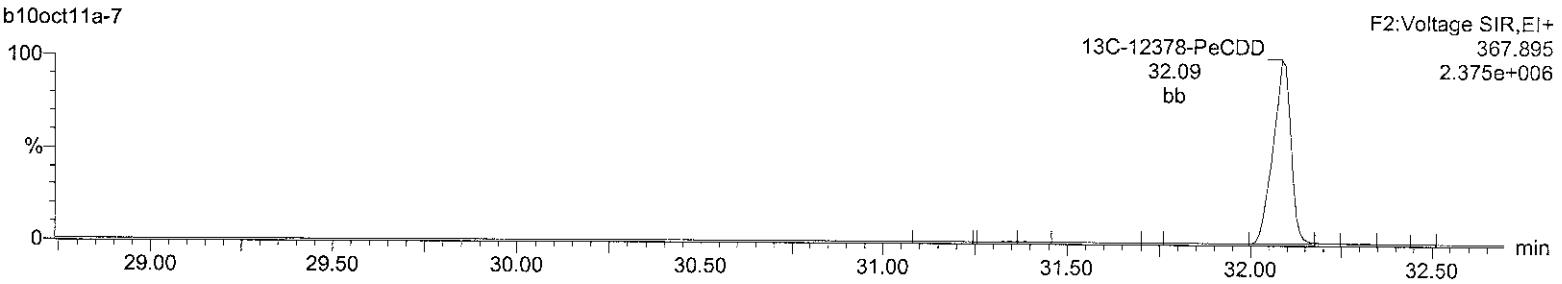
Total-pentadioxins



Total-pentadioxins



13C-12378-PeCDD



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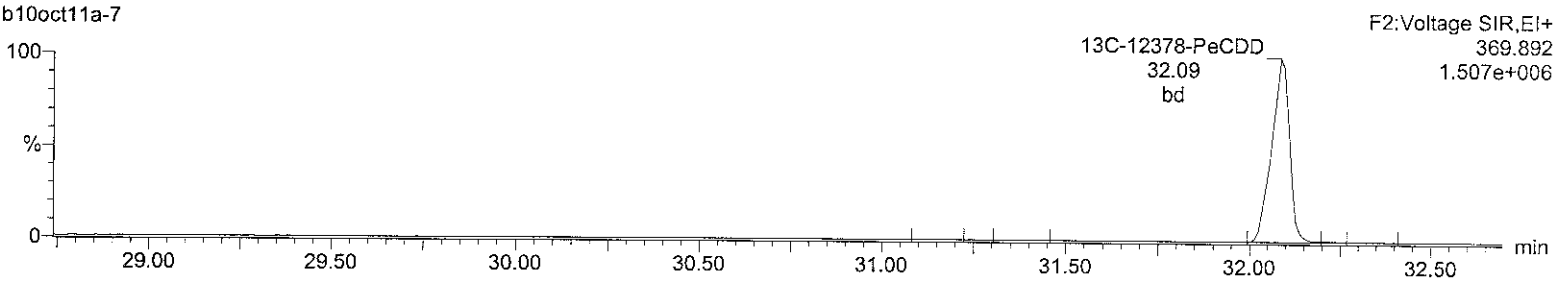
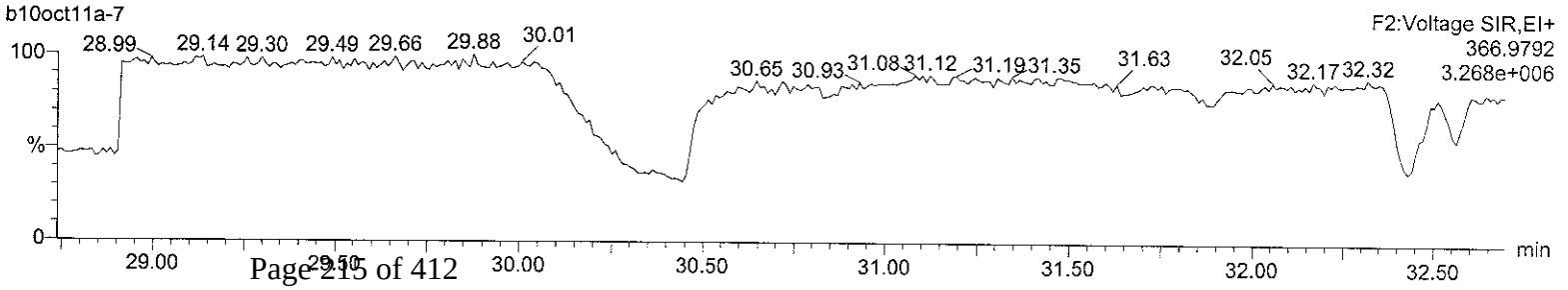


Lock Mass F2



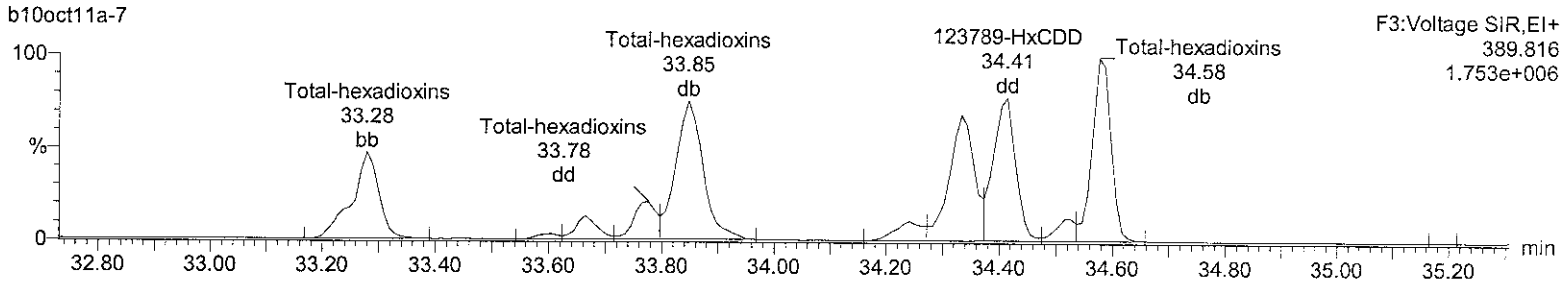
Quantify Sample Report **MassLynx 4.1**
Method 8290 Quantification Report

Dataset: C:\MassLynx\Default.pro\Sample Results\8290-b10oct11a.qld

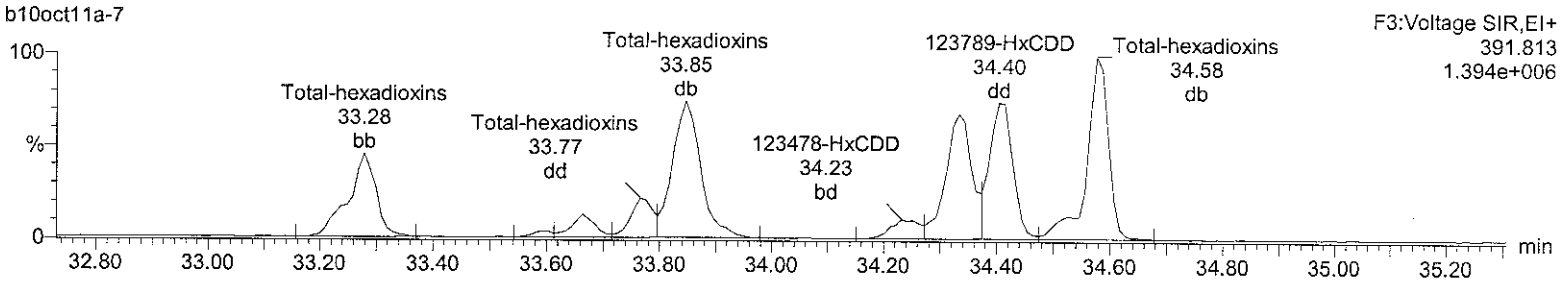
Last Altered: Tuesday, October 11, 2011 08:03:54 Eastern Standard Time
Printed: Tuesday, October 11, 2011 08:04:29 Eastern Standard Time

Name: b10oct11a-7, Date: 10-Oct-2011, Time: 17:47:44, ID: 12004344-1 MSD, Description: 19680, Job: HMS8290_1S, Task: HRP763_1, User: MJC

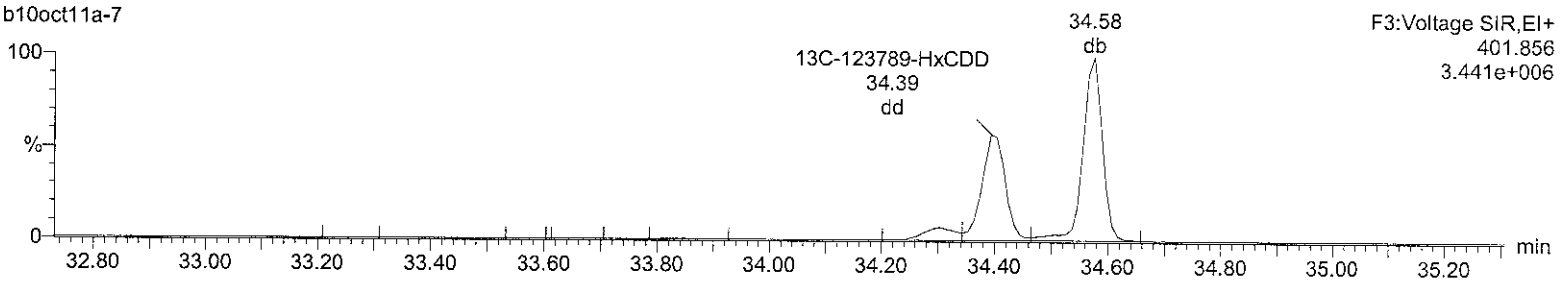
Total-hexadioxins



Total-hexadioxins



13C-123678-HxCDD



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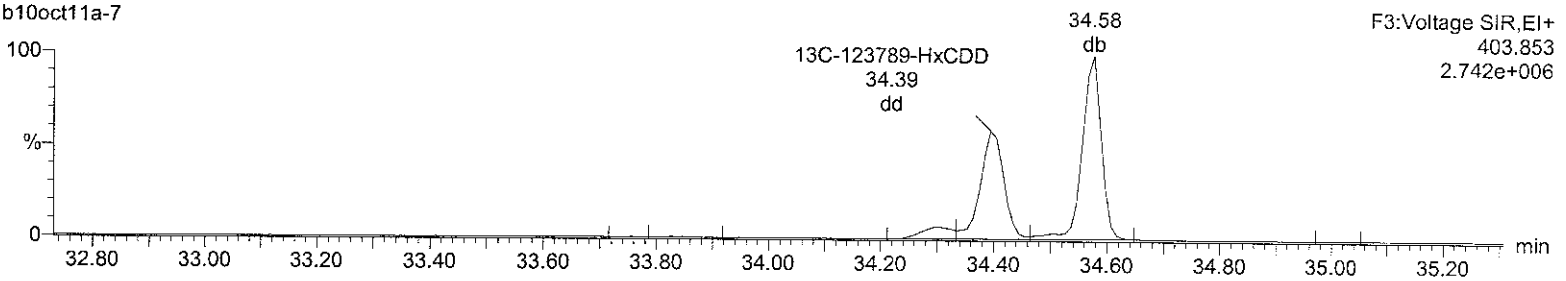
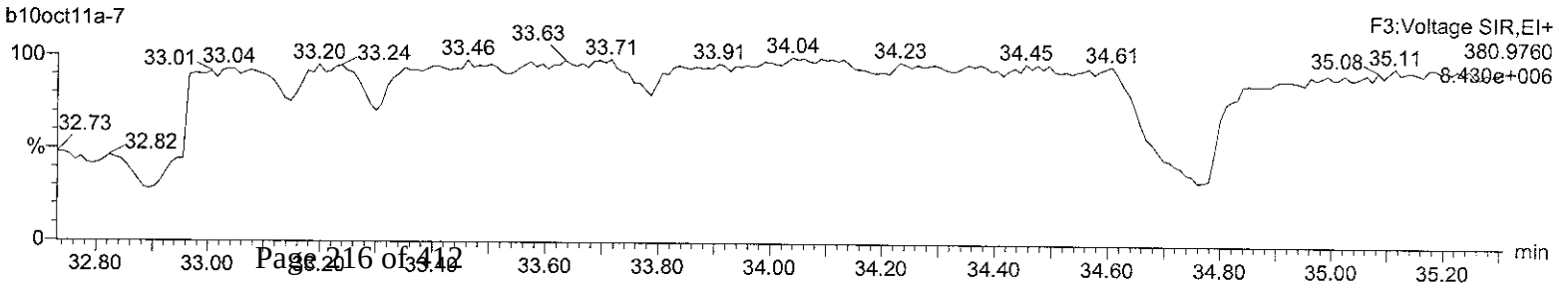


Lock Mass F3



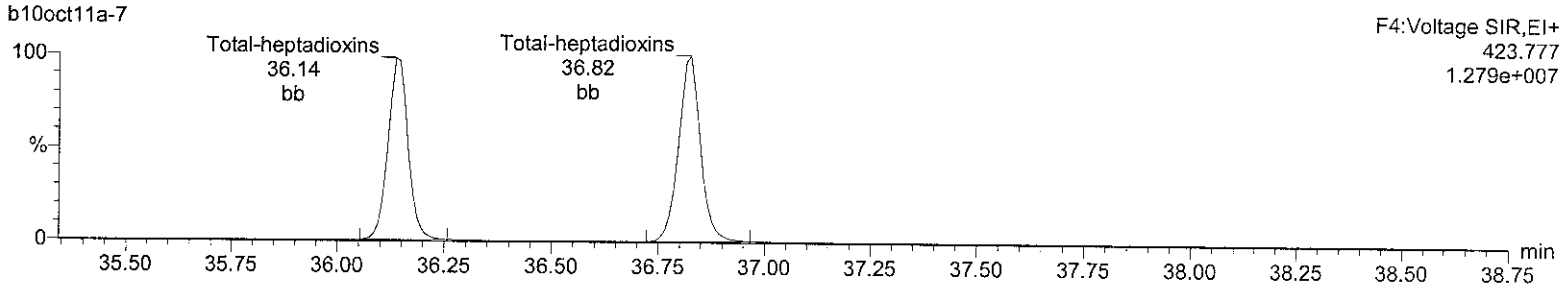
Quantify Sample Report **MassLynx 4.1**
Method 8290 Quantification Report

Dataset: C:\MassLynx\Default.pro\Sample Results\8290-b10oct11a.qld

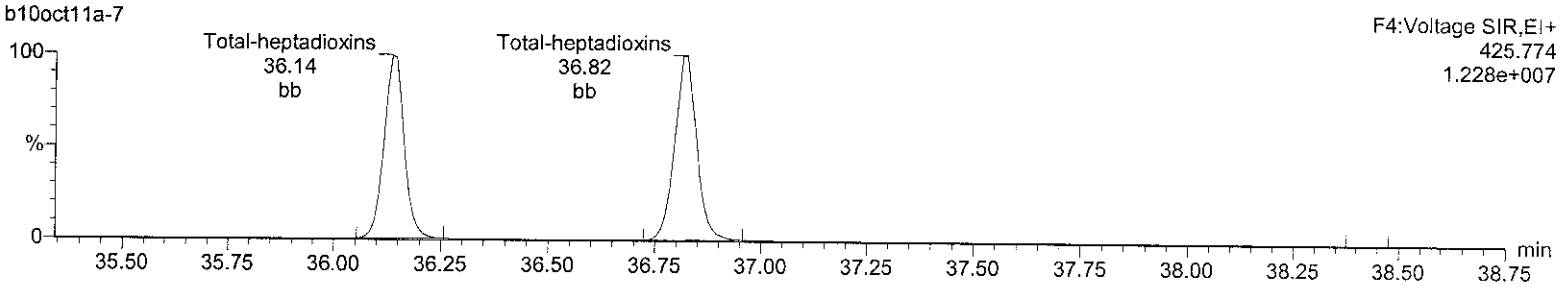
Last Altered: Tuesday, October 11, 2011 08:03:54 Eastern Standard Time
Printed: Tuesday, October 11, 2011 08:04:29 Eastern Standard Time

Name: b10oct11a-7, Date: 10-Oct-2011, Time: 17:47:44, ID: 12004344-1 MSD, Description: 19680, Job: HMS8290_1S, Task: HRP763_1, User: MJC

Total-heptadioxins



Total-heptadioxins



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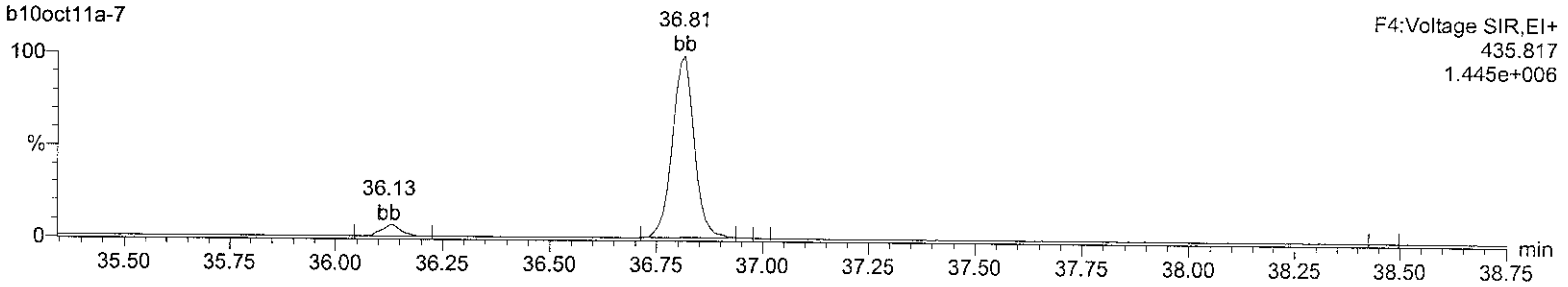
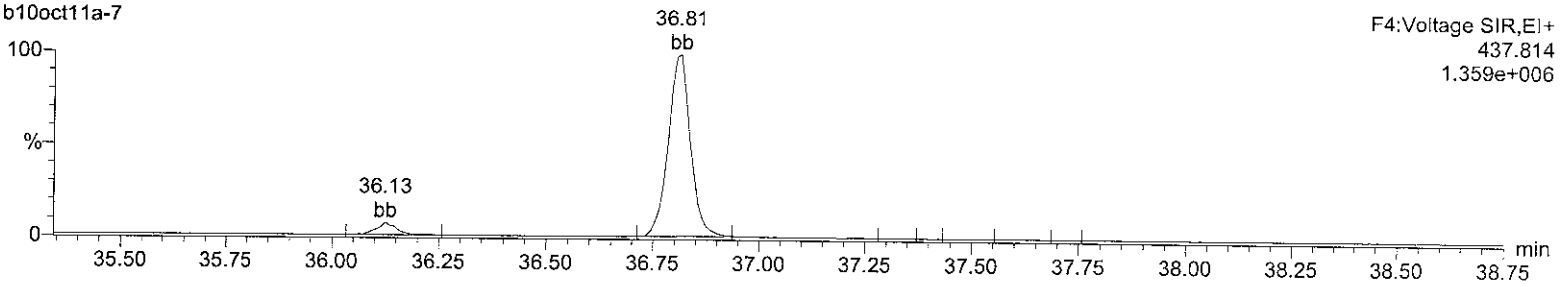
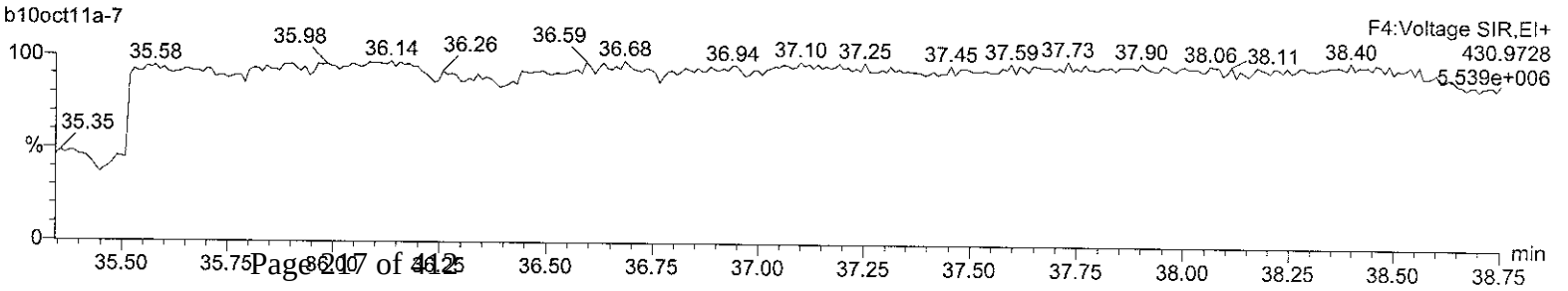


13C-1234678-HpCDD



Lock Mass F4



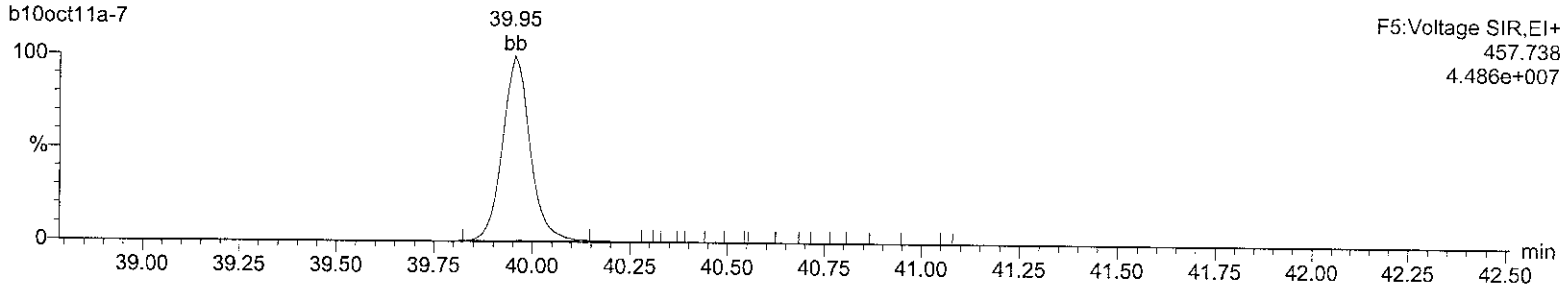
Quantify Sample Report **MassLynx 4.1**
Method 8290 Quantification Report

Dataset: C:\MassLynx\Default.pro\Sample Results\8290-b10oct11a.qld

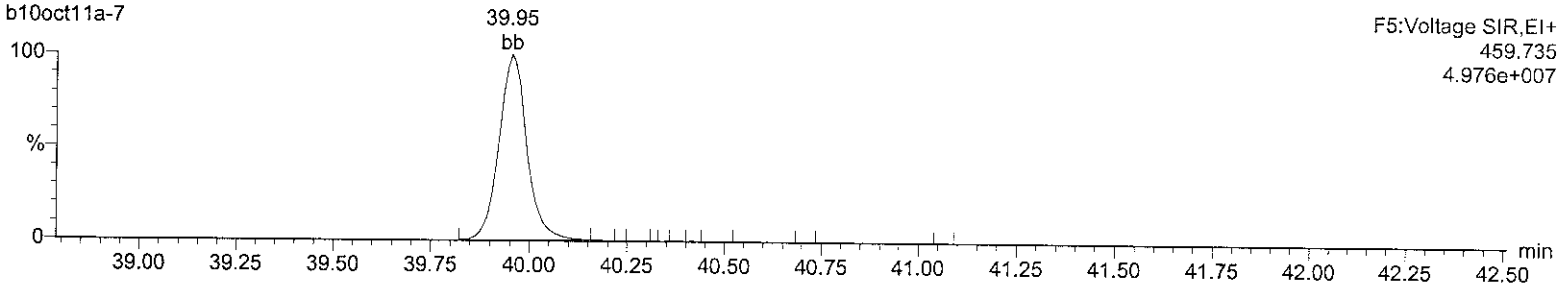
Last Altered: Tuesday, October 11, 2011 08:03:54 Eastern Standard Time
Printed: Tuesday, October 11, 2011 08:04:29 Eastern Standard Time

Name: b10oct11a-7, Date: 10-Oct-2011, Time: 17:47:44, ID: 12004344-1 MSD, Description: 19680, Job: HMS8290_1S, Task: HRP763_1, User: MJC

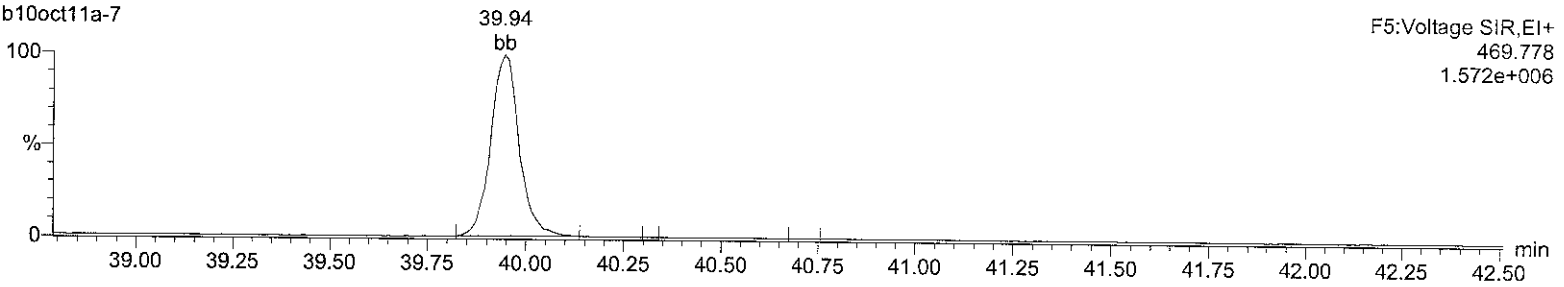
OCDD



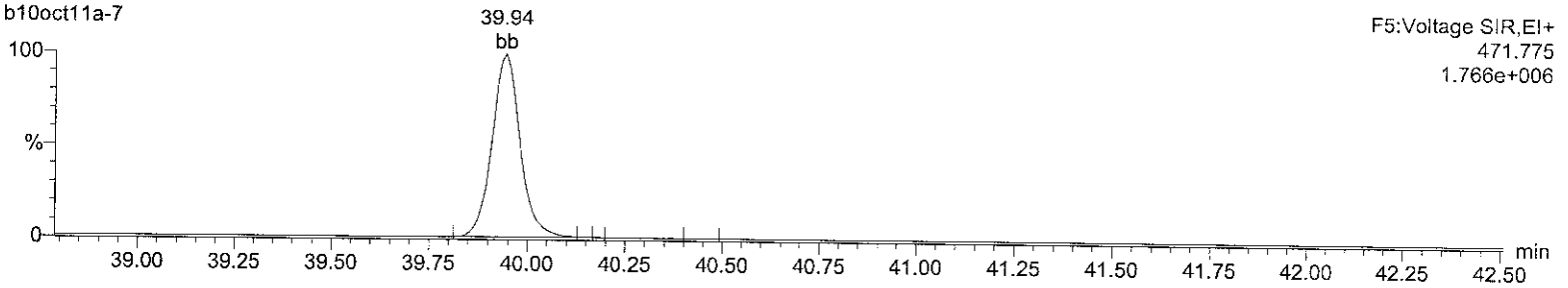
OCDD



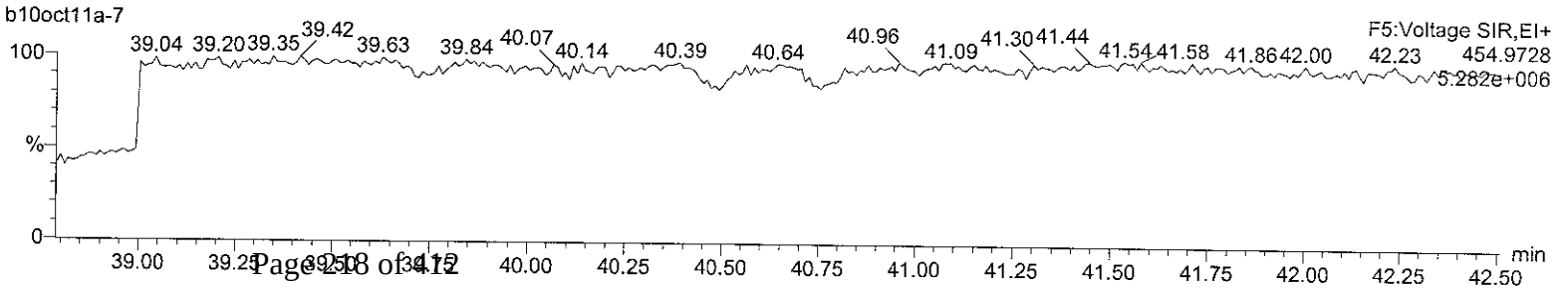
13C-OCDD



13C-OCDD



Lock Mass F5



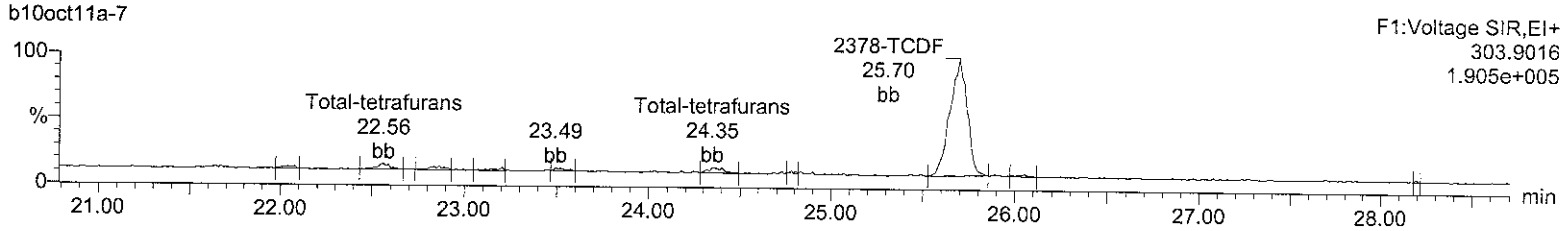
Quantify Sample Report **MassLynx 4.1**
Method 8290 Quantification Report

Dataset: C:\MassLynx\Default.pro\Sample Results\8290-b10oct11a.qld

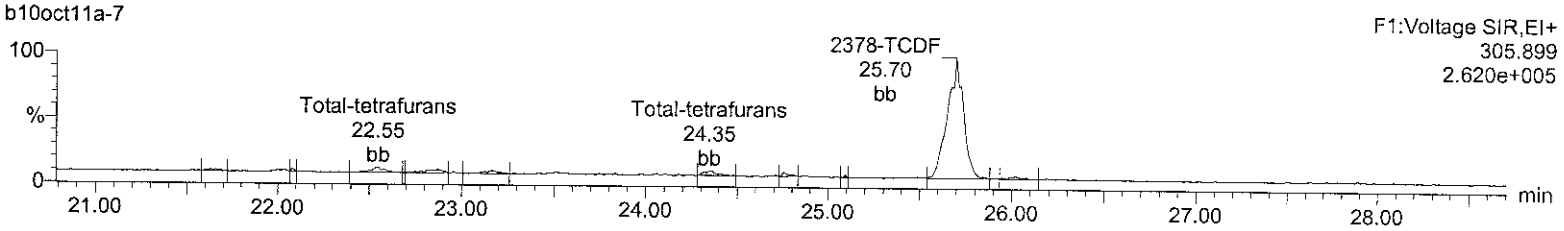
Last Altered: Tuesday, October 11, 2011 08:03:54 Eastern Standard Time
Printed: Tuesday, October 11, 2011 08:04:29 Eastern Standard Time

Name: b10oct11a-7, Date: 10-Oct-2011, Time: 17:47:44, ID: 12004344-1 MSD, Description: 19680, Job: HMS8290_1S, Task: HRP763_1, User: MJC

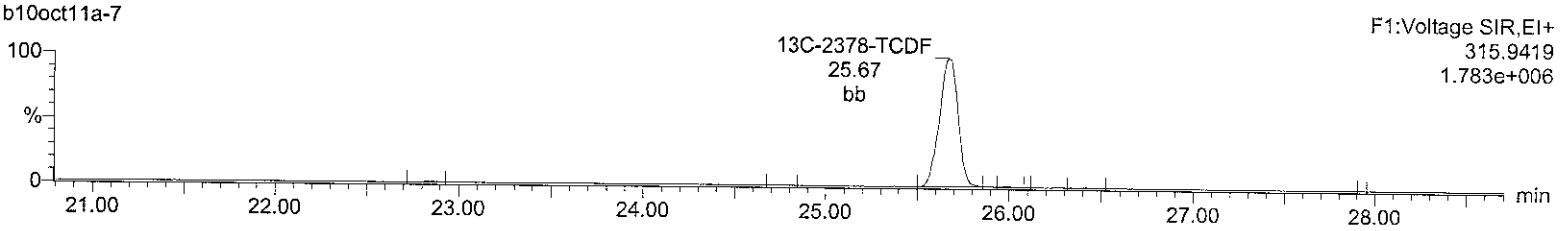
Total-tetrafurans
b10oct11a-7



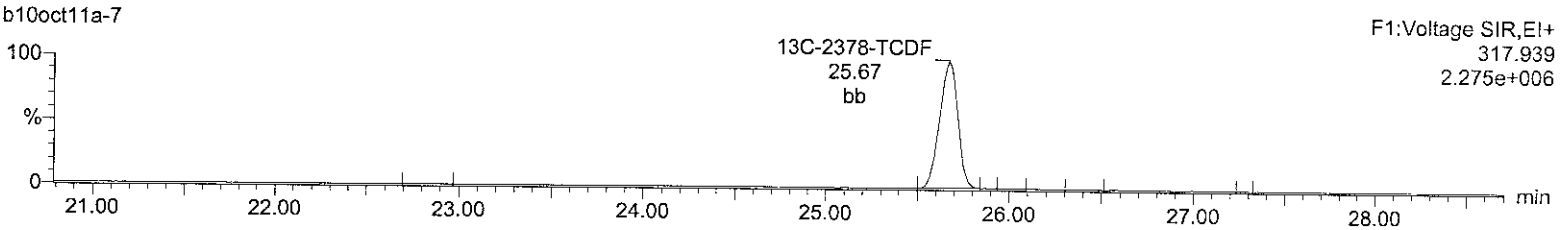
Total-tetrafurans
b10oct11a-7



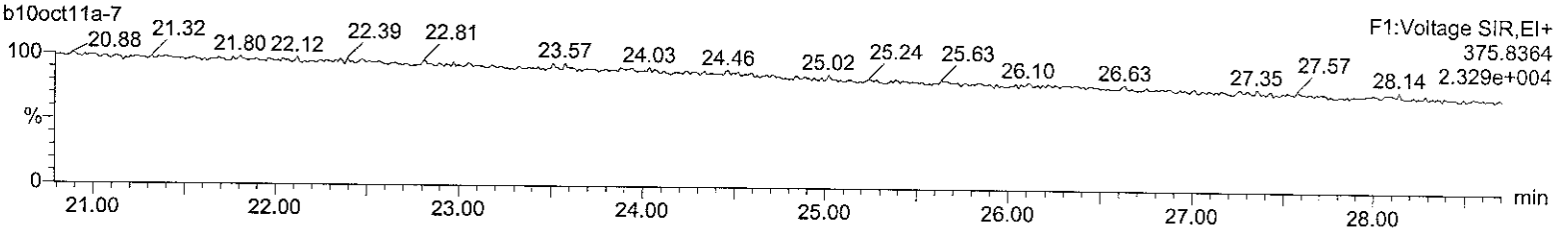
13C-2378-TCDF
b10oct11a-7



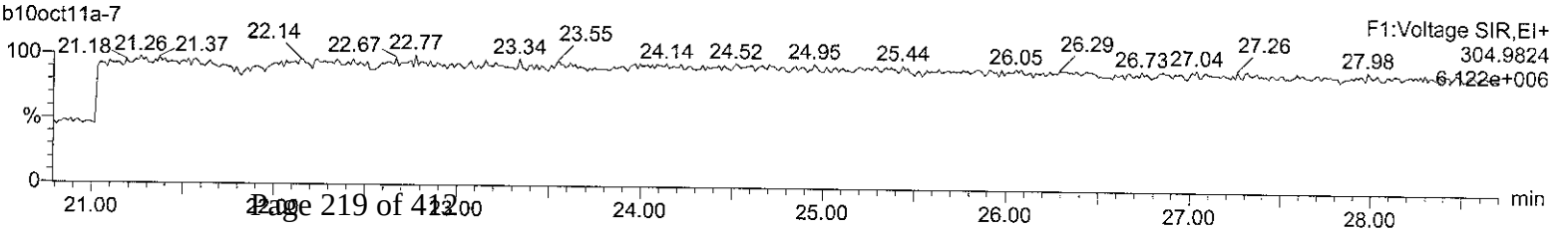
13C-2378-TCDF
b10oct11a-7



HxDPE
b10oct11a-7



Lock Mass F1
b10oct11a-7



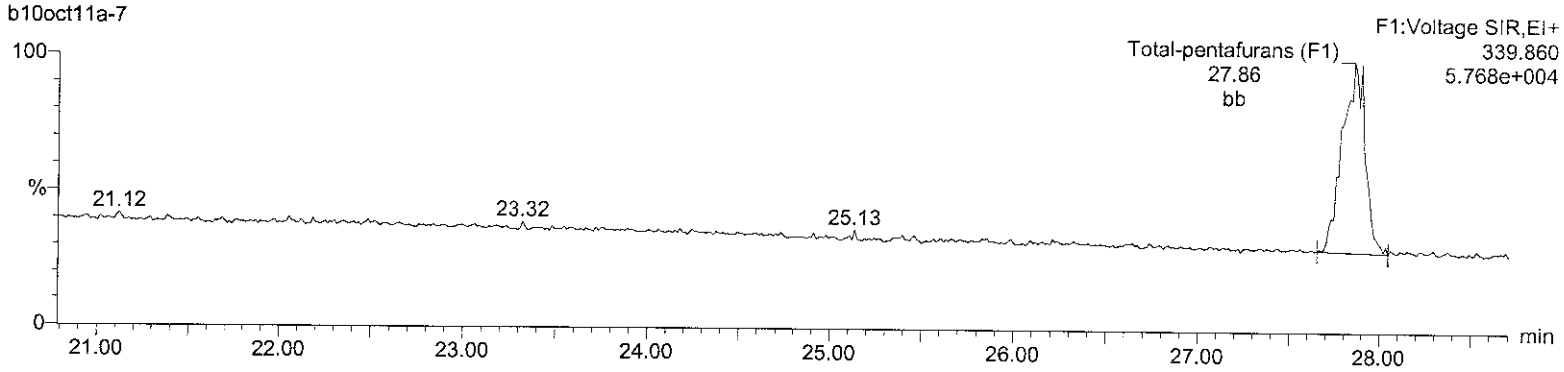
Quantify Sample Report **MassLynx 4.1**
Method 8290 Quantification Report

Dataset: C:\MassLynx\Default.pro\Sample Results\8290-b10oct11a.qld

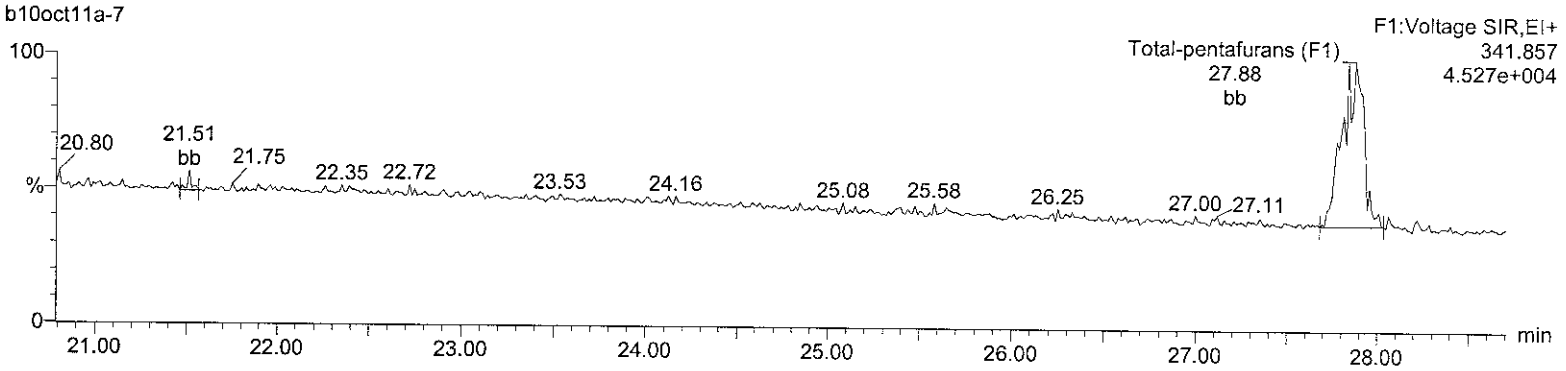
Last Altered: Tuesday, October 11, 2011 08:03:54 Eastern Standard Time
Printed: Tuesday, October 11, 2011 08:04:29 Eastern Standard Time

Name: b10oct11a-7, Date: 10-Oct-2011, Time: 17:47:44, ID: 12004344-1 MSD, Description: 19680, Job: HMS8290_1S, Task: HRP763_1, User: MJC

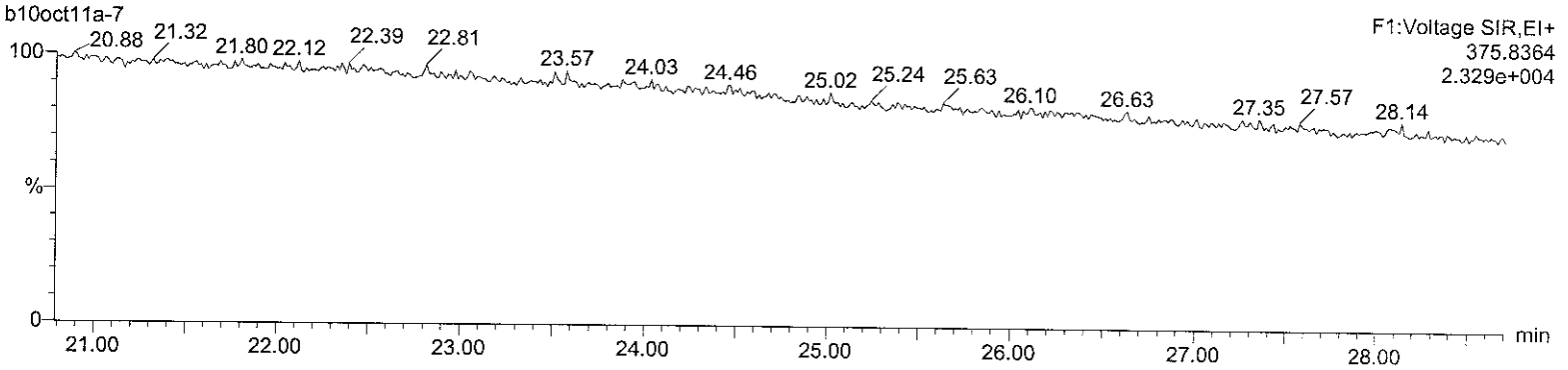
Total-pentafurans (F1)
b10oct11a-7



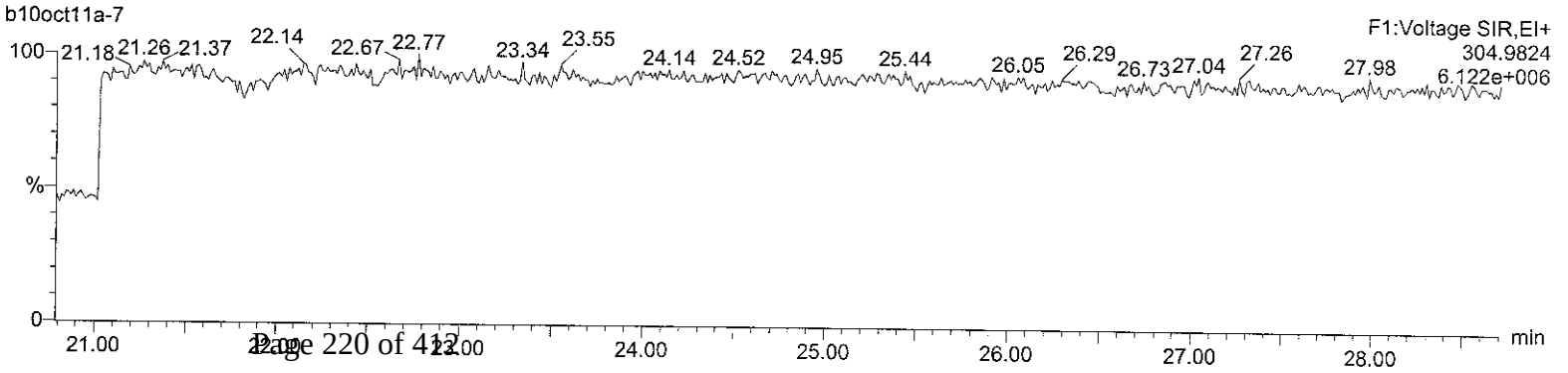
Total-pentafurans (F1)
b10oct11a-7



HxDPE
b10oct11a-7



Lock Mass F1
b10oct11a-7



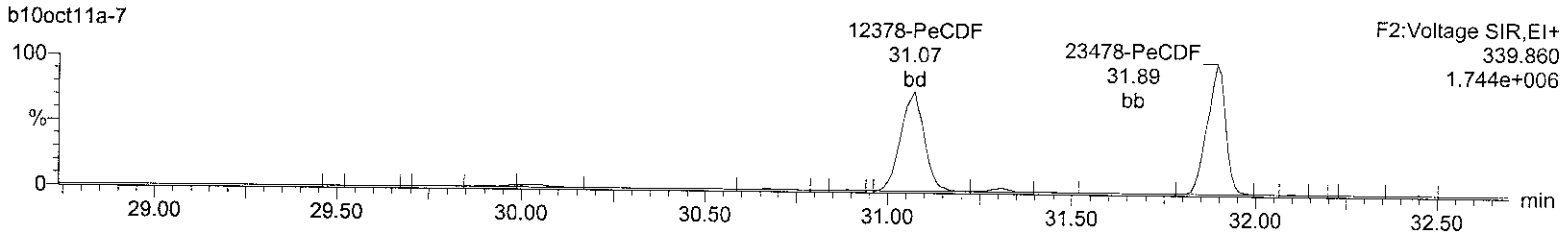
Quantify Sample Report **MassLynx 4.1**
Method 8290 Quantification Report

Dataset: C:\MassLynx\Default.pro\Sample Results\8290-b10oct11a.qld

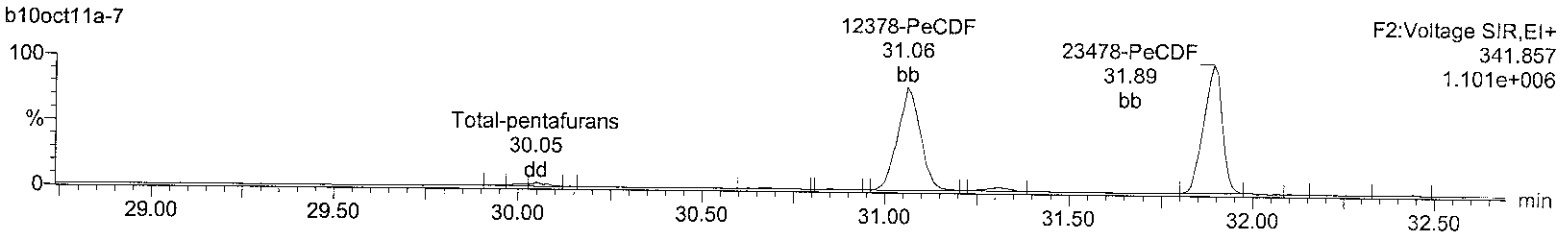
Last Altered: Tuesday, October 11, 2011 08:03:54 Eastern Standard Time
Printed: Tuesday, October 11, 2011 08:04:29 Eastern Standard Time

Name: b10oct11a-7, Date: 10-Oct-2011, Time: 17:47:44, ID: 12004344-1 MSD, Description: 19680, Job: HMS8290_1S, Task: HRP763_1, User: MJC

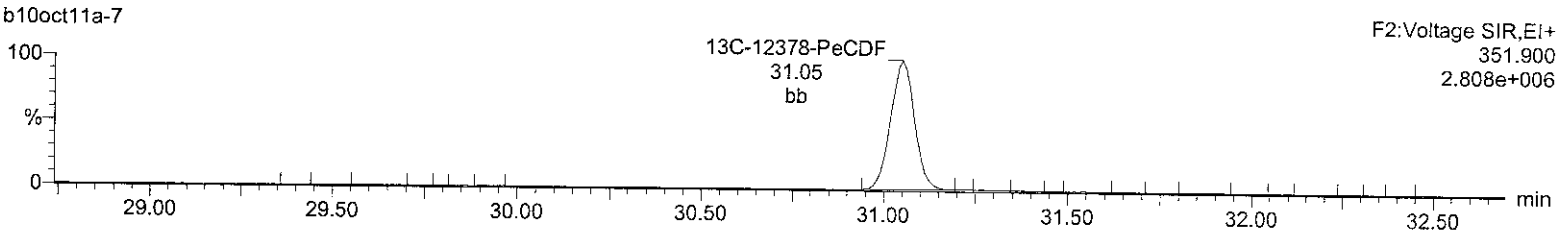
Total-pentafurans



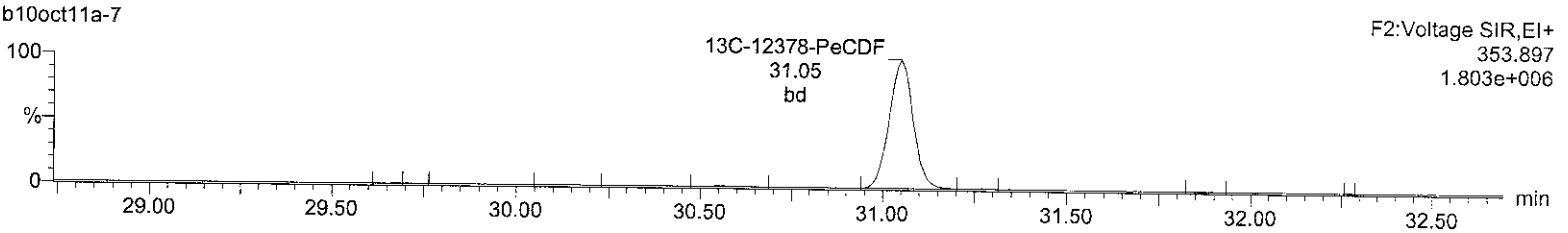
Total-pentafurans



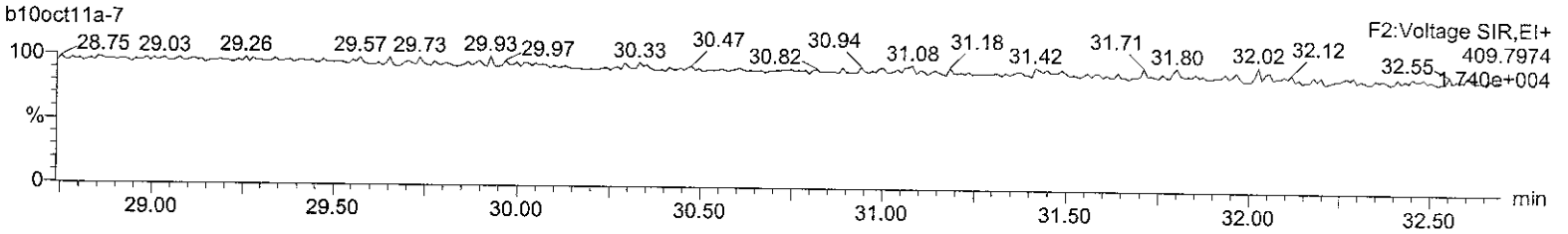
13C-12378-PeCDF



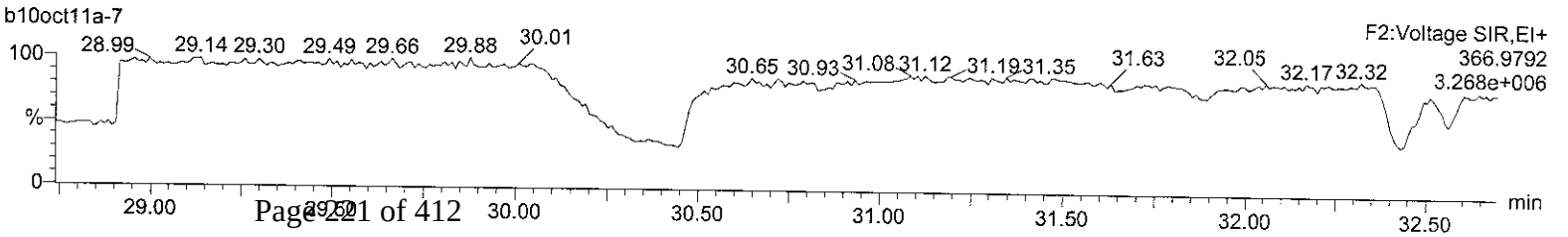
13C-12378-PeCDF



HpDPE



Lock Mass F2



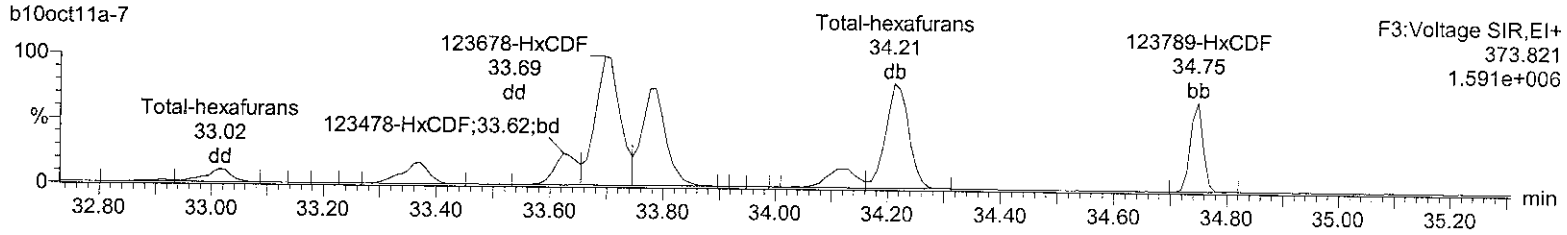
Quantify Sample Report **MassLynx 4.1**
Method 8290 Quantification Report

Dataset: C:\MassLynx\Default.pro\Sample Results\8290-b10oct11a.qld

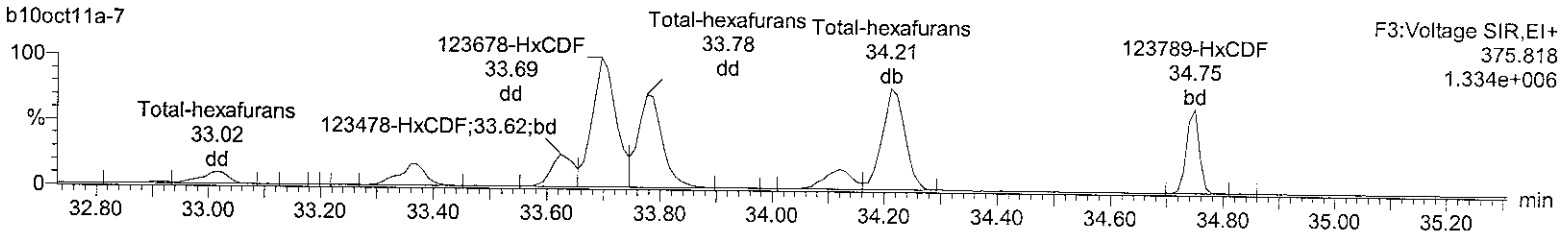
Last Altered: Tuesday, October 11, 2011 08:03:54 Eastern Standard Time
Printed: Tuesday, October 11, 2011 08:04:29 Eastern Standard Time

Name: b10oct11a-7, Date: 10-Oct-2011, Time: 17:47:44, ID: 12004344-1 MSD, Description: 19680, Job: HMS8290_1S, Task: HRP763_1, User: MJC

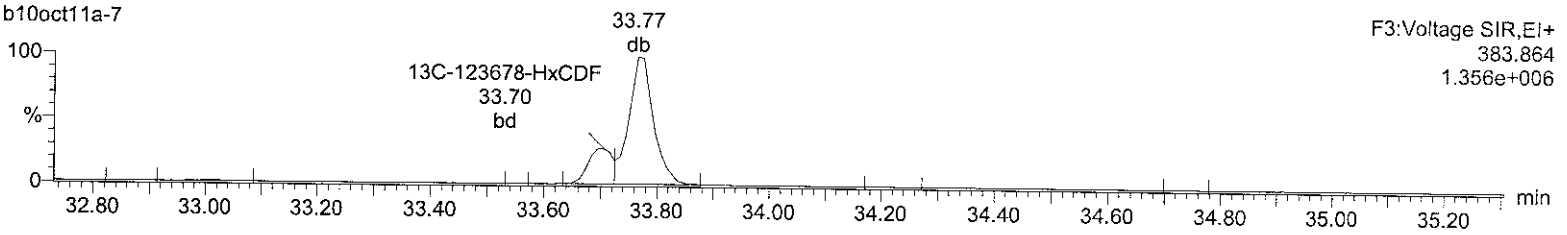
Total-hexafurans



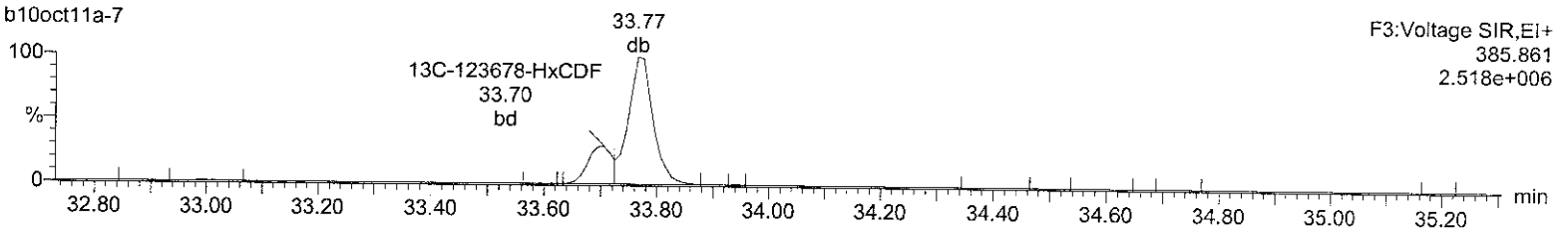
Total-hexafurans



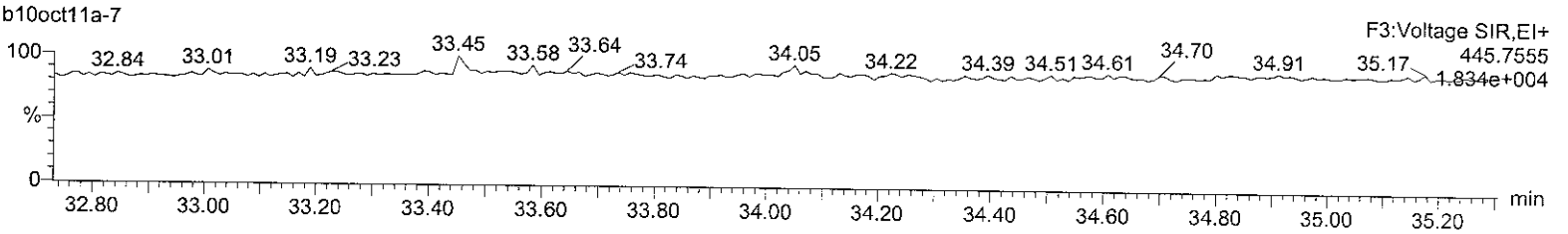
13C-123678-HxCDF



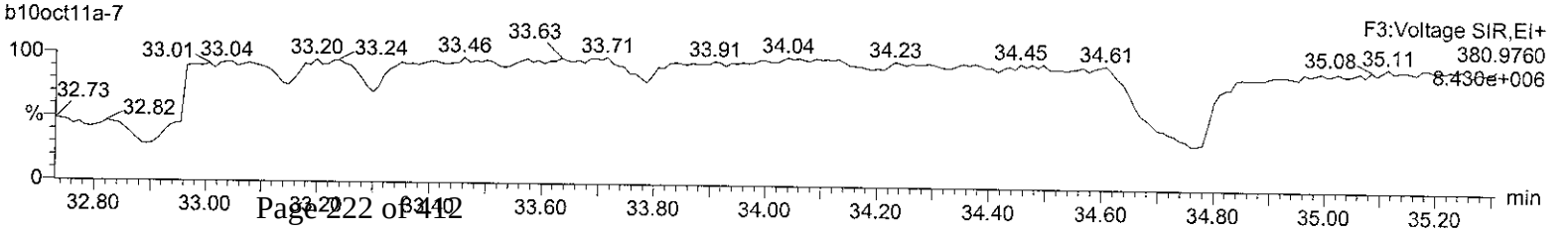
13C-123678-HxCDF



OcDPE



Lock Mass F3



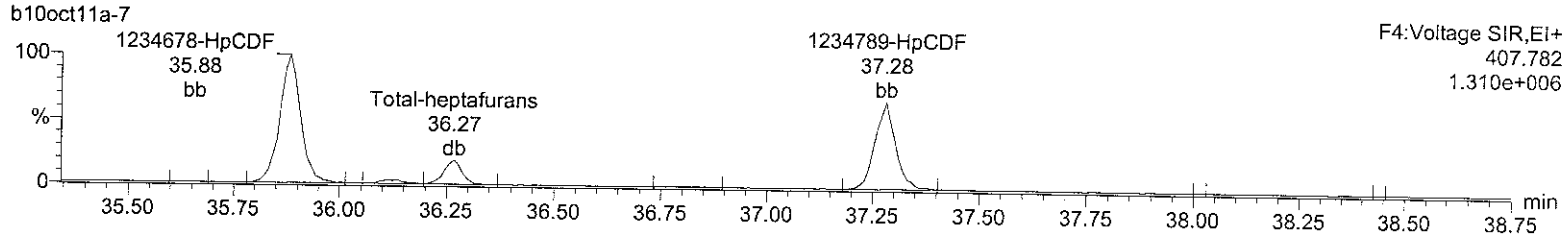
Quantify Sample Report **MassLynx 4.1**
Method 8290 Quantification Report

Dataset: C:\MassLynx\Default.pro\Sample Results\8290-b10oct11a.qld

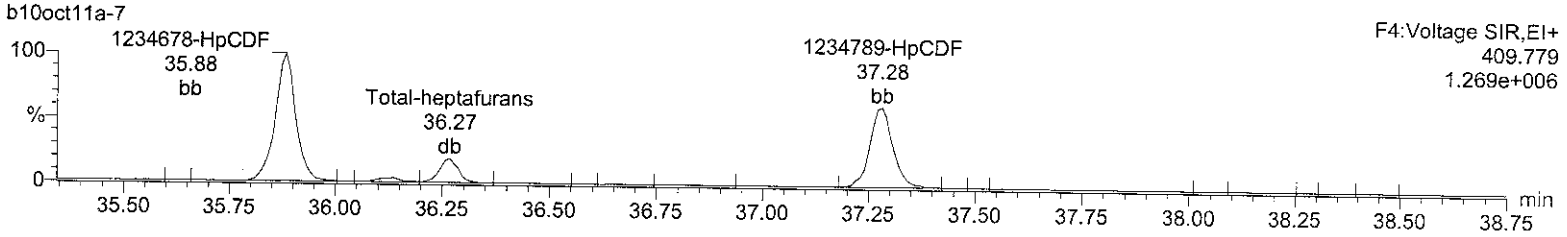
Last Altered: Tuesday, October 11, 2011 08:03:54 Eastern Standard Time
Printed: Tuesday, October 11, 2011 08:04:29 Eastern Standard Time

Name: b10oct11a-7, Date: 10-Oct-2011, Time: 17:47:44, ID: 12004344-1 MSD, Description: 19680, Job: HMS8290_1S, Task: HRP763_1, User: MJC

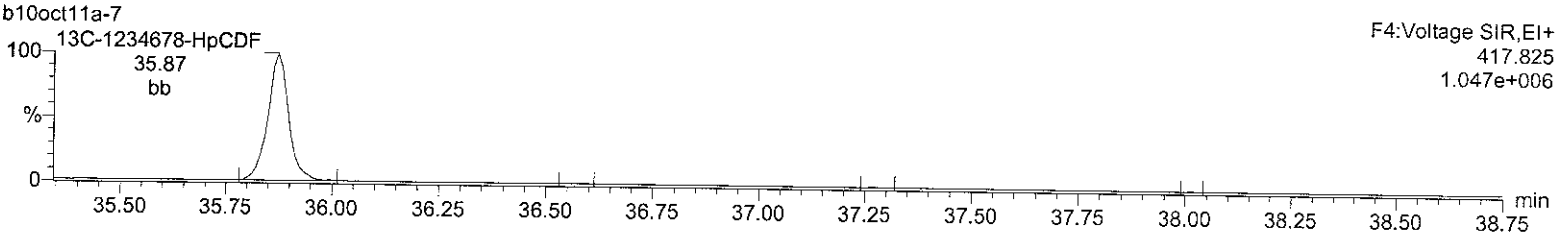
Total-heptafurans



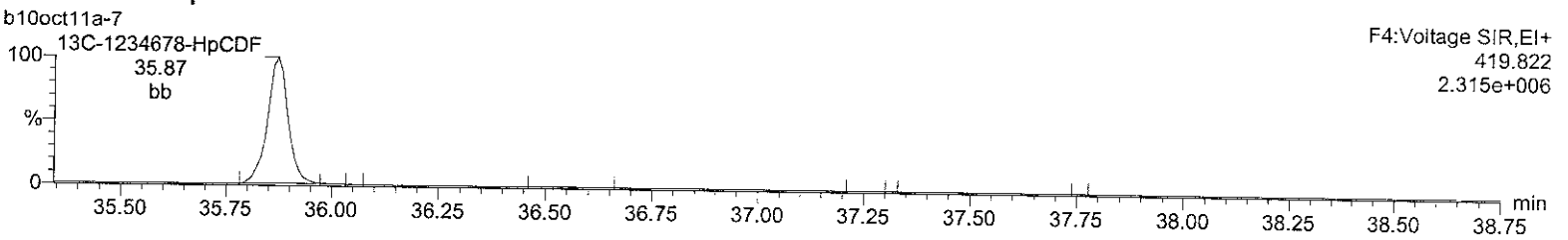
Total-heptafurans



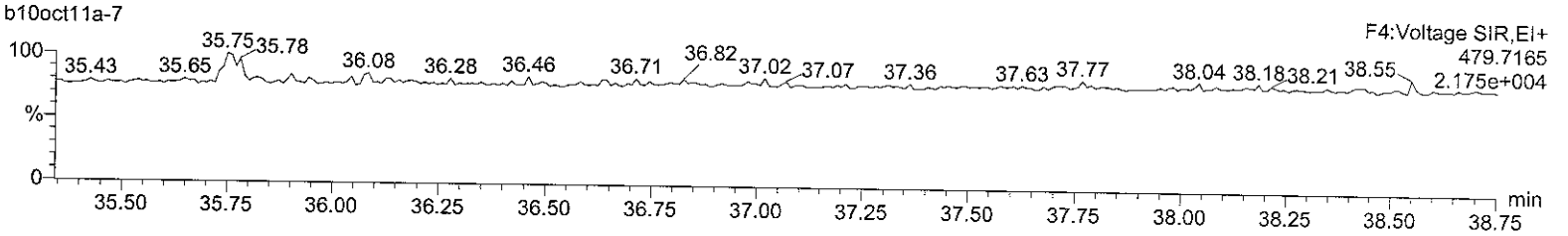
13C-1234678-HpCDF



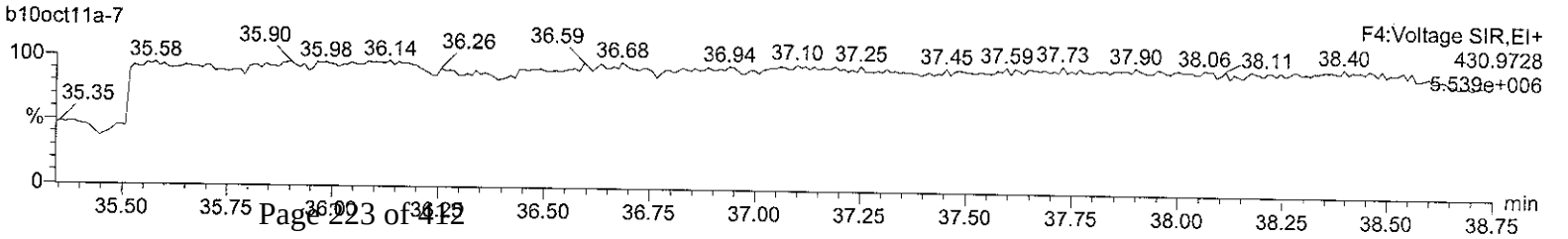
13C-1234678-HpCDF



NoDPE



Lock Mass F4



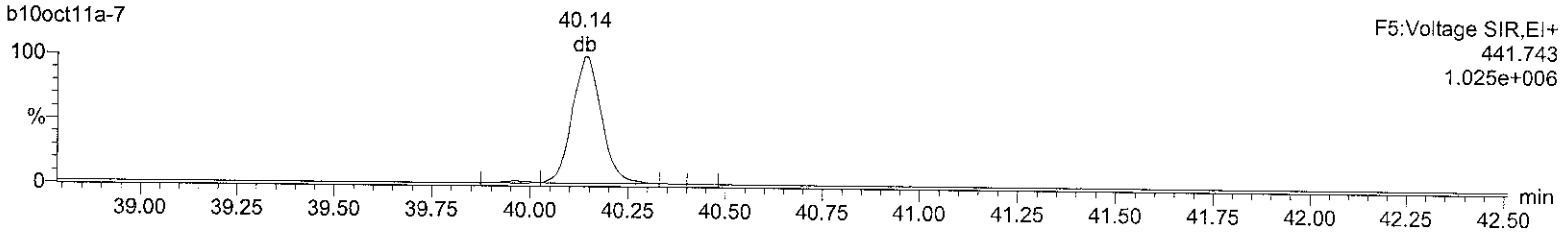
Quantify Sample Report **MassLynx 4.1**
Method 8290 Quantification Report

Dataset: C:\MassLynx\Default.pro\Sample Results\8290-b10oct11a.qld

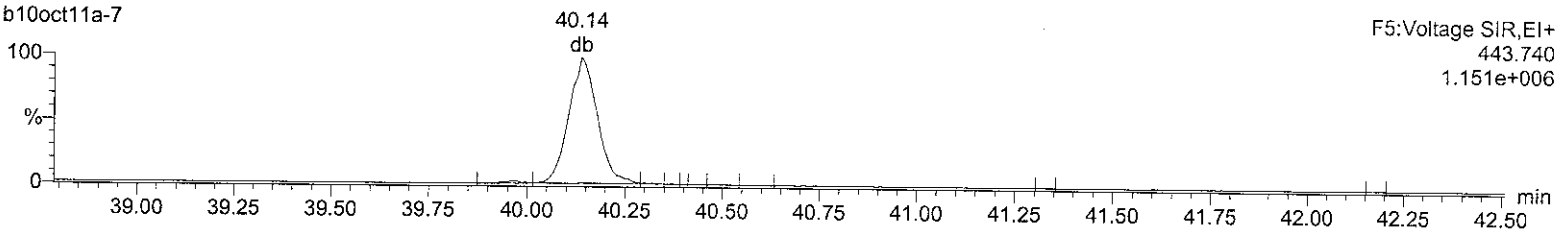
Last Altered: Tuesday, October 11, 2011 08:03:54 Eastern Standard Time
Printed: Tuesday, October 11, 2011 08:04:29 Eastern Standard Time

Name: b10oct11a-7, Date: 10-Oct-2011, Time: 17:47:44, ID: 12004344-1 MSD, Description: 19680, Job: HMS8290_1S, Task: HRP763_1, User: MJC

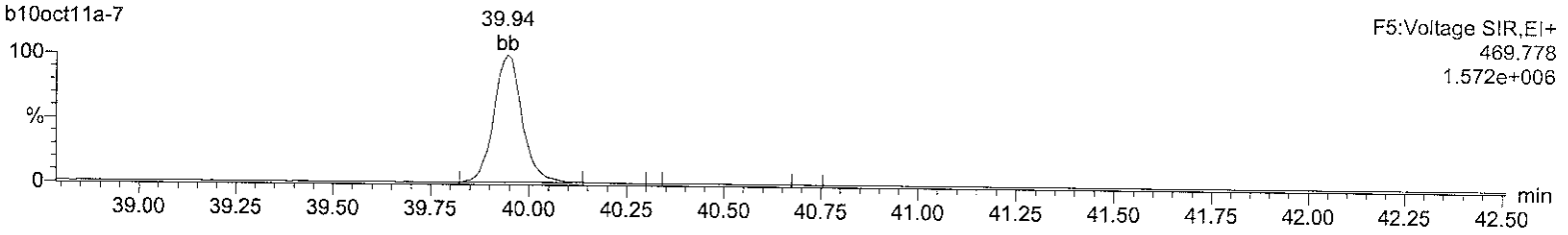
OCDF



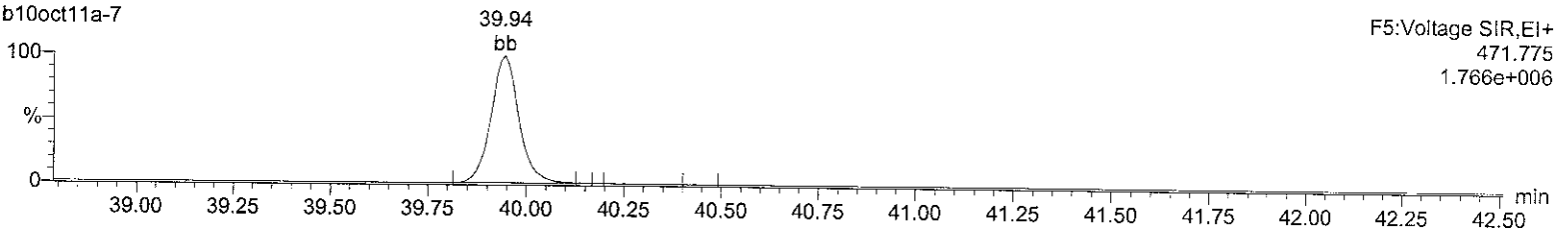
OCDF



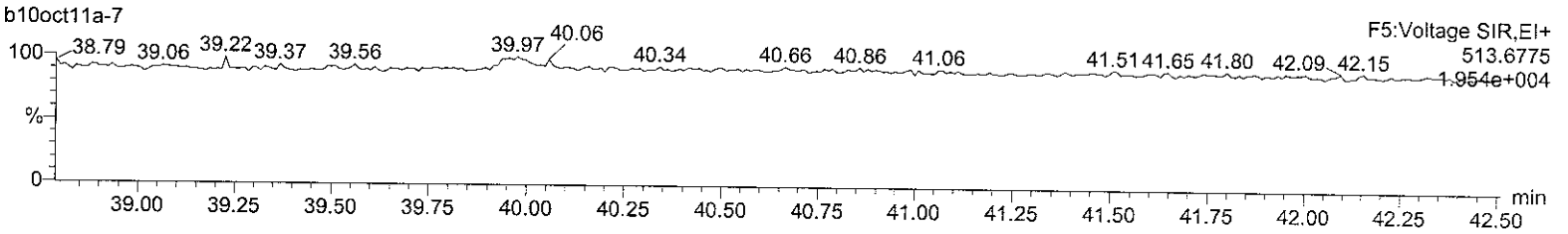
13C-OCDD



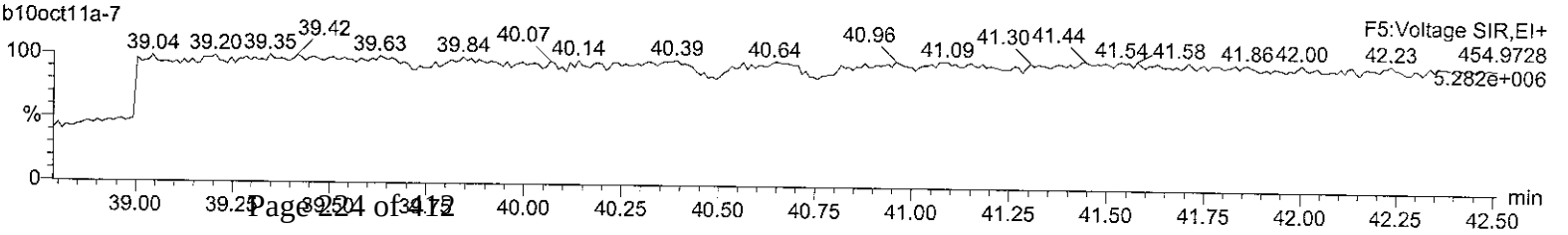
13C-OCDD



DeDPE



Lock Mass F5



Logbooks

Moisture LogBook

Batch: 19656
Analyst: ML
Date/Time: 03-OCT-2011
Procedure Code DRY WEIGHT
Procedure Description Dry Weight-Percent Moisture
Lab Sop:

Sample St	Sample Id	Rpd(%)
DUP	12004338	**7.509**

Sample ID	Instrument	Run Time	Container Wt	Initial Wt	Final Wt (g)	Net Initial Wt (g)	Net Final Wt (g)	Moisture (%)	Solids (%)	Equivalent Wt (g)
2818001	B1	16:57	1.03	8.12	7.2	7.09	6.17	12.976	87.024	11.49
2818002	B1	16:57	1.04	8.59	7.72	7.55	6.68	11.523	88.477	11.3
2818003	B1	16:57	1.01	9.3	8.01	8.29	7	15.561	84.439	11.84
2819021	B1	16:57	1	8.06	7.3	7.06	6.3	10.765	89.235	11.21
2819022	B1	16:57	1	8.72	7.83	7.72	6.83	11.528	88.472	11.3
2819023	B1	16:57	0.96	8	7.55	7.04	6.59	6.392	93.608	10.68
2819024	B1	16:57	0.99	9.7	8.87	8.71	7.88	9.529	90.471	11.05
2819025	B1	16:57	1.01	8.39	7.67	7.38	6.66	9.756	90.244	11.08
2819026	B1	16:57	0.98	9.44	8.87	8.46	7.89	6.738	93.262	10.72
2819027	B1	16:57	1	8.71	7.74	7.71	6.74	12.581	87.419	11.44
2819028	B1	16:57	1	8.35	7.52	7.35	6.52	11.293	88.707	11.27
2819029	B1	16:57	1.01	8.08	6.42	7.07	5.41	23.479	76.521	13.07
2822002	B1	16:57	1.03	8.02	7.62	6.99	6.59	5.722	94.278	10.61
2822003	B1	16:57	0.97	8.62	8.19	7.65	7.22	5.621	94.379	10.6
2822004	B1	16:57	1	8.05	7.2	7.05	6.2	12.057	87.943	11.37
2822005	B1	16:57	1.02	8.36	7.19	7.34	6.17	15.94	84.06	11.9
12004338	B1	16:57	1.01	9.66	8.45	8.65	7.44	13.988	86.012	11.63

Comments:

A) Result = (Net Initial - Net Final) /Net Initial * 100

Note: Aliquot is used for the determination of the effective MDL and PQL in LIMS

Prep Logbook

3540C Solid Extraction for Method 8290A

Batch ID: 19663 **Verified by:** _____

Analyst: Mike Larkins

Method: SW846 3540C

Lab SOP:

Instrument: Ohaus Scout Pro 400

Sample ID	Start Run Date	Aliquot (g)	ES Amount (uL)	ES Serial#	MX Amount (uL)	MX Serial#
12004342 MB	04-OCT-2011 15:00	10	40	WD111004-02 .05 ng/uL		
12004340 LCS	04-OCT-2011 15:00	10	40	WD111004-02 .05 ng/uL	40	WD111004-03 .005 ng/uL
12004341 LCSD	04-OCT-2011 15:00	10	40	WD111004-02 .05 ng/uL	40	WD111004-03 .005 ng/uL
2818001	04-OCT-2011 15:00	12.21	40	WD111004-02 .05 ng/uL		
12004343 MS (2818001)	04-OCT-2011 15:00	12.85	40	WD111004-02 .05 ng/uL	40	WD111004-03 .005 ng/uL
12004344 MSD (2818001)	04-OCT-2011 15:00	13.12	40	WD111004-02 .05 ng/uL	40	WD111004-03 .005 ng/uL
2818002	04-OCT-2011 15:00	11.37	40	WD111004-02 .05 ng/uL		
2818003	04-OCT-2011 15:00	13.25	40	WD111004-02 .05 ng/uL		
2822002	04-OCT-2011 15:00	11.38	40	WD111004-02 .05 ng/uL		
2822003	04-OCT-2011 15:00	11.73	40	WD111004-02 .05 ng/uL		
2822004	04-OCT-2011 15:00	11.74	40	WD111004-02 .05 ng/uL		
2822005	04-OCT-2011 15:00	11.95	40	WD111004-02 .05 ng/uL		

Type	Sample Id	Description	Serial Number	Spike Amt	Units
REAGENT		Glass beads	1085456-A	10	g
REAGENT		Sodium Sulfate	1089834-A	10	g
REAGENT		Teflon boiling chips	1091418-A.5	10	each
REAGENT		Toluene	1091452-A	350	L
REAGENT		Thimbles	1091725-A.1	1	each
REAGENT		Purified tridecane	1091808-C	500	uL

Comments:

Finish Date/Time: 05-OCT-11 08:00:00

Prep Logbook

3520C Aqueous Extraction for Method 8290A

Batch ID: 19665 **Verified by:** _____
Analyst: Chris Presnell
Method: SW846 3520C

Lab SOP:
Instrument: Ohaus Scout Pro 4000

Sample ID	Start Run Date	Aliquot (mL)	pH (su)	ES Amount (uL)	MX Amount (uL)	MX Serial#	ES Serial#
12004352 MB	04-OCT-2011 15:00	1000	5	40			WD111004-02 .05 ng/uL
12004352 MB	04-OCT-2011 15:00	1000	5	40			WD111004-02 .05 ng/uL
12004350 LCS	04-OCT-2011 15:00	1000	5	40	40	WD111002-03 .005 ng/uL	WD111004-02 .05 ng/uL
12004350 LCS	04-OCT-2011 15:00	1000	5	40	40	WD111002-03 .005 ng/uL	WD111004-02 .05 ng/uL
12004351 LCSD	04-OCT-2011 15:00	1000	5	40	40	WD111002-03 .005 ng/uL	WD111004-02 .05 ng/uL
12004351 LCSD	04-OCT-2011 15:00	1000	5	40	40	WD111002-03 .005 ng/uL	WD111004-02 .05 ng/uL
2778001	04-OCT-2011 15:00	924.7	7	40			WD111004-02 .05 ng/uL
2791001	04-OCT-2011 15:00	941.1	7	40			WD111004-02 .05 ng/uL
2798001	04-OCT-2011 15:00	953.5	7	40			WD111004-02 .05 ng/uL
2818004	04-OCT-2011 15:00	1043.5	7	40			WD111004-02 .05 ng/uL
2822001	04-OCT-2011 15:00	1047.8	7	40			WD111004-02 .05 ng/uL
2825001	04-OCT-2011 15:00	938.2	7	40			WD111004-02 .05 ng/uL
12004405 MB	04-OCT-2011 15:00	1000	5	40			WD111004-02 .05 ng/uL
12004405 MB	04-OCT-2011 15:00	1000	5	40			WD111004-02 .05 ng/uL
12004403 LCS	04-OCT-2011 15:00	1000	5	40	40	WD111002-03 .005 ng/uL	WD111004-02 .05 ng/uL
12004403 LCS	04-OCT-2011 15:00	1000	5	40	40	WD111002-03 .005 ng/uL	WD111004-02 .05 ng/uL
12004404 LCSD	04-OCT-2011 15:00	1000	5	40	40	WD111002-03 .005 ng/uL	WD111004-02 .05 ng/uL
12004404 LCSD	04-OCT-2011 15:00	1000	5	40	40	WD111002-03 .005 ng/uL	WD111004-02 .05 ng/uL

Type	Sample Id	Description	Serial Number	Spike Amt	Units
REAGENT		Sodium Sulfate	1089834-A	10	g
REAGENT		Methylene Chloride	1091852-A	250	L

Comments:

Finish Time: 05-OCT-2011 08:00:00

Prep Logbook

Cleanup Procedure for Solids

Batch ID: **19671** **Verified by:** _____

Analyst: **Mike Medwedeff**

Lab SOP:

Instrument: No analytical instrument

Sample ID	Start Run Date	Cleanup Type	Aliqout Analyzed (percent)
12004342 MB	05-OCT-2011 09:00	AB Silica Florisil	100
12004340 LCS	05-OCT-2011 09:00	AB Silica Florisil	100
12004341 LCSD	05-OCT-2011 09:00	AB Silica Florisil	100
2818001	05-OCT-2011 09:00	AB Silica Florisil	100
12004343 MS (2818001)	05-OCT-2011 09:00	AB Silica Florisil	100
12004344 MSD (2818001)	05-OCT-2011 09:00	AB Silica Florisil	100
2818002	05-OCT-2011 09:00	AB Silica Florisil	100
2818003	05-OCT-2011 09:00	AB Silica Florisil	100
2822002	05-OCT-2011 09:00	AB Silica Florisil	100
2822003	05-OCT-2011 09:00	AB Silica Florisil	100
2822004	05-OCT-2011 09:00	AB Silica Florisil	100
2822005	05-OCT-2011 09:00	AB Silica Florisil	100

Type	Sample Id	Description	Serial Number	Spike Amt	Units
REAGENT		Base silica	1089093-C.1	3	g
REAGENT		Sodium Sulfate	1089834-A	3	g
REAGENT		Glass Wool	1090637-A	1	each
REAGENT		Silica Gel	1091624-A	2	g
REAGENT		Acid silica	1091626-C	7	g
REAGENT		Methylene Chloride	1091852-A	100	mL
REAGENT		Hexane	1091893-A.1	150	mL
REAGENT		Florisil	1092136-A.2	1.5	g

Comments:

Prep Logbook

Cleanup Procedure for Liquids

Batch ID: **19673** **Verified by:** _____

Analyst: **Mike Medwedeff**

Lab SOP:

Instrument: No analytical instrument

Sample ID	Start Run Date	Cleanup Type	Aliqout Analyzed (percent)
12004352 MB	05-OCT-2011 09:00	AB Silica Florisil	100
12004350 LCS	05-OCT-2011 09:00	AB Silica Florisil	100
12004351 LCSD	05-OCT-2011 09:00	AB Silica Florisil	100
2778001	05-OCT-2011 09:00	AB Silica Florisil	100
2791001	05-OCT-2011 09:00	AB Silica Florisil	100
2798001	05-OCT-2011 09:00	AB Silica Florisil	100
2818004	05-OCT-2011 09:00	AB Silica Florisil	100
2822001	05-OCT-2011 09:00	AB Silica Florisil	100
2825001	05-OCT-2011 09:00	AB Silica Florisil	100
12004405 MB	05-OCT-2011 09:00	AB Silica Florisil	100
12004405 MB	05-OCT-2011 09:00	AB Silica Florisil	100
12004403 LCS	05-OCT-2011 09:00	AB Silica Florisil	100
12004403 LCS	05-OCT-2011 09:00	AB Silica Florisil	100
12004404 LCSD	05-OCT-2011 09:00	AB Silica Florisil	100
12004404 LCSD	05-OCT-2011 09:00	AB Silica Florisil	100

Type	Sample Id	Description	Serial Number	Spike Amt	Units
REAGENT		Base silica	1089093-C.1	3	g
REAGENT		Sodium Sulfate	1089834-A	3	g
REAGENT		Glass Wool	1090637-A	1	each
REAGENT		Silica Gel	1091624-A	2	g
REAGENT		Acid silica	1091626-C	7	g
REAGENT		Methylene Chloride	1091852-A	100	mL
REAGENT		Hexane	1091893-A.1	130	mL
REAGENT		Florisil	1092136-A.2	1.5	g

Comments:

Prep Logbook

Method 8290A HRMS Solid Analysis

Batch ID: 19680 **Verified by:** _____

Analyst: Matt Cash

Method: SW846 8290A

Lab SOP: CF-OA-E-002 REV# 9

Instrument: Waters Autospec Premier

Sample ID	Start Run Date	Final Volume (uL)	Prep Factor (Final Volume /Aliquot) (uL/g)	Dilution	Dilution Type	Injection Volume (uL)
12004340 LCS	10-OCT-2011 14:05	20	2	1	Internal	1
12004341 LCSD	10-OCT-2011 14:49	20	2	1	Internal	1
12004342 MB	10-OCT-2011 15:33	20	2	1	Internal	1
2818001	10-OCT-2011 16:18	20	1.638	1	Internal	1
12004343 MS (2818001)	10-OCT-2011 17:03	20	1.55642	1	Internal	1
12004344 MSD (2818001)	10-OCT-2011 17:47	20	1.52439	1	Internal	1
2818003	10-OCT-2011 18:32	20	1.50943	1	Internal	1
2822002	10-OCT-2011 19:17	20	1.75747	10	Internal	1
2822003	10-OCT-2011 20:01	20	1.70503	10	Internal	1
2822005	10-OCT-2011 20:46	20	1.67364	10	Internal	1
2822004	10-OCT-2011 21:31	20	1.70358	10	Internal	1
2818002	10-OCT-2011 22:15	20	1.75901	20	Internal	1

Type	Sample Id	Description	Serial Number	Spike Amt	Units
REAGENT		8290 Injection Standard	WD111004-05	20	uL
STANDARD		8290 Injection Standard	WD111004-05	20	uL

Comments:

Prep Logbook

HRMS 8290 Aqueous Analysis

Batch ID: 19685 **Verified by:** _____

Analyst: Matt Cash

Method: SW846 8290A

Lab SOP: CF-OA-E-002 REV# 9

Instrument: Waters Autospec Premier

Sample ID	Start Run Date	Final Volume (uL)	Prep Factor (Final Volume /Aliquot) (uL/uL)	Dilution	Dilution Type	Injection Volume (uL)
2818004	06-OCT-2011 09:20	20	1.92E-05	1	Internal	1
2822001	06-OCT-2011 09:20	20	1.91E-05	1	Internal	1
12004405 MB	06-OCT-2011 09:20	20	2.00E-05	1	Internal	1
12004403 LCS	06-OCT-2011 09:20	20	2.00E-05	1	Internal	1
12004404 LCSD	06-OCT-2011 09:20	20	2.00E-05	1	Internal	1

Type	Sample Id	Description	Serial Number	Spike Amt	Units
REAGENT		8290 Injection Standard	WD111006-02	20	uL
STANDARI		8290 Injection Standard	WD111006-02	20	uL

Comments:

Initial Calibration Data

HRP763_8290

Ple 2Nov10

Runlog Information

	Name	Instrument	Run Date	Procedure	Analyst	Batch ID	Sample Info	Injection Volume
•	b01nov10b-1	HRP763_1	01-NOV-2010 17:33	b01nov10b	Matt Cash		CS3WT UD100713-01.2	1 uL
•	b01nov10b-2	HRP763_1	01-NOV-2010 18:28	b01nov10b	Matt Cash		SB	1 uL
•	b01nov10b-3	HRP763_1	01-NOV-2010 19:16	b01nov10b	Matt Cash		CS0.5 UD101022-01	1 uL
•	b01nov10b-4	HRP763_1	01-NOV-2010 20:04	b01nov10b	Matt Cash		CS1 UD090323-02	1 uL
•	b01nov10b-5	HRP763_1	01-NOV-2010 20:53	b01nov10b	Matt Cash		CS2 UD090323-03	1 uL
•	b01nov10b-6	HRP763_1	01-NOV-2010 21:41	b01nov10b	Matt Cash		CS3 UD090323-04	1 uL
•	b01nov10b-7	HRP763_1	01-NOV-2010 22:29	b01nov10b	Matt Cash		CS4 UD101022-05	1 uL
•	b01nov10b-8	HRP763_1	01-NOV-2010 23:18	b01nov10b	Matt Cash		CS5 UD090323-06	1 uL
•	b01nov10b-9	HRP763_1	02-NOV-2010 00:06	b01nov10b	Matt Cash		SB	1 uL

HRP763 8290 ICAL B01NOV10B

Quantify Compound Summary Report **MassLynx 4.1**
Method 8290 ICAL Report

Dataset: C:\MassLynx\Default.pro\ICAL Results\8290-b01nov10b.qld

Last Altered: Tuesday, November 02, 2010 08:19:01 Eastern Standard Time
Printed: Tuesday, November 02, 2010 08:23:00 Eastern Standard Time

Method: Untitled 19 Oct 2010 08:35:07
Calibration: 02 Nov 2010 08:19:01

Compound name: 2378-TCDD
Response Factor: 1.0126
RRF SD: 0.0732305, Relative SD: 7.2319
Response type: Internal Std (Ref 18), Area * (IS Conc. / IS Area)
Curve type: RF

	Filename	Sample ID	Std. Conc	RT	pg/uL	RRF	AvgRRF	M
1	b01nov10b-3	CS0.5 UD101022-01	0.250	31.76	0.27	1.094	1.013	bb
2	b01nov10b-4	CS1 UD090323-02	0.500	31.76	0.46	0.926	1.013	bb
3	b01nov10b-5	CS2 UD090323-03	2.000	31.75	1.85	0.938	1.013	bd
4	b01nov10b-6	CS3 UD090323-04	10.000	31.76	9.81	0.994	1.013	bb
5	b01nov10b-7	CS4 UD101022-05	40.000	31.75	43.21	1.094	1.013	bb
6	b01nov10b-8	CS5 UD090323-06	200.000	31.76	203.29	1.029	1.013	bb

Compound name: 12378-PeCDD
Response Factor: 1.0319
RRF SD: 0.0411984, Relative SD: 3.99249
Response type: Internal Std (Ref 19), Area * (IS Conc. / IS Area)
Curve type: RF

	Filename	Sample ID	Std. Conc	RT	pg/uL	RRF	AvgRRF	M
1	b01nov10b-3	CS0.5 UD101022-01	1.250	34.54	1.21	0.998	1.032	bd
2	b01nov10b-4	CS1 UD090323-02	2.500	34.56	2.37	0.977	1.032	bb
3	b01nov10b-5	CS2 UD090323-03	10.000	34.55	10.02	1.034	1.032	bd
4	b01nov10b-6	CS3 UD090323-04	50.000	34.56	49.79	1.028	1.032	bb
5	b01nov10b-7	CS4 UD101022-05	200.000	34.55	207.68	1.072	1.032	bb
6	b01nov10b-8	CS5 UD090323-06	1000.000	34.55	1050.37	1.084	1.032	bb

Compound name: 123478-HxCDD
Response Factor: 0.896587
RRF SD: 0.0501524, Relative SD: 5.59371
Response type: Internal Std (Ref 20), Area * (IS Conc. / IS Area)
Curve type: RF

	Filename	Sample ID	Std. Conc	RT	pg/uL	RRF	AvgRRF	M
1	b01nov10b-3	CS0.5 UD101022-01	1.250	37.24	1.30	0.935	0.897	bd
2	b01nov10b-4	CS1 UD090323-02	2.500	37.23	2.39	0.856	0.897	bd
3	b01nov10b-5	CS2 UD090323-03	10.000	37.23	9.16	0.821	0.897	bd
4	b01nov10b-6	CS3 UD090323-04	50.000	37.24	50.13	0.899	0.897	bd
5	b01nov10b-7	CS4 UD101022-05	200.000	37.23	203.47	0.912	0.897	bd
6	b01nov10b-8	CS5 UD090323-06	1000.000	37.23	1066.50	0.956	0.897	bd

Quantify Compound Summary Report **MassLynx 4.1**
Method 8290 ICAL Report

Dataset: C:\MassLynx\Default.pro\ICAL Results\8290-b01nov10b.qld

Last Altered: Tuesday, November 02, 2010 08:19:01 Eastern Standard Time
Printed: Tuesday, November 02, 2010 08:23:00 Eastern Standard Time

Compound name: 123678-HxCDD
Response Factor: 0.967836
RRF SD: 0.0286259, Relative SD: 2.95772
Response type: Internal Std (Ref 20), Area * (IS Conc. / IS Area)
Curve type: RF

	Filename	Sample ID	Std. Conc	RT	pg/uL	RRF	AvgRRF	M
1	b01nov10b-3	CS0.5 UD101022-01	1.250	37.33	1.24	0.957	0.968	dd
2	b01nov10b-4	CS1 UD090323-02	2.500	37.33	2.41	0.932	0.968	dd
3	b01nov10b-5	CS2 UD090323-03	10.000	37.32	9.75	0.944	0.968	db
4	b01nov10b-6	CS3 UD090323-04	50.000	37.33	51.20	0.991	0.968	db
5	b01nov10b-7	CS4 UD101022-05	200.000	37.32	201.36	0.974	0.968	db
6	b01nov10b-8	CS5 UD090323-06	1000.000	37.32	1041.10	1.008	0.968	db

Compound name: 123789-HxCDD
Response Factor: 0.865341
RRF SD: 0.0374697, Relative SD: 4.33004
Response type: Internal Std (Ref 20), Area * (IS Conc. / IS Area)
Curve type: RF

	Filename	Sample ID	Std. Conc	RT	pg/uL	RRF	AvgRRF	M
1	b01nov10b-3	CS0.5 UD101022-01	1.250	37.57	1.25	0.864	0.865	bb
2	b01nov10b-4	CS1 UD090323-02	2.500	37.58	2.34	0.810	0.865	bb
3	b01nov10b-5	CS2 UD090323-03	10.000	37.57	9.73	0.842	0.865	bb
4	b01nov10b-6	CS3 UD090323-04	50.000	37.57	50.85	0.880	0.865	bd
5	b01nov10b-7	CS4 UD101022-05	200.000	37.57	202.43	0.876	0.865	bb
6	b01nov10b-8	CS5 UD090323-06	1000.000	37.57	1063.64	0.920	0.865	bb

Compound name: 1234678-HpCDD
Response Factor: 1.00484
RRF SD: 0.0579116, Relative SD: 5.76326
Response type: Internal Std (Ref 21), Area * (IS Conc. / IS Area)
Curve type: RF

	Filename	Sample ID	Std. Conc	RT	pg/uL	RRF	AvgRRF	M
1	b01nov10b-3	CS0.5 UD101022-01	1.250	40.76	1.19	0.958	1.005	M...
2	b01nov10b-4	CS1 UD090323-02	2.500	40.77	2.38	0.957	1.005	bd
3	b01nov10b-5	CS2 UD090323-03	10.000	40.75	9.41	0.946	1.005	bd
4	b01nov10b-6	CS3 UD090323-04	50.000	40.76	51.46	1.034	1.005	bb
5	b01nov10b-7	CS4 UD101022-05	200.000	40.76	210.04	1.055	1.005	bb
6	b01nov10b-8	CS5 UD090323-06	1000.000	40.75	1073.29	1.078	1.005	bb

Compound name: OCDD
Response Factor: 0.995746
RRF SD: 0.0753126, Relative SD: 7.56344
Response type: Internal Std (Ref 22), Area * (IS Conc. / IS Area)
Curve type: RF

$\overline{RF} = 1.00$

RSD = 6

	Filename	Sample ID	Std. Conc	RT	pg/uL	RRF	AvgRRF	M
1	b01nov10b-3	CS0.5 UD101022-01	2.500	45.19	2.32	0.924	0.996	bd
2	b01nov10b-4	CS1 UD090323-02	5.000	45.19	4.68	0.932	0.996	bd

Quantify Compound Summary Report **MassLynx 4.1**
Method 8290 ICAL Report

Dataset: C:\MassLynx\Default.pro\ICAL Results\8290-b01nov10b.qld

Last Altered: Tuesday, November 02, 2010 08:19:01 Eastern Standard Time
Printed: Tuesday, November 02, 2010 08:23:00 Eastern Standard Time

Compound name: OCDD

	Filename	Sample ID	Std. Conc	RT	pg/uL	RRF	AvgRRF	M
3	b01nov10b-5	CS2 UD090323-03	20.000	45.17	18.62	0.927	0.996	bd
4	b01nov10b-6	CS3 UD090323-04	100.000	45.19	104.54	1.041	0.996	bd
5	b01nov10b-7	CS4 UD101022-05	400.000	45.18	431.74	1.075	0.996	bd
6	b01nov10b-8	CS5 UD090323-06	2000.000	45.19	2158.82	1.075	0.996	bd

Compound name: 2378-TCDF
Response Factor: 0.983356
RRF SD: 0.0381153, Relative SD: 3.87604
Response type: Internal Std (Ref 23), Area * (IS Conc. / IS Area)
Curve type: RF

	Filename	Sample ID	Std. Conc	RT	pg/uL	RRF	AvgRRF	M
1	b01nov10b-3	CS0.5 UD101022-01	0.250	31.22	0.25	0.982	0.983	bb
2	b01nov10b-4	CS1 UD090323-02	0.500	31.22	0.47	0.932	0.983	bb
3	b01nov10b-5	CS2 UD090323-03	2.000	31.22	2.00	0.984	0.983	bb
4	b01nov10b-6	CS3 UD090323-04	10.000	31.22	10.21	1.004	0.983	bb
5	b01nov10b-7	CS4 UD101022-05	40.000	31.22	38.92	0.957	0.983	bb
6	b01nov10b-8	CS5 UD090323-06	200.000	31.22	211.98	1.042	0.983	bb

Compound name: 12378-PeCDF
Response Factor: 0.934223
RRF SD: 0.0345013, Relative SD: 3.69305
Response type: Internal Std (Ref 24), Area * (IS Conc. / IS Area)
Curve type: RF

	Filename	Sample ID	Std. Conc	RT	pg/uL	RRF	AvgRRF	M
1	b01nov10b-3	CS0.5 UD101022-01	1.250	33.72	1.18	0.882	0.934	bd
2	b01nov10b-4	CS1 UD090323-02	2.500	33.72	2.41	0.901	0.934	bd
3	b01nov10b-5	CS2 UD090323-03	10.000	33.72	10.09	0.943	0.934	bd
4	b01nov10b-6	CS3 UD090323-04	50.000	33.72	51.62	0.964	0.934	bd
5	b01nov10b-7	CS4 UD101022-05	200.000	33.72	203.70	0.951	0.934	bd
6	b01nov10b-8	CS5 UD090323-06	1000.000	33.72	1031.39	0.964	0.934	bd

Compound name: 23478-PeCDF
Response Factor: 0.91433
RRF SD: 0.0357945, Relative SD: 3.91484
Response type: Internal Std (Ref 24), Area * (IS Conc. / IS Area)
Curve type: RF

	Filename	Sample ID	Std. Conc	RT	pg/uL	RRF	AvgRRF	M
1	b01nov10b-3	CS0.5 UD101022-01	1.250	34.35	1.20	0.874	0.914	bd
2	b01nov10b-4	CS1 UD090323-02	2.500	34.35	2.37	0.866	0.914	bb
3	b01nov10b-5	CS2 UD090323-03	10.000	34.34	10.06	0.920	0.914	bb
4	b01nov10b-6	CS3 UD090323-04	50.000	34.35	50.98	0.932	0.914	bb
5	b01nov10b-7	CS4 UD101022-05	200.000	34.35	206.23	0.943	0.914	bb
6	b01nov10b-8	CS5 UD090323-06	1000.000	34.35	1039.68	0.951	0.914	bb

Quantify Compound Summary Report **MassLynx 4.1**
Method 8290 ICAL Report

Dataset: C:\MassLynx\Default.pro\ICAL Results\8290-b01nov10b.qld

Last Altered: Tuesday, November 02, 2010 08:19:01 Eastern Standard Time
Printed: Tuesday, November 02, 2010 08:23:00 Eastern Standard Time

Compound name: 123478-HxCDF
Response Factor: 0.908747
RRF SD: 0.0246049, Relative SD: 2.70757
Response type: Internal Std (Ref 25), Area * (IS Conc. / IS Area)
Curve type: RF

	Filename	Sample ID	Std. Conc	RT	pg/uL	RRF	AvgRRF	M
1	b01nov10b-3	CS0.5 UD101022-01	1.250	36.49	1.23	0.896	0.909	bd
2	b01nov10b-4	CS1 UD090323-02	2.500	36.49	2.45	0.891	0.909	bd
3	b01nov10b-5	CS2 UD090323-03	10.000	36.49	9.79	0.890	0.909	bd
4	b01nov10b-6	CS3 UD090323-04	50.000	36.50	49.28	0.896	0.909	bd
5	b01nov10b-7	CS4 UD101022-05	200.000	36.49	205.35	0.933	0.909	bd
6	b01nov10b-8	CS5 UD090323-06	1000.000	36.49	1041.71	0.947	0.909	bd

Compound name: 123678-HxCDF
Response Factor: 1.05753
RRF SD: 0.049877, Relative SD: 4.71634
Response type: Internal Std (Ref 25), Area * (IS Conc. / IS Area)
Curve type: RF

	Filename	Sample ID	Std. Conc	RT	pg/uL	RRF	AvgRRF	M
1	b01nov10b-3	CS0.5 UD101022-01	1.250	36.60	1.20	1.019	1.058	dd
2	b01nov10b-4	CS1 UD090323-02	2.500	36.60	2.35	0.994	1.058	dd
3	b01nov10b-5	CS2 UD090323-03	10.000	36.59	9.80	1.037	1.058	dd
4	b01nov10b-6	CS3 UD090323-04	50.000	36.60	50.47	1.068	1.058	dd
5	b01nov10b-7	CS4 UD101022-05	200.000	36.60	210.31	1.112	1.058	db
6	b01nov10b-8	CS5 UD090323-06	1000.000	36.60	1055.20	1.116	1.058	db

Compound name: 234678-HxCDF
Response Factor: 0.955669
RRF SD: 0.0509714, Relative SD: 5.33358
Response type: Internal Std (Ref 25), Area * (IS Conc. / IS Area)
Curve type: RF

	Filename	Sample ID	Std. Conc	RT	pg/uL	RRF	AvgRRF	M
1	b01nov10b-3	CS0.5 UD101022-01	1.250	37.11	1.23	0.940	0.956	bb
2	b01nov10b-4	CS1 UD090323-02	2.500	37.11	2.38	0.909	0.956	bd
3	b01nov10b-5	CS2 UD090323-03	10.000	37.10	9.63	0.920	0.956	bd
4	b01nov10b-6	CS3 UD090323-04	50.000	37.10	48.42	0.925	0.956	bd
5	b01nov10b-7	CS4 UD101022-05	200.000	37.10	210.80	1.007	0.956	bb
6	b01nov10b-8	CS5 UD090323-06	1000.000	37.10	1079.38	1.032	0.956	bd

Compound name: 123789-HxCDF
Response Factor: 0.791619
RRF SD: 0.0351231, Relative SD: 4.43687
Response type: Internal Std (Ref 25), Area * (IS Conc. / IS Area)
Curve type: RF

	Filename	Sample ID	Std. Conc	RT	pg/uL	RRF	AvgRRF	M
1	b01nov10b-3	CS0.5 UD101022-01	1.250	37.91	1.21	0.767	0.792	bd
2	b01nov10b-4	CS1 UD090323-02	2.500	37.92	2.40	0.759	0.792	bb

Quantify Compound Summary Report **MassLynx 4.1**
Method 8290 ICAL Report

Dataset: C:\MassLynx\Default.pro\ICAL Results\8290-b01nov10b.qld

Last Altered: Tuesday, November 02, 2010 08:19:01 Eastern Standard Time
Printed: Tuesday, November 02, 2010 08:23:00 Eastern Standard Time

Compound name: 123789-HxCDF

	Filename	Sample ID	Std. Conc	RT	pg/uL	RRF	AvgRRF	M
3	b01nov10b-5	CS2 UD090323-03	10.000	37.90	9.88	0.782	0.792	bd
4	b01nov10b-6	CS3 UD090323-04	50.000	37.91	48.59	0.769	0.792	bd
5	b01nov10b-7	CS4 UD101022-05	200.000	37.91	211.49	0.837	0.792	bb
6	b01nov10b-8	CS5 UD090323-06	1000.000	37.91	1054.67	0.835	0.792	bb

Compound name: 1234678-HpCDF
Response Factor: 1.27673
RRF SD: 0.0736486, Relative SD: 5.76852
Response type: Internal Std (Ref 26), Area * (IS Conc. / IS Area)
Curve type: RF

	Filename	Sample ID	Std. Conc	RT	pg/uL	RRF	AvgRRF	M
1	b01nov10b-3	CS0.5 UD101022-01	1.250	39.45	1.17	1.190	1.277	bd
2	b01nov10b-4	CS1 UD090323-02	2.500	39.45	2.34	1.195	1.277	bb
3	b01nov10b-5	CS2 UD090323-03	10.000	39.44	9.83	1.256	1.277	bd
4	b01nov10b-6	CS3 UD090323-04	50.000	39.45	52.41	1.338	1.277	bb
5	b01nov10b-7	CS4 UD101022-05	200.000	39.45	208.03	1.328	1.277	bb
6	b01nov10b-8	CS5 UD090323-06	1000.000	39.45	1060.63	1.354	1.277	bb

Compound name: 1234789-HpCDF
Response Factor: 0.930207
RRF SD: 0.0563113, Relative SD: 6.05363
Response type: Internal Std (Ref 26), Area * (IS Conc. / IS Area)
Curve type: RF

	Filename	Sample ID	Std. Conc	RT	pg/uL	RRF	AvgRRF	M
1	b01nov10b-3	CS0.5 UD101022-01	1.250	41.46	1.20	0.894	0.930	bd
2	b01nov10b-4	CS1 UD090323-02	2.500	41.46	2.30	0.854	0.930	bd
3	b01nov10b-5	CS2 UD090323-03	10.000	41.45	9.66	0.898	0.930	bd
4	b01nov10b-6	CS3 UD090323-04	50.000	41.46	51.34	0.955	0.930	bd
5	b01nov10b-7	CS4 UD101022-05	200.000	41.46	210.87	0.981	0.930	bd
6	b01nov10b-8	CS5 UD090323-06	1000.000	41.46	1073.17	0.998	0.930	bb

Compound name: OCDF
Response Factor: 1.23238
RRF SD: 0.132391, Relative SD: 10.7427
Response type: Internal Std (Ref 22), Area * (IS Conc. / IS Area)
Curve type: RF

	Filename	Sample ID	Std. Conc	RT	pg/uL	RRF	AvgRRF	M
1	b01nov10b-3	CS0.5 UD101022-01	2.500	45.50	2.31	1.140	1.232	M...
2	b01nov10b-4	CS1 UD090323-02	5.000	45.51	4.33	1.066	1.232	bd
3	b01nov10b-5	CS2 UD090323-03	20.000	45.50	18.73	1.154	1.232	bd
4	b01nov10b-6	CS3 UD090323-04	100.000	45.52	103.43	1.275	1.232	bd
5	b01nov10b-7	CS4 UD101022-05	400.000	45.51	452.77	1.395	1.232	bd
6	b01nov10b-8	CS5 UD090323-06	2000.000	45.51	2213.28	1.364	1.232	bb

Quantify Compound Summary Report **MassLynx 4.1**
Method 8290 ICAL Report

Dataset: C:\MassLynx\Default.pro\ICAL Results\8290-b01nov10b.qld

Last Altered: Tuesday, November 02, 2010 08:19:01 Eastern Standard Time
Printed: Tuesday, November 02, 2010 08:23:00 Eastern Standard Time

Compound name: 13C-2378-TCDD
Response Factor: 1.11963
RRF SD: 0.0658623, Relative SD: 5.88249
Response type: Internal Std (Ref 27), Area * (IS Conc. / IS Area)
Curve type: RF

	Filename	Sample ID	Std. Conc	RT	pg/uL	RRF	AvgRRF	M
1	b01nov10b-3	CS0.5 UD101022-01	100.000	31.75	93.00	1.041	1.120	bb
2	b01nov10b-4	CS1 UD090323-02	100.000	31.75	102.23	1.145	1.120	bb
3	b01nov10b-5	CS2 UD090323-03	100.000	31.73	102.80	1.151	1.120	bb
4	b01nov10b-6	CS3 UD090323-04	100.000	31.75	94.51	1.058	1.120	bb
5	b01nov10b-7	CS4 UD101022-05	100.000	31.73	98.57	1.104	1.120	bb
6	b01nov10b-8	CS5 UD090323-06	100.000	31.73	108.89	1.219	1.120	bb

Compound name: 13C-12378-PeCDD
Response Factor: 0.95005
RRF SD: 0.0811964, Relative SD: 8.54654
Response type: Internal Std (Ref 27), Area * (IS Conc. / IS Area)
Curve type: RF

	Filename	Sample ID	Std. Conc	RT	pg/uL	RRF	AvgRRF	M
1	b01nov10b-3	CS0.5 UD101022-01	100.000	34.53	95.21	0.905	0.950	bb
2	b01nov10b-4	CS1 UD090323-02	100.000	34.54	93.08	0.884	0.950	bb
3	b01nov10b-5	CS2 UD090323-03	100.000	34.54	94.30	0.896	0.950	bb
4	b01nov10b-6	CS3 UD090323-04	100.000	34.55	99.74	0.948	0.950	bd
5	b01nov10b-7	CS4 UD101022-05	100.000	34.54	101.57	0.965	0.950	bb
6	b01nov10b-8	CS5 UD090323-06	100.000	34.53	116.10	1.103	0.950	bb

Compound name: 13C-123678-HxCDD
Response Factor: 1.1118
RRF SD: 0.0424519, Relative SD: 3.8183
Response type: Internal Std (Ref 28), Area * (IS Conc. / IS Area)
Curve type: RF

	Filename	Sample ID	Std. Conc	RT	pg/uL	RRF	AvgRRF	M
1	b01nov10b-3	CS0.5 UD101022-01	100.000	37.31	94.94	1.056	1.112	db
2	b01nov10b-4	CS1 UD090323-02	100.000	37.32	98.33	1.093	1.112	db
3	b01nov10b-5	CS2 UD090323-03	100.000	37.31	97.21	1.081	1.112	dd
4	b01nov10b-6	CS3 UD090323-04	100.000	37.32	103.32	1.149	1.112	db
5	b01nov10b-7	CS4 UD101022-05	100.000	37.31	104.90	1.166	1.112	db
6	b01nov10b-8	CS5 UD090323-06	100.000	37.31	101.30	1.126	1.112	db

Compound name: 13C-1234678-HpCDD
Response Factor: 0.800607
RRF SD: 0.0273231, Relative SD: 3.4128
Response type: Internal Std (Ref 28), Area * (IS Conc. / IS Area)
Curve type: RF

	Filename	Sample ID	Std. Conc	RT	pg/uL	RRF	AvgRRF	M
1	b01nov10b-3	CS0.5 UD101022-01	100.000	40.74	100.11	0.801	0.801	bb
2	b01nov10b-4	CS1 UD090323-02	100.000	40.74	98.31	0.787	0.801	bd

Quantify Compound Summary Report **MassLynx 4.1**
Method 8290 ICAL Report

Dataset: C:\MassLynx\Default.pro\ICAL Results\8290-b01nov10b.qld

Last Altered: Tuesday, November 02, 2010 08:19:01 Eastern Standard Time
Printed: Tuesday, November 02, 2010 08:23:00 Eastern Standard Time

Compound name: 13C-1234678-HpCDD

	Filename	Sample ID	Std. Conc	RT	pg/uL	RRF	AvgRRF	M
3	b01nov10b-5	CS2 UD090323-03	100.000	40.74	94.03	0.753	0.801	bd
4	b01nov10b-6	CS3 UD090323-04	100.000	40.75	101.82	0.815	0.801	bd
5	b01nov10b-7	CS4 UD101022-05	100.000	40.74	102.86	0.823	0.801	bd
6	b01nov10b-8	CS5 UD090323-06	100.000	40.74	102.87	0.824	0.801	bb

Compound name: 13C-OCDD
Response Factor: 0.668312
RRF SD: 0.0489064, Relative SD: 7.3179 ✓
Response type: Internal Std (Ref 28), Area * (IS Conc. / IS Area)
Curve type: RF

	Filename	Sample ID	Std. Conc	RT	pg/uL	RRF	AvgRRF	M
1	b01nov10b-3	CS0.5 UD101022-01	200.000	45.17	190.53	0.637	0.668	bd
2	b01nov10b-4	CS1 UD090323-02	200.000	45.17	190.95	0.638	0.668	bd
3	b01nov10b-5	CS2 UD090323-03	200.000	45.16	184.94	0.618	0.668	bd
4	b01nov10b-6	CS3 UD090323-04	200.000	45.17	201.32	0.673	0.668	bd
5	b01nov10b-7	CS4 UD101022-05	200.000	45.16	207.46	0.693	0.668	bd
6	b01nov10b-8	CS5 UD090323-06	200.000	45.17	224.80	0.751	0.668	bd

Compound name: 13C-2378-TCDF
Response Factor: 1.82115
RRF SD: 0.042666, Relative SD: 2.34281 ✓
Response type: Internal Std (Ref 27), Area * (IS Conc. / IS Area)
Curve type: RF

	Filename	Sample ID	Std. Conc	RT	pg/uL	RRF	AvgRRF	M
1	b01nov10b-3	CS0.5 UD101022-01	100.000	31.21	98.53	1.794	1.821	bb
2	b01nov10b-4	CS1 UD090323-02	100.000	31.21	97.45	1.775	1.821	bb
3	b01nov10b-5	CS2 UD090323-03	100.000	31.21	98.99	1.803	1.821	bb
4	b01nov10b-6	CS3 UD090323-04	100.000	31.21	99.98	1.821	1.821	bb
5	b01nov10b-7	CS4 UD101022-05	100.000	31.21	100.95	1.838	1.821	bb
6	b01nov10b-8	CS5 UD090323-06	100.000	31.21	104.11	1.896	1.821	bb

Compound name: 13C-12378-PeCDF
Response Factor: 1.69249
RRF SD: 0.136138, Relative SD: 8.04364 ✓
Response type: Internal Std (Ref 27), Area * (IS Conc. / IS Area)
Curve type: RF

	Filename	Sample ID	Std. Conc	RT	pg/uL	RRF	AvgRRF	M
1	b01nov10b-3	CS0.5 UD101022-01	100.000	33.71	95.03	1.608	1.692	bd
2	b01nov10b-4	CS1 UD090323-02	100.000	33.71	92.78	1.570	1.692	bd
3	b01nov10b-5	CS2 UD090323-03	100.000	33.71	94.64	1.602	1.692	bd
4	b01nov10b-6	CS3 UD090323-04	100.000	33.71	100.12	1.694	1.692	bd
5	b01nov10b-7	CS4 UD101022-05	100.000	33.71	102.97	1.743	1.692	bd
6	b01nov10b-8	CS5 UD090323-06	100.000	33.71	114.46	1.937	1.692	bd

Quantify Compound Summary Report **MassLynx 4.1**
Method 8290 ICAL Report

Dataset: C:\MassLynx\Default.pro\ICAL Results\8290-b01nov10b.qld

Last Altered: Tuesday, November 02, 2010 08:19:01 Eastern Standard Time
Printed: Tuesday, November 02, 2010 08:23:00 Eastern Standard Time

Compound name: 13C-123678-HxCDF
Response Factor: 1.63056
RRF SD: 0.0789708, Relative SD: 4.84316
Response type: Internal Std (Ref 28), Area * (IS Conc. / IS Area)
Curve type: RF

	Filename	Sample ID	Std. Conc	RT	pg/uL	RRF	AvgRRF	M
1	b01nov10b-3	CS0.5 UD101022-01	100.000	36.59	98.20	1.601	1.631	dd
2	b01nov10b-4	CS1 UD090323-02	100.000	36.59	99.49	1.622	1.631	dd
3	b01nov10b-5	CS2 UD090323-03	100.000	36.58	93.76	1.529	1.631	dd
4	b01nov10b-6	CS3 UD090323-04	100.000	36.59	108.43	1.768	1.631	dd
5	b01nov10b-7	CS4 UD101022-05	100.000	36.58	101.42	1.654	1.631	dd
6	b01nov10b-8	CS5 UD090323-06	100.000	36.58	98.70	1.609	1.631	db

Compound name: 13C-1234678-HpCDF
Response Factor: 1.0808
RRF SD: 0.0409675, Relative SD: 3.79049
Response type: Internal Std (Ref 28), Area * (IS Conc. / IS Area)
Curve type: RF

	Filename	Sample ID	Std. Conc	RT	pg/uL	RRF	AvgRRF	M
1	b01nov10b-3	CS0.5 UD101022-01	100.000	39.44	99.55	1.076	1.081	bd
2	b01nov10b-4	CS1 UD090323-02	100.000	39.44	99.80	1.079	1.081	bb
3	b01nov10b-5	CS2 UD090323-03	100.000	39.43	92.85	1.004	1.081	bd
4	b01nov10b-6	CS3 UD090323-04	100.000	39.44	102.53	1.108	1.081	bd
5	b01nov10b-7	CS4 UD101022-05	100.000	39.44	103.00	1.113	1.081	bd
6	b01nov10b-8	CS5 UD090323-06	100.000	39.44	102.26	1.105	1.081	bb

Compound name: 13C-1234-TCDD
Response Factor: 1
RRF SD: 0, Relative SD: 0
Response type: Internal Std (Ref 27), Area * (IS Conc. / IS Area)
Curve type: RF

	Filename	Sample ID	Std. Conc	RT	pg/uL	RRF	AvgRRF	M
1	b01nov10b-3	CS0.5 UD101022-01	100.000	31.34	100.00	1.000	1.000	bb
2	b01nov10b-4	CS1 UD090323-02	100.000	31.34	100.00	1.000	1.000	bb
3	b01nov10b-5	CS2 UD090323-03	100.000	31.34	100.00	1.000	1.000	bb
4	b01nov10b-6	CS3 UD090323-04	100.000	31.34	100.00	1.000	1.000	bb
5	b01nov10b-7	CS4 UD101022-05	100.000	31.34	100.00	1.000	1.000	bb
6	b01nov10b-8	CS5 UD090323-06	100.000	31.34	100.00	1.000	1.000	bb

Compound name: 13C-123789-HxCDD
Response Factor: 1
RRF SD: 0, Relative SD: 0
Response type: Internal Std (Ref 28), Area * (IS Conc. / IS Area)
Curve type: RF

	Filename	Sample ID	Std. Conc	RT	pg/uL	RRF	AvgRRF	M
1	b01nov10b-3	CS0.5 UD101022-01	100.000	37.56	100.00	1.000	1.000	bb
2	b01nov10b-4	CS1 UD090323-02	100.000	37.56	100.00	1.000	1.000	bb

Quantify Compound Summary Report **MassLynx 4.1**
Method 8290 ICAL Report

Dataset: C:\MassLynx\Default.pro\ICAL Results\8290-b01nov10b.qld

Last Altered: Tuesday, November 02, 2010 08:19:01 Eastern Standard Time
Printed: Tuesday, November 02, 2010 08:23:00 Eastern Standard Time

Compound name: 13C-123789-HxCDD

	Filename	Sample ID	Std. Conc	RT	pg/uL	RRF	AvgRRF	M
3	b01nov10b-5	CS2 UD090323-03	100.000	37.56	100.00	1.000	1.000	dd
4	b01nov10b-6	CS3 UD090323-04	100.000	37.56	100.00	1.000	1.000	bb
5	b01nov10b-7	CS4 UD101022-05	100.000	37.56	100.00	1.000	1.000	bb
6	b01nov10b-8	CS5 UD090323-06	100.000	37.56	100.00	1.000	1.000	bb

Compound name: 37Cl-2378-TCDD (SS)
Response Factor: 1.05413
RRF SD: 0.0569641, Relative SD: 5.40392
Response type: Internal Std (Ref 18), Area * (IS Conc. / IS Area)
Curve type: RF

	Filename	Sample ID	Std. Conc	RT	pg/uL	RRF	AvgRRF	M
1	b01nov10b-3	CS0.5 UD101022-01	0.250	31.76	0.26	1.110	1.054	bb
2	b01nov10b-4	CS1 UD090323-02	0.500	31.76	0.46	0.980	1.054	bb
3	b01nov10b-5	CS2 UD090323-03	2.000	31.75	1.91	1.009	1.054	bb
4	b01nov10b-6	CS3 UD090323-04	10.000	31.76	9.84	1.037	1.054	bb
5	b01nov10b-7	CS4 UD101022-05	40.000	31.75	42.72	1.126	1.054	bb
6	b01nov10b-8	CS5 UD090323-06	200.000	31.75	201.82	1.064	1.054	bb

Compound name: 13C-23478-PeCDF (SS)
Response Factor: 0.933349
RRF SD: 0.00699789, Relative SD: 0.749762
Response type: Internal Std (Ref 24), Area * (IS Conc. / IS Area)
Curve type: RF

	Filename	Sample ID	Std. Conc	RT	pg/uL	RRF	AvgRRF	M
1	b01nov10b-3	CS0.5 UD101022-01	100.000	34.34	100.53	0.938	0.933	bb
2	b01nov10b-4	CS1 UD090323-02	100.000	34.34	100.22	0.935	0.933	bb
3	b01nov10b-5	CS2 UD090323-03	100.000	34.33	100.28	0.936	0.933	bb
4	b01nov10b-6	CS3 UD090323-04	100.000	34.34	98.87	0.923	0.933	bb
5	b01nov10b-7	CS4 UD101022-05	100.000	34.34	100.79	0.941	0.933	bb
6	b01nov10b-8	CS5 UD090323-06	100.000	34.34	99.30	0.927	0.933	bb

Compound name: 13C-123478-HxCDF (SS)
Response Factor: 0.809676
RRF SD: 0.0245219, Relative SD: 3.02861
Response type: Internal Std (Ref 25), Area * (IS Conc. / IS Area)
Curve type: RF

	Filename	Sample ID	Std. Conc	RT	pg/uL	RRF	AvgRRF	M
1	b01nov10b-3	CS0.5 UD101022-01	100.000	36.48	102.98	0.834	0.810	bd
2	b01nov10b-4	CS1 UD090323-02	100.000	36.48	101.05	0.818	0.810	bd
3	b01nov10b-5	CS2 UD090323-03	100.000	36.48	100.63	0.815	0.810	bd
4	b01nov10b-6	CS3 UD090323-04	100.000	36.49	94.21	0.763	0.810	bd
5	b01nov10b-7	CS4 UD101022-05	100.000	36.48	99.76	0.808	0.810	bd
6	b01nov10b-8	CS5 UD090323-06	100.000	36.48	101.38	0.821	0.810	bd

Quantify Compound Summary Report **MassLynx 4.1**
Method 8290 ICAL Report

Dataset: C:\MassLynx\Default.pro\ICAL Results\8290-b01nov10b.qld

Last Altered: Tuesday, November 02, 2010 08:19:01 Eastern Standard Time
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Compound name: 13C-123478-HxCDD (SS)
Response Factor: 0.860981
RRF SD: 0.0367108, Relative SD: 4.26384
Response type: Internal Std (Ref 20), Area * (IS Conc. / IS Area)
Curve type: RF

	Filename	Sample ID	Std. Conc	RT	pg/uL	RRF	AvgRRF	M
1	b01nov10b-3	CS0.5 UD101022-01	100.000	37.22	104.88	0.903	0.861	bd
2	b01nov10b-4	CS1 UD090323-02	100.000	37.23	101.26	0.872	0.861	bd
3	b01nov10b-5	CS2 UD090323-03	100.000	37.22	94.73	0.816	0.861	bd
4	b01nov10b-6	CS3 UD090323-04	100.000	37.22	99.84	0.860	0.861	bd
5	b01nov10b-7	CS4 UD101022-05	100.000	37.22	95.32	0.821	0.861	bd
6	b01nov10b-8	CS5 UD090323-06	100.000	37.22	103.98	0.895	0.861	bd

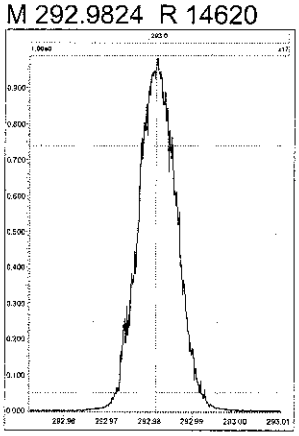
Compound name: 13C-1234789-HpCDF (SS)
Response Factor: 0.756048
RRF SD: 0.0115395, Relative SD: 1.5263
Response type: Internal Std (Ref 26), Area * (IS Conc. / IS Area)
Curve type: RF

	Filename	Sample ID	Std. Conc	RT	pg/uL	RRF	AvgRRF	M
1	b01nov10b-3	CS0.5 UD101022-01	100.000	41.45	98.68	0.746	0.756	bb
2	b01nov10b-4	CS1 UD090323-02	100.000	41.45	98.98	0.748	0.756	bb
3	b01nov10b-5	CS2 UD090323-03	100.000	41.44	100.18	0.757	0.756	bd
4	b01nov10b-6	CS3 UD090323-04	100.000	41.45	98.95	0.748	0.756	bd
5	b01nov10b-7	CS4 UD101022-05	100.000	41.45	100.46	0.760	0.756	bb
6	b01nov10b-8	CS5 UD090323-06	100.000	41.45	102.74	0.777	0.756	bb

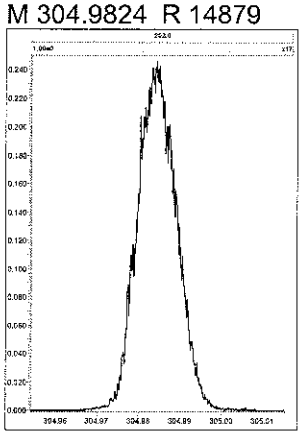
File: Experiment: dioxin_db5ms.exp Reference: pfk.ref Function: 1 @ 200 (ppm)

Printed: Monday, November 01, 2010 17:30:44 Eastern Standard Time

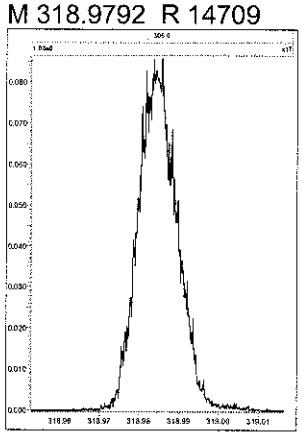
M 292.9824 R 14620



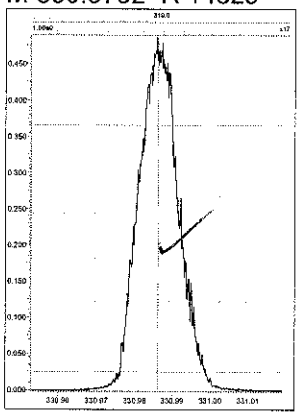
M 304.9824 R 14879



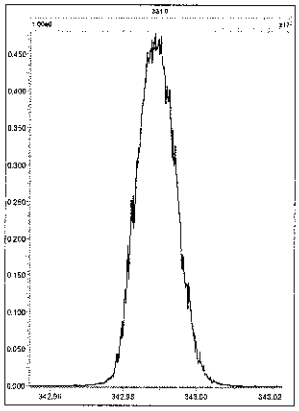
M 318.9792 R 14709



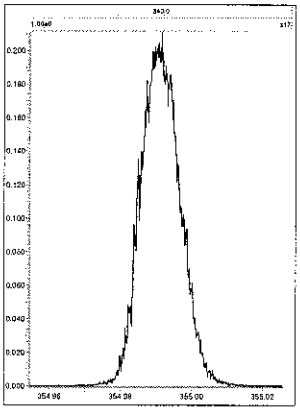
M 330.9792 R 14529



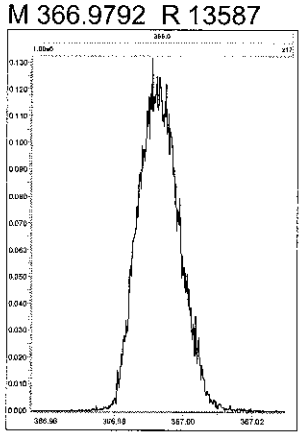
M 342.9792 R 14711



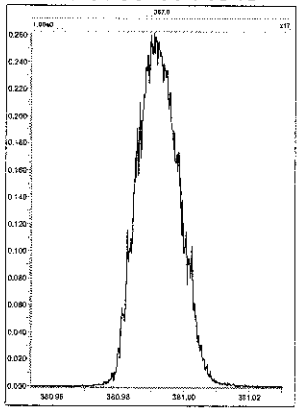
M 354.9792 R 14622



M 366.9792 R 13587



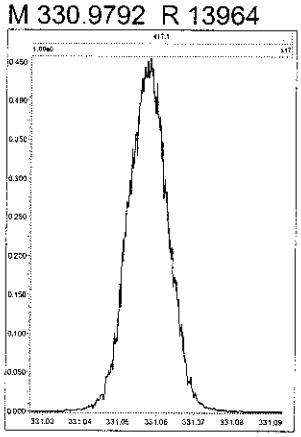
M 380.9760 R 14049



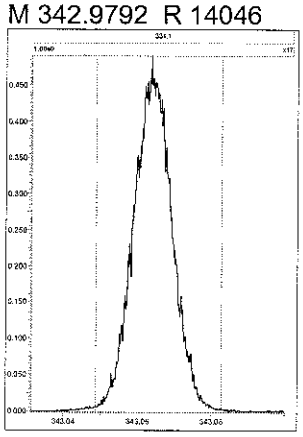
File: Experiment: dioxin_db5ms.exp Reference: pfk.ref Function: 2 @ 200 (ppm)

Printed: Monday, November 01, 2010 17:31:03 Eastern Standard Time

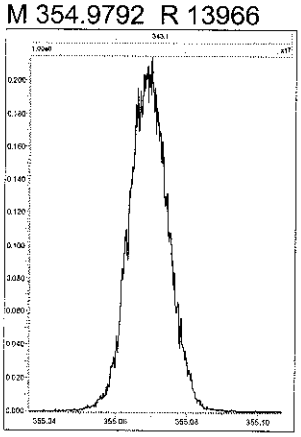
M 330.9792 R 13964



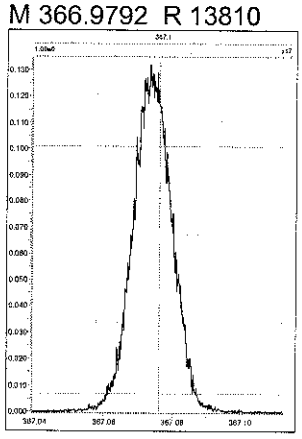
M 342.9792 R 14046



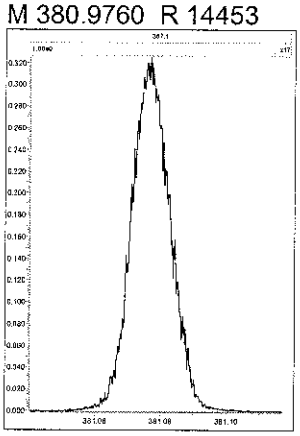
M 354.9792 R 13966



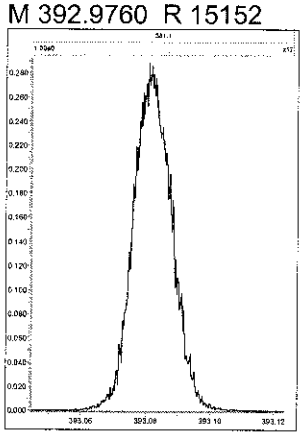
M 366.9792 R 13810



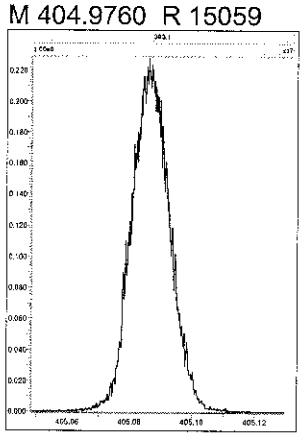
M 380.9760 R 14453



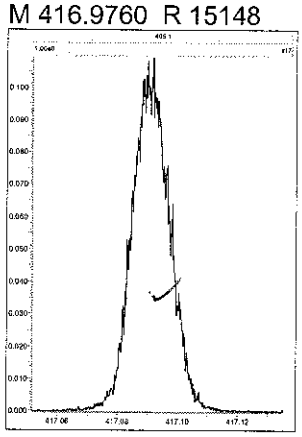
M 392.9760 R 15152



M 404.9760 R 15059



M 416.9760 R 15148



File: Experiment: dioxin_db5ms.exp Reference: pfk.ref Function: 3 @ 200 (ppm)

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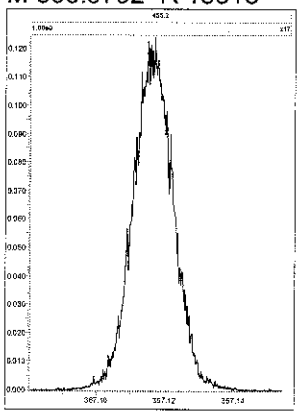
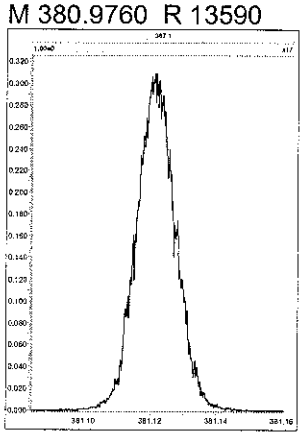
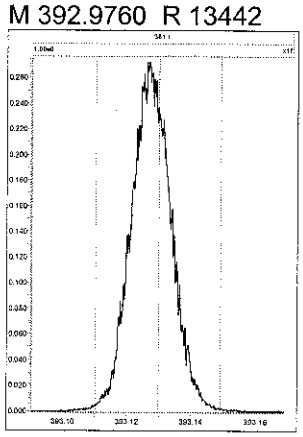
M 366.9792 R 13513



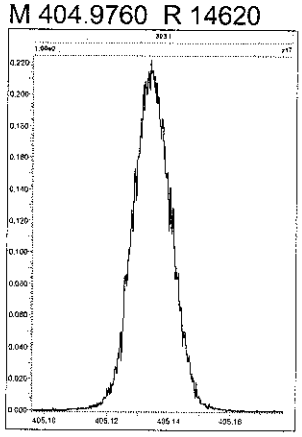
M 380.9760 R 13590



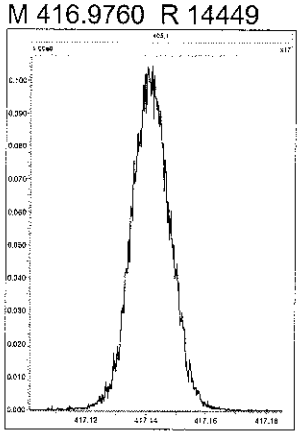
M 392.9760 R 13442



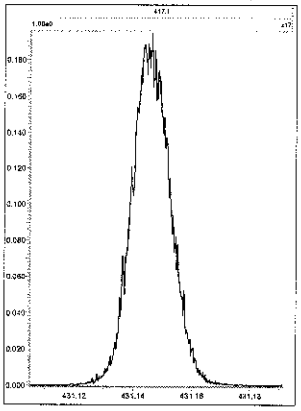
M 404.9760 R 14620



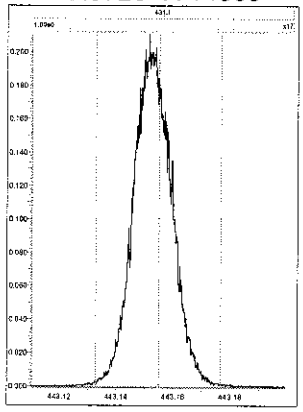
M 416.9760 R 14449



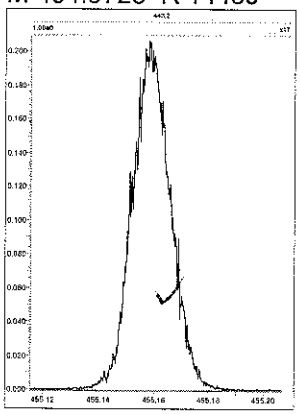
M 430.9728 R 14127



M 442.9728 R 14369



M 454.9728 R 14450



File: Experiment: dioxin_db5ms.exp Reference: pfk.ref Function: 4 @ 200 (ppm)

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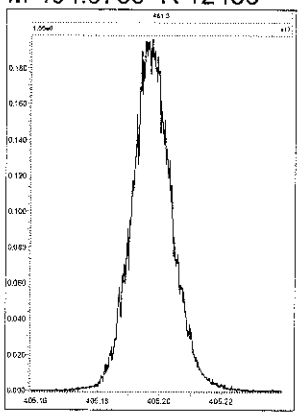
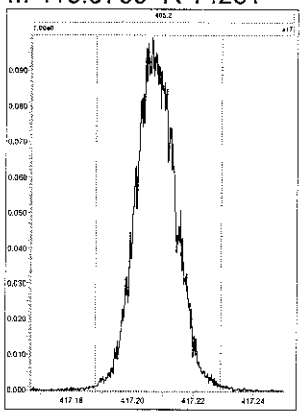
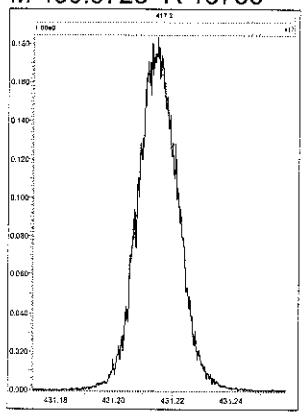
M 404.9760 R 12435



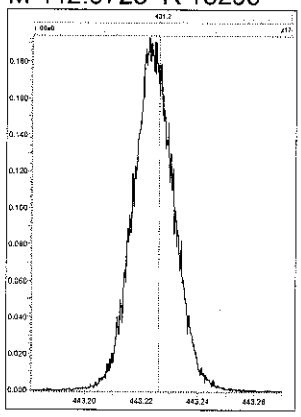
M 416.9760 R 14281



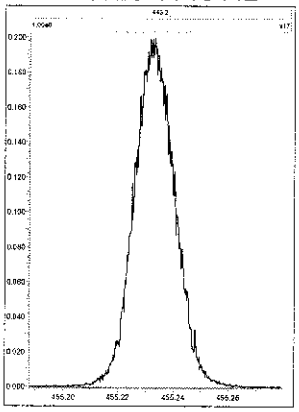
M 430.9728 R 13736



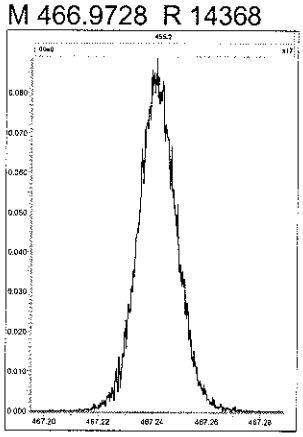
M 442.9728 R 13296



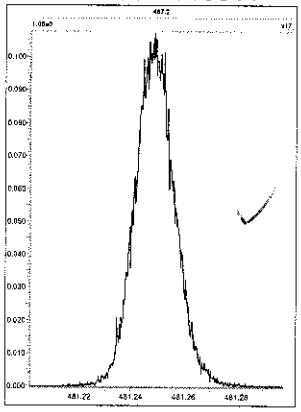
M 454.9728 R 13442



M 466.9728 R 14368



M 480.9696 R 13811



File: Experiment: dioxin_db5ms.exp Reference: pfk.ref Function: 5 @ 200 (ppm)

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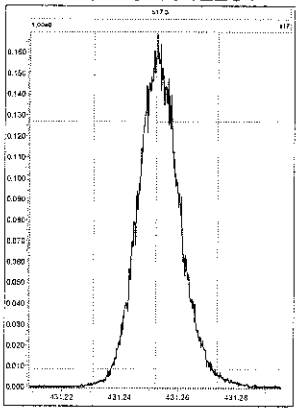
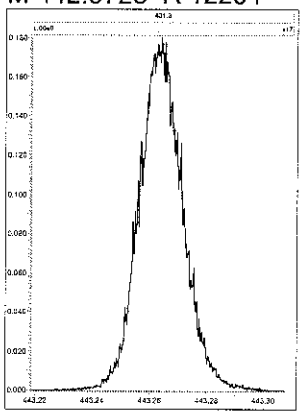
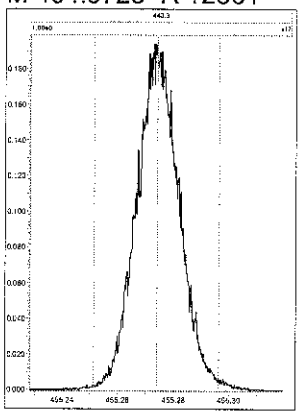
M 430.9728 R 12251



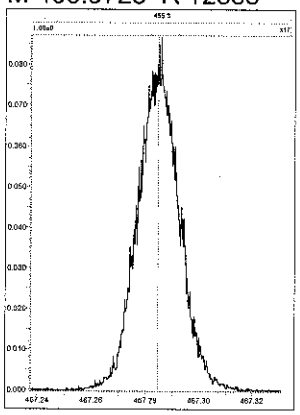
M 442.9728 R 12254



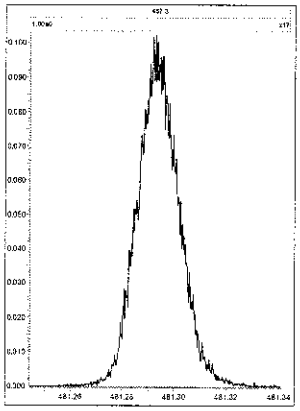
M 454.9728 R 12561



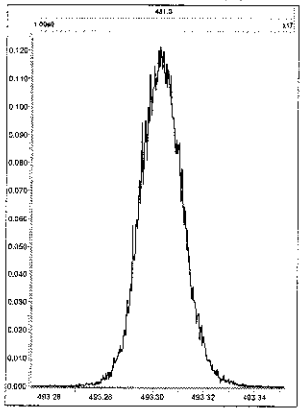
M 466.9728 R 12888



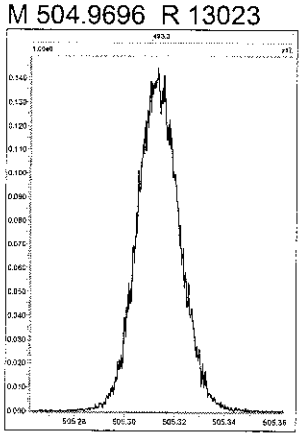
M 480.9696 R 13085



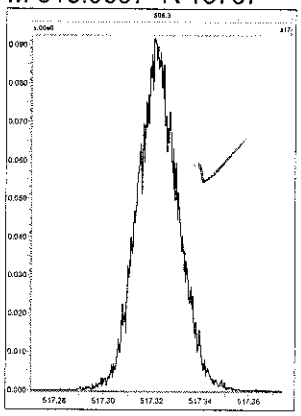
M 492.9696 R 12562



M 504.9696 R 13023



M 516.9697 R 13737



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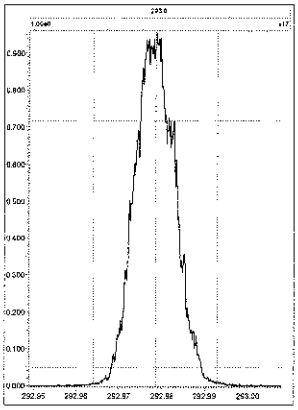
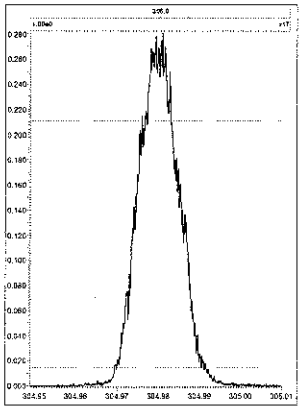
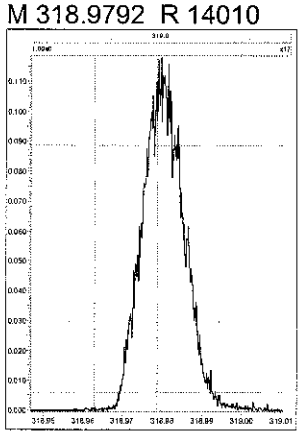
M 292.9824 R 13698



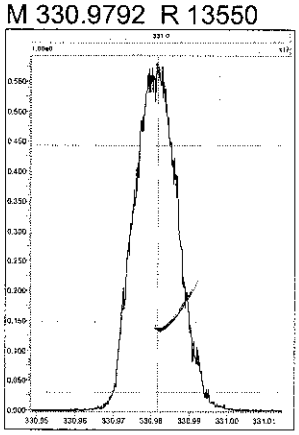
M 304.9824 R 14285



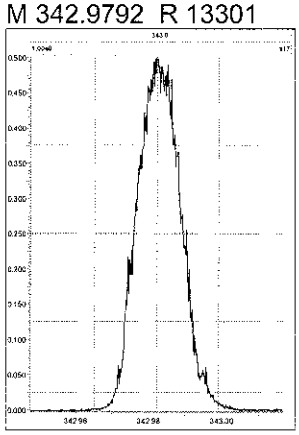
M 318.9792 R 14010



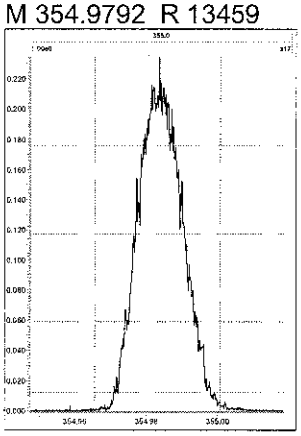
M 330.9792 R 13550



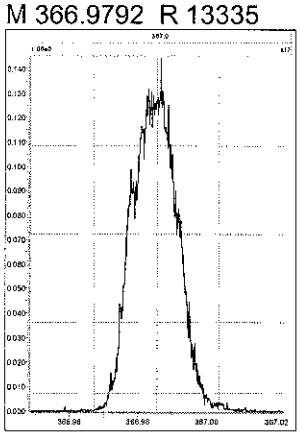
M 342.9792 R 13301



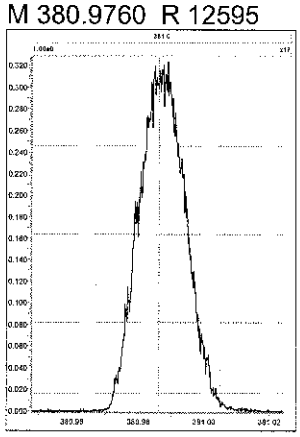
M 354.9792 R 13459



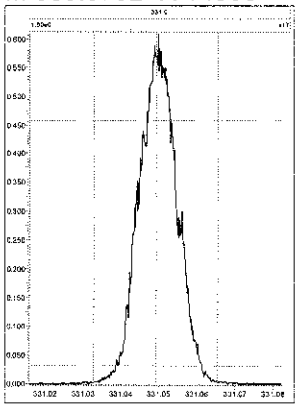
M 366.9792 R 13335



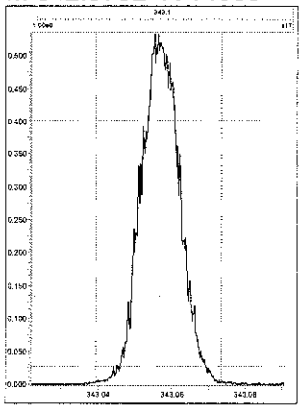
M 380.9760 R 12595



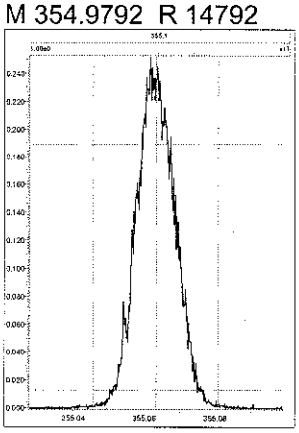
M 330.9792 R 14663



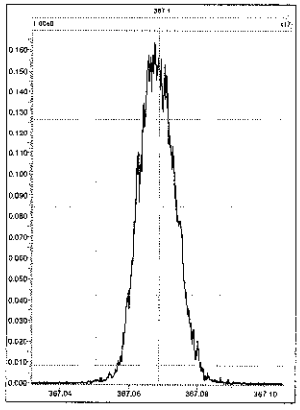
M 342.9792 R 14335



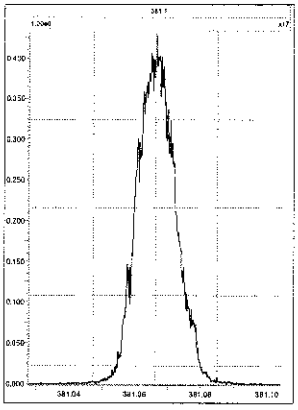
M 354.9792 R 14792



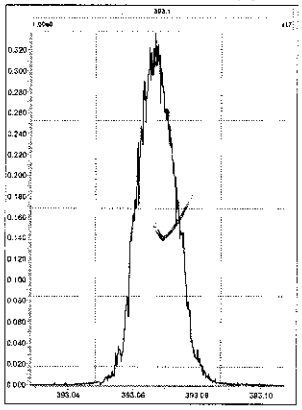
M 366.9792 R 14880



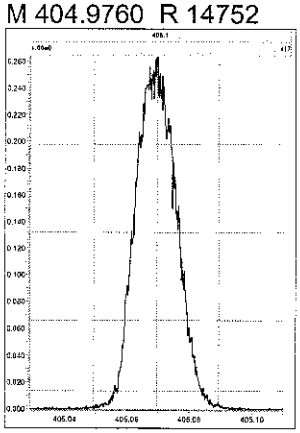
M 380.9760 R 14458



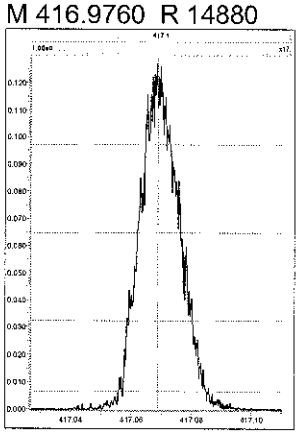
M 392.9760 R 14450



M 404.9760 R 14752

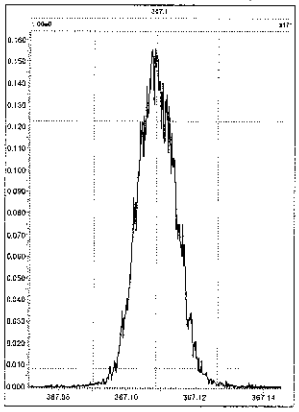


M 416.9760 R 14880

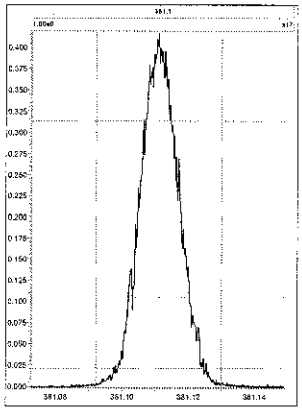


Printed: Tuesday, November 02, 2010 01:03:22 Eastern Standard Time

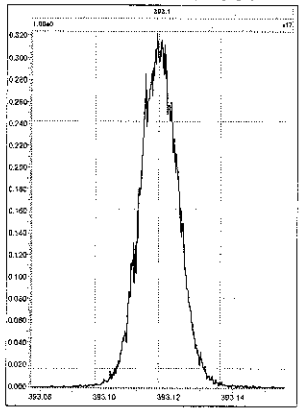
M 366.9792 R 15060



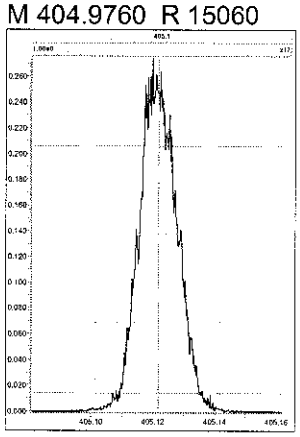
M 380.9760 R 14978



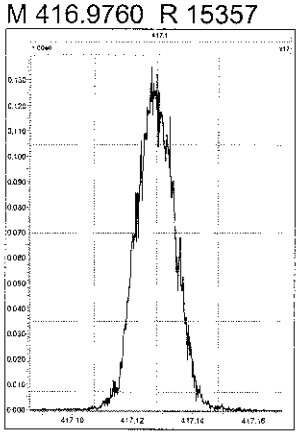
M 392.9760 R 14367



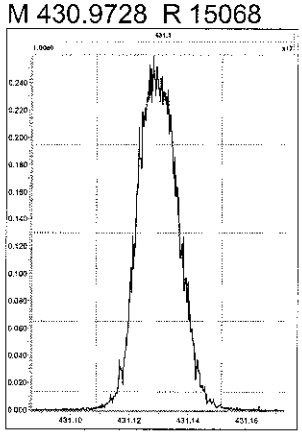
M 404.9760 R 15060



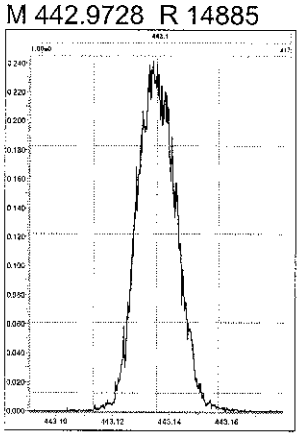
M 416.9760 R 15357



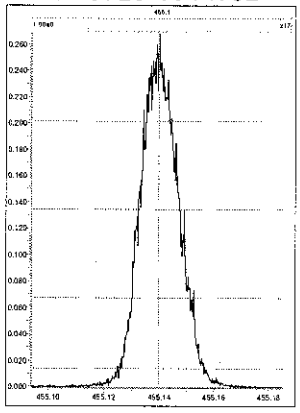
M 430.9728 R 15068



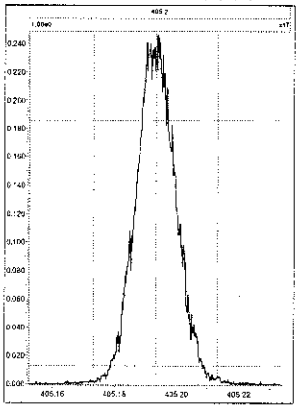
M 442.9728 R 14885



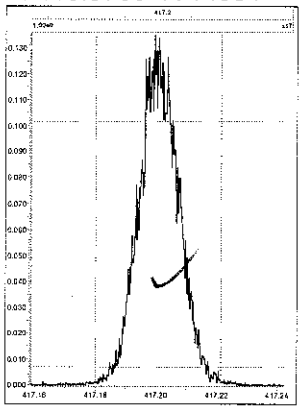
M 454.9728 R 14792



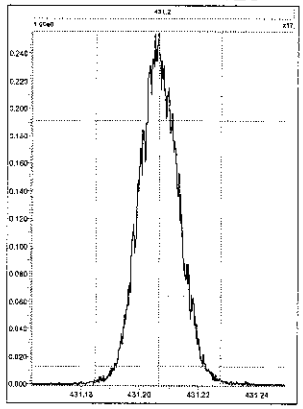
M 404.9760 R 13858



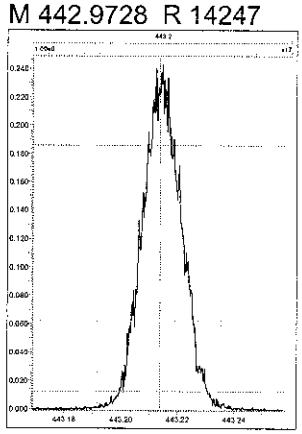
M 416.9760 R 14084



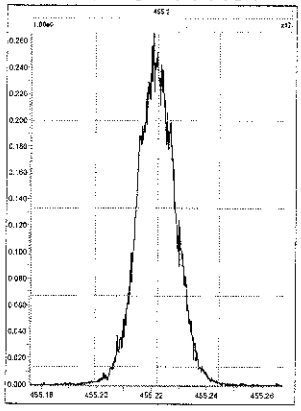
M 430.9728 R 14423



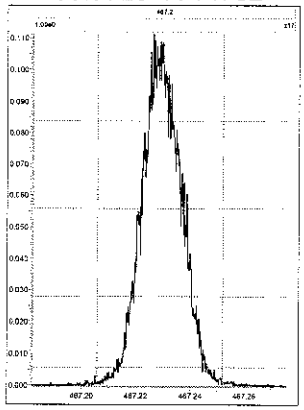
M 442.9728 R 14247



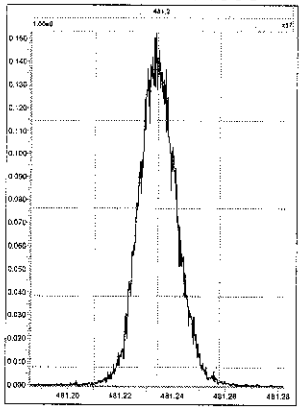
M 454.9728 R 14454



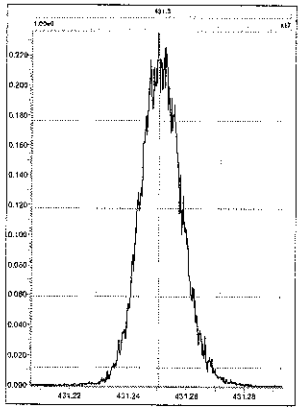
M 466.9728 R 14752



M 480.9696 R 14885



M 430.9728 R 13233



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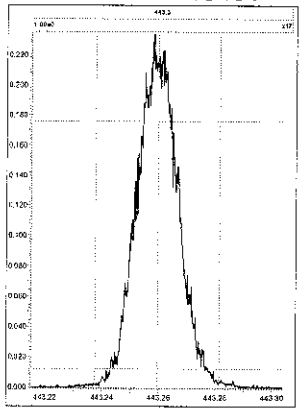
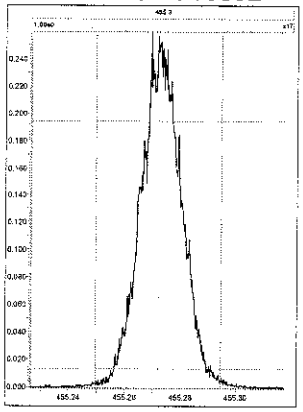
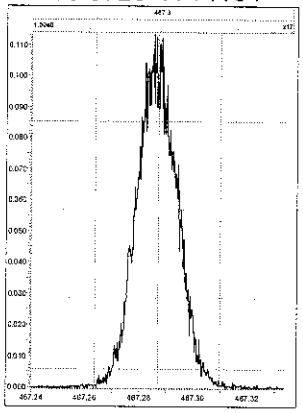
M 442.9728 R 13481



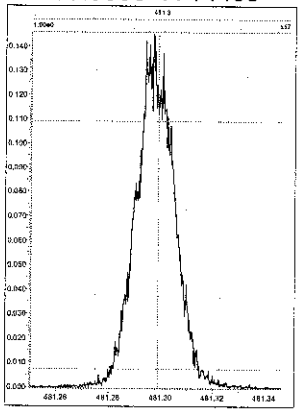
M 454.9728 R 13892



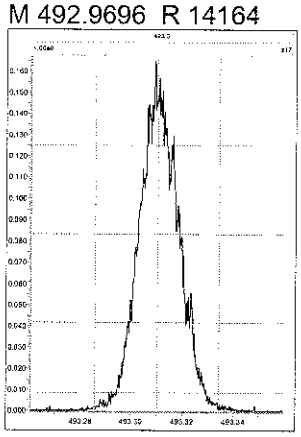
M 466.9728 R 14164



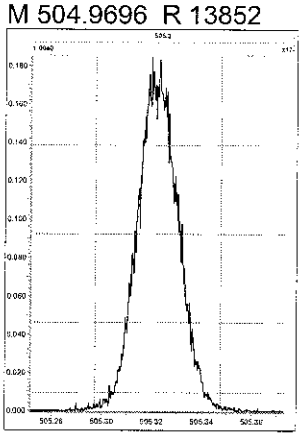
M 480.9696 R 14409



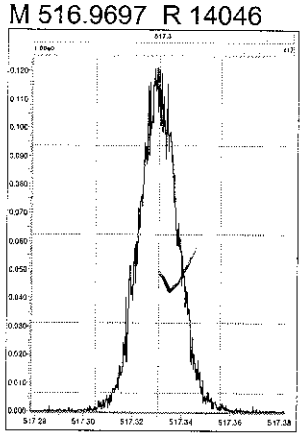
M 492.9696 R 14164



M 504.9696 R 13852



M 516.9697 R 14046



Quantify Sample Summary Report **MassLynx 4.1**
Window Defining Report

Dataset: C:\MassLynx\Default.pro\WDM Results\wdm-b01nov10b-1.qld

Last Altered: Tuesday, November 02, 2010 09:12:49 Eastern Standard Time
Printed: Tuesday, November 02, 2010 09:13:30 Eastern Standard Time

Method: C:\MassLynx\Default.pro\Methdb\WDM_110110.mdb 19 Oct 2010 08:23:47
Calibration: C:\MassLynx\DEFAULT.PRO\CurveDB\8290-b01nov10b.cdb 02 Nov 2010 08:19:01

Name: b01nov10b-1, Date: 01-Nov-2010, Time: 17:33:30, ID: CS3WT UD100713-01.2, Description: , Job: b01nov10b, Task: HRP763_1, User: MJC

	Name	RT
1	First TCDF	27.06
2	Last TCDF	32.34
3	First PeCDF	32.30
4	Last PeCDF	35.02
5	First HxCDF	35.52
6	Last HxCDF	37.93
7	First HpCDF	39.47
8	Last HpCDF	41.48
9	OCDF	45.52
10	First TCDD	28.81
11	2378-TCDD	31.76
12	Last TCDD	32.26
13	First PeCDD	33.18
14	Last PeCDD	34.83
15	First HxCDD	35.95
16	Last HxCDD	37.59
17	First HpCDD	39.80
18	Last HpCDD	40.77
19	OCDD	45.20

Quantify Sample Report **MassLynx 4.1**
Window Defining Report

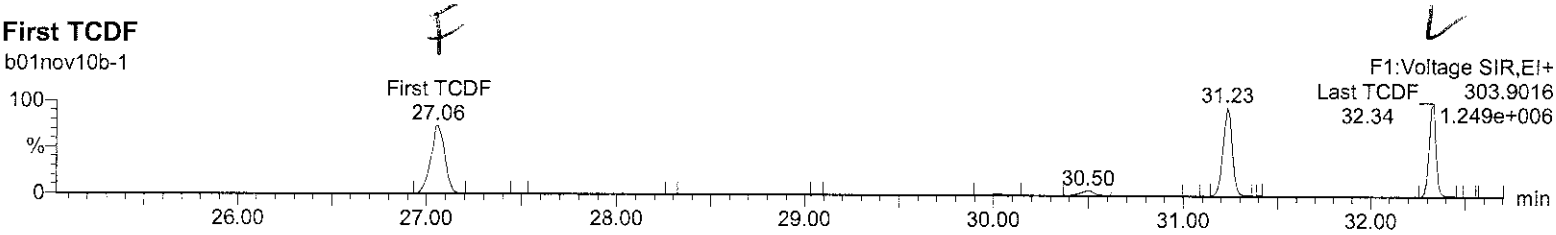
Dataset: C:\MassLynx\Default.pro\WDM Results\wdm-b01nov10b-1.qld

Last Altered: Tuesday, November 02, 2010 09:12:49 Eastern Standard Time
Printed: Tuesday, November 02, 2010 09:13:30 Eastern Standard Time

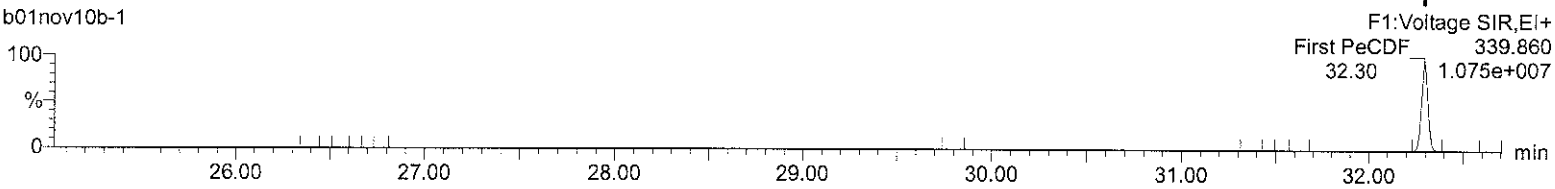
Method: C:\MassLynx\Default.pro\Methdb\WDM_110110.mdb 19 Oct 2010 08:23:47
Calibration: C:\MassLynx\DEFAULT.PRO\CurveDB\8290-b01nov10b.cdb 02 Nov 2010 08:19:01

Name: b01nov10b-1, Date: 01-Nov-2010, Time: 17:33:30, ID: CS3WT UD100713-01.2, Description: , Job: b01nov10b, Task: HRP763_1, User: MJC

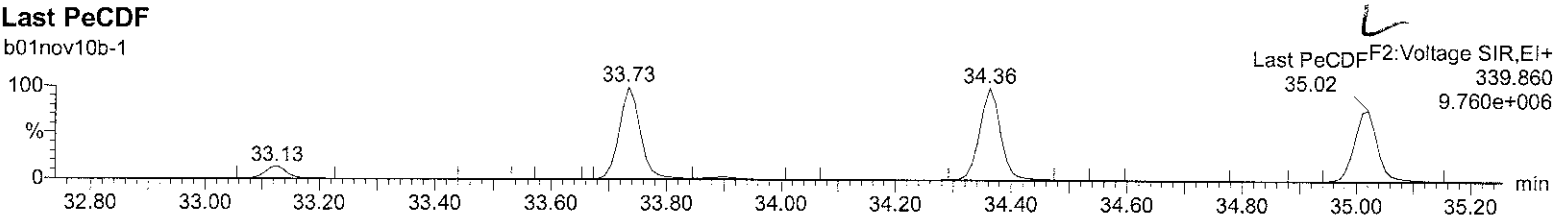
First TCDF
b01nov10b-1



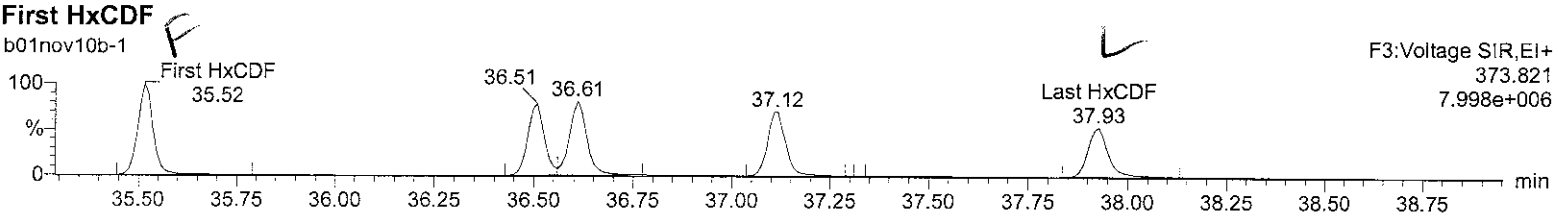
First PeCDF
b01nov10b-1



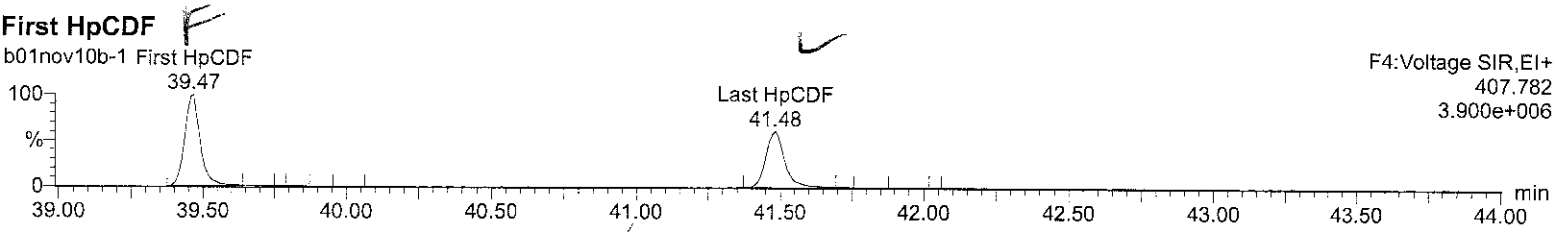
Last PeCDF
b01nov10b-1



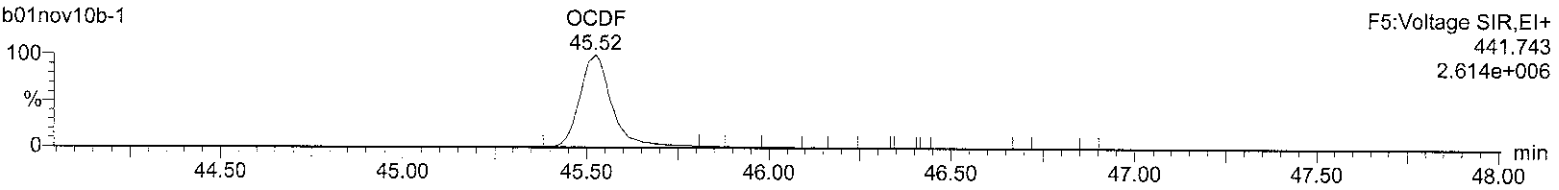
First HxCDF
b01nov10b-1



First HpCDF
b01nov10b-1



OCDF
b01nov10b-1



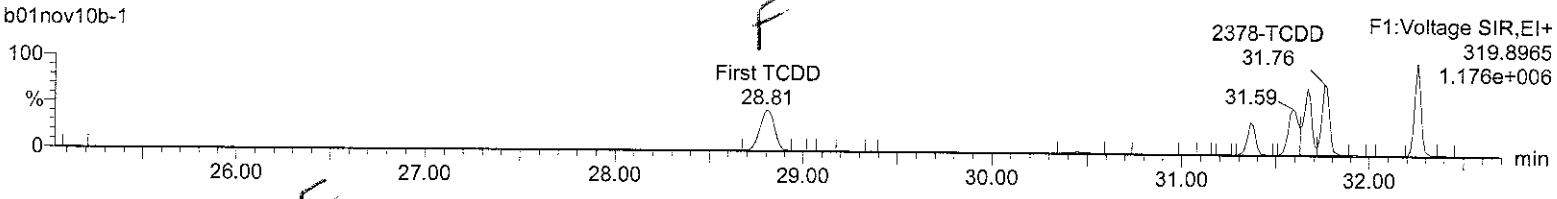
Quantify Sample Report **MassLynx 4.1**
Window Defining Report

Dataset: C:\MassLynx\Default.pro\WDM Results\wdm-b01nov10b-1.qld

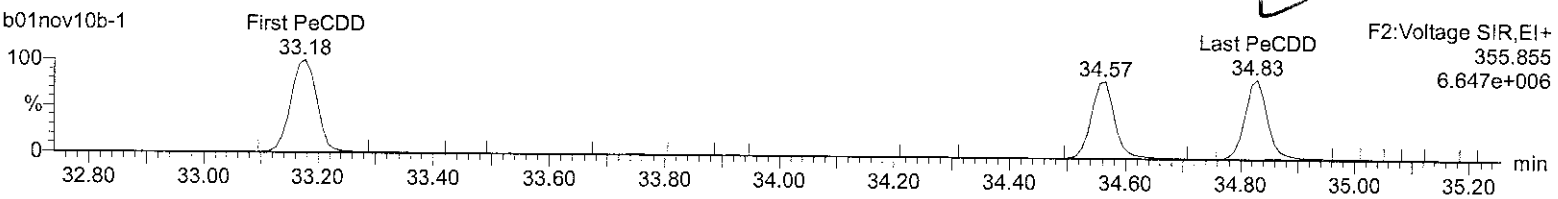
Last Altered: Tuesday, November 02, 2010 09:12:49 Eastern Standard Time
Printed: Tuesday, November 02, 2010 09:13:30 Eastern Standard Time

Name: b01nov10b-1, Date: 01-Nov-2010, Time: 17:33:30, ID: CS3WT UD100713-01.2, Description: , Job: b01nov10b, Task: HRP763_1, User: MJC

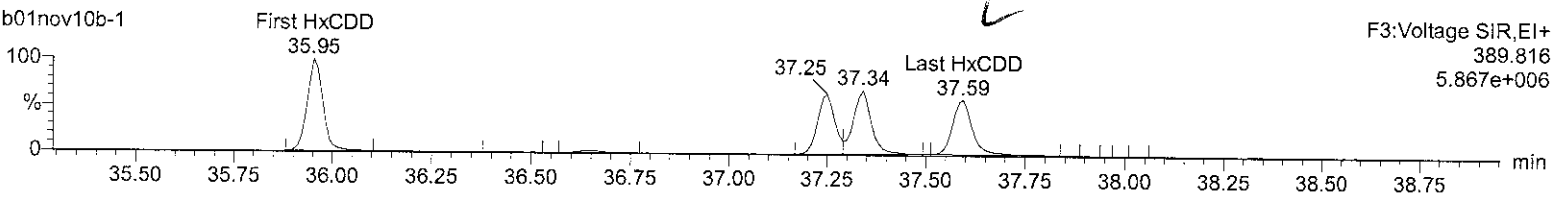
First TCDD
b01nov10b-1



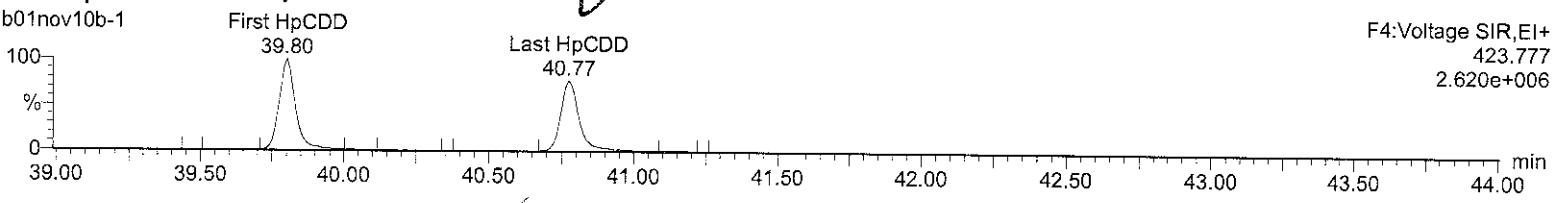
First PeCDD
b01nov10b-1



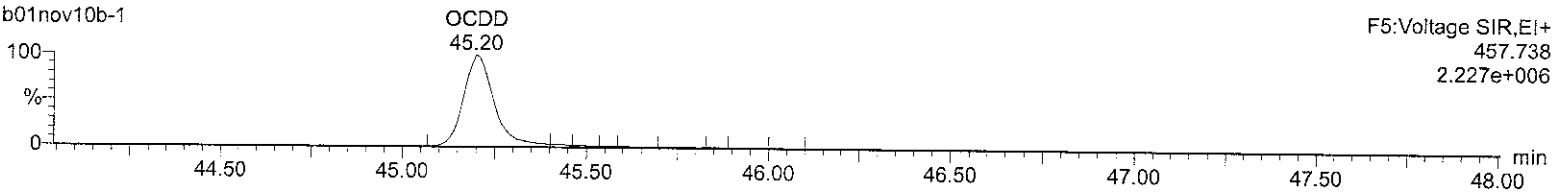
First HxCDD
b01nov10b-1



First HpCDD
b01nov10b-1



OCDD
b01nov10b-1



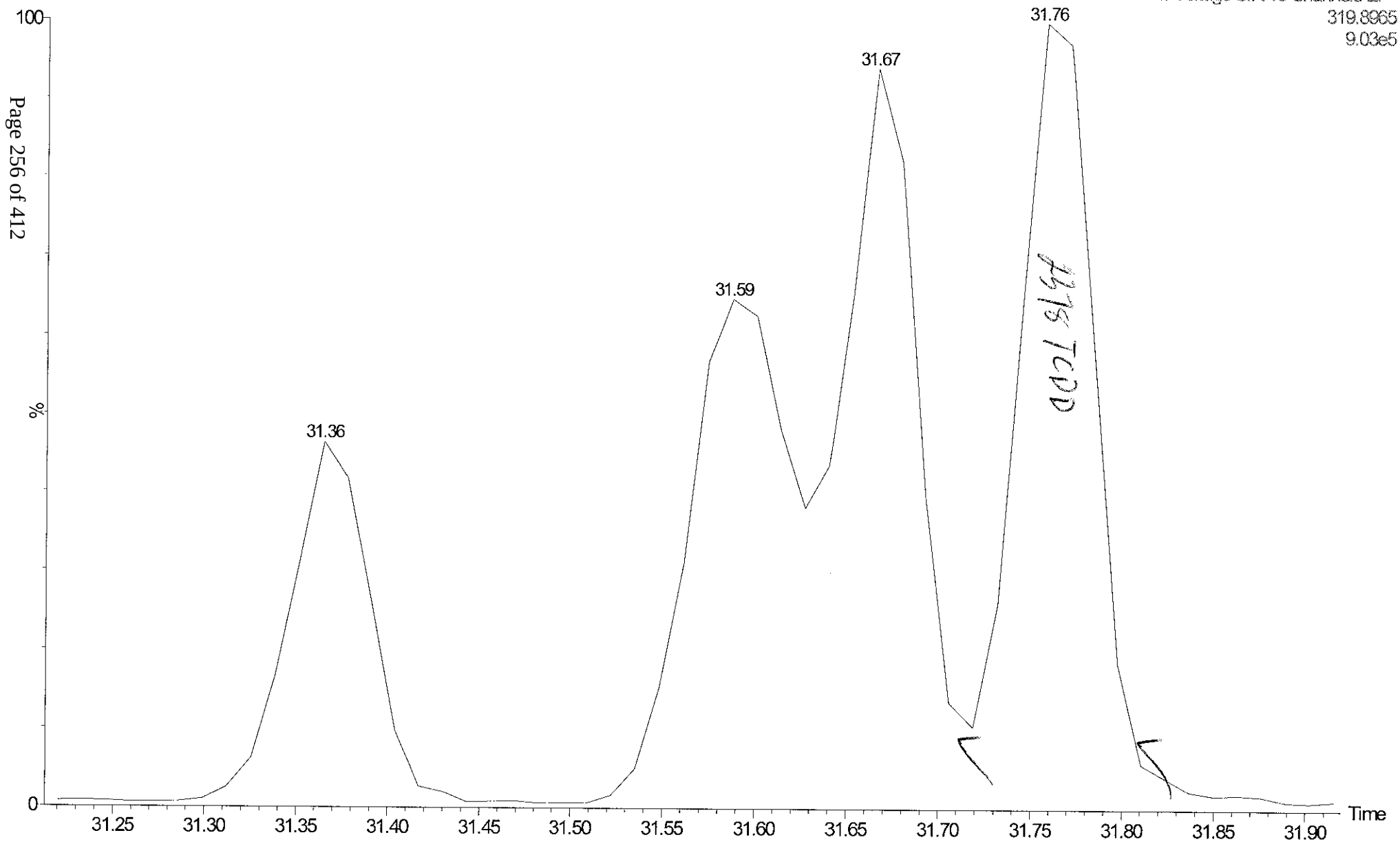
COLUMN CHECK (2378-TCDD 10%)

P763

01-Nov-2010 17:33:30

b01nov10b-1

1: Voltage SIR 13 Channels EI+
319.8965
9.03e5



Quantify Sample Summary Report **MassLynx 4.1**
Method 8290 ICAL Report

Dataset: C:\MassLynx\Default.pro\ICAL Results\8290-b01nov10b.qld

Last Altered: Tuesday, November 02, 2010 08:19:01 Eastern Standard Time
Printed: Tuesday, November 02, 2010 08:23:00 Eastern Standard Time

Method: Untitled 19 Oct 2010 08:35:07
Calibration: 02 Nov 2010 08:19:01

Name: b01nov10b-3, Date: 01-Nov-2010, Time: 19:16:15, ID: CS0.5 UD101022-01, Description: , Job: b01nov10b, Task: HRP763_1, User: MJC

	Name	Ion1Area	Ion2Area	Response	RT	RRT	RA	Fail?	pg/uL	RRF	EDL	Height1	Noise1	S/N1	Height2	Noise2	S/N2	M
1	2378-TCDD	1.13e3	1.51e3	2.64e3	31.76	1.00	0.75	NO	0.270	1.094	0.0248	2.68e4	697	38.5	3.16e4	969	32.6	bb
2	12378-PeCDD	6.48e3	3.98e3	1.05e4	34.54	1.00	1.63	NO	1.209	0.998	0.0314	1.33e5	1153	115.2	8.67e4	825	105.2	bd
3	123478-HxCDD	5.02e3	4.17e3	9.19e3	37.24	1.00	1.21	NO	1.303	0.935	0.0533	9.90e4	1103	89.8	7.65e4	1108	69.1	bd
4	123678-HxCDD	5.24e3	4.17e3	9.41e3	37.33	1.00	1.26	NO	1.237	0.957	0.0494	9.55e4	1103	86.6	7.03e4	1108	63.4	dd
5	123789-HxCDD	4.93e3	3.56e3	8.50e3	37.57	1.01	1.38	NO	1.249	0.864	0.0553	8.74e4	1103	79.2	7.01e4	1108	63.3	bb
6	1234678-HpCDD	3.66e3	3.50e3	7.15e3	40.76	1.00	1.05	NO	1.192	0.958	0.0602	5.04e4	885	57.0	4.59e4	647	70.9	M...
7	OCDD	5.14e3	5.83e3	1.10e4	45.19	1.00	0.88	NO	2.321	0.924	0.126	5.72e4	1029	55.5	6.16e4	817	75.3	bd
8	2378-TCDF	1.86e3	2.22e3	4.08e3	31.22	1.00	0.84	NO	0.250	0.982	0.0208	3.29e4	689	47.7	3.48e4	1287	27.0	bb
9	12378-PeCDF	1.01e4	6.33e3	1.64e4	33.72	1.00	1.60	NO	1.180	0.882	0.0377	2.18e5	1674	130.2	1.36e5	2327	58.3	bd
10	23478-PeCDF	9.83e3	6.46e3	1.63e4	34.35	1.02	1.52	NO	1.195	0.874	0.0386	2.19e5	1674	131.0	1.45e5	2327	62.2	bd
11	123478-HxCDF	7.26e3	6.11e3	1.34e4	36.49	1.00	1.19	NO	1.233	0.896	0.0457	1.46e5	1728	84.7	1.16e5	1190	97.5	bd
12	123678-HxCDF	8.73e3	6.46e3	1.52e4	36.60	1.00	1.35	NO	1.204	1.019	0.0392	1.57e5	1728	90.7	1.19e5	1190	99.8	dd
13	234678-HxCDF	7.89e3	6.14e3	1.40e4	37.11	1.01	1.28	NO	1.230	0.940	0.0434	1.51e5	1728	87.2	1.18e5	1190	98.9	bb
14	123789-HxCDF	6.54e3	4.90e3	1.14e4	37.91	1.04	1.33	NO	1.212	0.767	0.0524	1.14e5	1728	66.2	9.19e4	1190	77.2	bd
15	1234678-HpCDF	6.02e3	5.91e3	1.19e4	39.45	1.00	1.02	NO	1.165	1.190	0.0447	9.33e4	1083	86.1	9.64e4	1157	83.4	bd
16	1234789-HpCDF	4.73e3	4.23e3	8.96e3	41.46	1.05	1.12	NO	1.202	0.894	0.0613	6.03e4	1083	55.7	5.79e4	1157	50.1	bd
17	OCDF	6.28e3	7.24e3	1.35e4	45.50	1.01	0.87	NO	2.313	1.140	0.277	6.37e4	1576	40.4	7.26e4	3441	21.1	M...
18	13C-2378-TCDD	4.26e5	5.39e5	9.65e5	31.75	1.01	0.79	NO	93.002	1.041	0.0751	8.79e6	3010	2919.1	1.09e7	1577	6901.0	bb
19	13C-12378-PeCDD	5.14e5	3.24e5	8.38e5	34.53	1.10	1.59	NO	95.212	0.905	0.0921	1.12e7	2977	3771.4	7.13e6	1794	3972.5	bb
20	13C-123678-HxCDD	4.27e5	3.59e5	7.87e5	37.31	0.99	1.19	NO	94.939	1.056	0.165	7.54e6	4859	1551.0	6.13e6	2481	2471.4	db
21	13C-1234678-HpCDD	3.08e5	2.90e5	5.97e5	40.74	1.08	1.06	NO	100.107	0.801	0.195	3.92e6	3705	1056.8	3.81e6	2534	1504.6	bb
22	13C-OCDD	4.49e5	5.00e5	9.49e5	45.17	1.20	0.90	NO	190.525	0.637	0.306	4.18e6	3823	1092.7	4.68e6	4344	1076.9	bd
23	13C-2378-TCDF	7.32e5	9.31e5	1.66e6	31.21	1.00	0.79	NO	98.526	1.794	0.0318	1.27e7	1351	9422.3	1.60e7	1810	8852.2	bb
24	13C-12378-PeCDF	9.14e5	5.77e5	1.49e6	33.71	1.08	1.58	NO	95.028	1.608	0.139	2.09e7	6621	3152.8	1.33e7	6201	2136.9	bd
25	13C-123678-HxCDF	4.08e5	7.85e5	1.19e6	36.59	0.97	0.52	NO	98.204	1.601	0.158	7.22e6	4623	1561.0	1.36e7	5684	2394.5	dd
26	13C-1234678-HpCDF	2.47e5	5.55e5	8.02e5	39.44	1.05	0.45	NO	99.554	1.076	0.193	3.63e6	3284	1106.2	8.13e6	5074	1602.3	bd
27	13C-1234-TCDD	4.12e5	5.15e5	9.27e5	31.34	0.00	0.80	NO	100.000	1.000	0.0841	7.27e6	3010	2413.9	9.15e6	1577	5800.4	bb
28	13C-123789-HxCDD	4.04e5	3.41e5	7.45e5	37.56	0.00	1.18	NO	100.000	1.000	0.184	6.50e6	4859	1338.1	5.20e6	2481	2093.6	bb
29	37Cl-2378-TCDD (SS)	2.68e3		2.68e3	31.76	1.00			0.263	1.110	0.0207	6.33e4	1449	43.7				bb
30	13C-23478-PeCDF (SS)	8.57e5	5.41e5	1.40e6	34.34	1.02	1.58	NO	100.531	0.938	0.121	2.00e7	6621	3027.8	1.26e7	6201	2038.8	bb

Quantify Sample Summary Report **MassLynx 4.1**
Method 8290 ICAL Report

Dataset: C:\MassLynx\Default.pro\ICAL Results\8290-b01nov10b.qld

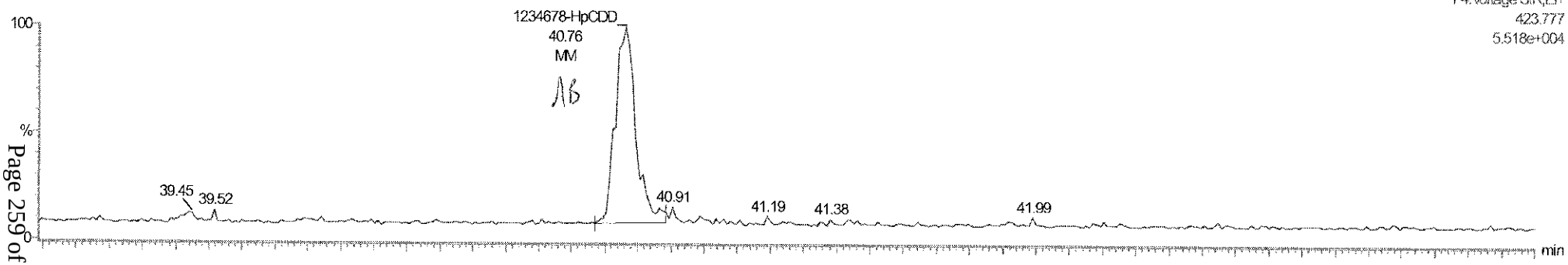
Last Altered: Tuesday, November 02, 2010 08:19:01 Eastern Standard Time
Printed: Tuesday, November 02, 2010 08:23:00 Eastern Standard Time

Name: b01nov10b-3, Date: 01-Nov-2010, Time: 19:16:15, ID: CS0.5 UD101022-01, Description: , Job: b01nov10b, Task: HRP763_1, User: MJC

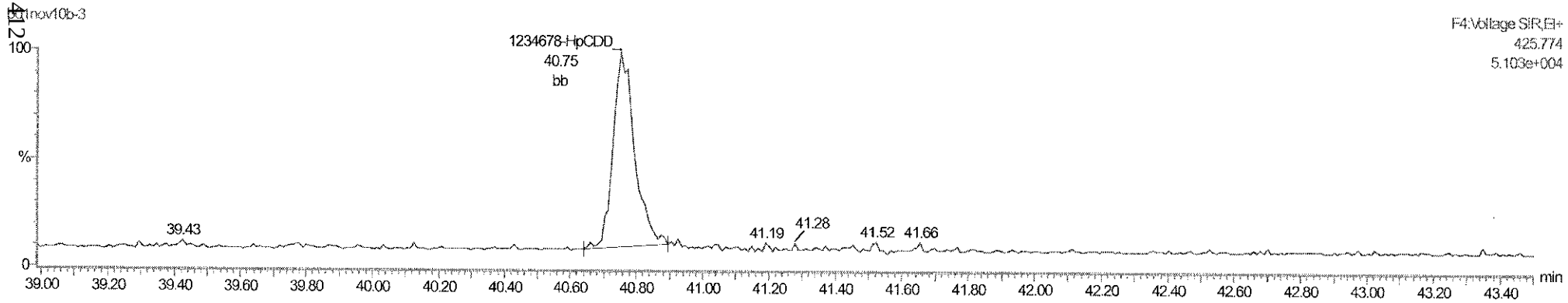
Name	Ion1Area	Ion2Area	Response	RT	RRT	RA	Fail?	pg/uL	RRF	EDL	Height1	Noise1	S/N1	Height2	Noise2	S/N2	M
13C-123478-HxCDF (SS)	3.39e5	6.56e5	9.95e5	36.48	1.00	0.52	NO	102.985	0.834	0.181	6.76e6	4623	1462.7	1.32e7	5684	2317.1	bd
13C-123478-HxCDD (SS)	3.98e5	3.12e5	7.10e5	37.22	1.00	1.28	NO	104.877	0.903	0.184	7.82e6	4859	1610.2	5.96e6	2481	2401.9	bd
13C-1234789-HpCDF (SS)	1.80e5	4.18e5	5.98e5	41.45	1.05	0.43	NO	98.678	0.746	0.281	2.25e6	3284	685.7	5.07e6	5074	999.8	bb

MANUAL INTEGRATION

b01nov10b-3



b01nov10b-3

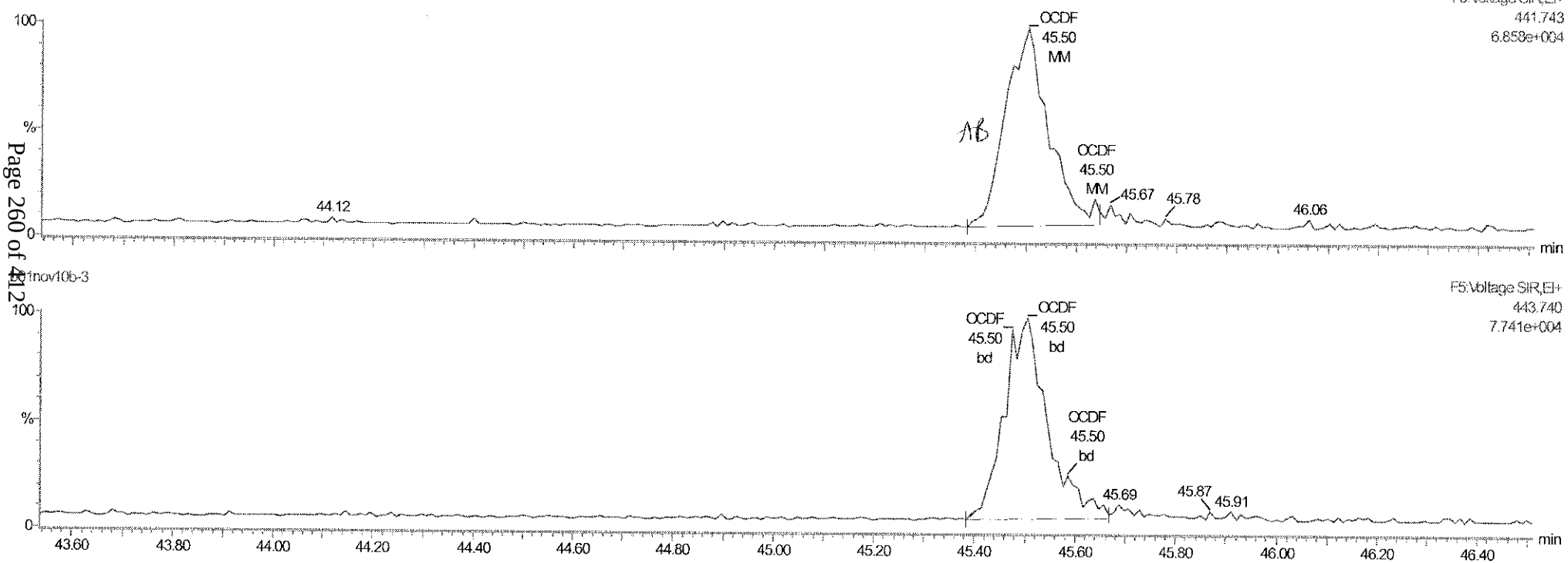


HMP 02Nov10

Ue
3Nov10

MANUAL INTEGRATION

b01nov10b-3



HMP 02Nov10

Quantify Sample Report **MassLynx 4.1**
Method 8290 ICAL Report

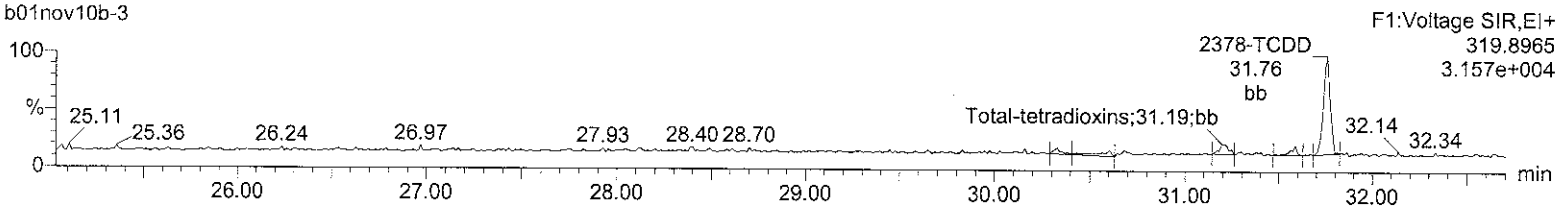
Dataset: C:\MassLynx\Default.pro\ICAL Results\8290-b01nov10b.qld

Last Altered: Tuesday, November 02, 2010 08:16:46 Eastern Standard Time
Printed: Tuesday, November 02, 2010 08:17:27 Eastern Standard Time

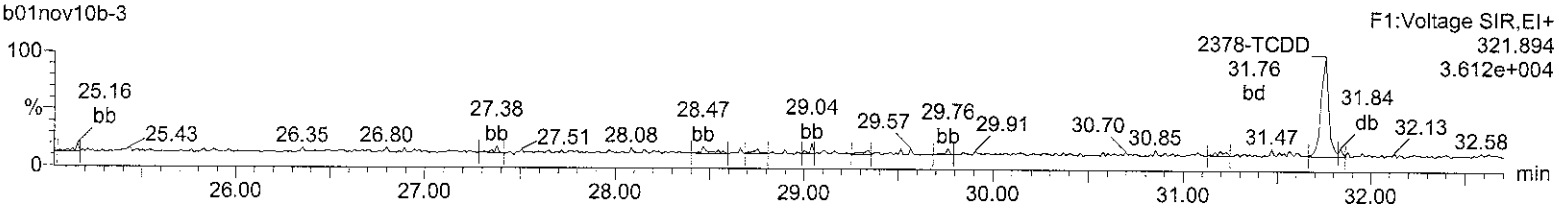
Method: Untitled 19 Oct 2010 08:35:07
Calibration: 02 Nov 2010 08:16:43

Name: b01nov10b-3, Date: 01-Nov-2010, Time: 19:16:15, ID: CS0.5 UD101022-01, Description: , Job: b01nov10b, Task: HRP763_1, User: MJC

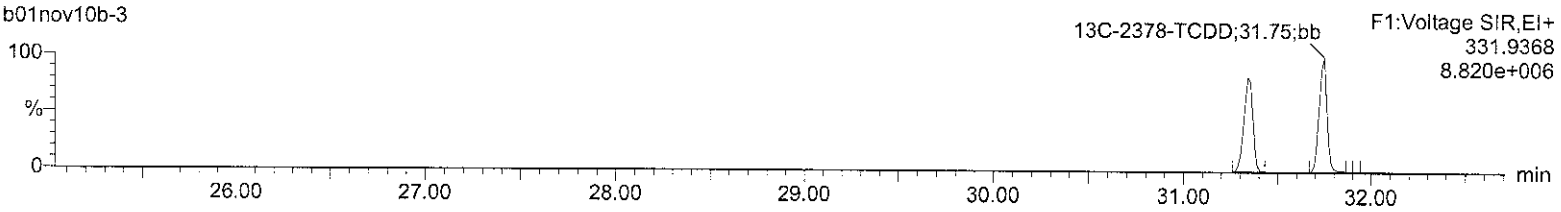
Total-tetradioxins
b01nov10b-3



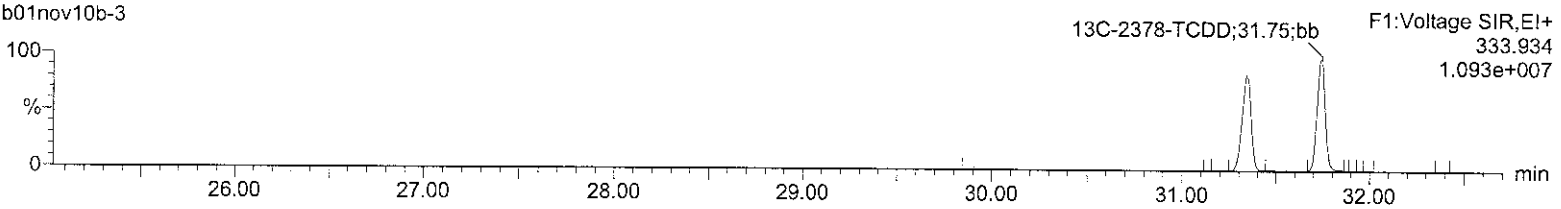
Total-tetradioxins
b01nov10b-3



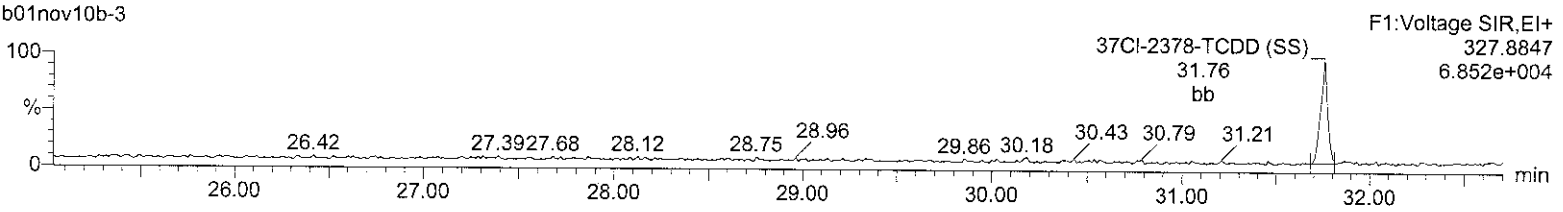
13C-2378-TCDD
b01nov10b-3



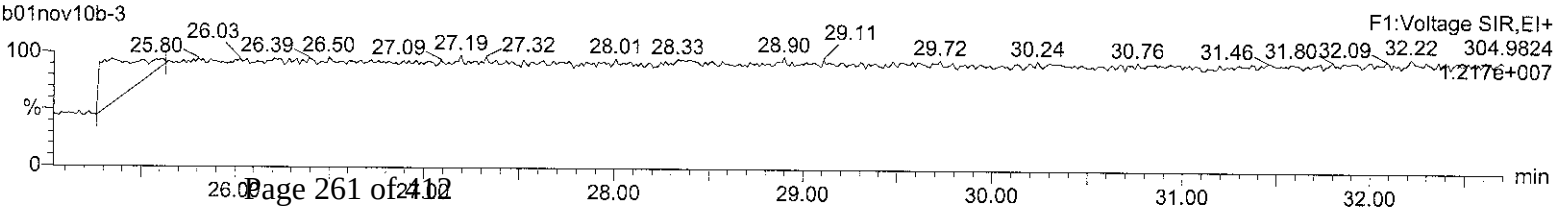
13C-2378-TCDD
b01nov10b-3



37Cl-2378-TCDD (SS)
b01nov10b-3



Lock Mass F1
b01nov10b-3



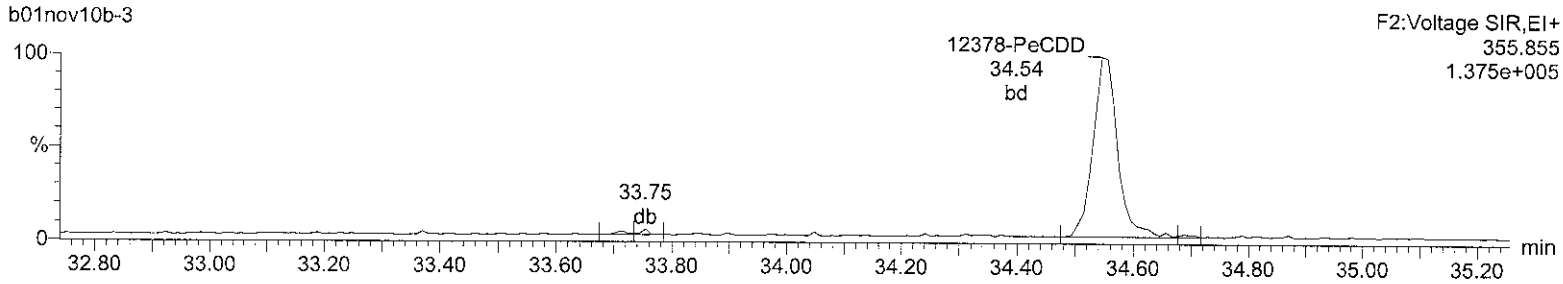
Quantify Sample Report **MassLynx 4.1**
Method 8290 ICAL Report

Dataset: C:\MassLynx\Default.pro\ICAL Results\8290-b01nov10b.qld

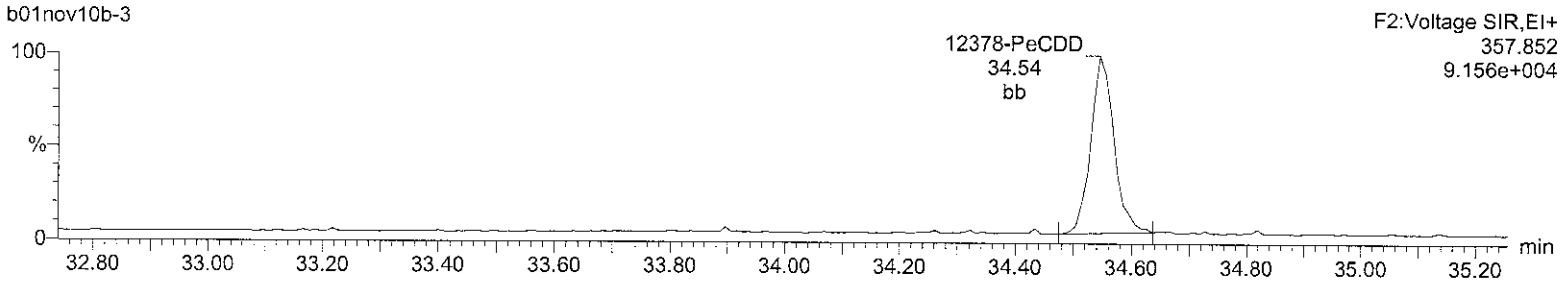
Last Altered: Tuesday, November 02, 2010 08:16:46 Eastern Standard Time
Printed: Tuesday, November 02, 2010 08:17:27 Eastern Standard Time

Name: b01nov10b-3, Date: 01-Nov-2010, Time: 19:16:15, ID: CS0.5 UD101022-01, Description: , Job: b01nov10b, Task: HRP763_1, User: MJC

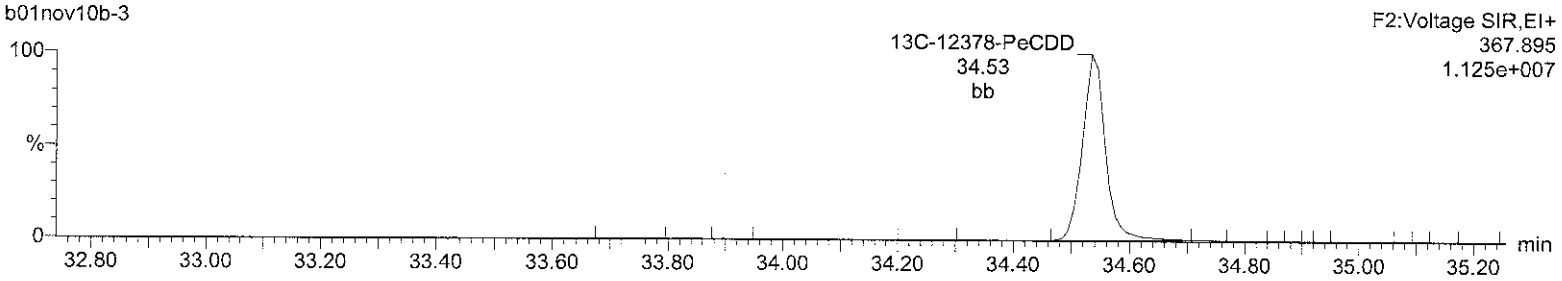
Total-pentadioxins



Total-pentadioxins



13C-12378-PeCDD



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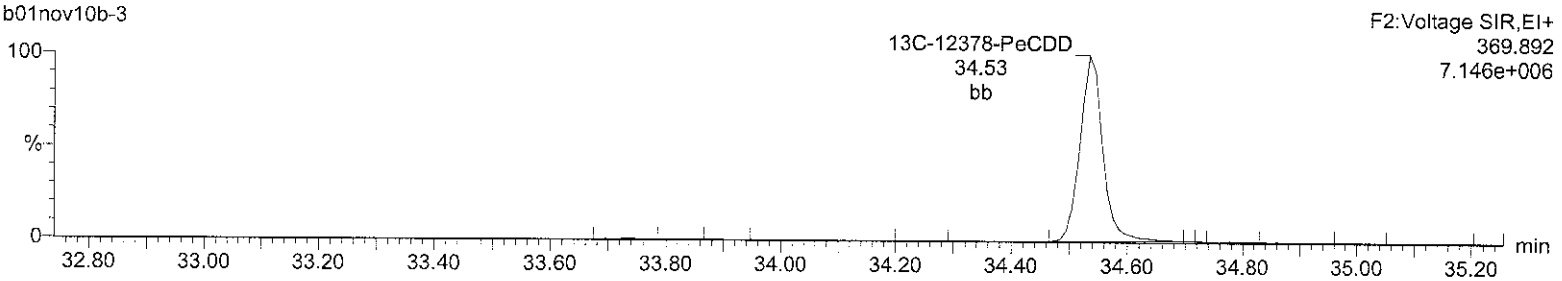
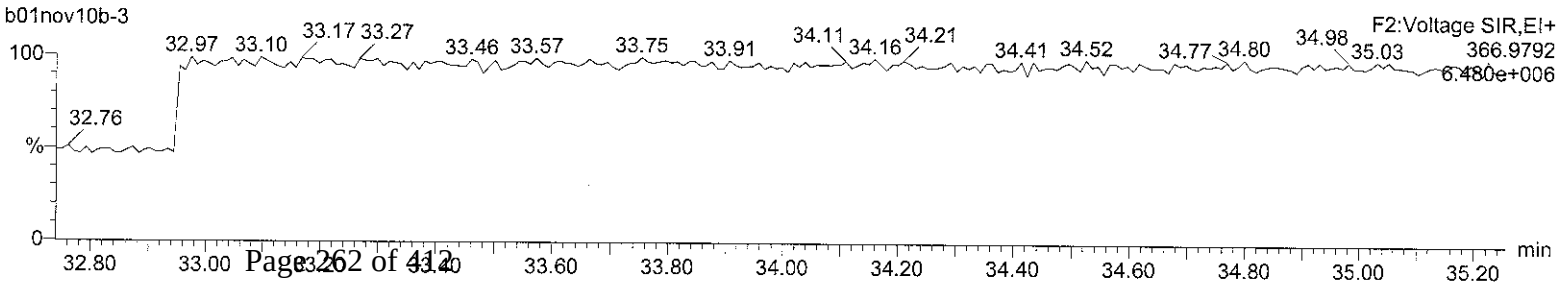


Lock Mass F2



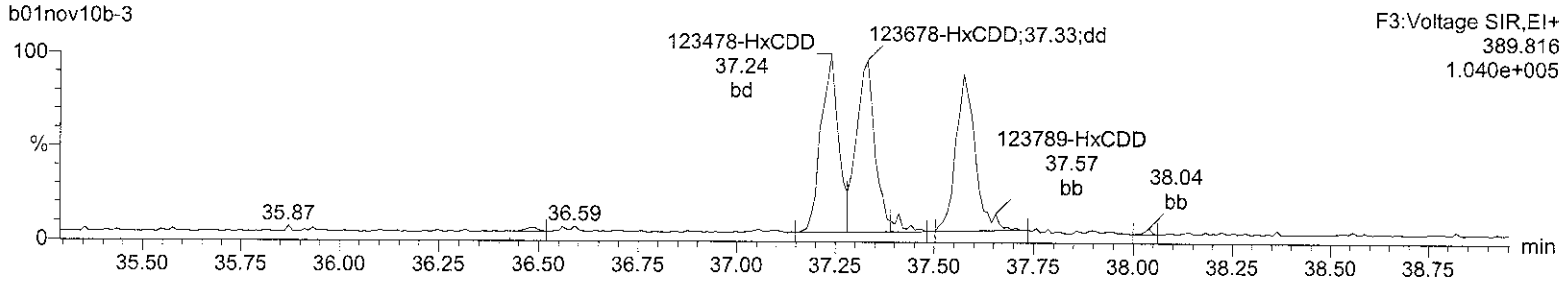
Quantify Sample Report **MassLynx 4.1**
Method 8290 ICAL Report

Dataset: C:\MassLynx\Default.pro\ICAL Results\8290-b01nov10b.qld

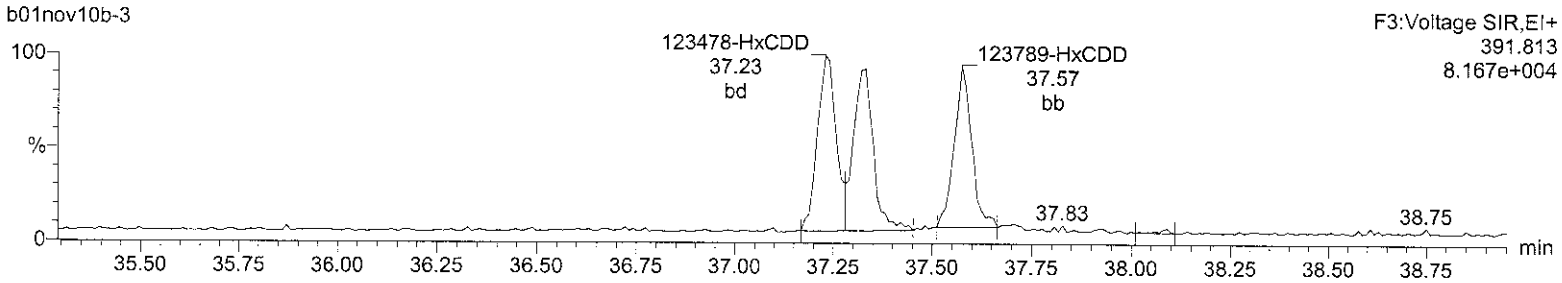
Last Altered: Tuesday, November 02, 2010 08:16:46 Eastern Standard Time
Printed: Tuesday, November 02, 2010 08:17:27 Eastern Standard Time

Name: b01nov10b-3, Date: 01-Nov-2010, Time: 19:16:15, ID: CS0.5 UD101022-01, Description: , Job: b01nov10b, Task: HRP763_1, User: MJC

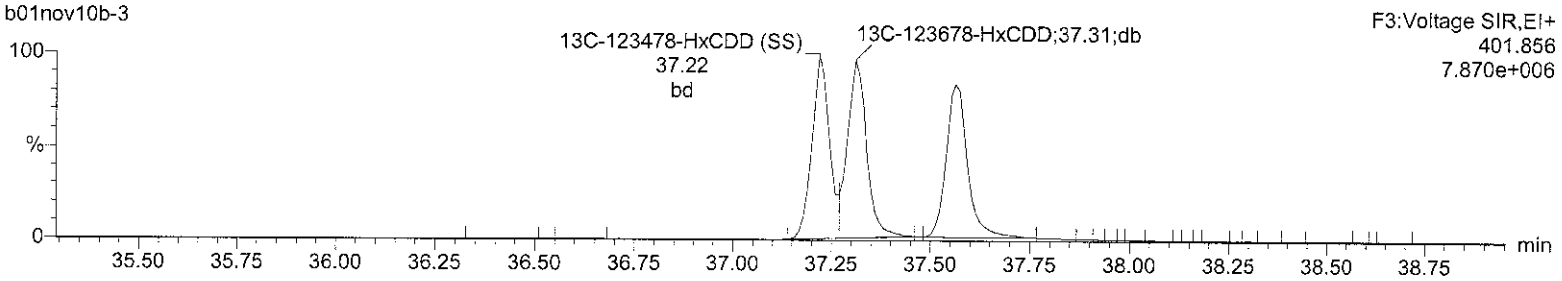
Total-hexadioxins



Total-hexadioxins



13C-123678-HxCDD



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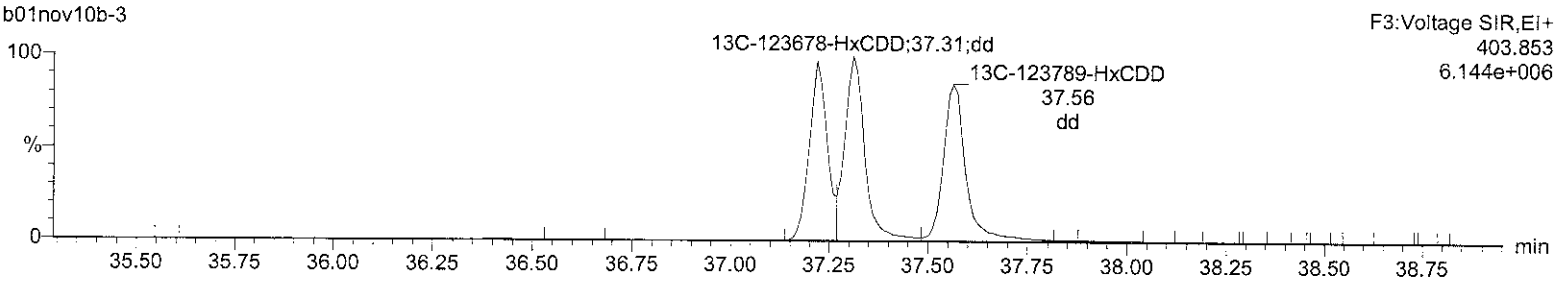
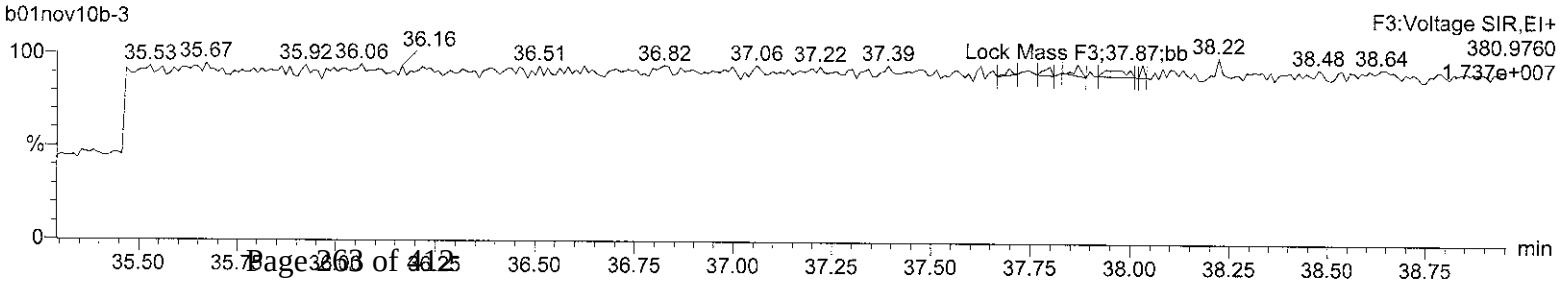


Lock Mass F3



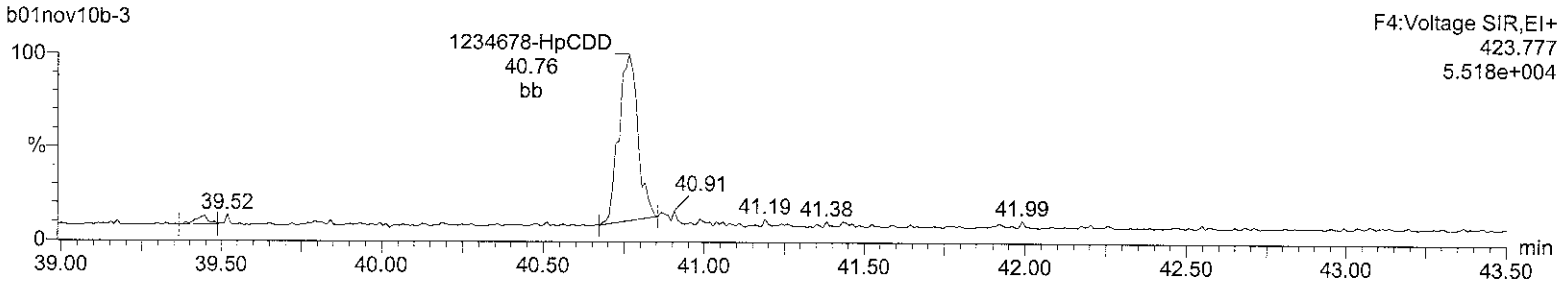
Quantify Sample Report **MassLynx 4.1**
Method 8290 ICAL Report

Dataset: C:\MassLynx\Default.pro\ICAL Results\8290-b01nov10b.qld

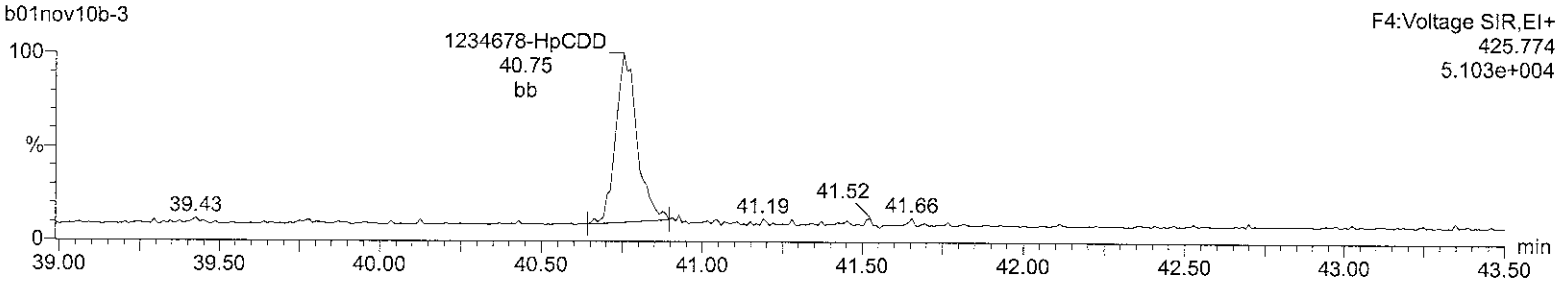
Last Altered: Tuesday, November 02, 2010 08:16:46 Eastern Standard Time
Printed: Tuesday, November 02, 2010 08:17:27 Eastern Standard Time

Name: b01nov10b-3, Date: 01-Nov-2010, Time: 19:16:15, ID: CS0.5 UD101022-01, Description: , Job: b01nov10b, Task: HRP763_1, User: MJC

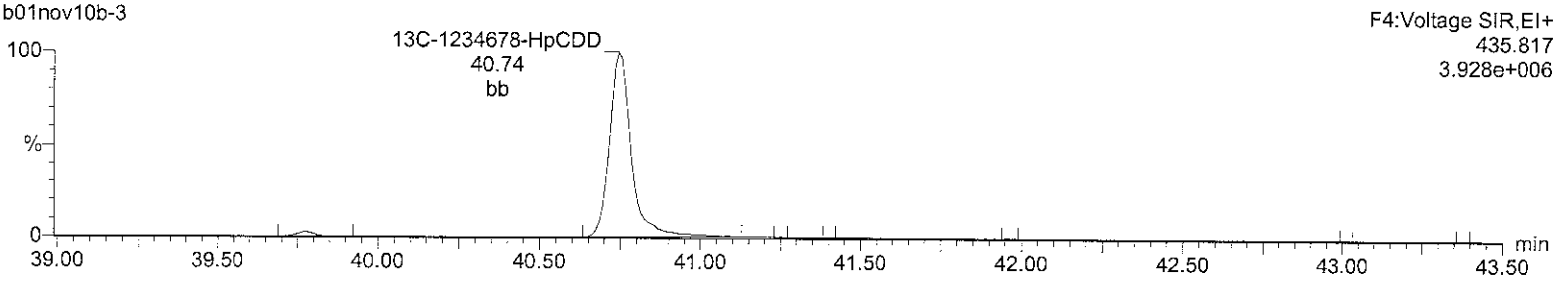
Total-heptadioxins



Total-heptadioxins



13C-1234678-HpCDD



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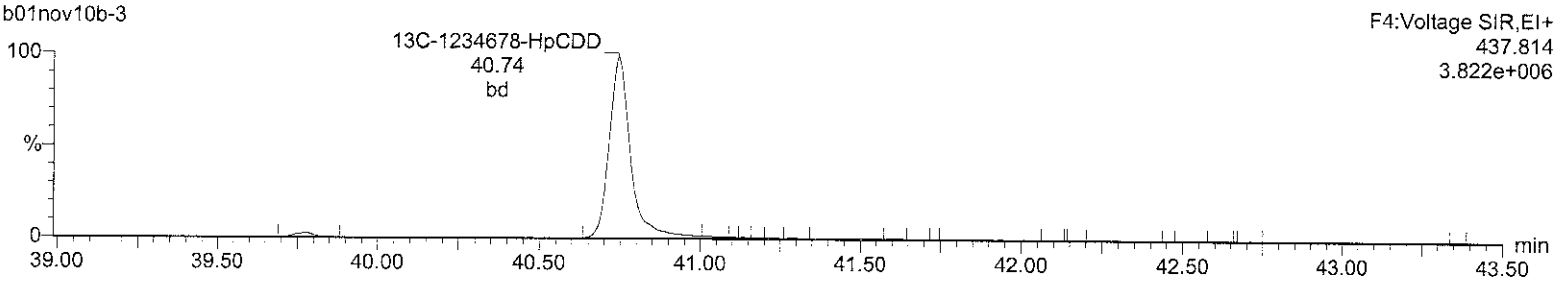
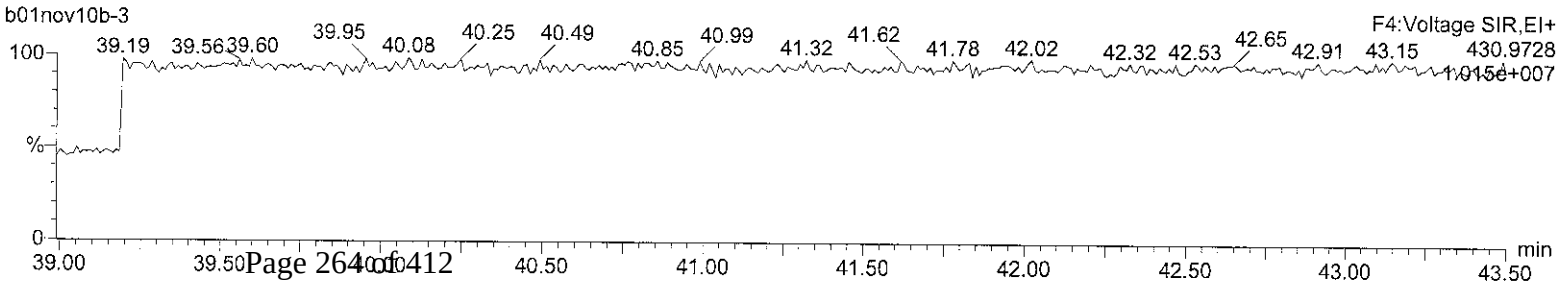


Lock Mass F4



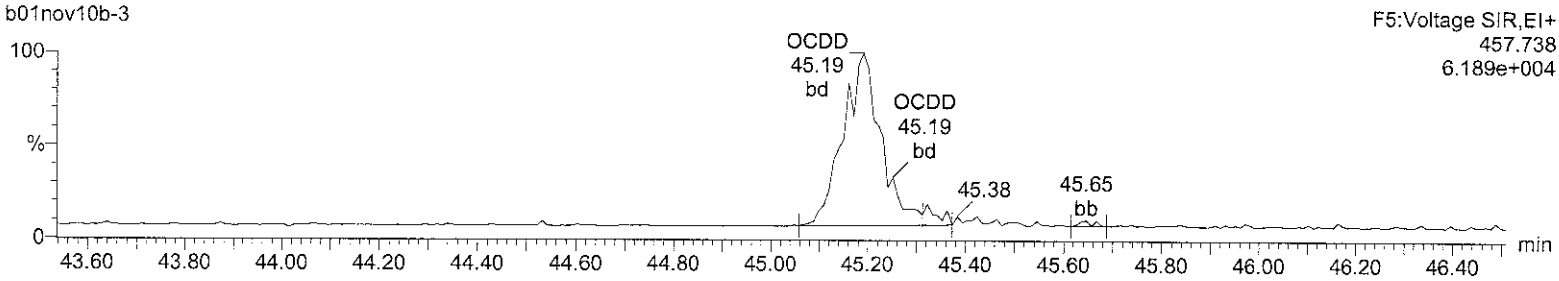
Quantify Sample Report **MassLynx 4.1**
Method 8290 ICAL Report

Dataset: C:\MassLynx\Default.pro\ICAL Results\8290-b01nov10b.qld

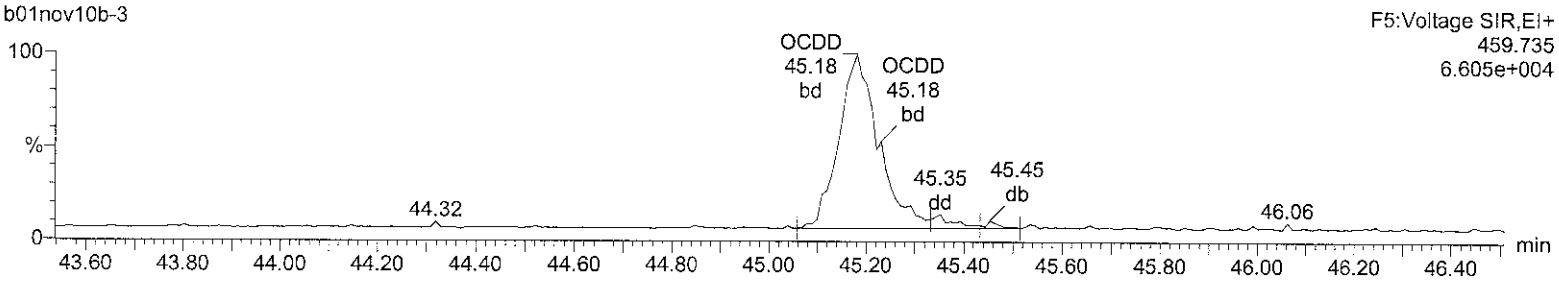
Last Altered: Tuesday, November 02, 2010 08:16:46 Eastern Standard Time
Printed: Tuesday, November 02, 2010 08:17:27 Eastern Standard Time

Name: b01nov10b-3, Date: 01-Nov-2010, Time: 19:16:15, ID: CS0.5 UD101022-01, Description: , Job: b01nov10b, Task: HRP763_1, User: MJC

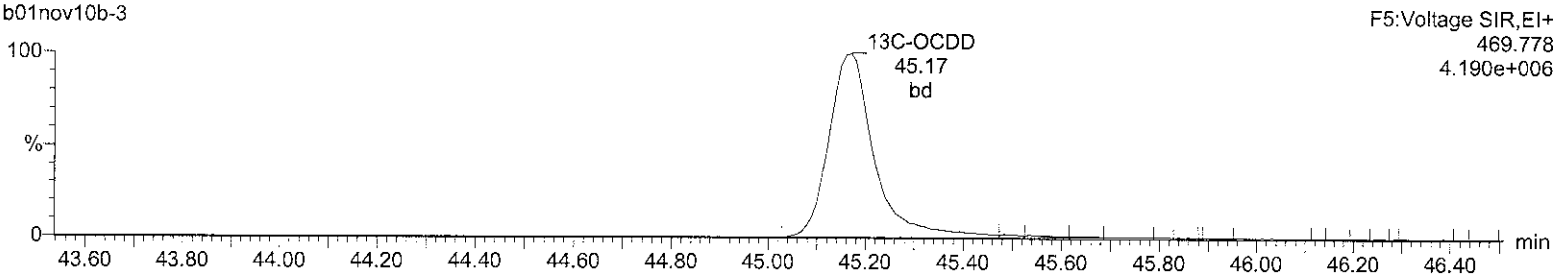
OCDD



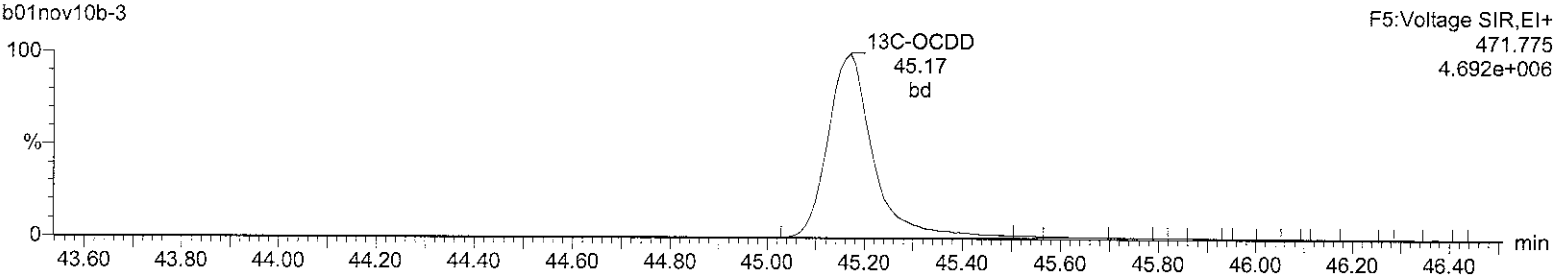
OCDD



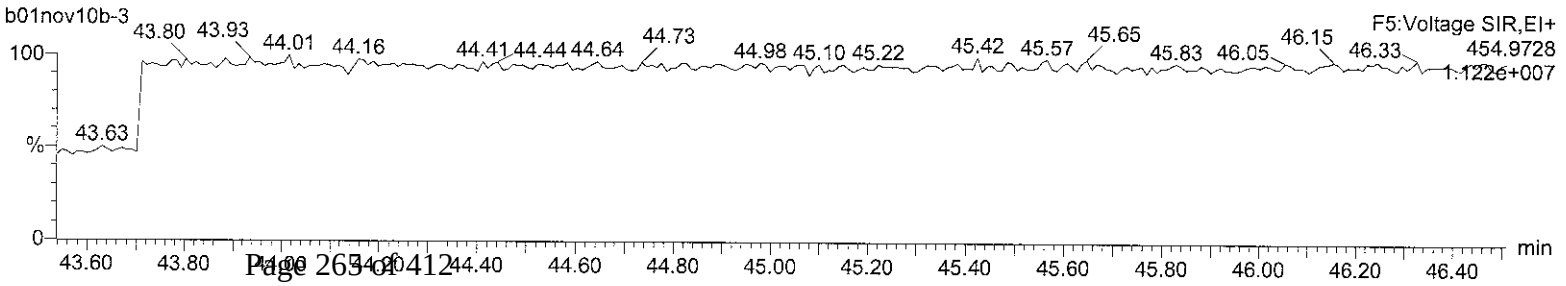
13C-OCDD



13C-OCDD



Lock Mass F5



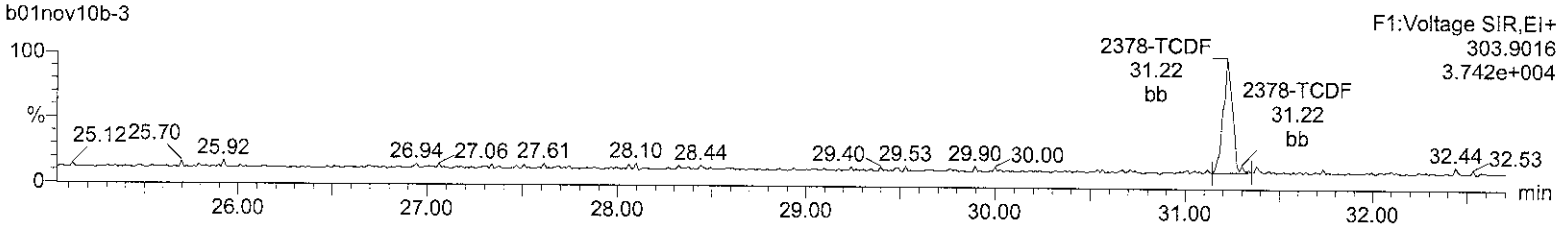
Quantify Sample Report **MassLynx 4.1**
Method 8290 ICAL Report

Dataset: C:\MassLynx\Default.pro\ICAL Results\8290-b01nov10b.qld

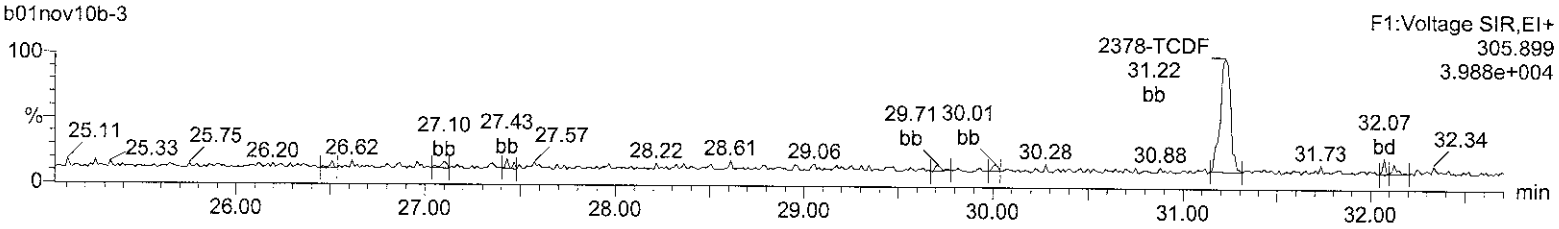
Last Altered: Tuesday, November 02, 2010 08:16:46 Eastern Standard Time
Printed: Tuesday, November 02, 2010 08:17:27 Eastern Standard Time

Name: b01nov10b-3, Date: 01-Nov-2010, Time: 19:16:15, ID: CS0.5 UD101022-01, Description: , Job: b01nov10b, Task: HRP763_1, User: MJC

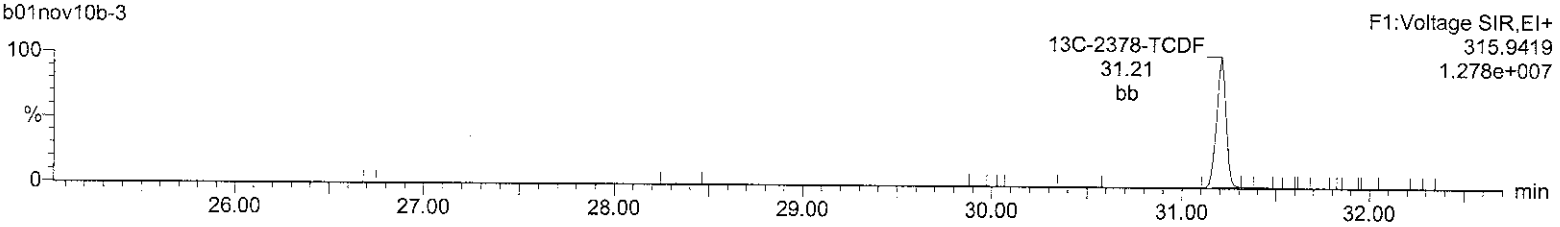
Total-tetrafurans
b01nov10b-3



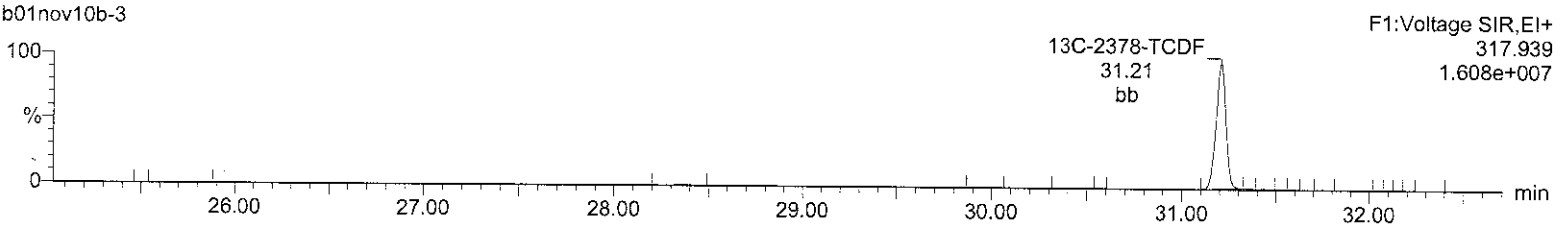
Total-tetrafurans
b01nov10b-3



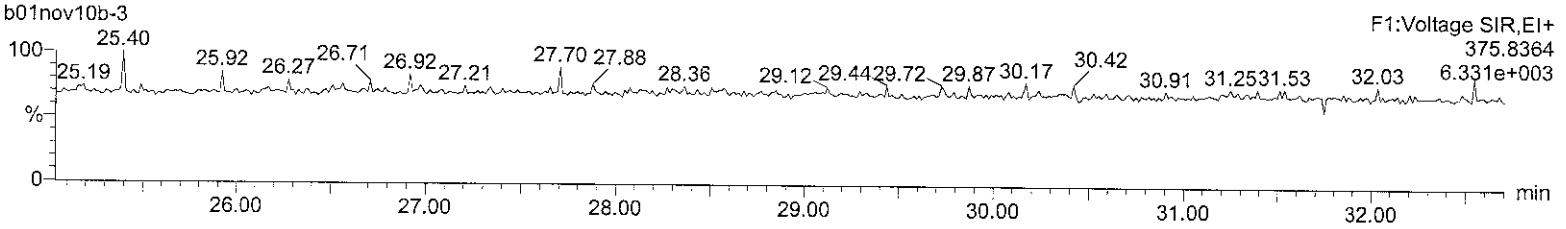
13C-2378-TCDF
b01nov10b-3



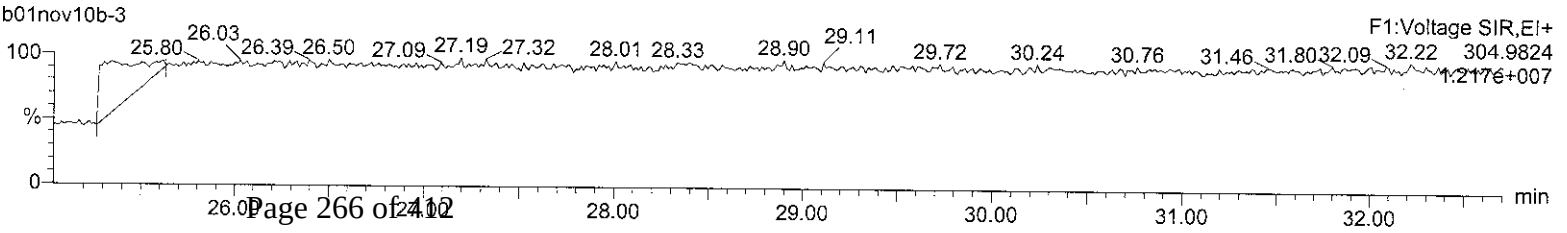
13C-2378-TCDF
b01nov10b-3



HxDPE
b01nov10b-3



Lock Mass F1
b01nov10b-3



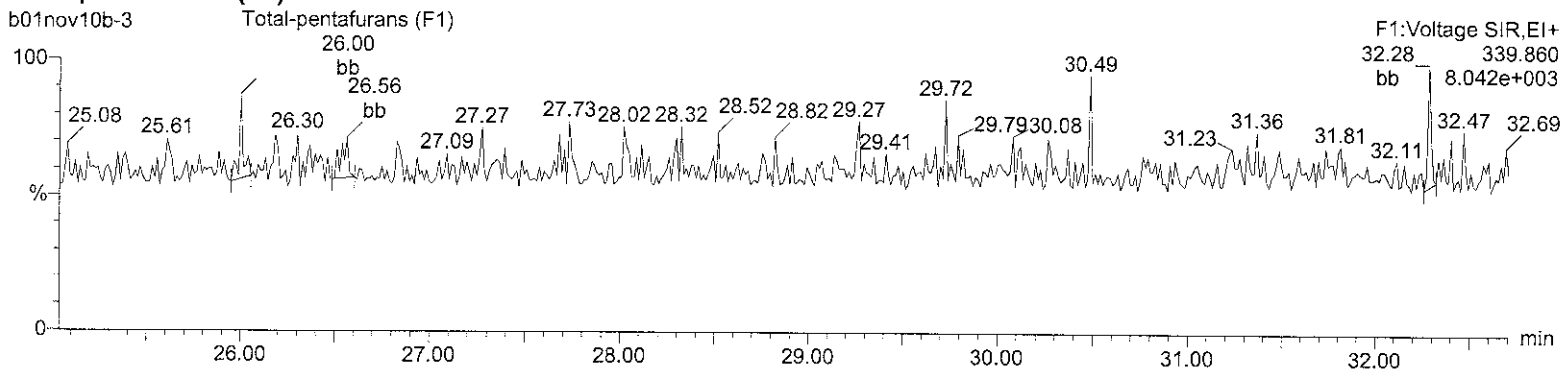
Quantify Sample Report **MassLynx 4.1**
Method 8290 ICAL Report

Dataset: C:\MassLynx\Default.pro\ICAL Results\8290-b01nov10b.qld

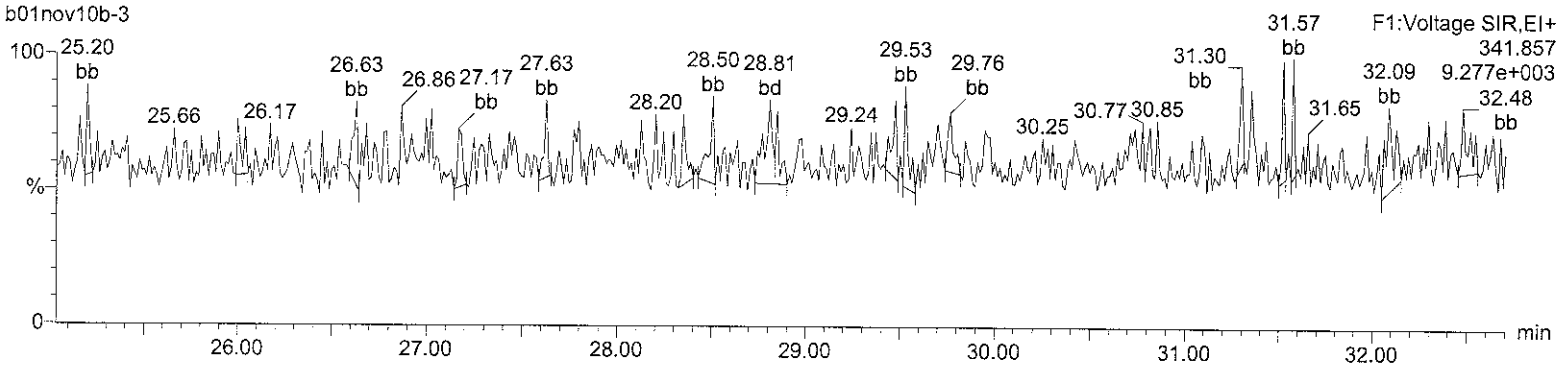
Last Altered: Tuesday, November 02, 2010 08:16:46 Eastern Standard Time
Printed: Tuesday, November 02, 2010 08:17:27 Eastern Standard Time

Name: b01nov10b-3, Date: 01-Nov-2010, Time: 19:16:15, ID: CS0.5 UD101022-01, Description: , Job: b01nov10b, Task: HRP763_1, User: MJC

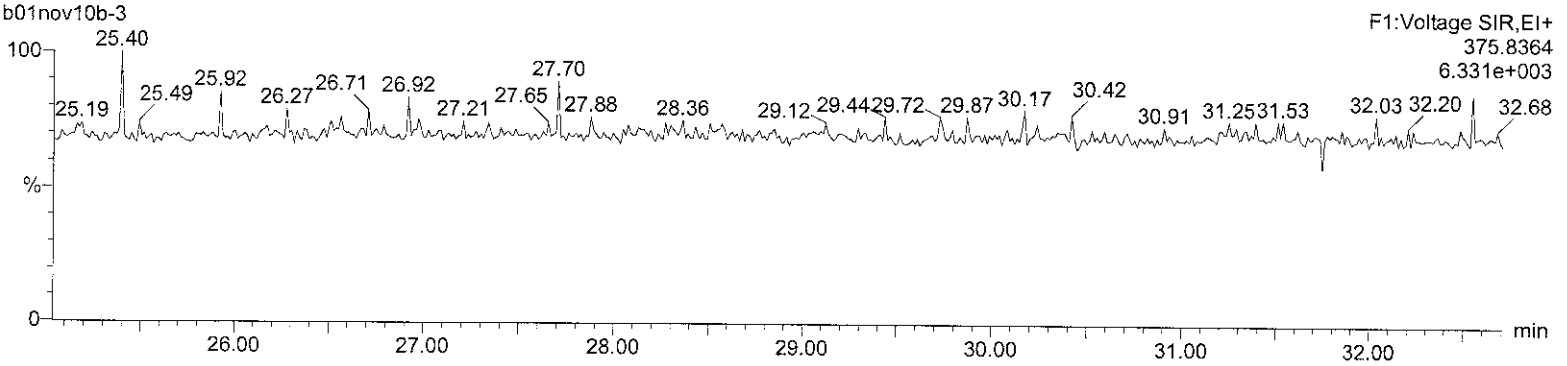
Total-pentafurans (F1)



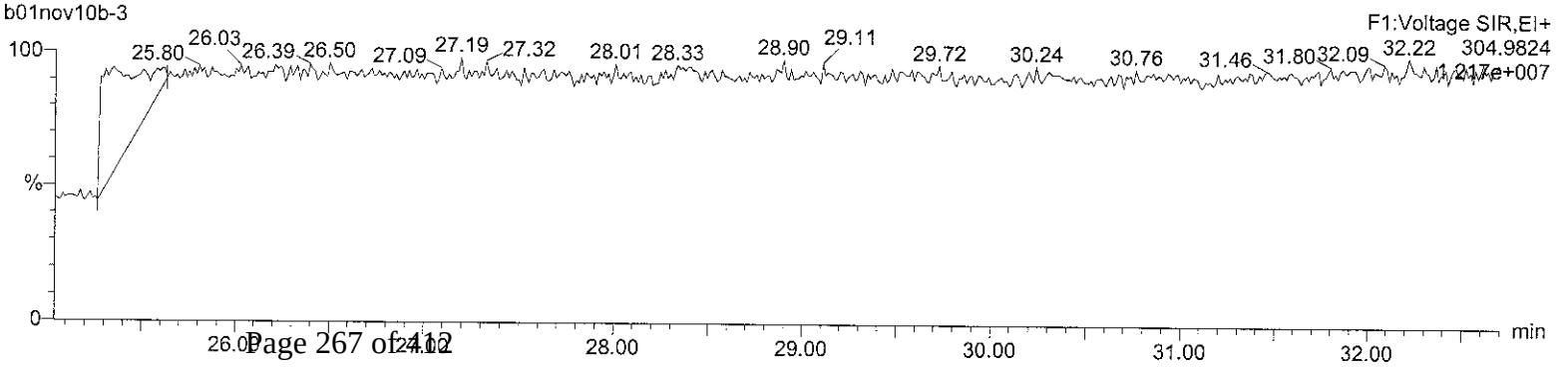
Total-pentafurans (F1)



HxDPE



Lock Mass F1



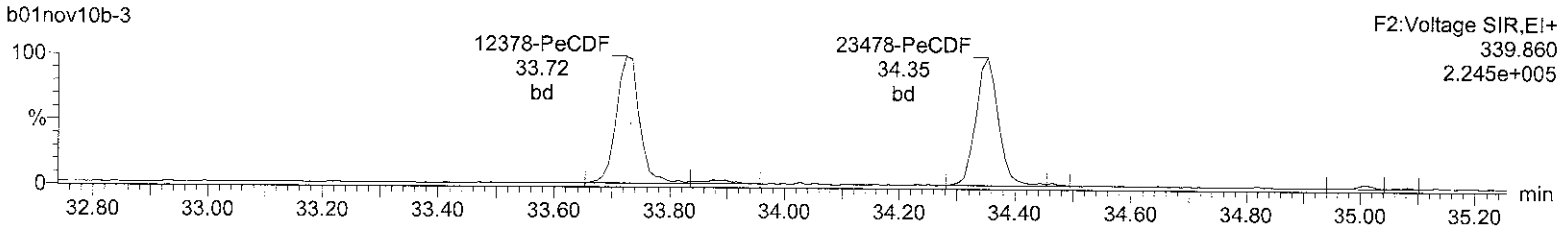
Quantify Sample Report **MassLynx 4.1**
Method 8290 ICAL Report

Dataset: C:\MassLynx\Default.pro\ICAL Results\8290-b01nov10b.qld

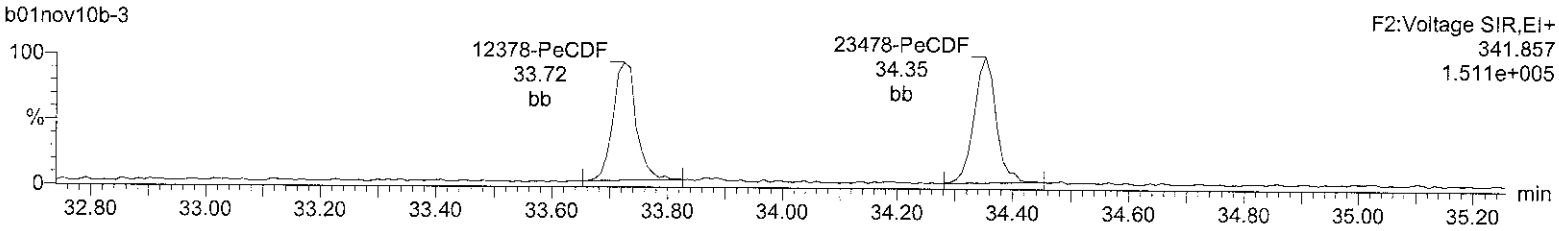
Last Altered: Tuesday, November 02, 2010 08:16:46 Eastern Standard Time
Printed: Tuesday, November 02, 2010 08:17:27 Eastern Standard Time

Name: b01nov10b-3, Date: 01-Nov-2010, Time: 19:16:15, ID: CS0.5 UD101022-01, Description: , Job: b01nov10b, Task: HRP763_1, User: MJC

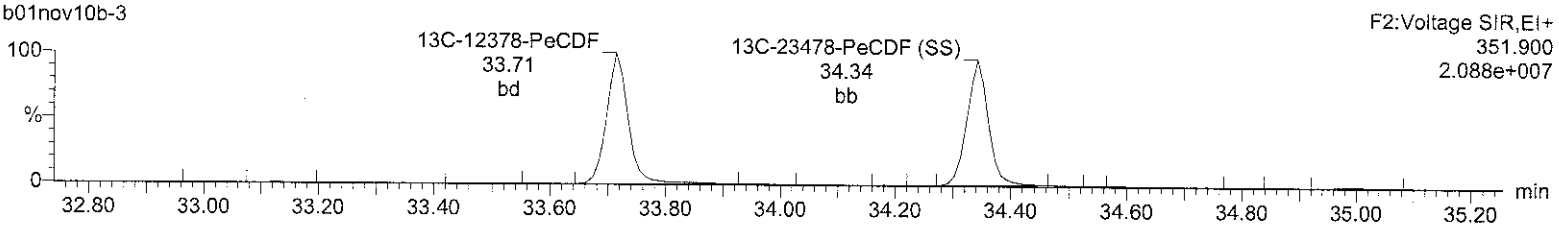
Total-pentafurans



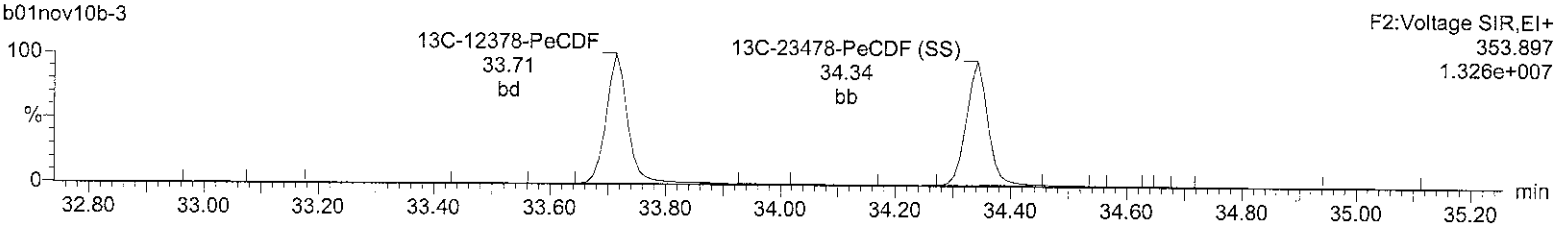
Total-pentafurans



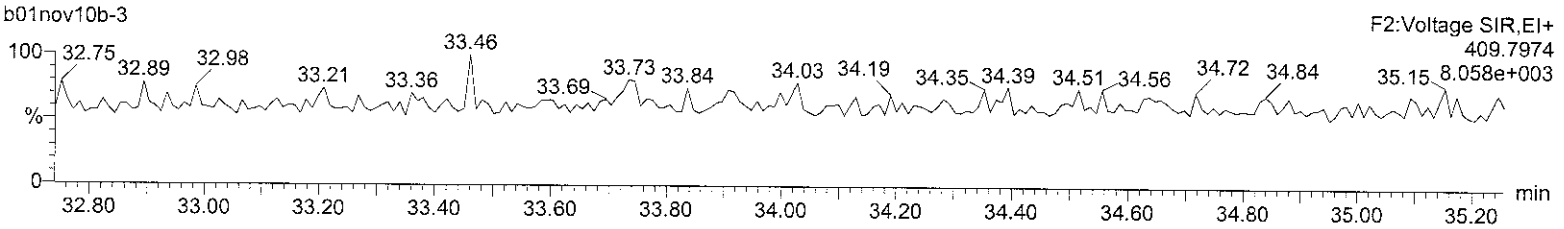
13C-12378-PeCDF



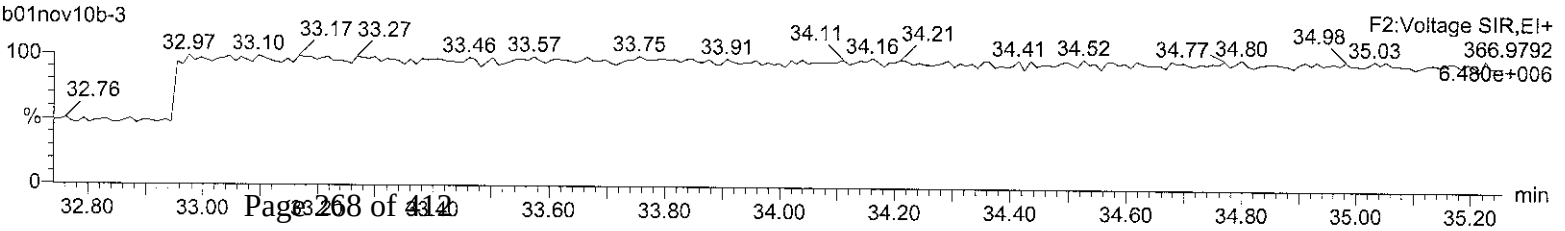
13C-12378-PeCDF



HpDPE



Lock Mass F2



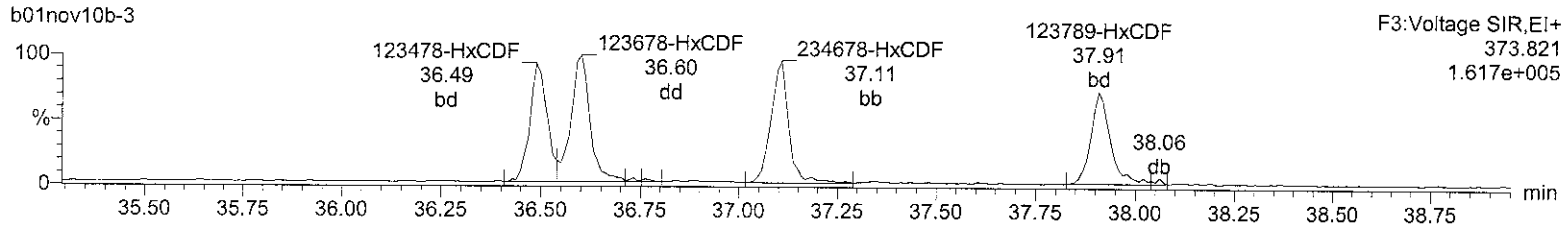
Quantify Sample Report **MassLynx 4.1**
Method 8290 ICAL Report

Dataset: C:\MassLynx\Default.pro\ICAL Results\8290-b01nov10b.qld

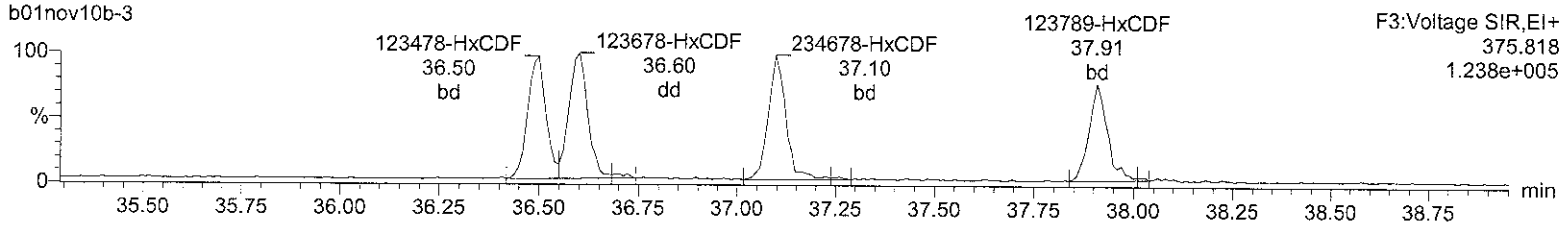
Last Altered: Tuesday, November 02, 2010 08:16:46 Eastern Standard Time
Printed: Tuesday, November 02, 2010 08:17:27 Eastern Standard Time

Name: b01nov10b-3, Date: 01-Nov-2010, Time: 19:16:15, ID: CS0.5 UD101022-01, Description: , Job: b01nov10b, Task: HRP763_1, User: MJC

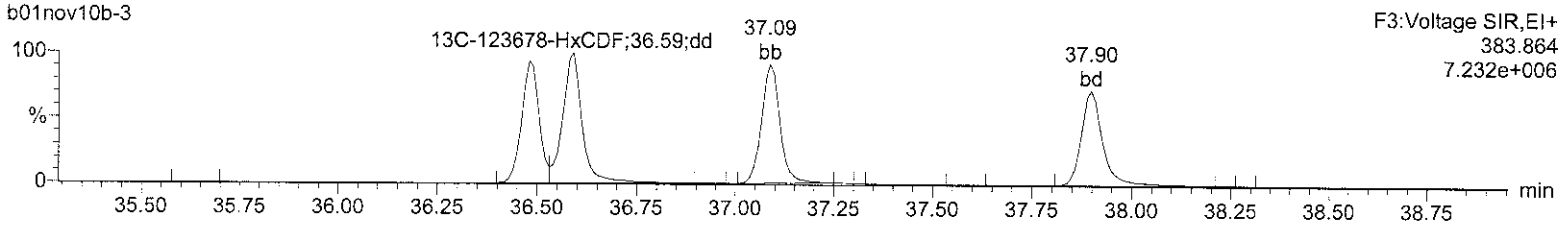
Total-hexafurans



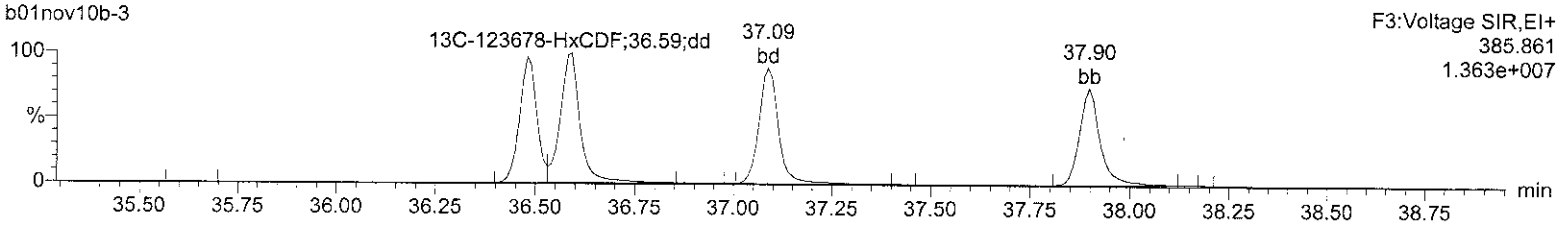
Total-hexafurans



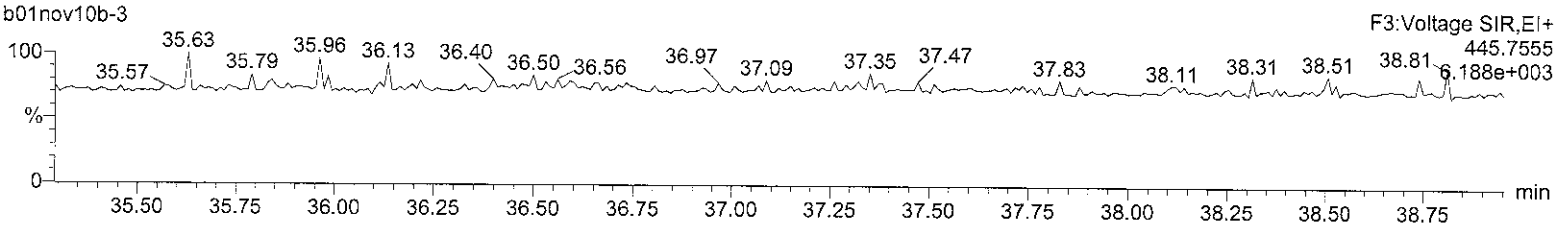
13C-123678-HxCDF



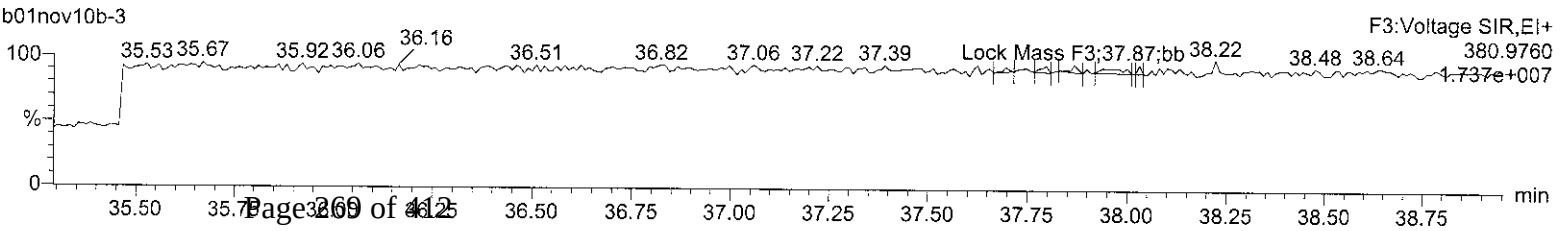
13C-123678-HxCDF



OcDPE



Lock Mass F3



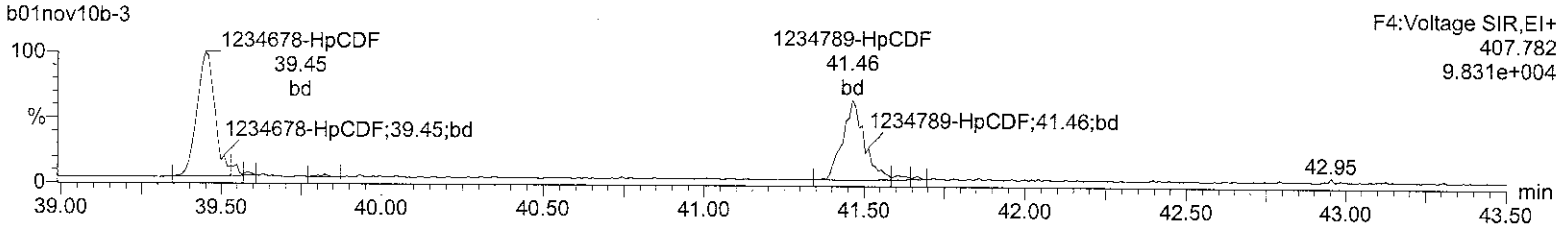
Quantify Sample Report **MassLynx 4.1**
Method 8290 ICAL Report

Dataset: C:\MassLynx\Default.pro\ICAL Results\8290-b01nov10b.qld

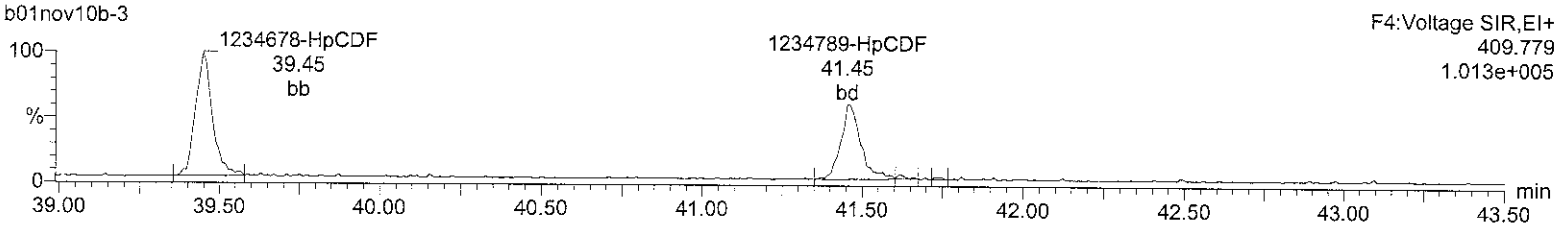
Last Altered: Tuesday, November 02, 2010 08:16:46 Eastern Standard Time
Printed: Tuesday, November 02, 2010 08:17:27 Eastern Standard Time

Name: b01nov10b-3, Date: 01-Nov-2010, Time: 19:16:15, ID: CS0.5 UD101022-01, Description: , Job: b01nov10b, Task: HRP763_1, User: MJC

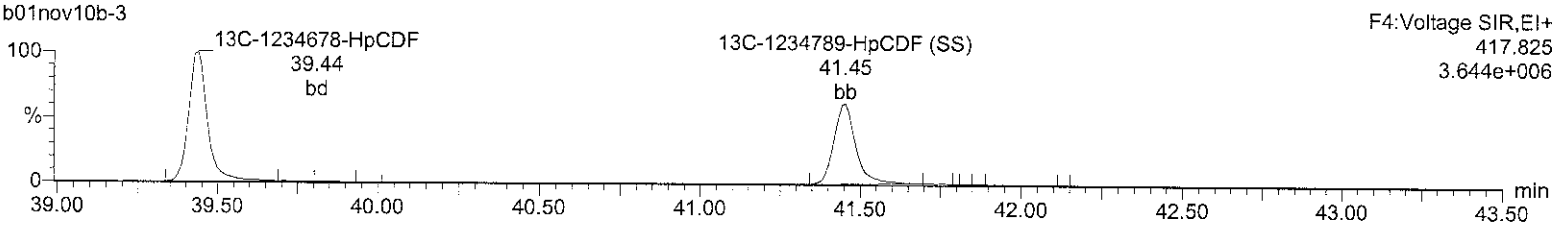
Total-heptafurans



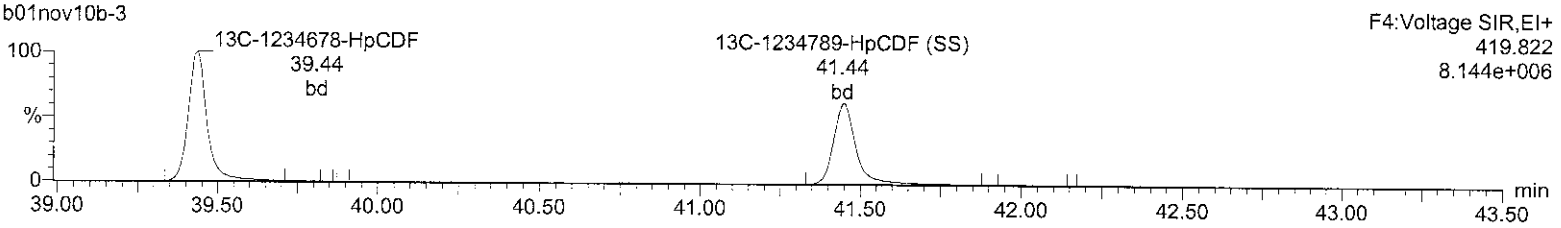
Total-heptafurans



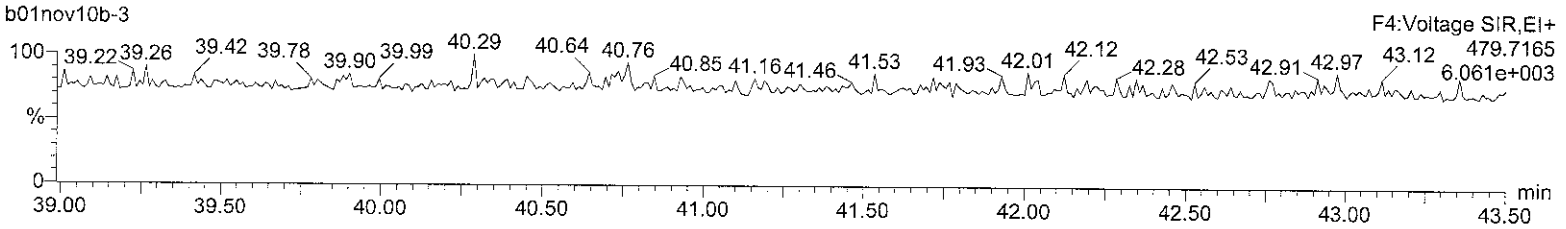
13C-1234678-HpCDF



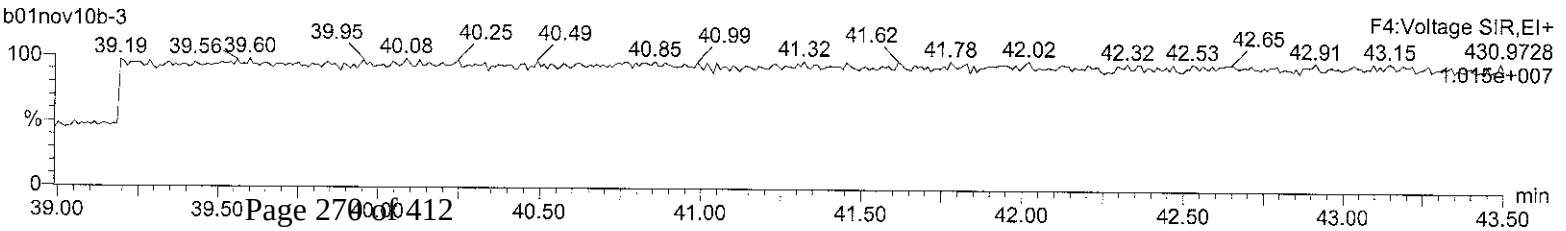
13C-1234678-HpCDF



NoDPE



Lock Mass F4



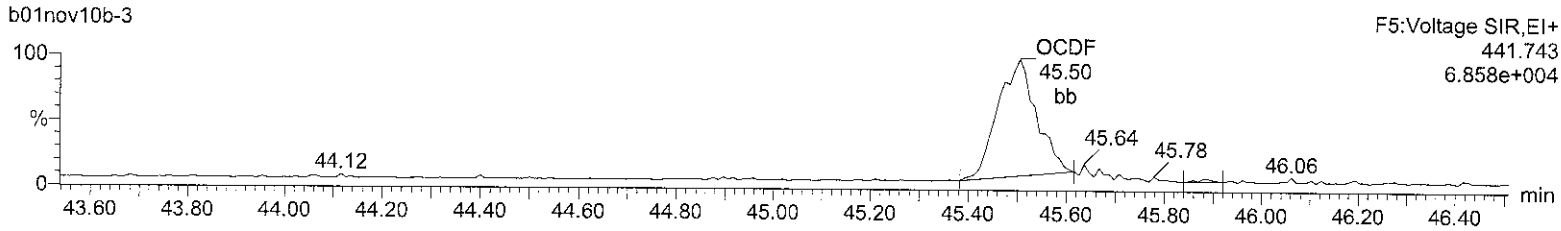
Quantify Sample Report **MassLynx 4.1**
Method 8290 ICAL Report

Dataset: C:\MassLynx\Default.pro\ICAL Results\8290-b01nov10b.qld

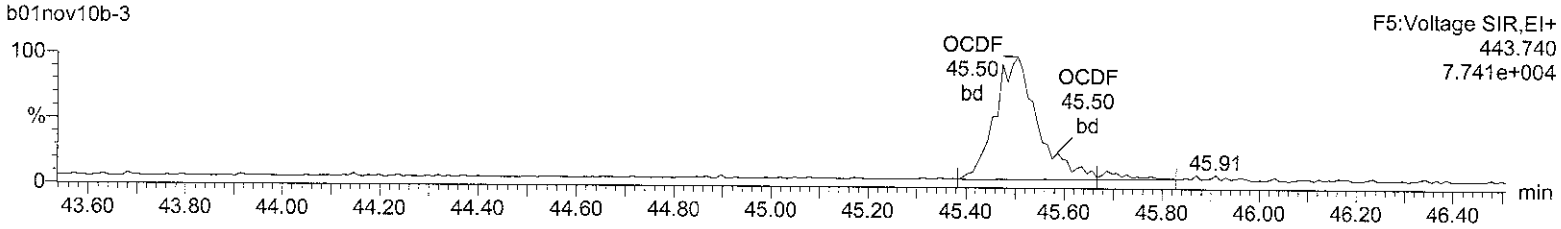
Last Altered: Tuesday, November 02, 2010 08:16:46 Eastern Standard Time
Printed: Tuesday, November 02, 2010 08:17:27 Eastern Standard Time

Name: b01nov10b-3, Date: 01-Nov-2010, Time: 19:16:15, ID: CS0.5 UD101022-01, Description: , Job: b01nov10b, Task: HRP763_1, User: MJC

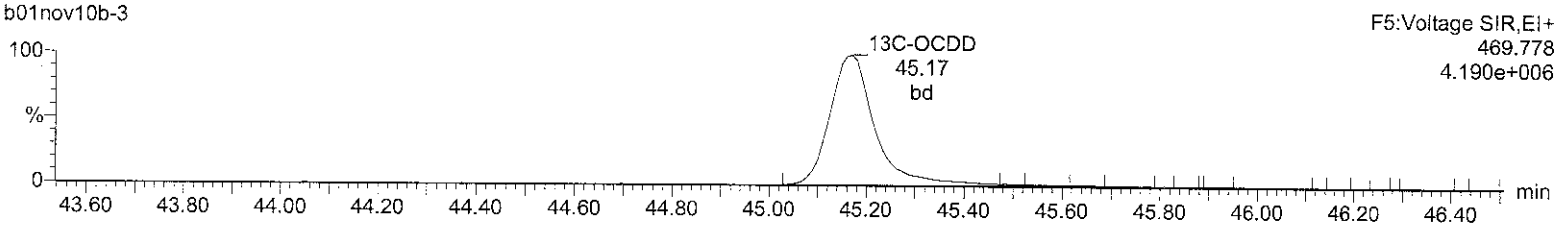
OCDF



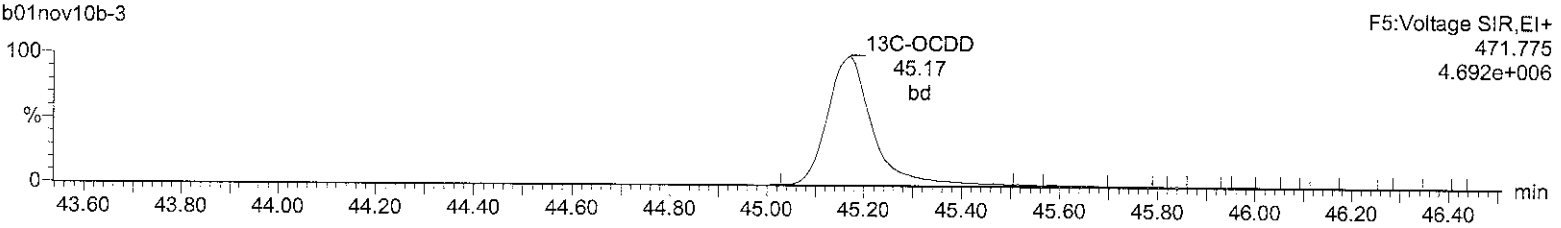
OCDF



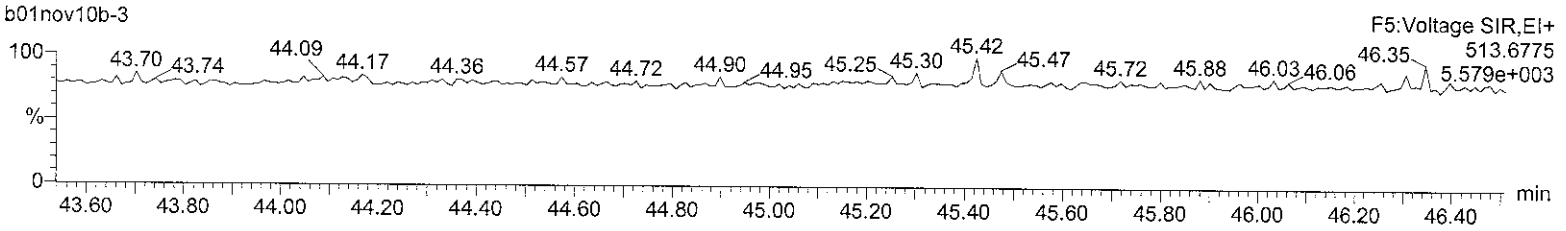
13C-OCDD



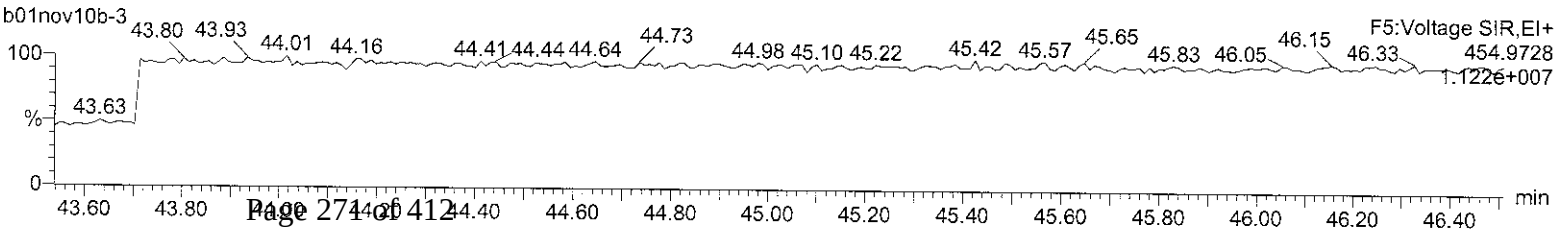
13C-OCDD



DeDPE



Lock Mass F5



Quantify Sample Summary Report **MassLynx 4.1**
Method 8290 ICAL Report

Dataset: C:\MassLynx\Default.pro\ICAL Results\8290-b01nov10b.qld

Last Altered: Tuesday, November 02, 2010 08:19:01 Eastern Standard Time
Printed: Tuesday, November 02, 2010 08:23:00 Eastern Standard Time

Name: b01nov10b-4, Date: 01-Nov-2010, Time: 20:04:39, ID: CS1 UD090323-02, Description: , Job: b01nov10b, Task: HRP763_1, User: MJC

	Name	Ion1Area	Ion2Area	Response	RT	RRT	RA	Fail?	pg/uL	RRF	EDL	Height1	Noise1	S/N1	Height2	Noise2	S/N2	M
1	2378-TCDD	2.34e3	2.88e3	5.21e3	31.76	1.00	0.81	NO	0.457	0.926	0.0225	4.38e4	774	56.6	5.99e4	988	60.6	bb
2	12378-PeCDD	1.31e4	8.13e3	2.12e4	34.56	1.00	1.61	NO	2.367	0.977	0.0466	2.74e5	1357	202.2	1.68e5	1475	113.6	bb
3	123478-HxCDD	9.88e3	8.07e3	1.79e4	37.23	1.00	1.22	NO	2.387	0.856	0.0560	1.93e5	1232	156.3	1.45e5	1244	116.8	bd
4	123678-HxCDD	1.10e4	8.53e3	1.95e4	37.33	1.00	1.29	NO	2.409	0.932	0.0519	1.91e5	1232	154.8	1.50e5	1244	120.8	dd
5	123789-HxCDD	9.57e3	7.41e3	1.70e4	37.58	1.01	1.29	NO	2.339	0.810	0.0580	1.62e5	1232	131.2	1.34e5	1244	107.8	bb
6	1234678-HpCDD	7.24e3	7.20e3	1.44e4	40.77	1.00	1.01	NO	2.380	0.957	0.0782	9.17e4	1195	76.7	9.16e4	844	108.5	bd
7	OCDD	1.06e4	1.23e4	2.28e4	45.19	1.00	0.86	NO	4.682	0.932	0.151	1.10e5	774	142.1	1.24e5	1545	80.4	bd
8	2378-TCDF	3.44e3	4.69e3	8.13e3	31.22	1.00	0.73	NO	0.474	0.932	0.0187	5.54e4	663	83.5	7.56e4	1197	63.1	bb
9	12378-PeCDF	2.13e4	1.35e4	3.48e4	33.72	1.00	1.58	NO	2.412	0.901	0.0421	4.80e5	1343	357.0	3.16e5	3194	99.1	bd
10	23478-PeCDF	2.03e4	1.31e4	3.34e4	34.35	1.02	1.55	NO	2.368	0.866	0.0430	4.57e5	1343	340.2	3.11e5	3194	97.4	bb
11	123478-HxCDF	1.54e4	1.23e4	2.77e4	36.49	1.00	1.25	NO	2.451	0.891	0.0586	2.91e5	2063	141.0	2.38e5	1525	156.0	bd
12	123678-HxCDF	1.70e4	1.39e4	3.09e4	36.60	1.00	1.22	NO	2.350	0.994	0.0503	3.10e5	2063	150.5	2.57e5	1525	168.6	dd
13	234678-HxCDF	1.58e4	1.25e4	2.83e4	37.11	1.01	1.27	NO	2.378	0.909	0.0557	2.78e5	2063	134.7	2.20e5	1525	143.9	bd
14	123789-HxCDF	1.33e4	1.04e4	2.36e4	37.92	1.04	1.28	NO	2.398	0.759	0.0672	2.03e5	2063	98.5	1.68e5	1525	110.3	bb
15	1234678-HpCDF	1.29e4	1.18e4	2.47e4	39.45	1.00	1.09	NO	2.339	1.195	0.0467	1.90e5	1061	178.9	1.75e5	1400	125.3	bb
16	1234789-HpCDF	8.72e3	8.95e3	1.77e4	41.46	1.05	0.97	NO	2.296	0.854	0.0641	1.24e5	1061	116.6	1.21e5	1400	86.3	bd
17	OCDF	1.24e4	1.37e4	2.61e4	45.51	1.01	0.91	NO	4.326	1.066	0.127	1.24e5	1141	108.8	1.40e5	1268	110.1	bd
18	13C-2378-TCDD	4.96e5	6.29e5	1.12e6	31.75	1.01	0.79	NO	102.228	1.145	0.0616	1.02e7	2533	4041.6	1.26e7	1591	7914.0	bb
19	13C-12378-PeCDD	5.33e5	3.36e5	8.69e5	34.54	1.10	1.59	NO	93.078	0.884	0.122	1.08e7	4256	2544.2	6.73e6	2677	2514.7	bb
20	13C-123678-HxCDD	4.70e5	3.68e5	8.38e5	37.32	0.99	1.28	NO	98.328	1.093	0.155	8.30e6	3719	2231.1	6.35e6	3448	1842.3	db
21	13C-1234678-HpCDD	3.16e5	2.88e5	6.04e5	40.74	1.08	1.10	NO	98.307	0.787	0.195	4.07e6	3435	1186.0	3.83e6	3088	1240.7	bd
22	13C-OCDD	4.67e5	5.12e5	9.79e5	45.17	1.20	0.91	NO	190.952	0.638	0.368	4.41e6	4486	983.9	4.83e6	5761	839.2	bd
23	13C-2378-TCDF	7.70e5	9.74e5	1.74e6	31.21	1.00	0.79	NO	97.449	1.775	0.0272	1.34e7	1284	10441.6	1.66e7	1680	9895.2	bb
24	13C-12378-PeCDF	9.44e5	5.99e5	1.54e6	33.71	1.08	1.58	NO	92.782	1.570	0.115	2.12e7	5008	4225.5	1.35e7	6587	2051.5	bd
25	13C-123678-HxCDF	4.24e5	8.20e5	1.24e6	36.59	0.97	0.52	NO	99.492	1.622	0.214	6.89e6	6936	993.8	1.34e7	7644	1752.6	dd
26	13C-1234678-HpCDF	2.52e5	5.75e5	8.27e5	39.44	1.05	0.44	NO	99.805	1.079	0.178	3.77e6	3304	1141.4	8.52e6	4738	1798.9	bb
27	13C-1234-TCDD	4.32e5	5.51e5	9.83e5	31.34	0.00	0.79	NO	100.000	1.000	0.0690	7.89e6	2533	3113.8	9.74e6	1591	6121.1	bb
28	13C-123789-HxCDD	4.28e5	3.39e5	7.67e5	37.56	0.00	1.26	NO	100.000	1.000	0.172	6.98e6	3719	1876.8	5.52e6	3448	1601.0	bb
29	37Cl-2378-TCDD (SS)	5.51e3		5.51e3	31.76	1.00			0.465	0.980	0.0156	1.18e5	1273	92.6				bb
30	13C-23478-PeCDF (SS)	8.80e5	5.64e5	1.44e6	34.34	1.02	1.56	NO	100.221	0.935	0.108	2.01e7	5008	4005.6	1.27e7	6587	1931.2	bb
31	13C-123478-HxCDF (SS)	3.46e5	6.72e5	1.02e6	36.48	1.00	0.52	NO	101.046	0.818	0.267	6.94e6	6936	1001.3	1.35e7	7644	1761.1	bd
32	13C-123478-HxCDD (SS)	4.09e5	3.22e5	7.31e5	37.23	1.00	1.27	NO	101.255	0.872	0.169	7.36e6	3719	1978.4	6.02e6	3448	1745.5	bd
33	13C-1234789-HpCDF (SS)	1.88e5	4.31e5	6.19e5	41.45	1.05	0.44	NO	98.982	0.748	0.258	2.45e6	3304	740.6	5.34e6	4738	1127.8	bb

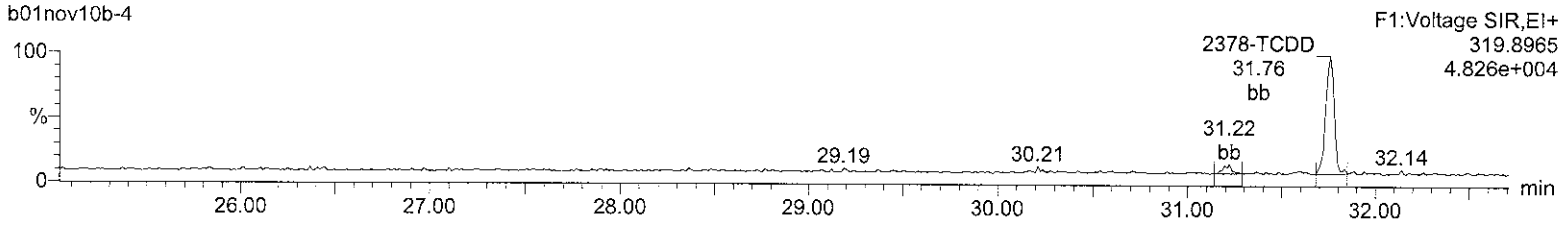
Quantify Sample Report **MassLynx 4.1**
Method 8290 ICAL Report

Dataset: C:\MassLynx\Default.pro\ICAL Results\8290-b01nov10b.qld

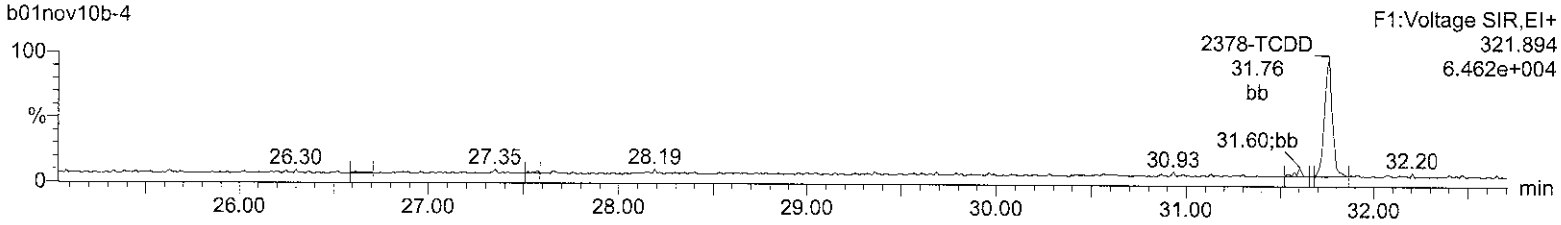
Last Altered: Tuesday, November 02, 2010 08:16:46 Eastern Standard Time
Printed: Tuesday, November 02, 2010 08:17:27 Eastern Standard Time

Name: b01nov10b-4, Date: 01-Nov-2010, Time: 20:04:39, ID: CS1 UD090323-02, Description: , Job: b01nov10b, Task: HRP763_1, User: MJC

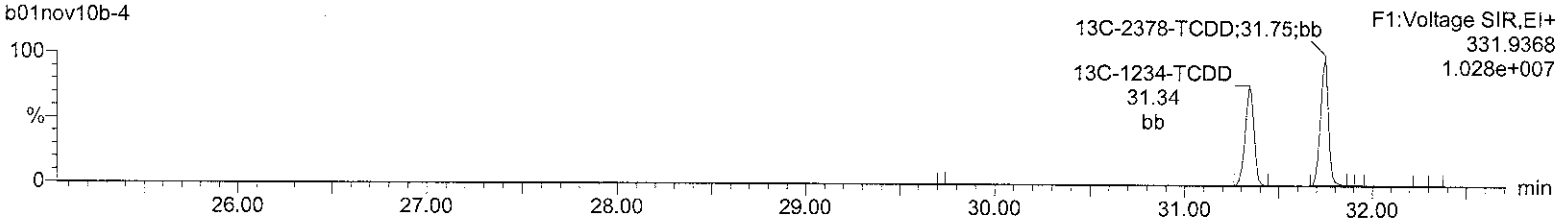
Total-tetradioxins



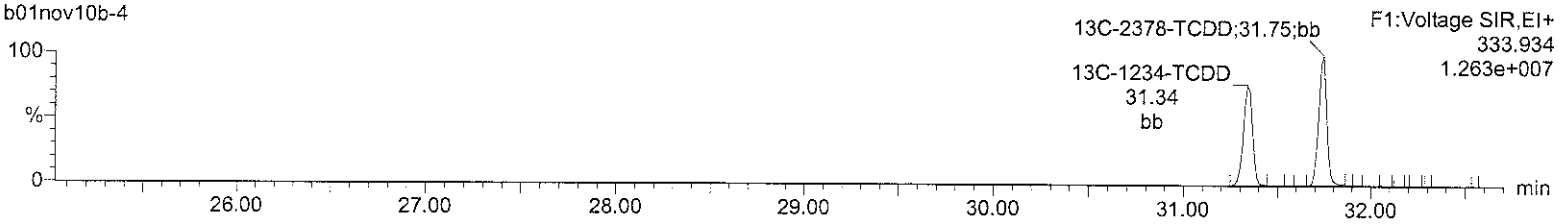
Total-tetradioxins



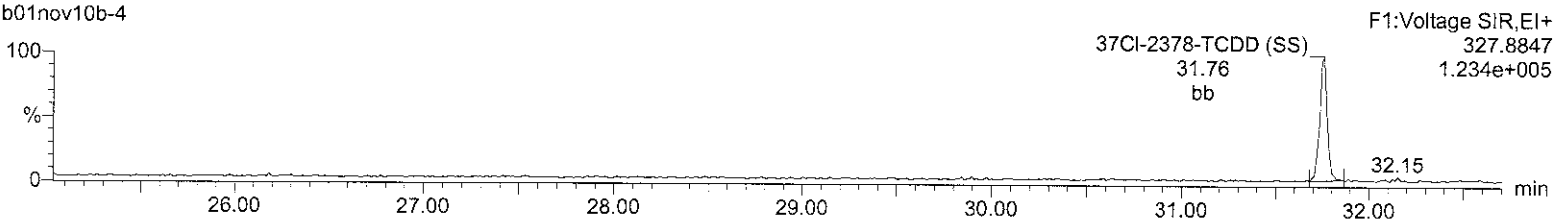
13C-2378-TCDD



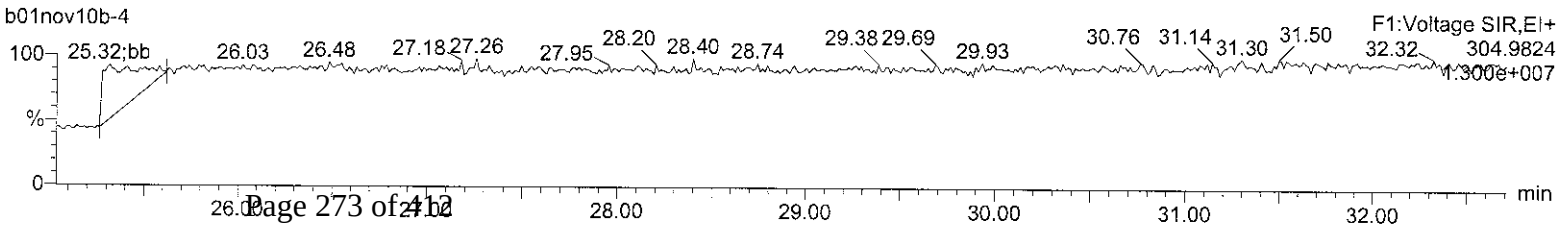
13C-2378-TCDD



37Cl-2378-TCDD (SS)



Lock Mass F1



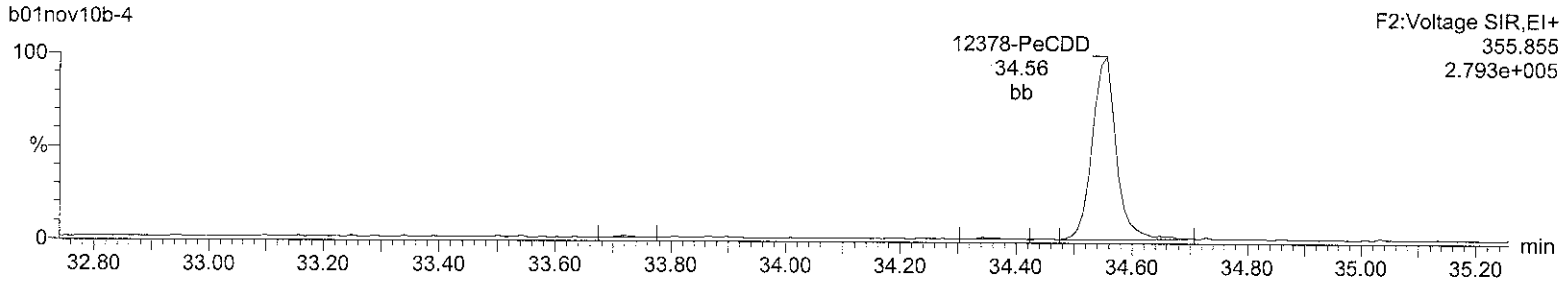
Quantify Sample Report **MassLynx 4.1**
Method 8290 ICAL Report

Dataset: C:\MassLynx\Default.pro\ICAL Results\8290-b01nov10b.qld

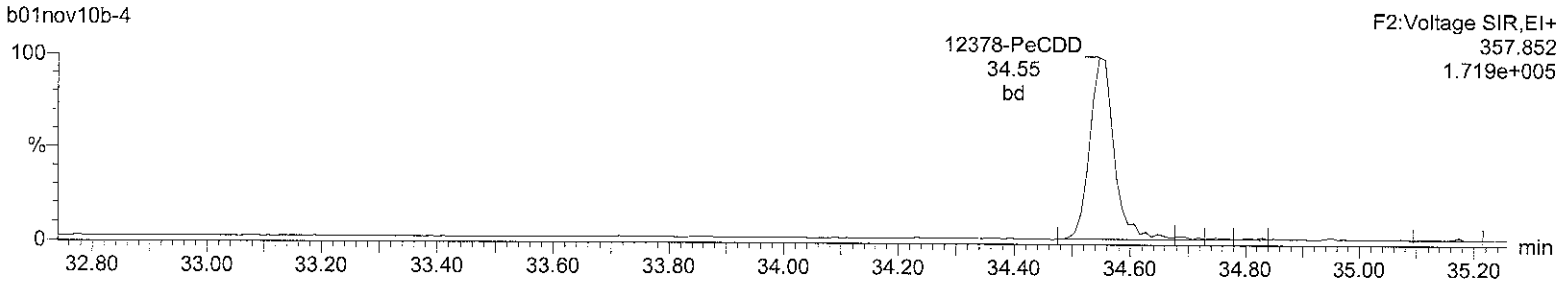
Last Altered: Tuesday, November 02, 2010 08:16:46 Eastern Standard Time
Printed: Tuesday, November 02, 2010 08:17:27 Eastern Standard Time

Name: b01nov10b-4, Date: 01-Nov-2010, Time: 20:04:39, ID: CS1 UD090323-02, Description: , Job: b01nov10b, Task: HRP763_1, User: MJC

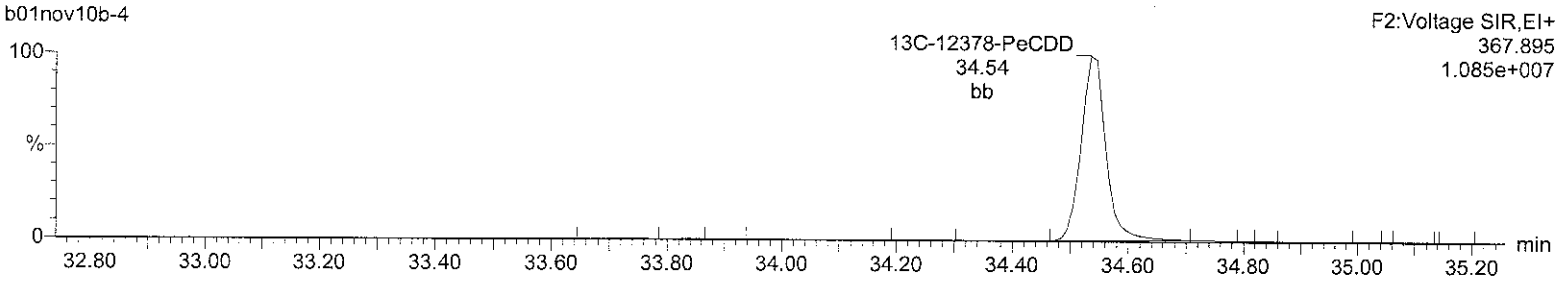
Total-pentadioxins



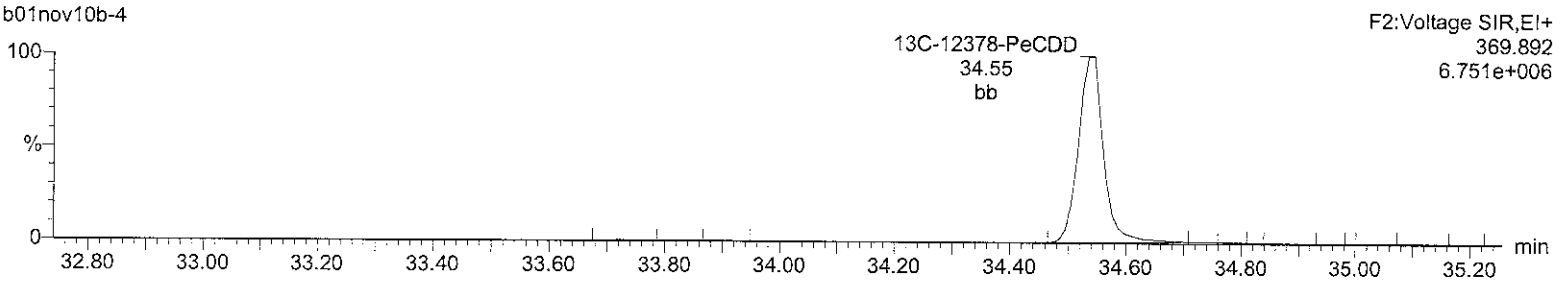
Total-pentadioxins



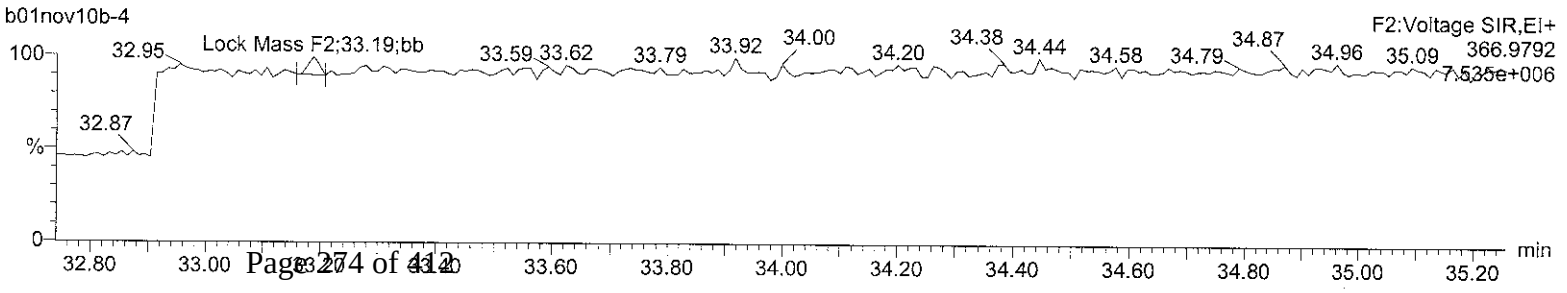
13C-12378-PeCDD



13C-12378-PeCDD



Lock Mass F2



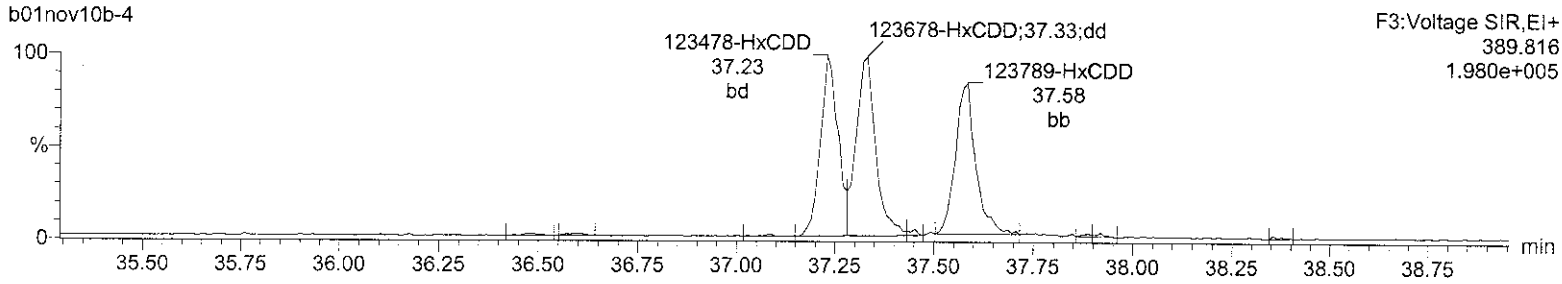
Quantify Sample Report **MassLynx 4.1**
Method 8290 ICAL Report

Dataset: C:\MassLynx\Default.pro\ICAL Results\8290-b01nov10b.qld

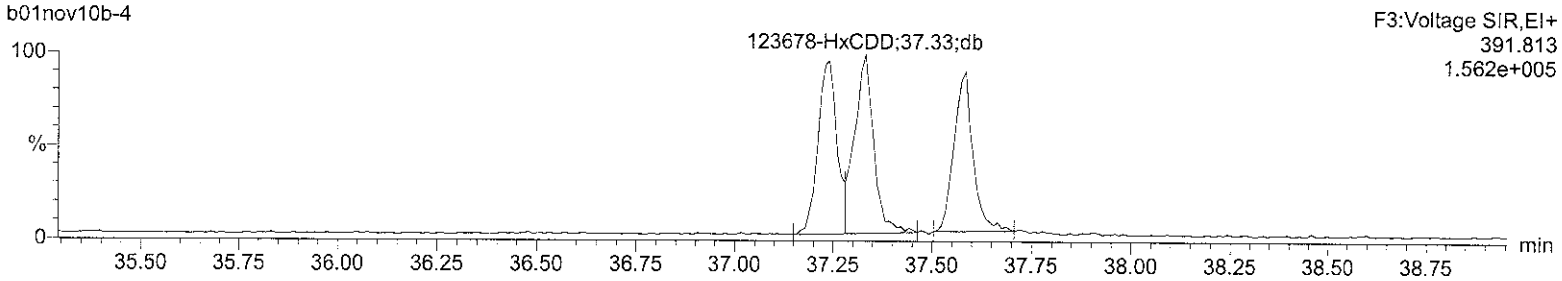
Last Altered: Tuesday, November 02, 2010 08:16:46 Eastern Standard Time
Printed: Tuesday, November 02, 2010 08:17:27 Eastern Standard Time

Name: b01nov10b-4, Date: 01-Nov-2010, Time: 20:04:39, ID: CS1 UD090323-02, Description: , Job: b01nov10b, Task: HRP763_1, User: MJC

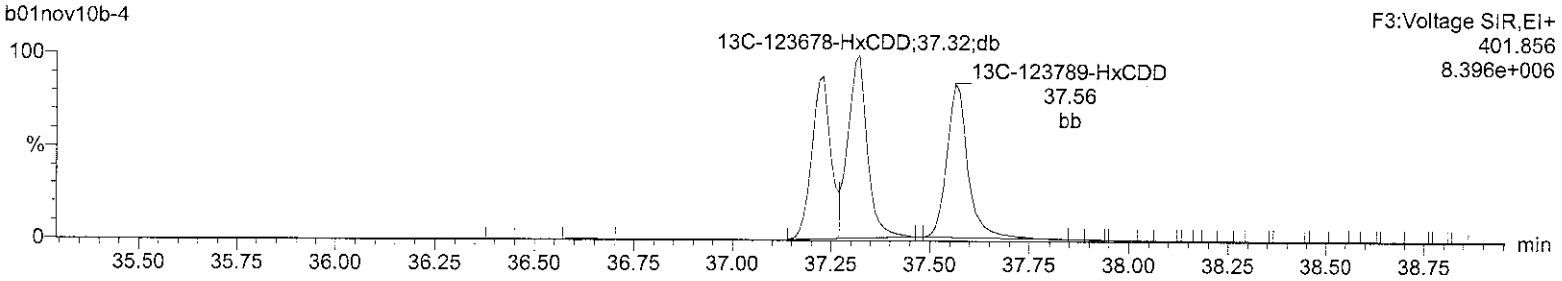
Total-hexadioxins



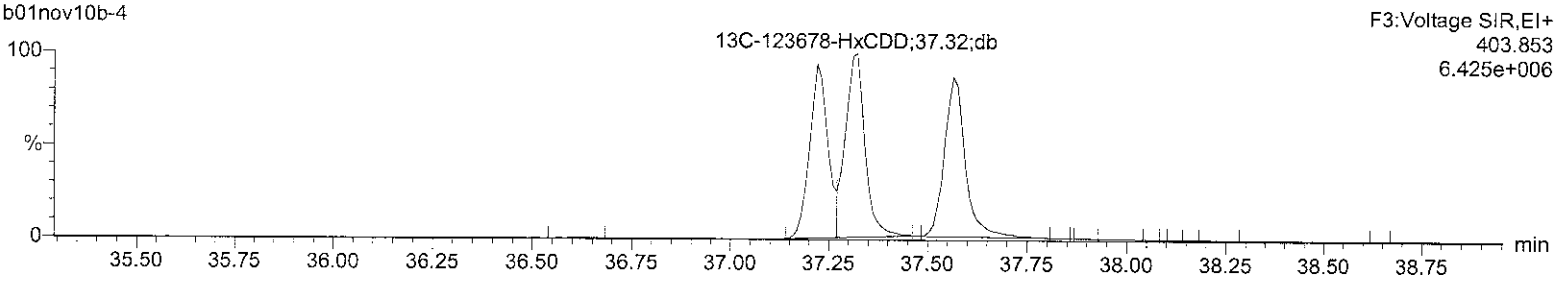
Total-hexadioxins



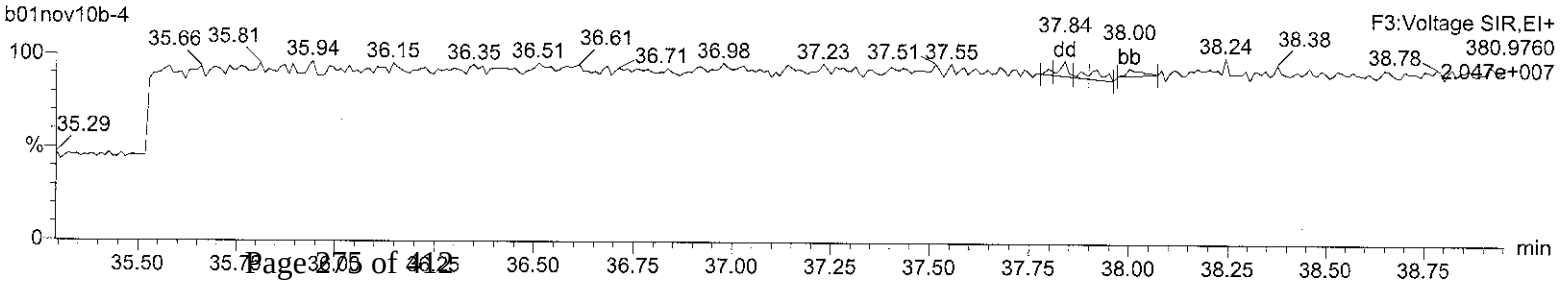
13C-123678-HxCDD



13C-123678-HxCDD



Lock Mass F3



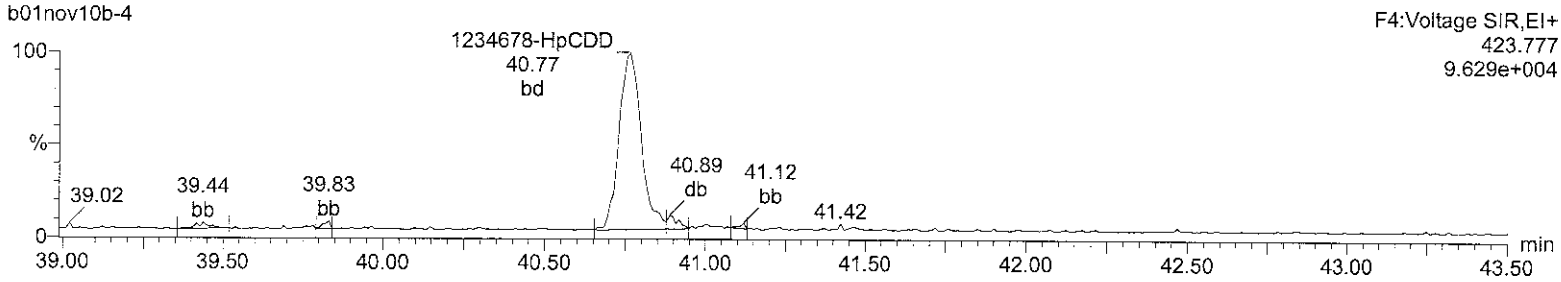
Quantify Sample Report **MassLynx 4.1**
Method 8290 ICAL Report

Dataset: C:\MassLynx\Default.pro\ICAL Results\8290-b01nov10b.qld

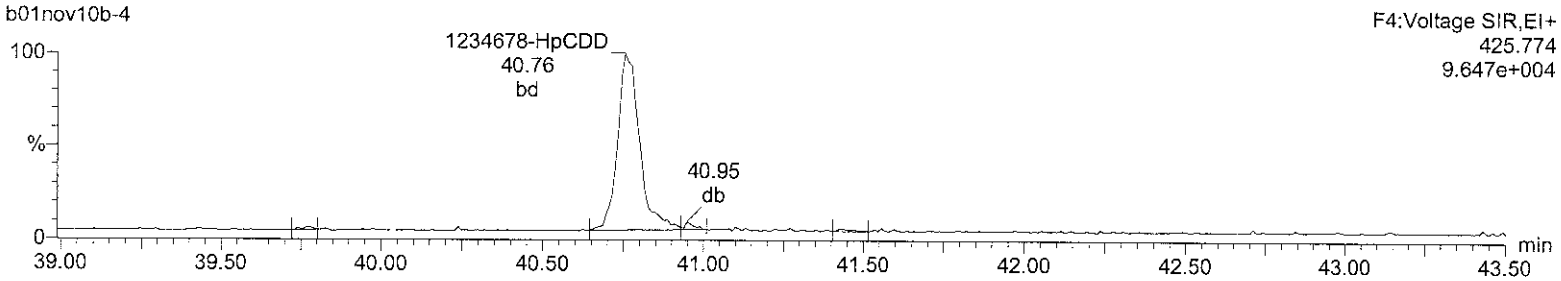
Last Altered: Tuesday, November 02, 2010 08:16:46 Eastern Standard Time
Printed: Tuesday, November 02, 2010 08:17:27 Eastern Standard Time

Name: b01nov10b-4, Date: 01-Nov-2010, Time: 20:04:39, ID: CS1 UD090323-02, Description: , Job: b01nov10b, Task: HRP763_1, User: MJC

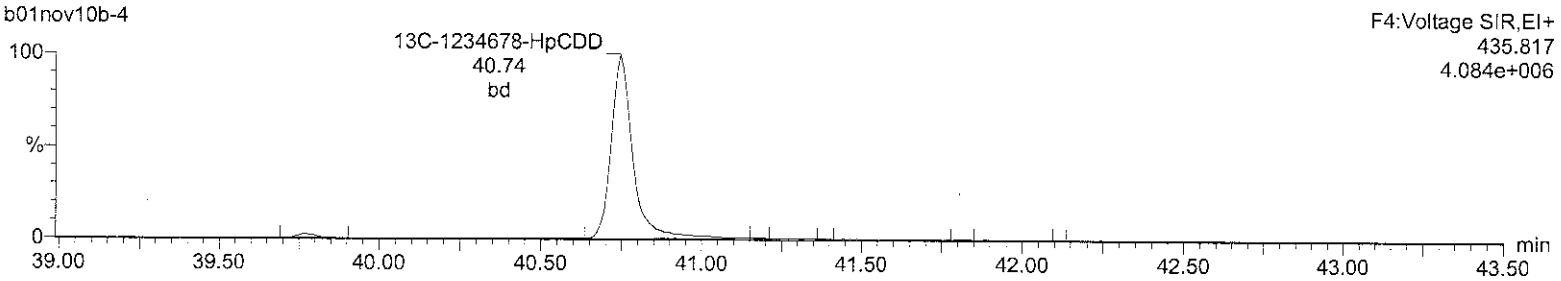
Total-heptadioxins



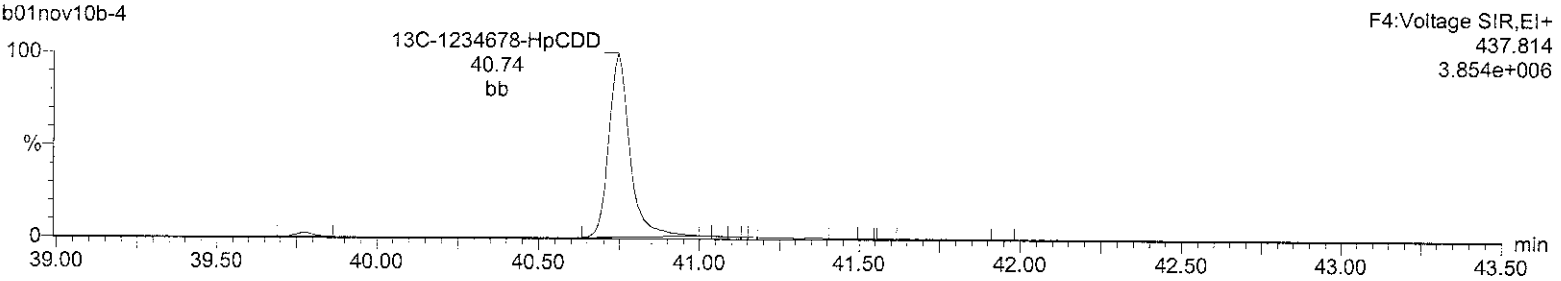
Total-heptadioxins



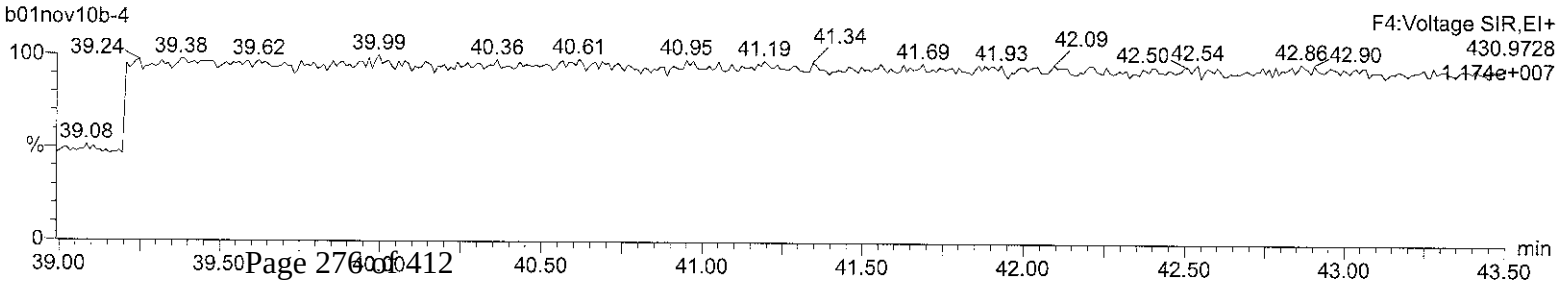
13C-1234678-HpCDD



13C-1234678-HpCDD



Lock Mass F4



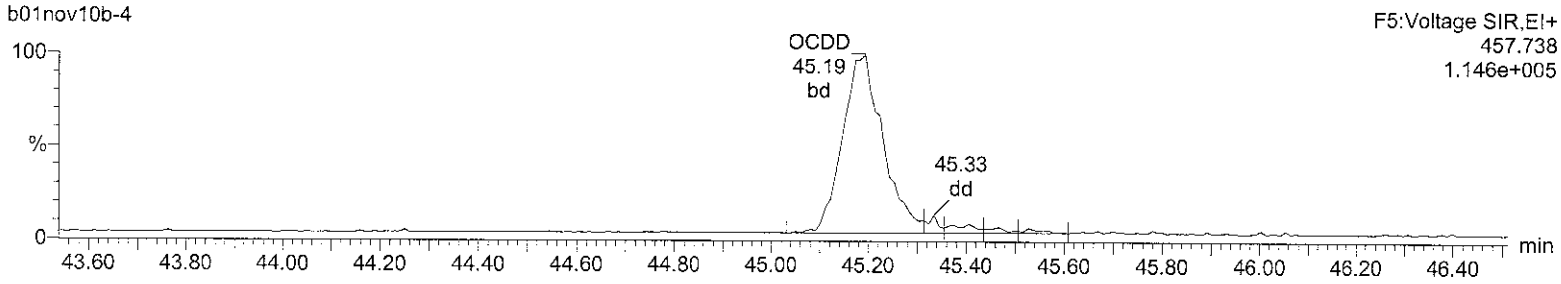
Quantify Sample Report **MassLynx 4.1**
Method 8290 ICAL Report

Dataset: C:\MassLynx\Default.pro\ICAL Results\8290-b01nov10b.qld

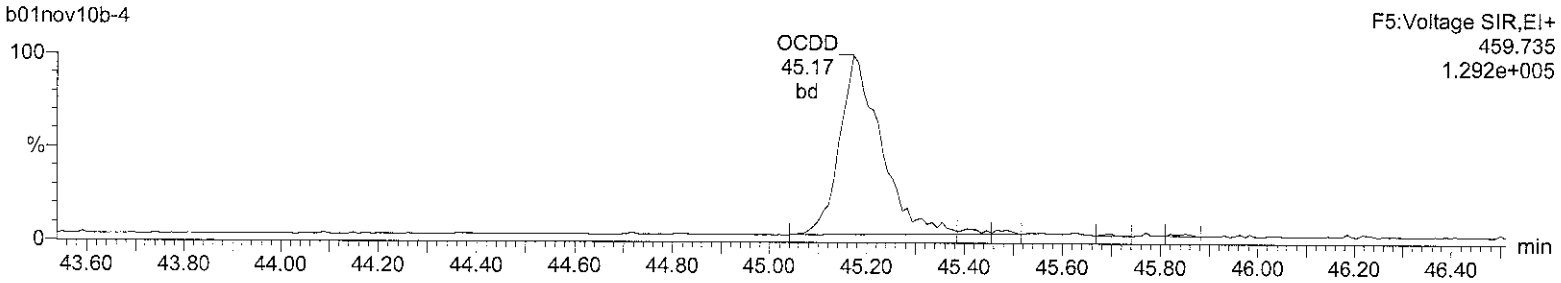
Last Altered: Tuesday, November 02, 2010 08:16:46 Eastern Standard Time
Printed: Tuesday, November 02, 2010 08:17:27 Eastern Standard Time

Name: b01nov10b-4, Date: 01-Nov-2010, Time: 20:04:39, ID: CS1 UD090323-02, Description: , Job: b01nov10b, Task: HRP763_1, User: MJC

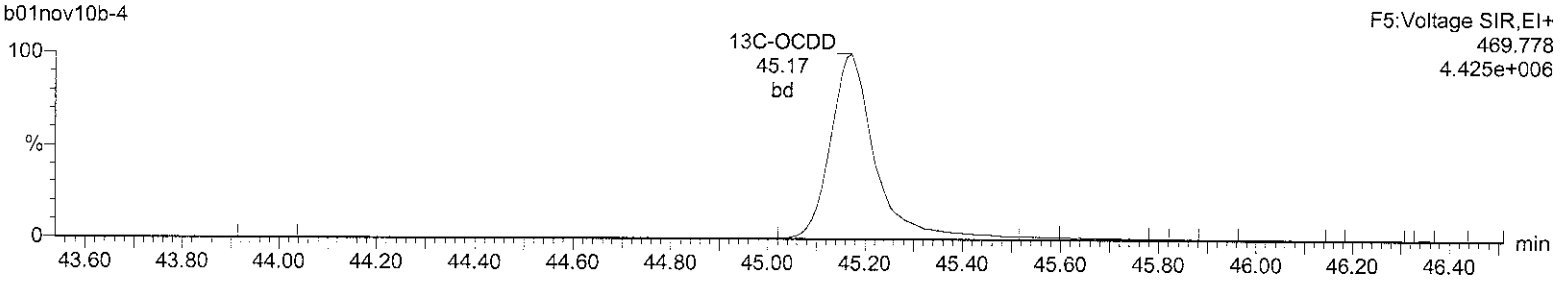
OCDD



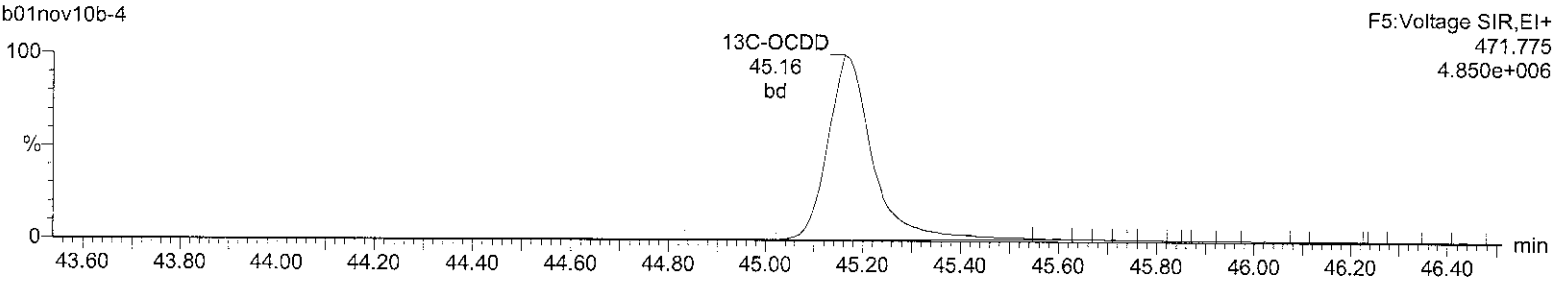
OCDD



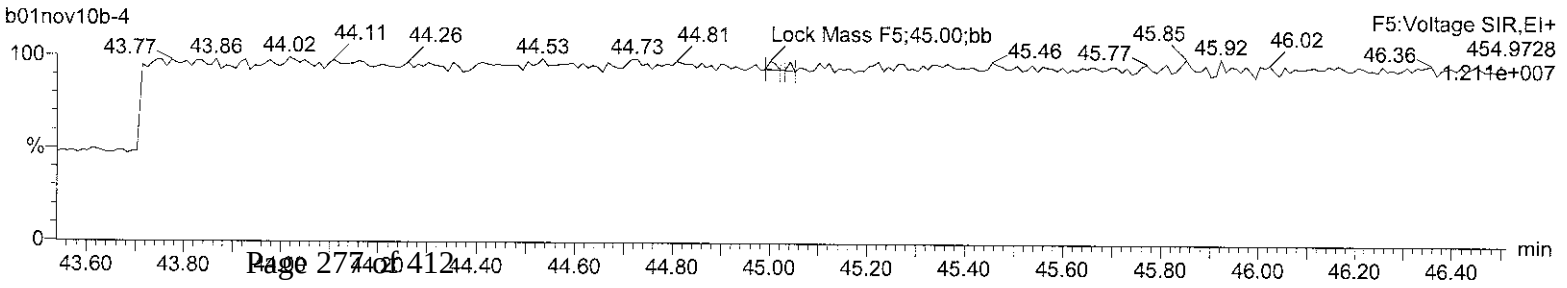
13C-OCDD



13C-OCDD



Lock Mass F5



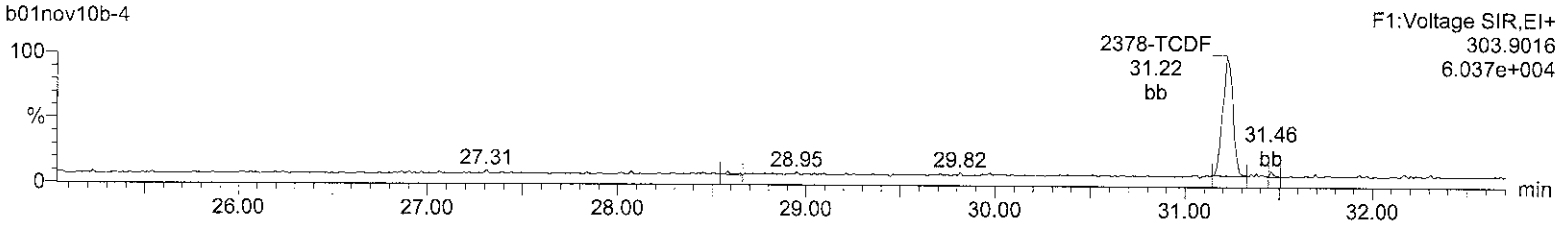
Quantify Sample Report **MassLynx 4.1**
Method 8290 ICAL Report

Dataset: C:\MassLynx\Default.pro\ICAL Results\8290-b01nov10b.qld

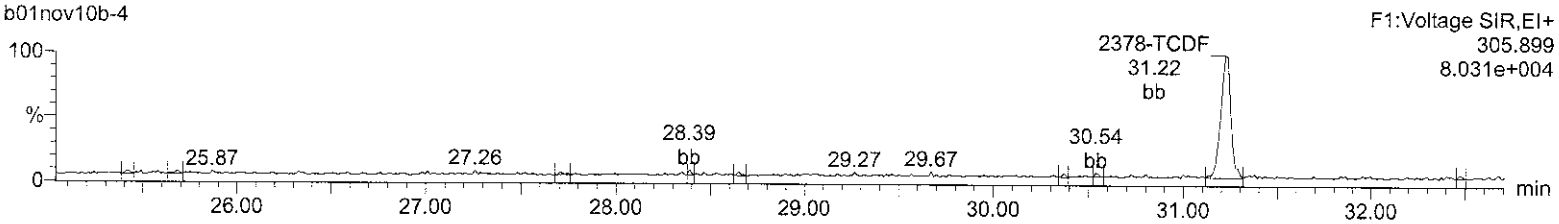
Last Altered: Tuesday, November 02, 2010 08:16:46 Eastern Standard Time
Printed: Tuesday, November 02, 2010 08:17:27 Eastern Standard Time

Name: b01nov10b-4, Date: 01-Nov-2010, Time: 20:04:39, ID: CS1 UD090323-02, Description: , Job: b01nov10b, Task: HRP763_1, User: MJC

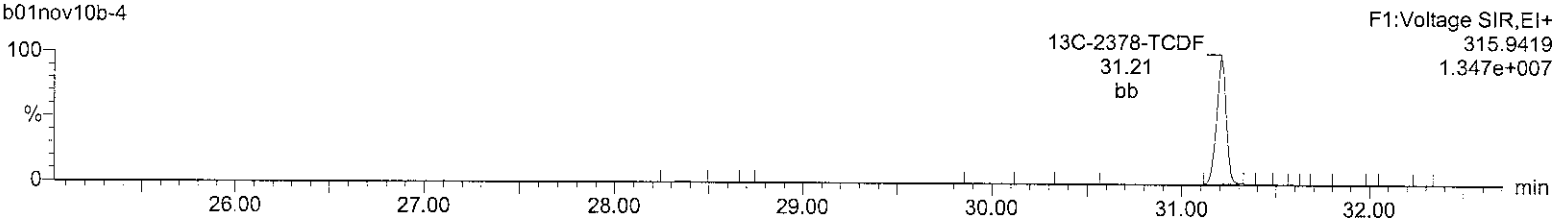
Total-tetrafurans



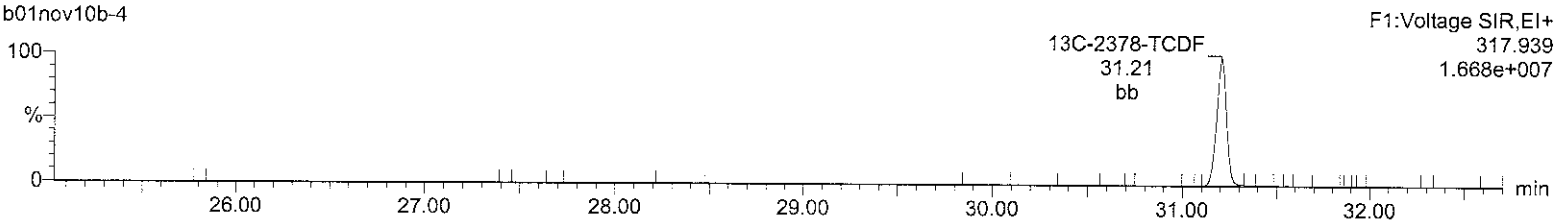
Total-tetrafurans



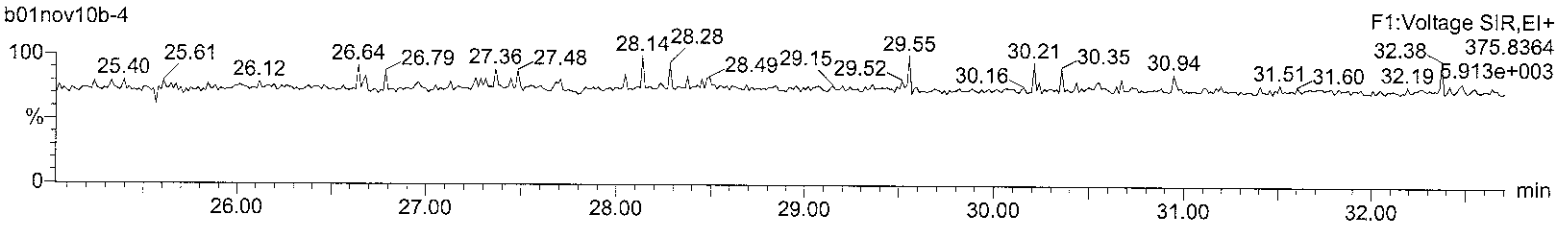
13C-2378-TCDF



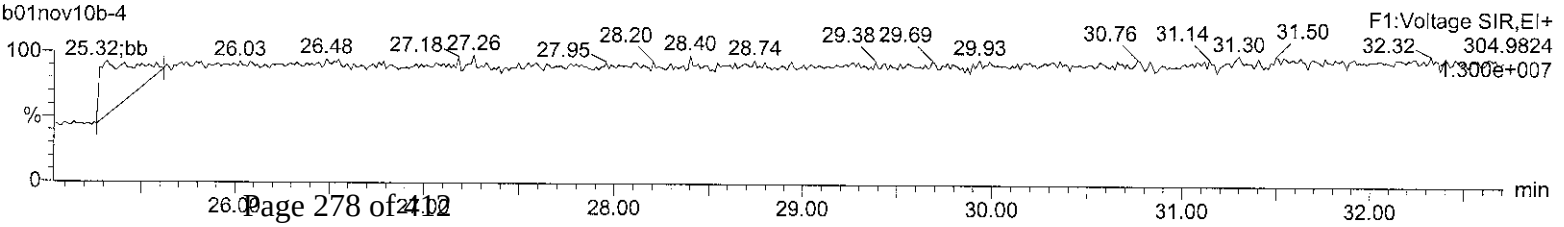
13C-2378-TCDF



HxDPE



Lock Mass F1



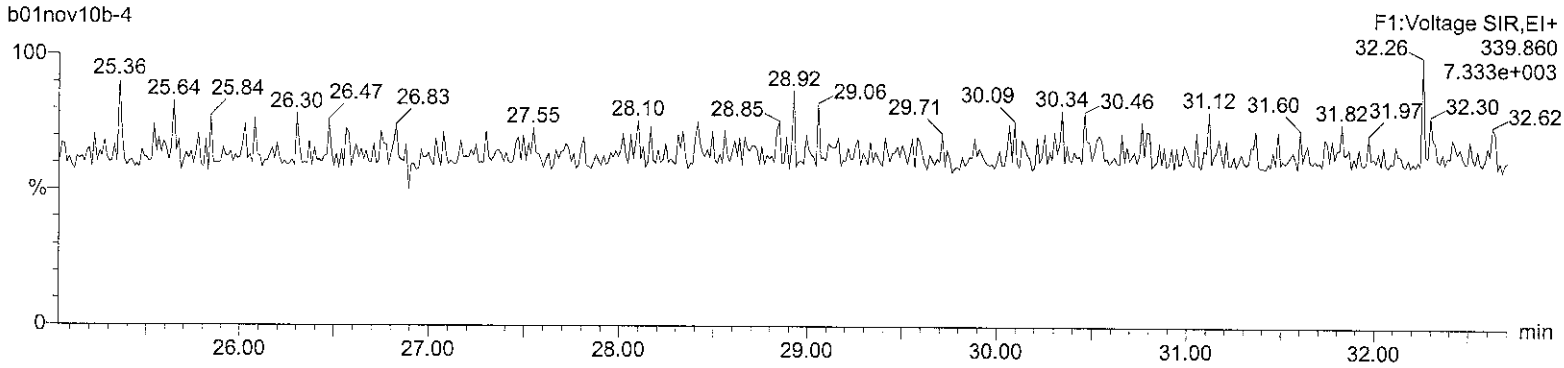
Quantify Sample Report **MassLynx 4.1**
Method 8290 ICAL Report

Dataset: C:\MassLynx\Default.pro\ICAL Results\8290-b01nov10b.qld

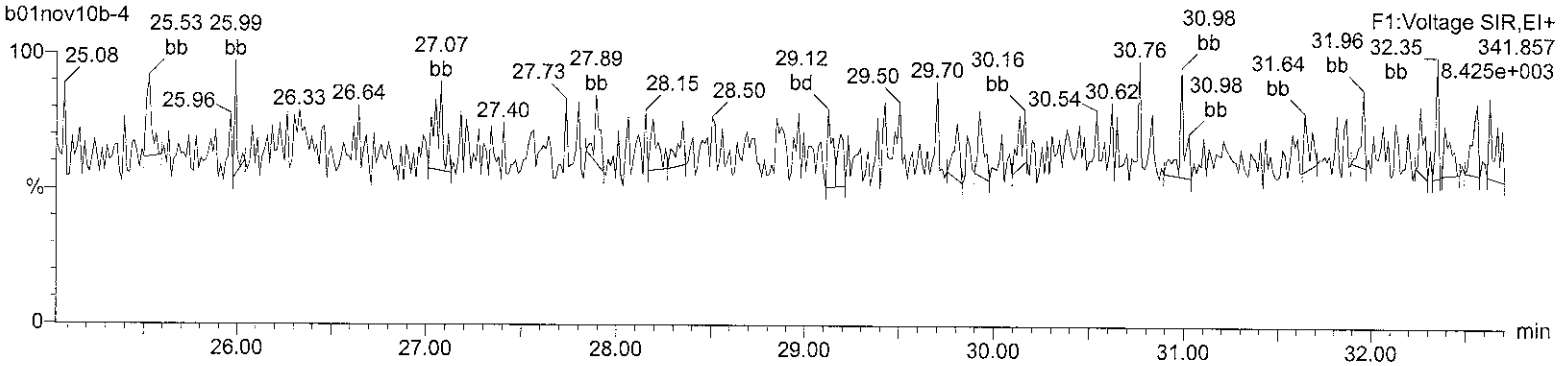
Last Altered: Tuesday, November 02, 2010 08:16:46 Eastern Standard Time
Printed: Tuesday, November 02, 2010 08:17:27 Eastern Standard Time

Name: b01nov10b-4, Date: 01-Nov-2010, Time: 20:04:39, ID: CS1 UD090323-02, Description: , Job: b01nov10b, Task: HRP763_1, User: MJC

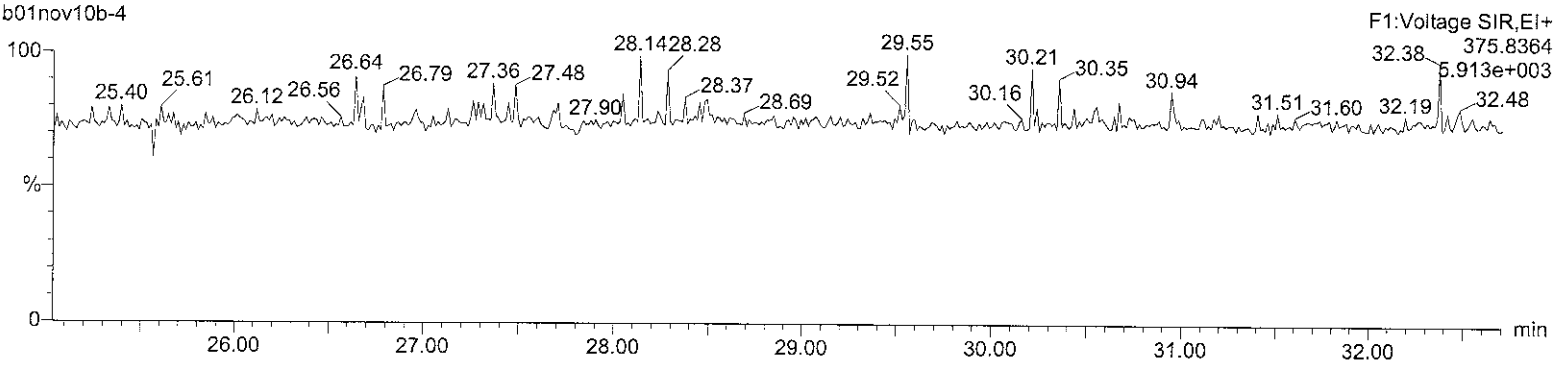
Total-pentafurans (F1)



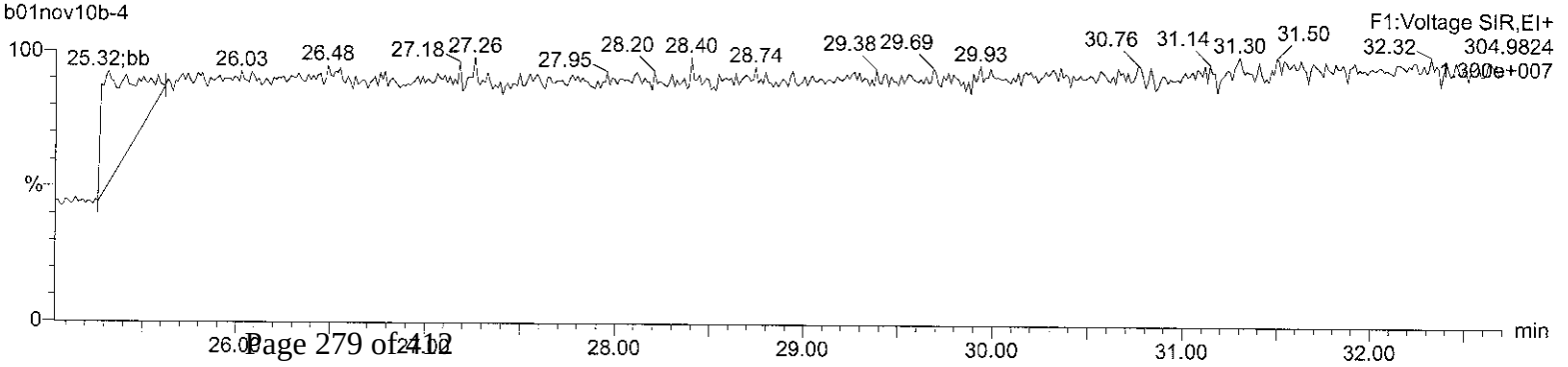
Total-pentafurans (F1)



HxDPE



Lock Mass F1



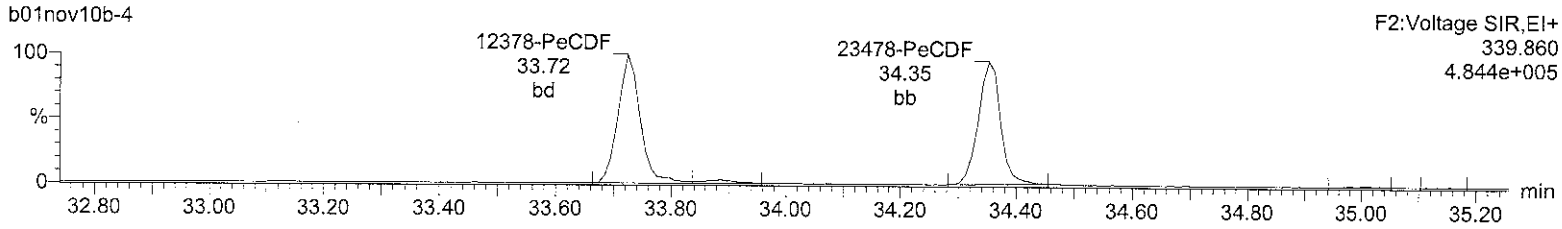
Quantify Sample Report **MassLynx 4.1**
Method 8290 ICAL Report

Dataset: C:\MassLynx\Default.pro\ICAL Results\8290-b01nov10b.qld

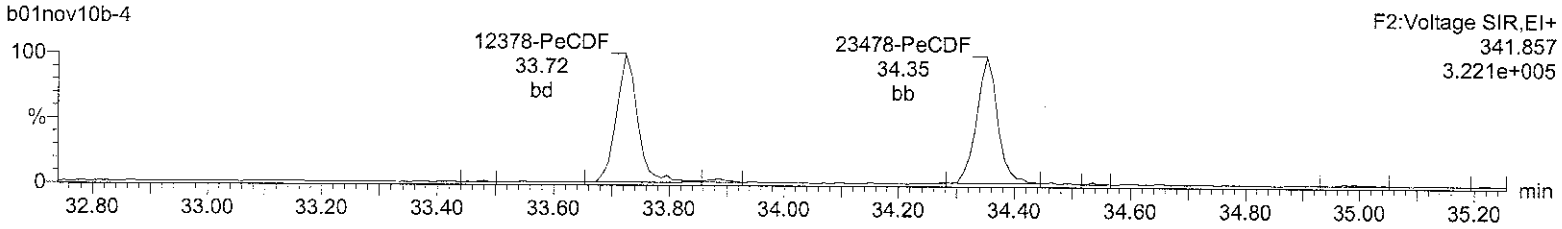
Last Altered: Tuesday, November 02, 2010 08:16:46 Eastern Standard Time
Printed: Tuesday, November 02, 2010 08:17:27 Eastern Standard Time

Name: b01nov10b-4, Date: 01-Nov-2010, Time: 20:04:39, ID: CS1 UD090323-02, Description: , Job: b01nov10b, Task: HRP763_1, User: MJC

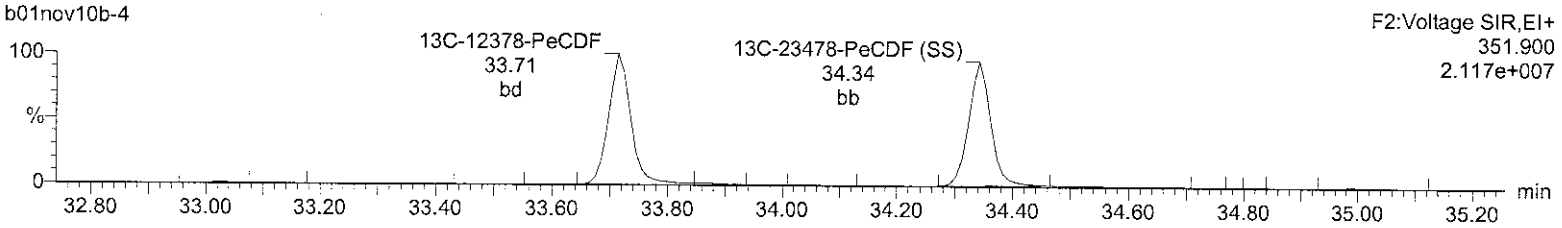
Total-pentafurans



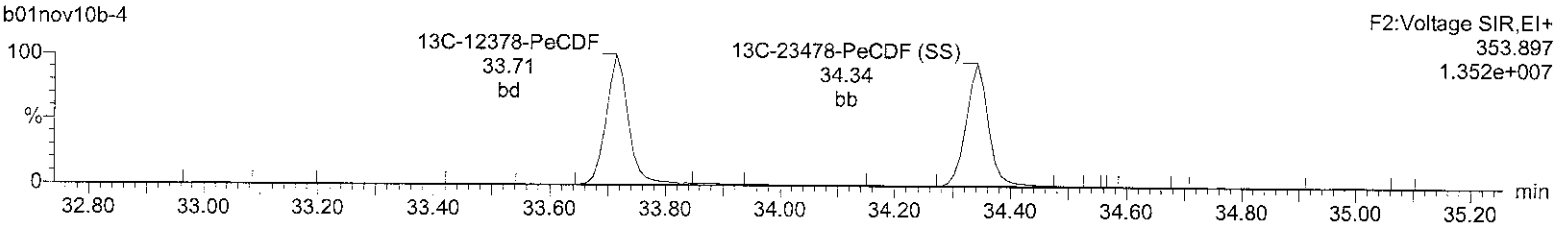
Total-pentafurans



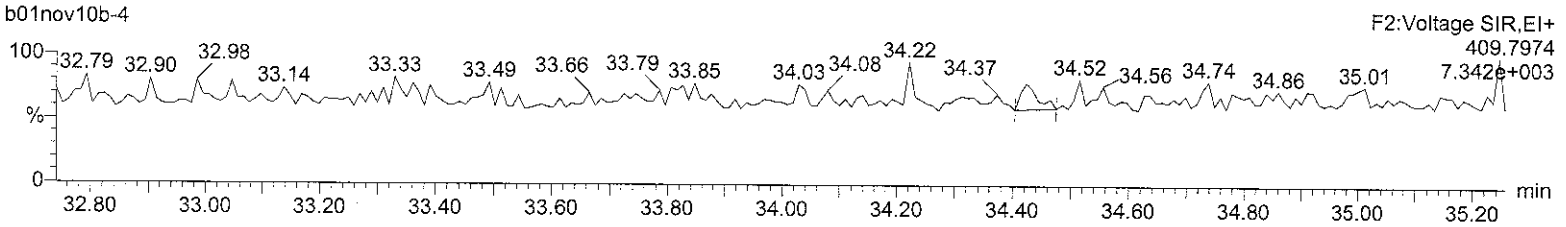
13C-12378-PeCDF



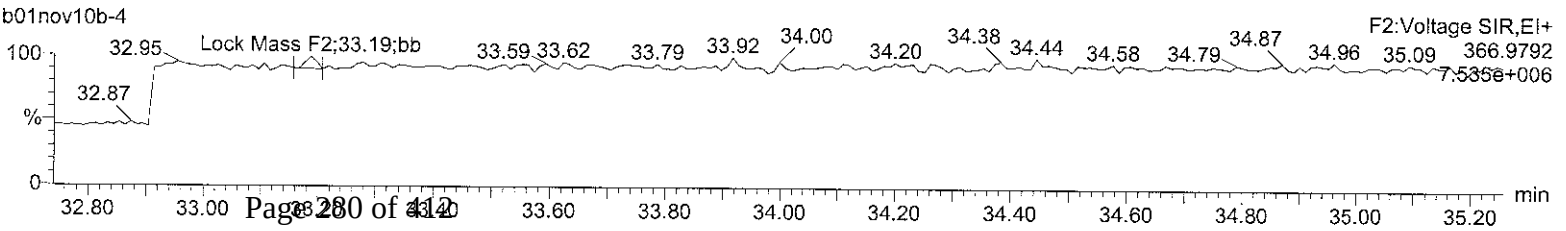
13C-12378-PeCDF



HpDPE



Lock Mass F2



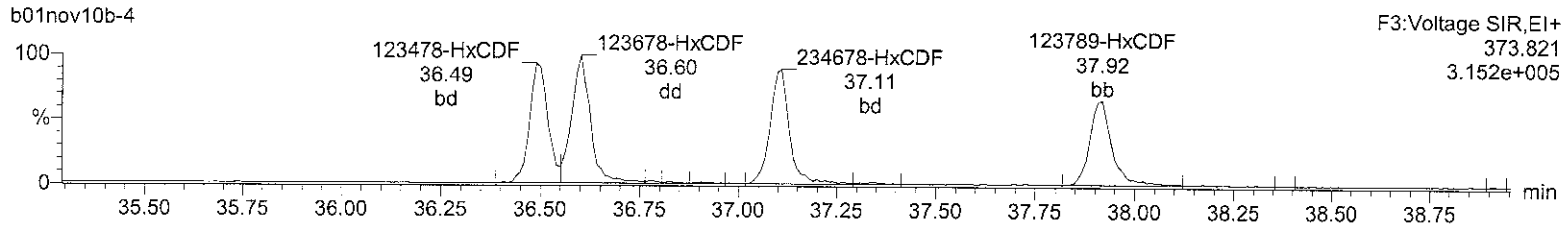
Quantify Sample Report **MassLynx 4.1**
Method 8290 ICAL Report

Dataset: C:\MassLynx\Default.pro\ICAL Results\8290-b01nov10b.qld

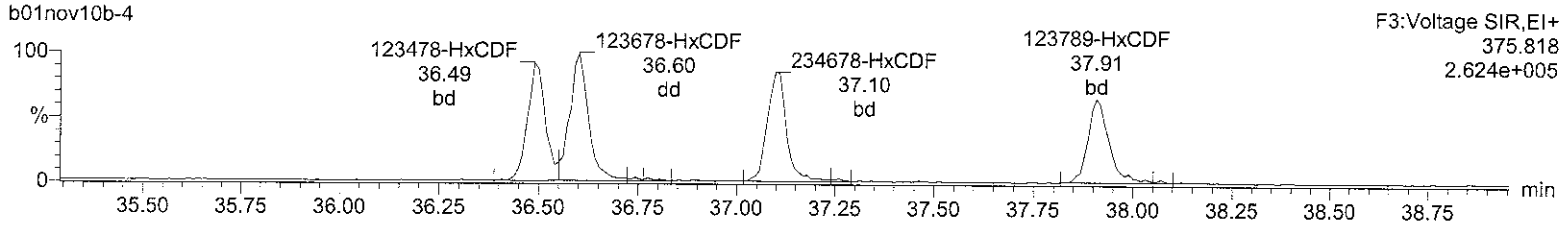
Last Altered: Tuesday, November 02, 2010 08:16:46 Eastern Standard Time
Printed: Tuesday, November 02, 2010 08:17:27 Eastern Standard Time

Name: b01nov10b-4, Date: 01-Nov-2010, Time: 20:04:39, ID: CS1 UD090323-02, Description: , Job: b01nov10b, Task: HRP763_1, User: MJC

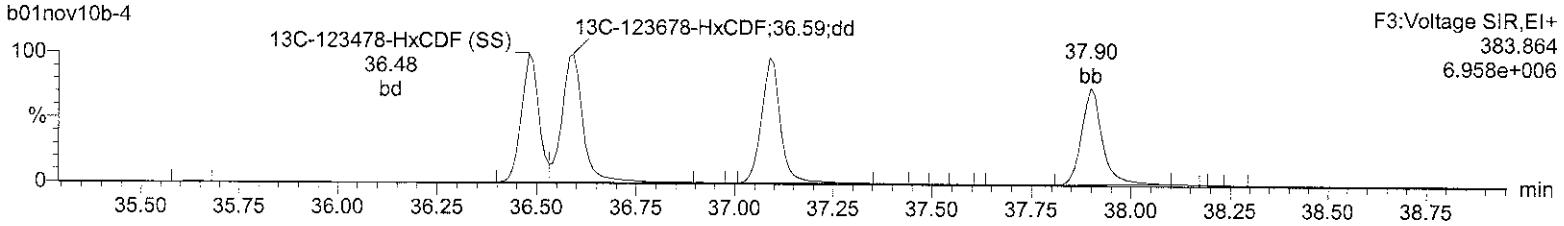
Total-hexafurans



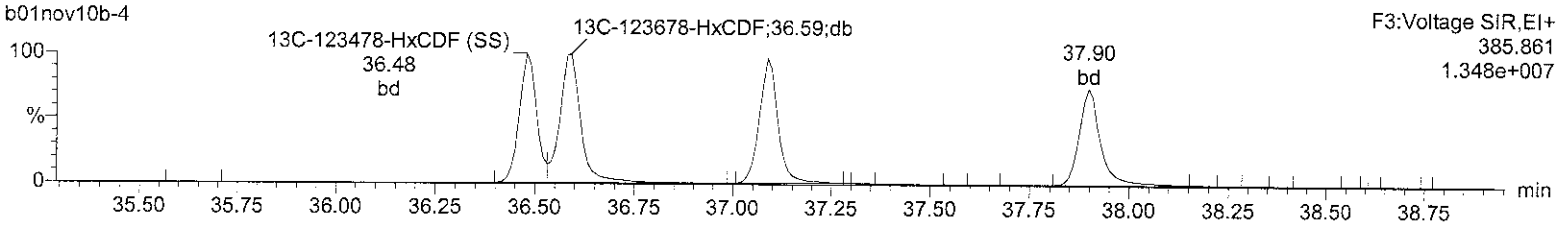
Total-hexafurans



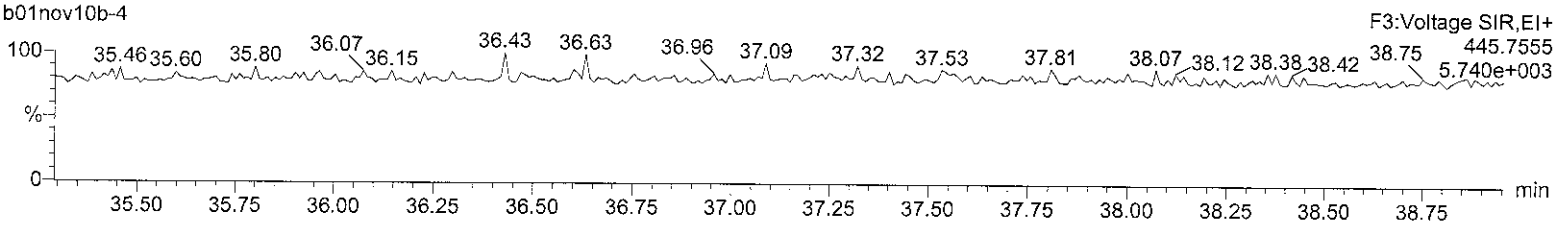
13C-123678-HxCDF



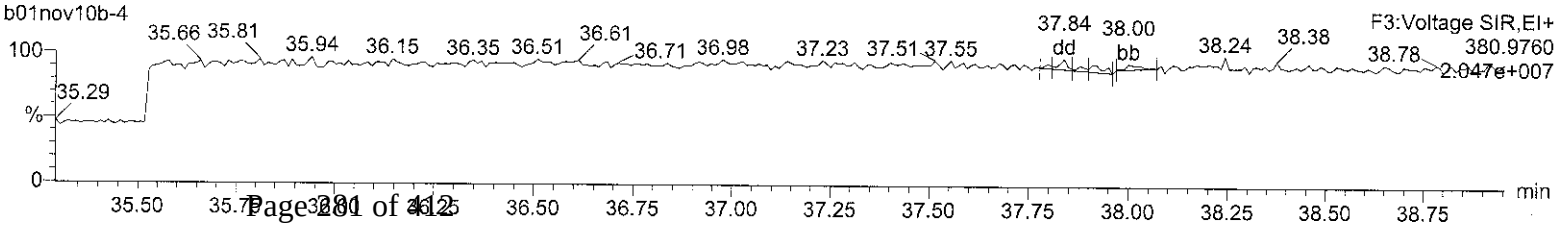
13C-123678-HxCDF



OcDPE



Lock Mass F3



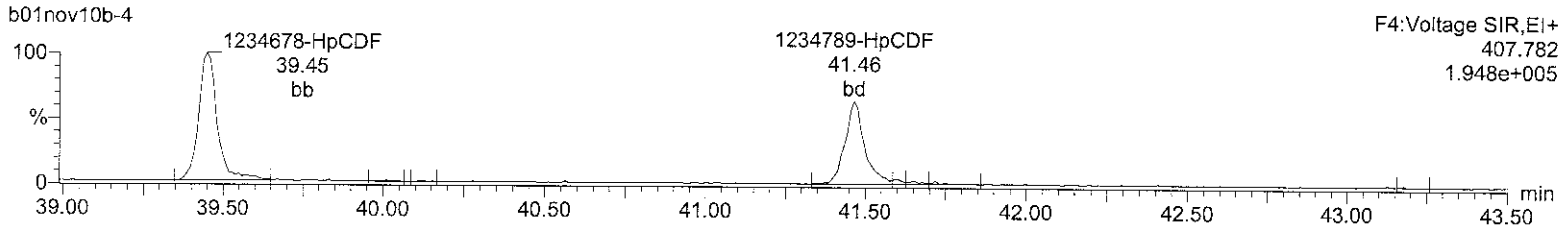
Quantify Sample Report **MassLynx 4.1**
Method 8290 ICAL Report

Dataset: C:\MassLynx\Default.pro\ICAL Results\8290-b01nov10b.qld

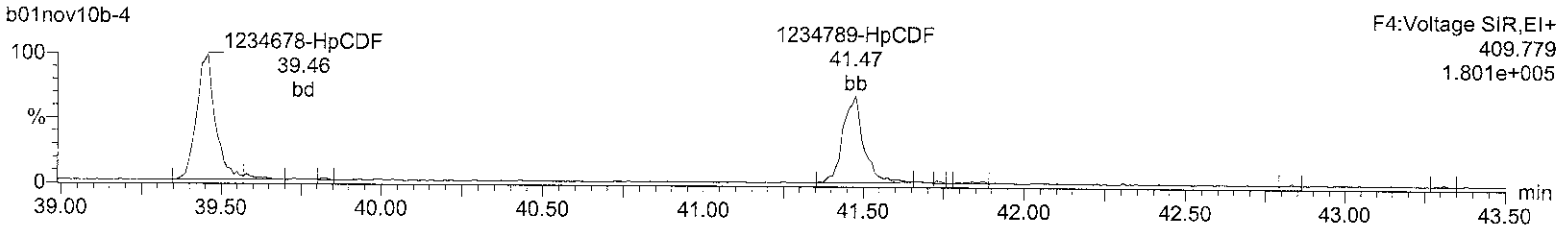
Last Altered: Tuesday, November 02, 2010 08:16:46 Eastern Standard Time
Printed: Tuesday, November 02, 2010 08:17:27 Eastern Standard Time

Name: b01nov10b-4, Date: 01-Nov-2010, Time: 20:04:39, ID: CS1 UD090323-02, Description: , Job: b01nov10b, Task: HRP763_1, User: MJC

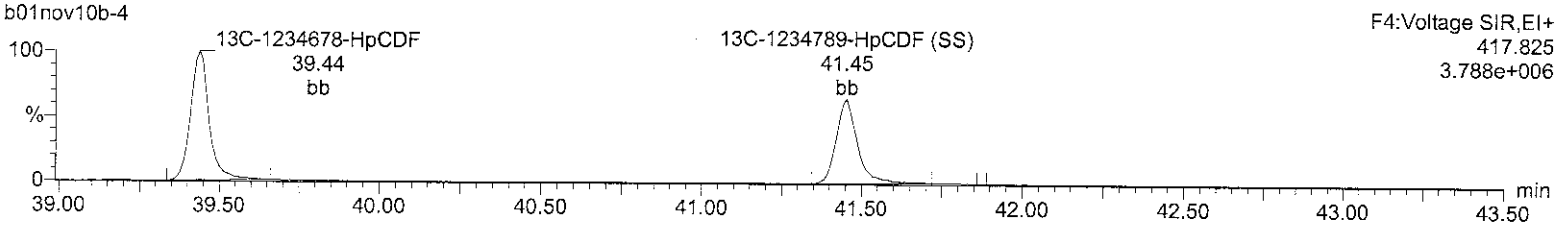
Total-heptafurans



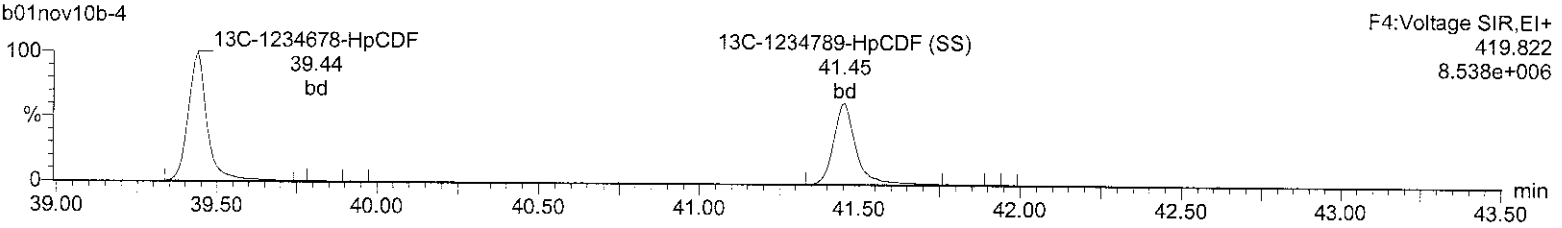
Total-heptafurans



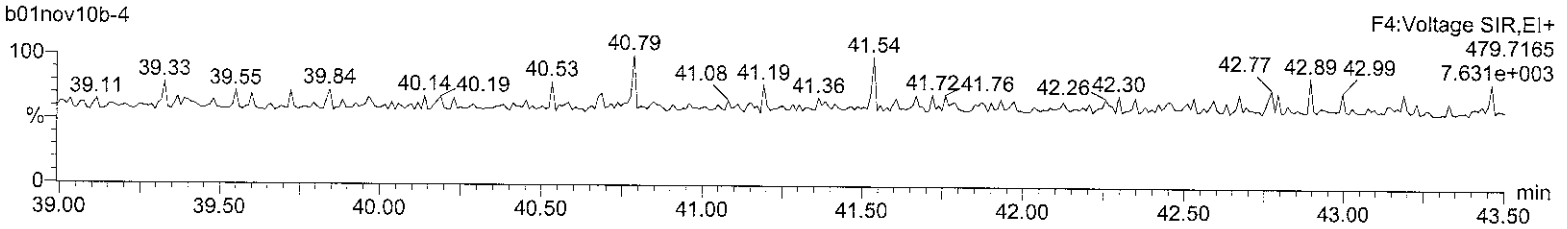
13C-1234678-HpCDF



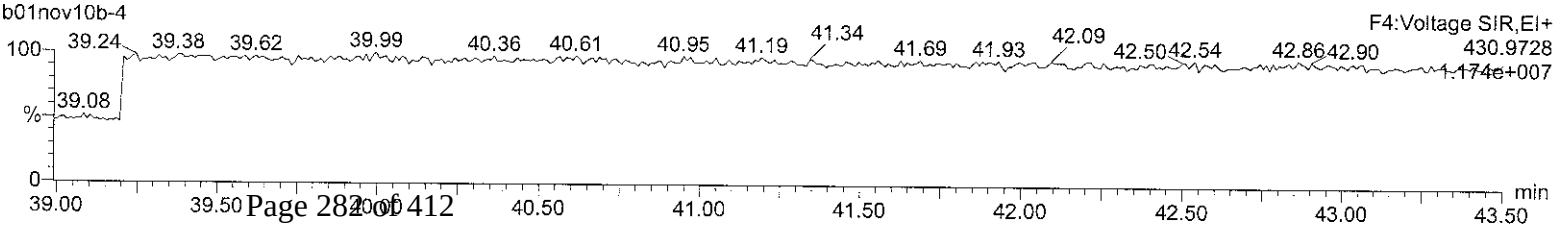
13C-1234678-HpCDF



NoDPE



Lock Mass F4



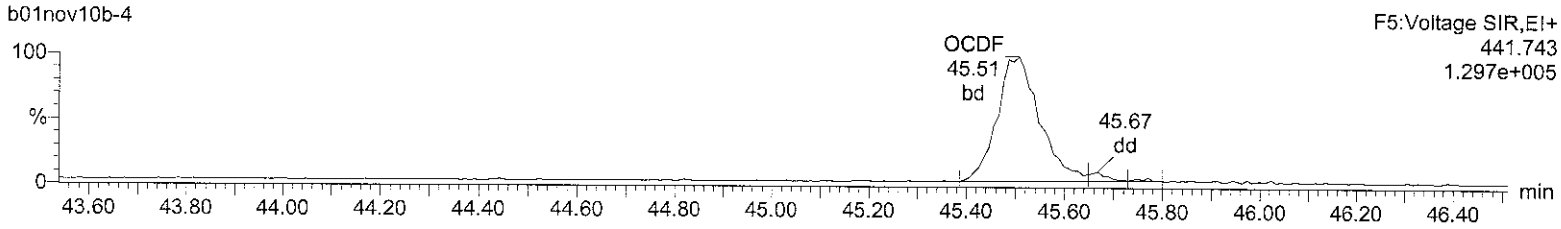
Quantify Sample Report **MassLynx 4.1**
Method 8290 ICAL Report

Dataset: C:\MassLynx\Default.pro\ICAL Results\8290-b01nov10b.qld

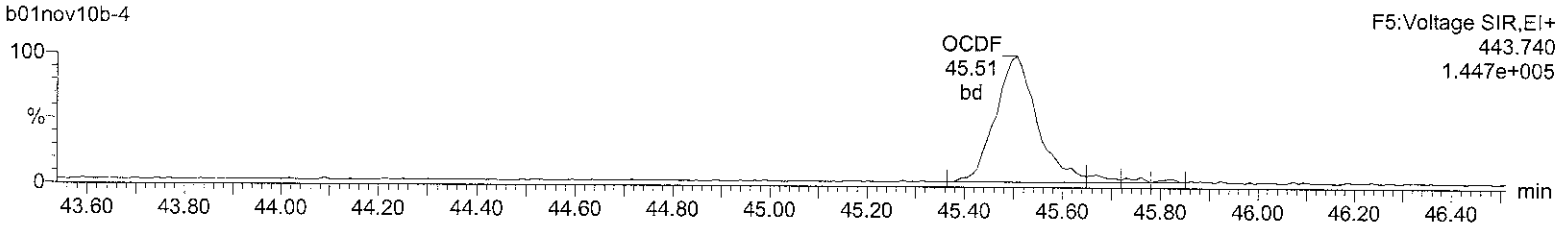
Last Altered: Tuesday, November 02, 2010 08:16:46 Eastern Standard Time
Printed: Tuesday, November 02, 2010 08:17:27 Eastern Standard Time

Name: b01nov10b-4, Date: 01-Nov-2010, Time: 20:04:39, ID: CS1 UD090323-02, Description: , Job: b01nov10b, Task: HRP763_1, User: MJC

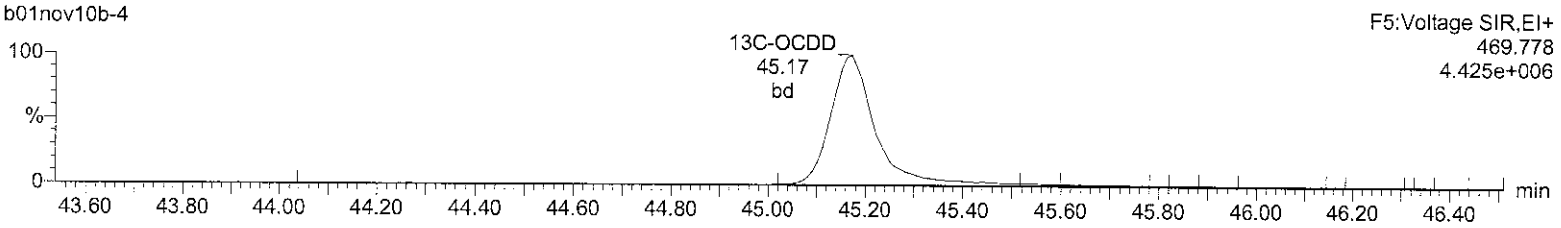
OCDF



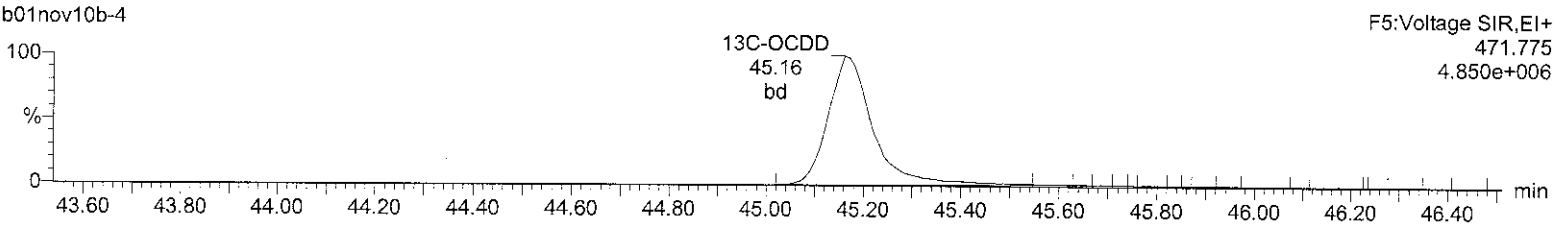
OCDF



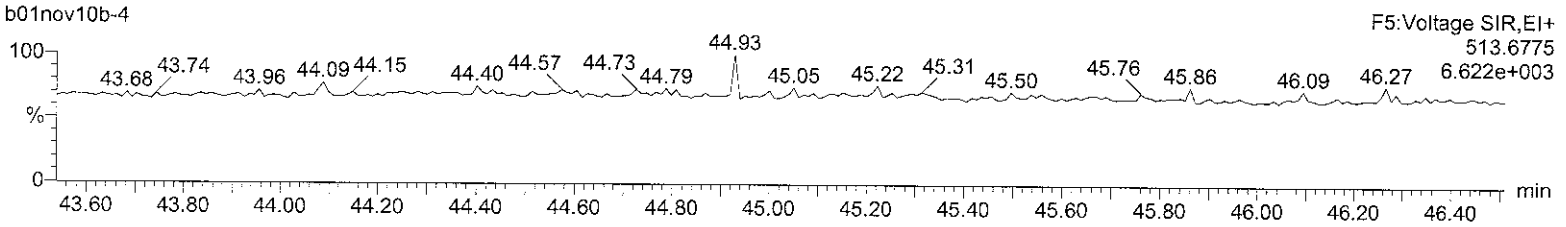
13C-OCDD



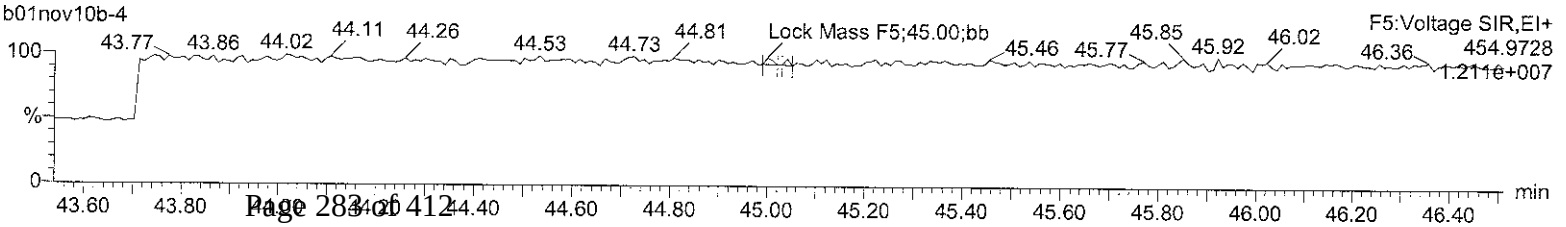
13C-OCDD



DeDPE



Lock Mass F5



Quantify Sample Summary Report **MassLynx 4.1**
Method 8290 ICAL Report

Dataset: C:\MassLynx\Default.pro\ICAL Results\8290-b01nov10b.qld

Last Altered: Tuesday, November 02, 2010 08:19:01 Eastern Standard Time
Printed: Tuesday, November 02, 2010 08:23:00 Eastern Standard Time

Name: b01nov10b-5, Date: 01-Nov-2010, Time: 20:53:05, ID: CS2 UD090323-03, Description: , Job: b01nov10b, Task: HRP763_1, User: MJC

	Name	Ion1Area	Ion2Area	Response	RT	RRT	RA	Fail?	pg/uL	RRF	EDL	Height1	Noise1	S/N1	Height2	Noise2	S/N2	M
1	2378-TCDD	9.76e3	1.26e4	2.24e4	31.75	1.00	0.77	NO	1.854	0.938	0.0200	2.03e5	675	301.0	2.42e5	1005	240.3	bd
2	12378-PeCDD	5.93e4	3.67e4	9.60e4	34.55	1.00	1.62	NO	10.017	1.034	0.0451	1.29e6	1638	789.0	7.74e5	1476	524.3	bd
3	123478-HxCDD	4.42e4	3.42e4	7.84e4	37.23	1.00	1.29	NO	9.160	0.821	0.0617	8.45e5	1148	736.4	6.48e5	1777	364.8	bd
4	123678-HxCDD	4.92e4	4.09e4	9.01e4	37.32	1.00	1.20	NO	9.753	0.944	0.0572	8.43e5	1148	734.2	6.99e5	1777	393.4	db
5	123789-HxCDD	4.34e4	3.70e4	8.03e4	37.57	1.01	1.17	NO	9.726	0.842	0.0639	7.35e5	1148	640.0	5.89e5	1777	331.7	bb
6	1234678-HpCDD	3.20e4	3.09e4	6.29e4	40.75	1.00	1.04	NO	9.414	0.946	0.0966	4.43e5	1578	280.8	4.05e5	1107	365.9	bd
7	OCDD	4.66e4	5.46e4	1.01e5	45.17	1.00	0.85	NO	18.622	0.927	0.245	4.84e5	1915	252.9	5.50e5	2091	263.0	bd
8	2378-TCDF	1.64e4	2.03e4	3.68e4	31.22	1.00	0.81	NO	2.001	0.984	0.0209	2.84e5	704	403.1	3.28e5	1358	241.2	bb
9	12378-PeCDF	9.51e4	6.14e4	1.57e5	33.72	1.00	1.55	NO	10.089	0.943	0.0538	2.09e6	3167	658.6	1.30e6	2698	483.5	bd
10	23478-PeCDF	9.25e4	6.02e4	1.53e5	34.34	1.02	1.54	NO	10.061	0.920	0.0549	1.97e6	3167	623.6	1.30e6	2698	480.4	bb
11	123478-HxCDF	6.72e4	5.29e4	1.20e5	36.49	1.00	1.27	NO	9.794	0.890	0.0810	1.34e6	3259	412.2	1.08e6	2443	441.4	bd
12	123678-HxCDF	7.80e4	6.20e4	1.40e5	36.59	1.00	1.26	NO	9.804	1.037	0.0696	1.33e6	3259	408.4	1.09e6	2443	447.1	dd
13	234678-HxCDF	6.86e4	5.56e4	1.24e5	37.10	1.01	1.23	NO	9.630	0.920	0.0771	1.31e6	3259	401.5	9.93e5	2443	406.6	bd
14	123789-HxCDF	5.92e4	4.63e4	1.06e5	37.90	1.04	1.28	NO	9.876	0.782	0.0930	9.14e5	3259	280.4	7.42e5	2443	303.6	bd
15	1234678-HpCDF	5.71e4	5.41e4	1.11e5	39.44	1.00	1.06	NO	9.834	1.256	0.0903	8.63e5	2112	408.6	8.22e5	2969	277.0	bd
16	1234789-HpCDF	4.02e4	3.94e4	7.96e4	41.45	1.05	1.02	NO	9.657	0.898	0.124	5.06e5	2112	239.5	4.86e5	2969	163.7	bd
17	OCDF	5.90e4	6.69e4	1.26e5	45.50	1.01	0.88	NO	18.733	1.154	0.210	5.87e5	2178	269.6	6.32e5	2062	306.5	bd
18	13C-2378-TCDD	5.28e5	6.65e5	1.19e6	31.73	1.01	0.79	NO	102.799	1.151	0.0623	1.10e7	2706	4067.7	1.40e7	1678	8360.8	bb
19	13C-12378-PeCDD	5.67e5	3.62e5	9.29e5	34.54	1.10	1.57	NO	94.296	0.896	0.0749	1.23e7	2913	4205.2	7.73e6	1557	4966.4	bb
20	13C-123678-HxCDD	5.36e5	4.18e5	9.54e5	37.31	0.99	1.28	NO	97.212	1.081	0.151	8.91e6	4716	1888.5	6.73e6	2431	2770.1	dd
21	13C-1234678-HpCDD	3.44e5	3.21e5	6.65e5	40.74	1.08	1.07	NO	94.032	0.753	0.227	4.29e6	3183	1349.1	4.08e6	4557	894.8	bd
22	13C-OCDD	5.14e5	5.78e5	1.09e6	45.16	1.20	0.89	NO	184.941	0.618	0.275	4.63e6	4119	1123.7	5.18e6	3700	1399.6	bd
23	13C-2378-TCDF	8.24e5	1.05e6	1.87e6	31.21	1.00	0.79	NO	98.994	1.803	0.0322	1.33e7	1563	8485.5	1.67e7	2114	7901.1	bb
24	13C-12378-PeCDF	1.02e6	6.45e5	1.66e6	33.71	1.08	1.58	NO	94.641	1.602	0.0864	2.14e7	5760	3720.4	1.35e7	3429	3932.0	bd
25	13C-123678-HxCDF	4.62e5	8.88e5	1.35e6	36.58	0.97	0.52	NO	93.756	1.529	0.220	7.95e6	5756	1381.7	1.53e7	9497	1607.6	dd
26	13C-1234678-HpCDF	2.78e5	6.08e5	8.86e5	39.43	1.05	0.46	NO	92.852	1.004	0.190	4.15e6	4022	1032.2	9.03e6	4720	1912.6	bd
27	13C-1234-TCDD	4.61e5	5.76e5	1.04e6	31.34	0.00	0.80	NO	100.000	1.000	0.0698	8.38e6	2706	3095.3	1.03e7	1678	6112.8	bb
28	13C-123789-HxCDD	4.92e5	3.91e5	8.83e5	37.56	0.00	1.26	NO	100.000	1.000	0.168	7.11e6	4716	1507.6	5.76e6	2431	2370.1	dd
29	37Cl-2378-TCDD (SS)	2.41e4		2.41e4	31.75	1.00			1.914	1.009	0.0148	4.81e5	1294	372.1				bb
30	13C-23478-PeCDF (SS)	9.56e5	5.98e5	1.55e6	34.33	1.02	1.60	NO	100.284	0.936	0.0843	2.07e7	5760	3587.3	1.29e7	3429	3771.8	bb
31	13C-123478-HxCDF (SS)	3.76e5	7.24e5	1.10e6	36.48	1.00	0.52	NO	100.625	0.815	0.243	7.39e6	5756	1284.7	1.39e7	9497	1467.5	bd
32	13C-123478-HxCDD (SS)	4.37e5	3.42e5	7.78e5	37.22	1.00	1.28	NO	94.735	0.816	0.157	8.37e6	4716	1774.8	6.38e6	2431	2623.6	bd
33	13C-1234789-HpCDF (SS)	2.07e5	4.64e5	6.71e5	41.44	1.05	0.45	NO	100.184	0.757	0.262	2.57e6	4022	638.0	5.63e6	4720	1193.8	bd

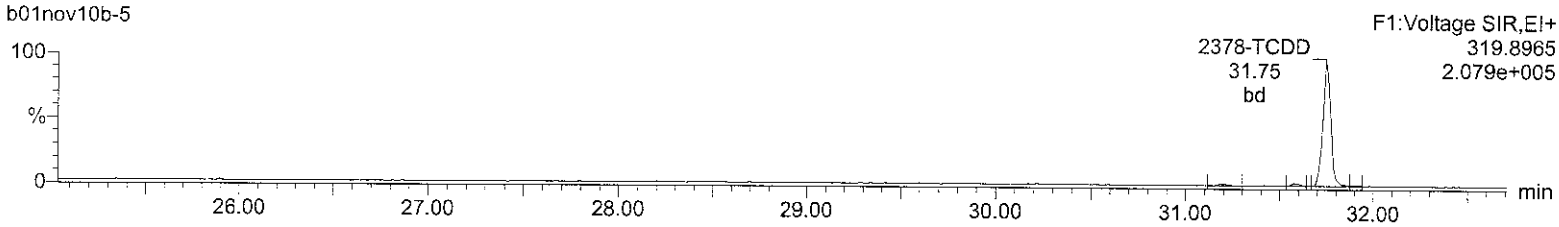
Quantify Sample Report **MassLynx 4.1**
Method 8290 ICAL Report

Dataset: C:\MassLynx\Default.pro\ICAL Results\8290-b01nov10b.qld

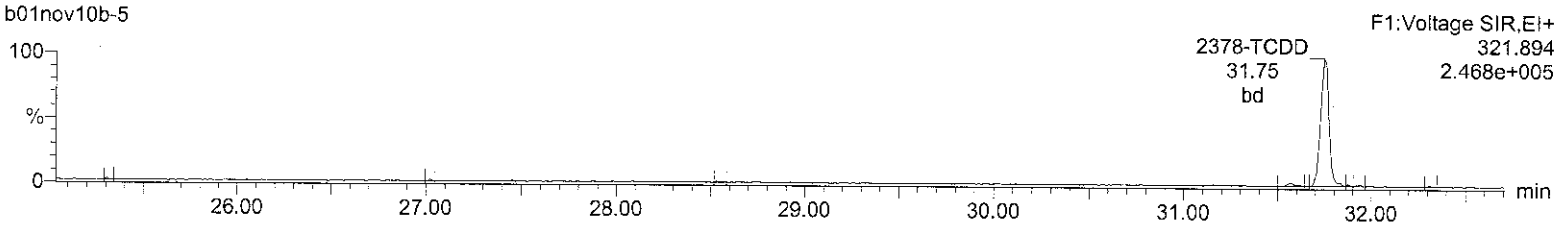
Last Altered: Tuesday, November 02, 2010 08:16:46 Eastern Standard Time
Printed: Tuesday, November 02, 2010 08:17:27 Eastern Standard Time

Name: b01nov10b-5, Date: 01-Nov-2010, Time: 20:53:05, ID: CS2 UD090323-03, Description: , Job: b01nov10b, Task: HRP763_1, User: MJC

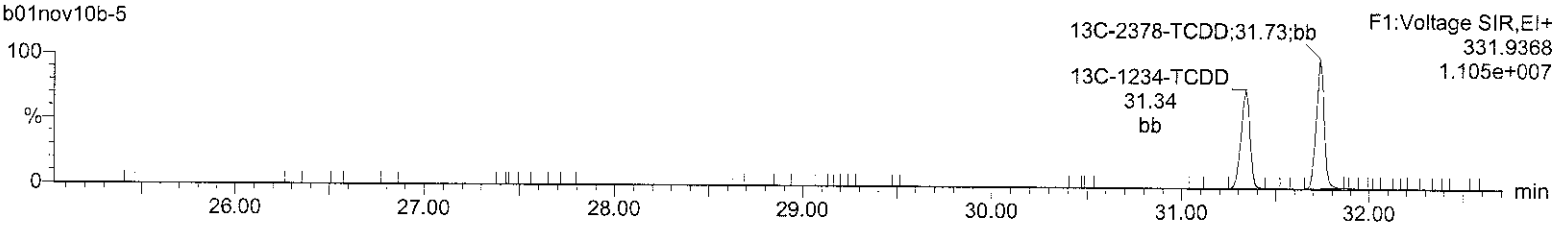
Total-tetradioxins



Total-tetradioxins



13C-2378-TCDD



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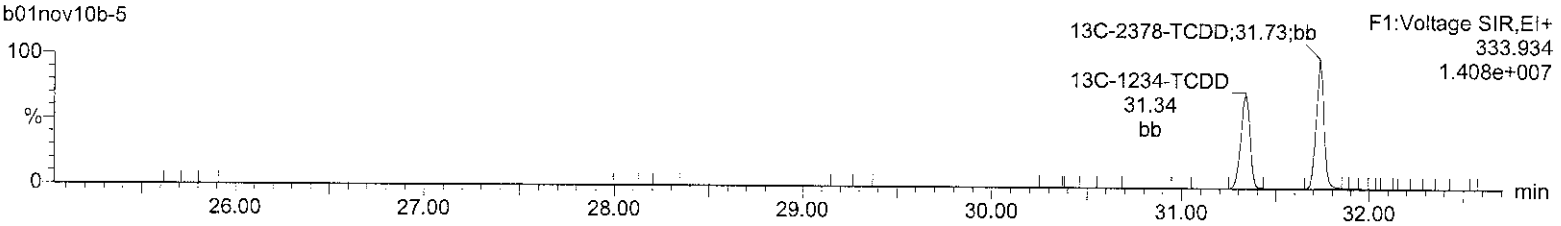
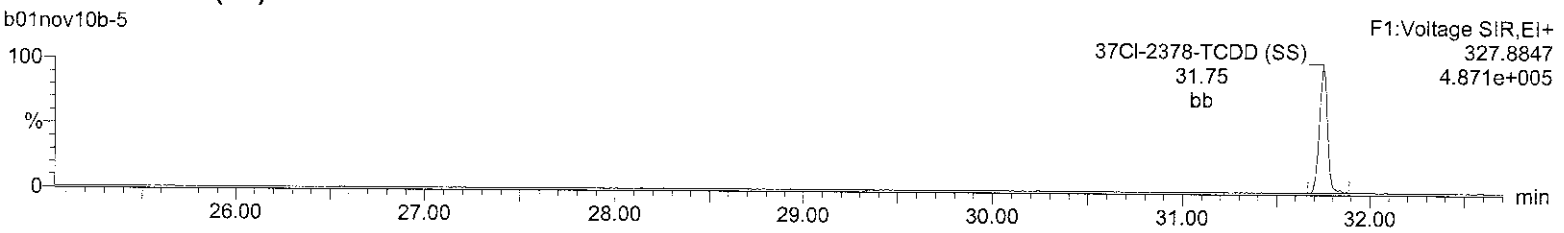
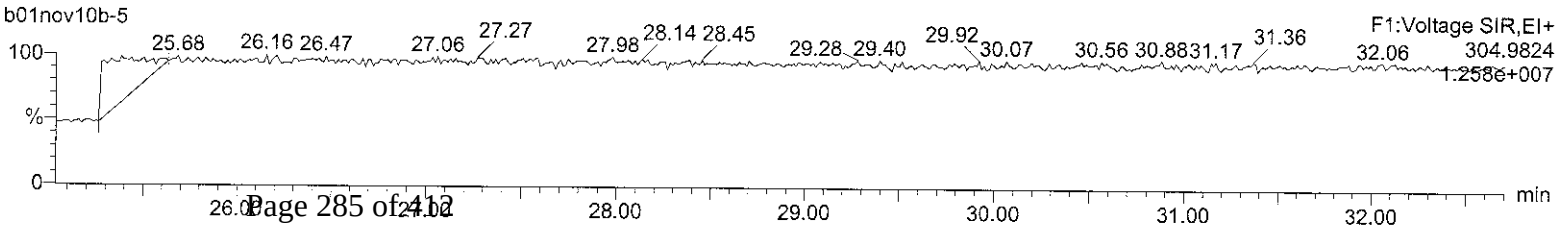


37Cl-2378-TCDD (SS)



Lock Mass F1



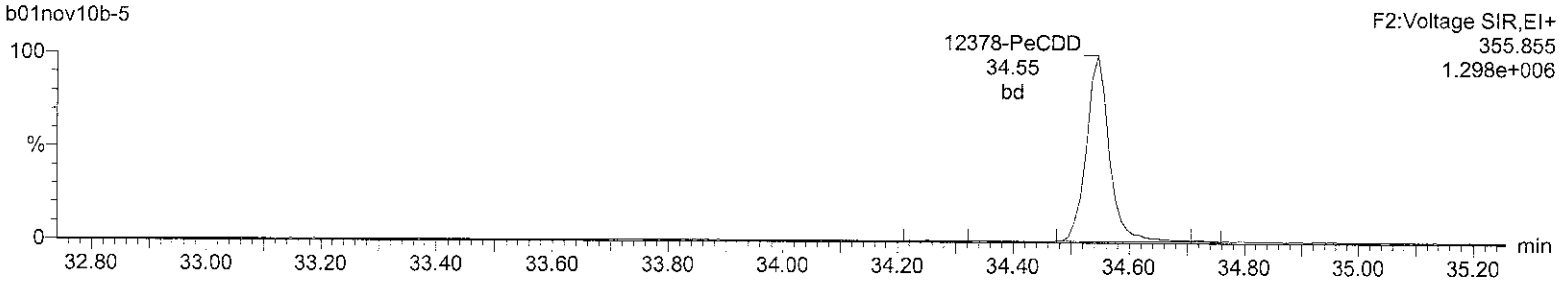
Quantify Sample Report **MassLynx 4.1**
Method 8290 ICAL Report

Dataset: C:\MassLynx\Default.pro\ICAL Results\8290-b01nov10b.qld

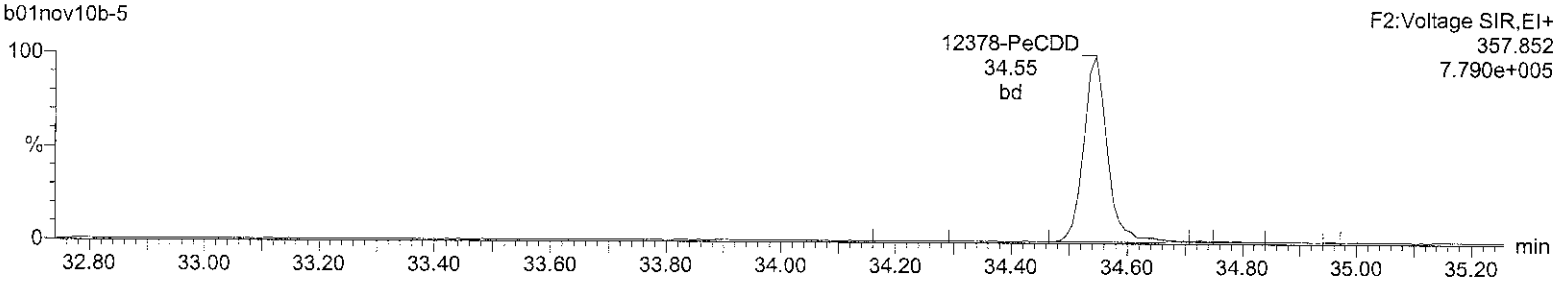
Last Altered: Tuesday, November 02, 2010 08:16:46 Eastern Standard Time
Printed: Tuesday, November 02, 2010 08:17:27 Eastern Standard Time

Name: b01nov10b-5, Date: 01-Nov-2010, Time: 20:53:05, ID: CS2 UD090323-03, Description: , Job: b01nov10b, Task: HRP763_1, User: MJC

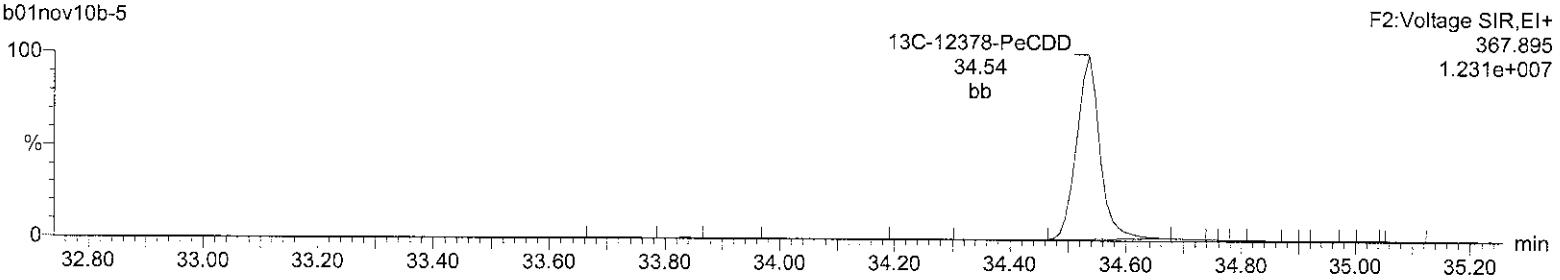
Total-pentadioxins
b01nov10b-5



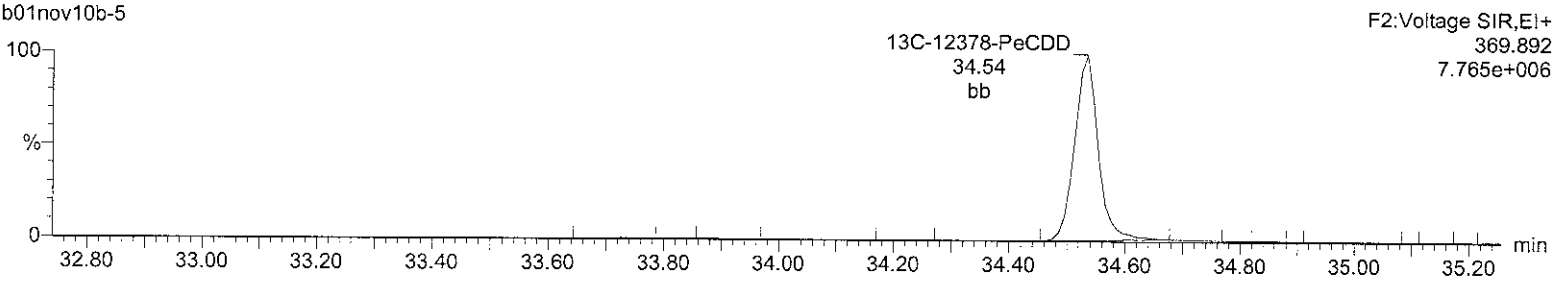
Total-pentadioxins
b01nov10b-5



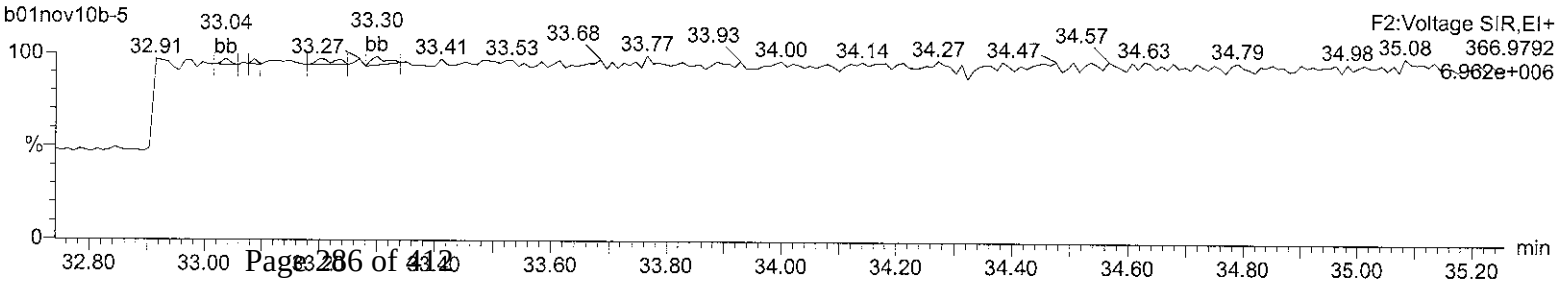
13C-12378-PeCDD
b01nov10b-5



13C-12378-PeCDD
b01nov10b-5



Lock Mass F2
b01nov10b-5



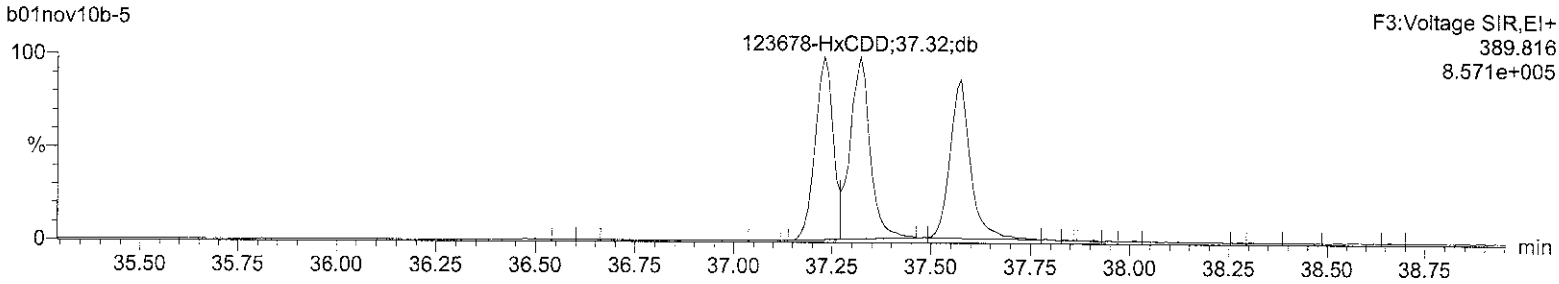
Quantify Sample Report **MassLynx 4.1**
Method 8290 ICAL Report

Dataset: C:\MassLynx\Default.pro\ICAL Results\8290-b01nov10b.qld

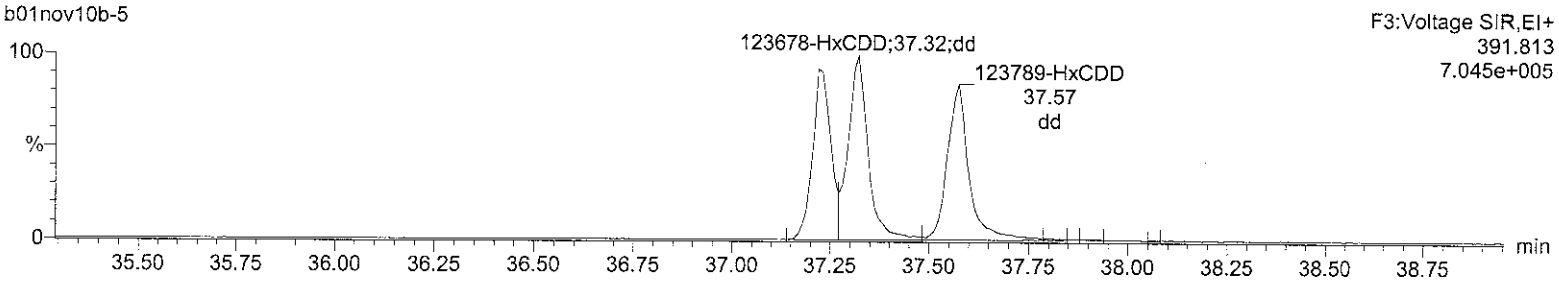
Last Altered: Tuesday, November 02, 2010 08:16:46 Eastern Standard Time
Printed: Tuesday, November 02, 2010 08:17:27 Eastern Standard Time

Name: b01nov10b-5, Date: 01-Nov-2010, Time: 20:53:05, ID: CS2 UD090323-03, Description: , Job: b01nov10b, Task: HRP763_1, User: MJC

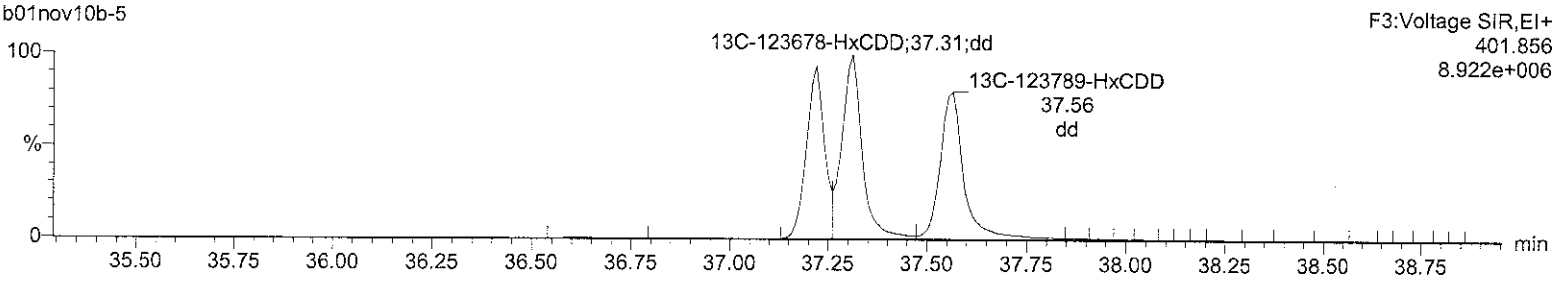
Total-hexadioxins



Total-hexadioxins



13C-123678-HxCDD



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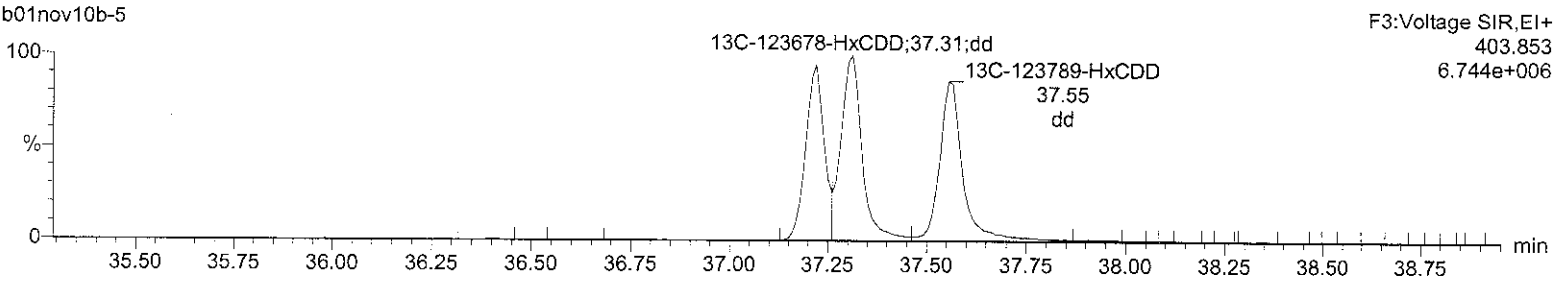
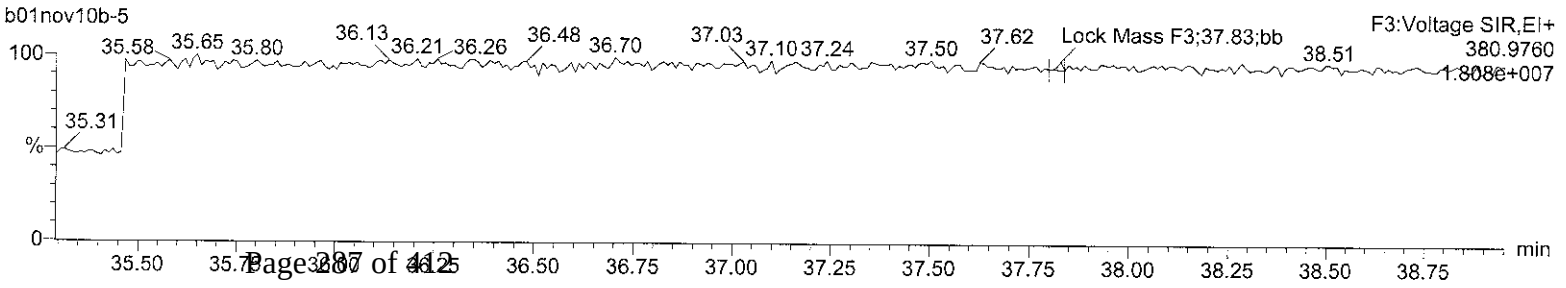


Lock Mass F3



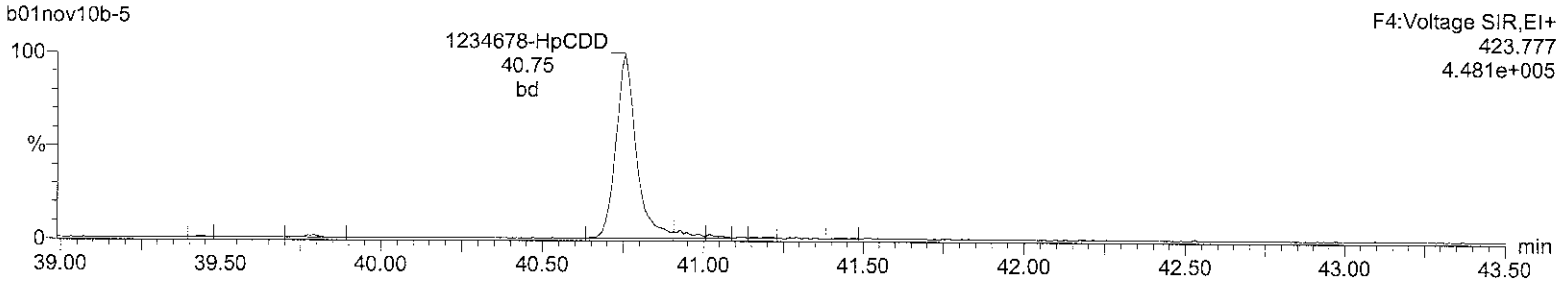
Quantify Sample Report **MassLynx 4.1**
Method 8290 ICAL Report

Dataset: C:\MassLynx\Default.pro\ICAL Results\8290-b01nov10b.qld

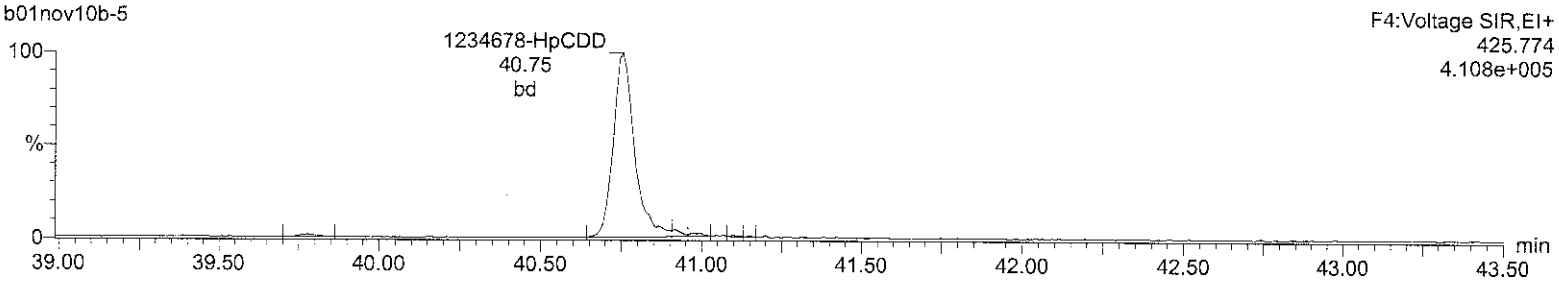
Last Altered: Tuesday, November 02, 2010 08:16:46 Eastern Standard Time
Printed: Tuesday, November 02, 2010 08:17:27 Eastern Standard Time

Name: b01nov10b-5, Date: 01-Nov-2010, Time: 20:53:05, ID: CS2 UD090323-03, Description: , Job: b01nov10b, Task: HRP763_1, User: MJC

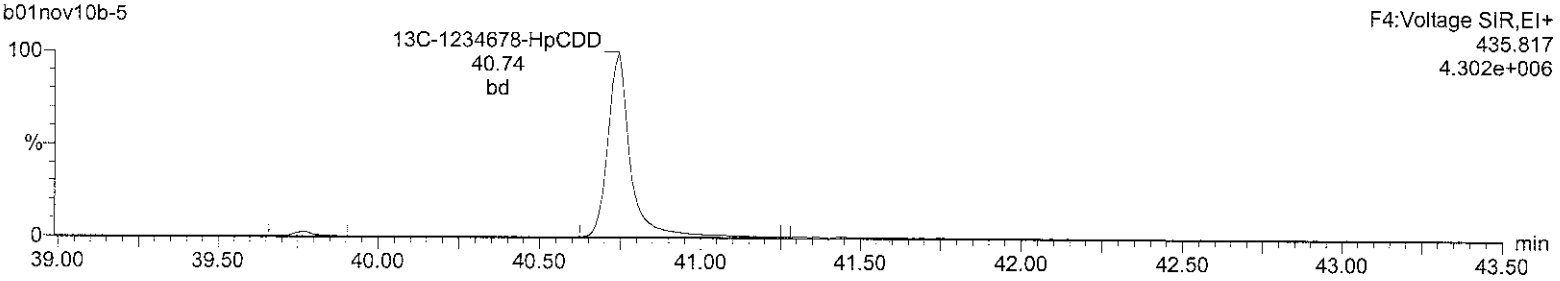
Total-heptadioxins



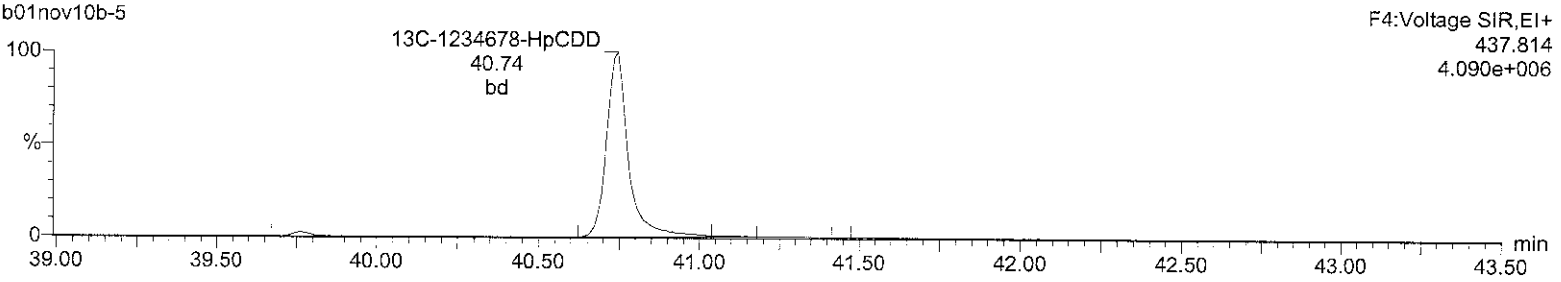
Total-heptadioxins



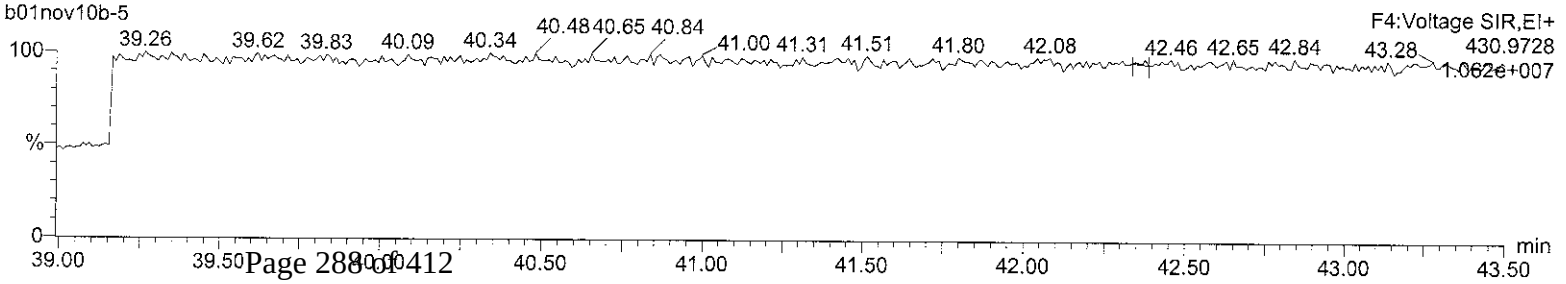
13C-1234678-HpCDD



13C-1234678-HpCDD



Lock Mass F4



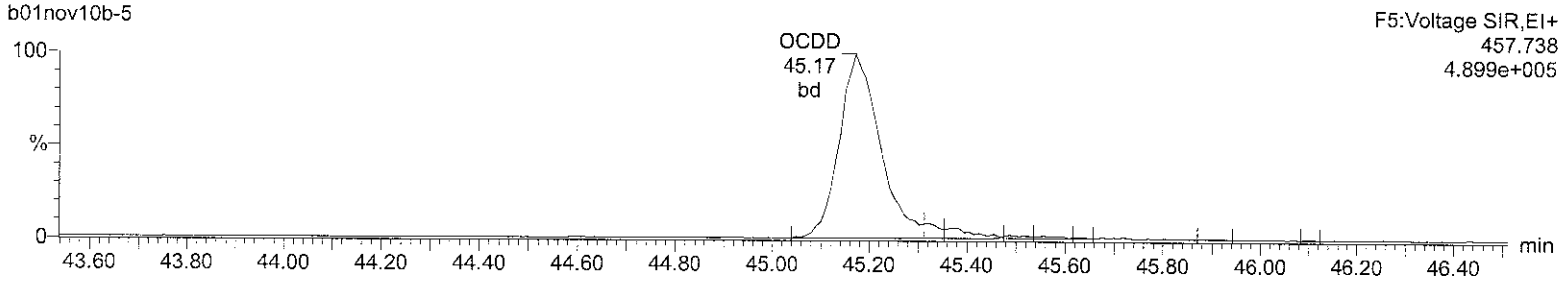
Quantify Sample Report **MassLynx 4.1**
Method 8290 ICAL Report

Dataset: C:\MassLynx\Default.pro\ICAL Results\8290-b01nov10b.qld

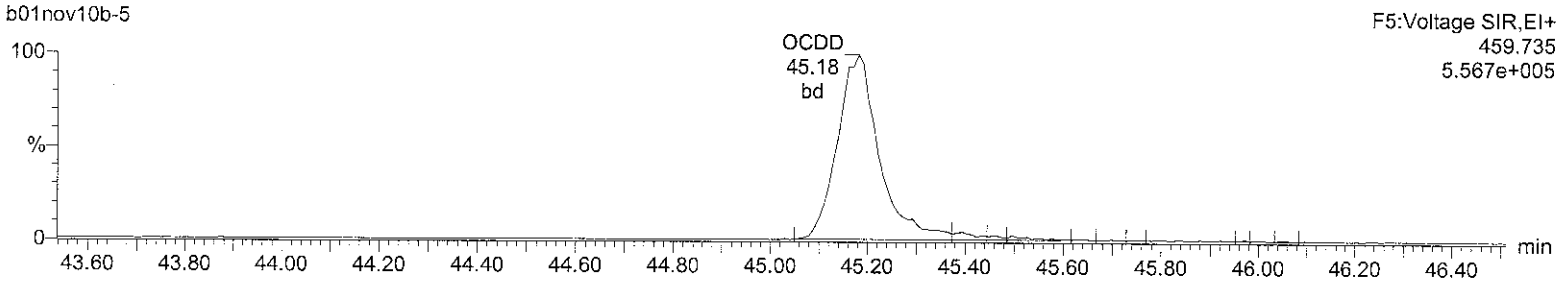
Last Altered: Tuesday, November 02, 2010 08:16:46 Eastern Standard Time
Printed: Tuesday, November 02, 2010 08:17:27 Eastern Standard Time

Name: b01nov10b-5, Date: 01-Nov-2010, Time: 20:53:05, ID: CS2 UD090323-03, Description: , Job: b01nov10b, Task: HRP763_1, User: MJC

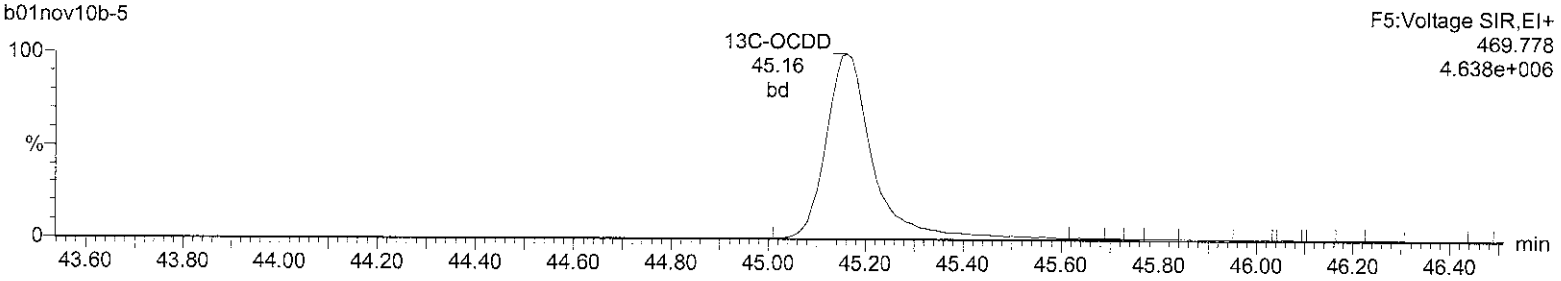
OCDD



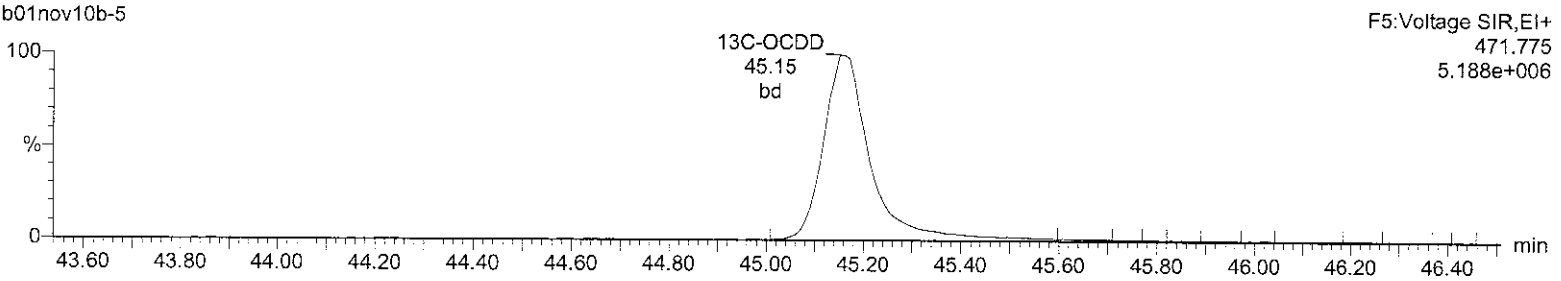
OCDD



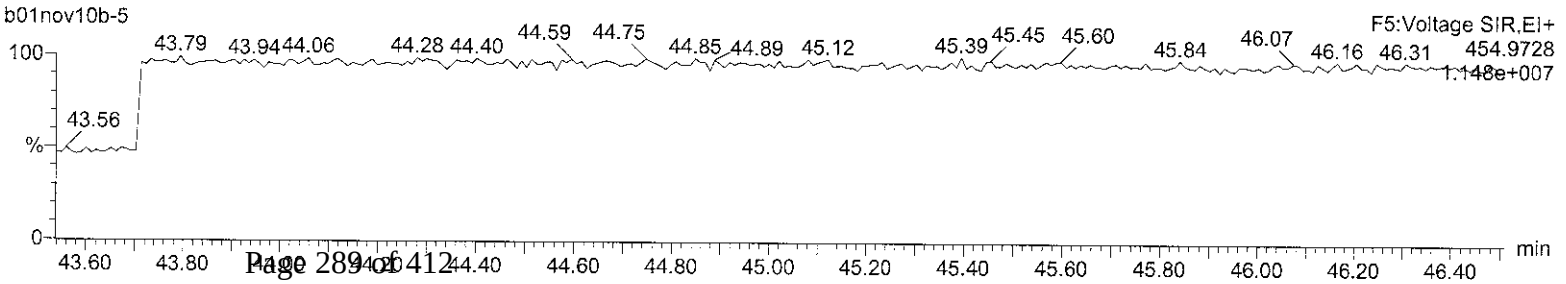
13C-OCDD



13C-OCDD



Lock Mass F5



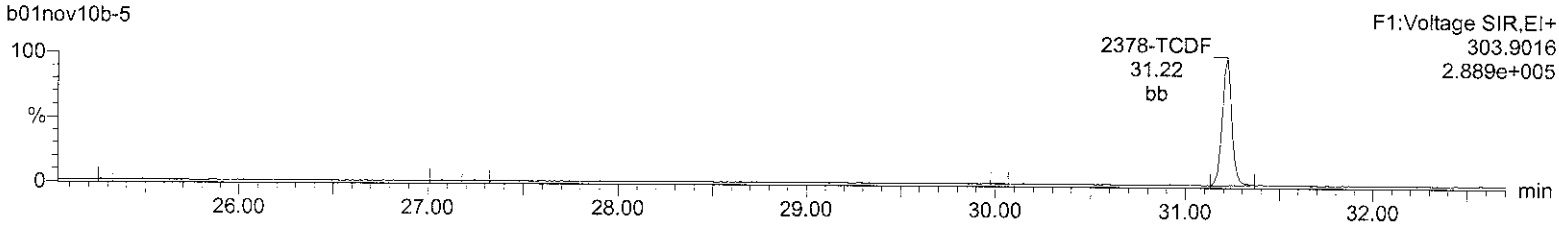
Quantify Sample Report **MassLynx 4.1**
Method 8290 ICAL Report

Dataset: C:\MassLynx\Default.pro\ICAL Results\8290-b01nov10b.qld

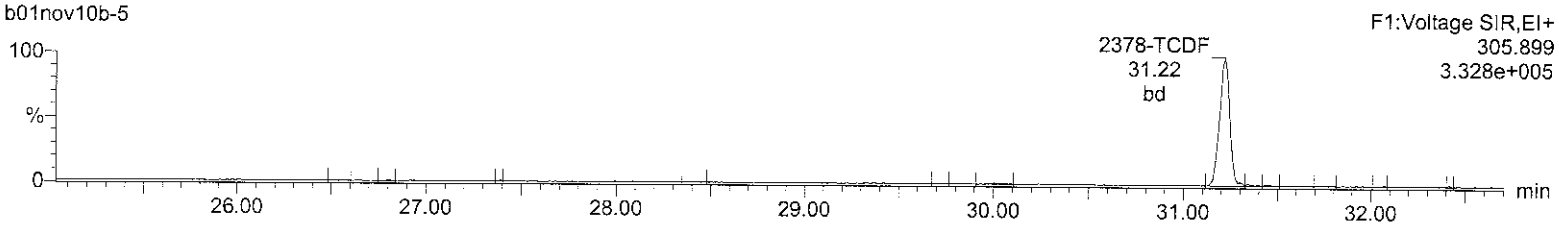
Last Altered: Tuesday, November 02, 2010 08:16:46 Eastern Standard Time
Printed: Tuesday, November 02, 2010 08:17:27 Eastern Standard Time

Name: b01nov10b-5, Date: 01-Nov-2010, Time: 20:53:05, ID: CS2 UD090323-03, Description: , Job: b01nov10b, Task: HRP763_1, User: MJC

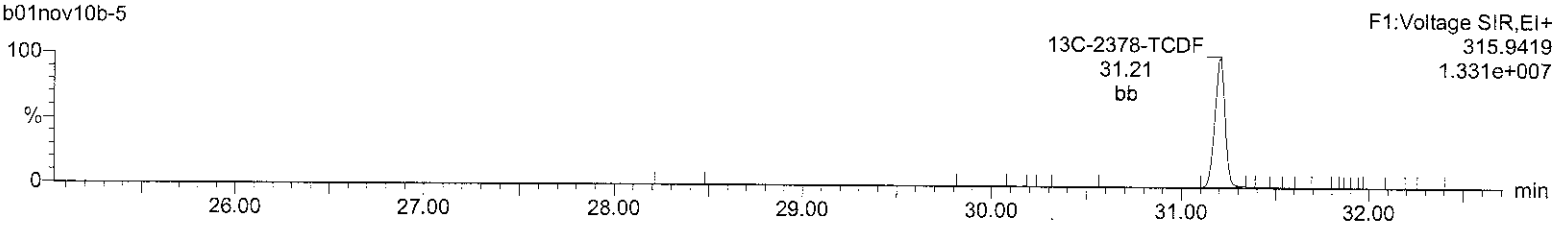
Total-tetrafurans



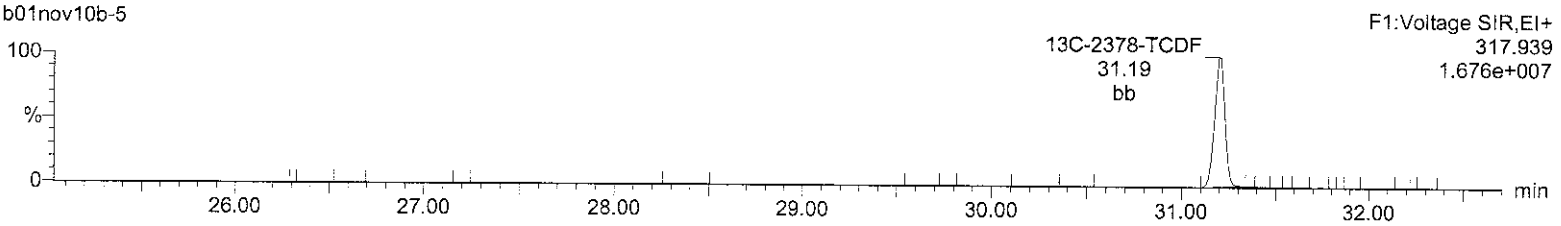
Total-tetrafurans



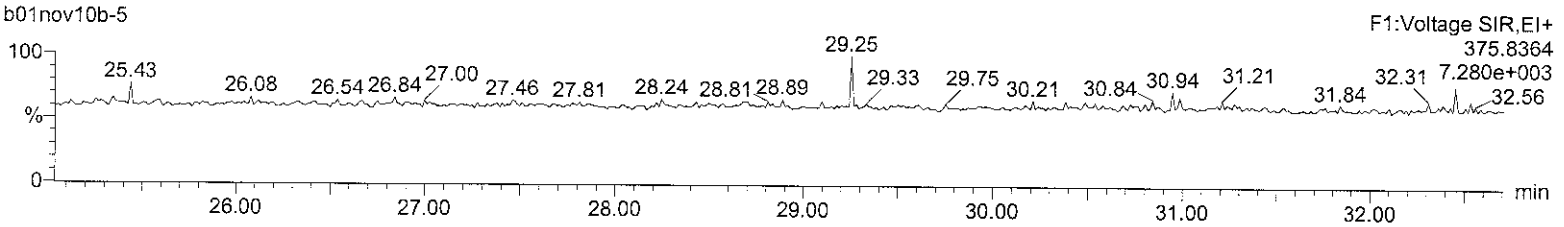
13C-2378-TCDF



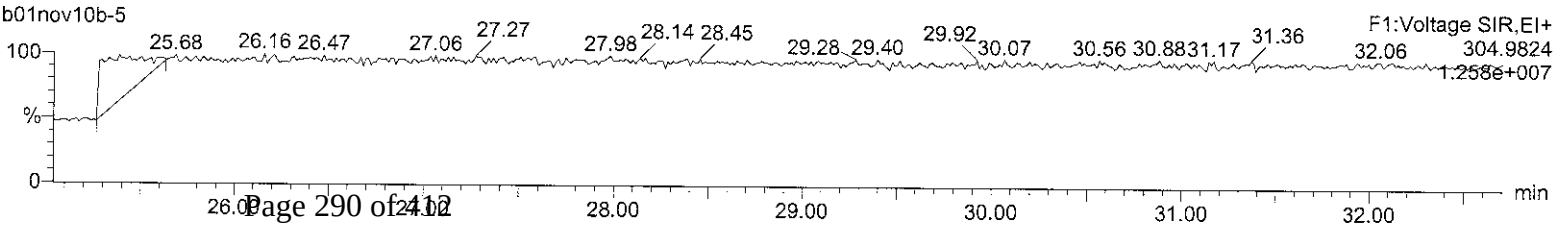
13C-2378-TCDF



HxDPE



Lock Mass F1



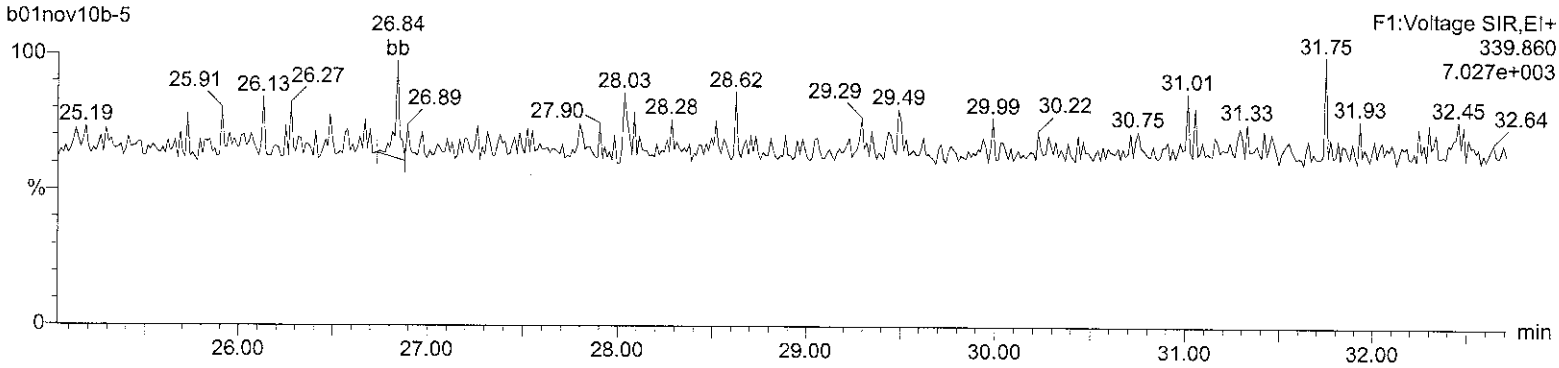
Quantify Sample Report **MassLynx 4.1**
Method 8290 ICAL Report

Dataset: C:\MassLynx\Default.pro\ICAL Results\8290-b01nov10b.qld

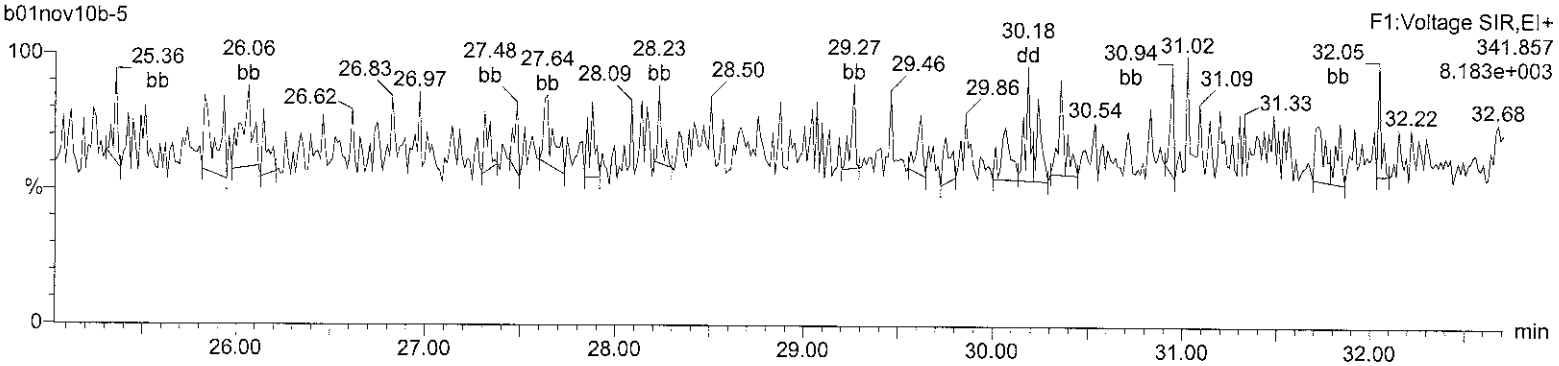
Last Altered: Tuesday, November 02, 2010 08:16:46 Eastern Standard Time
Printed: Tuesday, November 02, 2010 08:17:27 Eastern Standard Time

Name: b01nov10b-5, Date: 01-Nov-2010, Time: 20:53:05, ID: CS2 UD090323-03, Description: , Job: b01nov10b, Task: HRP763_1, User: MJC

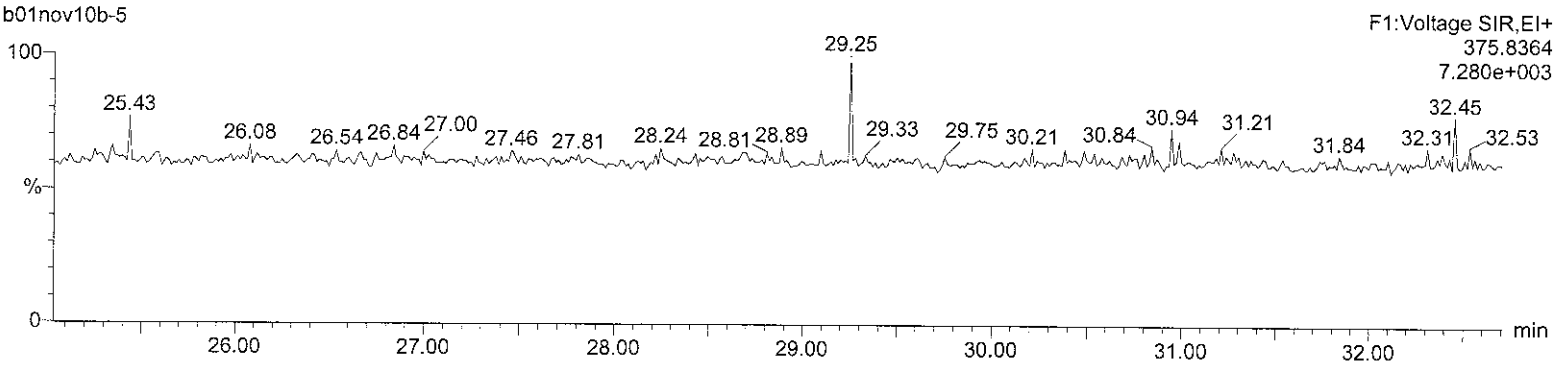
Total-pentafurans (F1)



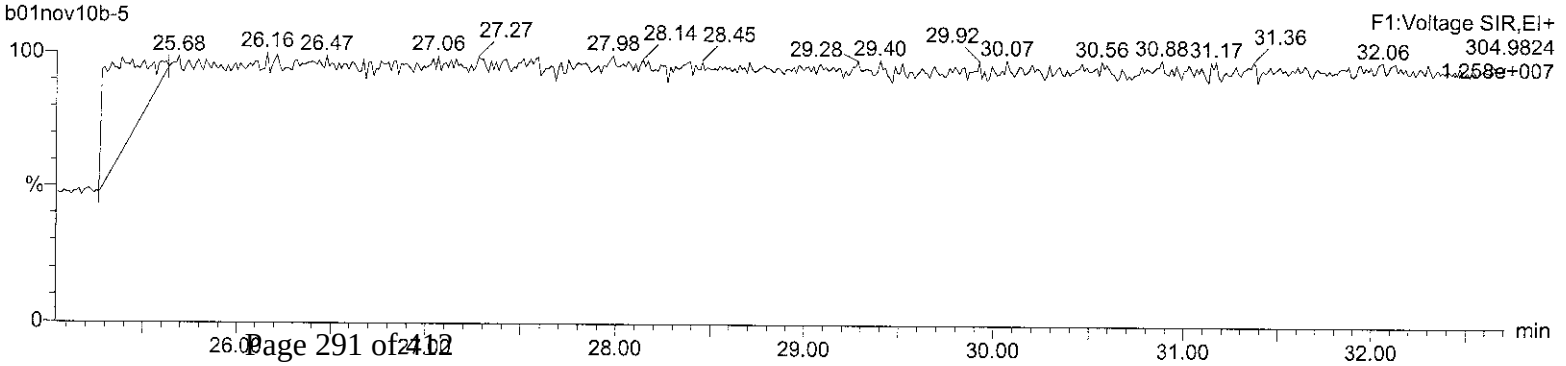
Total-pentafurans (F1)



HxDPE



Lock Mass F1



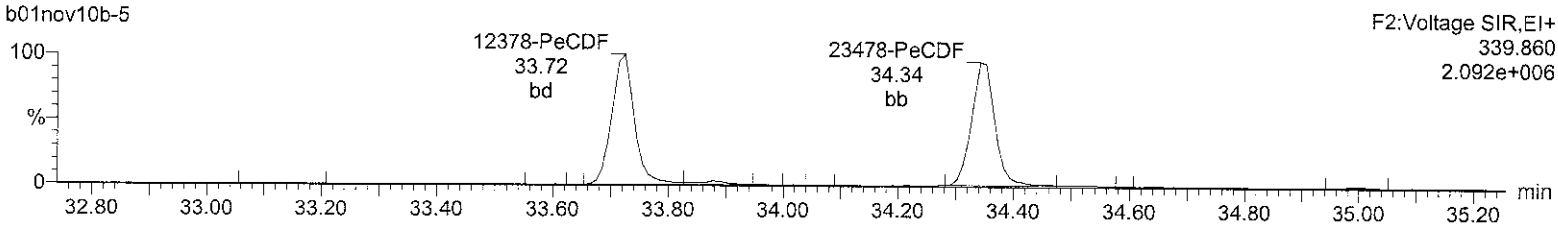
Quantify Sample Report **MassLynx 4.1**
Method 8290 ICAL Report

Dataset: C:\MassLynx\Default.pro\ICAL Results\8290-b01nov10b.qld

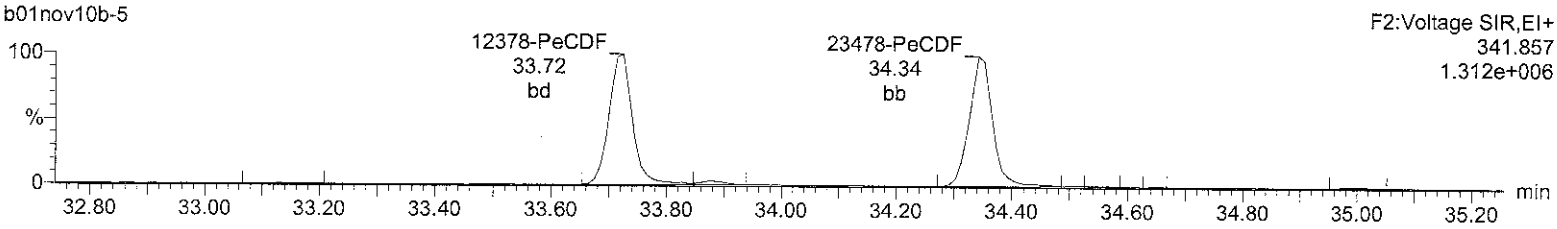
Last Altered: Tuesday, November 02, 2010 08:16:46 Eastern Standard Time
Printed: Tuesday, November 02, 2010 08:17:27 Eastern Standard Time

Name: b01nov10b-5, Date: 01-Nov-2010, Time: 20:53:05, ID: CS2 UD090323-03, Description: , Job: b01nov10b, Task: HRP763_1, User: MJC

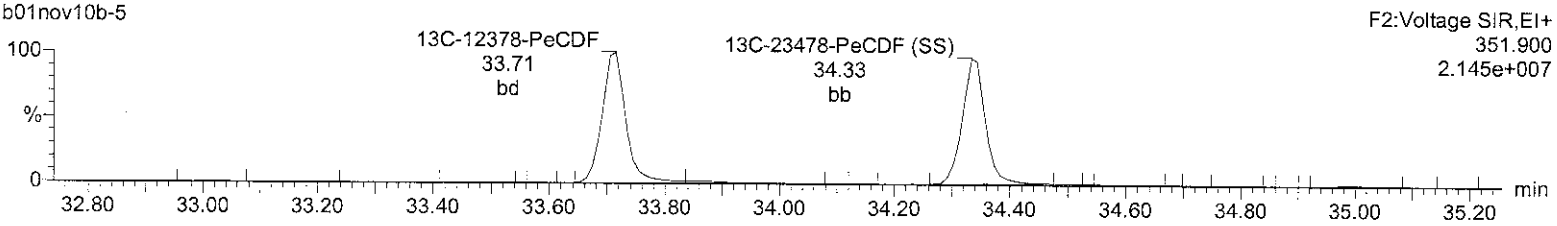
Total-pentafurans



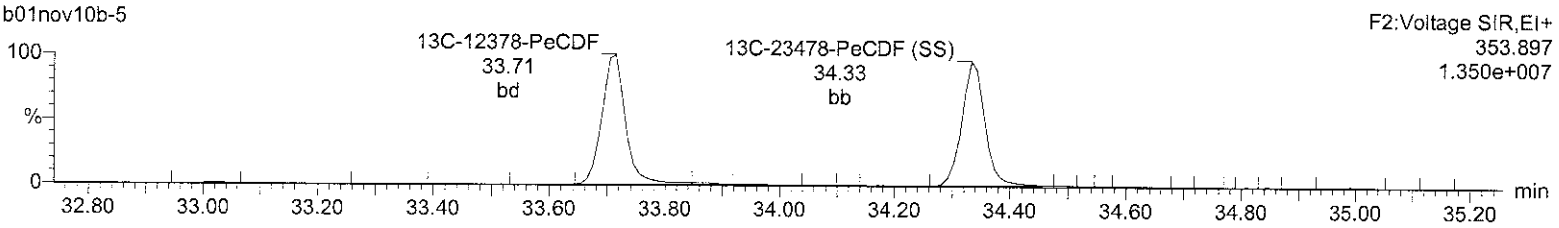
Total-pentafurans



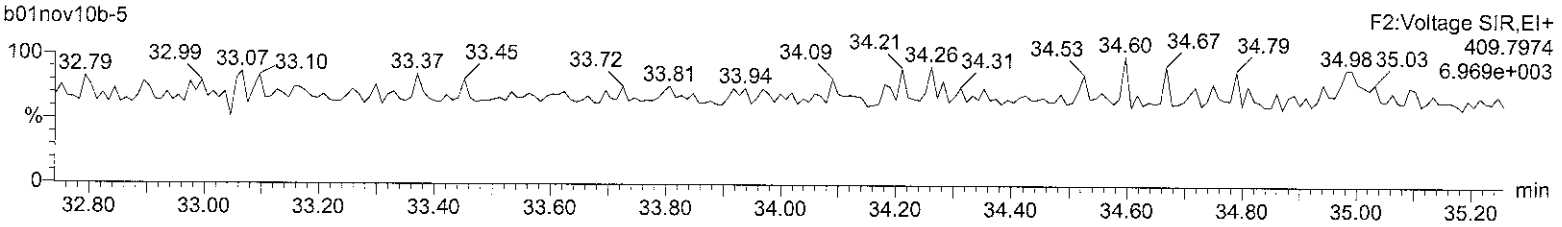
13C-12378-PeCDF



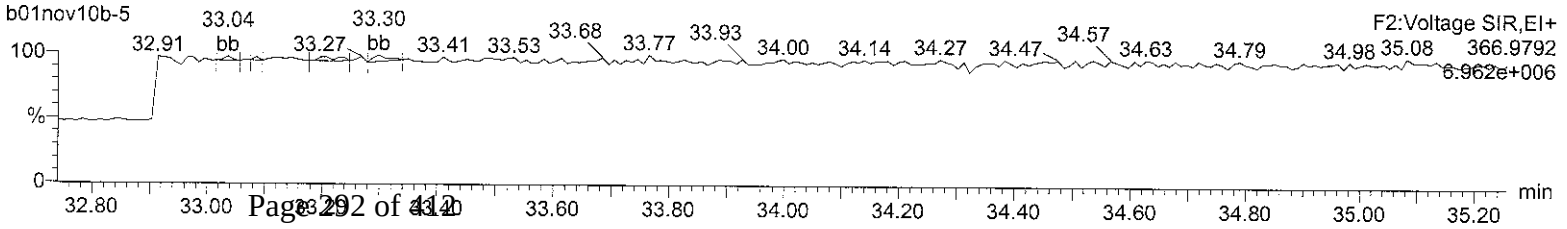
13C-12378-PeCDF



HpDPE



Lock Mass F2



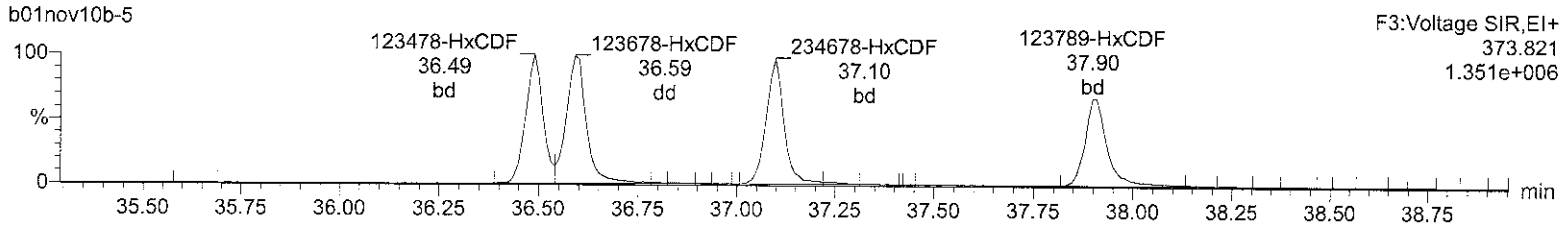
Quantify Sample Report **MassLynx 4.1**
Method 8290 ICAL Report

Dataset: C:\MassLynx\Default.pro\ICAL Results\8290-b01nov10b.qld

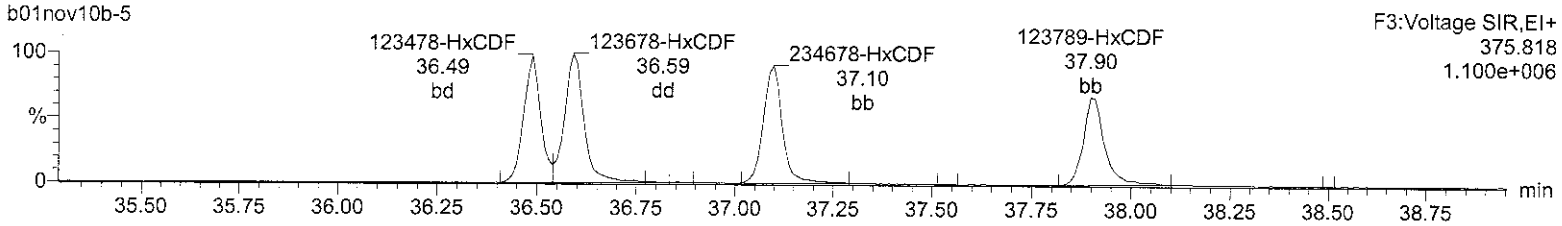
Last Altered: Tuesday, November 02, 2010 08:16:46 Eastern Standard Time
Printed: Tuesday, November 02, 2010 08:17:27 Eastern Standard Time

Name: b01nov10b-5, Date: 01-Nov-2010, Time: 20:53:05, ID: CS2 UD090323-03, Description: , Job: b01nov10b, Task: HRP763_1, User: MJC

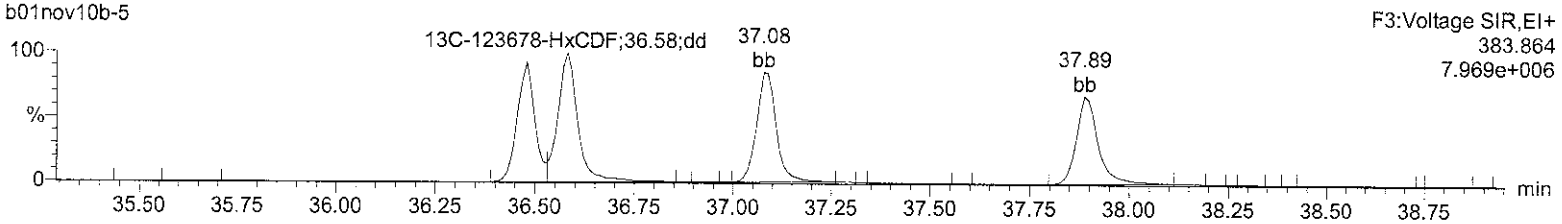
Total-hexafurans



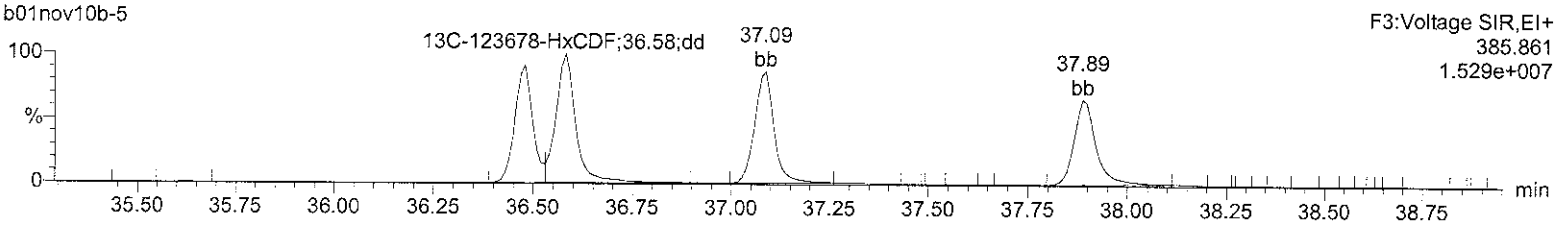
Total-hexafurans



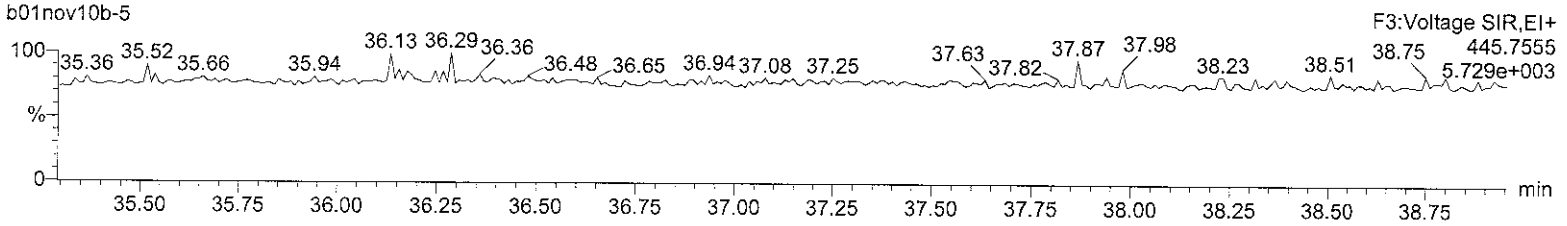
13C-123678-HxCDF



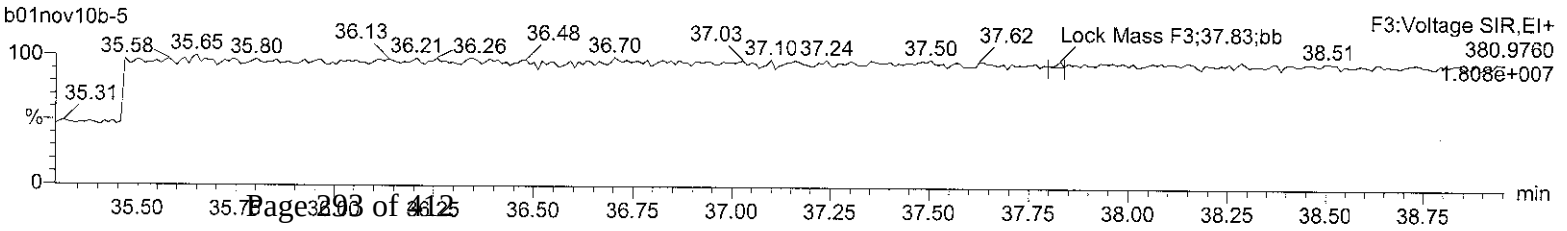
13C-123678-HxCDF



OcDPE



Lock Mass F3



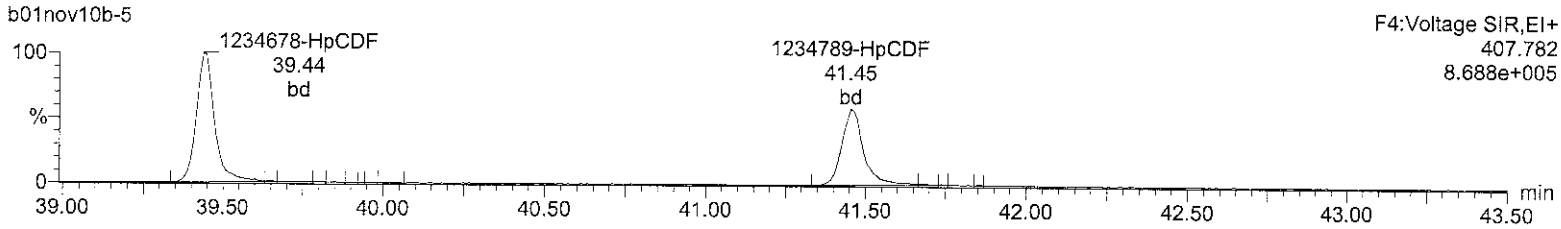
Quantify Sample Report **MassLynx 4.1**
Method 8290 ICAL Report

Dataset: C:\MassLynx\Default.pro\ICAL Results\8290-b01nov10b.qld

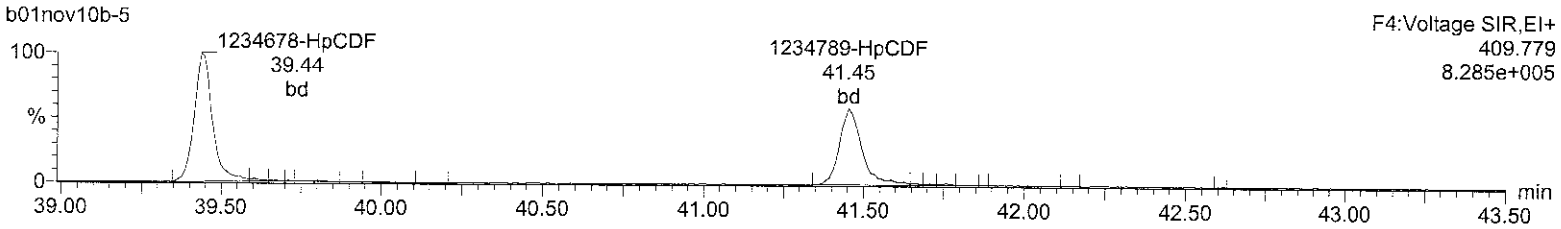
Last Altered: Tuesday, November 02, 2010 08:16:46 Eastern Standard Time
Printed: Tuesday, November 02, 2010 08:17:27 Eastern Standard Time

Name: b01nov10b-5, Date: 01-Nov-2010, Time: 20:53:05, ID: CS2 UD090323-03, Description: , Job: b01nov10b, Task: HRP763_1, User: MJC

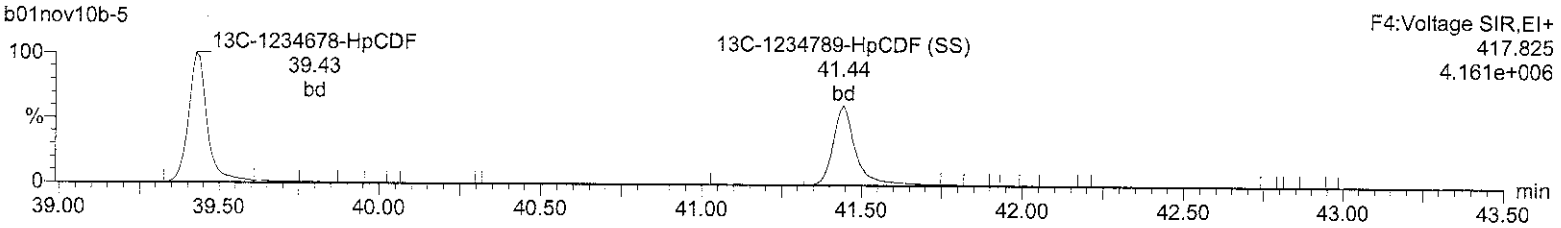
Total-heptafurans



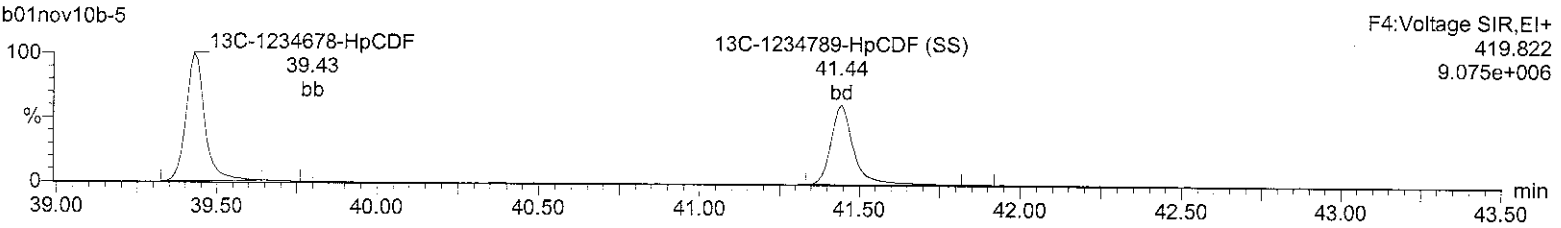
Total-heptafurans



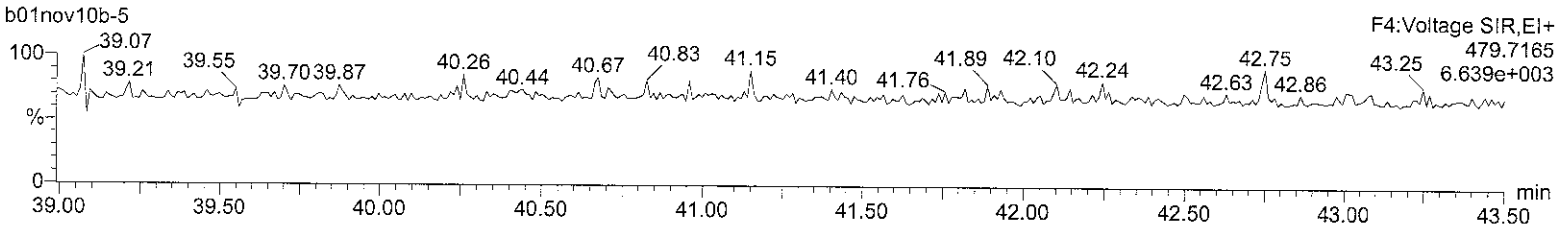
13C-1234678-HpCDF



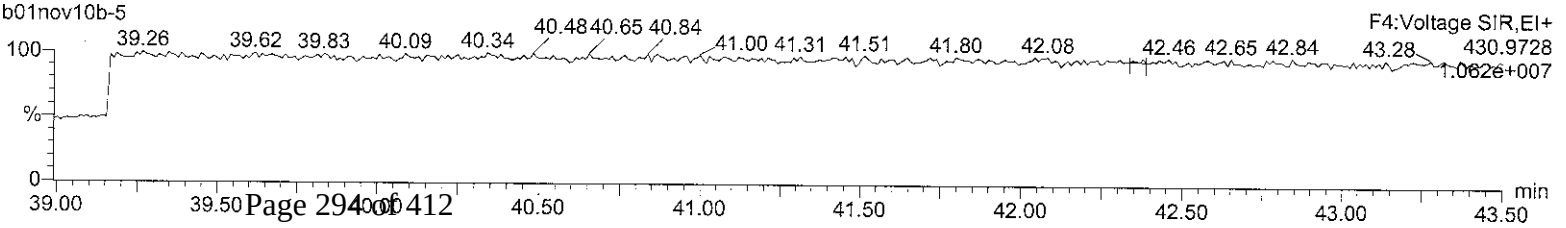
13C-1234678-HpCDF



NoDPE



Lock Mass F4



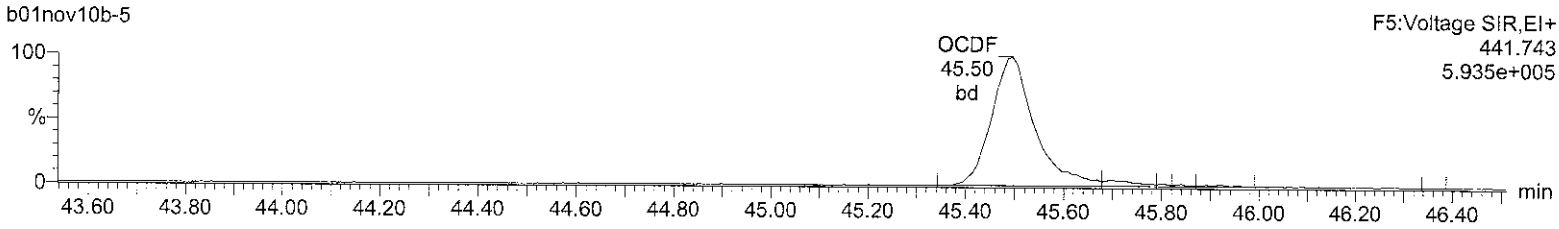
Quantify Sample Report **MassLynx 4.1**
Method 8290 ICAL Report

Dataset: C:\MassLynx\Default.pro\ICAL Results\8290-b01nov10b.qld

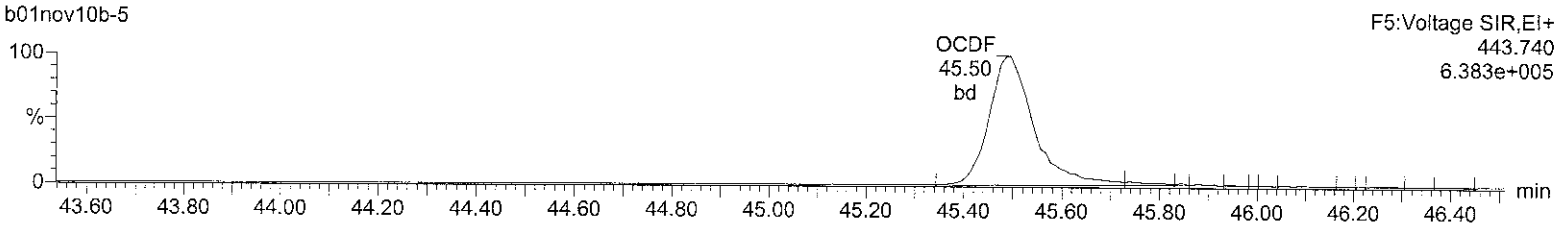
Last Altered: Tuesday, November 02, 2010 08:16:46 Eastern Standard Time
Printed: Tuesday, November 02, 2010 08:17:27 Eastern Standard Time

Name: b01nov10b-5, Date: 01-Nov-2010, Time: 20:53:05, ID: CS2 UD090323-03, Description: , Job: b01nov10b, Task: HRP763_1, User: MJC

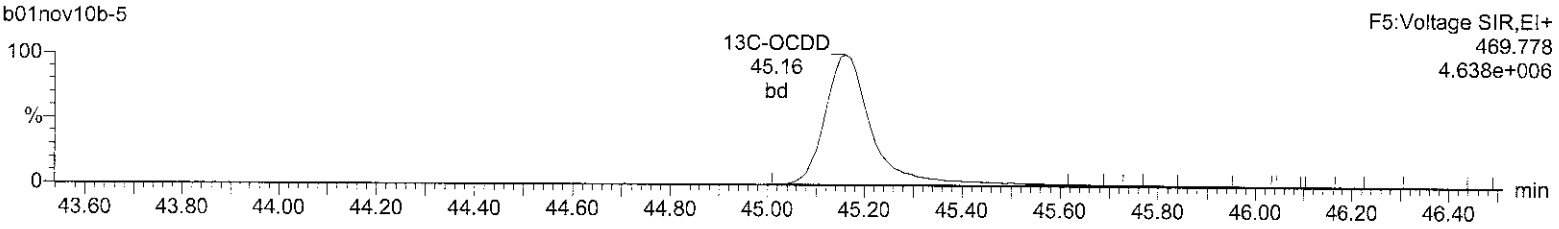
OCDF



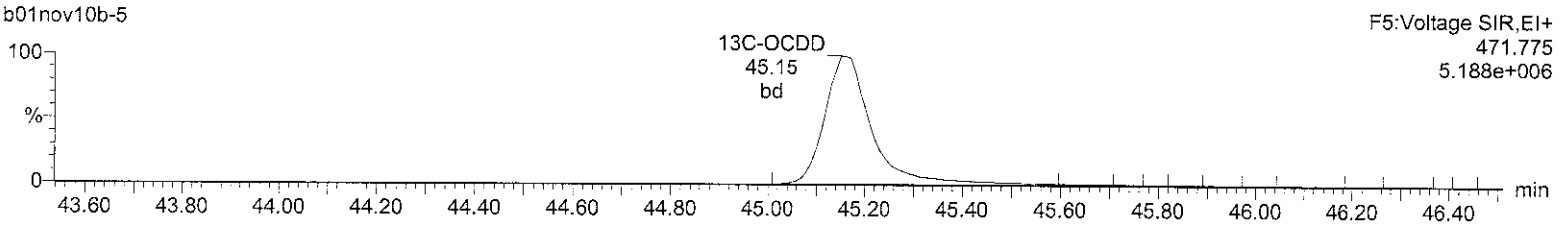
OCDF



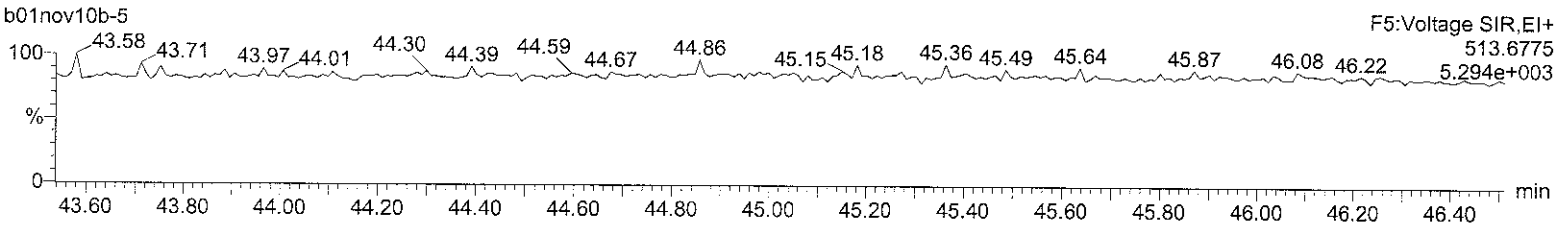
13C-OCDD



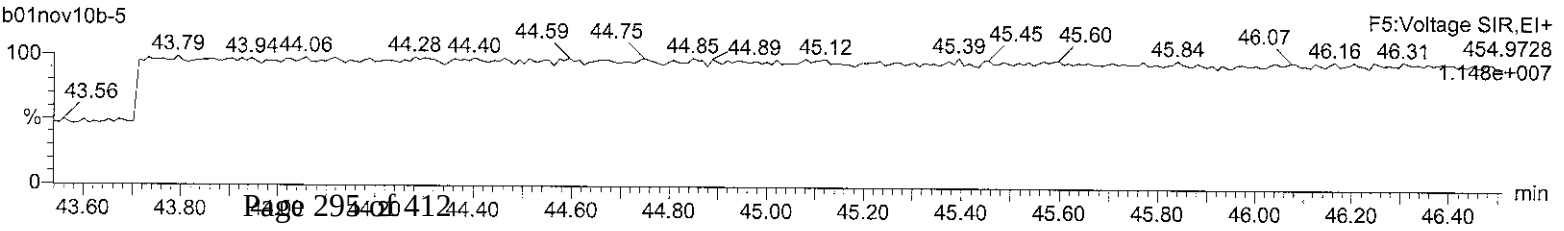
13C-OCDD



DeDPE



Lock Mass F5



Quantify Sample Summary Report **MassLynx 4.1**
Method 8290 ICAL Report

Dataset: C:\MassLynx\Default.pro\ICAL Results\8290-b01nov10b.qld

Last Altered: Tuesday, November 02, 2010 08:19:01 Eastern Standard Time
Printed: Tuesday, November 02, 2010 08:23:00 Eastern Standard Time

Name: b01nov10b-6, Date: 01-Nov-2010, Time: 21:41:31, ID: CS3 UD090323-04, Description: , Job: b01nov10b, Task: HRP763_1, User: MJC

	Name	Ion1Area	Ion2Area	Response	RT	RRT	RA	Fail?	pg/uL	RRF	EDL	Height1	Noise1	S/N1	Height2	Noise2	S/N2	M
1	2378-TCDD	4.36e4	5.35e4	9.71e4	31.76	1.00	0.81	NO	9.813	0.994	0.0278	9.09e5	802	1132.5	1.12e6	1024	1095.4	bb
2	12378-PeCDD	2.72e5	1.78e5	4.50e5	34.56	1.00	1.53	NO	49.794	1.028	0.0685	5.68e6	2466	2303.1	3.60e6	1635	2203.3	bb
3	123478-HxCDD	2.11e5	1.67e5	3.79e5	37.24	1.00	1.26	NO	50.130	0.899	0.142	3.97e6	2884	1378.0	3.11e6	2940	1056.4	bd
4	123678-HxCDD	2.32e5	1.85e5	4.18e5	37.33	1.00	1.25	NO	51.203	0.991	0.131	3.98e6	2884	1381.6	3.05e6	2940	1038.5	db
5	123789-HxCDD	2.07e5	1.64e5	3.71e5	37.57	1.01	1.26	NO	50.852	0.880	0.147	3.38e6	2884	1173.2	2.63e6	2940	895.7	bd
6	1234678-HpCDD	1.56e5	1.53e5	3.09e5	40.76	1.00	1.02	NO	51.460	1.034	0.219	2.04e6	2559	799.0	1.96e6	2788	703.7	bb
7	OCDD	2.41e5	2.72e5	5.14e5	45.19	1.00	0.89	NO	104.545	1.041	0.503	2.34e6	4871	480.1	2.55e6	2486	1024.0	bd
8	2378-TCDF	7.33e4	9.55e4	1.69e5	31.22	1.00	0.77	NO	10.207	1.004	0.0239	1.22e6	742	1646.3	1.59e6	1392	1145.7	bb
9	12378-PeCDF	4.60e5	2.94e5	7.55e5	33.72	1.00	1.56	NO	51.618	0.964	0.107	9.88e6	5587	1768.0	6.39e6	5255	1215.5	bd
10	23478-PeCDF	4.43e5	2.86e5	7.29e5	34.35	1.02	1.55	NO	50.981	0.932	0.109	9.61e6	5587	1720.7	6.36e6	5255	1209.8	bb
11	123478-HxCDF	3.20e5	2.61e5	5.81e5	36.50	1.00	1.23	NO	49.277	0.896	0.222	6.13e6	7007	874.9	4.82e6	7499	642.7	bd
12	123678-HxCDF	3.83e5	3.10e5	6.92e5	36.60	1.00	1.24	NO	50.472	1.068	0.190	6.73e6	7007	959.9	5.25e6	7499	700.2	dd
13	234678-HxCDF	3.34e5	2.66e5	6.00e5	37.10	1.01	1.26	NO	48.415	0.925	0.211	5.69e6	7007	812.0	4.56e6	7499	608.1	bd
14	123789-HxCDF	2.78e5	2.21e5	4.99e5	37.91	1.04	1.26	NO	48.586	0.769	0.254	4.23e6	7007	603.9	3.33e6	7499	444.3	bd
15	1234678-HpCDF	2.74e5	2.70e5	5.44e5	39.45	1.00	1.02	NO	52.406	1.338	0.174	4.07e6	4755	855.3	3.92e6	4023	974.1	bb
16	1234789-HpCDF	1.97e5	1.91e5	3.88e5	41.46	1.05	1.03	NO	51.340	0.955	0.238	2.48e6	4755	520.8	2.31e6	4023	573.7	bd
17	OCDF	2.99e5	3.30e5	6.29e5	45.52	1.01	0.91	NO	103.426	1.275	0.343	2.70e6	3045	887.4	3.06e6	3174	963.5	bd
18	13C-2378-TCDD	4.31e5	5.46e5	9.77e5	31.75	1.01	0.79	NO	94.508	1.058	0.0668	8.58e6	2533	3388.7	1.06e7	1390	7641.2	bb
19	13C-12378-PeCDD	5.33e5	3.42e5	8.75e5	34.55	1.10	1.56	NO	99.737	0.948	0.0931	1.06e7	2695	3934.1	6.68e6	1943	3436.0	bd
20	13C-123678-HxCDD	4.67e5	3.76e5	8.43e5	37.32	0.99	1.24	NO	103.322	1.149	0.127	7.63e6	2726	2799.1	6.15e6	2779	2212.8	db
21	13C-1234678-HpCDD	3.07e5	2.91e5	5.98e5	40.75	1.08	1.06	NO	101.824	0.815	0.224	3.74e6	3745	999.6	3.65e6	3265	1116.5	bd
22	13C-OCDD	4.75e5	5.12e5	9.87e5	45.17	1.20	0.93	NO	201.316	0.673	0.239	4.25e6	3735	1137.2	4.67e6	2506	1864.2	bd
23	13C-2378-TCDF	7.45e5	9.36e5	1.68e6	31.21	1.00	0.80	NO	99.979	1.821	0.0350	1.21e7	1741	6948.1	1.51e7	1604	9440.6	bb
24	13C-12378-PeCDF	9.58e5	6.07e5	1.56e6	33.71	1.08	1.58	NO	100.115	1.694	0.177	1.99e7	9477	2100.2	1.29e7	6263	2059.5	bd
25	13C-123678-HxCDF	4.46e5	8.51e5	1.30e6	36.59	0.97	0.52	NO	108.432	1.768	0.200	7.43e6	5737	1295.0	1.41e7	7020	2009.9	dd
26	13C-1234678-HpCDF	2.56e5	5.57e5	8.13e5	39.44	1.05	0.46	NO	102.529	1.108	0.191	3.74e6	3705	1009.3	8.22e6	4346	1891.0	bd
27	13C-1234-TCDD	4.10e5	5.14e5	9.24e5	31.34	0.00	0.80	NO	100.000	1.000	0.0748	6.98e6	2533	2756.3	8.95e6	1390	6438.0	bb
28	13C-123789-HxCDD	4.05e5	3.29e5	7.34e5	37.56	0.00	1.23	NO	100.000	1.000	0.141	6.47e6	2726	2374.6	5.12e6	2779	1841.0	bb
29	37Cl-2378-TCDD (SS)	1.01e5		1.01e5	31.76	1.00			9.840	1.037	0.0187	2.06e6	1281	1606.4				bb
30	13C-23478-PeCDF (SS)	8.86e5	5.58e5	1.44e6	34.34	1.02	1.59	NO	98.872	0.923	0.156	1.92e7	9477	2024.5	1.23e7	6263	1968.3	bb
31	13C-123478-HxCDF (SS)	3.37e5	6.52e5	9.90e5	36.49	1.00	0.52	NO	94.211	0.763	0.219	6.42e6	5737	1119.3	1.26e7	7020	1797.6	bd
32	13C-123478-HxCDD (SS)	4.03e5	3.21e5	7.25e5	37.22	1.00	1.25	NO	99.836	0.860	0.139	7.26e6	2726	2665.0	5.72e6	2779	2057.8	bd
33	13C-1234789-HpCDF (SS)	1.86e5	4.22e5	6.08e5	41.45	1.05	0.44	NO	98.952	0.748	0.269	2.25e6	3705	607.6	5.11e6	4346	1176.1	bd

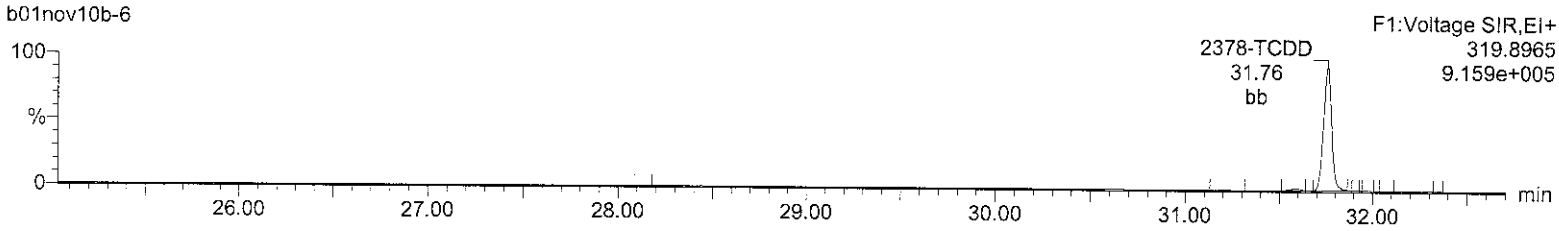
Quantify Sample Report **MassLynx 4.1**
Method 8290 ICAL Report

Dataset: C:\MassLynx\Default.pro\ICAL Results\8290-b01nov10b.qld

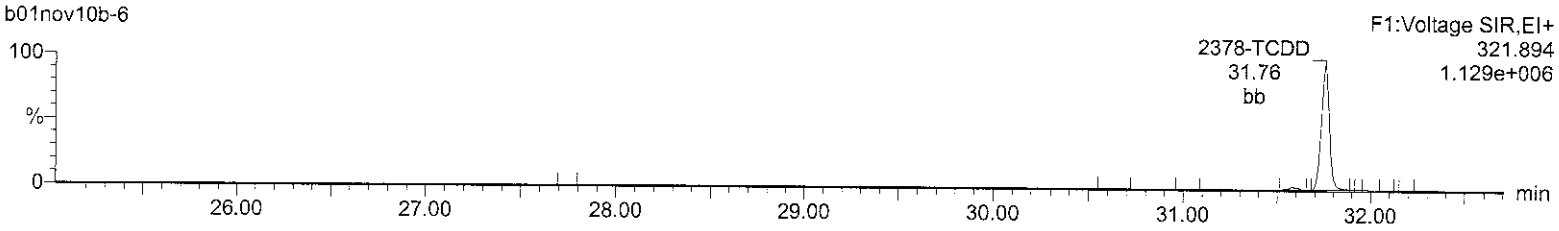
Last Altered: Tuesday, November 02, 2010 08:16:46 Eastern Standard Time
Printed: Tuesday, November 02, 2010 08:17:27 Eastern Standard Time

Name: b01nov10b-6, Date: 01-Nov-2010, Time: 21:41:31, ID: CS3 UD090323-04, Description: , Job: b01nov10b, Task: HRP763_1, User: MJC

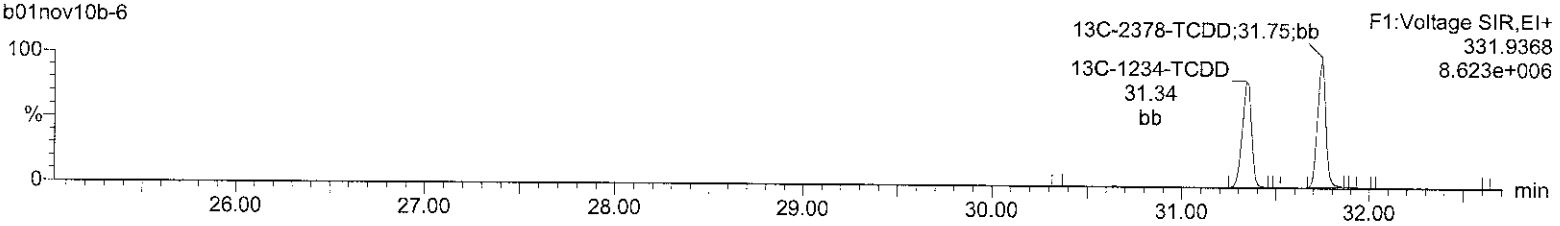
Total-tetradioxins



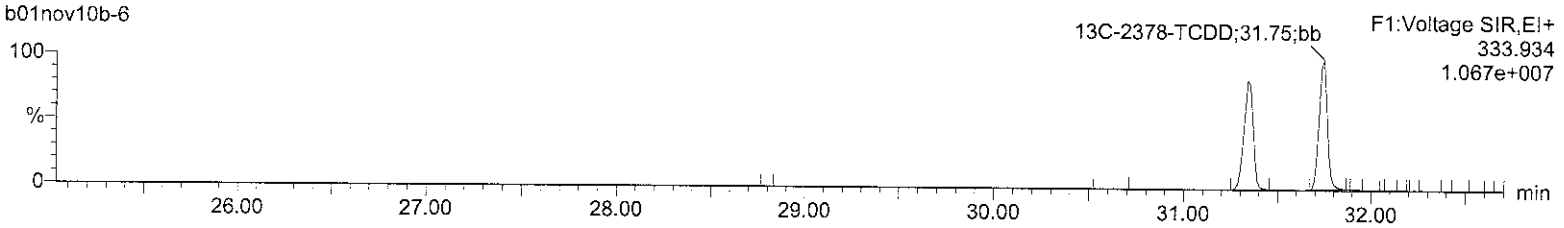
Total-tetradioxins



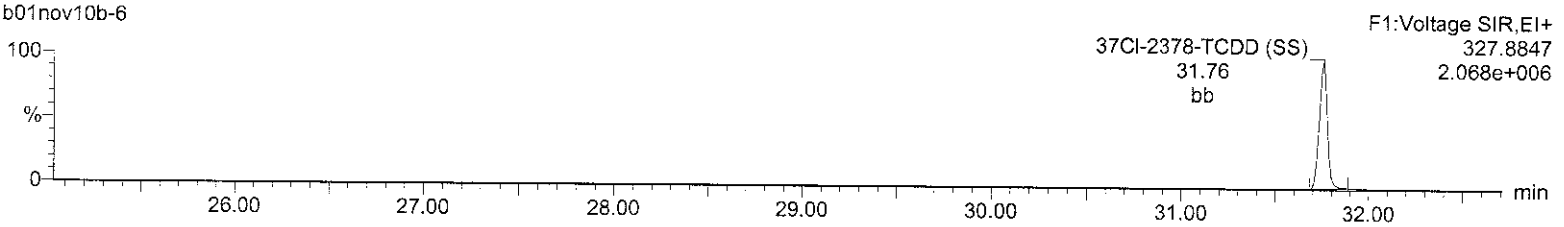
13C-2378-TCDD



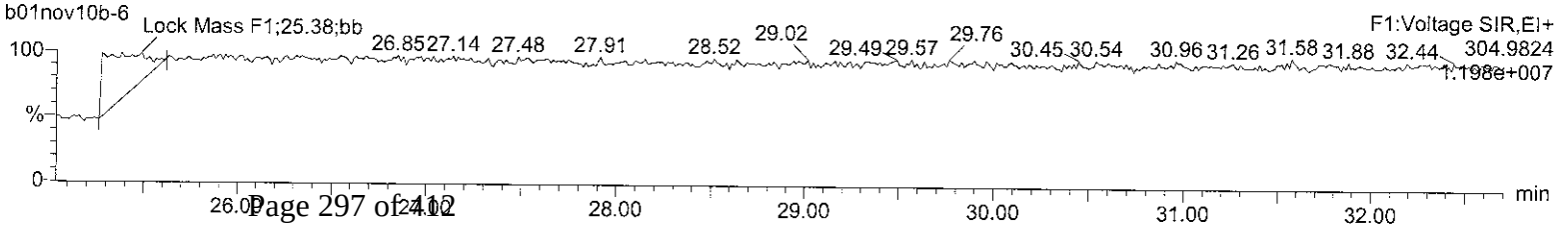
13C-2378-TCDD



37Cl-2378-TCDD (SS)



Lock Mass F1



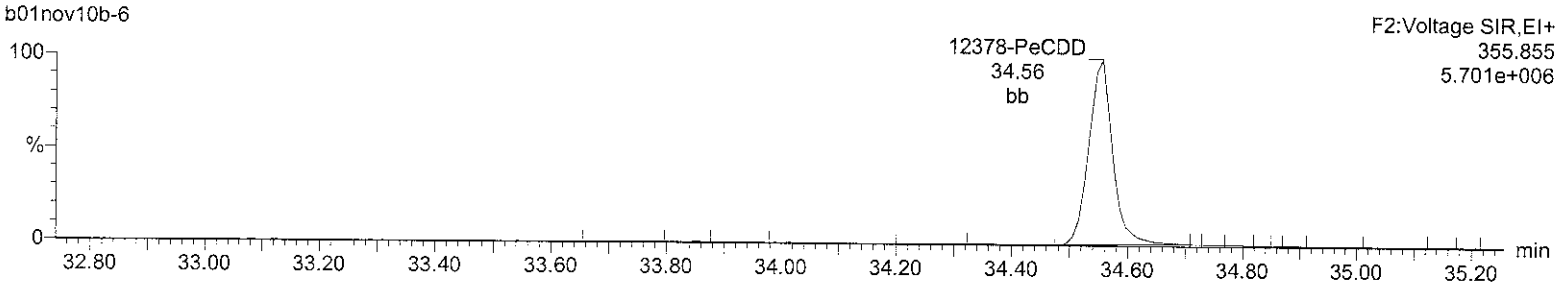
Quantify Sample Report **MassLynx 4.1**
Method 8290 ICAL Report

Dataset: C:\MassLynx\Default.pro\ICAL Results\8290-b01nov10b.qld

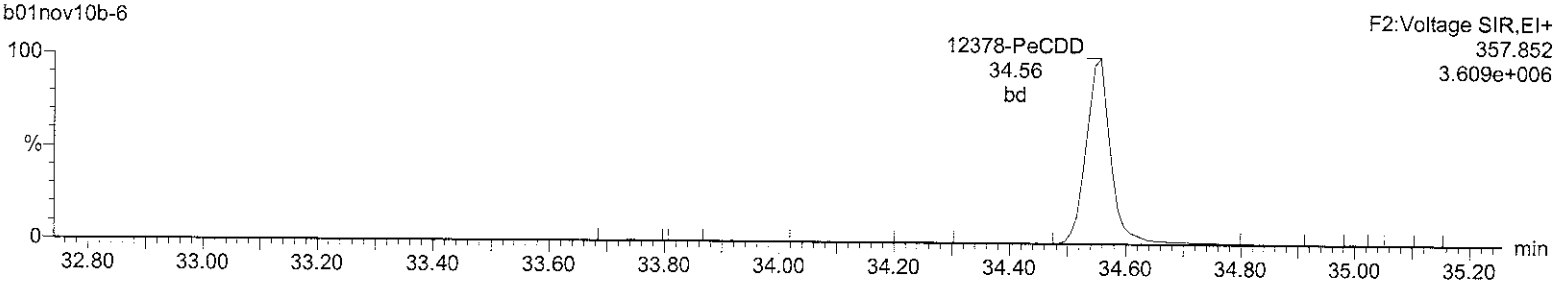
Last Altered: Tuesday, November 02, 2010 08:16:46 Eastern Standard Time
Printed: Tuesday, November 02, 2010 08:17:27 Eastern Standard Time

Name: b01nov10b-6, Date: 01-Nov-2010, Time: 21:41:31, ID: CS3 UD090323-04, Description: , Job: b01nov10b, Task: HRP763_1, User: MJC

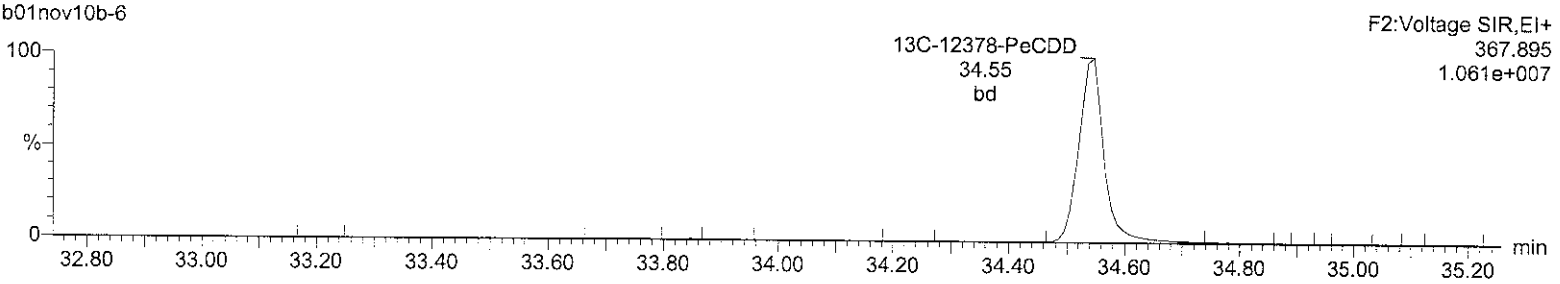
Total-pentadioxins
b01nov10b-6



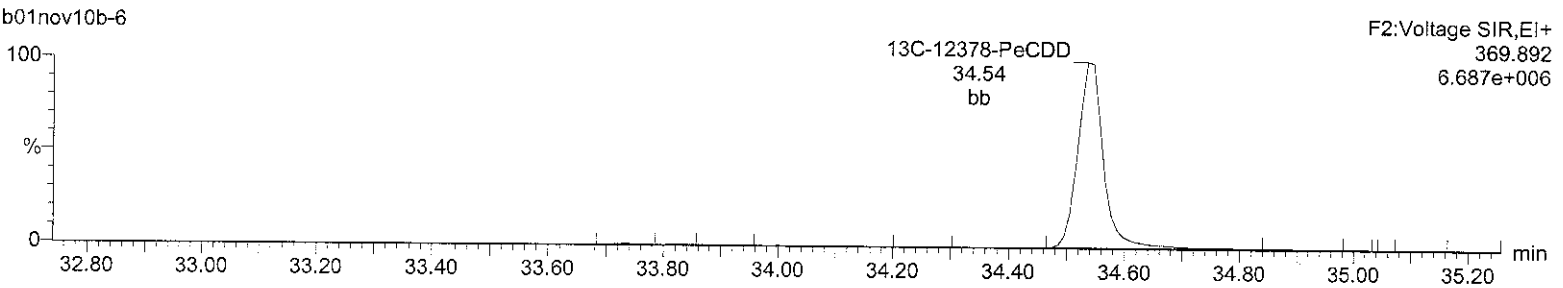
Total-pentadioxins
b01nov10b-6



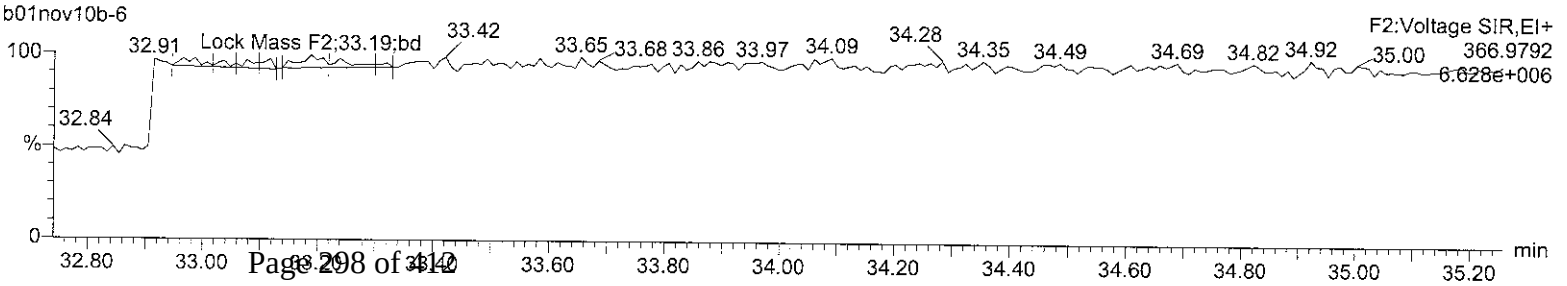
13C-12378-PeCDD
b01nov10b-6



13C-12378-PeCDD
b01nov10b-6



Lock Mass F2
b01nov10b-6



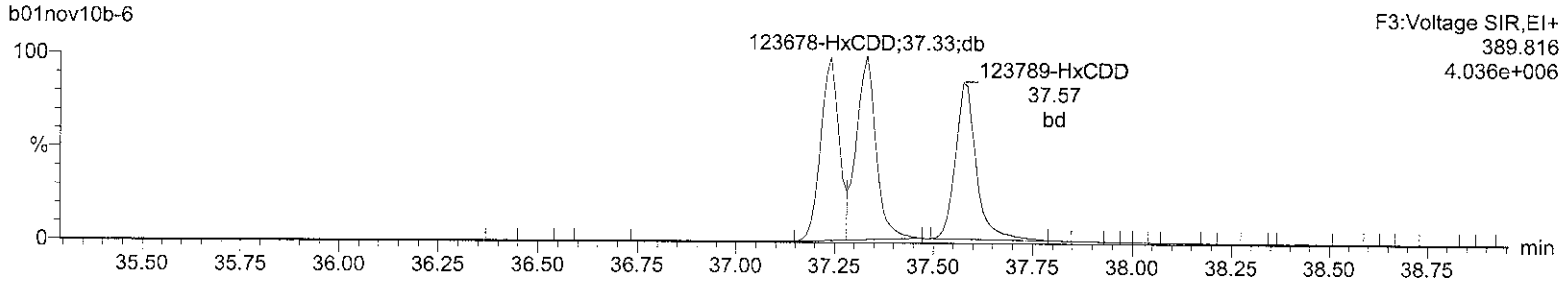
Quantify Sample Report **MassLynx 4.1**
Method 8290 ICAL Report

Dataset: C:\MassLynx\Default.pro\ICAL Results\8290-b01nov10b.qld

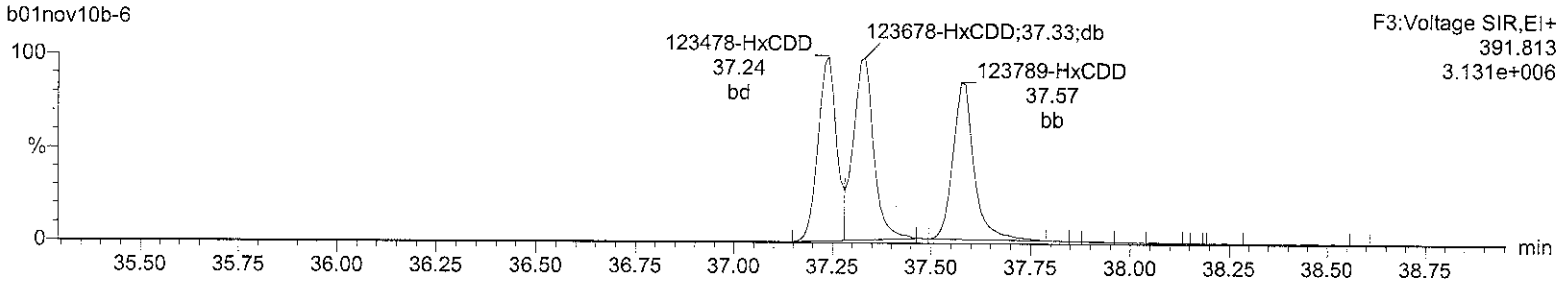
Last Altered: Tuesday, November 02, 2010 08:16:46 Eastern Standard Time
Printed: Tuesday, November 02, 2010 08:17:27 Eastern Standard Time

Name: b01nov10b-6, Date: 01-Nov-2010, Time: 21:41:31, ID: CS3 UD090323-04, Description: , Job: b01nov10b, Task: HRP763_1, User: MJC

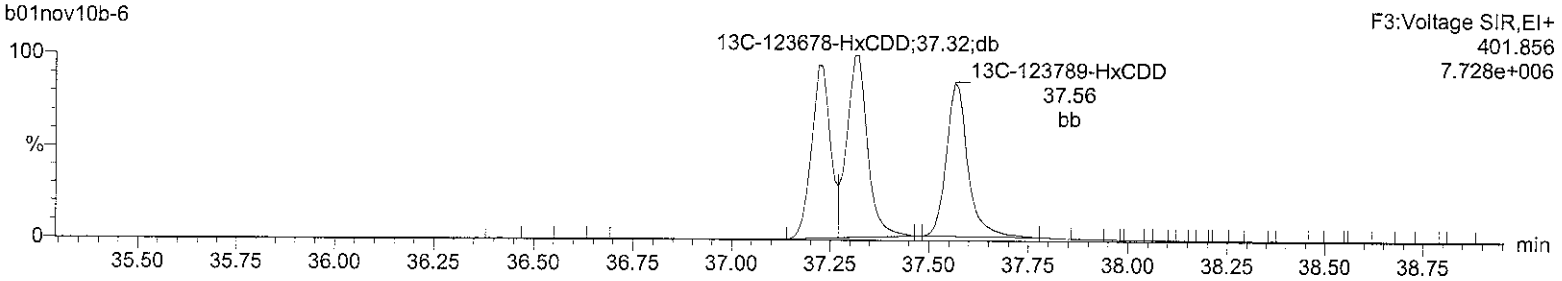
Total-hexadioxins



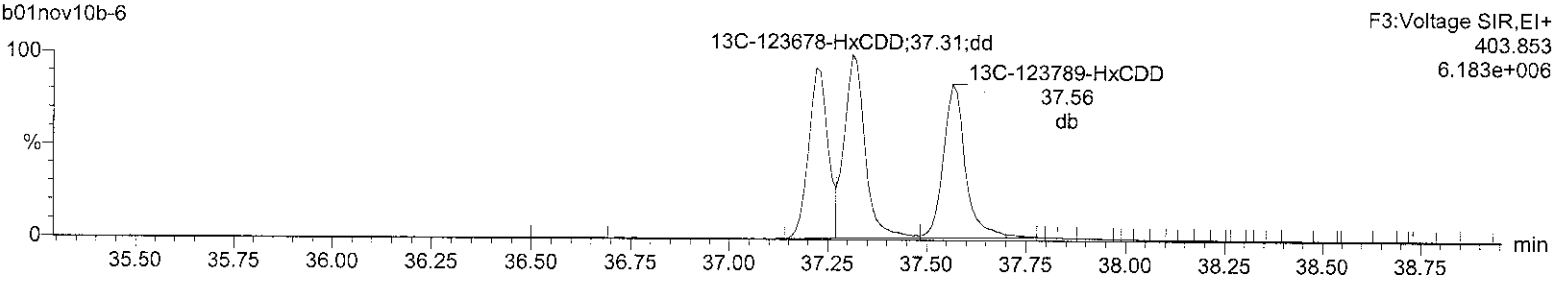
Total-hexadioxins



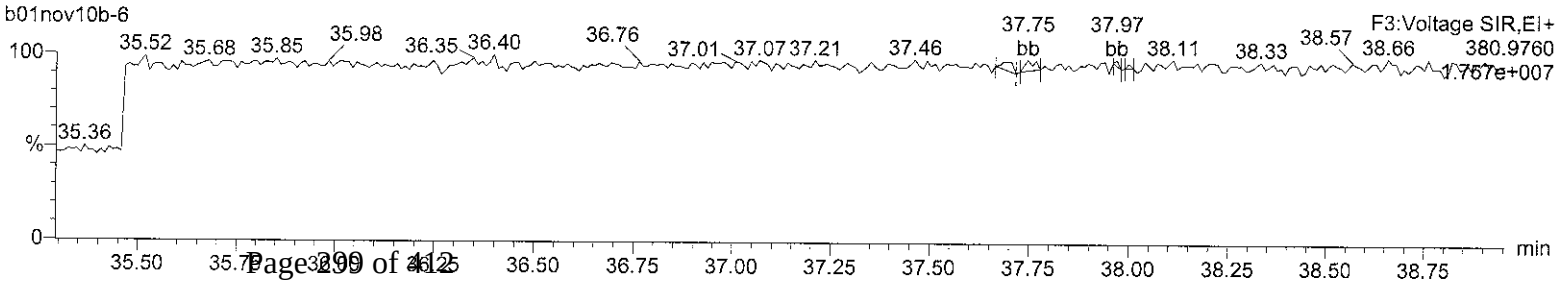
13C-123678-HxCDD



13C-123678-HxCDD



Lock Mass F3



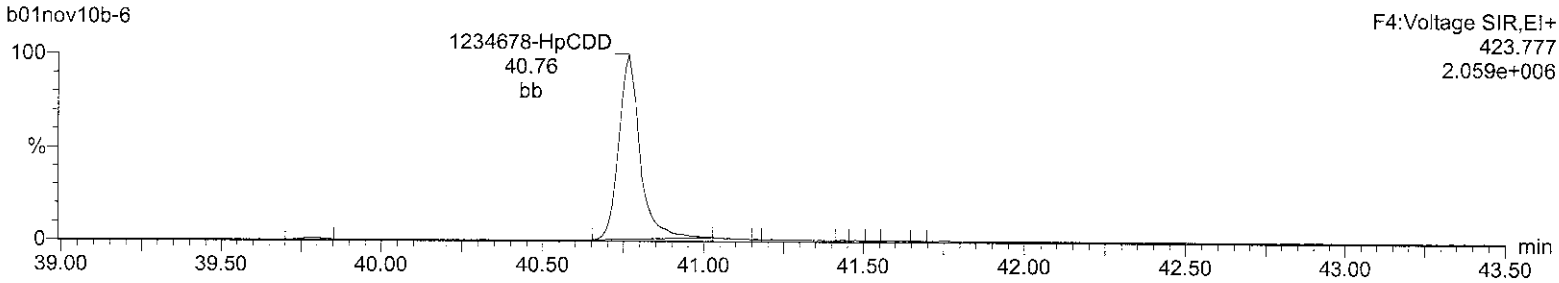
Quantify Sample Report **MassLynx 4.1**
Method 8290 ICAL Report

Dataset: C:\MassLynx\Default.pro\ICAL Results\8290-b01nov10b.qld

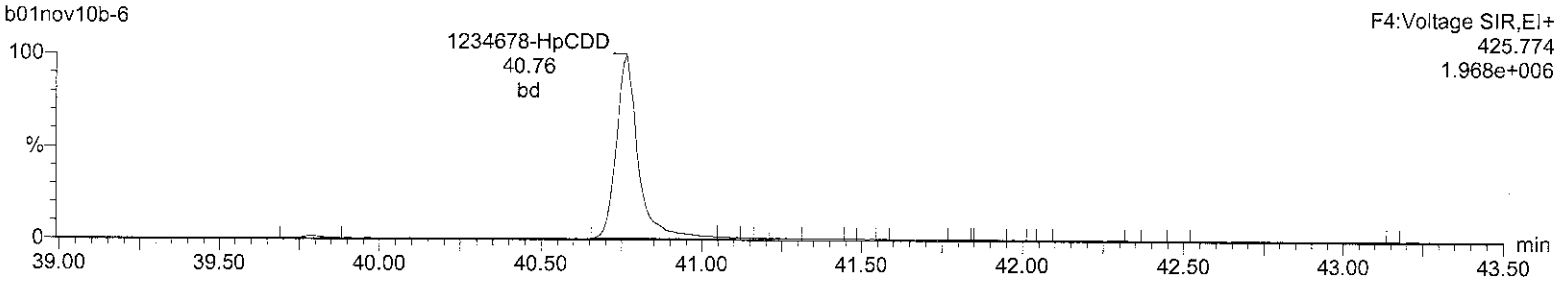
Last Altered: Tuesday, November 02, 2010 08:16:46 Eastern Standard Time
Printed: Tuesday, November 02, 2010 08:17:27 Eastern Standard Time

Name: b01nov10b-6, Date: 01-Nov-2010, Time: 21:41:31, ID: CS3 UD090323-04, Description: , Job: b01nov10b, Task: HRP763_1, User: MJC

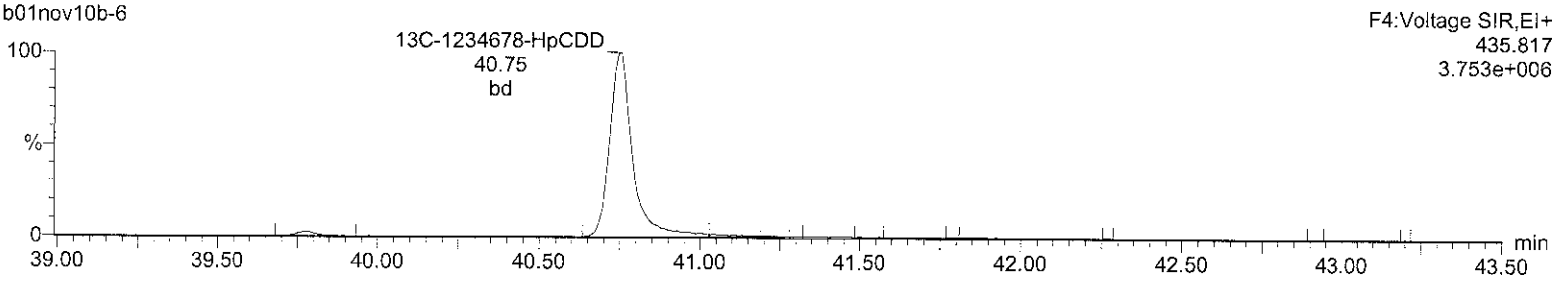
Total-heptadioxins



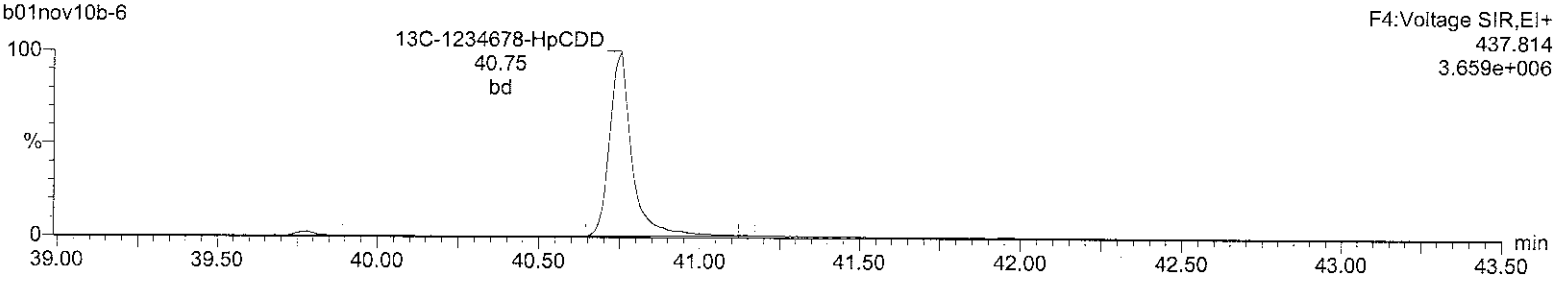
Total-heptadioxins



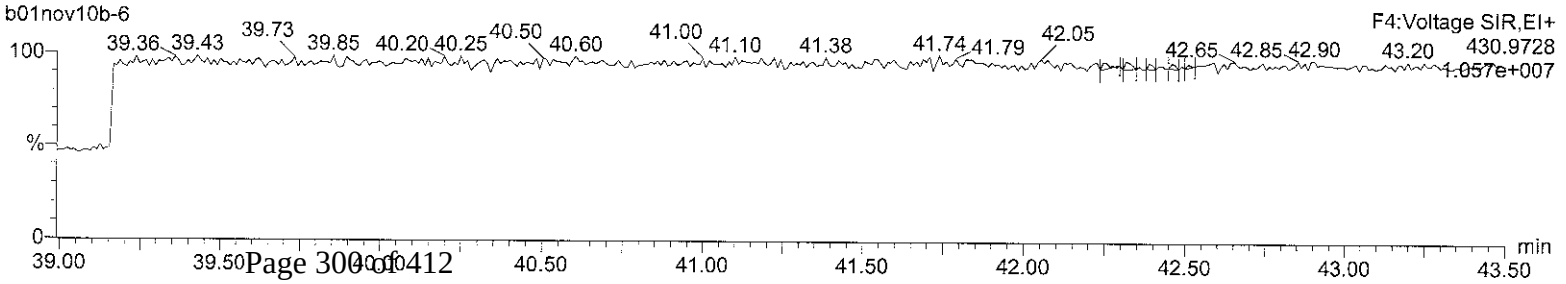
13C-1234678-HpCDD



13C-1234678-HpCDD



Lock Mass F4



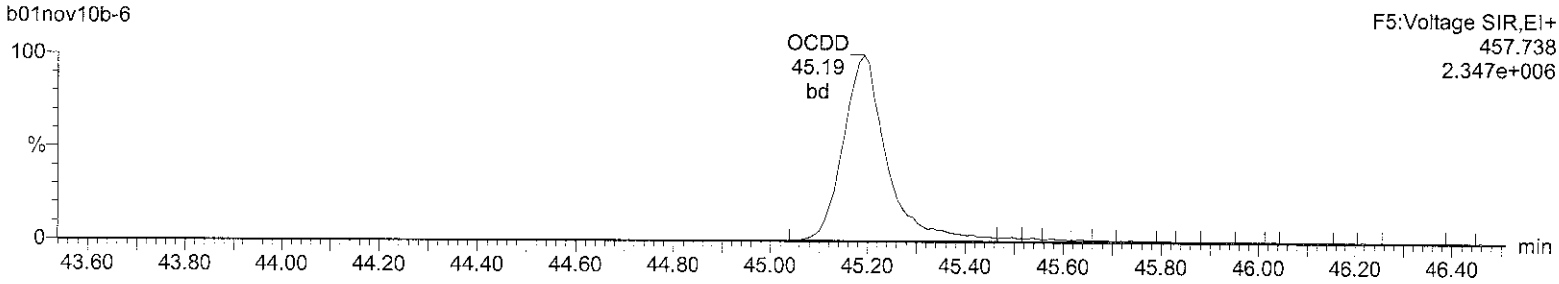
Quantify Sample Report **MassLynx 4.1**
Method 8290 ICAL Report

Dataset: C:\MassLynx\Default.pro\ICAL Results\8290-b01nov10b.qld

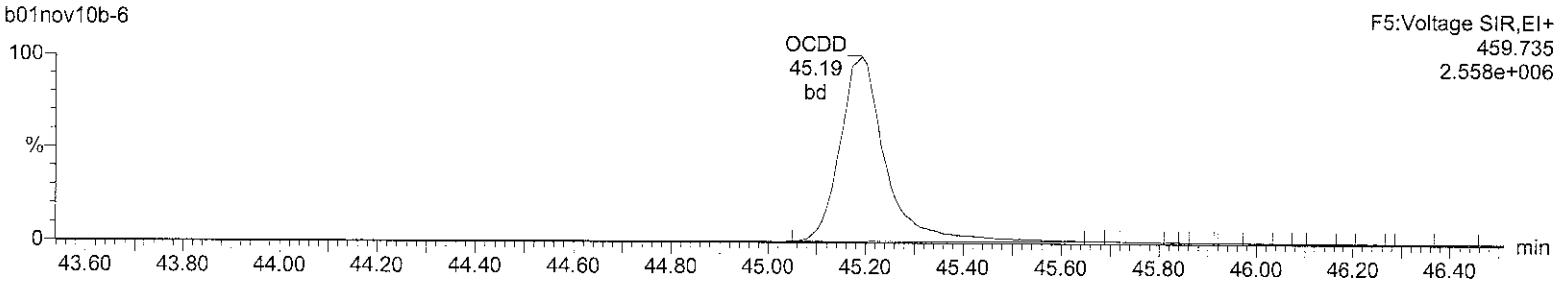
Last Altered: Tuesday, November 02, 2010 08:16:46 Eastern Standard Time
Printed: Tuesday, November 02, 2010 08:17:27 Eastern Standard Time

Name: b01nov10b-6, Date: 01-Nov-2010, Time: 21:41:31, ID: CS3 UD090323-04, Description: , Job: b01nov10b, Task: HRP763_1, User: MJC

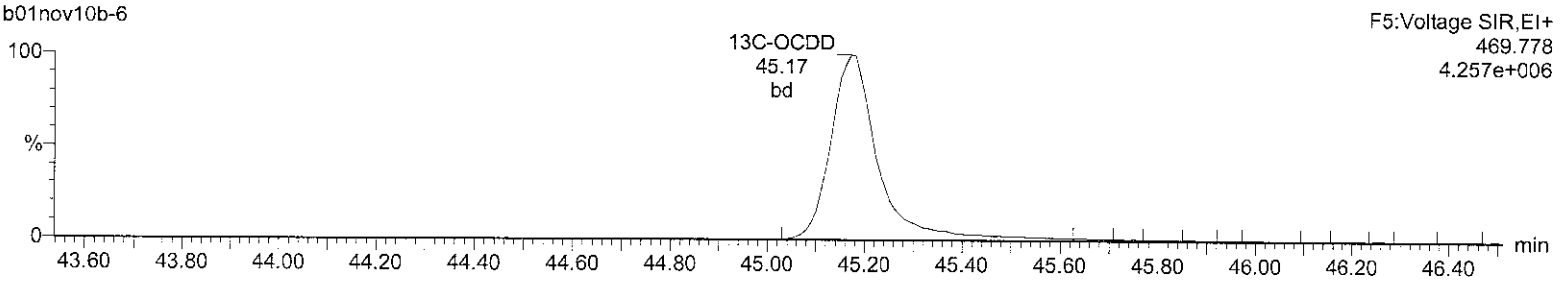
OCDD



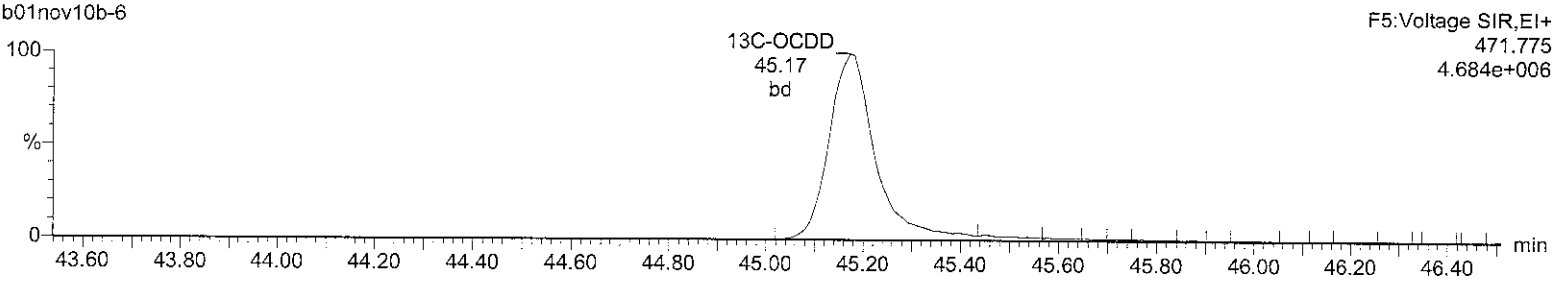
OCDD



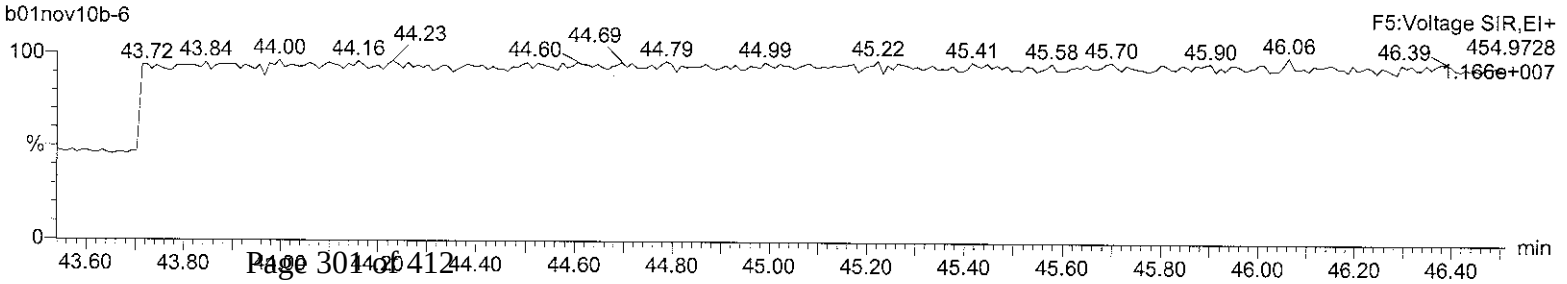
13C-OCDD



13C-OCDD



Lock Mass F5



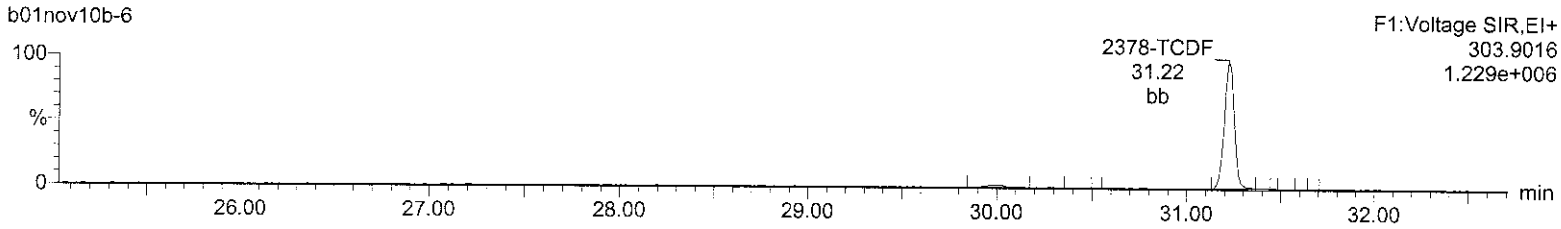
Quantify Sample Report **MassLynx 4.1**
Method 8290 ICAL Report

Dataset: C:\MassLynx\Default.pro\ICAL Results\8290-b01nov10b.qld

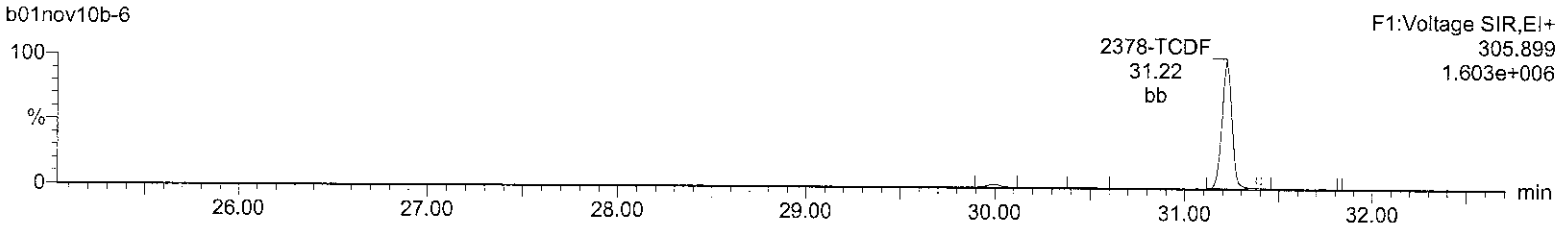
Last Altered: Tuesday, November 02, 2010 08:16:46 Eastern Standard Time
Printed: Tuesday, November 02, 2010 08:17:27 Eastern Standard Time

Name: b01nov10b-6, Date: 01-Nov-2010, Time: 21:41:31, ID: CS3 UD090323-04, Description: , Job: b01nov10b, Task: HRP763_1, User: MJC

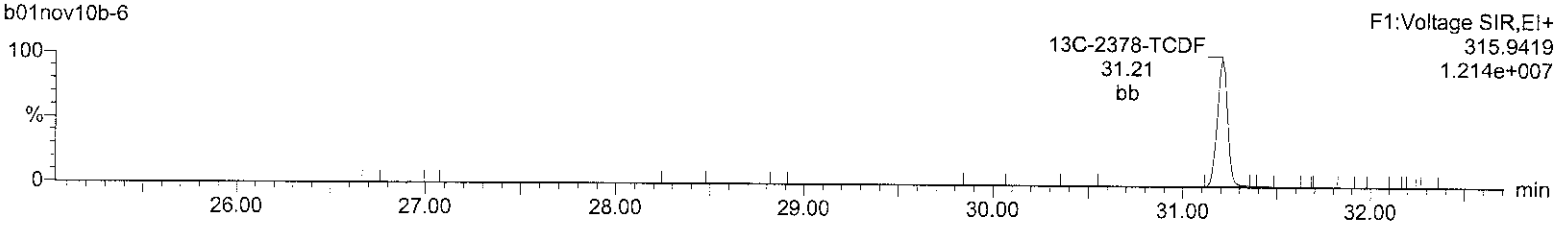
Total-tetrafurans



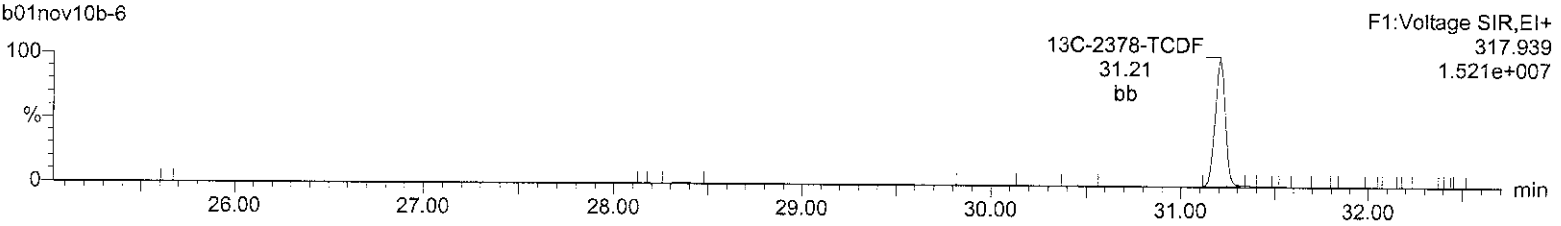
Total-tetrafurans



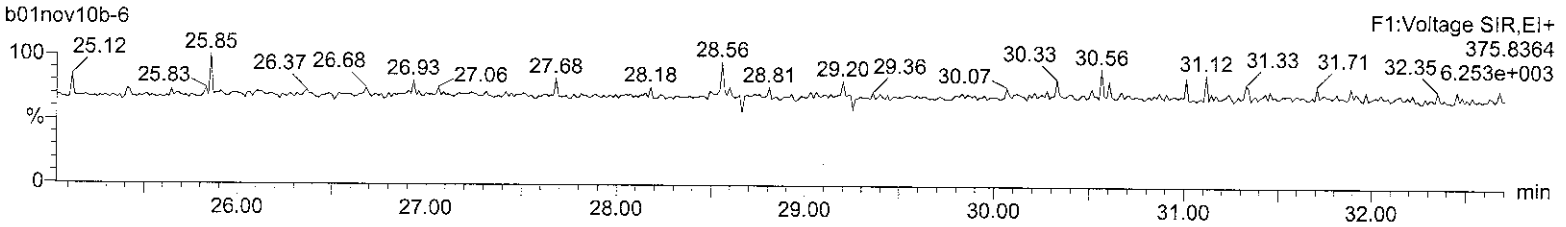
13C-2378-TCDF



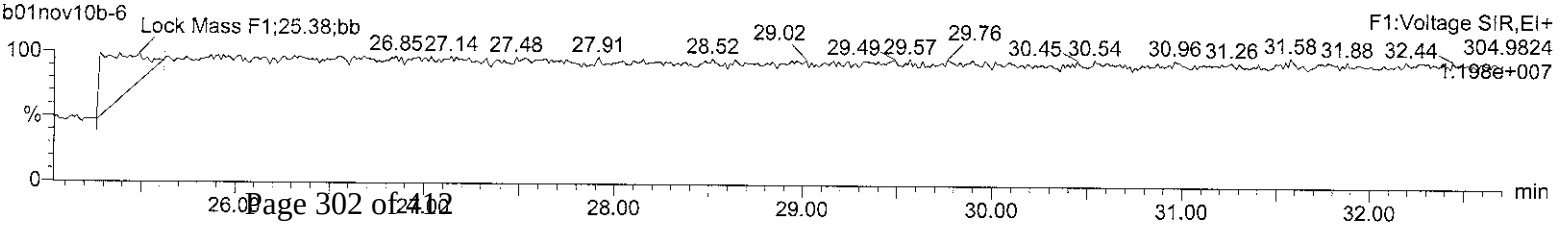
13C-2378-TCDF



HxDPE



Lock Mass F1



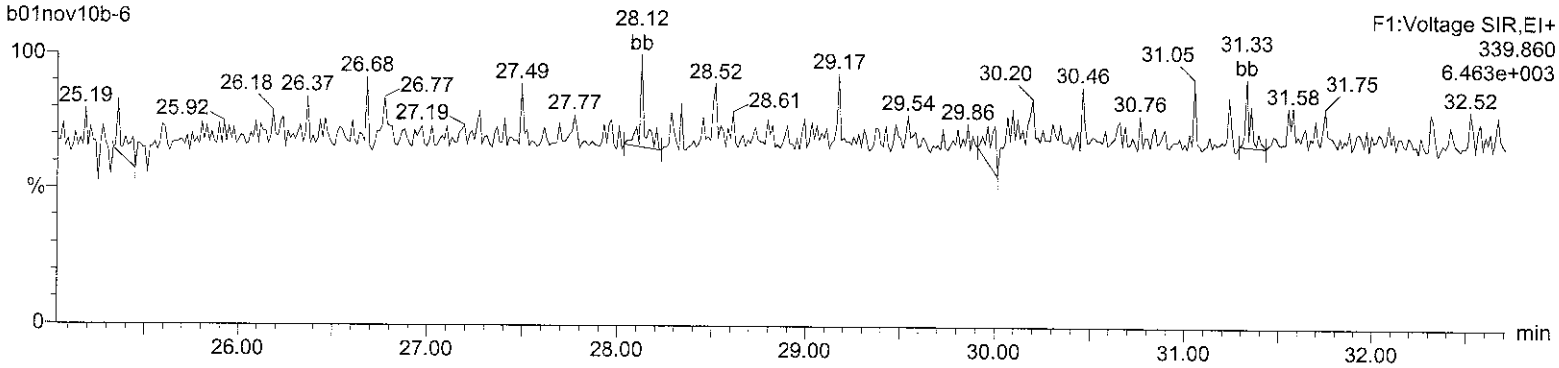
Quantify Sample Report **MassLynx 4.1**
Method 8290 ICAL Report

Dataset: C:\MassLynx\Default.pro\ICAL Results\8290-b01nov10b.qld

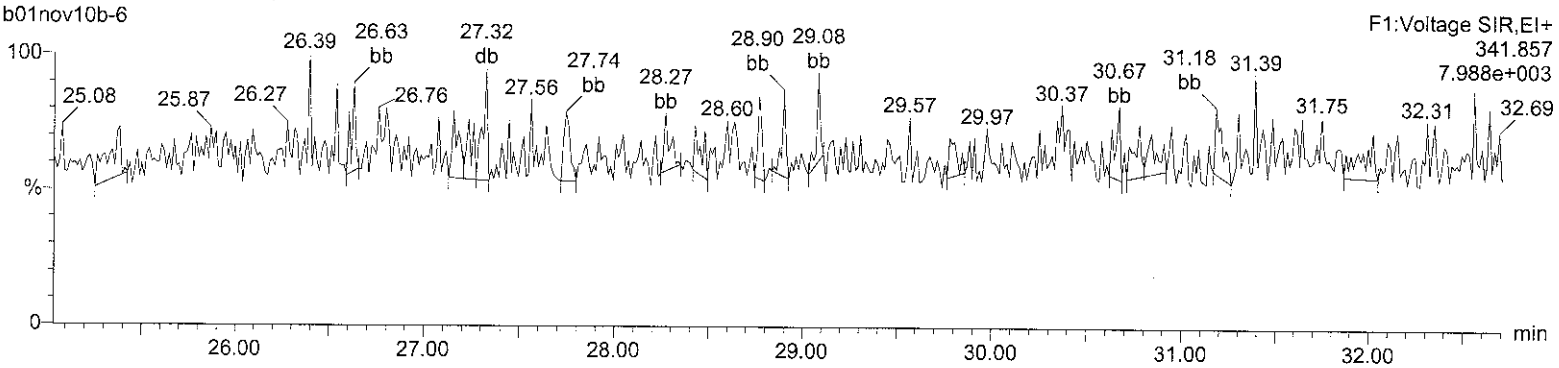
Last Altered: Tuesday, November 02, 2010 08:16:46 Eastern Standard Time
Printed: Tuesday, November 02, 2010 08:17:27 Eastern Standard Time

Name: b01nov10b-6, Date: 01-Nov-2010, Time: 21:41:31, ID: CS3 UD090323-04, Description: , Job: b01nov10b, Task: HRP763_1, User: MJC

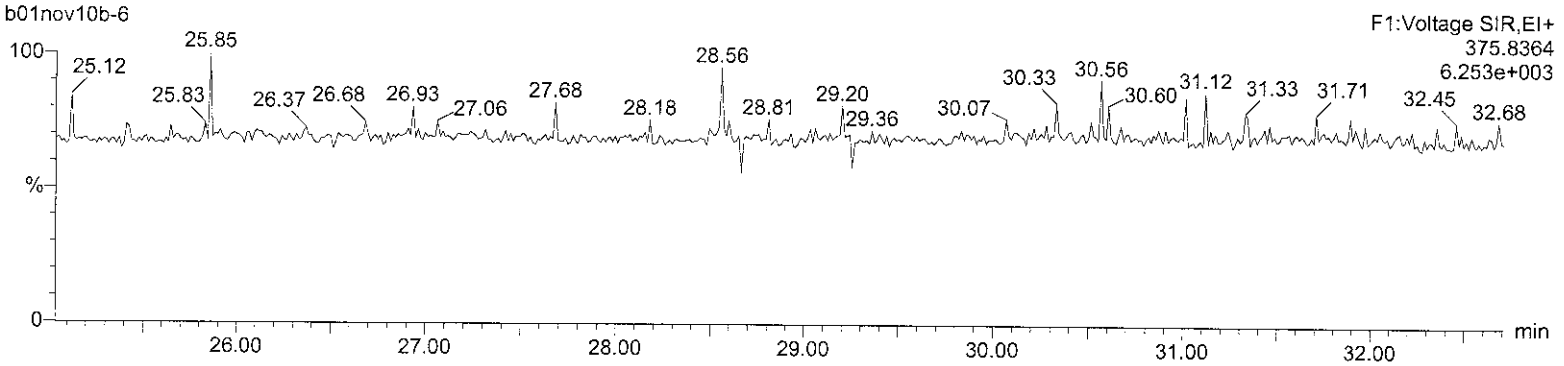
Total-pentafurans (F1)



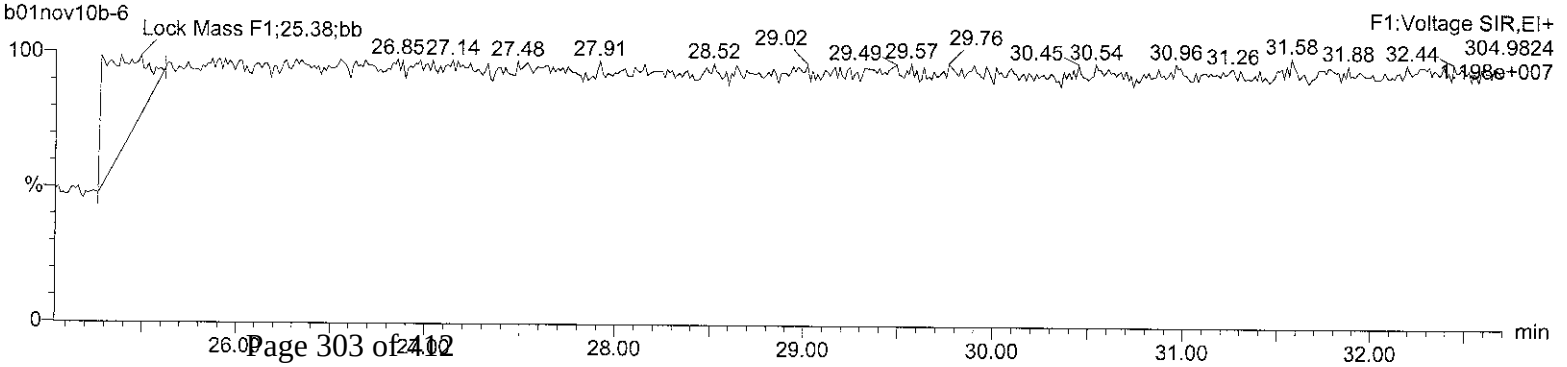
Total-pentafurans (F1)



HxDPE



Lock Mass F1



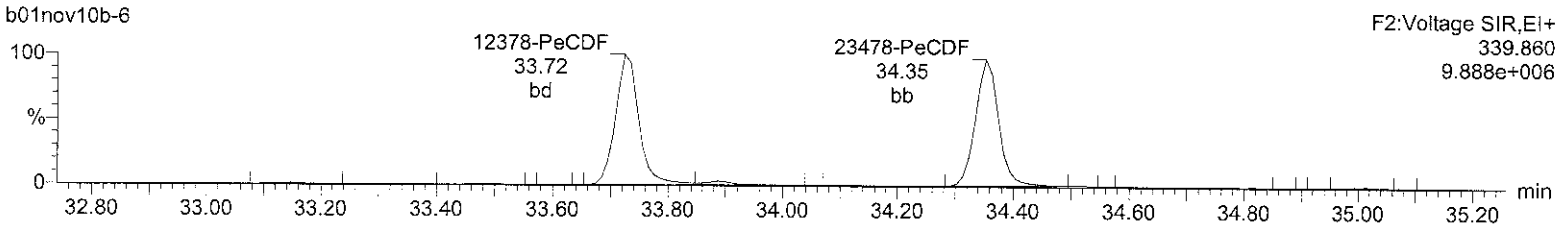
Quantify Sample Report **MassLynx 4.1**
Method 8290 ICAL Report

Dataset: C:\MassLynx\Default.pro\ICAL Results\8290-b01nov10b.qld

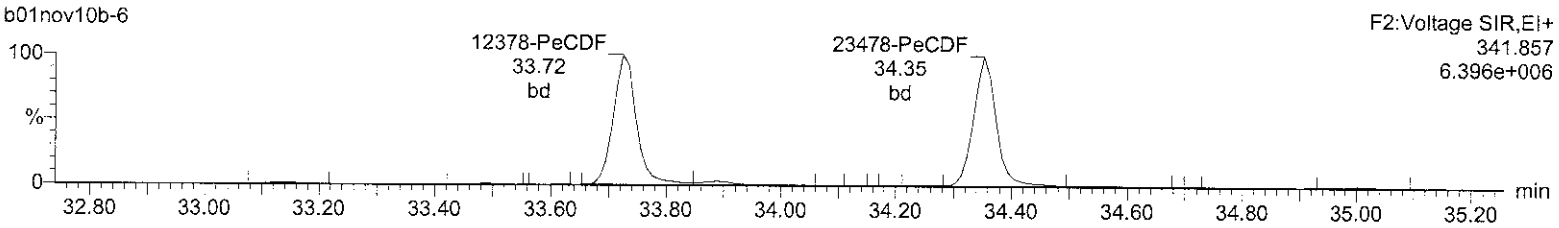
Last Altered: Tuesday, November 02, 2010 08:16:46 Eastern Standard Time
Printed: Tuesday, November 02, 2010 08:17:27 Eastern Standard Time

Name: b01nov10b-6, Date: 01-Nov-2010, Time: 21:41:31, ID: CS3 UD090323-04, Description: , Job: b01nov10b, Task: HRP763_1, User: MJC

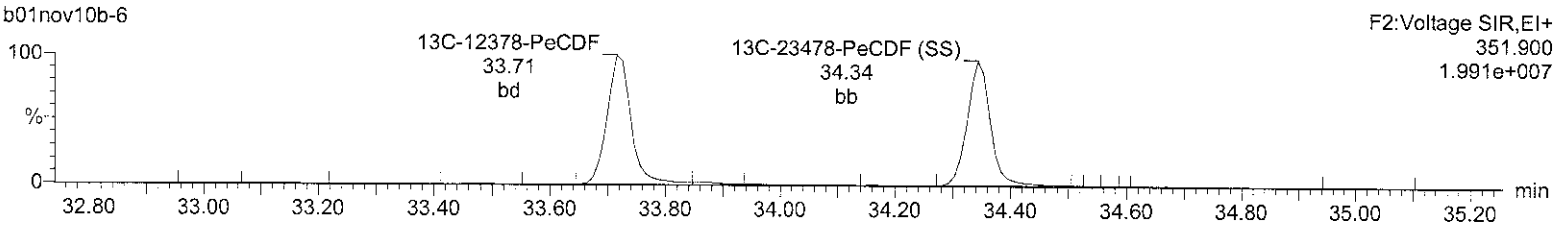
Total-pentafurans



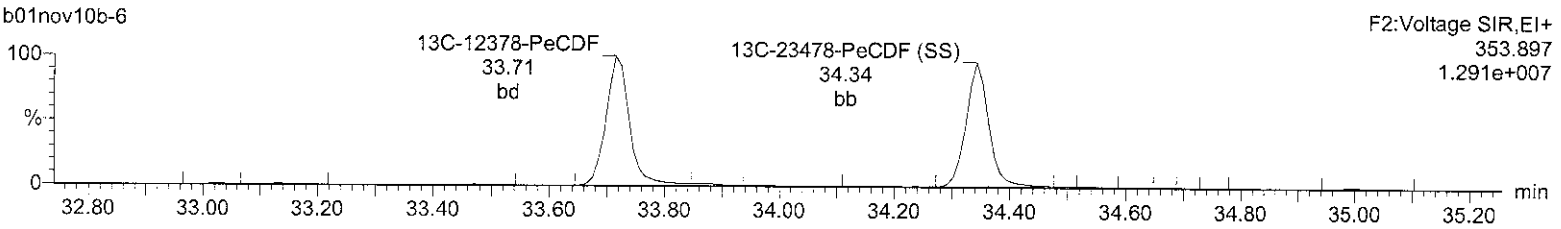
Total-pentafurans



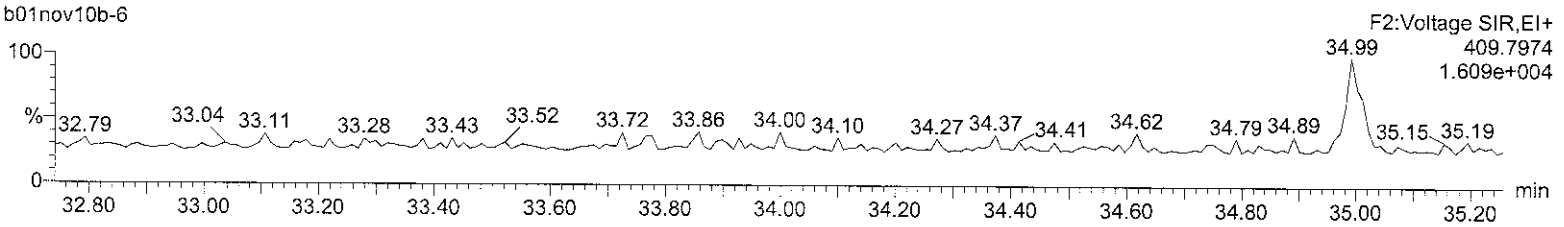
13C-12378-PeCDF



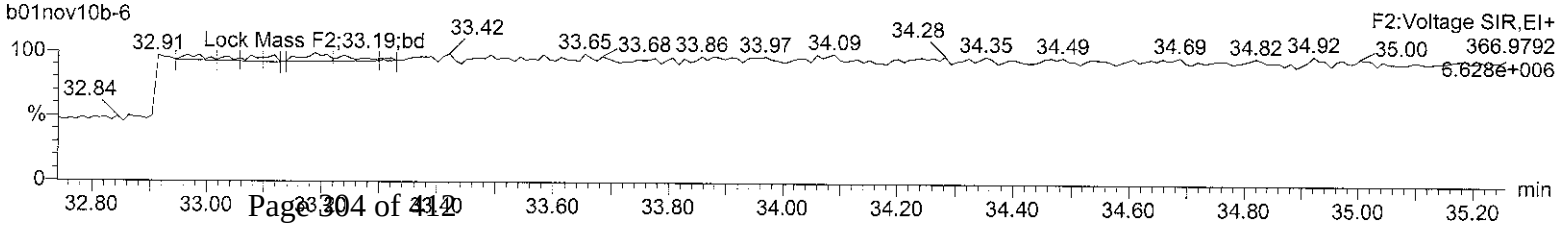
13C-12378-PeCDF



HpDPE



Lock Mass F2



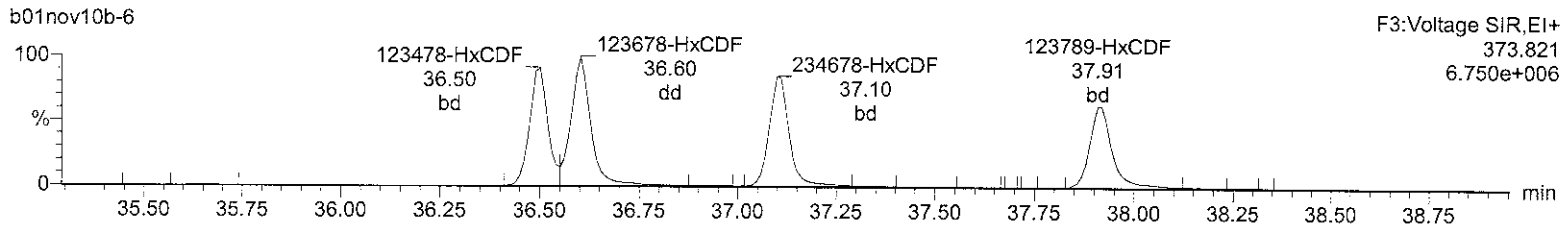
Quantify Sample Report **MassLynx 4.1**
Method 8290 ICAL Report

Dataset: C:\MassLynx\Default.pro\ICAL Results\8290-b01nov10b.qld

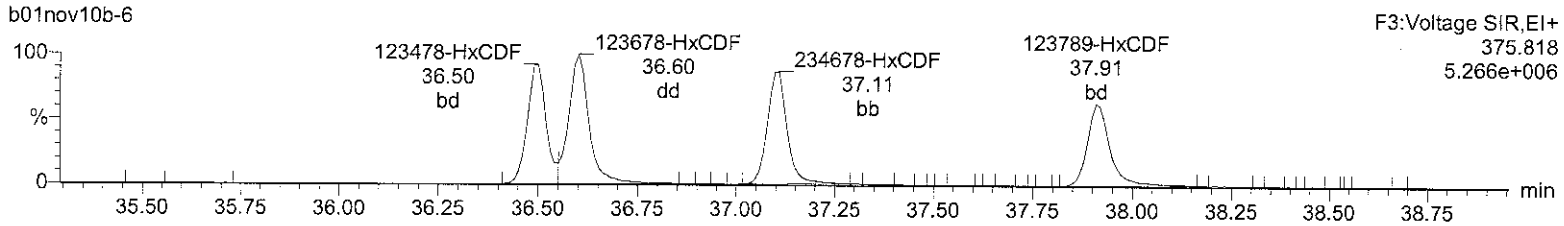
Last Altered: Tuesday, November 02, 2010 08:16:46 Eastern Standard Time
Printed: Tuesday, November 02, 2010 08:17:27 Eastern Standard Time

Name: b01nov10b-6, Date: 01-Nov-2010, Time: 21:41:31, ID: CS3 UD090323-04, Description: , Job: b01nov10b, Task: HRP763_1, User: MJC

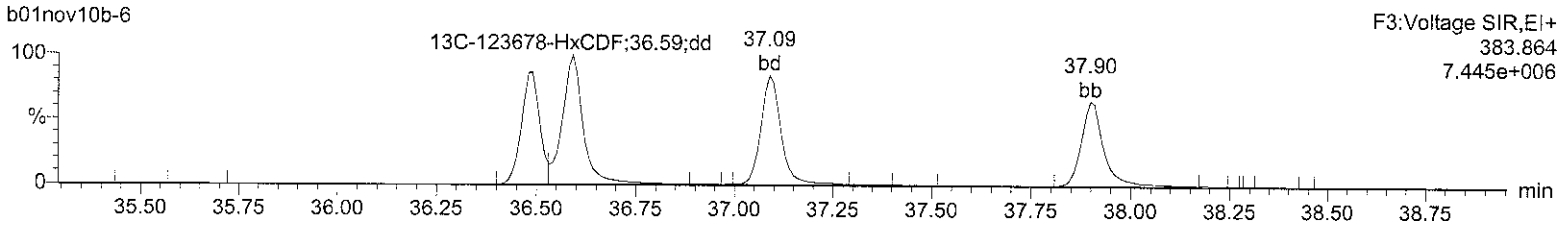
Total-hexafurans



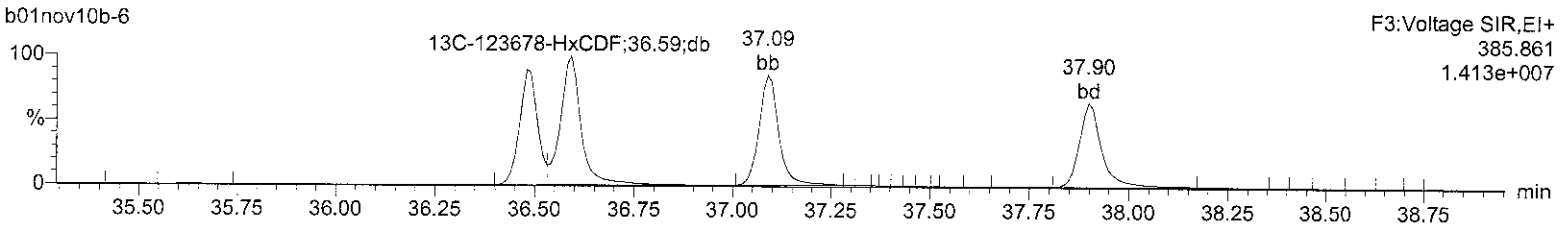
Total-hexafurans



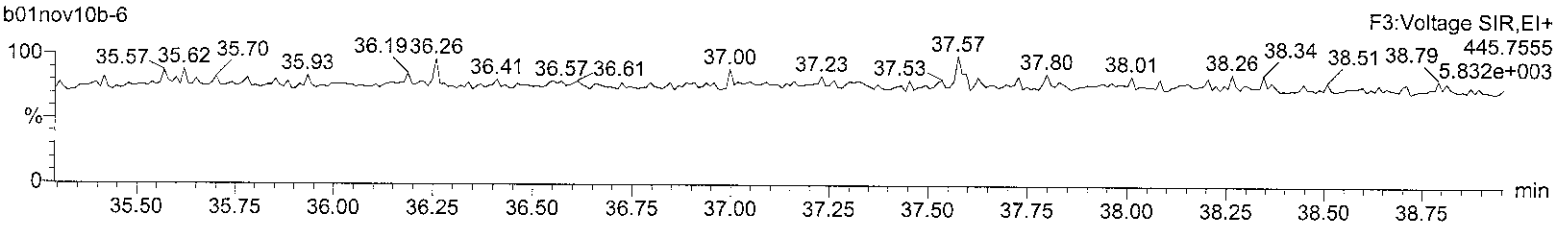
13C-123678-HxCDF



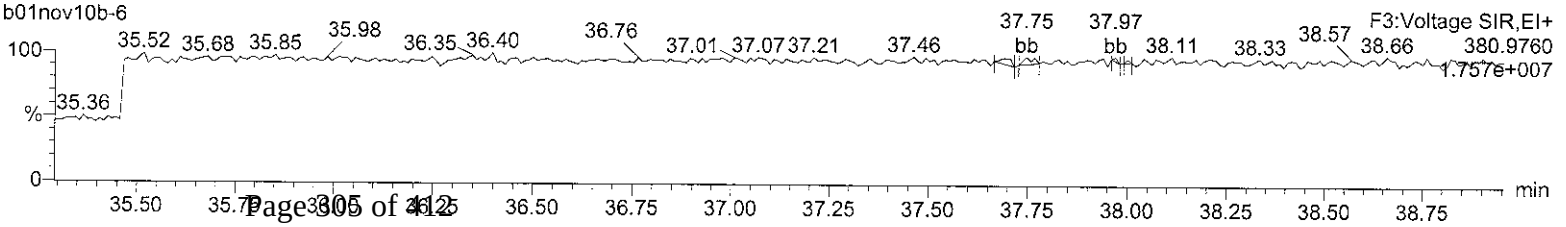
13C-123678-HxCDF



OcDPE



Lock Mass F3



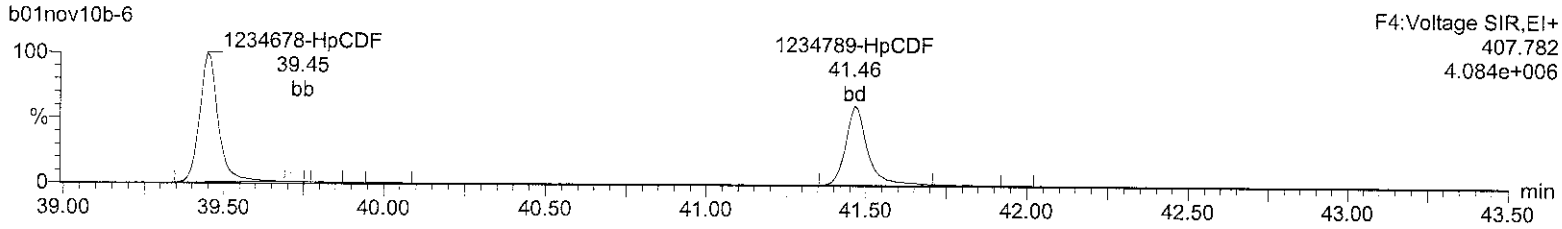
Quantify Sample Report **MassLynx 4.1**
Method 8290 ICAL Report

Dataset: C:\MassLynx\Default.pro\ICAL Results\8290-b01nov10b.qld

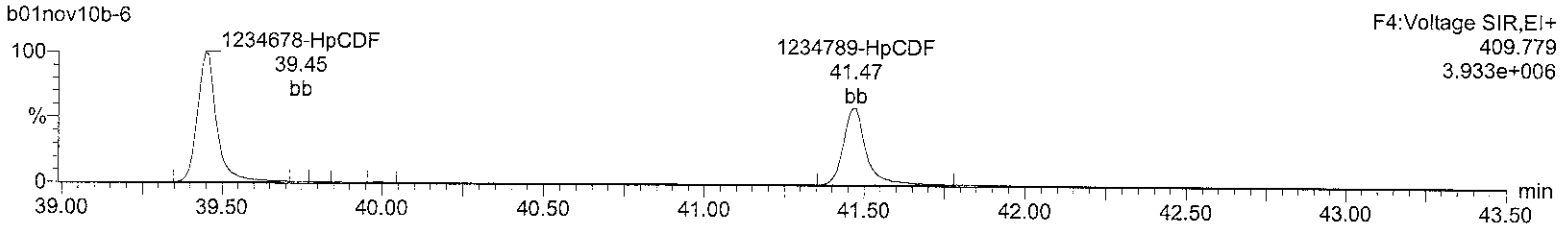
Last Altered: Tuesday, November 02, 2010 08:16:46 Eastern Standard Time
Printed: Tuesday, November 02, 2010 08:17:27 Eastern Standard Time

Name: b01nov10b-6, Date: 01-Nov-2010, Time: 21:41:31, ID: CS3 UD090323-04, Description: , Job: b01nov10b, Task: HRP763_1, User: MJC

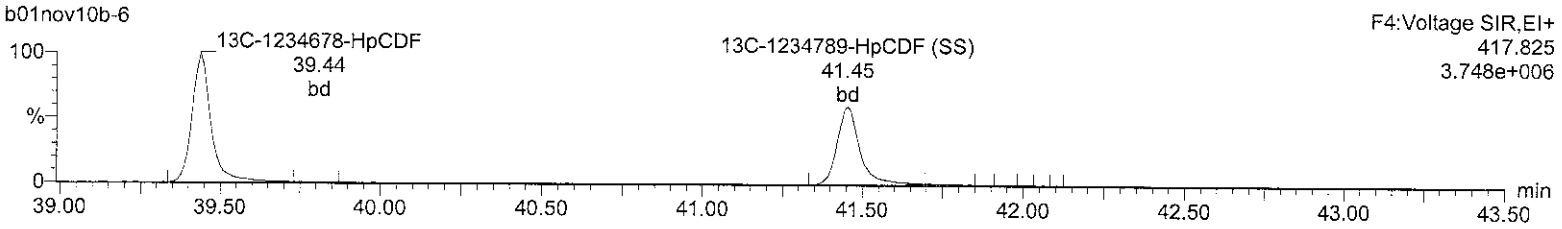
Total-heptafurans



Total-heptafurans



13C-1234678-HpCDF



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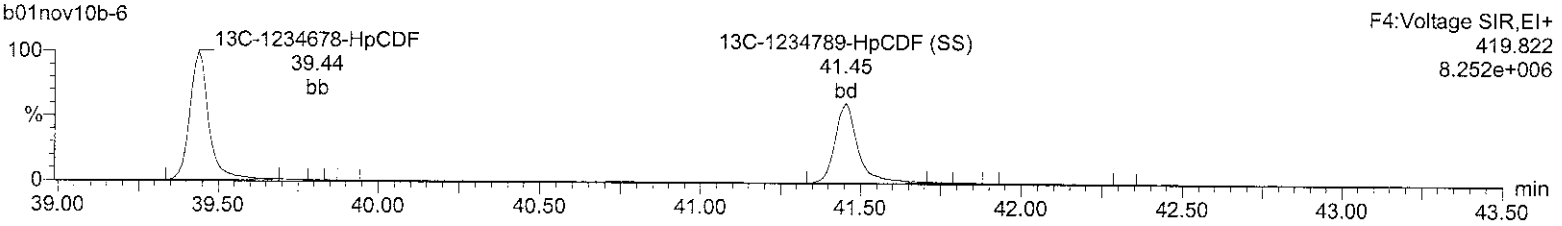
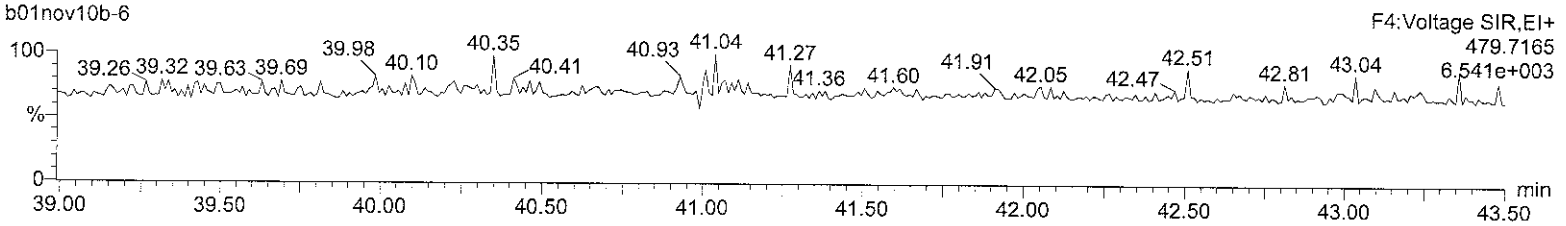
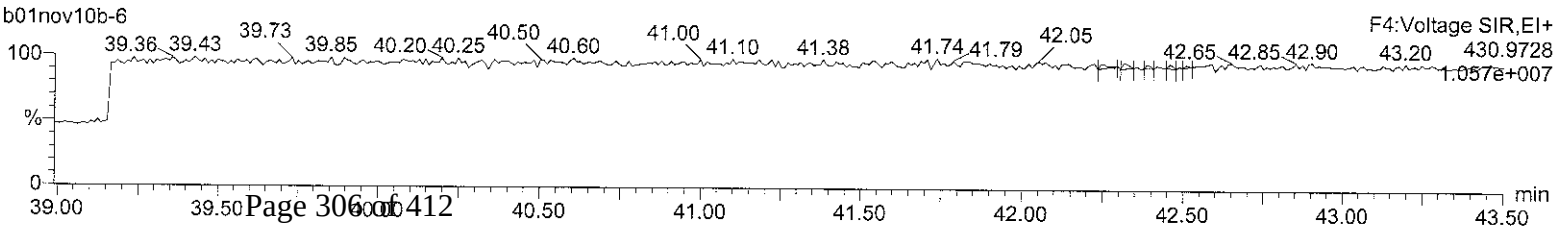


NoDPE



Lock Mass F4



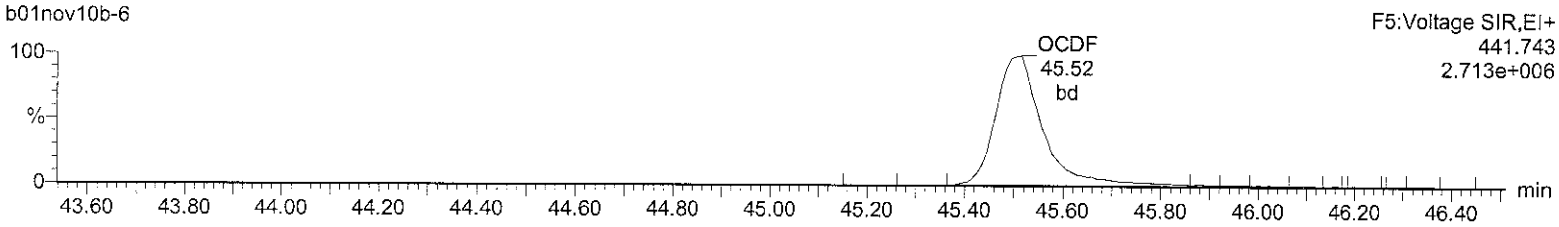
Quantify Sample Report **MassLynx 4.1**
Method 8290 ICAL Report

Dataset: C:\MassLynx\Default.pro\ICAL Results\8290-b01nov10b.qld

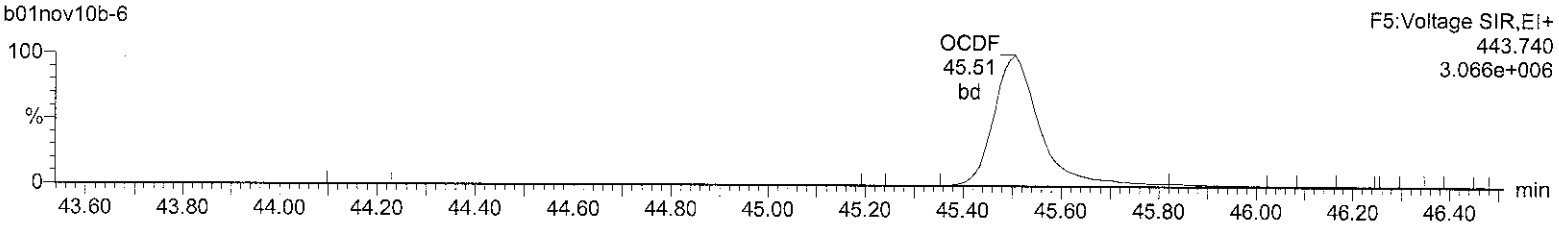
Last Altered: Tuesday, November 02, 2010 08:16:46 Eastern Standard Time
Printed: Tuesday, November 02, 2010 08:17:27 Eastern Standard Time

Name: b01nov10b-6, Date: 01-Nov-2010, Time: 21:41:31, ID: CS3 UD090323-04, Description: , Job: b01nov10b, Task: HRP763_1, User: MJC

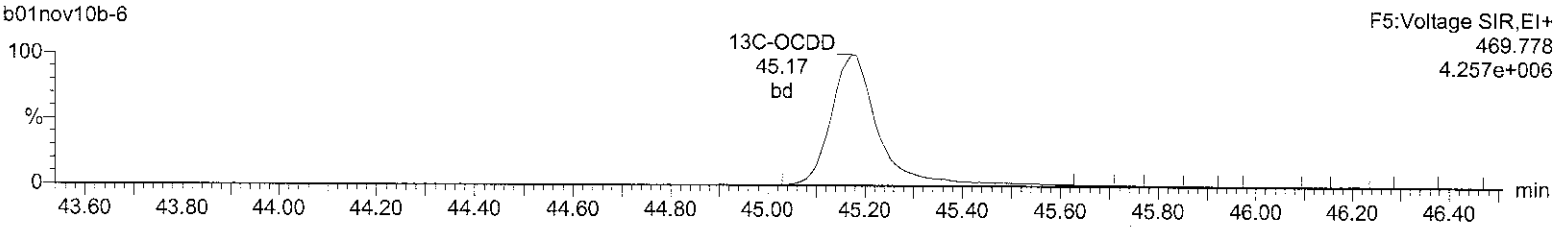
OCDF



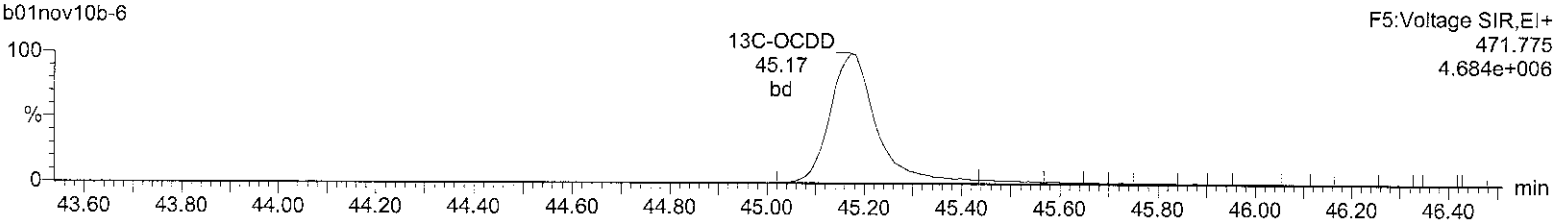
OCDF



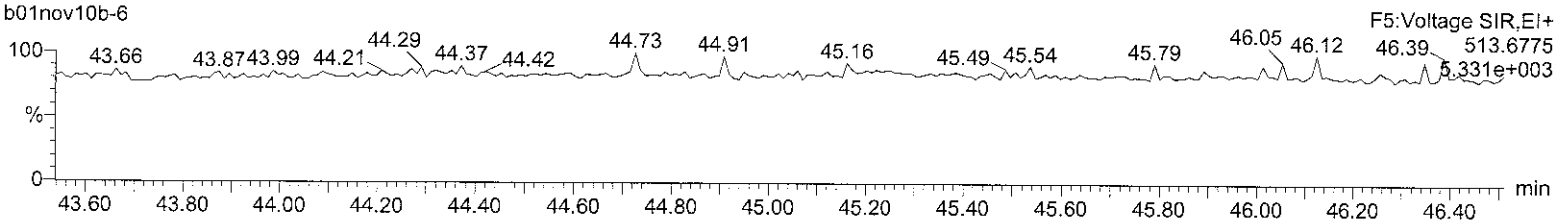
13C-OCDD



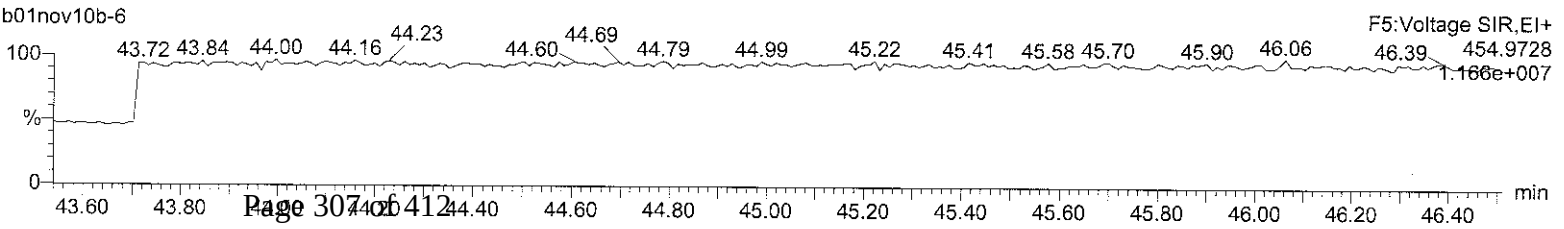
13C-OCDD



DeDPE



Lock Mass F5



Quantify Sample Summary Report **MassLynx 4.1**
Method 8290 ICAL Report

Dataset: C:\MassLynx\Default.pro\ICAL Results\8290-b01nov10b.qld

Last Altered: Tuesday, November 02, 2010 08:19:01 Eastern Standard Time
Printed: Tuesday, November 02, 2010 08:23:00 Eastern Standard Time

Name: b01nov10b-7, Date: 01-Nov-2010, Time: 22:29:56, ID: CS4 UD101022-05, Description: , Job: b01nov10b, Task: HRP763_1, User: MJC

	Name	Ion1Area	Ion2Area	Response	RT	RRT	RA	Fail?	pg/uL	RRF	EDL	Height1	Noise1	S/N1	Height2	Noise2	S/N2	M
2	2378-TCDD	1.77e5	2.29e5	4.05e5	31.75	1.00	0.77	NO	43.207	1.094	0.0364	3.45e6	1091	3165.2	4.47e6	1122	3984.9	bb
3	12378-PeCDD	1.05e6	6.84e5	1.74e6	34.55	1.00	1.54	NO	207.682	1.072	0.162	2.26e7	5757	3926.1	1.48e7	3509	4208.2	bb
4	123478-HxCDD	8.32e5	6.67e5	1.50e6	37.23	1.00	1.25	NO	203.468	0.912	0.295	1.52e7	7142	2134.2	1.23e7	4466	2751.8	bd
5	123678-HxCDD	8.95e5	7.07e5	1.60e6	37.32	1.00	1.27	NO	201.363	0.974	0.273	1.58e7	7142	2206.9	1.23e7	4466	2756.4	db
6	123789-HxCDD	7.99e5	6.40e5	1.44e6	37.57	1.01	1.25	NO	202.434	0.876	0.306	1.33e7	7142	1855.4	1.04e7	4466	2323.7	bb
7	1234678-HpCDD	6.18e5	6.07e5	1.22e6	40.76	1.00	1.02	NO	210.042	1.055	0.371	7.85e6	4485	1750.7	7.63e6	4341	1757.2	bb
8	OCDD	9.84e5	1.12e6	2.10e6	45.18	1.00	0.88	NO	431.741	1.075	0.788	9.64e6	5653	1705.9	1.10e7	6315	1748.7	bd
9	2378-TCDF	2.58e5	3.33e5	5.91e5	31.22	1.00	0.78	NO	38.921	0.957	0.0342	4.31e6	1104	3907.7	5.49e6	1737	3157.9	bb
10	12378-PeCDF	1.69e6	1.09e6	2.78e6	33.72	1.00	1.55	NO	203.695	0.951	0.132	3.77e7	5021	7509.9	2.40e7	8006	2999.5	bd
11	23478-PeCDF	1.68e6	1.08e6	2.76e6	34.35	1.02	1.55	NO	206.228	0.943	0.135	3.66e7	5021	7282.1	2.31e7	8006	2888.5	bb
12	123478-HxCDF	1.21e6	9.68e5	2.17e6	36.49	1.00	1.25	NO	205.350	0.933	0.333	2.41e7	11062	2180.7	1.90e7	8343	2281.0	bd
13	123678-HxCDF	1.43e6	1.16e6	2.59e6	36.60	1.00	1.24	NO	210.308	1.112	0.287	2.51e7	11062	2264.8	2.02e7	8343	2418.0	db
14	234678-HxCDF	1.30e6	1.05e6	2.35e6	37.10	1.01	1.24	NO	210.799	1.007	0.317	2.28e7	11062	2064.8	1.85e7	8343	2219.6	bb
15	123789-HxCDF	1.06e6	8.94e5	1.95e6	37.91	1.04	1.18	NO	211.491	0.837	0.383	1.69e7	11062	1524.1	1.35e7	8343	1615.5	bb
16	1234678-HpCDF	1.04e6	1.04e6	2.08e6	39.45	1.00	1.00	NO	208.033	1.328	0.301	1.54e7	7317	2101.8	1.52e7	7470	2030.1	bb
17	1234789-HpCDF	7.90e5	7.48e5	1.54e6	41.46	1.05	1.06	NO	210.871	0.981	0.412	9.67e6	7317	1321.0	9.30e6	7470	1245.3	bd
18	OCDF	1.29e6	1.43e6	2.73e6	45.51	1.01	0.90	NO	452.772	1.395	0.477	1.22e7	6300	1942.2	1.36e7	2661	5114.0	bd
19	13C-2378-TCDD	4.10e5	5.16e5	9.26e5	31.73	1.01	0.79	NO	98.572	1.104	0.0694	7.97e6	2456	3246.1	1.01e7	1427	7061.4	bb
20	13C-12378-PeCDD	4.96e5	3.14e5	8.10e5	34.54	1.10	1.58	NO	101.575	0.965	0.129	1.02e7	2630	3872.0	6.73e6	3477	1935.1	bb
21	13C-123678-HxCDD	4.63e5	3.59e5	8.22e5	37.31	0.99	1.29	NO	104.897	1.166	0.179	7.42e6	4418	1678.7	5.80e6	2978	1948.5	db
22	13C-1234678-HpCDD	2.95e5	2.85e5	5.80e5	40.74	1.08	1.04	NO	102.857	0.823	0.222	3.61e6	3457	1045.4	3.42e6	3152	1085.5	bd
23	13C-OCDD	4.61e5	5.15e5	9.77e5	45.16	1.20	0.89	NO	207.463	0.693	0.285	4.32e6	3199	1350.4	5.00e6	3868	1292.6	bd
24	13C-2378-TCDF	6.80e5	8.63e5	1.54e6	31.21	1.00	0.79	NO	100.947	1.838	0.0353	1.12e7	1451	7704.9	1.40e7	1761	7978.6	bb
25	13C-12378-PeCDF	8.92e5	5.71e5	1.46e6	33.71	1.08	1.56	NO	102.973	1.743	0.119	1.93e7	5842	3303.6	1.26e7	4261	2959.5	bd
26	13C-123678-HxCDF	4.07e5	7.58e5	1.17e6	36.58	0.97	0.54	NO	101.417	1.654	0.171	6.71e6	5108	1314.1	1.31e7	5250	2501.3	dd
27	13C-1234678-HpCDF	2.43e5	5.41e5	7.84e5	39.44	1.05	0.45	NO	102.996	1.113	0.221	3.59e6	3673	976.2	7.90e6	5221	1513.8	bd
28	13C-1234-TCDD	3.71e5	4.68e5	8.39e5	31.34	0.00	0.79	NO	100.000	1.000	0.0777	6.63e6	2456	2701.7	8.31e6	1427	5823.4	bb
29	13C-123789-HxCDD	3.93e5	3.11e5	7.05e5	37.56	0.00	1.26	NO	100.000	1.000	0.199	6.22e6	4418	1408.9	4.95e6	2978	1661.6	bb
30	37Cl-2378-TCDD (SS)	4.17e5		4.17e5	31.75	1.00			42.719	1.126	0.0229	8.18e6	1447	5654.5				bb
31	13C-23478-PeCDF (SS)	8.42e5	5.34e5	1.38e6	34.34	1.02	1.58	NO	100.795	0.941	0.103	1.81e7	5842	3103.8	1.15e7	4261	2697.4	bb
32	13C-123478-HxCDF (SS)	3.22e5	6.19e5	9.41e5	36.48	1.00	0.52	NO	99.757	0.808	0.200	6.24e6	5108	1221.8	1.21e7	5250	2314.3	bd
33	13C-123478-HxCDD (SS)	3.81e5	2.94e5	6.74e5	37.22	1.00	1.30	NO	95.316	0.821	0.196	7.29e6	4418	1650.0	5.67e6	2978	1904.7	bd
	13C-1234789-HpCDF (SS)	1.84e5	4.12e5	5.96e5	41.45	1.05	0.45	NO	100.462	0.760	0.305	2.20e6	3673	599.2	4.96e6	5221	950.8	bb

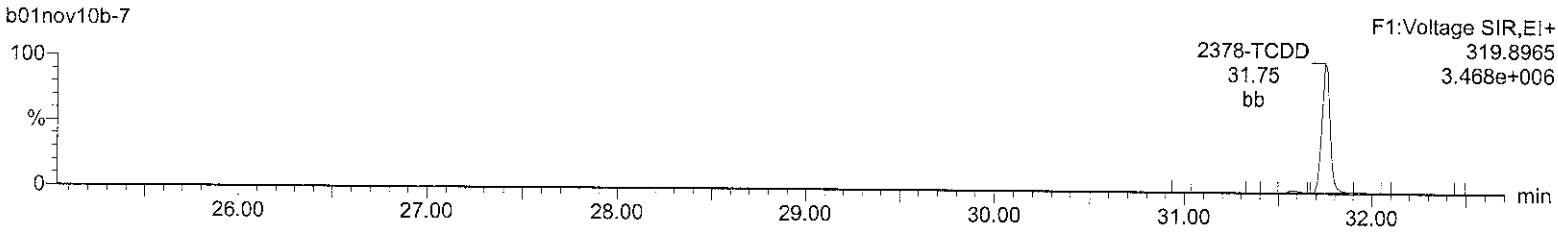
Quantify Sample Report **MassLynx 4.1**
Method 8290 ICAL Report

Dataset: C:\MassLynx\Default.pro\ICAL Results\8290-b01nov10b.qld

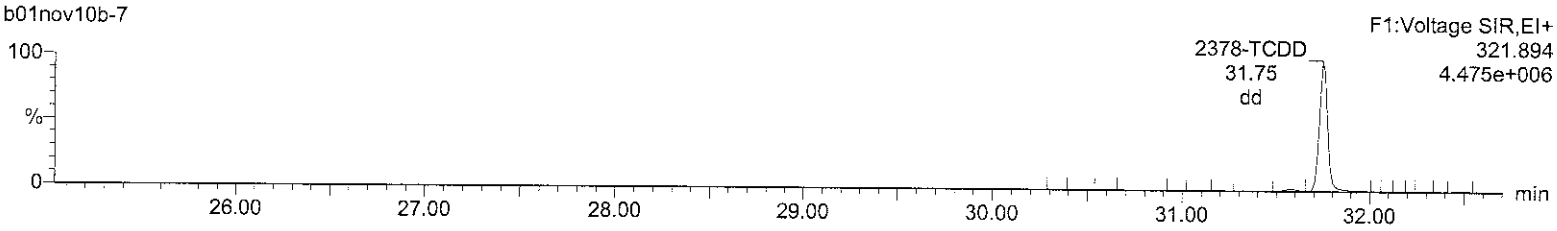
Last Altered: Tuesday, November 02, 2010 08:16:46 Eastern Standard Time
Printed: Tuesday, November 02, 2010 08:17:27 Eastern Standard Time

Name: b01nov10b-7, Date: 01-Nov-2010, Time: 22:29:56, ID: CS4 UD101022-05, Description: , Job: b01nov10b, Task: HRP763_1, User: MJC

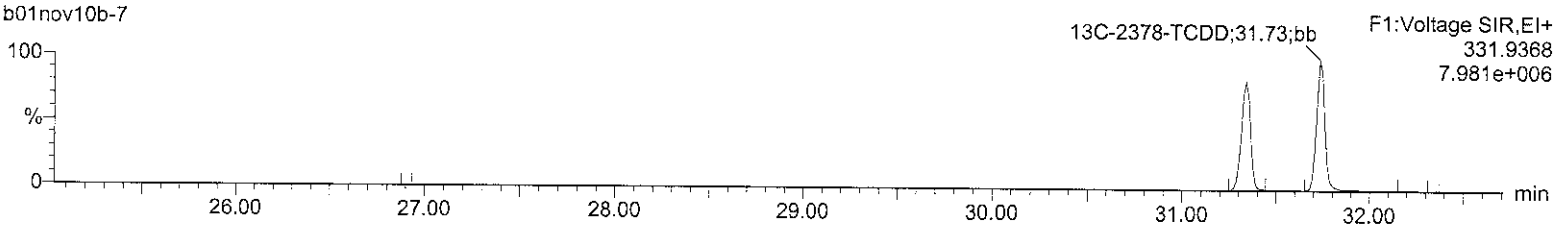
Total-tetradioxins



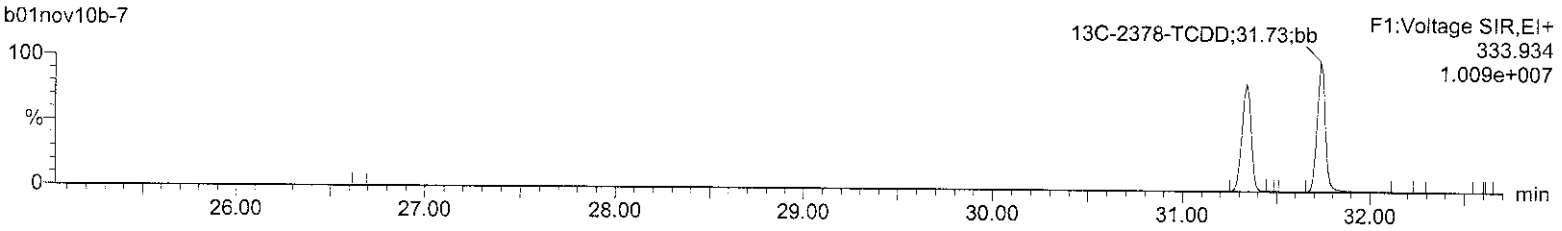
Total-tetradioxins



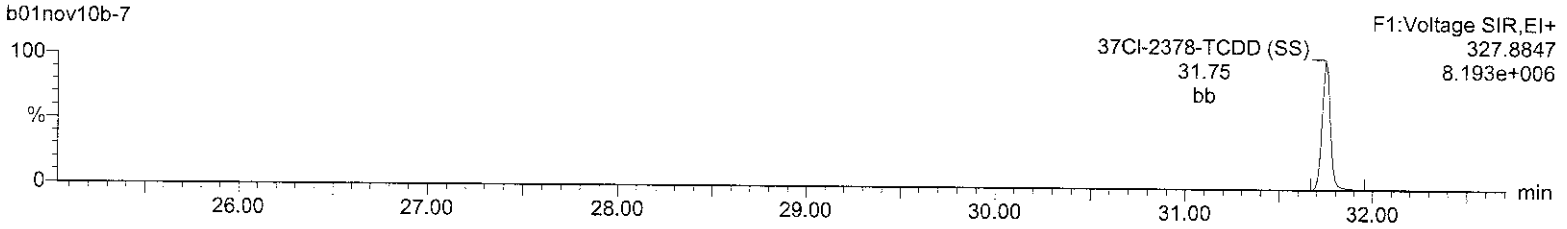
13C-2378-TCDD



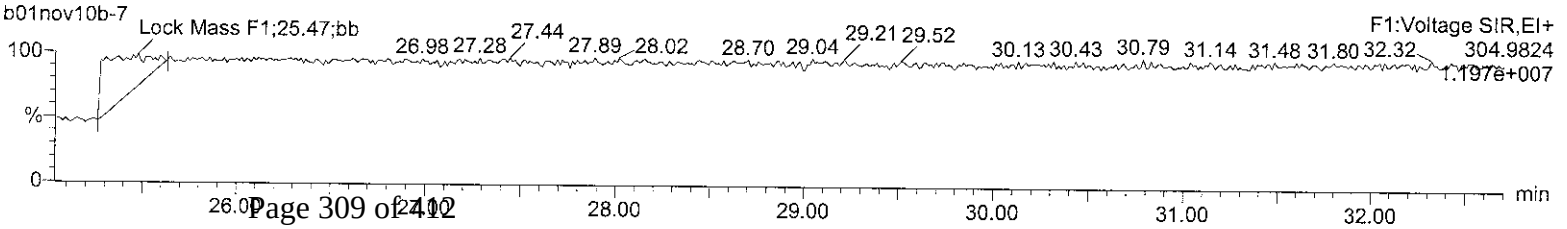
13C-2378-TCDD



37Cl-2378-TCDD (SS)



Lock Mass F1



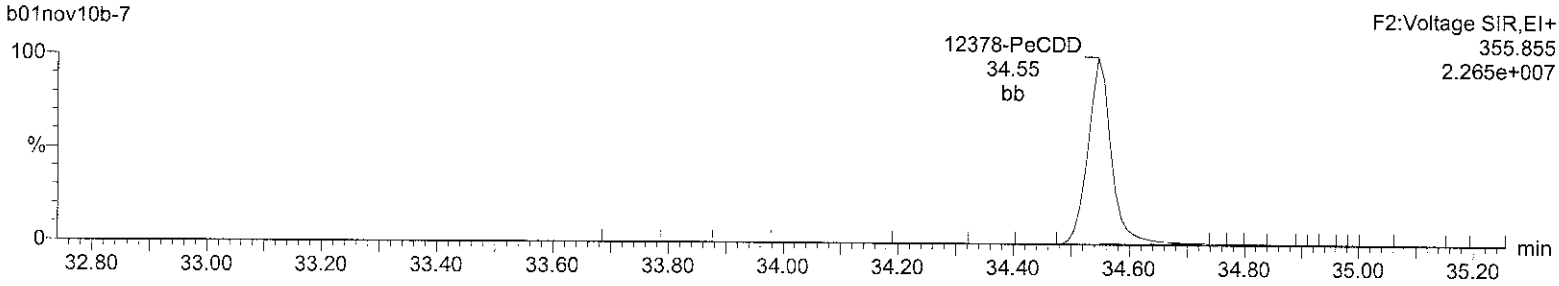
Quantify Sample Report **MassLynx 4.1**
Method 8290 ICAL Report

Dataset: C:\MassLynx\Default.pro\ICAL Results\8290-b01nov10b.qld

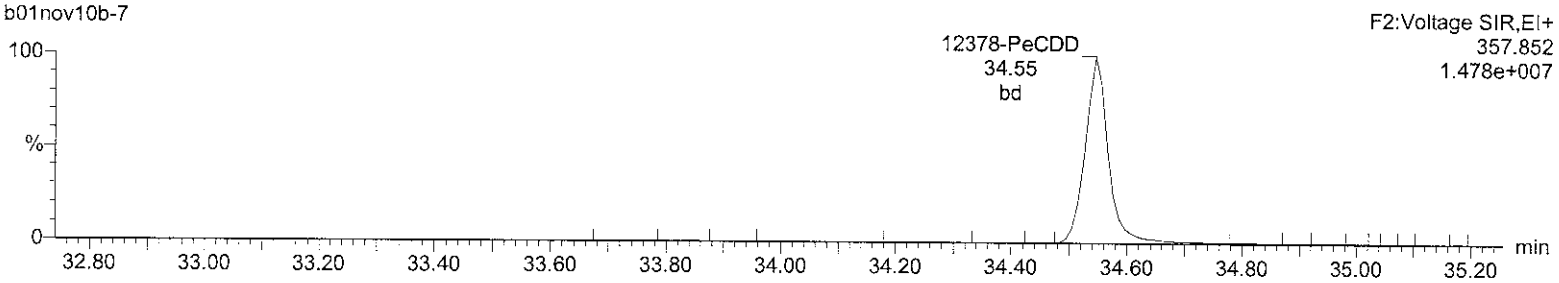
Last Altered: Tuesday, November 02, 2010 08:16:46 Eastern Standard Time
Printed: Tuesday, November 02, 2010 08:17:27 Eastern Standard Time

Name: b01nov10b-7, Date: 01-Nov-2010, Time: 22:29:56, ID: CS4 UD101022-05, Description: , Job: b01nov10b, Task: HRP763_1, User: MJC

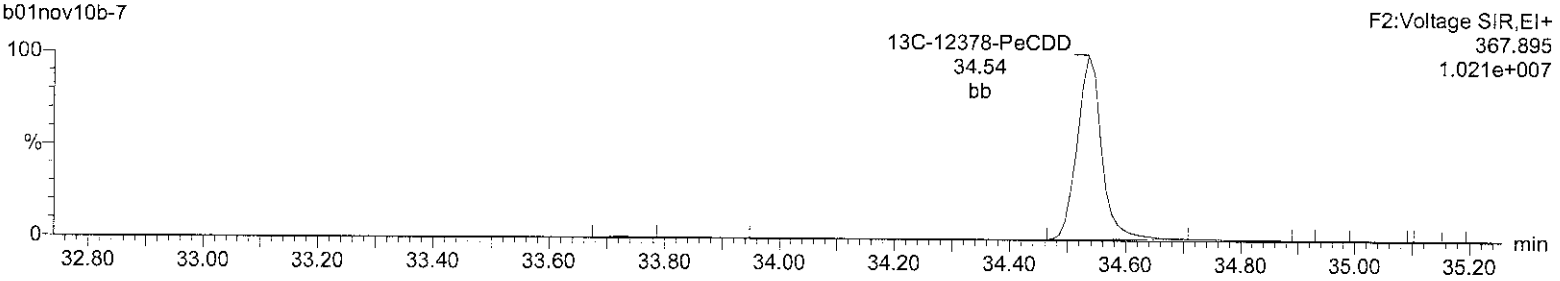
Total-pentadioxins



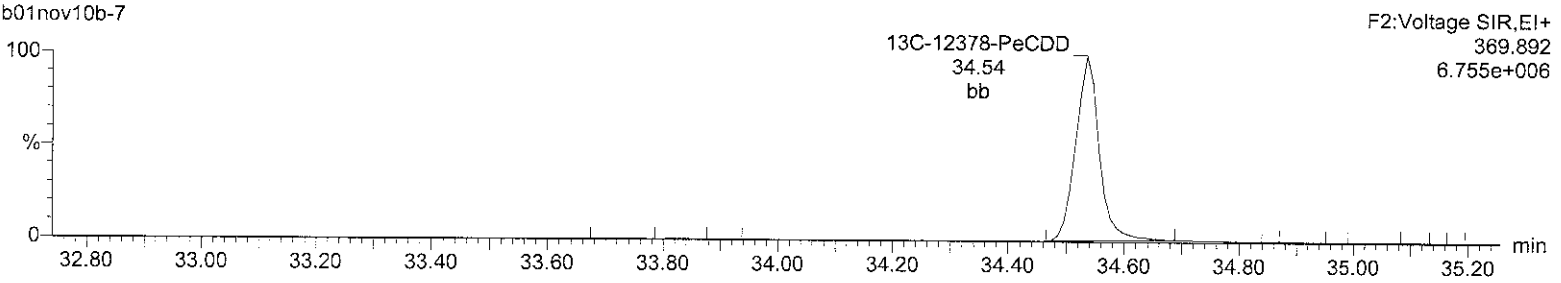
Total-pentadioxins



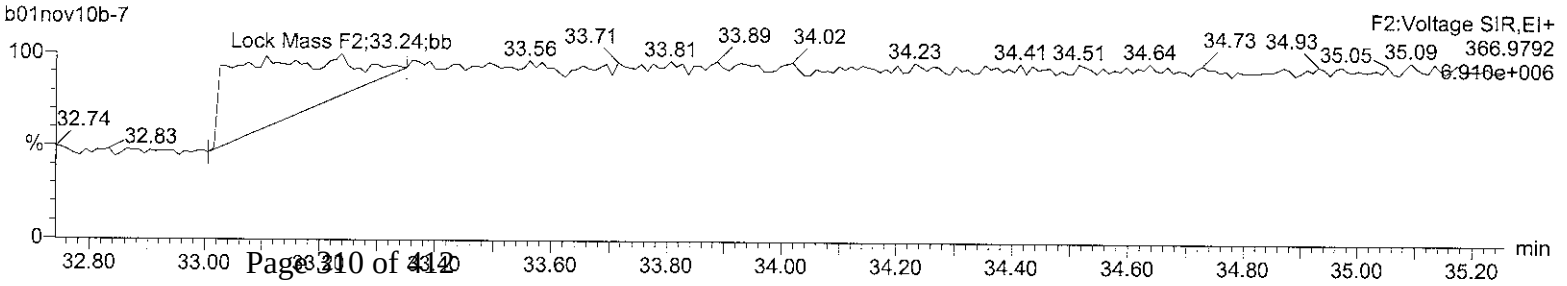
13C-12378-PeCDD



13C-12378-PeCDD



Lock Mass F2



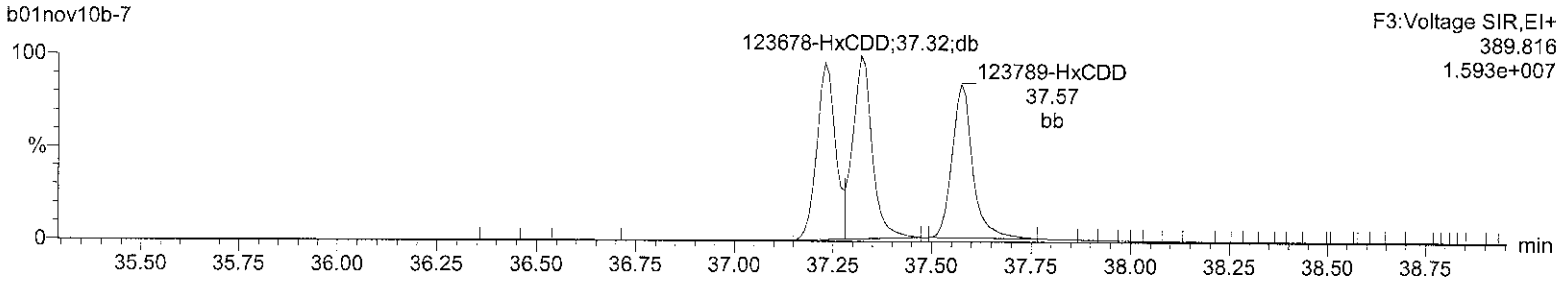
Quantify Sample Report **MassLynx 4.1**
Method 8290 ICAL Report

Dataset: C:\MassLynx\Default.pro\ICAL Results\8290-b01nov10b.qld

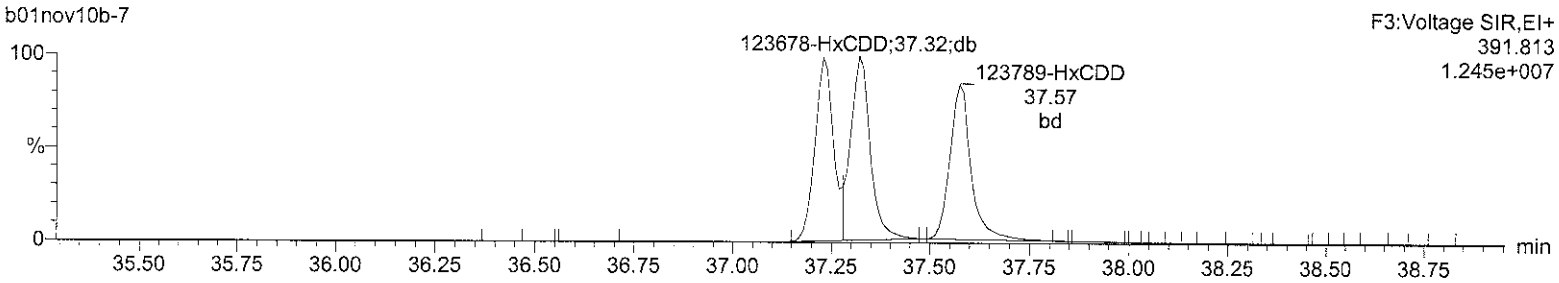
Last Altered: Tuesday, November 02, 2010 08:16:46 Eastern Standard Time
Printed: Tuesday, November 02, 2010 08:17:27 Eastern Standard Time

Name: b01nov10b-7, Date: 01-Nov-2010, Time: 22:29:56, ID: CS4 UD101022-05, Description: , Job: b01nov10b, Task: HRP763_1, User: MJC

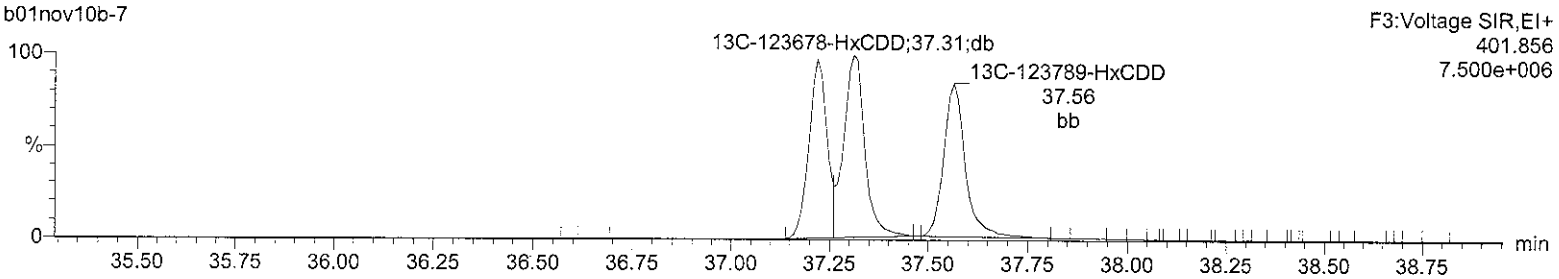
Total-hexadioxins



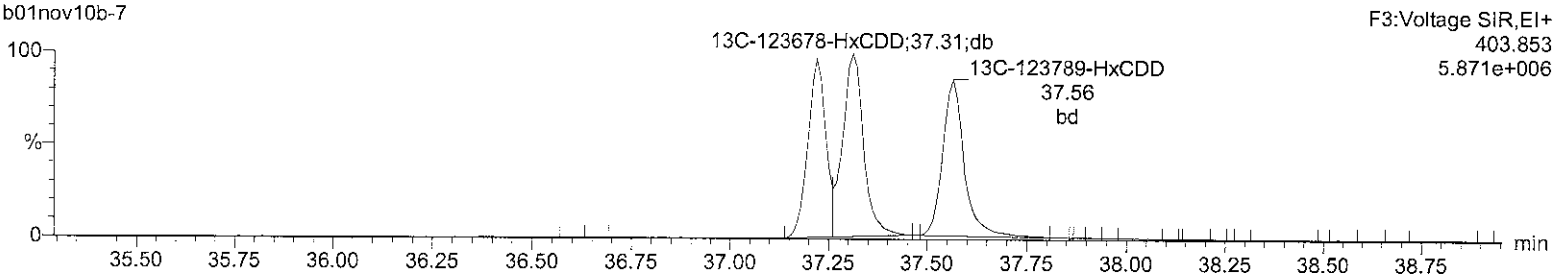
Total-hexadioxins



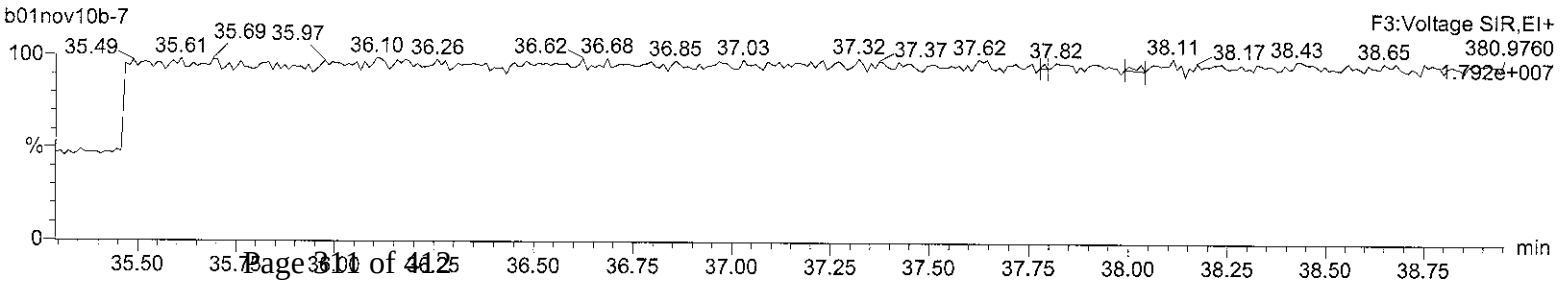
13C-123678-HxCDD



13C-123678-HxCDD



Lock Mass F3



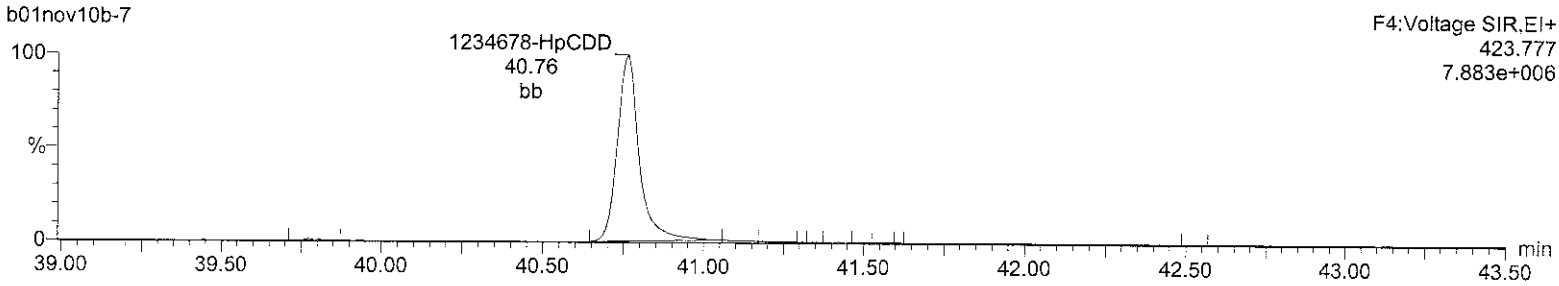
Quantify Sample Report **MassLynx 4.1**
Method 8290 ICAL Report

Dataset: C:\MassLynx\Default.pro\ICAL Results\8290-b01nov10b.qld

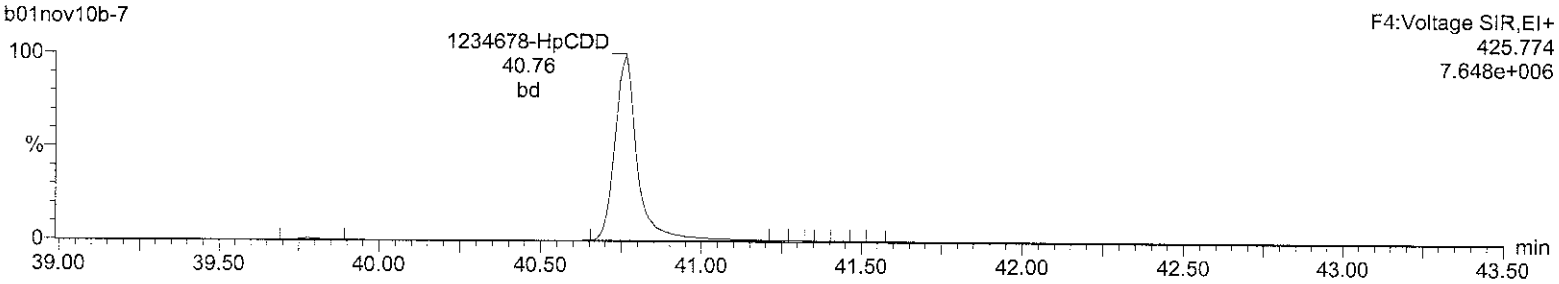
Last Altered: Tuesday, November 02, 2010 08:16:46 Eastern Standard Time
Printed: Tuesday, November 02, 2010 08:17:27 Eastern Standard Time

Name: b01nov10b-7, Date: 01-Nov-2010, Time: 22:29:56, ID: CS4 UD101022-05, Description: , Job: b01nov10b, Task: HRP763_1, User: MJC

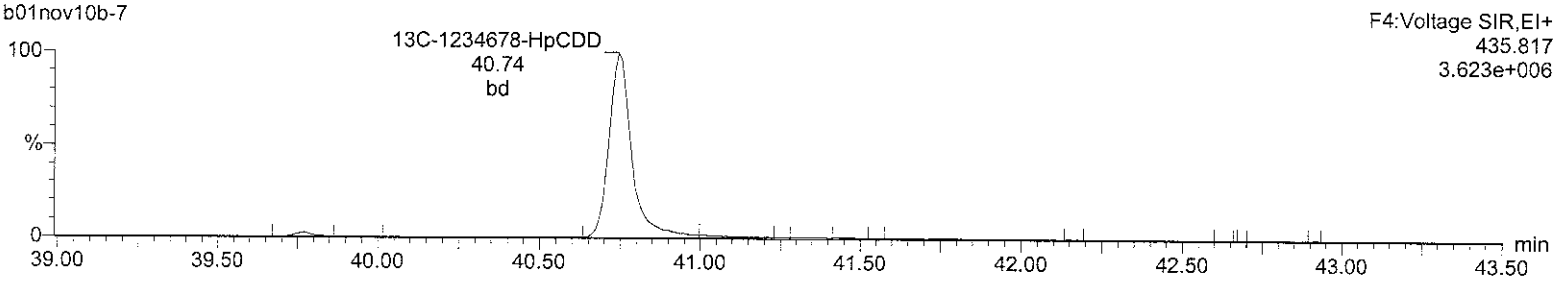
Total-heptadioxins



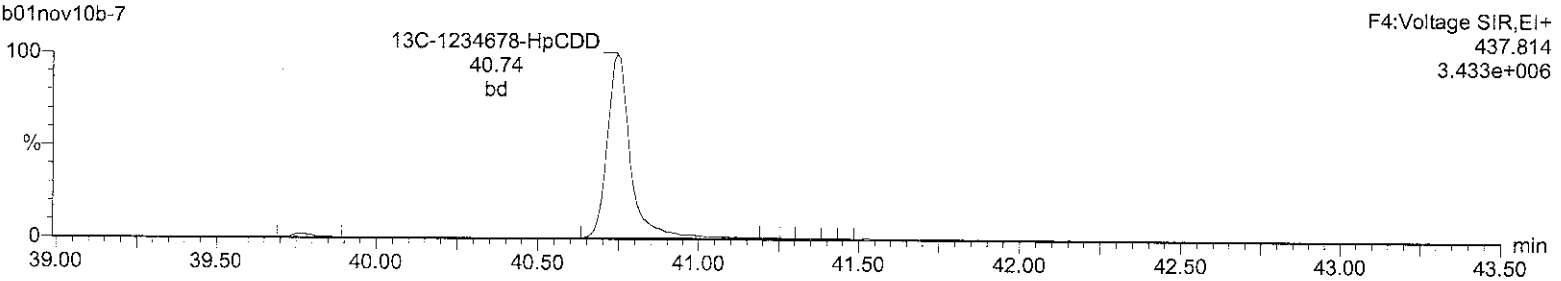
Total-heptadioxins



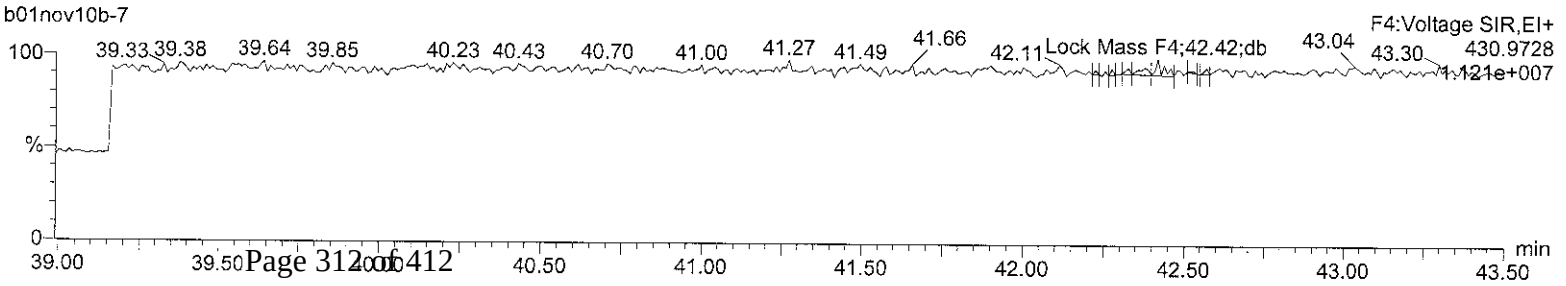
13C-1234678-HpCDD



13C-1234678-HpCDD



Lock Mass F4



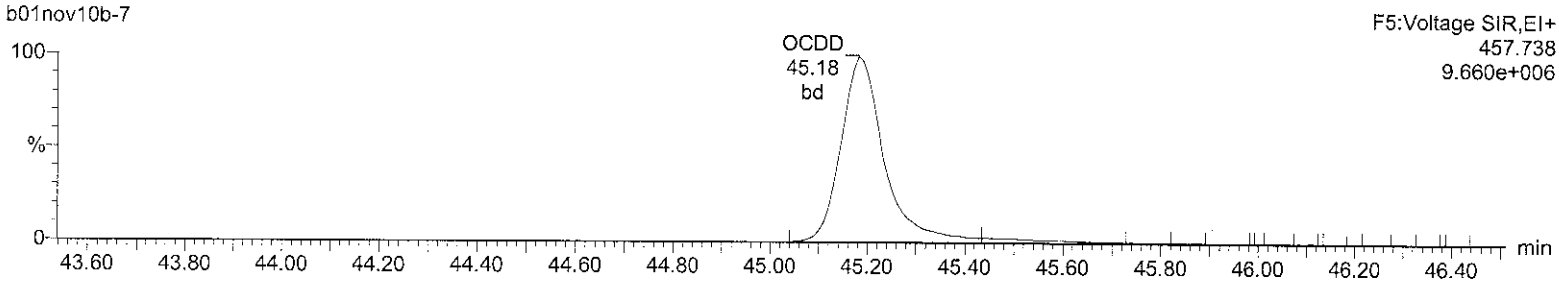
Quantify Sample Report **MassLynx 4.1**
Method 8290 ICAL Report

Dataset: C:\MassLynx\Default.pro\ICAL Results\8290-b01nov10b.qld

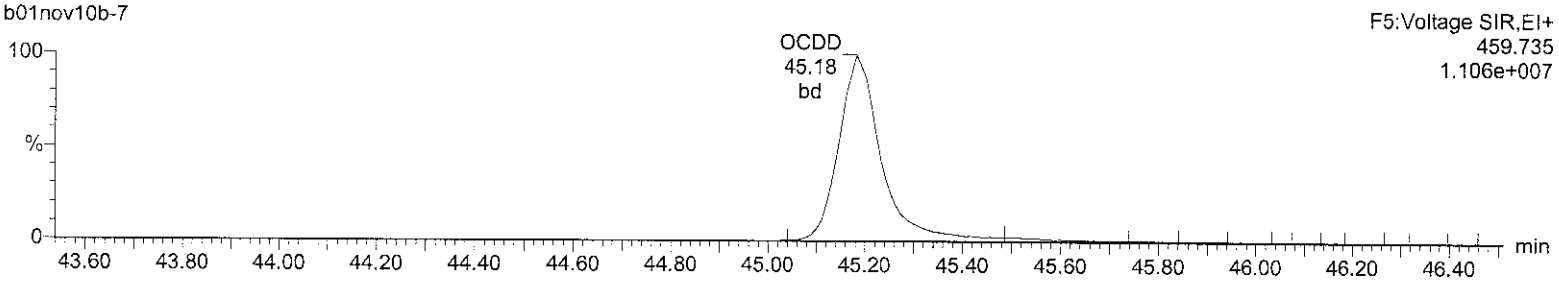
Last Altered: Tuesday, November 02, 2010 08:16:46 Eastern Standard Time
Printed: Tuesday, November 02, 2010 08:17:27 Eastern Standard Time

Name: b01nov10b-7, Date: 01-Nov-2010, Time: 22:29:56, ID: CS4 UD101022-05, Description: , Job: b01nov10b, Task: HRP763_1, User: MJC

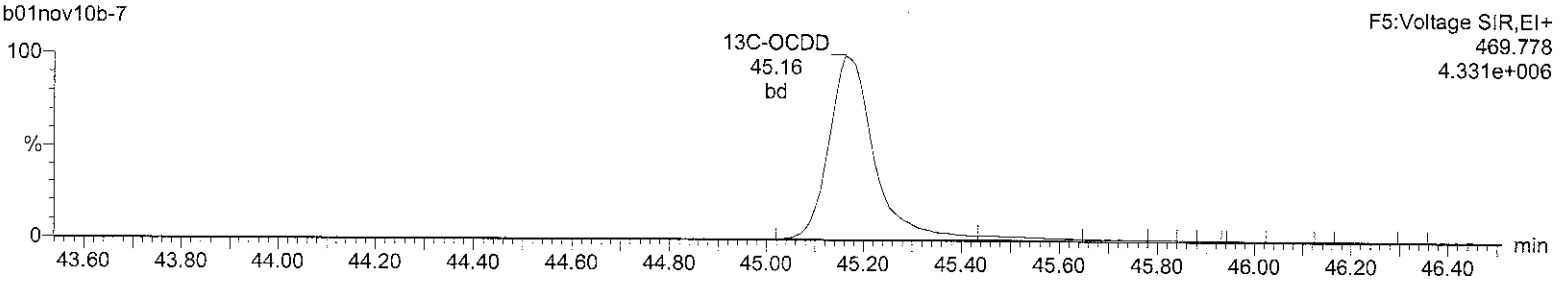
OCDD



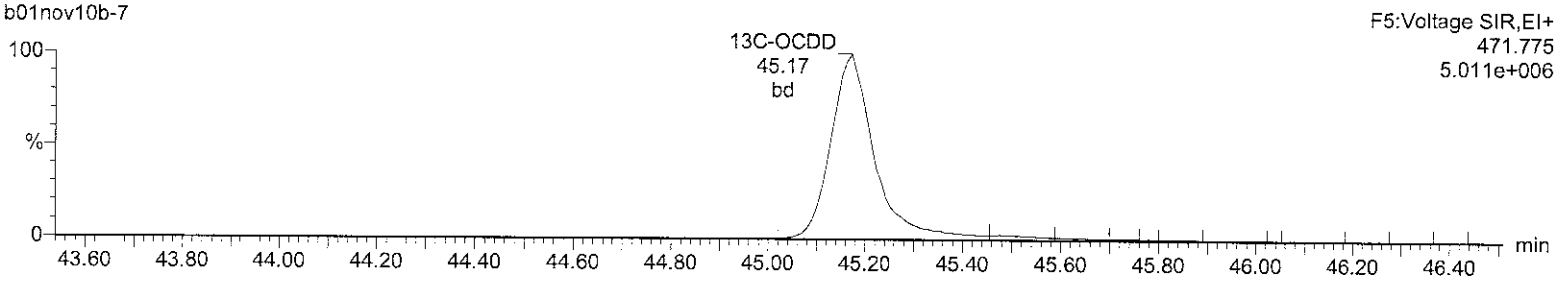
OCDD



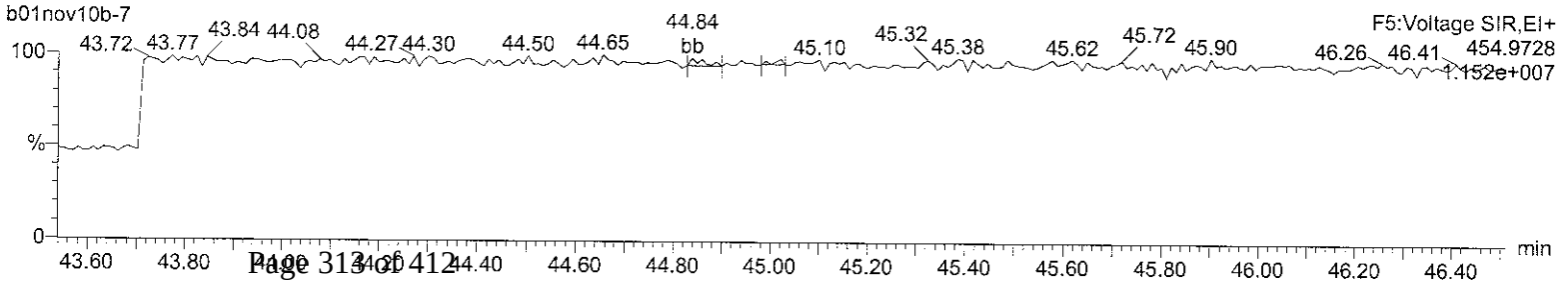
13C-OCDD



13C-OCDD



Lock Mass F5



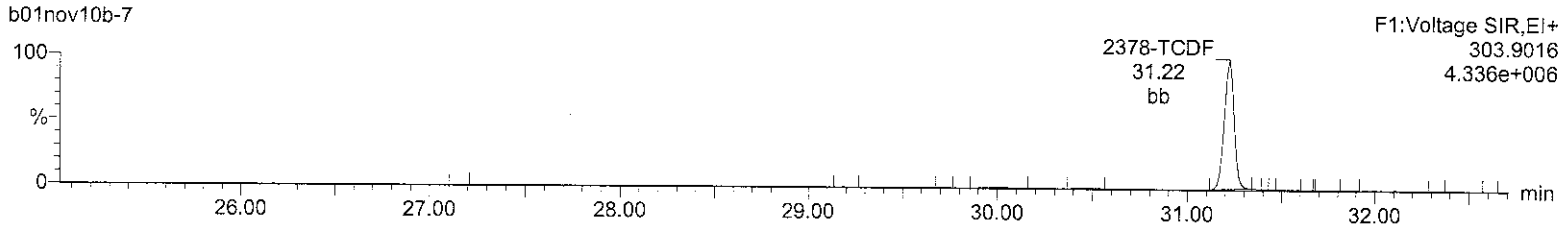
Quantify Sample Report **MassLynx 4.1**
Method 8290 ICAL Report

Dataset: C:\MassLynx\Default.pro\ICAL Results\8290-b01nov10b.qld

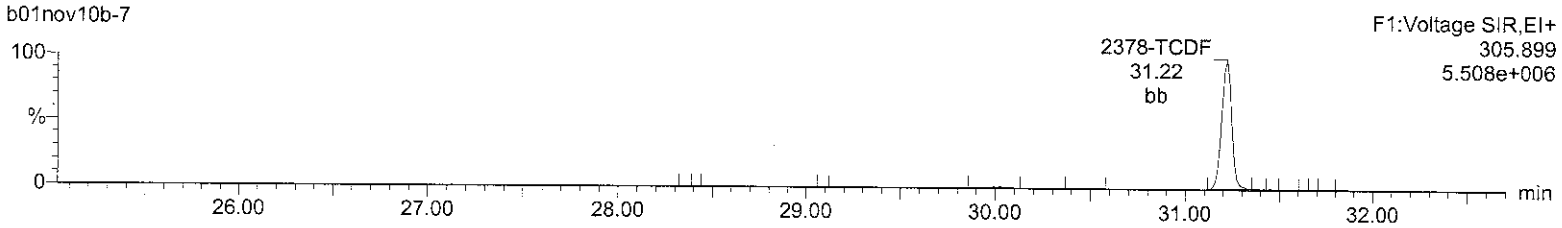
Last Altered: Tuesday, November 02, 2010 08:16:46 Eastern Standard Time
Printed: Tuesday, November 02, 2010 08:17:27 Eastern Standard Time

Name: b01nov10b-7, Date: 01-Nov-2010, Time: 22:29:56, ID: CS4 UD101022-05, Description: , Job: b01nov10b, Task: HRP763_1, User: MJC

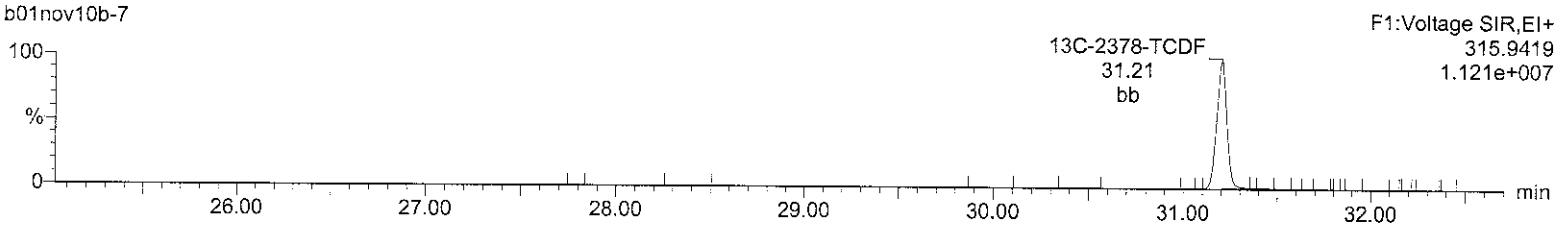
Total-tetrafurans



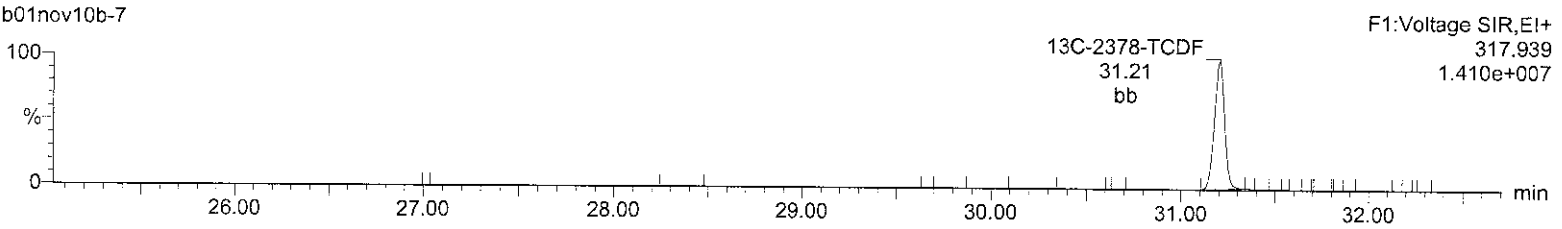
Total-tetrafurans



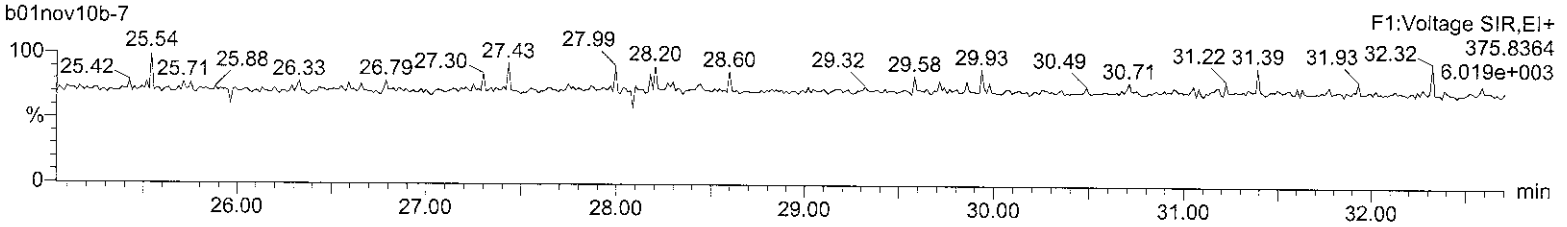
13C-2378-TCDF



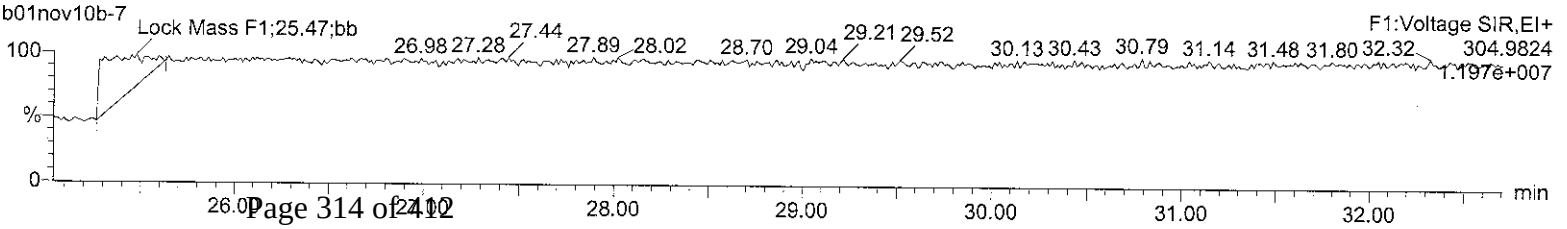
13C-2378-TCDF



HxDPE



Lock Mass F1



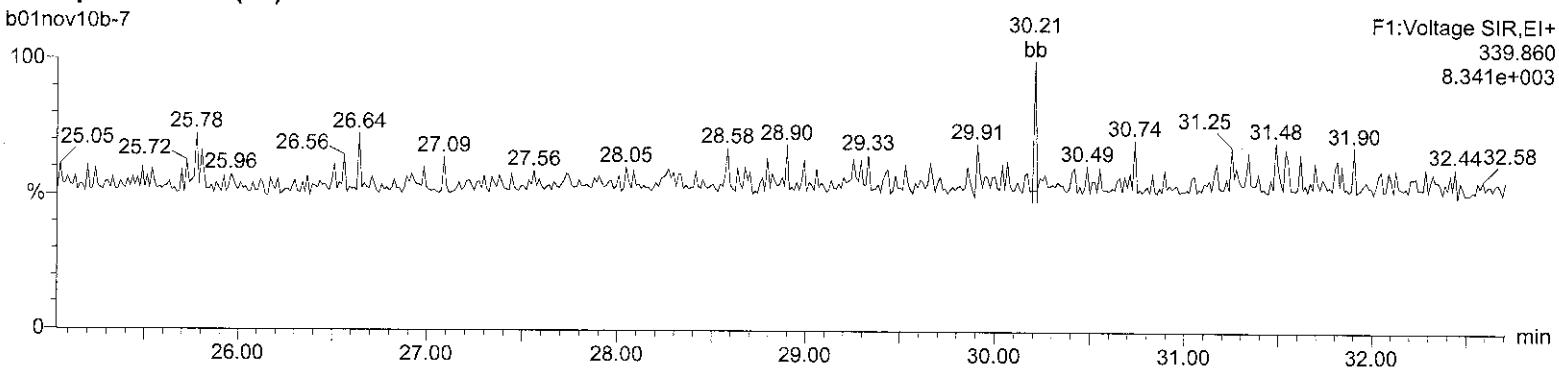
Quantify Sample Report **MassLynx 4.1**
Method 8290 ICAL Report

Dataset: C:\MassLynx\Default.pro\ICAL Results\8290-b01nov10b.qld

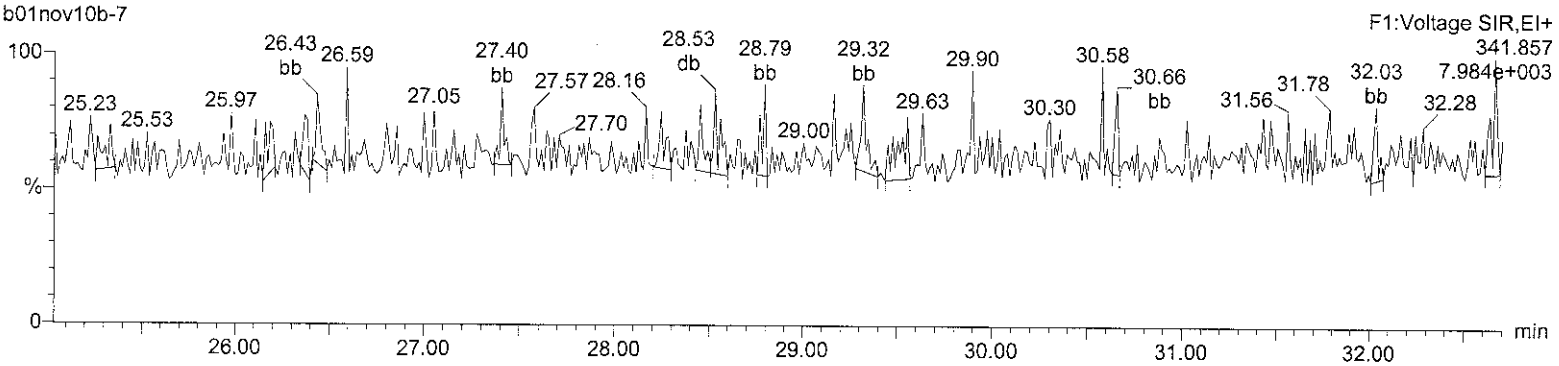
Last Altered: Tuesday, November 02, 2010 08:16:46 Eastern Standard Time
Printed: Tuesday, November 02, 2010 08:17:27 Eastern Standard Time

Name: b01nov10b-7, Date: 01-Nov-2010, Time: 22:29:56, ID: CS4 UD101022-05, Description: , Job: b01nov10b, Task: HRP763_1, User: MJC

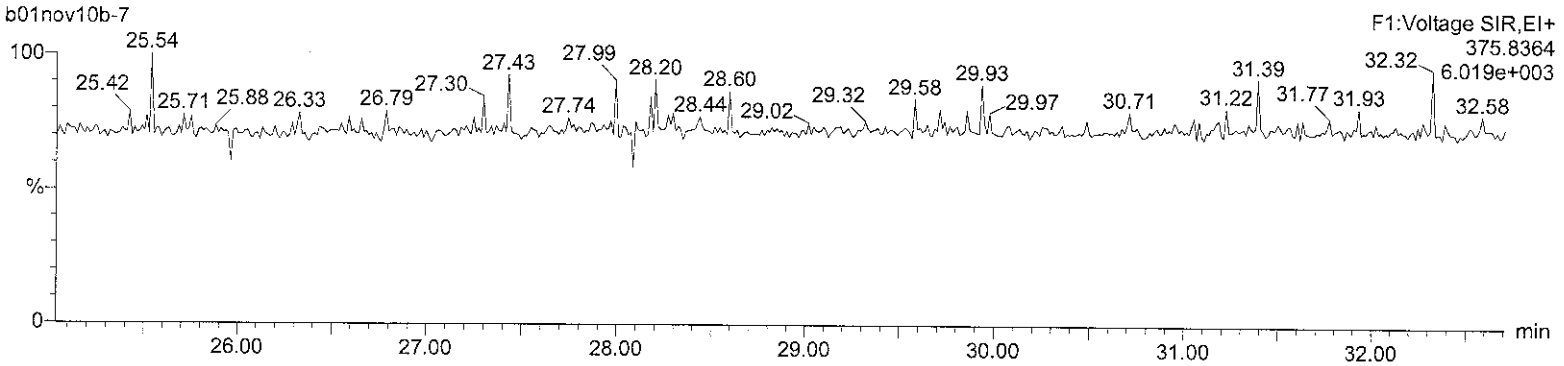
Total-pentafurans (F1)



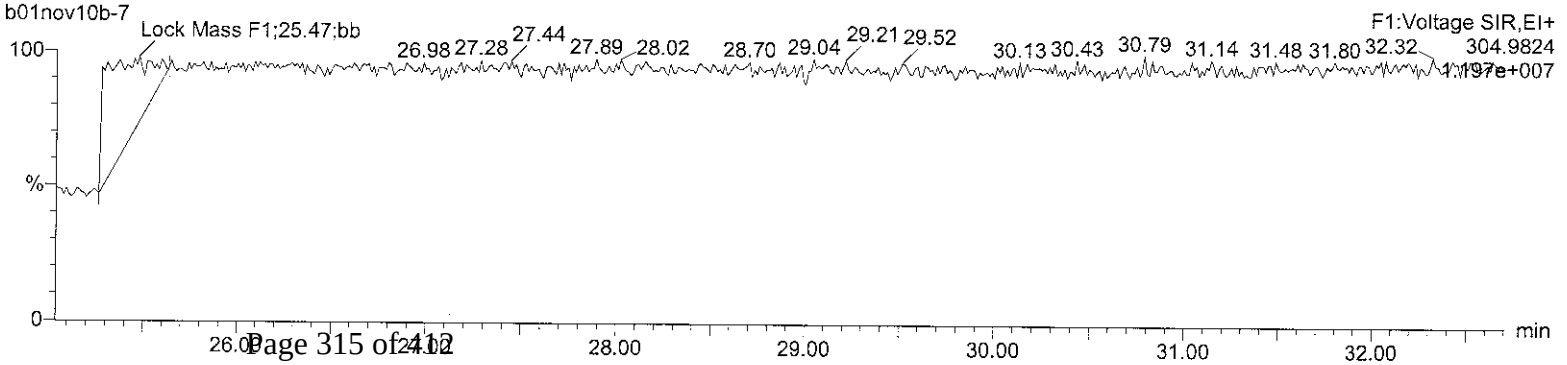
Total-pentafurans (F1)



HxDPE



Lock Mass F1



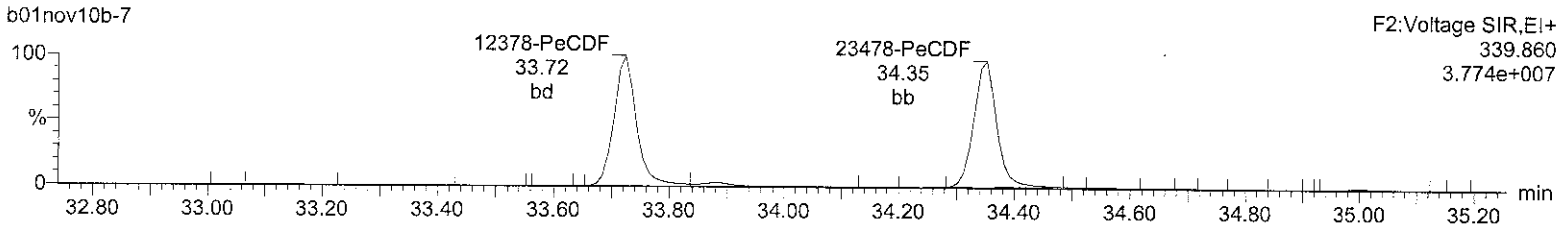
Quantify Sample Report **MassLynx 4.1**
Method 8290 ICAL Report

Dataset: C:\MassLynx\Default.pro\ICAL Results\8290-b01nov10b.qld

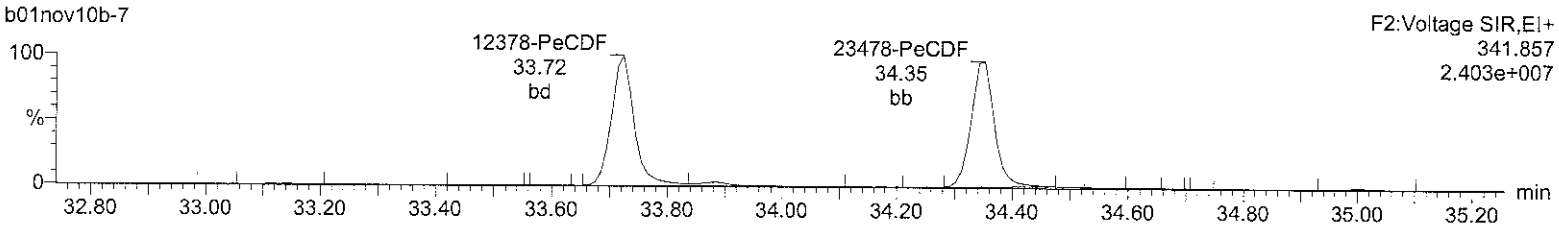
Last Altered: Tuesday, November 02, 2010 08:16:46 Eastern Standard Time
Printed: Tuesday, November 02, 2010 08:17:27 Eastern Standard Time

Name: b01nov10b-7, Date: 01-Nov-2010, Time: 22:29:56, ID: CS4 UD101022-05, Description: , Job: b01nov10b, Task: HRP763_1, User: MJC

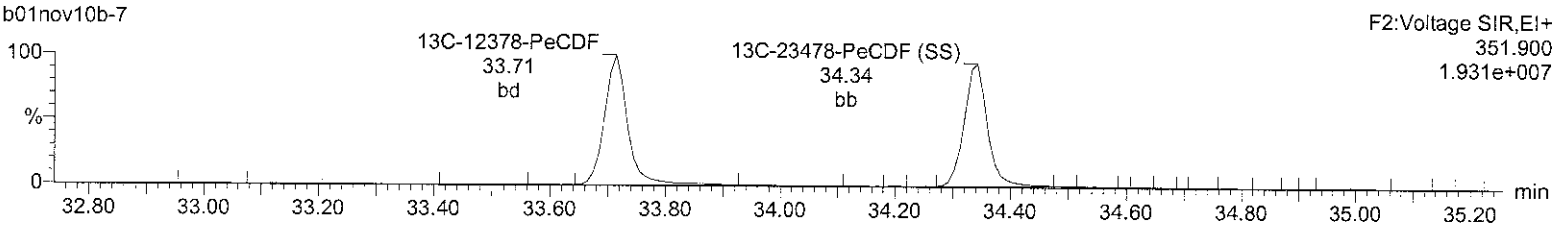
Total-pentafurans



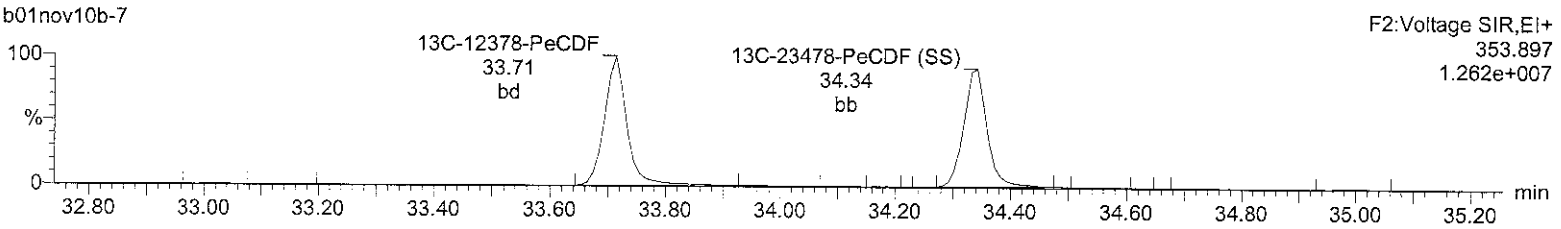
Total-pentafurans



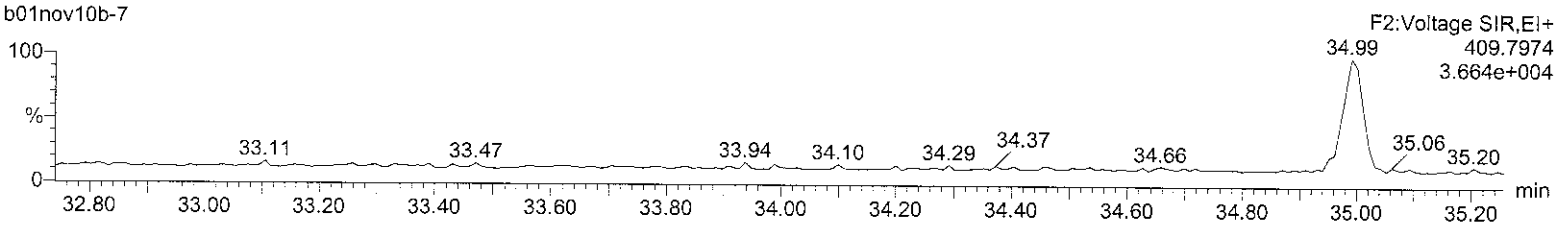
13C-12378-PeCDF



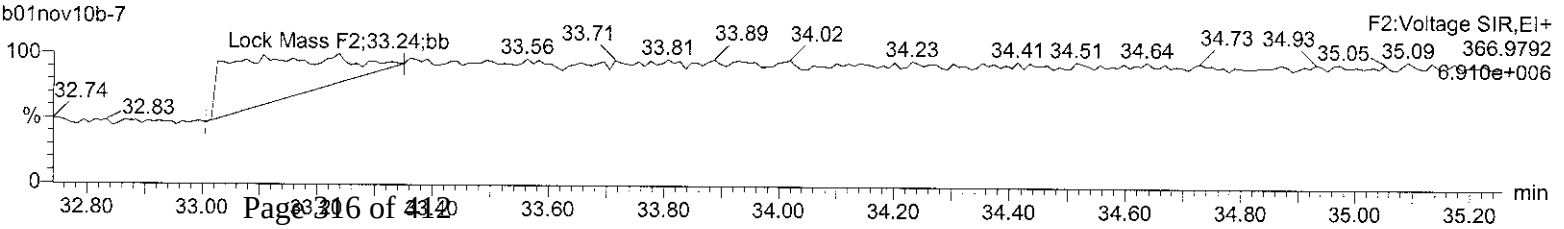
13C-12378-PeCDF



HpDPE



Lock Mass F2



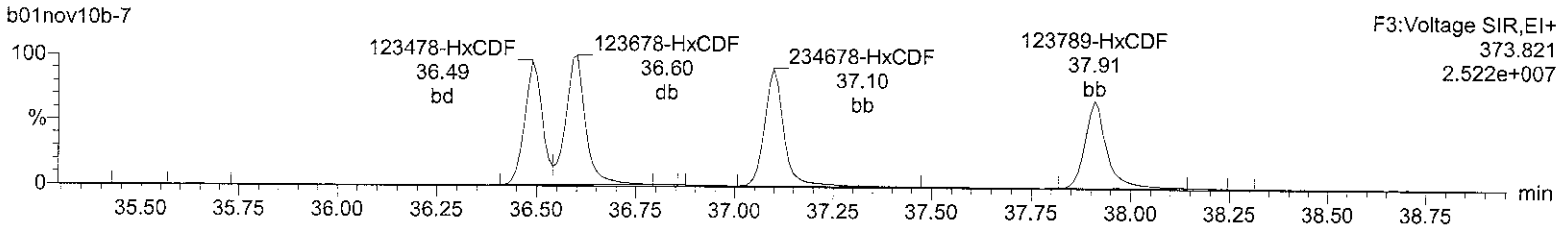
Quantify Sample Report **MassLynx 4.1**
Method 8290 ICAL Report

Dataset: C:\MassLynx\Default.pro\ICAL Results\8290-b01nov10b.qld

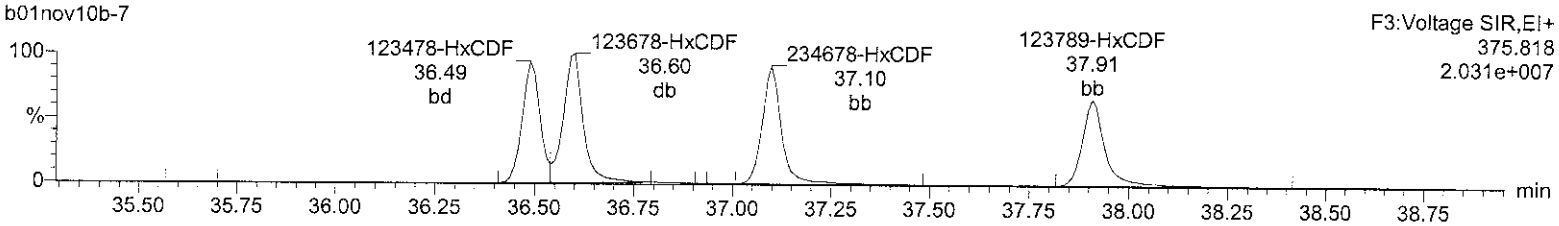
Last Altered: Tuesday, November 02, 2010 08:16:46 Eastern Standard Time
Printed: Tuesday, November 02, 2010 08:17:27 Eastern Standard Time

Name: b01nov10b-7, Date: 01-Nov-2010, Time: 22:29:56, ID: CS4 UD101022-05, Description: , Job: b01nov10b, Task: HRP763_1, User: MJC

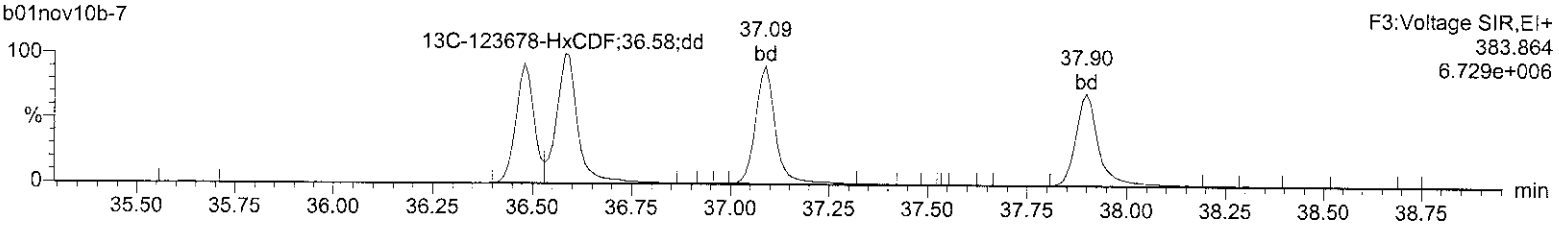
Total-hexafurans



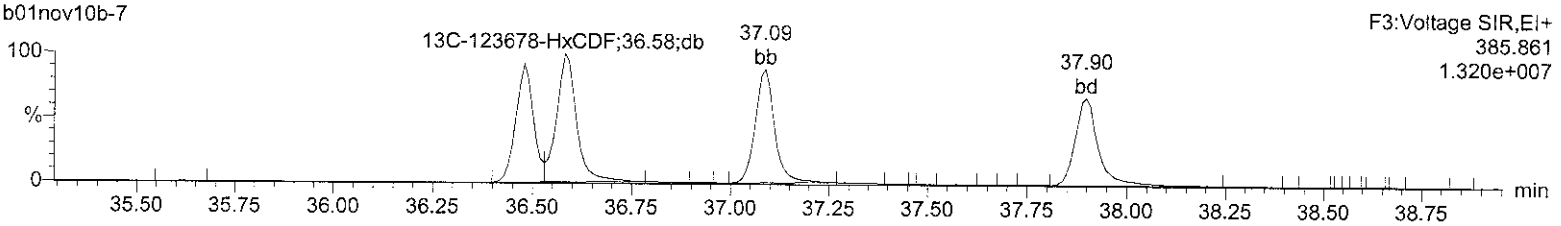
Total-hexafurans



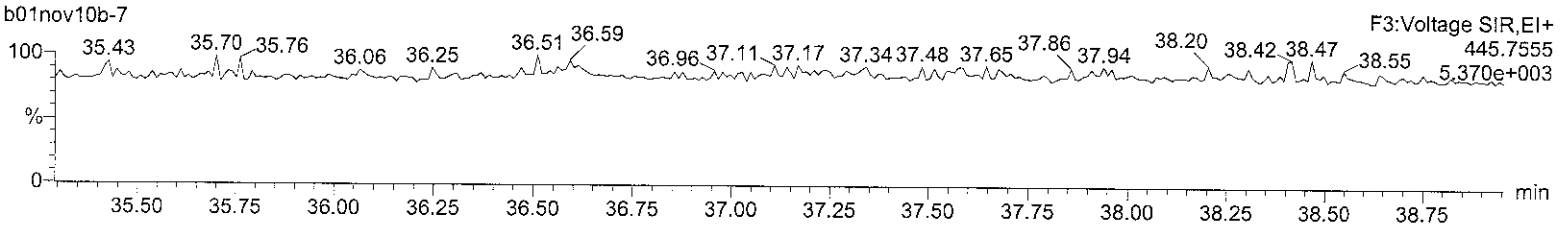
13C-123678-HxCDF



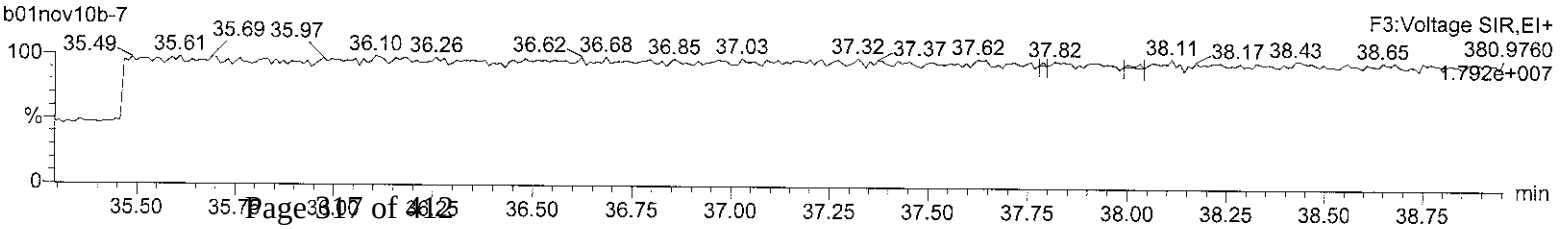
13C-123678-HxCDF



OcDPE



Lock Mass F3



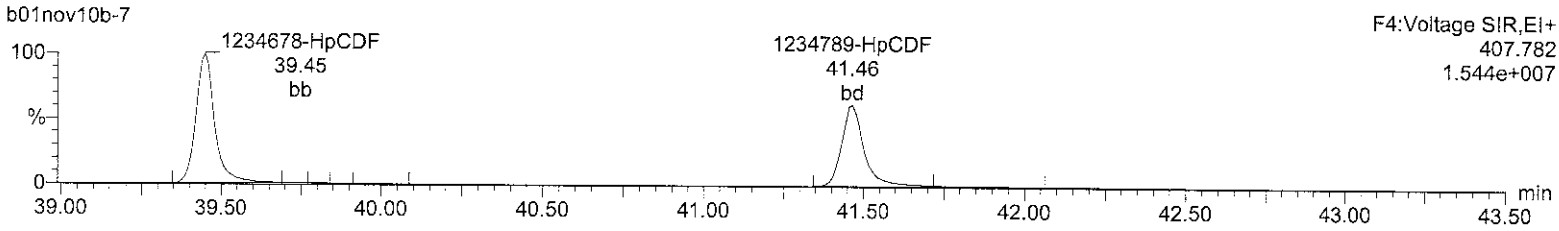
Quantify Sample Report **MassLynx 4.1**
Method 8290 ICAL Report

Dataset: C:\MassLynx\Default.pro\ICAL Results\8290-b01nov10b.qld

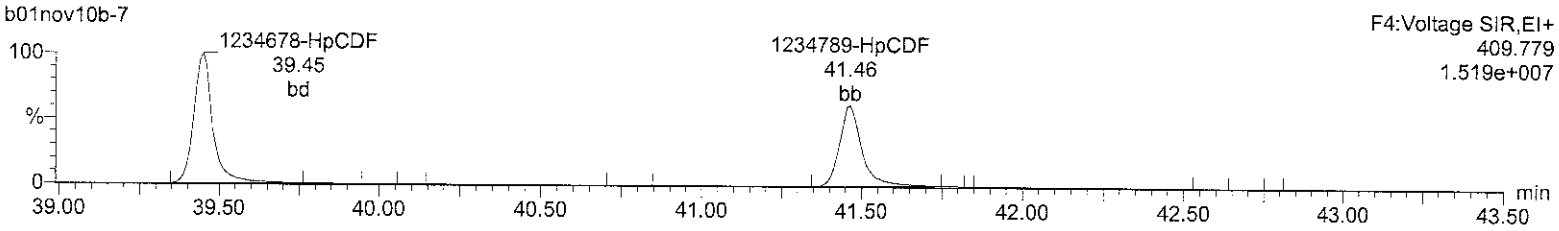
Last Altered: Tuesday, November 02, 2010 08:16:46 Eastern Standard Time
Printed: Tuesday, November 02, 2010 08:17:27 Eastern Standard Time

Name: b01nov10b-7, Date: 01-Nov-2010, Time: 22:29:56, ID: CS4 UD101022-05, Description: , Job: b01nov10b, Task: HRP763_1, User: MJC

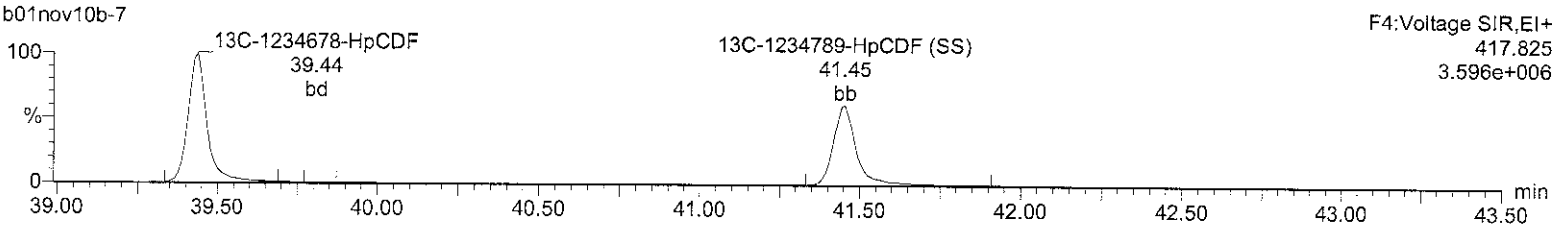
Total-heptafurans



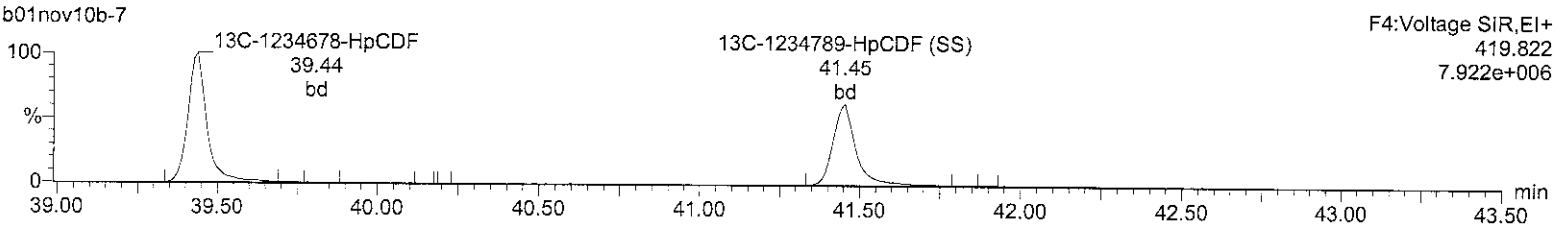
Total-heptafurans



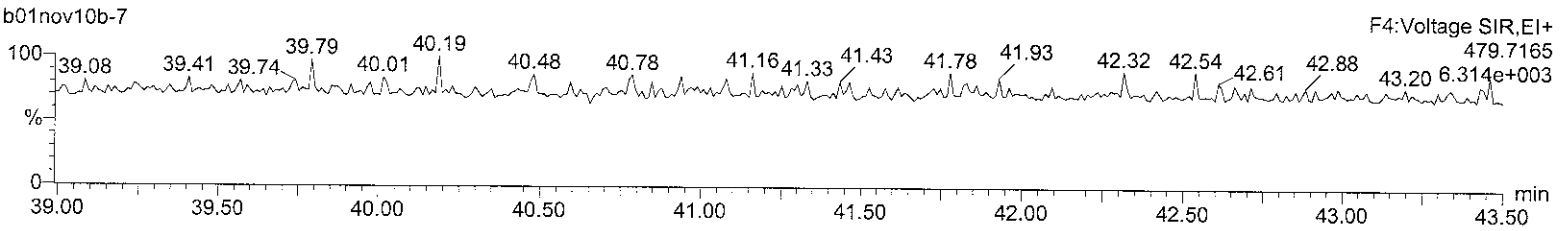
13C-1234678-HpCDF



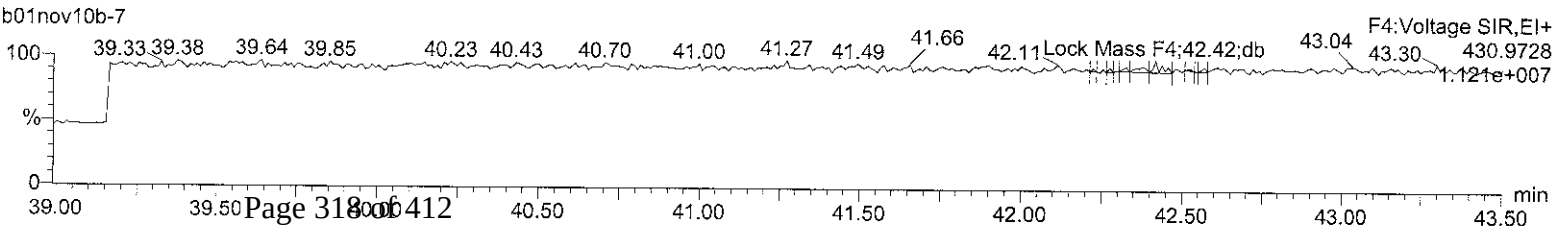
13C-1234678-HpCDF



NoDPE



Lock Mass F4



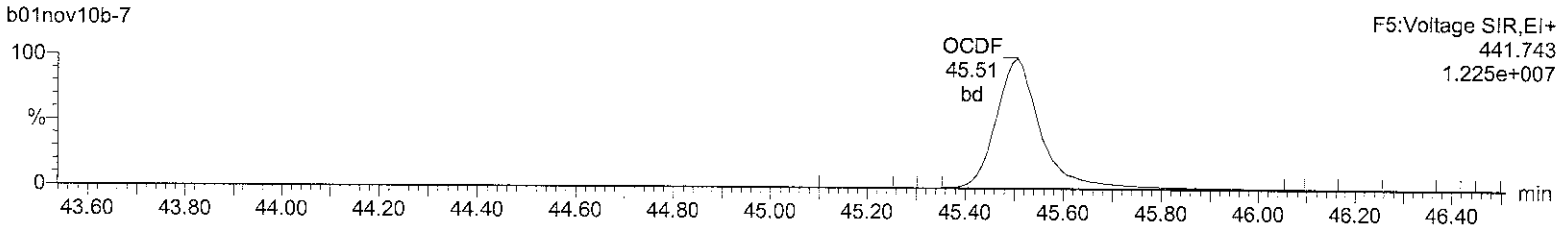
Quantify Sample Report **MassLynx 4.1**
Method 8290 ICAL Report

Dataset: C:\MassLynx\Default.pro\ICAL Results\8290-b01nov10b.qld

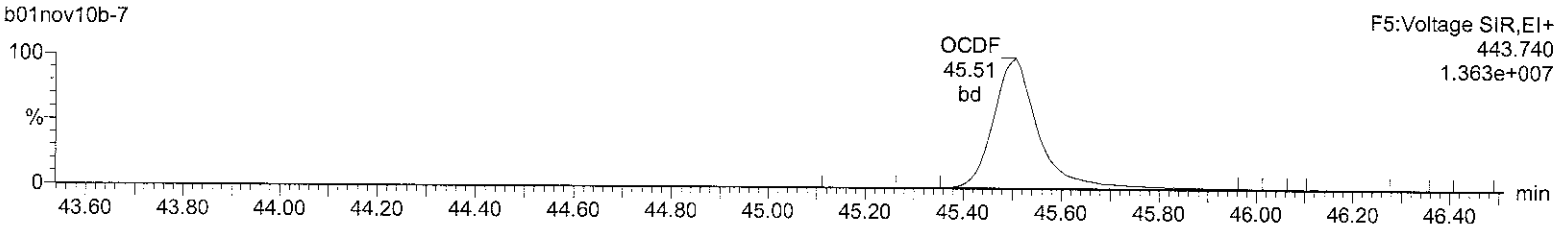
Last Altered: Tuesday, November 02, 2010 08:16:46 Eastern Standard Time
Printed: Tuesday, November 02, 2010 08:17:27 Eastern Standard Time

Name: b01nov10b-7, Date: 01-Nov-2010, Time: 22:29:56, ID: CS4 UD101022-05, Description: , Job: b01nov10b, Task: HRP763_1, User: MJC

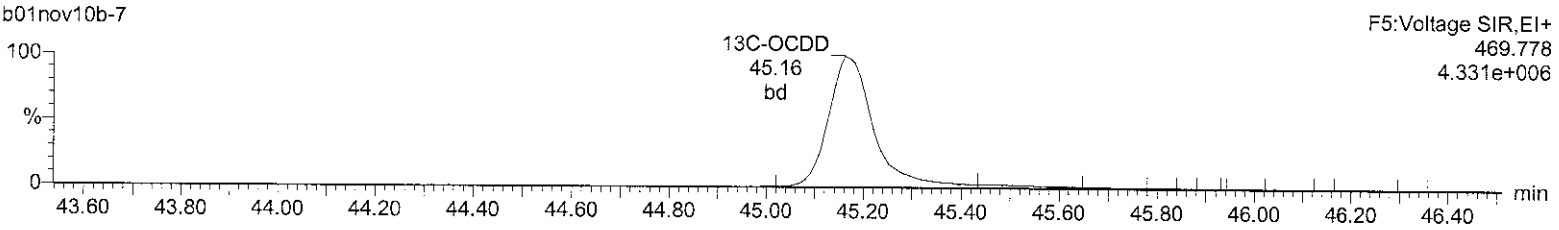
OCDF



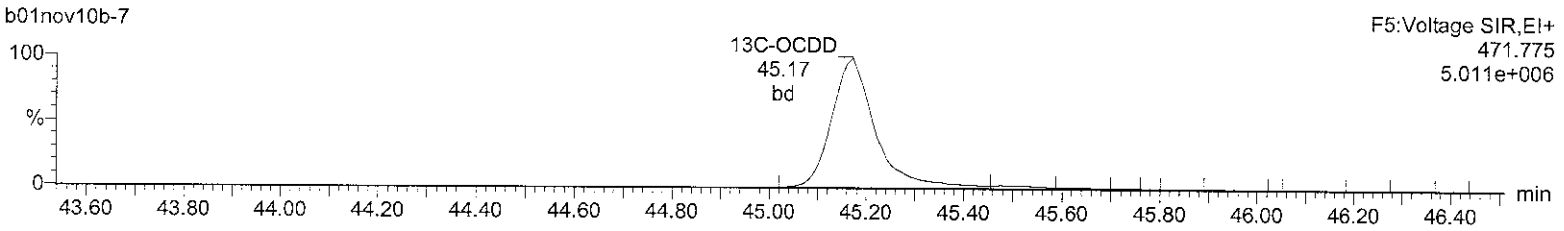
OCDF



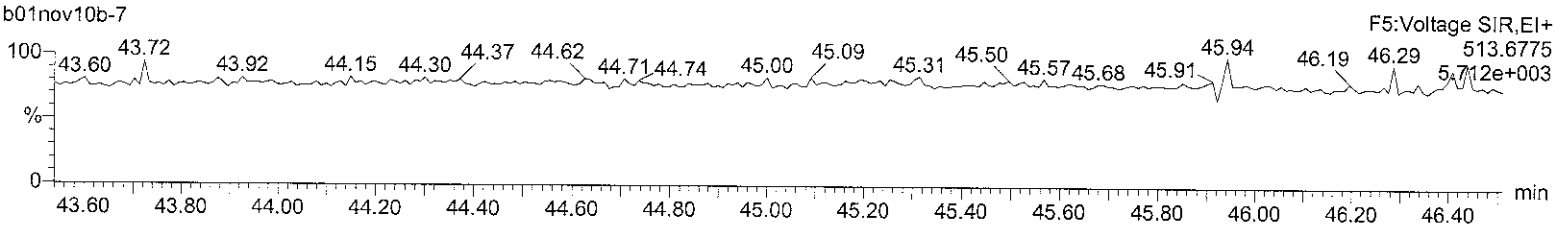
13C-OCDD



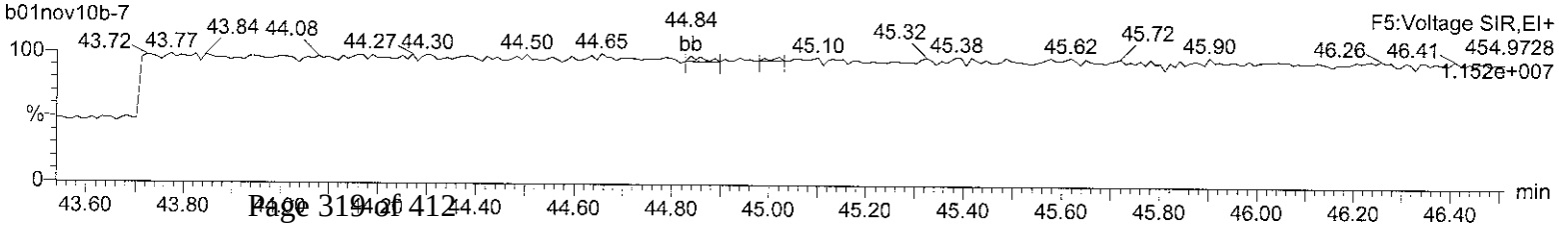
13C-OCDD



DeDPE



Lock Mass F5



Quantify Sample Summary Report **MassLynx 4.1**
Method 8290 ICAL Report

Dataset: C:\MassLynx\Default.pro\ICAL Results\8290-b01nov10b.qld

Last Altered: Tuesday, November 02, 2010 08:19:01 Eastern Standard Time
Printed: Tuesday, November 02, 2010 08:23:00 Eastern Standard Time

Name: b01nov10b-8, Date: 01-Nov-2010, Time: 23:18:22, ID: CS5 UD090323-06, Description: , Job: b01nov10b, Task: HRP763_1, User: MJC

	Name	Ion1Area	Ion2Area	Response	RT	RRT	RA	Fail?	pg/uL	RRF	EDL	Height1	Noise1	S/N1	Height2	Noise2	S/N2	M
	2378-TCDD	1.21e6	1.55e6	2.75e6	31.76	1.00	0.78	NO	203.291	1.029	0.0369	2.38e7	1758	13540.3	3.02e7	1613	18739.8	bb
2	12378-PeCDD	8.03e6	5.09e6	1.31e7	34.55	1.00	1.58	NO	1050.368	1.084	0.0858	1.79e8	4027	44498.4	1.16e8	4128	28005.5	bb
3	123478-HxCDD	6.46e6	5.11e6	1.16e7	37.23	1.00	1.26	NO	1066.500	0.956	0.275	1.22e8	9873	12328.0	9.94e7	8153	12191.6	bd
4	123678-HxCDD	6.84e6	5.35e6	1.22e7	37.32	1.00	1.28	NO	1041.096	1.008	0.255	1.24e8	9873	12589.6	9.73e7	8153	11938.2	db
5	123789-HxCDD	6.22e6	4.92e6	1.11e7	37.57	1.01	1.26	NO	1063.636	0.920	0.285	1.12e8	9873	11313.2	8.68e7	8153	10645.1	bb
6	1234678-HpCDD	4.87e6	4.67e6	9.54e6	40.75	1.00	1.04	NO	1073.286	1.078	0.389	6.70e7	7541	8885.0	6.56e7	8208	7992.9	bb
7	OCDD	8.19e6	9.15e6	1.73e7	45.19	1.00	0.89	NO	2158.822	1.075	0.556	8.52e7	10245	8314.3	9.56e7	5089	18785.3	bd
8	2378-TCDF	1.90e6	2.44e6	4.34e6	31.22	1.00	0.78	NO	211.980	1.042	0.0453	3.14e7	2050	15299.3	4.10e7	3070	13365.3	bb
9	12378-PeCDF	1.24e7	8.06e6	2.05e7	33.72	1.00	1.54	NO	1031.391	0.964	0.145	2.77e8	10398	26637.5	1.80e8	12181	14772.8	bd
10	23478-PeCDF	1.22e7	8.00e6	2.02e7	34.35	1.02	1.53	NO	1039.676	0.951	0.148	2.71e8	10398	26028.5	1.77e8	12181	14511.6	bb
11	123478-HxCDF	9.04e6	7.32e6	1.64e7	36.49	1.00	1.24	NO	1041.712	0.947	0.343	1.87e8	17449	10691.7	1.49e8	14744	10125.7	bd
12	123678-HxCDF	1.06e7	8.66e6	1.93e7	36.60	1.00	1.23	NO	1055.199	1.116	0.295	1.92e8	17449	11028.2	1.57e8	14744	10670.0	db
13	234678-HxCDF	9.86e6	7.97e6	1.78e7	37.10	1.01	1.24	NO	1079.383	1.032	0.326	1.79e8	17449	10259.7	1.47e8	14744	9958.8	bd
14	123789-HxCDF	7.98e6	6.45e6	1.44e7	37.91	1.04	1.24	NO	1054.670	0.835	0.394	1.32e8	17449	7584.2	1.08e8	14744	7346.5	bb
15	1234678-HpCDF	8.14e6	7.93e6	1.61e7	39.45	1.00	1.03	NO	1060.626	1.354	0.372	1.30e8	13791	9404.8	1.25e8	15180	8242.1	bb
16	1234789-HpCDF	6.01e6	5.84e6	1.19e7	41.46	1.05	1.03	NO	1073.172	0.998	0.510	7.82e7	13791	5669.5	7.54e7	15180	4964.9	bb
17	OCDF	1.04e7	1.16e7	2.20e7	45.51	1.01	0.89	NO	2213.282	1.364	0.580	1.07e8	8506	12623.2	1.22e8	11279	10832.1	bb
18	13C-2378-TCDD	5.91e5	7.47e5	1.34e6	31.73	1.01	0.79	NO	108.891	1.219	0.0612	1.19e7	2955	4042.3	1.53e7	1573	9737.9	bb
19	13C-12378-PeCDD	7.43e5	4.68e5	1.21e6	34.53	1.10	1.59	NO	116.103	1.103	0.0736	1.69e7	2509	6753.9	1.05e7	2108	4994.3	bb
20	13C-123678-HxCDD	6.77e5	5.33e5	1.21e6	37.31	0.99	1.27	NO	101.303	1.126	0.105	1.23e7	4403	2787.1	9.63e6	3032	3176.2	db
21	13C-1234678-HpCDD	4.54e5	4.31e5	8.85e5	40.74	1.08	1.05	NO	102.873	0.824	0.131	6.20e6	3540	1751.9	6.05e6	3164	1911.0	bb
22	13C-OCDD	7.68e5	8.46e5	1.61e6	45.17	1.20	0.91	NO	224.803	0.751	0.164	7.90e6	2510	3147.9	8.66e6	4510	1920.2	bd
23	13C-2378-TCDF	9.23e5	1.16e6	2.08e6	31.21	1.00	0.80	NO	104.105	1.896	0.0316	1.53e7	1852	8255.9	1.96e7	1947	10061.0	bb
24	13C-12378-PeCDF	1.31e6	8.21e5	2.13e6	33.71	1.08	1.59	NO	114.461	1.937	0.123	3.07e7	8385	3661.8	1.96e7	5402	3622.9	bd
25	13C-123678-HxCDF	5.97e5	1.13e6	1.73e6	36.58	0.97	0.53	NO	98.698	1.609	0.117	1.07e7	7567	1414.3	2.04e7	4615	4418.9	db
26	13C-1234678-HpCDF	3.67e5	8.21e5	1.19e6	39.44	1.05	0.45	NO	102.265	1.105	0.120	5.65e6	3199	1766.5	1.26e7	5113	2466.9	bb
27	13C-1234-TCDD	4.88e5	6.10e5	1.10e6	31.34	0.00	0.80	NO	100.000	1.000	0.0686	8.81e6	2955	2979.9	1.08e7	1573	6893.5	bb
28	13C-123789-HxCDD	5.99e5	4.75e5	1.07e6	37.56	0.00	1.26	NO	100.000	1.000	0.116	1.07e7	4403	2428.5	8.38e6	3032	2765.4	bb
29	37Cl-2378-TCDD (SS)	2.85e6		2.85e6	31.75	1.00			201.816	1.064	0.0246	5.65e7	2336	24188.0				bb
30	13C-23478-PeCDF (SS)	1.20e6	7.70e5	1.97e6	34.34	1.02	1.56	NO	99.297	0.927	0.0886	2.67e7	8385	3189.4	1.70e7	5402	3142.4	bb
31	13C-123478-HxCDF (SS)	4.84e5	9.35e5	1.42e6	36.48	1.00	0.52	NO	101.376	0.821	0.146	9.89e6	7567	1306.6	1.90e7	4615	4116.3	bd
32	13C-123478-HxCDD (SS)	6.08e5	4.75e5	1.08e6	37.22	1.00	1.28	NO	103.981	0.895	0.118	1.09e7	4403	2479.6	8.55e6	3032	2821.0	bd
33	13C-1234789-HpCDF (SS)	2.84e5	6.39e5	9.22e5	41.45	1.05	0.44	NO	102.742	0.777	0.180	3.67e6	3199	1146.9	7.97e6	5113	1559.6	bb

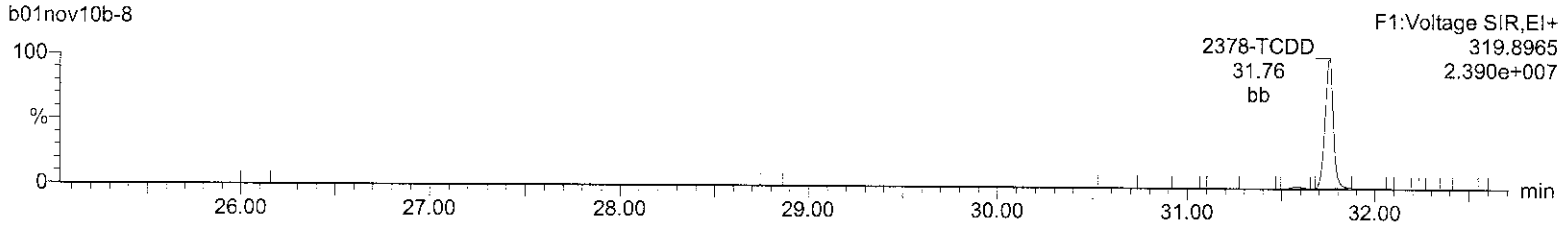
Quantify Sample Report **MassLynx 4.1**
Method 8290 ICAL Report

Dataset: C:\MassLynx\Default.pro\ICAL Results\8290-b01nov10b.qld

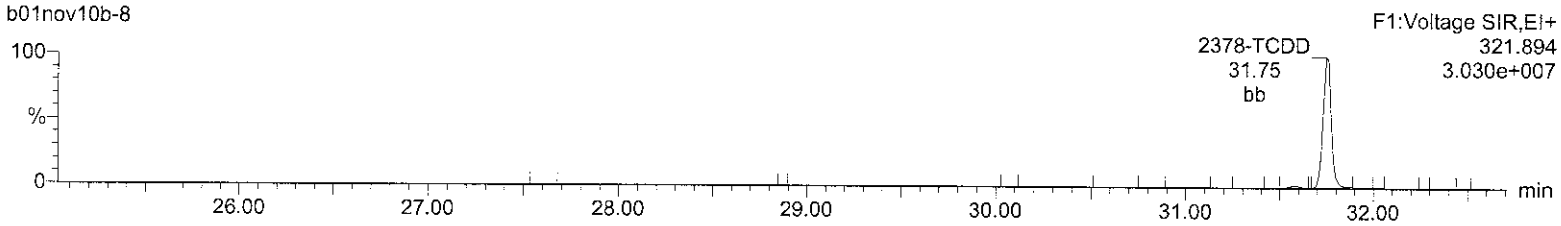
Last Altered: Tuesday, November 02, 2010 08:16:46 Eastern Standard Time
Printed: Tuesday, November 02, 2010 08:17:27 Eastern Standard Time

Name: b01nov10b-8, Date: 01-Nov-2010, Time: 23:18:22, ID: CS5 UD090323-06, Description: , Job: b01nov10b, Task: HRP763_1, User: MJC

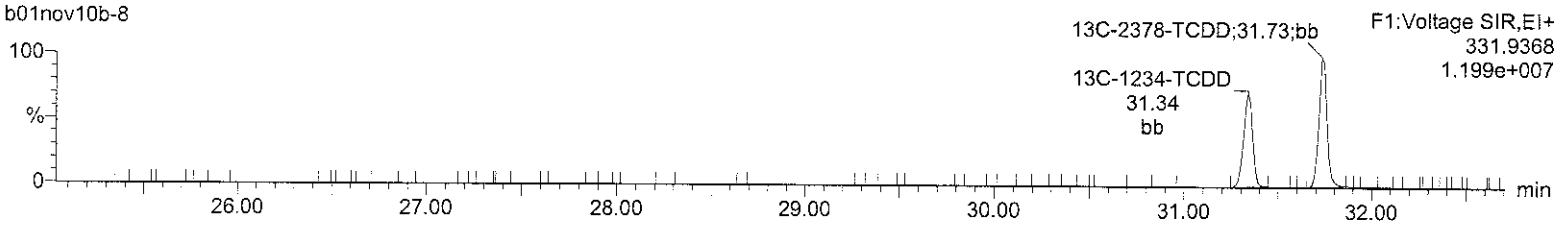
Total-tetradioxins



Total-tetradioxins



13C-2378-TCDD



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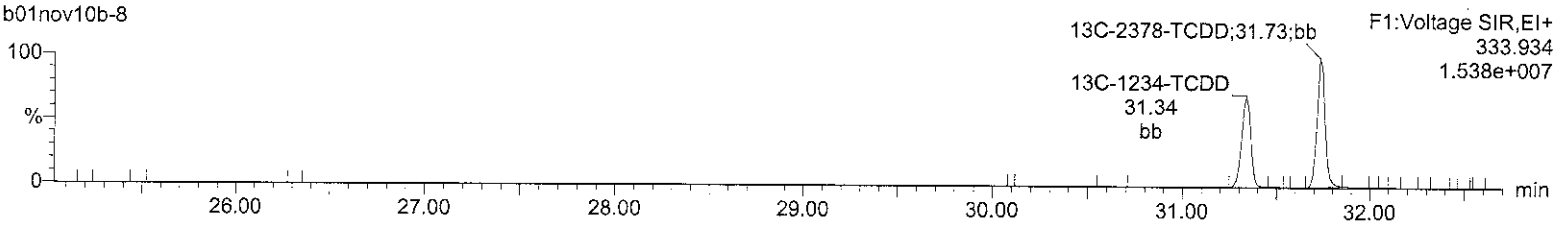
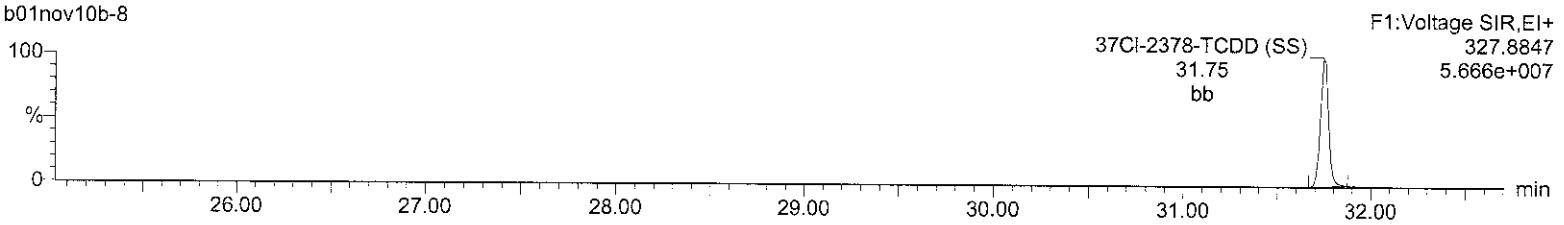
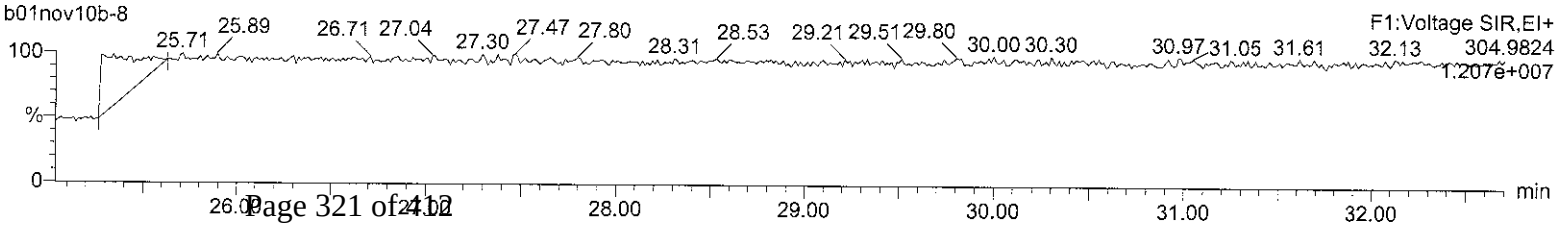


37Cl-2378-TCDD (SS)



Lock Mass F1



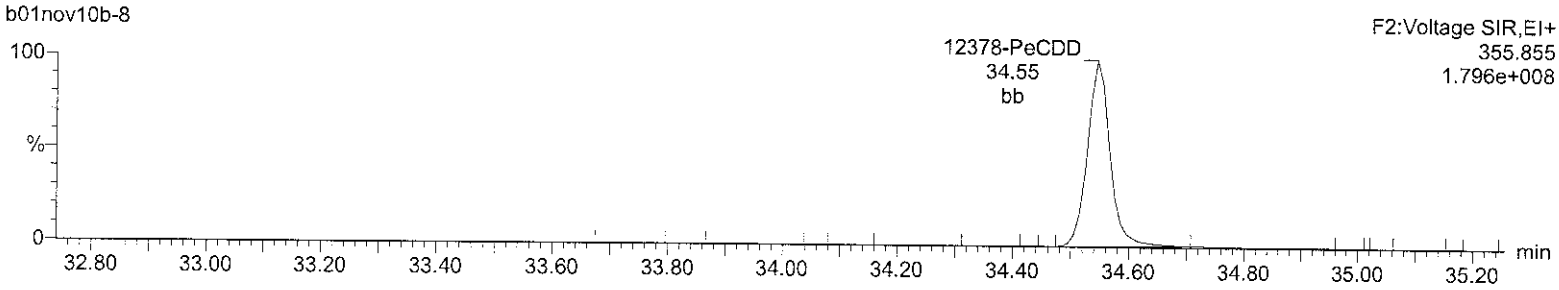
Quantify Sample Report **MassLynx 4.1**
Method 8290 ICAL Report

Dataset: C:\MassLynx\Default.pro\ICAL Results\8290-b01nov10b.qld

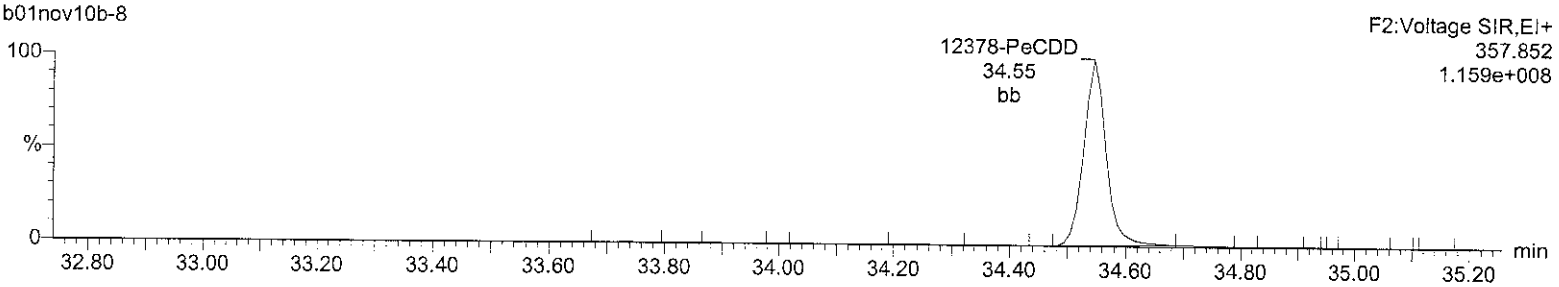
Last Altered: Tuesday, November 02, 2010 08:16:46 Eastern Standard Time
Printed: Tuesday, November 02, 2010 08:17:27 Eastern Standard Time

Name: b01nov10b-8, Date: 01-Nov-2010, Time: 23:18:22, ID: CS5 UD090323-06, Description: , Job: b01nov10b, Task: HRP763_1, User: MJC

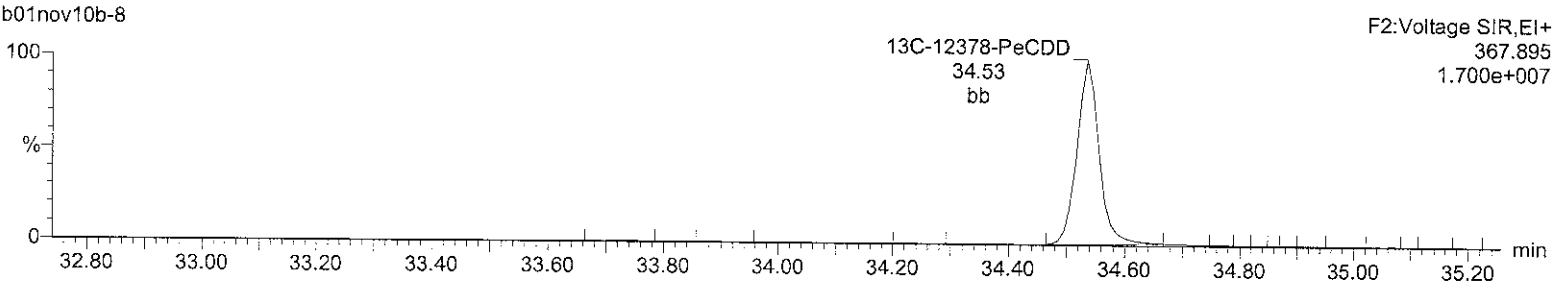
Total-pentadioxins
b01nov10b-8



Total-pentadioxins
b01nov10b-8



13C-12378-PeCDD
b01nov10b-8



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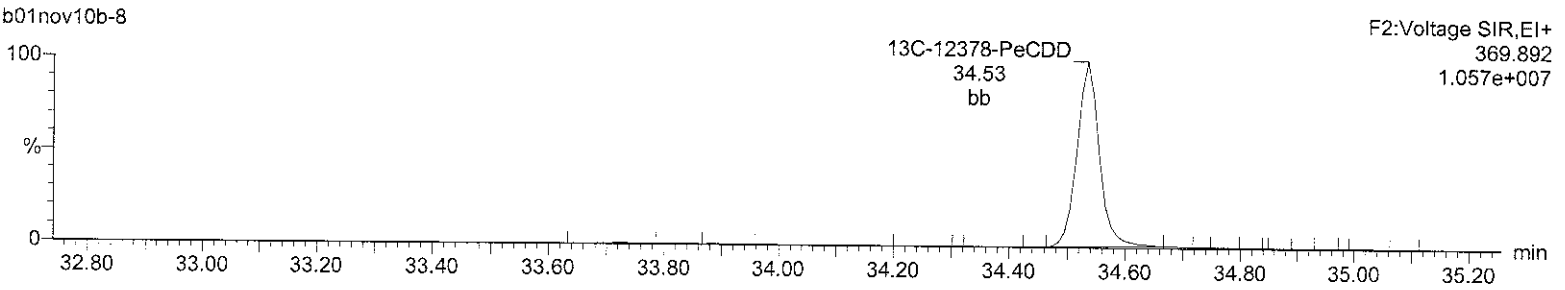
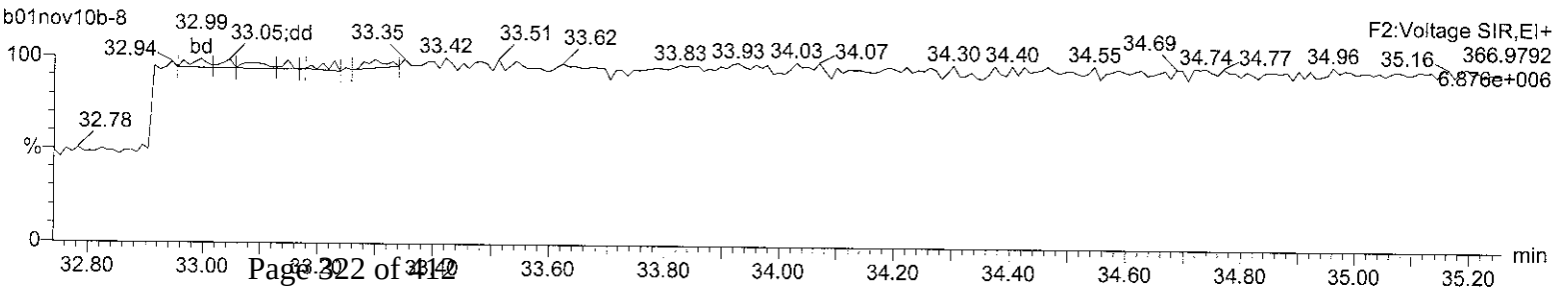
b01nov10b-8



Lock Mass F2
b01nov10b-8



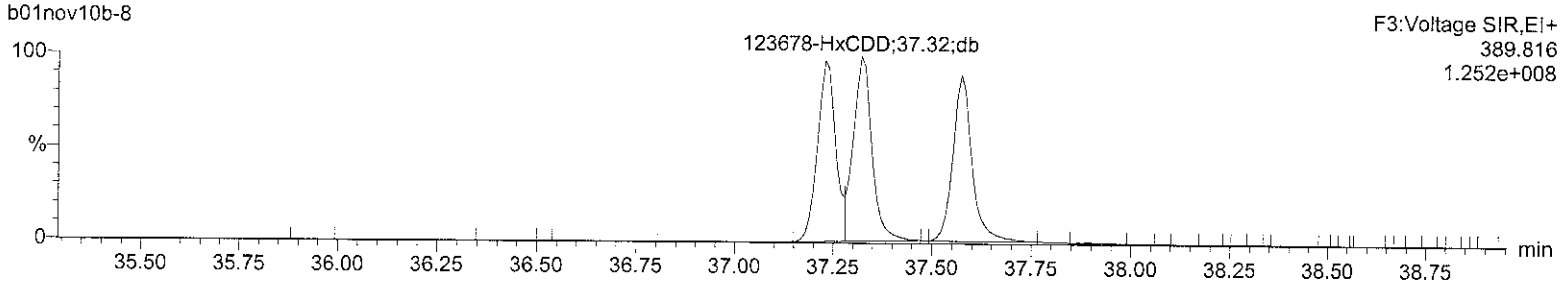
Quantify Sample Report **MassLynx 4.1**
Method 8290 ICAL Report

Dataset: C:\MassLynx\Default.pro\ICAL Results\8290-b01nov10b.qld

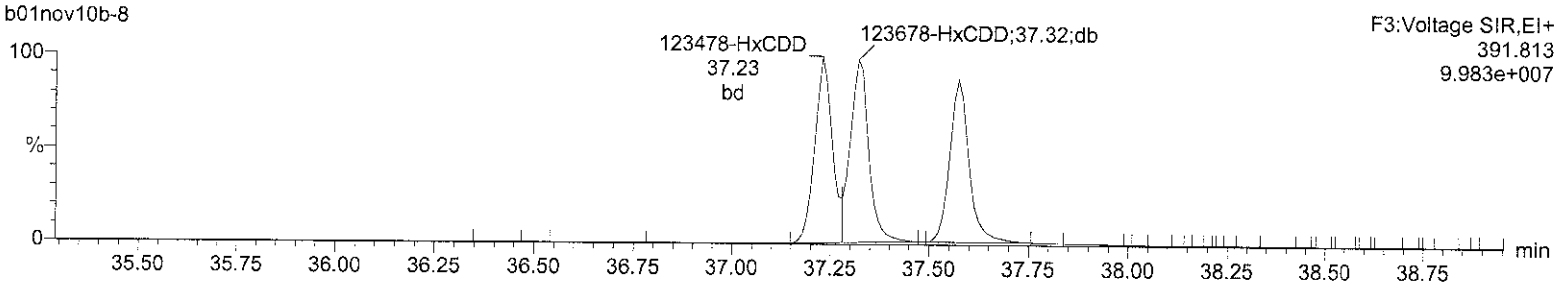
Last Altered: Tuesday, November 02, 2010 08:16:46 Eastern Standard Time
Printed: Tuesday, November 02, 2010 08:17:27 Eastern Standard Time

Name: b01nov10b-8, Date: 01-Nov-2010, Time: 23:18:22, ID: CS5 UD090323-06, Description: , Job: b01nov10b, Task: HRP763_1, User: MJC

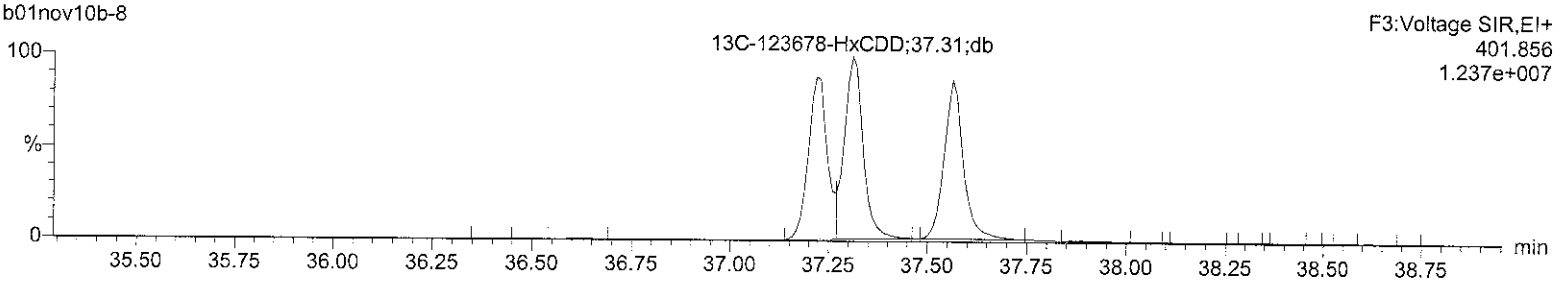
Total-hexadioxins
b01nov10b-8



Total-hexadioxins
b01nov10b-8



13C-123678-HxCDD
b01nov10b-8



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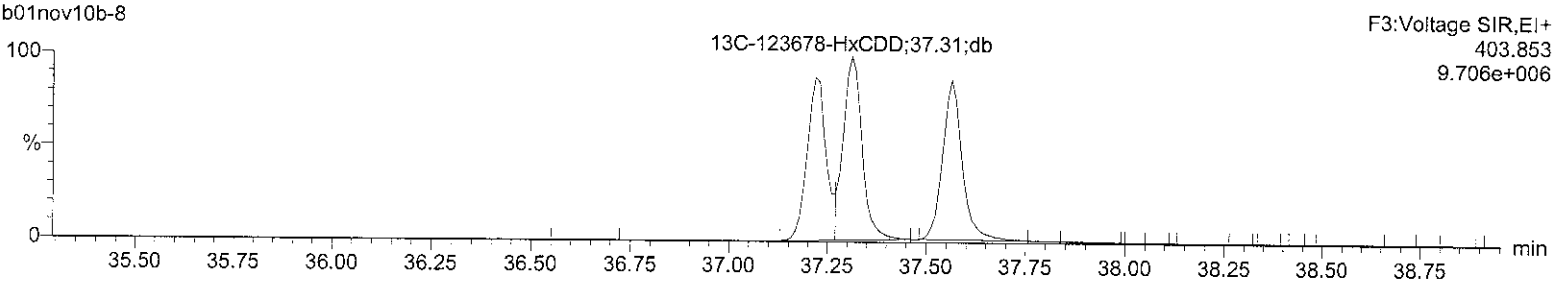
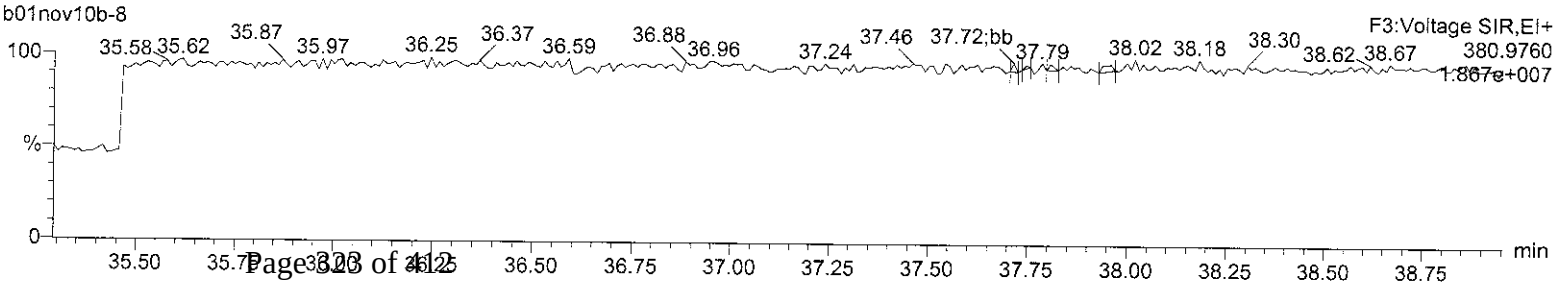
b01nov10b-8



Lock Mass F3
b01nov10b-8



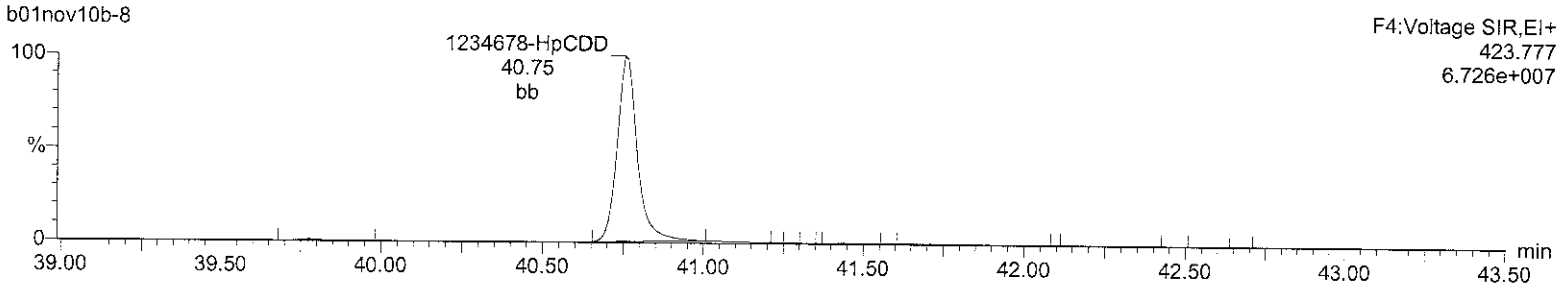
Quantify Sample Report **MassLynx 4.1**
Method 8290 ICAL Report

Dataset: C:\MassLynx\Default.pro\ICAL Results\8290-b01nov10b.qld

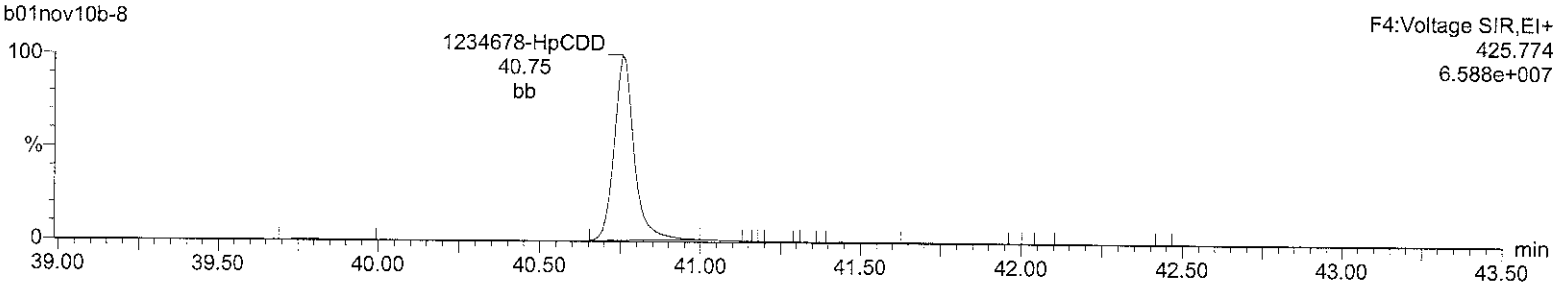
Last Altered: Tuesday, November 02, 2010 08:16:46 Eastern Standard Time
Printed: Tuesday, November 02, 2010 08:17:27 Eastern Standard Time

Name: b01nov10b-8, Date: 01-Nov-2010, Time: 23:18:22, ID: CS5 UD090323-06, Description: , Job: b01nov10b, Task: HRP763_1, User: MJC

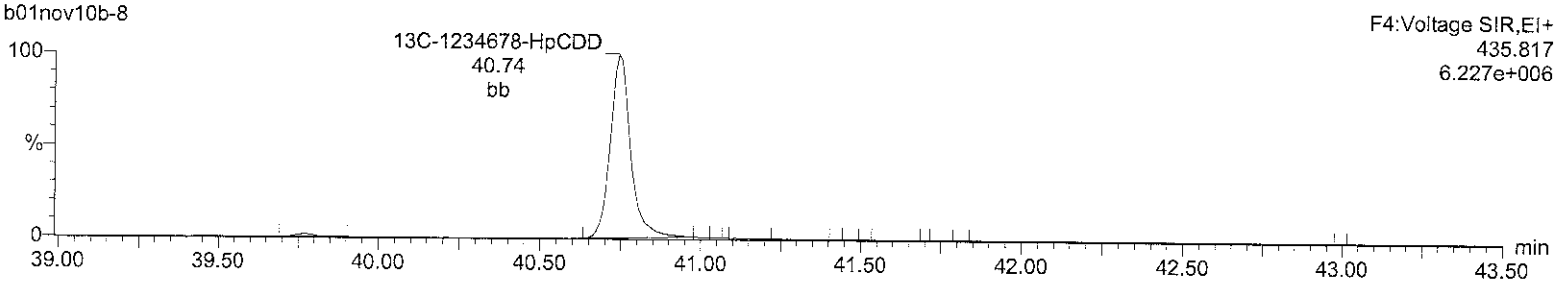
Total-heptadioxins



Total-heptadioxins



13C-1234678-HpCDD



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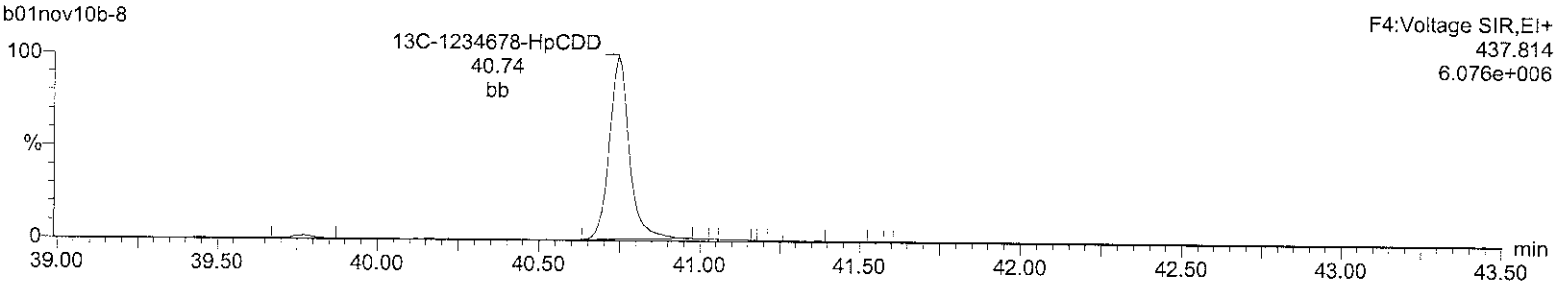
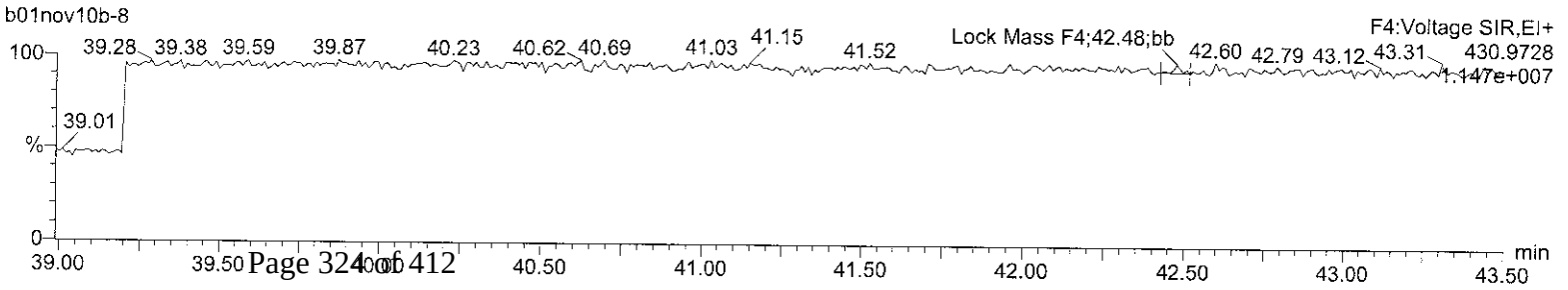


Lock Mass F4



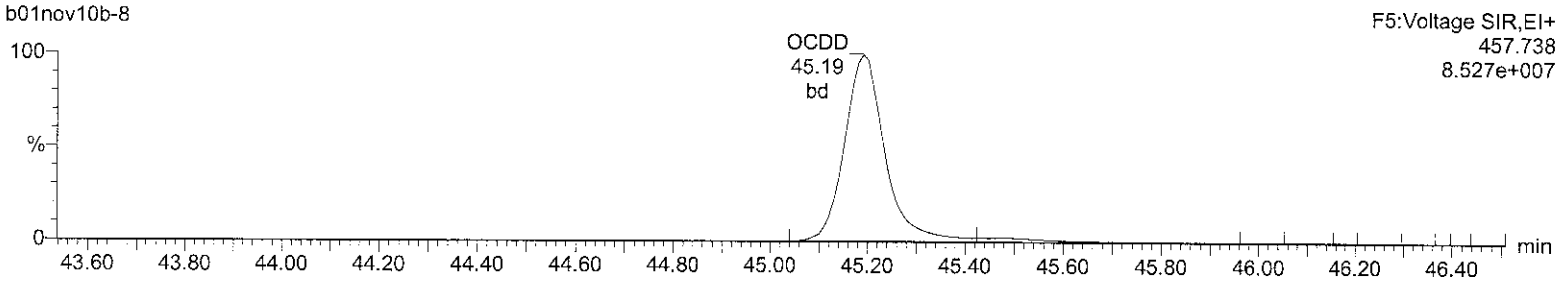
Quantify Sample Report **MassLynx 4.1**
Method 8290 ICAL Report

Dataset: C:\MassLynx\Default.pro\ICAL Results\8290-b01nov10b.qld

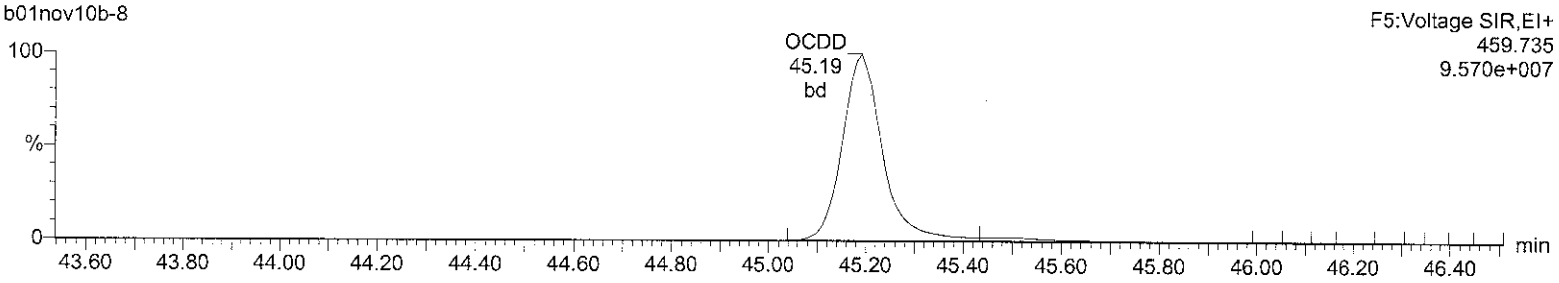
Last Altered: Tuesday, November 02, 2010 08:16:46 Eastern Standard Time
Printed: Tuesday, November 02, 2010 08:17:27 Eastern Standard Time

Name: b01nov10b-8, Date: 01-Nov-2010, Time: 23:18:22, ID: CS5 UD090323-06, Description: , Job: b01nov10b, Task: HRP763_1, User: MJC

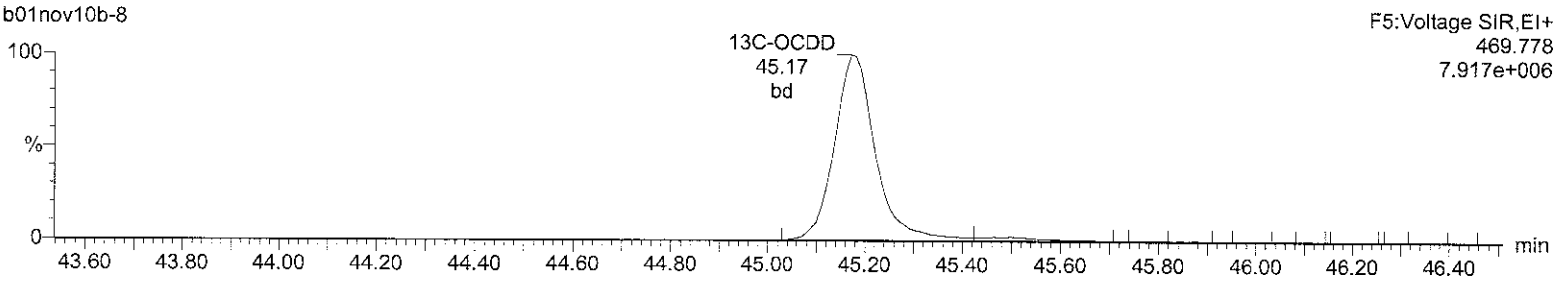
OCDD



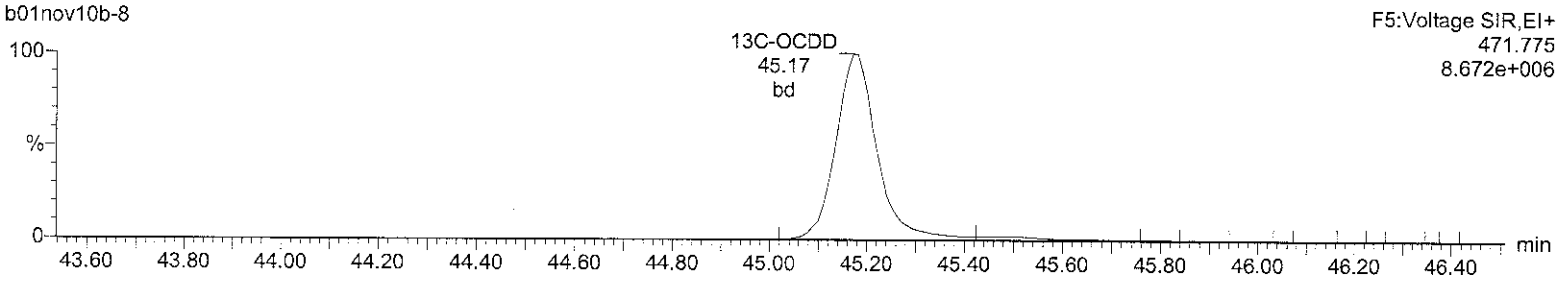
OCDD



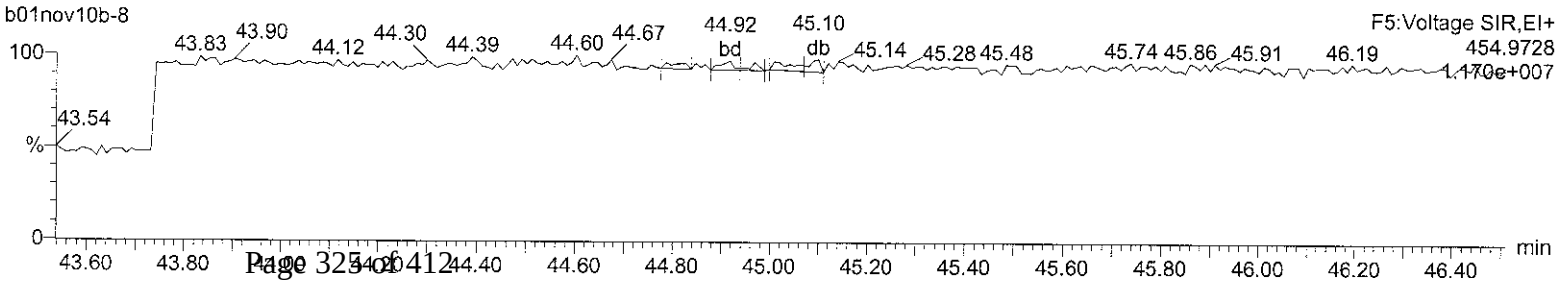
13C-OCDD



13C-OCDD



Lock Mass F5



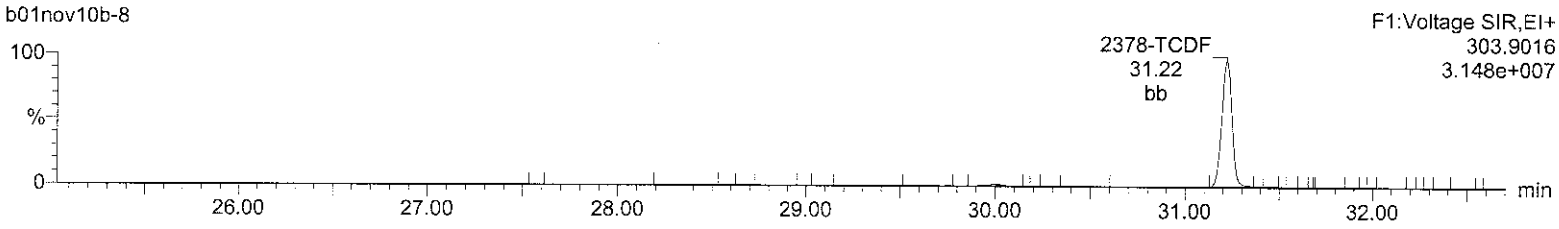
Quantify Sample Report **MassLynx 4.1**
Method 8290 ICAL Report

Dataset: C:\MassLynx\Default.pro\ICAL Results\8290-b01nov10b.qld

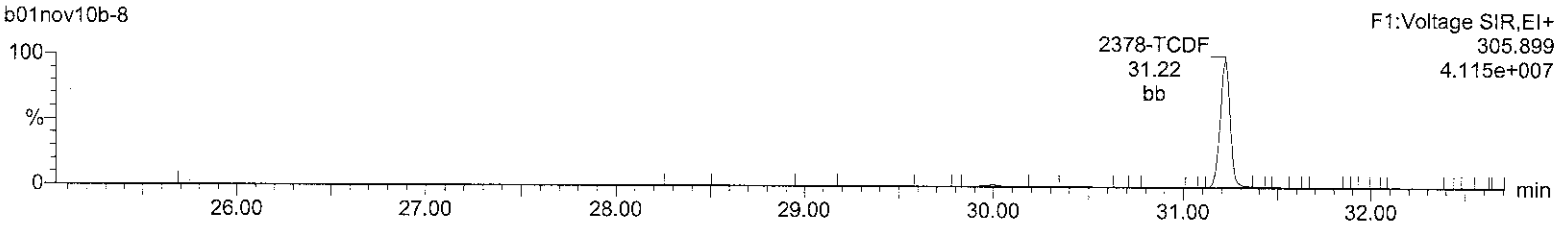
Last Altered: Tuesday, November 02, 2010 08:16:46 Eastern Standard Time
Printed: Tuesday, November 02, 2010 08:17:27 Eastern Standard Time

Name: b01nov10b-8, Date: 01-Nov-2010, Time: 23:18:22, ID: CS5 UD090323-06, Description: , Job: b01nov10b, Task: HRP763_1, User: MJC

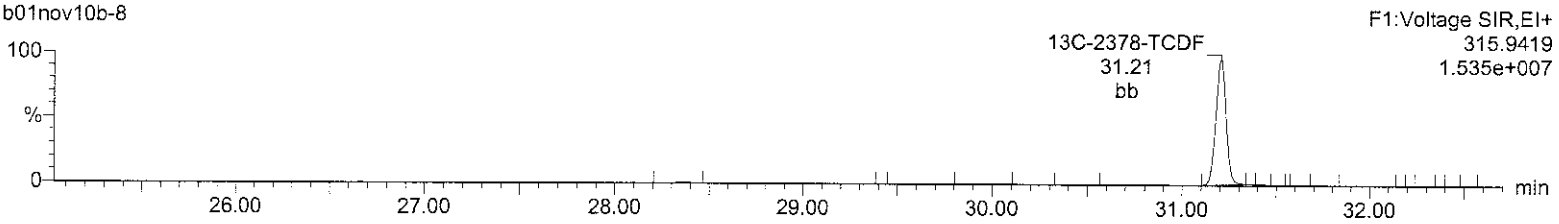
Total-tetrafurans



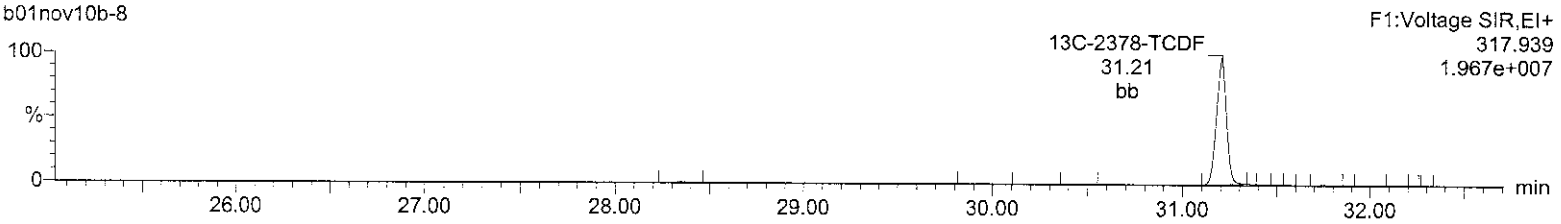
Total-tetrafurans



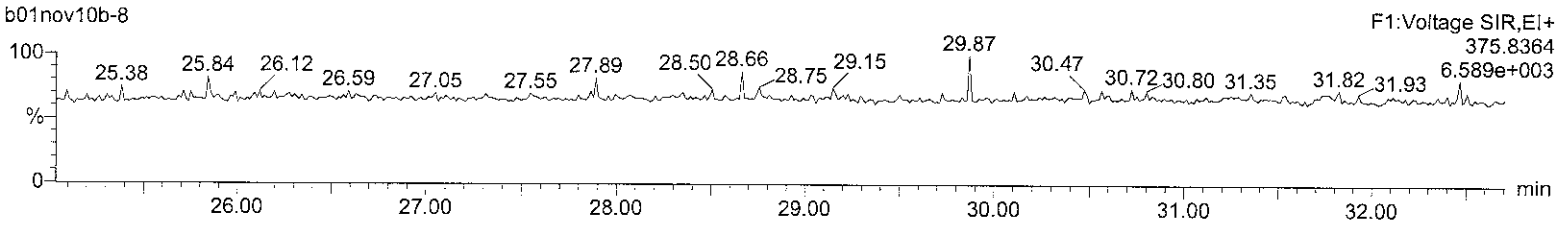
13C-2378-TCDF



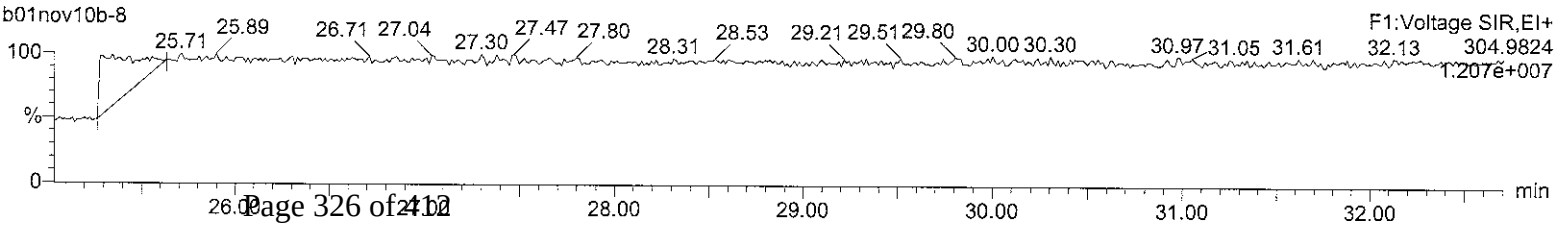
13C-2378-TCDF



HxDPE



Lock Mass F1



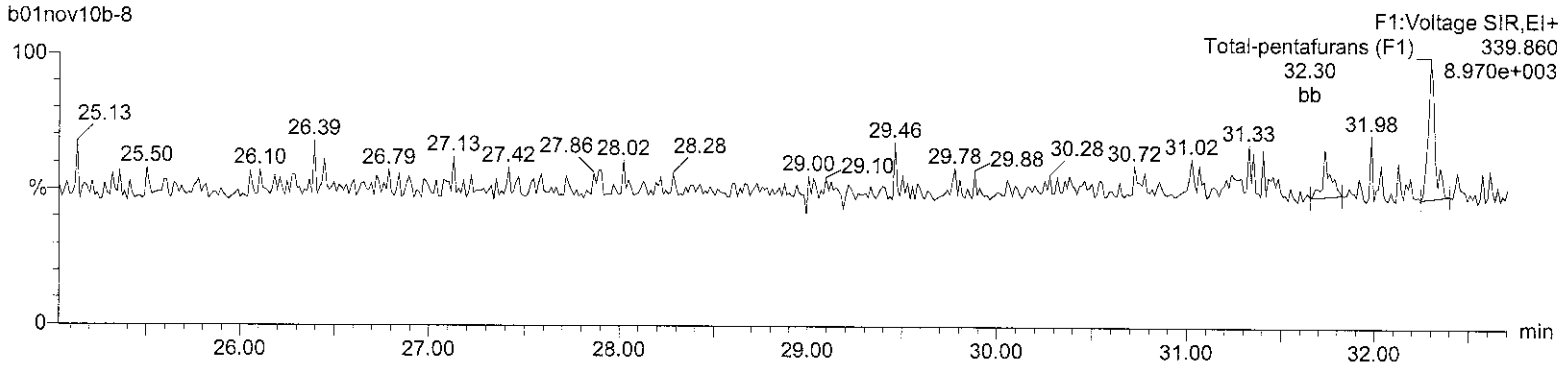
Quantify Sample Report **MassLynx 4.1**
Method 8290 ICAL Report

Dataset: C:\MassLynx\Default.pro\ICAL Results\8290-b01nov10b.qld

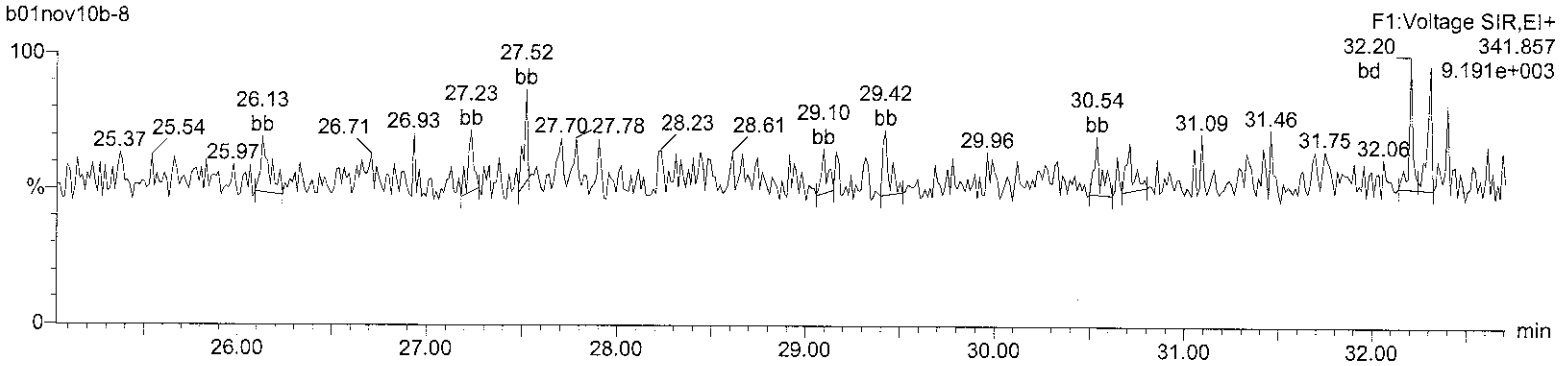
Last Altered: Tuesday, November 02, 2010 08:16:46 Eastern Standard Time
Printed: Tuesday, November 02, 2010 08:17:27 Eastern Standard Time

Name: b01nov10b-8, Date: 01-Nov-2010, Time: 23:18:22, ID: CS5 UD090323-06, Description: , Job: b01nov10b, Task: HRP763_1, User: MJC

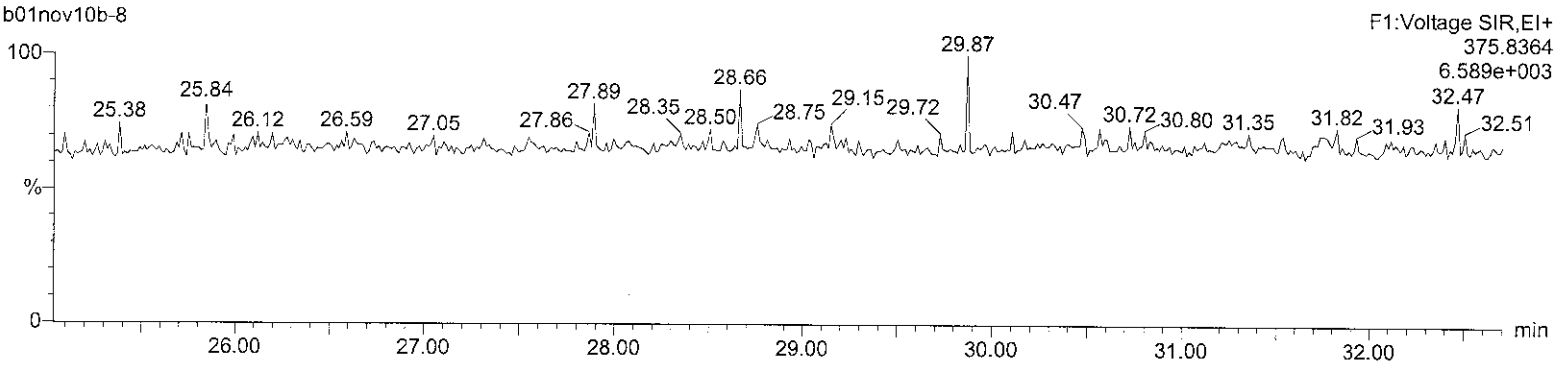
Total-pentafurans (F1)



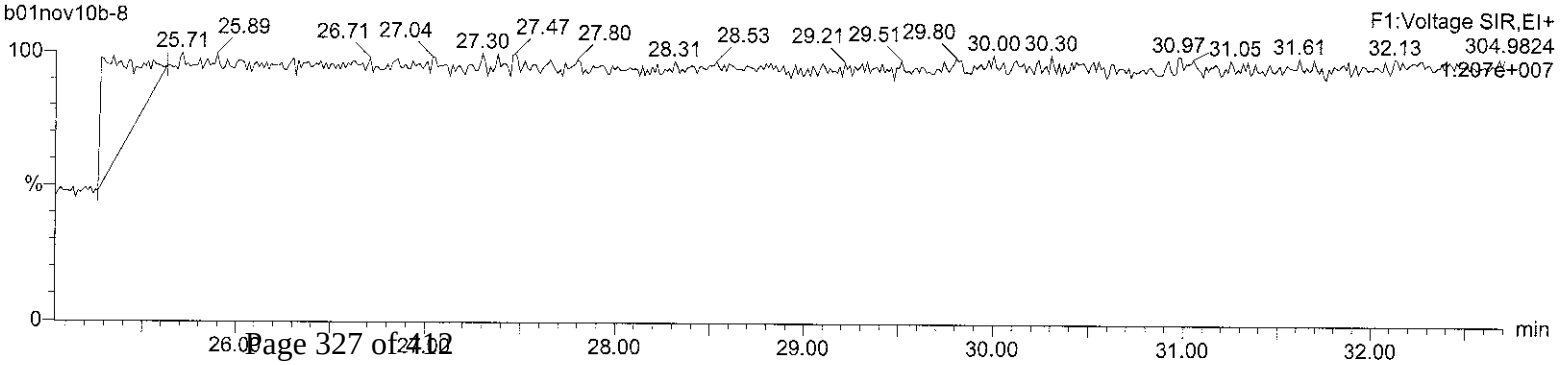
Total-pentafurans (F1)



HxDPE



Lock Mass F1



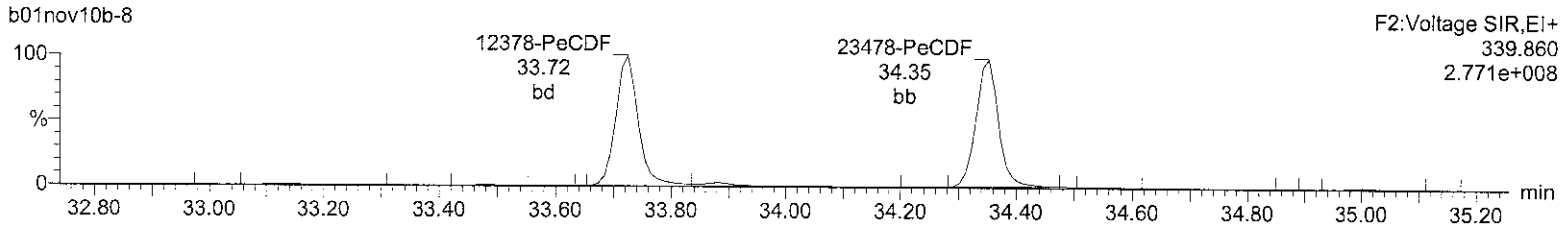
Quantify Sample Report **MassLynx 4.1**
Method 8290 ICAL Report

Dataset: C:\MassLynx\Default.pro\ICAL Results\8290-b01nov10b.qld

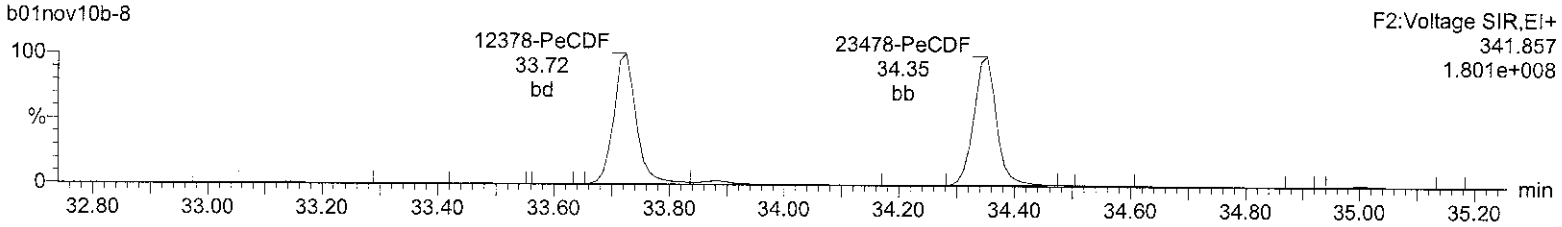
Last Altered: Tuesday, November 02, 2010 08:16:46 Eastern Standard Time
Printed: Tuesday, November 02, 2010 08:17:27 Eastern Standard Time

Name: b01nov10b-8, Date: 01-Nov-2010, Time: 23:18:22, ID: CS5 UD090323-06, Description: , Job: b01nov10b, Task: HRP763_1, User: MJC

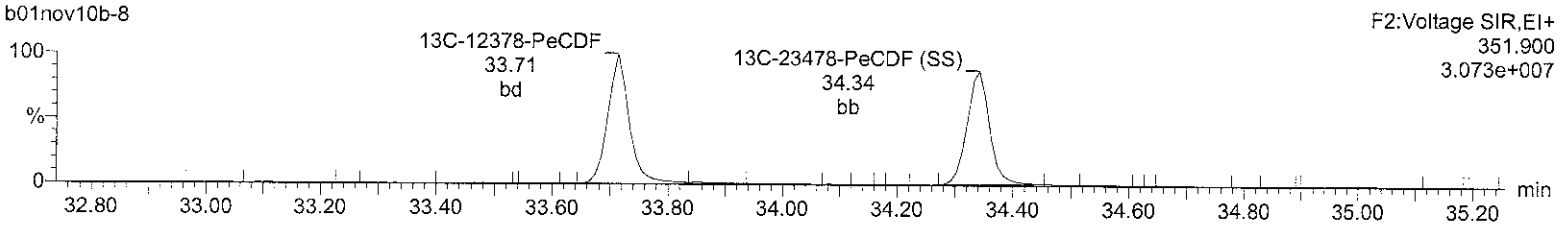
Total-pentafurans



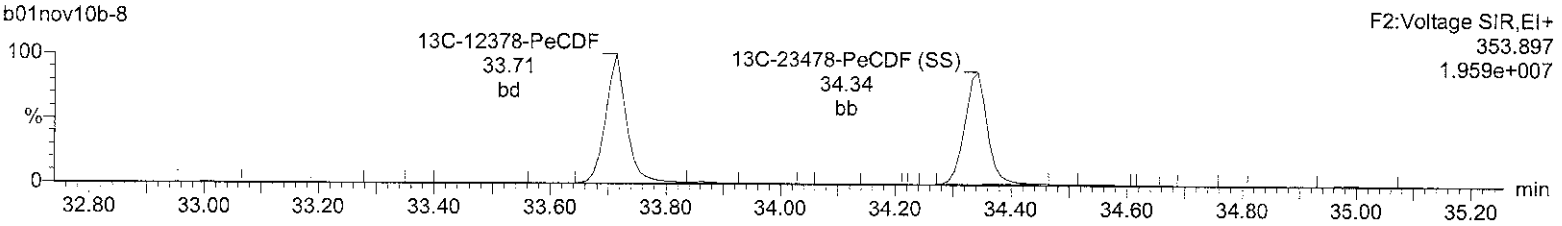
Total-pentafurans



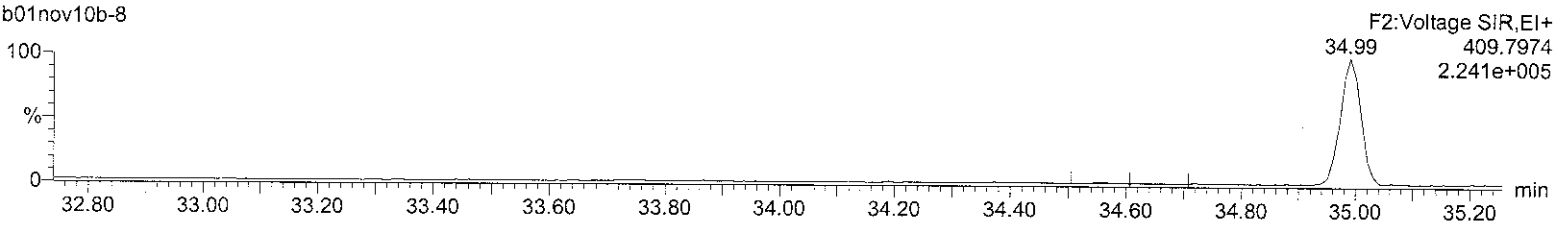
13C-12378-PeCDF



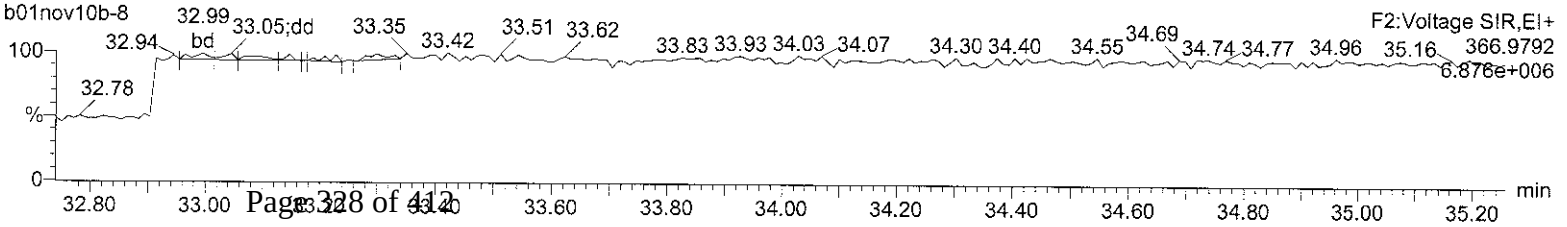
13C-12378-PeCDF



HpDPE



Lock Mass F2



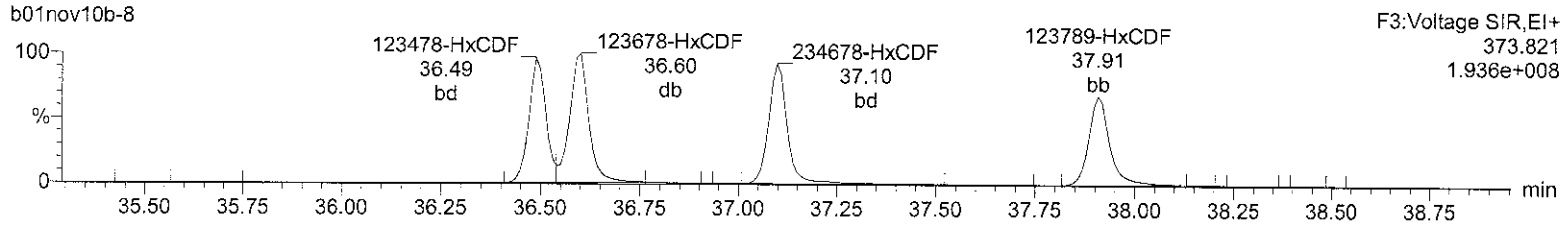
Quantify Sample Report **MassLynx 4.1**
Method 8290 ICAL Report

Dataset: C:\MassLynx\Default.pro\ICAL Results\8290-b01nov10b.qld

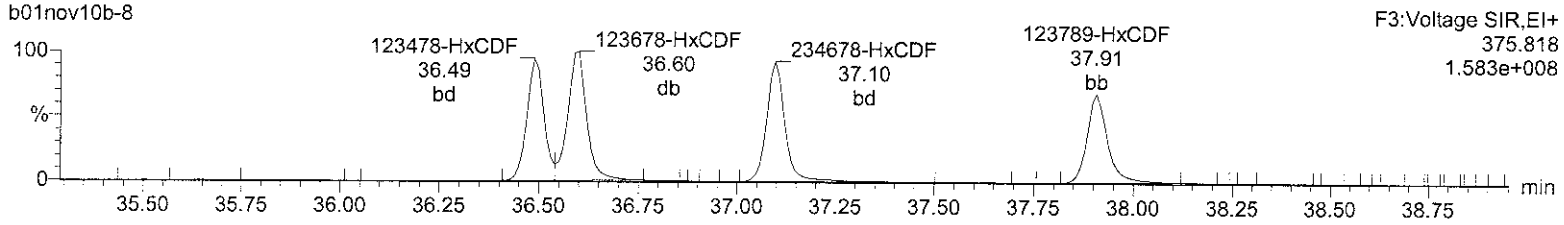
Last Altered: Tuesday, November 02, 2010 08:16:46 Eastern Standard Time
Printed: Tuesday, November 02, 2010 08:17:27 Eastern Standard Time

Name: b01nov10b-8, Date: 01-Nov-2010, Time: 23:18:22, ID: CS5 UD090323-06, Description: , Job: b01nov10b, Task: HRP763_1, User: MJC

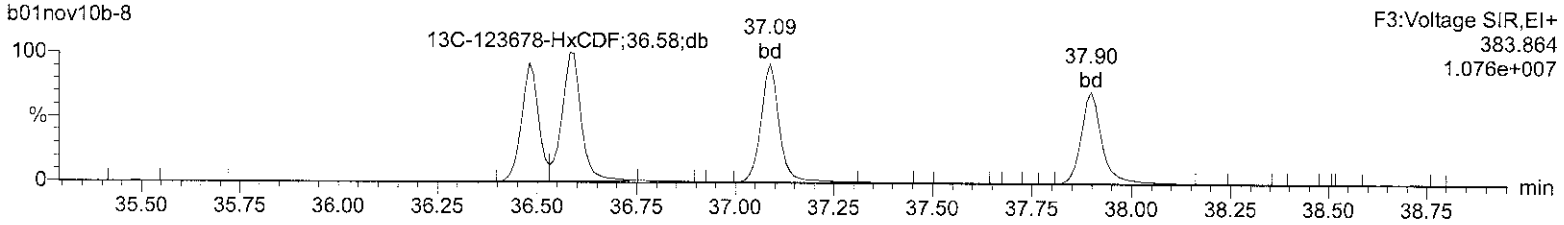
Total-hexafurans



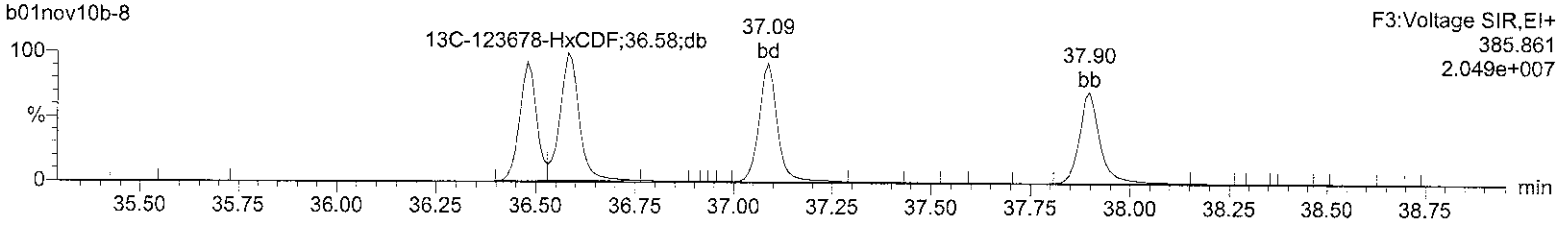
Total-hexafurans



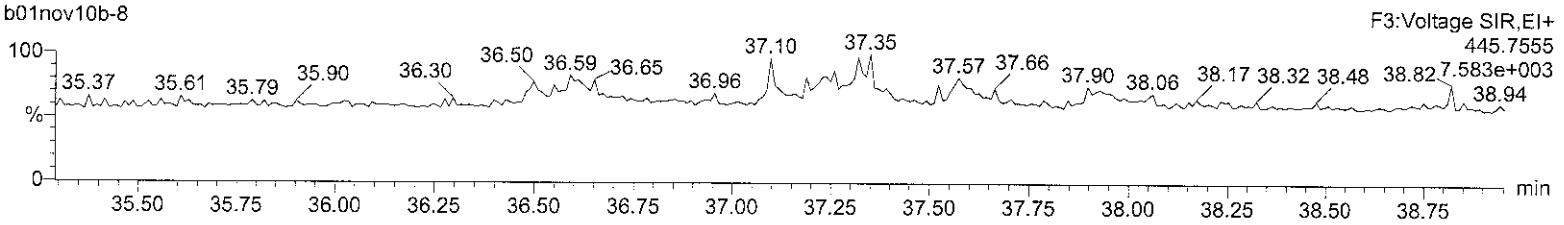
13C-123678-HxCDF



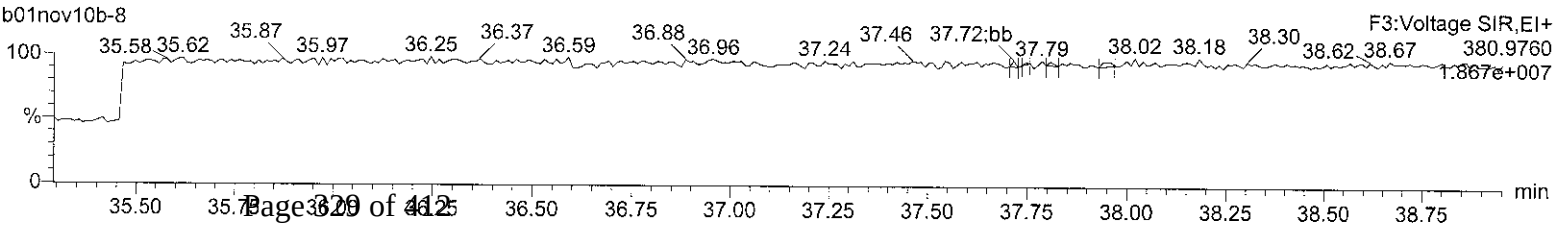
13C-123678-HxCDF



OcDPE



Lock Mass F3



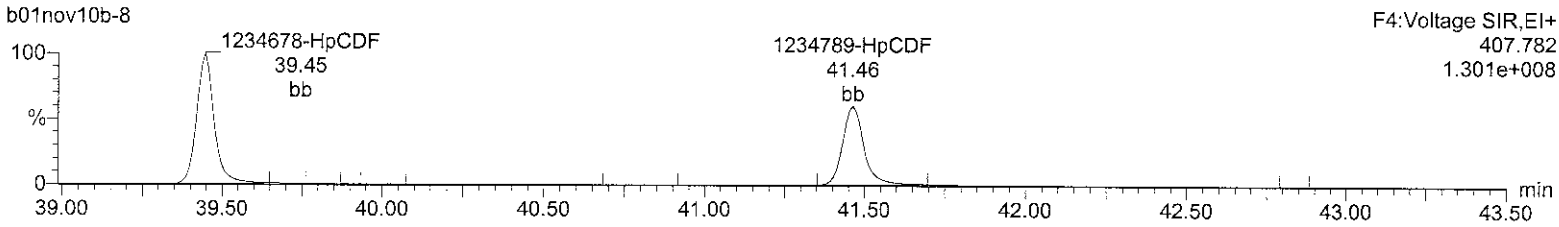
Quantify Sample Report **MassLynx 4.1**
Method 8290 ICAL Report

Dataset: C:\MassLynx\Default.pro\ICAL Results\8290-b01nov10b.qld

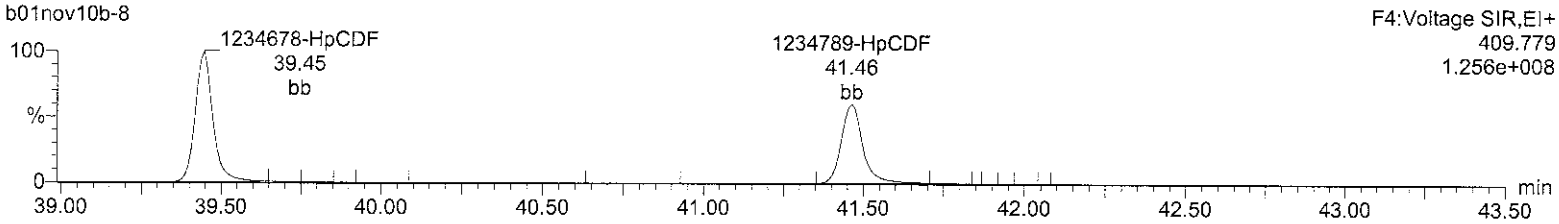
Last Altered: Tuesday, November 02, 2010 08:16:46 Eastern Standard Time
Printed: Tuesday, November 02, 2010 08:17:27 Eastern Standard Time

Name: b01nov10b-8, Date: 01-Nov-2010, Time: 23:18:22, ID: CS5 UD090323-06, Description: , Job: b01nov10b, Task: HRP763_1, User: MJC

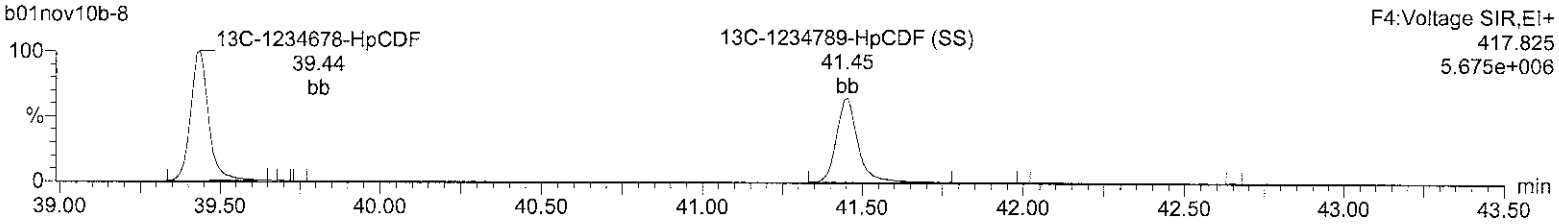
Total-heptafurans



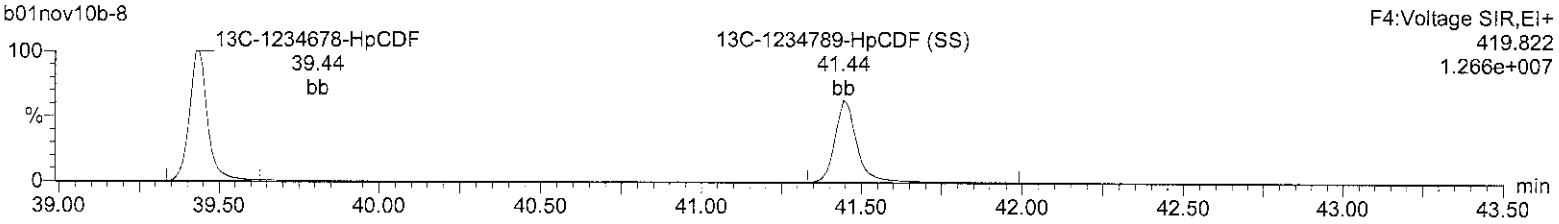
Total-heptafurans



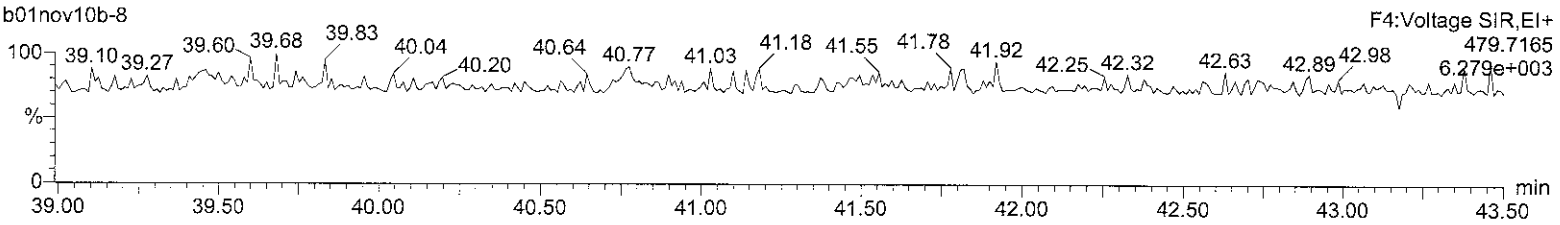
13C-1234678-HpCDF



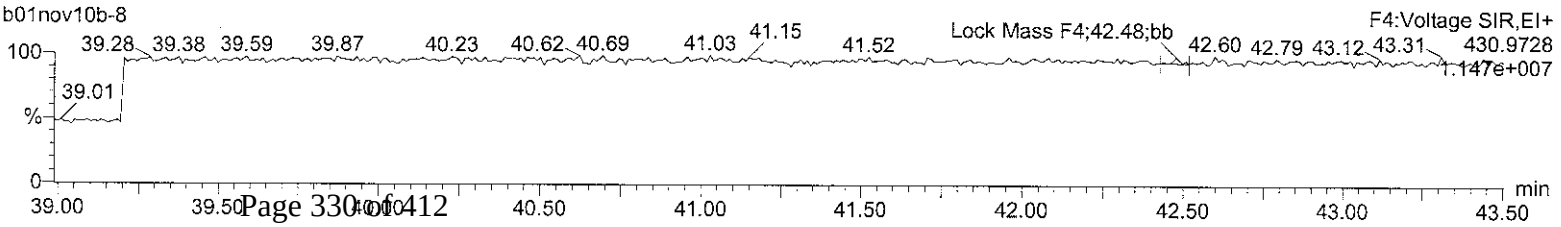
13C-1234678-HpCDF



NoDPE



Lock Mass F4



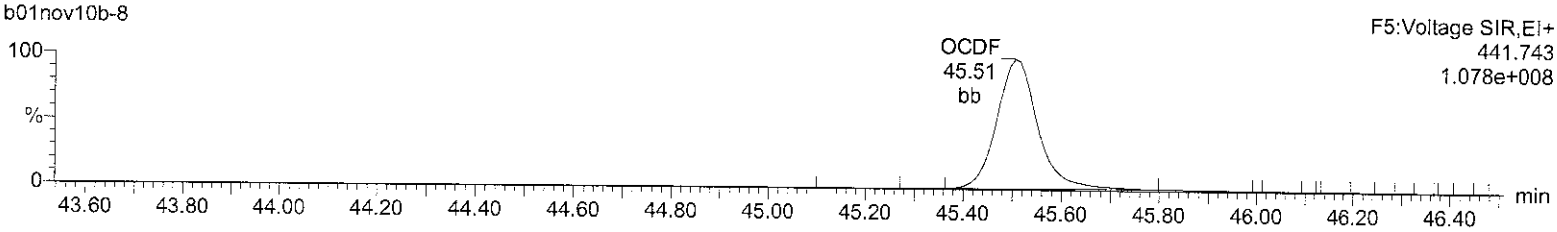
Quantify Sample Report **MassLynx 4.1**
Method 8290 ICAL Report

Dataset: C:\MassLynx\Default.pro\ICAL Results\8290-b01nov10b.qld

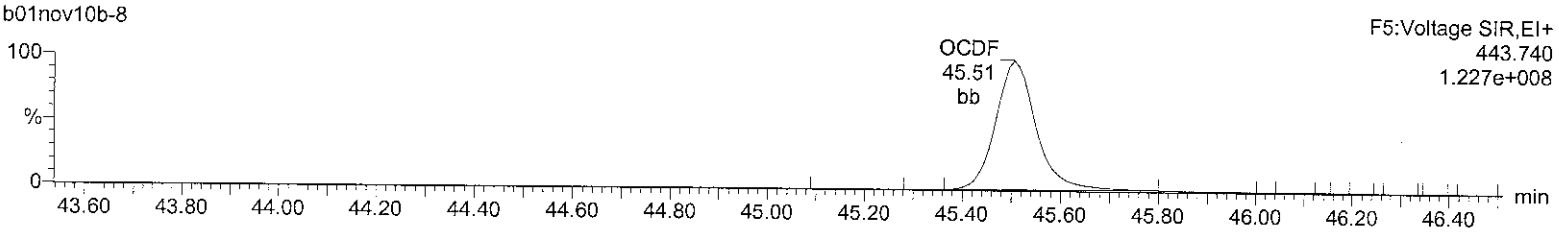
Last Altered: Tuesday, November 02, 2010 08:16:46 Eastern Standard Time
Printed: Tuesday, November 02, 2010 08:17:27 Eastern Standard Time

Name: b01nov10b-8, Date: 01-Nov-2010, Time: 23:18:22, ID: CS5 UD090323-06, Description: , Job: b01nov10b, Task: HRP763_1, User: MJC

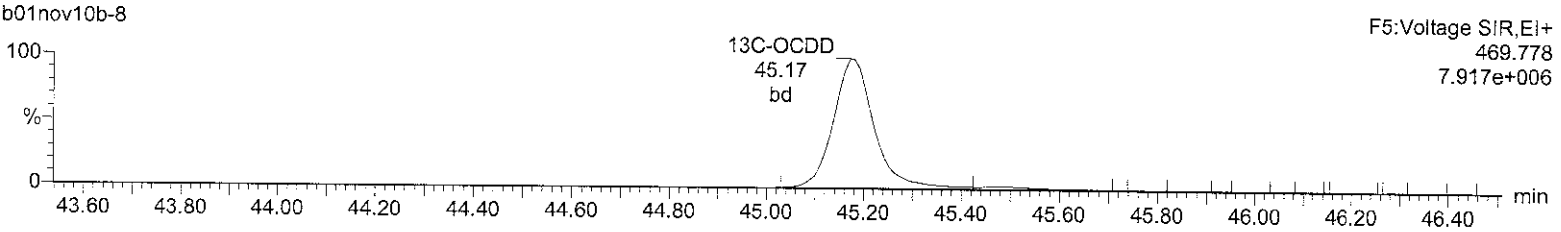
OCDF
b01nov10b-8



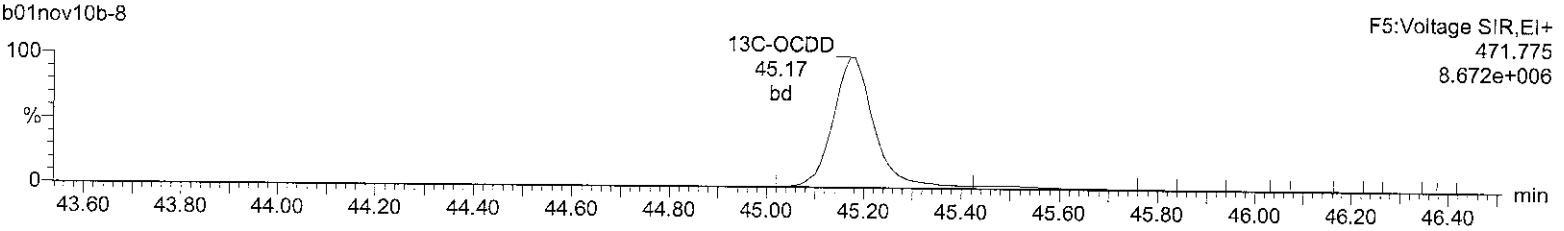
OCDF
b01nov10b-8



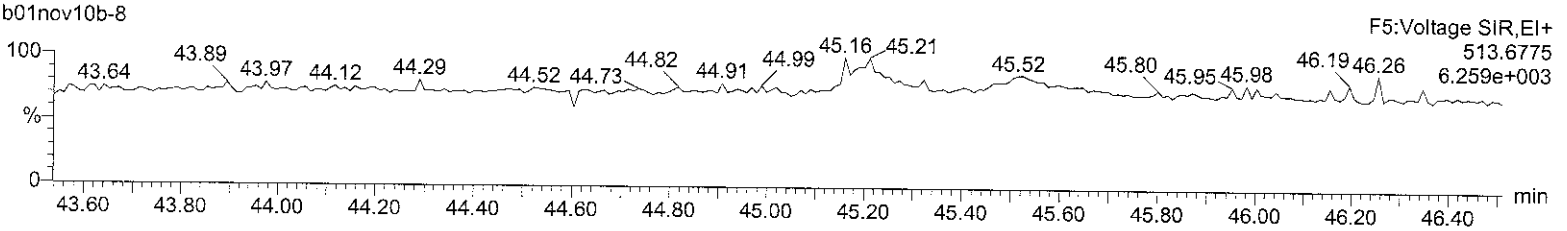
13C-OCDD
b01nov10b-8



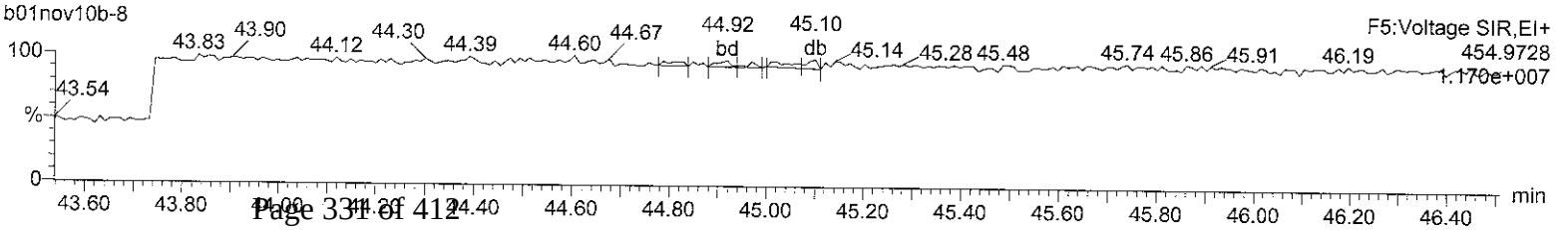
13C-OCDD
b01nov10b-8



DeDPE
b01nov10b-8



Lock Mass F5
b01nov10b-8



Continuing Calibration Data

HMP
11Oct11

Runlog Information

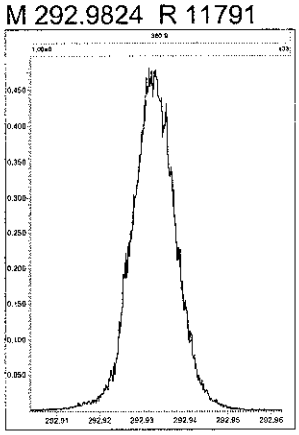
	Name	Instrument	Run Date	Procedure	Analyst	Batch ID	Sample Info	Injection Volume
•	b10oct11a-1	HRP763_1	10-OCT-2011 13:19	b10oct11a	Matt Cash		CS3WT UD110629-01.1	1 uL
•	b10oct11a-2	HRP763_1	10-OCT-2011 14:05	HMS8290_1S	Matt Cash	19680	12004340-1 LCS	1 uL
•	b10oct11a-3	HRP763_1	10-OCT-2011 14:49	HMS8290_1S	Matt Cash	19680	12004341-1 LCSD	1 uL
•	b10oct11a-4	HRP763_1	10-OCT-2011 15:33	HMS8290_1S	Matt Cash	19680	12004342-1 MB	1 uL
•	b10oct11a-5	HRP763_1	10-OCT-2011 16:18	HMS8290_1S	Matt Cash	19680	2818001-1	1 uL
•	b10oct11a-6	HRP763_1	10-OCT-2011 17:03	HMS8290_1S	Matt Cash	19680	12004343-1 MS	1 uL
•	b10oct11a-7	HRP763_1	10-OCT-2011 17:47	HMS8290_1S	Matt Cash	19680	12004344-1 MSD	1 uL
•	b10oct11a-8	HRP763_1	10-OCT-2011 18:32	HMS8290_1S	Matt Cash	19680	2818003-1	1 uL
•	b10oct11a-9	HRP763_1	10-OCT-2011 19:17	HMS8290_1S	Matt Cash	19680	2822002-1 x10	1 uL
•	b10oct11a-10	HRP763_1	10-OCT-2011 20:01	HMS8290_1S	Matt Cash	19680	2822003-1 x10	1 uL
•	b10oct11a-11	HRP763_1	10-OCT-2011 20:46	HMS8290_1S	Matt Cash	19680	2822005-1 x10	1 uL
•	b10oct11a-12	HRP763_1	10-OCT-2011 21:31	HMS8290_1S	Matt Cash	19680	2822004-1 x10	1 uL
•	b10oct11a-13	HRP763_1	10-OCT-2011 22:15	HMS8290_1S	Matt Cash	19680	2818002-1 x20	1 uL
•	b10oct11a-14	HRP763_1	10-OCT-2011 23:00	b10oct11a	Matt Cash		SB	1 uL
•	b10oct11a-15	HRP763_1	10-OCT-2011 23:44	b10oct11a	Matt Cash		CS3WT UD110629-01.1	1 uL
•	b10oct11a_2-1	HRP763_1	11-OCT-2011 00:37	HMS8290_1L	Matt Cash	19684	12004350-1 LCS	1 uL
	12004403-1 LCS 19685 HMS8290_1L; 12004350-1 LCS 19686 HMS8290TCL							
•	b10oct11a_2-2	HRP763_1	11-OCT-2011 01:21	HMS8290_1L	Matt Cash	19684	12004351-1 LCSD	1 uL
	12004404-1 LCSD 19685 HMS8290_1L; 12004351-1 LCSD 19686 HMS8290TCL							
•	b10oct11a_2-3	HRP763_1	11-OCT-2011 02:06	HMS8290_1L	Matt Cash	19684	12004352-1 MB	1 uL
	12004405-1 MB 19685 HMS8290_1L; 12004352-1 MB 19686 HMS8290TCL							
•	b10oct11a_2-4	HRP763_1	11-OCT-2011	HMS8290_1L	Matt	19684	2778001-1	1 uL

•	b10oct11a_2-4	HRP763_1	02:50	HMS8290_1L	Cash	19684	2778001-1	1 uL
•	b10oct11a_2-5	HRP763_1	11-OCT-2011 03:35	HMS8290_1L	Matt Cash	19684	2791001-1	1 uL
•	b10oct11a_2-6	HRP763_1	11-OCT-2011 04:20	HMS8290_1L	Matt Cash	19684	2798001-1	1 uL
•	b10oct11a_2-7	HRP763_1	11-OCT-2011 05:04	HMS8290_1L	Matt Cash	19685	2818004-1	1 uL
•	b10oct11a_2-8	HRP763_1	11-OCT-2011 05:49	HMS8290_1L	Matt Cash	19685	2822001-1	1 uL
•	b10oct11a_2-9	HRP763_1	11-OCT-2011 06:34	HMS8290TCL	Matt Cash	19686	2825001-1	1 uL
•	b10oct11a_2-10	HRP763_1	11-OCT-2011 07:18	HMSTO9AIRm	Matt Cash	19705	12004385-1 LCS	1 uL
•	b10oct11a_2-11	HRP763_1	11-OCT-2011 08:03	HMSTO9AIRm	Matt Cash	19705	12004386-1 LCSD	1 uL
•	b10oct11a_2-12	HRP763_1	11-OCT-2011 08:48	HMSTO9AIRm	Matt Cash	19705	12004387-1 MB	1 uL
•	b10oct11a_2-13	HRP763_1	11-OCT-2011 09:32	HMSTO9AIRm	Matt Cash	19705	2837001-1	1 uL
•	b10oct11a_2-14	HRP763_1	11-OCT-2011 10:17	b10oct11a_2	Matt Cash		CS3WT UD110629-01.1	1 uL
•	b10oct11a_3-1	HRP763_1	11-OCT-2011 11:10	HMS1613_1S	Matt Cash	19709	12004393-1 LCS	1 uL
•	b10oct11a_3-2	HRP763_1	11-OCT-2011 11:54	HMS1613_1S	Matt Cash	19709	12004394-1 LCSD	1 uL

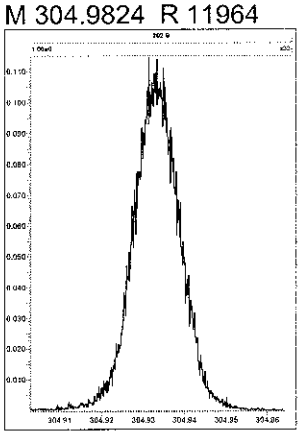
File: Experiment: dioxin_db5ms.exp Reference: pfk.ref Function: 1 @ 200 (ppm)

Printed: Monday, October 10, 2011 13:16:47 Eastern Standard Time

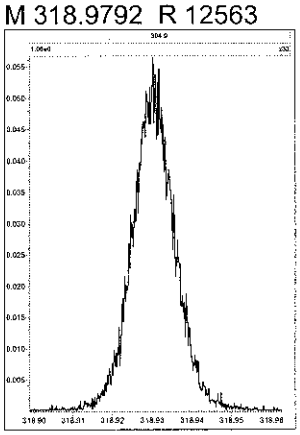
M 292.9824 R 11791



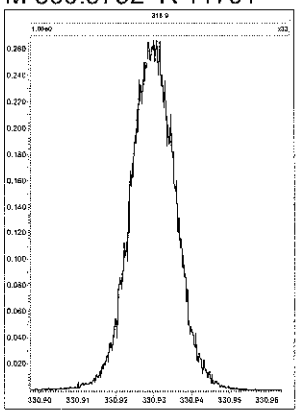
M 304.9824 R 11964



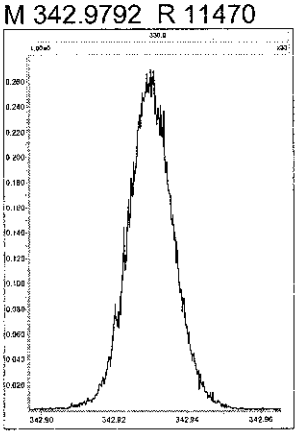
M 318.9792 R 12563



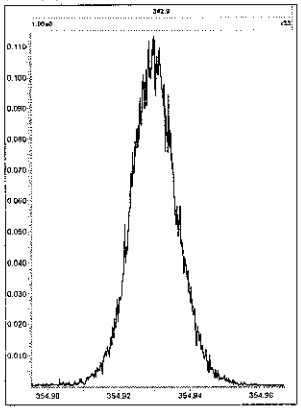
M 330.9792 R 11791



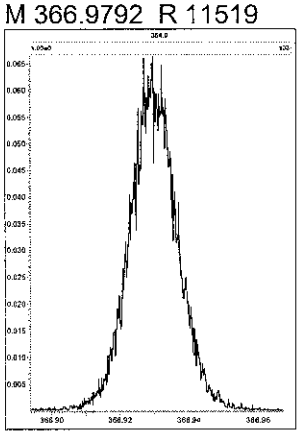
M 342.9792 R 11470



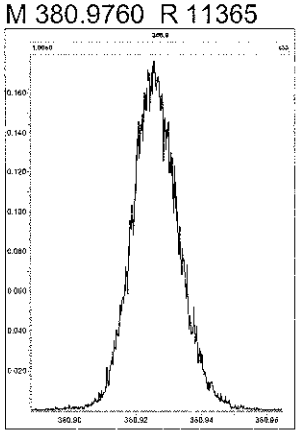
M 354.9792 R 11962



M 366.9792 R 11519



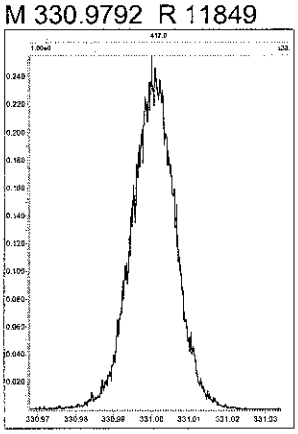
M 380.9760 R 11365



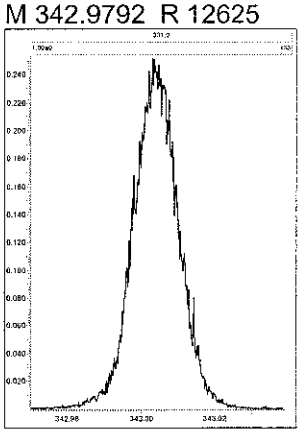
File: Experiment: dioxin_db5ms.exp Reference: pfk.ref Function: 2 @ 200 (ppm)

Printed: Monday, October 10, 2011 13:17:14 Eastern Standard Time

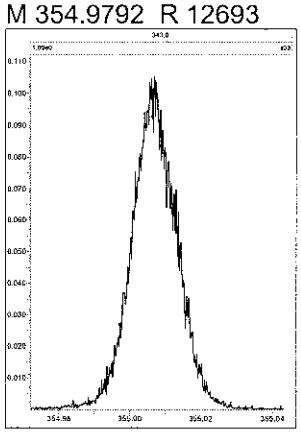
M 330.9792 R 11849



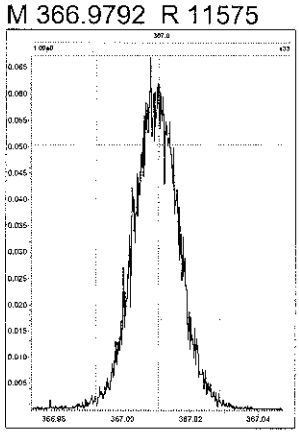
M 342.9792 R 12625



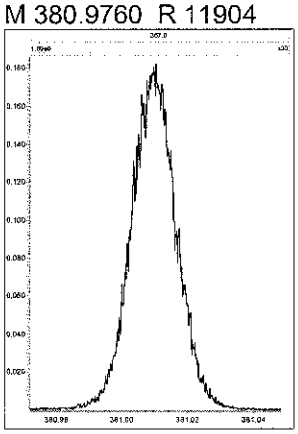
M 354.9792 R 12693



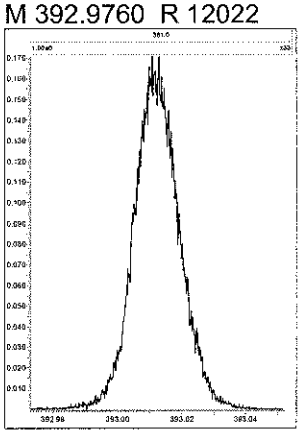
M 366.9792 R 11575



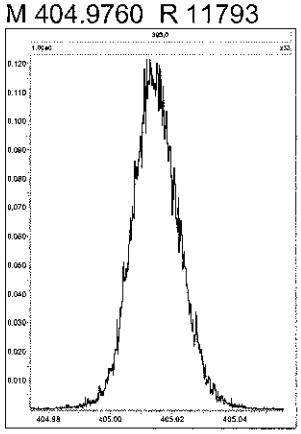
M 380.9760 R 11904



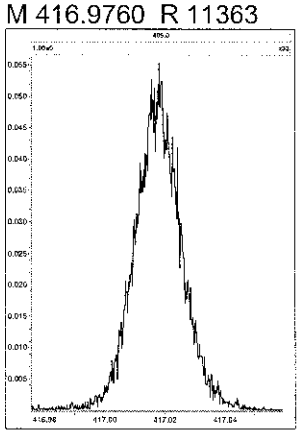
M 392.9760 R 12022



M 404.9760 R 11793



M 416.9760 R 11363



File: Experiment: dioxin_db5ms.exp Reference: pfk.ref Function: 3 @ 200 (ppm)

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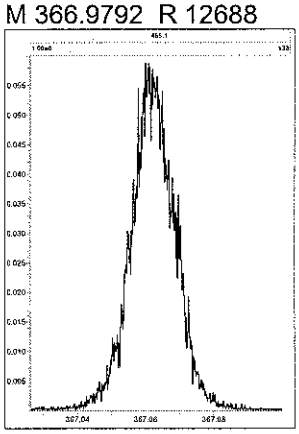
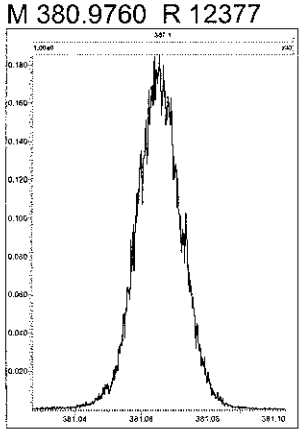
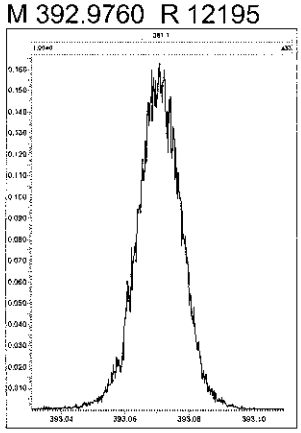
M 366.9792 R 12688



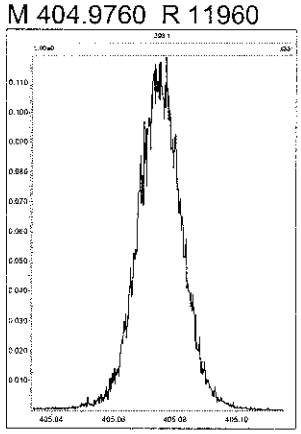
M 380.9760 R 12377



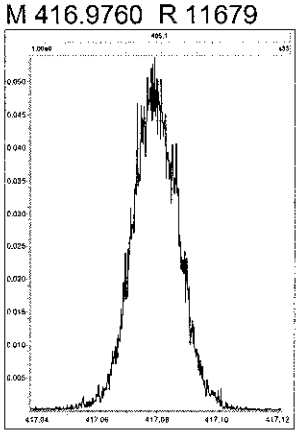
M 392.9760 R 12195



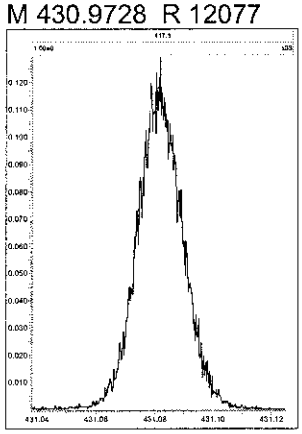
M 404.9760 R 11960



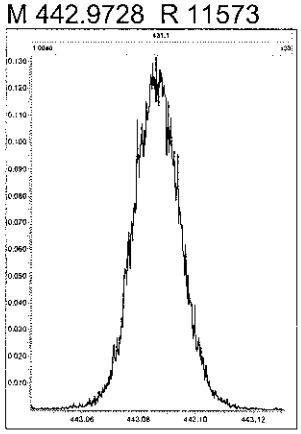
M 416.9760 R 11679



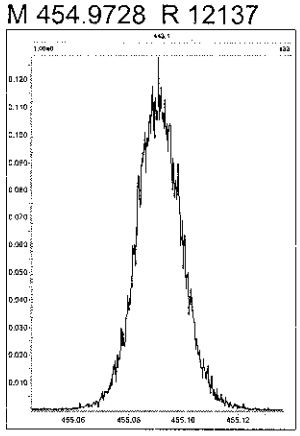
M 430.9728 R 12077



M 442.9728 R 11573



M 454.9728 R 12137



File: Experiment: dioxin_db5ms.exp Reference: pfk.ref Function: 4 @ 200 (ppm)

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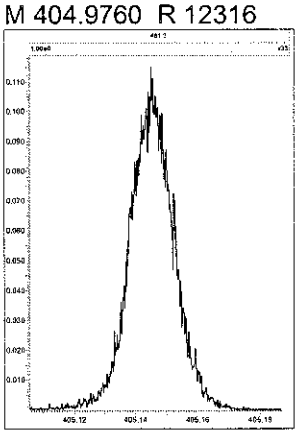
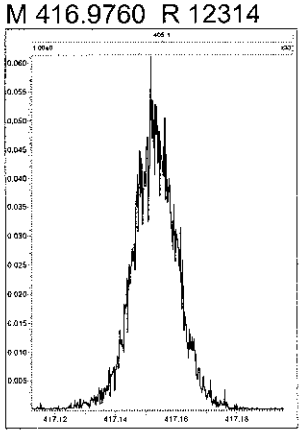
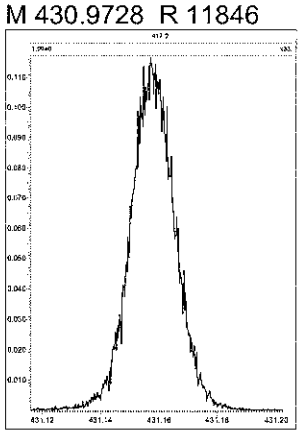
M 404.9760 R 12316



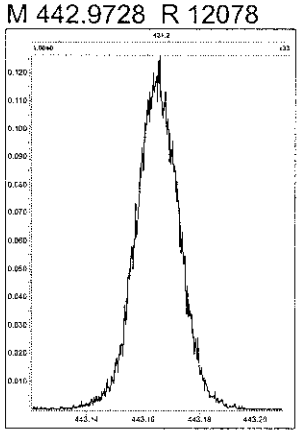
M 416.9760 R 12314



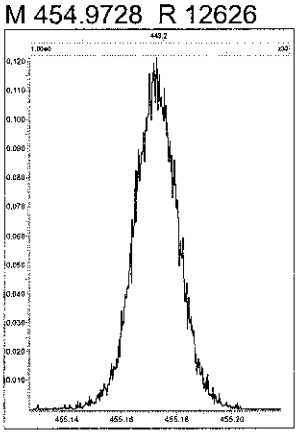
M 430.9728 R 11846



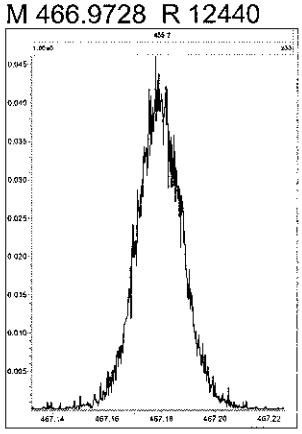
M 442.9728 R 12078



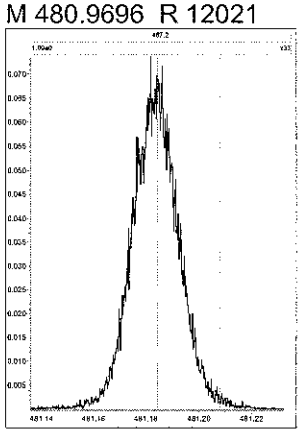
M 454.9728 R 12626



M 466.9728 R 12440



M 480.9696 R 12021



File: Experiment: dioxin_db5ms.exp Reference: pfk.ref Function: 5 @ 200 (ppm)

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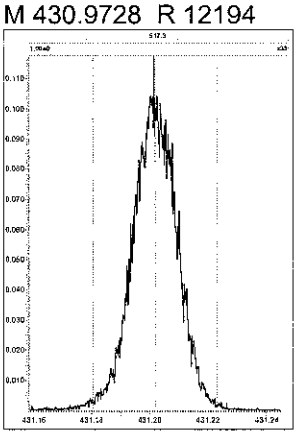
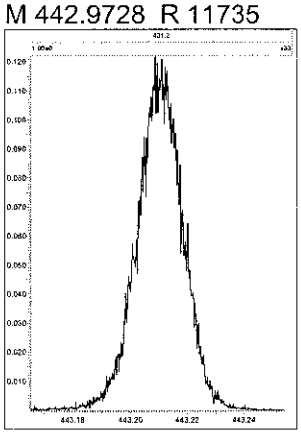
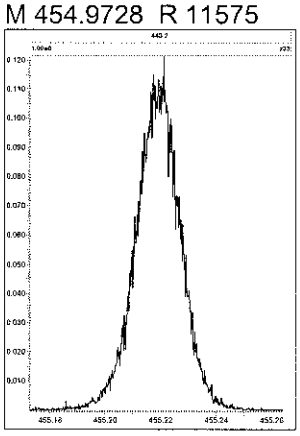
M 430.9728 R 12194



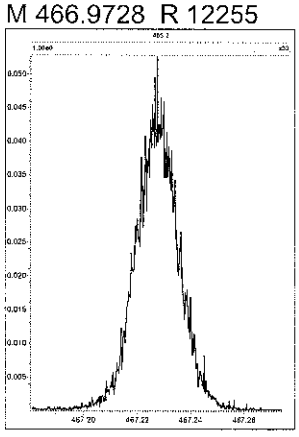
M 442.9728 R 11735



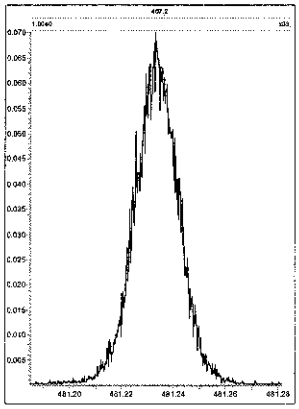
M 454.9728 R 11575



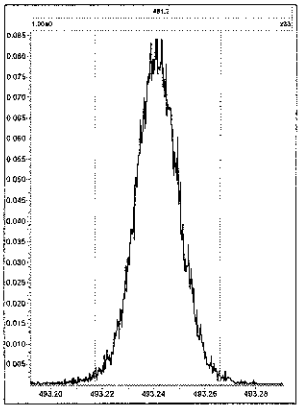
M 466.9728 R 12255



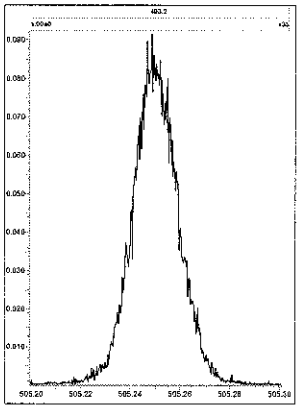
M 480.9696 R 12254



M 492.9696 R 12137



M 504.9696 R 11849



M 516.9697 R 11210

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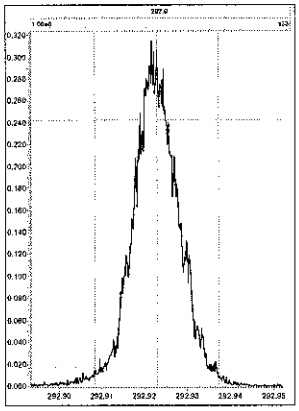
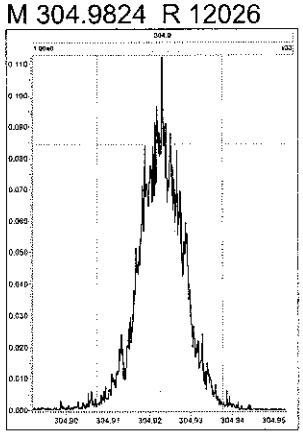
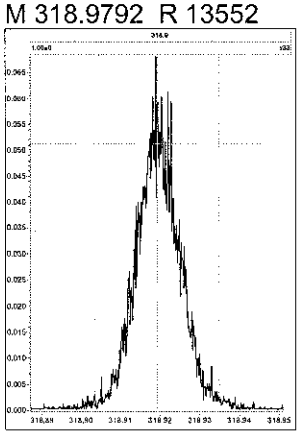
M 292.9824 R 11656



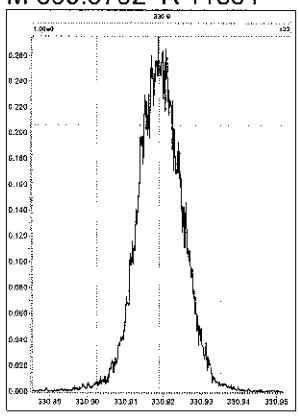
M 304.9824 R 12026



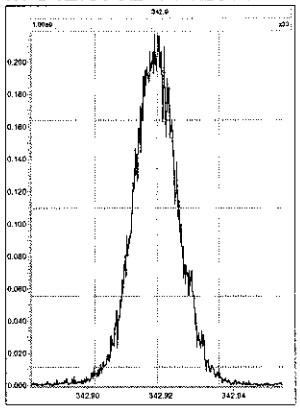
M 318.9792 R 13552



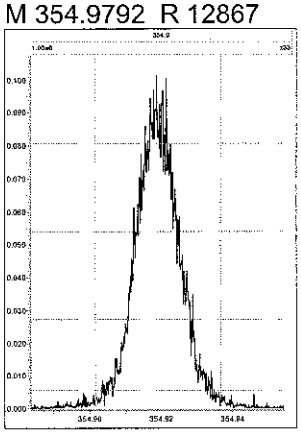
M 330.9792 R 11884 ✓



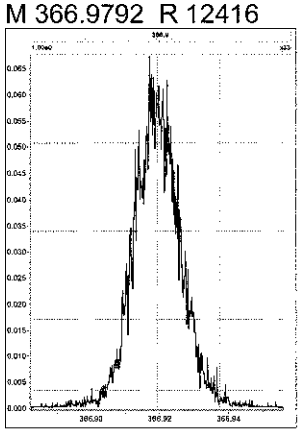
M 342.9792 R 12077



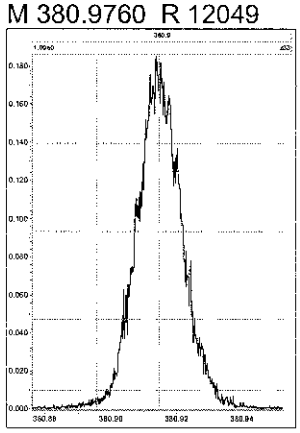
M 354.9792 R 12867



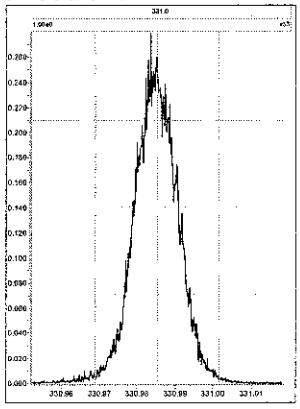
M 366.9792 R 12416



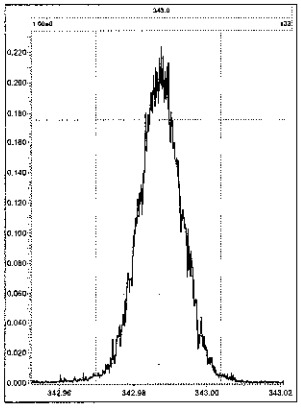
M 380.9760 R 12049



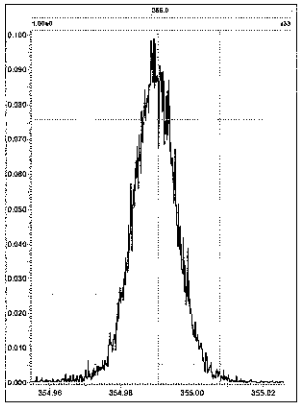
M 330.9792 R 12594



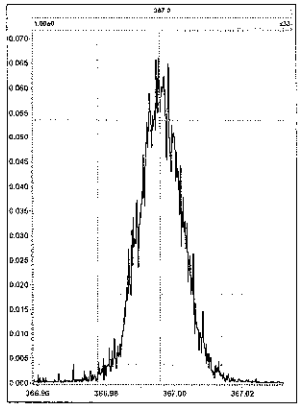
M 342.9792 R 12225



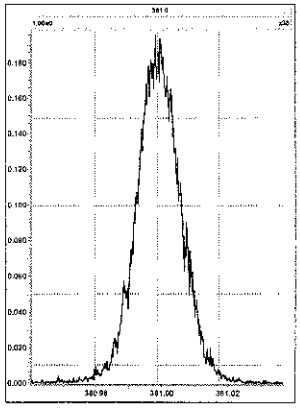
M 354.9792 R 12408



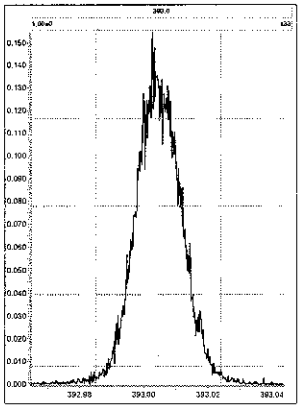
M 366.9792 R 12499



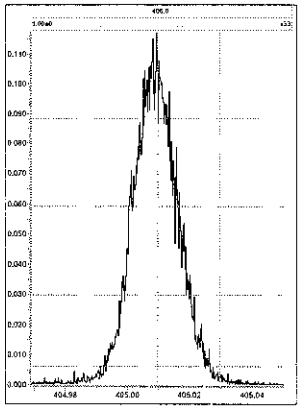
M 380.9760 R 12167



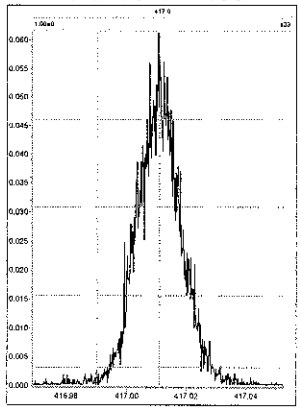
M 392.9760 R 12504



M 404.9760 R 12317



M 416.9760 R 12831



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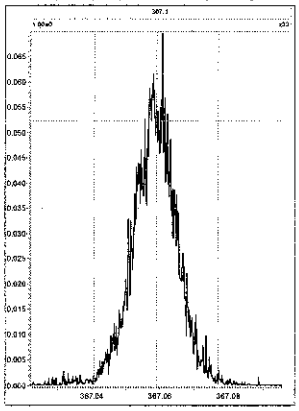
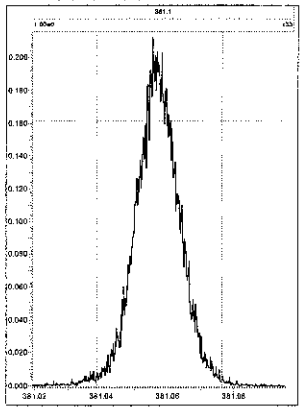
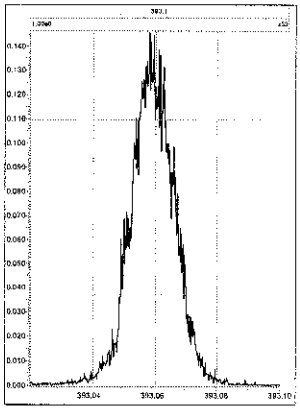
M 366.9792 R 13416



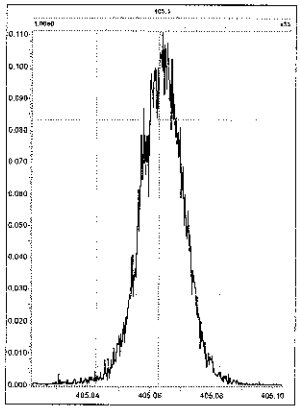
M 380.9760 R 12627



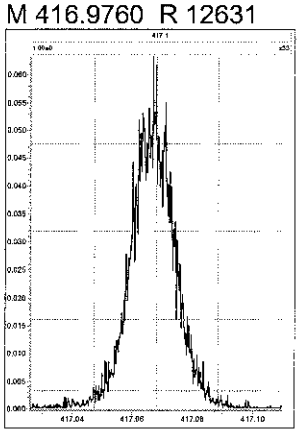
M 392.9760 R 12887



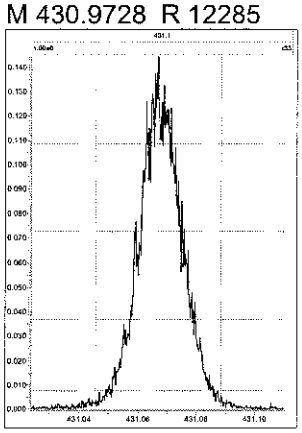
M 404.9760 R 12919



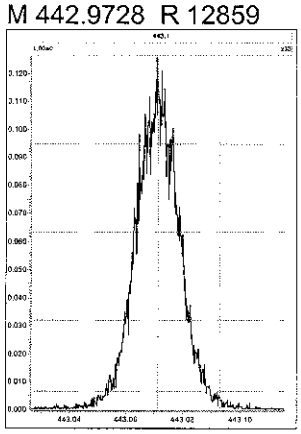
M 416.9760 R 12631



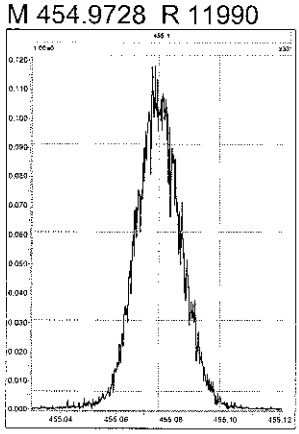
M 430.9728 R 12285



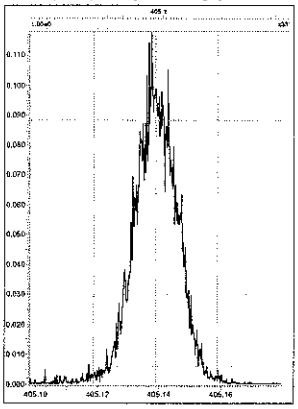
M 442.9728 R 12859



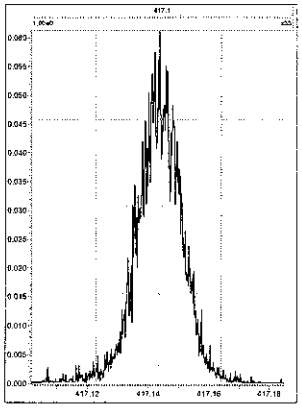
M 454.9728 R 11990



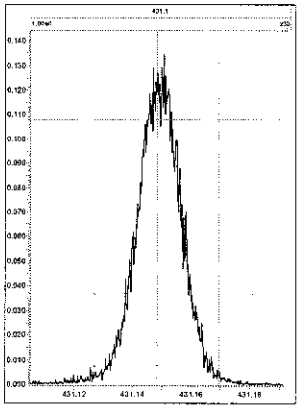
M 404.9760 R 13512



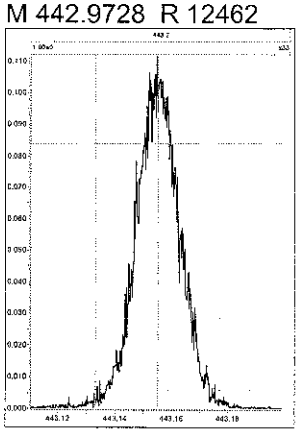
M 416.9760 R 13777



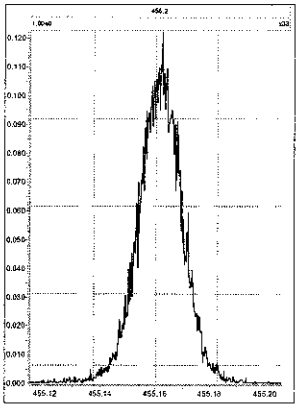
M 430.9728 R 12692



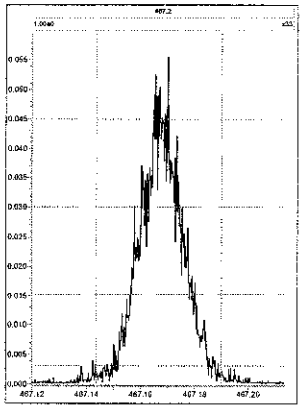
M 442.9728 R 12462



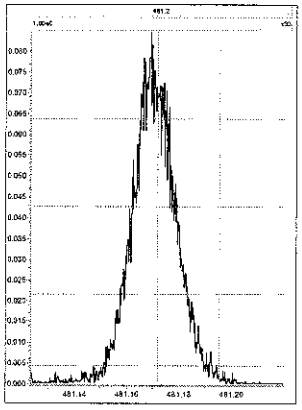
M 454.9728 R 12740



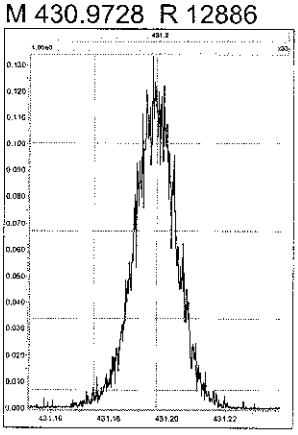
M 466.9728 R 13122



M 480.9696 R 12920



M 430.9728 R 12886



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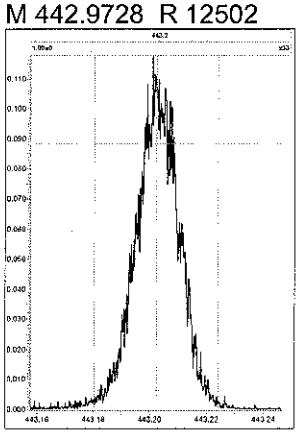
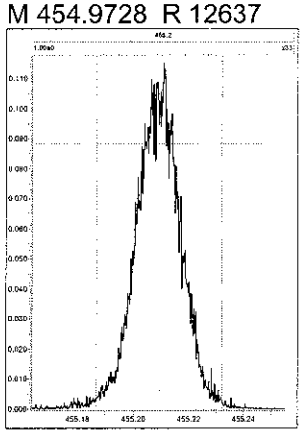
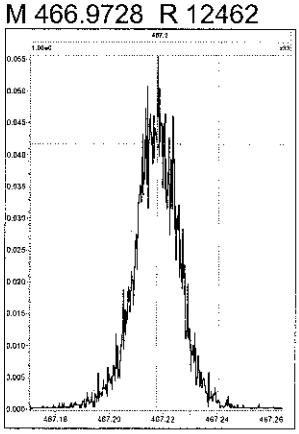
M 442.9728 R 12502



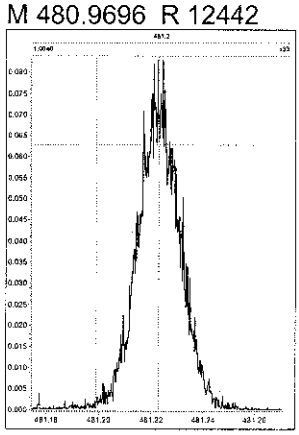
M 454.9728 R 12637



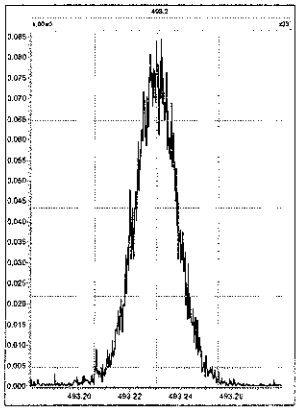
M 466.9728 R 12462



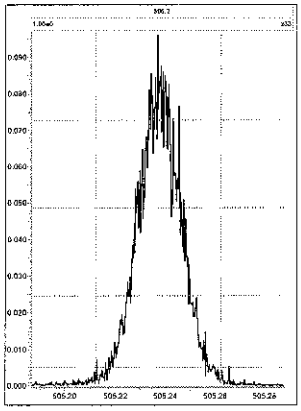
M 480.9696 R 12442



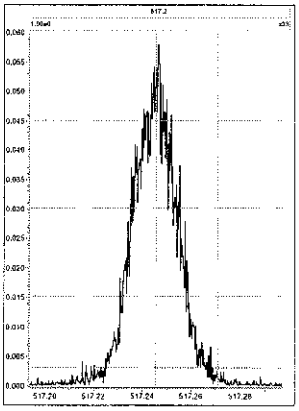
M 492.9696 R 13054



M 504.9696 R 12956



M 516.9697 R 12197



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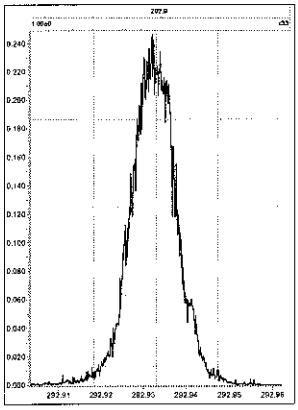
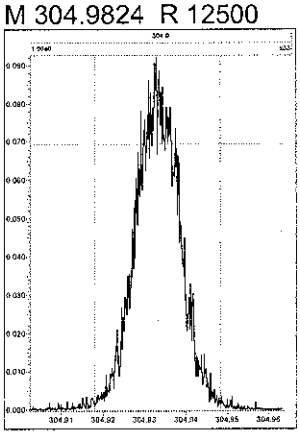
M 292.9824 R 12136



M 304.9824 R 12500



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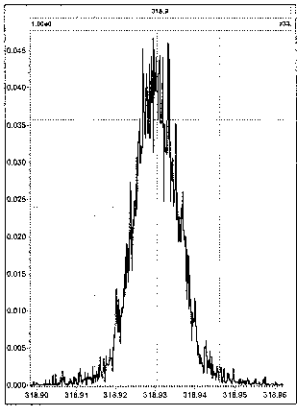
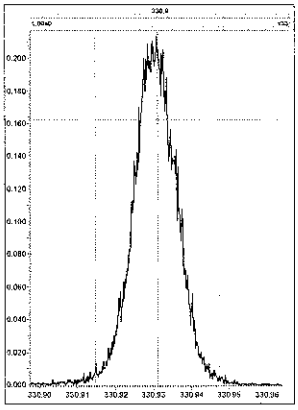
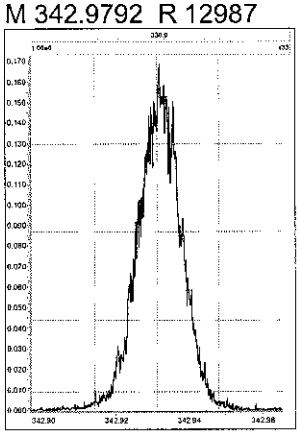


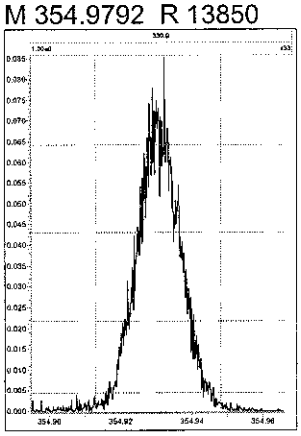
M 330.9792 R 12659



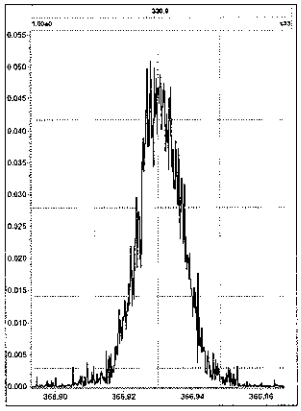
M 342.9792 R 12987



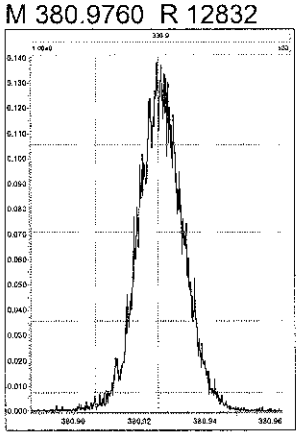
M 354.9792 R 13850



M 366.9792 R 14177



M 380.9760 R 12832



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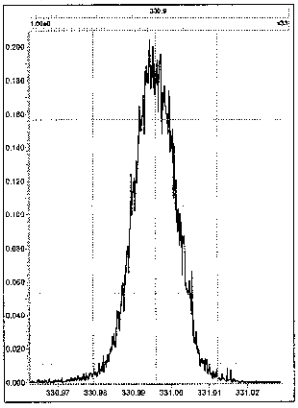

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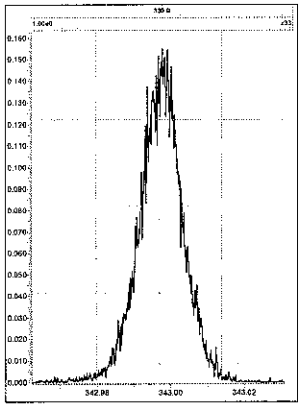
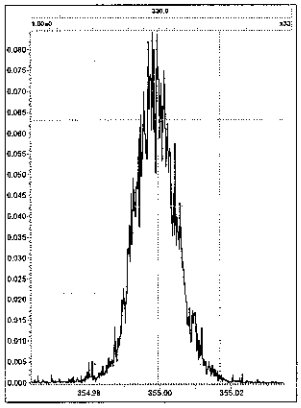


M 354.9792 R 13101



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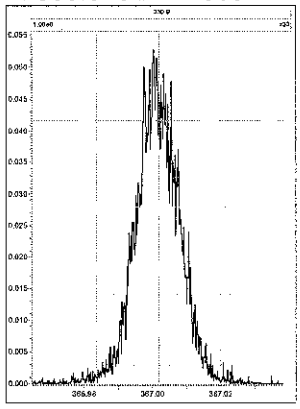

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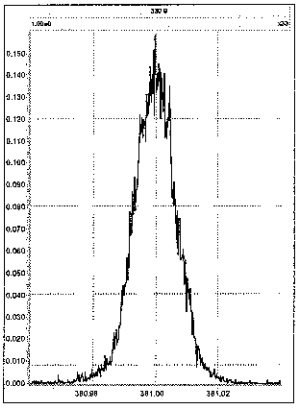
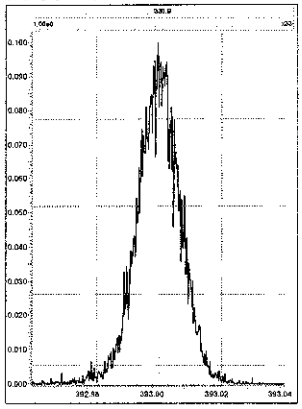
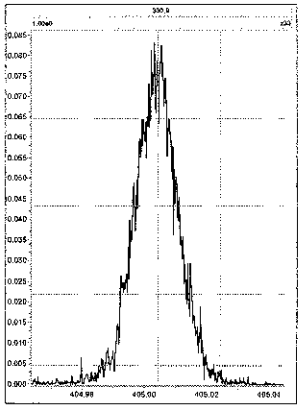


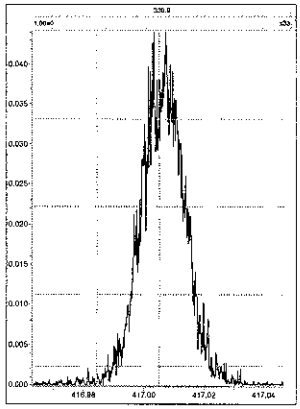
M 392.9760 R 13021



M 404.9760 R 14331



M 416.9760 R 13586



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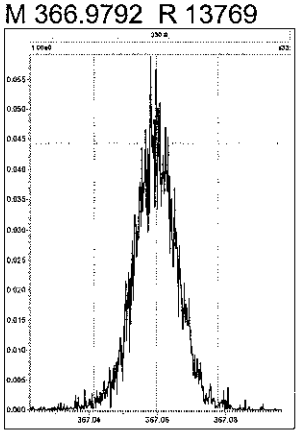
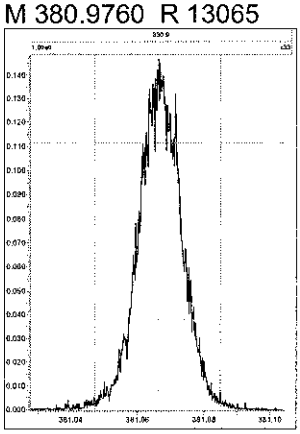
M 366.9792 R 13769



M 380.9760 R 13065



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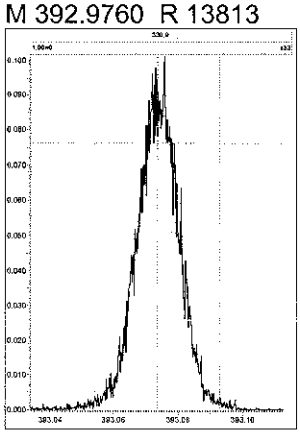
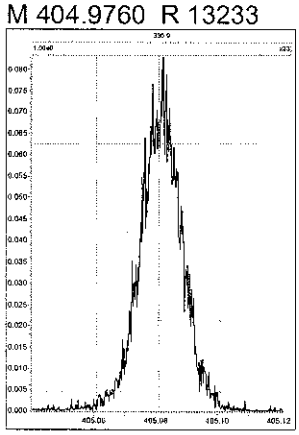
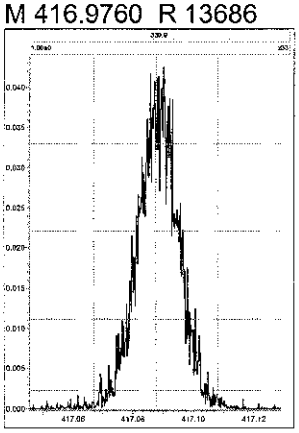


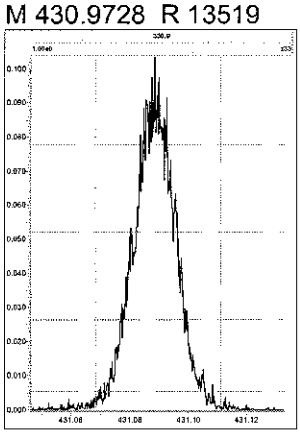
M 404.9760 R 13233



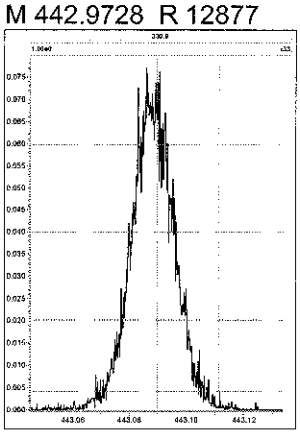
M 416.9760 R 13686



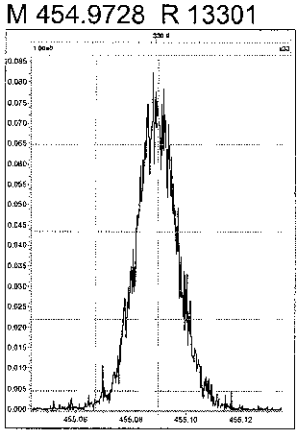
M 430.9728 R 13519



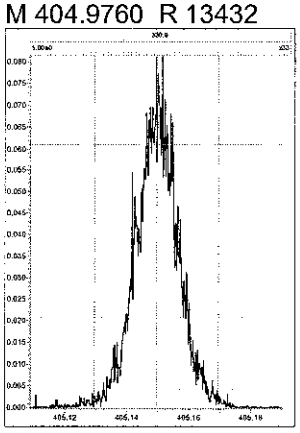
M 442.9728 R 12877



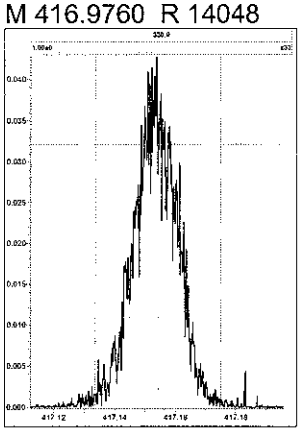
M 454.9728 R 13301



M 404.9760 R 13432



M 416.9760 R 14048



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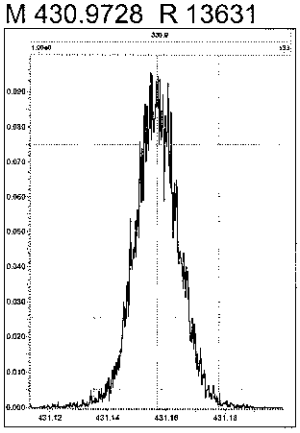
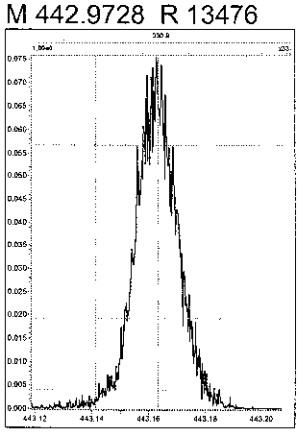
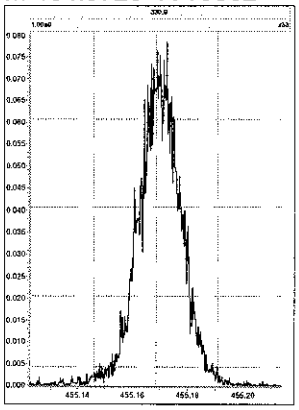


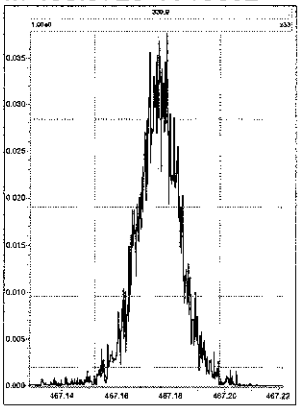
M 442.9728 R 13476



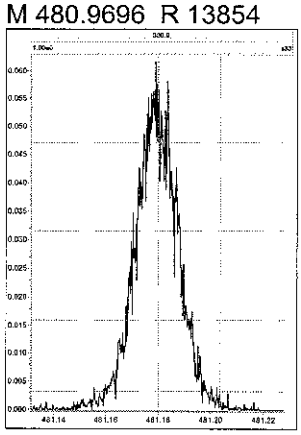
M 454.9728 R 13662



M 466.9728 R 13602



M 480.9696 R 13854



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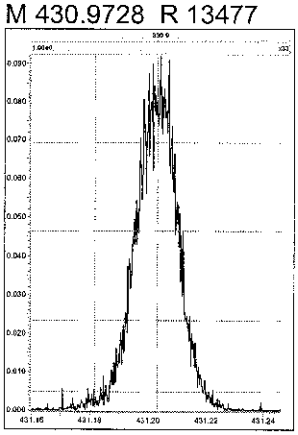

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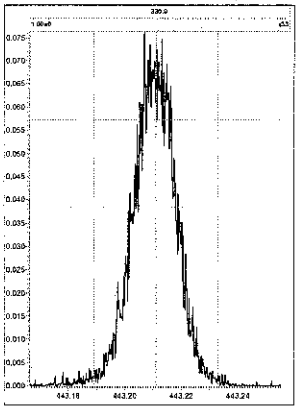
M 442.9728 R 13406



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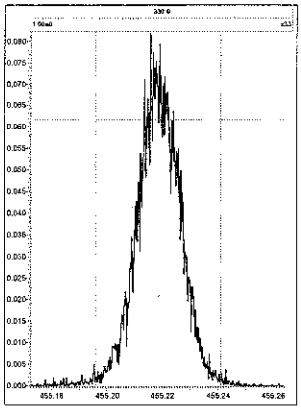
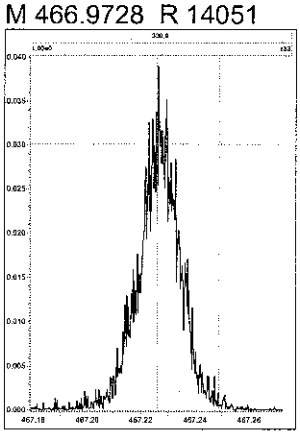
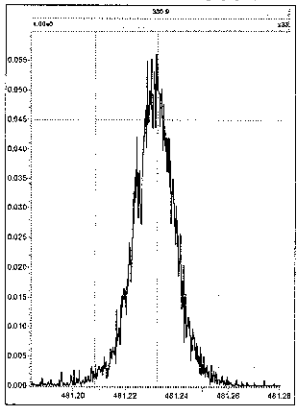


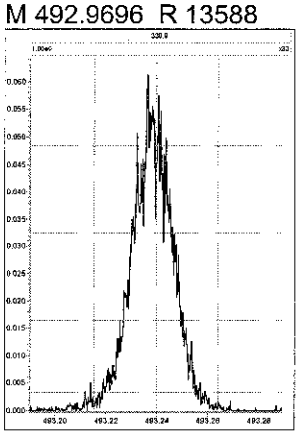
M 466.9728 R 14051



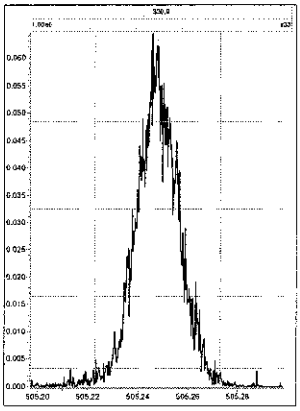
M 480.9696 R 13892



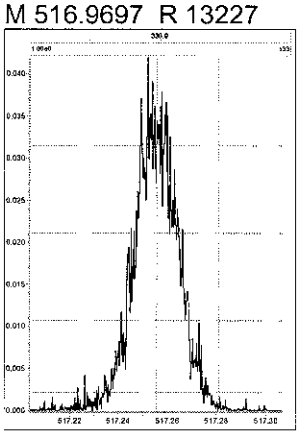
M 492.9696 R 13588



M 504.9696 R 13706



M 516.9697 R 13227



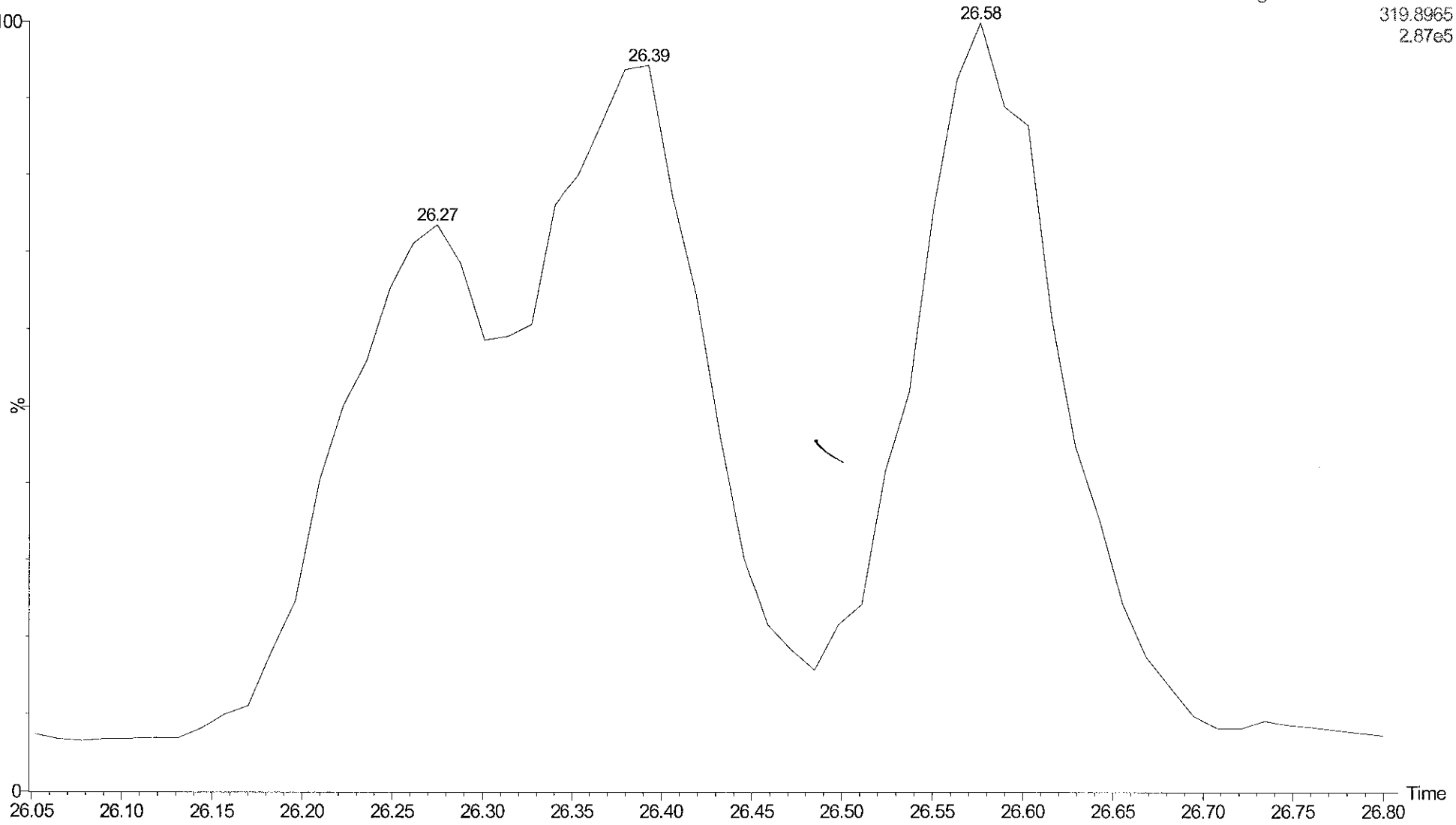
COLUMN CHECK (2378-TCDD 8%)

P763

10-Oct-2011 13:19:25

b10oct11a-1

1: Voltage SIR 13 Channels EI+
319.8965
2.87e5



COLUMN CHECK (2378-TCDD 7%)

P763

10-Oct-2011 23:44:57

b10oct11a-15

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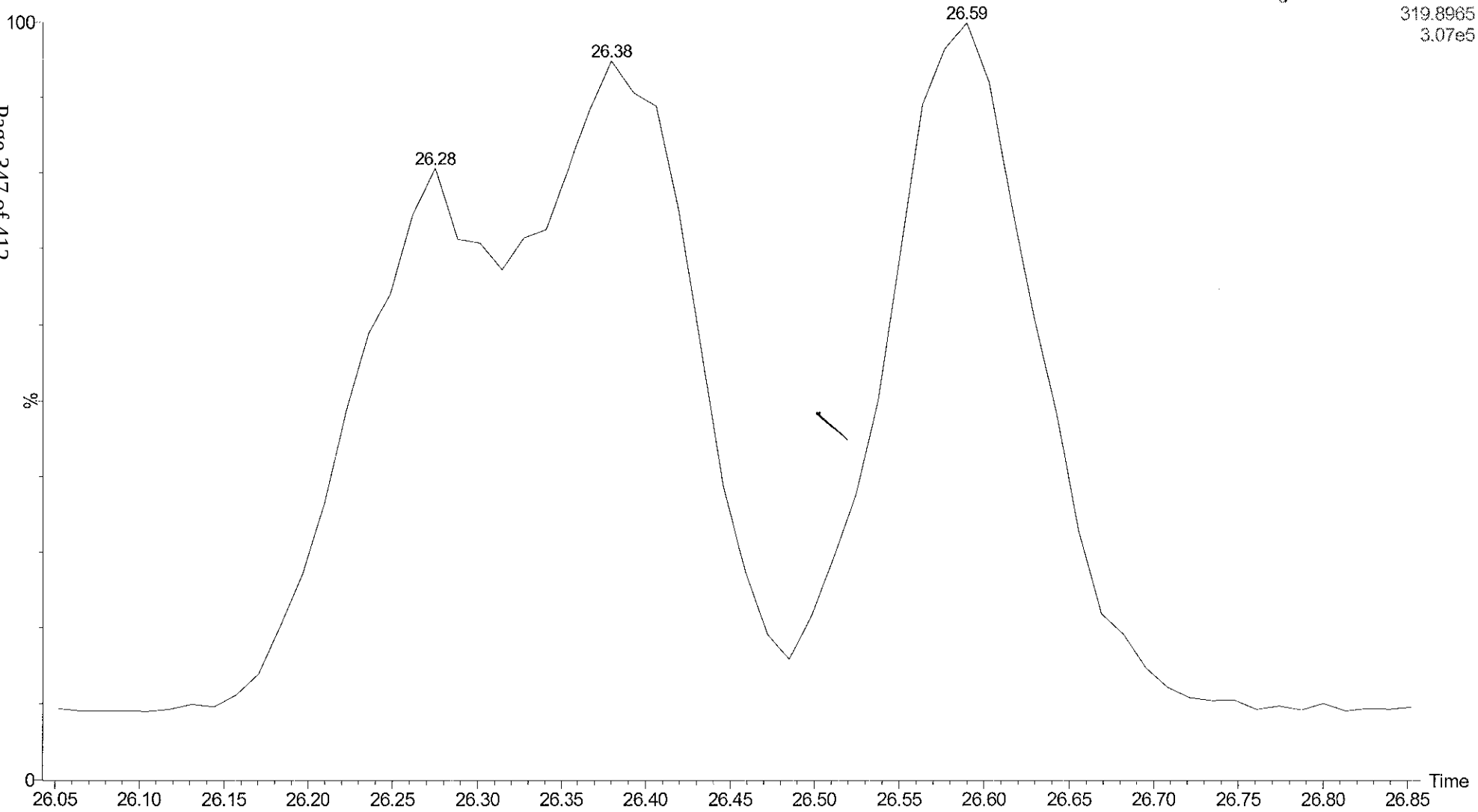
319.8965
3.07e5



COLUMN CHECK (2378-TCDD 12%)

P763

11-Oct-2011 10:17:20

b10oct11a_2-14

1: Voltage SIR 13 Channels EI+
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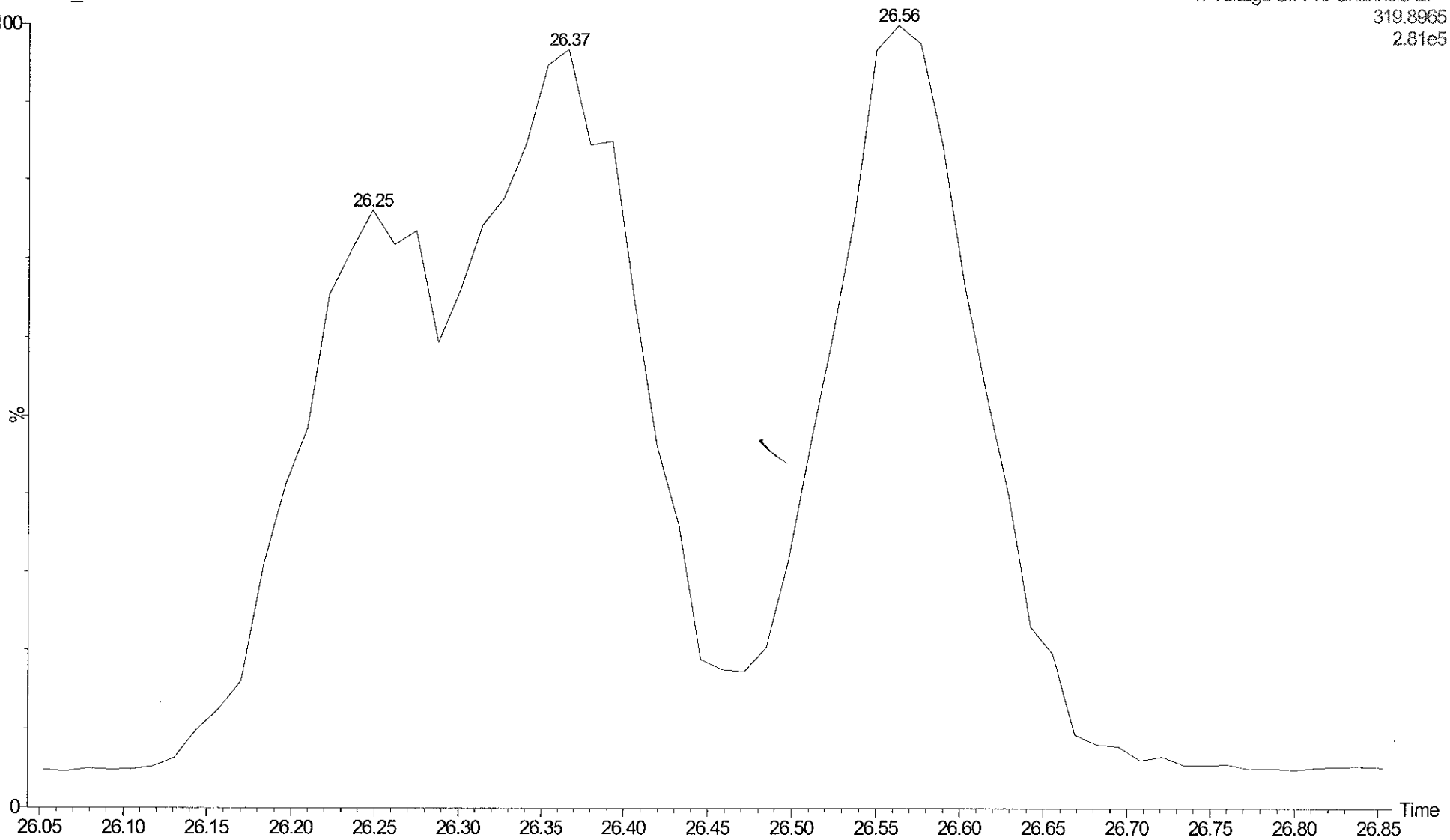
2.81e5



Quantify Sample Summary Report **MassLynx 4.1**
Window Defining Report

Dataset: C:\MassLynx\Default.pro\WDM Results\wdm-b10oct11a-1.qld

Last Altered: Tuesday, October 11, 2011 07:52:50 Eastern Standard Time
Printed: Tuesday, October 11, 2011 07:53:27 Eastern Standard Time

Method: C:\MassLynx\Default.pro\Methdb\WDM_101011.mdb 04 Oct 2011 12:06:04
Calibration: C:\MassLynx\DEFAULT.PRO\CurveDB\8290-b01nov10b.cdb 02 Nov 2010 08:19:01

Name: b10oct11a-1, Date: 10-Oct-2011, Time: 13:19:25, ID: CS3WT UD110629-01.1, Description: , Job: b10oct11a, Task: HRP763_1, User: MJC

	Name	RT
1	First TCDF	21.63
2	Last TCDF	27.69
3	First PeCDF	27.76
4	Last PeCDF	32.41
5	First HxCDF	32.86
6	Last HxCDF	34.67
7	First HpCDF	35.84
8	Last HpCDF	37.25
9	OCDF	40.07
10	First TCDD	23.27
11	2378-TCDD	26.58
12	Last TCDD	27.60
13	First PeCDD	29.91
14	Last PeCDD	32.29
15	First HxCDD	33.23
16	Last HxCDD	34.45
17	First HpCDD	36.09
18	Last HpCDD	36.78
19	OCDD	39.88

Quantify Sample Report **MassLynx 4.1**
Window Defining Report

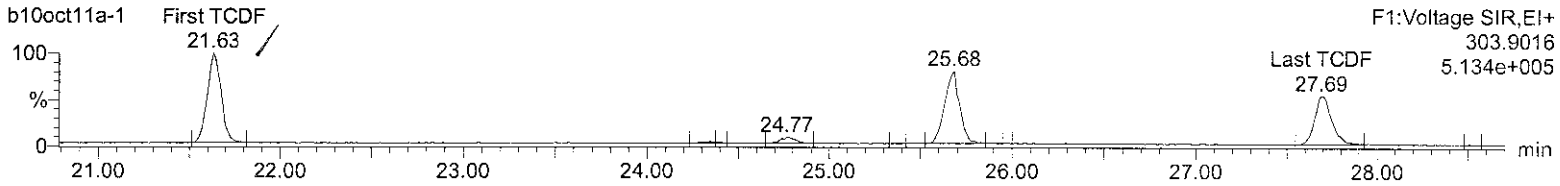
Dataset: C:\MassLynx\Default.pro\WDM Results\wdm-b10oct11a-1.qld

Last Altered: Tuesday, October 11, 2011 07:52:50 Eastern Standard Time
Printed: Tuesday, October 11, 2011 07:53:27 Eastern Standard Time

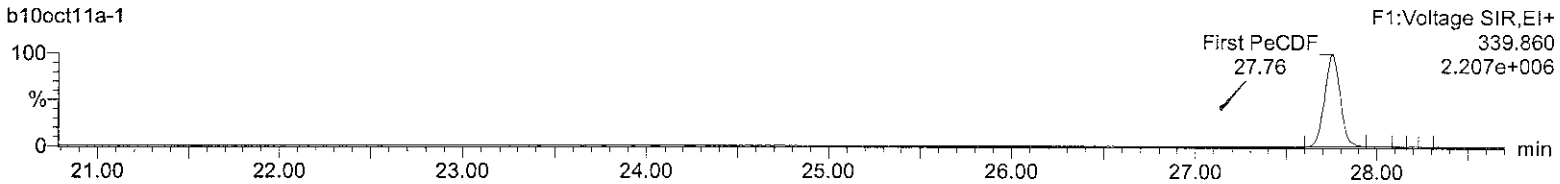
Method: C:\MassLynx\Default.pro\Methdb\WDM_101011.mdb 04 Oct 2011 12:06:04
Calibration: C:\MassLynx\DEFAULT.PRO\CurveDB\8290-b01nov10b.cdb 02 Nov 2010 08:19:01

Name: b10oct11a-1, Date: 10-Oct-2011, Time: 13:19:25, ID: CS3WT UD110629-01.1, Description: , Job: b10oct11a, Task: HRP763_1, User: MJC

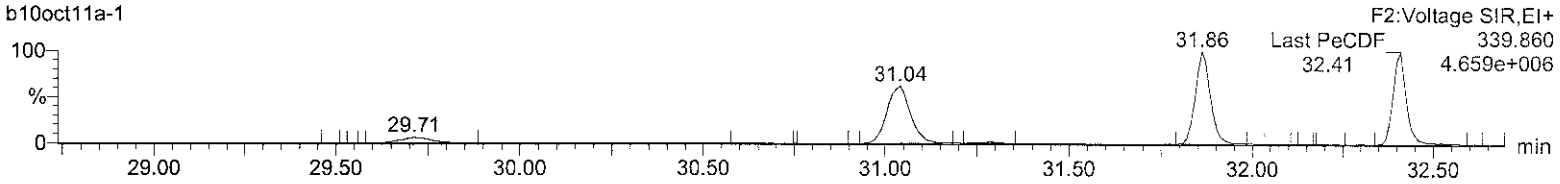
First TCDF



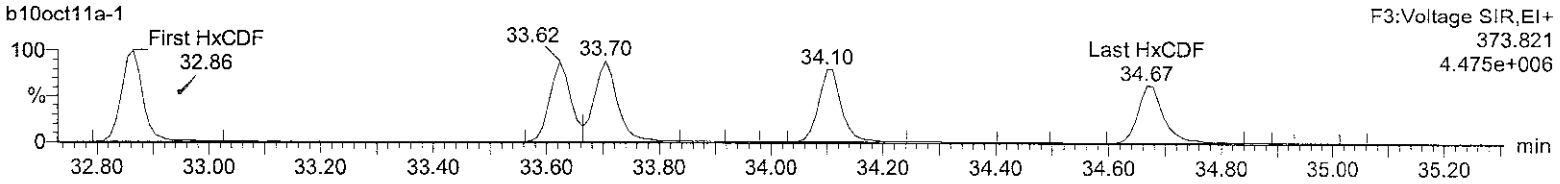
First PeCDF



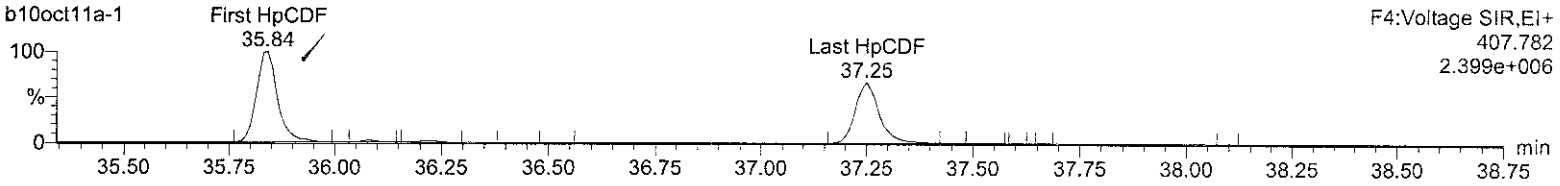
Last PeCDF



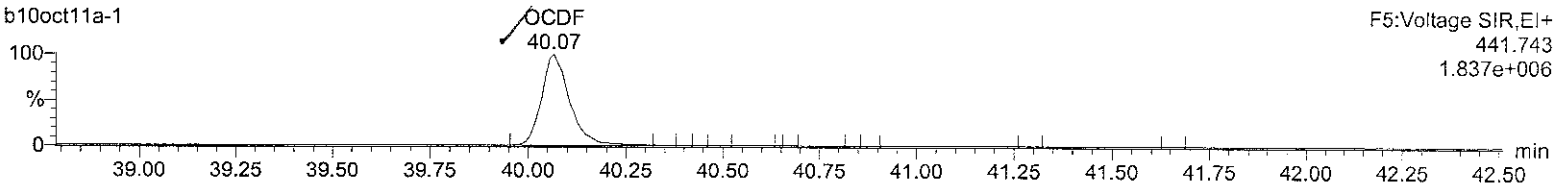
First HxCDF



First HpCDF



OCDF



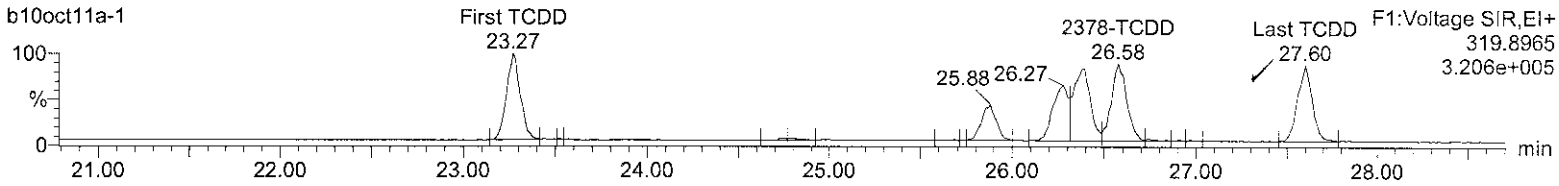
Quantify Sample Report **MassLynx 4.1**
Window Defining Report

Dataset: C:\MassLynx\Default.pro\WDM Results\wdm-b10oct11a-1.qld

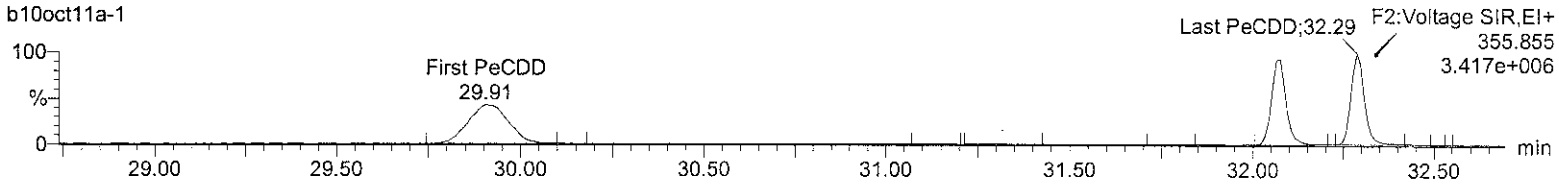
Last Altered: Tuesday, October 11, 2011 07:52:50 Eastern Standard Time
Printed: Tuesday, October 11, 2011 07:53:27 Eastern Standard Time

Name: b10oct11a-1, Date: 10-Oct-2011, Time: 13:19:25, ID: CS3WT UD110629-01.1, Description: , Job: b10oct11a, Task: HRP763_1, User: MJC

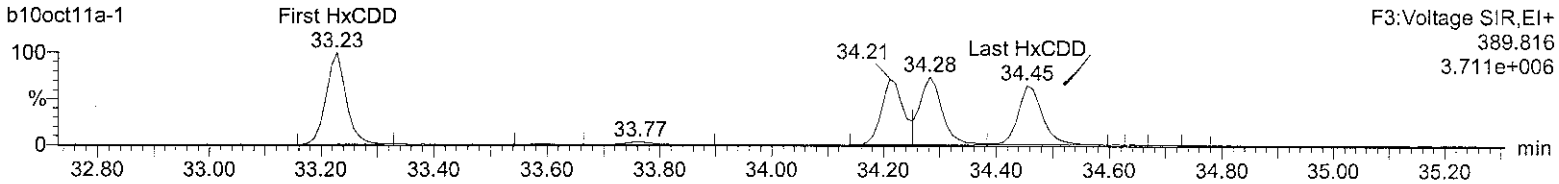
First TCDD



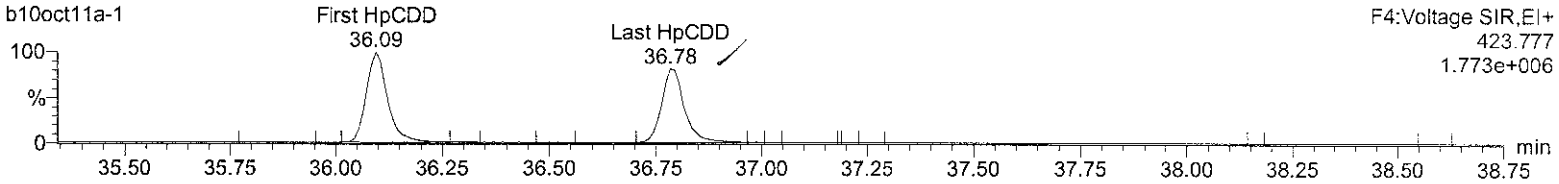
First PeCDD



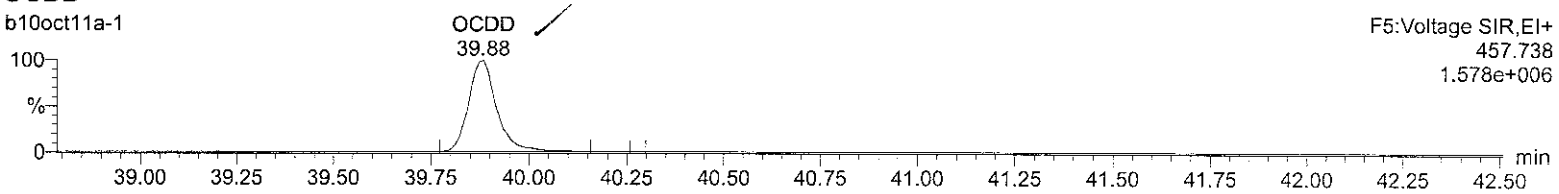
First HxCDD



First HpCDD



OCDD



Quantify Sample Summary Report **MassLynx 4.1**
Window Defining Report

Dataset: C:\MassLynx\Default.pro\WDM Results\wdm-b10oct11a-15.qld

Last Altered: Tuesday, October 11, 2011 07:55:31 Eastern Standard Time
Printed: Tuesday, October 11, 2011 07:56:04 Eastern Standard Time

Method: C:\MassLynx\Default.pro\Methdb\WDM_101011.mdb 11 Oct 2011 07:53:22
Calibration: C:\MassLynx\DEFAULT.PRO\CurveDB\8290-b01nov10b.cdb 02 Nov 2010 08:19:01

Name: b10oct11a-15, Date: 10-Oct-2011, Time: 23:44:57, ID: CS3WT UD110629-01.1, Description: , Job: b10oct11a, Task: HRP763_1, User: MJC

	Name	RT
1	First TCDF	21.63
2	Last TCDF	27.69
3	First PeCDF	27.77
4	Last PeCDF	32.41
5	First HxCDF	32.86
6	Last HxCDF	34.68
7	First HpCDF	35.84
8	Last HpCDF	37.25
9	OCDF	40.09
10	First TCDD	23.28
11	2378-TCDD	26.59
12	Last TCDD	27.61
13	First PeCDD	29.92
14	Last PeCDD	32.29
15	First HxCDD	33.23
16	Last HxCDD	34.47
17	First HpCDD	36.11
18	Last HpCDD	36.79
19	OCDD	39.90

Quantify Sample Report **MassLynx 4.1**
Window Defining Report

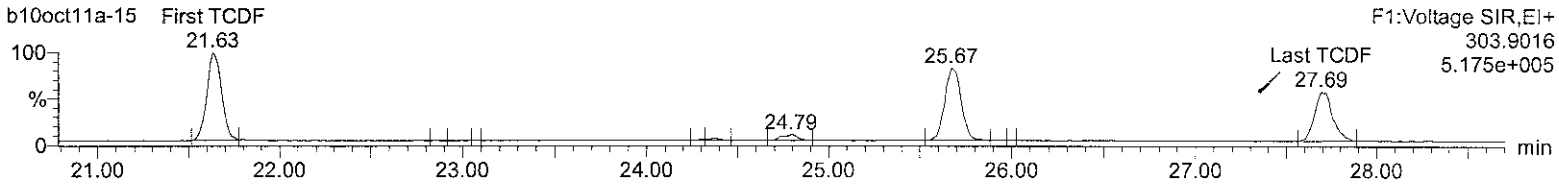
Dataset: C:\MassLynx\Default.pro\WDM Results\wdm-b10oct11a-15.qld

Last Altered: Tuesday, October 11, 2011 07:55:31 Eastern Standard Time
Printed: Tuesday, October 11, 2011 07:56:04 Eastern Standard Time

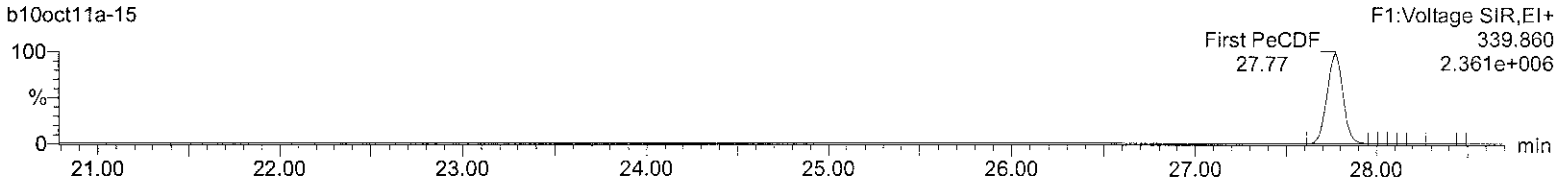
Method: C:\MassLynx\Default.pro\Methdb\WDM_101011.mdb 11 Oct 2011 07:53:22
Calibration: C:\MassLynx\DEFAULT.PRO\CurveDB\8290-b01nov10b.cdb 02 Nov 2010 08:19:01

Name: b10oct11a-15, Date: 10-Oct-2011, Time: 23:44:57, ID: CS3WT UD110629-01.1, Description: , Job: b10oct11a, Task: HRP763_1, User: MJC

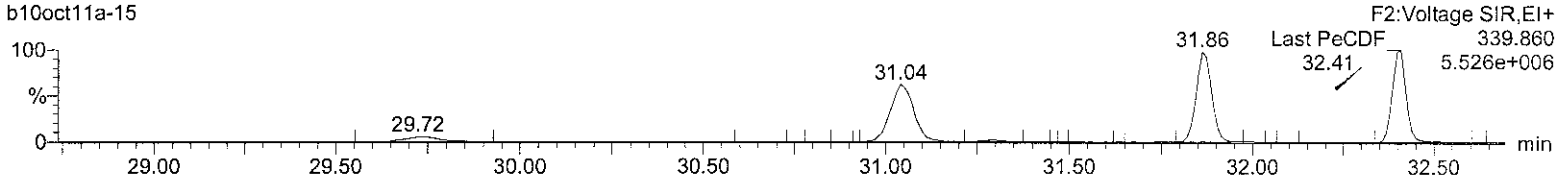
First TCDF



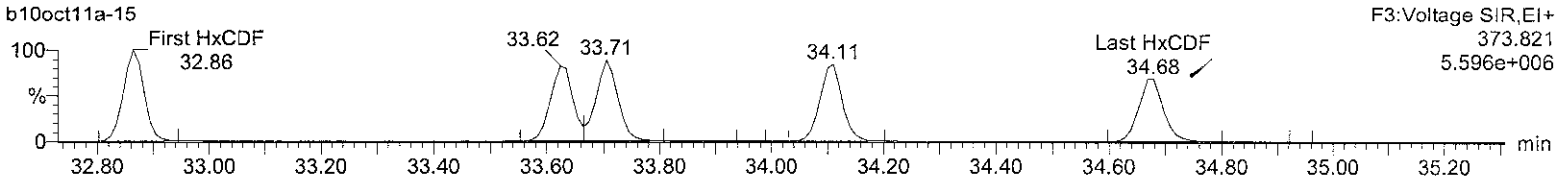
First PeCDF



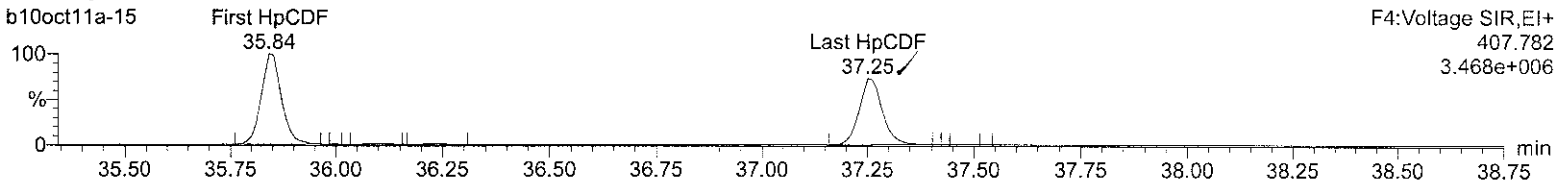
Last PeCDF



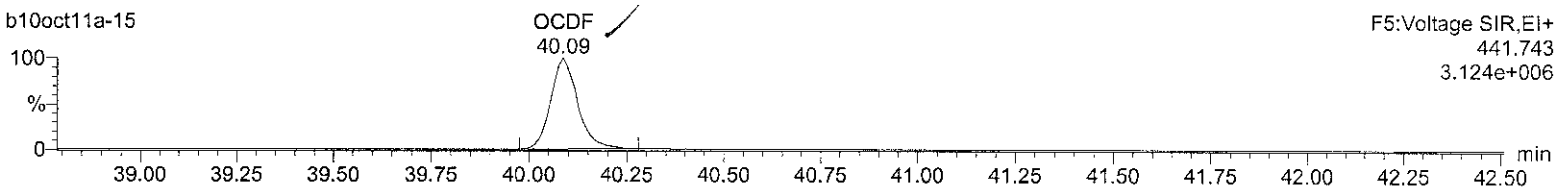
First HxCDF



First HpCDF



OCDF



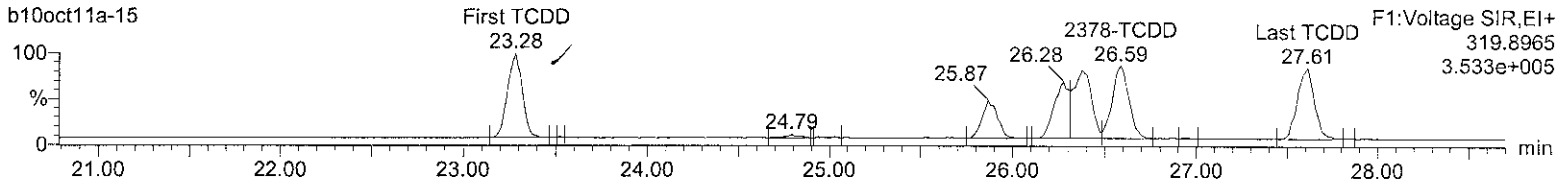
Quantify Sample Report **MassLynx 4.1**
Window Defining Report

Dataset: C:\MassLynx\Default.pro\WDM Results\wdm-b10oct11a-15.qld

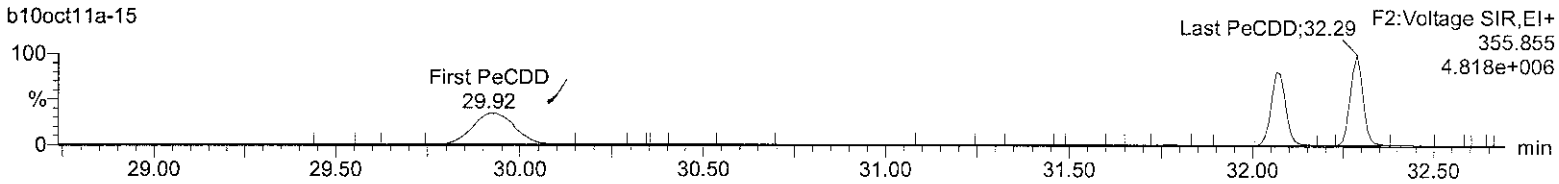
Last Altered: Tuesday, October 11, 2011 07:55:31 Eastern Standard Time
Printed: Tuesday, October 11, 2011 07:56:04 Eastern Standard Time

Name: b10oct11a-15, Date: 10-Oct-2011, Time: 23:44:57, ID: CS3WT UD110629-01.1, Description: , Job: b10oct11a, Task: HRP763_1, User: MJC

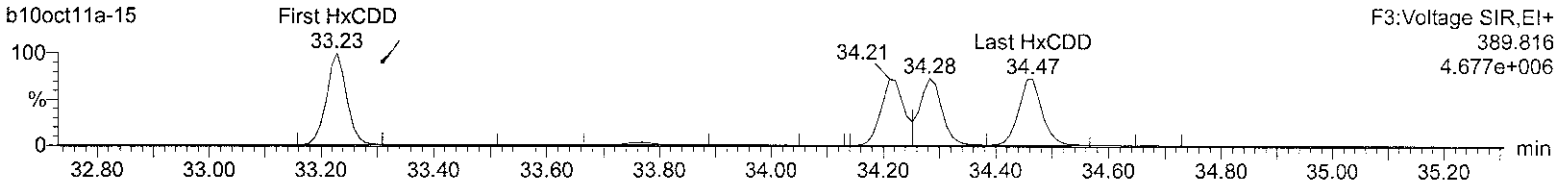
First TCDD



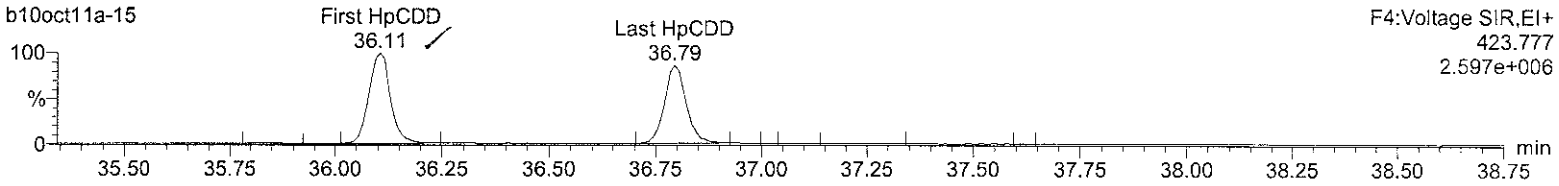
First PeCDD



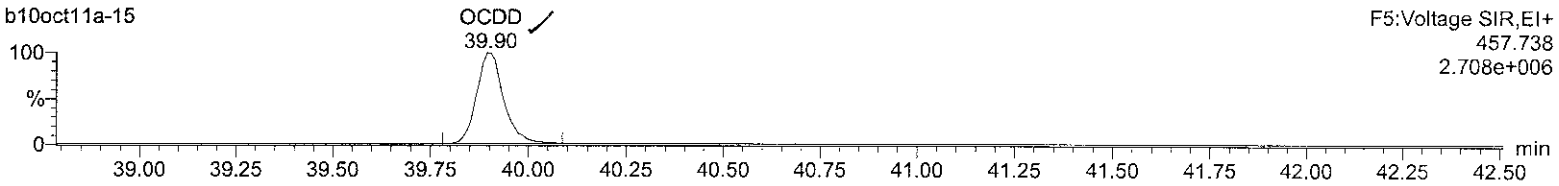
First HxCDD



First HpCDD



OCDD



Quantify Sample Summary Report **MassLynx 4.1**
Window Defining Report

Dataset: C:\MassLynx\Default.pro\WDM Results\wdm-b10oct11a_2-14.qld

Last Altered: Tuesday, October 11, 2011 13:30:51 Eastern Standard Time
Printed: Tuesday, October 11, 2011 13:31:40 Eastern Standard Time

Method: C:\MassLynx\Default.pro\Methdb\WDM_101011.mdb 11 Oct 2011 07:53:22
Calibration: C:\MassLynx\DEFAULT.PRO\CurveDB\8290-b01nov10b.cdb 02 Nov 2010 08:19:01

Name: b10oct11a_2-14, Date: 11-Oct-2011, Time: 10:17:20, ID: CS3WT UD110629-01.1, Description: , Job: b10oct11a_2, Task: HRP763_1, User: MJC

	Name	RT
1	First TCDF	21.62
2	Last TCDF	27.70
3	First PeCDF	27.74
4	Last PeCDF	32.40
5	First HxCDF	32.85
6	Last HxCDF	34.67
7	First HpCDF	35.83
8	Last HpCDF	37.24
9	OCDF	40.07
10	First TCDD	23.27
11	2378-TCDD	26.56
12	Last TCDD	27.59
13	First PeCDD	29.90
14	Last PeCDD	32.29
15	First HxCDD	33.22
16	Last HxCDD	34.45
17	First HpCDD	36.09
18	Last HpCDD	36.78
19	OCDD	39.87

Quantify Sample Report **MassLynx 4.1**
Window Defining Report

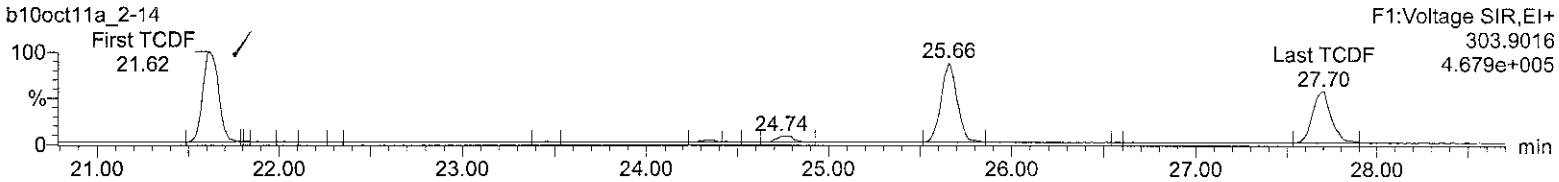
Dataset: C:\MassLynx\Default.pro\WDM Results\wdm-b10oct11a_2-14.qld

Last Altered: Tuesday, October 11, 2011 13:30:51 Eastern Standard Time
Printed: Tuesday, October 11, 2011 13:31:40 Eastern Standard Time

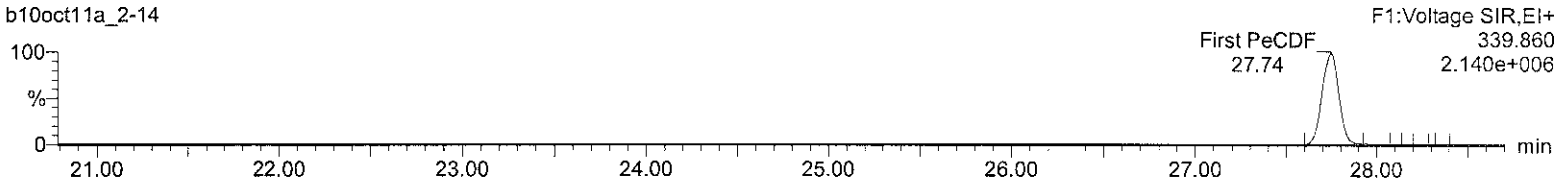
Method: C:\MassLynx\Default.pro\Methdb\WDM_101011.mdb 11 Oct 2011 07:53:22
Calibration: C:\MassLynx\DEFAULT.PRO\CurveDB\8290-b01nov10b.cdb 02 Nov 2010 08:19:01

Name: b10oct11a_2-14, Date: 11-Oct-2011, Time: 10:17:20, ID: CS3WT UD110629-01.1, Description: , Job: b10oct11a_2, Task: HRP763_1, User: MJC

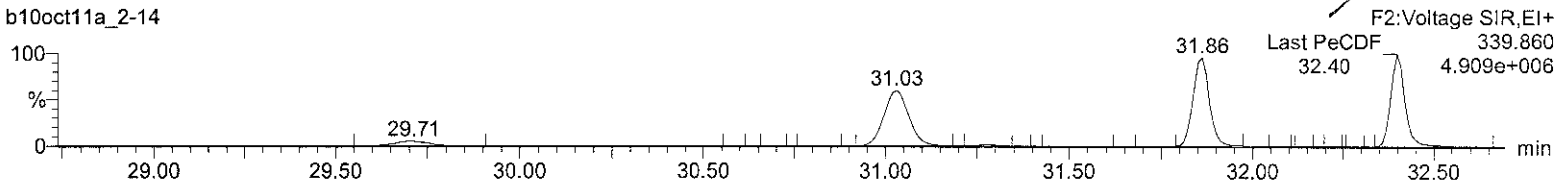
First TCDF



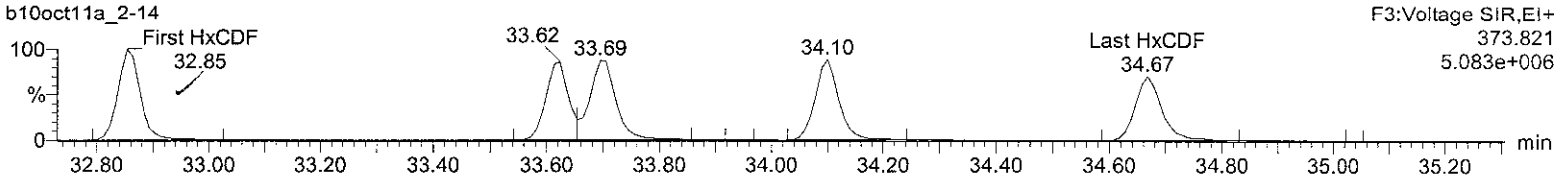
First PeCDF



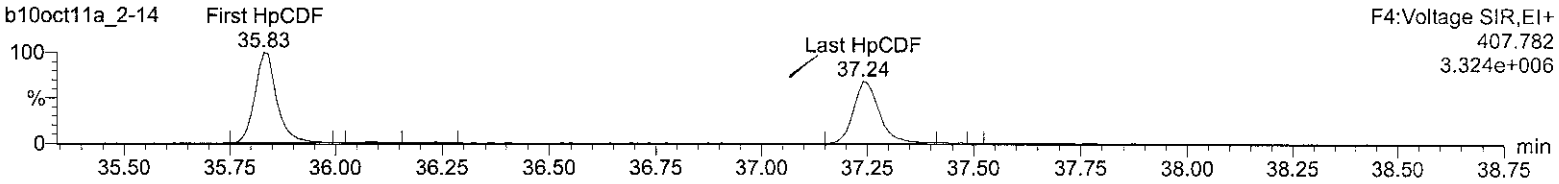
Last PeCDF



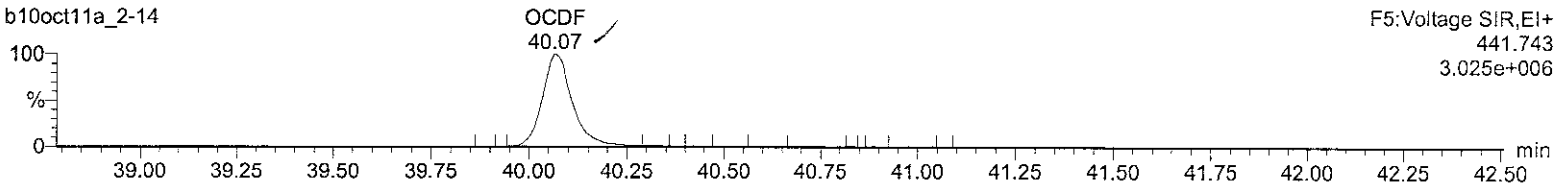
First HxCDF



First HpCDF



OCDF



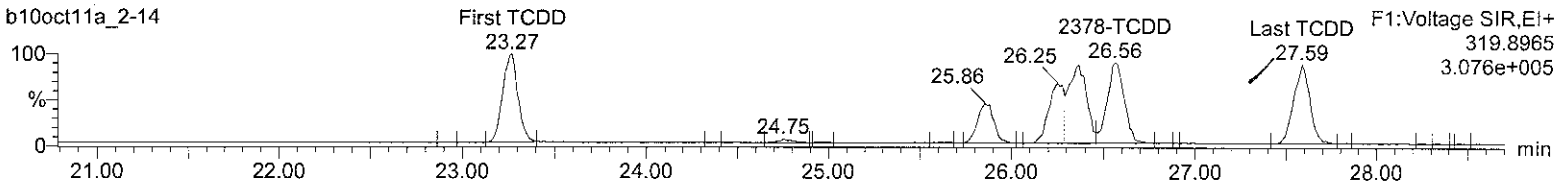
Quantify Sample Report **MassLynx 4.1**
Window Defining Report

Dataset: C:\MassLynx\Default.pro\WDM Results\wdm-b10oct11a_2-14.qld

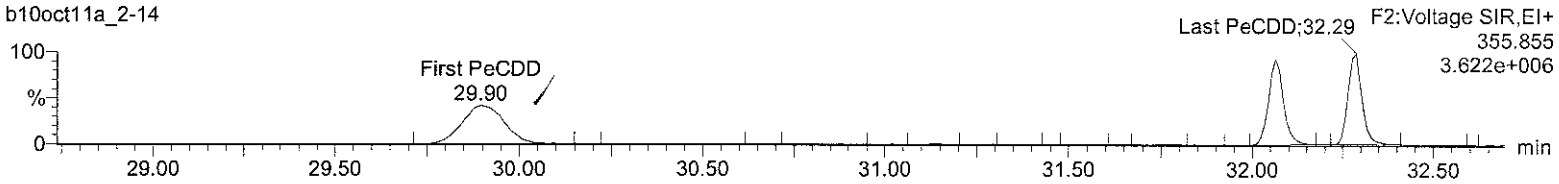
Last Altered: Tuesday, October 11, 2011 13:30:51 Eastern Standard Time
Printed: Tuesday, October 11, 2011 13:31:40 Eastern Standard Time

Name: b10oct11a_2-14, Date: 11-Oct-2011, Time: 10:17:20, ID: CS3WT UD110629-01.1, Description: , Job: b10oct11a_2, Task: HRP763_1, User: MJC

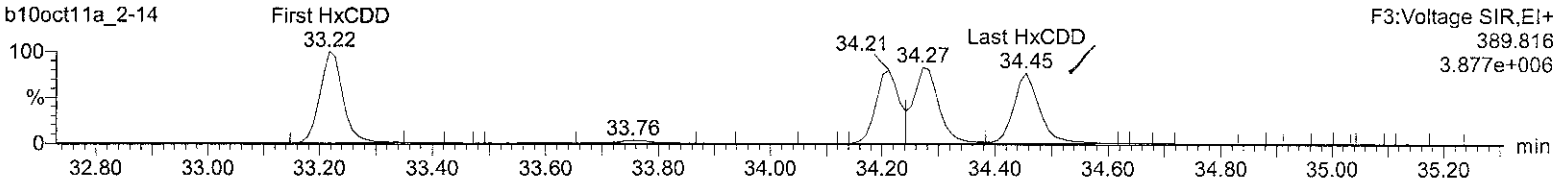
First TCDD



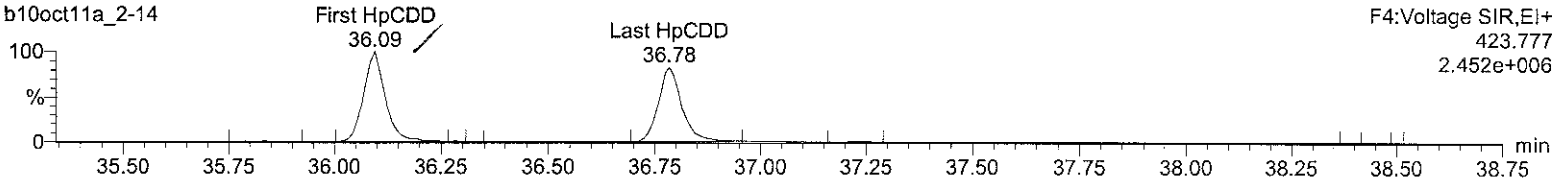
First PeCDD



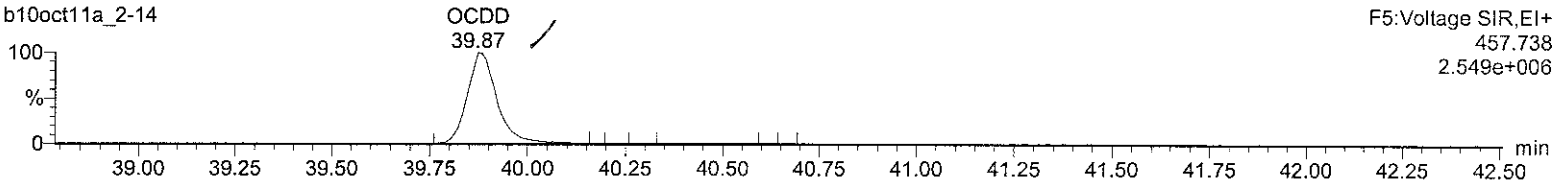
First HxCDD



First HpCDD



OCDD



Quantify Sample Summary Report **MassLynx 4.1**
Method 8290 CCAL Report

Dataset: C:\MassLynx\Default.pro\CCAL Results\8290-b10oct11a-1.qld

Last Altered: Tuesday, October 11, 2011 07:56:17 Eastern Standard Time
Printed: Tuesday, October 11, 2011 07:57:47 Eastern Standard Time

Method: C:\MassLynx\Default.pro\Methdb\CFA_EPA8290_101011.mdb 10 Oct 2011 14:05:54
Calibration: C:\MassLynx\DEFAULT.PRO\CurveDB\8290-b01nov10b.cdb 02 Nov 2010 08:19:01

Name: b10oct11a-1, Date: 10-Oct-2011, Time: 13:19:25, ID: CS3WT UD110629-01.1, Description: , Job: b10oct11a, Task: HRP763_1, User: MJC

	Name	Ion1Area	Ion2Area	Response	RT	RRT	RA	Fail?	pg/uL	EDL	RRF	%D	Height1	Noise1	S/N1	Height2	Noise2	S/N2	M
1	2378-TCDD	2.60e4	3.38e4	5.98e4	26.58	1.000	0.77	NO	10.612	0.140	1.075	6.1	2.68e5	1339	200.1	3.19e5	1794	177.9	dd
2	12378-PeCDD	1.47e5	9.29e4	2.40e5	32.07	1.001	1.59	NO	50.718	0.150	1.047	1.4	3.18e6	3771	844.1	2.05e6	2557	802.4	bb
3	123478-HxCDD	1.20e5	9.61e4	2.16e5	34.21	0.998	1.25	NO	52.837	0.210	0.947	5.7	2.67e6	3938	676.9	2.10e6	3397	617.9	bd
4	123678-HxCDD	1.27e5	1.02e5	2.30e5	34.28	1.000	1.25	NO	51.962	0.194	1.006	3.9	2.74e6	3938	695.8	2.14e6	3397	630.2	dd
5	123789-HxCDD	1.20e5	9.92e4	2.19e5	34.45	1.005	1.21	NO	55.452	0.217	0.960	10.9	2.41e6	3938	610.8	1.93e6	3397	566.9	db
6	1234678-HpCDD	8.96e4	8.43e4	1.74e5	36.78	1.000	1.06	NO	51.752	0.227	1.040	3.5	1.43e6	2638	542.7	1.34e6	2243	598.5	bd
7	OCDD	1.29e5	1.42e5	2.70e5	39.88	1.001	0.91	NO	110.061	0.318	1.096	10.1	1.56e6	1857	840.5	1.71e6	1883	908.8	bd
8	2378-TCDF	3.73e4	4.91e4	8.64e4	25.68	1.002	0.76	NO	9.629	0.102	0.947	-3.7	3.97e5	2043	194.4	5.00e5	1688	296.4	bb
9	12378-PeCDF	2.07e5	1.37e5	3.45e5	31.04	1.001	1.51	NO	49.420	0.179	0.923	-1.2	2.85e6	3941	723.6	1.83e6	2814	650.4	bb
10	23478-PeCDF	2.16e5	1.40e5	3.56e5	31.86	1.027	1.54	NO	52.244	0.183	0.955	4.5	4.62e6	3941	1173.3	2.95e6	2814	1049.8	bb
11	123478-HxCDF	1.65e5	1.36e5	3.00e5	33.62	0.998	1.21	NO	52.702	0.236	0.958	5.4	3.90e6	5950	656.2	3.09e6	4954	623.2	bd
12	123678-HxCDF	1.88e5	1.51e5	3.39e5	33.70	1.000	1.24	NO	51.144	0.203	1.082	2.3	3.96e6	5950	665.2	3.15e6	4954	634.9	db
13	234678-HxCDF	1.69e5	1.37e5	3.06e5	34.10	1.012	1.23	NO	51.051	0.224	0.976	2.1	3.55e6	5950	595.8	2.85e6	4954	575.3	bb
14	123789-HxCDF	1.46e5	1.20e5	2.66e5	34.67	1.029	1.22	NO	53.612	0.271	0.849	7.2	2.77e6	5950	466.1	2.30e6	4954	464.6	bb
15	1234678-HpCDF	1.35e5	1.35e5	2.70e5	35.84	1.000	1.01	NO	50.152	0.182	1.281	0.3	2.38e6	3294	721.1	2.43e6	3699	655.9	bb
16	1234789-HpCDF	1.04e5	1.01e5	2.05e5	37.25	1.040	1.02	NO	52.263	0.250	0.972	4.5	1.59e6	3294	482.7	1.53e6	3699	413.1	bd
17	OCDF	1.50e5	1.66e5	3.16e5	40.07	1.005	0.90	NO	104.001	0.232	1.282	4.0	1.82e6	1364	1333.7	1.99e6	2018	987.5	bd
18	13C-2378-TCDD	2.47e5	3.09e5	5.56e5	26.56	1.027	0.80	NO	93.843	0.218	1.051	-6.2	2.46e6	2746	894.6	3.06e6	2769	1103.8	bb
19	13C-12378-PeCDD	2.79e5	1.80e5	4.59e5	32.05	1.240	1.56	NO	91.266	0.184	0.867	-8.7	6.21e6	2510	2473.5	4.07e6	1443	2820.0	bb
20	13C-123678-HxCDD	2.53e5	2.04e5	4.57e5	34.27	0.995	1.24	NO	96.222	0.216	1.070	-3.8	5.40e6	3847	1403.2	4.39e6	4107	1070.0	dd
21	13C-1234678-HpCDD	1.71e5	1.64e5	3.35e5	36.77	1.067	1.04	NO	97.841	0.190	0.783	-2.2	2.74e6	2556	1071.4	2.78e6	2483	1120.7	bb
22	13C-OCDD	2.33e5	2.60e5	4.94e5	39.86	1.157	0.90	NO	172.939	0.163	0.578	-13.5	2.79e6	1668	1673.0	3.16e6	1927	1640.1	bb
23	13C-2378-TCDF	4.09e5	5.04e5	9.12e5	25.65	0.992	0.81	NO	94.643	0.111	1.724	-5.4	4.15e6	2733	1519.5	5.28e6	1842	2865.8	bb
24	13C-12378-PeCDF	4.53e5	2.93e5	7.46e5	31.02	1.200	1.55	NO	83.305	0.231	1.410	-16.7	6.14e6	5044	1216.5	3.87e6	3792	1021.7	bd
25	13C-123678-HxCDF	2.19e5	4.09e5	6.27e5	33.69	0.978	0.54	NO	90.102	0.179	1.469	-9.9	4.44e6	4090	1085.0	8.52e6	5574	1528.5	dd
26	13C-1234678-HpCDF	1.30e5	2.91e5	4.21e5	35.83	1.040	0.45	NO	91.282	0.228	0.987	-8.7	2.33e6	3833	606.8	5.05e6	4312	1170.7	bb
27	13C-1234-TCDD	2.36e5	2.93e5	5.29e5	25.86	0.000	0.81	NO	100.000	0.244	1.000	0.0	2.52e6	2746	917.4	3.09e6	2769	1116.7	bb
28	13C-123789-HxCDD	2.37e5	1.90e5	4.27e5	34.45	0.000	1.25	NO	100.000	0.241	1.000	0.0	4.59e6	3847	1193.6	3.74e6	4107	910.6	db
29	37Cl-2378-TCDD (SS)	6.19e4		6.19e4	26.58	1.000			10.565	0.0489	1.114	5.7	6.35e5	1138	557.8				bb
30	13C-23478-PeCDF (SS)	4.56e5	2.91e5	7.47e5	31.85	1.027	1.57	NO	107.230	0.234	1.001	7.2	9.57e6	5044	1897.4	6.14e6	3792	1619.4	bb

Quantify Sample Summary Report **MassLynx 4.1**
Method 8290 CCAL Report

Dataset: C:\MassLynx\Default.pro\CCAL Results\8290-b10oct11a-1.qld

Last Altered: Tuesday, October 11, 2011 07:56:17 Eastern Standard Time
Printed: Tuesday, October 11, 2011 07:57:47 Eastern Standard Time

Name: b10oct11a-1, Date: 10-Oct-2011, Time: 13:19:25, ID: CS3WT UD110629-01.1, Description: , Job: b10oct11a, Task: HRP763_1, User: MJC

	Name	Ion1Area	Ion2Area	Response	RT	RRT	RA	Fail?	pg/uL	EDL	RRF	%D	Height1	Noise1	S/N1	Height2	Noise2	S/N2	M
	13C-123478-HxCDF (SS)	1.81e5	3.49e5	5.30e5	33.61	0.998	0.52	NO	104.304	0.234	0.845	4.3	4.23e6	4090	1035.5	7.92e6	5574	1421.8	bd
	13C-123478-HxCDD (SS)	2.25e5	1.81e5	4.05e5	34.20	0.998	1.24	NO	103.020	0.237	0.887	3.0	4.87e6	3847	1266.4	4.00e6	4107	972.8	bd
	13C-1234789-HpCDF (SS)	9.74e4	2.19e5	3.16e5	37.24	1.039	0.45	NO	99.269	0.358	0.751	-0.7	1.47e6	3833	383.1	3.34e6	4312	775.2	bd

Quantify Sample Report **MassLynx 4.1**
Method 8290 CCAL Report

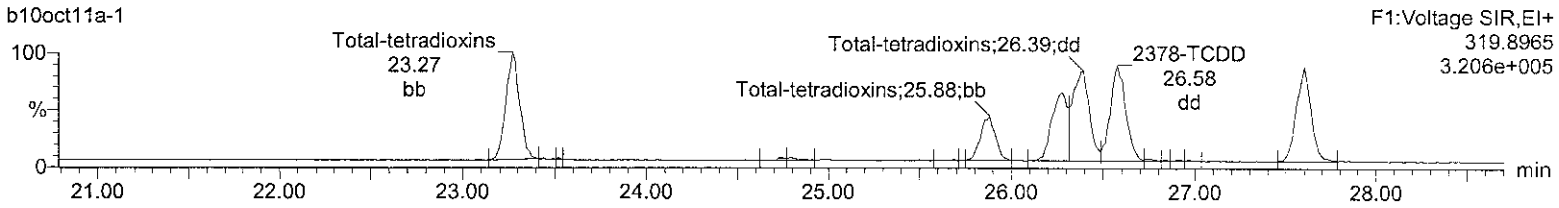
Dataset: C:\MassLynx\Default.pro\CCAL Results\8290-b10oct11a-1.qld

Last Altered: Tuesday, October 11, 2011 07:56:17 Eastern Standard Time
Printed: Tuesday, October 11, 2011 07:57:47 Eastern Standard Time

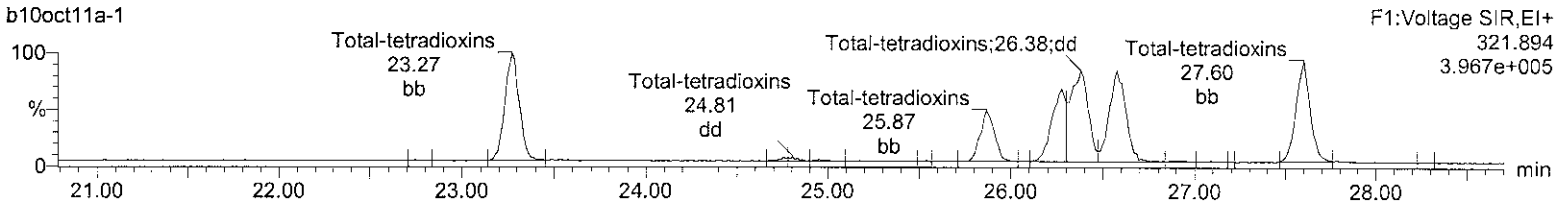
Method: C:\MassLynx\Default.pro\Methdb\CFA_EPA8290_101011.mdb 10 Oct 2011 14:05:54
Calibration: C:\MassLynx\DEFAULT.PRO\CurveDB\8290-b01nov10b.cdb 02 Nov 2010 08:19:01

Name: b10oct11a-1, Date: 10-Oct-2011, Time: 13:19:25, ID: CS3WT UD110629-01.1, Description: , Job: b10oct11a, Task: HRP763_1, User: MJC

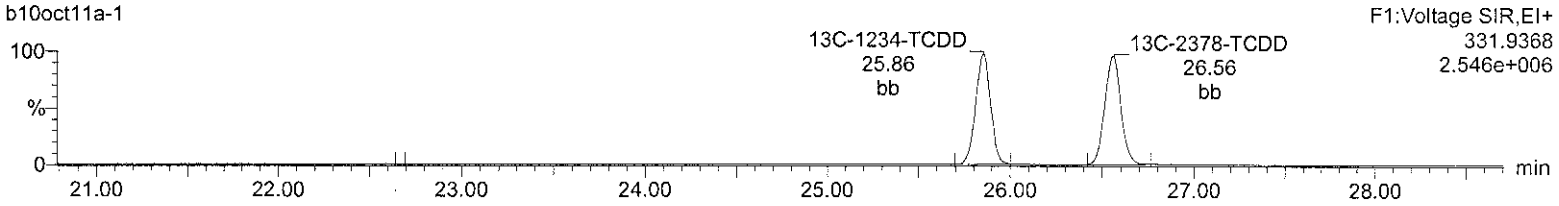
Total-tetradioxins



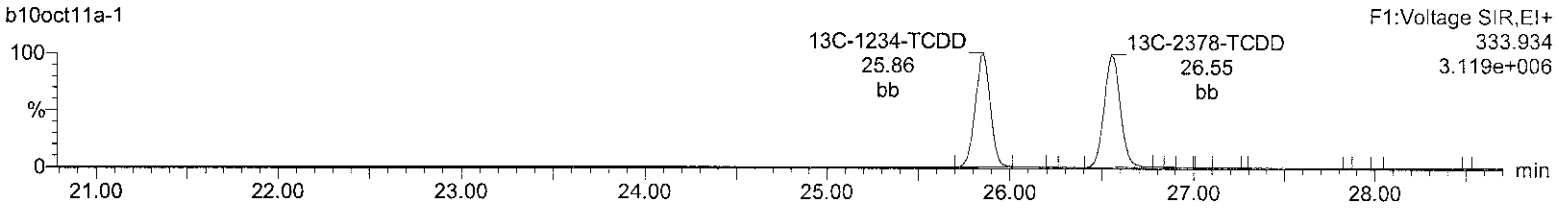
Total-tetradioxins



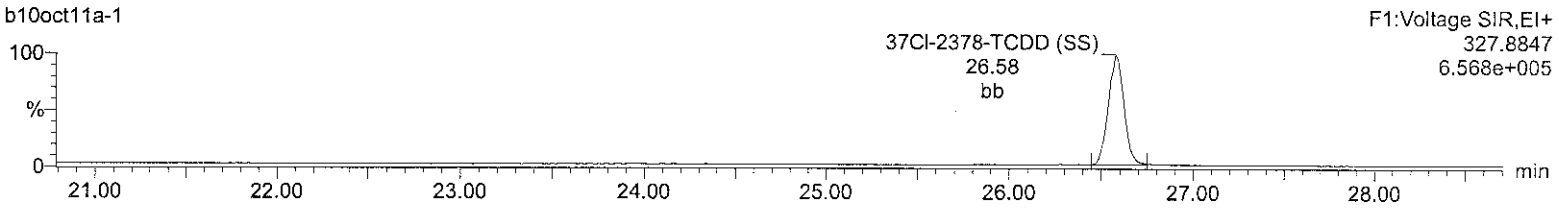
13C-2378-TCDD



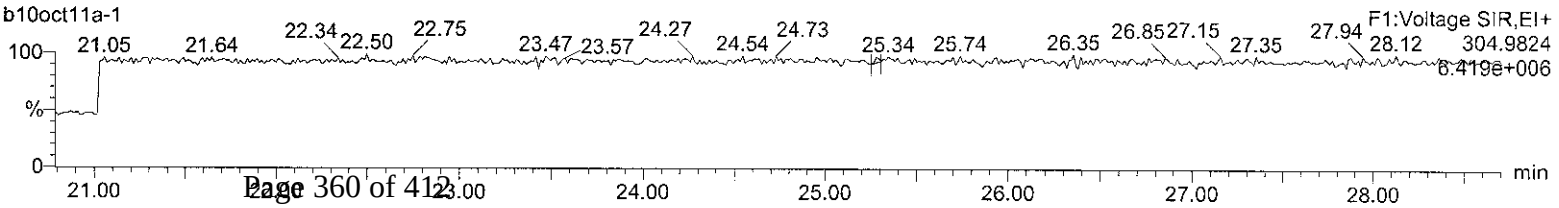
13C-2378-TCDD



37Cl-2378-TCDD (SS)



Lock Mass F1



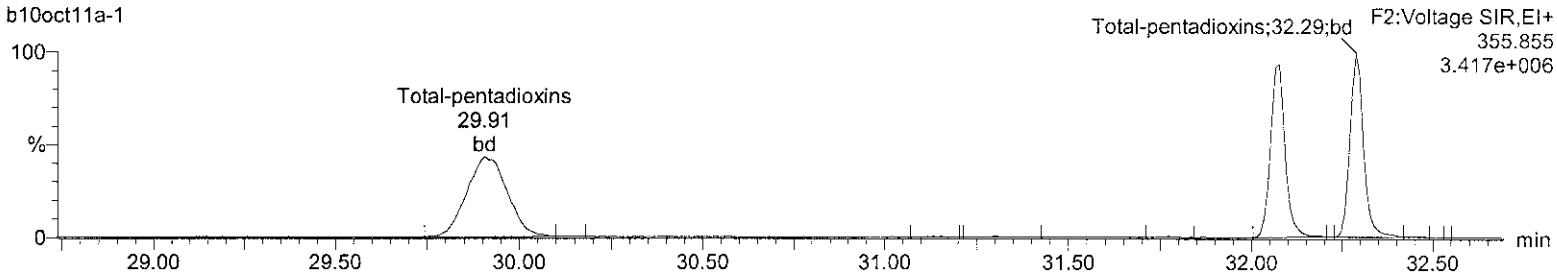
Quantify Sample Report **MassLynx 4.1**
Method 8290 CCAL Report

Dataset: C:\MassLynx\Default.pro\CCAL Results\8290-b10oct11a-1.qld

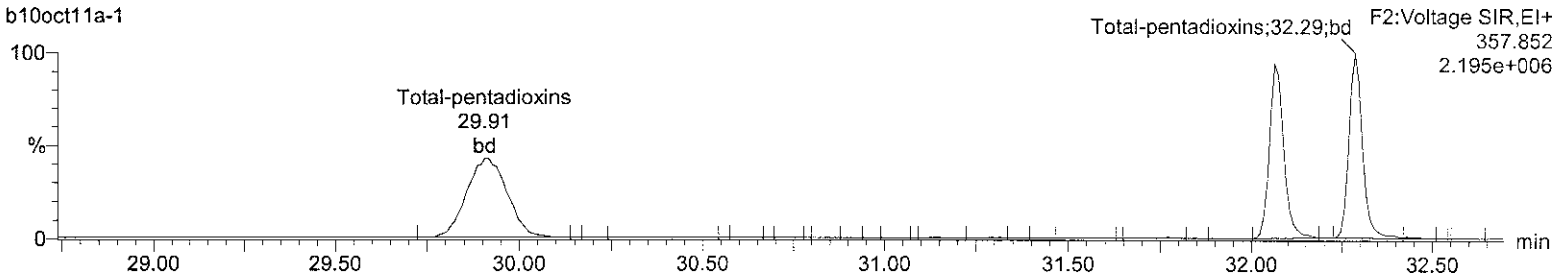
Last Altered: Tuesday, October 11, 2011 07:56:17 Eastern Standard Time
Printed: Tuesday, October 11, 2011 07:57:47 Eastern Standard Time

Name: b10oct11a-1, Date: 10-Oct-2011, Time: 13:19:25, ID: CS3WT UD110629-01.1, Description: , Job: b10oct11a, Task: HRP763_1, User: MJC

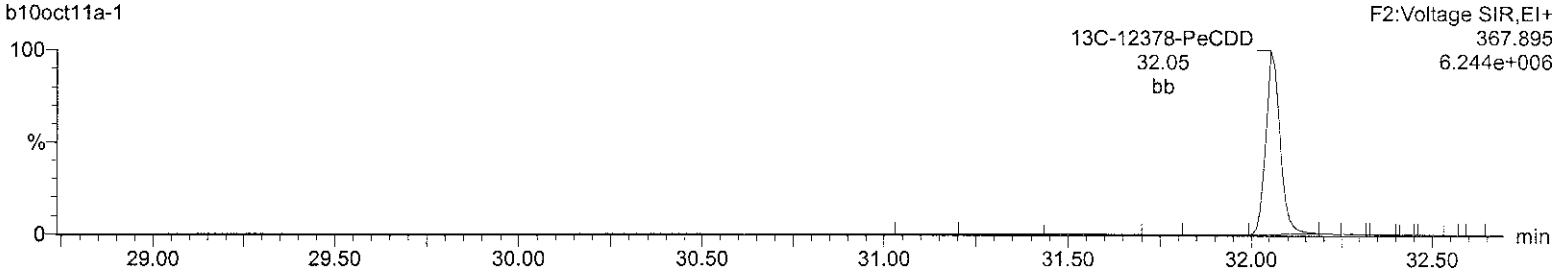
Total-pentadioxins



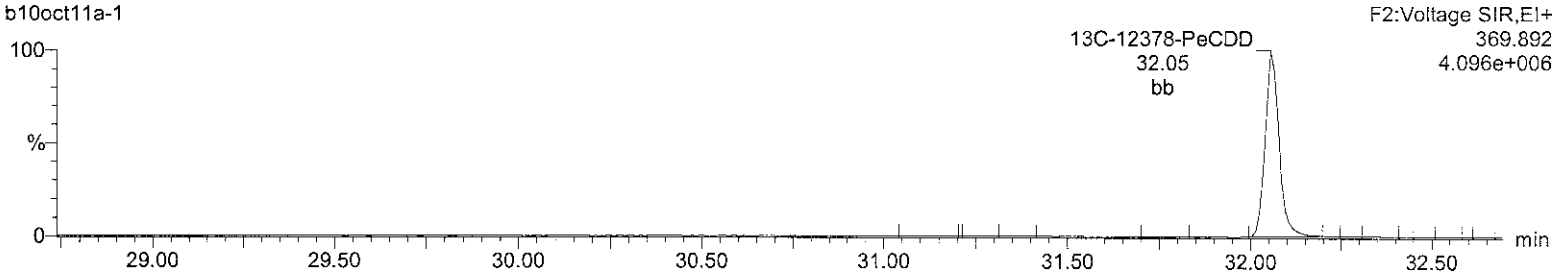
Total-pentadioxins



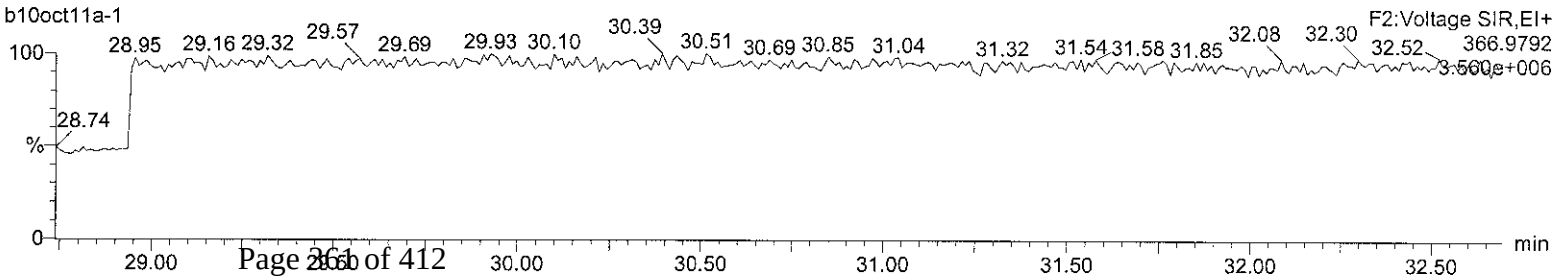
13C-12378-PeCDD



13C-12378-PeCDD



Lock Mass F2



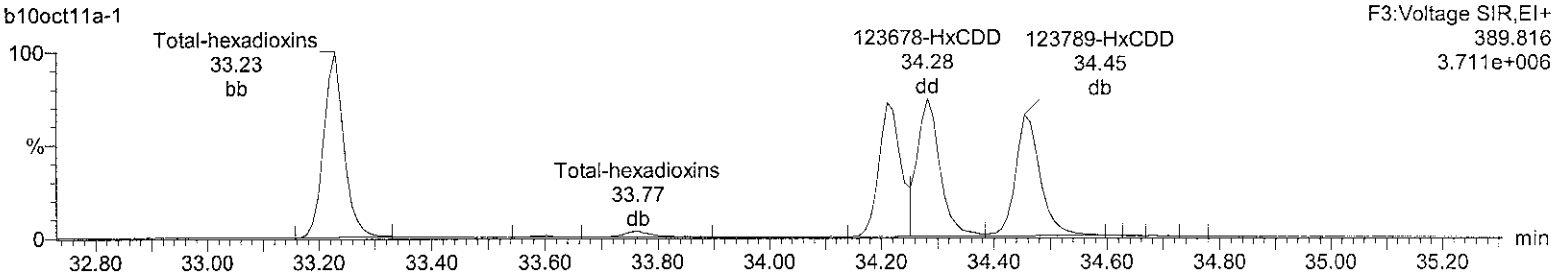
Quantify Sample Report **MassLynx 4.1**
Method 8290 CCAL Report

Dataset: C:\MassLynx\Default.pro\CCAL Results\8290-b10oct11a-1.qld

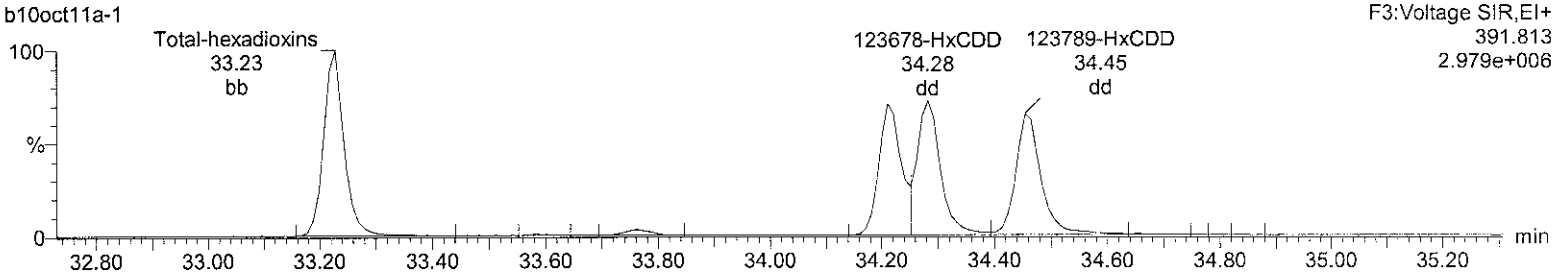
Last Altered: Tuesday, October 11, 2011 07:56:17 Eastern Standard Time
Printed: Tuesday, October 11, 2011 07:57:47 Eastern Standard Time

Name: b10oct11a-1, Date: 10-Oct-2011, Time: 13:19:25, ID: CS3WT UD110629-01.1, Description: , Job: b10oct11a, Task: HRP763_1, User: MJC

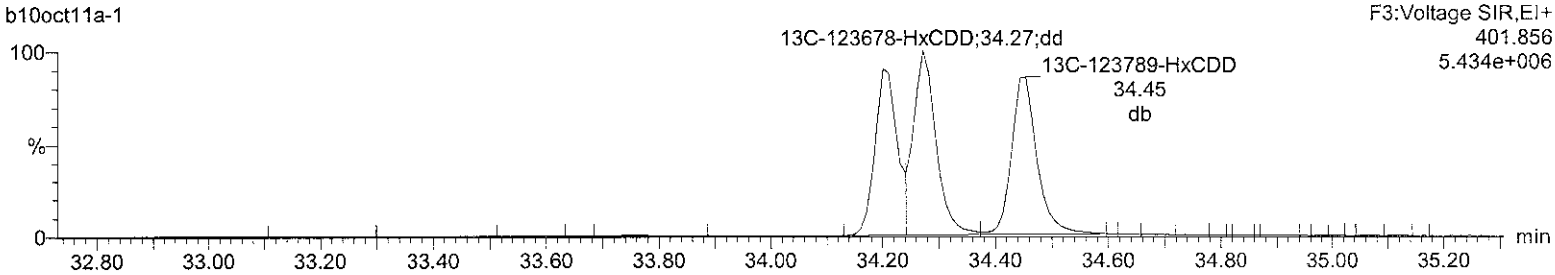
Total-hexadioxins



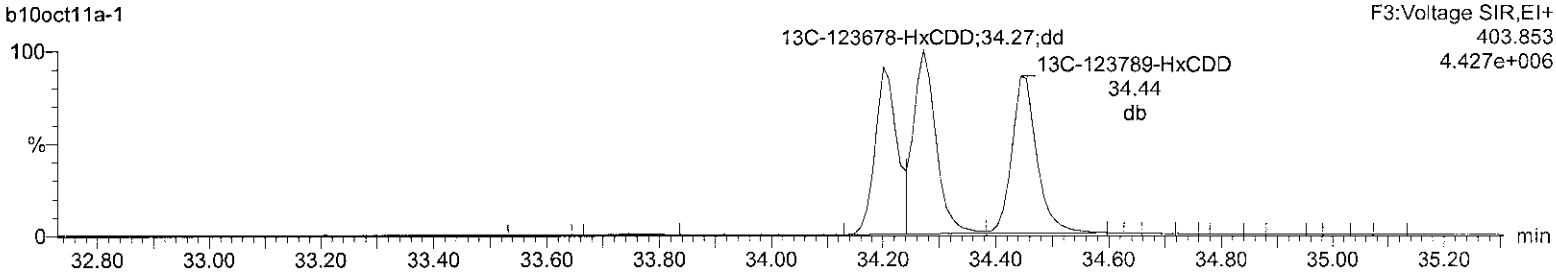
Total-hexadioxins



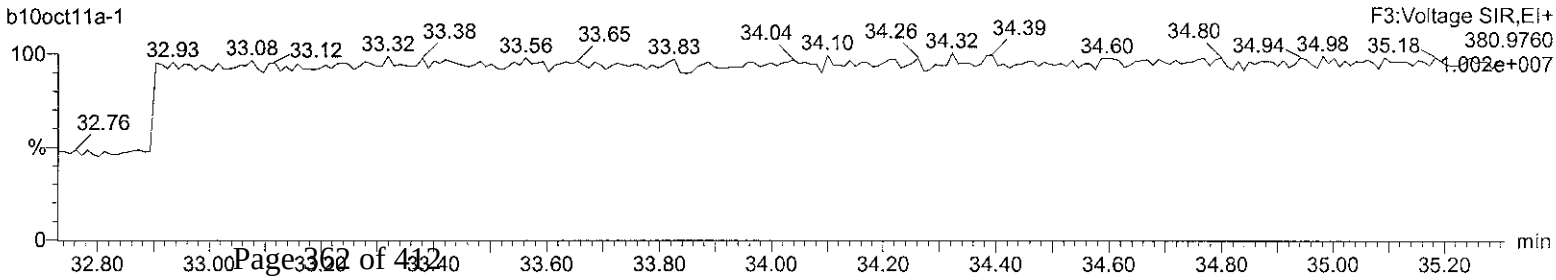
13C-123678-HxCDD



13C-123678-HxCDD



Lock Mass F3



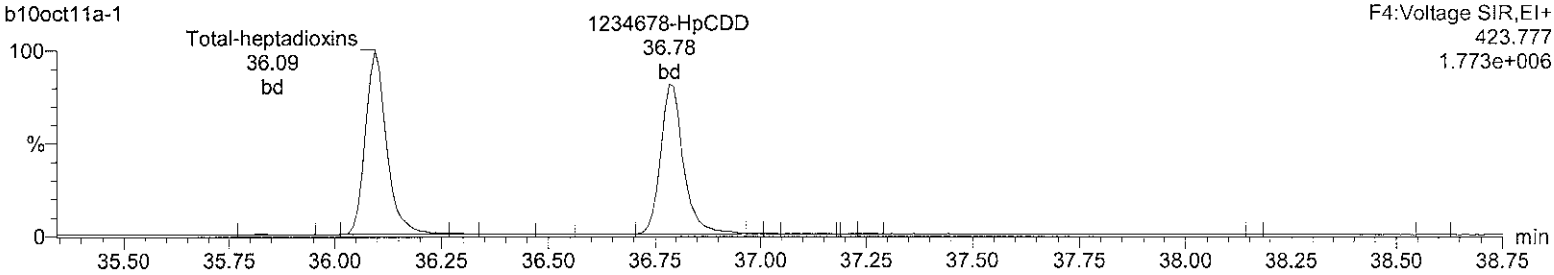
Quantify Sample Report **MassLynx 4.1**
Method 8290 CCAL Report

Dataset: C:\MassLynx\Default.pro\CCAL Results\8290-b10oct11a-1.qld

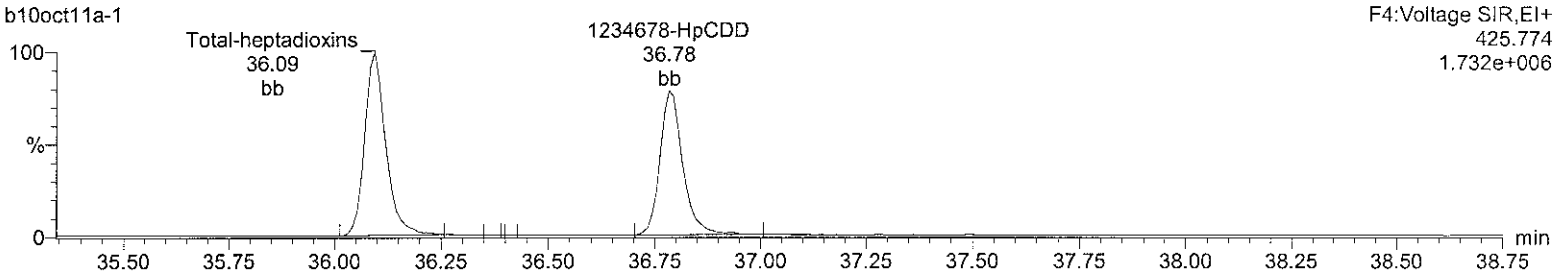
Last Altered: Tuesday, October 11, 2011 07:56:17 Eastern Standard Time
Printed: Tuesday, October 11, 2011 07:57:47 Eastern Standard Time

Name: b10oct11a-1, Date: 10-Oct-2011, Time: 13:19:25, ID: CS3WT UD110629-01.1, Description: , Job: b10oct11a, Task: HRP763_1, User: MJC

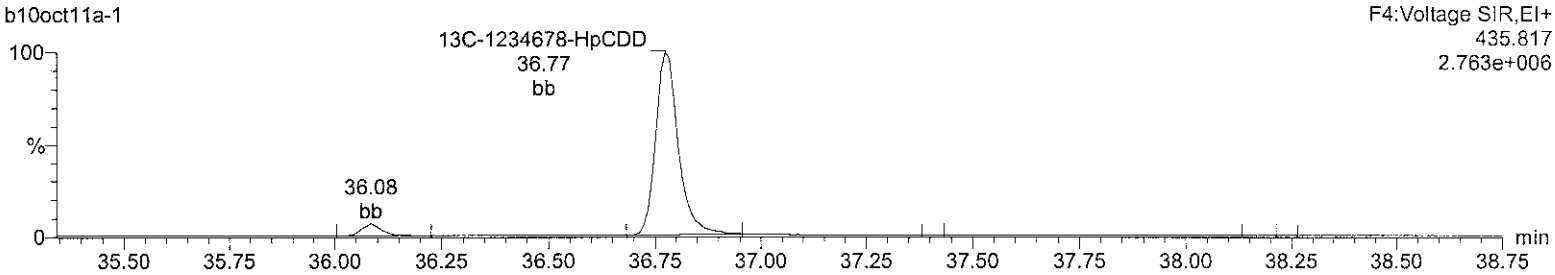
Total-heptadioxins



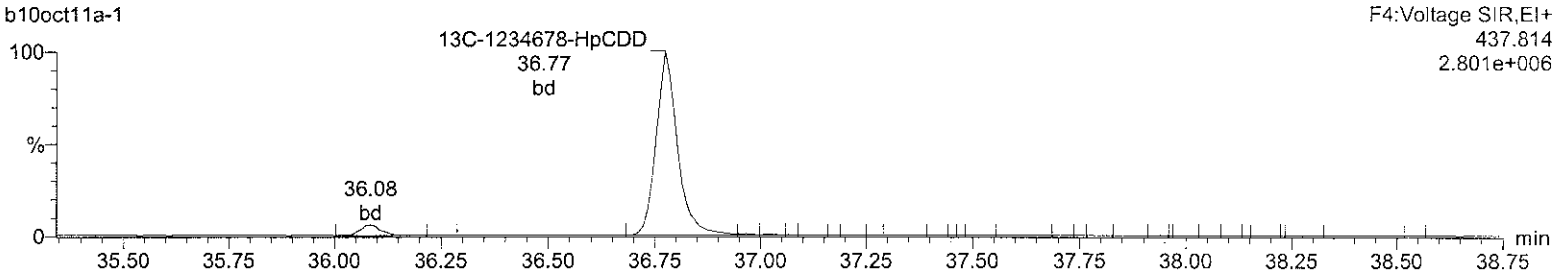
Total-heptadioxins



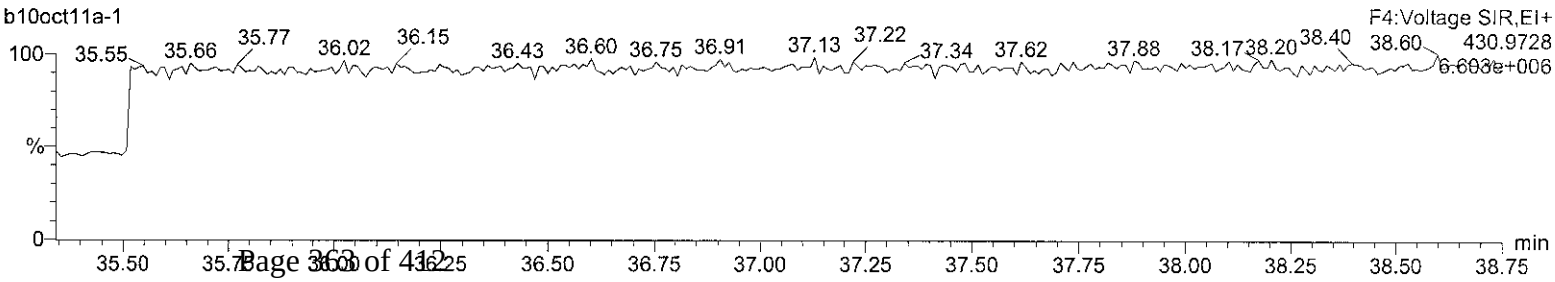
13C-1234678-HpCDD



13C-1234678-HpCDD



Lock Mass F4



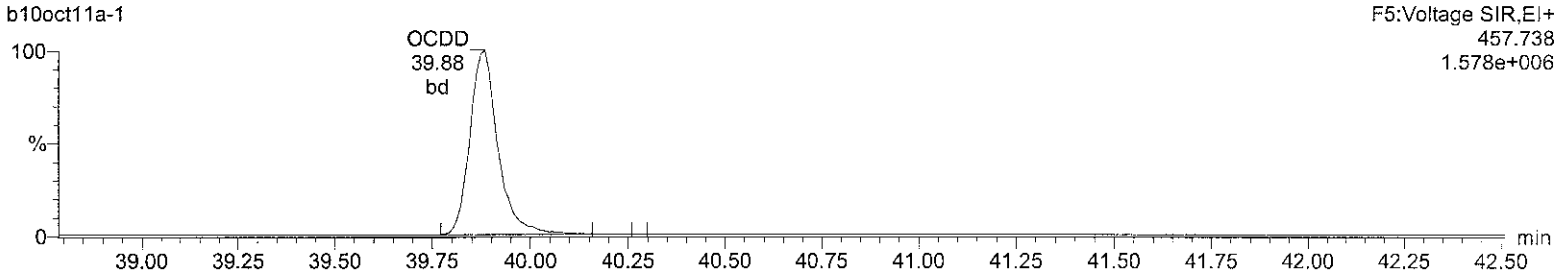
Quantify Sample Report **MassLynx 4.1**
Method 8290 CCAL Report

Dataset: C:\MassLynx\Default.pro\CCAL Results\8290-b10oct11a-1.qld

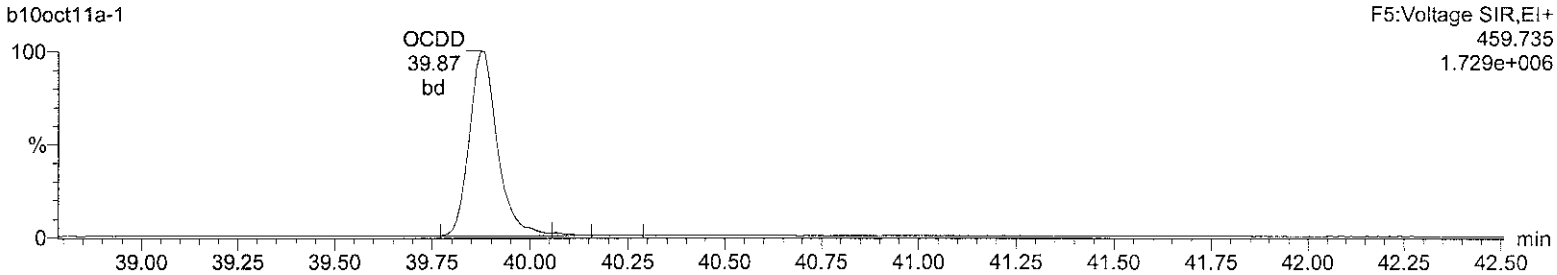
Last Altered: Tuesday, October 11, 2011 07:56:17 Eastern Standard Time
Printed: Tuesday, October 11, 2011 07:57:47 Eastern Standard Time

Name: b10oct11a-1, Date: 10-Oct-2011, Time: 13:19:25, ID: CS3WT UD110629-01.1, Description: , Job: b10oct11a, Task: HRP763_1, User: MJC

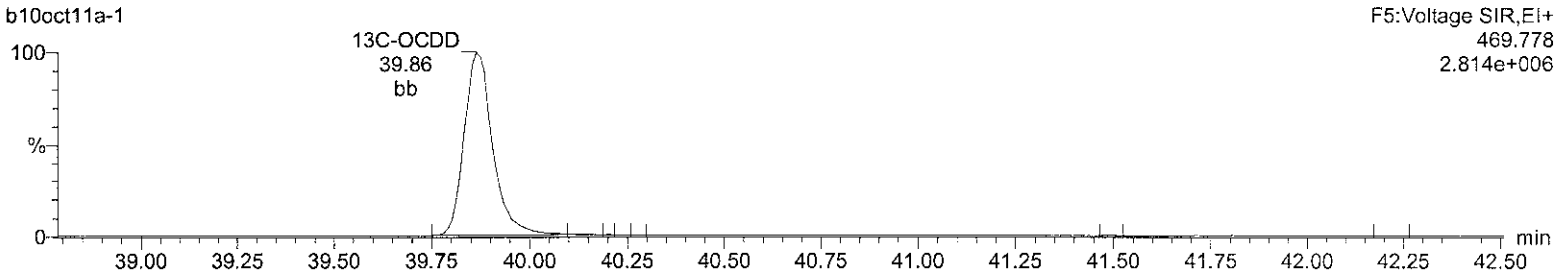
OCDD



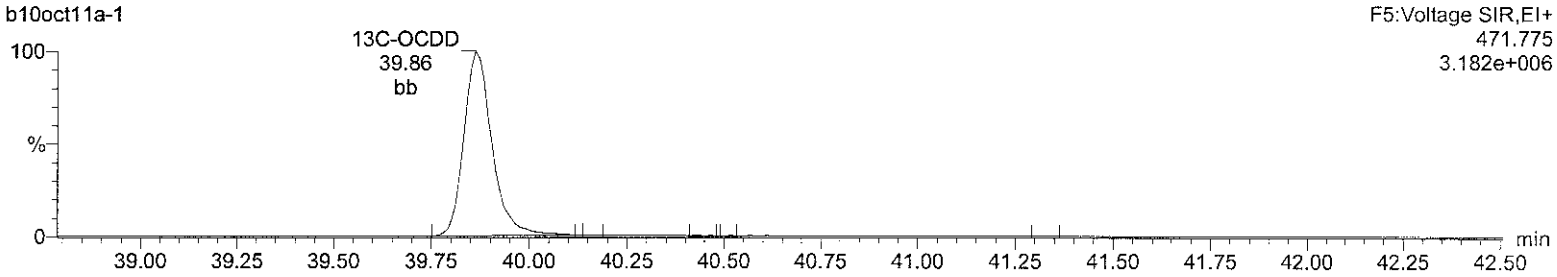
OCDD



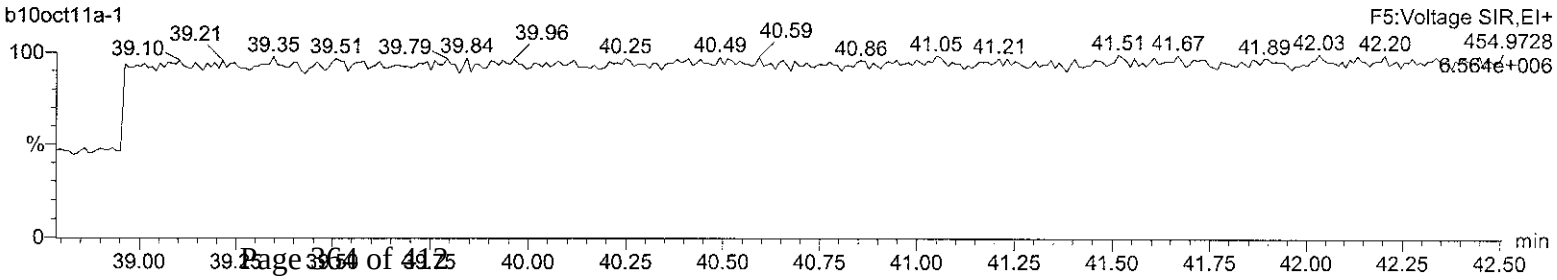
13C-OCDD



13C-OCDD



Lock Mass F5



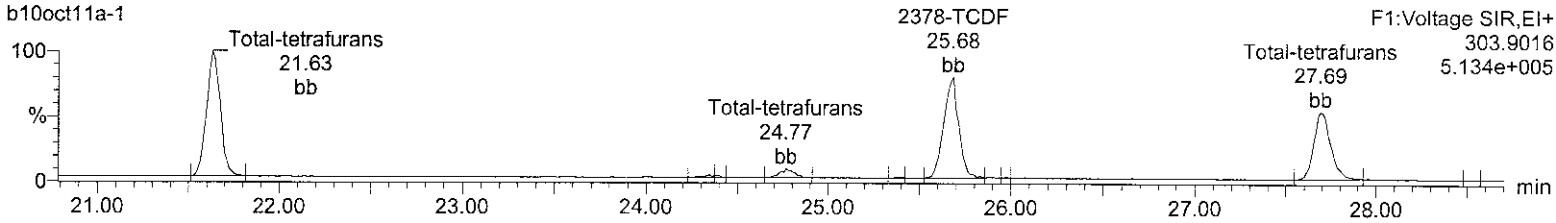
Quantify Sample Report **MassLynx 4.1**
Method 8290 CCAL Report

Dataset: C:\MassLynx\Default.pro\CCAL Results\8290-b10oct11a-1.qld

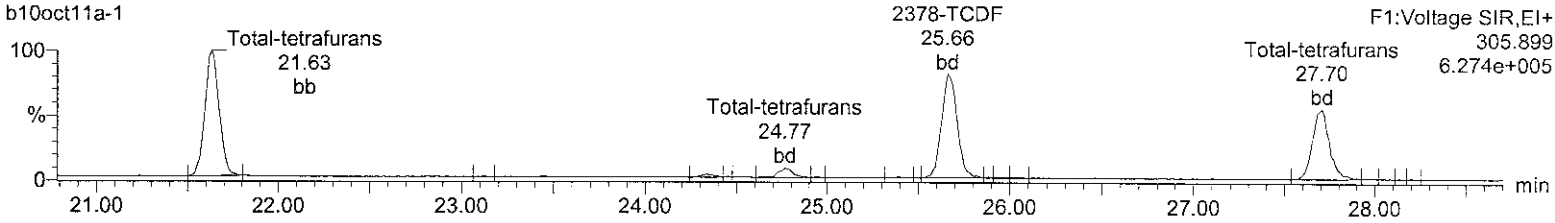
Last Altered: Tuesday, October 11, 2011 07:56:17 Eastern Standard Time
Printed: Tuesday, October 11, 2011 07:57:47 Eastern Standard Time

Name: b10oct11a-1, Date: 10-Oct-2011, Time: 13:19:25, ID: CS3WT UD110629-01.1, Description: , Job: b10oct11a, Task: HRP763_1, User: MJC

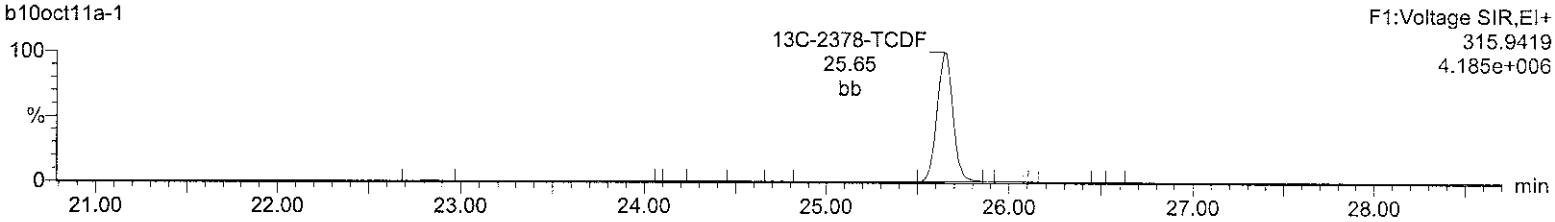
Total-tetrafurans



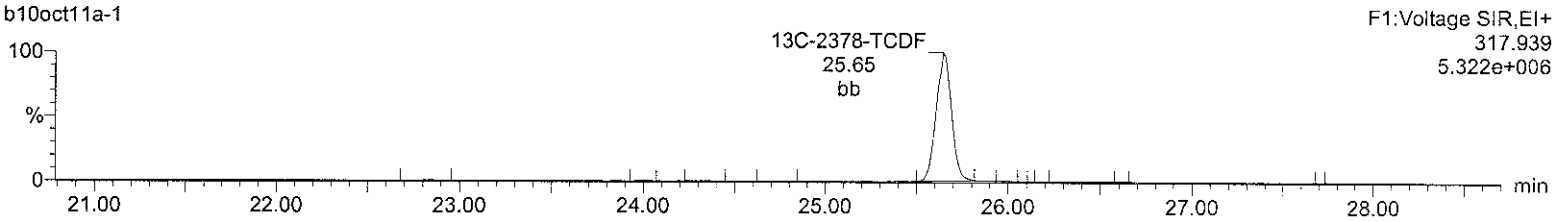
Total-tetrafurans



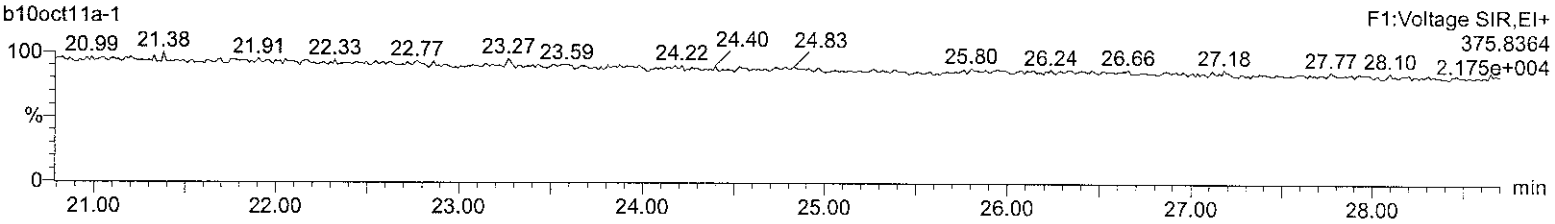
13C-2378-TCDF



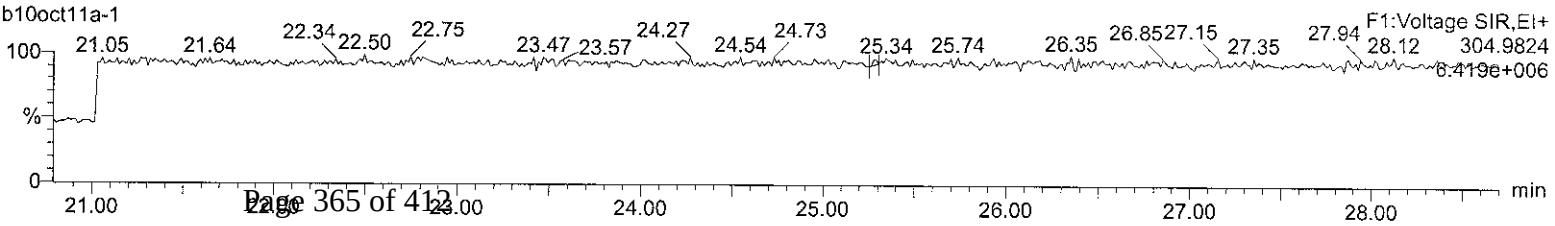
13C-2378-TCDF



HxDPE



Lock Mass F1



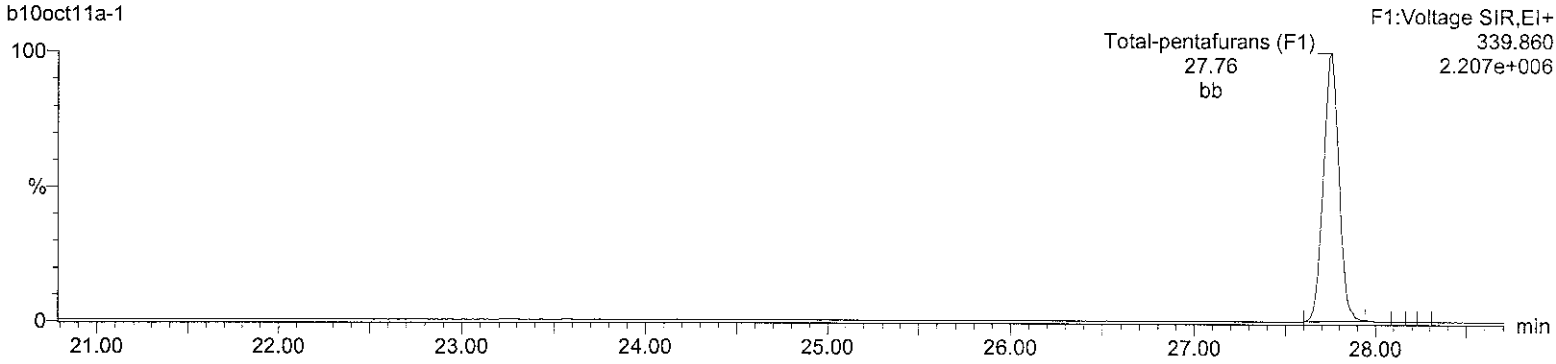
Quantify Sample Report **MassLynx 4.1**
Method 8290 CCAL Report

Dataset: C:\MassLynx\Default.pro\CCAL Results\8290-b10oct11a-1.qld

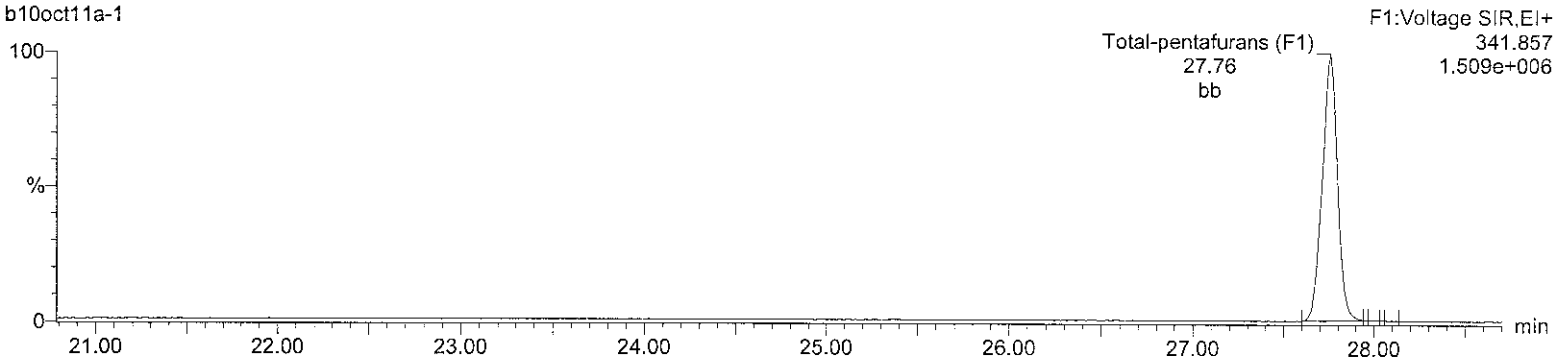
Last Altered: Tuesday, October 11, 2011 07:56:17 Eastern Standard Time
Printed: Tuesday, October 11, 2011 07:57:47 Eastern Standard Time

Name: b10oct11a-1, Date: 10-Oct-2011, Time: 13:19:25, ID: CS3WT UD110629-01.1, Description: , Job: b10oct11a, Task: HRP763_1, User: MJC

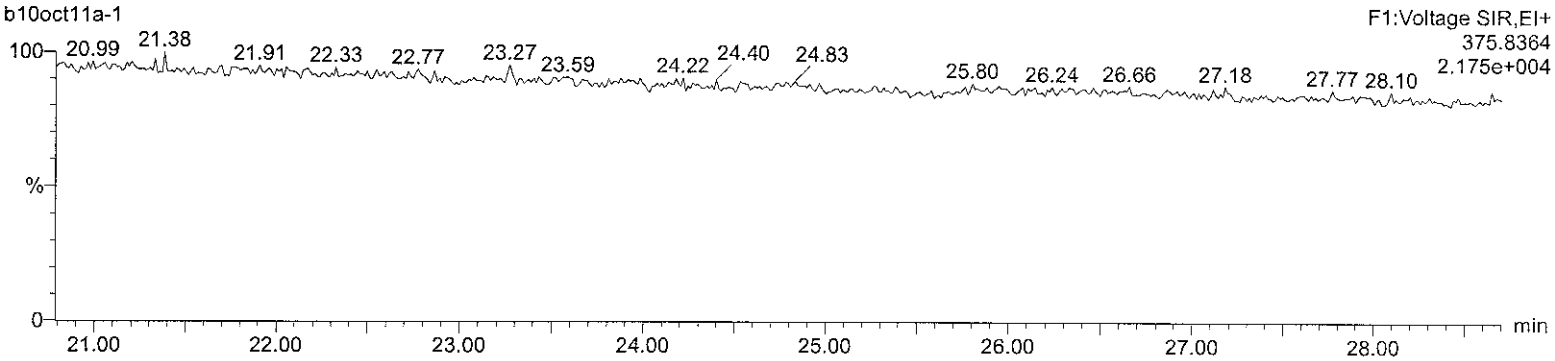
Total-pentafurans (F1)



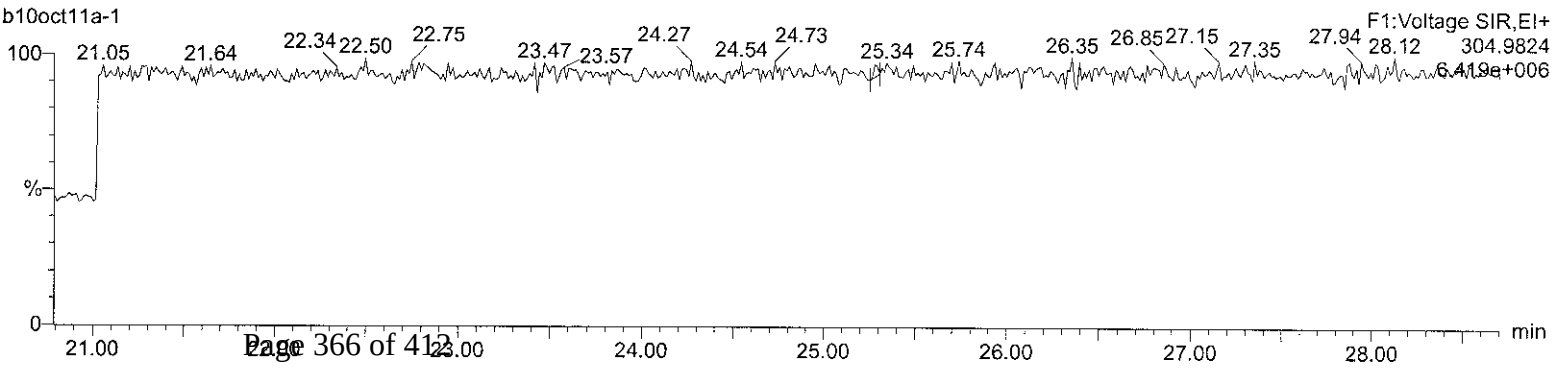
Total-pentafurans (F1)



HxDPE



Lock Mass F1



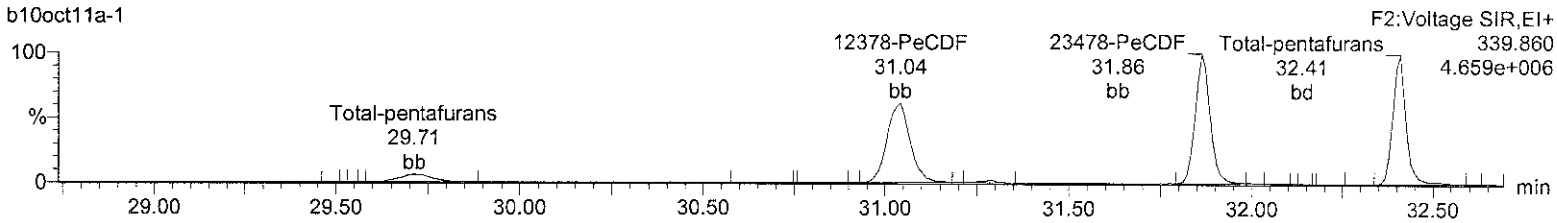
Quantify Sample Report **MassLynx 4.1**
Method 8290 CCAL Report

Dataset: C:\MassLynx\Default.pro\CCAL Results\8290-b10oct11a-1.qld

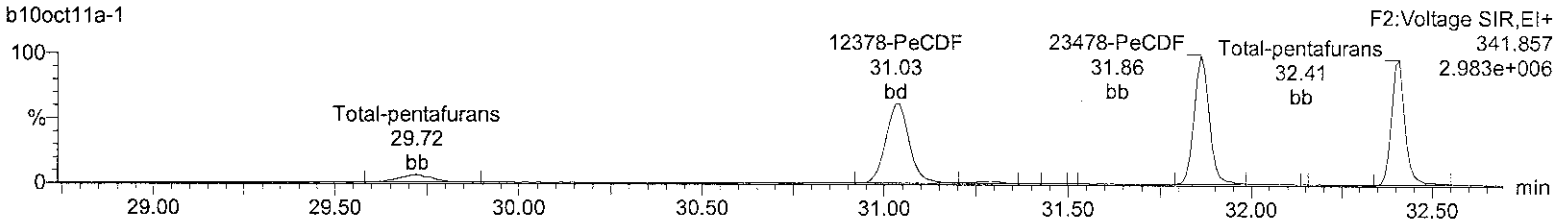
Last Altered: Tuesday, October 11, 2011 07:56:17 Eastern Standard Time
Printed: Tuesday, October 11, 2011 07:57:47 Eastern Standard Time

Name: b10oct11a-1, Date: 10-Oct-2011, Time: 13:19:25, ID: CS3WT UD110629-01.1, Description: , Job: b10oct11a, Task: HRP763_1, User: MJC

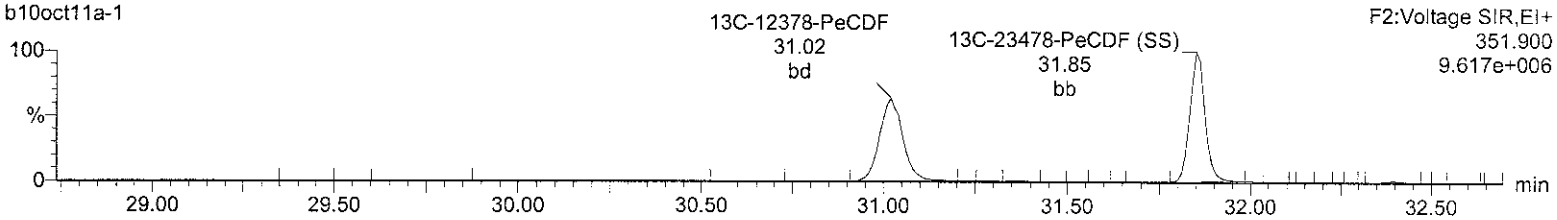
Total-pentafurans



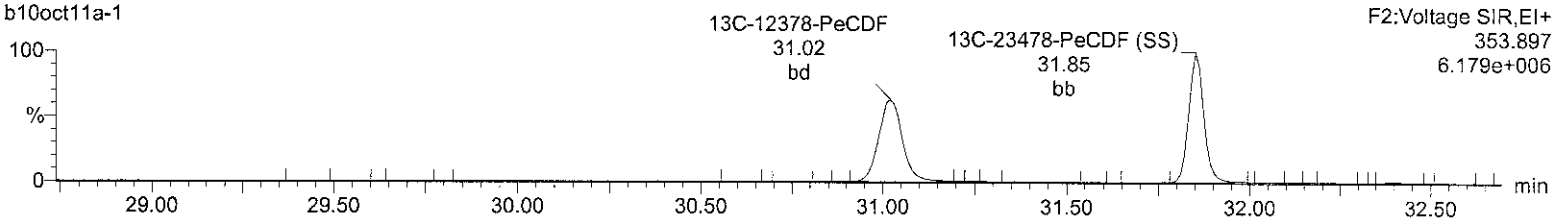
Total-pentafurans



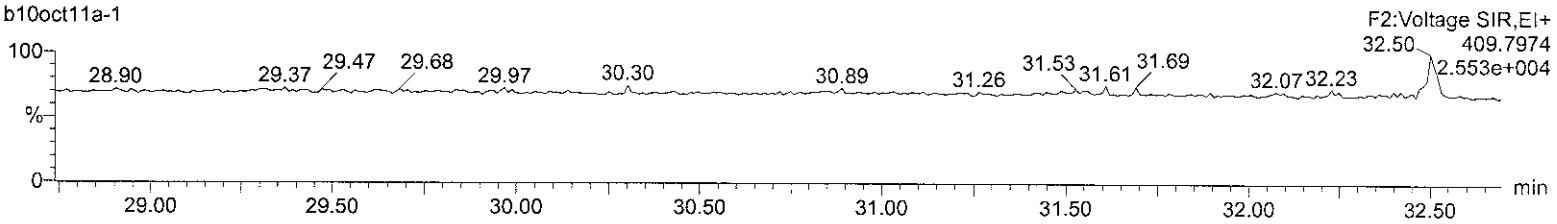
13C-12378-PeCDF



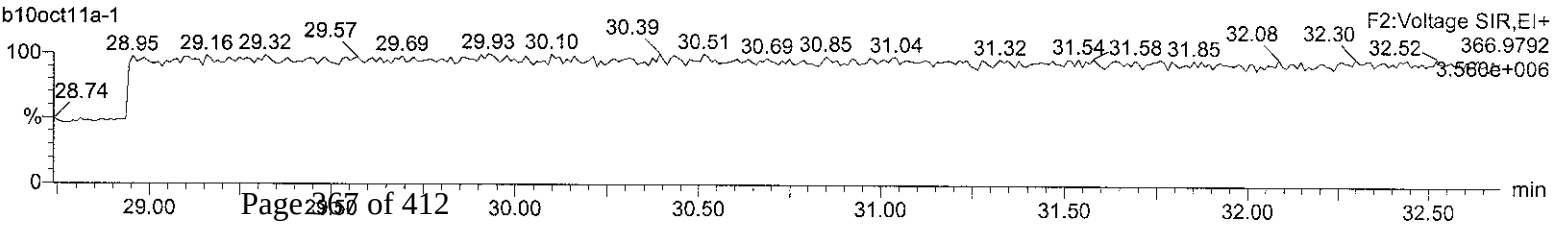
13C-12378-PeCDF



HpDPE



Lock Mass F2



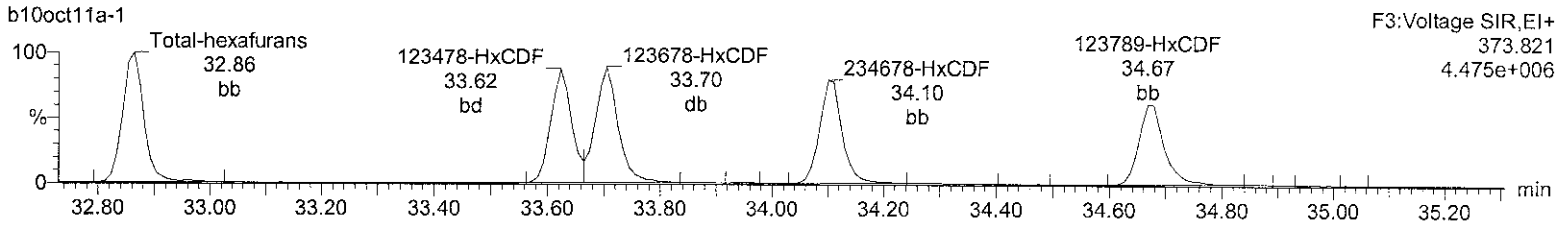
Quantify Sample Report **MassLynx 4.1**
Method 8290 CCAL Report

Dataset: C:\MassLynx\Default.pro\CCAL Results\8290-b10oct11a-1.qld

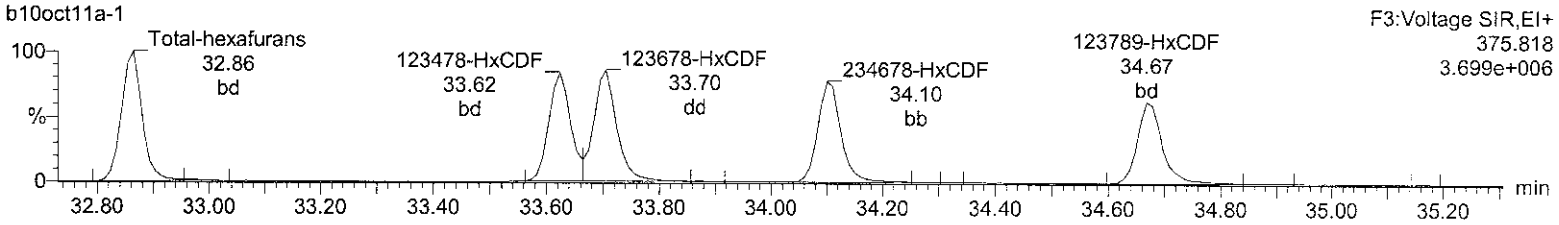
Last Altered: Tuesday, October 11, 2011 07:56:17 Eastern Standard Time
Printed: Tuesday, October 11, 2011 07:57:47 Eastern Standard Time

Name: b10oct11a-1, Date: 10-Oct-2011, Time: 13:19:25, ID: CS3WT UD110629-01.1, Description: , Job: b10oct11a, Task: HRP763_1, User: MJC

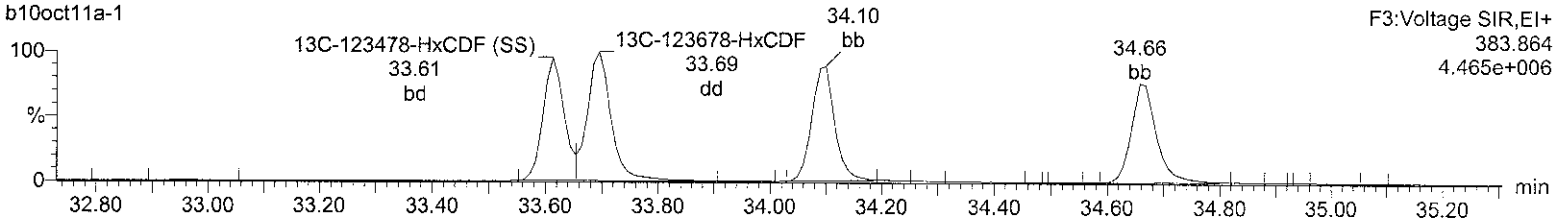
Total-hexafurans



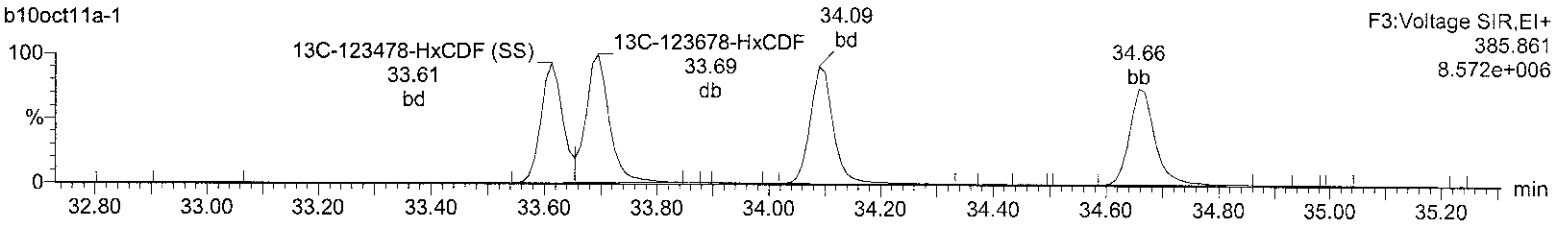
Total-hexafurans



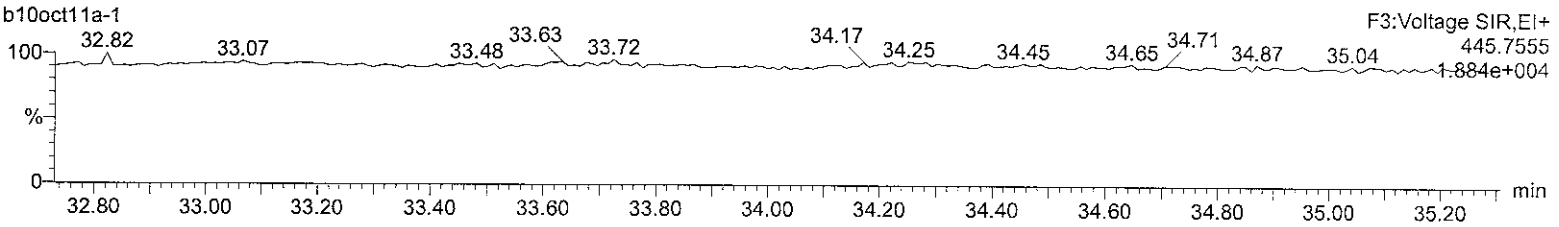
13C-123678-HxCDF



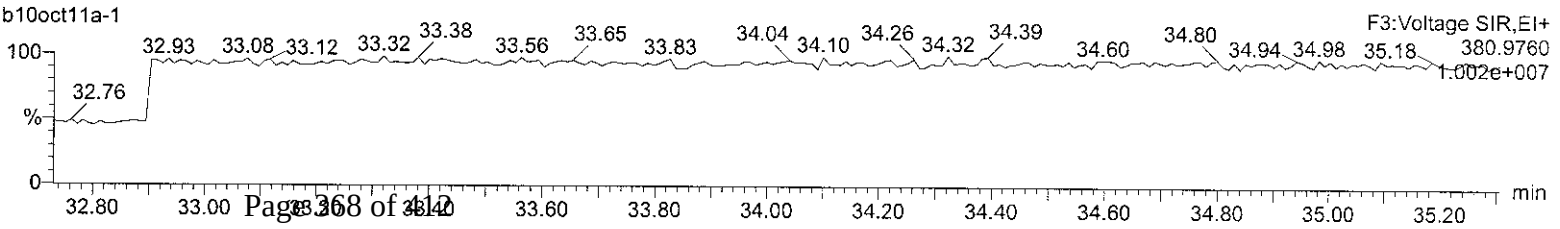
13C-123678-HxCDF



OcDPE



Lock Mass F3



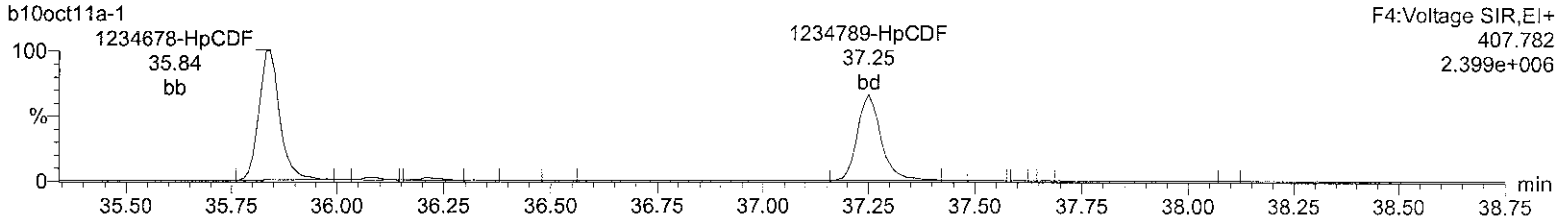
Quantify Sample Report **MassLynx 4.1**
Method 8290 CCAL Report

Dataset: C:\MassLynx\Default.pro\CCAL Results\8290-b10oct11a-1.qld

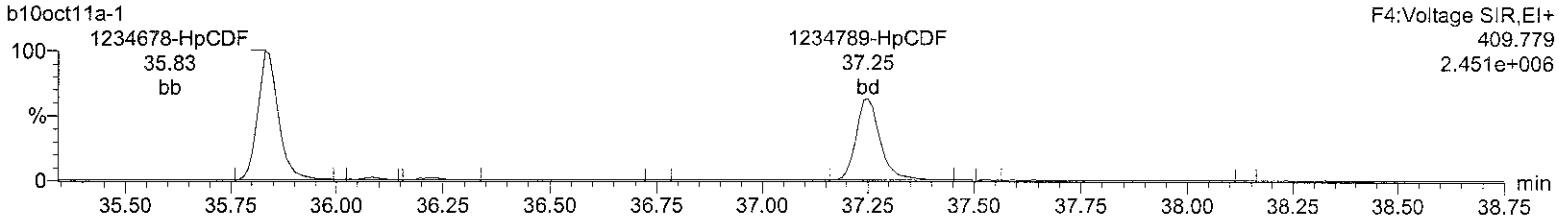
Last Altered: Tuesday, October 11, 2011 07:56:17 Eastern Standard Time
Printed: Tuesday, October 11, 2011 07:57:47 Eastern Standard Time

Name: b10oct11a-1, Date: 10-Oct-2011, Time: 13:19:25, ID: CS3WT UD110629-01.1, Description: , Job: b10oct11a, Task: HRP763_1, User: MJC

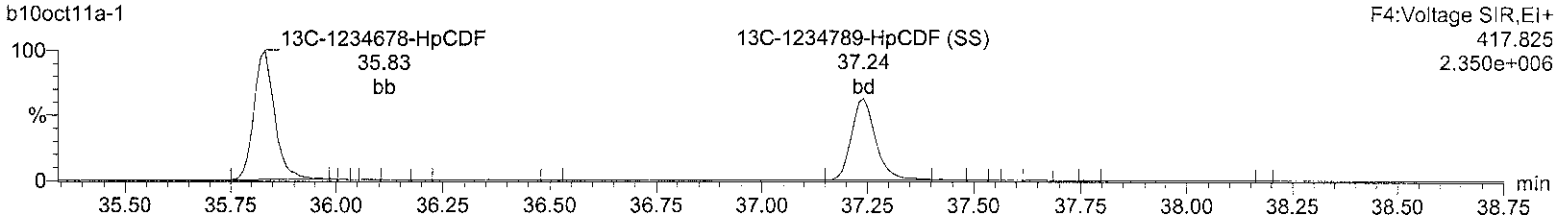
Total-heptafurans



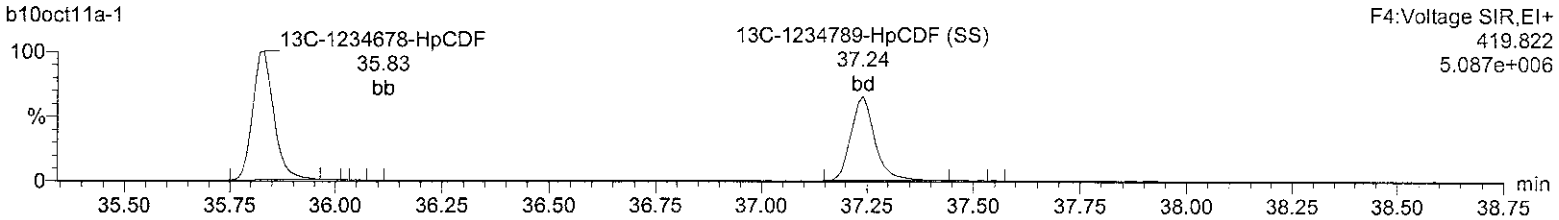
Total-heptafurans



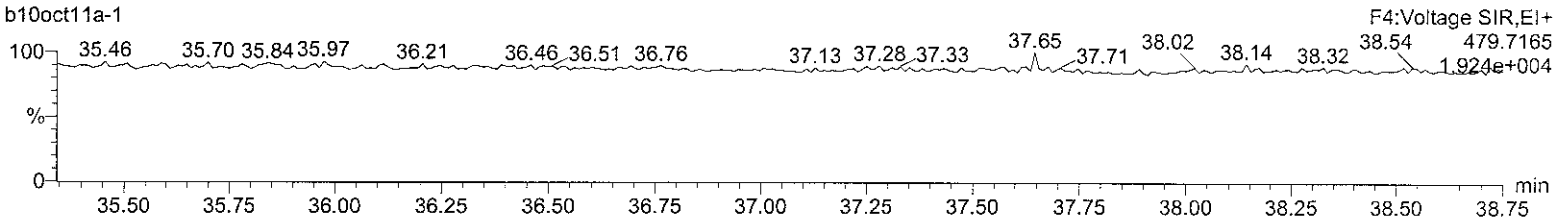
13C-1234678-HpCDF



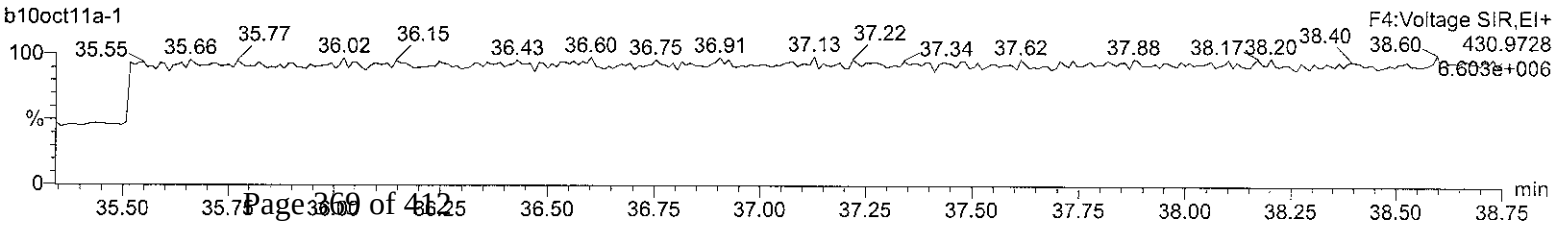
13C-1234678-HpCDF



NoDPE



Lock Mass F4



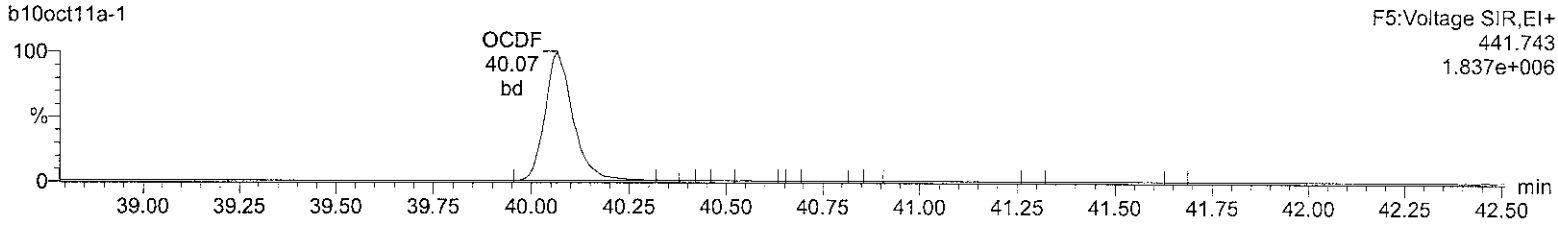
Quantify Sample Report **MassLynx 4.1**
Method 8290 CCAL Report

Dataset: C:\MassLynx\Default.pro\CCAL Results\8290-b10oct11a-1.qld

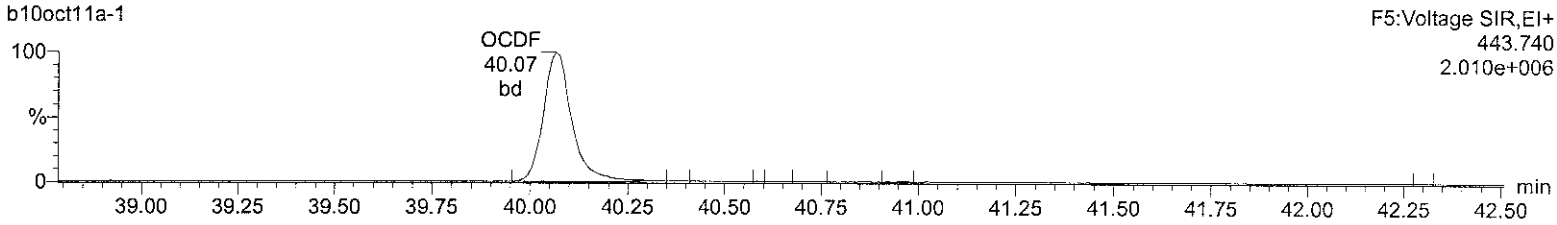
Last Altered: Tuesday, October 11, 2011 07:56:17 Eastern Standard Time
Printed: Tuesday, October 11, 2011 07:57:47 Eastern Standard Time

Name: b10oct11a-1, Date: 10-Oct-2011, Time: 13:19:25, ID: CS3WT UD110629-01.1, Description: , Job: b10oct11a, Task: HRP763_1, User: MJC

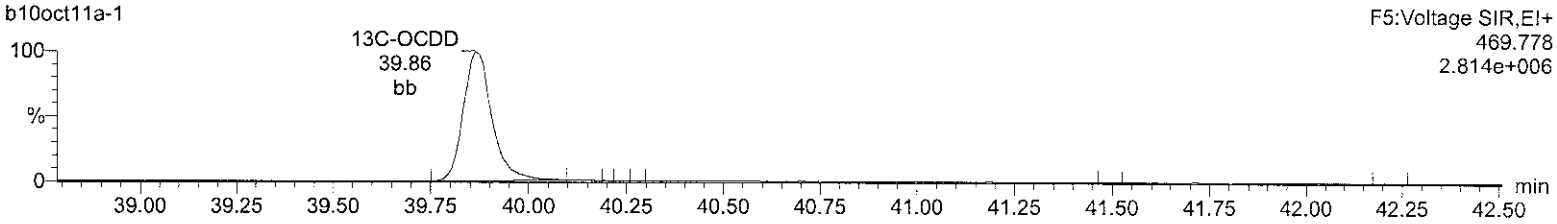
OCDF



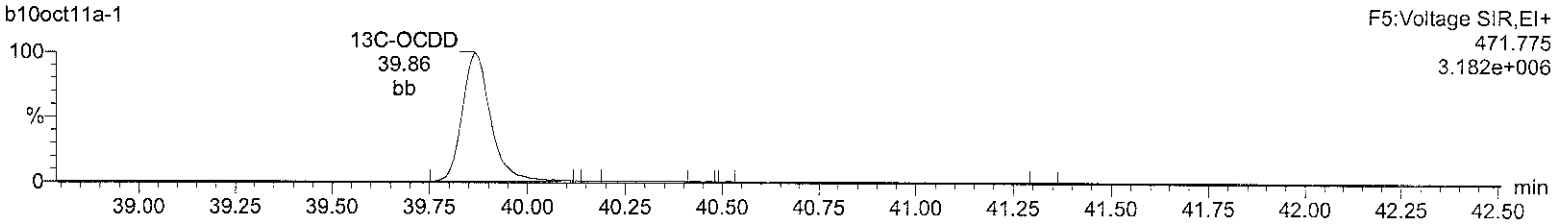
OCDF



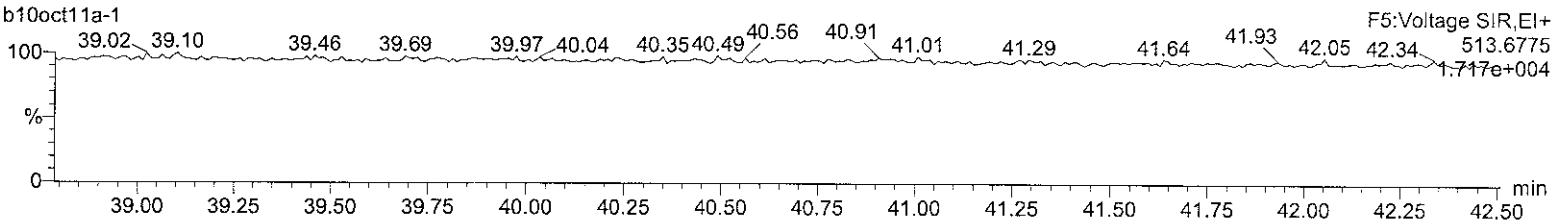
13C-OCDD



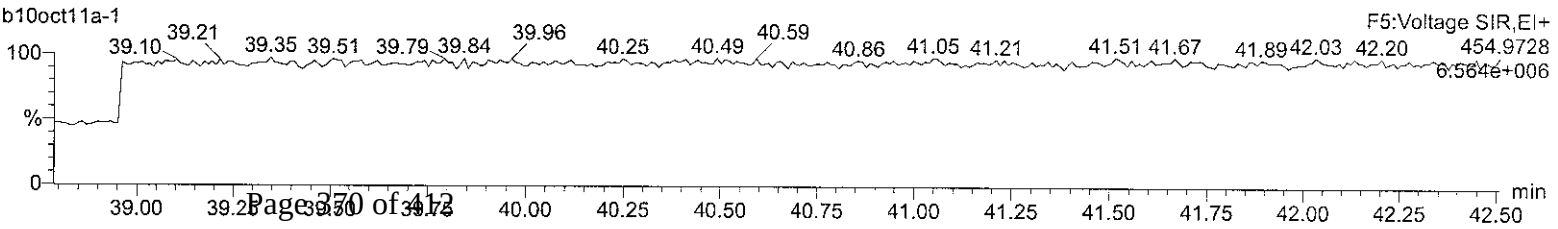
13C-OCDD



DeDPE



Lock Mass F5



Quantify Sample Summary Report **MassLynx 4.1**
Method 8290 CCAL Report

Dataset: C:\MassLynx\Default.pro\CCAL Results\8290-b10oct11a-15.qld

Last Altered: Tuesday, October 11, 2011 08:00:49 Eastern Standard Time
Printed: Tuesday, October 11, 2011 08:02:53 Eastern Standard Time

Method: C:\MassLynx\DEFAULT.PRO\MethDB\CFA_EPA8290_101011.mdb 10 Oct 2011 14:05:54
Calibration: C:\MassLynx\DEFAULT.PRO\CurveDB\8290-b01nov10b.cdb 02 Nov 2010 08:19:01

Name: b10oct11a-15, Date: 10-Oct-2011, Time: 23:44:57, ID: CS3WT UD110629-01.1, Description: , Job: b10oct11a, Task: HRP763_1, User: MJC

	Name	Ion1Area	Ion2Area	Response	RT	RRT	RA	Fail?	pg/uL	EDL	RRF	%D	Height1	Noise1	S/N1	Height2	Noise2	S/N2	M
1	2378-TCDD	2.91e4	3.63e4	6.54e4	26.59	1.001	0.80	NO	10.716	0.296	1.085	7.2	2.79e5	1693	164.6	3.58e5	5220	68.6	db
2	12378-PeCDD	1.80e5	1.15e5	2.94e5	32.07	1.000	1.56	NO	50.846	0.0898	1.049	1.7	3.90e6	2670	1460.6	2.54e6	1935	1313.1	bb
3	123478-HxCDD	1.60e5	1.30e5	2.90e5	34.21	0.998	1.24	NO	57.481	0.149	1.031	15.0	3.35e6	3810	878.4	2.74e6	2620	1044.3	bd
4	123678-HxCDD	1.55e5	1.27e5	2.81e5	34.28	1.000	1.22	NO	51.652	0.138	1.000	3.3	3.40e6	3810	892.5	2.74e6	2620	1044.6	dd
5	123789-HxCDD	1.62e5	1.29e5	2.91e5	34.47	1.006	1.26	NO	59.686	0.154	1.033	19.4	3.37e6	3810	885.2	2.70e6	2620	1030.7	db
6	1234678-HpCDD	1.31e5	1.30e5	2.61e5	36.79	1.000	1.01	NO	51.644	0.139	1.038	3.3	2.21e6	2190	1011.2	2.25e6	2683	837.2	bb
7	OCDD	2.15e5	2.39e5	4.54e5	39.90	1.001	0.90	NO	110.209	0.156	1.097	10.2	2.67e6	1505	1773.3	3.07e6	1750	1754.1	bb
8	2378-TCDF	4.13e4	5.30e4	9.43e4	25.67	1.001	0.78	NO	9.556	0.0881	0.940	-4.4	4.01e5	1550	258.7	5.34e5	1851	288.3	bb
9	12378-PeCDF	2.50e5	1.56e5	4.06e5	31.04	1.000	1.61	NO	51.096	0.247	0.955	2.2	3.44e6	3696	931.2	2.12e6	6991	303.8	bd
10	23478-PeCDF	2.61e5	1.67e5	4.28e5	31.86	1.027	1.56	NO	55.036	0.252	1.006	10.1	5.42e6	3696	1465.2	3.52e6	6991	503.5	bb
11	123478-HxCDF	2.09e5	1.69e5	3.78e5	33.62	0.998	1.24	NO	55.817	0.163	1.014	11.6	4.60e6	4888	940.3	3.79e6	4604	823.3	bd
12	123678-HxCDF	2.25e5	1.80e5	4.04e5	33.71	1.000	1.25	NO	51.359	0.140	1.086	2.7	4.98e6	4888	1017.9	4.03e6	4604	875.0	db
13	234678-HxCDF	2.19e5	1.78e5	3.97e5	34.11	1.012	1.23	NO	55.792	0.155	1.066	11.6	4.73e6	4888	967.1	3.81e6	4604	828.2	bb
14	123789-HxCDF	1.96e5	1.56e5	3.52e5	34.68	1.029	1.25	NO	59.671	0.187	0.945	19.3	3.84e6	4888	785.8	3.10e6	4604	673.4	bb
15	1234678-HpCDF	1.88e5	1.86e5	3.74e5	35.84	1.000	1.01	NO	50.145	0.116	1.280	0.3	3.43e6	3496	981.6	3.39e6	2784	1217.6	bb
16	1234789-HpCDF	1.57e5	1.53e5	3.10e5	37.25	1.040	1.03	NO	57.053	0.159	1.061	14.1	2.51e6	3496	718.0	2.35e6	2784	842.9	bb
17	OCDF	2.45e5	2.69e5	5.14e5	40.09	1.005	0.91	NO	100.811	0.140	1.242	0.8	3.08e6	1549	1991.1	3.27e6	2064	1586.2	bb
18	13C-2378-TCDD	2.65e5	3.37e5	6.03e5	26.56	1.027	0.79	NO	91.162	0.184	1.021	-8.8	2.54e6	2666	951.8	3.24e6	2119	1530.0	bb
19	13C-12378-PeCDD	3.43e5	2.18e5	5.61e5	32.06	1.240	1.58	NO	100.060	0.157	0.951	0.1	7.60e6	2362	3218.5	4.75e6	1115	4258.8	bb
20	13C-123678-HxCDD	3.11e5	2.52e5	5.63e5	34.27	0.995	1.23	NO	90.759	0.129	1.009	-9.2	6.66e6	3345	1991.2	5.36e6	3402	1574.7	MM
21	13C-1234678-HpCDD	2.61e5	2.42e5	5.03e5	36.78	1.068	1.08	NO	112.683	0.140	0.902	12.7	4.53e6	2666	1697.4	4.21e6	2624	1606.0	bb
22	13C-OCDD	3.91e5	4.36e5	8.27e5	39.88	1.158	0.90	NO	221.747	0.113	0.741	10.9	4.97e6	1855	2676.9	5.39e6	1694	3181.5	bb
23	13C-2378-TCDF	4.44e5	5.60e5	1.00e6	25.66	0.992	0.79	NO	93.347	0.108	1.700	-6.7	4.34e6	2133	2036.2	5.39e6	2455	2196.5	bb
24	13C-12378-PeCDF	5.16e5	3.34e5	8.50e5	31.03	1.200	1.54	NO	85.095	0.256	1.440	-14.9	7.03e6	4883	1438.9	4.47e6	5210	857.5	bb
25	13C-123678-HxCDF	2.61e5	4.84e5	7.45e5	33.69	0.978	0.54	NO	81.846	0.127	1.335	-18.2	5.61e6	4125	1359.2	1.07e7	5642	1889.9	dd
26	13C-1234678-HpCDF	1.83e5	4.01e5	5.84e5	35.83	1.040	0.46	NO	96.847	0.0970	1.047	-3.2	3.34e6	2117	1576.4	7.36e6	2829	2602.2	bb
27	13C-1234-TCDD	2.63e5	3.28e5	5.90e5	25.86	0.000	0.80	NO	100.000	0.205	1.000	0.0	2.59e6	2666	971.3	3.32e6	2119	1565.5	bb
28	13C-123789-HxCDD	3.10e5	2.48e5	5.58e5	34.46	0.000	1.25	NO	100.000	0.143	1.000	0.0	6.55e6	3345	1958.3	5.27e6	3402	1548.0	bb
29	37Cl-2378-TCDD (SS)	6.79e4		6.79e4	26.59	1.001			10.695	0.0468	1.127	7.0	6.53e5	1138	573.8				bb
30	13C-23478-PeCDF (SS)	5.43e5	3.50e5	8.93e5	31.85	1.026	1.55	NO	112.578	0.233	1.051	12.6	1.10e7	4883	2249.6	7.23e6	5210	1387.1	bb

Quantify Sample Summary Report **MassLynx 4.1**
Method 8290 CCAL Report

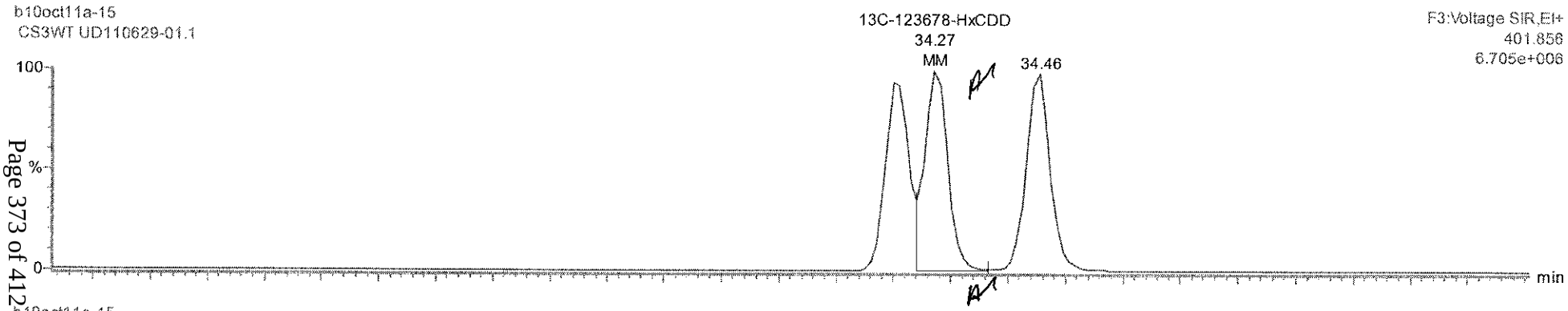
Dataset: C:\MassLynx\Default.pro\CCAL Results\8290-b10oct11a-15.qld

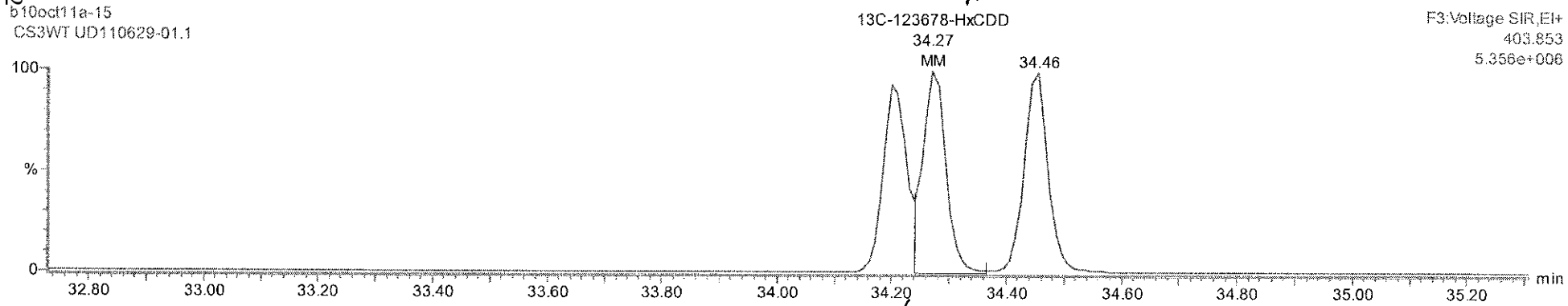
Last Altered: Tuesday, October 11, 2011 08:00:49 Eastern Standard Time
Printed: Tuesday, October 11, 2011 08:02:53 Eastern Standard Time

Name: b10oct11a-15, Date: 10-Oct-2011, Time: 23:44:57, ID: CS3WT UD110629-01.1, Description: , Job: b10oct11a, Task: HRP763_1, User: MJC

	Name	Ion1Area	Ion2Area	Response	RT	RRT	RA	Fail?	pg/uL	EDL	RRF	%D	Height1	Noise1	S/N1	Height2	Noise2	S/N2	M
32	13C-123478-HxCDF (SS)	2.31e5	4.45e5	6.77e5	33.61	0.998	0.52	NO	112.275	0.188	0.909	12.3	5.19e6	4125	1259.1	1.00e7	5642	1774.0	bd
33	13C-123478-HxCDD (SS)	2.99e5	2.36e5	5.35e5	34.20	0.998	1.27	NO	110.408	0.162	0.951	10.4	6.25e6	3345	1868.4	4.95e6	3402	1455.3	bd
	13C-1234789-HpCDF (SS)	1.49e5	3.32e5	4.81e5	37.25	1.040	0.45	NO	108.998	0.154	0.824	9.0	2.34e6	2117	1104.5	5.24e6	2829	1850.8	bb

MANUAL INTEGRATION





10/11/11

HMP 11Oct11

Quantify Sample Report **MassLynx 4.1**
Method 8290 CCAL Report

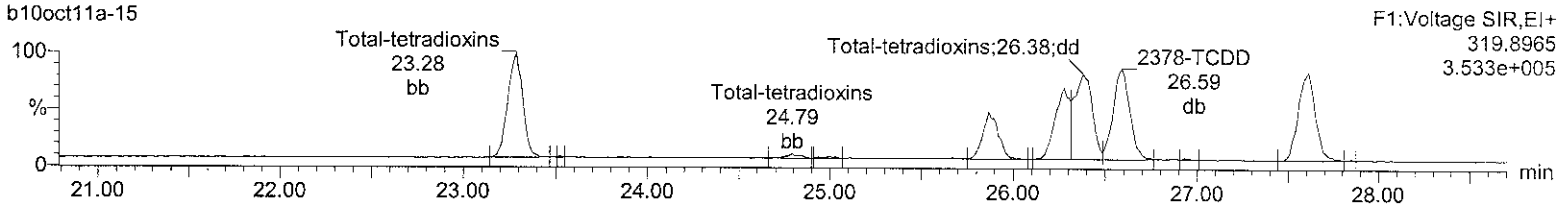
Dataset: C:\MassLynx\Default.pro\CCAL Results\8290-b10oct11a-15.qld

Last Altered: Tuesday, October 11, 2011 07:58:54 Eastern Standard Time
Printed: Tuesday, October 11, 2011 07:59:21 Eastern Standard Time

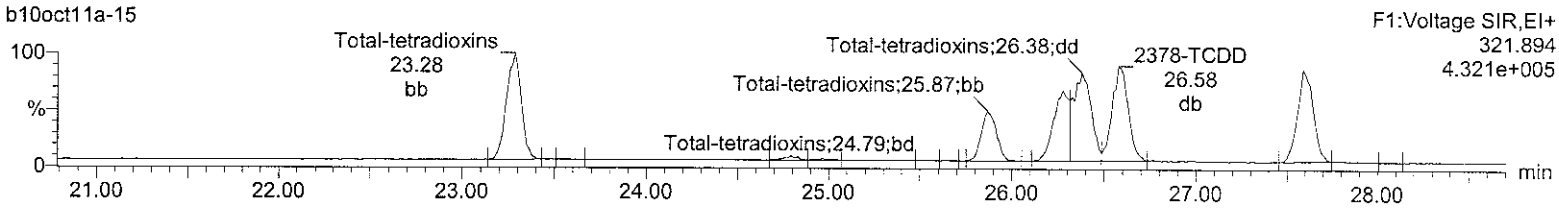
Method: C:\MassLynx\DEFAULT.PRO\MethDB\CFA_EPA8290_101011.mdb 10 Oct 2011 14:05:54
Calibration: C:\MassLynx\DEFAULT.PRO\CurveDB\8290-b01nov10b.cdb 02 Nov 2010 08:19:01

Name: b10oct11a-15, Date: 10-Oct-2011, Time: 23:44:57, ID: CS3WT UD110629-01.1, Description: , Job: b10oct11a, Task: HRP763_1, User: MJC

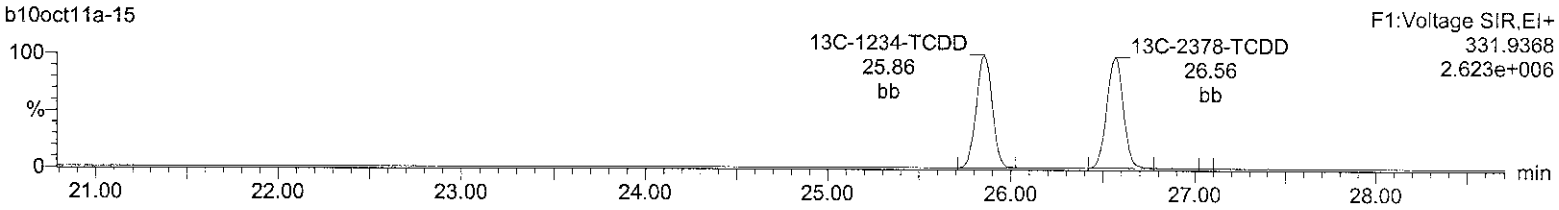
Total-tetradioxins



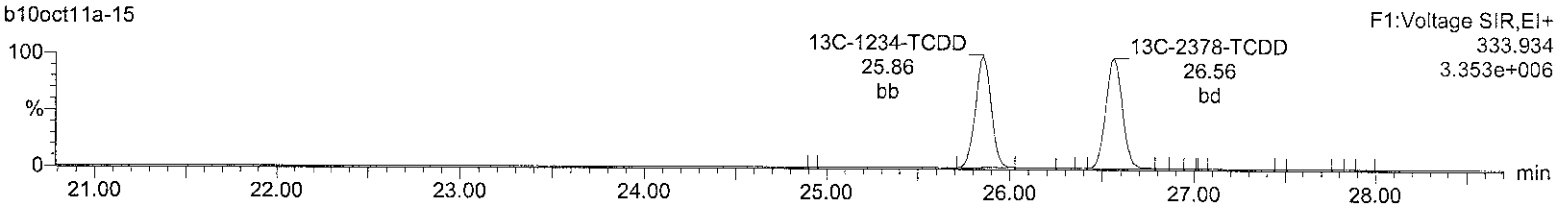
Total-tetradioxins



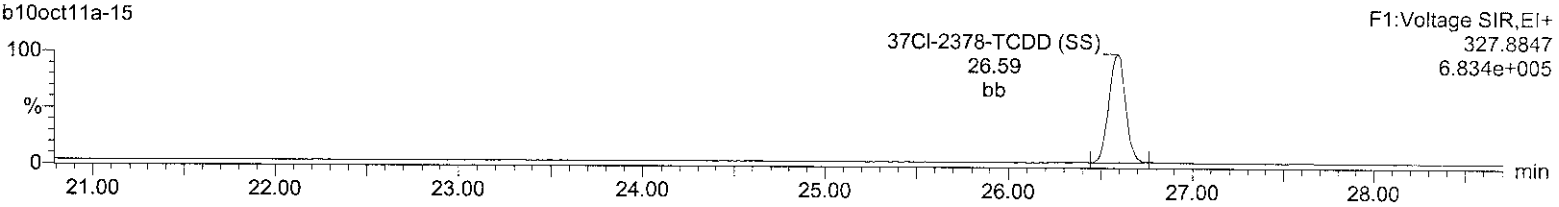
13C-2378-TCDD



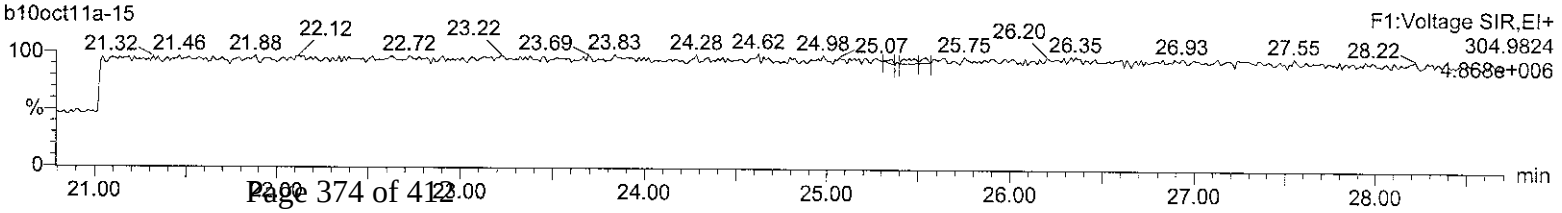
13C-2378-TCDD



37Cl-2378-TCDD (SS)



Lock Mass F1



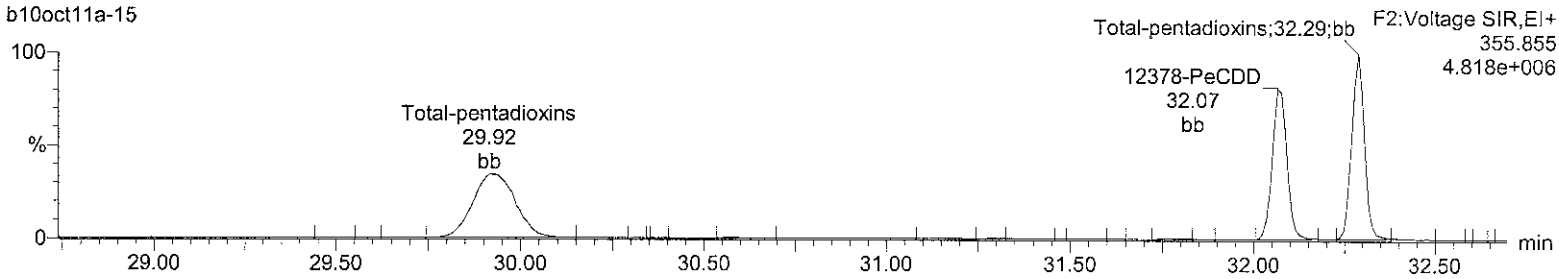
Quantify Sample Report **MassLynx 4.1**
Method 8290 CCAL Report

Dataset: C:\MassLynx\Default.pro\CCAL Results\8290-b10oct11a-15.qld

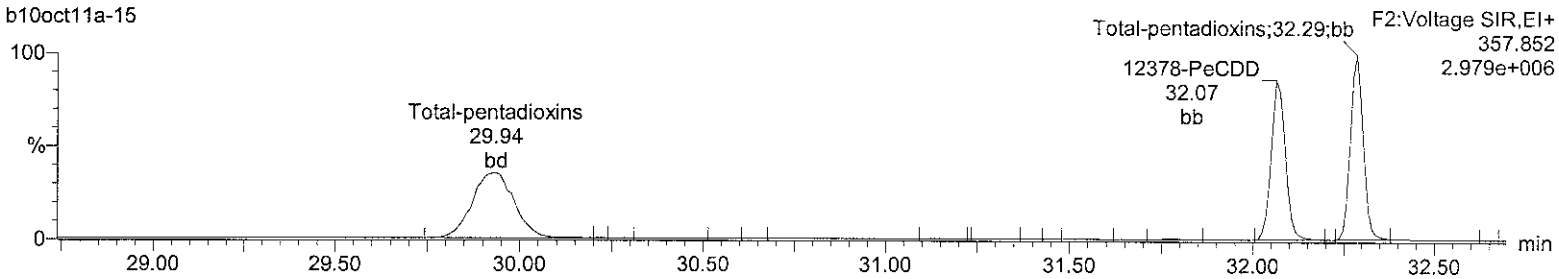
Last Altered: Tuesday, October 11, 2011 07:58:54 Eastern Standard Time
Printed: Tuesday, October 11, 2011 07:59:21 Eastern Standard Time

Name: b10oct11a-15, Date: 10-Oct-2011, Time: 23:44:57, ID: CS3WT UD110629-01.1, Description: , Job: b10oct11a, Task: HRP763_1, User: MJC

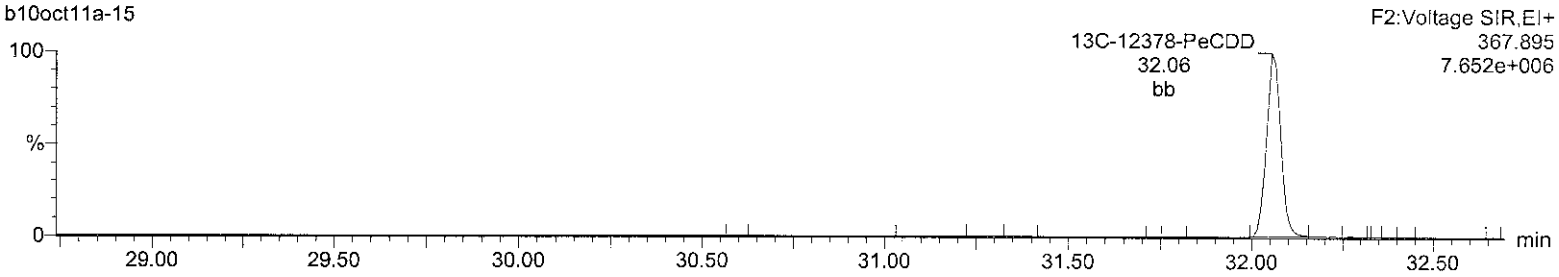
Total-pentadioxins



Total-pentadioxins



13C-12378-PeCDD



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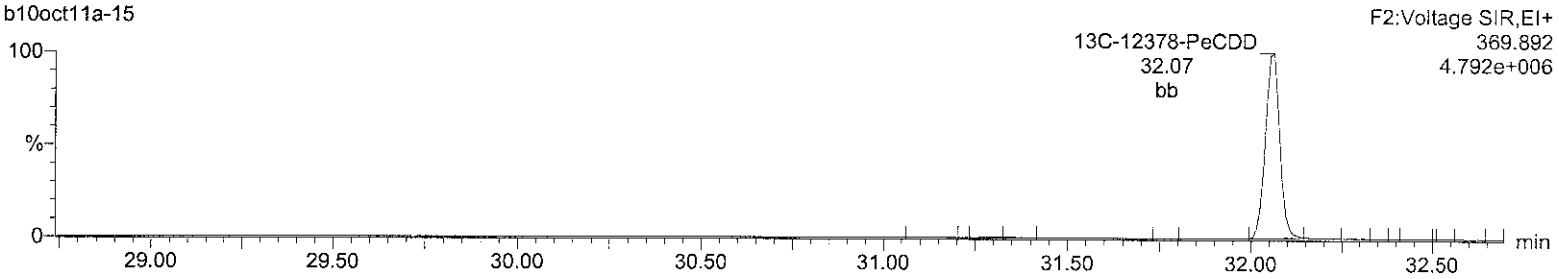
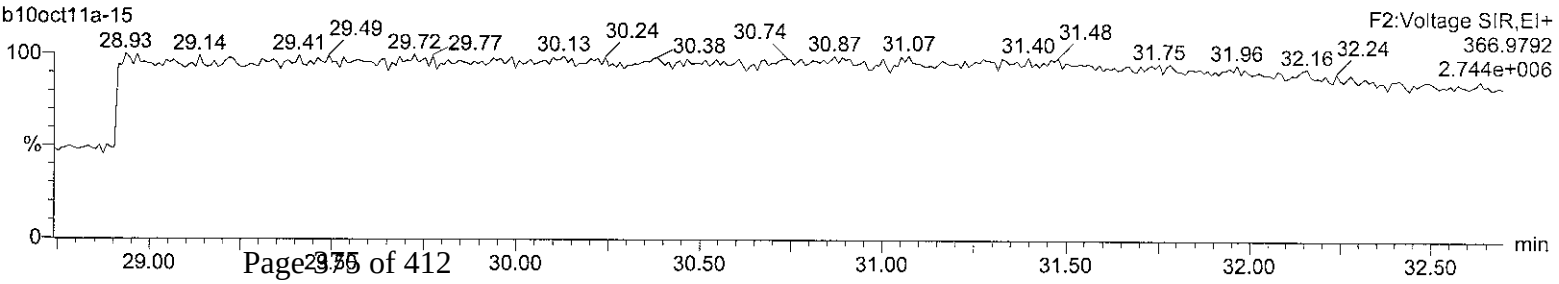


Lock Mass F2



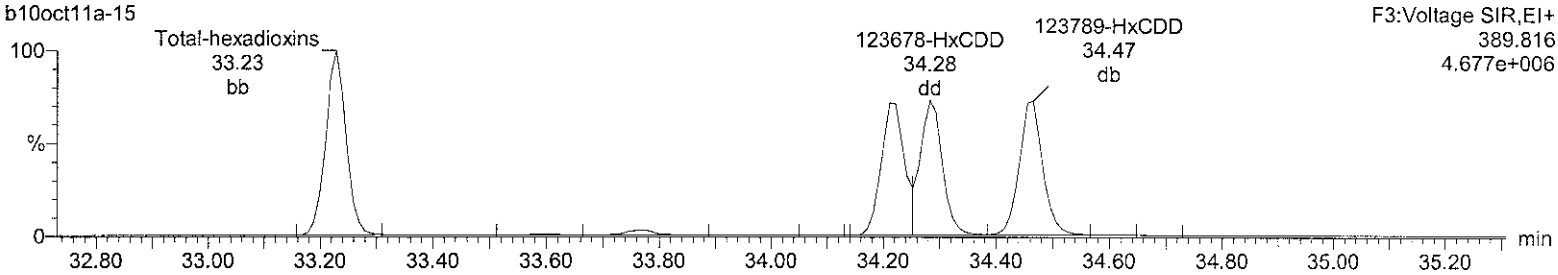
Quantify Sample Report **MassLynx 4.1**
Method 8290 CCAL Report

Dataset: C:\MassLynx\Default.pro\CCAL Results\8290-b10oct11a-15.qld

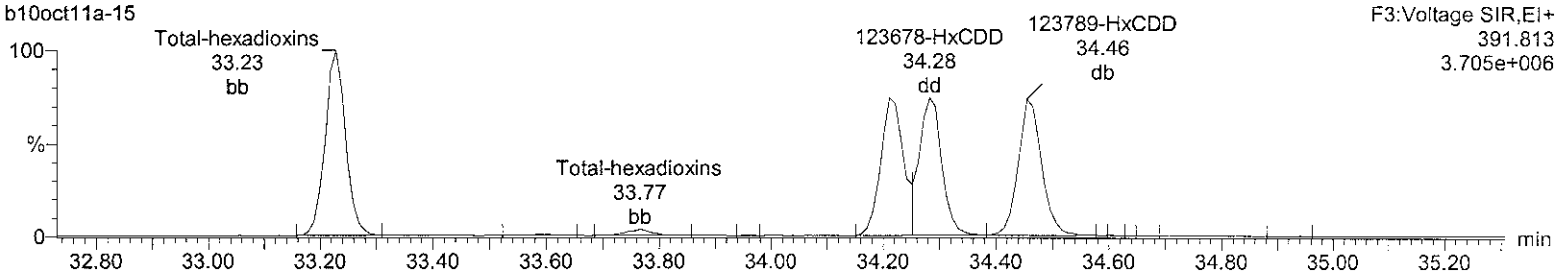
Last Altered: Tuesday, October 11, 2011 07:58:54 Eastern Standard Time
Printed: Tuesday, October 11, 2011 07:59:21 Eastern Standard Time

Name: b10oct11a-15, Date: 10-Oct-2011, Time: 23:44:57, ID: CS3WT UD110629-01.1, Description: , Job: b10oct11a, Task: HRP763_1, User: MJC

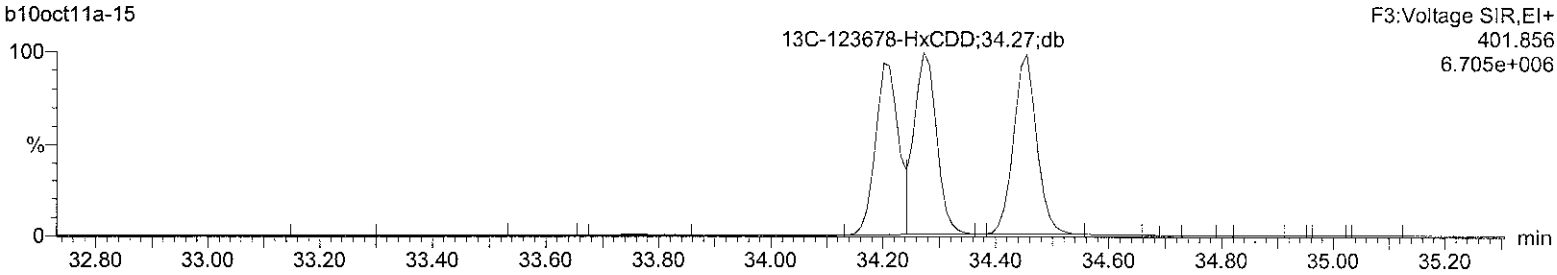
Total-hexadioxins



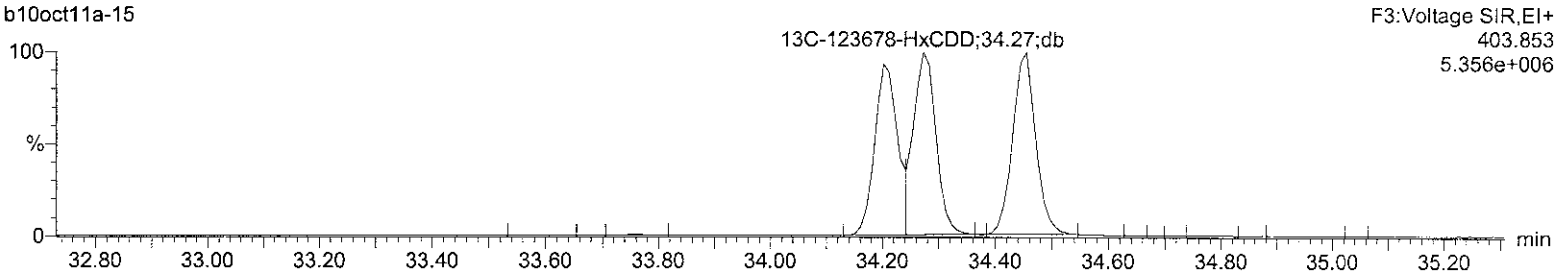
Total-hexadioxins



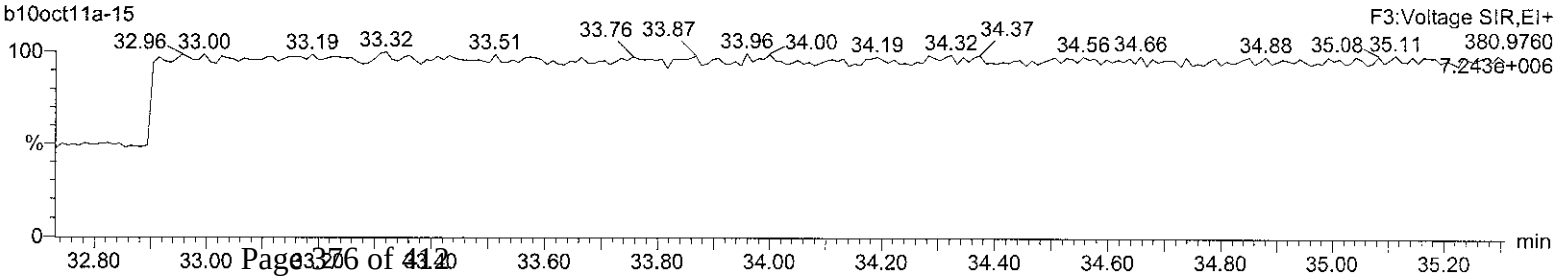
13C-123678-HxCDD



13C-123678-HxCDD



Lock Mass F3



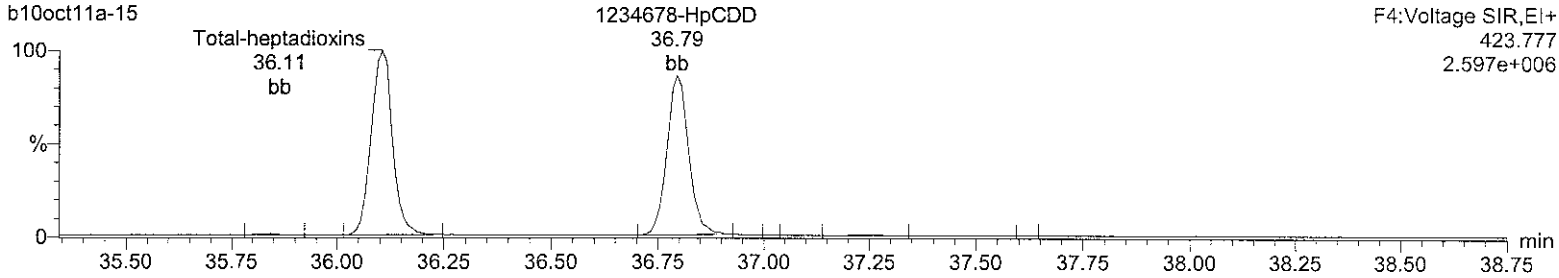
Quantify Sample Report **MassLynx 4.1**
Method 8290 CCAL Report

Dataset: C:\MassLynx\Default.pro\CCAL Results\8290-b10oct11a-15.qld

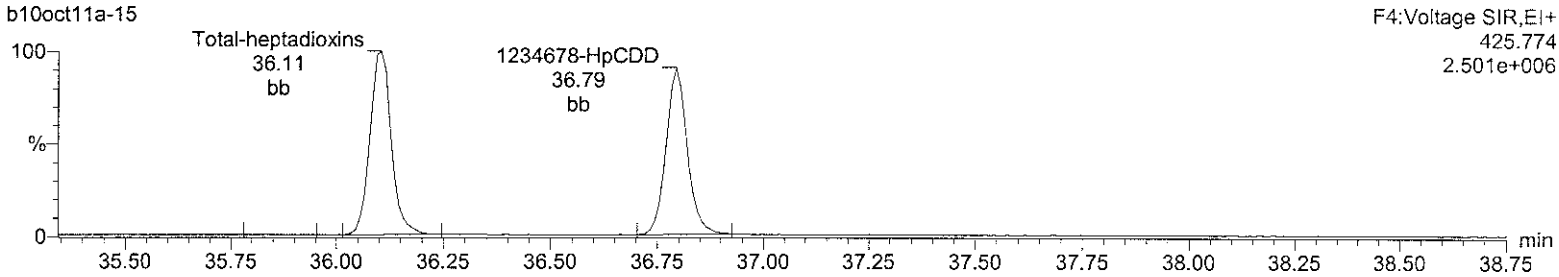
Last Altered: Tuesday, October 11, 2011 07:58:54 Eastern Standard Time
Printed: Tuesday, October 11, 2011 07:59:21 Eastern Standard Time

Name: b10oct11a-15, Date: 10-Oct-2011, Time: 23:44:57, ID: CS3WT UD110629-01.1, Description: , Job: b10oct11a, Task: HRP763_1, User: MJC

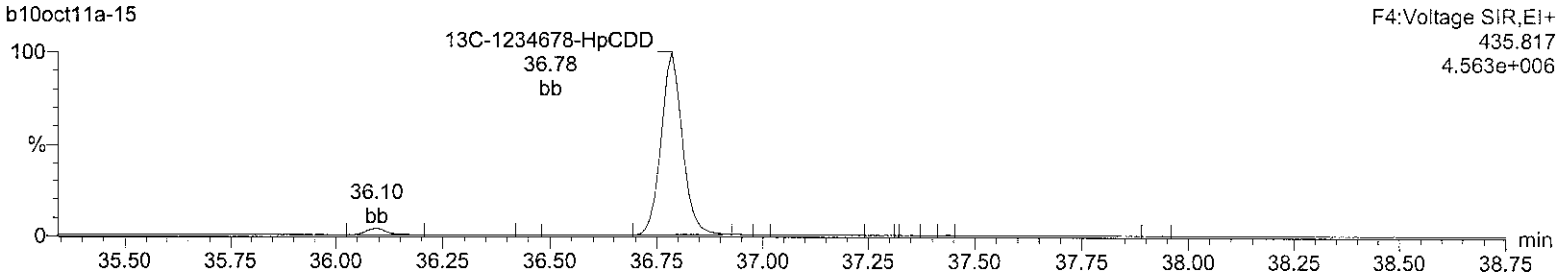
Total-heptadioxins



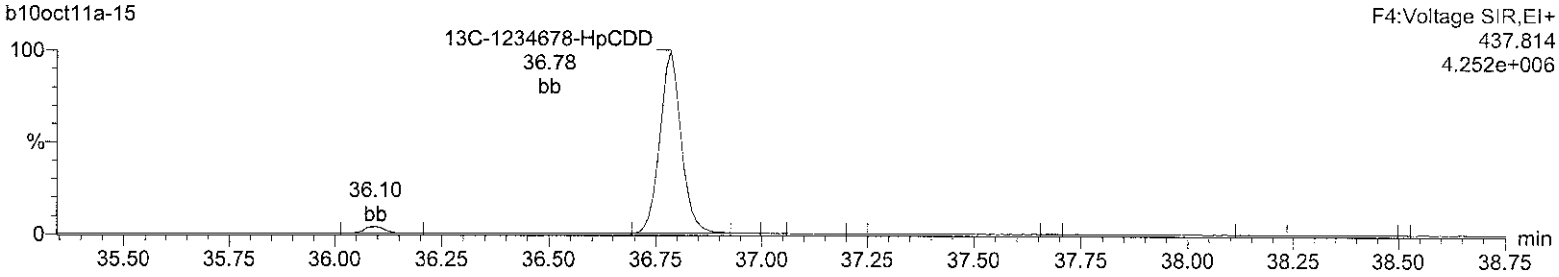
Total-heptadioxins



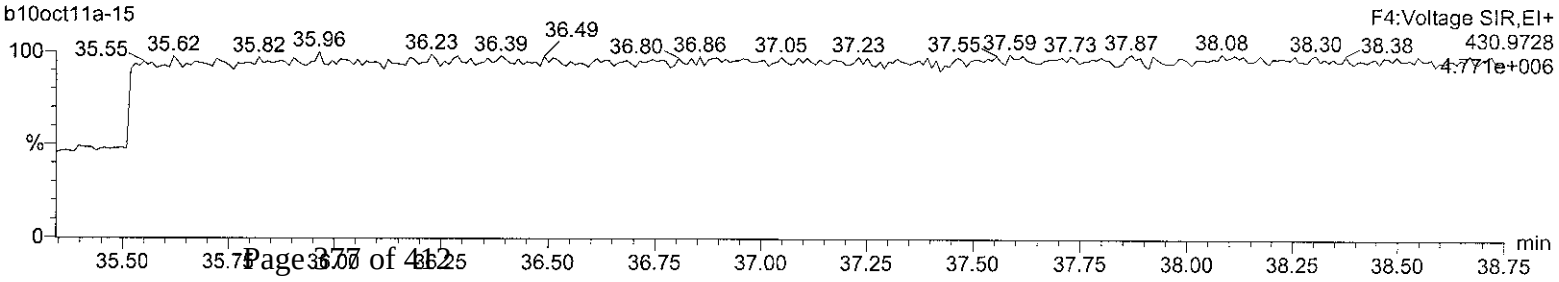
13C-1234678-HpCDD



13C-1234678-HpCDD



Lock Mass F4



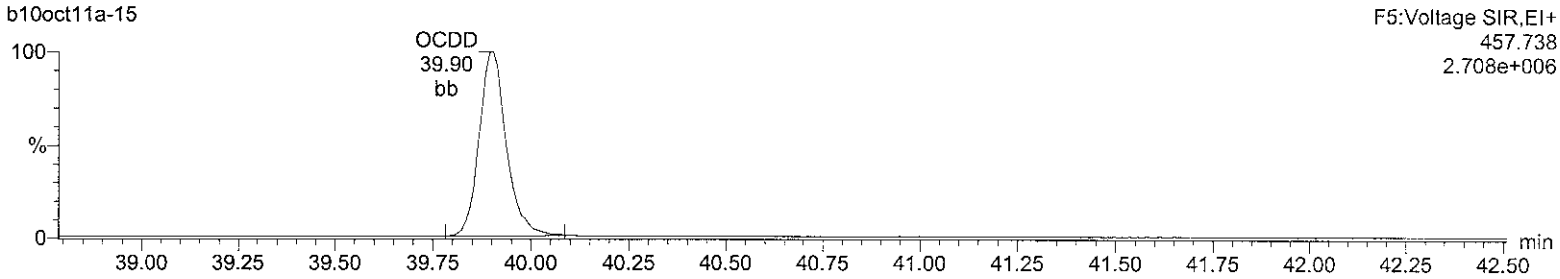
Quantify Sample Report **MassLynx 4.1**
Method 8290 CCAL Report

Dataset: C:\MassLynx\Default.pro\CCAL Results\8290-b10oct11a-15.qld

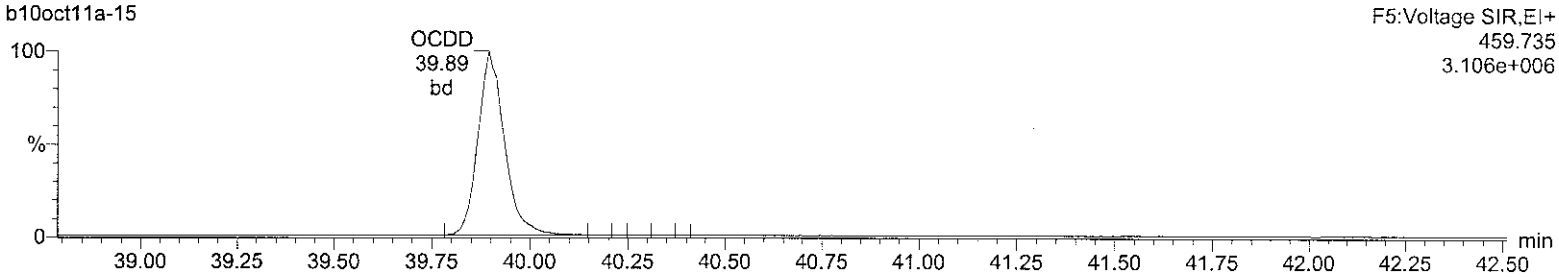
Last Altered: Tuesday, October 11, 2011 07:58:54 Eastern Standard Time
Printed: Tuesday, October 11, 2011 07:59:21 Eastern Standard Time

Name: b10oct11a-15, Date: 10-Oct-2011, Time: 23:44:57, ID: CS3WT UD110629-01.1, Description: , Job: b10oct11a, Task: HRP763_1, User: MJC

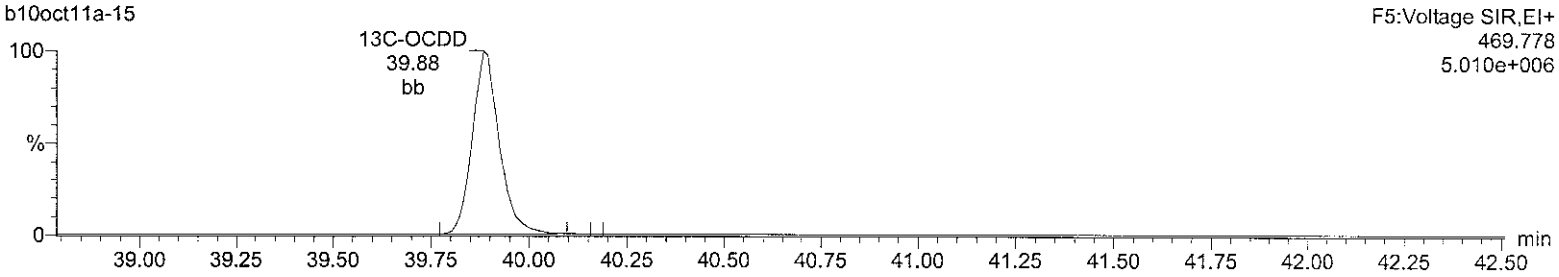
OCDD



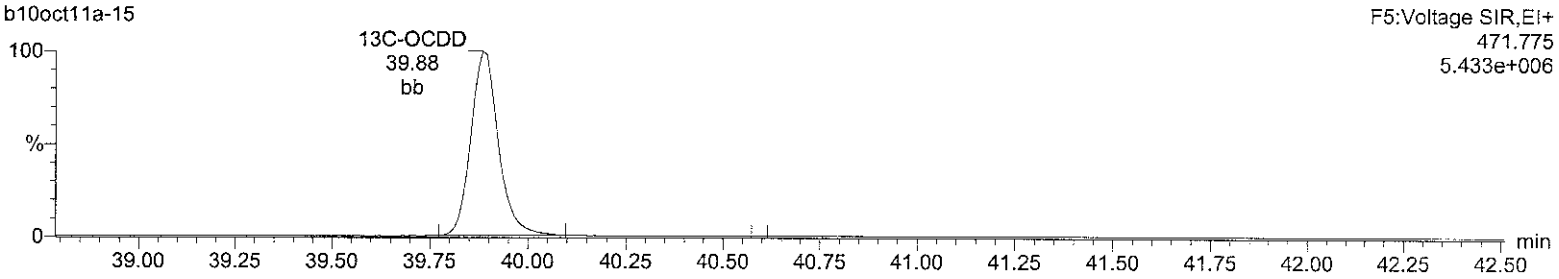
OCDD



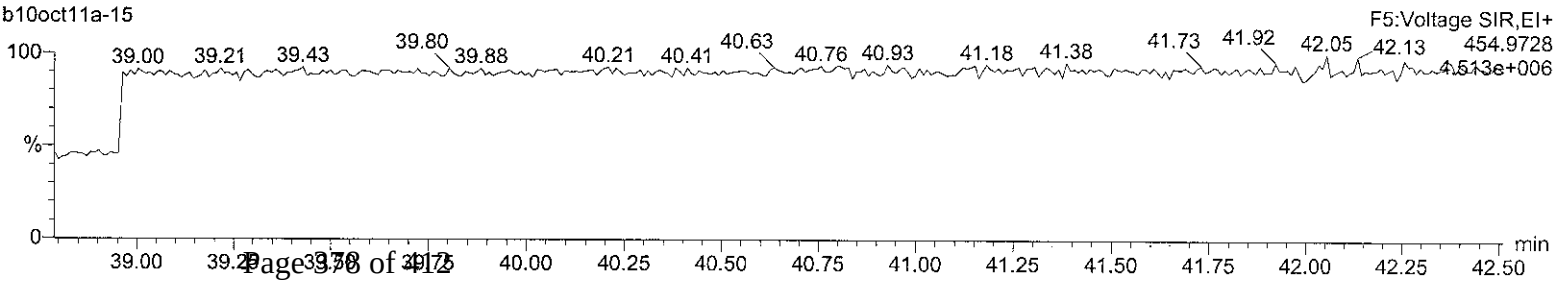
13C-OCDD



13C-OCDD



Lock Mass F5



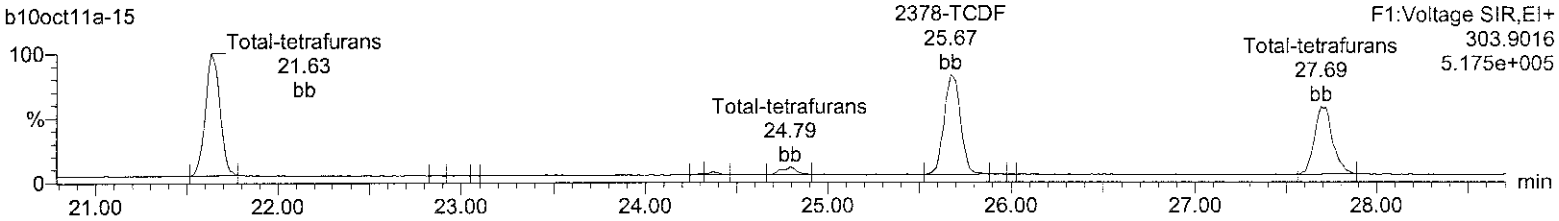
Quantify Sample Report **MassLynx 4.1**
Method 8290 CCAL Report

Dataset: C:\MassLynx\Default.pro\CCAL Results\8290-b10oct11a-15.qld

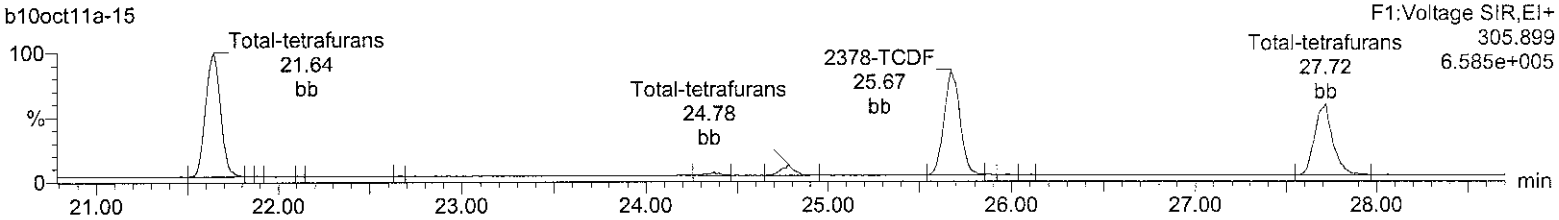
Last Altered: Tuesday, October 11, 2011 07:58:54 Eastern Standard Time
Printed: Tuesday, October 11, 2011 07:59:21 Eastern Standard Time

Name: b10oct11a-15, Date: 10-Oct-2011, Time: 23:44:57, ID: CS3WT UD110629-01.1, Description: , Job: b10oct11a, Task: HRP763_1, User: MJC

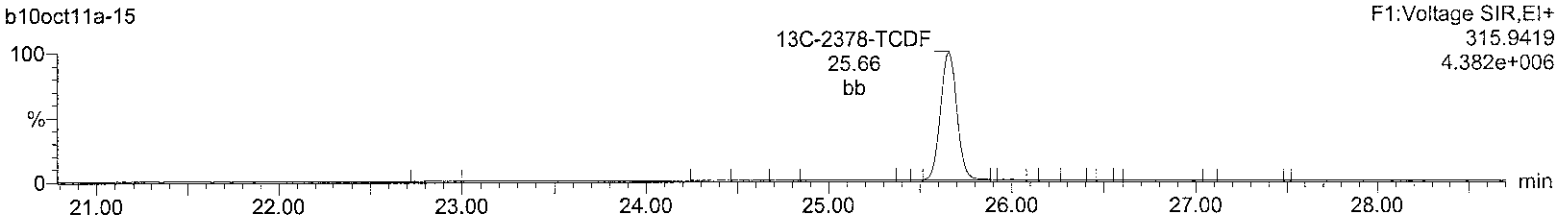
Total-tetrafurans



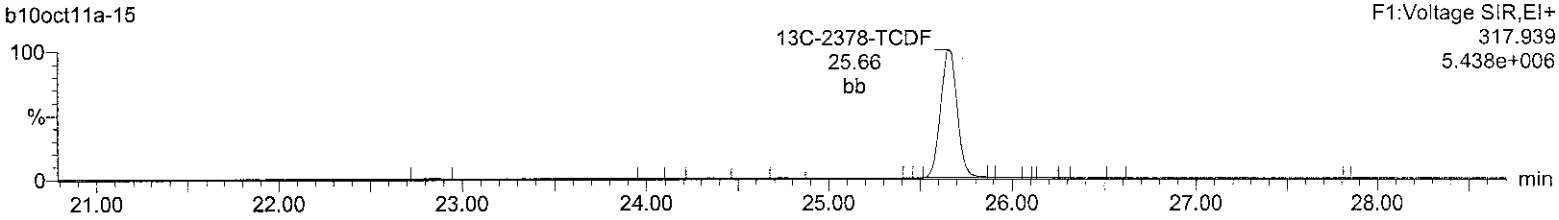
Total-tetrafurans



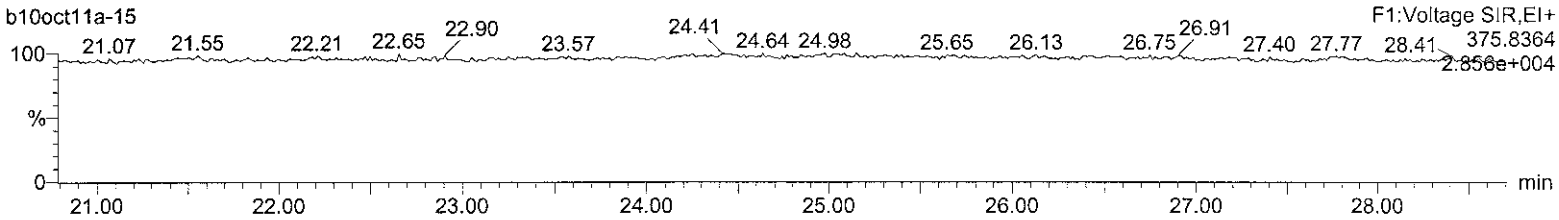
13C-2378-TCDF



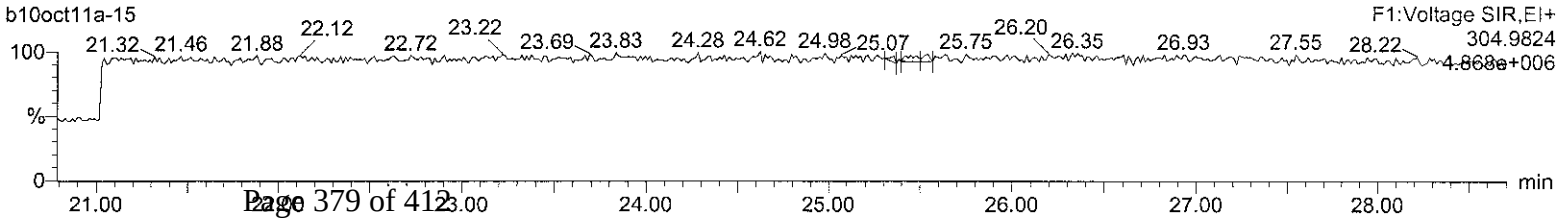
13C-2378-TCDF



HxDPE



Lock Mass F1



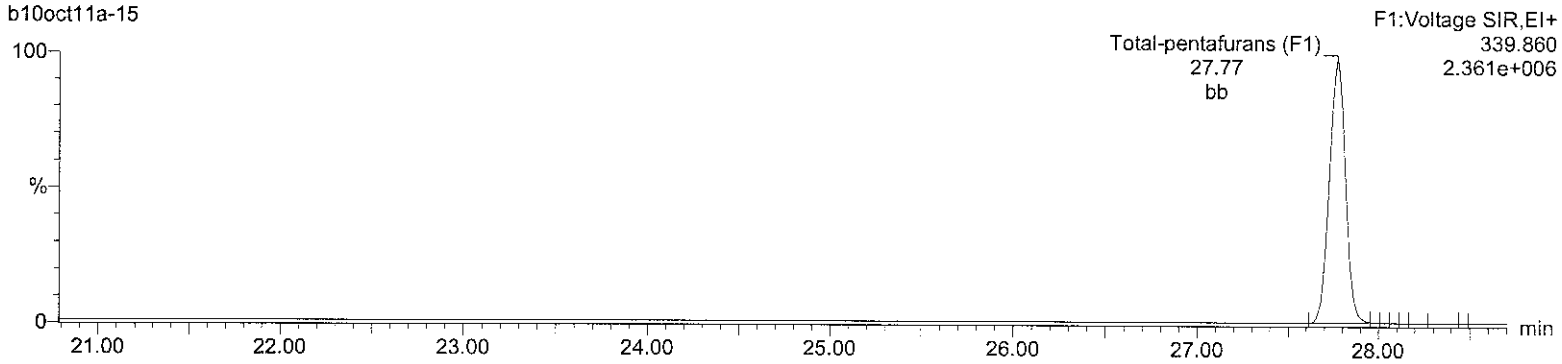
Quantify Sample Report **MassLynx 4.1**
Method 8290 CCAL Report

Dataset: C:\MassLynx\Default.pro\CCAL Results\8290-b10oct11a-15.qld

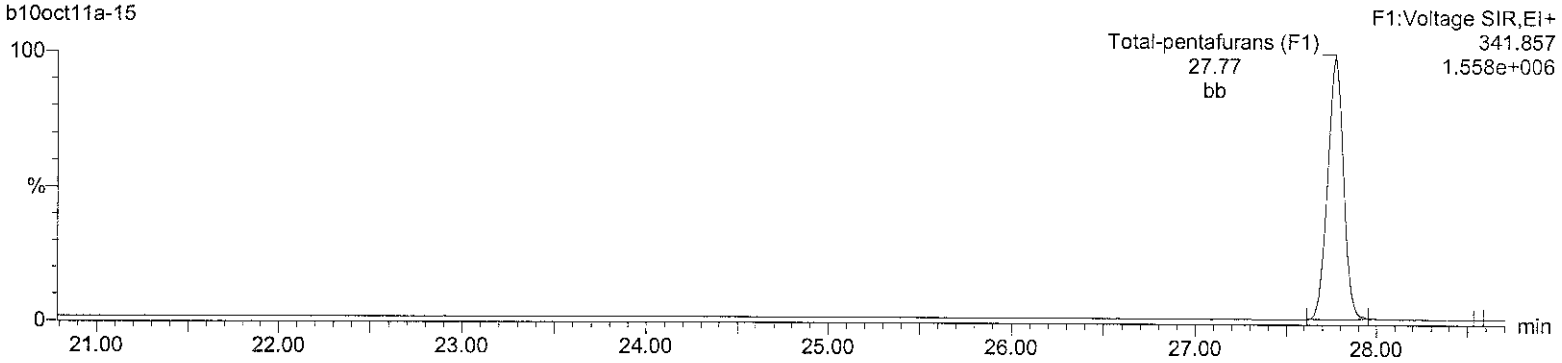
Last Altered: Tuesday, October 11, 2011 07:58:54 Eastern Standard Time
Printed: Tuesday, October 11, 2011 07:59:21 Eastern Standard Time

Name: b10oct11a-15, Date: 10-Oct-2011, Time: 23:44:57, ID: CS3WT UD110629-01.1, Description: , Job: b10oct11a, Task: HRP763_1, User: MJC

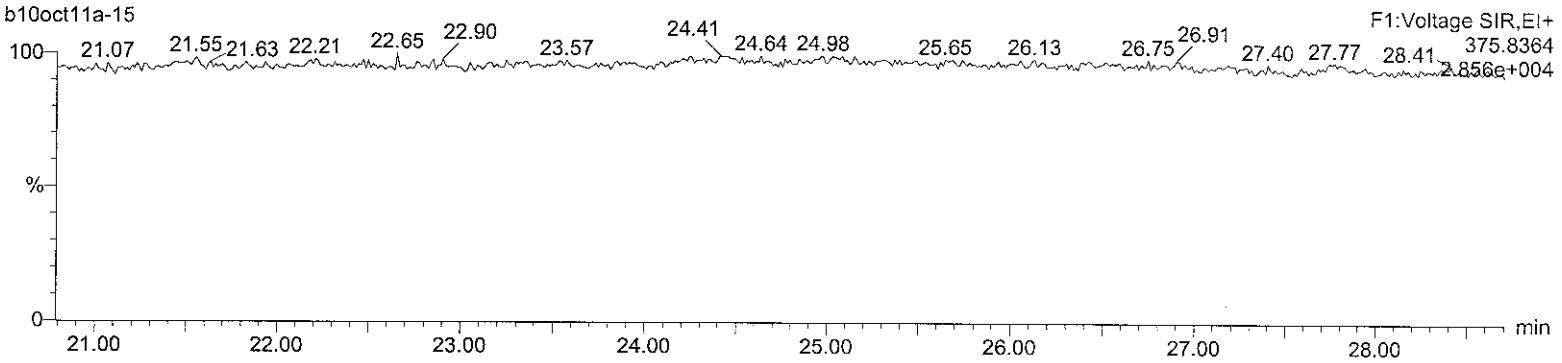
Total-pentafurans (F1)



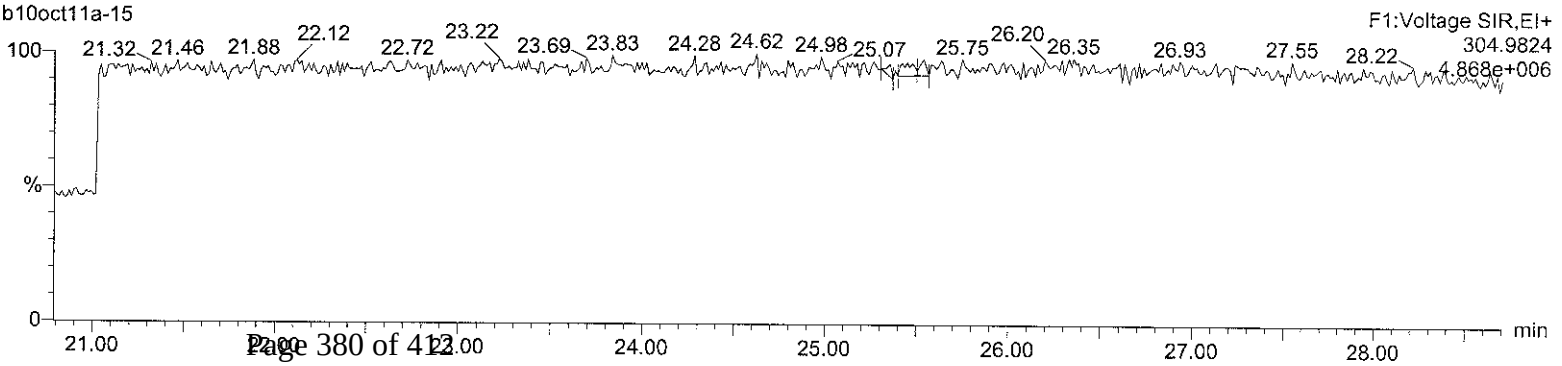
Total-pentafurans (F1)



HxDPE



Lock Mass F1



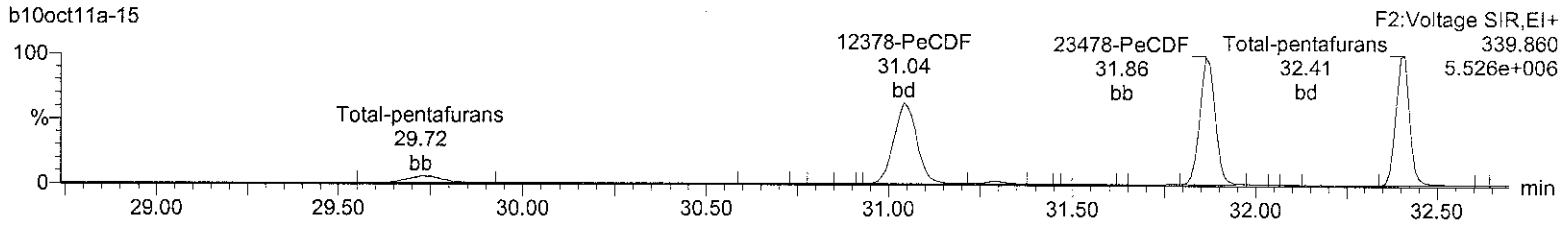
Quantify Sample Report **MassLynx 4.1**
Method 8290 CCAL Report

Dataset: C:\MassLynx\Default.pro\CCAL Results\8290-b10oct11a-15.qld

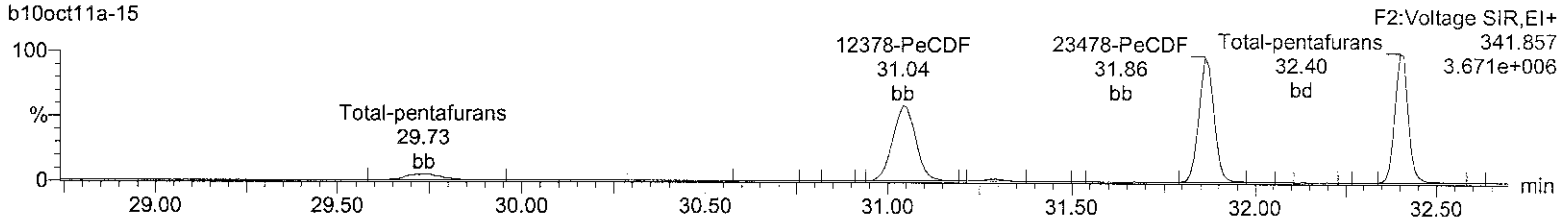
Last Altered: Tuesday, October 11, 2011 07:58:54 Eastern Standard Time
Printed: Tuesday, October 11, 2011 07:59:21 Eastern Standard Time

Name: b10oct11a-15, Date: 10-Oct-2011, Time: 23:44:57, ID: CS3WT UD110629-01.1, Description: , Job: b10oct11a, Task: HRP763_1, User: MJC

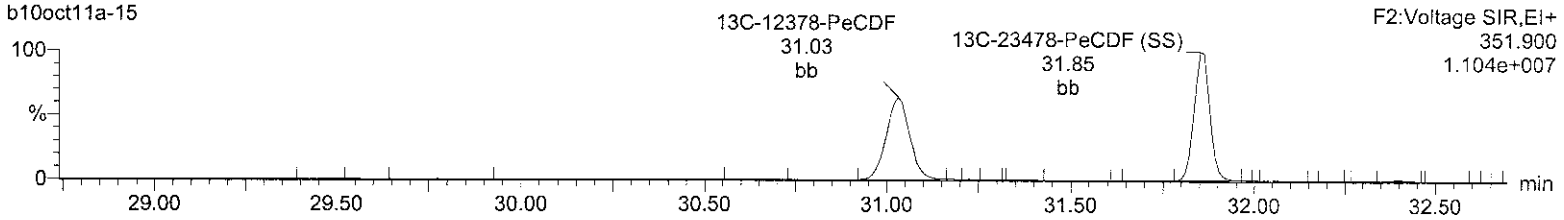
Total-pentafurans



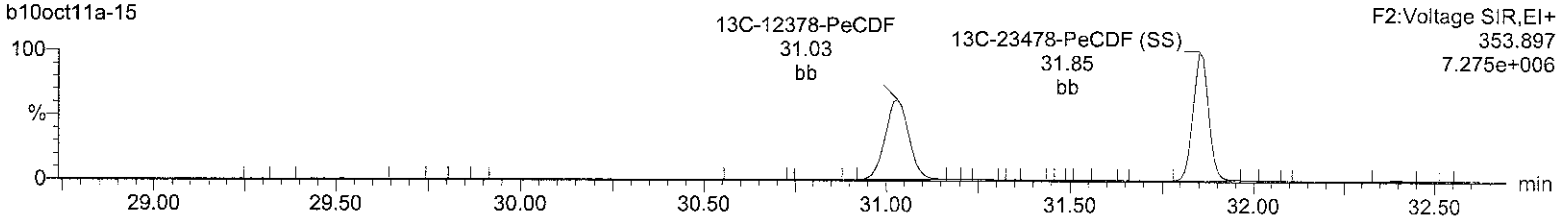
Total-pentafurans



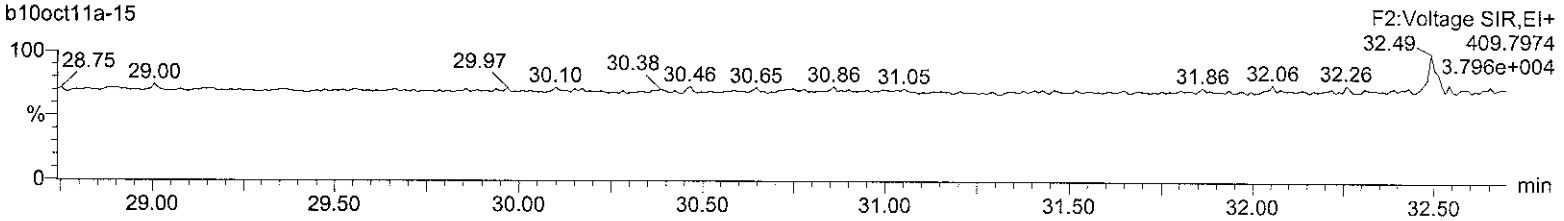
13C-12378-PeCDF



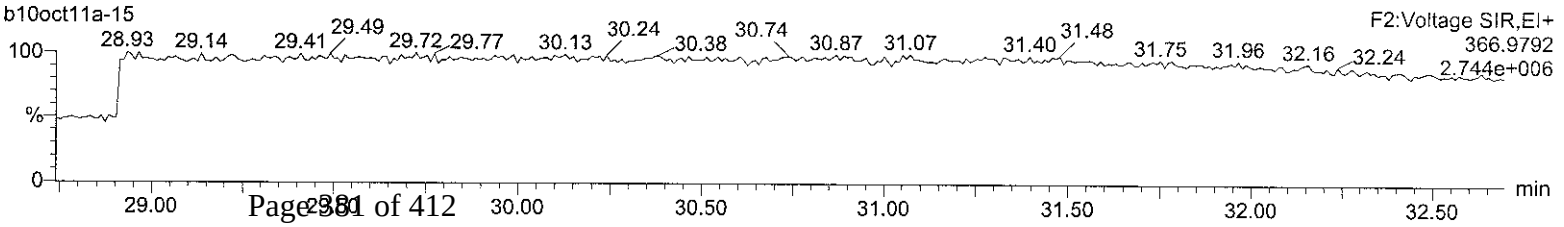
13C-12378-PeCDF



HpDPE



Lock Mass F2



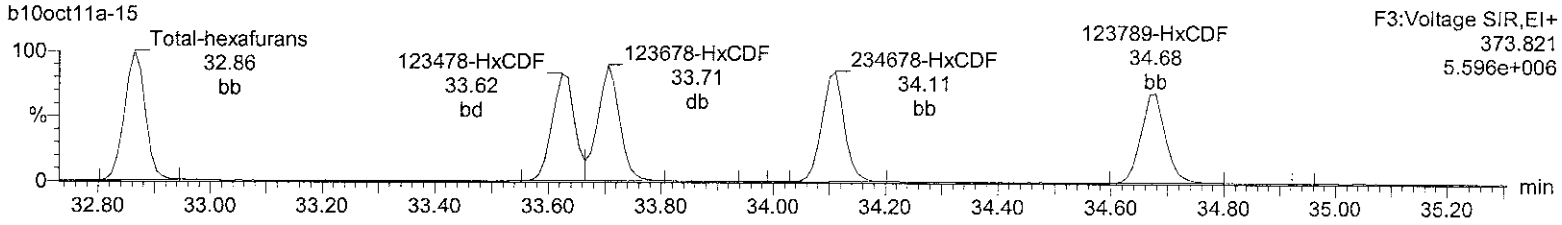
Quantify Sample Report **MassLynx 4.1**
Method 8290 CCAL Report

Dataset: C:\MassLynx\Default.pro\CCAL Results\8290-b10oct11a-15.qld

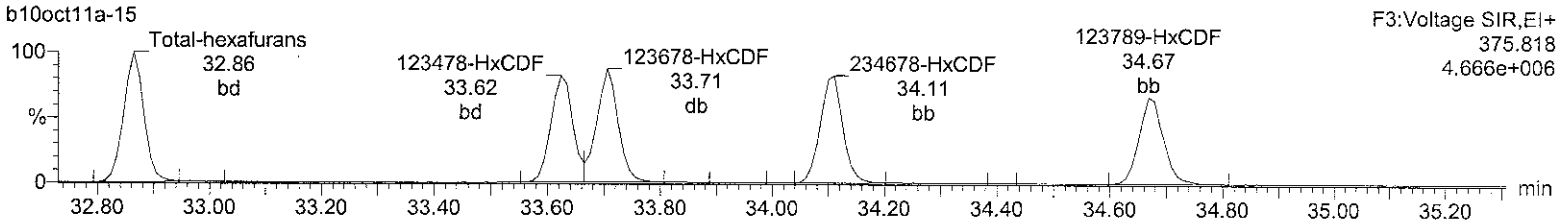
Last Altered: Tuesday, October 11, 2011 07:58:54 Eastern Standard Time
Printed: Tuesday, October 11, 2011 07:59:21 Eastern Standard Time

Name: b10oct11a-15, Date: 10-Oct-2011, Time: 23:44:57, ID: CS3WT UD110629-01.1, Description: , Job: b10oct11a, Task: HRP763_1, User: MJC

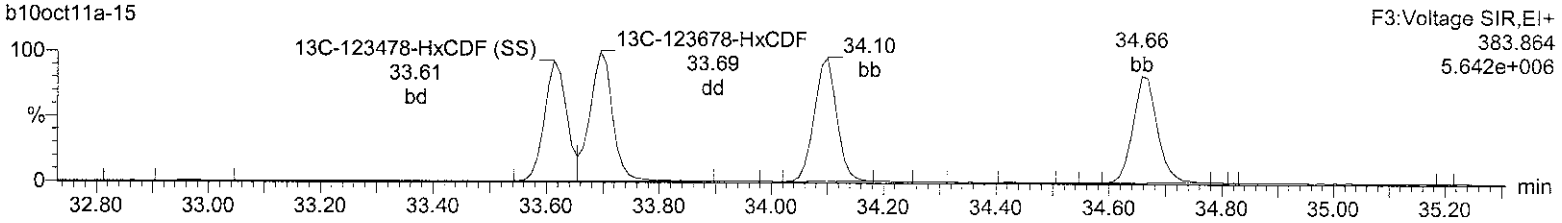
Total-hexafurans



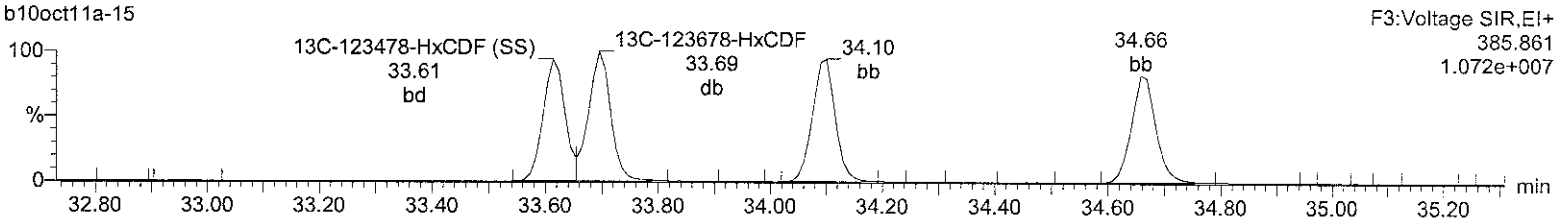
Total-hexafurans



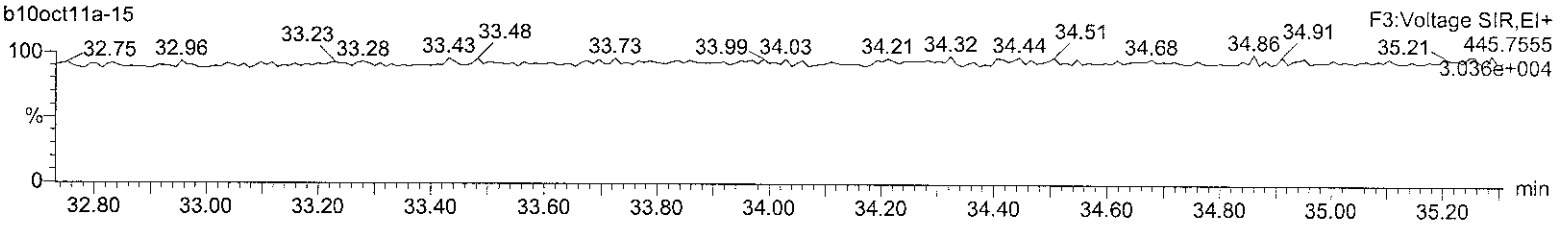
13C-123678-HxCDF



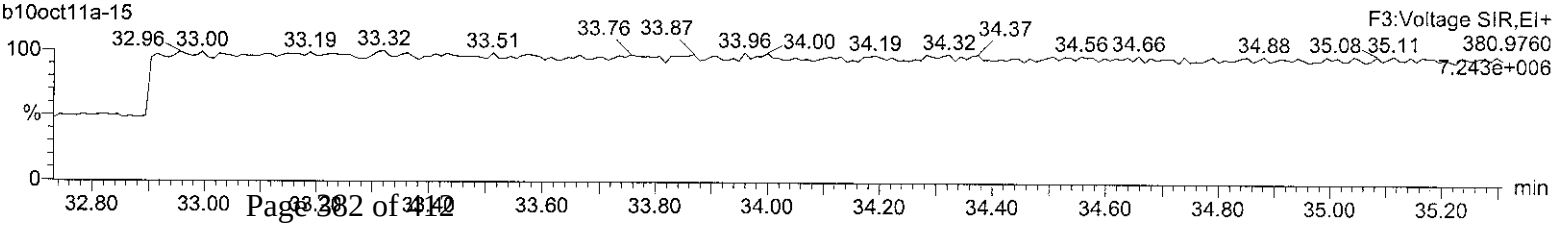
13C-123678-HxCDF



OcDPE



Lock Mass F3



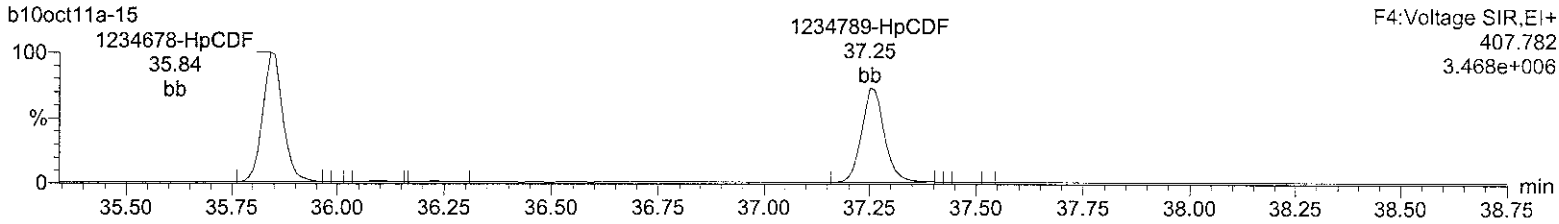
Quantify Sample Report **MassLynx 4.1**
Method 8290 CCAL Report

Dataset: C:\MassLynx\Default.pro\CCAL Results\8290-b10oct11a-15.qld

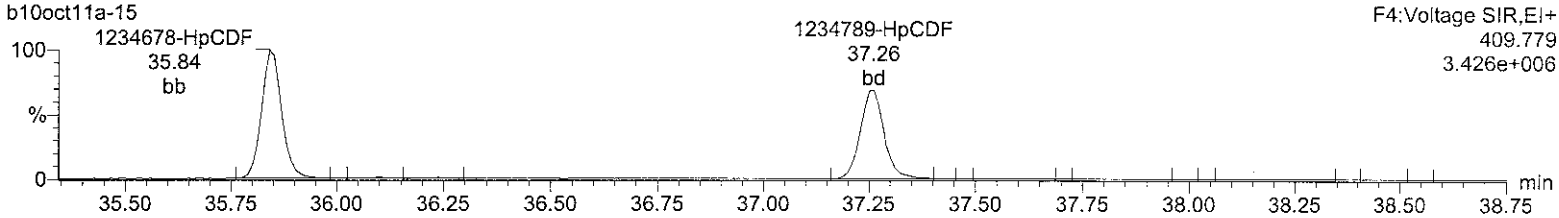
Last Altered: Tuesday, October 11, 2011 07:58:54 Eastern Standard Time
Printed: Tuesday, October 11, 2011 07:59:21 Eastern Standard Time

Name: b10oct11a-15, Date: 10-Oct-2011, Time: 23:44:57, ID: CS3WT UD110629-01.1, Description: , Job: b10oct11a, Task: HRP763_1, User: MJC

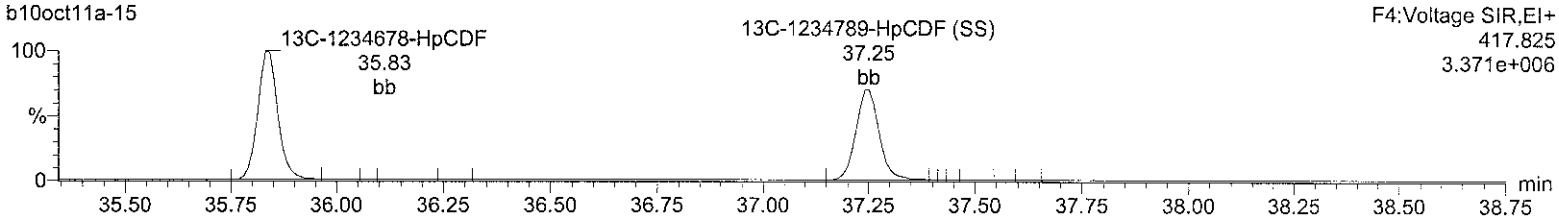
Total-heptafurans



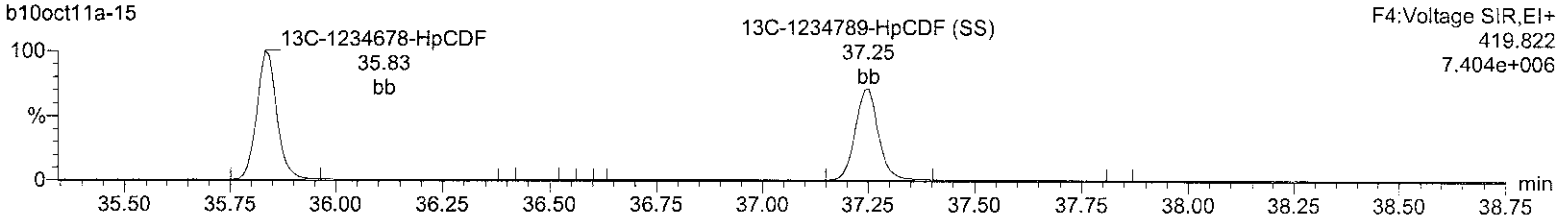
Total-heptafurans



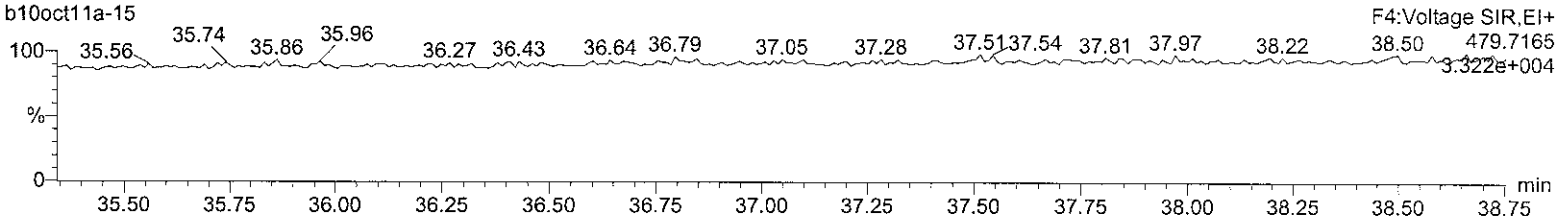
13C-1234678-HpCDF



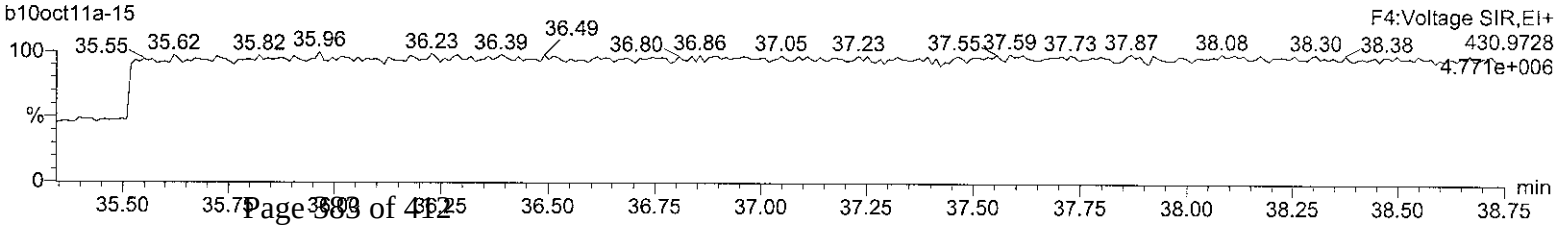
13C-1234678-HpCDF



NoDPE



Lock Mass F4



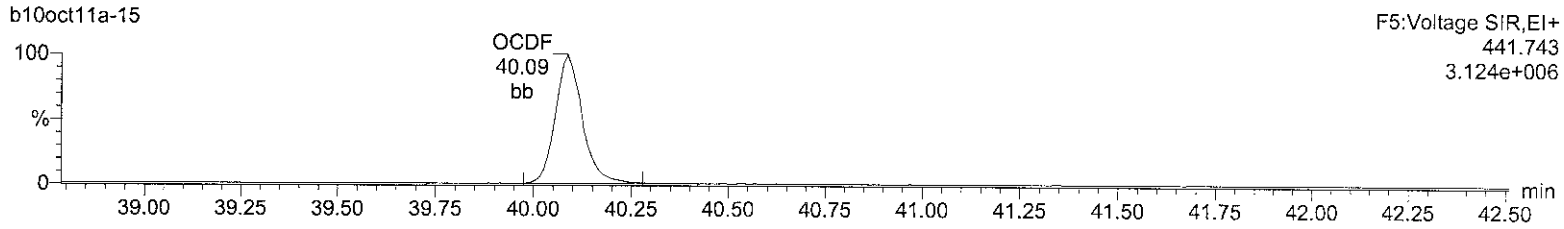
Quantify Sample Report **MassLynx 4.1**
Method 8290 CCAL Report

Dataset: C:\MassLynx\Default.pro\CCAL Results\8290-b10oct11a-15.qld

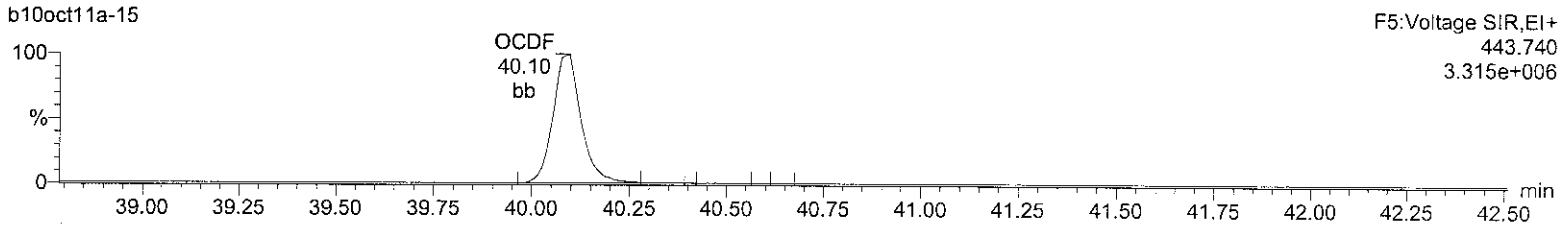
Last Altered: Tuesday, October 11, 2011 07:58:54 Eastern Standard Time
Printed: Tuesday, October 11, 2011 07:59:21 Eastern Standard Time

Name: b10oct11a-15, Date: 10-Oct-2011, Time: 23:44:57, ID: CS3WT UD110629-01.1, Description: , Job: b10oct11a, Task: HRP763_1, User: MJC

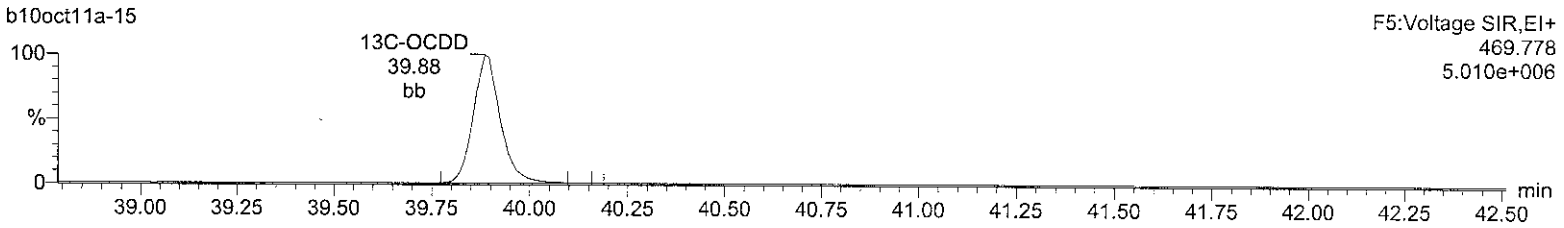
OCDF



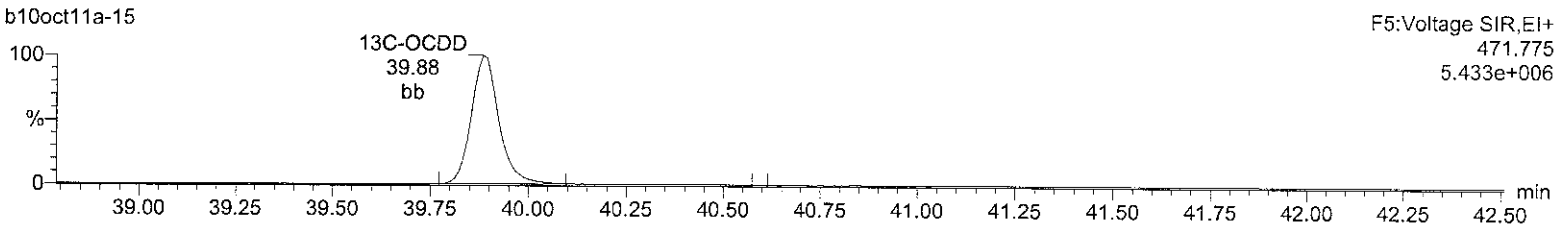
OCDF



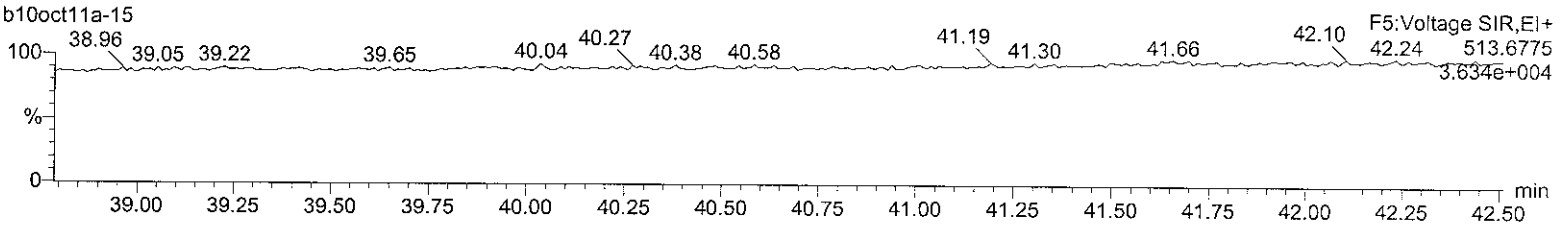
13C-OCDD



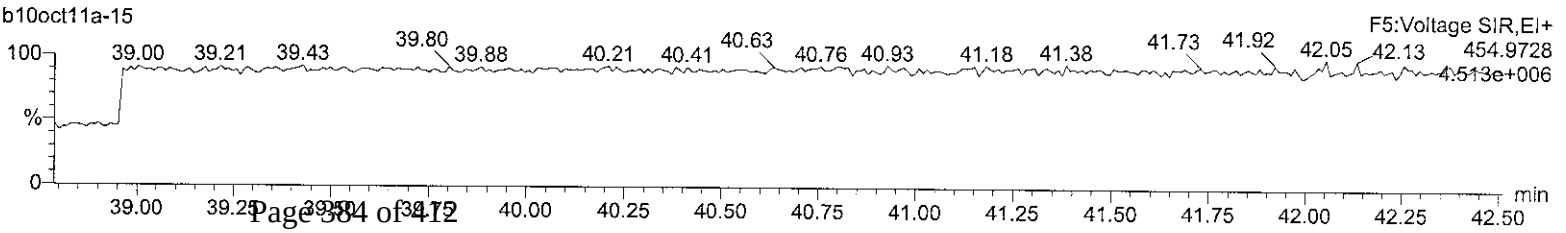
13C-OCDD



DeDPE



Lock Mass F5



Quantify Sample Summary Report **MassLynx 4.1**
Method 8290 CCAL Report

Dataset: C:\MassLynx\Default.pro\CCAL Results\8290-b10oct11a_2-14.qld

Last Altered: Tuesday, October 11, 2011 13:31:52 Eastern Standard Time
Printed: Tuesday, October 11, 2011 13:32:51 Eastern Standard Time

Method: C:\MassLynx\Default.pro\Methdb\CFA_EPA8290_101011.mdb 10 Oct 2011 14:05:54
Calibration: C:\MassLynx\DEFAULT.PRO\CurveDB\8290-b01nov10b.cdb 02 Nov 2010 08:19:01

Name: b10oct11a_2-14, Date: 11-Oct-2011, Time: 10:17:20, ID: CS3WT UD110629-01.1, Description: , Job: b10oct11a_2, Task: HRP763_1, User: MJC

	Name	Ion1Area	Ion2Area	Response	RT	RRT	RA	Fail?	pg/uL	EDL	RRF	%D	Height1	Noise1	S/N1	Height2	Noise2	S/N2	M
1	2378-TCDD	2.88e4	3.52e4	6.40e4	26.56	1.001	0.82	NO	10.834	0.215	1.097	8.3	2.67e5	3448	77.6	3.54e5	1460	242.5	db
2	12378-PeCDD	1.59e5	1.01e5	2.59e5	32.06	1.000	1.57	NO	50.919	0.114	1.051	1.8	3.37e6	2563	1315.8	2.14e6	2140	1000.0	bb
3	123478-HxCDD	1.46e5	1.19e5	2.65e5	34.21	0.998	1.22	NO	49.873	0.222	0.894	-0.3	3.09e6	4202	735.5	2.55e6	5095	500.8	bd
4	123678-HxCDD	1.66e5	1.32e5	2.98e5	34.27	1.000	1.25	NO	52.045	0.206	1.007	4.1	3.21e6	4202	764.6	2.62e6	5095	513.8	dd
5	123789-HxCDD	1.55e5	1.24e5	2.79e5	34.45	1.005	1.25	NO	54.489	0.230	0.943	9.0	2.97e6	4202	706.9	2.40e6	5095	471.1	db
6	1234678-HpCDD	1.29e5	1.25e5	2.53e5	36.78	1.000	1.03	NO	51.351	0.201	1.032	2.7	2.03e6	3172	638.9	1.92e6	2950	650.8	bb
7	OCDD	2.22e5	2.51e5	4.73e5	39.87	1.000	0.88	NO	109.694	0.216	1.092	9.7	2.53e6	2253	1124.8	2.83e6	2043	1385.2	bd
8	2378-TCDF	4.00e4	4.95e4	8.94e4	25.66	1.001	0.81	NO	9.165	0.114	0.901	-8.3	4.01e5	1557	257.6	5.05e5	2657	190.0	bb
9	12378-PeCDF	2.29e5	1.52e5	3.81e5	31.03	1.001	1.51	NO	50.101	0.179	0.936	0.2	2.93e6	3869	758.2	1.95e6	2900	671.1	bb
10	23478-PeCDF	2.38e5	1.56e5	3.95e5	31.86	1.027	1.53	NO	53.006	0.182	0.969	6.0	4.67e6	3869	1206.1	3.08e6	2900	1063.5	bb
11	123478-HxCDF	1.98e5	1.61e5	3.59e5	33.62	0.998	1.23	NO	49.242	0.278	0.895	-1.5	4.35e6	7649	569.2	3.57e6	7228	493.5	bd
12	123678-HxCDF	2.39e5	1.97e5	4.35e5	33.69	1.000	1.21	NO	51.372	0.239	1.087	2.7	4.45e6	7649	581.4	3.61e6	7228	498.9	db
13	234678-HxCDF	2.18e5	1.78e5	3.97e5	34.10	1.012	1.22	NO	51.781	0.265	0.990	3.6	4.49e6	7649	587.5	3.53e6	7228	488.5	bb
14	123789-HxCDF	1.94e5	1.53e5	3.48e5	34.67	1.029	1.27	NO	54.789	0.319	0.867	9.6	3.57e6	7649	467.3	2.77e6	7228	383.1	bb
15	1234678-HpCDF	1.95e5	1.89e5	3.84e5	35.83	1.000	1.03	NO	50.591	0.146	1.292	1.2	3.30e6	4301	767.5	3.27e6	3166	1032.1	bb
16	1234789-HpCDF	1.56e5	1.54e5	3.10e5	37.24	1.040	1.01	NO	56.077	0.200	1.043	12.2	2.25e6	4301	523.9	2.23e6	3166	705.2	bb
17	OCDF	2.63e5	2.87e5	5.51e5	40.07	1.005	0.92	NO	103.103	0.173	1.271	3.1	3.01e6	2043	1473.2	3.27e6	2226	1469.1	bd
18	13C-2378-TCDD	2.59e5	3.25e5	5.84e5	26.54	1.027	0.80	NO	91.022	0.172	1.019	-9.0	2.50e6	2727	917.7	3.17e6	1675	1892.5	bb
19	13C-12378-PeCDD	3.01e5	1.93e5	4.94e5	32.05	1.240	1.56	NO	90.736	0.166	0.862	-9.3	6.10e6	1703	3580.7	4.02e6	1885	2132.2	bb
20	13C-123678-HxCDD	3.29e5	2.64e5	5.93e5	34.27	0.995	1.25	NO	96.704	0.146	1.075	-3.3	6.48e6	2960	2189.8	5.23e6	3751	1393.5	dd
21	13C-1234678-HpCDD	2.54e5	2.37e5	4.91e5	36.77	1.068	1.07	NO	111.319	0.173	0.891	11.3	3.92e6	3023	1295.2	3.75e6	2699	1388.1	bd
22	13C-OCDD	4.14e5	4.53e5	8.67e5	39.87	1.158	0.91	NO	235.313	0.195	0.786	17.7	4.78e6	3084	1549.6	5.30e6	2298	2306.9	bb
23	13C-2378-TCDF	4.38e5	5.55e5	9.92e5	25.65	0.992	0.79	NO	95.161	0.109	1.733	-4.8	4.14e6	1835	2258.9	5.36e6	2683	1998.5	bb
24	13C-12378-PeCDF	4.99e5	3.15e5	8.14e5	31.01	1.200	1.58	NO	83.999	0.201	1.422	-16.0	6.22e6	4547	1367.9	3.98e6	3232	1232.5	bd
25	13C-123678-HxCDF	2.79e5	5.22e5	8.01e5	33.68	0.978	0.54	NO	89.159	0.160	1.454	-10.8	5.13e6	4185	1225.3	9.98e6	6581	1517.2	dd
26	13C-1234678-HpCDF	1.84e5	4.11e5	5.94e5	35.82	1.040	0.45	NO	99.795	0.150	1.079	-0.2	3.10e6	3058	1013.2	7.04e6	3603	1953.8	bb
27	13C-1234-TCDD	2.55e5	3.18e5	5.73e5	25.84	0.000	0.80	NO	100.000	0.193	1.000	0.0	2.54e6	2727	930.4	3.16e6	1675	1888.5	bb
28	13C-123789-HxCDD	3.07e5	2.44e5	5.51e5	34.44	0.000	1.26	NO	100.000	0.163	1.000	-0.0	5.74e6	2960	1938.6	4.68e6	3751	1246.6	db
29	37Cl-2378-TCDD (SS)	6.51e4		6.51e4	26.58	1.001			10.588	0.0453	1.116	5.9	6.41e5	1077	595.0				bb
30	13C-23478-PeCDF (SS)	4.94e5	3.19e5	8.13e5	31.85	1.027	1.55	NO	106.967	0.205	0.998	7.0	9.57e6	4547	2105.1	6.04e6	3232	1869.8	bb

Quantify Sample Summary Report **MassLynx 4.1**
Method 8290 CCAL Report

Dataset: C:\MassLynx\Default.pro\CCAL Results\8290-b10oct11a_2-14.qld

Last Altered: Tuesday, October 11, 2011 13:31:52 Eastern Standard Time
Printed: Tuesday, October 11, 2011 13:32:51 Eastern Standard Time

Name: b10oct11a_2-14, Date: 11-Oct-2011, Time: 10:17:20, ID: CS3WT UD110629-01.1, Description: , Job: b10oct11a_2, Task: HRP763_1, User: MJC

Name	Ion1Area	Ion2Area	Response	RT	RRT	RA	Fail?	pg/uL	EDL	RRF	%D	Height1	Noise1	S/N1	Height2	Noise2	S/N2	M
13C-123478-HxCDF (SS)	2.18e5	4.20e5	6.38e5	33.61	0.998	0.52	NO	98.352	0.226	0.796	-1.6	4.78e6	4185	1141.5	9.14e6	6581	1389.0	bd
13C-123478-HxCDD (SS)	2.77e5	2.20e5	4.97e5	34.20	0.998	1.26	NO	97.365	0.167	0.838	-2.6	6.09e6	2960	2056.5	4.70e6	3751	1253.5	bd
13C-1234789-HpCDF (SS)	1.50e5	3.32e5	4.83e5	37.23	1.039	0.45	NO	107.363	0.220	0.812	7.4	2.20e6	3058	718.4	4.77e6	3603	1323.0	bb

Quantify Sample Report **MassLynx 4.1**
Method 8290 CCAL Report

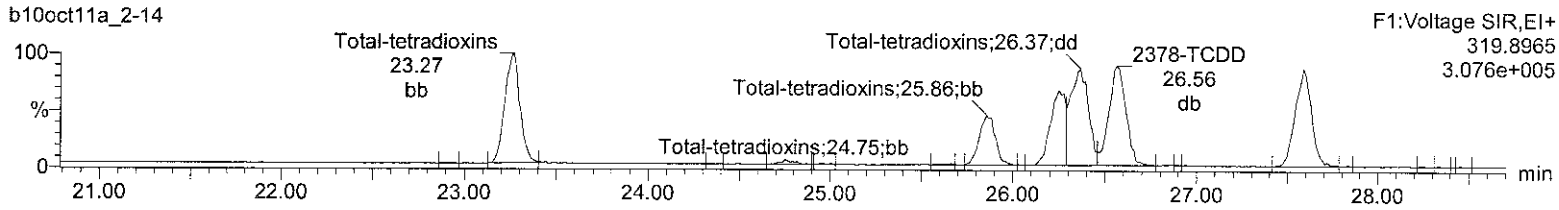
Dataset: C:\MassLynx\Default.pro\CCAL Results\8290-b10oct11a_2-14.qld

Last Altered: Tuesday, October 11, 2011 13:31:52 Eastern Standard Time
Printed: Tuesday, October 11, 2011 13:32:51 Eastern Standard Time

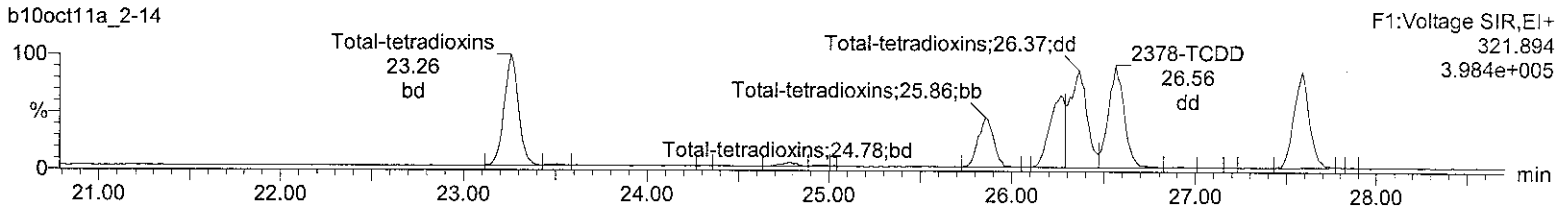
Method: C:\MassLynx\Default.pro\Methdb\CFA_EPA8290_101011.mdb 10 Oct 2011 14:05:54
Calibration: C:\MassLynx\DEFAULT.PRO\CurveDB\8290-b01nov10b.cdb 02 Nov 2010 08:19:01

Name: b10oct11a_2-14, Date: 11-Oct-2011, Time: 10:17:20, ID: CS3WT UD110629-01.1, Description: , Job: b10oct11a_2, Task: HRP763_1, User: MJC

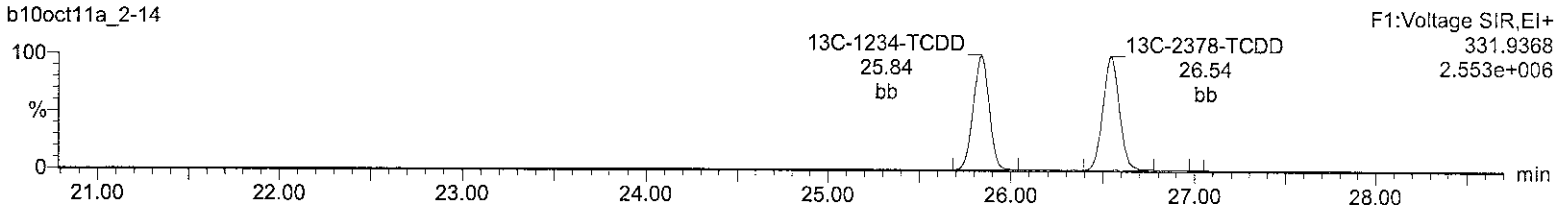
Total-tetradioxins



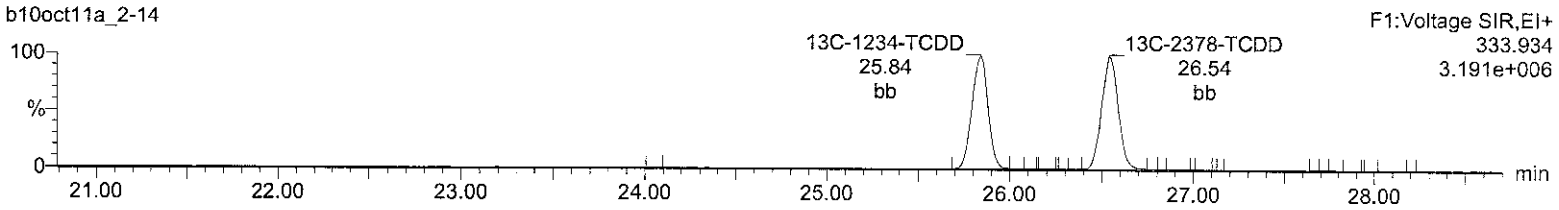
Total-tetradioxins



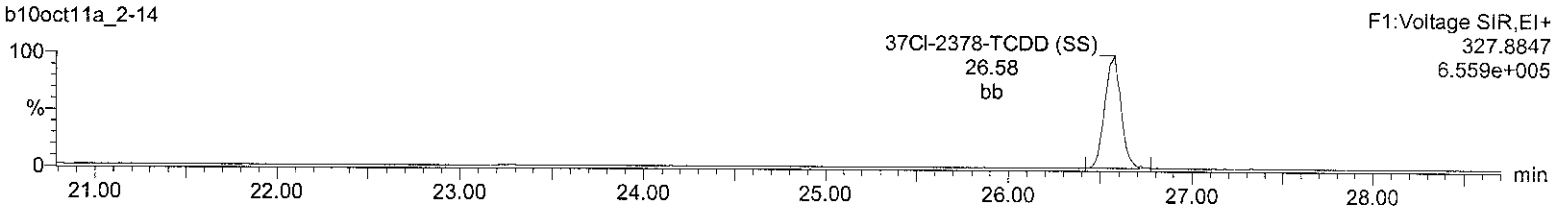
13C-2378-TCDD



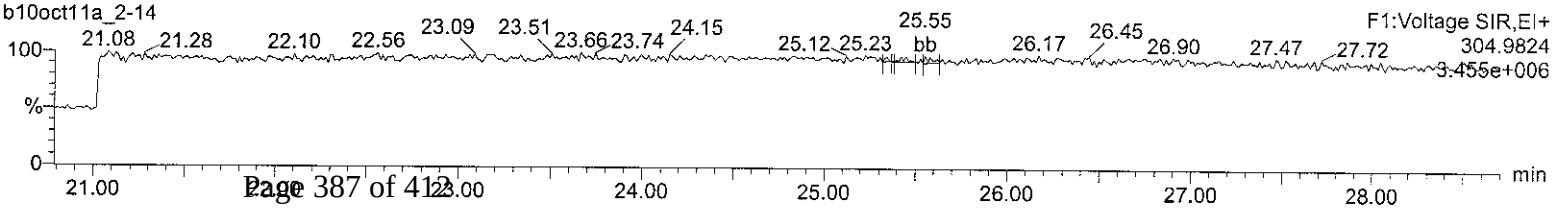
13C-2378-TCDD



37Cl-2378-TCDD (SS)



Lock Mass F1



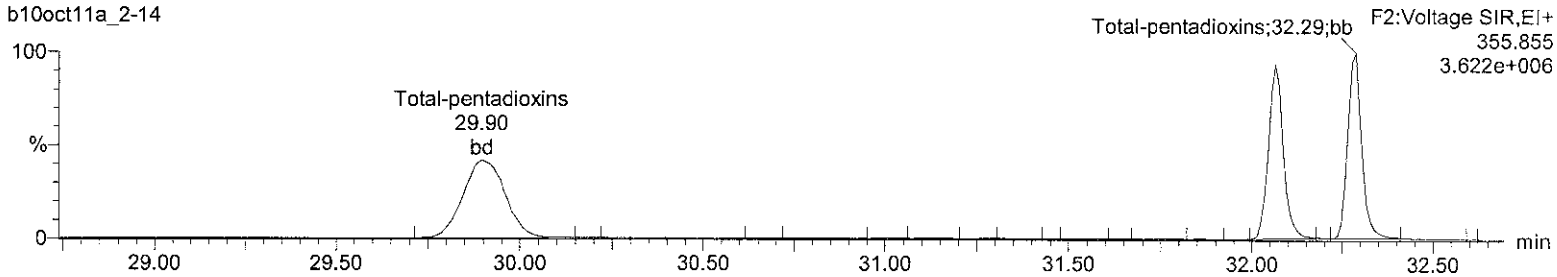
Quantify Sample Report **MassLynx 4.1**
Method 8290 CCAL Report

Dataset: C:\MassLynx\Default.pro\CCAL Results\8290-b10oct11a_2-14.qld

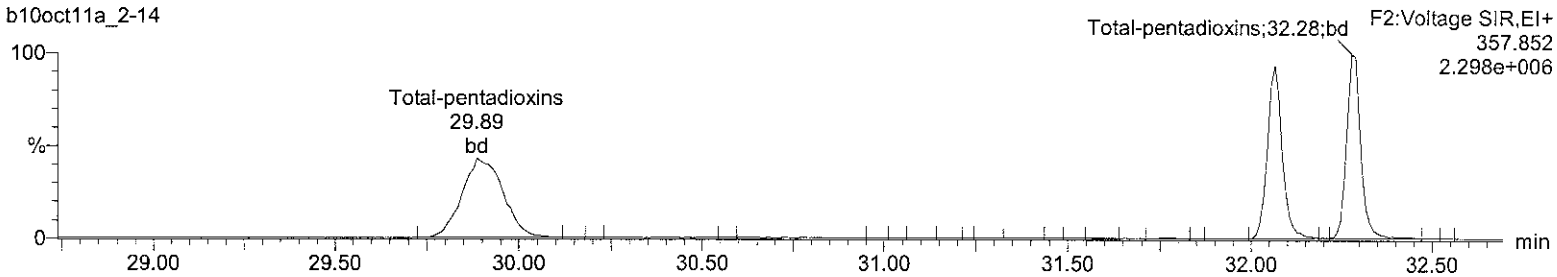
Last Altered: Tuesday, October 11, 2011 13:31:52 Eastern Standard Time
Printed: Tuesday, October 11, 2011 13:32:51 Eastern Standard Time

Name: b10oct11a_2-14, Date: 11-Oct-2011, Time: 10:17:20, ID: CS3WT UD110629-01.1, Description: , Job: b10oct11a_2, Task: HRP763_1, User: MJC

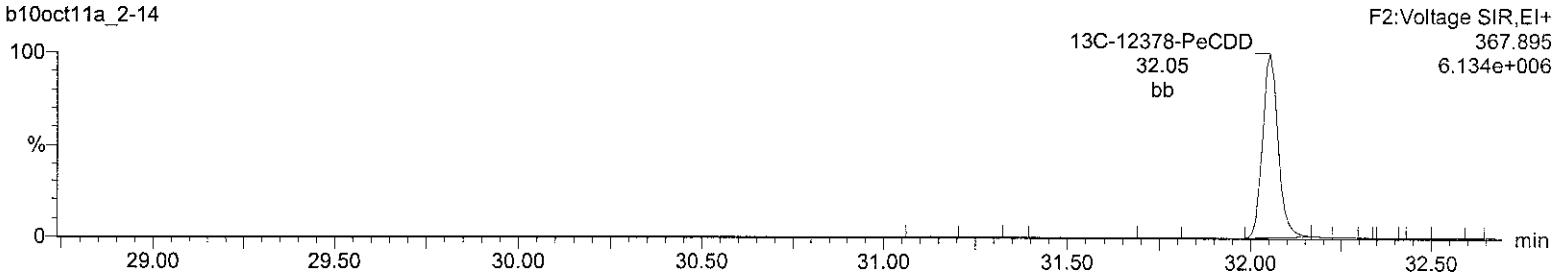
Total-pentadioxins



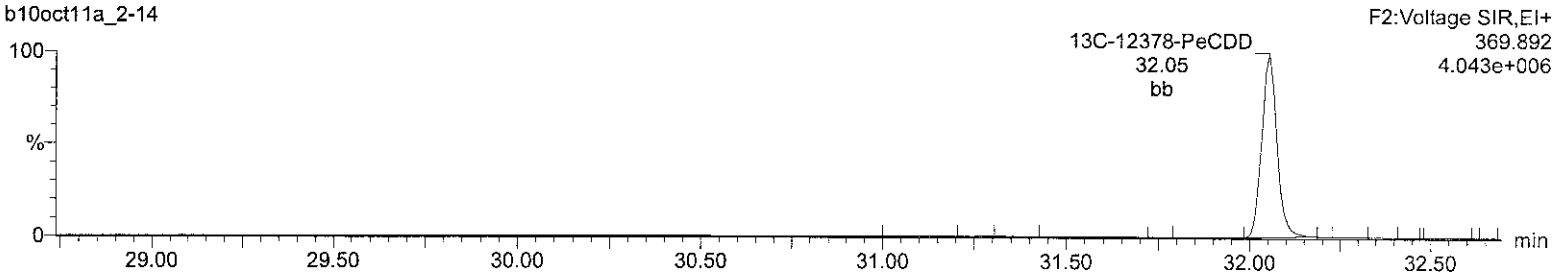
Total-pentadioxins



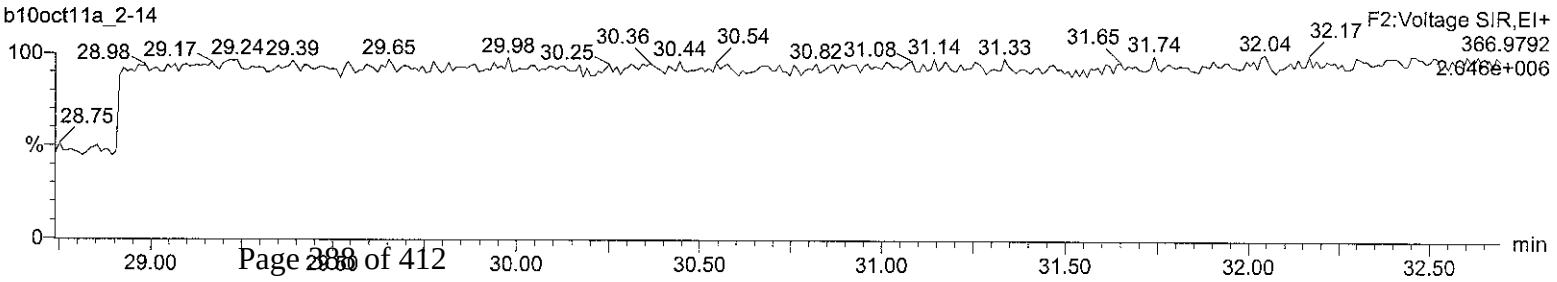
13C-12378-PeCDD



13C-12378-PeCDD



Lock Mass F2



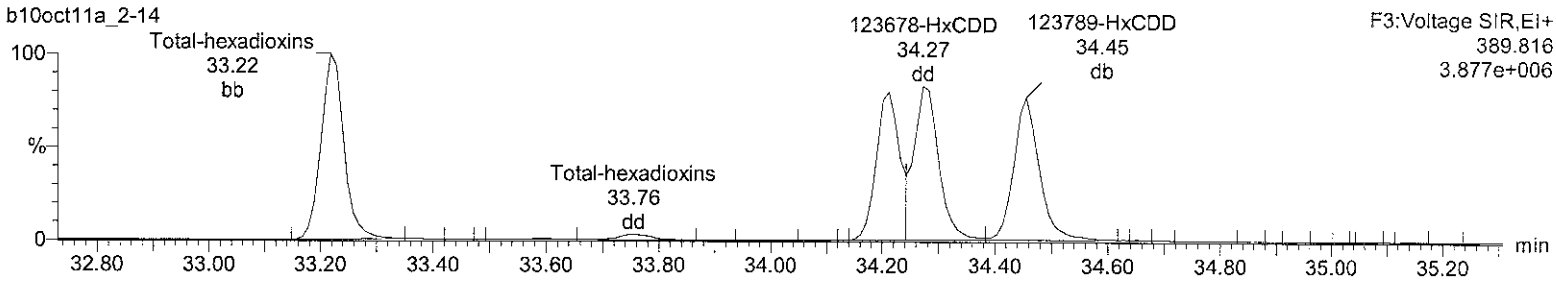
Quantify Sample Report **MassLynx 4.1**
Method 8290 CCAL Report

Dataset: C:\MassLynx\Default.pro\CCAL Results\8290-b10oct11a_2-14.qld

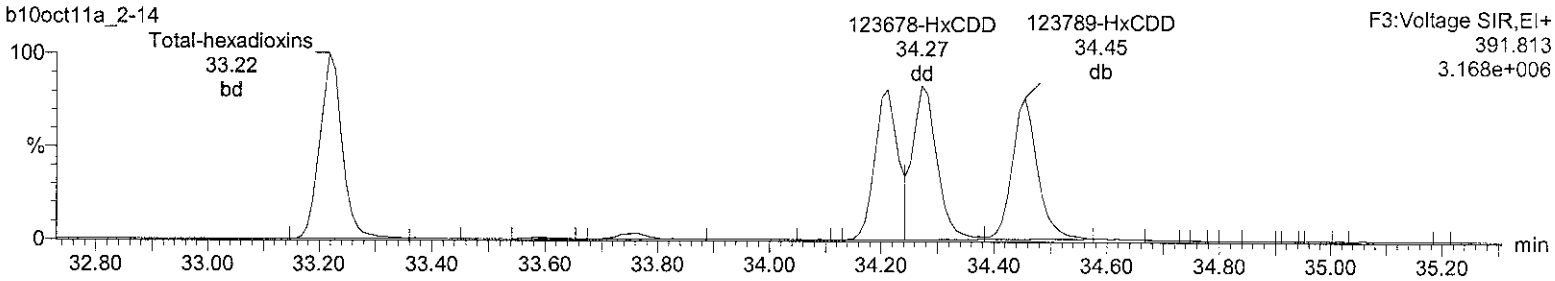
Last Altered: Tuesday, October 11, 2011 13:31:52 Eastern Standard Time
Printed: Tuesday, October 11, 2011 13:32:51 Eastern Standard Time

Name: b10oct11a_2-14, Date: 11-Oct-2011, Time: 10:17:20, ID: CS3WT UD110629-01.1, Description: , Job: b10oct11a_2, Task: HRP763_1, User: MJC

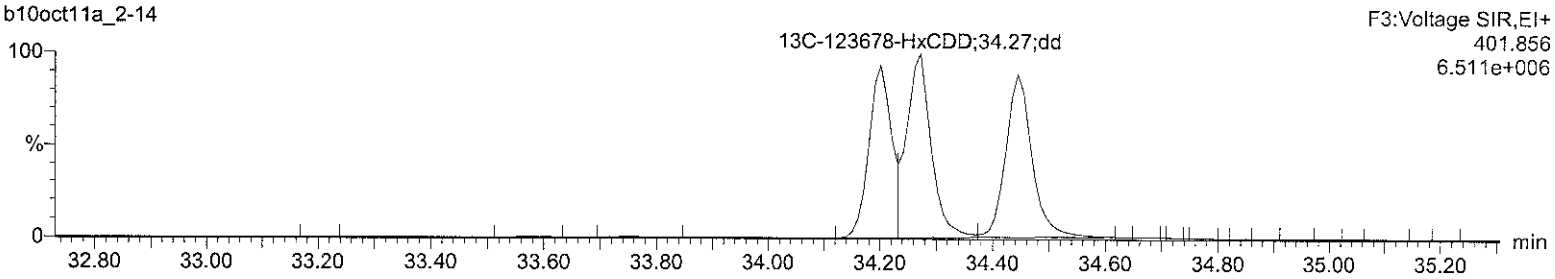
Total-hexadioxins



Total-hexadioxins



13C-123678-HxCDD



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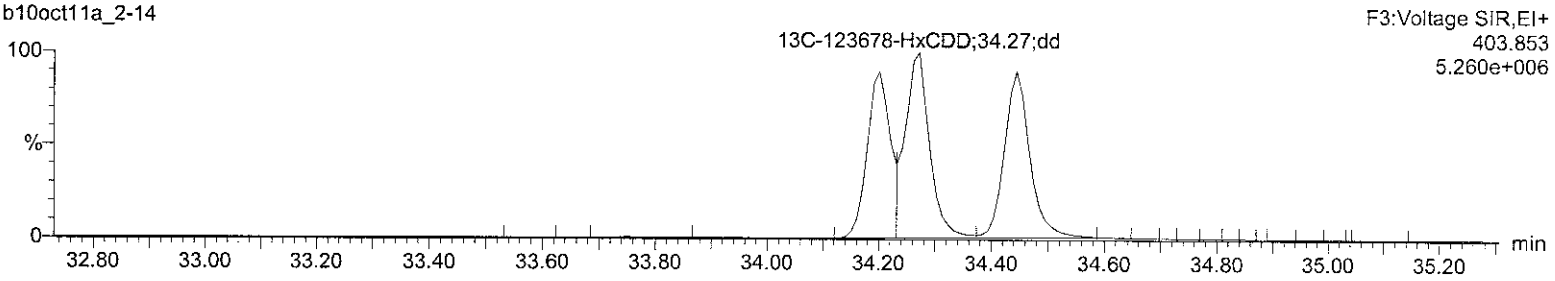
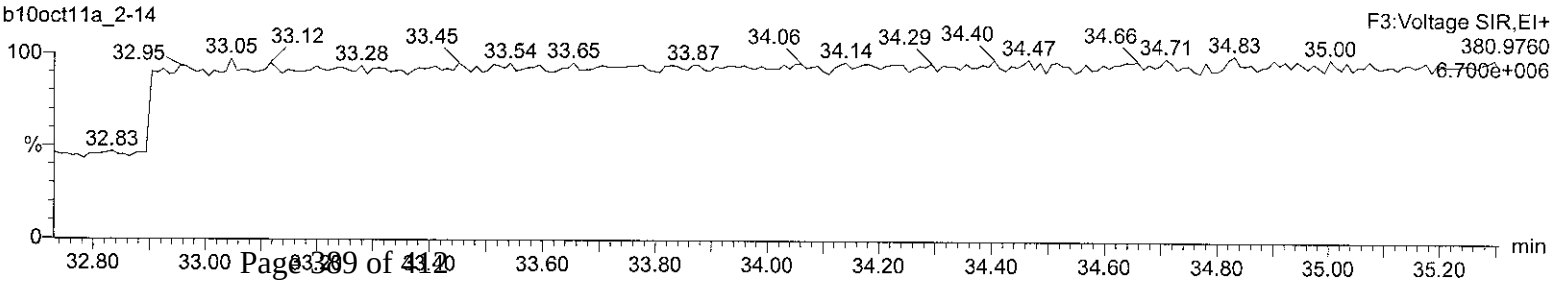


Lock Mass F3



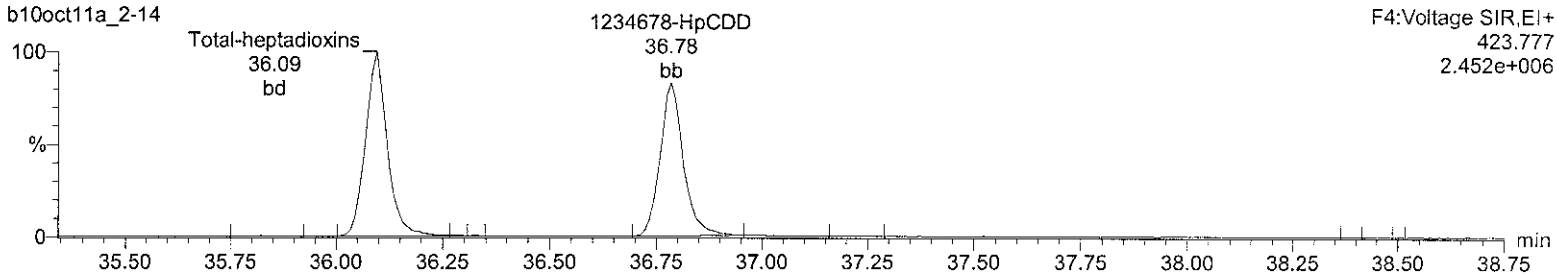
Quantify Sample Report **MassLynx 4.1**
Method 8290 CCAL Report

Dataset: C:\MassLynx\Default.pro\CCAL Results\8290-b10oct11a_2-14.qld

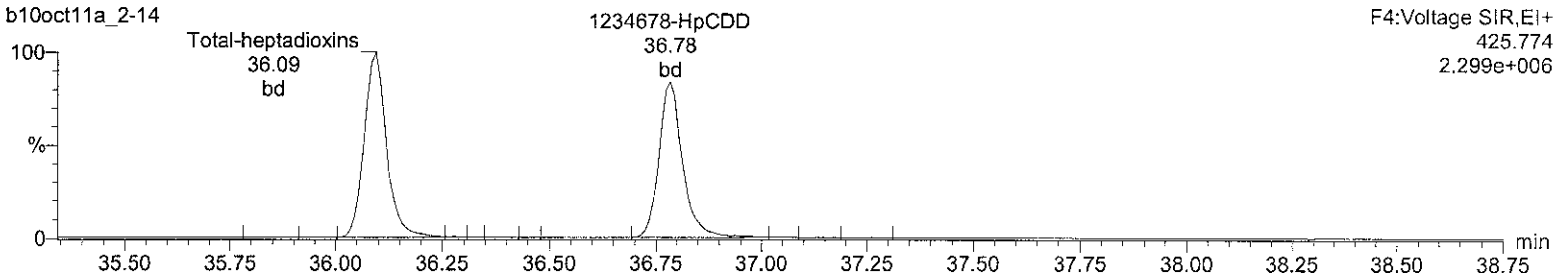
Last Altered: Tuesday, October 11, 2011 13:31:52 Eastern Standard Time
Printed: Tuesday, October 11, 2011 13:32:51 Eastern Standard Time

Name: b10oct11a_2-14, Date: 11-Oct-2011, Time: 10:17:20, ID: CS3WT UD110629-01.1, Description: , Job: b10oct11a_2, Task: HRP763_1, User: MJC

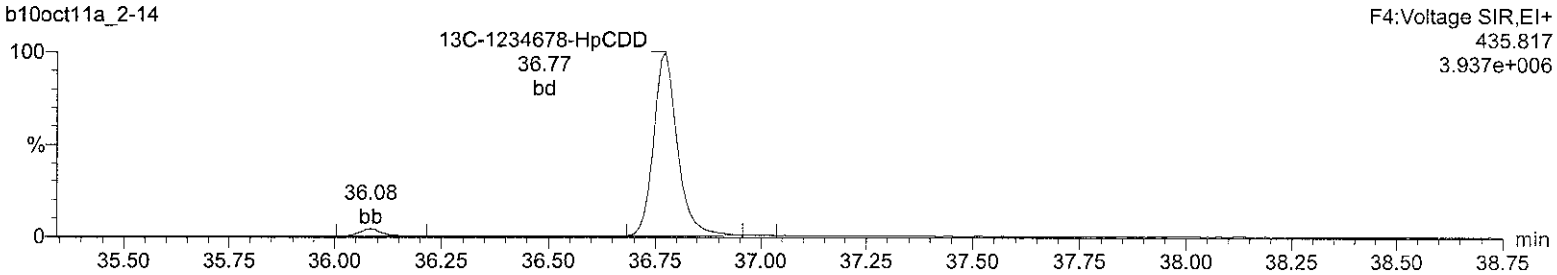
Total-heptadioxins



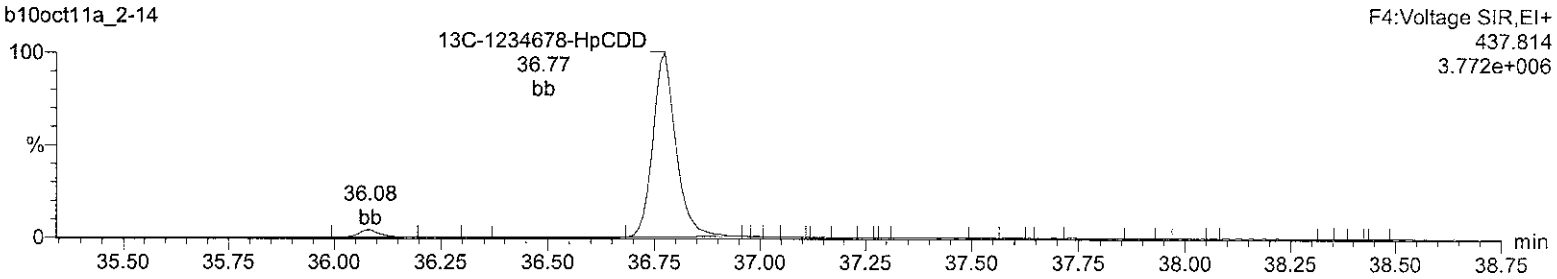
Total-heptadioxins



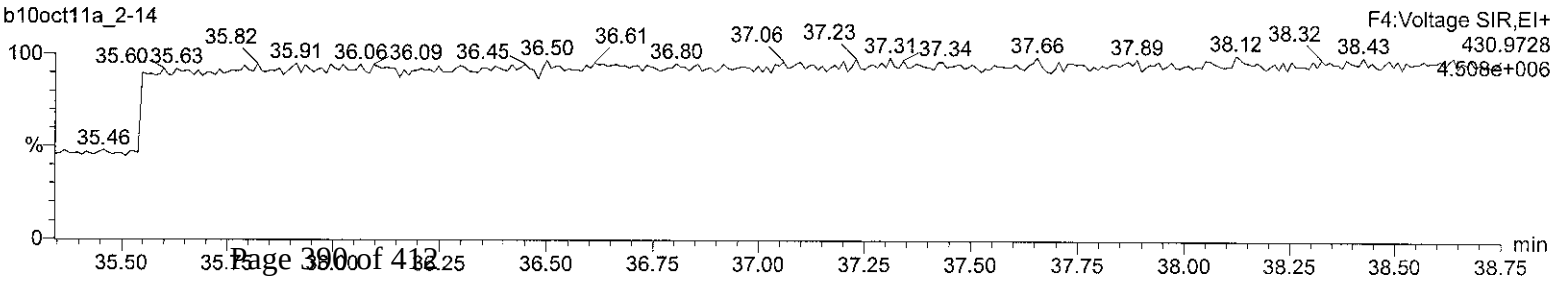
13C-1234678-HpCDD



13C-1234678-HpCDD



Lock Mass F4



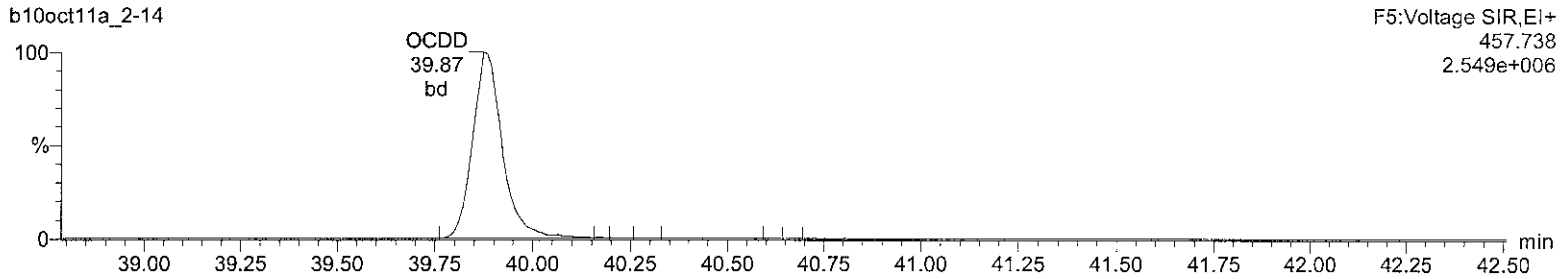
Quantify Sample Report **MassLynx 4.1**
Method 8290 CCAL Report

Dataset: C:\MassLynx\Default.pro\CCAL Results\8290-b10oct11a_2-14.qld

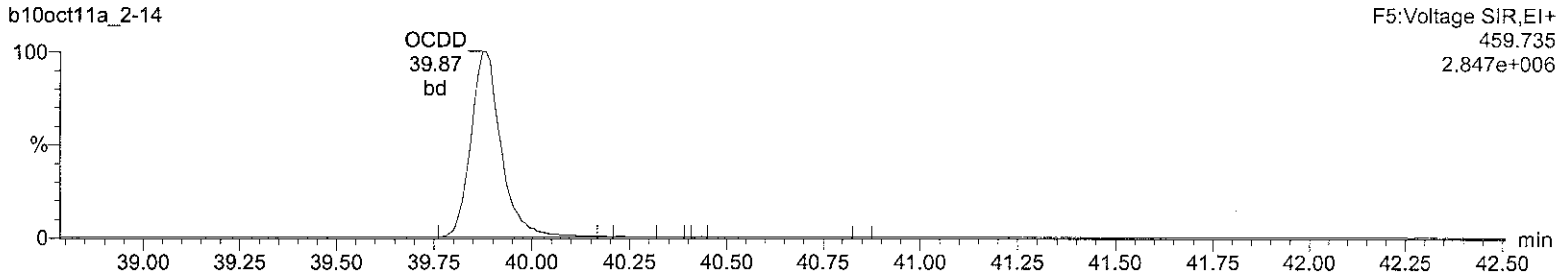
Last Altered: Tuesday, October 11, 2011 13:31:52 Eastern Standard Time
Printed: Tuesday, October 11, 2011 13:32:51 Eastern Standard Time

Name: b10oct11a_2-14, Date: 11-Oct-2011, Time: 10:17:20, ID: CS3WT UD110629-01.1, Description: , Job: b10oct11a_2, Task: HRP763_1, User: MJC

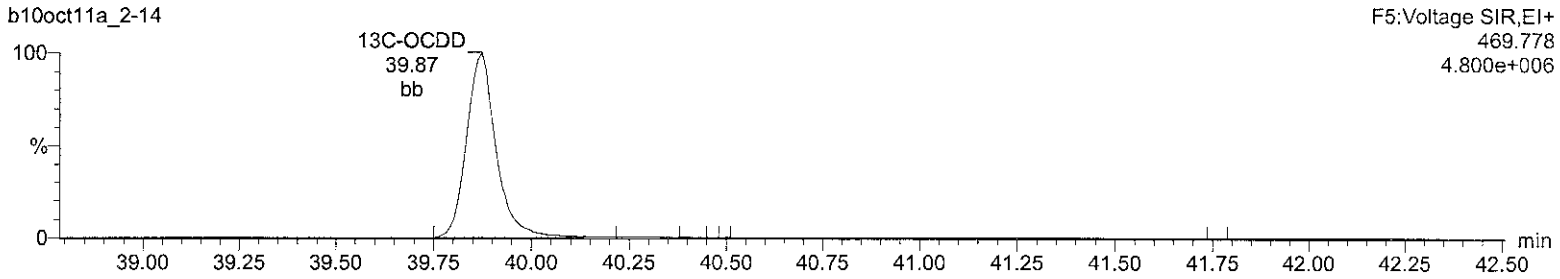
OCDD



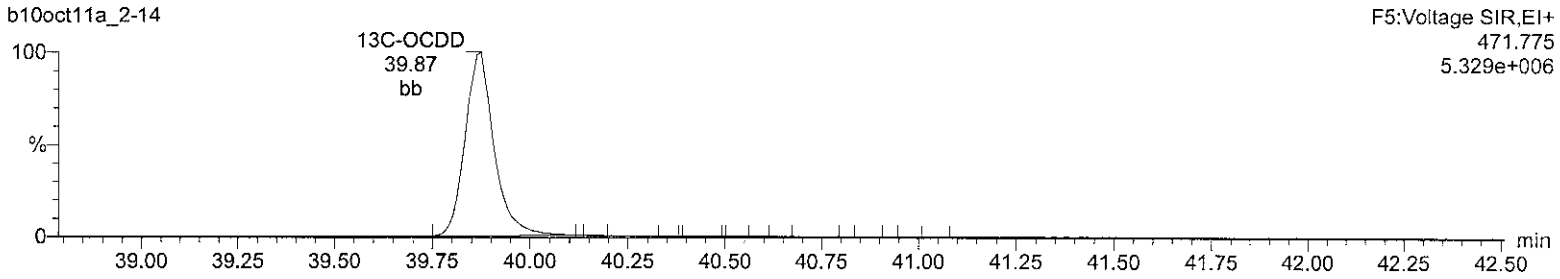
OCDD



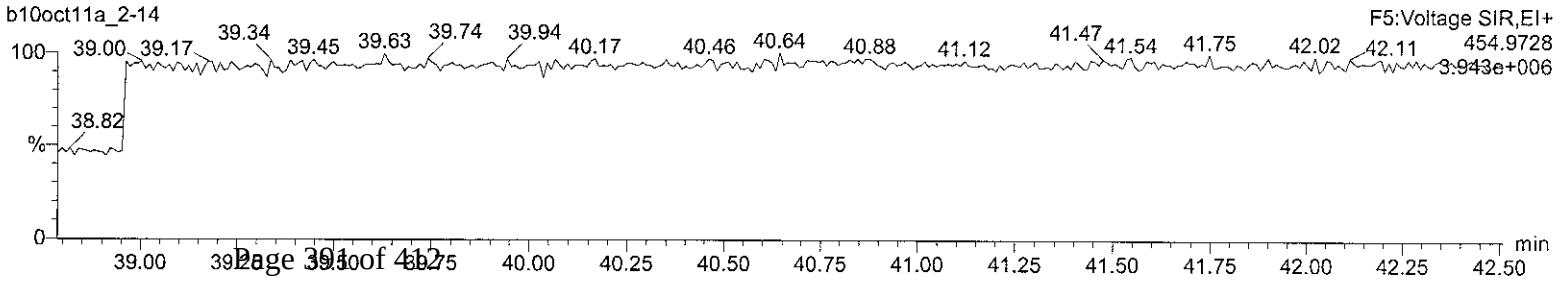
13C-OCDD



13C-OCDD



Lock Mass F5



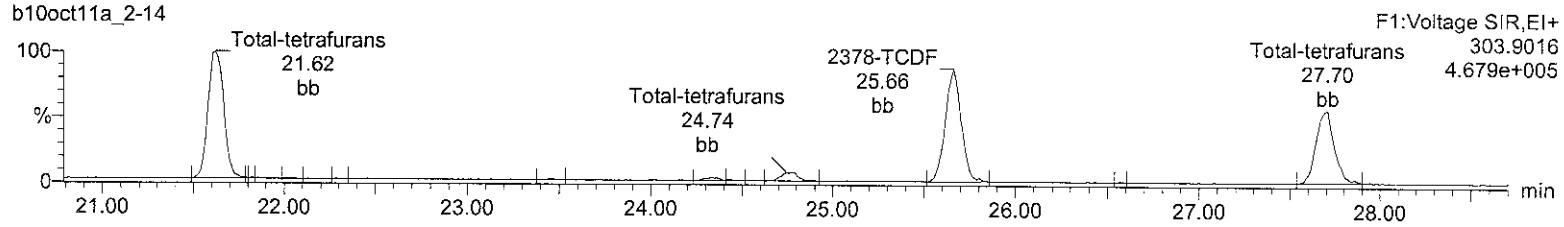
Quantify Sample Report **MassLynx 4.1**
Method 8290 CCAL Report

Dataset: C:\MassLynx\Default.pro\CCAL Results\8290-b10oct11a_2-14.qld

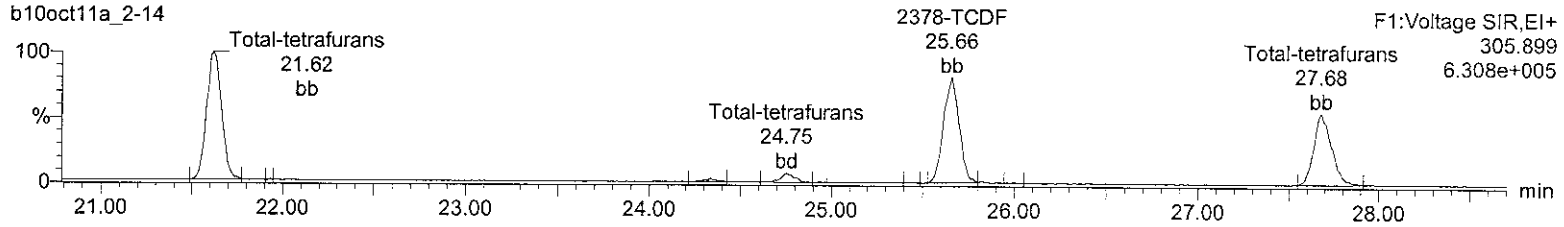
Last Altered: Tuesday, October 11, 2011 13:31:52 Eastern Standard Time
Printed: Tuesday, October 11, 2011 13:32:51 Eastern Standard Time

Name: b10oct11a_2-14, Date: 11-Oct-2011, Time: 10:17:20, ID: CS3WT UD110629-01.1, Description: , Job: b10oct11a_2, Task: HRP763_1, User: MJC

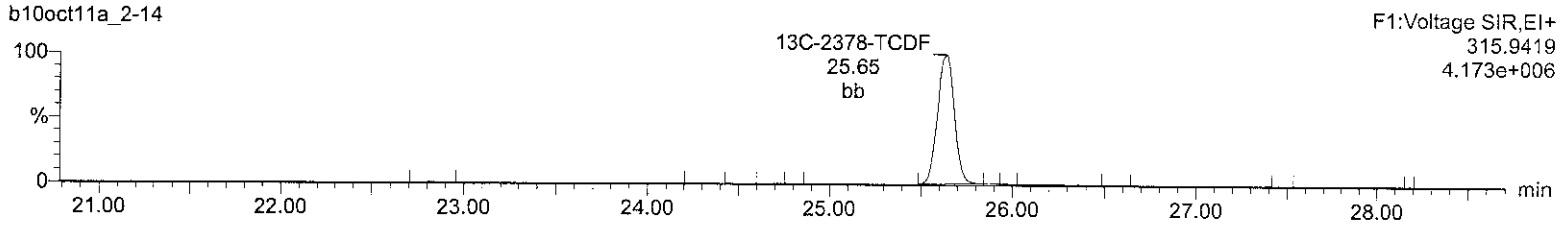
Total-tetrafurans



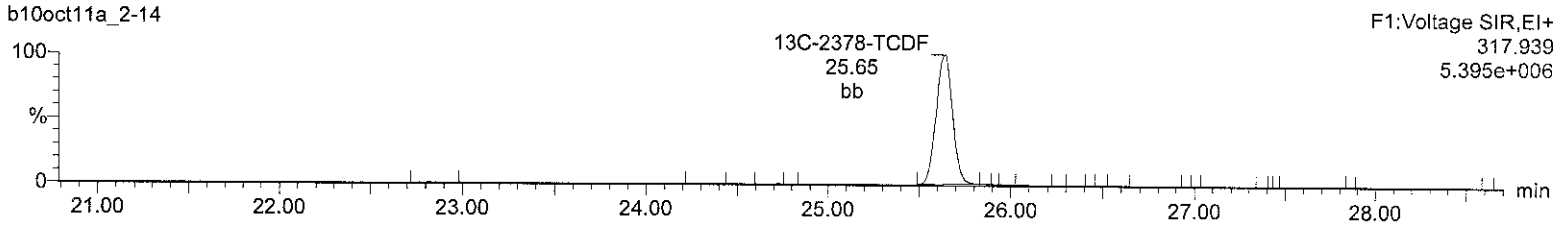
Total-tetrafurans



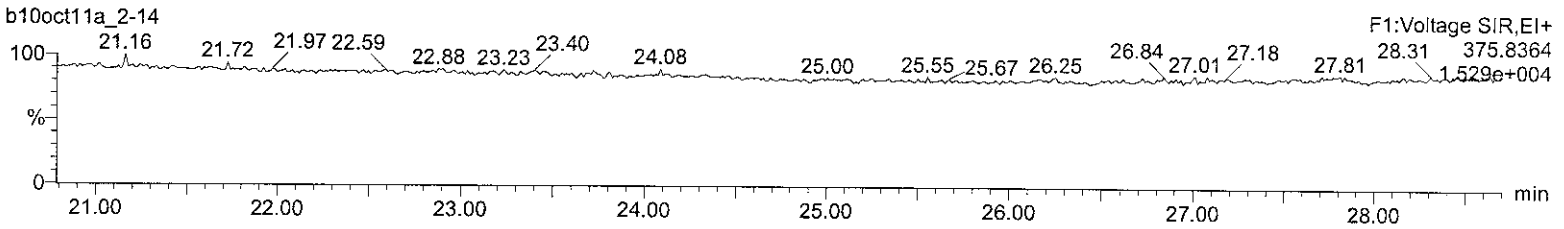
13C-2378-TCDF



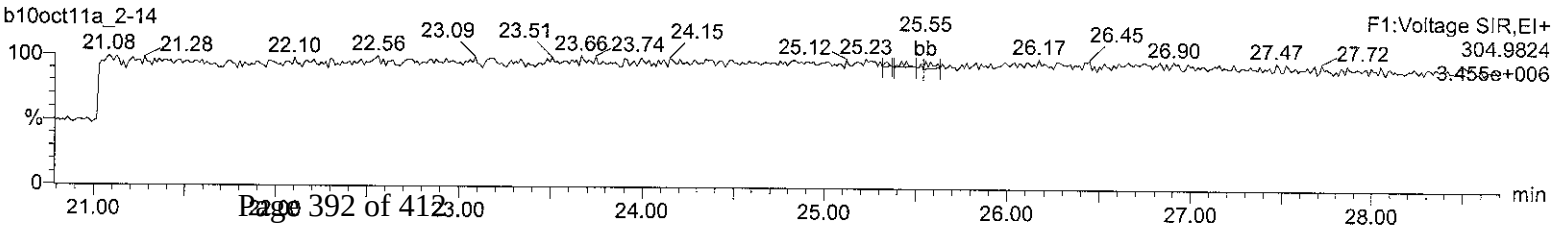
13C-2378-TCDF



HxDPE



Lock Mass F1



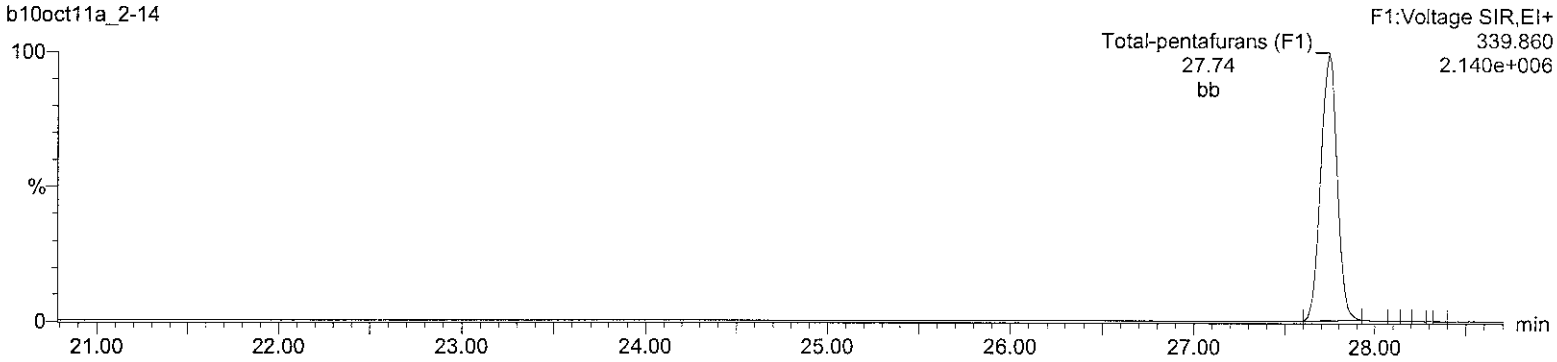
Quantify Sample Report **MassLynx 4.1**
Method 8290 CCAL Report

Dataset: C:\MassLynx\Default.pro\CCAL Results\8290-b10oct11a_2-14.qld

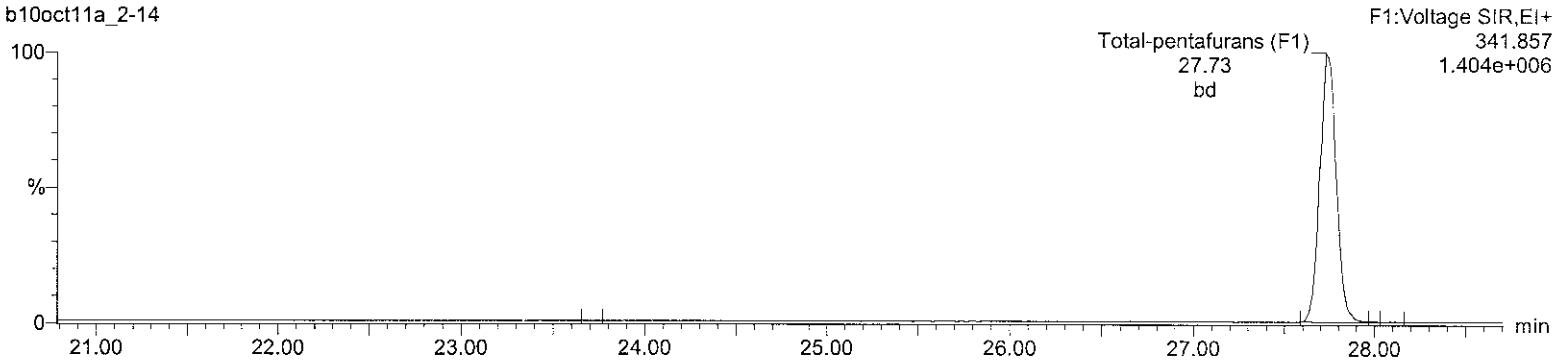
Last Altered: Tuesday, October 11, 2011 13:31:52 Eastern Standard Time
Printed: Tuesday, October 11, 2011 13:32:51 Eastern Standard Time

Name: b10oct11a_2-14, Date: 11-Oct-2011, Time: 10:17:20, ID: CS3WT UD110629-01.1, Description: , Job: b10oct11a_2, Task: HRP763_1, User: MJC

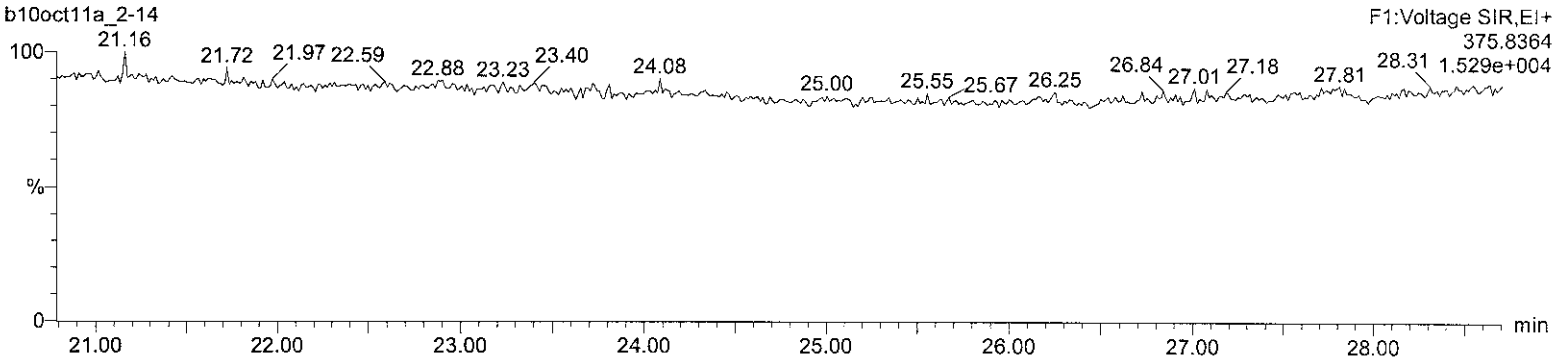
Total-pentafurans (F1)



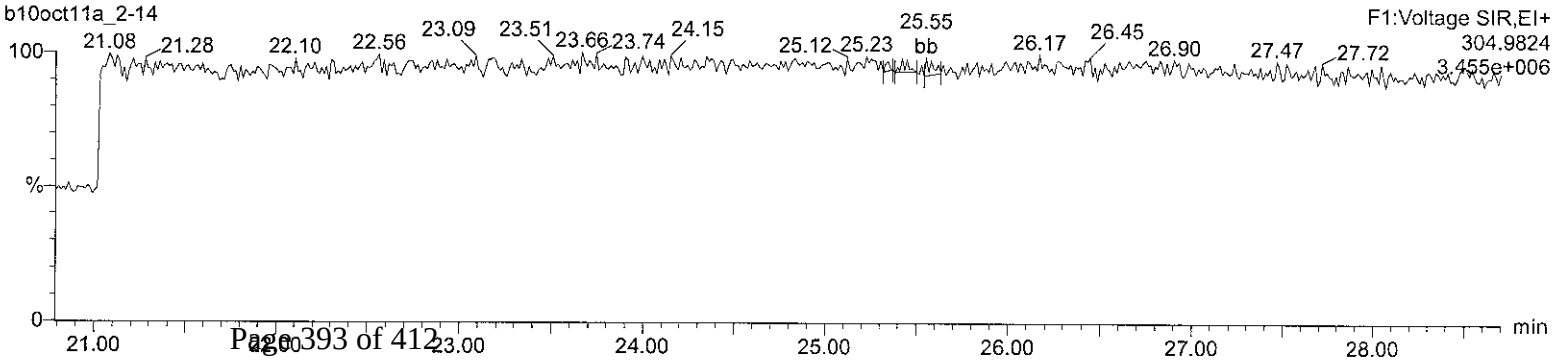
Total-pentafurans (F1)



HxDPE



Lock Mass F1



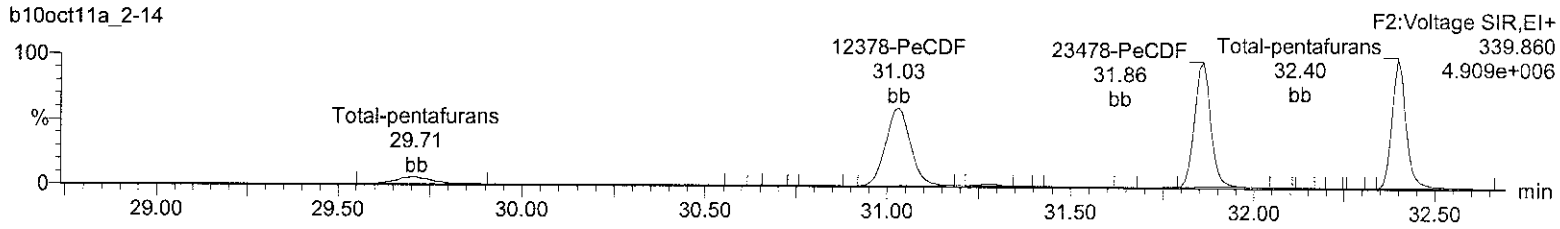
Quantify Sample Report **MassLynx 4.1**
Method 8290 CCAL Report

Dataset: C:\MassLynx\Default.pro\CCAL Results\8290-b10oct11a_2-14.qld

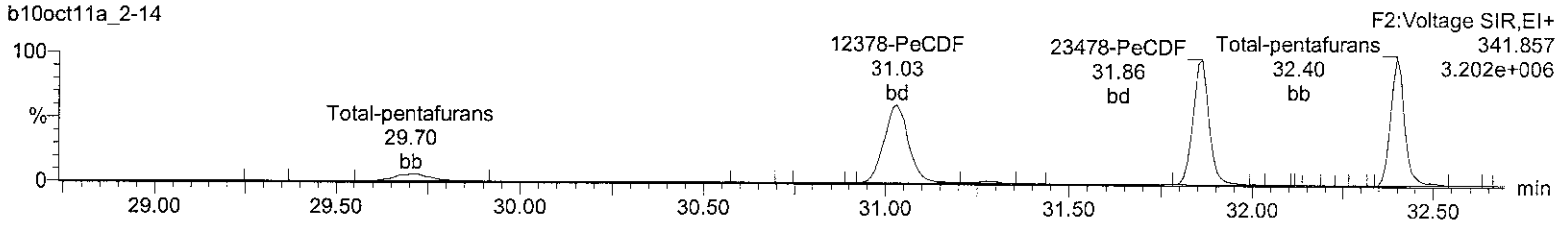
Last Altered: Tuesday, October 11, 2011 13:31:52 Eastern Standard Time
Printed: Tuesday, October 11, 2011 13:32:51 Eastern Standard Time

Name: b10oct11a_2-14, Date: 11-Oct-2011, Time: 10:17:20, ID: CS3WT UD110629-01.1, Description: , Job: b10oct11a_2, Task: HRP763_1, User: MJC

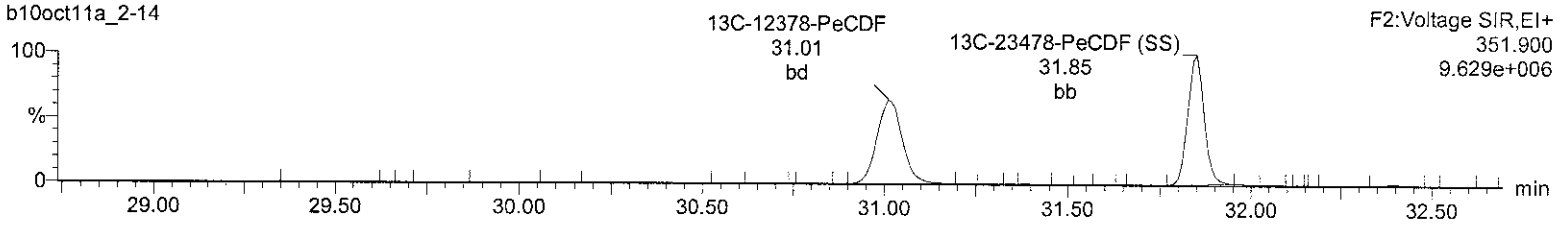
Total-pentafurans



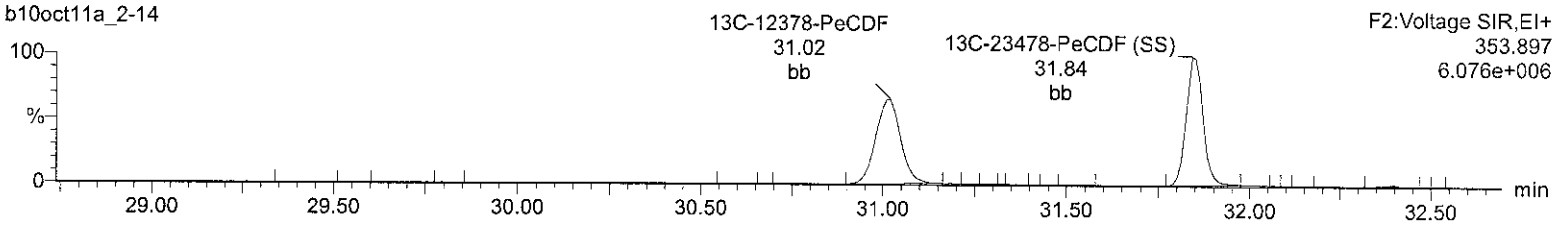
Total-pentafurans



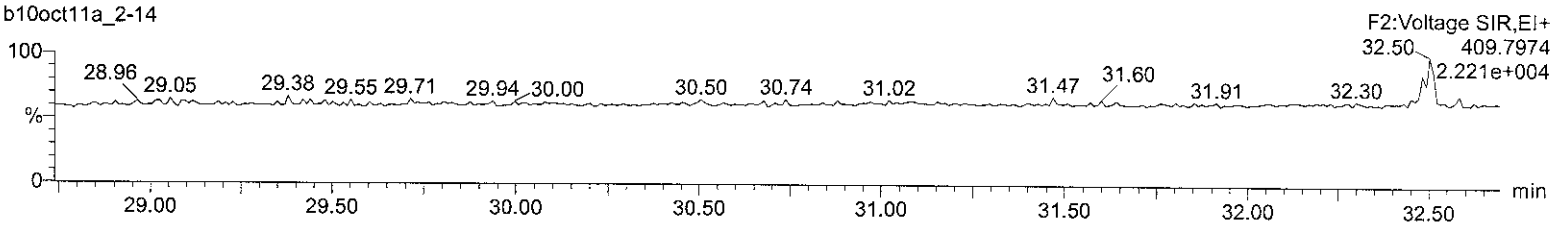
13C-12378-PeCDF



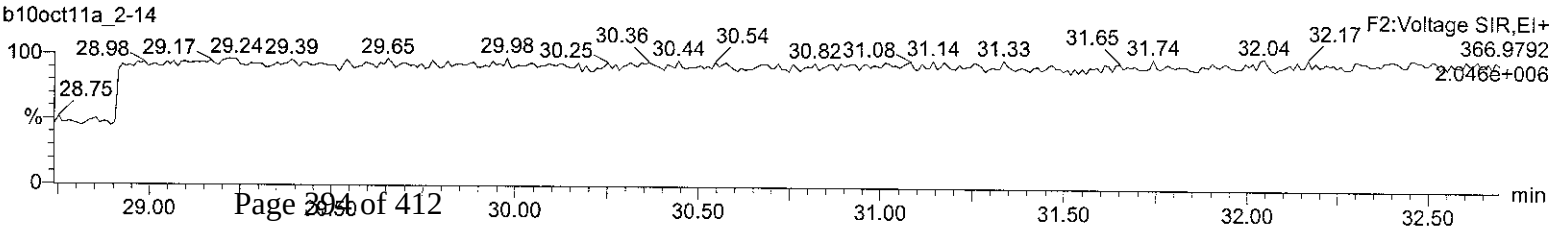
13C-12378-PeCDF



HpDPE



Lock Mass F2



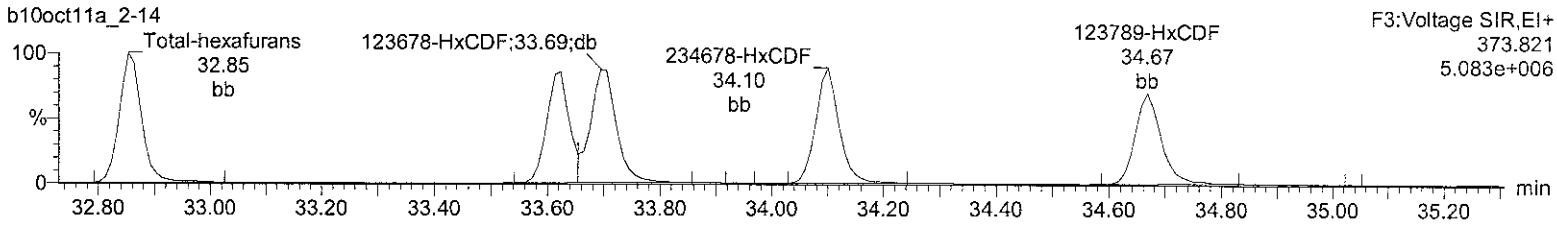
Quantify Sample Report **MassLynx 4.1**
Method 8290 CCAL Report

Dataset: C:\MassLynx\Default.pro\CCAL Results\8290-b10oct11a_2-14.qld

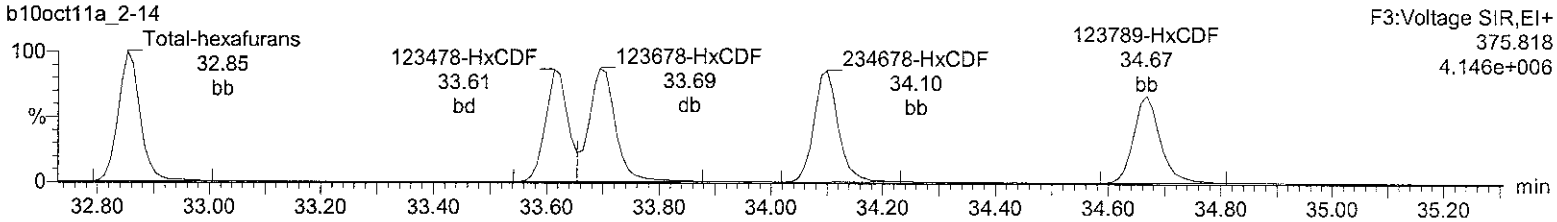
Last Altered: Tuesday, October 11, 2011 13:31:52 Eastern Standard Time
Printed: Tuesday, October 11, 2011 13:32:51 Eastern Standard Time

Name: b10oct11a_2-14, Date: 11-Oct-2011, Time: 10:17:20, ID: CS3WT UD110629-01.1, Description: , Job: b10oct11a_2, Task: HRP763_1, User: MJC

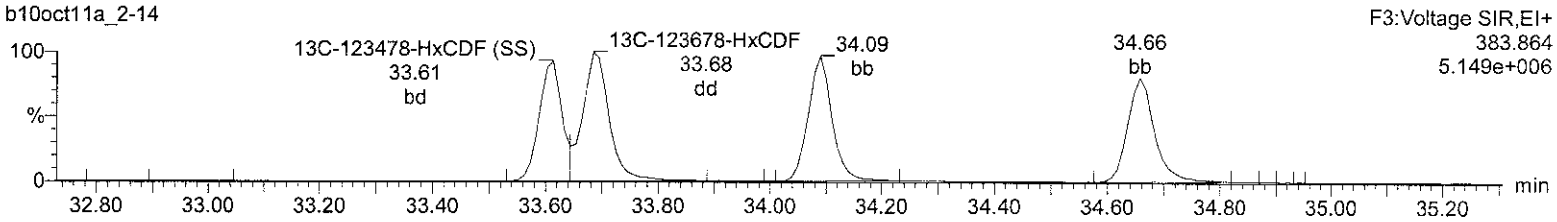
Total-hexafurans



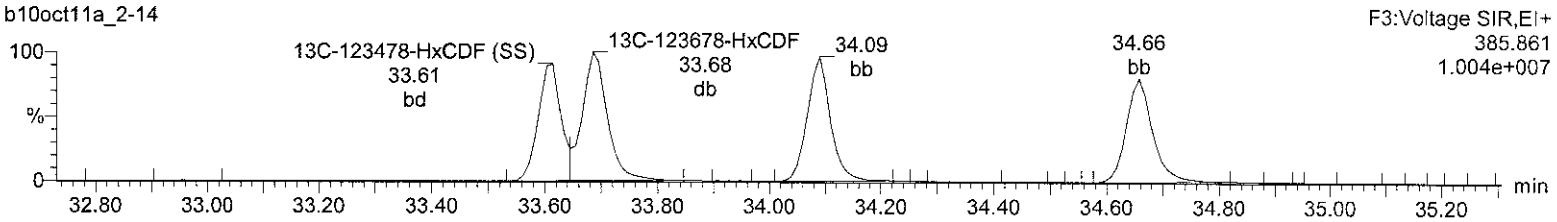
Total-hexafurans



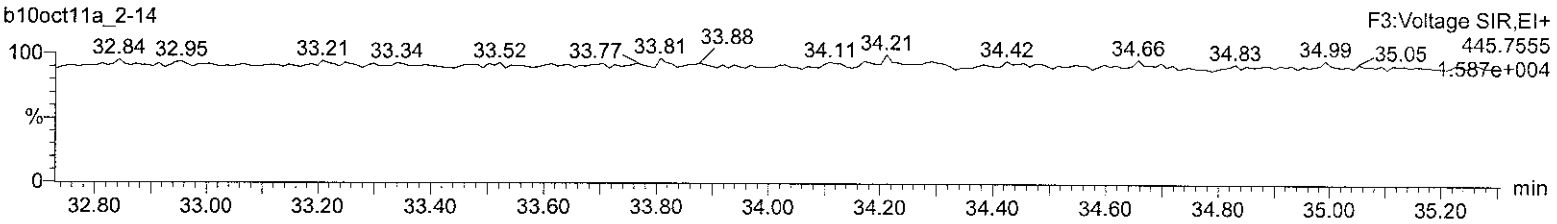
13C-123678-HxCDF



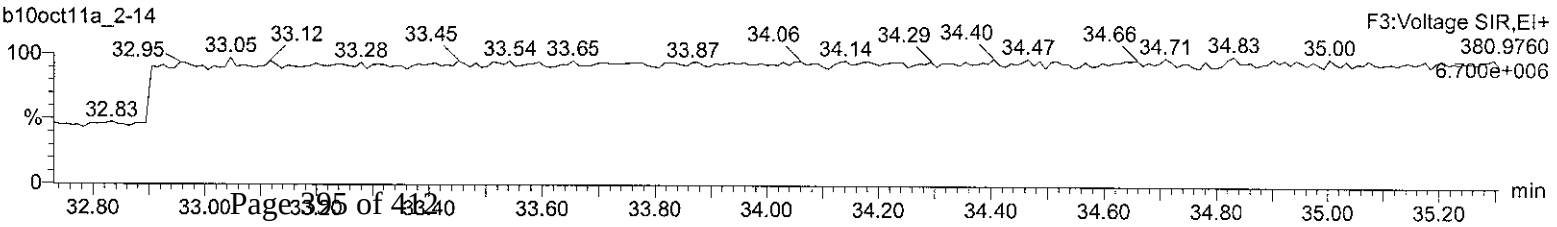
13C-123678-HxCDF



OcDPE



Lock Mass F3



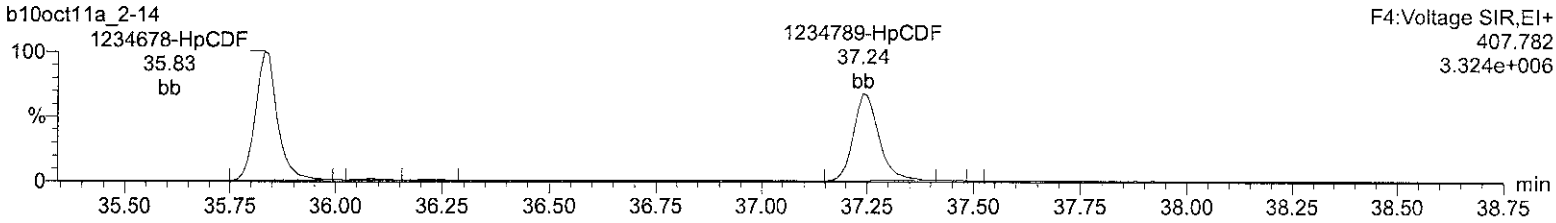
Quantify Sample Report **MassLynx 4.1**
Method 8290 CCAL Report

Dataset: C:\MassLynx\Default.pro\CCAL Results\8290-b10oct11a_2-14.qld

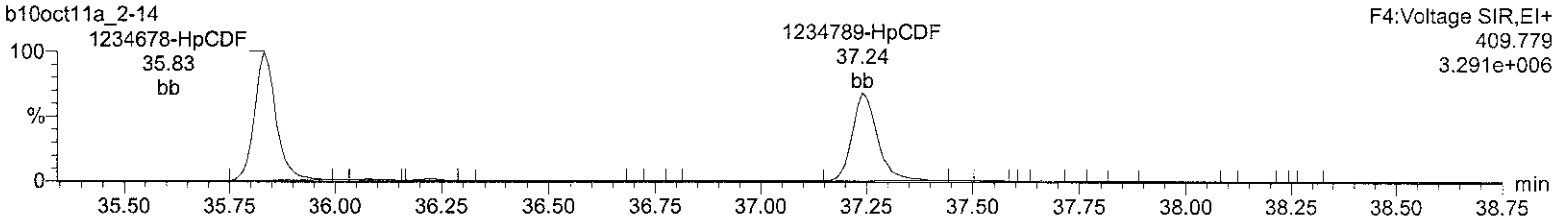
Last Altered: Tuesday, October 11, 2011 13:31:52 Eastern Standard Time
Printed: Tuesday, October 11, 2011 13:32:51 Eastern Standard Time

Name: b10oct11a_2-14, Date: 11-Oct-2011, Time: 10:17:20, ID: CS3WT UD110629-01.1, Description: , Job: b10oct11a_2, Task: HRP763_1, User: MJC

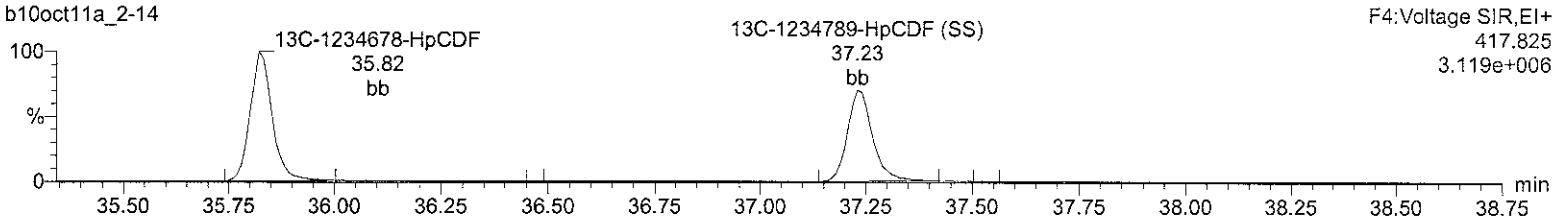
Total-heptafurans



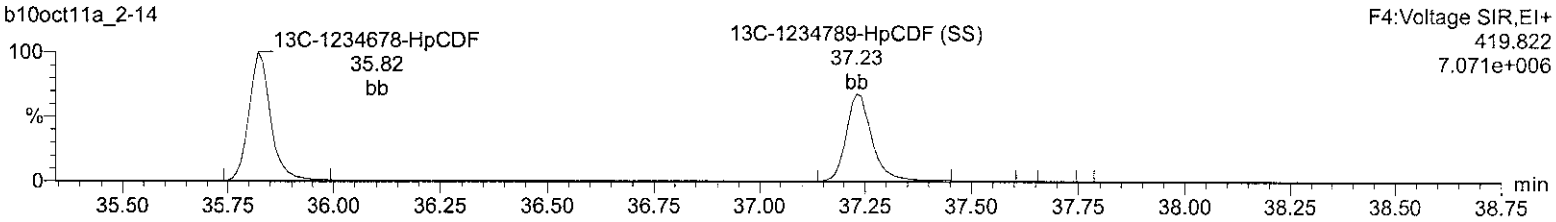
Total-heptafurans



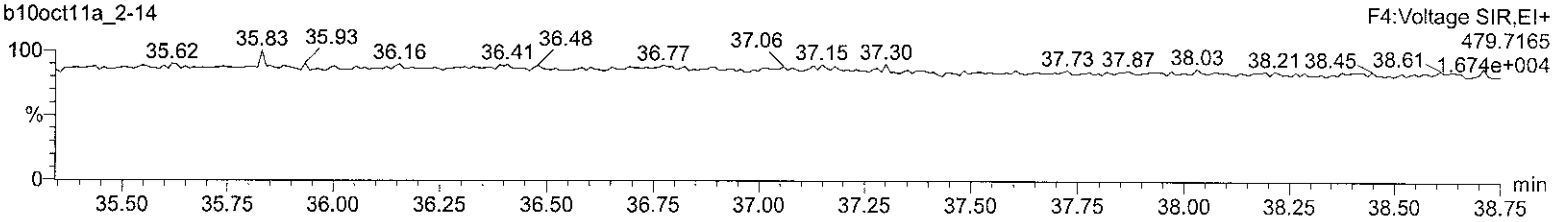
13C-1234678-HpCDF



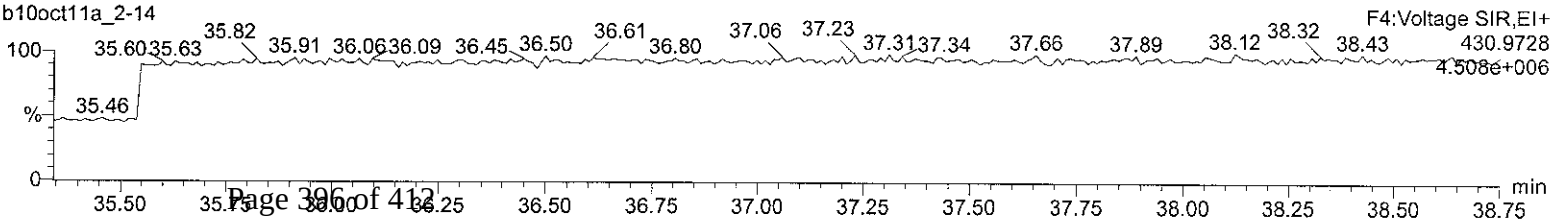
13C-1234678-HpCDF



NoDPE



Lock Mass F4



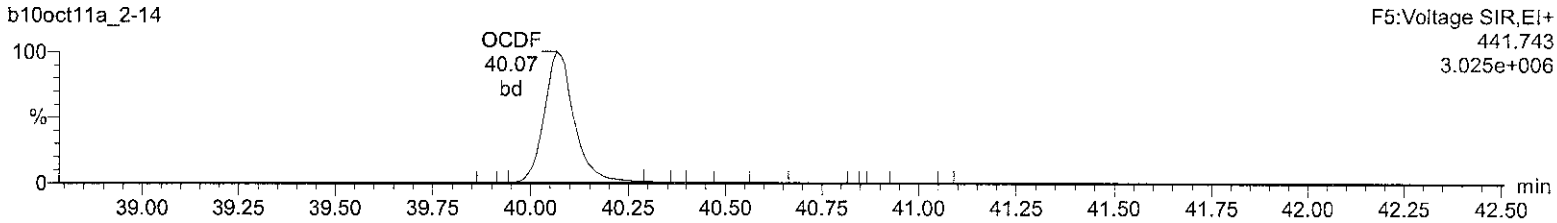
Quantify Sample Report **MassLynx 4.1**
Method 8290 CCAL Report

Dataset: C:\MassLynx\Default.pro\CCAL Results\8290-b10oct11a_2-14.qld

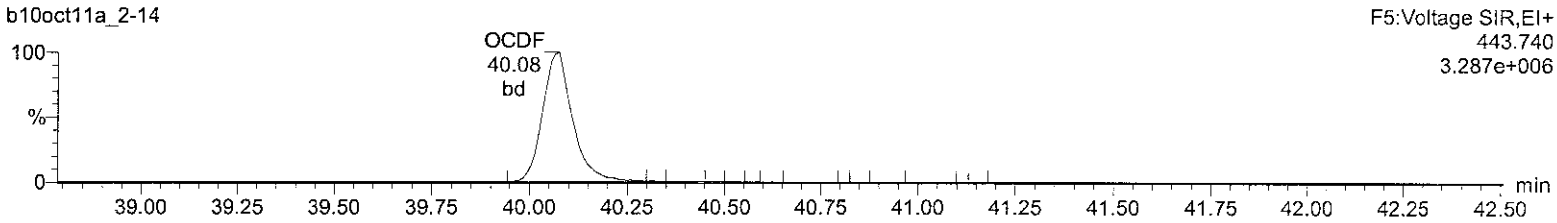
Last Altered: Tuesday, October 11, 2011 13:31:52 Eastern Standard Time
Printed: Tuesday, October 11, 2011 13:32:51 Eastern Standard Time

Name: b10oct11a_2-14, Date: 11-Oct-2011, Time: 10:17:20, ID: CS3WT UD110629-01.1, Description: , Job: b10oct11a_2, Task: HRP763_1, User: MJC

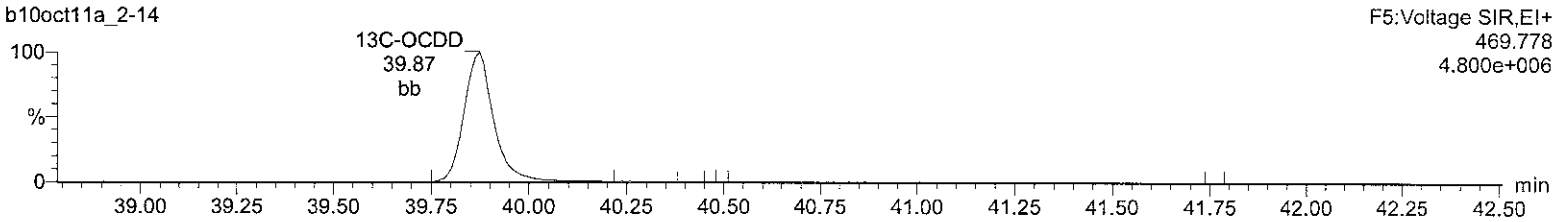
OCDF



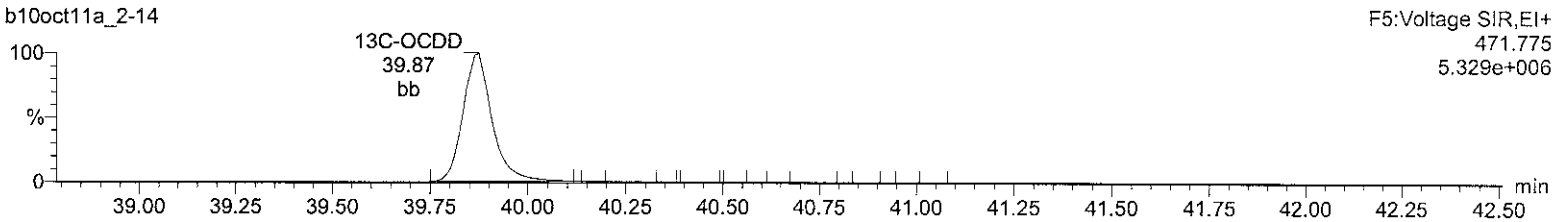
OCDF



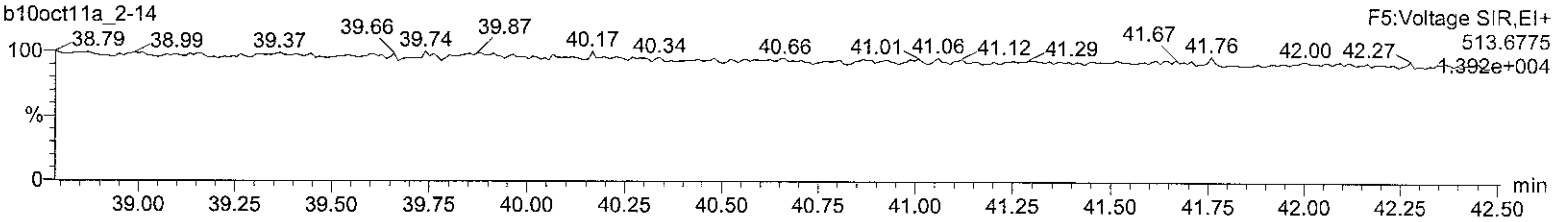
13C-OCDD



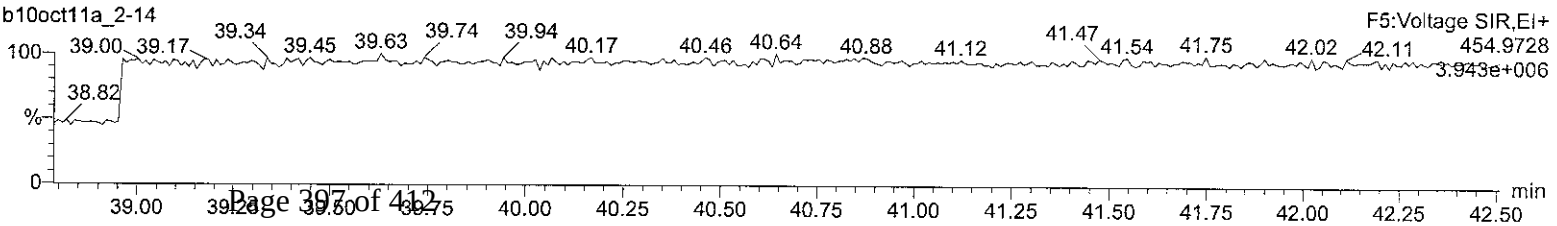
13C-OCDD



DeDPE



Lock Mass F5



Quantify Sample Summary Report **MassLynx 4.1**
Method 1613 CCAL Report

Dataset: C:\MassLynx\Default.pro\CCAL Results\1613-b10oct11a_2-14.qld

Last Altered: Tuesday, October 11, 2011 13:35:04 Eastern Standard Time
Printed: Tuesday, October 11, 2011 13:36:05 Eastern Standard Time

Method: C:\MassLynx\Default.pro\Methdb\CFA_1613_101011.mdb 11 Oct 2011 11:01:29
Calibration: C:\MassLynx\Default.pro\Curvedb\1613-b01nov10b.cdb 02 Nov 2010 10:40:09

Name: b10oct11a_2-14, Date: 11-Oct-2011, Time: 10:17:20, ID: CS3WT UD110629-01.1, Description: , Job: b10oct11a_2, Task: HRP763_1, User: MJC

	Name	Ion1Area	Ion2Area	Response	RT	RRT	RA	Fail?	pg/uL	EDL	RRF	ICRRF	%D	Height1	Noise1	S/N1	Height2	Noise2	S/N2	M
1	2378-TCDD	2.88e4	3.52e4	6.40e4	26.56	1.001	0.82	NO	10.834	0.215	1.097	1.013	8.3	2.67e5	3448	77.6	3.54e5	1460	242.5	db
2	12378-PeCDD	1.59e5	1.01e5	2.59e5	32.06	1.000	1.57	NO	50.919	0.114	1.051	1.032	1.8	3.37e6	2563	1315.8	2.14e6	2140	1000.0	bb
3	123478-HxCDD	1.46e5	1.19e5	2.65e5	34.21	1.000	1.22	NO	51.211	0.204	1.067	1.042	2.4	3.09e6	4202	735.5	2.55e6	5095	500.8	bd
4	123678-HxCDD	1.66e5	1.32e5	2.98e5	34.27	1.000	1.25	NO	52.045	0.206	1.007	0.968	4.1	3.21e6	4202	764.6	2.62e6	5095	513.8	dd
5	123789-HxCDD	1.55e5	1.24e5	2.79e5	34.45	1.005	1.25	NO	55.154	0.221	1.026	0.930	10.3	2.97e6	4202	706.9	2.40e6	5095	471.1	db
6	1234678-HpCDD	1.29e5	1.25e5	2.53e5	36.78	1.000	1.03	NO	51.392	0.202	1.032	1.004	2.8	2.03e6	3172	638.9	1.92e6	2950	650.8	bb
7	OCDD	2.22e5	2.51e5	4.73e5	39.87	1.000	0.88	NO	109.694	0.216	1.092	0.996	9.7	2.53e6	2253	1124.8	2.83e6	2043	1385.2	bd
8	2378-TCDF	4.00e4	4.95e4	8.94e4	25.66	1.001	0.81	NO	9.165	0.114	0.901	0.983	-8.3	4.01e5	1557	257.6	5.05e5	2657	190.0	bb
9	12378-PeCDF	2.29e5	1.52e5	3.81e5	31.03	1.001	1.51	NO	50.101	0.179	0.936	0.934	0.2	2.93e6	3869	758.2	1.95e6	2900	671.1	bb
10	23478-PeCDF	2.38e5	1.56e5	3.95e5	31.86	1.000	1.53	NO	49.546	0.110	0.971	0.980	-0.9	4.67e6	3869	1206.1	3.08e6	2900	1063.5	bb
11	123478-HxCDF	1.98e5	1.61e5	3.59e5	33.62	1.000	1.23	NO	50.033	0.237	1.124	1.123	0.1	4.35e6	7649	569.2	3.57e6	7228	493.5	bd
12	123678-HxCDF	2.39e5	1.97e5	4.35e5	33.69	1.000	1.21	NO	51.372	0.239	1.087	1.058	2.7	4.45e6	7649	581.4	3.61e6	7228	498.9	db
13	234678-HxCDF	2.18e5	1.78e5	3.97e5	34.10	1.000	1.22	NO	50.913	0.233	1.128	1.107	1.8	4.49e6	7649	587.5	3.53e6	7228	488.5	bb
14	123789-HxCDF	1.94e5	1.53e5	3.48e5	34.67	1.000	1.27	NO	49.936	0.296	1.040	1.042	-0.1	3.57e6	7649	467.3	2.77e6	7228	383.1	bb
15	1234678-HpCDF	1.95e5	1.89e5	3.84e5	35.83	1.000	1.03	NO	50.591	0.146	1.292	1.277	1.2	3.30e6	4301	767.5	3.27e6	3166	1032.1	bb
16	1234789-HpCDF	1.56e5	1.54e5	3.10e5	37.24	1.000	1.01	NO	52.249	0.215	1.285	1.230	4.5	2.25e6	4301	523.9	2.23e6	3166	705.2	bb
17	OCDF	2.63e5	2.87e5	5.51e5	40.07	1.005	0.92	NO	103.061	0.173	1.271	1.233	3.1	3.01e6	2043	1473.2	3.27e6	2226	1469.1	bd
18	13C-2378-TCDD	2.59e5	3.25e5	5.84e5	26.54	1.027	0.80	NO	91.022	0.172	1.019	1.120	-9.0	2.50e6	2727	917.7	3.17e6	1675	1892.5	bb
19	13C-12378-PeCDD	3.01e5	1.93e5	4.94e5	32.05	1.240	1.56	NO	90.736	0.166	0.862	0.950	-9.3	6.10e6	1703	3580.7	4.02e6	1885	2132.2	bb
20	13C-123478-HxCDD	2.77e5	2.20e5	4.97e5	34.20	0.993	1.26	NO	94.203	0.170	0.901	0.957	-5.8	6.09e6	2960	2056.5	4.70e6	3751	1253.5	bd
21	13C-123678-HxCDD	3.29e5	2.64e5	5.93e5	34.27	0.995	1.25	NO	96.704	0.146	1.075	1.112	-3.3	6.48e6	2960	2189.8	5.23e6	3751	1393.5	dd
22	13C-1234678-HpCDD	2.54e5	2.37e5	4.91e5	36.77	1.068	1.07	NO	111.319	0.173	0.891	0.801	11.3	3.92e6	3023	1295.2	3.75e6	2699	1388.1	bd
23	13C-OCDD	4.14e5	4.53e5	8.67e5	39.87	1.158	0.91	NO	235.313	0.195	0.786	0.668	17.7	4.78e6	3084	1549.6	5.30e6	2298	2306.9	bb
24	13C-2378-TCDF	4.38e5	5.55e5	9.92e5	25.65	0.992	0.79	NO	95.161	0.109	1.733	1.821	-4.8	4.14e6	1835	2258.9	5.36e6	2683	1998.5	bb
25	13C-12378-PeCDF	4.99e5	3.15e5	8.14e5	31.01	1.200	1.58	NO	83.999	0.201	1.422	1.692	-16.0	6.22e6	4547	1367.9	3.98e6	3232	1232.5	bd
26	13C-23478-PeCDF	4.94e5	3.19e5	8.13e5	31.85	1.233	1.55	NO	89.872	0.216	1.419	1.579	-10.1	9.57e6	4547	2105.1	6.04e6	3232	1869.8	bb
27	13C-123478-HxCDF	2.18e5	4.20e5	6.38e5	33.61	0.976	0.52	NO	87.778	0.198	1.158	1.319	-12.2	4.78e6	4185	1141.5	9.14e6	6581	1389.0	bd
28	13C-123678-HxCDF	2.79e5	5.22e5	8.01e5	33.68	0.978	0.54	NO	89.159	0.160	1.454	1.631	-10.8	5.13e6	4185	1225.3	9.98e6	6581	1517.2	dd
29	13C-234678-HxCDF	2.43e5	4.60e5	7.03e5	34.09	0.990	0.53	NO	90.742	0.186	1.276	1.406	-9.3	4.97e6	4185	1188.5	9.68e6	6581	1471.4	bb
30	13C-123789-HxCDF	2.29e5	4.39e5	6.68e5	34.66	1.006	0.52	NO	97.810	0.211	1.212	1.239	-2.2	4.13e6	4185	986.3	8.07e6	6581	1225.5	bb

Quantify Sample Summary Report **MassLynx 4.1**
Method 1613 CCAL Report

Dataset: C:\MassLynx\Default.pro\CCAL Results\1613-b10oct11a_2-14.qld

Last Altered: Tuesday, October 11, 2011 13:35:04 Eastern Standard Time
Printed: Tuesday, October 11, 2011 13:36:05 Eastern Standard Time

Name: b10oct11a_2-14, Date: 11-Oct-2011, Time: 10:17:20, ID: CS3WT UD110629-01.1, Description: , Job: b10oct11a_2, Task: HRP763_1, User: MJC

	Name	Ion1Area	Ion2Area	Response	RT	RRT	RA	Fail?	pg/uL	EDL	RRF	ICRRF	%D	Height1	Noise1	S/N1	Height2	Noise2	S/N2	M
31	13C-1234678-HpCDF	1.84e5	4.11e5	5.94e5	35.82	1.040	0.45	NO	99.795	0.150	1.079	1.081	-0.2	3.10e6	3058	1013.2	7.04e6	3603	1953.8	bb
32	13C-1234789-HpCDF	1.50e5	3.32e5	4.83e5	37.23	1.081	0.45	NO	107.135	0.198	0.876	0.817	7.1	2.20e6	3058	718.4	4.77e6	3603	1323.0	bb
33	13C-1234-TCDD	2.55e5	3.18e5	5.73e5	25.84	0.000	0.80	NO	100.000	0.193	1.000	1.000	0.0	2.54e6	2727	930.4	3.16e6	1675	1888.5	bb
34	13C-123789-HxCDD	3.07e5	2.44e5	5.51e5	34.44	0.000	1.26	NO	100.000	0.163	1.000	1.000	-0.0	5.74e6	2960	1938.6	4.68e6	3751	1246.6	db
35	37Cl-2378-TCDD	6.57e4		6.57e4	26.58	1.028			9.730	0.0400	1.147	1.179	-2.7	6.42e5	1077	596.3				bb

Quantify Sample Report **MassLynx 4.1**
Method 1613 CCAL Report

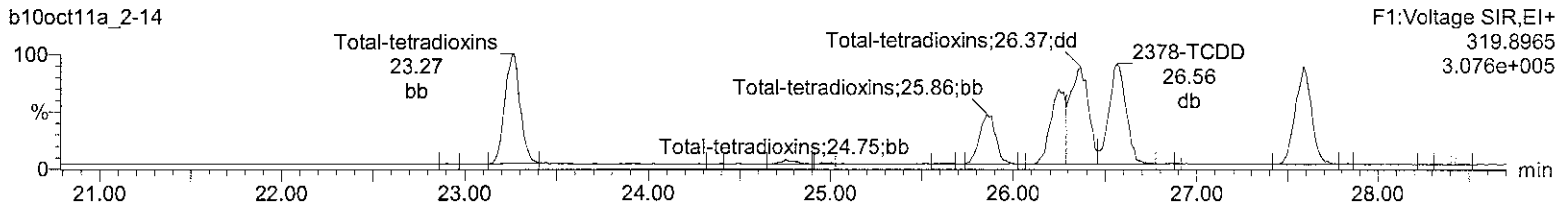
Dataset: C:\MassLynx\Default.pro\CCAL Results\1613-b10oct11a_2-14.qld

Last Altered: Tuesday, October 11, 2011 13:35:04 Eastern Standard Time
Printed: Tuesday, October 11, 2011 13:36:05 Eastern Standard Time

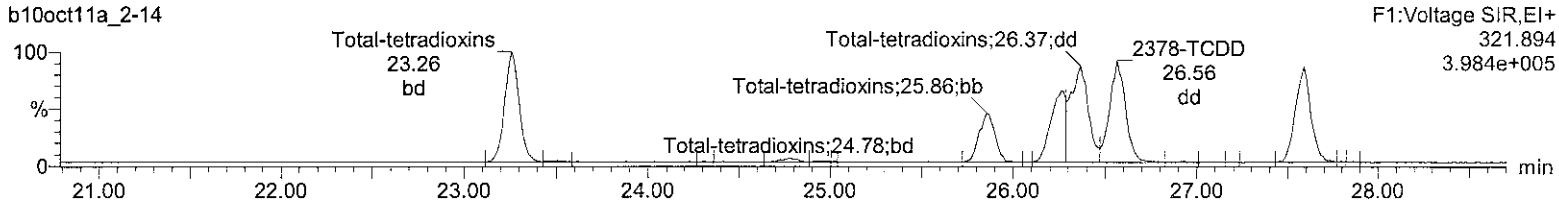
Method: C:\MassLynx\Default.pro\Methdb\CFA_1613_101011.mdb 11 Oct 2011 11:01:29
Calibration: C:\MassLynx\Default.pro\Curvedb\1613-b01nov10b.cdb 02 Nov 2010 10:40:09

Name: b10oct11a_2-14, Date: 11-Oct-2011, Time: 10:17:20, ID: CS3WT UD110629-01.1, Description: , Job: b10oct11a_2, Task: HRP763_1, User: MJC

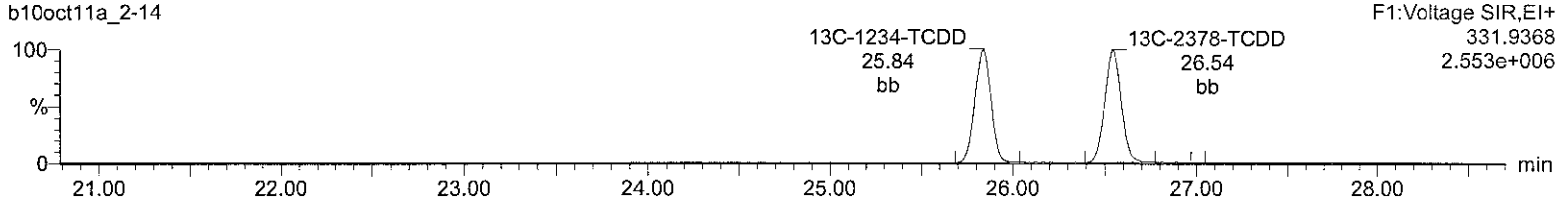
Total-tetradioxins



Total-tetradioxins



13C-2378-TCDD



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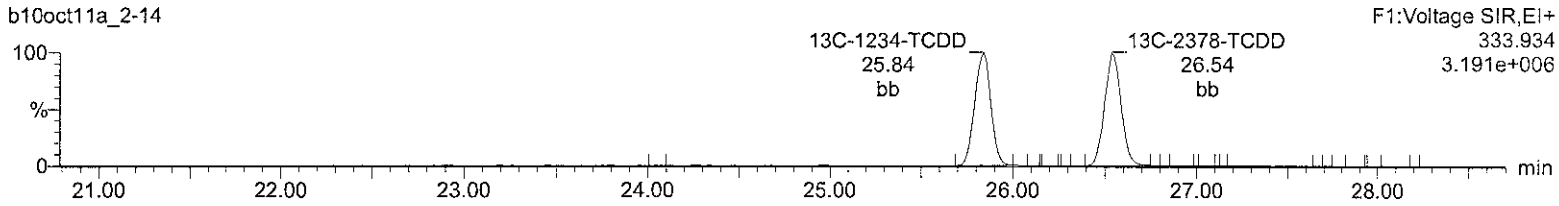

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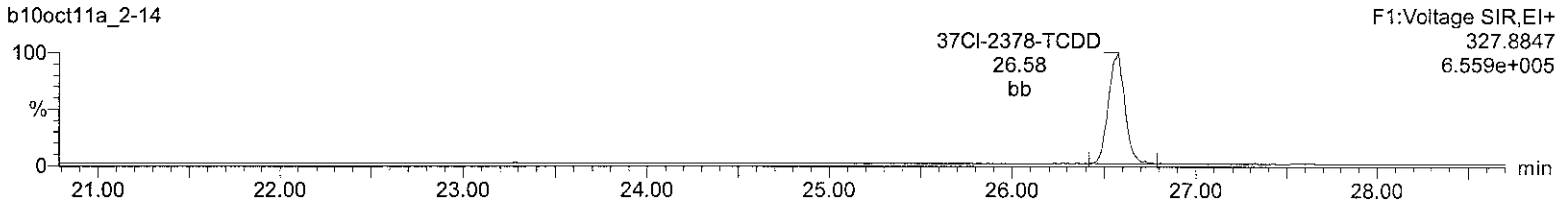
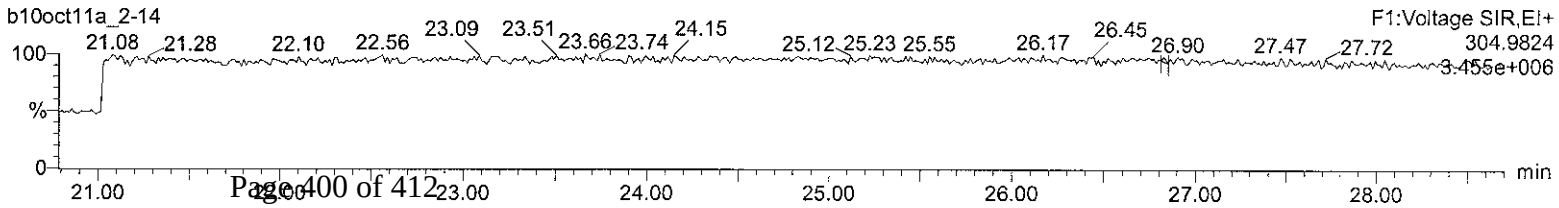


Lock Mass F1



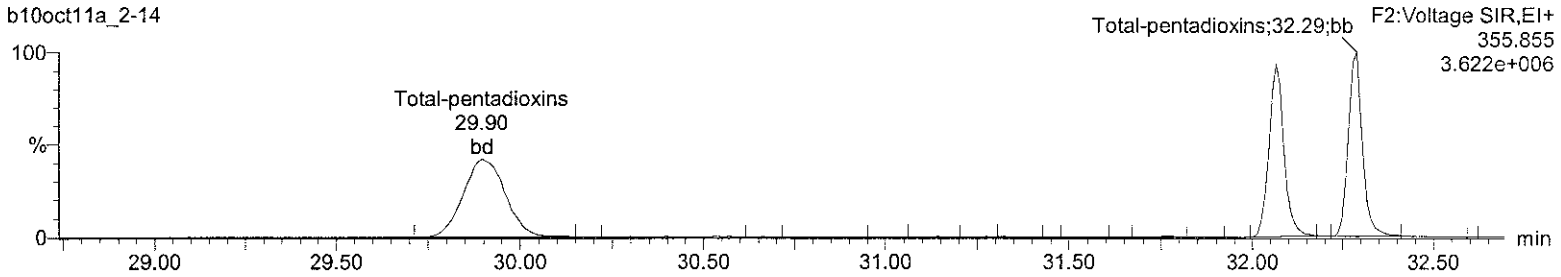
Quantify Sample Report **MassLynx 4.1**
Method 1613 CCAL Report

Dataset: C:\MassLynx\Default.pro\CCAL Results\1613-b10oct11a_2-14.qld

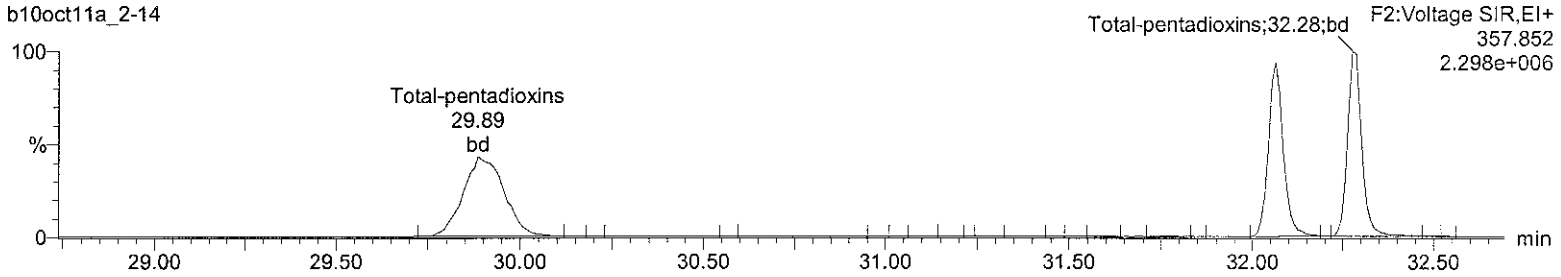
Last Altered: Tuesday, October 11, 2011 13:35:04 Eastern Standard Time
Printed: Tuesday, October 11, 2011 13:36:05 Eastern Standard Time

Name: b10oct11a_2-14, Date: 11-Oct-2011, Time: 10:17:20, ID: CS3WT UD110629-01.1, Description: , Job: b10oct11a_2, Task: HRP763_1, User: MJC

Total-pentadioxins



Total-pentadioxins



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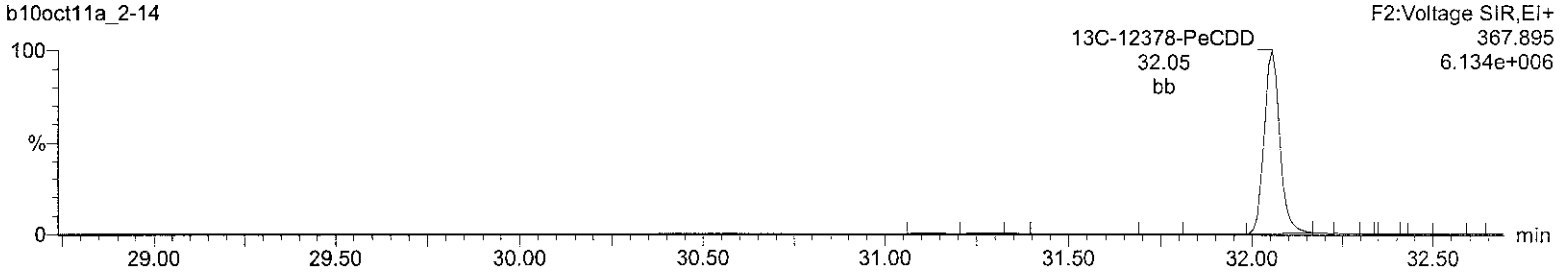

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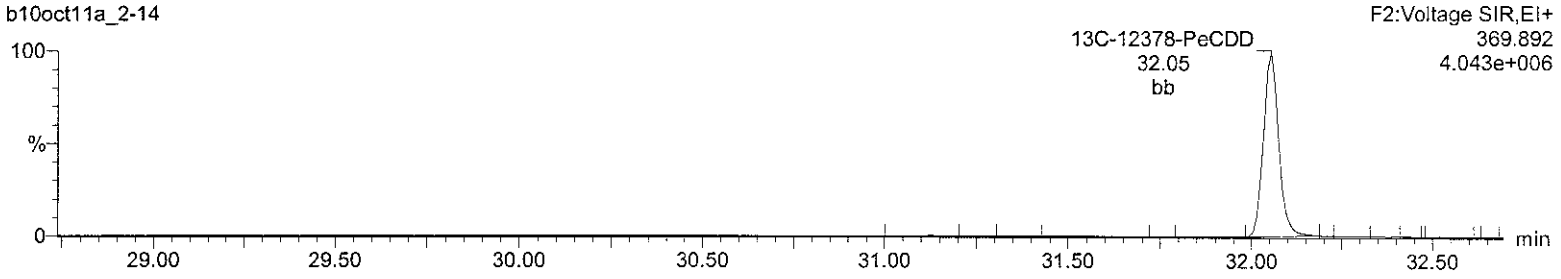

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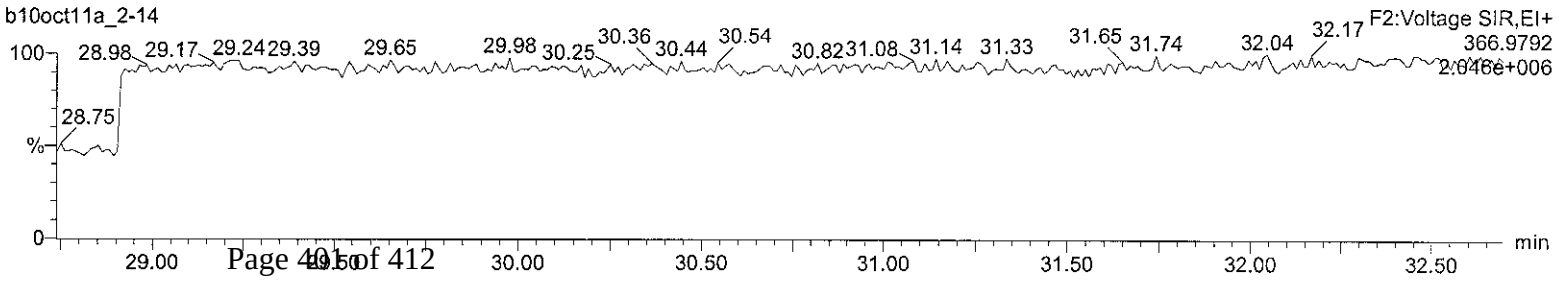


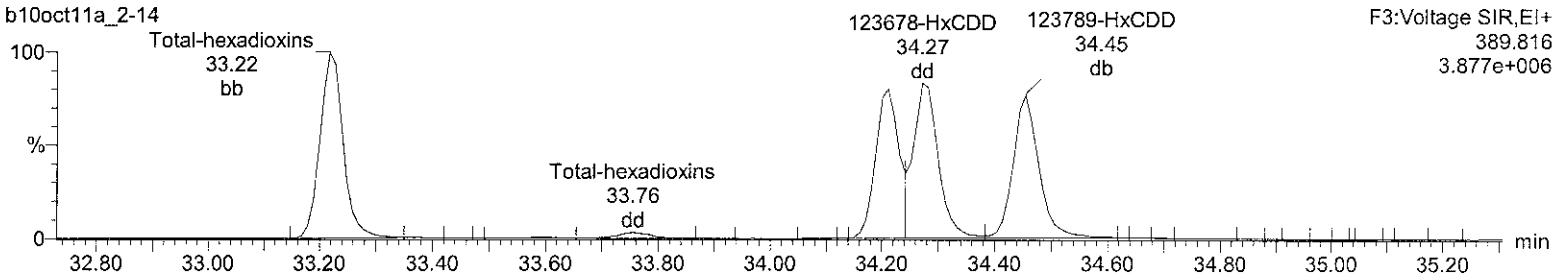
Quantify Sample Report **MassLynx 4.1**
Method 1613 CCAL Report

Dataset: C:\MassLynx\Default.pro\CCAL Results\1613-b10oct11a_2-14.qld

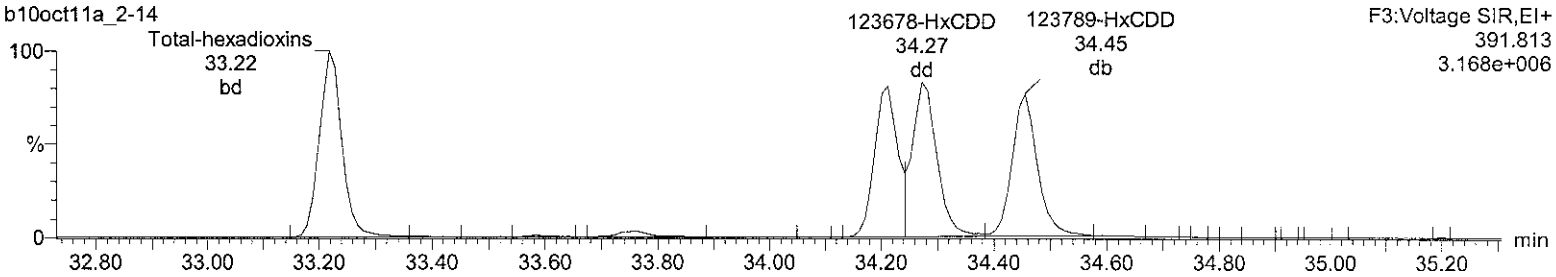
Last Altered: Tuesday, October 11, 2011 13:35:04 Eastern Standard Time
Printed: Tuesday, October 11, 2011 13:36:05 Eastern Standard Time

Name: b10oct11a_2-14, Date: 11-Oct-2011, Time: 10:17:20, ID: CS3WT UD110629-01.1, Description: , Job: b10oct11a_2, Task: HRP763_1, User: MJC

Total-hexadioxins



Total-hexadioxins



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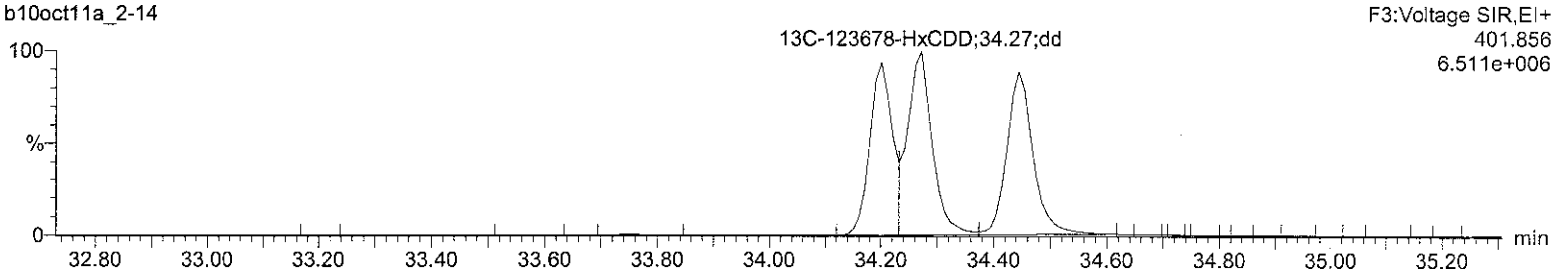

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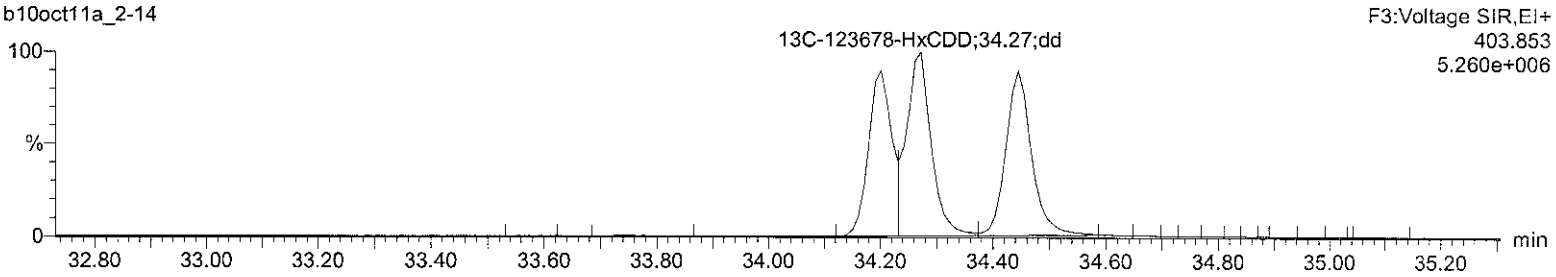

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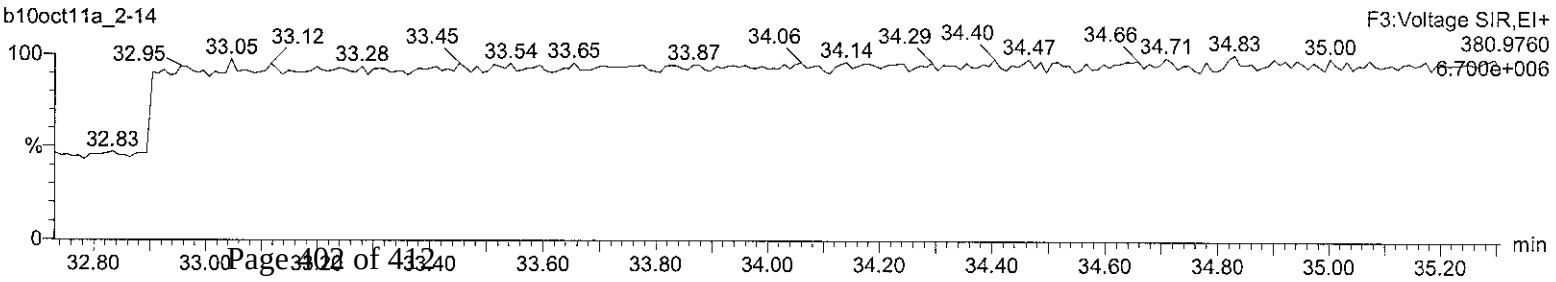


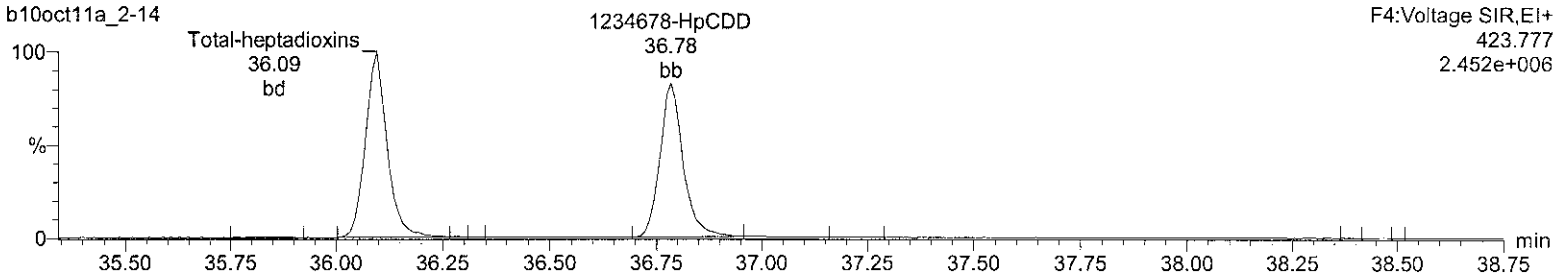
Quantify Sample Report **MassLynx 4.1**
Method 1613 CCAL Report

Dataset: C:\MassLynx\Default.pro\CCAL Results\1613-b10oct11a_2-14.qld

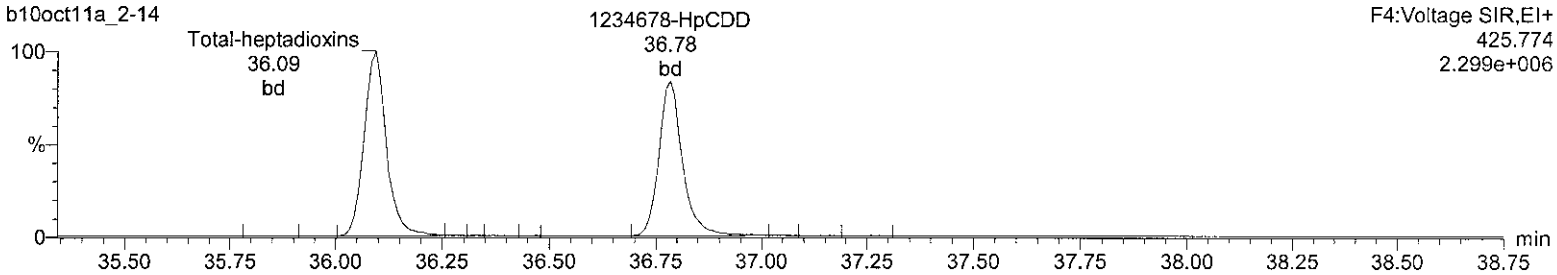
Last Altered: Tuesday, October 11, 2011 13:35:04 Eastern Standard Time
Printed: Tuesday, October 11, 2011 13:36:05 Eastern Standard Time

Name: b10oct11a_2-14, Date: 11-Oct-2011, Time: 10:17:20, ID: CS3WT UD110629-01.1, Description: , Job: b10oct11a_2, Task: HRP763_1, User: MJC

Total-heptadioxins



Total-heptadioxins



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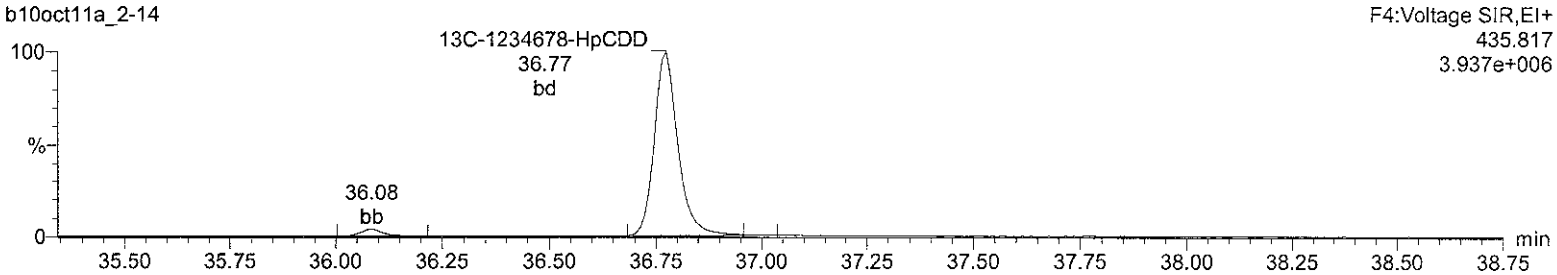

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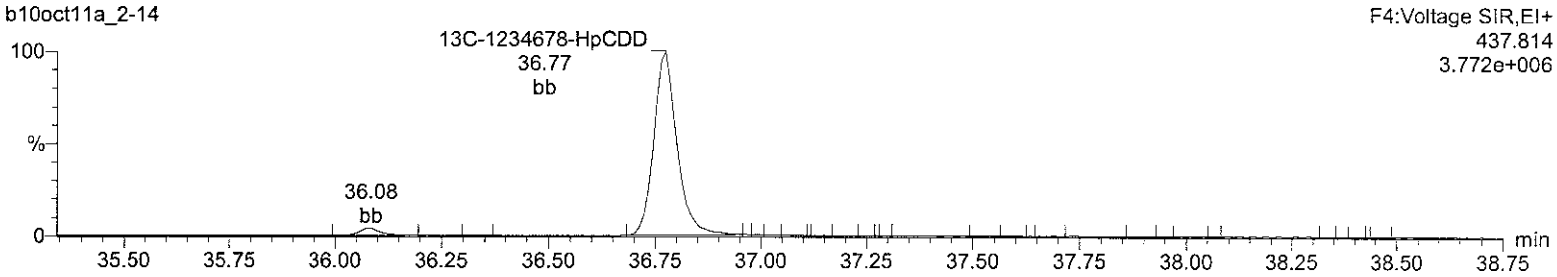
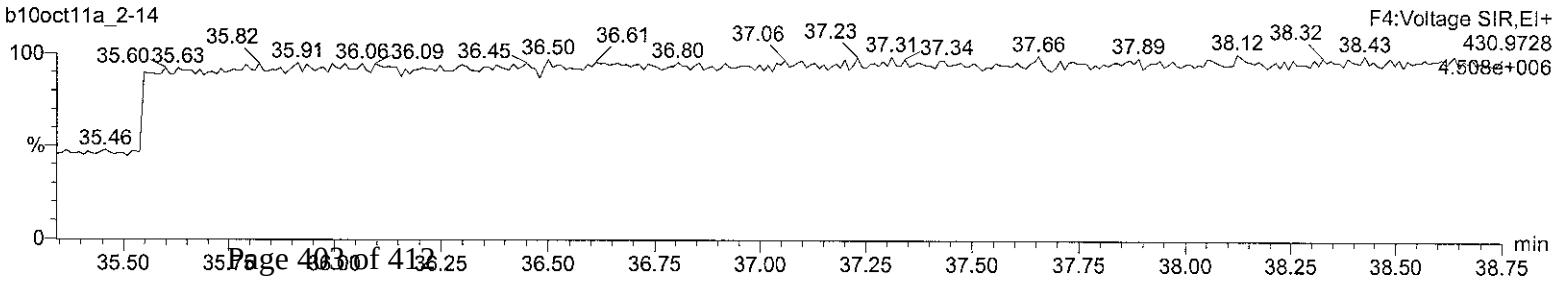


Lock Mass F4



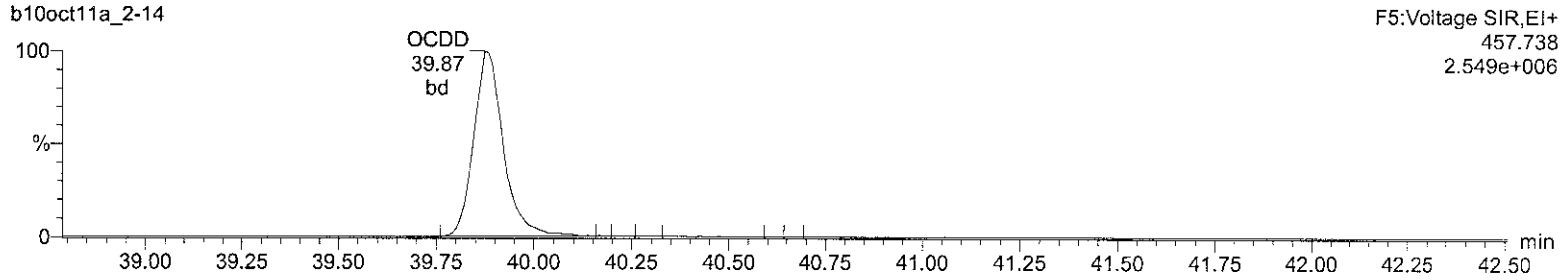
Quantify Sample Report **MassLynx 4.1**
Method 1613 CCAL Report

Dataset: C:\MassLynx\Default.pro\CCAL Results\1613-b10oct11a_2-14.qld

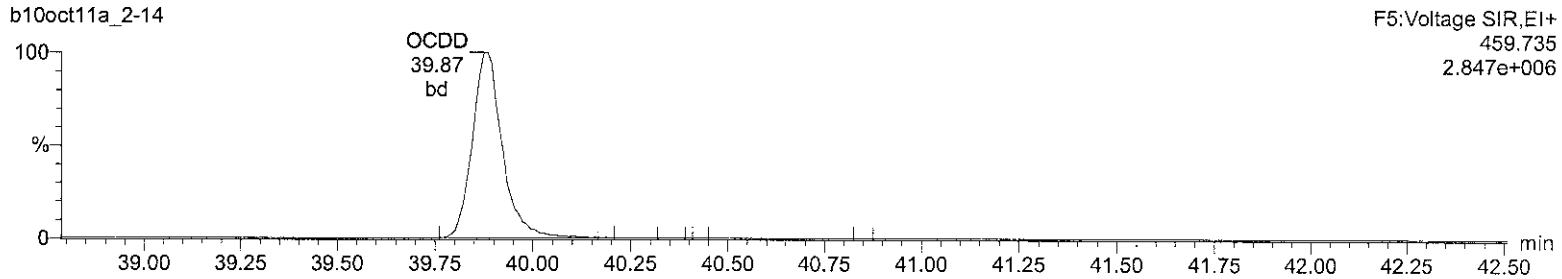
Last Altered: Tuesday, October 11, 2011 13:35:04 Eastern Standard Time
Printed: Tuesday, October 11, 2011 13:36:05 Eastern Standard Time

Name: b10oct11a_2-14, Date: 11-Oct-2011, Time: 10:17:20, ID: CS3WT UD110629-01.1, Description: , Job: b10oct11a_2, Task: HRP763_1, User: MJC

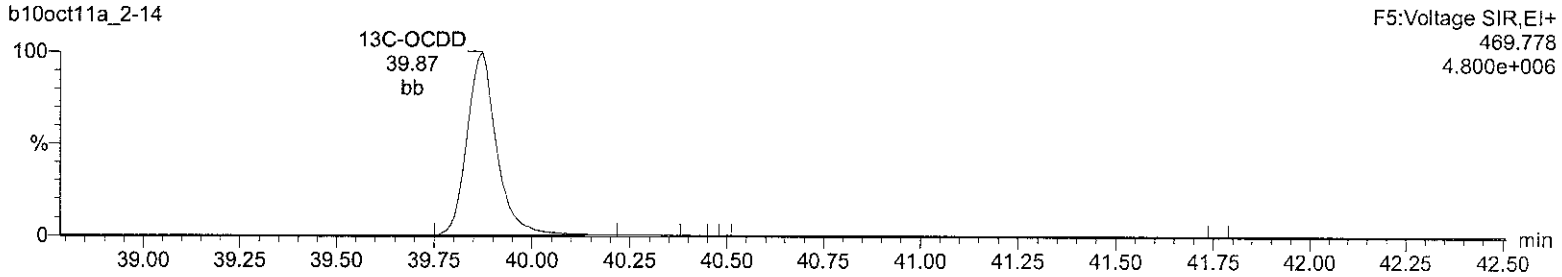
OCDD



OCDD



13C-OCDD



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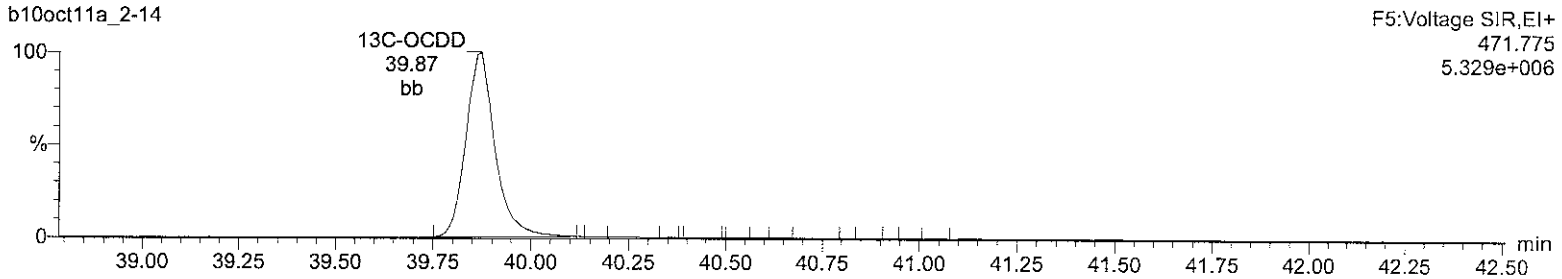
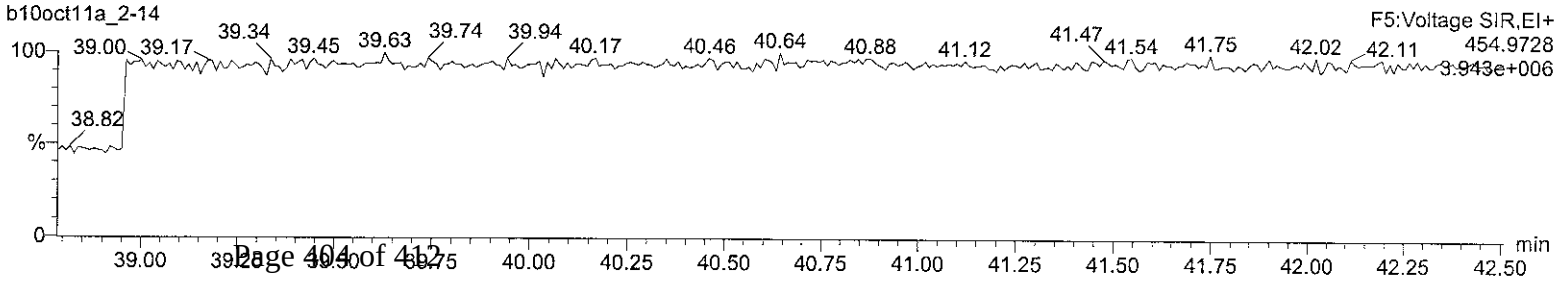


Lock Mass F5



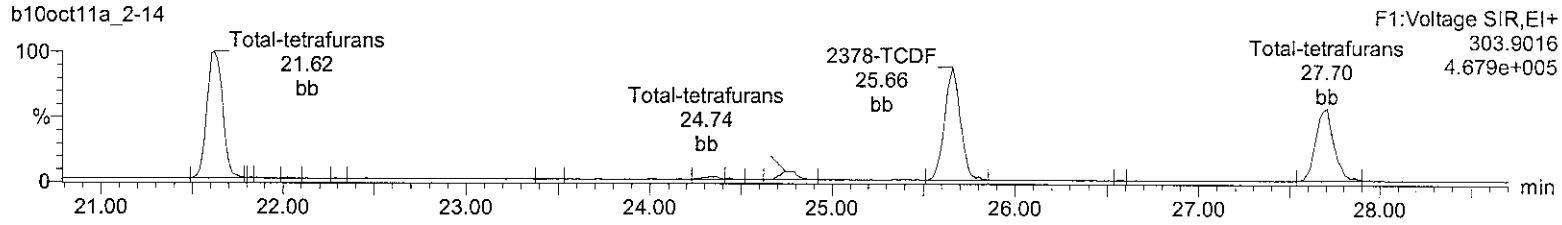
Quantify Sample Report **MassLynx 4.1**
Method 1613 CCAL Report

Dataset: C:\MassLynx\Default.pro\CCAL Results\1613-b10oct11a_2-14.qld

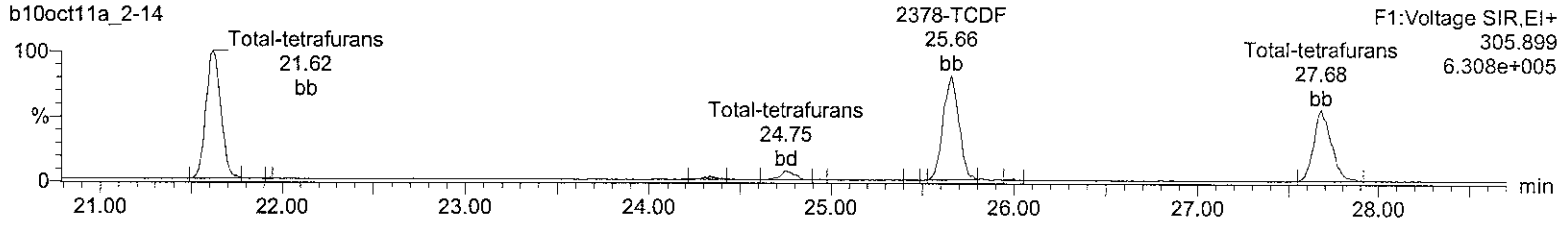
Last Altered: Tuesday, October 11, 2011 13:35:04 Eastern Standard Time
Printed: Tuesday, October 11, 2011 13:36:05 Eastern Standard Time

Name: b10oct11a_2-14, Date: 11-Oct-2011, Time: 10:17:20, ID: CS3WT UD110629-01.1, Description: , Job: b10oct11a_2, Task: HRP763_1, User: MJC

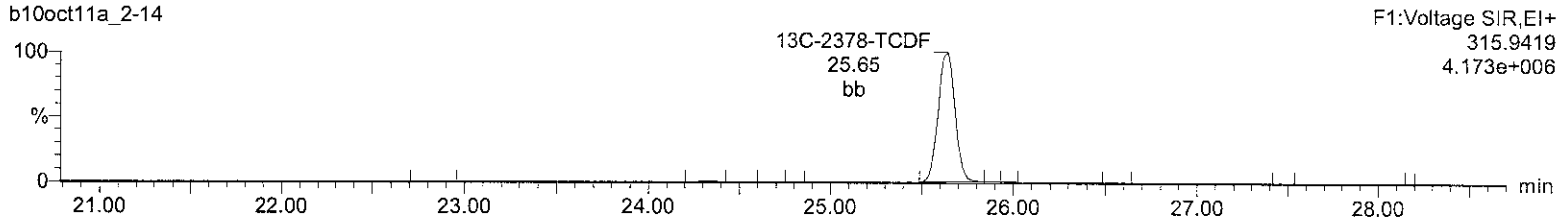
Total-tetrafurans



Total-tetrafurans



13C-2378-TCDF



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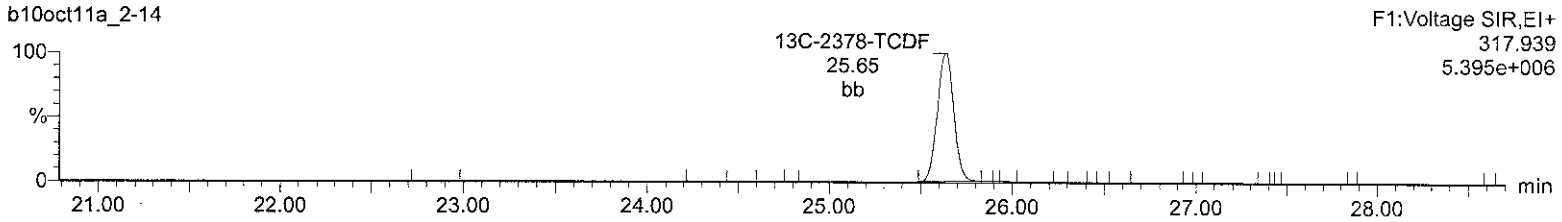

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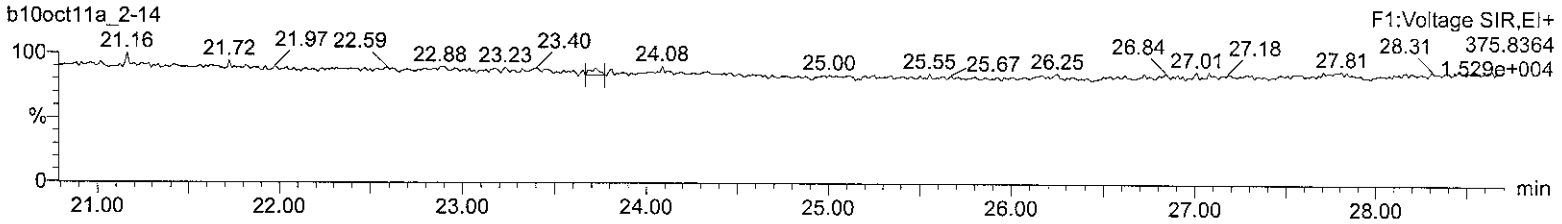
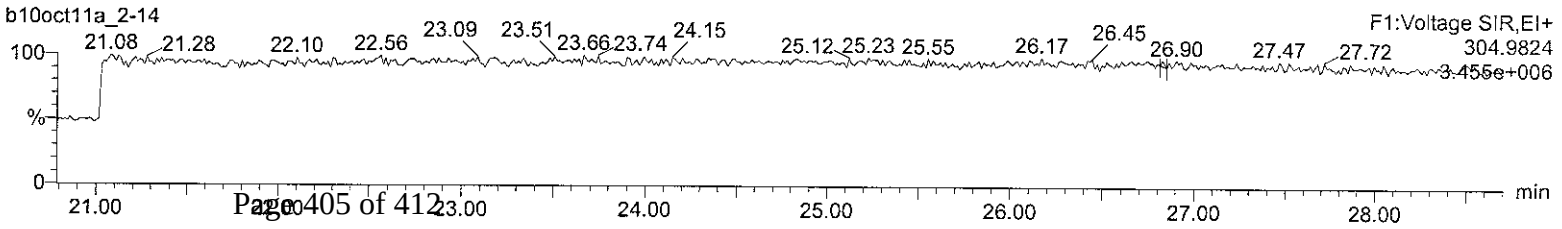


Lock Mass F1



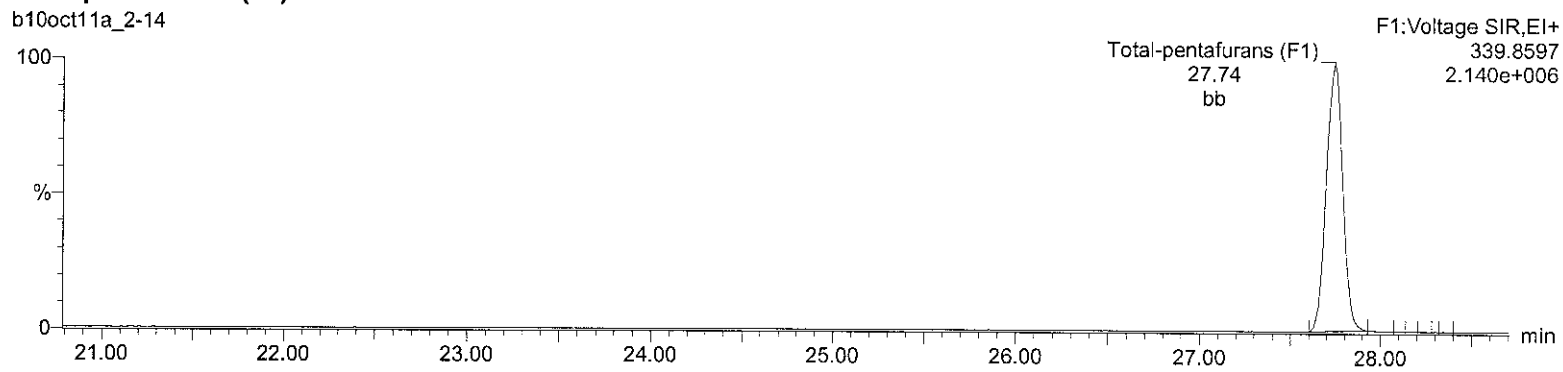
Quantify Sample Report **MassLynx 4.1**
Method 1613 CCAL Report

Dataset: C:\MassLynx\Default.pro\CCAL Results\1613-b10oct11a_2-14.qld

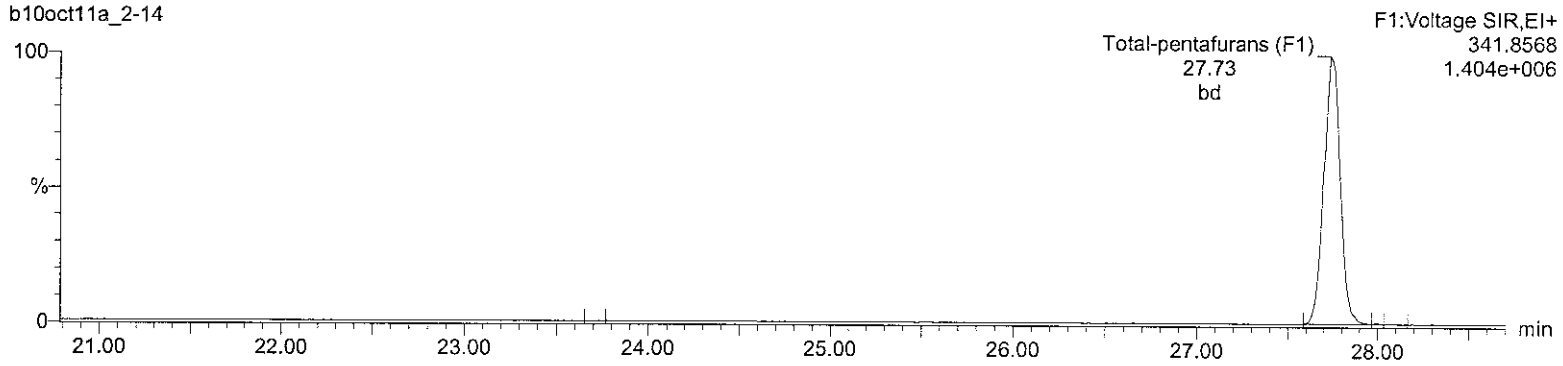
Last Altered: Tuesday, October 11, 2011 13:35:04 Eastern Standard Time
Printed: Tuesday, October 11, 2011 13:36:05 Eastern Standard Time

Name: b10oct11a_2-14, Date: 11-Oct-2011, Time: 10:17:20, ID: CS3WT UD110629-01.1, Description: , Job: b10oct11a_2, Task: HRP763_1, User: MJC

Total-pentafurans (F1)



Total-pentafurans (F1)



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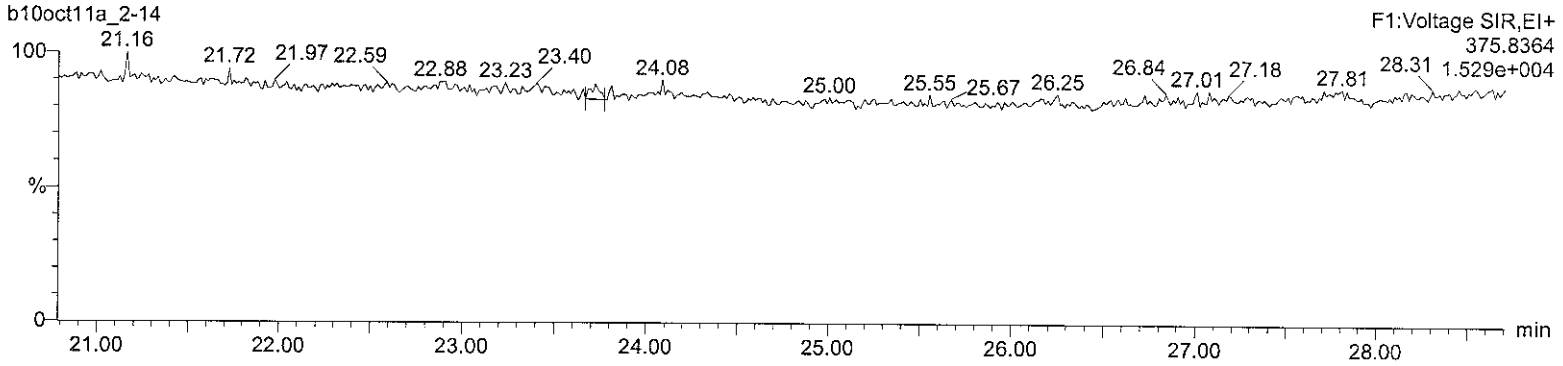

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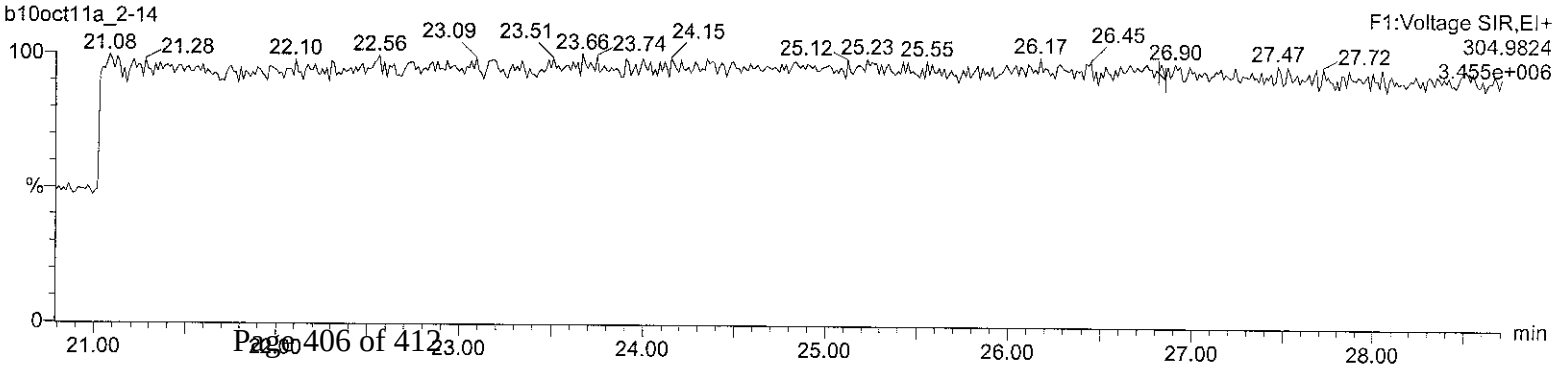

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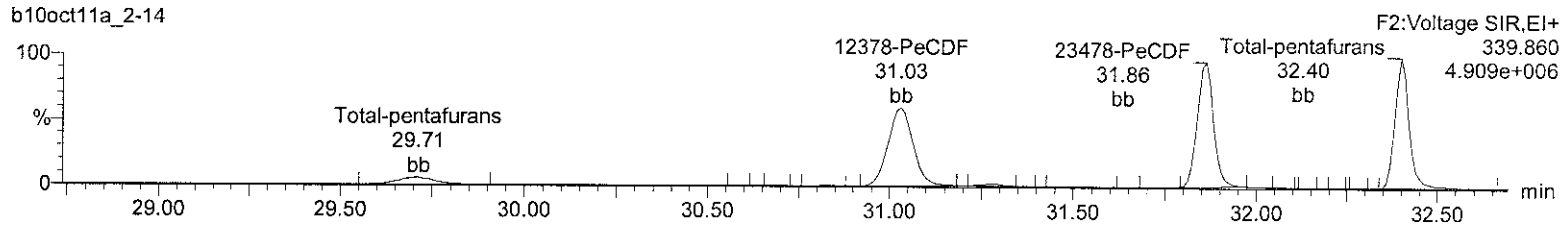
Name: b10oct11a_2-14, Date: 11-Oct-2011, Time: 10:17:20, ID: CS3WT UD110629-01.1, Description: , Job: b10oct11a_2, Task: HRP763_1, User: MJC

Total-pentafurans



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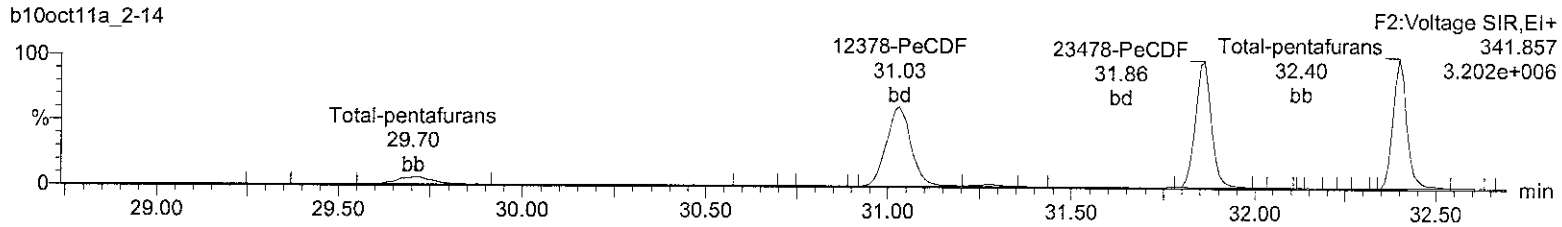

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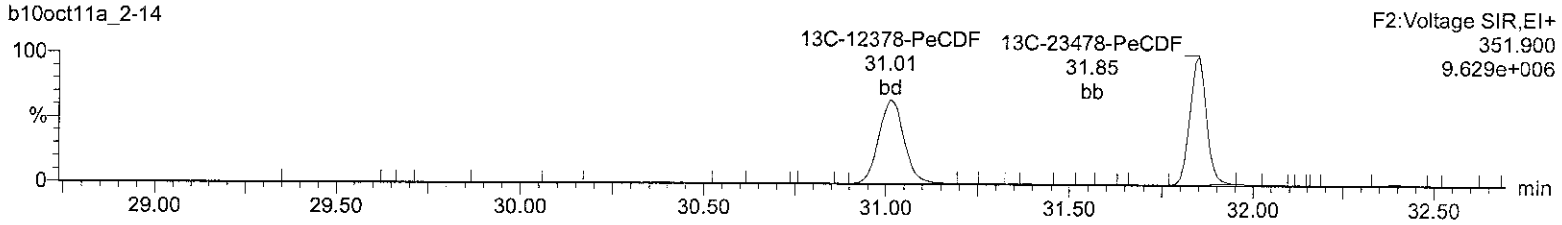

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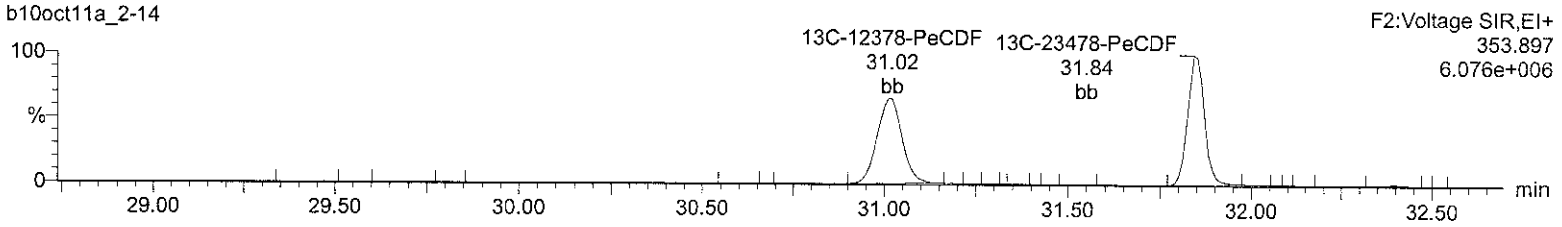

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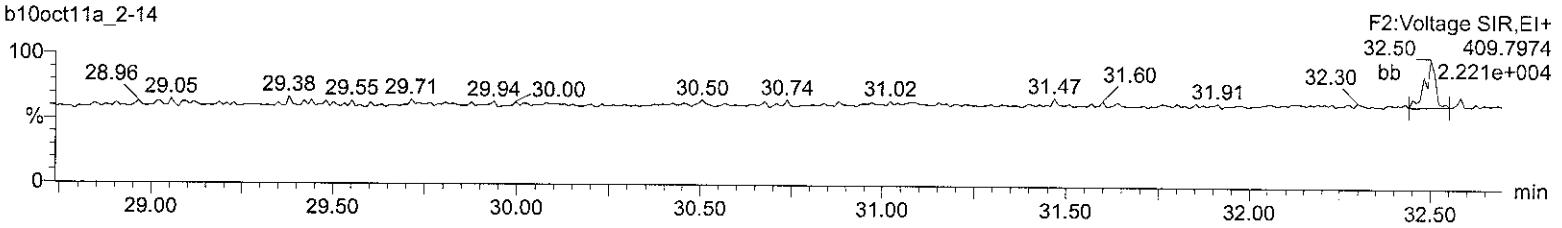

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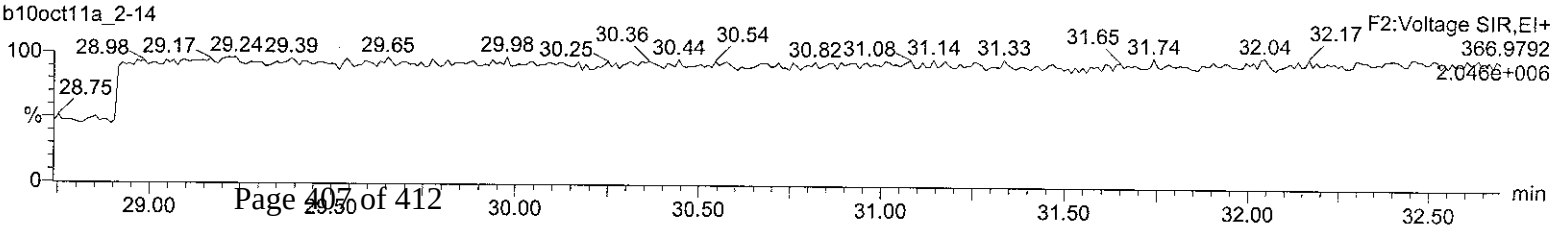

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Last Altered: Tuesday, October 11, 2011 13:35:04 Eastern Standard Time
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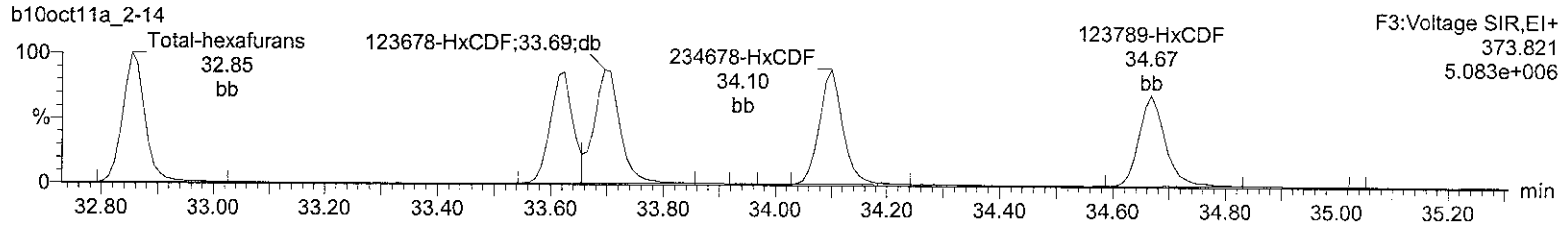
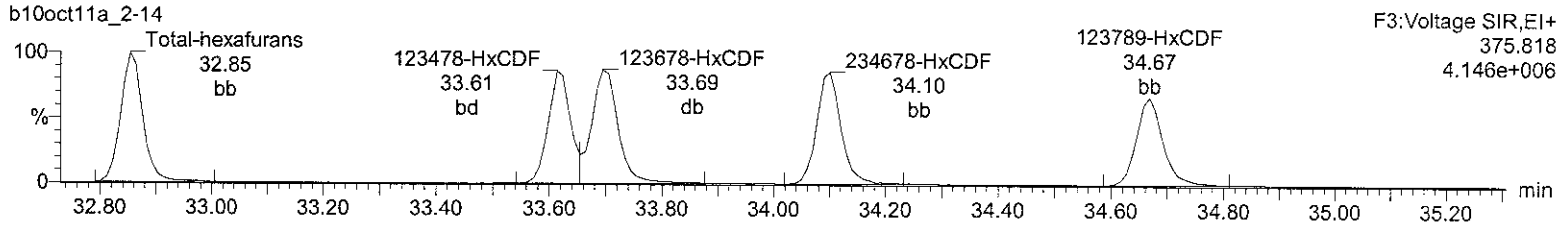
Name: b10oct11a_2-14, Date: 11-Oct-2011, Time: 10:17:20, ID: CS3WT UD110629-01.1, Description: , Job: b10oct11a_2, Task: HRP763_1, User: MJC

Total-hexafurans



Total-hexafurans



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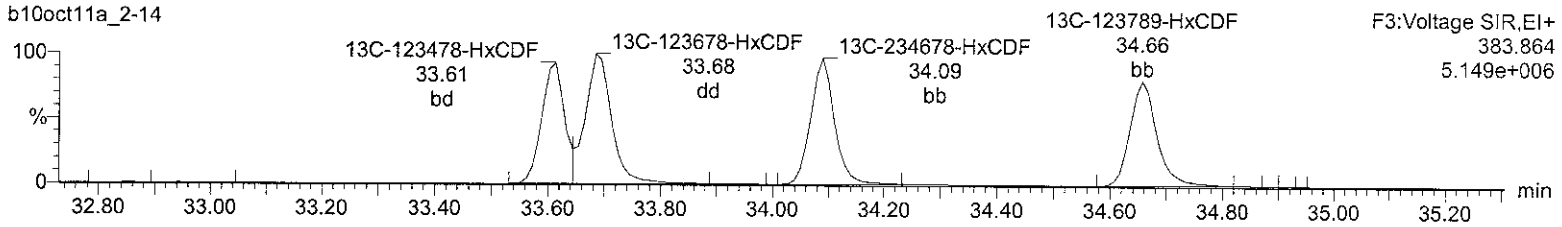

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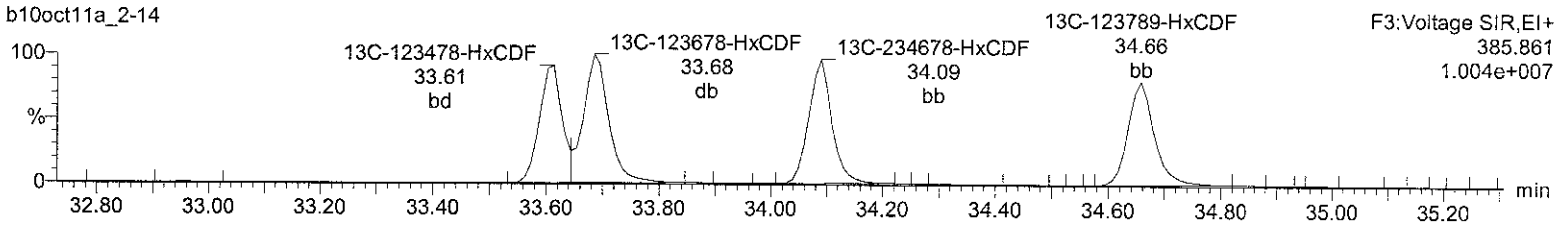

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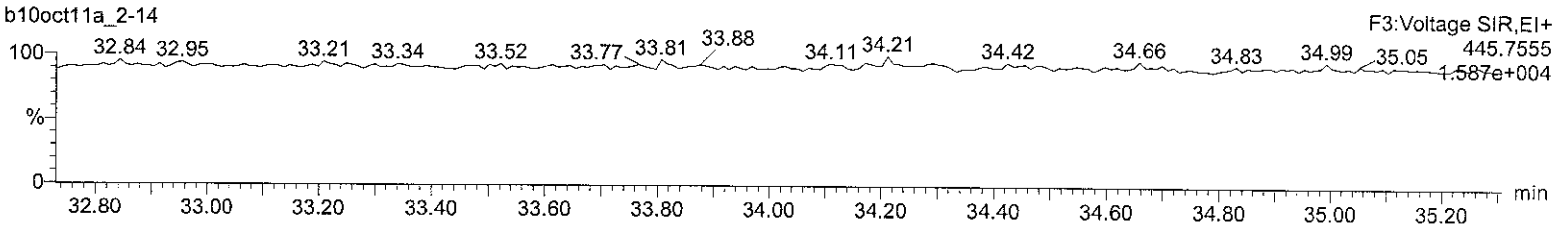
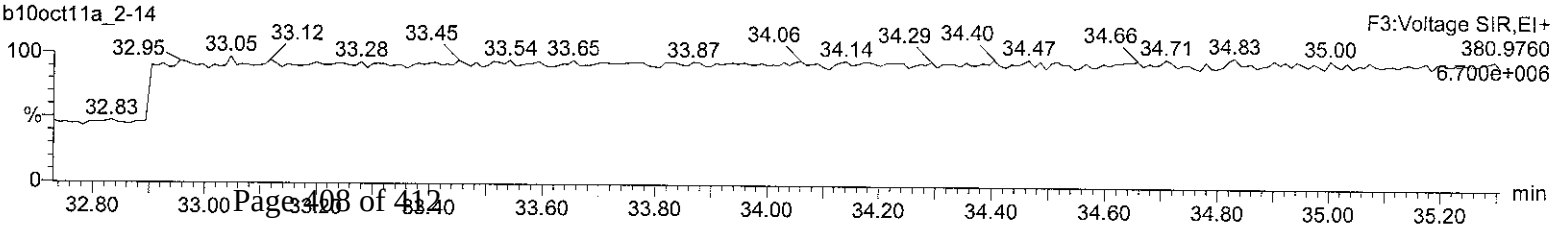


Lock Mass F3



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Method 1613 CCAL Report

Dataset: C:\MassLynx\Default.pro\CCAL Results\1613-b10oct11a_2-14.qld

Last Altered: Tuesday, October 11, 2011 13:35:04 Eastern Standard Time
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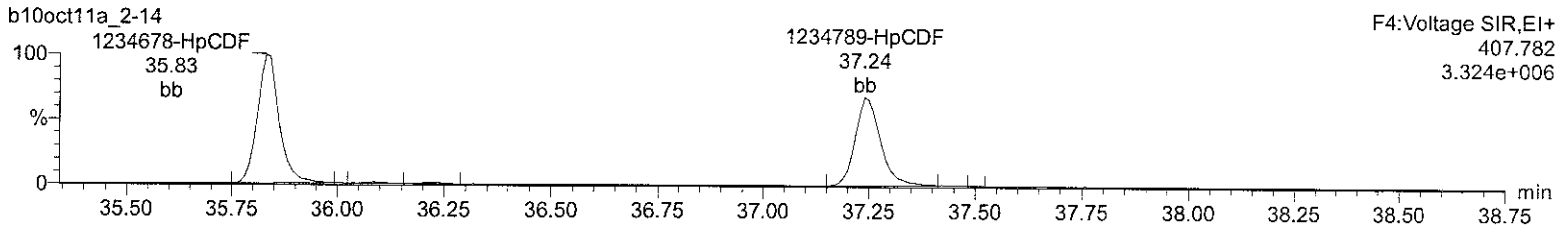
Name: b10oct11a_2-14, Date: 11-Oct-2011, Time: 10:17:20, ID: CS3WT UD110629-01.1, Description: , Job: b10oct11a_2, Task: HRP763_1, User: MJC

Total-heptafurans



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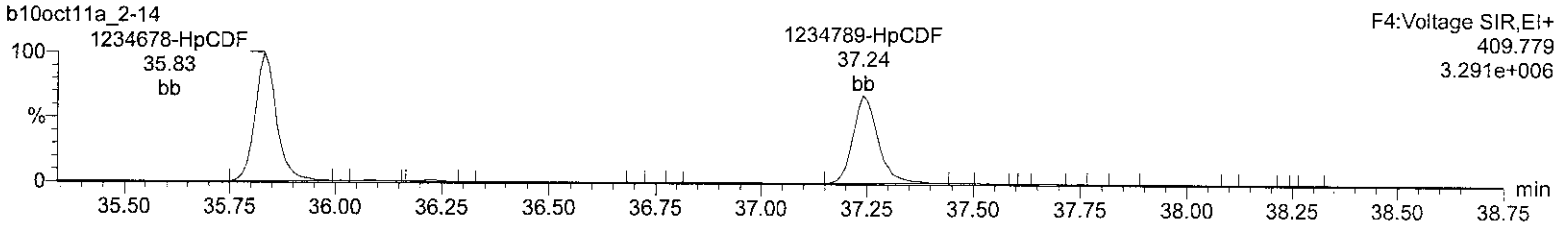

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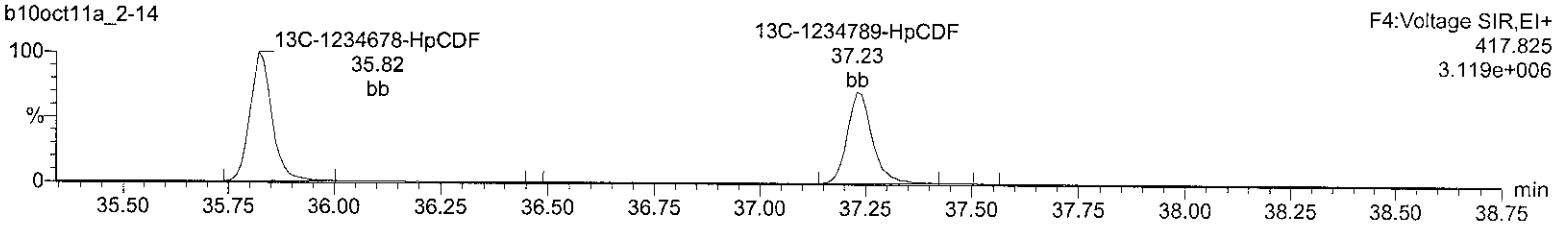

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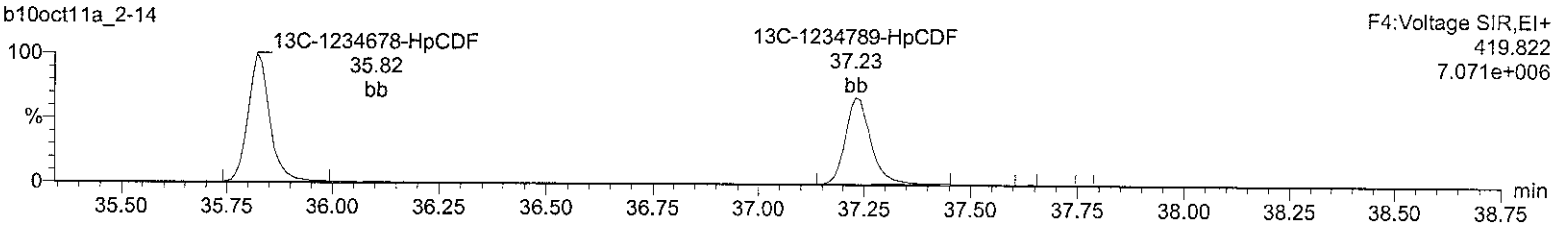

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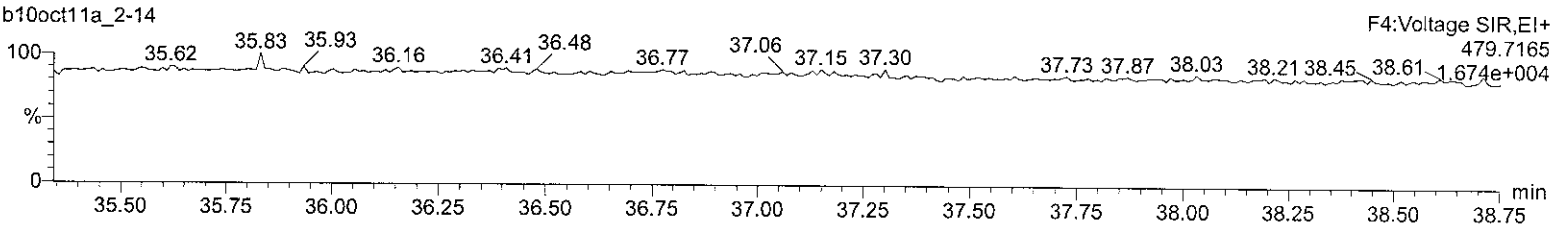

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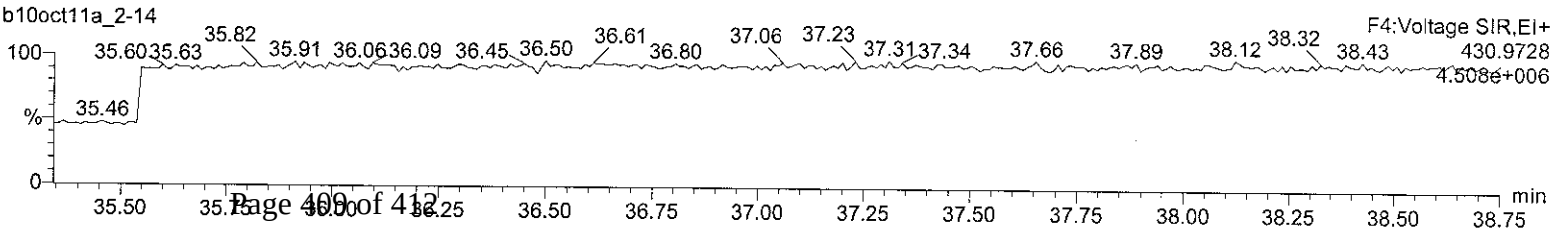

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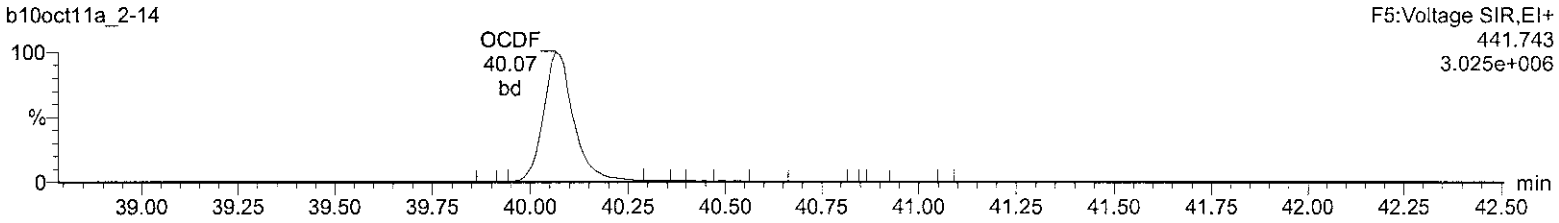
OCDF



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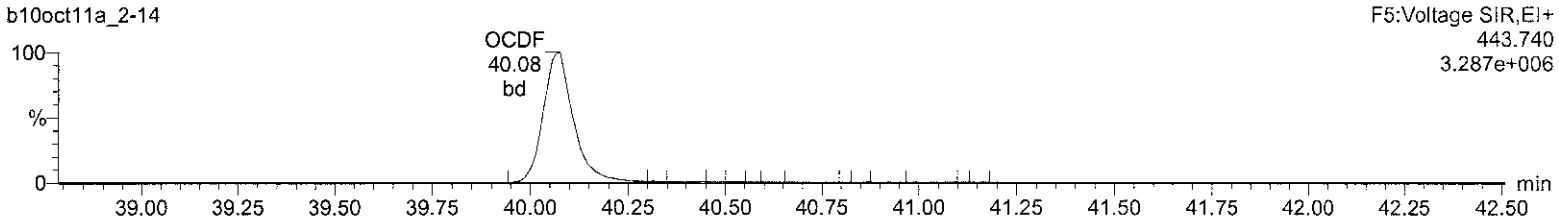

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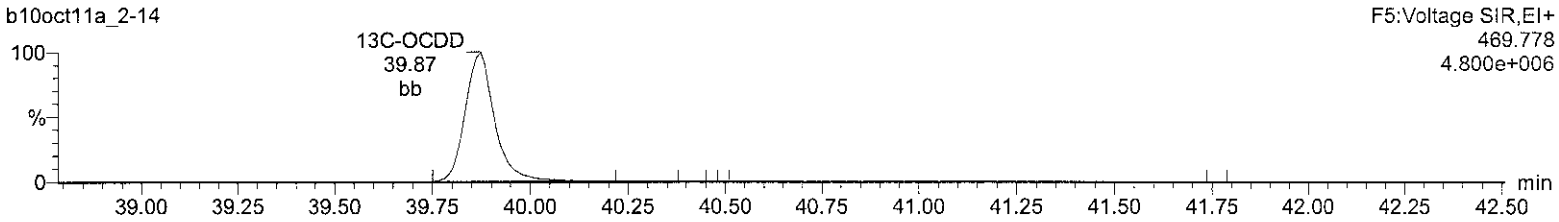

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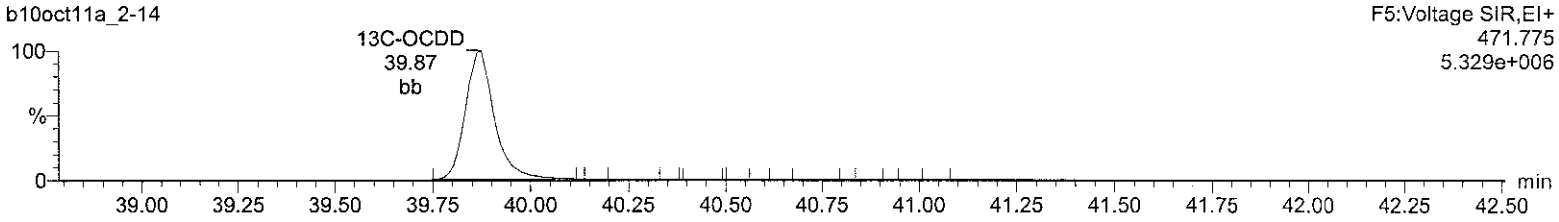

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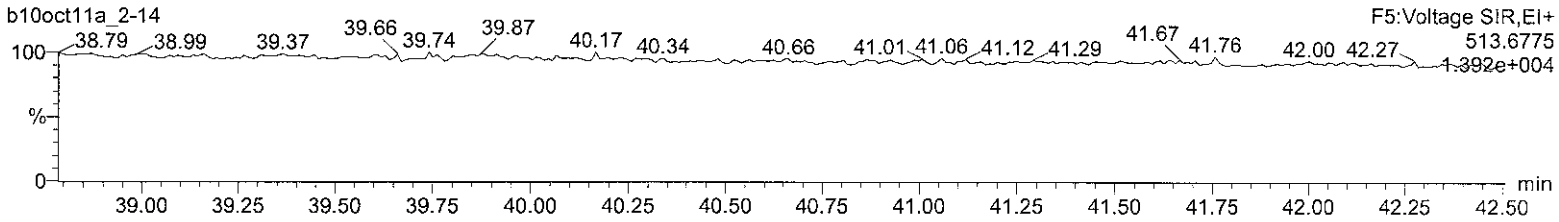
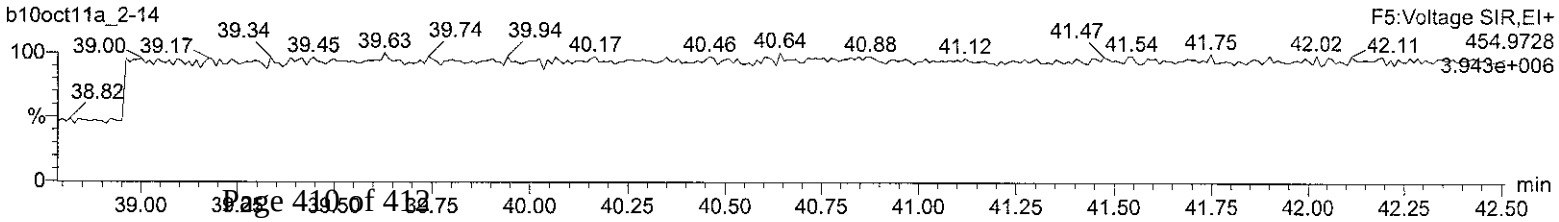


Lock Mass F5



Miscellaneous

COMPANY - WIDE NONCONFORMANCE REPORT

Mo. Day Yr.	Division:	Quality Criteria:	Type:
11-OCT-11	Federal	Specifications	Process
Instrument Type:	**Test / Method:**	**Matrix Type:**	**Client Code:**
High Res GC/MS	SW846 8290A	Solid	EMPI

Batch ID:	Sample Numbers:
19680	See Below

Potentially affected work order(s)(SDG): **2818(1109191),2822(1109192)**

Application Issues:

Failed Recovery for MS/PS

Failed Recovery for MSD/PSD

Specification and Requirements Nonconformance Description:	NRG Disposition:
1. Failed Recovery for MS/PS: QC 12004343MS 2. Failed Recovery for MSD/PSD: QC 12004344MSD	Narrate Only

Originator's Name:

Heather Patterson 11-OCT-2011 15:51

Data Validator/Group Leader:

Heather Patterson 11-OCT-2011 15:51

ANALYTICAL DATA PACKAGE
SDG # 1110003

PROJECT NAME: NAVY FUEL DEPOT CTO JM 46
PROJECT LOCATION: KEY WEST, FLORIDA
CONTRACT #: N62467-04-D-0055

SUBMITTAL TO:
Tobrena Sedlmeyer
Tetra Tech NUS, Inc.
Foster Plaza 7
661 Andersen Drive
Pittsburgh, PA 15220

SUBMITTAL BY:
Empirical Laboratories, LLC (EL)
621 Mainstream Drive, Suite 270
Nashville, TN 37228
Tel (615)345-1115
Fax (866)417-0548

LABORATORY CONTACT PERSON:
Project Manager: Brian Richard
Tel (615)345-1115
Fax (866)417-0548
Email: brichard@empirlabs.com

Original Report Date: November 1, 2011
Report Revision #: 01
Revision Date: November 23, 2011
Total # of Pages: 1415

THIS DOCUMENT MEETS DoD QSM 4.1 STANDARDS

The results relate to only the samples associated with the referenced SDG and the submitted data has been produced in accordance with laboratory procedures. The Laboratory's Technical Lab Director, Mr. Rick Davis, is responsible for the final data produced and reported. His signature is listed at the end of the Case Narrative within the Analytical Data Package. If applicable to this report package, details on report revisions and the information on subcontracted analysis are listed in the package Case Narrative. This report shall not be reproduced, except in full, without the written approval of Empirical Laboratories, LLC.

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Sample Delivery Group Case Narrative

Receipt Information
The samples were received within the preservation guidelines for the associated methods. The information associated with sample receipt and the Sample Delivery Group (SDG) are included within section 4 of this package, which also provides information on the link between the client sample ID listed on the COC and laboratory's assigned unique sample ID or WorkOrder #. The sample is tracked through the laboratory for all analysis via the assigned WorkOrder #.

All samples that were received were analyzed and none of the samples were placed on hold without analyses. Samples were subcontracted to Environmental Conservation Laboratories, Inc for 1,4-Dioxane by SW8260B.

Changes to the Revision
The package was revised to replace the SW6010C and SW7470A section of the package with the re-analysis of all samples for a different compound list analyzed as low level Metals.

Analytical Information
All samples were prepped (where applicable) and analyzed within the standard allowed holding times, unless noted within the exceptions listed below. The laboratory analyzed all samples within the program and method guidelines. The following information is provided specific to individual methods:

Chromatographic Flags for Manual Integration:
The following letters are used to denote manual integrations on the laboratory's raw data in association with chromatographic integrations:

A: The peak was manually integrated as it was not integrated in the original chromatogram.
B: The peak was manually integrated due to resolution or coelution issues in the original chromatogram.
C: The peak was manually integrated to correct the baseline from the original chromatogram.
D: The peak was manually integrated to identify the correct peak as the wrong peak was identified in the original chromatogram.
E: The peak was manually integrated to include the entire peak as the original chromatogram only integrated part of the peak.

SW8260B:
The matrix spikes associated to sample 1110003-12 exceeded recovery criteria with a negative bias for Bromomethane and with a positive bias for Chloroethane.

The continuing calibration verifications exceeded criteria in 1J27902-CCV1 with a positive bias for Acetone and 1,2,3-Trichlorobenzene and with a negative bias for Bromomethane, Chloroethane, Chloromethane, Cyclohexane, 1,1-Dichloroethane,

Cis-1,2-Dichloroethene, Trans-1,2-Dichloroethene, Methylene Chloride, Methyl Acetate, and Methyl t-Butyl Ether.
No additional anomalies or deviations are noted and the proper data qualifiers have been applied.

SW8270C BNA:
The surrogates 2-Fluorobiphenyl, Terphenyl-d14, and 2,4,6-Tribromophenol exceeded criteria with a negative bias in 1110003-05, -09RE1, and 1J03003-MSD1. The surrogates 2-Fluorophenol and Terphenyl-d14 exceeded criteria with a negative bias in 1110003-05, -09RE1, 1J03003-MS1, and –MSD1. The surrogate Nitrobenzene-d5 exceeded criteria with a negative bias n 1110003-09RE1.

The batch spike associated to batch 1J03003 exceeded criteria with a positive bias for Atrazine, 1,1'-Biphenyl, Bis(2-chloroethoxy)methane, 4-Chlorophenyl phenyl ether, and 2-Nitroaniline and with a negative bias for Caprolactam. The batch spike associated to batch 1J06004 exceeded criteria with a negative bias for Caprolactam, Hexachlorocyclopentadiene, and Hexachloroethane and with no recovery for 2,4-Dinitrophenol.

The matrix spikes associated to sample 111003-12 exceeded recovery criteria with a negative bias for Atrazine, Caprolactam, 4,6-Dinitro-2-methylphenol, 2-Methylphenol, 4-Methylphenol, 4-Nitroaniline, 4-Chloro-3-methylphenol, 2-Chloropohenol, 2,4-Dichlorophenol, 2,3,4,6-Tetrachlorophenol, 2,4,6-Trichlorophenool, and 2,4,5-Trichlorophenol, exceeded recovery criteria with no recovery for 3,3'-Dichlorobenzidine and 2,4-Dinitrophenol, and exceeded relative percent difference criteria for 4,6-Dinitro-2-methylphenol, 2-Methylphenol, 4-Methylphenol, 4-Chloro-3-methylphenol, 2-Chlorophenol, 2,4-Dichlorophenol, 2,4-Dimethylphenol, 3-Nitroaniline, 2-Nitrophenol, Phenol, 2,3,4,6-Tetrachlorophenol, 2,4,6-Trichlorophenol, and 2,4,5-Trichlorophenol.

All internal standards exceeded criteria with a negative bias in 1J06004-BS1.

The initial calibration verification 1E12203-ICV3 exceeded criteria with a positive bias for 2,4-Dinitrophenol.

The continuing calibration verifications exceeded criteria in 1J27903-CCV1 with a negative bias for Acetophenone, Atrazine, Benzaldehyde, Butylbenzylphthalate, Diethylphthalate, Bis(2-ethylhexyl)phthalate, 4-Nitroaniline, 2-Fluorobiphenyl, and Phenol-d6 and in 1J29315-CCV1 with a negative bias for Atrazine, Benzaldehyde, and 2,2'-Oxybis-1-chloropropane.

No additional anomalies or deviations are noted and the proper data qualifiers have been applied.

SW8270C BNA Low Level:
The method blank 1J03003-BLK2 has a positive result for Phenanthrene.

The surrogate 2-Fluorobiphenyl exceeded criteria with a negative bias in 1110003-09 and -12. The surrogate Terphenyl-d14 exceeded criteria with a negative bias in 1110003-09 and 1J03003-MSD2. The surrogate 2,4,6-Tribromophenol exceeded criteria with a negative bias in 1110003-09 and 1J03003-MSD2.

The batch spike associated to batch 1J03003 exceeded criteria with a positive bias for Pentachlorophenol.

The matrix spikes associated to sample 1110003-12 exceeded recovery criteria with a negative bias and relative percent difference criteria for Pentachlorophenol.

The continuing calibration verification 1J30114-CCV1 exceeded criteria with a negative bias for Pentachlorophenol.

No additional anomalies or deviations are noted and the proper data qualifiers have been applied.

SW8082A:
The surrogate Decachlorobiphenyl exceeded criteria with a negative bias in 1110003-03, -05, -06, -09, -11, -12, -14, -14RE1, 1J04002-BLK1, -BS2, -MS2, and -MSD2. Due to Decachlorobiphenyl being less than 10% in sample 1110003-14, is was re-extracted; however, the sample was re-extracted outside of the method recommended holding time.

Sample 1110003-12 is qualified with a Z-01 to indicate that the DL, LOD, and LOQs were raised due to matrix interference.

The batch spike associated to batch 1J04002 exceeded criteria with a positive bias on column 2 for Aroclor-1016. The batch spike associated to batch 1J13003 exceeded criteria with a positive bias on column 2 for Aroclor-1016 and -1260.

The matrix spikes associated to sample 1110003-12 exceeded recovery criteria with a negative bias on both columns for Aroclor-1260 and exceeded the relative percent difference criteria on column 2 for Aroclor-1016.

The continuing calibration verifications exceeded criteria in 1J28715-CCV1 with a positive bias on column 2 for Aroclor-1016 and -1260, in 1J28715-CCV2 on column 2 with a positive bias for Aroclor-1254, in 1J28715-CCV3 with a negative bias on column 2 for Decachlorobiphenyl, and in 1J29602-CCV1 and –CCV2 with a positive bias on column 2 for Aroclor-1016, Aroclor-1260, Tetrachloro-m-xylene, and Decachlorobiphenyl.

No additional anomalies or deviations are noted and the proper data qualifiers have been applied.

FLPRO:
Samples 1110003-01RE1, -03RE1, -05RE1, -07RE1, -09RE1, and -11RE1 were

extracted after the method recommended holding time.

The surrogate o-Terphenyl exceeded criteria with a negative bias in 1110003-05RE1, -07RE1, -09RE1, -12RE1, and -14RE1. The surrogate 2-Fluorobiphenyl exceeded criteria with a positive bas in 1J07001-MS1 and –MSD1. The surrogate o-Terphenyl exceeded the retention time window in 1J29109-CCV2.

The batch spike associated to batch 1J07001 exceeded recovery criteria with a positive bias for Petroleum Range Organics.

The matrix spikes associated to sample 1110003-12RE1 exceeded recovery criteria with a positive bias for Petroleum Range Organics.

The continuing calibration verifications 1J29109-CCV2 and 1J29310-CCV2 exceeded criteria with a positive bias for 2-Fluorobiphenyl.

No additional anomalies or deviations are noted and the proper data qualifiers have been applied.

SW6010C/SW7470A:
The continuing calibration verifications exceeded criteria in 1K32008-CCV6, -CCV7, and –CCV8 with a positive bias for Antimony.

The matrix spike associated to samples 1111003-28 and -29 exceeded recovery criteria with a negative bias for Selenium.

No additional anomalies or deviations are noted and the proper data qualifiers have been applied.

Data Qualifiers
As applicable and where required, the following general qualifiers are associated with the sample results. Additional qualifiers will be specified within the reporting sections of the data package or within the body of the Case Narrative.

Analytical Report Terms and Qualifiers

MDL: The method detection limit (MDL) is defined as the minimum concentration of a substance that can be measured and reported with 99% confidence that the analyte concentration is greater than zero. The MDL is determined from analysis of a sample containing the analyte in a given matrix. For DoD QSM 4.1 reporting purposes, this definition is also applied to the reported Detection Limit (DL).

LOD: The Limit of Detection is an estimate of the minimum amount of a substance that an analytical process can reliably detect. An LOD is analyte- and matrix-specific and may be laboratory-dependent. This definition is further clarified in the DoD QSM 4.1 revisions as the smallest amount or concentration of a substance that must be present in a sample in order to be detected at a high level of confidence (99%). At the LOD, the false negative rate (Type II error) is 1%.

LOQ: The Limit of Quantitation is the minimum level, concentration, or quantity of a target variable (e.g., target analyte) that can be reported with a specified degree of confidence. This term is further clarified within the DoD QSM 4.1 as the lowest concentration that produces a quantitative result within specified limits of precision and bias.

*****: An exceeding quality control criteria is associated with the reported result.

B: The presence of a "B" to the right of an analytical value indicates that this compound was also detected in the method blank and the data should be interpreted with caution. One should consider the possibility that the correct sample result might be less than the reported result and, perhaps, zero. **For Florida DEP reports this qualifier is "V".**

D: When a sample (or sample extract) is rerun diluted because one of the compound concentrations exceeded the highest concentration range for the standard curve, all of the values obtained in the dilution run will be flagged with a "D".

E: The concentration for any compound found which exceeds the highest concentration level on the standard curve for that compound will be flagged with an "E". Usually the sample will be rerun at a dilution to quantitate the flagged compound. **For Florida DEP reports this qualifier is "L".**

H1: The result was analyzed outside of the EPA recommended holding time.

H2: The result was extracted outside of the EPA recommended holding time.

H3: The sample for this analyte was received outside of the EPA recommended holding time.

J: The presence of a "J" to the right of an analytical result indicates that the reported result is estimated. The mass spectral data pass the identification criteria showing that the compound is present, but the calculated result is less than the EQL. One should feel confident that the result is greater than zero and less than the EQL. **For Florida DEP reports this qualifier is "I".**

M: Indicates that the sample matrix interfered with the quantitation of the analyte. In dual column analysis the result is reported from the column with the lower concentration. In inorganics, it indicates that the parameters MDL/RL has been raised.

N: The MS/MSD accuracy and/or precision are outside criteria. The predigested spike recovery is not within control limits for the associated parameter.

P: The associated numerical value is an estimated quantity. There is greater than a 40% difference between the two GC columns for the detected concentrations. The higher of the two values is reported unless matrix interference is obvious or for HPLC analysis where the primary column is reported.

Q: The RPD and/or percent recovery exceeded limits in the associated Blank Spike and/or Blank Spike Duplicate.

S: The associated internal standard failed criteria.

U: The presence of a "U" indicates that the analyte was analyzed for but was not detected or the concentration of the analyte quantitated below the DL.

X: The parameter shows a potential positive bias on a reported concentration due to an ICV or CCV exceeding the upper control limit on the high side.

Y: The parameter shows a potential negative bias on a reported concentration due to an ICV or CCV exceeding the lower control limit on the low side.

Z: The parameter shows lack of confirmation/detection, which may be due to a negative bias in the ICV or CCV which exceeds the lower control limit.

LIMS Definitions / Naming Conventions:

The following are general naming conventions that are used throughout the laboratory; however, on a method by method basis, there are additional QAQC items that are named in a consistent format.

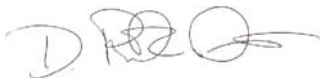
BLK: LIMS assigns a unique identifier to the Method Blank by naming it as the letters BLK appended to the Batch ID. A Method Blank is an analyte-free matrix to which all reagents are added in the same volumes or proportions as used in sample processing. The Method Blank is used to assess for possible contamination during preparation and/or analysis steps. Method Blanks within a Batch or Analytical sequence will be appended with a numerical value beginning with 1 that will increase incrementally.

BS: LIMS assigns a unique identifier to the Blank Spike by naming it as the letters BS appended to the Batch ID. The Blank Spike or Lab Control Sample is a controlled analyte-free matrix, which is spiked with known and verified concentrations of target analytes. Spiking concentrations can be referenced in the method SOP. The BS is used to evaluate the viability of analytes taken through the entire prep (when applicable) and analytical process. Blank Spikes within a Batch or Analytical sequence will be appended with a numerical value beginning with 1 that will increase incrementally. A duplicate Blank Spike will be designated as a BSD.

MS: The LIMS assigns each Client sample with a unique identifier. The Matrix Spike is designated with a MS at the end of the sample's unique identifier. The Matrix Spike sample is used to assess the effect of the sample matrix on the precision and accuracy of the results generated using the selected method. A duplicate Matrix Spike will be designated as a MSD.

IDs: The LIMS assigns each Client sample with a unique identifier. The letter "RE" may potentially be appended to the end of the LIMS Sample ID. And "**RE"** implies that the sample was either re-prepped, re-analyzed straight, or re-analyzed at a dilution. Subsequent re-analysis for the sample will be appended with a numerical value beginning with 1 that will increase incrementally. Eg: RE1, RE2, RE3, etc.

Statement of Data Authenticity:
I certify that, based upon my inquiry of those individuals immediately responsible for obtaining the information and to the best of my knowledge, the data package is in compliance with the terms and conditions of the contract, both technically and for completeness, with the exception of the conditions detailed in this Case Narrative, as verified by my signature below. During absences, Ms. Marcia K. McGinnity is authorized to sign this Statement of Data Authenticity.



Mr. Rick D. Davis
Laboratory Technical Director / VP Operations

ORGANIC CALCULATIONS

GC/MS Volatiles

$$\text{Final Concentration} = \frac{\text{On-column(ug/L or ug/Kg) * Expected Vol/Weight (mL or g) * Dilution}}{\text{Initial Vol/Weight (mL or g) * (Percent Solids/100) (if applicable)}}$$

Note - Expected Vol/Weight value is found in "Final Vol" column of Preparation Batch Summary.

GC/MS Extractables

$$\text{Final Concentration} = \frac{\text{On-column(ng/uL) * Final Vol (ml) * Dilution *(1000uL/mL)}}{\text{Initial Vol/Weight (mL or g) * (Percent Solids/100) (if applicable)}}$$

= ng/mL or ng/g

= ug/L or ug/kg

GC or LC Extractables

$$\text{Final Concentration} = \frac{\text{On-column(ng/mL) * Final Vol (mL) * Dilution}}{\text{Initial Vol/Weight (mL or g) * (Percent Solids/100) (if applicable)}}$$

= ng/mL or ng/g

= ug/L or ug/kg

Sample Receipt Information

TETRA TECH NUS, INC. CHAIN OF CUSTODY | NUMBER № 2308 | PAGE 1 OF 1

PROJECT NO:	FACILITY:	PROJECT MANAGER	PHONE NUMBER	LABORATORY NAME AND CONTACT:
112G03309	FLC 4+5	B. MARSHALL	904-636-6125	EMPIRICAL LABS
SAMPLERS (SIGNATURE)		FIELD OPERATIONS LEADER	PHONE NUMBER	ADDRESS
K. WEICHERT		K. WEICHERT	904-636-6125	621 MAINSTREAM DR. ST. 270
		CARRIER/WAYBILL NUMBER		CITY, STATE
				NASHVILLE, TN

STANDARD TAT ☒
RUSH TAT ☐
☐ 24 hr. ☐ 48 hr. ☐ 72 hr. ☐ 7 day ☐ 14 day

DATE YEAR 2011	TIME	SAMPLE ID	LOCATION ID	TOP DEPTH (FT)	BOTTOM DEPTH (FT)	MATRIX (GW, SO, SW, SD, QC, ETC.)	COLLECTION METHOD GRAB (G) COMP (C)	No. OF CONTAINERS	TRPH - FL PRO	SVOCS - 8270	PEST / PCB	VOCS - 8260	1,4 DIOXANE	TOTAL METALS	FIELD FILTERED METALS	COMMENTS
		1110003														
		CONTAINER TYPE PLASTIC (P) or GLASS (G)							AG	AG	AG	CG	CG	P	P	
		PRESERVATIVE USED							HCl	–	–	HCl	HCl	HNO3	HNO3	
-01 -02 9/29	0820	FLC-4-MW01-092911				GW	G	12	2	2	1	3	2	1	1	– COOL TO 4°C
-03 -04 9/29	0930	FLC-4-MW02-092911				GW	G	12	2	2	1	3	2	1	1	
-05 -06 9/29	1125	FLC-5-MW05-092911				GW	G	12	2	2	1	3	2	1	1	
-07 -08 9/29	1250	FLC-5-MW04-092911				GW	G	12	2	2	1	3	2	1	1	
-09 -10 9/29	1400	FLC-5-MW03-092911				GW	G	12	2	2	1	3	2	1	1	
-11 9/29	1435	FLC-RBD2-092911				QC		11	2	2	1	3	2	1		
-12 -13 9/30	0915	FLC-5-MW01-092911				GW	G	36	6	6	3	9	6	3	3	– MS/MSD COLLECTED
-14 -15 9/30	1105	FLC-5-MW02-092911				GW	G	12	2	2	1	3	2	1	1	
-16	0000	TRIPBLANK				QC	– 1 PER COOLER W/ VOC SAMPLES									
	0000	TEMPBLANK – 1 PER COOLER														

	DATE	TIME		DATE	TIME
1. RELINQUISHED BY K. WEICHERT	9-30-11	1600	1. RECEIVED BY		
2. RELINQUISHED BY			2. RECEIVED BY		
3. RELINQUISHED BY			3. RECEIVED BY Raymond Lalley	10.1.11	0910

COMMENTS

DISTRIBUTION: WHITE (ACCOMPANIES SAMPLE) YELLOW (FIELD COPY) PINK (FILE COPY)

4/02R
FORM NO. TtNUS-001

Cooler Received/Opened On_ 10/01/11 @ 09:10

1. Tracking #_____4229_____(last 4 digits, FedEx)

Courier: ___FEDEX

2. Temperature of rep. sample or temp blank when opened: 1.0 *Degrees Celsius + correction factor 1.6* = 2.6

3. If Item #2 temperature is 0°C or less, was the representative sample or temp blank frozen? YES NO...NA

4. Were custody seals on outside of cooler? YES...NO...NA

If yes, how many and where: Front & Back

5. Were the seals intact, signed, and dated correctly? YES...NO...NA

6. Were custody papers inside cooler? YES...NO...NA

I certify that I opened the cooler and answered questions 1-6 (intial) RT

7. Were custody seals on containers: YES NO and Intact YES...NO...NA

Were these signed and dated correctly? YES...NO...NA

8. Packing mat'l used? Bubble wrap Plastic bag Peanuts Vermiculite Foam Insert Paper Other None

9. Cooling process: Ice Ice-pack Ice (direct contact) Dry ice Other None

10. Did all containers arrive in good condition (unbroken)? YES...NO...NA

11. Were all container labels complete (#, date, signed, pres., etc)? YES...NO...NA

12. Did all container labels and tags agree with custody papers? YES...NO...NA

13a. Were VOA vials received? YES...NO...NA

b. Was there any observable headspace present in any VOA vial? YES...NO...NA

14. Was there a Trip Blank in this cooler? YES...NO...NA If multiple coolers, sequence #_____

I certify that I unloaded the cooler and answered questions 7-14 (intial) RT

15a. On pres'd bottles, did pH test strips suggest preservation reached the correct pH level? YES...NO..NA

b. Did the bottle labels indicate that the correct preservatives were used YES...NO...NA

16. Was residual chlorine present? YES...NO...NA

I certify that I checked for chlorine and pH as per SOP and answered questions 15-16 (intial) RT

17. Were custody papers properly filled out (ink, signed, etc)? YES...NO...NA

18. Did you sign the custody papers in the appropriate place? YES...NO...NA

19. Were correct containers used for the analysis requested? YES...NO...NA

20. Was sufficient amount of sample sent in each container? YES...NO...NA

I certify that I entered this project into LIMS and answered questions 17-20 (intial) RT

I certify that I attached a label with the unique LIMS number to each container (intial) RT

21. Were there Non-Conformance issues at login? YES...NO Was a NCR generated? YES...NO...#_____

Additional Details:

Cooler Received/Opened On_10/01/11 @ 09:10

1. Tracking #_____4187_____(last 4 digits, FedEx)

Courier: ___FEDEX

2. Temperature of rep. sample or temp blank when opened: 1.5 *Degrees Celsius + correction factor 1.6* = 3.1

3. If Item #2 temperature is 0°C or less, was the representative sample or temp blank frozen? YES NO...NA

4. Were custody seals on outside of cooler? YES...NO...NA

If yes, how many and where: Front & Back

5. Were the seals intact, signed, and dated correctly? YES...NO...NA

6. Were custody papers inside cooler? YES...NO...NA

I certify that I opened the cooler and answered questions 1-6 (intial) RT

7. Were custody seals on containers: YES NO and Intact YES...NO...NA

Were these signed and dated correctly? YES...NO...NA

8. Packing mat'l used? Bubble wrap Plastic bag Peanuts Vermiculite Foam Insert Paper Other None

9. Cooling process: Ice Ice-pack Ice (direct contact) Dry ice Other None

10. Did all containers arrive in good condition (unbroken)? YES...NO...NA

11. Were all container labels complete (#, date, signed, pres., etc)? YES...NO...NA

12. Did all container labels and tags agree with custody papers? YES...NO...NA

13a. Were VOA vials received? YES...NO...NA

b. Was there any observable headspace present in any VOA vial? YES...NO...NA

14. Was there a Trip Blank in this cooler? YES...NO...NA If multiple coolers, sequence #_____

I certify that I unloaded the cooler and answered questions 7-14 (intial) RT

15a. On pres'd bottles, did pH test strips suggest preservation reached the correct pH level? YES...NO...NA

b. Did the bottle labels indicate that the correct preservatives were used YES...NO...NA

16. Was residual chlorine present? YES...NO...NA

I certify that I checked for chlorine and pH as per SOP and answered questions 15-16 (intial) RT

17. Were custody papers properly filled out (ink, signed, etc)? YES...NO...NA

18. Did you sign the custody papers in the appropriate place? YES...NO...NA

19. Were correct containers used for the analysis requested? YES...NO...NA

20. Was sufficient amount of sample sent in each container? YES...NO...NA

I certify that I entered this project into LIMS and answered questions 17-20 (intial) RT

I certify that I attached a label with the unique LIMS number to each container (intial) RT

21. Were there Non-Conformance issues at login? YES...NO Was a NCR generated? YES...NO...#_____

Additional Details:

Cooler Received/Opened On_10/01/11 @ 09:10

1. Tracking #_4295_(last 4 digits, FedEx)

Courier: ___FEDEX

2. Temperature of rep. sample or temp blank when opened: 0.6 *Degrees Celsius + correction factor 1.6* = 2.2

3. If Item #2 temperature is 0°C or less, was the representative sample or temp blank frozen? YES NO...NA

4. Were custody seals on outside of cooler? YES...NO...NA

If yes, how many and where: Front & Back

5. Were the seals intact, signed, and dated correctly? YES...NO...NA

6. Were custody papers inside cooler? YES...NO...NA

I certify that I opened the cooler and answered questions 1-6 (intial) RT

7. Were custody seals on containers: YES NO and Intact YES...NO...NA

Were these signed and dated correctly? YES...NO...NA

8. Packing mat'l used? Bubble wrap Plastic bag Peanuts Vermiculite Foam Insert Paper Other None

9. Cooling process: Ice Ice-pack Ice (direct contact) Dry ice Other None

10. Did all containers arrive in good condition (unbroken)? YES...NO...NA

11. Were all container labels complete (#, date, signed, pres., etc)? YES...NO...NA

12. Did all container labels and tags agree with custody papers? YES...NO...NA

13a. Were VOA vials received? YES...NO...NA

b. Was there any observable headspace present in any VOA vial? YES...NO...NA

14. Was there a Trip Blank in this cooler? YES...NO...NA If multiple coolers, sequence #_____

I certify that I unloaded the cooler and answered questions 7-14 (intial) RT

15a. On pres'd bottles, did pH test strips suggest preservation reached the correct pH level? YES...NO..NA

b. Did the bottle labels indicate that the correct preservatives were used YES...NO...NA

16. Was residual chlorine present? YES...NO...NA

I certify that I checked for chlorine and pH as per SOP and answered questions 15-16 (intial) RT

17. Were custody papers properly filled out (ink, signed, etc)? YES...NO...NA

18. Did you sign the custody papers in the appropriate place? YES...NO...NA

19. Were correct containers used for the analysis requested? YES...NO...NA

20. Was sufficient amount of sample sent in each container? YES...NO...NA

I certify that I entered this project into LIMS and answered questions 17-20 (intial) RT

I certify that I attached a label with the unique LIMS number to each container (intial) RT

21. Were there Non-Conformance issues at login? YES...NO Was a NCR generated? YES...NO...#_____

Additional Details:

Cooler Received/Opened On_10/01/11 @ 09:10

1. Tracking #_4332_(last 4 digits, FedEx)

Courier: ___FEDEX

2. Temperature of rep. sample or temp blank when opened: 1.8 *Degrees Celsius + correction factor 1.6 =* 3.4

3. If Item #2 temperature is 0°C or less, was the representative sample or temp blank frozen? YES NO...NA

4. Were custody seals on outside of cooler? YES...NO...NA

If yes, how many and where: Front & Back

5. Were the seals intact, signed, and dated correctly? YES...NO...NA

6. Were custody papers inside cooler? YES...NO...NA

I certify that I opened the cooler and answered questions 1-6 (intial) RT

7. Were custody seals on containers: YES NO and Intact YES...NO...NA

Were these signed and dated correctly? YES...NO...NA

8. Packing mat'l used? Bubble wrap Plastic bag Peanuts Vermiculite Foam Insert Paper Other None

9. Cooling process: Ice Ice-pack Ice (direct contact) Dry ice Other None

10. Did all containers arrive in good condition (unbroken)? YES...NO...NA

11. Were all container labels complete (#, date, signed, pres., etc)? YES...NO...NA

12. Did all container labels and tags agree with custody papers? YES...NO...NA

13a. Were VOA vials received? YES...NO...NA

b. Was there any observable headspace present in any VOA vial? YES...NO...NA

14. Was there a Trip Blank in this cooler? YES...NO...NA If multiple coolers, sequence #_____

I certify that I unloaded the cooler and answered questions 7-14 (intial) RT

15a. On pres'd bottles, did pH test strips suggest preservation reached the correct pH level? YES...NO...NA

b. Did the bottle labels indicate that the correct preservatives were used YES...NO...NA

16. Was residual chlorine present? YES...NO...NA

I certify that I checked for chlorine and pH as per SOP and answered questions 15-16 (intial) RT

17. Were custody papers properly filled out (ink, signed, etc)? YES...NO...NA

18. Did you sign the custody papers in the appropriate place? YES...NO...NA

19. Were correct containers used for the analysis requested? YES...NO...NA

20. Was sufficient amount of sample sent in each container? YES...NO...NA

I certify that I entered this project into LIMS and answered questions 17-20 (intial) RT

I certify that I attached a label with the unique LIMS number to each container (intial) RT

21. Were there Non-Conformance issues at login? YES...NO Was a NCR generated? YES...NO...#_____

Additional Details:

Cooler Received/Opened On_10/01/11 @ 09:10

1. Tracking #_4343_(last 4 digits, FedEx)

Courier: ___FEDEX

2. Temperature of rep. sample or temp blank when opened: 1.2 *Degrees Celsius + correction factor 1.6* = 2.8

3. If Item #2 temperature is 0°C or less, was the representative sample or temp blank frozen? YES NO...NA

4. Were custody seals on outside of cooler? YES...NO...NA

If yes, how many and where: Front & Back

5. Were the seals intact, signed, and dated correctly? YES...NO...NA

6. Were custody papers inside cooler? YES...NO...NA

I certify that I opened the cooler and answered questions 1-6 (intial) RT

7. Were custody seals on containers: YES NO and Intact YES...NO...NA

Were these signed and dated correctly? YES...NO...NA

8. Packing mat'l used? Bubble wrap Plastic bag Peanuts Vermiculite Foam Insert Paper Other None

9. Cooling process: Ice Ice-pack Ice (direct contact) Dry ice Other None

10. Did all containers arrive in good condition (unbroken)? YES...NO...NA

11. Were all container labels complete (#, date, signed, pres., etc)? YES...NO...NA

12. Did all container labels and tags agree with custody papers? YES...NO...NA

13a. Were VOA vials received? YES...NO...NA

b. Was there any observable headspace present in any VOA vial? YES...NO...NA

14. Was there a Trip Blank in this cooler? YES...NO...NA If multiple coolers, sequence #_____

I certify that I unloaded the cooler and answered questions 7-14 (intial) RT

15a. On pres'd bottles, did pH test strips suggest preservation reached the correct pH level? YES...NO..NA

b. Did the bottle labels indicate that the correct preservatives were used YES...NO...NA

16. Was residual chlorine present? YES...NO...NA

I certify that I checked for chlorine and pH as per SOP and answered questions 15-16 (intial) RT

17. Were custody papers properly filled out (ink, signed, etc)? YES...NO...NA

18. Did you sign the custody papers in the appropriate place? YES...NO...NA

19. Were correct containers used for the analysis requested? YES...NO...NA

20. Was sufficient amount of sample sent in each container? YES...NO...NA

I certify that I entered this project into LIMS and answered questions 17-20 (intial) RT

I certify that I attached a label with the unique LIMS number to each container (intial) RT

21. Were there Non-Conformance issues at login? YES...NO Was a NCR generated? YES...NO...#_____

Additional Details:

SUBCONTRACT ORDER

Empirical Laboratories, LLC

1110003

SENDING LABORATORY:

Empirical Laboratories, LLC
621 Mainstream Drive, Suite 270
Nashville, TN 37228
Phone: 615.345.1115
Fax: 866.417.0548
Project Manager: Brian Richard

RECEIVING LABORATORY:

Environmental Conservation Laboratories, Inc (SUB)
10775 Central Port Drive
Orlando, FL 32824
Phone :(404) 826-5314
Fax: (404) 850-6945

Analysis	Due	Expires	Laboratory ID	Comments
Sample ID: FLC-4-MW01-092911				
Reference No: 1110003-01	**Water**	**Sampled:09/29/2011 08:20**		
SUB_SPECIALTY	10/19/2011 14:00	03/27/2012 07:20		1,4-Dioxane sub
Containers Supplied:				
Sample ID: FLC-4-MW02-092911				
Reference No: 1110003-03	**Water**	**Sampled:09/29/2011 09:30**		
SUB_SPECIALTY	10/19/2011 14:00	03/27/2012 08:30		1,4-Dioxane sub
Containers Supplied:				
Sample ID: FLC-5-MW05-092911				
Reference No: 1110003-05	**Water**	**Sampled:09/29/2011 11:25**		
SUB_SPECIALTY	10/19/2011 14:00	03/27/2012 10:25		1,4-Dioxane sub
Containers Supplied:				
Sample ID: FLC-5-MW04-092911				
Reference No: 1110003-07	**Water**	**Sampled:09/29/2011 12:50**		
SUB_SPECIALTY	10/19/2011 14:00	03/27/2012 11:50		1,4-Dioxane sub
Containers Supplied:				
Sample ID: FLC-5-MW03-092911				
Reference No: 1110003-09	**Water**	**Sampled:09/29/2011 14:00**		
SUB_SPECIALTY	10/19/2011 14:00	03/27/2012 13:00		1,4-Dioxane sub
Containers Supplied:				
Sample ID: FLC-RB02-092911				
Reference No: 1110003-11	**Water**	**Sampled:09/29/2011 14:35**		
SUB_SPECIALTY	10/19/2011 14:00	03/27/2012 13:35		1,4-Dioxane sub
Containers Supplied:				

Released By	Date	Received By	Date

Released By	Date	Received By	Date

SUBCONTRACT ORDER

Empirical Laboratories, LLC

1110003

Analysis	Due	Expires	Laboratory ID	Comments
Sample ID: FLC-5-MW01-092911				
Reference No: 1110003-12	**Water**	**Sampled:09/30/2011 09:15**		**MS/MSD**
SUB_SPECIALTY	10/19/2011 14:00	03/28/2012 08:15		1,4-Dioxane sub
Containers Supplied:				
Sample ID: FLC-5-MW02-092911				
Reference No: 1110003-14	**Water**	**Sampled:09/30/2011 11:05**		
SUB_SPECIALTY	10/19/2011 14:00	03/28/2012 10:05		1,4-Dioxane sub
Containers Supplied:				

Released By	Date	Received By	Date

Released By	Date	Received By	Date

WORK ORDER

1110003

Printed: 11/1/2011 12:05:58PM

Empirical Laboratories, LLC

Client: Tetra Tech NUS, Inc. (T010)
Project: Navy Fuel Depot CTO JM46

Project Manager: Brian Richard
Project Number: Navy Fuel Depot CTO JM46

Report To:
Tetra Tech NUS, Inc. (T010)
Accounts Payable
661 Andersen Drive
Pittsburgh, PA 15220-2745
Phone: (412) 921-8182
Fax: (412) 921-4040

Invoice To:
Tetra Tech NUS, Inc. (T010)
Accounts Payable
661 Andersen Drive
Pittsburgh, PA 15220-2745
Phone :(412) 921-8182
Fax: (412) 921-4040

Date Due: 10/19/2011 16:00 (12 day TAT)
Received By: Reginald Talley
Logged In By: Reginald Talley
Date Received: 10/01/2011 09:10
Date Logged In 10/01/2011 10:33

Samples Received at: **3.1°C**

Custody Seals	Yes	Received On Ice	Yes
Containers Intact	Yes		
COC/Labels Agree	Yes		
Preservation Confir	Yes		

Analysis	Due	TAT	Expires	Version	Comments
1110003-01 FLC-4-MW01-092911 [Water] Sampled 09/29/2011 08:20 Eastern					
SW8260B	10/19/2011 14:00	10	10/13/2011 07:20		
SW6010C	10/19/2011 14:00	10	03/27/2012 07:20		
SW8270C	10/14/2011 14:00	10	10/06/2011 07:20		HCBD_PCP_PAHs for waters!
SW8270C (Cancelled)	10/14/2011 14:00	10	10/06/2011 07:20		Replaced with SMS_BNA_8270C_LOW_3510C 10/5/11 BKR/MKM
SW7470A	10/14/2011 14:00	10	10/27/2011 07:20		
FLPRO	10/19/2011 14:00	10	10/06/2011 07:20		
SW8082A	10/19/2011 14:00	10	10/06/2011 07:20		
SW8270C	10/19/2011 14:00	10	10/06/2011 07:20		LOD 0.1ug/L in Target!

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WORK ORDER

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Empirical Laboratories, LLC

Client: Tetra Tech NUS, Inc. (T010)
Project: Navy Fuel Depot CTO JM46

Project Manager: Brian Richard
Project Number: Navy Fuel Depot CTO JM46

Analysis	Due	TAT	Expires	Version	Comments
1110003-02 FLC-4-MW01-092911 [Water] Sampled 09/29/2011 08:20 Eastern					
SW7470A	10/14/2011 14:00	10	10/27/2011 07:20		
SW6010C	10/14/2011 14:00	10	03/27/2012 07:20		
1110003-03 FLC-4-MW02-092911 [Water] Sampled 09/29/2011 09:30 Eastern					
FLPRO	10/19/2011 14:00	10	10/06/2011 08:30		
SW8082A	10/19/2011 14:00	10	10/06/2011 08:30		
SW8270C	10/19/2011 14:00	10	10/06/2011 08:30		LOD 0.1ug/L in Target!
SW8270C	10/14/2011 14:00	10	10/06/2011 08:30		HCBD_PCP_PAHs for waters!
SW7470A	10/14/2011 14:00	10	10/27/2011 08:30		
SW8270C (Cancelled)	10/14/2011 14:00	10	10/06/2011 08:30		Replaced with SMS_BNA_8270C_LOW_3510C 10/5/11 BKR/MKM
SW6010C	10/19/2011 14:00	10	03/27/2012 08:30		
SW8260B	10/19/2011 14:00	10	10/13/2011 08:30		
1110003-04 FLC-4-MW02-092911 [Water] Sampled 09/29/2011 09:30 Eastern					
SW7470A	10/14/2011 14:00	10	10/27/2011 08:30		
SW6010C	10/14/2011 14:00	10	03/27/2012 08:30		

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WORK ORDER

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Empirical Laboratories, LLC

Client: Tetra Tech NUS, Inc. (T010)
Project: Navy Fuel Depot CTO JM46

Project Manager: Brian Richard
Project Number: Navy Fuel Depot CTO JM46

Analysis	Due	TAT	Expires	Version	Comments
1110003-05 FLC-5-MW05-092911 [Water] Sampled 09/29/2011 11:25 Eastern					
SW8270C (Cancelled)	10/14/2011 14:00	10	10/06/2011 10:25		Replaced with SMS_BNA_8270C_LOW_3510C 10/5/11 BKR/MKM
SW8082A	10/19/2011 14:00	10	10/06/2011 10:25		
SW8270C	10/19/2011 14:00	10	10/06/2011 10:25		LOD 0.1ug/L in Target!
SW8260B	10/19/2011 14:00	10	10/13/2011 10:25		
SW6010C	10/19/2011 14:00	10	03/27/2012 10:25		
FLPRO	10/19/2011 14:00	10	10/06/2011 10:25		
SW8270C	10/14/2011 14:00	10	10/06/2011 10:25		HCBD_PCP_PAHs for waters!
SW7470A	10/14/2011 14:00	10	10/27/2011 10:25		
1110003-06 FLC-5-MW05-092911 [Water] Sampled 09/29/2011 11:25 Eastern					
SW7470A	10/14/2011 14:00	10	10/27/2011 10:25		
SW6010C	10/14/2011 14:00	10	03/27/2012 10:25		
1110003-07 FLC-5-MW04-092911 [Water] Sampled 09/29/2011 12:50 Eastern					
FLPRO	10/19/2011 14:00	10	10/06/2011 11:50		
SW7470A	10/14/2011 14:00	10	10/27/2011 11:50		
SW8082A	10/19/2011 14:00	10	10/06/2011 11:50		
SW8260B	10/19/2011 14:00	10	10/13/2011 11:50		
SW6010C	10/19/2011 14:00	10	03/27/2012 11:50		
SW8270C	10/19/2011 14:00	10	10/06/2011 11:50		LOD 0.1ug/L in Target!
SW8270C	10/14/2011 14:00	10	10/06/2011 11:50		HCBD_PCP_PAHs for waters!
SW8270C (Cancelled)	10/14/2011 14:00	10	10/06/2011 11:50		Replaced with SMS_BNA_8270C_LOW_3510C 10/5/11 BKR/MKM

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Empirical Laboratories, LLC

Client: Tetra Tech NUS, Inc. (T010)
Project: Navy Fuel Depot CTO JM46

Project Manager: Brian Richard
Project Number: Navy Fuel Depot CTO JM46

Analysis	Due	TAT	Expires	Version	Comments
1110003-08 FLC-5-MW04-092911 [Water] Sampled 09/29/2011 12:50 Eastern					
SW6010C	10/14/2011 14:00	10	03/27/2012 11:50		
SW7470A	10/14/2011 14:00	10	10/27/2011 11:50		
1110003-09 FLC-5-MW03-092911 [Water] Sampled 09/29/2011 14:00 Eastern					
FLPRO	10/19/2011 14:00	10	10/06/2011 13:00		
SW8270C (Cancelled)	10/14/2011 14:00	10	10/06/2011 13:00		Replaced with SMS_BNA_8270C_LOW_3510C 10/5/11 BKR/MKM
SW8260B	10/19/2011 14:00	10	10/13/2011 13:00		
SW6010C	10/19/2011 14:00	10	03/27/2012 13:00		
SW8082A	10/19/2011 14:00	10	10/06/2011 13:00		
SW8270C	10/19/2011 14:00	10	10/06/2011 13:00		LOD 0.1ug/L in Target!
SW8270C	10/14/2011 14:00	10	10/06/2011 13:00		HCBD_PCP_PAHs for waters!
SW7470A	10/14/2011 14:00	10	10/27/2011 13:00		
1110003-10 FLC-5-MW03-092911 [Water] Sampled 09/29/2011 14:00 Eastern					
SW7470A	10/14/2011 14:00	10	10/27/2011 13:00		
SW6010C	10/14/2011 14:00	10	03/27/2012 13:00		

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Empirical Laboratories, LLC

Client: Tetra Tech NUS, Inc. (T010)
Project: Navy Fuel Depot CTO JM46

Project Manager: Brian Richard
Project Number: Navy Fuel Depot CTO JM46

Analysis	Due	TAT	Expires	Version	Comments
1110003-11 FLC-RB02-092911 [Water] Sampled 09/29/2011 14:35 Eastern					
SW7470A	10/14/2011 14:00	10	10/27/2011 13:35		
SW8270C	10/19/2011 14:00	10	10/06/2011 13:35		LOD 0.1ug/L in Target!
SW8082A	10/19/2011 14:00	10	10/06/2011 13:35		
SW8270C (Cancelled)	10/14/2011 14:00	10	10/06/2011 13:35		Replaced with SMS_BNA_8270C_LOW_3510C 10/5/11 BKR/MKM
SW8260B	10/19/2011 14:00	10	10/13/2011 13:35		
SW6010C	10/19/2011 14:00	10	03/27/2012 13:35		
SW8270C	10/14/2011 14:00	10	10/06/2011 13:35		HCBD_PCP_PAHs for waters!
FLPRO	10/19/2011 14:00	10	10/06/2011 13:35		
1110003-12 FLC-5-MW01-092911 [Water] Sampled 09/30/2011 09:15 Eastern					**MS/MSD**
SW8260B	10/19/2011 14:00	10	10/14/2011 08:15		MS/MSD
SW8270C (Cancelled)	10/14/2011 14:00	10	10/07/2011 08:15		Replaced with SMS_BNA_8270C_LOW_3510C 10/5/11 BKR/MKM
SW8270C	10/14/2011 14:00	10	10/07/2011 08:15		HCBD_PCP_PAHs for waters!
SW8270C	10/19/2011 14:00	10	10/07/2011 08:15		LOD 0.1ug/L in Target!
SW8082A	10/19/2011 14:00	10	10/07/2011 08:15		MS/MSD
FLPRO	10/19/2011 14:00	10	10/07/2011 08:15		MS/MSD
SW6010C	10/19/2011 14:00	10	03/28/2012 08:15		MS/MSD
SW7470A	10/14/2011 14:00	10	10/28/2011 08:15		MS/MSD
1110003-13 FLC-5-MW01-092911 [Water] Sampled 09/30/2011 09:15 Eastern					**MS/MSD**
SW7470A	10/14/2011 14:00	10	10/28/2011 08:15		MS/MSD
SW6010C	10/14/2011 14:00	10	03/28/2012 08:15		MS/MSD

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Empirical Laboratories, LLC

Client: Tetra Tech NUS, Inc. (T010)
Project: Navy Fuel Depot CTO JM46

Project Manager: Brian Richard
Project Number: Navy Fuel Depot CTO JM46

Analysis	Due	TAT	Expires	Version	Comments
1110003-14 FLC-5-MW02-092911 [Water] Sampled 09/30/2011 11:05 Eastern					
FLPRO	10/19/2011 14:00	10	10/07/2011 10:05		
SW7470A	10/14/2011 14:00	10	10/28/2011 10:05		
SW6010C	10/19/2011 14:00	10	03/28/2012 10:05		
SW8260B	10/19/2011 14:00	10	10/14/2011 10:05		
SW8270C (Cancelled)	10/14/2011 14:00	10	10/07/2011 10:05		Replaced with SMS_BNA_8270C_LOW_3510C 10/5/11 BKR/MKM
SW8270C	10/14/2011 14:00	10	10/07/2011 10:05		HCBD_PCP_PAHs for waters!
SW8082A	10/19/2011 14:00	10	10/07/2011 10:05		
SW8270C	10/19/2011 14:00	10	10/07/2011 10:05		LOD 0.1ug/L in Target!
1110003-15 FLC-5-MW02-092911 [Water] Sampled 09/30/2011 11:05 Eastern					
SW7470A	10/14/2011 14:00	10	10/28/2011 10:05		
SW6010C	10/14/2011 14:00	10	03/28/2012 10:05		
1110003-16 TRIP BLANK [Water] Sampled 09/30/2011 00:00 Eastern					
SW8260B	10/19/2011 14:00	10	10/13/2011 23:00		

Environmental Conservation Laboratories, Inc (SUB)

1110003-01 FLC-4-MW01-092911 [Water] Sampled 09/29/2011 08:20 Eastern					
SUB_SPECIALTY	10/19/2011 14:00	10	03/27/2012 07:20		1,4-Dioxane sub
1110003-03 FLC-4-MW02-092911 [Water] Sampled 09/29/2011 09:30 Eastern					
SUB_SPECIALTY	10/19/2011 14:00	10	03/27/2012 08:30		1,4-Dioxane sub
1110003-05 FLC-5-MW05-092911 [Water] Sampled 09/29/2011 11:25 Eastern					
SUB_SPECIALTY	10/19/2011 14:00	10	03/27/2012 10:25		1,4-Dioxane sub

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Empirical Laboratories, LLC

Client: Tetra Tech NUS, Inc. (T010)
Project: Navy Fuel Depot CTO JM46

Project Manager: Brian Richard
Project Number: Navy Fuel Depot CTO JM46

Analysis	Due	TAT	Expires	Version	Comments
Environmental Conservation Laboratories, Inc (SUB)					
1110003-07 FLC-5-MW04-092911 [Water] Sampled 09/29/2011 12:50 Eastern					
SUB_SPECIALTY	10/19/2011 14:00	10	03/27/2012 11:50		1,4-Dioxane sub
1110003-09 FLC-5-MW03-092911 [Water] Sampled 09/29/2011 14:00 Eastern					
SUB_SPECIALTY	10/19/2011 14:00	10	03/27/2012 13:00		1,4-Dioxane sub
1110003-11 FLC-RB02-092911 [Water] Sampled 09/29/2011 14:35 Eastern					
SUB_SPECIALTY	10/19/2011 14:00	10	03/27/2012 13:35		1,4-Dioxane sub
1110003-12 FLC-5-MW01-092911 [Water] Sampled 09/30/2011 09:15 Eastern					**MS/MSD**
SUB_SPECIALTY	10/19/2011 14:00	10	03/28/2012 08:15		1,4-Dioxane sub
1110003-14 FLC-5-MW02-092911 [Water] Sampled 09/30/2011 11:05 Eastern					
SUB_SPECIALTY	10/19/2011 14:00	10	03/28/2012 10:05		1,4-Dioxane sub

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Sample Delivery Group Assignment Form

CLIENT: Tetra Tech NUS, Inc. (T010)
PROJECT NAME: Navy Fuel Depot CTO JM46
SDG #: 1110003
MATRIX: Water

QC LEVEL: Level IV
Report Due: 10/19/2011
Client Sample Count: 12

Sample Type	Sampled	Received	Lab ID	Client ID	FLPRO	SUB_SPECIALTY	SW6010C	SW7470A	SW8082A	SW8260B	SW8270C
Client Sample	9/29/2011	10/1/2011	1110003-01	FLC-4-MW01-092911	X	X	X	X	X	X	X
Client Sample	9/29/2011	10/1/2011	1110003-02	FLC-4-MW01-092911			X	X			
Client Sample	9/29/2011	10/1/2011	1110003-03	FLC-4-MW02-092911	X	X	X	X	X	X	X
Client Sample	9/29/2011	10/1/2011	1110003-04	FLC-4-MW02-092911			X	X			
Client Sample	9/29/2011	10/1/2011	1110003-05	FLC-5-MW05-092911	X	X	X	X	X	X	X
Client Sample	9/29/2011	10/1/2011	1110003-06	FLC-5-MW05-092911			X	X			
Client Sample	9/29/2011	10/1/2011	1110003-07	FLC-5-MW04-092911	X	X	X	X	X	X	X
Client Sample	9/29/2011	10/1/2011	1110003-08	FLC-5-MW04-092911			X	X			
Client Sample	9/29/2011	10/1/2011	1110003-09	FLC-5-MW03-092911	X	X	X	X	X	X	X
Client Sample	9/29/2011	10/1/2011	1110003-10	FLC-5-MW03-092911			X	X			
Equipment Rinsate	9/29/2011	10/1/2011	1110003-11	FLC-RB02-092911	X	X	X	X	X	X	X
Equipment Rinsate	9/30/2011	10/1/2011	1110003-12	FLC-5-MW01-092911	MS/MSD	MS/MSD	MS/MSD	MS/MSD	MS/MSD	MS/MSD	MS/MSD
Client Sample	9/30/2011	10/1/2011	1110003-13	FLC-5-MW01-092911			MS/MSD	MS/MSD			
Equipment Rinsate	9/30/2011	10/1/2011	1110003-14	FLC-5-MW02-092911	X	X	X	X	X	X	X
Client Sample	9/30/2011	10/1/2011	1110003-15	FLC-5-MW02-092911			X	X			
Trip Blank	9/30/2011	10/1/2011	1110003-16	TRIP BLANK						X	

Data for SW8260B Forms

ANALYSIS DATA SHEET

FLC-4-MW01-092911

Laboratory:	Empirical Laboratories, LLC			SDG:	1110003
Client:	Tetra Tech NUS, Inc. (T010)			Project:	Navy Fuel Depot CTO JM46
Matrix:	Water	Laboratory ID:	1110003-01	File ID:	1000301.D
Sampled:	09/29/11 08:20	Prepared:	10/05/11 00:00	Analyzed:	10/05/11 12:49
Solids:		Preparation:	5030B	Dilution:	1

Batch: 1J05008 Sequence: 1J27902 Calibration: 1258002 Instrument: MS-VOA6

CAS NO.	COMPOUND	CONC. (ug/L)	DL	LOD	LOQ	Q
67-64-1	Acetone	4.56	2.50	5.00	10.0	X, I
71-43-2	Benzene		0.250	0.500	1.00	U
74-97-5	Bromochloromethane		0.500	1.00	2.00	U
75-27-4	Bromodichloromethane		0.250	0.500	1.00	U
75-25-2	Bromoform		0.250	0.500	1.00	U
74-83-9	Bromomethane		0.500	1.00	2.00	Y, U
78-93-3	2-Butanone		2.50	5.00	10.0	U
75-15-0	Carbon disulfide		0.250	0.500	1.00	U
56-23-5	Carbon tetrachloride		0.250	0.500	1.00	U
108-90-7	Chlorobenzene		0.250	0.500	1.00	U
75-00-3	Chloroethane		0.500	1.00	2.00	Y, U
67-66-3	Chloroform		0.250	0.500	1.00	U
74-87-3	Chloromethane		0.500	1.00	2.00	Y, U
110-82-7	Cyclohexane		0.500	1.00	2.00	Y, U
124-48-1	Dibromochloromethane		0.250	0.500	1.00	U
96-12-8	1,2-Dibromo-3-chloropropane		0.500	1.00	2.00	U
106-93-4	1,2-Dibromoethane (EDB)		0.250	0.500	1.00	U
95-50-1	1,2-Dichlorobenzene		0.250	0.500	1.00	U
541-73-1	1,3-Dichlorobenzene		0.250	0.500	1.00	U
106-46-7	1,4-Dichlorobenzene		0.250	0.500	1.00	U
75-71-8	Dichlorodifluoromethane		0.500	1.00	2.00	U
75-34-3	1,1-Dichloroethane		0.250	0.500	1.00	Y, U
107-06-2	1,2-Dichloroethane		0.250	0.500	1.00	U
75-35-4	1,1-Dichloroethene		0.250	0.500	1.00	U
156-59-2	cis-1,2-Dichloroethene		0.250	0.500	1.00	Y, U
156-60-5	trans-1,2-Dichloroethene		0.250	0.500	1.00	Y, U
78-87-5	1,2-Dichloropropane		0.250	0.500	1.00	U
10061-01-5	cis-1,3-Dichloropropene		0.250	0.500	1.00	U
10061-02-6	trans-1,3-Dichloropropene		0.250	0.500	1.00	U
100-41-4	Ethylbenzene		0.250	0.500	1.00	U
591-78-6	2-Hexanone		0.250	2.50	5.00	U
98-82-8	Isopropylbenzene		0.250	0.500	1.00	U
75-09-2	Methylene chloride		0.500	1.00	2.00	Y, U
79-20-9	Methyl Acetate		0.500	1.00	2.00	Y, U
108-87-2	Methylcyclohexane		0.250	0.500	1.00	U
108-10-1	4-Methyl-2-pentanone		1.25	2.50	5.00	U
1634-04-4	Methyl t-Butyl Ether		0.250	0.500	1.00	Y, U
100-42-5	Styrene		0.250	0.500	1.00	U
79-34-5	1,1,2,2-Tetrachloroethane		0.200	0.500	1.00	U

ANALYSIS DATA SHEET

FLC-4-MW01-092911

Laboratory:	Empirical Laboratories, LLC			SDG:	1110003
Client:	Tetra Tech NUS, Inc. (T010)			Project:	Navy Fuel Depot CTO JM46
Matrix:	Water	Laboratory ID:	1110003-01	File ID:	1000301.D
Sampled:	09/29/11 08:20	Prepared:	10/05/11 00:00	Analyzed:	10/05/11 12:49
Solids:		Preparation:	5030B	Dilution:	1

Batch: 1J05008 Sequence: 1J27902 Calibration: 1258002 Instrument: MS-VOA6

CAS NO.	COMPOUND	CONC. (ug/L)	DL	LOD	LOQ	Q
630-20-6	1,1,1,2-Tetrachloroethane		0.250	0.500	1.00	U
127-18-4	Tetrachloroethene		0.250	0.500	1.00	U
108-88-3	Toluene		0.250	0.500	1.00	U
87-61-6	1,2,3-Trichlorobenzene		0.250	0.500	1.00	X, U
120-82-1	1,2,4-Trichlorobenzene		0.250	0.500	1.00	U
79-00-5	1,1,2-Trichloroethane		0.250	0.500	1.00	U
71-55-6	1,1,1-Trichloroethane		0.250	0.500	1.00	U
79-01-6	Trichloroethene		0.250	0.500	1.00	U
75-69-4	Trichlorofluoromethane		0.500	1.00	2.00	U
76-13-1	1,1,2-Trichloro-1,2,2-trifluoroethane		0.250	0.500	1.00	U
75-01-4	Vinyl chloride		0.250	0.500	1.00	U
108-38-3/106-42-	m,p-Xylene		0.500	1.00	2.00	U
95-47-6	o-Xylene		0.250	0.500	1.00	U

SYSTEM MONITORING COMPOUND	ADDED (ug/L)	CONC (ug/L)	% REC	QC LIMITS	Q
Bromofluorobenzene	30.00	30.53	102	75 - 120	
Dibromofluoromethane	30.00	31.10	104	85 - 115	
1,2-Dichloroethane-d4	30.00	28.02	93.4	70 - 120	
Toluene-d8	30.00	32.45	108	85 - 120	

ANALYSIS DATA SHEET

FLC-4-MW02-092911

Laboratory: Empirical Laboratories, LLC SDG: 1110003

Client: Tetra Tech NUS, Inc. (T010) Project: Navy Fuel Depot CTO JM46

Matrix: Water Laboratory ID: 1110003-03 File ID: 1000303.D

Sampled: 09/29/11 09:30 Prepared: 10/05/11 00:00 Analyzed: 10/05/11 13:16

Solids: Preparation: 5030B Dilution: 1

Batch: 1J05008 Sequence: 1J27902 Calibration: 1258002 Instrument: MS-VOA6

CAS NO.	COMPOUND	CONC. (ug/L)	DL	LOD	LOQ	Q
67-64-1	Acetone	6.20	2.50	5.00	10.0	X, I
71-43-2	Benzene		0.250	0.500	1.00	U
74-97-5	Bromochloromethane		0.500	1.00	2.00	U
75-27-4	Bromodichloromethane		0.250	0.500	1.00	U
75-25-2	Bromoform		0.250	0.500	1.00	U
74-83-9	Bromomethane		0.500	1.00	2.00	Y, U
78-93-3	2-Butanone		2.50	5.00	10.0	U
75-15-0	Carbon disulfide		0.250	0.500	1.00	U
56-23-5	Carbon tetrachloride		0.250	0.500	1.00	U
108-90-7	Chlorobenzene		0.250	0.500	1.00	U
75-00-3	Chloroethane		0.500	1.00	2.00	Y, U
67-66-3	Chloroform		0.250	0.500	1.00	U
74-87-3	Chloromethane		0.500	1.00	2.00	Y, U
110-82-7	Cyclohexane		0.500	1.00	2.00	Y, U
124-48-1	Dibromochloromethane		0.250	0.500	1.00	U
96-12-8	1,2-Dibromo-3-chloropropane		0.500	1.00	2.00	U
106-93-4	1,2-Dibromoethane (EDB)		0.250	0.500	1.00	U
95-50-1	1,2-Dichlorobenzene		0.250	0.500	1.00	U
541-73-1	1,3-Dichlorobenzene		0.250	0.500	1.00	U
106-46-7	1,4-Dichlorobenzene		0.250	0.500	1.00	U
75-71-8	Dichlorodifluoromethane		0.500	1.00	2.00	U
75-34-3	1,1-Dichloroethane		0.250	0.500	1.00	Y, U
107-06-2	1,2-Dichloroethane		0.250	0.500	1.00	U
75-35-4	1,1-Dichloroethene		0.250	0.500	1.00	U
156-59-2	cis-1,2-Dichloroethene		0.250	0.500	1.00	Y, U
156-60-5	trans-1,2-Dichloroethene		0.250	0.500	1.00	Y, U
78-87-5	1,2-Dichloropropane		0.250	0.500	1.00	U
10061-01-5	cis-1,3-Dichloropropene		0.250	0.500	1.00	U
10061-02-6	trans-1,3-Dichloropropene		0.250	0.500	1.00	U
100-41-4	Ethylbenzene		0.250	0.500	1.00	U
591-78-6	2-Hexanone		0.250	2.50	5.00	U
98-82-8	Isopropylbenzene		0.250	0.500	1.00	U
75-09-2	Methylene chloride		0.500	1.00	2.00	Y, U
79-20-9	Methyl Acetate		0.500	1.00	2.00	Y, U
108-87-2	Methylcyclohexane		0.250	0.500	1.00	U
108-10-1	4-Methyl-2-pentanone		1.25	2.50	5.00	U
1634-04-4	Methyl t-Butyl Ether		0.250	0.500	1.00	Y, U
100-42-5	Styrene		0.250	0.500	1.00	U
79-34-5	1,1,2,2-Tetrachloroethane		0.200	0.500	1.00	U

ANALYSIS DATA SHEET

FLC-4-MW02-092911

Laboratory:	Empirical Laboratories, LLC			SDG:	1110003
Client:	Tetra Tech NUS, Inc. (T010)			Project:	Navy Fuel Depot CTO JM46
Matrix:	Water	Laboratory ID:	1110003-03	File ID:	1000303.D
Sampled:	09/29/11 09:30	Prepared:	10/05/11 00:00	Analyzed:	10/05/11 13:16
Solids:		Preparation:	5030B	Dilution:	1

Batch: 1J05008 Sequence: 1J27902 Calibration: 1258002 Instrument: MS-VOA6

CAS NO.	COMPOUND	CONC. (ug/L)	DL	LOD	LOQ	Q
630-20-6	1,1,1,2-Tetrachloroethane		0.250	0.500	1.00	U
127-18-4	Tetrachloroethene		0.250	0.500	1.00	U
108-88-3	Toluene		0.250	0.500	1.00	U
87-61-6	1,2,3-Trichlorobenzene		0.250	0.500	1.00	X, U
120-82-1	1,2,4-Trichlorobenzene		0.250	0.500	1.00	U
79-00-5	1,1,2-Trichloroethane		0.250	0.500	1.00	U
71-55-6	1,1,1-Trichloroethane		0.250	0.500	1.00	U
79-01-6	Trichloroethene		0.250	0.500	1.00	U
75-69-4	Trichlorofluoromethane		0.500	1.00	2.00	U
76-13-1	1,1,2-Trichloro-1,2,2-trifluoroethane		0.250	0.500	1.00	U
75-01-4	Vinyl chloride		0.250	0.500	1.00	U
108-38-3/106-42-	m,p-Xylene		0.500	1.00	2.00	U
95-47-6	o-Xylene		0.250	0.500	1.00	U

SYSTEM MONITORING COMPOUND	ADDED (ug/L)	CONC (ug/L)	% REC	QC LIMITS	Q
Bromofluorobenzene	30.00	30.29	101	75 - 120	
Dibromofluoromethane	30.00	30.83	103	85 - 115	
1,2-Dichloroethane-d4	30.00	27.98	93.3	70 - 120	
Toluene-d8	30.00	31.67	106	85 - 120	

ANALYSIS DATA SHEET

FLC-5-MW05-092911

Laboratory:	Empirical Laboratories, LLC			SDG:	1110003
Client:	Tetra Tech NUS, Inc. (T010)			Project:	Navy Fuel Depot CTO JM46
Matrix:	Water	Laboratory ID:	1110003-05	File ID:	1000305.D
Sampled:	09/29/11 11:25	Prepared:	10/05/11 00:00	Analyzed:	10/05/11 13:43
Solids:		Preparation:	5030B	Dilution:	1

Batch: 1J05008 Sequence: 1J27902 Calibration: 1258002 Instrument: MS-VOA6

CAS NO.	COMPOUND	CONC. (ug/L)	DL	LOD	LOQ	Q
67-64-1	Acetone		2.50	5.00	10.0	X, U
71-43-2	Benzene		0.250	0.500	1.00	U
74-97-5	Bromochloromethane		0.500	1.00	2.00	U
75-27-4	Bromodichloromethane		0.250	0.500	1.00	U
75-25-2	Bromoform		0.250	0.500	1.00	U
74-83-9	Bromomethane		0.500	1.00	2.00	Y, U
78-93-3	2-Butanone		2.50	5.00	10.0	U
75-15-0	Carbon disulfide		0.250	0.500	1.00	U
56-23-5	Carbon tetrachloride		0.250	0.500	1.00	U
108-90-7	Chlorobenzene		0.250	0.500	1.00	U
75-00-3	Chloroethane		0.500	1.00	2.00	Y, U
67-66-3	Chloroform		0.250	0.500	1.00	U
74-87-3	Chloromethane		0.500	1.00	2.00	Y, U
110-82-7	Cyclohexane		0.500	1.00	2.00	Y, U
124-48-1	Dibromochloromethane		0.250	0.500	1.00	U
96-12-8	1,2-Dibromo-3-chloropropane		0.500	1.00	2.00	U
106-93-4	1,2-Dibromoethane (EDB)		0.250	0.500	1.00	U
95-50-1	1,2-Dichlorobenzene		0.250	0.500	1.00	U
541-73-1	1,3-Dichlorobenzene		0.250	0.500	1.00	U
106-46-7	1,4-Dichlorobenzene		0.250	0.500	1.00	U
75-71-8	Dichlorodifluoromethane		0.500	1.00	2.00	U
75-34-3	1,1-Dichloroethane		0.250	0.500	1.00	Y, U
107-06-2	1,2-Dichloroethane		0.250	0.500	1.00	U
75-35-4	1,1-Dichloroethene		0.250	0.500	1.00	U
156-59-2	cis-1,2-Dichloroethene		0.250	0.500	1.00	Y, U
156-60-5	trans-1,2-Dichloroethene		0.250	0.500	1.00	Y, U
78-87-5	1,2-Dichloropropane		0.250	0.500	1.00	U
10061-01-5	cis-1,3-Dichloropropene		0.250	0.500	1.00	U
10061-02-6	trans-1,3-Dichloropropene		0.250	0.500	1.00	U
100-41-4	Ethylbenzene		0.250	0.500	1.00	U
591-78-6	2-Hexanone		0.250	2.50	5.00	U
98-82-8	Isopropylbenzene		0.250	0.500	1.00	U
75-09-2	Methylene chloride		0.500	1.00	2.00	Y, U
79-20-9	Methyl Acetate		0.500	1.00	2.00	Y, U
108-87-2	Methylcyclohexane		0.250	0.500	1.00	U
108-10-1	4-Methyl-2-pentanone		1.25	2.50	5.00	U
1634-04-4	Methyl t-Butyl Ether		0.250	0.500	1.00	Y, U
100-42-5	Styrene		0.250	0.500	1.00	U
79-34-5	1,1,2,2-Tetrachloroethane		0.200	0.500	1.00	U

ANALYSIS DATA SHEET

FLC-5-MW05-092911

Laboratory:	Empirical Laboratories, LLC			SDG:	1110003
Client:	Tetra Tech NUS, Inc. (T010)			Project:	Navy Fuel Depot CTO JM46
Matrix:	Water	Laboratory ID:	1110003-05	File ID:	1000305.D
Sampled:	09/29/11 11:25	Prepared:	10/05/11 00:00	Analyzed:	10/05/11 13:43
Solids:		Preparation:	5030B	Dilution:	1

Batch: 1J05008 Sequence: 1J27902 Calibration: 1258002 Instrument: MS-VOA6

CAS NO.	COMPOUND	CONC. (ug/L)	DL	LOD	LOQ	Q
630-20-6	1,1,1,2-Tetrachloroethane		0.250	0.500	1.00	U
127-18-4	Tetrachloroethene		0.250	0.500	1.00	U
108-88-3	Toluene		0.250	0.500	1.00	U
87-61-6	1,2,3-Trichlorobenzene		0.250	0.500	1.00	X, U
120-82-1	1,2,4-Trichlorobenzene		0.250	0.500	1.00	U
79-00-5	1,1,2-Trichloroethane		0.250	0.500	1.00	U
71-55-6	1,1,1-Trichloroethane		0.250	0.500	1.00	U
79-01-6	Trichloroethene		0.250	0.500	1.00	U
75-69-4	Trichlorofluoromethane		0.500	1.00	2.00	U
76-13-1	1,1,2-Trichloro-1,2,2-trifluoroethane		0.250	0.500	1.00	U
75-01-4	Vinyl chloride		0.250	0.500	1.00	U
108-38-3/106-42-	m,p-Xylene		0.500	1.00	2.00	U
95-47-6	o-Xylene		0.250	0.500	1.00	U

SYSTEM MONITORING COMPOUND	ADDED (ug/L)	CONC (ug/L)	% REC	QC LIMITS	Q
Bromofluorobenzene	30.00	30.55	102	75 - 120	
Dibromofluoromethane	30.00	30.63	102	85 - 115	
1,2-Dichloroethane-d4	30.00	28.94	96.5	70 - 120	
Toluene-d8	30.00	32.81	109	85 - 120	

ANALYSIS DATA SHEET

FLC-5-MW04-092911

Laboratory:	Empirical Laboratories, LLC			SDG:	1110003
Client:	Tetra Tech NUS, Inc. (T010)			Project:	Navy Fuel Depot CTO JM46
Matrix:	Water	Laboratory ID:	1110003-07	File ID:	1000307.D
Sampled:	09/29/11 12:50	Prepared:	10/05/11 00:00	Analyzed:	10/05/11 14:09
Solids:		Preparation:	5030B	Dilution:	1

Batch: 1J05008 Sequence: 1J27902 Calibration: 1258002 Instrument: MS-VOA6

CAS NO.	COMPOUND	CONC. (ug/L)	DL	LOD	LOQ	Q
67-64-1	Acetone	14.3	2.50	5.00	10.0	X
71-43-2	Benzene		0.250	0.500	1.00	U
74-97-5	Bromochloromethane		0.500	1.00	2.00	U
75-27-4	Bromodichloromethane		0.250	0.500	1.00	U
75-25-2	Bromoform		0.250	0.500	1.00	U
74-83-9	Bromomethane		0.500	1.00	2.00	Y, U
78-93-3	2-Butanone		2.50	5.00	10.0	U
75-15-0	Carbon disulfide		0.250	0.500	1.00	U
56-23-5	Carbon tetrachloride		0.250	0.500	1.00	U
108-90-7	Chlorobenzene		0.250	0.500	1.00	U
75-00-3	Chloroethane		0.500	1.00	2.00	Y, U
67-66-3	Chloroform		0.250	0.500	1.00	U
74-87-3	Chloromethane		0.500	1.00	2.00	Y, U
110-82-7	Cyclohexane		0.500	1.00	2.00	Y, U
124-48-1	Dibromochloromethane		0.250	0.500	1.00	U
96-12-8	1,2-Dibromo-3-chloropropane		0.500	1.00	2.00	U
106-93-4	1,2-Dibromoethane (EDB)		0.250	0.500	1.00	U
95-50-1	1,2-Dichlorobenzene		0.250	0.500	1.00	U
541-73-1	1,3-Dichlorobenzene		0.250	0.500	1.00	U
106-46-7	1,4-Dichlorobenzene		0.250	0.500	1.00	U
75-71-8	Dichlorodifluoromethane		0.500	1.00	2.00	U
75-34-3	1,1-Dichloroethane		0.250	0.500	1.00	Y, U
107-06-2	1,2-Dichloroethane		0.250	0.500	1.00	U
75-35-4	1,1-Dichloroethene		0.250	0.500	1.00	U
156-59-2	cis-1,2-Dichloroethene		0.250	0.500	1.00	Y, U
156-60-5	trans-1,2-Dichloroethene		0.250	0.500	1.00	Y, U
78-87-5	1,2-Dichloropropane		0.250	0.500	1.00	U
10061-01-5	cis-1,3-Dichloropropene		0.250	0.500	1.00	U
10061-02-6	trans-1,3-Dichloropropene		0.250	0.500	1.00	U
100-41-4	Ethylbenzene		0.250	0.500	1.00	U
591-78-6	2-Hexanone		0.250	2.50	5.00	U
98-82-8	Isopropylbenzene		0.250	0.500	1.00	U
75-09-2	Methylene chloride		0.500	1.00	2.00	Y, U
79-20-9	Methyl Acetate		0.500	1.00	2.00	Y, U
108-87-2	Methylcyclohexane		0.250	0.500	1.00	U
108-10-1	4-Methyl-2-pentanone		1.25	2.50	5.00	U
1634-04-4	Methyl t-Butyl Ether		0.250	0.500	1.00	Y, U
100-42-5	Styrene		0.250	0.500	1.00	U
79-34-5	1,1,2,2-Tetrachloroethane		0.200	0.500	1.00	U

ANALYSIS DATA SHEET

FLC-5-MW04-092911

Laboratory:	Empirical Laboratories, LLC			SDG:	1110003
Client:	Tetra Tech NUS, Inc. (T010)			Project:	Navy Fuel Depot CTO JM46
Matrix:	Water	Laboratory ID:	1110003-07	File ID:	1000307.D
Sampled:	09/29/11 12:50	Prepared:	10/05/11 00:00	Analyzed:	10/05/11 14:09
Solids:		Preparation:	5030B	Dilution:	1

Batch: 1J05008 Sequence: 1J27902 Calibration: 1258002 Instrument: MS-VOA6

CAS NO.	COMPOUND	CONC. (ug/L)	DL	LOD	LOQ	Q
630-20-6	1,1,1,2-Tetrachloroethane		0.250	0.500	1.00	U
127-18-4	Tetrachloroethene		0.250	0.500	1.00	U
108-88-3	Toluene		0.250	0.500	1.00	U
87-61-6	1,2,3-Trichlorobenzene		0.250	0.500	1.00	X, U
120-82-1	1,2,4-Trichlorobenzene		0.250	0.500	1.00	U
79-00-5	1,1,2-Trichloroethane		0.250	0.500	1.00	U
71-55-6	1,1,1-Trichloroethane		0.250	0.500	1.00	U
79-01-6	Trichloroethene		0.250	0.500	1.00	U
75-69-4	Trichlorofluoromethane		0.500	1.00	2.00	U
76-13-1	1,1,2-Trichloro-1,2,2-trifluoroethane		0.250	0.500	1.00	U
75-01-4	Vinyl chloride		0.250	0.500	1.00	U
108-38-3/106-42-	m,p-Xylene		0.500	1.00	2.00	U
95-47-6	o-Xylene		0.250	0.500	1.00	U

SYSTEM MONITORING COMPOUND	ADDED (ug/L)	CONC (ug/L)	% REC	QC LIMITS	Q
Bromofluorobenzene	30.00	30.30	101	75 - 120	
Dibromofluoromethane	30.00	30.28	101	85 - 115	
1,2-Dichloroethane-d4	30.00	28.22	94.1	70 - 120	
Toluene-d8	30.00	31.75	106	85 - 120	

ANALYSIS DATA SHEET

FLC-5-MW03-092911

Laboratory:	Empirical Laboratories, LLC			SDG:	1110003
Client:	Tetra Tech NUS, Inc. (T010)			Project:	Navy Fuel Depot CTO JM46
Matrix:	Water	Laboratory ID:	1110003-09	File ID:	1000309.D
Sampled:	09/29/11 14:00	Prepared:	10/05/11 00:00	Analyzed:	10/05/11 14:36
Solids:		Preparation:	5030B	Dilution:	1

Batch: 1J05008 Sequence: 1J27902 Calibration: 1258002 Instrument: MS-VOA6

CAS NO.	COMPOUND	CONC. (ug/L)	DL	LOD	LOQ	Q
67-64-1	Acetone		2.50	5.00	10.0	X, U
71-43-2	Benzene		0.250	0.500	1.00	U
74-97-5	Bromochloromethane		0.500	1.00	2.00	U
75-27-4	Bromodichloromethane		0.250	0.500	1.00	U
75-25-2	Bromoform		0.250	0.500	1.00	U
74-83-9	Bromomethane		0.500	1.00	2.00	Y, U
78-93-3	2-Butanone		2.50	5.00	10.0	U
75-15-0	Carbon disulfide		0.250	0.500	1.00	U
56-23-5	Carbon tetrachloride		0.250	0.500	1.00	U
108-90-7	Chlorobenzene		0.250	0.500	1.00	U
75-00-3	Chloroethane		0.500	1.00	2.00	Y, U
67-66-3	Chloroform		0.250	0.500	1.00	U
74-87-3	Chloromethane		0.500	1.00	2.00	Y, U
110-82-7	Cyclohexane		0.500	1.00	2.00	Y, U
124-48-1	Dibromochloromethane		0.250	0.500	1.00	U
96-12-8	1,2-Dibromo-3-chloropropane		0.500	1.00	2.00	U
106-93-4	1,2-Dibromoethane (EDB)		0.250	0.500	1.00	U
95-50-1	1,2-Dichlorobenzene		0.250	0.500	1.00	U
541-73-1	1,3-Dichlorobenzene		0.250	0.500	1.00	U
106-46-7	1,4-Dichlorobenzene		0.250	0.500	1.00	U
75-71-8	Dichlorodifluoromethane		0.500	1.00	2.00	U
75-34-3	1,1-Dichloroethane		0.250	0.500	1.00	Y, U
107-06-2	1,2-Dichloroethane		0.250	0.500	1.00	U
75-35-4	1,1-Dichloroethene		0.250	0.500	1.00	U
156-59-2	cis-1,2-Dichloroethene		0.250	0.500	1.00	Y, U
156-60-5	trans-1,2-Dichloroethene		0.250	0.500	1.00	Y, U
78-87-5	1,2-Dichloropropane		0.250	0.500	1.00	U
10061-01-5	cis-1,3-Dichloropropene		0.250	0.500	1.00	U
10061-02-6	trans-1,3-Dichloropropene		0.250	0.500	1.00	U
100-41-4	Ethylbenzene		0.250	0.500	1.00	U
591-78-6	2-Hexanone		0.250	2.50	5.00	U
98-82-8	Isopropylbenzene		0.250	0.500	1.00	U
75-09-2	Methylene chloride		0.500	1.00	2.00	Y, U
79-20-9	Methyl Acetate		0.500	1.00	2.00	Y, U
108-87-2	Methylcyclohexane		0.250	0.500	1.00	U
108-10-1	4-Methyl-2-pentanone		1.25	2.50	5.00	U
1634-04-4	Methyl t-Butyl Ether		0.250	0.500	1.00	Y, U
100-42-5	Styrene		0.250	0.500	1.00	U
79-34-5	1,1,2,2-Tetrachloroethane		0.200	0.500	1.00	U

ANALYSIS DATA SHEET

FLC-5-MW03-092911

Laboratory:	Empirical Laboratories, LLC			SDG:	1110003
Client:	Tetra Tech NUS, Inc. (T010)			Project:	Navy Fuel Depot CTO JM46
Matrix:	Water	Laboratory ID:	1110003-09	File ID:	1000309.D
Sampled:	09/29/11 14:00	Prepared:	10/05/11 00:00	Analyzed:	10/05/11 14:36
Solids:		Preparation:	5030B	Dilution:	1

Batch: 1J05008 Sequence: 1J27902 Calibration: 1258002 Instrument: MS-VOA6

CAS NO.	COMPOUND	CONC. (ug/L)	DL	LOD	LOQ	Q
630-20-6	1,1,1,2-Tetrachloroethane		0.250	0.500	1.00	U
127-18-4	Tetrachloroethene		0.250	0.500	1.00	U
108-88-3	Toluene		0.250	0.500	1.00	U
87-61-6	1,2,3-Trichlorobenzene		0.250	0.500	1.00	X, U
120-82-1	1,2,4-Trichlorobenzene		0.250	0.500	1.00	U
79-00-5	1,1,2-Trichloroethane		0.250	0.500	1.00	U
71-55-6	1,1,1-Trichloroethane		0.250	0.500	1.00	U
79-01-6	Trichloroethene		0.250	0.500	1.00	U
75-69-4	Trichlorofluoromethane		0.500	1.00	2.00	U
76-13-1	1,1,2-Trichloro-1,2,2-trifluoroethane		0.250	0.500	1.00	U
75-01-4	Vinyl chloride		0.250	0.500	1.00	U
108-38-3/106-42-	m,p-Xylene		0.500	1.00	2.00	U
95-47-6	o-Xylene		0.250	0.500	1.00	U

SYSTEM MONITORING COMPOUND	ADDED (ug/L)	CONC (ug/L)	% REC	QC LIMITS	Q
Bromofluorobenzene	30.00	30.17	101	75 - 120	
Dibromofluoromethane	30.00	30.79	103	85 - 115	
1,2-Dichloroethane-d4	30.00	28.17	93.9	70 - 120	
Toluene-d8	30.00	32.03	107	85 - 120	

ANALYSIS DATA SHEET

FLC-RB02-092911

Laboratory:	Empirical Laboratories, LLC			SDG:	1110003
Client:	Tetra Tech NUS, Inc. (T010)			Project:	Navy Fuel Depot CTO JM46
Matrix:	Water	Laboratory ID:	1110003-11	File ID:	1000311.D
Sampled:	09/29/11 14:35	Prepared:	10/05/11 00:00	Analyzed:	10/05/11 11:03
Solids:		Preparation:	5030B	Dilution:	1

Batch: 1J05008 Sequence: 1J27902 Calibration: 1258002 Instrument: MS-VOA6

CAS NO.	COMPOUND	CONC. (ug/L)	DL	LOD	LOQ	Q
67-64-1	Acetone	6.76	2.50	5.00	10.0	X, I
71-43-2	Benzene		0.250	0.500	1.00	U
74-97-5	Bromochloromethane		0.500	1.00	2.00	U
75-27-4	Bromodichloromethane		0.250	0.500	1.00	U
75-25-2	Bromoform		0.250	0.500	1.00	U
74-83-9	Bromomethane		0.500	1.00	2.00	Y, U
78-93-3	2-Butanone	8.73	2.50	5.00	10.0	I
75-15-0	Carbon disulfide		0.250	0.500	1.00	U
56-23-5	Carbon tetrachloride		0.250	0.500	1.00	U
108-90-7	Chlorobenzene		0.250	0.500	1.00	U
75-00-3	Chloroethane		0.500	1.00	2.00	Y, U
67-66-3	Chloroform		0.250	0.500	1.00	U
74-87-3	Chloromethane		0.500	1.00	2.00	Y, U
110-82-7	Cyclohexane		0.500	1.00	2.00	Y, U
124-48-1	Dibromochloromethane		0.250	0.500	1.00	U
96-12-8	1,2-Dibromo-3-chloropropane		0.500	1.00	2.00	U
106-93-4	1,2-Dibromoethane (EDB)		0.250	0.500	1.00	U
95-50-1	1,2-Dichlorobenzene		0.250	0.500	1.00	U
541-73-1	1,3-Dichlorobenzene		0.250	0.500	1.00	U
106-46-7	1,4-Dichlorobenzene		0.250	0.500	1.00	U
75-71-8	Dichlorodifluoromethane		0.500	1.00	2.00	U
75-34-3	1,1-Dichloroethane		0.250	0.500	1.00	Y, U
107-06-2	1,2-Dichloroethane		0.250	0.500	1.00	U
75-35-4	1,1-Dichloroethene		0.250	0.500	1.00	U
156-59-2	cis-1,2-Dichloroethene		0.250	0.500	1.00	Y, U
156-60-5	trans-1,2-Dichloroethene		0.250	0.500	1.00	Y, U
78-87-5	1,2-Dichloropropane		0.250	0.500	1.00	U
10061-01-5	cis-1,3-Dichloropropene		0.250	0.500	1.00	U
10061-02-6	trans-1,3-Dichloropropene		0.250	0.500	1.00	U
100-41-4	Ethylbenzene		0.250	0.500	1.00	U
591-78-6	2-Hexanone	0.368	0.250	2.50	5.00	I
98-82-8	Isopropylbenzene		0.250	0.500	1.00	U
75-09-2	Methylene chloride		0.500	1.00	2.00	Y, U
79-20-9	Methyl Acetate		0.500	1.00	2.00	Y, U
108-87-2	Methylcyclohexane		0.250	0.500	1.00	U
108-10-1	4-Methyl-2-pentanone		1.25	2.50	5.00	U
1634-04-4	Methyl t-Butyl Ether		0.250	0.500	1.00	Y, U
100-42-5	Styrene		0.250	0.500	1.00	U
79-34-5	1,1,2,2-Tetrachloroethane		0.200	0.500	1.00	U

ANALYSIS DATA SHEET

FLC-RB02-092911

Laboratory:	Empirical Laboratories, LLC			SDG:	1110003
Client:	Tetra Tech NUS, Inc. (T010)			Project:	Navy Fuel Depot CTO JM46
Matrix:	Water	Laboratory ID:	1110003-11	File ID:	1000311.D
Sampled:	09/29/11 14:35	Prepared:	10/05/11 00:00	Analyzed:	10/05/11 11:03
Solids:		Preparation:	5030B	Dilution:	1

Batch: 1J05008 Sequence: 1J27902 Calibration: 1258002 Instrument: MS-VOA6

CAS NO.	COMPOUND	CONC. (ug/L)	DL	LOD	LOQ	Q
630-20-6	1,1,1,2-Tetrachloroethane		0.250	0.500	1.00	U
127-18-4	Tetrachloroethene		0.250	0.500	1.00	U
108-88-3	Toluene		0.250	0.500	1.00	U
87-61-6	1,2,3-Trichlorobenzene		0.250	0.500	1.00	X, U
120-82-1	1,2,4-Trichlorobenzene		0.250	0.500	1.00	U
79-00-5	1,1,2-Trichloroethane		0.250	0.500	1.00	U
71-55-6	1,1,1-Trichloroethane		0.250	0.500	1.00	U
79-01-6	Trichloroethene		0.250	0.500	1.00	U
75-69-4	Trichlorofluoromethane		0.500	1.00	2.00	U
76-13-1	1,1,2-Trichloro-1,2,2-trifluoroethane		0.250	0.500	1.00	U
75-01-4	Vinyl chloride		0.250	0.500	1.00	U
108-38-3/106-42-	m,p-Xylene		0.500	1.00	2.00	U
95-47-6	o-Xylene		0.250	0.500	1.00	U

SYSTEM MONITORING COMPOUND	ADDED (ug/L)	CONC (ug/L)	% REC	QC LIMITS	Q
Bromofluorobenzene	30.00	30.05	100	75 - 120	
Dibromofluoromethane	30.00	30.43	101	85 - 115	
1,2-Dichloroethane-d4	30.00	29.39	98.0	70 - 120	
Toluene-d8	30.00	31.84	106	85 - 120	

ANALYSIS DATA SHEET

FLC-5-MW01-092911

Laboratory:	Empirical Laboratories, LLC			SDG:	1110003
Client:	Tetra Tech NUS, Inc. (T010)			Project:	Navy Fuel Depot CTO JM46
Matrix:	Water	Laboratory ID:	1110003-12	File ID:	1000312.D
Sampled:	09/30/11 09:15	Prepared:	10/05/11 00:00	Analyzed:	10/05/11 15:03
Solids:		Preparation:	5030B	Dilution:	1

Batch: 1J05008 Sequence: 1J27902 Calibration: 1258002 Instrument: MS-VOA6

CAS NO.	COMPOUND	CONC. (ug/L)	DL	LOD	LOQ	Q
67-64-1	Acetone	6.44	2.50	5.00	10.0	X, I
71-43-2	Benzene		0.250	0.500	1.00	U
74-97-5	Bromochloromethane		0.500	1.00	2.00	U
75-27-4	Bromodichloromethane		0.250	0.500	1.00	U
75-25-2	Bromoform		0.250	0.500	1.00	U
74-83-9	Bromomethane		0.500	1.00	2.00	N, Y, U
78-93-3	2-Butanone		2.50	5.00	10.0	U
75-15-0	Carbon disulfide		0.250	0.500	1.00	U
56-23-5	Carbon tetrachloride		0.250	0.500	1.00	U
108-90-7	Chlorobenzene		0.250	0.500	1.00	U
75-00-3	Chloroethane		0.500	1.00	2.00	N, Y, U
67-66-3	Chloroform		0.250	0.500	1.00	U
74-87-3	Chloromethane		0.500	1.00	2.00	Y, U
110-82-7	Cyclohexane		0.500	1.00	2.00	Y, U
124-48-1	Dibromochloromethane		0.250	0.500	1.00	U
96-12-8	1,2-Dibromo-3-chloropropane		0.500	1.00	2.00	U
106-93-4	1,2-Dibromoethane (EDB)		0.250	0.500	1.00	U
95-50-1	1,2-Dichlorobenzene		0.250	0.500	1.00	U
541-73-1	1,3-Dichlorobenzene		0.250	0.500	1.00	U
106-46-7	1,4-Dichlorobenzene		0.250	0.500	1.00	U
75-71-8	Dichlorodifluoromethane		0.500	1.00	2.00	U
75-34-3	1,1-Dichloroethane		0.250	0.500	1.00	Y, U
107-06-2	1,2-Dichloroethane		0.250	0.500	1.00	U
75-35-4	1,1-Dichloroethene		0.250	0.500	1.00	U
156-59-2	cis-1,2-Dichloroethene		0.250	0.500	1.00	Y, U
156-60-5	trans-1,2-Dichloroethene		0.250	0.500	1.00	Y, U
78-87-5	1,2-Dichloropropane		0.250	0.500	1.00	U
10061-01-5	cis-1,3-Dichloropropene		0.250	0.500	1.00	U
10061-02-6	trans-1,3-Dichloropropene		0.250	0.500	1.00	U
100-41-4	Ethylbenzene	0.928	0.250	0.500	1.00	I
591-78-6	2-Hexanone		0.250	2.50	5.00	U
98-82-8	Isopropylbenzene		0.250	0.500	1.00	U
75-09-2	Methylene chloride		0.500	1.00	2.00	Y, U
79-20-9	Methyl Acetate		0.500	1.00	2.00	Y, U
108-87-2	Methylcyclohexane		0.250	0.500	1.00	U
108-10-1	4-Methyl-2-pentanone		1.25	2.50	5.00	U
1634-04-4	Methyl t-Butyl Ether		0.250	0.500	1.00	Y, U
100-42-5	Styrene		0.250	0.500	1.00	U
79-34-5	1,1,2,2-Tetrachloroethane		0.200	0.500	1.00	U

ANALYSIS DATA SHEET

FLC-5-MW01-092911

Laboratory:	Empirical Laboratories, LLC			SDG:	1110003
Client:	Tetra Tech NUS, Inc. (T010)			Project:	Navy Fuel Depot CTO JM46
Matrix:	Water	Laboratory ID:	1110003-12	File ID:	1000312.D
Sampled:	09/30/11 09:15	Prepared:	10/05/11 00:00	Analyzed:	10/05/11 15:03
Solids:		Preparation:	5030B	Dilution:	1

Batch: 1J05008 Sequence: 1J27902 Calibration: 1258002 Instrument: MS-VOA6

CAS NO.	COMPOUND	CONC. (ug/L)	DL	LOD	LOQ	Q
630-20-6	1,1,1,2-Tetrachloroethane		0.250	0.500	1.00	U
127-18-4	Tetrachloroethene		0.250	0.500	1.00	U
108-88-3	Toluene	0.904	0.250	0.500	1.00	I
87-61-6	1,2,3-Trichlorobenzene		0.250	0.500	1.00	X, U
120-82-1	1,2,4-Trichlorobenzene		0.250	0.500	1.00	U
79-00-5	1,1,2-Trichloroethane		0.250	0.500	1.00	U
71-55-6	1,1,1-Trichloroethane		0.250	0.500	1.00	U
79-01-6	Trichloroethene		0.250	0.500	1.00	U
75-69-4	Trichlorofluoromethane		0.500	1.00	2.00	U
76-13-1	1,1,2-Trichloro-1,2,2-trifluoroethane		0.250	0.500	1.00	U
75-01-4	Vinyl chloride		0.250	0.500	1.00	U
108-38-3/106-42-	m,p-Xylene	1.99	0.500	1.00	2.00	I
95-47-6	o-Xylene	2.06	0.250	0.500	1.00	

SYSTEM MONITORING COMPOUND	ADDED (ug/L)	CONC (ug/L)	% REC	QC LIMITS	Q
Bromofluorobenzene	30.00	30.37	101	75 - 120	
Dibromofluoromethane	30.00	30.84	103	85 - 115	
1,2-Dichloroethane-d4	30.00	27.95	93.2	70 - 120	
Toluene-d8	30.00	32.13	107	85 - 120	

ANALYSIS DATA SHEET

FLC-5-MW02-092911

Laboratory:	Empirical Laboratories, LLC			SDG:	1110003
Client:	Tetra Tech NUS, Inc. (T010)			Project:	Navy Fuel Depot CTO JM46
Matrix:	Water	Laboratory ID:	1110003-14	File ID:	1000314.D
Sampled:	09/30/11 11:05	Prepared:	10/05/11 00:00	Analyzed:	10/05/11 15:29
Solids:		Preparation:	5030B	Dilution:	1

Batch: 1J05008 Sequence: 1J27902 Calibration: 1258002 Instrument: MS-VOA6

CAS NO.	COMPOUND	CONC. (ug/L)	DL	LOD	LOQ	Q
67-64-1	Acetone	6.99	2.50	5.00	10.0	X, I
71-43-2	Benzene		0.250	0.500	1.00	U
74-97-5	Bromochloromethane		0.500	1.00	2.00	U
75-27-4	Bromodichloromethane		0.250	0.500	1.00	U
75-25-2	Bromoform		0.250	0.500	1.00	U
74-83-9	Bromomethane		0.500	1.00	2.00	Y, U
78-93-3	2-Butanone		2.50	5.00	10.0	U
75-15-0	Carbon disulfide	0.271	0.250	0.500	1.00	I
56-23-5	Carbon tetrachloride		0.250	0.500	1.00	U
108-90-7	Chlorobenzene		0.250	0.500	1.00	U
75-00-3	Chloroethane		0.500	1.00	2.00	Y, U
67-66-3	Chloroform		0.250	0.500	1.00	U
74-87-3	Chloromethane		0.500	1.00	2.00	Y, U
110-82-7	Cyclohexane		0.500	1.00	2.00	Y, U
124-48-1	Dibromochloromethane		0.250	0.500	1.00	U
96-12-8	1,2-Dibromo-3-chloropropane		0.500	1.00	2.00	U
106-93-4	1,2-Dibromoethane (EDB)		0.250	0.500	1.00	U
95-50-1	1,2-Dichlorobenzene		0.250	0.500	1.00	U
541-73-1	1,3-Dichlorobenzene		0.250	0.500	1.00	U
106-46-7	1,4-Dichlorobenzene		0.250	0.500	1.00	U
75-71-8	Dichlorodifluoromethane		0.500	1.00	2.00	U
75-34-3	1,1-Dichloroethane		0.250	0.500	1.00	Y, U
107-06-2	1,2-Dichloroethane		0.250	0.500	1.00	U
75-35-4	1,1-Dichloroethene		0.250	0.500	1.00	U
156-59-2	cis-1,2-Dichloroethene		0.250	0.500	1.00	Y, U
156-60-5	trans-1,2-Dichloroethene		0.250	0.500	1.00	Y, U
78-87-5	1,2-Dichloropropane		0.250	0.500	1.00	U
10061-01-5	cis-1,3-Dichloropropene		0.250	0.500	1.00	U
10061-02-6	trans-1,3-Dichloropropene		0.250	0.500	1.00	U
100-41-4	Ethylbenzene		0.250	0.500	1.00	U
591-78-6	2-Hexanone		0.250	2.50	5.00	U
98-82-8	Isopropylbenzene		0.250	0.500	1.00	U
75-09-2	Methylene chloride		0.500	1.00	2.00	Y, U
79-20-9	Methyl Acetate		0.500	1.00	2.00	Y, U
108-87-2	Methylcyclohexane		0.250	0.500	1.00	U
108-10-1	4-Methyl-2-pentanone		1.25	2.50	5.00	U
1634-04-4	Methyl t-Butyl Ether		0.250	0.500	1.00	Y, U
100-42-5	Styrene		0.250	0.500	1.00	U
79-34-5	1,1,2,2-Tetrachloroethane		0.200	0.500	1.00	U

ANALYSIS DATA SHEET

FLC-5-MW02-092911

Laboratory:	Empirical Laboratories, LLC			SDG:	1110003
Client:	Tetra Tech NUS, Inc. (T010)			Project:	Navy Fuel Depot CTO JM46
Matrix:	Water	Laboratory ID:	1110003-14	File ID:	1000314.D
Sampled:	09/30/11 11:05	Prepared:	10/05/11 00:00	Analyzed:	10/05/11 15:29
Solids:		Preparation:	5030B	Dilution:	1

Batch: 1J05008 Sequence: 1J27902 Calibration: 1258002 Instrument: MS-VOA6

CAS NO.	COMPOUND	CONC. (ug/L)	DL	LOD	LOQ	Q
630-20-6	1,1,1,2-Tetrachloroethane		0.250	0.500	1.00	U
127-18-4	Tetrachloroethene		0.250	0.500	1.00	U
108-88-3	Toluene		0.250	0.500	1.00	U
87-61-6	1,2,3-Trichlorobenzene		0.250	0.500	1.00	X, U
120-82-1	1,2,4-Trichlorobenzene		0.250	0.500	1.00	U
79-00-5	1,1,2-Trichloroethane		0.250	0.500	1.00	U
71-55-6	1,1,1-Trichloroethane		0.250	0.500	1.00	U
79-01-6	Trichloroethene		0.250	0.500	1.00	U
75-69-4	Trichlorofluoromethane		0.500	1.00	2.00	U
76-13-1	1,1,2-Trichloro-1,2,2-trifluoroethane		0.250	0.500	1.00	U
75-01-4	Vinyl chloride		0.250	0.500	1.00	U
108-38-3/106-42-	m,p-Xylene		0.500	1.00	2.00	U
95-47-6	o-Xylene		0.250	0.500	1.00	U

SYSTEM MONITORING COMPOUND	ADDED (ug/L)	CONC (ug/L)	% REC	QC LIMITS	Q
Bromofluorobenzene	30.00	30.29	101	75 - 120	
Dibromofluoromethane	30.00	30.46	102	85 - 115	
1,2-Dichloroethane-d4	30.00	27.31	91.0	70 - 120	
Toluene-d8	30.00	31.94	106	85 - 120	

ANALYSIS DATA SHEET

TRIP BLANK

Laboratory:	Empirical Laboratories, LLC			SDG:	1110003
Client:	Tetra Tech NUS, Inc. (T010)			Project:	Navy Fuel Depot CTO JM46
Matrix:	Water	Laboratory ID:	1110003-16	File ID:	1000316.D
Sampled:	09/30/11 00:00	Prepared:	10/05/11 00:00	Analyzed:	10/05/11 11:29
Solids:		Preparation:	5030B	Dilution:	1

Batch: 1J05008 Sequence: 1J27902 Calibration: 1258002 Instrument: MS-VOA6

CAS NO.	COMPOUND	CONC. (ug/L)	DL	LOD	LOQ	Q
67-64-1	Acetone		2.50	5.00	10.0	X, U
71-43-2	Benzene		0.250	0.500	1.00	U
74-97-5	Bromochloromethane		0.500	1.00	2.00	U
75-27-4	Bromodichloromethane		0.250	0.500	1.00	U
75-25-2	Bromoform		0.250	0.500	1.00	U
74-83-9	Bromomethane		0.500	1.00	2.00	Y, U
78-93-3	2-Butanone		2.50	5.00	10.0	U
75-15-0	Carbon disulfide		0.250	0.500	1.00	U
56-23-5	Carbon tetrachloride		0.250	0.500	1.00	U
108-90-7	Chlorobenzene		0.250	0.500	1.00	U
75-00-3	Chloroethane		0.500	1.00	2.00	Y, U
67-66-3	Chloroform		0.250	0.500	1.00	U
74-87-3	Chloromethane		0.500	1.00	2.00	Y, U
110-82-7	Cyclohexane		0.500	1.00	2.00	Y, U
124-48-1	Dibromochloromethane		0.250	0.500	1.00	U
96-12-8	1,2-Dibromo-3-chloropropane		0.500	1.00	2.00	U
106-93-4	1,2-Dibromoethane (EDB)		0.250	0.500	1.00	U
95-50-1	1,2-Dichlorobenzene		0.250	0.500	1.00	U
541-73-1	1,3-Dichlorobenzene		0.250	0.500	1.00	U
106-46-7	1,4-Dichlorobenzene		0.250	0.500	1.00	U
75-71-8	Dichlorodifluoromethane		0.500	1.00	2.00	U
75-34-3	1,1-Dichloroethane		0.250	0.500	1.00	Y, U
107-06-2	1,2-Dichloroethane		0.250	0.500	1.00	U
75-35-4	1,1-Dichloroethene		0.250	0.500	1.00	U
156-59-2	cis-1,2-Dichloroethene		0.250	0.500	1.00	Y, U
156-60-5	trans-1,2-Dichloroethene		0.250	0.500	1.00	Y, U
78-87-5	1,2-Dichloropropane		0.250	0.500	1.00	U
10061-01-5	cis-1,3-Dichloropropene		0.250	0.500	1.00	U
10061-02-6	trans-1,3-Dichloropropene		0.250	0.500	1.00	U
100-41-4	Ethylbenzene		0.250	0.500	1.00	U
591-78-6	2-Hexanone		0.250	2.50	5.00	U
98-82-8	Isopropylbenzene		0.250	0.500	1.00	U
75-09-2	Methylene chloride		0.500	1.00	2.00	Y, U
79-20-9	Methyl Acetate		0.500	1.00	2.00	Y, U
108-87-2	Methylcyclohexane		0.250	0.500	1.00	U
108-10-1	4-Methyl-2-pentanone		1.25	2.50	5.00	U
1634-04-4	Methyl t-Butyl Ether		0.250	0.500	1.00	Y, U
100-42-5	Styrene		0.250	0.500	1.00	U
79-34-5	1,1,2,2-Tetrachloroethane		0.200	0.500	1.00	U

ANALYSIS DATA SHEET

TRIP BLANK

Laboratory:	Empirical Laboratories, LLC			SDG:	1110003
Client:	Tetra Tech NUS, Inc. (T010)			Project:	Navy Fuel Depot CTO JM46
Matrix:	Water	Laboratory ID:	1110003-16	File ID:	1000316.D
Sampled:	09/30/11 00:00	Prepared:	10/05/11 00:00	Analyzed:	10/05/11 11:29
Solids:		Preparation:	5030B	Dilution:	1

Batch: 1J05008 Sequence: 1J27902 Calibration: 1258002 Instrument: MS-VOA6

CAS NO.	COMPOUND	CONC. (ug/L)	DL	LOD	LOQ	Q
630-20-6	1,1,1,2-Tetrachloroethane		0.250	0.500	1.00	U
127-18-4	Tetrachloroethene		0.250	0.500	1.00	U
108-88-3	Toluene		0.250	0.500	1.00	U
87-61-6	1,2,3-Trichlorobenzene		0.250	0.500	1.00	X, U
120-82-1	1,2,4-Trichlorobenzene		0.250	0.500	1.00	U
79-00-5	1,1,2-Trichloroethane		0.250	0.500	1.00	U
71-55-6	1,1,1-Trichloroethane		0.250	0.500	1.00	U
79-01-6	Trichloroethene		0.250	0.500	1.00	U
75-69-4	Trichlorofluoromethane		0.500	1.00	2.00	U
76-13-1	1,1,2-Trichloro-1,2,2-trifluoroethane		0.250	0.500	1.00	U
75-01-4	Vinyl chloride		0.250	0.500	1.00	U
108-38-3/106-42-	m,p-Xylene		0.500	1.00	2.00	U
95-47-6	o-Xylene		0.250	0.500	1.00	U

SYSTEM MONITORING COMPOUND	ADDED (ug/L)	CONC (ug/L)	% REC	QC LIMITS	Q
Bromofluorobenzene	30.00	30.44	101	75 - 120	
Dibromofluoromethane	30.00	30.80	103	85 - 115	
1,2-Dichloroethane-d4	30.00	29.39	98.0	70 - 120	
Toluene-d8	30.00	31.57	105	85 - 120	

SURROGATE STANDARD RECOVERY AND RT SUMMARY

SW8260B

Laboratory:	Empirical Laboratories, LLC	SDG:	1110003
Client:	Tetra Tech NUS, Inc. (T010)	Project:	Navy Fuel Depot CTO JM46
Sequence:	1J27902	Instrument:	MS-VOA6
		Calibration:	1258002

Surrogate Compound	Spike Level	% Recovery	Recovery Limits	RT	CCV RT	RT Diff	RT Diff Limit	Q
Calibration Check (1J27902-CCV1) ug/L				Lab File ID: 1005CCV1.D		Analyzed: 10/05/11 07:58		
Bromofluorobenzene	30.00	106	80 - 120	12.213	12.213	0.0000	+/-1.000	
Dibromofluoromethane	30.00	99.2	80 - 120	6.899	6.899	0.0000	+/-1.000	
1,2-Dichloroethane-d4	30.00	97.2	80 - 120	7.391	7.391	0.0000	+/-1.000	
Toluene-d8	30.00	109	80 - 120	9.595	9.595	0.0000	+/-1.000	
LCS (1J05008-BS1) ug/L				Lab File ID: 1005LCS1.D		Analyzed: 10/05/11 08:24		
Bromofluorobenzene	30.00	101	75 - 120	12.208	12.213	-0.0050	+/-1.000	
Dibromofluoromethane	30.00	97.4	85 - 115	6.894	6.899	-0.0050	+/-1.000	
1,2-Dichloroethane-d4	30.00	94.3	70 - 120	7.386	7.391	-0.0050	+/-1.000	
Toluene-d8	30.00	107	85 - 120	9.59	9.595	-0.0050	+/-1.000	
Blank (1J05008-BLK1) ug/L				Lab File ID: 1005BLK1.D		Analyzed: 10/05/11 09:43		
Bromofluorobenzene	30.00	101	75 - 120	12.207	12.213	-0.0060	+/-1.000	
Dibromofluoromethane	30.00	103	85 - 115	6.892	6.899	-0.0070	+/-1.000	
1,2-Dichloroethane-d4	30.00	99.7	70 - 120	7.394	7.391	0.0030	+/-1.000	
Toluene-d8	30.00	104	85 - 120	9.599	9.595	0.0040	+/-1.000	
FLC-RB02-092911 (1110003-11) ug/L				Lab File ID: 1000311.D		Analyzed: 10/05/11 11:03		
Bromofluorobenzene	30.00	100	75 - 120	12.209	12.213	-0.0040	+/-1.000	
Dibromofluoromethane	30.00	101	85 - 115	6.894	6.899	-0.0050	+/-1.000	
1,2-Dichloroethane-d4	30.00	98.0	70 - 120	7.396	7.391	0.0050	+/-1.000	
Toluene-d8	30.00	106	85 - 120	9.591	9.595	-0.0040	+/-1.000	
TRIP BLANK (1110003-16) ug/L				Lab File ID: 1000316.D		Analyzed: 10/05/11 11:29		
Bromofluorobenzene	30.00	101	75 - 120	12.207	12.213	-0.0060	+/-1.000	
Dibromofluoromethane	30.00	103	85 - 115	6.902	6.899	0.0030	+/-1.000	
1,2-Dichloroethane-d4	30.00	98.0	70 - 120	7.394	7.391	0.0030	+/-1.000	
Toluene-d8	30.00	105	85 - 120	9.598	9.595	0.0030	+/-1.000	
FLC-4-MW01-092911 (1110003-01) ug/L				Lab File ID: 1000301.D		Analyzed: 10/05/11 12:49		
Bromofluorobenzene	30.00	102	75 - 120	12.212	12.213	-0.0010	+/-1.000	
Dibromofluoromethane	30.00	104	85 - 115	6.897	6.899	-0.0020	+/-1.000	
1,2-Dichloroethane-d4	30.00	93.4	70 - 120	7.389	7.391	-0.0020	+/-1.000	
Toluene-d8	30.00	108	85 - 120	9.594	9.595	-0.0010	+/-1.000	
FLC-4-MW02-092911 (1110003-03) ug/L				Lab File ID: 1000303.D		Analyzed: 10/05/11 13:16		
Bromofluorobenzene	30.00	101	75 - 120	12.213	12.213	0.0000	+/-1.000	
Dibromofluoromethane	30.00	103	85 - 115	6.898	6.899	-0.0010	+/-1.000	
1,2-Dichloroethane-d4	30.00	93.3	70 - 120	7.391	7.391	0.0000	+/-1.000	
Toluene-d8	30.00	106	85 - 120	9.595	9.595	0.0000	+/-1.000	

SURROGATE STANDARD RECOVERY AND RT SUMMARY

SW8260B

Laboratory: Empirical Laboratories, LLC
SDG: 1110003
Client: Tetra Tech NUS, Inc. (T010)
Project: Navy Fuel Depot CTO JM46
Sequence: 1J27902
Instrument: MS-VOA6
Calibration: 1258002

Surrogate Compound	Spike Level	% Recovery	Recovery Limits	RT	CCV RT	RT Diff	RT Diff Limit	Q
FLC-5-MW05-092911 (1110003-05) ug/L				Lab File ID: 1000305.D		Analyzed: 10/05/11 13:43		
Bromofluorobenzene	30.00	102	75 - 120	12.212	12.213	-0.0010	+/-1.000	
Dibromofluoromethane	30.00	102	85 - 115	6.897	6.899	-0.0020	+/-1.000	
1,2-Dichloroethane-d4	30.00	96.5	70 - 120	7.389	7.391	-0.0020	+/-1.000	
Toluene-d8	30.00	109	85 - 120	9.594	9.595	-0.0010	+/-1.000	
FLC-5-MW04-092911 (1110003-07) ug/L				Lab File ID: 1000307.D		Analyzed: 10/05/11 14:09		
Bromofluorobenzene	30.00	101	75 - 120	12.209	12.213	-0.0040	+/-1.000	
Dibromofluoromethane	30.00	101	85 - 115	6.904	6.899	0.0050	+/-1.000	
1,2-Dichloroethane-d4	30.00	94.1	70 - 120	7.396	7.391	0.0050	+/-1.000	
Toluene-d8	30.00	106	85 - 120	9.601	9.595	0.0060	+/-1.000	
FLC-5-MW03-092911 (1110003-09) ug/L				Lab File ID: 1000309.D		Analyzed: 10/05/11 14:36		
Bromofluorobenzene	30.00	101	75 - 120	12.208	12.213	-0.0050	+/-1.000	
Dibromofluoromethane	30.00	103	85 - 115	6.903	6.899	0.0040	+/-1.000	
1,2-Dichloroethane-d4	30.00	93.9	70 - 120	7.395	7.391	0.0040	+/-1.000	
Toluene-d8	30.00	107	85 - 120	9.6	9.595	0.0050	+/-1.000	
FLC-5-MW01-092911 (1110003-12) ug/L				Lab File ID: 1000312.D		Analyzed: 10/05/11 15:03		
Bromofluorobenzene	30.00	101	75 - 120	12.208	12.213	-0.0050	+/-1.000	
Dibromofluoromethane	30.00	103	85 - 115	6.903	6.899	0.0040	+/-1.000	
1,2-Dichloroethane-d4	30.00	93.2	70 - 120	7.395	7.391	0.0040	+/-1.000	
Toluene-d8	30.00	107	85 - 120	9.6	9.595	0.0050	+/-1.000	
FLC-5-MW02-092911 (1110003-14) ug/L				Lab File ID: 1000314.D		Analyzed: 10/05/11 15:29		
Bromofluorobenzene	30.00	101	75 - 120	12.207	12.213	-0.0060	+/-1.000	
Dibromofluoromethane	30.00	102	85 - 115	6.892	6.899	-0.0070	+/-1.000	
1,2-Dichloroethane-d4	30.00	91.0	70 - 120	7.394	7.391	0.0030	+/-1.000	
Toluene-d8	30.00	106	85 - 120	9.599	9.595	0.0040	+/-1.000	
Matrix Spike (1J05008-MS1) ug/L				Lab File ID: 1000312M.D		Analyzed: 10/05/11 18:09		
Bromofluorobenzene	30.00	104	75 - 120	12.208	12.213	-0.0050	+/-1.000	
Dibromofluoromethane	30.00	101	85 - 115	6.903	6.899	0.0040	+/-1.000	
1,2-Dichloroethane-d4	30.00	92.3	70 - 120	7.405	7.391	0.0140	+/-1.000	
Toluene-d8	30.00	101	85 - 120	9.6	9.595	0.0050	+/-1.000	
Matrix Spike Dup (1J05008-MSD1) ug/L				Lab File ID: 1000312S.D		Analyzed: 10/05/11 18:36		
Bromofluorobenzene	30.00	103	75 - 120	12.213	12.213	0.0000	+/-1.000	
Dibromofluoromethane	30.00	98.3	85 - 115	6.898	6.899	-0.0010	+/-1.000	
1,2-Dichloroethane-d4	30.00	94.4	70 - 120	7.4	7.391	0.0090	+/-1.000	
Toluene-d8	30.00	107	85 - 120	9.595	9.595	0.0000	+/-1.000	

LCS / LCS DUPLICATE RECOVERY

SW8260B

Laboratory:	Empirical Laboratories, LLC	SDG:	1110003
Client:	Tetra Tech NUS, Inc. (T010)	Project:	Navy Fuel Depot CTO JM46
Matrix:	Water		
Batch:	1J05008	Laboratory ID:	1J05008-BS1
Preparation:	5030B	Initial/Final:	5 mL / 5 mL

ANALYTE	SPIKE ADDED (ug/L)	LCS CONCENTRATION (ug/L)	LCS % REC.	QC LIMITS REC.
Acetone	100.0	67.8	67.8	40 - 140
Benzene	50.00	40.2	80.3	80 - 120
Bromochloromethane	50.00	43.3	86.5	65 - 130
Bromodichloromethane	50.00	42.1	84.1	75 - 120
Bromoform	50.00	51.3	103	70 - 130
Bromomethane	50.00	20.0	39.9	30 - 145
2-Butanone	100.0	69.7	69.7	30 - 150
Carbon disulfide	50.00	35.1	70.1	35 - 160
Carbon tetrachloride	50.00	46.9	93.8	65 - 140
Chlorobenzene	50.00	46.0	92.1	80 - 120
Chloroethane	50.00	44.1	88.1	60 - 135
Chloroform	50.00	42.5	84.9	65 - 135
Chloromethane	50.00	32.0	64.0	40 - 125
Cyclohexane	50.00	34.3	68.6	60 - 130
Dibromochloromethane	50.00	45.4	90.8	60 - 135
1,2-Dibromo-3-chloropropane	50.00	48.6	97.1	50 - 130
1,2-Dibromoethane (EDB)	50.00	44.7	89.3	80 - 120
1,2-Dichlorobenzene	50.00	49.1	98.2	70 - 120
1,3-Dichlorobenzene	50.00	48.8	97.7	75 - 125
1,4-Dichlorobenzene	50.00	49.1	98.1	75 - 125
Dichlorodifluoromethane	50.00	44.7	89.4	30 - 155
1,1-Dichloroethane	50.00	41.5	82.9	70 - 135
1,2-Dichloroethane	50.00	44.6	89.2	70 - 130
1,1-Dichloroethene	50.00	39.7	79.4	70 - 130
cis-1,2-Dichloroethene	50.00	40.6	81.3	70 - 125
trans-1,2-Dichloroethene	50.00	40.0	79.9	60 - 140
1,2-Dichloropropane	50.00	39.7	79.3	75 - 125
cis-1,3-Dichloropropene	50.00	42.9	85.8	70 - 130
trans-1,3-Dichloropropene	50.00	39.0	78.1	55 - 140
Ethylbenzene	50.00	45.1	90.2	75 - 125

LCS / LCS DUPLICATE RECOVERY

SW8260B

Laboratory:	Empirical Laboratories, LLC	SDG:	1110003
Client:	Tetra Tech NUS, Inc. (T010)	Project:	Navy Fuel Depot CTO JM46
Matrix:	Water		
Batch:	1J05008	Laboratory ID:	1J05008-BS1
Preparation:	5030B	Initial/Final:	5 mL / 5 mL

ANALYTE	SPIKE ADDED (ug/L)	LCS CONCENTRATION (ug/L)	LCS % REC.	QC LIMITS REC.
2-Hexanone	100.0	77.0	77.0	55 - 130
Isopropylbenzene	50.00	44.5	89.0	75 - 125
Methylene chloride	50.00	37.6	75.1	55 - 140
Methyl Acetate	50.00	36.6	73.2	55 - 150
Methylcyclohexane	50.00	39.8	79.6	60 - 125
4-Methyl-2-pentanone	100.0	77.0	77.0	60 - 135
Methyl t-Butyl Ether	50.00	39.4	78.9	65 - 125
Styrene	50.00	45.0	89.9	65 - 135
1,1,2,2-Tetrachloroethane	50.00	45.6	91.2	65 - 130
1,1,1,2-Tetrachloroethane	50.00	46.4	92.8	80 - 130
Tetrachloroethene	50.00	46.3	92.6	45 - 150
Toluene	50.00	43.4	86.7	75 - 120
1,2,3-Trichlorobenzene	50.00	60.7	121	55 - 140
1,2,4-Trichlorobenzene	50.00	57.3	115	65 - 135
1,1,2-Trichloroethane	50.00	41.9	83.7	75 - 125
1,1,1-Trichloroethane	50.00	46.8	93.6	65 - 130
Trichloroethene	50.00	43.1	86.3	70 - 125
Trichlorofluoromethane	50.00	46.5	93.0	60 - 145
1,1,2-Trichloro-1,2,2-trifluoroethane	50.00	40.1	80.3	60 - 130
Vinyl chloride	50.00	50.7	101	50 - 145
m,p-Xylene	100.0	92.5	92.5	75 - 130
o-Xylene	50.00	44.6	89.2	80 - 120

MATRIX SPIKE / MATRIX SPIKE DUPLICATE RECOVERY

SW8260B

FLC-5-MW01-092911

Laboratory: Empirical Laboratories, LLC

SDG: 1110003

Client: Tetra Tech NUS, Inc. (T010)

Project: Navy Fuel Depot CTO JM46

Matrix: Water

Batch: 1J05008

% Solids:

Source Sample Name: **1110003-12**

ANALYTE	SPIKE ADDED (ug/L)	SAMPLE CONCENTRATION (ug/L)	MS CONCENTRATION (ug/L)	MS % REC.	Q	QC LIMITS REC.
Acetone	100.0	6.44	82.9	76.4		40 - 140
Benzene	50.00	ND	42.6	85.2		80 - 120
Bromochloromethane	50.00	ND	45.2	90.3		65 - 130
Bromodichloromethane	50.00	ND	43.5	87.0		75 - 120
Bromoform	50.00	ND	48.5	97.1		70 - 130
Bromomethane	50.00	ND	15.3	30.6		30 - 145
2-Butanone	100.0	ND	70.9	70.9		30 - 150
Carbon disulfide	50.00	ND	43.0	86.0		35 - 160
Carbon tetrachloride	50.00	ND	52.6	105		65 - 140
Chlorobenzene	50.00	ND	46.9	93.8		80 - 120
Chloroethane	50.00	ND	53.1	106		60 - 135
Chloroform	50.00	ND	46.3	92.7		65 - 135
Chloromethane	50.00	ND	37.6	75.3		40 - 125
Cyclohexane	50.00	ND	35.1	70.1		60 - 130
Dibromochloromethane	50.00	ND	44.8	89.5		60 - 135
1,2-Dibromo-3-chloropropane	50.00	ND	48.5	97.1		50 - 130
1,2-Dibromoethane (EDB)	50.00	ND	43.9	87.8		80 - 120
1,2-Dichlorobenzene	50.00	ND	48.1	96.2		70 - 120
1,3-Dichlorobenzene	50.00	ND	47.9	95.8		75 - 125
1,4-Dichlorobenzene	50.00	ND	48.4	96.8		75 - 125
Dichlorodifluoromethane	50.00	ND	50.1	100		30 - 155
1,1-Dichloroethane	50.00	ND	43.1	86.1		70 - 135
1,2-Dichloroethane	50.00	ND	47.5	95.0		70 - 130
1,1-Dichloroethene	50.00	ND	41.4	82.7		70 - 130
cis-1,2-Dichloroethene	50.00	ND	43.7	87.4		70 - 125
trans-1,2-Dichloroethene	50.00	ND	41.4	82.9		60 - 140
1,2-Dichloropropane	50.00	ND	41.0	82.1		75 - 125
cis-1,3-Dichloropropene	50.00	ND	42.5	85.0		70 - 130
trans-1,3-Dichloropropene	50.00	ND	37.2	74.4		55 - 140
Ethylbenzene	50.00	0.928	48.3	94.8		75 - 125
2-Hexanone	100.0	ND	75.5	75.5		55 - 130
Isopropylbenzene	50.00	ND	45.4	90.8		75 - 125

MATRIX SPIKE / MATRIX SPIKE DUPLICATE RECOVERY

SW8260B

FLC-5-MW01-092911

Laboratory: Empirical Laboratories, LLC

SDG: 1110003

Client: Tetra Tech NUS, Inc. (T010)

Project: Navy Fuel Depot CTO JM46

Matrix: Water

Batch: 1J05008

% Solids:

Source Sample Name: **1110003-12**

ANALYTE	SPIKE ADDED (ug/L)	SAMPLE CONCENTRATION (ug/L)	MS CONCENTRATION (ug/L)	MS % REC.	Q	QC LIMITS REC.
Methylene chloride	50.00	ND	44.0	88.1		55 - 140
Methyl Acetate	50.00	ND	41.0	82.0		55 - 150
Methylcyclohexane	50.00	ND	33.6	67.1		60 - 125
4-Methyl-2-pentanone	100.0	ND	77.9	77.9		60 - 135
Methyl t-Butyl Ether	50.00	ND	37.6	75.3		65 - 125
Styrene	50.00	ND	47.2	94.5		65 - 135
1,1,2,2-Tetrachloroethane	50.00	ND	44.4	88.8		65 - 130
1,1,1,2-Tetrachloroethane	50.00	ND	44.8	89.5		80 - 130
Tetrachloroethene	50.00	ND	46.4	92.8		45 - 150
Toluene	50.00	0.904	44.0	86.1		75 - 120
1,2,3-Trichlorobenzene	50.00	ND	51.5	103		55 - 140
1,2,4-Trichlorobenzene	50.00	ND	47.6	95.3		65 - 135
1,1,2-Trichloroethane	50.00	ND	39.9	79.9		75 - 125
1,1,1-Trichloroethane	50.00	ND	52.3	105		65 - 130
Trichloroethene	50.00	ND	47.3	94.6		70 - 125
Trichlorofluoromethane	50.00	ND	53.5	107		60 - 145
1,1,2-Trichloro-1,2,2-trifluoroethane	50.00	ND	41.0	82.0		60 - 130
Vinyl chloride	50.00	ND	53.5	107		50 - 145
m,p-Xylene	100.0	1.99	98.4	96.4		75 - 130
o-Xylene	50.00	2.06	49.7	95.3		80 - 120

MATRIX SPIKE / MATRIX SPIKE DUPLICATE RECOVERY

SW8260B

FLC-5-MW01-092911

Laboratory: Empirical Laboratories, LLC

SDG: 1110003

Client: Tetra Tech NUS, Inc. (T010)

Project: Navy Fuel Depot CTO JM46

Matrix: Water

Batch: 1J05008

% Solids:

Source Sample Name: **1110003-12**

ANALYTE	SPIKE ADDED (ug/L)	MSD CONCENTRATION (ug/L)	MSD % REC. #	% RPD	Q	QC LIMITS RPD	QC LIMITS REC.
Acetone	100.0	92.9	86.4	11.4		30	40 - 140
Benzene	50.00	42.3	84.5	0.716		30	80 - 120
Bromochloromethane	50.00	44.2	88.4	2.15		30	65 - 130
Bromodichloromethane	50.00	42.3	84.6	2.77		30	75 - 120
Bromoform	50.00	49.3	98.7	1.62		30	70 - 130
Bromomethane	50.00	14.3	28.5	7.01	*	30	30 - 145
2-Butanone	100.0	76.8	76.8	7.95		30	30 - 150
Carbon disulfide	50.00	40.4	80.7	6.26		30	35 - 160
Carbon tetrachloride	50.00	49.0	98.1	6.93		30	65 - 140
Chlorobenzene	50.00	46.6	93.2	0.651		30	80 - 120
Chloroethane	50.00	68.0	136	24.7	*	30	60 - 135
Chloroform	50.00	44.0	88.0	5.10		30	65 - 135
Chloromethane	50.00	40.8	81.6	8.05		30	40 - 125
Cyclohexane	50.00	34.7	69.3	1.11		30	60 - 130
Dibromochloromethane	50.00	44.0	88.1	1.63		30	60 - 135
1,2-Dibromo-3-chloropropane	50.00	52.6	105	8.12		30	50 - 130
1,2-Dibromoethane (EDB)	50.00	45.1	90.1	2.61		30	80 - 120
1,2-Dichlorobenzene	50.00	49.3	98.6	2.54		30	70 - 120
1,3-Dichlorobenzene	50.00	48.0	96.0	0.209		30	75 - 125
1,4-Dichlorobenzene	50.00	49.2	98.4	1.69		30	75 - 125
Dichlorodifluoromethane	50.00	51.1	102	1.91		30	30 - 155
1,1-Dichloroethane	50.00	42.6	85.2	1.10		30	70 - 135
1,2-Dichloroethane	50.00	45.4	90.7	4.60		30	70 - 130
1,1-Dichloroethene	50.00	42.6	85.2	2.92		30	70 - 130
cis-1,2-Dichloroethene	50.00	43.3	86.5	1.03		30	70 - 125
trans-1,2-Dichloroethene	50.00	41.6	83.2	0.356		30	60 - 140
1,2-Dichloropropane	50.00	41.0	82.0	0.142		30	75 - 125
cis-1,3-Dichloropropene	50.00	42.4	84.7	0.248		30	70 - 130
trans-1,3-Dichloropropene	50.00	37.9	75.8	1.81		30	55 - 140
Ethylbenzene	50.00	47.7	93.5	1.37		30	75 - 125
2-Hexanone	100.0	83.0	83.0	9.51		30	55 - 130
Isopropylbenzene	50.00	44.7	89.4	1.53		30	75 - 125
Methylene chloride	50.00	39.8	79.6	10.1		30	55 - 140

MATRIX SPIKE / MATRIX SPIKE DUPLICATE RECOVERY

SW8260B

FLC-5-MW01-092911

Laboratory: Empirical Laboratories, LLC

SDG: 1110003

Client: Tetra Tech NUS, Inc. (T010)

Project: Navy Fuel Depot CTO JM46

Matrix: Water

Batch: 1J05008

% Solids:

Source Sample Name: **1110003-12**

ANALYTE	SPIKE ADDED (ug/L)	MSD CONCENTRATION (ug/L)	MSD % REC. #	% RPD	Q	QC LIMITS RPD	QC LIMITS REC.
Methyl Acetate	50.00	38.6	77.2	5.95		30	55 - 150
Methylcyclohexane	50.00	33.2	66.3	1.22		30	60 - 125
4-Methyl-2-pentanone	100.0	82.1	82.1	5.21		30	60 - 135
Methyl t-Butyl Ether	50.00	37.9	75.8	0.719		30	65 - 125
Styrene	50.00	45.6	91.2	3.58		30	65 - 135
1,1,2,2-Tetrachloroethane	50.00	46.9	93.9	5.59		30	65 - 130
1,1,1,2-Tetrachloroethane	50.00	45.0	90.0	0.583		30	80 - 130
Tetrachloroethene	50.00	46.4	92.8	0.0114		30	45 - 150
Toluene	50.00	44.9	88.1	2.15		30	75 - 120
1,2,3-Trichlorobenzene	50.00	51.4	103	0.0926		30	55 - 140
1,2,4-Trichlorobenzene	50.00	48.6	97.2	2.07		30	65 - 135
1,1,2-Trichloroethane	50.00	41.7	83.5	4.38		30	75 - 125
1,1,1-Trichloroethane	50.00	49.4	98.8	5.76		30	65 - 130
Trichloroethene	50.00	45.4	90.9	4.01		30	70 - 125
Trichlorofluoromethane	50.00	52.6	105	1.62		30	60 - 145
1,1,2-Trichloro-1,2,2-trifluoroethane	50.00	40.8	81.5	0.562		30	60 - 130
Vinyl chloride	50.00	57.9	116	7.88		30	50 - 145
m,p-Xylene	100.0	96.9	94.9	1.56		30	75 - 130
o-Xylene	50.00	47.9	91.6	3.82		30	80 - 120

PREPARATION BATCH SUMMARY

SW8260B

Laboratory: Empirical Laboratories, LLC SDG: 1110003

Client: Tetra Tech NUS, Inc. (T010) Project: Navy Fuel Depot CTO JM46

Batch: 1J05008 Batch Matrix: Water Preparation: 5030B

SAMPLE NAME	LAB SAMPLE ID	DATE PREPARED	INITIAL VOL./WEIGHT	FINAL VOL.
FLC-4-MW01-092911	1110003-01	10/05/11 00:00	5.00	5.00
FLC-4-MW02-092911	1110003-03	10/05/11 00:00	5.00	5.00
FLC-5-MW05-092911	1110003-05	10/05/11 00:00	5.00	5.00
FLC-5-MW04-092911	1110003-07	10/05/11 00:00	5.00	5.00
FLC-5-MW03-092911	1110003-09	10/05/11 00:00	5.00	5.00
FLC-RB02-092911	1110003-11	10/05/11 00:00	5.00	5.00
FLC-5-MW01-092911	1110003-12	10/05/11 00:00	5.00	5.00
FLC-5-MW02-092911	1110003-14	10/05/11 00:00	5.00	5.00
TRIP BLANK	1110003-16	10/05/11 00:00	5.00	5.00
Blank	1J05008-BLK1	10/05/11 00:00	5.00	5.00
LCS	1J05008-BS1	10/05/11 00:00	5.00	5.00
FLC-5-MW01-092911	1J05008-MS1	10/05/11 00:00	5.00	5.00
FLC-5-MW01-092911	1J05008-MSD1	10/05/11 00:00	5.00	5.00

MASS SPECTROMETER INSTRUMENT PERFORMANCE CHECK

SW8260B

Laboratory:	Empirical Laboratories, LLC	SDG:	1110003
Client:	Tetra Tech NUS, Inc. (T010)	Project:	Navy Fuel Depot CTO JM46
Lab File ID:	0913TUN1.D	Injection Date:	09/13/11
Instrument ID:	MS-VOA6	Injection Time:	13:38
Sequence:	1I25809	Lab Sample ID:	1I25809-TUN1

m/z	ION ABUNDANCE CRITERIA	% RELATIVE ABUNDANCE	
50	15 - 40% of 95	29.6	PASS
75	30 - 60% of 95	54.9	PASS
95	Base peak, 100% relative abundance	100	PASS
96	5 - 9% of 95	6.49	PASS
173	Less than 2% of 174	0	PASS
174	50 - 200% of 95	58.8	PASS
175	5 - 9% of 174	7.37	PASS
176	95 - 101% of 174	97.4	PASS
177	5 - 9% of 176	6.71	PASS

MASS SPECTROMETER INSTRUMENT PERFORMANCE CHECK

SW8260B

Laboratory:	Empirical Laboratories, LLC	SDG:	1110003
Client:	Tetra Tech NUS, Inc. (T010)	Project:	Navy Fuel Depot CTO JM46
Lab File ID:	1005TUN1.D	Injection Date:	10/05/11
Instrument ID:	MS-VOA6	Injection Time:	07:31
Sequence:	1J27902	Lab Sample ID:	1J27902-TUN1

m/z	ION ABUNDANCE CRITERIA	% RELATIVE ABUNDANCE	
50	15 - 40% of 95	27.9	PASS
75	30 - 60% of 95	55	PASS
95	Base peak, 100% relative abundance	100	PASS
96	5 - 9% of 95	6.29	PASS
173	Less than 2% of 174	0	PASS
174	50 - 200% of 95	75.7	PASS
175	5 - 9% of 174	7.14	PASS
176	95 - 101% of 174	96.2	PASS
177	5 - 9% of 176	6.59	PASS

ANALYSIS SEQUENCE SUMMARY

SW8260B

Laboratory:	Empirical Laboratories, LLC	SDG:	1110003
Client:	Tetra Tech NUS, Inc. (T010)	Project:	Navy Fuel Depot CTO JM46
Sequence:	1I25809	Instrument:	MS-VOA6
Calibration:	1258002		

Sample Name	Lab Sample ID	Lab File ID	Analysis Date/Time
MS Tune	1I25809-TUN1	0913TUN1.D	09/13/11 13:38
Cal Standard	1I25809-CAL1	0913CAL1.D	09/13/11 14:57
Cal Standard	1I25809-CAL2	0913CAL2.D	09/13/11 15:23
Cal Standard	1I25809-CAL3	0913CAL3.D	09/13/11 15:50
Cal Standard	1I25809-CAL4	0913CAL4.D	09/13/11 16:17
Cal Standard	1I25809-CAL5	0913CAL5.D	09/13/11 16:44
Cal Standard	1I25809-CAL6	0913CAL6.D	09/13/11 17:10
Cal Standard	1I25809-CAL7	0913CAL7.D	09/13/11 17:37
Cal Standard	1I25809-CAL8	0913CAL8.D	09/13/11 18:04
Cal Standard	1I25809-CAL9	0913CAL9.D	09/13/11 18:30
Initial Cal Check	1I25809-ICV2	0913ICV2.D	09/13/11 19:51

ANALYSIS SEQUENCE SUMMARY

SW8260B

Laboratory:	Empirical Laboratories, LLC	SDG:	1110003
Client:	Tetra Tech NUS, Inc. (T010)	Project:	Navy Fuel Depot CTO JM46
Sequence:	1J27902	Instrument:	MS-VOA6
Calibration:	1258002		

Sample Name	Lab Sample ID	Lab File ID	Analysis Date/Time
MS Tune	1J27902-TUN1	1005TUN1.D	10/05/11 07:31
Calibration Check	1J27902-CCV1	1005CCV1.D	10/05/11 07:58
LCS	1J05008-BS1	1005LCS1.D	10/05/11 08:24
Blank	1J05008-BLK1	1005BLK1.D	10/05/11 09:43
FLC-RB02-092911	1110003-11	1000311.D	10/05/11 11:03
TRIP BLANK	1110003-16	1000316.D	10/05/11 11:29
FLC-4-MW01-092911	1110003-01	1000301.D	10/05/11 12:49
FLC-4-MW02-092911	1110003-03	1000303.D	10/05/11 13:16
FLC-5-MW05-092911	1110003-05	1000305.D	10/05/11 13:43
FLC-5-MW04-092911	1110003-07	1000307.D	10/05/11 14:09
FLC-5-MW03-092911	1110003-09	1000309.D	10/05/11 14:36
FLC-5-MW01-092911	1110003-12	1000312.D	10/05/11 15:03
FLC-5-MW02-092911	1110003-14	1000314.D	10/05/11 15:29
FLC-5-MW01-092911	1J05008-MS1	1000312M.D	10/05/11 18:09
FLC-5-MW01-092911	1J05008-MSD1	1000312S.D	10/05/11 18:36

INTERNAL STANDARD AREA AND RT SUMMARY
SW8260B

Laboratory: Empirical Laboratories, LLC
SDG: 1110003
Client: Tetra Tech NUS, Inc. (T010)
Project: Navy Fuel Depot CTO JM46
Sequence: 1J27902
Instrument: MS-VOA6
Calibration: 1258002

Internal Standard	Response	RT	Reference Response	Reference RT	Area %	Area % Limits	RT Diff	RT Diff Limit	Q
Calibration Check (1J27902-CCV1)			Lab File ID: 1005CCV1.D			Analyzed: 10/05/11 07:58			
Fluorobenzene	989404	7.912	858032	7.903	115	50 - 200	0.0090	+/-0.50	
Chlorobenzene-d5	458672	11.022	403998	11.013	114	50 - 200	0.0090	+/-0.50	
1,4-Dichlorobenzene-d4	361517	13.414	333506	13.405	108	50 - 200	0.0090	+/-0.50	
LCS (1J05008-BS1)			Lab File ID: 1005LCS1.D			Analyzed: 10/05/11 08:24			
Fluorobenzene	1020569	7.917	989404	7.912	103	50 - 200	0.0050	+/-0.50	
Chlorobenzene-d5	463761	11.017	458672	11.022	101	50 - 200	-0.0050	+/-0.50	
1,4-Dichlorobenzene-d4	369697	13.409	361517	13.414	102	50 - 200	-0.0050	+/-0.50	
Blank (1J05008-BLK1)			Lab File ID: 1005BLK1.D			Analyzed: 10/05/11 09:43			
Fluorobenzene	869610	7.916	989404	7.912	88	50 - 200	0.0040	+/-0.50	
Chlorobenzene-d5	403326	11.016	458672	11.022	88	50 - 200	-0.0060	+/-0.50	
1,4-Dichlorobenzene-d4	302116	13.408	361517	13.414	84	50 - 200	-0.0060	+/-0.50	
FLC-RB02-092911 (1110003-11)			Lab File ID: 1000311.D			Analyzed: 10/05/11 11:03			
Fluorobenzene	892505	7.918	989404	7.912	90	50 - 200	0.0060	+/-0.50	
Chlorobenzene-d5	410518	11.018	458672	11.022	90	50 - 200	-0.0040	+/-0.50	
1,4-Dichlorobenzene-d4	310251	13.41	361517	13.414	86	50 - 200	-0.0040	+/-0.50	
TRIP BLANK (1110003-16)			Lab File ID: 1000316.D			Analyzed: 10/05/11 11:29			
Fluorobenzene	842893	7.915	989404	7.912	85	50 - 200	0.0030	+/-0.50	
Chlorobenzene-d5	393696	11.016	458672	11.022	86	50 - 200	-0.0060	+/-0.50	
1,4-Dichlorobenzene-d4	293442	13.407	361517	13.414	81	50 - 200	-0.0070	+/-0.50	
FLC-4-MW01-092911 (1110003-01)			Lab File ID: 1000301.D			Analyzed: 10/05/11 12:49			
Fluorobenzene	796615	7.911	989404	7.912	81	50 - 200	-0.0010	+/-0.50	
Chlorobenzene-d5	361813	11.021	458672	11.022	79	50 - 200	-0.0010	+/-0.50	
1,4-Dichlorobenzene-d4	265483	13.413	361517	13.414	73	50 - 200	-0.0010	+/-0.50	
FLC-4-MW02-092911 (1110003-03)			Lab File ID: 1000303.D			Analyzed: 10/05/11 13:16			
Fluorobenzene	784712	7.912	989404	7.912	79	50 - 200	0.0000	+/-0.50	
Chlorobenzene-d5	362984	11.022	458672	11.022	79	50 - 200	0.0000	+/-0.50	
1,4-Dichlorobenzene-d4	268003	13.414	361517	13.414	74	50 - 200	0.0000	+/-0.50	
FLC-5-MW05-092911 (1110003-05)			Lab File ID: 1000305.D			Analyzed: 10/05/11 13:43			
Fluorobenzene	833887	7.911	989404	7.912	84	50 - 200	-0.0010	+/-0.50	
Chlorobenzene-d5	377408	11.021	458672	11.022	82	50 - 200	-0.0010	+/-0.50	
1,4-Dichlorobenzene-d4	283097	13.413	361517	13.414	78	50 - 200	-0.0010	+/-0.50	
FLC-5-MW04-092911 (1110003-07)			Lab File ID: 1000307.D			Analyzed: 10/05/11 14:09			
Fluorobenzene	794571	7.918	989404	7.912	80	50 - 200	0.0060	+/-0.50	
Chlorobenzene-d5	367283	11.018	458672	11.022	80	50 - 200	-0.0040	+/-0.50	
1,4-Dichlorobenzene-d4	273086	13.41	361517	13.414	76	50 - 200	-0.0040	+/-0.50	

INTERNAL STANDARD AREA AND RT SUMMARY
SW8260B

Laboratory: Empirical Laboratories, LLC
SDG: 1110003
Client: Tetra Tech NUS, Inc. (T010)
Project: Navy Fuel Depot CTO JM46
Sequence: 1J27902
Instrument: MS-VOA6
Calibration: 1258002

Internal Standard	Response	RT	Reference Response	Reference RT	Area %	Area % Limits	RT Diff	RT Diff Limit	Q
FLC-5-MW03-092911 (1110003-09)			Lab File ID: 1000309.D			Analyzed: 10/05/11 14:36			
Fluorobenzene	807412	7.917	989404	7.912	82	50 - 200	0.0050	+/-0.50	
Chlorobenzene-d5	369974	11.017	458672	11.022	81	50 - 200	-0.0050	+/-0.50	
1,4-Dichlorobenzene-d4	270369	13.409	361517	13.414	75	50 - 200	-0.0050	+/-0.50	
FLC-5-MW01-092911 (1110003-12)			Lab File ID: 1000312.D			Analyzed: 10/05/11 15:03			
Fluorobenzene	779960	7.917	989404	7.912	79	50 - 200	0.0050	+/-0.50	
Chlorobenzene-d5	360708	11.017	458672	11.022	79	50 - 200	-0.0050	+/-0.50	
1,4-Dichlorobenzene-d4	260569	13.409	361517	13.414	72	50 - 200	-0.0050	+/-0.50	
FLC-5-MW02-092911 (1110003-14)			Lab File ID: 1000314.D			Analyzed: 10/05/11 15:29			
Fluorobenzene	789836	7.916	989404	7.912	80	50 - 200	0.0040	+/-0.50	
Chlorobenzene-d5	356906	11.026	458672	11.022	78	50 - 200	0.0040	+/-0.50	
1,4-Dichlorobenzene-d4	255582	13.408	361517	13.414	71	50 - 200	-0.0060	+/-0.50	
Matrix Spike (1J05008-MS1)			Lab File ID: 1000312M.D			Analyzed: 10/05/11 18:09			
Fluorobenzene	866084	7.917	989404	7.912	88	50 - 200	0.0050	+/-0.50	
Chlorobenzene-d5	416440	11.027	458672	11.022	91	50 - 200	0.0050	+/-0.50	
1,4-Dichlorobenzene-d4	345101	13.409	361517	13.414	95	50 - 200	-0.0050	+/-0.50	
Matrix Spike Dup (1J05008-MSD1)			Lab File ID: 1000312S.D			Analyzed: 10/05/11 18:36			
Fluorobenzene	951696	7.921	989404	7.912	96	50 - 200	0.0090	+/-0.50	
Chlorobenzene-d5	436313	11.022	458672	11.022	95	50 - 200	0.0000	+/-0.50	
1,4-Dichlorobenzene-d4	350318	13.413	361517	13.414	97	50 - 200	-0.0010	+/-0.50	

INITIAL CALIBRATION DATA

SW8260B

Laboratory:	Empirical Laboratories, LLC	SDG:	1110003
Client:	Tetra Tech NUS, Inc. (T010)	Project:	Navy Fuel Depot CTO JM46
Calibration:	1258002	Instrument:	MS-VOA6
Matrix:	Water	Calibration Dates:	9/13/11 14:57 9/13/11 18:30

Compound	Level 01		Level 02		Level 03		Level 04		Level 05		Level 06	
	ug/L	RF	ug/L	RF	ug/L	RF	ug/L	RF	ug/L	RF	ug/L	RF
Acetone	1	~~0.2025603~~	2	0.1457111	4	0.129836	10	0.1096288	20	0.1172883	100	0.1161553
Acrolein	2.502	5.512186E-02	5.005	4.513846E-02	10.01	4.647939E-02	25.02	4.550316E-02	50.05	4.562258E-02	250.2	4.706066E-02
Acrylonitrile	2.498	9.507946E-02	4.997	9.245133E-02	9.994	9.605667E-02	24.98	9.240335E-02	49.97	0.0973469	249.8	0.1006377
Benzene	0.5	1.012489	1	1.019346	2	1.012249	5	1.028983	10	1.048885	50	1.073407
Bromobenzene	0.5	0.6520267	1	0.6703422	2	0.6835796	5	0.6802636	10	0.6432074	50	0.6990824
Bromochloromethane	0.5	0.1277608	1	0.1425862	2	0.1375576	5	0.1356523	10	0.1427114	50	0.1492161
Tert-Amyl Methyl Ether	0.5	0.9161638	1	0.8802777	2	0.8906859	5	0.8956939	10	0.9091681	50	0.9478054
Bromodichloromethane	0.5	0.3916978	1	0.3932988	2	0.4145342	5	0.3945168	10	0.4054259	50	0.4255933
Bromoform	0.5	0.2752893	1	0.3015285	2	0.3182005	5	0.3170214	10	0.3372792	50	0.3906046
Bromomethane	0.5	0.1566235	1	0.1343555	2	0.136196	5	0.1428968	10	0.1463382	50	0.1578632
Bromofluorobenzene	30	0.8951082	35	0.8715383	40	0.8804214	50	0.847972	60	0.8349991	70	0.8438784
n-Butylbenzene	0.5	1.843014	1	2.07058	2	1.874533	5	1.8611	10	1.908563	50	2.039616
2-Butanone	1	0.2185913	2	0.211796	4	0.2139028	10	0.203933	20	0.2114883	100	0.2227151
sec-Butylbenzene	0.5	2.461807	1	2.512994	2	2.492873	5	2.460693	10	2.515377	50	2.705586
tert-Butylbenzene	0.5	1.97378	1	1.88858	2	2.002003	5	1.958609	10	1.960425	50	2.116269
Carbon disulfide	0.5	0.7028582	1	0.62755	2	0.6048156	5	0.6152078	10	0.6705723	50	0.6691913
Carbon tetrachloride	0.5	0.2963466	1	0.3115722	2	0.3214618	5	0.3327848	10	0.3487612	50	0.3656545
Chlorobenzene	0.5	1.445381	1	1.426059	2	1.429195	5	1.433918	10	1.422227	50	1.512426
Chloroethane	0.5	0.1607268	1	0.1591843	2	0.1559997	5	0.159022	10	0.1665614	50	0.1625335
Chloroform	0.5	0.5570148	1	0.5246148	2	0.5195337	5	0.5057294	10	0.5004336	50	0.5217724
2-Chloroethyl vinyl ether	0.9975	0.1792576	1.995	0.1885999	3.99	0.1889613	9.975	0.1964874	19.95	0.201442	99.75	0.2144144
Chloromethane	0.5	0.3054575	1	0.2771807	2	0.284681	5	0.2643817	10	0.3010329	50	0.3031173
1-Chlorohexane	0.5	1.003537	1	0.8934638	2	0.7790349	5	0.7227957	10	0.7002461	50	0.7353481
2-Chlorotoluene	0.5	2.104186	1	2.087544	2	2.107453	5	2.074577	10	2.041034	50	2.181487
4-Chlorotoluene	0.5	2.390102	1	2.410669	2	2.383228	5	2.380563	10	2.36417	50	2.55075
Cyclohexane	0.5	0.5181371	1	0.4928189	2	0.4986614	5	0.4805975	10	0.5031449	50	0.5024042
Dibromochloromethane	0.5	0.5118308	1	0.5404977	2	0.5669012	5	0.56378	10	0.5735861	50	0.6481355
1,2-Dibromo-3-chloropropane	0.5	0.1331146	1	0.1351693	2	0.1416032	5	0.1291551	10	0.1325067	50	0.1482053
1,2-Dibromoethane (EDB)	0.5	0.5714543	1	0.5492779	2	0.5720933	5	0.5653543	10	0.5607722	50	0.6045733
Dibromomethane	0.5	0.1880594	1	0.1957956	2	0.1943835	5	0.1922236	10	0.1936848	50	0.2017494
1,2-Dichlorobenzene	0.5	1.043062	1	1.151465	2	1.170164	5	1.124382	10	1.138074	50	1.195595

INITIAL CALIBRATION DATA

SW8260B

Laboratory: Empirical Laboratories, LLC

SDG: 1110003

Client: Tetra Tech NUS, Inc. (T010)

Project: Navy Fuel Depot CTO JM46

Calibration: 1258002

Instrument: MS-VOA6

Matrix: Water

Calibration Dates: 9/13/11 14:57 9/13/11 18:30

Compound	Level 01		Level 02		Level 03		Level 04		Level 05		Level 06	
	ug/L	RF	ug/L	RF	ug/L	RF	ug/L	RF	ug/L	RF	ug/L	RF
1,3-Dichlorobenzene	0.5	1.166965	1	1.204071	2	1.201804	5	1.182671	10	1.172136	50	1.249796
1,4-Dichlorobenzene	0.5	1.206701	1	1.21887	2	1.250038	5	1.208776	10	1.190408	50	1.264017
Dichlorodifluoromethane	0.5	0.2286063	1	0.2222296	2	0.2251319	5	0.2082929	10	0.2692399	50	0.274137
1,1-Dichloroethane	0.5	0.5403927	1	0.5468138	2	0.5510232	5	0.5598113	10	0.5660451	50	0.5760678
1,2-Dichloroethane	0.5	0.5091653	1	0.5133103	2	0.535132	5	0.5264139	10	0.5289745	50	0.5375092
1,1-Dichloroethene	0.5	0.2215123	1	0.1901946	2	0.1936768	5	0.1835806	10	0.1809237	50	0.1920659
cis-1,2-Dichloroethene	0.5	0.2759689	1	0.2809375	2	0.275684	5	0.2810175	10	0.2794099	50	0.2857354
trans-1,2-Dichloroethene	0.5	0.2543393	1	0.2569625	2	0.2506923	5	0.2396904	10	0.2432336	50	0.2414877
1,2-Dichloroethene (total)	1	0.2651541	2	0.26895	4	0.2631881	10	0.2603539	20	0.2613217	100	0.2636116
1,2-Dichloropropane	0.5	0.3129687	1	0.2920712	2	0.314964	5	0.3197433	10	0.3175197	50	0.3227427
1,3-Dichloropropane	0.5	0.8999091	1	0.9157803	2	0.9604611	5	0.9358264	10	0.9264139	50	0.9791751
2,2-Dichloropropane	0.5	0.4652106	1	0.4221918	2	0.4329419	5	0.410635	10	0.4295269	50	0.4285419
1,1-Dichloropropene	0.5	0.3910023	1	0.3838045	2	0.3976261	5	0.3911952	10	0.3995013	50	0.3999589
cis-1,3-Dichloropropene	0.5	0.463611	1	0.4327107	2	0.4665514	5	0.4660316	10	0.461037	50	0.4868566
trans-1,3-Dichloropropene	0.5	1.021709	1	0.9951684	2	1.053659	5	1.046248	10	1.05344	50	1.097596
Diisopropyl Ether	0.5	1.396814	1	1.292429	2	1.347844	5	1.348943	10	1.376833	50	1.386673
Ethylbenzene	0.5	2.457479	1	2.380473	2	2.475882	5	2.469799	10	2.459088	50	2.642813
Ethyl tert-Butyl Ether	0.5	1.12008	1	1.086968	2	1.14498	5	1.122042	10	1.135052	50	1.183627
Ethyl Methacrylate	0.5	0.9186823	1	0.9131462	2	0.8967468	5	0.8920737	10	0.8816809	50	0.9623694
Hexachlorobutadiene	0.5	0.3121058	1	0.2844149	2	0.2816563	5	0.2708137	10	0.2880372	50	0.3057296
2-Hexanone	1	0.6942306	2	0.6203614	4	0.6418341	10	0.5964609	20	0.622888	100	0.682274
Iodomethane	0.5	~~0.1446611~~	1	0.1803929	2	0.192522	5	0.2261244	10	0.2506887	50	0.2997653
Isopropylbenzene	0.5	1.963069	1	2.060213	2	2.029325	5	2.043946	10	2.062737	50	2.231013
p-Isopropyltoluene	0.5	2.109424	1	2.114073	2	2.118759	5	2.091327	10	2.094262	50	2.222574
Methylene chloride	0.5	0.3300081	1	0.2647493	2	0.2436774	5	0.2293131	10	0.2281537	50	0.220352
Methyl Acetate	0.5	0.2755516	1	0.30078	2	0.2736329	5	0.2335647	10	0.2429932	50	0.2577989
Methylcyclohexane	0.5	0.3502468	1	0.3188125	2	0.3190488	5	0.3203237	10	0.3291036	50	0.3437828
Naphthalene	0.5	1.64271	1	1.535768	2	1.579974	5	1.449095	10	1.456422	50	1.575249
Methyl Methacrylate	0.5	0.4182653	1	0.3884151	2	0.4153615	5	0.3912162	10	0.4044113	50	0.412795
4-Methyl-2-pentanone	1	0.4113452	2	0.4094188	4	0.4197394	10	0.4081596	20	0.4078632	100	0.4339199
Methyl t-Butyl Ether	0.5	0.8135796	1	0.8137488	2	0.8448218	5	0.8349479	10	0.8366813	50	0.8440215

INITIAL CALIBRATION DATA

SW8260B

Laboratory: Empirical Laboratories, LLC

SDG: 1110003

Client: Tetra Tech NUS, Inc. (T010)

Project: Navy Fuel Depot CTO JM46

Calibration: 1258002

Instrument: MS-VOA6

Matrix: Water

Calibration Dates: 9/13/11 14:57 9/13/11 18:30

Compound	Level 01		Level 02		Level 03		Level 04		Level 05		Level 06	
	ug/L	RF	ug/L	RF	ug/L	RF	ug/L	RF	ug/L	RF	ug/L	RF
n-Propylbenzene	0.5	3.333283	1	3.242529	2	3.29175	5	3.17809	10	3.204302	50	3.484074
Styrene	0.5	1.508159	1	1.539544	2	1.576131	5	1.56831	10	1.602108	50	1.704637
1,1,2,2-Tetrachloroethane	0.5	0.8293924	1	0.858749	2	0.8920637	5	0.8218323	10	0.836417	50	0.8977279
1,1,1,2-Tetrachloroethane	0.5	0.4799916	1	0.5001817	2	0.5138307	5	0.4987747	10	0.4942518	50	0.5434963
tert-Butyl alcohol	2.5	3.432919E-02	5	3.239695E-02	10	3.288559E-02	25	3.132331E-02	50	2.930228E-02	250	3.006676E-02
Tetrachloroethene	0.5	0.4645225	1	0.4560609	2	0.4651735	5	0.4673637	10	0.4634311	50	0.4873334
Toluene	0.5	1.284083	1	1.298892	2	1.273544	5	1.285833	10	1.28507	50	1.33459
1,2,3-Trichlorobenzene	0.5	0.5781544	1	0.558453	2	0.5361409	5	0.5203265	10	0.5193367	50	0.5660439
1,2,4-Trichlorobenzene	0.5	0.7031412	1	0.6649282	2	0.6549946	5	0.5960133	10	0.6187458	50	0.6666121
1,1,2-Trichloroethane	0.5	0.4475516	1	0.4532805	2	0.4573483	5	0.4537151	10	0.4428391	50	0.4631068
1,1,1-Trichloroethane	0.5	0.384882	1	0.4004025	2	0.4017626	5	0.4094113	10	0.4212622	50	0.4340432
Tetrahydrofuran	0.5	~~0.1687945~~	1	0.140742	2	0.1313183	5	0.107031	10	0.1043258	50	0.1114998
Trichloroethene	0.5	0.2667189	1	0.2644078	2	0.261275	5	0.2693326	10	0.2723188	50	0.2775691
Trichlorofluoromethane	0.5	0.3724328	1	0.3780669	2	0.3792874	5	0.3818739	10	0.4127502	50	0.4187662
1,2,3-Trichloropropane	0.5	0.1866801	1	0.2084578	2	0.1952223	5	0.2076396	10	0.1951678	50	0.2095557
1,3,5-Trimethylbenzene	0.5	2.181309	1	2.119397	2	2.223617	5	2.188818	10	2.208112	50	2.363758
1,2,4-Trimethylbenzene	0.5	2.319662	1	2.286779	2	2.312335	5	2.245849	10	2.252409	50	2.446174
1,1,2-Trichloro-1,2,2-trifluoroethan	0.5	0.2027342	1	0.2091492	2	0.1975031	5	0.2032302	10	0.2082168	50	0.2139902
Vinyl chloride	0.5	0.2641456	1	0.2443262	2	0.2484517	5	0.2375925	10	0.2607173	50	0.2597799
m,p-Xylene	1	1.938364	2	1.908754	4	1.915563	10	1.946601	20	1.920622	100	2.080095
o-Xylene	0.5	2.079012	1	2.030726	2	2.050798	5	2.011347	10	1.991375	50	2.13974
Vinyl acetate	0.996	0.6982792	1.992	0.7581075	3.984	0.8172823	9.96	0.8452236	19.92	0.8650183	99.62	0.9280547
Xylenes (total)	1.5	1.985247	3	1.949411	6	1.960642	15	1.968183	30	1.944206	150	2.099977
Dibromofluoromethane	30	0.3148987	35	0.3105525	40	0.3114031	50	0.3100304	60	0.3059853	70	0.3007833
1,2-Dichloroethane-d4	30	6.594251E-02	35	6.521349E-02	40	6.623482E-02	50	6.464654E-02	60	6.459988E-02	70	6.163063E-02
Toluene-d8	30	2.002048	35	1.956807	40	1.961315	50	1.967983	60	1.928561	70	1.932351
tert-Amyl alcohol	2.5	2.793072E-02	5	2.693257E-02	10	0.0270565	25	2.558646E-02	50	2.503989E-02	250	2.764715E-02
tert-Amyl ethyl ether	0.5	0.8483539	1	0.8756671	2	0.8959255	5	0.9011762	10	0.9141912	50	0.9461658

INITIAL CALIBRATION DATA (Continued)

SW8260B

Laboratory:	Empirical Laboratories, LLC	SDG:	1110003
Client:	Tetra Tech NUS, Inc. (T010)	Project:	Navy Fuel Depot CTO JM46
Calibration:	1258002	Instrument:	MS-VOA6
Matrix:	Water	Calibration Dates:	9/13/11 14:57 9/13/11 18:30

Compound	Level 07		Level 08		Level 09		Level 10		Level 11		Level 12	
	ug/L	RF	ug/L	RF	ug/L	RF	ug/L	RF	ug/L	RF	ug/L	RF
Acetone	200	0.1166755	300	0.1144909	400	0.1146763						
Acrolein	500.5	4.965607E-02	750.8	5.040645E-02	1001	5.134519E-02						
Acrylonitrile	499.7	0.1031605	749.6	0.1042654	999.4	0.1069093						
Benzene	100	1.08036	150	1.08988	200	1.106296						
Bromobenzene	100	0.7032417	150	0.6914736	200	0.7205662						
Bromochloromethane	100	0.1456423	150	0.1426195	200	0.1411766						
Tert-Amyl Methyl Ether	100	0.967278	150	0.9527552	200	0.968265						
Bromodichloromethane	100	0.4319297	150	0.4320795	200	0.4329709						
Bromoform	100	0.4135953	150	~~0.4237712~~	200	~~0.4401142~~						
Bromomethane	100	0.174302	150	0.1809963	200	0.1864307						
Bromofluorobenzene	30	0.9044906	30	0.9088533	30	0.919014						
n-Butylbenzene	100	2.079648	150	1.985056	200	2.032137						
2-Butanone	200	0.2232973	300	0.2236105	400	0.2245547						
sec-Butylbenzene	100	2.793076	150	2.709122	200	2.757884						
tert-Butylbenzene	100	2.15285	150	2.074602	200	2.135493						
Carbon disulfide	100	0.6842403	150	0.6977567	200	0.7110176						
Carbon tetrachloride	100	0.3765448	150	0.3743512	200	0.374315						
Chlorobenzene	100	1.544425	150	1.553333	200	1.607816						
Chloroethane	100	0.1683823	150	0.1647617	200	0.1655736						
Chloroform	100	0.5201437	150	0.5233394	200	0.5240376						
2-Chloroethyl vinyl ether	199.5	0.2170065	299.2	0.2147974	399	0.2153371						
Chloromethane	100	0.3119887	150	0.3103885	200	0.3221559						
1-Chlorohexane	100	0.7503567	150	0.7558635	200	0.7744302						
2-Chlorotoluene	100	2.191888	150	2.143614	200	2.183054						
4-Chlorotoluene	100	2.543333	150	2.484863	200	2.539128						
Cyclohexane	100	0.5188785	150	0.5228505	200	0.5206162						
Dibromochloromethane	100	0.6691122	150	0.6757425	200	0.7043424						
1,2-Dibromo-3-chloropropane	100	0.1585164	150	0.1538009	200	0.1581365						
1,2-Dibromoethane (EDB)	100	0.6187714	150	0.6167109	200	0.6288224						
Dibromomethane	100	0.2039875	150	0.201025	200	0.203185						
1,2-Dichlorobenzene	100	1.243658	150	1.188325	200	1.239112						

INITIAL CALIBRATION DATA (Continued)

SW8260B

Laboratory:	Empirical Laboratories, LLC	SDG:	1110003
Client:	Tetra Tech NUS, Inc. (T010)	Project:	Navy Fuel Depot CTO JM46
Calibration:	1258002	Instrument:	MS-VOA6
Matrix:	Water	Calibration Dates:	9/13/11 14:57 9/13/11 18:30

Compound	Level 07		Level 08		Level 09		Level 10		Level 11		Level 12	
	ug/L	RF	ug/L	RF	ug/L	RF	ug/L	RF	ug/L	RF	ug/L	RF
1,3-Dichlorobenzene	100	1.282804	150	1.25716	200	1.29033						
1,4-Dichlorobenzene	100	1.289009	150	1.257396	200	1.295522						
Dichlorodifluoromethane	100	0.2718626	150	0.2754207	200	0.2759096						
1,1-Dichloroethane	100	0.5704305	150	0.5811296	200	0.5955877						
1,2-Dichloroethane	100	0.5402458	150	0.5295547	200	0.5230952						
1,1-Dichloroethene	100	0.1949912	150	0.1981413	200	0.2037595						
cis-1,2-Dichloroethene	100	0.2851411	150	0.2891809	200	0.2936416						
trans-1,2-Dichloroethene	100	0.2510613	150	0.2544983	200	0.2638378						
1,2-Dichloroethene (total)	200	0.2681012	300	0.2718396	400	0.2787397						
1,2-Dichloropropane	100	0.3243318	150	0.3239879	200	0.3236542						
1,3-Dichloropropane	100	0.9964303	150	0.9870319	200	1.017231						
2,2-Dichloropropane	100	0.4199076	150	0.4155449	200	0.413344						
1,1-Dichloropropene	100	0.409026	150	0.4056769	200	0.405036						
cis-1,3-Dichloropropene	100	0.491748	150	0.4884704	200	0.4918617						
trans-1,3-Dichloropropene	100	1.112863	150	1.102736	200	1.131884						
Diisopropyl Ether	100	1.404357	150	1.407936	200	1.431034						
Ethylbenzene	100	2.692985	150	2.735396	200	2.816156						
Ethyl tert-Butyl Ether	100	1.182907	150	1.173294	200	1.183799						
Ethyl Methacrylate	100	0.9589001	150	0.9705522	200	1.007765						
Hexachlorobutadiene	100	0.3188338	150	0.3152535	200	0.3271351						
2-Hexanone	200	0.6793857	300	0.6756797	400	0.6820493						
Iodomethane	100	0.3107297	150	0.313973	200	0.3182309						
Isopropylbenzene	100	2.23725	150	2.296142	200	2.331245						
p-Isopropyltoluene	100	2.292945	150	2.268964	200	2.306926						
Methylene chloride	100	0.2219804	150	0.2252686	200	0.2311264						
Methyl Acetate	100	0.2556234	150	0.258417	200	0.2575204						
Methylcyclohexane	100	0.3501692	150	0.3518043	200	0.3595688						
Naphthalene	100	1.686319	150	1.633381	200	1.724235						
Methyl Methacrylate	100	0.4222154	150	0.4087355	200	0.4074361						
4-Methyl-2-pentanone	200	0.4411978	300	0.429964	400	0.4288896						
Methyl t-Butyl Ether	100	0.8574469	150	0.8627605	200	0.8841276						

INITIAL CALIBRATION DATA (Continued)

SW8260B

Laboratory: Empirical Laboratories, LLC
SDG: 1110003
Client: Tetra Tech NUS, Inc. (T010)
Project: Navy Fuel Depot CTO JM46
Calibration: 1258002
Instrument: MS-VOA6
Matrix: Water
Calibration Dates: 9/13/11 14:57 9/13/11 18:30

Compound	Level 07		Level 08		Level 09		Level 10		Level 11		Level 12	
	ug/L	RF	ug/L	RF	ug/L	RF	ug/L	RF	ug/L	RF	ug/L	RF
n-Propylbenzene	100	3.462267	150	3.433123	200	3.483227						
Styrene	100	1.730752	150	1.747169	200	1.780947						
1,1,2,2-Tetrachloroethane	100	0.8977024	150	0.8702267	200	0.8893335						
1,1,1,2-Tetrachloroethane	100	0.5568762	150	0.5642541	200	0.5792642						
tert-Butyl alcohol	500	3.072704E-02	750	3.097659E-02	1000	3.113947E-02						
Tetrachloroethene	100	0.501375	150	0.5116784	200	0.5298307						
Toluene	100	1.340263	150	1.328356	200	1.36351						
1,2,3-Trichlorobenzene	100	0.597398	150	0.574394	200	0.6031484						
1,2,4-Trichlorobenzene	100	0.6918151	150	0.6707748	200	0.6960391						
1,1,2-Trichloroethane	100	0.4644598	150	0.4622911	200	0.4723133						
1,1,1-Trichloroethane	100	0.4349489	150	0.4336358	200	0.4291253						
Tetrahydrofuran	100	0.1160592	150	0.1135105	200	0.114872						
Trichloroethene	100	0.2835195	150	0.2829871	200	0.2859771						
Trichlorofluoromethane	100	0.4231154	150	0.4156056	200	0.4086547						
1,2,3-Trichloropropane	100	0.2144116	150	0.211841	200	0.213758						
1,3,5-Trimethylbenzene	100	2.393797	150	2.318602	200	2.389455						
1,2,4-Trimethylbenzene	100	2.427362	150	2.373065	200	2.417867						
1,1,2-Trichloro-1,2,2-trifluoroethan	100	0.2221093	150	0.2222891	200	0.2274684						
Vinyl chloride	100	0.265811	150	0.2645491	200	0.2673915						
m,p-Xylene	200	2.103691	300	2.111833	400	1.932533						
o-Xylene	100	2.163759	150	2.170816	200	2.212979						
Vinyl acetate	199.2	0.9331187	298.9	0.926519	398.5	0.9642979						
Xylenes (total)	300	2.123714	450	2.131493	600	2.026014						
Dibromofluoromethane	30	0.3180859	30	0.3156314	30	0.3166727						
1,2-Dichloroethane-d4	30	6.421959E-02	30	6.567008E-02	30	6.650076E-02						
Toluene-d8	30	1.973032	30	1.97269	30	2.05799						
tert-Amyl alcohol	500	2.874226E-02	750	2.916048E-02	1000	2.899876E-02						
tert-Amyl ethyl ether	100	0.9447038	150	0.9251066	200	0.9496329						

INITIAL CALIBRATION DATA (Continued)

SW8260B

Laboratory:	Empirical Laboratories, LLC	SDG:	1110003
Client:	Tetra Tech NUS, Inc. (T010)	Project:	Navy Fuel Depot CTO JM46
Calibration:	1258002	Instrument:	MS-VOA6
Matrix:	Water	Calibration Dates:	9/13/11 14:57 9/13/11 18:30

Compound	Mean RF	RF RSD	Mean RT	RT RSD	Linear r	Quad COD	LIMIT	Q
Acetone	0.1205578	9.687295	3.774875	0.1224781			15	
Acrolein	4.848154E-02	6.980569	3.654778	0.1096685			15	
Acrylonitrile	9.870118E-02	5.344786	4.607222	0.1583335			15	
Benzene	1.052433	3.42443	7.641889	5.881455E-02			15	
Bromobenzene	0.6826426	3.610985	12.36811	1.539211E-02			15	
Bromochloromethane	0.140547	4.436461	6.738556	0.0432367			15	
Tert-Amyl Methyl Ether	0.9253437	3.687357	7.835556	4.824906E-02			15	
Bromodichloromethane	0.4135608	4.291761	8.622556	0.0459804			15	
Bromoform	0.336217	14.64914	11.77686	2.346656E-02			SPCC (0.1)	
Bromomethane	0.1573336	12.30692	2.825556	0.1340577			15	
Bromofluorobenzene	0.878475	3.50609	12.20544	3.205571E-02			15	
n-Butylbenzene	1.966027	4.818819	13.79511	2.510454E-02			15	
2-Butanone	0.2170988	3.310907	6.212667	8.854368E-02			15	
sec-Butylbenzene	2.601046	5.263794	13.25522	0.0168091			15	
tert-Butylbenzene	2.029179	4.594246	13.02311	3.061215E-02			15	
Carbon disulfide	0.6648011	5.956892	4.766778	8.314131E-02			15	
Carbon tetrachloride	0.3446436	8.790892	7.608889	4.578012E-02			15	
Chlorobenzene	1.486087	4.682253	11.05244	3.120293E-02			SPCC (0.3)	
Chloroethane	0.1625273	2.519463	2.959111	9.369155E-02			15	
Chloroform	0.5218466	3.013169	6.716889	6.679279E-02			CCC (20)	
2-Chloroethyl vinyl ether	0.2018115	7.047183	8.981222	3.489983E-02			15	
Chloromethane	0.2978205	6.24167	2.244111	0.1419306			SPCC (0.1)	
1-Chlorohexane	0.790564	12.24414	11.01889	2.782658E-02			15	
2-Chlorotoluene	2.123871	2.530433	12.589	2.500628E-02			15	
4-Chlorotoluene	2.449645	3.220879	12.65133	0.0327337			15	
Cyclohexane	0.5064566	2.880723	7.539	0.0447776			15	
Dibromochloromethane	0.6059921	11.34527	10.29022	3.142678E-02			15	
1,2-Dibromo-3-chloropropane	0.1433564	8.087151	14.39778	2.960806E-02			15	
1,2-Dibromoethane (EDB)	0.5875367	5.031314	10.50033	2.392711E-02			15	
Dibromomethane	0.1971215	2.823059	8.559111	3.380959E-02			15	
1,2-Dichlorobenzene	1.165982	5.30465	13.755	2.189561E-02			15	
1,3-Dichlorobenzene	1.223082	3.895014	13.34467	1.660648E-02			15	

INITIAL CALIBRATION DATA (Continued)

SW8260B

Laboratory:	Empirical Laboratories, LLC	SDG:	1110003
Client:	Tetra Tech NUS, Inc. (T010)	Project:	Navy Fuel Depot CTO JM46
Calibration:	1258002	Instrument:	MS-VOA6
Matrix:	Water	Calibration Dates:	9/13/11 14:57 9/13/11 18:30

Compound	Mean RF	RF RSD	Mean RT	RT RSD	Linear r	Quad COD	LIMIT	Q
1,4-Dichlorobenzene	1.242304	3.039538	13.43778	3.775295E-02			15	
Dichlorodifluoromethane	0.2500923	11.25192	2.026333	0.1256169			15	
1,1-Dichloroethane	0.5652557	3.131601	5.755222	4.671026E-02			SPCC (0.1)	
1,2-Dichloroethane	0.5270445	1.994005	7.474556	5.584797E-02			15	
1,1-Dichloroethene	0.1954273	6.13466	4.236444	9.543841E-02			CCC (20)	
cis-1,2-Dichloroethene	0.2829685	2.11867	6.464222	8.195503E-02			15	
trans-1,2-Dichloroethene	0.2506448	3.158602	5.382333	4.563419E-02			15	
1,2-Dichloroethene (total)	0.2668066	2.184513	0	0			15	
1,2-Dichloropropane	0.3168871	3.213076	8.448889	3.365111E-02			CCC (20)	
1,3-Dichloropropane	0.9575843	4.197904	10.03122	4.193362E-02			15	
2,2-Dichloropropane	0.4264272	3.853406	6.568889	6.836368E-02			15	
1,1-Dichloropropene	0.3980919	2.050297	7.488667	3.238935E-02			15	
cis-1,3-Dichloropropene	0.4720976	4.153466	9.193556	3.964417E-02			15	
trans-1,3-Dichloropropene	1.068367	4.252531	9.664889	3.211923E-02			15	
Diisopropyl Ether	1.376985	3.027222	6.130333	3.859198E-02			15	
Ethylbenzene	2.570008	5.96735	11.19822	2.864721E-02			CCC (20)	
Ethyl tert-Butyl Ether	1.148083	3.042998	6.593333	3.762048E-02			15	
Ethyl Methacrylate	0.9335463	4.599985	9.855	4.943664E-02			15	
Hexachlorobutadiene	0.3004422	6.526226	15.754	1.794061E-02			15	
2-Hexanone	0.6550182	5.36188	9.966889	2.629714E-02			15	
Iodomethane	0.2615534	21.70705	4.432875	6.469751E-02	0.9998293		0.995	
Isopropylbenzene	2.139438	6.266823	12.09589	0.0235622			15	
p-Isopropyltoluene	2.179917	4.194532	13.39289	0.0222104			15	
Methylene chloride	0.2438477	14.39367	4.722222	6.406583E-02			15	
Methyl Acetate	0.2617647	7.499968	4.592	9.512777E-02			15	
Methylcyclohexane	0.3380956	4.79907	8.773778	4.976014E-02			15	
Naphthalene	1.587017	6.01227	15.625	2.181913E-02			15	
Methyl Methacrylate	0.4076502	2.827101	8.581334	3.106002E-02			15	
4-Methyl-2-pentanone	0.4211664	3.007595	9.120111	3.050622E-02			15	
Methyl t-Butyl Ether	0.8435707	2.689572	5.389	8.041854E-02			15	
n-Propylbenzene	3.345849	3.677033	12.505	2.762268E-02			15	
Styrene	1.639751	6.170199	11.67022	2.919399E-02			15	

INITIAL CALIBRATION DATA (Continued)

SW8260B

Laboratory:	Empirical Laboratories, LLC	SDG:	1110003
Client:	Tetra Tech NUS, Inc. (T010)	Project:	Navy Fuel Depot CTO JM46
Calibration:	1258002	Instrument:	MS-VOA6
Matrix:	Water	Calibration Dates:	9/13/11 14:57 9/13/11 18:30

Compound	Mean RF	RF RSD	Mean RT	RT RSD	Linear r	Quad COD	LIMIT	Q
1,1,2,2-Tetrachloroethane	0.8659383	3.529277	12.02267	2.558354E-02			SPCC (0.3)	
1,1,1,2-Tetrachloroethane	0.5256579	6.805975	11.09633	2.565078E-02			15	
tert-Butyl alcohol	0.0314608	4.850766	4.403889	0.1026763			15	
Tetrachloroethene	0.4829744	5.371503	10.39989	2.350423E-02			15	
Toluene	1.31046	2.4204	9.667	3.971049E-02			CCC (20)	
1,2,3-Trichlorobenzene	0.5614884	5.49401	15.91	2.023116E-02			15	
1,2,4-Trichlorobenzene	0.6625627	5.367651	15.47256	2.423506E-02			15	
1,1,2-Trichloroethane	0.457434	1.99802	9.819111	2.430674E-02			15	
1,1,1-Trichloroethane	0.4166082	4.36868	7.270111	0.0409493			15	
Tetrahydrofuran	0.1174198	10.55463	6.934	4.856623E-02			15	
Trichloroethene	0.2737895	3.314345	8.398667	4.706414E-02			15	
Trichlorofluoromethane	0.3989503	5.134027	3.453333	7.408229E-02			15	
1,2,3-Trichloropropane	0.2047482	4.819765	12.14944	2.556525E-02			15	
1,3,5-Trimethylbenzene	2.265207	4.514474	12.68311	1.603748E-02			15	
1,2,4-Trimethylbenzene	2.342389	3.256804	13.05489	3.544193E-02			15	
1,1,2-Trichloro-1,2,2-trifluoroethane	0.2118545	4.855379	4.314	9.308264E-02			15	
Vinyl chloride	0.2569739	4.185694	2.382889	0.1508775			CCC (20)	
m,p-Xylene	1.984228	4.37884	11.31178	4.639836E-02			15	
o-Xylene	2.094506	3.792232	11.70022	2.042205E-02			15	
Vinyl acetate	0.8595446	10.39629	5.833111	4.834157E-02			15	
Xylenes (total)	2.020987	3.822958	0	0			15	
Dibromofluoromethane	0.3115604	1.783618	6.886111	4.295847E-02			15	
1,2-Dichloroethane-d4	6.496203E-02	2.269836	7.380333	3.127819E-02			15	
Toluene-d8	1.972531	1.97295	9.592889	2.660194E-02			15	
tert-Amyl alcohol	2.745498E-02	5.304562	7.098445	5.036191E-02			15	
tert-Amyl ethyl ether	0.9112137	3.795785	8.715778	3.982555E-02			15	

INITIAL CALIBRATION CHECK

SW8260B

Laboratory:	Empirical Laboratories, LLC	SDG:	1110003
Client:	Tetra Tech NUS, Inc. (T010)	Project:	Navy Fuel Depot CTO JM46
Instrument ID:	MS-VOA6	Calibration:	1258002
Lab File ID:	0913ICV2.D	Calibration Date:	09/13/11 14:57
Sequence:	1I25809	Injection Date:	09/13/11
Lab Sample ID:	1I25809-ICV2	Injection Time:	19:51

		CONC. (ug/L)		RESPONSE FACTOR			% DIFF / DRIFT	
COMPOUND	TYPE	STD	ICV	ICAL	ICV	MIN (#)	ICV	LIMIT (#)
Acetone	A	200.0	238.7	0.1205578	0.1438586		19.3	20
Benzene	A	100.0	103.5	1.052433	1.089445		3.5	20
Bromochloromethane	A	100.0	103.8	0.140547	0.1459249		3.8	20
Bromodichloromethane	A	100.0	96.07	0.4135608	0.3973052		-3.9	20
Bromoform	A	100.0	119.5	0.336217	0.4017654	0.1	19.5	20
Bromomethane	A	100.0	107.4	0.1573336	0.1689642		7.4	20
2-Butanone	A	200.0	216.8	0.2170988	0.2352962		8.4	20
Carbon disulfide	A	100.0	86.50	0.6648011	0.5750799		-13.5	20
Carbon tetrachloride	A	100.0	103.0	0.3446436	0.3551161		3.0	20
Chlorobenzene	A	100.0	104.1	1.486087	1.547167	0.3	4.1	20
Chloroethane	A	100.0	100.6	0.1625273	0.163566		0.6	20
Chloroform	A	100.0	96.42	0.5218466	0.5031581		-3.6	20
Chloromethane	A	100.0	91.11	0.2978205	0.271356	0.1	-8.9	20
Cyclohexane	A	100.0	90.95	0.5064566	0.4606125		-9.1	20
Dibromochloromethane	A	100.0	105.9	0.6059921	0.641765		5.9	20
1,2-Dibromo-3-chloropropane	A	100.0	101.1	0.1433564	0.144953		1.1	20
1,2-Dibromoethane (EDB)	A	100.0	102.5	0.5875367	0.6020909		2.5	20
1,2-Dichlorobenzene	A	100.0	102.4	1.165982	1.194183		2.4	20
1,3-Dichlorobenzene	A	100.0	102.5	1.223082	1.254		2.5	20
1,4-Dichlorobenzene	A	100.0	102.7	1.242304	1.276374		2.7	20
Dichlorodifluoromethane	A	100.0	84.81	0.2500923	0.2121029		-15.2	20
1,1-Dichloroethane	A	100.0	102.6	0.5652557	0.5799733	0.1	2.6	20
1,2-Dichloroethane	A	100.0	95.45	0.5270445	0.5030399		-4.6	20
1,1-Dichloroethene	A	100.0	93.81	0.1954273	0.1833252		-6.2	20
cis-1,2-Dichloroethene	A	100.0	102.4	0.2829685	0.2898771		2.4	20
trans-1,2-Dichloroethene	A	100.0	100.6	0.2506448	0.2522233		0.6	20
1,2-Dichloropropane	A	100.0	101.4	0.3168871	0.3214647		1.4	20
cis-1,3-Dichloropropene	A	100.0	103.2	0.4720976	0.4873506		3.2	20
trans-1,3-Dichloropropene	A	100.0	91.94	1.068367	0.9822541		-8.1	20

INITIAL CALIBRATION CHECK

SW8260B

Laboratory:	Empirical Laboratories, LLC	SDG:	1110003
Client:	Tetra Tech NUS, Inc. (T010)	Project:	Navy Fuel Depot CTO JM46
Instrument ID:	MS-VOA6	Calibration:	1258002
Lab File ID:	0913ICV2.D	Calibration Date:	09/13/11 14:57
Sequence:	1I25809	Injection Date:	09/13/11
Lab Sample ID:	1I25809-ICV2	Injection Time:	19:51

		CONC. (ug/L)		RESPONSE FACTOR			% DIFF / DRIFT	
COMPOUND	TYPE	STD	ICV	ICAL	ICV	MIN (#)	ICV	LIMIT (#)
Ethylbenzene	A	100.0	104.6	2.570008	2.687852		4.6	20
2-Hexanone	A	200.0	204.6	0.6550182	0.6699451		2.3	20
Isopropylbenzene	A	100.0	98.82	2.139438	2.114114		-1.2	20
Methylene chloride	A	100.0	91.96	0.2438477	0.2242383		-8.0	20
Methyl Acetate	A	100.0	100.2	0.2617647	0.2623128		0.2	20
Methylcyclohexane	A	100.0	96.41	0.3380956	0.325952		-3.6	20
4-Methyl-2-pentanone	A	200.0	194.9	0.4211664	0.4103278		-2.6	20
Methyl t-Butyl Ether	A	100.0	99.49	0.8435707	0.8392316		-0.5	20
Styrene	A	100.0	105.0	1.639751	1.7217		5.0	20
1,1,2,2-Tetrachloroethane	A	100.0	101.3	0.8659383	0.8774305	0.3	1.3	20
1,1,1,2-Tetrachloroethane	A	100.0	104.9	0.5256579	0.5515382		4.9	20
Tetrachloroethene	A	100.0	104.0	0.4829744	0.5024189		4.0	20
Toluene	A	100.0	103.7	1.31046	1.358779		3.7	20
1,2,3-Trichlorobenzene	A	100.0	96.37	0.5614884	0.5410968		-3.6	20
1,2,4-Trichlorobenzene	A	100.0	97.83	0.6625627	0.648166		-2.2	20
1,1,2-Trichloroethane	A	100.0	103.7	0.457434	0.4745303		3.7	20
1,1,1-Trichloroethane	A	100.0	101.8	0.4166082	0.4242727		1.8	20
Trichloroethene	A	100.0	100.7	0.2737895	0.2756099		0.7	20
Trichlorofluoromethane	A	100.0	97.14	0.3989503	0.3875519		-2.9	20
1,1,2-Trichloro-1,2,2-trifluoroethane	A	100.0	91.49	0.2118545	0.193824		-8.5	20
Vinyl chloride	A	100.0	95.48	0.2569739	0.2453527		-4.5	20
m,p-Xylene	A	200.0	210.1	1.984228	2.084274		5.0	20
o-Xylene	A	100.0	102.3	2.094506	2.142908		2.3	20
Bromofluorobenzene	A	30.00	30.31	0.878475	0.8874272		1.0	20
Dibromofluoromethane	A	30.00	29.89	0.3115604	0.310461		-0.4	20
1,2-Dichloroethane-d4	A	30.00	30.23	6.496203E-02	6.545398E-02		0.8	20
Toluene-d8	A	30.00	30.47	1.972531	2.003656		1.6	20

Column to be used to flag Response Factor and %Diff/Drift values with an asterisk

* Values outside of QC limits

CONTINUING CALIBRATION CHECK

SW8260B

Laboratory:	Empirical Laboratories, LLC	SDG:	1110003
Client:	Tetra Tech NUS, Inc. (T010)	Project:	Navy Fuel Depot CTO JM46
Instrument ID:	MS-VOA6	Calibration:	1258002
Lab File ID:	1005CCV1.D	Calibration Date:	09/13/11 14:57
Sequence:	1J27902	Injection Date:	10/05/11
Lab Sample ID:	1J27902-CCV1	Injection Time:	07:58

		CONC. (ug/L)		RESPONSE FACTOR			% DIFF / DRIFT	
COMPOUND	TYPE	STD	CCV	ICAL	CCV	MIN (#)	CCV	LIMIT (#)
Acetone	A	200.0	268.8	0.1205578	0.1620083		34.4	20 *
Benzene	A	100.0	80.92	1.052433	0.8516142		-19.1	20
Bromochloromethane	A	100.0	86.02	0.140547	0.1208998		-14.0	20
Bromodichloromethane	A	100.0	91.90	0.4135608	0.3800749		-8.1	20
Bromoform	A	100.0	112.1	0.336217	0.3769471	0.1	12.1	20
Bromomethane	A	100.0	42.01	0.1573336	6.609676E-02		-58.0	20 *
2-Butanone	A	200.0	180.7	0.2170988	0.1961701		-9.6	20
Carbon disulfide	A	100.0	87.32	0.6648011	0.5804901		-12.7	20
Carbon tetrachloride	A	100.0	100.1	0.3446436	0.3451053		0.1	20
Chlorobenzene	A	100.0	94.45	1.486087	1.403585	0.3	-5.6	20
Chloroethane	A	100.0	76.32	0.1625273	0.1240356		-23.7	20 *
Chloroform	A	100.0	87.03	0.5218466	0.4541852		-13.0	20
Chloromethane	A	100.0	60.11	0.2978205	0.1790144	0.1	-39.9	20 *
Cyclohexane	A	100.0	79.28	0.5064566	0.4015011		-20.7	20 *
Dibromochloromethane	A	100.0	99.70	0.6059921	0.6041487		-0.3	20
1,2-Dibromo-3-chloropropane	A	100.0	105.0	0.1433564	0.1505655		5.0	20
1,2-Dibromoethane (EDB)	A	100.0	94.25	0.5875367	0.5537395		-5.8	20
1,2-Dichlorobenzene	A	100.0	101.9	1.165982	1.187981		1.9	20
1,3-Dichlorobenzene	A	100.0	100.7	1.223082	1.231853		0.7	20
1,4-Dichlorobenzene	A	100.0	100.8	1.242304	1.252224		0.8	20
Dichlorodifluoromethane	A	100.0	97.05	0.2500923	0.2427152		-2.9	20
1,1-Dichloroethane	A	100.0	77.62	0.5652557	0.438776	0.1	-22.4	20 *
1,2-Dichloroethane	A	100.0	94.55	0.5270445	0.4983258		-5.4	20
1,1-Dichloroethene	A	100.0	80.73	0.1954273	0.1577774		-19.3	20
cis-1,2-Dichloroethene	A	100.0	79.83	0.2829685	0.225886		-20.2	20 *
trans-1,2-Dichloroethene	A	100.0	74.44	0.2506448	0.1865938		-25.6	20 *
1,2-Dichloropropane	A	100.0	81.54	0.3168871	0.2583792		-18.5	20
cis-1,3-Dichloropropene	A	100.0	87.89	0.4720976	0.4149468		-12.1	20
trans-1,3-Dichloropropene	A	100.0	89.19	1.068367	0.9528927		-10.8	20

CONTINUING CALIBRATION CHECK

SW8260B

Laboratory:	Empirical Laboratories, LLC	SDG:	1110003
Client:	Tetra Tech NUS, Inc. (T010)	Project:	Navy Fuel Depot CTO JM46
Instrument ID:	MS-VOA6	Calibration:	1258002
Lab File ID:	1005CCV1.D	Calibration Date:	09/13/11 14:57
Sequence:	1J27902	Injection Date:	10/05/11
Lab Sample ID:	1J27902-CCV1	Injection Time:	07:58

		CONC. (ug/L)		RESPONSE FACTOR			% DIFF / DRIFT	
COMPOUND	TYPE	STD	CCV	ICAL	CCV	MIN (#)	CCV	LIMIT (#)
Ethylbenzene	A	100.0	92.57	2.570008	2.37906		-7.4	20
2-Hexanone	A	200.0	193.9	0.6550182	0.6351081		-3.0	20
Isopropylbenzene	A	100.0	96.56	2.139438	2.065934		-3.4	20
Methylene chloride	A	100.0	76.60	0.2438477	0.1867885		-23.4	20 *
Methyl Acetate	A	100.0	65.80	0.2617647	0.1722437		-34.2	20 *
Methylcyclohexane	A	100.0	88.64	0.3380956	0.2996713		-11.4	20
4-Methyl-2-pentanone	A	200.0	161.7	0.4211664	0.3404674		-19.2	20
Methyl t-Butyl Ether	A	100.0	74.70	0.8435707	0.6301563		-25.3	20 *
Styrene	A	100.0	94.00	1.639751	1.5414		-6.0	20
1,1,2,2-Tetrachloroethane	A	100.0	94.85	0.8659383	0.8213589	0.3	-5.1	20
1,1,1,2-Tetrachloroethane	A	100.0	96.69	0.5256579	0.5082854		-3.3	20
Tetrachloroethene	A	100.0	94.80	0.4829744	0.4578618		-5.2	20
Toluene	A	100.0	87.16	1.31046	1.142156		-12.8	20
1,2,3-Trichlorobenzene	A	100.0	124.1	0.5614884	0.6966967		24.1	20 *
1,2,4-Trichlorobenzene	A	100.0	118.1	0.6625627	0.782559		18.1	20
1,1,2-Trichloroethane	A	100.0	84.68	0.457434	0.3873624		-15.3	20
1,1,1-Trichloroethane	A	100.0	96.95	0.4166082	0.4038877		-3.1	20
Trichloroethene	A	100.0	90.72	0.2737895	0.2483738		-9.3	20
Trichlorofluoromethane	A	100.0	89.22	0.3989503	0.355957		-10.8	20
1,1,2-Trichloro-1,2,2-trifluoroethane	A	100.0	84.68	0.2118545	0.1793938		-15.3	20
Vinyl chloride	A	100.0	89.47	0.2569739	0.2299248		-10.5	20
m,p-Xylene	A	200.0	190.6	1.984228	1.891		-4.7	20
o-Xylene	A	100.0	92.28	2.094506	1.932714		-7.7	20
Bromofluorobenzene	A	30.00	31.86	0.878475	0.9328344		6.2	20
Dibromofluoromethane	A	30.00	29.77	0.3115604	0.3092114		-0.8	20
1,2-Dichloroethane-d4	A	30.00	29.15	6.496203E-02	6.312891E-02		-2.8	20
Toluene-d8	A	30.00	32.58	1.972531	2.142195		8.6	20

Column to be used to flag Response Factor and %Diff/Drift values with an asterisk

* Values outside of QC limits

ANALYSIS DATA SHEET

Blank

Laboratory: Empirical Laboratories, LLC SDG: 1110003

Client: Tetra Tech NUS, Inc. (T010) Project: Navy Fuel Depot CTO JM46

Matrix: Laboratory ID: 1J05008-BLK1 File ID: 1005BLK1.D

Sampled: Prepared: Analyzed: 10/05/11 09:43

Solids: Preparation: 5030B Dilution:

Batch: 1J05008 Sequence: 1J27902 Calibration: 1258002 Instrument: MS-VOA6

CAS NO.	COMPOUND	CONC. (ug/L)	DL	LOD	LOQ	Q
67-64-1	Acetone		2.50	5.00	10.0	X, U
71-43-2	Benzene		0.250	0.500	1.00	U
74-97-5	Bromochloromethane		0.500	1.00	2.00	U
75-27-4	Bromodichloromethane		0.250	0.500	1.00	U
75-25-2	Bromoform		0.250	0.500	1.00	U
74-83-9	Bromomethane		0.500	1.00	2.00	Y, U
78-93-3	2-Butanone		2.50	5.00	10.0	U
75-15-0	Carbon disulfide		0.250	0.500	1.00	U
56-23-5	Carbon tetrachloride		0.250	0.500	1.00	U
108-90-7	Chlorobenzene		0.250	0.500	1.00	U
75-00-3	Chloroethane		0.500	1.00	2.00	Y, U
67-66-3	Chloroform		0.250	0.500	1.00	U
74-87-3	Chloromethane		0.500	1.00	2.00	Y, U
110-82-7	Cyclohexane		0.500	1.00	2.00	Y, U
124-48-1	Dibromochloromethane		0.250	0.500	1.00	U
96-12-8	1,2-Dibromo-3-chloropropane		0.500	1.00	2.00	U
106-93-4	1,2-Dibromoethane (EDB)		0.250	0.500	1.00	U
95-50-1	1,2-Dichlorobenzene		0.250	0.500	1.00	U
541-73-1	1,3-Dichlorobenzene		0.250	0.500	1.00	U
106-46-7	1,4-Dichlorobenzene		0.250	0.500	1.00	U
75-71-8	Dichlorodifluoromethane		0.500	1.00	2.00	U
75-34-3	1,1-Dichloroethane		0.250	0.500	1.00	Y, U
107-06-2	1,2-Dichloroethane		0.250	0.500	1.00	U
75-35-4	1,1-Dichloroethene		0.250	0.500	1.00	U
156-59-2	cis-1,2-Dichloroethene		0.250	0.500	1.00	Y, U
156-60-5	trans-1,2-Dichloroethene		0.250	0.500	1.00	Y, U
78-87-5	1,2-Dichloropropane		0.250	0.500	1.00	U
10061-01-5	cis-1,3-Dichloropropene		0.250	0.500	1.00	U
10061-02-6	trans-1,3-Dichloropropene		0.250	0.500	1.00	U
100-41-4	Ethylbenzene		0.250	0.500	1.00	U
591-78-6	2-Hexanone		0.250	2.50	5.00	U
98-82-8	Isopropylbenzene		0.250	0.500	1.00	U
75-09-2	Methylene chloride		0.500	1.00	2.00	Y, U
79-20-9	Methyl Acetate		0.500	1.00	2.00	Y, U
108-87-2	Methylcyclohexane		0.250	0.500	1.00	U
108-10-1	4-Methyl-2-pentanone		1.25	2.50	5.00	U
1634-04-4	Methyl t-Butyl Ether		0.250	0.500	1.00	Y, U
100-42-5	Styrene		0.250	0.500	1.00	U
79-34-5	1,1,2,2-Tetrachloroethane		0.200	0.500	1.00	U
630-20-6	1,1,1,2-Tetrachloroethane		0.250	0.500	1.00	U

ANALYSIS DATA SHEET

Blank

Laboratory: Empirical Laboratories, LLC SDG: 1110003

Client: Tetra Tech NUS, Inc. (T010) Project: Navy Fuel Depot CTO JM46

Matrix: Laboratory ID: 1J05008-BLK1 File ID: 1005BLK1.D

Sampled: Prepared: Analyzed: 10/05/11 09:43

Solids: Preparation: 5030B Dilution:

Batch: 1J05008 Sequence: 1J27902 Calibration: 1258002 Instrument: MS-VOA6

CAS NO.	COMPOUND	CONC. (ug/L)	DL	LOD	LOQ	Q
127-18-4	Tetrachloroethene		0.250	0.500	1.00	U
108-88-3	Toluene		0.250	0.500	1.00	U
87-61-6	1,2,3-Trichlorobenzene		0.250	0.500	1.00	X, U
120-82-1	1,2,4-Trichlorobenzene		0.250	0.500	1.00	U
79-00-5	1,1,2-Trichloroethane		0.250	0.500	1.00	U
71-55-6	1,1,1-Trichloroethane		0.250	0.500	1.00	U
79-01-6	Trichloroethene		0.250	0.500	1.00	U
75-69-4	Trichlorofluoromethane		0.500	1.00	2.00	U
76-13-1	1,1,2-Trichloro-1,2,2-trifluoroethane		0.250	0.500	1.00	U
75-01-4	Vinyl chloride		0.250	0.500	1.00	U
108-38-3/106-42-	m,p-Xylene		0.500	1.00	2.00	U
95-47-6	o-Xylene		0.250	0.500	1.00	U

SYSTEM MONITORING COMPOUND	ADDED (ug/L)	CONC (ug/L)	% REC	QC LIMITS	Q
Bromofluorobenzene	30.00	30.25	101	75 - 120	
Dibromofluoromethane	30.00	30.77	103	85 - 115	
1,2-Dichloroethane-d4	30.00	29.90	99.7	70 - 120	
Toluene-d8	30.00	31.26	104	85 - 120	

ANALYSIS DATA SHEET

LCS

Laboratory: Empirical Laboratories, LLC SDG: 1110003

Client: Tetra Tech NUS, Inc. (T010) Project: Navy Fuel Depot CTO JM46

Matrix: Laboratory ID: 1J05008-BS1 File ID: 1005LCS1.D

Sampled: Prepared: Analyzed: 10/05/11 08:24

Solids: Preparation: 5030B Dilution:

Batch: 1J05008 Sequence: 1J27902 Calibration: 1258002 Instrument: MS-VOA6

CAS NO.	COMPOUND	CONC. (ug/L)	DL	LOD	LOQ	Q
67-64-1	Acetone	67.8	2.50	5.00	10.0	X
71-43-2	Benzene	40.2	0.250	0.500	1.00	
74-97-5	Bromochloromethane	43.3	0.500	1.00	2.00	
75-27-4	Bromodichloromethane	42.1	0.250	0.500	1.00	
75-25-2	Bromoform	51.3	0.250	0.500	1.00	
74-83-9	Bromomethane	20.0	0.500	1.00	2.00	Y
78-93-3	2-Butanone	69.7	2.50	5.00	10.0	
75-15-0	Carbon disulfide	35.1	0.250	0.500	1.00	
56-23-5	Carbon tetrachloride	46.9	0.250	0.500	1.00	
108-90-7	Chlorobenzene	46.0	0.250	0.500	1.00	
75-00-3	Chloroethane	44.1	0.500	1.00	2.00	Y
67-66-3	Chloroform	42.5	0.250	0.500	1.00	
74-87-3	Chloromethane	32.0	0.500	1.00	2.00	Y
110-82-7	Cyclohexane	34.3	0.500	1.00	2.00	Y
124-48-1	Dibromochloromethane	45.4	0.250	0.500	1.00	
96-12-8	1,2-Dibromo-3-chloropropane	48.6	0.500	1.00	2.00	
106-93-4	1,2-Dibromoethane (EDB)	44.7	0.250	0.500	1.00	
95-50-1	1,2-Dichlorobenzene	49.1	0.250	0.500	1.00	
541-73-1	1,3-Dichlorobenzene	48.8	0.250	0.500	1.00	
106-46-7	1,4-Dichlorobenzene	49.1	0.250	0.500	1.00	
75-71-8	Dichlorodifluoromethane	44.7	0.500	1.00	2.00	
75-34-3	1,1-Dichloroethane	41.5	0.250	0.500	1.00	Y
107-06-2	1,2-Dichloroethane	44.6	0.250	0.500	1.00	
75-35-4	1,1-Dichloroethene	39.7	0.250	0.500	1.00	
156-59-2	cis-1,2-Dichloroethene	40.6	0.250	0.500	1.00	Y
156-60-5	trans-1,2-Dichloroethene	40.0	0.250	0.500	1.00	Y
78-87-5	1,2-Dichloropropane	39.7	0.250	0.500	1.00	
10061-01-5	cis-1,3-Dichloropropene	42.9	0.250	0.500	1.00	
10061-02-6	trans-1,3-Dichloropropene	39.0	0.250	0.500	1.00	
100-41-4	Ethylbenzene	45.1	0.250	0.500	1.00	
591-78-6	2-Hexanone	77.0	0.250	2.50	5.00	
98-82-8	Isopropylbenzene	44.5	0.250	0.500	1.00	
75-09-2	Methylene chloride	37.6	0.500	1.00	2.00	Y
79-20-9	Methyl Acetate	36.6	0.500	1.00	2.00	Y
108-87-2	Methylcyclohexane	39.8	0.250	0.500	1.00	
108-10-1	4-Methyl-2-pentanone	77.0	1.25	2.50	5.00	
1634-04-4	Methyl t-Butyl Ether	39.4	0.250	0.500	1.00	Y
100-42-5	Styrene	45.0	0.250	0.500	1.00	
79-34-5	1,1,2,2-Tetrachloroethane	45.6	0.200	0.500	1.00	
630-20-6	1,1,1,2-Tetrachloroethane	46.4	0.250	0.500	1.00	

ANALYSIS DATA SHEET

LCS

Laboratory: Empirical Laboratories, LLC SDG: 1110003

Client: Tetra Tech NUS, Inc. (T010) Project: Navy Fuel Depot CTO JM46

Matrix: Laboratory ID: 1J05008-BS1 File ID: 1005LCS1.D

Sampled: Prepared: Analyzed: 10/05/11 08:24

Solids: Preparation: 5030B Dilution:

Batch: 1J05008 Sequence: 1J27902 Calibration: 1258002 Instrument: MS-VOA6

CAS NO.	COMPOUND	CONC. (ug/L)	DL	LOD	LOQ	Q
127-18-4	Tetrachloroethene	46.3	0.250	0.500	1.00	
108-88-3	Toluene	43.4	0.250	0.500	1.00	
87-61-6	1,2,3-Trichlorobenzene	60.7	0.250	0.500	1.00	X
120-82-1	1,2,4-Trichlorobenzene	57.3	0.250	0.500	1.00	
79-00-5	1,1,2-Trichloroethane	41.9	0.250	0.500	1.00	
71-55-6	1,1,1-Trichloroethane	46.8	0.250	0.500	1.00	
79-01-6	Trichloroethene	43.1	0.250	0.500	1.00	
75-69-4	Trichlorofluoromethane	46.5	0.500	1.00	2.00	
76-13-1	1,1,2-Trichloro-1,2,2-trifluoroethane	40.1	0.250	0.500	1.00	
75-01-4	Vinyl chloride	50.7	0.250	0.500	1.00	
108-38-3/106-42-	m,p-Xylene	92.5	0.500	1.00	2.00	
95-47-6	o-Xylene	44.6	0.250	0.500	1.00	

SYSTEM MONITORING COMPOUND	ADDED (ug/L)	CONC (ug/L)	% REC	QC LIMITS	Q
Bromofluorobenzene	30.00	30.43	101	75 - 120	
Dibromofluoromethane	30.00	29.23	97.4	85 - 115	
1,2-Dichloroethane-d4	30.00	28.29	94.3	70 - 120	
Toluene-d8	30.00	32.18	107	85 - 120	

ANALYSIS DATA SHEET

Matrix Spike

Laboratory: Empirical Laboratories, LLC SDG: 1110003

Client: Tetra Tech NUS, Inc. (T010) Project: Navy Fuel Depot CTO JM46

Matrix: Laboratory ID: 1J05008-MS1 File ID: 1000312M.D

Sampled: Prepared: Analyzed: 10/05/11 18:09

Solids: Preparation: 5030B Dilution:

Batch: 1J05008 Sequence: 1J27902 Calibration: 1258002 Instrument: MS-VOA6

CAS NO.	COMPOUND	CONC. (ug/L)	DL	LOD	LOQ	Q
67-64-1	Acetone	82.9	2.50	5.00	10.0	X
71-43-2	Benzene	42.6	0.250	0.500	1.00	
74-97-5	Bromochloromethane	45.2	0.500	1.00	2.00	
75-27-4	Bromodichloromethane	43.5	0.250	0.500	1.00	
75-25-2	Bromoform	48.5	0.250	0.500	1.00	
74-83-9	Bromomethane	15.3	0.500	1.00	2.00	Y
78-93-3	2-Butanone	70.9	2.50	5.00	10.0	
75-15-0	Carbon disulfide	43.0	0.250	0.500	1.00	
56-23-5	Carbon tetrachloride	52.6	0.250	0.500	1.00	
108-90-7	Chlorobenzene	46.9	0.250	0.500	1.00	
75-00-3	Chloroethane	53.1	0.500	1.00	2.00	Y
67-66-3	Chloroform	46.3	0.250	0.500	1.00	
74-87-3	Chloromethane	37.6	0.500	1.00	2.00	Y
110-82-7	Cyclohexane	35.1	0.500	1.00	2.00	Y
124-48-1	Dibromochloromethane	44.8	0.250	0.500	1.00	
96-12-8	1,2-Dibromo-3-chloropropane	48.5	0.500	1.00	2.00	
106-93-4	1,2-Dibromoethane (EDB)	43.9	0.250	0.500	1.00	
95-50-1	1,2-Dichlorobenzene	48.1	0.250	0.500	1.00	
541-73-1	1,3-Dichlorobenzene	47.9	0.250	0.500	1.00	
106-46-7	1,4-Dichlorobenzene	48.4	0.250	0.500	1.00	
75-71-8	Dichlorodifluoromethane	50.1	0.500	1.00	2.00	
75-34-3	1,1-Dichloroethane	43.1	0.250	0.500	1.00	Y
107-06-2	1,2-Dichloroethane	47.5	0.250	0.500	1.00	
75-35-4	1,1-Dichloroethene	41.4	0.250	0.500	1.00	
156-59-2	cis-1,2-Dichloroethene	43.7	0.250	0.500	1.00	Y
156-60-5	trans-1,2-Dichloroethene	41.4	0.250	0.500	1.00	Y
78-87-5	1,2-Dichloropropane	41.0	0.250	0.500	1.00	
10061-01-5	cis-1,3-Dichloropropene	42.5	0.250	0.500	1.00	
10061-02-6	trans-1,3-Dichloropropene	37.2	0.250	0.500	1.00	
100-41-4	Ethylbenzene	48.3	0.250	0.500	1.00	
591-78-6	2-Hexanone	75.5	0.250	2.50	5.00	
98-82-8	Isopropylbenzene	45.4	0.250	0.500	1.00	
75-09-2	Methylene chloride	44.0	0.500	1.00	2.00	Y
79-20-9	Methyl Acetate	41.0	0.500	1.00	2.00	Y
108-87-2	Methylcyclohexane	33.6	0.250	0.500	1.00	
108-10-1	4-Methyl-2-pentanone	77.9	1.25	2.50	5.00	
1634-04-4	Methyl t-Butyl Ether	37.6	0.250	0.500	1.00	Y
100-42-5	Styrene	47.2	0.250	0.500	1.00	
79-34-5	1,1,2,2-Tetrachloroethane	44.4	0.200	0.500	1.00	
630-20-6	1,1,1,2-Tetrachloroethane	44.8	0.250	0.500	1.00	

ANALYSIS DATA SHEET

Matrix Spike

Laboratory: Empirical Laboratories, LLC SDG: 1110003

Client: Tetra Tech NUS, Inc. (T010) Project: Navy Fuel Depot CTO JM46

Matrix: Laboratory ID: 1J05008-MS1 File ID: 1000312M.D

Sampled: Prepared: Analyzed: 10/05/11 18:09

Solids: Preparation: 5030B Dilution:

Batch: 1J05008 Sequence: 1J27902 Calibration: 1258002 Instrument: MS-VOA6

CAS NO.	COMPOUND	CONC. (ug/L)	DL	LOD	LOQ	Q
127-18-4	Tetrachloroethene	46.4	0.250	0.500	1.00	
108-88-3	Toluene	44.0	0.250	0.500	1.00	
87-61-6	1,2,3-Trichlorobenzene	51.5	0.250	0.500	1.00	X
120-82-1	1,2,4-Trichlorobenzene	47.6	0.250	0.500	1.00	
79-00-5	1,1,2-Trichloroethane	39.9	0.250	0.500	1.00	
71-55-6	1,1,1-Trichloroethane	52.3	0.250	0.500	1.00	
79-01-6	Trichloroethene	47.3	0.250	0.500	1.00	
75-69-4	Trichlorofluoromethane	53.5	0.500	1.00	2.00	
76-13-1	1,1,2-Trichloro-1,2,2-trifluoroethane	41.0	0.250	0.500	1.00	
75-01-4	Vinyl chloride	53.5	0.250	0.500	1.00	
108-38-3/106-42-	m,p-Xylene	98.4	0.500	1.00	2.00	
95-47-6	o-Xylene	49.7	0.250	0.500	1.00	

SYSTEM MONITORING COMPOUND	ADDED (ug/L)	CONC (ug/L)	% REC	QC LIMITS	Q
Bromofluorobenzene	30.00	31.23	104	75 - 120	
Dibromofluoromethane	30.00	30.16	101	85 - 115	
1,2-Dichloroethane-d4	30.00	27.68	92.3	70 - 120	
Toluene-d8	30.00	30.26	101	85 - 120	

ANALYSIS DATA SHEET

Matrix Spike Dup

Laboratory: Empirical Laboratories, LLC SDG: 1110003

Client: Tetra Tech NUS, Inc. (T010) Project: Navy Fuel Depot CTO JM46

Matrix: Laboratory ID: 1J05008-MSD1 File ID: 1000312S.D

Sampled: Prepared: Analyzed: 10/05/11 18:36

Solids: Preparation: 5030B Dilution:

Batch: 1J05008 Sequence: 1J27902 Calibration: 1258002 Instrument: MS-VOA6

CAS NO.	COMPOUND	CONC. (ug/L)	DL	LOD	LOQ	Q
67-64-1	Acetone	92.9	2.50	5.00	10.0	X
71-43-2	Benzene	42.3	0.250	0.500	1.00	
74-97-5	Bromochloromethane	44.2	0.500	1.00	2.00	
75-27-4	Bromodichloromethane	42.3	0.250	0.500	1.00	
75-25-2	Bromoform	49.3	0.250	0.500	1.00	
74-83-9	Bromomethane	14.3	0.500	1.00	2.00	Y
78-93-3	2-Butanone	76.8	2.50	5.00	10.0	
75-15-0	Carbon disulfide	40.4	0.250	0.500	1.00	
56-23-5	Carbon tetrachloride	49.0	0.250	0.500	1.00	
108-90-7	Chlorobenzene	46.6	0.250	0.500	1.00	
75-00-3	Chloroethane	68.0	0.500	1.00	2.00	Y
67-66-3	Chloroform	44.0	0.250	0.500	1.00	
74-87-3	Chloromethane	40.8	0.500	1.00	2.00	Y
110-82-7	Cyclohexane	34.7	0.500	1.00	2.00	Y
124-48-1	Dibromochloromethane	44.0	0.250	0.500	1.00	
96-12-8	1,2-Dibromo-3-chloropropane	52.6	0.500	1.00	2.00	
106-93-4	1,2-Dibromoethane (EDB)	45.1	0.250	0.500	1.00	
95-50-1	1,2-Dichlorobenzene	49.3	0.250	0.500	1.00	
541-73-1	1,3-Dichlorobenzene	48.0	0.250	0.500	1.00	
106-46-7	1,4-Dichlorobenzene	49.2	0.250	0.500	1.00	
75-71-8	Dichlorodifluoromethane	51.1	0.500	1.00	2.00	
75-34-3	1,1-Dichloroethane	42.6	0.250	0.500	1.00	Y
107-06-2	1,2-Dichloroethane	45.4	0.250	0.500	1.00	
75-35-4	1,1-Dichloroethene	42.6	0.250	0.500	1.00	
156-59-2	cis-1,2-Dichloroethene	43.3	0.250	0.500	1.00	Y
156-60-5	trans-1,2-Dichloroethene	41.6	0.250	0.500	1.00	Y
78-87-5	1,2-Dichloropropane	41.0	0.250	0.500	1.00	
10061-01-5	cis-1,3-Dichloropropene	42.4	0.250	0.500	1.00	
10061-02-6	trans-1,3-Dichloropropene	37.9	0.250	0.500	1.00	
100-41-4	Ethylbenzene	47.7	0.250	0.500	1.00	
591-78-6	2-Hexanone	83.0	0.250	2.50	5.00	
98-82-8	Isopropylbenzene	44.7	0.250	0.500	1.00	
75-09-2	Methylene chloride	39.8	0.500	1.00	2.00	Y
79-20-9	Methyl Acetate	38.6	0.500	1.00	2.00	Y
108-87-2	Methylcyclohexane	33.2	0.250	0.500	1.00	
108-10-1	4-Methyl-2-pentanone	82.1	1.25	2.50	5.00	
1634-04-4	Methyl t-Butyl Ether	37.9	0.250	0.500	1.00	Y
100-42-5	Styrene	45.6	0.250	0.500	1.00	
79-34-5	1,1,2,2-Tetrachloroethane	46.9	0.200	0.500	1.00	
630-20-6	1,1,1,2-Tetrachloroethane	45.0	0.250	0.500	1.00	

ANALYSIS DATA SHEET

Matrix Spike Dup

Laboratory: Empirical Laboratories, LLC SDG: 1110003

Client: Tetra Tech NUS, Inc. (T010) Project: Navy Fuel Depot CTO JM46

Matrix: Laboratory ID: 1J05008-MSD1 File ID: 1000312S.D

Sampled: Prepared: Analyzed: 10/05/11 18:36

Solids: Preparation: 5030B Dilution:

Batch: 1J05008 Sequence: 1J27902 Calibration: 1258002 Instrument: MS-VOA6

CAS NO.	COMPOUND	CONC. (ug/L)	DL	LOD	LOQ	Q
127-18-4	Tetrachloroethene	46.4	0.250	0.500	1.00	
108-88-3	Toluene	44.9	0.250	0.500	1.00	
87-61-6	1,2,3-Trichlorobenzene	51.4	0.250	0.500	1.00	X
120-82-1	1,2,4-Trichlorobenzene	48.6	0.250	0.500	1.00	
79-00-5	1,1,2-Trichloroethane	41.7	0.250	0.500	1.00	
71-55-6	1,1,1-Trichloroethane	49.4	0.250	0.500	1.00	
79-01-6	Trichloroethene	45.4	0.250	0.500	1.00	
75-69-4	Trichlorofluoromethane	52.6	0.500	1.00	2.00	
76-13-1	1,1,2-Trichloro-1,2,2-trifluoroethane	40.8	0.250	0.500	1.00	
75-01-4	Vinyl chloride	57.9	0.250	0.500	1.00	
108-38-3/106-42-	m,p-Xylene	96.9	0.500	1.00	2.00	
95-47-6	o-Xylene	47.9	0.250	0.500	1.00	

SYSTEM MONITORING COMPOUND	ADDED (ug/L)	CONC (ug/L)	% REC	QC LIMITS	Q
Bromofluorobenzene	30.00	30.92	103	75 - 120	
Dibromofluoromethane	30.00	29.48	98.3	85 - 115	
1,2-Dichloroethane-d4	30.00	28.31	94.4	70 - 120	
Toluene-d8	30.00	32.15	107	85 - 120	

HOLDING TIME SUMMARY

SW8260B

Laboratory: Empirical Laboratories, LLC SDG: 1110003

Client: Tetra Tech NUS, Inc. (T010) Project: Navy Fuel Depot CTO JM46

Sample Name	Date Collected	Date Received	Date Prepared	Days to Prep	Max Days to Prep	Date Analyzed	Days to Analysis	Max Days to Analysis	Q
FLC-4-MW01-092911	09/29/11 08:20	10/01/11 09:10	10/05/11 00:00	N/A	14.00	10/05/11 12:49	6.23	14.00	
FLC-4-MW02-092911	09/29/11 09:30	10/01/11 09:10	10/05/11 00:00	N/A	14.00	10/05/11 13:16	6.20	14.00	
FLC-5-MW05-092911	09/29/11 11:25	10/01/11 09:10	10/05/11 00:00	N/A	14.00	10/05/11 13:43	6.14	14.00	
FLC-5-MW04-092911	09/29/11 12:50	10/01/11 09:10	10/05/11 00:00	N/A	14.00	10/05/11 14:09	6.10	14.00	
FLC-5-MW03-092911	09/29/11 14:00	10/01/11 09:10	10/05/11 00:00	N/A	14.00	10/05/11 14:36	6.07	14.00	
FLC-RB02-092911	09/29/11 14:35	10/01/11 09:10	10/05/11 00:00	N/A	14.00	10/05/11 11:03	5.89	14.00	
FLC-5-MW01-092911	09/30/11 09:15	10/01/11 09:10	10/05/11 00:00	N/A	14.00	10/05/11 15:03	5.28	14.00	
FLC-5-MW02-092911	09/30/11 11:05	10/01/11 09:10	10/05/11 00:00	N/A	14.00	10/05/11 15:29	5.23	14.00	
TRIP BLANK	09/30/11 00:00	10/01/11 09:10	10/05/11 00:00	N/A	14.00	10/05/11 11:29	5.52	14.00	

Data for SW8260B
Supporting Raw Data / Logs

Comment: 8260B
Operator: ADM
Data Path: d:\DATA\091311V6\
Pre-Seq Cmd:
Post-Seq Cmd:

Ma 9/13/11

990

Method Sections To Run
(X) Full Method
( ) Reprocessing Only

On A Barcode Mismatch
(X) Inject Anyway
( ) Don't Inject

Line	Type	Vial	DataFile	Method	Sample Name
1	Sample	50	0913TUN1	VW6SUR	SEQ-TUN1 13:38, 9/13
2	Blank	100	BLANK1	VW6SUR	BLANK;;;;;
3	Blank	100	BLANK2	VW6SUR	BLANK;;;;;
4	Sample	1	0913CAL1	VW6SUR	SEQ-CAL1;;;;;
5	Sample	2	0913CAL2	VW6SUR	SEQ-CAL2;;;;;
6	Sample	3	0913CAL3	VW6SUR	SEQ-CAL3;;;;;
7	Sample	4	0913CAL4	VW6SUR	SEQ-CAL4;;;;;
8	Sample	5	0913CAL5	VW6SUR	SEQ-CAL5;;;;;
9	Sample	6	0913CAL6	VW6SUR	SEQ-CAL6;;;;;
10	Sample	7	0913CAL7	VW6SUR	SEQ-CAL7;;;;;
11	Sample	8	0913CAL8	VW6SUR	SEQ-CAL8;;;;;
12	Sample	9	0913CAL9	VW6SUR	SEQ-CAL9;;;;;
13	Blank	10	BLANK3	VW6SUR	BLANK;;;;;
14	Spike	11	0913ICV1	VW6SUR	SEQ-ICV1;;;;;
15	Spike	12	0913ICV2	VW6SUR	SEQ-ICV2;;;;;
16	Blank	100	BLANK4	VW6SUR	BLANK;;;;;
17	Sample	51	0913TUN2	VW6SUR	SEQ-TUN2 5:53, 9/14
18	Spike	13	0913ICV3	VW6SUR	SEQ-ICV3;;;;;

1 CAL

HW

Last Modified: Wed Sep 14 05:03:31 2011

Data File: \\ELABNSH05\TARGET\chem\voa6.i\091311V6.b\0913TUN1.D

Date : 13-SEP-2011 13:38

Client ID: 25ppb BFB

Instrument: voa6.i

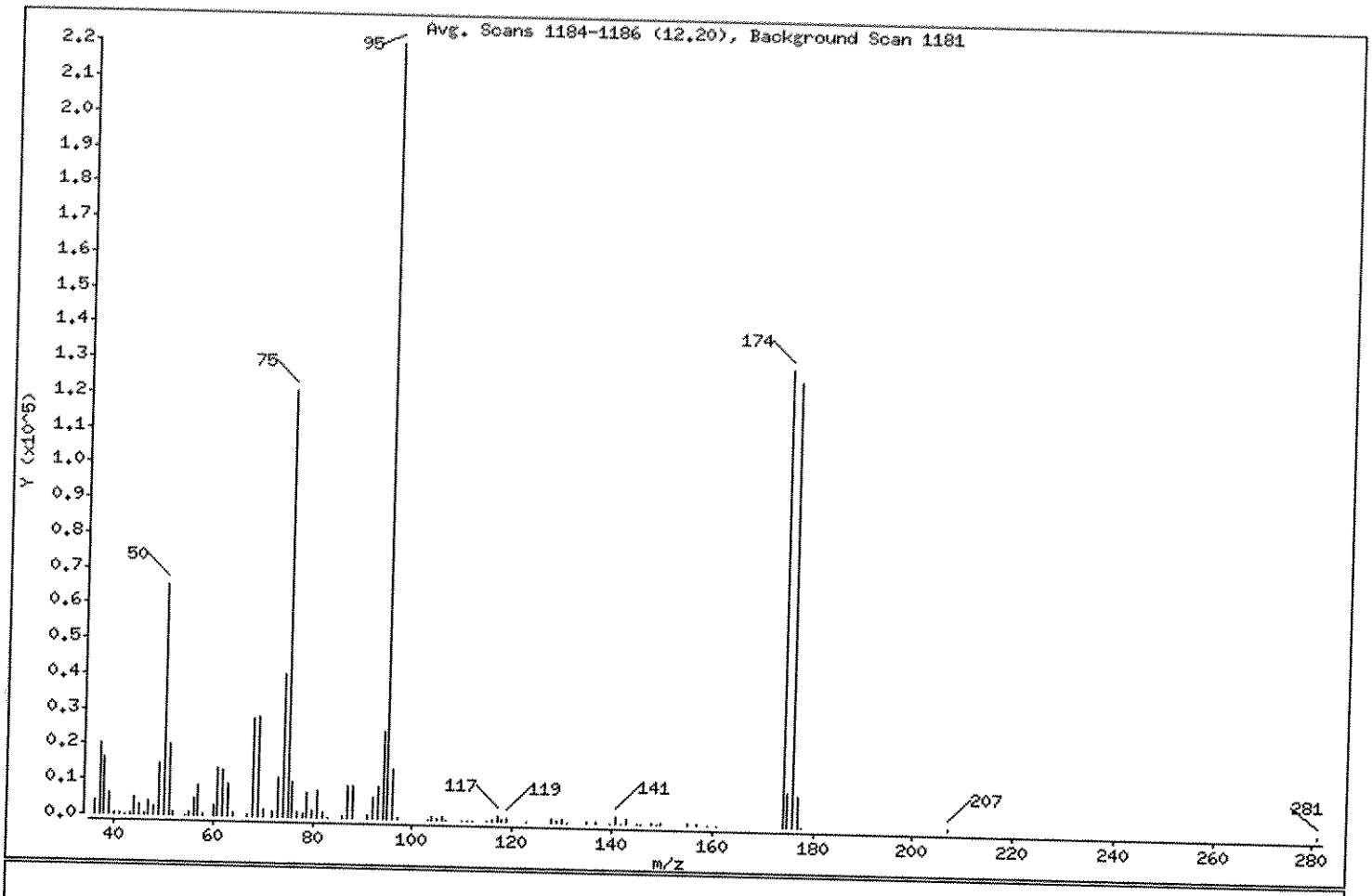
Sample Info: SEQ-TUN1

Operator: ADM

Column phase: RTX-VRX

Column diameter: 0.25

1 bfb



m/e	ION ABUNDANCE CRITERIA	% RELATIVE ABUNDANCE
95	Base Peak, 100% relative abundance	100.00
50	15.00 - 40.00% of mass 95	29.56
75	30.00 - 60.00% of mass 95	54.90
96	5.00 - 9.00% of mass 95	6.49
173	Less than 2.00% of mass 174	0.00 (0.00)
174	Greater than 50.00% of mass 95	58.83
175	5.00 - 9.00% of mass 174	4.34 (7.37)
176	95.00 - 101.00% of mass 174	57.29 (97.38)
177	5.00 - 9.00% of mass 176	3.85 (6.71)

09/13/11

MA 9/13/11

Data File: \\ELABNSHO5\TARGET\chem\voa6.i\091311V6.b\0913TUN1.D

Date : 13-SEP-2011 13:38

Client ID: 25ppb BFB

Instrument: voa6.i

Sample Info: SEQ-TUN1

Operator: ADM

Column phase: RTX-VRX

Column diameter: 0.25

Data File: 0913TUN1.D

Spectrum: Avg. Scans 1184-1186 (12.20), Background Scan 1181

Location of Maximum: 94.95

Number of points: 93

m/z	Y	m/z	Y	m/z	Y	m/z	Y
35.95	4035	62.00	13385	92.95	9037	136.85	319
36.95	20112	63.00	9129	93.95	24744	139.80	161
37.95	16408	63.95	906	94.95	220160	140.90	1834
39.00	5970	66.90	740	96.00	14290	141.85	176
39.90	583	67.90	28008	97.00	338	142.85	1709
41.00	458	69.00	28208	102.90	246	144.85	158
41.95	209	70.00	1971	103.80	847	145.80	202
43.05	646	71.95	1760	104.90	423	147.90	366
43.95	4840	72.95	11062	105.80	956	148.85	153
44.95	3123	73.90	40336	106.75	239	149.75	312
46.00	268	75.00	120872	109.90	169	154.90	296
46.90	3808	76.00	10003	110.90	170	156.85	317
47.90	2392	77.00	1514	111.90	195	158.95	201
49.00	14702	77.85	1017	114.85	205	160.80	202
49.95	65088	78.85	7098	115.85	752	173.90	129520
50.95	20296	79.85	1984	116.90	1419	174.90	9548
51.95	919	80.85	7472	117.80	757	175.90	126128
54.20	159	81.80	1435	118.90	1160	176.90	8468
54.90	1154	83.00	181	122.85	151	177.75	238
56.00	5067	85.85	257	127.85	760	206.95	331
56.95	8487	86.95	9116	128.85	366	281.00	299
57.95	669	87.95	8880	129.85	802		
59.90	2944	90.90	1051	130.90	212		
60.90	13696	91.95	5974	134.85	421		

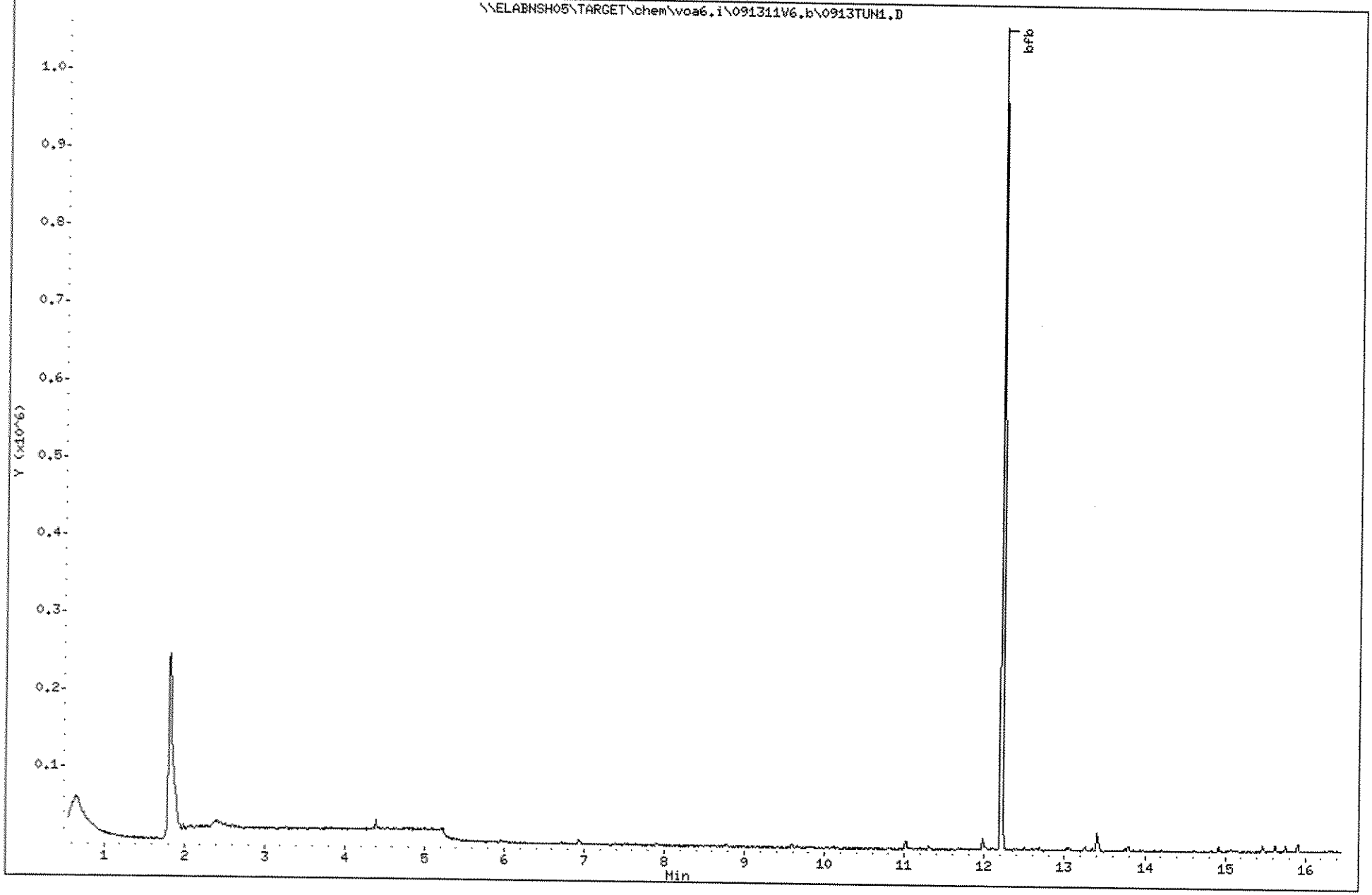
Data File: \\ELABNSH05\TARGET\chem\voa6.i\091311V6.b\0913TUN1.D
Date : 13-SEP-2011 13:38
Client ID: 25ppb BFB
Sample Info: SEQ-TUN1

Instrument: voa6.i

Operator: ADM

Column phase: RTX-VRX

Column diameter: 0.25



Data File: \\ELABNSH05\TARGET\chem\voa6.i\091311V6.b\0913TUN2.D

Date : 14-SEP-2011 05:53

Client ID: 25ppb BFB

Instrument: voa6.i

Sample Info: SEQ-TUN2

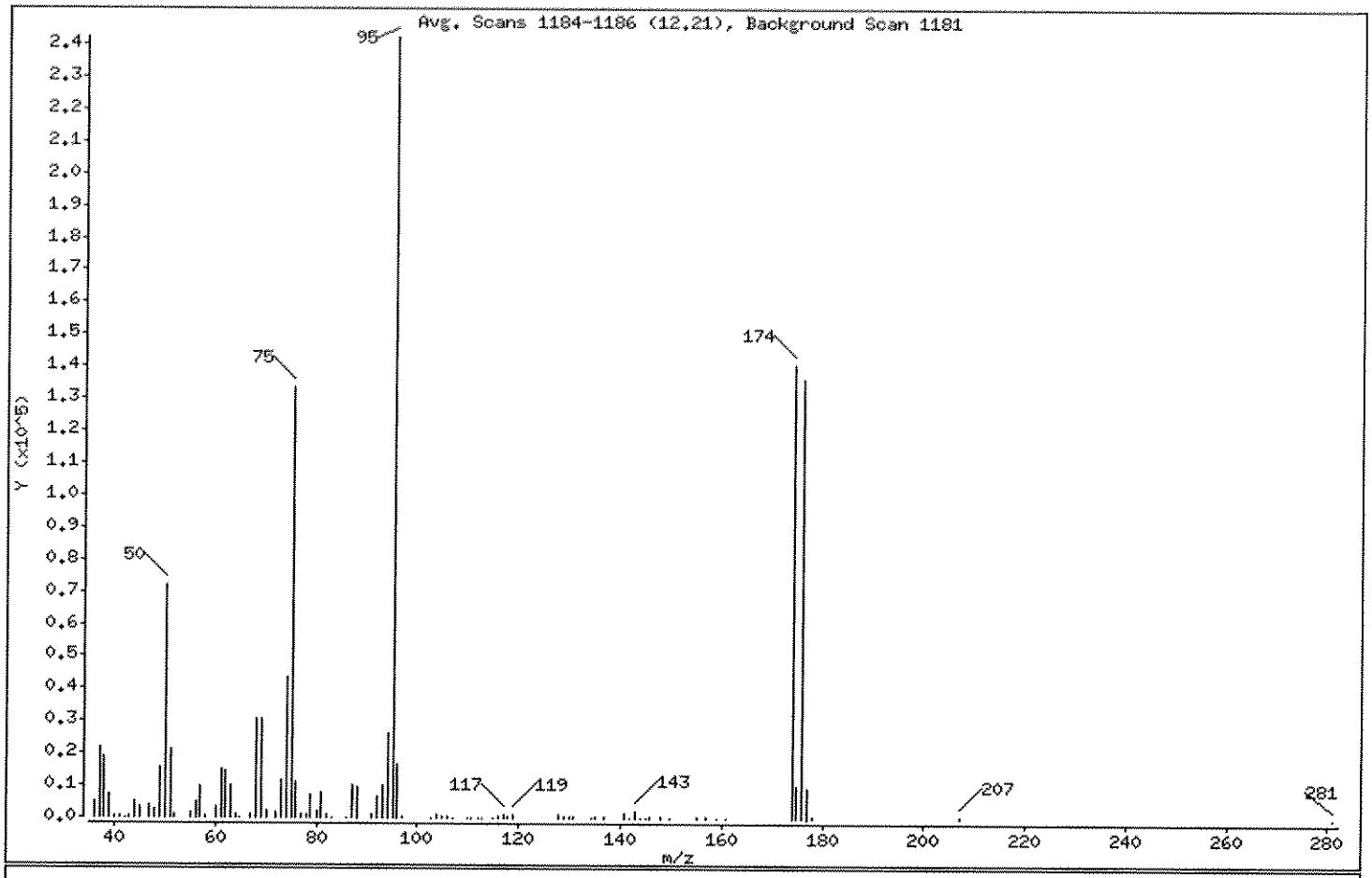
Volume Injected (uL): 1.0

Operator: ADM

Column phase: RTX-VRX

Column diameter: 0.25

1 bfb



m/e	ION ABUNDANCE CRITERIA	% RELATIVE ABUNDANCE
95	Base Peak, 100% relative abundance	100.00
50	15.00 - 40.00% of mass 95	29.64
75	30.00 - 60.00% of mass 95	55.14
96	5.00 - 9.00% of mass 95	6.88
173	Less than 2.00% of mass 174	0.00 (0.00)
174	Greater than 50.00% of mass 95	57.99
175	5.00 - 9.00% of mass 174	4.23 (7.30)
176	95.00 - 101.00% of mass 174	56.17 (96.86)
177	5.00 - 9.00% of mass 176	3.81 (6.79)

091571

MG 11/7/11

Data File: \\ELABNSH05\TARGET\chem\voa6.i\091311V6.b\0913TUN2.D

Date : 14-SEP-2011 05:53

Client ID: 25ppb BFB

Instrument: voa6.i

Sample Info: SEQ-TUN2

Volume Injected (uL): 1.0

Operator: ADM

Column phase: RTX-VRX

Column diameter: 0.25

Data File: 0913TUN2.D

Spectrum: Avg. Scans 1184-1186 (12.21), Background Scan 1181

Location of Maximum: 95.05

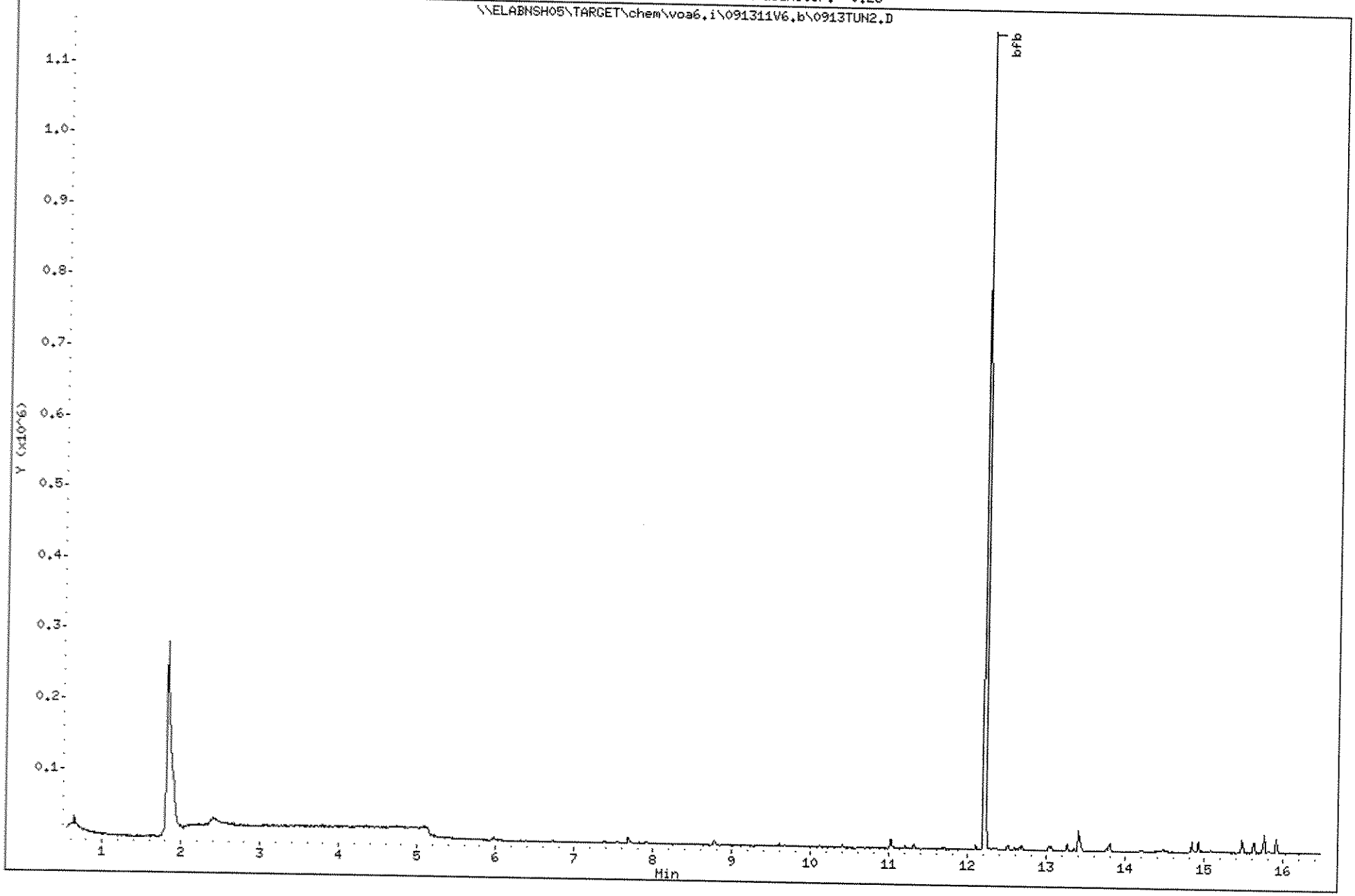
Number of points: 92

m/z	Y	m/z	Y	m/z	Y	m/z	Y
35.95	4880	63.95	991	93.95	26320	136.85	371
36.95	21712	64.85	235	95.05	242240	140.90	1853
37.95	18944	67.00	1124	96.00	16672	141.85	217
39.00	6992	68.00	30744	97.00	486	142.85	1977
40.00	422	69.00	30440	102.80	169	143.85	161
40.90	408	70.00	2228	103.90	1071	144.95	218
41.95	169	71.95	1808	105.00	363	145.90	304
42.95	490	72.95	11892	105.90	796	147.90	517
43.95	4761	74.00	43704	106.85	246	149.85	202
44.95	3611	75.00	133568	109.90	180	154.90	441
46.90	3984	76.00	10948	110.70	231	156.95	292
48.00	2818	77.00	1395	111.90	162	158.95	172
49.00	15769	78.05	865	112.80	194	160.90	185
49.95	71800	78.85	7015	114.85	279	173.90	140480
50.95	21072	79.95	2108	115.95	738	174.90	10255
51.95	927	80.95	7853	116.90	1246	175.90	136064
55.00	1403	81.90	1349	117.90	728	176.90	9241
56.00	5059	83.00	199	118.90	1141	177.85	325
56.95	9285	85.85	255	127.85	887	206.95	302
57.95	665	86.95	9899	128.95	406	281.00	270
59.90	3251	87.95	9448	129.85	830		
61.00	15111	90.90	1043	130.85	355		
62.00	14674	91.95	6588	134.10	195		
63.00	9874	92.95	9953	134.95	569		

Data File: \\ELABNSH05\TARGET\chem\voa6.i\091311V6.b\0913TUN2.D
Date : 14-SEP-2011 05:53
Client ID: 25ppb BFB
Sample Info: SEQ-TUN2
Volume Injected (uL): 1.0
Column phase: RTX-VRX

Instrument: voa6.i

Operator: ADM
Column diameter: 0.25



Data File: \\ELABNSH05\TARGET\chem\voa6.i\091311V6.b\0913CAL1.D
Report Date: 15-Sep-2011 09:37

Laboratory Name

Data file : \\ELABNSH05\TARGET\chem\voa6.i\091311V6.b\0913CAL1.D
Lab Smp Id: SEQ-CAL1
Inj Date : 13-SEP-2011 14:57
Operator : ADM
Smp Info : SEQ-CAL1;;;;;
Misc Info : ;;;;;8260.sub;
Comment :
Method : \\ELABNSH05\TARGET\chem\voa6.i\091311V6.b\VW6SUR.m
Meth Date : 15-Sep-2011 09:36 amonteiro
Cal Date : 13-SEP-2011 14:57
Als bottle: 1
Dil Factor: 1.00000
Integrator: HP RTE
Target Version: 4.04
Processing Host: TARGET02_VM

Client Smp ID: SEQ-CAL1
MS Autotune Date: 13-SEP-2011 09:32
Inst ID: voa6.i

Quant Type: ISTD
Cal File: 0913CAL1.D
Calibration Sample, Level: 1

Compound Sublist: 8260.sub

Concentration Formula: Amt * DF * 5*Uf/Vo

Name	Value	Description
DF	1.000	Dilution Factor
Uf	1.000	unit correction factor
Vo	5.000	Volume of sample purged (mL)

C091151r

μg 91714

Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	AMOUNTS CAL-AMT (ug/L)	AMOUNTS ON-COL (ug/L)
* 55 Fluorobenzene	96	7.900	7.900	(1.000)	862706	30.0000	
1 Dichlorodifluoromethane	85	2.024	2.024	(0.256)	3287	0.50000	0.4570(a)
2 Chloromethane	50	2.241	2.241	(0.284)	4392	0.50000	0.5128(a)
3 Vinyl chloride	62	2.379	2.379	(0.301)	3798	0.50000	0.5140(a)
4 Bromomethane	94	2.821	2.821	(0.357)	2252	0.50000	0.4977(a)
5 Chloroethane	64	2.959	2.959	(0.375)	2311	0.50000	0.4945(aQ)
6 Trichlorofluoromethane	101	3.451	3.451	(0.437)	5355	0.50000	0.4668(a)
10 Ethyl Ether	59	3.884	3.884	(0.492)	3265	0.50000	0.5318(a)
22 Acetonitrile	41	3.845	3.845	(0.487)	9596	5.00000	7.776
14 Trichlorotrifluoroethane	101	4.308	4.308	(0.545)	2915	0.50000	0.4785(a)
7 Acrolein	56	3.648	3.648	(0.462)	3966	2.50000	2.842(a)
36 Allyl chloride	41	4.662	4.662	(0.590)	7803	0.50000	0.5812(a)
13 1,1-Dichloroethene	96	4.229	4.229	(0.535)	3185	0.50000	0.5667(aQ)
9 Acetone	43	3.766	3.766	(0.477)	5825	1.00000	1.680(a)
15 t-Butyl alcohol	59	4.396	4.396	(0.556)	2468	2.50000	2.728(Q)
16 Iodomethane	142	4.436	4.436	(0.561)	2080	0.50000	1.849(Ta)

Data File: \\ELABNSH05\TARGET\chem\voa6.i\091311V6.b\0913CAL1.D
Report Date: 15-Sep-2011 09:37

	Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	AMOUNTS CAL-AMT (ug/L)	AMOUNTS ON-COL (ug/L)
	20 Carbon disulfide	76	4.760	4.760	(0.603)	10106	0.50000	0.5286(a)
	19 Methylene chloride	84	4.721	4.721	(0.598)	4745	0.50000	0.6767(aQ)
	18 Acrylonitrile	53	4.593	4.593	(0.581)	6830	2.50000	2.408(aQ)
	24 trans-1,2-Dichloroethene	96	5.380	5.380	(0.681)	3657	0.50000	0.5074(a)
	23 MTBE	73	5.380	5.380	(0.681)	11698	0.50000	0.4822(a)
	26 1,1-Dichloroethane	63	5.754	5.754	(0.728)	7770	0.50000	0.4780(a)
	56 Propionitrile	54	5.932	5.932	(0.751)	7752	5.00000	5.264
	27 Vinyl acetate	43	5.833	5.833	(0.738)	20000	1.00000	0.8123(a)
	69 Chloroprene	53	6.010	6.010	(0.761)	8223	0.50000	0.5021(a)
	32 Di-isopropyl ether	45	6.128	6.128	(0.776)	20084	0.50000	0.5072(a)
	35 cis-1,2-Dichloroethene	96	6.463	6.463	(0.818)	3968	0.50000	0.4876(aQ)
M	47 1,2-Dichloroethene(total)	96				7625	1.00000	0.9950(a)
	33 2-Butanone	43	6.207	6.207	(0.786)	6286	1.00000	1.007(a)
	73 Methacrylonitrile	41	6.365	6.365	(0.806)	39241	5.00000	4.891
	72 Hexane	57	5.951	5.951	(0.753)	5609	0.50000	0.5682(a)
	40 Bromochloromethane	128	6.739	6.739	(0.853)	1837	0.50000	0.4545(a)
	84 Isobutyl alcohol	43	6.817	6.817	(0.863)	5497	10.0000	11.08
	42 Tetrahydrofuran	42	6.926	6.926	(0.877)	2427	0.50000	0.7188(a)
	43 tert-Amyl alcohol	59	7.093	7.093	(0.898)	2008	2.50000	2.543(Q)
	39 Chloroform	83	6.709	6.709	(0.849)	8009	0.50000	0.5337(a)
	17 Methyl acetate	43	4.583	4.583	(0.580)	3962	0.50000	0.5263(a)
$	41 Dibromofluoromethane	111	6.886	6.886	(0.872)	271665	30.0000	30.32
	44 1,1,1-Trichloroethane	97	7.270	7.270	(0.920)	5534	0.50000	0.4619(a)
	38 ETBE	59	6.591	6.591	(0.834)	16105	0.50000	0.4878(a)
	49 Cyclohexane	56	7.536	7.536	(0.954)	7450	0.50000	0.5115(a)
	51 Carbon tetrachloride	117	7.605	7.605	(0.963)	4261	0.50000	0.4299(a)
$	45 1,2-Dichloroethane-d4	102	7.378	7.378	(0.934)	56889	30.0000	30.45
	52 Benzene	78	7.634	7.634	(0.966)	14558	0.50000	0.4810(a)
	54 tert-Amyl Methyl Ether	73	7.831	7.831	(0.991)	13173	0.50000	0.4950(a)
	46 1,2-Dichloroethane	62	7.467	7.467	(0.945)	7321	0.50000	0.4830(a)
	37 2,2-Dichloropropane	77	6.561	6.561	(0.831)	6689	0.50000	0.5455(a)
	48 1,1-Dichloropropene	75	7.487	7.487	(0.948)	5622	0.50000	0.4911(a)
	58 Trichloroethene	95	8.392	8.392	(1.062)	3835	0.50000	0.4871(a)
	62 1,4-Dioxane	88	8.618	8.618	(1.091)	709	10.0000	8.646(Q)
	59 1,2-Dichloropropane	63	8.451	8.451	(1.070)	4500	0.50000	0.4938(a)
	61 Dibromomethane	93	8.559	8.559	(1.083)	2704	0.50000	0.4770(a)
	50 Methyl methacrylate	41	8.579	8.579	(1.086)	6014	0.50000	0.5130(a)
	63 Bromodichloromethane	83	8.618	8.618	(1.091)	5632	0.50000	0.4736(a)
	64 tert-Amyl Ethyl Ether	59	8.717	8.717	(1.103)	12198	0.50000	0.4655(a)
	68 2-Chloroethyl vinyl ether	63	8.983	8.983	(1.137)	5142	1.00000	0.8883(a)
	71 cis-1,3-Dichloropropene	75	9.189	9.189	(1.163)	6666	0.50000	0.4910(a)
	70 4-Methyl-2-pentanone	43	9.120	9.120	(1.154)	11829	1.00000	0.9767(a)
$	75 Toluene-d8	98	9.593	9.593	(0.871)	799832	30.0000	30.45
	77 Toluene	92	9.662	9.662	(0.877)	8550	0.50000	0.4899(a)
	76 trans-1,3-Dichloropropene	75	9.662	9.662	(0.877)	6803	0.50000	0.4782(a)
	79 Ethyl methacrylate	69	9.849	9.849	(0.894)	6117	0.50000	0.4920(a)
	78 1,1,2-Trichloroethane	83	9.819	9.819	(0.891)	2980	0.50000	0.4892(a)

Data File: \\ELABNSH05\TARGET\chem\voa6.i\091311V6.b\0913CAL1.D
Report Date: 15-Sep-2011 09:37

Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	AMOUNTS CAL-AMT (ug/L)	AMOUNTS ON-COL (ug/L)
83 Tetrachloroethene	166	10.400	10.400	(0.944)	3093	0.50000	0.4809(a)
80 2-Hexanone	43	9.967	9.967	(0.904)	9245	1.00000	1.060(a)
82 Dibromochloromethane	129	10.292	10.292	(0.934)	3408	0.50000	0.4223(a)
85 1,2-Dibromoethane	107	10.498	10.498	(0.953)	3805	0.50000	0.4863(a)
65 Methyl cyclohexane	83	8.766	8.766	(1.110)	5036	0.50000	0.5180(a)
* 86 Chlorobenzene-d5	82	11.020	11.020	(1.000)	399507	30.0000	
88 Chlorobenzene	112	11.049	11.049	(1.003)	9624	0.50000	0.4863(a)
89 1,1,1,2-Tetrachloroethane	131	11.099	11.099	(1.007)	3196	0.50000	0.4566(a)
87 1-Chlorohexane	91	11.020	11.020	(1.000)	6682	0.50000	0.6347(aQ)
90 Ethylbenzene	91	11.197	11.197	(1.016)	16363	0.50000	0.4781(a)
91 m,p-Xylene	91	11.305	11.305	(1.026)	25813	1.00000	0.9769(a)
M 127 Xylene(total)	91				39656	1.50000	1.473
93 o-Xylene	91	11.699	11.699	(1.062)	13843	0.50000	0.4963(a)
92 Styrene	104	11.669	11.669	(1.059)	10042	0.50000	0.4599(a)
95 Bromoform	173	11.778	11.778	(1.069)	1833	0.50000	0.4094(a)
125 cis-1,4-Dichloro-2-butene	75	11.856	11.856	(0.884)	1418	0.50000	0.4327(aQ)
97 Isopropylbenzene	105	12.093	12.093	(1.097)	13071	0.50000	0.4588(a)
$ 99 Bromofluorobenzene	95	12.201	12.201	(1.107)	357602	30.0000	30.57
96 1,1,2,2-Tetrachloroethane	83	12.024	12.024	(0.897)	4592	0.50000	0.4789(a)
81 1,3-Dichloropropane	76	10.026	10.026	(0.910)	5992	0.50000	0.4699(a)
98 1,2,3-Trichloropropane	110	12.152	12.152	(1.103)	1243	0.50000	0.4559(aQ)
124 trans-1,4-Dichloro-2-butene	53	12.162	12.162	(0.907)	2418	0.50000	0.5401(aQ)
101 n-Propylbenzene	91	12.506	12.506	(0.932)	18455	0.50000	0.4981(a)
105 1,3,5-Trimethylbenzene	105	12.683	12.683	(0.946)	12077	0.50000	0.4815(a)
108 1,2,4-Trimethylbenzene	105	13.047	13.047	(0.973)	12843	0.50000	0.4951(a)
109 sec-Butylbenzene	105	13.254	13.254	(0.988)	13630	0.50000	0.4732(a)
107 tert-Butylbenzene	119	13.018	13.018	(0.971)	10928	0.50000	0.4863(a)
110 1,3-Dichlorobenzene	146	13.343	13.343	(0.995)	6461	0.50000	0.4770(a)
* 112 1,4-Dichlorobenzene-d4	152	13.411	13.411	(1.000)	332195	30.0000	(Q)
113 1,4-Dichlorobenzene	146	13.431	13.431	(1.001)	6681	0.50000	0.4857(a)
115 n-Butylbenzene	91	13.795	13.795	(1.029)	10204	0.50000	0.4687(a)
114 1,2-Dichlorobenzene	146	13.756	13.756	(1.026)	5775	0.50000	0.4473(a)
118 1,2-Dibromo-3-chloropropane	157	14.406	14.406	(1.074)	737	0.50000	0.4643(a)
119 1,3,5-Trichlorobenzene	180	14.917	14.917	(1.112)	4005	0.50000	0.5040(a)
100 Bromobenzene	156	12.368	12.368	(0.922)	3610	0.50000	0.4776(a)
102 2-Chlorotoluene	91	12.585	12.585	(0.938)	11650	0.50000	0.4954(a)
103 4-Chlorotoluene	91	12.644	12.644	(0.943)	13233	0.50000	0.4878(a)
120 1,2,4-Trichlorobenzene	180	15.468	15.468	(1.153)	3893	0.50000	0.5306(a)
121 Naphthalene	128	15.626	15.626	(1.165)	9095	0.50000	0.5175(a)
111 p-Isopropyltoluene	119	13.392	13.392	(0.999)	11679	0.50000	0.4838(a)
122 Hexachlorobutadiene	225	15.754	15.754	(1.175)	1728	0.50000	0.5194(a)
123 1,2,3-Trichlorobenzene	180	15.911	15.911	(1.186)	3201	0.50000	0.5148(a)

QC Flag Legend

T - Target compound detected outside RT window.
a - Target compound detected but, quantitated amount Below Limit Of Quantitation(BLOQ).

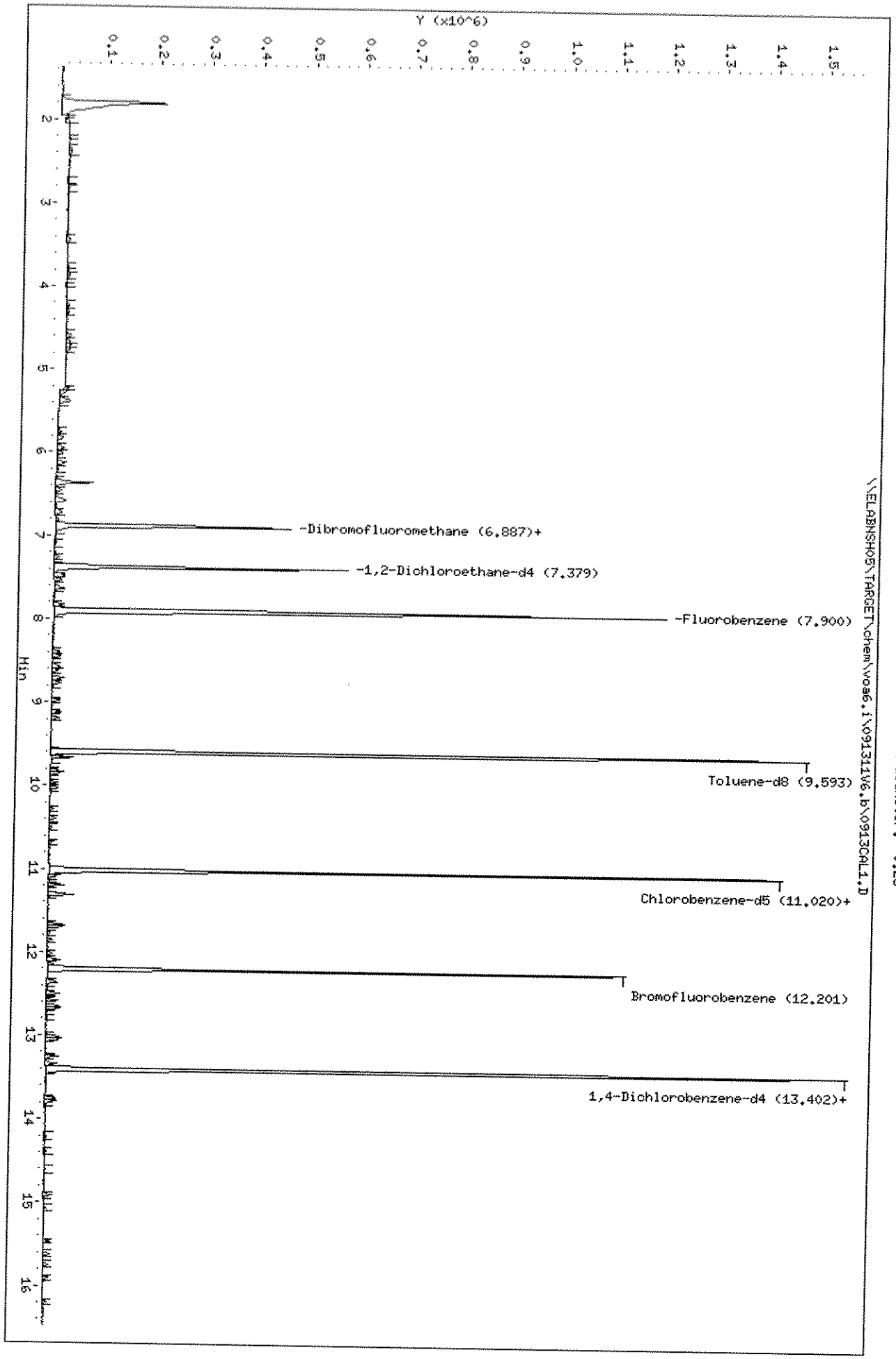
Data File: \\ELABNSH05\TARGET\chem\voa6.i\091311V6.b\0913CAL1.D
Report Date: 15-Sep-2011 09:37

QC Flag Legend

Q - Qualifier signal failed the ratio test.

Data File: \\ELABNSHO5\TARGET\chem\voa6.i\091311V6.b\0913CAL1.D
Date : 13-SEP-2011 14:57
Client ID: SEQ-CAL1
Sample Info: SEQ-CAL1;;;;;
Purge Volume: 5.0
Column phase: RTX-VRX

Instrument: voa6.i
Operator: ADM
Column diameter: 0.25



Data File: \\ELABNSH05\TARGET\chem\voa6.i\091311V6.b\0913CAL2.D
Report Date: 15-Sep-2011 09:37

Laboratory Name

Data file : \\ELABNSH05\TARGET\chem\voa6.i\091311V6.b\0913CAL2.D
Lab Smp Id: SEQ-CAL2
Client Smp ID: SEQ-CAL2
Inj Date : 13-SEP-2011 15:23
MS Autotune Date: 13-SEP-2011 09:32
Operator : ADM
Inst ID: voa6.i
Smp Info : SEQ-CAL2;;;;;
Misc Info : ;;;;;8260.sub;
Comment :
Method : \\ELABNSH05\TARGET\chem\voa6.i\091311V6.b\VW6SUR.m
Meth Date : 15-Sep-2011 09:37 amonteiro
Quant Type: ISTD
Cal Date : 13-SEP-2011 14:57
Cal File: 0913CAL1.D
Als bottle: 2
Calibration Sample, Level: 2
Dil Factor: 1.00000
Integrator: HP RTE
Compound Sublist: 8260.sub
Target Version: 4.04
Processing Host: TARGET02_VM

Concentration Formula: Amt * DF * 5*Uf/Vo

Name	Value	Description
DF	1.000	Dilution Factor
Uf	1.000	unit correction factor
Vo	5.000	Volume of sample purged (mL)

ma 1/7/11

Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	AMOUNTS CAL-AMT (ug/L)	ON-COL (ug/L)
* 55 Fluorobenzene	96	7.906	7.906	(1.000)	878416	30.0000	
1 Dichlorodifluoromethane	85	2.030	2.030	(0.257)	6507	1.00000	0.8886(a)
2 Chloromethane	50	2.247	2.247	(0.284)	8116	1.00000	0.9307(a)
3 Vinyl chloride	62	2.384	2.384	(0.302)	7154	1.00000	0.9508(a)
4 Bromomethane	94	2.827	2.827	(0.358)	3934	1.00000	0.8540(a)
5 Chloroethane	64	2.955	2.955	(0.374)	4661	1.00000	0.9794(a)
6 Trichlorofluoromethane	101	3.457	3.457	(0.437)	11070	1.00000	0.9476(a)
10 Ethyl Ether	59	3.890	3.890	(0.492)	6178	1.00000	0.9882(a)
22 Acetonitrile	41	3.841	3.841	(0.486)	11953	10.0000	9.512
14 Trichlorotrifluoroethane	101	4.313	4.313	(0.546)	6124	1.00000	0.9872(a)
7 Acrolein	56	3.654	3.654	(0.462)	6615	5.00000	4.656(a)
36 Allyl chloride	41	4.668	4.668	(0.590)	14022	1.00000	1.026
13 1,1-Dichloroethene	96	4.235	4.235	(0.536)	5569	1.00000	0.9732(aQ)
9 Acetone	43	3.772	3.772	(0.477)	8533	2.00000	2.417(a)
15 t-Butyl alcohol	59	4.402	4.402	(0.557)	4743	5.00000	5.149
16 Iodomethane	142	4.431	4.431	(0.561)	5282	1.00000	2.188(a)

Data File: \\ELABNSH05\TARGET\chem\voa6.i\091311V6.b\0913CAL2.D
Report Date: 15-Sep-2011 09:37

	Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	AMOUNTS CAL-AMT (ug/L)	AMOUNTS ON-COL (ug/L)
	20 Carbon disulfide	76	4.766	4.766	(0.603)	18375	1.00000	0.9440(a)
	19 Methylene chloride	84	4.727	4.727	(0.598)	7752	1.00000	1.086(a)
	18 Acrylonitrile	53	4.609	4.609	(0.583)	13527	5.00000	4.684(aQ)
	24 trans-1,2-Dichloroethene	96	5.386	5.386	(0.681)	7524	1.00000	1.025
	23 MTBE	73	5.386	5.386	(0.681)	23827	1.00000	0.9646(a)
	26 1,1-Dichloroethane	63	5.760	5.760	(0.729)	16011	1.00000	0.9674(a)
	56 Propionitrile	54	5.927	5.927	(0.750)	15019	10.0000	10.02
	27 Vinyl acetate	43	5.829	5.829	(0.737)	44218	2.00000	1.764(a)
	69 Chloroprene	53	6.016	6.016	(0.761)	15260	1.00000	0.9152(a)
	32 Di-isopropyl ether	45	6.134	6.134	(0.776)	37843	1.00000	0.9386(a)
	35 cis-1,2-Dichloroethene	96	6.459	6.459	(0.817)	8226	1.00000	0.9928(aQ)
M	47 1,2-Dichloroethene(total)	96				15750	2.00000	2.018
	33 2-Butanone	43	6.213	6.213	(0.786)	12403	2.00000	1.951(a)
	73 Methacrylonitrile	41	6.370	6.370	(0.806)	82488	10.0000	10.10
	72 Hexane	57	5.957	5.957	(0.754)	9459	1.00000	0.9411(a)
	40 Bromochloromethane	128	6.735	6.735	(0.852)	4175	1.00000	1.014(a)
	84 Isobutyl alcohol	43	6.823	6.823	(0.863)	9768	20.0000	19.34
	42 Tetrahydrofuran	42	6.931	6.931	(0.877)	4121	1.00000	1.199(a)
	43 tert-Amyl alcohol	59	7.099	7.099	(0.898)	3943	5.00000	4.905
	39 Chloroform	83	6.715	6.715	(0.849)	15361	1.00000	1.005
	17 Methyl acetate	43	4.589	4.589	(0.580)	8807	1.00000	1.149
$	41 Dibromofluoromethane	111	6.882	6.882	(0.871)	318260	35.0000	34.89
	44 1,1,1-Trichloroethane	97	7.266	7.266	(0.919)	11724	1.00000	0.9611(a)
	38 ETBE	59	6.597	6.597	(0.834)	31827	1.00000	0.9468(a)
	49 Cyclohexane	56	7.542	7.542	(0.954)	14430	1.00000	0.9731(a)
	51 Carbon tetrachloride	117	7.610	7.610	(0.963)	9123	1.00000	0.9040(a)
$	45 1,2-Dichloroethane-d4	102	7.384	7.384	(0.934)	66832	35.0000	35.14
	52 Benzene	78	7.640	7.640	(0.966)	29847	1.00000	0.9686(a)
	54 tert-Amyl Methyl Ether	73	7.837	7.837	(0.991)	25775	1.00000	0.9513(a)
	46 1,2-Dichloroethane	62	7.473	7.473	(0.945)	15030	1.00000	0.9739(a)
	37 2,2-Dichloropropane	77	6.567	6.567	(0.831)	12362	1.00000	0.9901(a)
	48 1,1-Dichloropropene	75	7.492	7.492	(0.948)	11238	1.00000	0.9641(aQ)
	58 Trichloroethene	95	8.398	8.398	(1.062)	7742	1.00000	0.9657(a)
	62 1,4-Dioxane	88	8.614	8.614	(1.090)	1586	20.0000	18.99(Q)
	59 1,2-Dichloropropane	63	8.447	8.447	(1.068)	8552	1.00000	0.9217(a)
	61 Dibromomethane	93	8.555	8.555	(1.082)	5733	1.00000	0.9933(a)
	50 Methyl methacrylate	41	8.585	8.585	(1.086)	11373	1.00000	0.9528(a)
	63 Bromodichloromethane	83	8.624	8.624	(1.091)	11516	1.00000	0.9510(a)
	64 tert-Amyl Ethyl Ether	59	8.713	8.713	(1.102)	25640	1.00000	0.9610(a)
	68 2-Chloroethyl vinyl ether	63	8.978	8.978	(1.136)	11017	2.00000	1.869(a)
	71 cis-1,3-Dichloropropene	75	9.195	9.195	(1.163)	12670	1.00000	0.9166(a)
	70 4-Methyl-2-pentanone	43	9.116	9.116	(1.153)	23976	2.00000	1.944(a)
$	75 Toluene-d8	98	9.589	9.589	(0.870)	936031	35.0000	34.72
	77 Toluene	92	9.667	9.667	(0.878)	17752	1.00000	0.9912(a)
	76 trans-1,3-Dichloropropene	75	9.667	9.667	(0.878)	13601	1.00000	0.9315(a)
	79 Ethyl methacrylate	69	9.854	9.854	(0.895)	12480	1.00000	0.9781(a)
	78 1,1,2-Trichloroethane	83	9.815	9.815	(0.891)	6195	1.00000	0.9909(a)

Data File: \\ELABNSH05\TARGET\chem\voa6.i\091311V6.b\0913CAL2.D
Report Date: 15-Sep-2011 09:37

Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	AMOUNTS CAL-AMT (ug/L)	AMOUNTS ON-COL (ug/L)
83 Tetrachloroethene	166	10.396	10.396	(0.944)	6233	1.00000	0.9443(a)
80 2-Hexanone	43	9.963	9.963	(0.904)	16957	2.00000	1.894(a)
82 Dibromochloromethane	129	10.287	10.287	(0.934)	7387	1.00000	0.8919(a)
85 1,2-Dibromoethane	107	10.504	10.504	(0.954)	7507	1.00000	0.9349(a)
65 Methyl cyclohexane	83	8.772	8.772	(1.110)	9335	1.00000	0.9430(a)
* 86 Chlorobenzene-d5	82	11.016	11.016	(1.000)	410011	30.0000	
88 Chlorobenzene	112	11.055	11.055	(1.004)	19490	1.00000	0.9596(a)
89 1,1,1,2-Tetrachloroethane	131	11.095	11.095	(1.007)	6836	1.00000	0.9515(a)
87 1-Chlorohexane	91	11.016	11.016	(1.000)	12211	1.00000	1.130(Q)
90 Ethylbenzene	91	11.193	11.193	(1.016)	32534	1.00000	0.9262(a)
91 m,p-Xylene	91	11.311	11.311	(1.027)	52174	2.00000	1.924
M 127 Xylene(total)	91				79928	3.00000	2.893
93 o-Xylene	91	11.695	11.695	(1.062)	27754	1.00000	0.9695(a)
92 Styrene	104	11.665	11.665	(1.059)	21041	1.00000	0.9389(a)
95 Bromoform	173	11.774	11.774	(1.069)	4121	1.00000	0.8968(a)
125 cis-1,4-Dichloro-2-butene	75	11.852	11.852	(0.884)	3003	1.00000	0.9155(a)
97 Isopropylbenzene	105	12.098	12.098	(1.098)	28157	1.00000	0.9630(a)
$ 99 Bromofluorobenzene	95	12.207	12.207	(1.108)	416897	35.0000	34.72
96 1,1,2,2-Tetrachloroethane	83	12.020	12.020	(0.896)	9517	1.00000	0.9917(a)
81 1,3-Dichloropropane	76	10.032	10.032	(0.911)	12516	1.00000	0.9563(a)
98 1,2,3-Trichloropropane	110	12.148	12.148	(1.103)	2849	1.00000	1.018
124 trans-1,4-Dichloro-2-butene	53	12.167	12.167	(0.908)	4341	1.00000	0.9688(a)
101 n-Propylbenzene	91	12.502	12.502	(0.932)	35935	1.00000	0.9691(a)
105 1,3,5-Trimethylbenzene	105	12.679	12.679	(0.946)	23488	1.00000	0.9356(a)
108 1,2,4-Trimethylbenzene	105	13.053	13.053	(0.974)	25343	1.00000	0.9762(a)
109 sec-Butylbenzene	105	13.250	13.250	(0.988)	27850	1.00000	0.9661(a)
107 tert-Butylbenzene	119	13.024	13.024	(0.971)	20930	1.00000	0.9307(a)
110 1,3-Dichlorobenzene	146	13.348	13.348	(0.996)	13344	1.00000	0.9844(a)
* 112 1,4-Dichlorobenzene-d4	152	13.407	13.407	(1.000)	332472	30.0000	(Q)
113 1,4-Dichlorobenzene	146	13.437	13.437	(1.002)	13508	1.00000	0.9811(a)
115 n-Butylbenzene	91	13.791	13.791	(1.029)	22947	1.00000	1.053
114 1,2-Dichlorobenzene	146	13.752	13.752	(1.026)	12761	1.00000	0.9876(a)
118 1,2-Dibromo-3-chloropropane	157	14.401	14.401	(1.074)	1498	1.00000	0.9429(a)
119 1,3,5-Trichlorobenzene	180	14.913	14.913	(1.112)	7806	1.00000	0.9815(a)
100 Bromobenzene	156	12.364	12.364	(0.922)	7429	1.00000	0.9820(a)
102 2-Chlorotoluene	91	12.591	12.591	(0.939)	23135	1.00000	0.9829(a)
103 4-Chlorotoluene	91	12.650	12.650	(0.943)	26716	1.00000	0.9841(a)
120 1,2,4-Trichlorobenzene	180	15.474	15.474	(1.154)	7369	1.00000	1.004
121 Naphthalene	128	15.622	15.622	(1.165)	17020	1.00000	0.9677(a)
111 p-Isopropyltoluene	119	13.388	13.388	(0.999)	23429	1.00000	0.9698(a)
122 Hexachlorobutadiene	225	15.750	15.750	(1.175)	3152	1.00000	0.9466(a)
123 1,2,3-Trichlorobenzene	180	15.907	15.907	(1.186)	6189	1.00000	0.9946(a)

QC Flag Legend

a - Target compound detected but, quantitated amount Below Limit Of Quantitation(BLOQ).

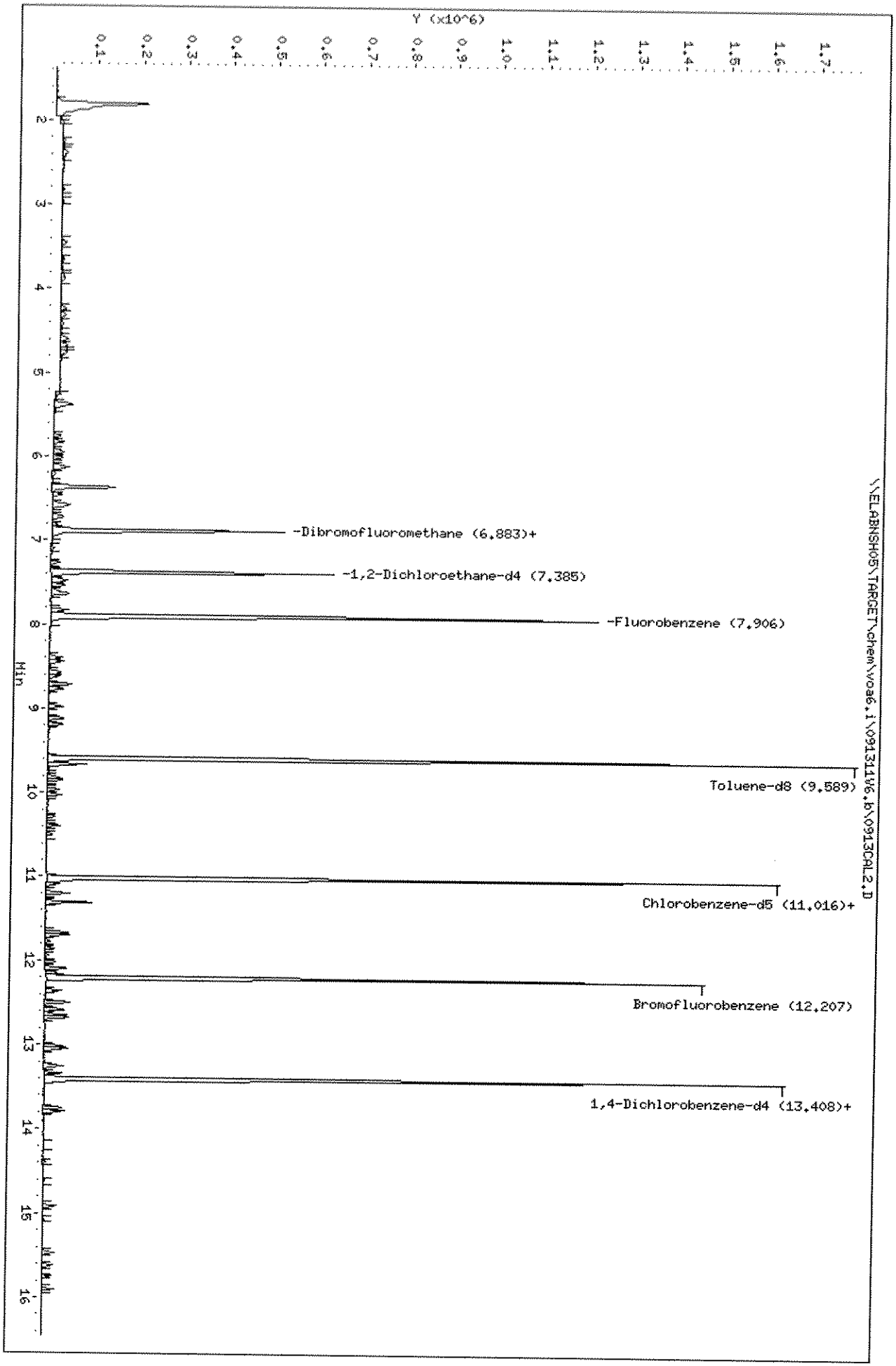
Data File: \\ELABNSH05\TARGET\chem\voa6.i\091311V6.b\0913CAL2.D
Report Date: 15-Sep-2011 09:37

QC Flag Legend

Q - Qualifier signal failed the ratio test.

Data File: \\ELABNSH05\TARGET\chem\voa6.i\091311V6.b\0913CAL2.D
Date : 13-SEP-2011 15:23
Client ID: SEQ-CAL2
Sample Info: SEQ-CAL2;;;;;
Purge Volume: 5.0
Column phase: RTX-VRX

Instrument: voa6.i
Operator: ADM
Column diameter: 0.25



Data File: \\ELABNSH05\TARGET\chem\voa6.i\091311V6.b\0913CAL3.D
Report Date: 15-Sep-2011 09:37

Laboratory Name

Data file : \\ELABNSH05\TARGET\chem\voa6.i\091311V6.b\0913CAL3.D
Lab Smp Id: SEQ-CAL3 Client Smp ID: SEQ-CAL3
Inj Date : 13-SEP-2011 15:50 MS Autotune Date: 13-SEP-2011 09:32
Operator : ADM Inst ID: voa6.i
Smp Info : SEQ-CAL3;;;;;
Misc Info : ;;;;;8260.sub;
Comment :
Method : \\ELABNSH05\TARGET\chem\voa6.i\091311V6.b\VW6SUR.m
Meth Date : 15-Sep-2011 09:37 amonteiro Quant Type: ISTD
Cal Date : 13-SEP-2011 14:57 Cal File: 0913CAL1.D
Als bottle: 3 Calibration Sample, Level: 3
Dil Factor: 1.00000
Integrator: HP RTE Compound Sublist: 8260.sub
Target Version: 4.04
Processing Host: TARGET02_VM

Concentration Formula: Amt * DF * 5*Uf/Vo

Name	Value	Description
DF	1.000	Dilution Factor
Uf	1.000	unit correction factor
Vo	5.000	Volume of sample purged (mL)

MA 11/14

Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	AMOUNTS CAL-AMT (ug/L)	ON-COL (ug/L)
* 55 Fluorobenzene	96	7.900	7.900	(1.000)	870290	30.0000	
1 Dichlorodifluoromethane	85	2.024	2.024	(0.256)	13062	2.00000	1.800(a)
2 Chloromethane	50	2.250	2.250	(0.285)	16517	2.00000	1.912(a)
3 Vinyl chloride	62	2.388	2.388	(0.302)	14415	2.00000	1.934(a)
4 Bromomethane	94	2.831	2.831	(0.358)	7902	2.00000	1.731(a)
5 Chloroethane	64	2.959	2.959	(0.375)	9051	2.00000	1.920(a)
6 Trichlorofluoromethane	101	3.451	3.451	(0.437)	22006	2.00000	1.901(a)
10 Ethyl Ether	59	3.894	3.894	(0.493)	12258	2.00000	1.979
22 Acetonitrile	41	3.845	3.845	(0.487)	22722	20.0000	18.25
14 Trichlorotrifluoroethane	101	4.317	4.317	(0.547)	11459	2.00000	1.864
7 Acrolein	56	3.658	3.658	(0.463)	13497	10.0000	9.588
36 Allyl chloride	41	4.671	4.671	(0.591)	25367	2.00000	1.873
13 1,1-Dichloroethene	96	4.238	4.238	(0.537)	11237	2.00000	1.982(Q)
9 Acetone	43	3.776	3.776	(0.478)	15066	4.00000	4.308(a)
15 t-Butyl alcohol	59	4.406	4.406	(0.558)	9540	10.0000	10.45(Q)
16 Iodomethane	142	4.435	4.435	(0.561)	11170	2.00000	2.830(a)

Data File: \\ELABNSH05\TARGET\chem\voa6.i\091311V6.b\0913CAL3.D
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	Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	AMOUNTS CAL-AMT (ug/L)	AMOUNTS ON-COL (ug/L)
	20 Carbon disulfide	76	4.770	4.770	(0.604)	35091	2.00000	1.820
	19 Methylene chloride	84	4.721	4.721	(0.598)	14138	2.00000	1.999(a)
	18 Acrylonitrile	53	4.602	4.602	(0.583)	27849	10.0000	9.733(Q)
	24 trans-1,2-Dichloroethene	96	5.380	5.380	(0.681)	14545	2.00000	2.000
	23 MTBE	73	5.390	5.390	(0.682)	49016	2.00000	2.003
	26 1,1-Dichloroethane	63	5.754	5.754	(0.728)	31970	2.00000	1.950
	56 Propionitrile	54	5.931	5.931	(0.751)	29625	20.0000	19.94
	27 Vinyl acetate	43	5.833	5.833	(0.738)	94457	4.00000	3.803(a)
	69 Chloroprene	53	6.020	6.020	(0.762)	32387	2.00000	1.960
	32 Di-isopropyl ether	45	6.128	6.128	(0.776)	78201	2.00000	1.958
	35 cis-1,2-Dichloroethene	96	6.463	6.463	(0.818)	15995	2.00000	1.948(Q)
M	47 1,2-Dichloroethene(total)	96				30540	4.00000	3.949
	33 2-Butanone	43	6.207	6.207	(0.786)	24821	4.00000	3.941(a)
	73 Methacrylonitrile	41	6.374	6.374	(0.807)	165590	20.0000	20.46
	72 Hexane	57	5.961	5.961	(0.755)	18315	2.00000	1.839
	40 Bromochloromethane	128	6.738	6.738	(0.853)	7981	2.00000	1.957(a)
	84 Isobutyl alcohol	43	6.817	6.817	(0.863)	19932	40.0000	39.83
	42 Tetrahydrofuran	42	6.935	6.935	(0.878)	7619	2.00000	2.237
	43 tert-Amyl alcohol	59	7.102	7.102	(0.899)	7849	10.0000	9.855
	39 Chloroform	83	6.719	6.719	(0.851)	30143	2.00000	1.991
	17 Methyl acetate	43	4.593	4.593	(0.581)	15876	2.00000	2.091
$	41 Dibromofluoromethane	111	6.886	6.886	(0.872)	361348	40.0000	39.98
	44 1,1,1-Trichloroethane	97	7.270	7.270	(0.920)	23310	2.00000	1.929
	38 ETBE	59	6.591	6.591	(0.834)	66431	2.00000	1.994
	49 Cyclohexane	56	7.535	7.535	(0.954)	28932	2.00000	1.969(a)
	51 Carbon tetrachloride	117	7.604	7.604	(0.963)	18651	2.00000	1.865
$	45 1,2-Dichloroethane-d4	102	7.378	7.378	(0.934)	76858	40.0000	40.78
	52 Benzene	78	7.644	7.644	(0.968)	58730	2.00000	1.924
	54 tert-Amyl Methyl Ether	73	7.831	7.831	(0.991)	51677	2.00000	1.925
	46 1,2-Dichloroethane	62	7.476	7.476	(0.946)	31048	2.00000	2.031
	37 2,2-Dichloropropane	77	6.571	6.571	(0.832)	25119	2.00000	2.030
	48 1,1-Dichloropropene	75	7.486	7.486	(0.948)	23070	2.00000	1.998
	58 Trichloroethene	95	8.401	8.401	(1.064)	15159	2.00000	1.908
	62 1,4-Dioxane	88	8.608	8.608	(1.090)	3000	40.0000	36.26(Q)
	59 1,2-Dichloropropane	63	8.451	8.451	(1.070)	18274	2.00000	1.988
	61 Dibromomethane	93	8.559	8.559	(1.083)	11278	2.00000	1.972
	50 Methyl methacrylate	41	8.579	8.579	(1.086)	24099	2.00000	2.038
	63 Bromodichloromethane	83	8.618	8.618	(1.091)	24051	2.00000	2.005
	64 tert-Amyl Ethyl Ether	59	8.716	8.716	(1.103)	51981	2.00000	1.966
	68 2-Chloroethyl vinyl ether	63	8.982	8.982	(1.137)	21872	4.00000	3.745(a)
	71 cis-1,3-Dichloropropene	75	9.189	9.189	(1.163)	27069	2.00000	1.976
	70 4-Methyl-2-pentanone	43	9.120	9.120	(1.154)	48706	4.00000	3.986(a)
$	75 Toluene-d8	98	9.592	9.592	(0.870)	1057703	40.0000	39.77
	77 Toluene	92	9.661	9.661	(0.877)	34340	2.00000	1.944
	76 trans-1,3-Dichloropropene	75	9.661	9.661	(0.877)	28411	2.00000	1.972
	79 Ethyl methacrylate	69	9.848	9.848	(0.894)	24180	2.00000	1.921
	78 1,1,2-Trichloroethane	83	9.819	9.819	(0.891)	12332	2.00000	2.000

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Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	AMOUNTS CAL-AMT (ug/L)	AMOUNTS ON-COL (ug/L)
83 Tetrachloroethene	166	10.399	10.399	(0.944)	12543	2.00000	1.926
80 2-Hexanone	43	9.966	9.966	(0.904)	34613	4.00000	3.919(a)
82 Dibromochloromethane	129	10.291	10.291	(0.934)	15286	2.00000	1.871
85 1,2-Dibromoethane	107	10.498	10.498	(0.953)	15426	2.00000	1.947
65 Methyl cyclohexane	83	8.775	8.775	(1.111)	18511	2.00000	1.887
* 86 Chlorobenzene-d5	82	11.019	11.019	(1.000)	404462	30.0000	
88 Chlorobenzene	112	11.049	11.049	(1.003)	38537	2.00000	1.923
89 1,1,1,2-Tetrachloroethane	131	11.098	11.098	(1.007)	13855	2.00000	1.955
87 1-Chlorohexane	91	11.019	11.019	(1.000)	21006	2.00000	1.971(Q)
90 Ethylbenzene	91	11.197	11.197	(1.016)	66760	2.00000	1.927
91 m,p-Xylene	91	11.305	11.305	(1.026)	103303	4.00000	3.862
M 127 Xylene(total)	91				158601	6.00000	5.820
93 o-Xylene	91	11.699	11.699	(1.062)	55298	2.00000	1.958
92 Styrene	104	11.669	11.669	(1.059)	42499	2.00000	1.922
95 Bromoform	173	11.777	11.777	(1.069)	8580	2.00000	1.893
125 cis-1,4-Dichloro-2-butene	75	11.856	11.856	(0.884)	6373	2.00000	1.963(a)
97 Isopropylbenzene	105	12.092	12.092	(1.097)	54719	2.00000	1.897
$ 99 Bromofluorobenzene	95	12.201	12.201	(1.107)	474796	40.0000	40.09
96 1,1,2,2-Tetrachloroethane	83	12.023	12.023	(0.897)	19567	2.00000	2.060
81 1,3-Dichloropropane	76	10.025	10.025	(0.910)	25898	2.00000	2.006
98 1,2,3-Trichloropropane	110	12.151	12.151	(1.103)	5264	2.00000	1.907
124 trans-1,4-Dichloro-2-butene	53	12.161	12.161	(0.907)	8927	2.00000	2.013(a)
101 n-Propylbenzene	91	12.506	12.506	(0.932)	72203	2.00000	1.968
105 1,3,5-Trimethylbenzene	105	12.683	12.683	(0.946)	48774	2.00000	1.963
108 1,2,4-Trimethylbenzene	105	13.057	13.057	(0.974)	50720	2.00000	1.974
109 sec-Butylbenzene	105	13.254	13.254	(0.988)	54680	2.00000	1.917
107 tert-Butylbenzene	119	13.017	13.017	(0.971)	43913	2.00000	1.973
110 1,3-Dichlorobenzene	146	13.342	13.342	(0.995)	26361	2.00000	1.965
* 112 1,4-Dichlorobenzene-d4	152	13.411	13.411	(1.000)	329018	30.0000	(Q)
113 1,4-Dichlorobenzene	146	13.431	13.431	(1.001)	27419	2.00000	2.012
115 n-Butylbenzene	91	13.795	13.795	(1.029)	41117	2.00000	1.907
114 1,2-Dichlorobenzene	146	13.756	13.756	(1.026)	25667	2.00000	2.007
118 1,2-Dibromo-3-chloropropane	157	14.395	14.395	(1.073)	3106	2.00000	1.976(a)
119 1,3,5-Trichlorobenzene	180	14.917	14.917	(1.112)	15293	2.00000	1.943
100 Bromobenzene	156	12.368	12.368	(0.922)	14994	2.00000	2.003
102 2-Chlorotoluene	91	12.584	12.584	(0.938)	46226	2.00000	1.984
103 4-Chlorotoluene	91	12.653	12.653	(0.943)	52275	2.00000	1.946
120 1,2,4-Trichlorobenzene	180	15.468	15.468	(1.153)	14367	2.00000	1.977
121 Naphthalene	128	15.626	15.626	(1.165)	34656	2.00000	1.991
111 p-Isopropyltoluene	119	13.391	13.391	(0.999)	46474	2.00000	1.944
122 Hexachlorobutadiene	225	15.753	15.753	(1.175)	6178	2.00000	1.875
123 1,2,3-Trichlorobenzene	180	15.911	15.911	(1.186)	11760	2.00000	1.910

QC Flag Legend

a - Target compound detected but, quantitated amount Below Limit Of Quantitation(BLOQ).

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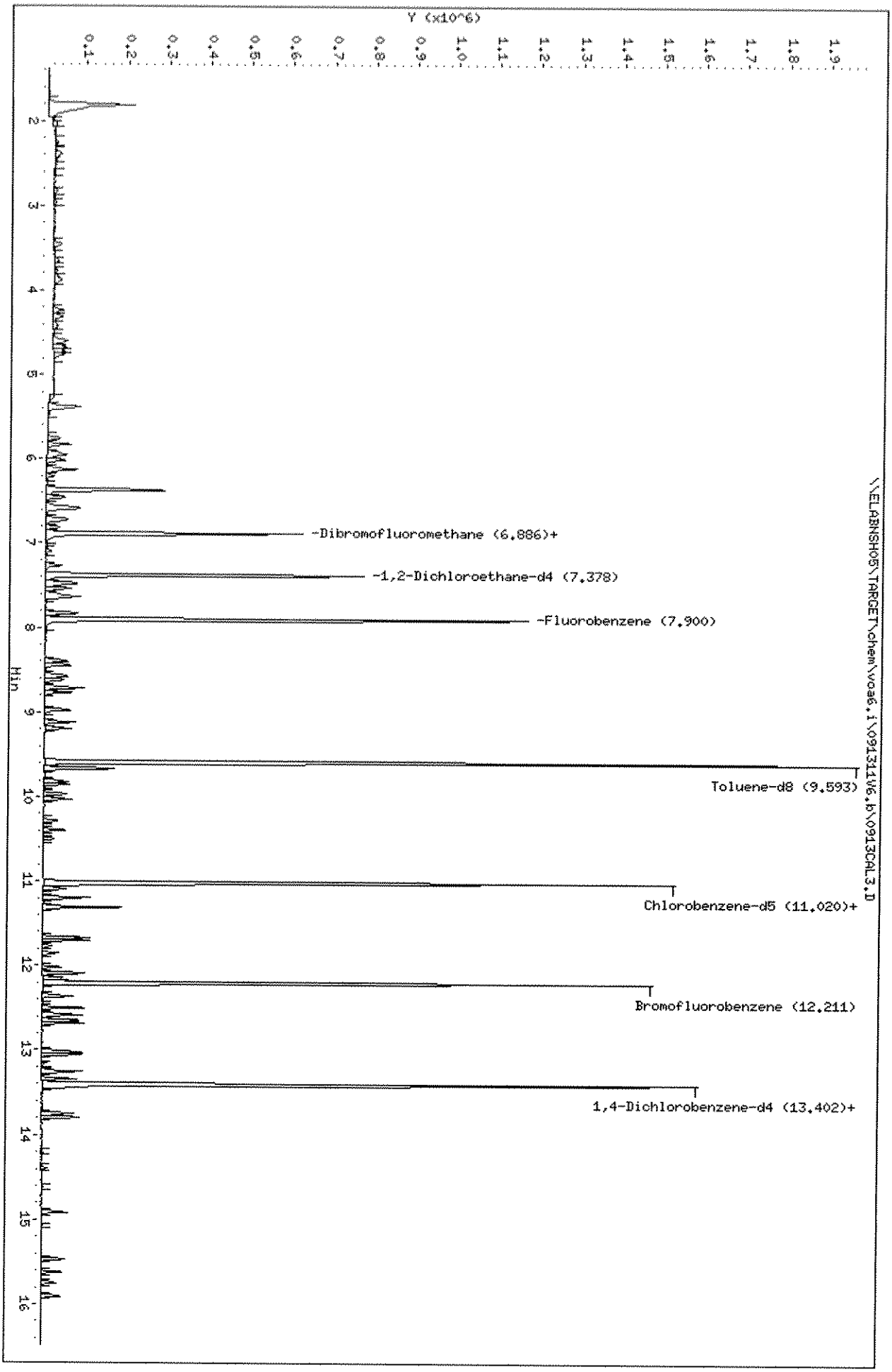
QC Flag Legend

Q - Qualifier signal failed the ratio test.


Data File: \\ELABNSHO5\TARGET\chem\voa6.i\091311V6.b\0913CAL3.D
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Client ID: SEQ-CAL3
Sample Info: SEQ-CAL3;;;;;
Purge Volume: 5.0
Column phase: RTX-VRX
Instrument: voa6.i
Operator: ABH
Column diameter: 0.25
\\ELABNSHO5\TARGET\chem\voa6.i\091311V6.b\0913CAL3.D
Y (x10^6)
Min
-Dibromofluoromethane (6.886)+
-1,2-Dichloroethane-d4 (7.378)
-Fluorobenzene (7.900)
Toluene-d8 (9.593)
Chlorobenzene-d5 (11.020)+
Bromofluorobenzene (12.211)
1,4-Dichlorobenzene-d4 (13.402)+

Data File: \\ELABNSH05\TARGET\chem\voa6.i\091311V6.b\0913CAL4.D
Report Date: 15-Sep-2011 09:37

Laboratory Name

Data file : \\ELABNSH05\TARGET\chem\voa6.i\091311V6.b\0913CAL4.D
Lab Smp Id: SEQ-CAL4 Client Smp ID: SEQ-CAL4
Inj Date : 13-SEP-2011 16:17 MS Autotune Date: 13-SEP-2011 09:32
Operator : ADM Inst ID: voa6.i
Smp Info : SEQ-CAL4;;;;;
Misc Info : ;;;;;8260.sub;
Comment :
Method : \\ELABNSH05\TARGET\chem\voa6.i\091311V6.b\VW6SUR.m
Meth Date : 15-Sep-2011 09:37 amonteiro Quant Type: ISTD
Cal Date : 13-SEP-2011 14:57 Cal File: 0913CAL1.D
Als bottle: 4 Calibration Sample, Level: 4
Dil Factor: 1.00000
Integrator: HP RTE Compound Sublist: 8260.sub
Target Version: 4.04
Processing Host: TARGET02_VM

Concentration Formula: Amt * DF * 5*Uf/Vo

Name	Value	Description
DF	1.000	Dilution Factor
Uf	1.000	unit correction factor
Vo	5.000	Volume of sample purged (mL)

A9/17/11

A9/17/11

Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	AMOUNTS CAL-AMT (ug/L)	ON-COL (ug/L)
* 55 Fluorobenzene	96	7.903	7.903	(1.000)	858032	30.0000	
1 Dichlorodifluoromethane	85	2.027	2.027	(0.257)	29787	5.00000	4.164
2 Chloromethane	50	2.244	2.244	(0.284)	37808	5.00000	4.439
3 Vinyl chloride	62	2.382	2.382	(0.301)	33977	5.00000	4.623
4 Bromomethane	94	2.824	2.824	(0.357)	20435	5.00000	4.541
5 Chloroethane	64	2.962	2.962	(0.375)	22741	5.00000	4.892
6 Trichlorofluoromethane	101	3.454	3.454	(0.437)	54610	5.00000	4.786
10 Ethyl Ether	59	3.887	3.887	(0.492)	29427	5.00000	4.819
22 Acetonitrile	41	3.848	3.848	(0.487)	60552	50.0000	49.33
14 Trichlorotrifluoroethane	101	4.320	4.320	(0.547)	29063	5.00000	4.796
7 Acrolein	56	3.651	3.651	(0.462)	32562	25.0000	23.46
36 Allyl chloride	41	4.675	4.675	(0.592)	63954	5.00000	4.789
13 1,1-Dichloroethene	96	4.242	4.242	(0.537)	26253	5.00000	4.697(Q)
9 Acetone	43	3.779	3.779	(0.478)	31355	10.0000	9.093(a)
15 t-Butyl alcohol	59	4.399	4.399	(0.557)	22397	25.0000	24.89
16 Iodomethane	142	4.429	4.429	(0.560)	32337	5.00000	5.168

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	Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	AMOUNTS CAL-AMT (ug/L)	AMOUNTS ON-COL (ug/L)
	20 Carbon disulfide	76	4.763	4.763	(0.603)	87978	5.00000	4.627
	19 Methylene chloride	84	4.724	4.724	(0.598)	32793	5.00000	4.702
	18 Acrylonitrile	53	4.606	4.606	(0.583)	66018	25.0000	23.40(Q)
	24 trans-1,2-Dichloroethene	96	5.383	5.383	(0.681)	34277	5.00000	4.781
	23 MTBE	73	5.393	5.393	(0.682)	119402	5.00000	4.949
	26 1,1-Dichloroethane	63	5.757	5.757	(0.729)	80056	5.00000	4.952
	56 Propionitrile	54	5.934	5.934	(0.751)	70675	50.0000	48.26
	27 Vinyl acetate	43	5.836	5.836	(0.738)	240776	10.0000	9.832
	69 Chloroprene	53	6.013	6.013	(0.761)	77066	5.00000	4.732
	32 Di-isopropyl ether	45	6.131	6.131	(0.776)	192906	5.00000	4.898
	35 cis-1,2-Dichloroethene	96	6.466	6.466	(0.818)	40187	5.00000	4.966(Q)
M	47 1,2-Dichloroethene(total)	96				74464	10.0000	9.747
	33 2-Butanone	43	6.210	6.210	(0.786)	58327	10.0000	9.394(a)
	73 Methacrylonitrile	41	6.368	6.368	(0.806)	397176	50.0000	49.78
	72 Hexane	57	5.954	5.954	(0.753)	45421	5.00000	4.626
	40 Bromochloromethane	128	6.742	6.742	(0.853)	19399	5.00000	4.826
	84 Isobutyl alcohol	43	6.820	6.820	(0.863)	44042	100.000	89.27
	42 Tetrahydrofuran	42	6.929	6.929	(0.877)	15306	5.00000	4.558
	43 tert-Amyl alcohol	59	7.096	7.096	(0.898)	18295	25.0000	23.30
	39 Chloroform	83	6.712	6.712	(0.849)	72322	5.00000	4.846
	17 Methyl acetate	43	4.596	4.596	(0.582)	33401	5.00000	4.461
$	41 Dibromofluoromethane	111	6.889	6.889	(0.872)	443360	50.0000	49.75
	44 1,1,1-Trichloroethane	97	7.273	7.273	(0.920)	58548	5.00000	4.914
	38 ETBE	59	6.594	6.594	(0.834)	160458	5.00000	4.886
	49 Cyclohexane	56	7.539	7.539	(0.954)	68728	5.00000	4.745
	51 Carbon tetrachloride	117	7.608	7.608	(0.963)	47590	5.00000	4.828
$	45 1,2-Dichloroethane-d4	102	7.381	7.381	(0.934)	92448	50.0000	49.76
	52 Benzene	78	7.637	7.637	(0.966)	147150	5.00000	4.888
	54 tert-Amyl Methyl Ether	73	7.834	7.834	(0.991)	128089	5.00000	4.840
	46 1,2-Dichloroethane	62	7.470	7.470	(0.945)	75280	5.00000	4.994
	37 2,2-Dichloropropane	77	6.564	6.564	(0.831)	58723	5.00000	4.815
	48 1,1-Dichloropropene	75	7.490	7.490	(0.948)	55943	5.00000	4.913
	58 Trichloroethene	95	8.395	8.395	(1.062)	38516	5.00000	4.919
	62 1,4-Dioxane	88	8.602	8.602	(1.088)	7993	100.000	98.00(Q)
	59 1,2-Dichloropropane	63	8.444	8.444	(1.068)	45725	5.00000	5.045
	61 Dibromomethane	93	8.562	8.562	(1.083)	27489	5.00000	4.876
	50 Methyl methacrylate	41	8.582	8.582	(1.086)	55946	5.00000	4.798
	63 Bromodichloromethane	83	8.621	8.621	(1.091)	56418	5.00000	4.770
	64 tert-Amyl Ethyl Ether	59	8.710	8.710	(1.102)	128873	5.00000	4.945
	68 2-Chloroethyl vinyl ether	63	8.976	8.976	(1.136)	56057	10.0000	9.736
	71 cis-1,3-Dichloropropene	75	9.192	9.192	(1.163)	66645	5.00000	4.936
	70 4-Methyl-2-pentanone	43	9.123	9.123	(1.154)	116738	10.0000	9.691
$	75 Toluene-d8	98	9.596	9.596	(0.871)	1325102	50.0000	49.88
	77 Toluene	92	9.665	9.665	(0.878)	86579	5.00000	4.906
	76 trans-1,3-Dichloropropene	75	9.665	9.665	(0.878)	70447	5.00000	4.896
	79 Ethyl methacrylate	69	9.852	9.852	(0.895)	60066	5.00000	4.778
	78 1,1,2-Trichloroethane	83	9.822	9.822	(0.892)	30550	5.00000	4.959

Data File: \\ELABNSH05\TARGET\chem\voa6.i\091311V6.b\0913CAL4.D
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Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	AMOUNTS CAL-AMT (ug/L)	AMOUNTS ON-COL (ug/L)
83 Tetrachloroethene	166	10.403	10.403	(0.945)	31469	5.00000	4.838
80 2-Hexanone	43	9.970	9.970	(0.905)	80323	10.0000	9.106
82 Dibromochloromethane	129	10.285	10.285	(0.934)	37961	5.00000	4.652
85 1,2-Dibromoethane	107	10.501	10.501	(0.954)	38067	5.00000	4.811
65 Methyl cyclohexane	83	8.769	8.769	(1.110)	45808	5.00000	4.737
* 86 Chlorobenzene-d5	82	11.013	11.013	(1.000)	403998	30.0000	
88 Chlorobenzene	112	11.052	11.052	(1.004)	96550	5.00000	4.824
89 1,1,1,2-Tetrachloroethane	131	11.092	11.092	(1.007)	33584	5.00000	4.744
87 1-Chlorohexane	91	11.013	11.013	(1.000)	48668	5.00000	4.571
90 Ethylbenzene	91	11.200	11.200	(1.017)	166299	5.00000	4.805
91 m,p-Xylene	91	11.308	11.308	(1.027)	262141	10.0000	9.810
M 127 Xylene(total)	91				397571	15.0000	14.61
93 o-Xylene	91	11.702	11.702	(1.063)	135430	5.00000	4.801
92 Styrene	104	11.672	11.672	(1.060)	105599	5.00000	4.782
95 Bromoform	173	11.781	11.781	(1.070)	21346	5.00000	4.714
125 cis-1,4-Dichloro-2-butene	75	11.859	11.859	(0.885)	15772	5.00000	4.794(a)
97 Isopropylbenzene	105	12.096	12.096	(1.098)	137625	5.00000	4.777
$ 99 Bromofluorobenzene	95	12.204	12.204	(1.108)	570965	50.0000	48.26
96 1,1,2,2-Tetrachloroethane	83	12.017	12.017	(0.896)	45681	5.00000	4.745
81 1,3-Dichloropropane	76	10.029	10.029	(0.911)	63012	5.00000	4.886
98 1,2,3-Trichloropropane	110	12.145	12.145	(1.103)	13981	5.00000	5.071(Q)
124 trans-1,4-Dichloro-2-butene	53	12.164	12.164	(0.907)	21588	5.00000	4.803(a)
101 n-Propylbenzene	91	12.499	12.499	(0.932)	176652	5.00000	4.749
105 1,3,5-Trimethylbenzene	105	12.686	12.686	(0.946)	121664	5.00000	4.831
108 1,2,4-Trimethylbenzene	105	13.050	13.050	(0.974)	124834	5.00000	4.794
109 sec-Butylbenzene	105	13.257	13.257	(0.989)	136776	5.00000	4.730
107 tert-Butylbenzene	119	13.021	13.021	(0.971)	108868	5.00000	4.826
110 1,3-Dichlorobenzene	146	13.346	13.346	(0.996)	65738	5.00000	4.835
* 112 1,4-Dichlorobenzene-d4	152	13.405	13.405	(1.000)	333506	30.0000	(Q)
113 1,4-Dichlorobenzene	146	13.434	13.434	(1.002)	67189	5.00000	4.865
115 n-Butylbenzene	91	13.798	13.798	(1.029)	103448	5.00000	4.733
114 1,2-Dichlorobenzene	146	13.749	13.749	(1.026)	62498	5.00000	4.822
118 1,2-Dibromo-3-chloropropane	157	14.399	14.399	(1.074)	7179	5.00000	4.505
119 1,3,5-Trichlorobenzene	180	14.920	14.920	(1.113)	37363	5.00000	4.683
100 Bromobenzene	156	12.371	12.371	(0.923)	37812	5.00000	4.982
102 2-Chlorotoluene	91	12.588	12.588	(0.939)	115314	5.00000	4.884
103 4-Chlorotoluene	91	12.647	12.647	(0.943)	132322	5.00000	4.859
120 1,2,4-Trichlorobenzene	180	15.471	15.471	(1.154)	33129	5.00000	4.498
121 Naphthalene	128	15.619	15.619	(1.165)	80547	5.00000	4.565
111 p-Isopropyltoluene	119	13.395	13.395	(0.999)	116245	5.00000	4.797
122 Hexachlorobutadiene	225	15.757	15.757	(1.175)	15053	5.00000	4.507
123 1,2,3-Trichlorobenzene	180	15.904	15.904	(1.186)	28922	5.00000	4.633

QC Flag Legend

a - Target compound detected but, quantitated amount Below Limit Of Quantitation(BLOQ).

Data File: \\ELABNSH05\TARGET\chem\voa6.i\091311V6.b\0913CAL4.D
Report Date: 15-Sep-2011 09:37

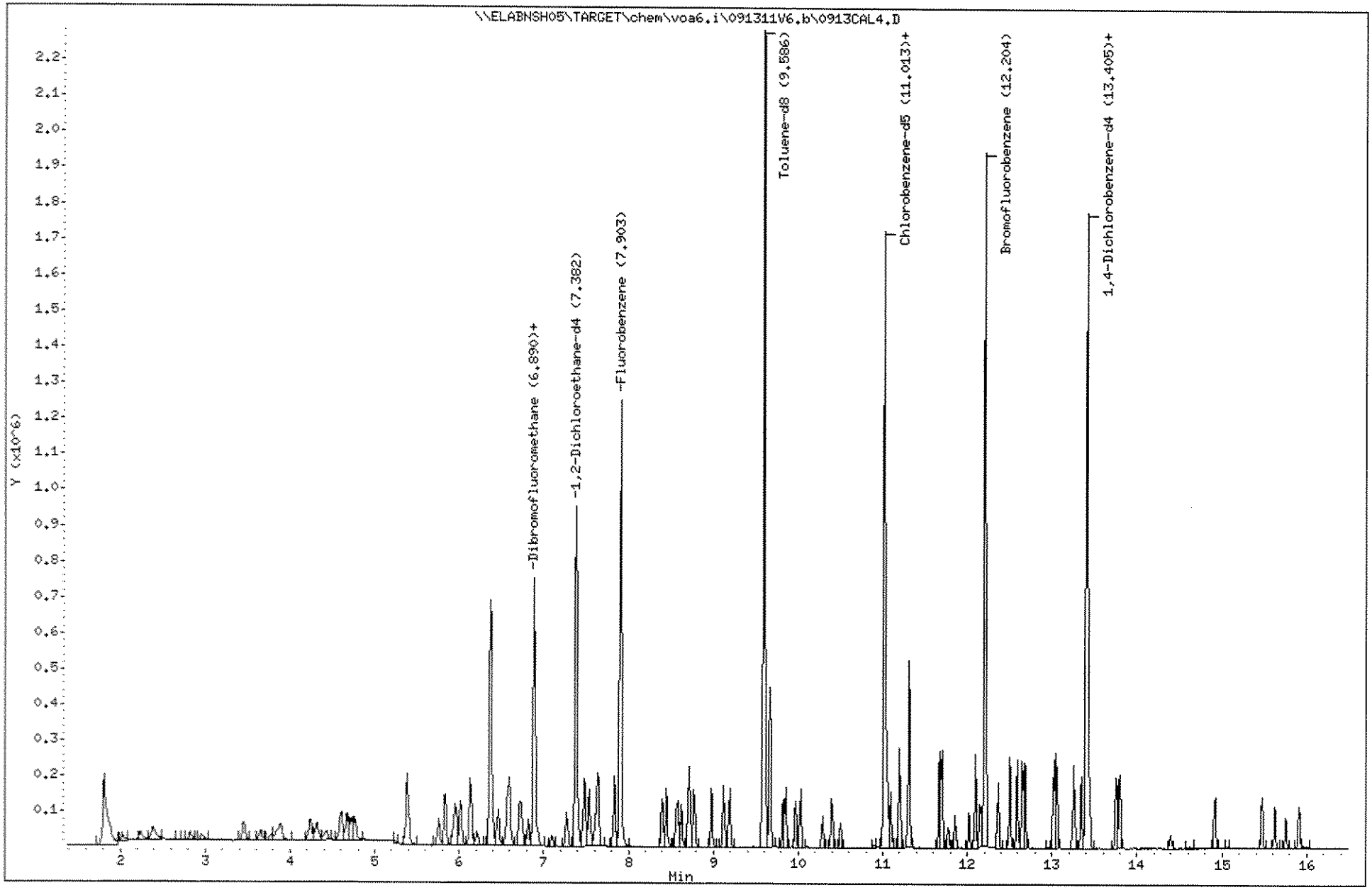
QC Flag Legend

Q - Qualifier signal failed the ratio test.

Data File: \\ELABNSH05\TARGET\chem\voa6.i\091311V6.b\0913CAL4.D
Date : 13-SEP-2011 16:17
Client ID: SEQ-CAL4
Sample Info: SEQ-CAL4;;;;;
Purge Volume: 5.0
Column phase: RTX-VRX

Instrument: voa6.i

Operator: ADM
Column diameter: 0.25



Data File: \\ELABNSH05\TARGET\chem\voa6.i\091311V6.b\0913CAL5.D
Report Date: 15-Sep-2011 09:37

Laboratory Name

Data file : \\ELABNSH05\TARGET\chem\voa6.i\091311V6.b\0913CAL5.D
Lab Smp Id: SEQ-CAL5 Client Smp ID: SEQ-CAL5
Inj Date : 13-SEP-2011 16:44 MS Autotune Date: 13-SEP-2011 09:32
Operator : ADM Inst ID: voa6.i
Smp Info : SEQ-CAL5;;;;;
Misc Info : ;;;;;8260.sub;
Comment :
Method : \\ELABNSH05\TARGET\chem\voa6.i\091311V6.b\VW6SUR.m
Meth Date : 15-Sep-2011 09:37 amonteiro Quant Type: ISTD
Cal Date : 13-SEP-2011 14:57 Cal File: 0913CAL1.D
Als bottle: 5 Calibration Sample, Level: 5
Dil Factor: 1.00000
Integrator: HP RTE Compound Sublist: 8260.sub
Target Version: 4.04
Processing Host: TARGET02_VM

Concentration Formula: Amt * DF * 5*Uf/Vo

Name	Value	Description
DF	1.000	Dilution Factor
Uf	1.000	unit correction factor
Vo	5.000	Volume of sample purged (mL)

mes 11/7/11

CH 1/5/11

Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	AMOUNTS CAL-AMT (ug/L)	ON-COL (ug/L)
* 55 Fluorobenzene	96	7.906	7.906	(1.000)	848678	30.0000	
1 Dichlorodifluoromethane	85	2.030	2.030	(0.257)	76166	10.0000	10.76
2 Chloromethane	50	2.246	2.246	(0.284)	85160	10.0000	10.11
3 Vinyl chloride	62	2.384	2.384	(0.302)	73755	10.0000	10.14
4 Bromomethane	94	2.827	2.827	(0.358)	41398	10.0000	9.301
5 Chloroethane	64	2.955	2.955	(0.374)	47119	10.0000	10.25
6 Trichlorofluoromethane	101	3.457	3.457	(0.437)	116764	10.0000	10.34
10 Ethyl Ether	59	3.890	3.890	(0.492)	58208	10.0000	9.637
22 Acetonitrile	41	3.841	3.841	(0.486)	118696	100.000	97.77
14 Trichlorotrifluoroethane	101	4.313	4.313	(0.546)	58903	10.0000	9.828
7 Acrolein	56	3.654	3.654	(0.462)	64596	50.0000	47.05
36 Allyl chloride	41	4.668	4.668	(0.590)	128584	10.0000	9.735
13 1,1-Dichloroethene	96	4.234	4.234	(0.536)	51182	10.0000	9.258(Q)
9 Acetone	43	3.772	3.772	(0.477)	66360	20.0000	19.46
15 t-Butyl alcohol	59	4.402	4.402	(0.557)	41447	50.0000	46.57
16 Iodomethane	142	4.431	4.431	(0.561)	70918	10.0000	9.485

Data File: \\ELABNSH05\TARGET\chem\voa6.i\091311V6.b\0913CAL5.D
Report Date: 15-Sep-2011 09:37

	Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	AMOUNTS CAL-AMT (ug/L)	AMOUNTS ON-COL (ug/L)
	20 Carbon disulfide	76	4.766	4.766	(0.603)	189700	10.0000	10.09
	19 Methylene chloride	84	4.717	4.717	(0.597)	64543	10.0000	9.356
	18 Acrylonitrile	53	4.608	4.608	(0.583)	137611	50.0000	49.32(Q)
	24 trans-1,2-Dichloroethene	96	5.386	5.386	(0.681)	68809	10.0000	9.704
	23 MTBE	73	5.386	5.386	(0.681)	236691	10.0000	9.918
	26 1,1-Dichloroethane	63	5.750	5.750	(0.727)	160130	10.0000	10.01
	56 Propionitrile	54	5.927	5.927	(0.750)	141458	100.000	97.65
	27 Vinyl acetate	43	5.829	5.829	(0.737)	487457	20.0000	20.12
	69 Chloroprene	53	6.016	6.016	(0.761)	163844	10.0000	10.17
	32 Di-isopropyl ether	45	6.134	6.134	(0.776)	389496	10.0000	9.999
	35 cis-1,2-Dichloroethene	96	6.459	6.459	(0.817)	79043	10.0000	9.874(Q)
M	47 1,2-Dichloroethene(total)	96				147852	20.0000	19.58
	33 2-Butanone	43	6.213	6.213	(0.786)	119657	20.0000	19.48
	73 Methacrylonitrile	41	6.370	6.370	(0.806)	796499	100.000	100.9
	72 Hexane	57	5.957	5.957	(0.754)	97538	10.0000	10.04
	40 Bromochloromethane	128	6.734	6.734	(0.852)	40372	10.0000	10.15
	84 Isobutyl alcohol	43	6.813	6.813	(0.862)	90340	200.000	185.1
	42 Tetrahydrofuran	42	6.931	6.931	(0.877)	29513	10.0000	8.885
	43 tert-Amyl alcohol	59	7.099	7.099	(0.898)	35418	50.0000	45.60
	39 Chloroform	83	6.715	6.715	(0.849)	141569	10.0000	9.590
	17 Methyl acetate	43	4.589	4.589	(0.580)	68741	10.0000	9.283
$	41 Dibromofluoromethane	111	6.882	6.882	(0.871)	519366	60.0000	58.93
	44 1,1,1-Trichloroethane	97	7.266	7.266	(0.919)	119172	10.0000	10.11
	38 ETBE	59	6.597	6.597	(0.834)	321098	10.0000	9.886
	49 Cyclohexane	56	7.541	7.541	(0.954)	142336	10.0000	9.935
	51 Carbon tetrachloride	117	7.610	7.610	(0.963)	98662	10.0000	10.12
$	45 1,2-Dichloroethane-d4	102	7.384	7.384	(0.934)	109649	60.0000	59.66
	52 Benzene	78	7.640	7.640	(0.966)	296722	10.0000	9.966
	54 tert-Amyl Methyl Ether	73	7.837	7.837	(0.991)	257197	10.0000	9.825
	46 1,2-Dichloroethane	62	7.473	7.473	(0.945)	149643	10.0000	10.04
	37 2,2-Dichloropropane	77	6.567	6.567	(0.831)	121510	10.0000	10.07
	48 1,1-Dichloropropene	75	7.492	7.492	(0.948)	113016	10.0000	10.04(Q)
	58 Trichloroethene	95	8.398	8.398	(1.062)	77037	10.0000	9.946
	62 1,4-Dioxane	88	8.604	8.604	(1.088)	15803	200.000	195.9(Q)
	59 1,2-Dichloropropane	63	8.447	8.447	(1.068)	89824	10.0000	10.02
	61 Dibromomethane	93	8.555	8.555	(1.082)	54792	10.0000	9.826
	50 Methyl methacrylate	41	8.585	8.585	(1.086)	114405	10.0000	9.920
	63 Bromodichloromethane	83	8.624	8.624	(1.091)	114692	10.0000	9.803
	64 tert-Amyl Ethyl Ether	59	8.713	8.713	(1.102)	258618	10.0000	10.03
	68 2-Chloroethyl vinyl ether	63	8.978	8.978	(1.136)	113688	20.0000	19.96
	71 cis-1,3-Dichloropropene	75	9.195	9.195	(1.163)	130424	10.0000	9.766
	70 4-Methyl-2-pentanone	43	9.116	9.116	(1.153)	230763	20.0000	19.37
$	75 Toluene-d8	98	9.589	9.589	(0.870)	1548696	60.0000	58.66
	77 Toluene	92	9.667	9.667	(0.878)	171992	10.0000	9.806
	76 trans-1,3-Dichloropropene	75	9.667	9.667	(0.878)	140991	10.0000	9.860
	79 Ethyl methacrylate	69	9.854	9.854	(0.895)	118003	10.0000	9.444
	78 1,1,2-Trichloroethane	83	9.815	9.815	(0.891)	59269	10.0000	9.681

Data File: \\ELABNSH05\TARGET\chem\voa6.i\091311V6.b\0913CAL5.D
Report Date: 15-Sep-2011 09:37

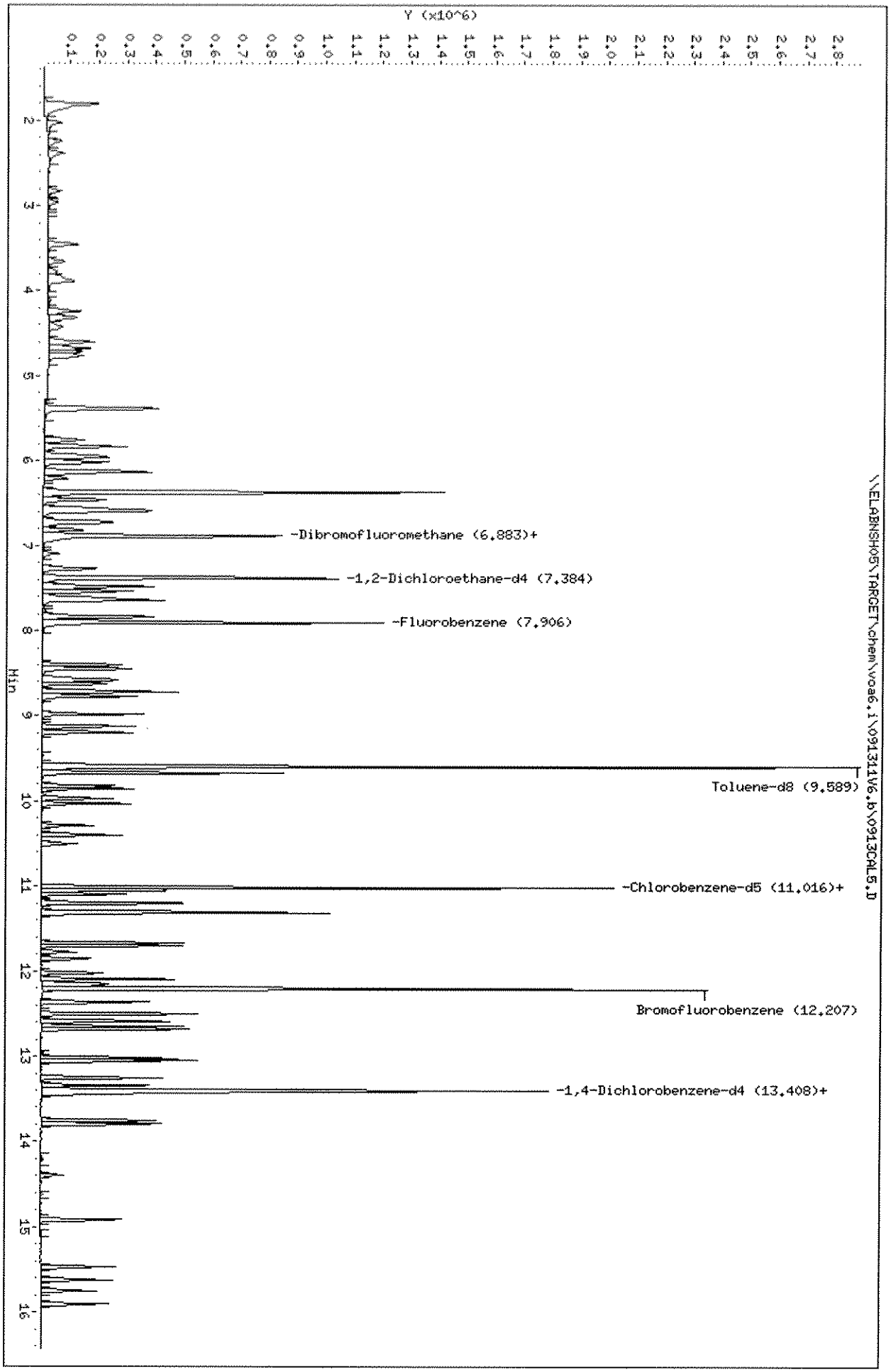
Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	AMOUNTS CAL-AMT (ug/L)	AMOUNTS ON-COL (ug/L)
83 Tetrachloroethene	166	10.396	10.396	(0.944)	62025	10.0000	9.595
80 2-Hexanone	43	9.963	9.963	(0.904)	166733	20.0000	19.02
82 Dibromochloromethane	129	10.287	10.287	(0.934)	76768	10.0000	9.465
85 1,2-Dibromoethane	107	10.504	10.504	(0.954)	75053	10.0000	9.544
65 Methyl cyclohexane	83	8.772	8.772	(1.110)	93101	10.0000	9.734
* 86 Chlorobenzene-d5	82	11.016	11.016	(1.000)	401516	30.0000	
88 Chlorobenzene	112	11.055	11.055	(1.004)	190349	10.0000	9.570
89 1,1,1,2-Tetrachloroethane	131	11.094	11.094	(1.007)	66150	10.0000	9.402
87 1-Chlorohexane	91	11.016	11.016	(1.000)	93720	10.0000	8.858
90 Ethylbenzene	91	11.203	11.203	(1.017)	329121	10.0000	9.568
91 m,p-Xylene	91	11.311	11.311	(1.027)	514107	20.0000	19.36
M 127 Xylene(total)	91				780630	30.0000	28.87
93 o-Xylene	91	11.705	11.705	(1.063)	266523	10.0000	9.508
92 Styrene	104	11.675	11.675	(1.060)	214424	10.0000	9.770
95 Bromoform	173	11.773	11.773	(1.069)	45141	10.0000	10.03
125 cis-1,4-Dichloro-2-butene	75	11.862	11.862	(0.885)	31545	10.0000	9.519
97 Isopropylbenzene	105	12.098	12.098	(1.098)	276074	10.0000	9.641
$ 99 Bromofluorobenzene	95	12.207	12.207	(1.108)	670531	60.0000	57.03
96 1,1,2,2-Tetrachloroethane	83	12.020	12.020	(0.896)	93655	10.0000	9.659
81 1,3-Dichloropropane	76	10.031	10.031	(0.911)	123990	10.0000	9.674
98 1,2,3-Trichloropropane	110	12.147	12.147	(1.103)	26121	10.0000	9.532
124 trans-1,4-Dichloro-2-butene	53	12.167	12.167	(0.908)	43006	10.0000	9.500
101 n-Propylbenzene	91	12.502	12.502	(0.932)	358791	10.0000	9.577
105 1,3,5-Trimethylbenzene	105	12.679	12.679	(0.946)	247246	10.0000	9.748
108 1,2,4-Trimethylbenzene	105	13.053	13.053	(0.974)	252206	10.0000	9.616
109 sec-Butylbenzene	105	13.260	13.260	(0.989)	281651	10.0000	9.671
107 tert-Butylbenzene	119	13.023	13.023	(0.971)	219512	10.0000	9.661
110 1,3-Dichlorobenzene	146	13.348	13.348	(0.996)	131246	10.0000	9.583
* 112 1,4-Dichlorobenzene-d4	152	13.407	13.407	(1.000)	335915	30.0000	(Q)
113 1,4-Dichlorobenzene	146	13.437	13.437	(1.002)	133292	10.0000	9.582
115 n-Butylbenzene	91	13.791	13.791	(1.029)	213705	10.0000	9.708
114 1,2-Dichlorobenzene	146	13.752	13.752	(1.026)	127432	10.0000	9.761
118 1,2-Dibromo-3-chloropropane	157	14.391	14.391	(1.073)	14837	10.0000	9.243
119 1,3,5-Trichlorobenzene	180	14.923	14.923	(1.113)	75190	10.0000	9.357
100 Bromobenzene	156	12.364	12.364	(0.922)	72021	10.0000	9.422
102 2-Chlorotoluene	91	12.590	12.590	(0.939)	228538	10.0000	9.610
103 4-Chlorotoluene	91	12.649	12.649	(0.943)	264720	10.0000	9.651
120 1,2,4-Trichlorobenzene	180	15.474	15.474	(1.154)	69282	10.0000	9.339
121 Naphthalene	128	15.622	15.622	(1.165)	163078	10.0000	9.177
111 p-Isopropyltoluene	119	13.397	13.397	(0.999)	234498	10.0000	9.607
122 Hexachlorobutadiene	225	15.750	15.750	(1.175)	32252	10.0000	9.587
123 1,2,3-Trichlorobenzene	180	15.907	15.907	(1.186)	58151	10.0000	9.249

QC Flag Legend

Q - Qualifier signal failed the ratio test.

Data File: \\ELABNSH05\TARGET\chem\voa6.i\091311V6.b\0913CAL5.D
Date : 13-SEP-2011 16:44
Client ID: SEQ-CAL5
Sample Info: SEQ-CAL5;;;;;
Purge Volume: 5.0
Column phase: RTX-VRX

Instrument: voa6.i
Operator: ADH
Column diameter: 0.25



Data File: \\ELABNSH05\TARGET\chem\voa6.i\091311V6.b\0913CAL6.D
Report Date: 15-Sep-2011 09:37

Laboratory Name

Data file : \\ELABNSH05\TARGET\chem\voa6.i\091311V6.b\0913CAL6.D
Lab Smp Id: SEQ-CAL6 Client Smp ID: SEQ-CAL6
Inj Date : 13-SEP-2011 17:10 MS Autotune Date: 13-SEP-2011 09:32
Operator : ADM Inst ID: voa6.i
Smp Info : SEQ-CAL6;;;;;
Misc Info : ;;;;;8260.sub;
Comment :
Method : \\ELABNSH05\TARGET\chem\voa6.i\091311V6.b\VW6SUR.m
Meth Date : 15-Sep-2011 09:37 amonteiro Quant Type: ISTD
Cal Date : 13-SEP-2011 14:57 Cal File: 0913CAL1.D
Als bottle: 6 Calibration Sample, Level: 6
Dil Factor: 1.00000
Integrator: HP RTE Compound Sublist: 8260.sub
Target Version: 4.04
Processing Host: TARGET02_VM

Concentration Formula: Amt * DF * 5*Uf/Vo

Name	Value	Description
DF	1.000	Dilution Factor
Uf	1.000	unit correction factor
Vo	5.000	Volume of sample purged (mL)

09/15/11 ma 9/14/11

Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	AMOUNTS CAL-AMT (ug/L)	AMOUNTS ON-COL (ug/L)
* 55 Fluorobenzene	96	7.910	7.910	(1.000)	891069	30.0000	
1 Dichlorodifluoromethane	85	2.024	2.024	(0.256)	407125	50.0000	54.81
2 Chloromethane	50	2.241	2.241	(0.283)	450164	50.0000	50.89
3 Vinyl chloride	62	2.378	2.378	(0.301)	385803	50.0000	50.54
4 Bromomethane	94	2.821	2.821	(0.357)	234445	50.0000	50.17
5 Chloroethane	64	2.959	2.959	(0.374)	241381	50.0000	50.00
6 Trichlorofluoromethane	101	3.451	3.451	(0.436)	621916	50.0000	52.48
10 Ethyl Ether	59	3.884	3.884	(0.491)	312181	50.0000	49.23
22 Acetonitrile	41	3.845	3.845	(0.486)	645844	500.000	506.7
14 Trichlorotrifluoroethane	101	4.317	4.317	(0.546)	317800	50.0000	50.50
7 Acrolein	56	3.658	3.658	(0.462)	349732	250.000	242.6
36 Allyl chloride	41	4.672	4.672	(0.591)	676790	50.0000	48.80
13 1,1-Dichloroethene	96	4.238	4.238	(0.536)	285240	50.0000	49.14(Q)
9 Acetone	43	3.766	3.766	(0.476)	345008	100.000	96.35
15 t-Butyl alcohol	59	4.406	4.406	(0.557)	223263	250.000	238.9
16 Iodomethane	142	4.435	4.435	(0.561)	445186	50.0000	48.64

Data File: \\ELABNSH05\TARGET\chem\voa6.i\091311V6.b\0913CAL6.D
Report Date: 15-Sep-2011 09:37

	Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	AMOUNTS CAL-AMT (ug/L)	AMOUNTS ON-COL (ug/L)
	20 Carbon disulfide	76	4.770	4.770	(0.603)	993826	50.0000	50.33
	19 Methylene chloride	84	4.721	4.721	(0.597)	327248	50.0000	45.18
	18 Acrylonitrile	53	4.603	4.603	(0.582)	746695	250.000	254.9(Q)
	24 trans-1,2-Dichloroethene	96	5.380	5.380	(0.680)	358637	50.0000	48.17
	23 MTBE	73	5.390	5.390	(0.681)	1253469	50.0000	50.03
	26 1,1-Dichloroethane	63	5.754	5.754	(0.728)	855527	50.0000	50.96
	56 Propionitrile	54	5.931	5.931	(0.750)	762710	500.000	501.5
	27 Vinyl acetate	43	5.833	5.833	(0.737)	2746061	100.000	108.0
	69 Chloroprene	53	6.020	6.020	(0.761)	874491	50.0000	51.70
	32 Di-isopropyl ether	45	6.128	6.128	(0.775)	2059369	50.0000	50.35
	35 cis-1,2-Dichloroethene	96	6.463	6.463	(0.817)	424350	50.0000	50.49(Q)
M	47 1,2-Dichloroethene(total)	96				782987	100.000	98.66
	33 2-Butanone	43	6.207	6.207	(0.785)	661515	100.000	102.6
	73 Methacrylonitrile	41	6.384	6.384	(0.807)	4289487	500.000	517.7
	72 Hexane	57	5.961	5.961	(0.754)	516408	50.0000	50.65
	40 Bromochloromethane	128	6.738	6.738	(0.852)	221603	50.0000	53.08
	84 Isobutyl alcohol	43	6.817	6.817	(0.862)	518061	1000.00	1011
	42 Tetrahydrofuran	42	6.935	6.935	(0.877)	165590	50.0000	47.48
	43 tert-Amyl alcohol	59	7.102	7.102	(0.898)	205296	250.000	251.7
	39 Chloroform	83	6.719	6.719	(0.849)	774892	50.0000	49.99
	17 Methyl acetate	43	4.593	4.593	(0.581)	382861	50.0000	49.24
$	41 Dibromofluoromethane	111	6.886	6.886	(0.871)	625377	70.0000	67.58
	44 1,1,1-Trichloroethane	97	7.270	7.270	(0.919)	644604	50.0000	52.09
	38 ETBE	59	6.591	6.591	(0.833)	1757822	50.0000	51.55
	49 Cyclohexane	56	7.536	7.536	(0.953)	746128	50.0000	49.60
	51 Carbon tetrachloride	117	7.614	7.614	(0.963)	543039	50.0000	53.05
$	45 1,2-Dichloroethane-d4	102	7.378	7.378	(0.933)	128140	70.0000	66.41
	52 Benzene	78	7.644	7.644	(0.966)	1594133	50.0000	51.00
	54 tert-Amyl Methyl Ether	73	7.841	7.841	(0.991)	1407600	50.0000	51.21
	46 1,2-Dichloroethane	62	7.476	7.476	(0.945)	798263	50.0000	50.99
	37 2,2-Dichloropropane	77	6.571	6.571	(0.831)	636434	50.0000	50.25
	48 1,1-Dichloropropene	75	7.486	7.486	(0.946)	593985	50.0000	50.23(Q)
	58 Trichloroethene	95	8.402	8.402	(1.062)	412222	50.0000	50.69
	62 1,4-Dioxane	88	8.608	8.608	(1.088)	88803	1000.00	1048(Q)
	59 1,2-Dichloropropane	63	8.451	8.451	(1.068)	479310	50.0000	50.92
	61 Dibromomethane	93	8.559	8.559	(1.082)	299621	50.0000	51.17
	50 Methyl methacrylate	41	8.579	8.579	(1.085)	613048	50.0000	50.63
	63 Bromodichloromethane	83	8.628	8.628	(1.091)	632055	50.0000	51.45
	64 tert-Amyl Ethyl Ether	59	8.717	8.717	(1.102)	1405165	50.0000	51.92
	68 2-Chloroethyl vinyl ether	63	8.982	8.982	(1.136)	635268	100.000	106.2
	71 cis-1,3-Dichloropropene	75	9.199	9.199	(1.163)	723038	50.0000	51.56
	70 4-Methyl-2-pentanone	43	9.120	9.120	(1.153)	1288842	100.000	103.0
$	75 Toluene-d8	98	9.593	9.593	(0.871)	1873423	70.0000	68.57
	77 Toluene	92	9.671	9.671	(0.878)	924208	50.0000	50.92
	76 trans-1,3-Dichloropropene	75	9.671	9.671	(0.878)	760089	50.0000	51.37
	79 Ethyl methacrylate	69	9.858	9.858	(0.895)	666444	50.0000	51.54
	78 1,1,2-Trichloroethane	83	9.819	9.819	(0.891)	320703	50.0000	50.62

Data File: \\ELABNSH05\TARGET\chem\voa6.i\091311V6.b\0913CAL6.D
Report Date: 15-Sep-2011 09:37

Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	AMOUNTS CAL-AMT (ug/L)	AMOUNTS ON-COL (ug/L)
83 Tetrachloroethene	166	10.400	10.400	(0.944)	337480	50.0000	50.45
80 2-Hexanone	43	9.967	9.967	(0.904)	944954	100.000	104.2
82 Dibromochloromethane	129	10.291	10.291	(0.934)	448836	50.0000	53.48
85 1,2-Dibromoethane	107	10.498	10.498	(0.953)	418669	50.0000	51.45
65 Methyl cyclohexane	83	8.776	8.776	(1.109)	510557	50.0000	50.84
* 86 Chlorobenzene-d5	82	11.020	11.020	(1.000)	415502	30.0000	
88 Chlorobenzene	112	11.059	11.059	(1.004)	1047360	50.0000	50.89
89 1,1,1,2-Tetrachloroethane	131	11.098	11.098	(1.007)	376373	50.0000	51.70
87 1-Chlorohexane	91	11.020	11.020	(1.000)	509231	50.0000	46.51
90 Ethylbenzene	91	11.197	11.197	(1.016)	1830157	50.0000	51.42
91 m,p-Xylene	91	11.315	11.315	(1.027)	2880946	100.000	104.8
M 127 Xylene(total)	91				4362723	150.000	155.9
93 o-Xylene	91	11.699	11.699	(1.062)	1481777	50.0000	51.08
92 Styrene	104	11.669	11.669	(1.059)	1180467	50.0000	51.98
95 Bromoform	173	11.777	11.777	(1.069)	270495	50.0000	58.09
125 cis-1,4-Dichloro-2-butene	75	11.856	11.856	(0.884)	183059	50.0000	53.68
97 Isopropylbenzene	105	12.102	12.102	(1.098)	1544984	50.0000	52.14
$ 99 Bromofluorobenzene	95	12.210	12.210	(1.108)	818144	70.0000	67.24
96 1,1,2,2-Tetrachloroethane	83	12.023	12.023	(0.897)	517205	50.0000	51.84
81 1,3-Dichloropropane	76	10.035	10.035	(0.911)	678082	50.0000	51.13
98 1,2,3-Trichloropropane	110	12.151	12.151	(1.103)	145118	50.0000	51.17
124 trans-1,4-Dichloro-2-butene	53	12.171	12.171	(0.908)	239104	50.0000	51.32
101 n-Propylbenzene	91	12.506	12.506	(0.932)	2007268	50.0000	52.06
105 1,3,5-Trimethylbenzene	105	12.683	12.683	(0.946)	1361824	50.0000	52.18
108 1,2,4-Trimethylbenzene	105	13.057	13.057	(0.974)	1409306	50.0000	52.22
109 sec-Butylbenzene	105	13.254	13.254	(0.988)	1558760	50.0000	52.01
107 tert-Butylbenzene	119	13.027	13.027	(0.971)	1219239	50.0000	52.14
110 1,3-Dichlorobenzene	146	13.342	13.342	(0.995)	720041	50.0000	51.09
* 112 1,4-Dichlorobenzene-d4	152	13.411	13.411	(1.000)	345676	30.0000	(Q)
113 1,4-Dichlorobenzene	146	13.441	13.441	(1.002)	728234	50.0000	50.87
115 n-Butylbenzene	91	13.795	13.795	(1.029)	1175077	50.0000	51.87
114 1,2-Dichlorobenzene	146	13.756	13.756	(1.026)	688814	50.0000	51.27
118 1,2-Dibromo-3-chloropropane	157	14.395	14.395	(1.073)	85385	50.0000	51.69
119 1,3,5-Trichlorobenzene	180	14.917	14.917	(1.112)	421994	50.0000	51.03
100 Bromobenzene	156	12.368	12.368	(0.922)	402760	50.0000	51.20
102 2-Chlorotoluene	91	12.594	12.594	(0.939)	1256813	50.0000	51.36
103 4-Chlorotoluene	91	12.653	12.653	(0.943)	1469555	50.0000	52.06
120 1,2,4-Trichlorobenzene	180	15.478	15.478	(1.154)	384053	50.0000	50.30
121 Naphthalene	128	15.626	15.626	(1.165)	907543	50.0000	49.63
111 p-Isopropyltoluene	119	13.392	13.392	(0.999)	1280484	50.0000	50.98
122 Hexachlorobutadiene	225	15.754	15.754	(1.175)	176139	50.0000	50.88
123 1,2,3-Trichlorobenzene	180	15.911	15.911	(1.186)	326113	50.0000	50.40

QC Flag Legend

Q - Qualifier signal failed the ratio test.

Data File: \\ELABNSH05\TARGET\chem\voa6.i\091311V6.b\0913CAL6.D
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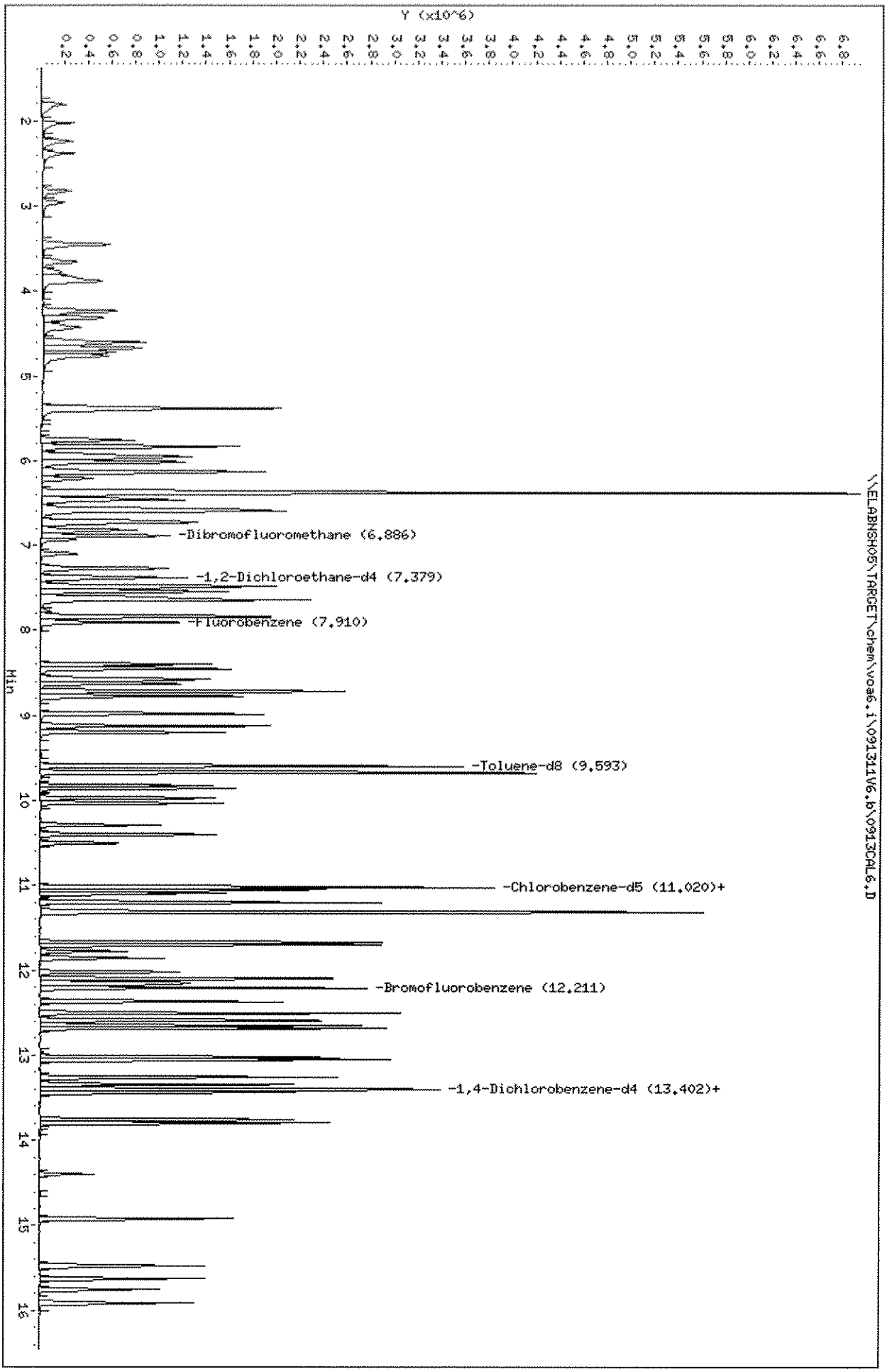
Sample Info: SEQ-CAL6;;;;;
Purge Volume: 5.0
Column phase: RTX-VRX

Instrument: voa6.i
Operator: ADM
Column diameter: 0.25



Data File: \\ELABNSH05\TARGET\chem\voa6.i\091311V6.b\0913CAL7.D
Report Date: 15-Sep-2011 09:37

Laboratory Name

Data file : \\ELABNSH05\TARGET\chem\voa6.i\091311V6.b\0913CAL7.D
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Als bottle: 7 Calibration Sample, Level: 7
Dil Factor: 1.00000
Integrator: HP RTE Compound Sublist: 8260.sub
Target Version: 4.04
Processing Host: TARGET02_VM

Concentration Formula: Amt * DF * 5*Uf/Vo

Name	Value	Description
DF	1.000	Dilution Factor
Uf	1.000	unit correction factor
Vo	5.000	Volume of sample purged (mL)

ma 9/17/11

09/15/11

Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	AMOUNTS CAL-AMT (ug/L)	AMOUNTS ON-COL (ug/L)
* 55 Fluorobenzene	96	7.910	7.910	(1.000)	925948	30.0000	
1 Dichlorodifluoromethane	85	2.024	2.024	(0.256)	839102	100.000	108.7
2 Chloromethane	50	2.241	2.241	(0.283)	962951	100.000	104.8
3 Vinyl chloride	62	2.388	2.388	(0.302)	820424	100.000	103.4
4 Bromomethane	94	2.831	2.831	(0.358)	537982	100.000	110.8
5 Chloroethane	64	2.959	2.959	(0.374)	519711	100.000	103.6
6 Trichlorofluoromethane	101	3.451	3.451	(0.436)	1305943	100.000	106.0
10 Ethyl Ether	59	3.884	3.884	(0.491)	655021	100.000	99.40
22 Acetonitrile	41	3.845	3.845	(0.486)	1386814	1000.00	1047
14 Trichlorotrifluoroethane	101	4.317	4.317	(0.546)	685539	100.000	104.8
7 Acrolein	56	3.658	3.658	(0.462)	767082	500.000	512.1
36 Allyl chloride	41	4.672	4.672	(0.591)	1425432	100.000	98.92
13 1,1-Dichloroethene	96	4.239	4.239	(0.536)	601839	100.000	99.78
9 Acetone	43	3.776	3.776	(0.477)	720236	200.000	193.6
15 t-Butyl alcohol	59	4.406	4.406	(0.557)	474194	500.000	488.3
16 Iodomethane	142	4.435	4.435	(0.561)	959065	100.000	99.09

Data File: \\ELABNSH05\TARGET\chem\voa6.i\091311V6.b\0913CAL7.D
Report Date: 15-Sep-2011 09:37

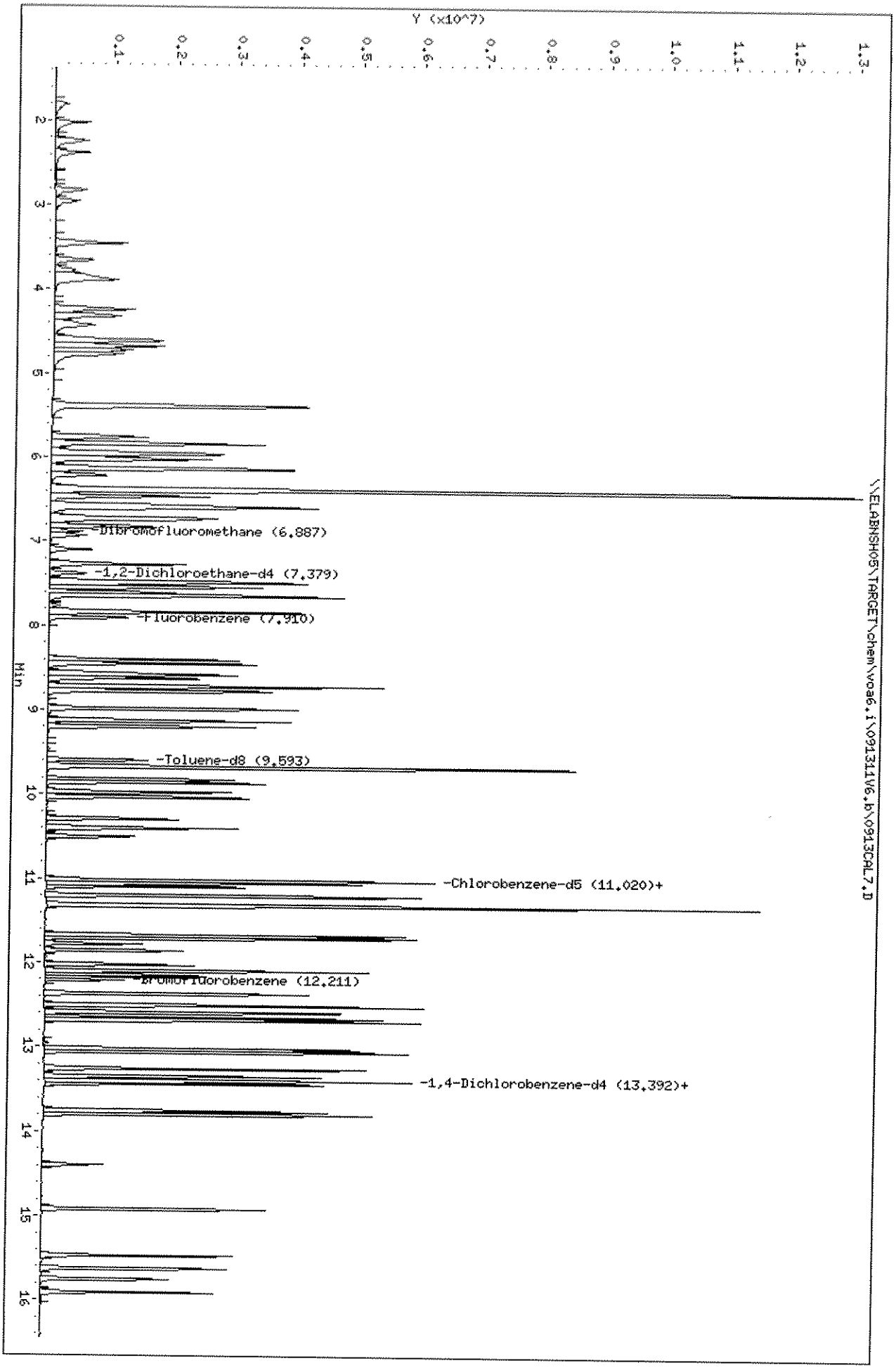
	Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	AMOUNTS CAL-AMT (ug/L)	AMOUNTS ON-COL (ug/L)
	20 Carbon disulfide	76	4.770	4.770	(0.603)	2111903	100.000	102.9
	19 Methylene chloride	84	4.721	4.721	(0.597)	685141	100.000	91.03
	18 Acrylonitrile	53	4.613	4.613	(0.583)	1591065	500.000	522.6
	24 trans-1,2-Dichloroethene	96	5.380	5.380	(0.680)	774899	100.000	100.2
	23 MTBE	73	5.390	5.390	(0.681)	2646504	100.000	101.6
	26 1,1-Dichloroethane	63	5.754	5.754	(0.728)	1760630	100.000	100.9
	56 Propionitrile	54	5.941	5.941	(0.751)	1587937	1000.00	1005
	27 Vinyl acetate	43	5.833	5.833	(0.737)	5737089	200.000	217.1
	69 Chloroprene	53	6.020	6.020	(0.761)	1834375	100.000	104.4
	32 Di-isopropyl ether	45	6.128	6.128	(0.775)	4334540	100.000	102.0
	35 cis-1,2-Dichloroethene	96	6.463	6.463	(0.817)	880086	100.000	100.8
M	47 1,2-Dichloroethene(total)	96				1654985	200.000	200.9
	33 2-Butanone	43	6.217	6.217	(0.786)	1378411	200.000	205.7
	73 Methacrylonitrile	41	6.394	6.394	(0.808)	8772718	1000.00	1019
	72 Hexane	57	5.961	5.961	(0.754)	1083979	100.000	102.3
	40 Bromochloromethane	128	6.738	6.738	(0.852)	449524	100.000	103.6
	84 Isobutyl alcohol	43	6.827	6.827	(0.863)	1103291	2000.00	2072
	42 Tetrahydrofuran	42	6.935	6.935	(0.877)	358216	100.000	98.84
	43 tert-Amyl alcohol	59	7.103	7.103	(0.898)	443564	500.000	523.4
	39 Chloroform	83	6.719	6.719	(0.849)	1605420	100.000	99.67
	17 Methyl acetate	43	4.593	4.593	(0.581)	788980	100.000	97.65
$	41 Dibromofluoromethane	111	6.886	6.886	(0.871)	294531	30.0000	30.63
	44 1,1,1-Trichloroethane	97	7.270	7.270	(0.919)	1342467	100.000	104.4
	38 ETBE	59	6.591	6.591	(0.833)	3651035	100.000	103.0
	49 Cyclohexane	56	7.545	7.545	(0.954)	1601515	100.000	102.4
	51 Carbon tetrachloride	117	7.614	7.614	(0.963)	1162203	100.000	109.2
$	45 1,2-Dichloroethane-d4	102	7.378	7.378	(0.933)	59464	30.0000	29.66
	52 Benzene	78	7.644	7.644	(0.966)	3334523	100.000	102.6
	54 tert-Amyl Methyl Ether	73	7.841	7.841	(0.991)	2985497	100.000	104.5
	46 1,2-Dichloroethane	62	7.477	7.477	(0.945)	1667465	100.000	102.5
	37 2,2-Dichloropropane	77	6.571	6.571	(0.831)	1296042	100.000	98.47
	48 1,1-Dichloropropene	75	7.486	7.486	(0.946)	1262456	100.000	102.7
	58 Trichloroethene	95	8.402	8.402	(1.062)	875081	100.000	103.6
	62 1,4-Dioxane	88	8.608	8.608	(1.088)	192044	2000.00	2182
	59 1,2-Dichloropropane	63	8.451	8.451	(1.068)	1001048	100.000	102.3
	61 Dibromomethane	93	8.559	8.559	(1.082)	629606	100.000	103.5
	50 Methyl methacrylate	41	8.579	8.579	(1.085)	1303165	100.000	103.6
	63 Bromodichloromethane	83	8.628	8.628	(1.091)	1333148	100.000	104.4
	64 tert-Amyl Ethyl Ether	59	8.717	8.717	(1.102)	2915822	100.000	103.7
	68 2-Chloroethyl vinyl ether	63	8.982	8.982	(1.136)	1336229	200.000	215.1(A)
	71 cis-1,3-Dichloropropene	75	9.199	9.199	(1.163)	1517777	100.000	104.2
	70 4-Methyl-2-pentanone	43	9.120	9.120	(1.153)	2723508	200.000	209.5
$	75 Toluene-d8	98	9.593	9.593	(0.871)	843053	30.0000	30.01
	77 Toluene	92	9.671	9.671	(0.878)	1908928	100.000	102.3
	76 trans-1,3-Dichloropropene	75	9.662	9.662	(0.877)	1585044	100.000	104.2
	79 Ethyl methacrylate	69	9.858	9.858	(0.895)	1365755	100.000	102.7
	78 1,1,2-Trichloroethane	83	9.819	9.819	(0.891)	661527	100.000	101.5

Data File: \\ELABNSH05\TARGET\chem\voa6.i\091311V6.b\0913CAL7.D
Report Date: 15-Sep-2011 09:37

Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	AMOUNTS CAL-AMT (ug/L)	AMOUNTS ON-COL (ug/L)
83 Tetrachloroethene	166	10.400	10.400	(0.944)	714105	100.000	103.8
80 2-Hexanone	43	9.967	9.967	(0.904)	1935289	200.000	207.4
82 Dibromochloromethane	129	10.291	10.291	(0.934)	953012	100.000	110.4
85 1,2-Dibromoethane	107	10.498	10.498	(0.953)	881312	100.000	105.3
65 Methyl cyclohexane	83	8.776	8.776	(1.109)	1080795	100.000	103.6
* 86 Chlorobenzene-d5	82	11.020	11.020	(1.000)	427288	30.0000	
88 Chlorobenzene	112	11.049	11.049	(1.003)	2199714	100.000	103.9
89 1,1,1,2-Tetrachloroethane	131	11.098	11.098	(1.007)	793155	100.000	105.9
87 1-Chlorohexane	91	11.020	11.020	(1.000)	1068728	100.000	94.91
90 Ethylbenzene	91	11.197	11.197	(1.016)	3835601	100.000	104.8
91 m,p-Xylene	91	11.315	11.315	(1.027)	5992545	200.000	212.0(A)
M 127 Xylene(total)	91				9074373	300.000	315.3
93 o-Xylene	91	11.699	11.699	(1.062)	3081828	100.000	103.3
92 Styrene	104	11.669	11.669	(1.059)	2465099	100.000	105.5
95 Bromoform	173	11.778	11.778	(1.069)	589081	100.000	123.0
125 cis-1,4-Dichloro-2-butene	75	11.856	11.856	(0.884)	388938	100.000	110.8
97 Isopropylbenzene	105	12.093	12.093	(1.097)	3186500	100.000	104.6
$ 99 Bromofluorobenzene	95	12.211	12.211	(1.108)	386478	30.0000	30.89
96 1,1,2,2-Tetrachloroethane	83	12.024	12.024	(0.897)	1064678	100.000	103.7
81 1,3-Dichloropropane	76	10.036	10.036	(0.911)	1419209	100.000	104.0
98 1,2,3-Trichloropropane	110	12.152	12.152	(1.103)	305385	100.000	104.7
124 trans-1,4-Dichloro-2-butene	53	12.171	12.171	(0.908)	498804	100.000	104.0
101 n-Propylbenzene	91	12.506	12.506	(0.932)	4106260	100.000	103.5
105 1,3,5-Trimethylbenzene	105	12.683	12.683	(0.946)	2839051	100.000	105.7
108 1,2,4-Trimethylbenzene	105	13.057	13.057	(0.974)	2878860	100.000	103.6
109 sec-Butylbenzene	105	13.254	13.254	(0.988)	3312597	100.000	107.4
107 tert-Butylbenzene	119	13.027	13.027	(0.971)	2553287	100.000	106.1
110 1,3-Dichlorobenzene	146	13.342	13.342	(0.995)	1521410	100.000	104.9
* 112 1,4-Dichlorobenzene-d4	152	13.411	13.411	(1.000)	355801	30.0000	
113 1,4-Dichlorobenzene	146	13.441	13.441	(1.002)	1528769	100.000	103.8
115 n-Butylbenzene	91	13.795	13.795	(1.029)	2466470	100.000	105.8
114 1,2-Dichlorobenzene	146	13.756	13.756	(1.026)	1474983	100.000	106.7
118 1,2-Dibromo-3-chloropropane	157	14.396	14.396	(1.073)	188001	100.000	110.6
119 1,3,5-Trichlorobenzene	180	14.917	14.917	(1.112)	906390	100.000	106.5
100 Bromobenzene	156	12.368	12.368	(0.922)	834047	100.000	103.0
102 2-Chlorotoluene	91	12.594	12.594	(0.939)	2599587	100.000	103.2
103 4-Chlorotoluene	91	12.653	12.653	(0.943)	3016401	100.000	103.8
120 1,2,4-Trichlorobenzene	180	15.478	15.478	(1.154)	820495	100.000	104.4
121 Naphthalene	128	15.626	15.626	(1.165)	1999980	100.000	106.2(A)
111 p-Isopropyltoluene	119	13.392	13.392	(0.999)	2719440	100.000	105.2
122 Hexachlorobutadiene	225	15.754	15.754	(1.175)	378138	100.000	106.1
123 1,2,3-Trichlorobenzene	180	15.911	15.911	(1.186)	708516	100.000	106.4

QC Flag Legend

A - Target compound detected but, quantitated amount exceeded maximum amount.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Instrument: voa6.i
Operator: ADM
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Min
\\ELABNSHO5\TARGET\chem\voa6.i\091311V6.b\0913CAL7.D
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-1,2-Dichloroethane-d4 (7.379)
-Fluorobenzene (7.910)
-Toluene-d8 (9.593)
-Chlorobenzene-d5 (11.020)+
-Bromofluorobenzene (12.211)
-1,4-Dichlorobenzene-d4 (13.392)+

Data File: \\ELABNSH05\TARGET\chem\voa6.i\091311V6.b\0913CAL8.D
Report Date: 15-Sep-2011 09:37

Laboratory Name

Data file : \\ELABNSH05\TARGET\chem\voa6.i\091311V6.b\0913CAL8.D
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Als bottle: 8 Calibration Sample, Level: 8
Dil Factor: 1.00000
Integrator: HP RTE Compound Sublist: 8260.sub
Target Version: 4.04
Processing Host: TARGET02_VM

Concentration Formula: Amt * DF * 5*Uf/Vo

Name	Value	Description
DF	1.000	Dilution Factor
Uf	1.000	unit correction factor
Vo	5.000	Volume of sample purged (mL)

W9/17/11

9/19/11

Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	AMOUNTS CAL-AMT (ug/L)	AMOUNTS ON-COL (ug/L)
* 55 Fluorobenzene	96	7.902	7.902	(1.000)	955732	30.0000	
1 Dichlorodifluoromethane	85	2.026	2.026	(0.256)	1316142	150.000	165.2
2 Chloromethane	50	2.242	2.242	(0.284)	1483241	150.000	156.3
3 Vinyl chloride	62	2.380	2.380	(0.301)	1264190	150.000	154.4
4 Bromomethane	94	2.823	2.823	(0.357)	864920	150.000	172.6
5 Chloroethane	64	2.961	2.961	(0.375)	787340	150.000	152.1
6 Trichlorofluoromethane	101	3.453	3.453	(0.437)	1986038	150.000	156.3
10 Ethyl Ether	59	3.886	3.886	(0.492)	1040366	150.000	153.0
22 Acetonitrile	41	3.847	3.847	(0.487)	2146200	1500.00	1570
14 Trichlorotrifluoroethane	101	4.309	4.309	(0.545)	1062244	150.000	157.4
7 Acrolein	56	3.660	3.660	(0.463)	1205661	750.000	779.9
36 Allyl chloride	41	4.673	4.673	(0.591)	2228799	150.000	149.8
13 1,1-Dichloroethene	96	4.240	4.240	(0.537)	946850	150.000	152.1(Q)
9 Acetone	43	3.778	3.778	(0.478)	1094226	300.000	284.9
15 t-Butyl alcohol	59	4.408	4.408	(0.558)	740133	750.000	738.4
16 Iodomethane	142	4.437	4.437	(0.562)	1500370	150.000	149.3

Data File: \\ELABNSH05\TARGET\chem\voa6.i\091311V6.b\0913CAL8.D
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	Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	AMOUNTS CAL-AMT (ug/L)	AMOUNTS ON-COL (ug/L)
	20 Carbon disulfide	76	4.772	4.772	(0.604)	3334342	150.000	157.4
	19 Methylene chloride	84	4.723	4.723	(0.598)	1076482	150.000	138.6
	18 Acrylonitrile	53	4.614	4.614	(0.584)	2489917	750.000	792.4(Q)
	24 trans-1,2-Dichloroethene	96	5.382	5.382	(0.681)	1216161	150.000	152.3
	23 MTBE	73	5.392	5.392	(0.682)	4122839	150.000	153.4
	26 1,1-Dichloroethane	63	5.756	5.756	(0.728)	2777021	150.000	154.2
	56 Propionitrile	54	5.943	5.943	(0.752)	2434202	1500.00	1492
	27 Vinyl acetate	43	5.835	5.835	(0.738)	8822570	300.000	323.4
	69 Chloroprene	53	6.022	6.022	(0.762)	2782882	150.000	153.4
	32 Di-isopropyl ether	45	6.130	6.130	(0.776)	6728048	150.000	153.4
	35 cis-1,2-Dichloroethene	96	6.465	6.465	(0.818)	1381897	150.000	153.3(Q)
M	47 1,2-Dichloroethene(total)	96				2598058	300.000	305.6
	33 2-Butanone	43	6.219	6.219	(0.787)	2137117	300.000	309.0
	73 Methacrylonitrile	41	6.396	6.396	(0.809)	13039967	1500.00	1467
	72 Hexane	57	5.963	5.963	(0.755)	1659143	150.000	151.7
	40 Bromochloromethane	128	6.740	6.740	(0.853)	681530	150.000	152.2
	84 Isobutyl alcohol	43	6.829	6.829	(0.864)	1708699	3000.00	3109
	42 Tetrahydrofuran	42	6.937	6.937	(0.878)	542428	150.000	145.0
	43 tert-Amyl alcohol	59	7.095	7.095	(0.898)	696740	750.000	796.6
	39 Chloroform	83	6.721	6.721	(0.851)	2500861	150.000	150.4
	17 Methyl acetate	43	4.595	4.595	(0.582)	1234887	150.000	148.1
$	41 Dibromofluoromethane	111	6.888	6.888	(0.872)	301659	30.0000	30.39
	44 1,1,1-Trichloroethane	97	7.272	7.272	(0.920)	2072198	150.000	156.1
	38 ETBE	59	6.593	6.593	(0.834)	5606775	150.000	153.3
	49 Cyclohexane	56	7.537	7.537	(0.954)	2498525	150.000	154.8
	51 Carbon tetrachloride	117	7.606	7.606	(0.963)	1788897	150.000	162.9
$	45 1,2-Dichloroethane-d4	102	7.380	7.380	(0.934)	62763	30.0000	30.33
	52 Benzene	78	7.646	7.646	(0.968)	5208168	150.000	155.3
	54 tert-Amyl Methyl Ether	73	7.833	7.833	(0.991)	4552893	150.000	154.4
	46 1,2-Dichloroethane	62	7.478	7.478	(0.946)	2530562	150.000	150.7
	37 2,2-Dichloropropane	77	6.573	6.573	(0.832)	1985748	150.000	146.2
	48 1,1-Dichloropropene	75	7.488	7.488	(0.948)	1938592	150.000	152.8(Q)
	58 Trichloroethene	95	8.404	8.404	(1.064)	1352299	150.000	155.0
	62 1,4-Dioxane	88	8.610	8.610	(1.090)	297780	3000.00	3278(Q)
	59 1,2-Dichloropropane	63	8.453	8.453	(1.070)	1548228	150.000	153.4
	61 Dibromomethane	93	8.561	8.561	(1.083)	960630	150.000	153.0
	50 Methyl methacrylate	41	8.581	8.581	(1.086)	1953208	150.000	150.4
	63 Bromodichloromethane	83	8.620	8.620	(1.091)	2064761	150.000	156.7
	64 tert-Amyl Ethyl Ether	59	8.718	8.718	(1.103)	4420770	150.000	152.3
	68 2-Chloroethyl vinyl ether	63	8.984	8.984	(1.137)	2047413	300.000	319.2(A)
	71 cis-1,3-Dichloropropene	75	9.191	9.191	(1.163)	2334234	150.000	155.2
	70 4-Methyl-2-pentanone	43	9.122	9.122	(1.154)	4109304	300.000	306.3
$	75 Toluene-d8	98	9.594	9.594	(0.871)	870179	30.0000	30.00
	77 Toluene	92	9.673	9.673	(0.878)	2929775	150.000	152.0
	76 trans-1,3-Dichloropropene	75	9.663	9.663	(0.878)	2432157	150.000	154.8
	79 Ethyl methacrylate	69	9.860	9.860	(0.895)	2140616	150.000	155.9
	78 1,1,2-Trichloroethane	83	9.821	9.821	(0.892)	1019613	150.000	151.6

Data File: \\ELABNSH05\TARGET\chem\voa6.i\091311V6.b\0913CAL8.D
Report Date: 15-Sep-2011 09:37

Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	AMOUNTS CAL-AMT (ug/L)	AMOUNTS ON-COL (ug/L)
83 Tetrachloroethene	166	10.401	10.401	(0.945)	1128540	150.000	158.9
80 2-Hexanone	43	9.968	9.968	(0.905)	2980511	300.000	309.5
82 Dibromochloromethane	129	10.293	10.293	(0.935)	1490394	150.000	167.3
85 1,2-Dibromoethane	107	10.500	10.500	(0.954)	1360196	150.000	157.4
65 Methyl cyclohexane	83	8.778	8.778	(1.111)	1681153	150.000	156.1
* 86 Chlorobenzene-d5	82	11.012	11.012	(1.000)	441113	30.0000	
88 Chlorobenzene	112	11.051	11.051	(1.004)	3425978	150.000	156.8
89 1,1,1,2-Tetrachloroethane	131	11.100	11.100	(1.008)	1244499	150.000	161.0
87 1-Chlorohexane	91	11.022	11.022	(1.001)	1667106	150.000	143.4(A)
90 Ethylbenzene	91	11.199	11.199	(1.017)	6033093	150.000	159.6(A)
91 m,p-Xylene	91	11.317	11.317	(1.028)	9315568	300.000	319.3(A)
M 127 Xylene(total)	91				14103443	450.000	474.8
93 o-Xylene	91	11.701	11.701	(1.063)	4787875	150.000	155.5(A)
92 Styrene	104	11.671	11.671	(1.060)	3853495	150.000	159.8
95 Bromoform	173	11.779	11.779	(1.070)	934655	150.000	189.1
125 cis-1,4-Dichloro-2-butene	75	11.858	11.858	(0.884)	596342	150.000	159.0
97 Isopropylbenzene	105	12.094	12.094	(1.098)	5064290	150.000	161.0(A)
$ 99 Bromofluorobenzene	95	12.203	12.203	(1.108)	400907	30.0000	31.04
96 1,1,2,2-Tetrachloroethane	83	12.025	12.025	(0.897)	1654536	150.000	150.7
81 1,3-Dichloropropane	76	10.037	10.037	(0.912)	2176963	150.000	154.6
98 1,2,3-Trichloropropane	110	12.153	12.153	(1.104)	467229	150.000	155.2
124 trans-1,4-Dichloro-2-butene	53	12.173	12.173	(0.908)	757539	150.000	147.8
101 n-Propylbenzene	91	12.508	12.508	(0.932)	6527294	150.000	153.9
105 1,3,5-Trimethylbenzene	105	12.685	12.685	(0.946)	4408289	150.000	153.5
108 1,2,4-Trimethylbenzene	105	13.059	13.059	(0.974)	4511838	150.000	152.0
109 sec-Butylbenzene	105	13.256	13.256	(0.988)	5150772	150.000	156.2
107 tert-Butylbenzene	119	13.029	13.029	(0.971)	3944379	150.000	153.4
110 1,3-Dichlorobenzene	146	13.344	13.344	(0.995)	2390201	150.000	154.2
* 112 1,4-Dichlorobenzene-d4	152	13.413	13.413	(1.000)	380254	30.0000	(Q)
113 1,4-Dichlorobenzene	146	13.443	13.443	(1.002)	2390650	150.000	151.8
115 n-Butylbenzene	91	13.797	13.797	(1.029)	3774127	150.000	151.4
114 1,2-Dichlorobenzene	146	13.758	13.758	(1.026)	2259327	150.000	152.9
118 1,2-Dibromo-3-chloropropane	157	14.397	14.397	(1.073)	292417	150.000	160.9
119 1,3,5-Trichlorobenzene	180	14.919	14.919	(1.112)	1392985	150.000	153.1
100 Bromobenzene	156	12.370	12.370	(0.922)	1314678	150.000	151.9
102 2-Chlorotoluene	91	12.586	12.586	(0.938)	4075589	150.000	151.4
103 4-Chlorotoluene	91	12.655	12.655	(0.944)	4724396	150.000	152.2
120 1,2,4-Trichlorobenzene	180	15.470	15.470	(1.153)	1275324	150.000	151.8
121 Naphthalene	128	15.628	15.628	(1.165)	3105499	150.000	154.4(A)
111 p-Isopropyltoluene	119	13.393	13.393	(0.999)	4313914	150.000	156.1
122 Hexachlorobutadiene	225	15.756	15.756	(1.175)	599382	150.000	157.4
123 1,2,3-Trichlorobenzene	180	15.913	15.913	(1.186)	1092078	150.000	153.4

QC Flag Legend

A - Target compound detected but, quantitated amount exceeded maximum amount.

Data File: \\ELABNSH05\TARGET\chem\voa6.i\091311V6.b\0913CAL8.D
Report Date: 15-Sep-2011 09:37

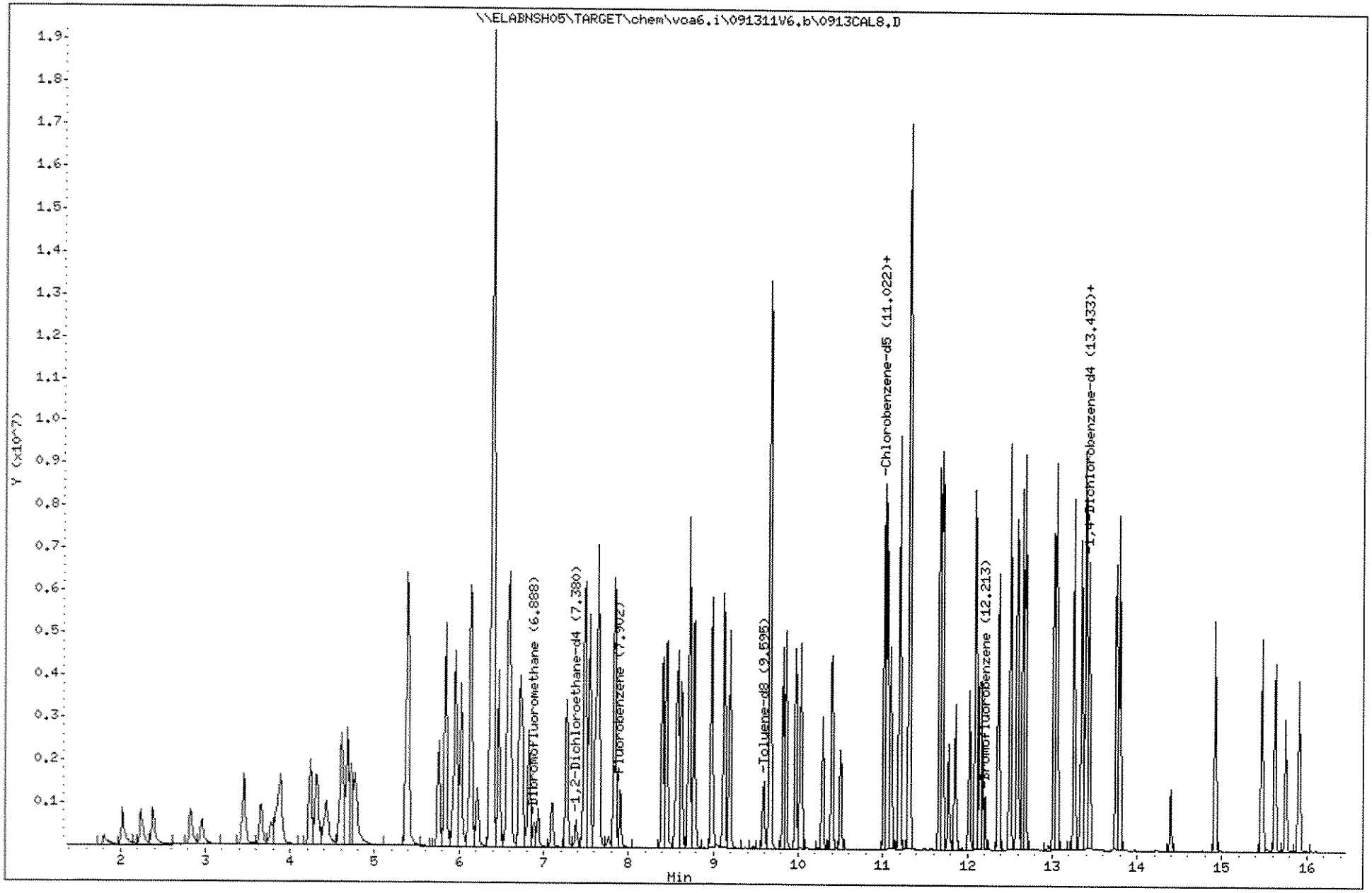
QC Flag Legend

Q - Qualifier signal failed the ratio test.

Data File: \\ELABNSH05\TARGET\chem\voa6.i\091311V6.b\0913CAL8.D
Date : 13-SEP-2011 18:04
Client ID: SEQ-CAL8
Sample Info: SEQ-CAL8;;;;;
Purge Volume: 5.0
Column phase: RTX-VRX

Instrument: voa6.i

Operator: ADM
Column diameter: 0.25



Data File: \\ELABNSH05\TARGET\chem\voa6.i\091311V6.b\0913CAL9.D
Report Date: 15-Sep-2011 09:37

Laboratory Name

Data file : \\ELABNSH05\TARGET\chem\voa6.i\091311V6.b\0913CAL9.D
Lab Smp Id: SEQ-CAL9 Client Smp ID: SEQ-CAL9
Inj Date : 13-SEP-2011 18:30 MS Autotune Date: 13-SEP-2011 09:32
Operator : ADM Inst ID: voa6.i
Smp Info : SEQ-CAL9;;;;;
Misc Info : ;;;;;8260.sub;
Comment :
Method : \\ELABNSH05\TARGET\chem\voa6.i\091311V6.b\VW6SUR.m
Meth Date : 15-Sep-2011 09:37 amonteiro Quant Type: ISTD
Cal Date : 13-SEP-2011 18:30 Cal File: 0913CAL9.D
Als bottle: 9 Calibration Sample, Level: 9
Dil Factor: 1.00000
Integrator: HP RTE Compound Sublist: 8260.sub
Target Version: 4.04
Processing Host: TARGET02_VM

Concentration Formula: Amt * DF * 5*Uf/Vo

Name	Value	Description
DF	1.000	Dilution Factor
Uf	1.000	unit correction factor
Vo	5.000	Volume of sample purged (mL)

09/15/11 mg 11/7/11

Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	AMOUNTS CAL-AMT (ug/L)	ON-COL (ug/L)
* 55 Fluorobenzene	96	7.904	7.904	(1.000)	993357	30.0000	
1 Dichlorodifluoromethane	85	2.028	2.028	(0.257)	1827178	200.000	220.6(A)
2 Chloromethane	50	2.245	2.245	(0.284)	2133439	200.000	216.3(A)
3 Vinyl chloride	62	2.383	2.383	(0.301)	1770768	200.000	208.1(A)
4 Bromomethane	94	2.825	2.825	(0.358)	1234615	200.000	237.0(A)
5 Chloroethane	64	2.963	2.963	(0.375)	1096491	200.000	203.7(A)
6 Trichlorofluoromethane	101	3.455	3.455	(0.437)	2706267	200.000	204.9(A)
10 Ethyl Ether	59	3.888	3.888	(0.492)	1460603	200.000	206.6
22 Acetonitrile	41	3.849	3.849	(0.487)	3026312	2000.00	2130(A)
14 Trichlorotrifluoroethane	101	4.312	4.312	(0.546)	1506382	200.000	214.7(A)
7 Acrolein	56	3.652	3.652	(0.462)	1701837	1000.00	1059(A)
36 Allyl chloride	41	4.676	4.676	(0.592)	3030039	200.000	196.0
13 1,1-Dichloroethene	96	4.233	4.233	(0.536)	1349373	200.000	208.5(AQ)
9 Acetone	43	3.780	3.780	(0.478)	1518860	400.000	380.5
15 t-Butyl alcohol	59	4.410	4.410	(0.558)	1031087	1000.00	989.8
16 Iodomethane	142	4.430	4.430	(0.560)	2107446	200.000	201.2(A)

Data File: \\ELABNSH05\TARGET\chem\voa6.i\091311V6.b\0913CAL9.D
Report Date: 15-Sep-2011 09:37

	Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	AMOUNTS CAL-AMT (ug/L)	AMOUNTS ON-COL (ug/L)
	20 Carbon disulfide	76	4.764	4.764	(0.603)	4708629	200.000	213.9(A)
	19 Methylene chloride	84	4.725	4.725	(0.598)	1530607	200.000	189.6
	18 Acrylonitrile	53	4.617	4.617	(0.584)	3537845	1000.00	1083(AQ)
	24 trans-1,2-Dichloroethene	96	5.384	5.384	(0.681)	1747234	200.000	210.5(A)
	23 MTBE	73	5.394	5.394	(0.682)	5855029	200.000	209.6(A)
	26 1,1-Dichloroethane	63	5.758	5.758	(0.729)	3944208	200.000	210.7(A)
	56 Propionitrile	54	5.945	5.945	(0.752)	3404853	2000.00	2008(A)
	27 Vinyl acetate	43	5.837	5.837	(0.739)	12723998	400.000	448.8(A)
	69 Chloroprene	53	6.024	6.024	(0.762)	3908917	200.000	207.3(A)
	32 Di-isopropyl ether	45	6.132	6.132	(0.776)	9476854	200.000	207.8(A)
	35 cis-1,2-Dichloroethene	96	6.477	6.477	(0.819)	1944606	200.000	207.5(AQ)
M	47 1,2-Dichloroethene(total)	96				3691840	400.000	418.1
	33 2-Butanone	43	6.221	6.221	(0.787)	2974173	400.000	413.7(A)
	73 Methacrylonitrile	41	6.408	6.408	(0.811)	17584480	2000.00	1904
	72 Hexane	57	5.965	5.965	(0.755)	2330674	200.000	205.1(A)
	40 Bromochloromethane	128	6.743	6.743	(0.853)	934925	200.000	200.9(A)
	84 Isobutyl alcohol	43	6.831	6.831	(0.864)	2345766	4000.00	4107(A)
	42 Tetrahydrofuran	42	6.939	6.939	(0.878)	760726	200.000	195.7
	43 tert-Amyl alcohol	59	7.097	7.097	(0.898)	960204	1000.00	1056(A)
	39 Chloroform	83	6.723	6.723	(0.851)	3470376	200.000	200.8(A)
	17 Methyl acetate	43	4.597	4.597	(0.582)	1705398	200.000	196.8
$	41 Dibromofluoromethane	111	6.890	6.890	(0.872)	314569	30.0000	30.49
	44 1,1,1-Trichloroethane	97	7.274	7.274	(0.920)	2841831	200.000	206.0(A)
	38 ETBE	59	6.595	6.595	(0.834)	7839568	200.000	206.2
	49 Cyclohexane	56	7.540	7.540	(0.954)	3447718	200.000	205.6(A)
	51 Carbon tetrachloride	117	7.609	7.609	(0.963)	2478856	200.000	217.2(A)
$	45 1,2-Dichloroethane-d4	102	7.382	7.382	(0.934)	66059	30.0000	30.71(Q)
	52 Benzene	78	7.648	7.648	(0.968)	7326315	200.000	210.2(A)
	54 tert-Amyl Methyl Ether	73	7.835	7.835	(0.991)	6412219	200.000	209.3(A)
	46 1,2-Dichloroethane	62	7.481	7.481	(0.946)	3464135	200.000	198.5
	37 2,2-Dichloropropane	77	6.575	6.575	(0.832)	2737321	200.000	193.9
	48 1,1-Dichloropropene	75	7.491	7.491	(0.948)	2682302	200.000	203.5(AQ)
	58 Trichloroethene	95	8.396	8.396	(1.062)	1893849	200.000	208.9(A)
	62 1,4-Dioxane	88	8.613	8.613	(1.090)	410726	4000.00	4350(AQ)
	59 1,2-Dichloropropane	63	8.445	8.445	(1.068)	2143361	200.000	204.3(A)
	61 Dibromomethane	93	8.563	8.563	(1.083)	1345568	200.000	206.2(A)
	50 Methyl methacrylate	41	8.583	8.583	(1.086)	2698197	200.000	199.9
	63 Bromodichloromethane	83	8.622	8.622	(1.091)	2867298	200.000	209.4(A)
	64 tert-Amyl Ethyl Ether	59	8.721	8.721	(1.103)	6288830	200.000	208.4(A)
	68 2-Chloroethyl vinyl ether	63	8.986	8.986	(1.137)	2844958	400.000	426.8(A)
	71 cis-1,3-Dichloropropene	75	9.193	9.193	(1.163)	3257295	200.000	208.4(A)
	70 4-Methyl-2-pentanone	43	9.124	9.124	(1.154)	5680540	400.000	407.3(A)
$	75 Toluene-d8	98	9.597	9.597	(0.871)	920716	30.0000	31.30
	77 Toluene	92	9.666	9.666	(0.878)	4066768	200.000	208.1(A)
	76 trans-1,3-Dichloropropene	75	9.666	9.666	(0.878)	3375927	200.000	211.9(A)
	79 Ethyl methacrylate	69	9.862	9.862	(0.895)	3005734	200.000	215.9(A)
	78 1,1,2-Trichloroethane	83	9.823	9.823	(0.892)	1408709	200.000	206.5(A)

Data File: \\ELABNSH05\TARGET\chem\voa6.i\091311V6.b\0913CAL9.D
Report Date: 15-Sep-2011 09:37

Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	AMOUNTS CAL-AMT (ug/L)	AMOUNTS ON-COL (ug/L)
83 Tetrachloroethene	166	10.404	10.404	(0.945)	1580259	200.000	219.4(A)
80 2-Hexanone	43	9.971	9.971	(0.905)	4068524	400.000	416.5(A)
82 Dibromochloromethane	129	10.295	10.295	(0.935)	2100753	200.000	232.4(A)
85 1,2-Dibromoethane	107	10.502	10.502	(0.954)	1875509	200.000	214.0(A)
65 Methyl cyclohexane	83	8.780	8.780	(1.111)	2381201	200.000	212.7(A)
* 86 Chlorobenzene-d5	82	11.014	11.014	(1.000)	447386	30.0000	
88 Chlorobenzene	112	11.053	11.053	(1.004)	4795429	200.000	216.4(A)
89 1,1,1,2-Tetrachloroethane	131	11.093	11.093	(1.007)	1727698	200.000	220.4(A)
87 1-Chlorohexane	91	11.024	11.024	(1.001)	2309795	200.000	195.9(A)
90 Ethylbenzene	91	11.201	11.201	(1.017)	8399391	200.000	219.2(A)
91 m,p-Xylene	91	11.319	11.319	(1.028)	11527839	400.000	389.6(A)
M 127 Xylene(total)	91				18128210	600.000	600.9
93 o-Xylene	91	11.703	11.703	(1.063)	6600371	200.000	211.3(A)
92 Styrene	104	11.673	11.673	(1.060)	5311806	200.000	217.2(A)
95 Bromoform	173	11.782	11.782	(1.070)	1312673	200.000	261.8(A)
125 cis-1,4-Dichloro-2-butene	75	11.860	11.860	(0.885)	822324	200.000	217.1(A)
97 Isopropylbenzene	105	12.097	12.097	(1.098)	6953109	200.000	217.9(A)
$ 99 Bromofluorobenzene	95	12.205	12.205	(1.108)	411154	30.0000	31.38
96 1,1,2,2-Tetrachloroethane	83	12.028	12.028	(0.897)	2276433	200.000	205.4(A)
81 1,3-Dichloropropane	76	10.030	10.030	(0.911)	3033966	200.000	212.4(A)
98 1,2,3-Trichloropropane	110	12.146	12.146	(1.103)	637549	200.000	208.8(A)
124 trans-1,4-Dichloro-2-butene	53	12.175	12.175	(0.908)	1015673	200.000	196.3
101 n-Propylbenzene	91	12.510	12.510	(0.933)	8916039	200.000	208.2(A)
105 1,3,5-Trimethylbenzene	105	12.687	12.687	(0.946)	6116303	200.000	211.0(A)
108 1,2,4-Trimethylbenzene	105	13.061	13.061	(0.974)	6189029	200.000	206.4(A)
109 sec-Butylbenzene	105	13.258	13.258	(0.989)	7059374	200.000	212.0(A)
107 tert-Butylbenzene	119	13.022	13.022	(0.971)	5466236	200.000	210.5(A)
110 1,3-Dichlorobenzene	146	13.347	13.347	(0.996)	3302867	200.000	211.0(A)
* 112 1,4-Dichlorobenzene-d4	152	13.406	13.406	(1.000)	383956	30.0000	(Q)
113 1,4-Dichlorobenzene	146	13.445	13.445	(1.003)	3316157	200.000	208.6(A)
115 n-Butylbenzene	91	13.799	13.799	(1.029)	5201674	200.000	206.7(A)
114 1,2-Dichlorobenzene	146	13.760	13.760	(1.026)	3171762	200.000	212.5(A)
118 1,2-Dibromo-3-chloropropane	157	14.400	14.400	(1.074)	404783	200.000	220.6(A)
119 1,3,5-Trichlorobenzene	180	14.921	14.921	(1.113)	1947057	200.000	212.0(A)
100 Bromobenzene	156	12.372	12.372	(0.923)	1844438	200.000	211.1(A)
102 2-Chlorotoluene	91	12.589	12.589	(0.939)	5587977	200.000	205.6(A)
103 4-Chlorotoluene	91	12.658	12.658	(0.944)	6499423	200.000	207.3(A)
120 1,2,4-Trichlorobenzene	180	15.472	15.472	(1.154)	1781656	200.000	210.1(A)
121 Naphthalene	128	15.630	15.630	(1.166)	4413536	200.000	217.3(A)
111 p-Isopropyltoluene	119	13.396	13.396	(0.999)	5905054	200.000	211.6(A)
122 Hexachlorobutadiene	225	15.758	15.758	(1.175)	837370	200.000	217.8(A)
123 1,2,3-Trichlorobenzene	180	15.915	15.915	(1.187)	1543883	200.000	214.8(A)

QC Flag Legend

A - Target compound detected but, quantitated amount exceeded maximum amount.

Data File: \\ELABNSH05\TARGET\chem\voa6.i\091311V6.b\0913CAL9.D
Report Date: 15-Sep-2011 09:37

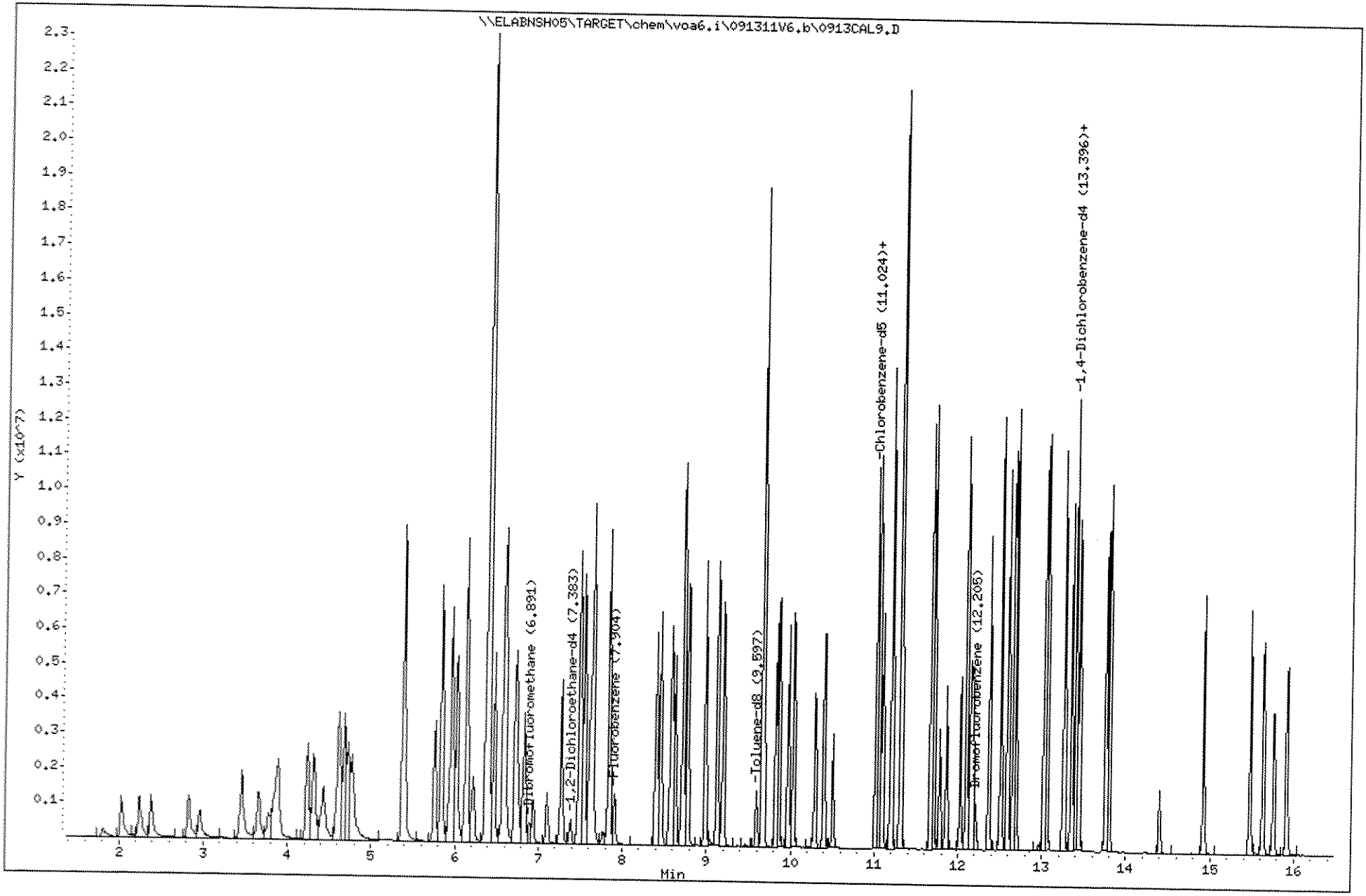
QC Flag Legend

Q - Qualifier signal failed the ratio test.

Data File: \\ELABNSH05\TARGET\chem\voa6.i\091311V6.b\0913CAL9.D
Date : 13-SEP-2011 18:30
Client ID: SEQ-CAL9
Sample Info: SEQ-CAL9;;;;;
Purge Volume: 5.0
Column phase: RTX-VRX

Instrument: voa6.i

Operator: ADM
Column diameter: 0.25



Data File: \\ELABNSH05\TARGET\chem\voa6.i\091311V6.b\0913ICV2.D
Report Date: 15-Sep-2011 13:07

Laboratory Name

Data file : \\ELABNSH05\TARGET\chem\voa6.i\091311V6.b\0913ICV2.D
Lab Smp Id: SEQ-ICV2 Client Smp ID: SEQ-ICV2
Inj Date : 13-SEP-2011 19:51 MS Autotune Date: 13-SEP-2011 09:32
Operator : ADM Inst ID: voa6.i
Smp Info : SEQ-ICV2;;;;;
Misc Info : ;3;ICV;;;8260.sub;
Comment :
Method : \\ELABNSH05\TARGET\chem\voa6.i\091311V6.b\VW6SUR.m
Meth Date : 15-Sep-2011 09:37 amonteiro Quant Type: ISTD
Cal Date : 13-SEP-2011 18:30 Cal File: 0913CAL9.D
Als bottle: 12 QC Sample: ICV
Dil Factor: 1.00000
Integrator: HP RTE Compound Sublist: 8260.sub
Target Version: 4.04
Processing Host: TARGET02_VM

Concentration Formula: Amt * DF * 5*Uf/Vo

Name	Value	Description
DF	1.000	Dilution Factor
Uf	1.000	unit correction factor
Vo	5.000	Volume of sample purged (mL)

9/15/11 ma 9/14

Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS ON-COLUMN (ug/L)	FINAL (ug/L)
* 55 Fluorobenzene	96	7.903	7.904	(1.000)	1004767	30.0000	
1 Dichlorodifluoromethane	85	2.027	2.028	(0.257)	710380	84.8099	84.81(Q)
2 Chloromethane	50	2.244	2.245	(0.284)	908832	91.1140	91.11
3 Vinyl chloride	62	2.382	2.383	(0.301)	821741	95.4777	95.48
4 Bromomethane	94	2.825	2.825	(0.357)	565899	107.392	107.4
5 Chloroethane	64	2.962	2.963	(0.375)	547819	100.639	100.6
6 Trichlorofluoromethane	101	3.455	3.455	(0.437)	1297998	97.1429	97.14
10 Ethyl Ether	59	3.888	3.888	(0.492)	725806	101.499	101.5
22 Acetonitrile	41	3.848	3.849	(0.487)	1481188	1030.53	1030
14 Trichlorotrifluoroethane	101	4.311	4.312	(0.545)	649160	91.4892	91.49
36 Allyl chloride	41	4.675	4.676	(0.592)	1605886	102.696	102.7
13 1,1-Dichloroethene	96	4.242	4.233	(0.537)	613997	93.8073	93.81(Q)
9 Acetone	43	3.779	3.780	(0.478)	963629	238.655	238.6
15 t-Butyl alcohol	59	4.409	4.410	(0.558)	493001	467.879	467.9
16 Iodomethane	142	4.439	4.430	(0.562)	1064993	101.363	101.4
20 Carbon disulfide	76	4.773	4.764	(0.604)	1926071	86.5041	86.50

Data File: \\ELABNSH05\TARGET\chem\voa6.i\091311V6.b\0913ICV2.D
Report Date: 15-Sep-2011 13:07

	Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS ON-COLUMN (ug/L)	FINAL (ug/L)
	19 Methylene chloride	84	4.724	4.725	(0.598)	751024	91.9583	91.96
	24 trans-1,2-Dichloroethene	96	5.384	5.384	(0.681)	844752	100.630	100.6
	23 MTBE	73	5.393	5.394	(0.682)	2810774	99.4856	99.48
	26 1,1-Dichloroethane	63	5.758	5.758	(0.729)	1942460	102.604	102.6
	56 Propionitrile	54	5.945	5.945	(0.752)	1744379	1017.13	1017
	27 Vinyl acetate	43	5.836	5.837	(0.738)	6038265	210.571	210.6
	69 Chloroprene	53	6.023	6.024	(0.762)	1903226	99.7894	99.79
	32 Di-isopropyl ether	45	6.132	6.132	(0.776)	4709642	102.121	102.1
	35 cis-1,2-Dichloroethene	96	6.466	6.477	(0.818)	970863	102.441	102.4(Q)
M	47 1,2-Dichloroethene(total)	96				1815615	203.071	203.1
	33 2-Butanone	43	6.210	6.221	(0.786)	1576119	216.764	216.8
	73 Methacrylonitrile	41	6.387	6.408	(0.808)	9297844	995.105	995.1
	72 Hexane	57	5.964	5.965	(0.755)	1207000	104.990	105.0
	40 Bromochloromethane	128	6.742	6.743	(0.853)	488735	103.826	103.8
	84 Isobutyl alcohol	43	6.821	6.831	(0.863)	1125898	1948.89	1949
	42 Tetrahydrofuran	42	6.929	6.939	(0.877)	371552	94.4787	94.48
	43 tert-Amyl alcohol	59	7.096	7.097	(0.898)	483058	525.332	525.3
	39 Chloroform	83	6.712	6.723	(0.849)	1685189	96.4188	96.42
	17 Methyl acetate	43	4.596	4.597	(0.582)	878544	100.209	100.2
$	41 Dibromofluoromethane	111	6.889	6.890	(0.872)	311941	29.8941	29.89
	44 1,1,1-Trichloroethane	97	7.273	7.274	(0.920)	1420984	101.840	101.8
	38 ETBE	59	6.594	6.595	(0.834)	3893568	101.258	101.2
	49 Cyclohexane	56	7.539	7.540	(0.954)	1542694	90.9481	90.95
	51 Carbon tetrachloride	117	7.608	7.609	(0.963)	1189363	103.039	103.0
$	45 1,2-Dichloroethane-d4	102	7.382	7.382	(0.934)	65766	30.2272	30.23(Q)
	52 Benzene	78	7.647	7.648	(0.968)	3648793	103.517	103.5
	54 tert-Amyl Methyl Ether	73	7.834	7.835	(0.991)	2995002	96.6385	96.64
	46 1,2-Dichloroethane	62	7.470	7.481	(0.945)	1684793	95.4454	95.44
	37 2,2-Dichloropropane	77	6.574	6.575	(0.832)	1301917	91.1579	91.16
	48 1,1-Dichloropropene	75	7.490	7.491	(0.948)	1326317	99.4764	99.48(Q)
	58 Trichloroethene	95	8.395	8.396	(1.062)	923079	100.665	100.7
	62 1,4-Dioxane	88	8.612	8.613	(1.090)	205635	2153.10	2153(Q)
	59 1,2-Dichloropropane	63	8.444	8.445	(1.068)	1076657	101.445	101.4
	61 Dibromomethane	93	8.563	8.563	(1.083)	648532	98.2321	98.23
	50 Methyl methacrylate	41	8.582	8.583	(1.086)	1354675	99.2210	99.22
	63 Bromodichloromethane	83	8.622	8.622	(1.091)	1330664	96.0694	96.07
	64 tert-Amyl Ethyl Ether	59	8.720	8.721	(1.103)	3034772	99.4401	99.44
	68 2-Chloroethyl vinyl ether	63	8.986	8.986	(1.137)	1085915	161.065	161.1
	71 cis-1,3-Dichloropropene	75	9.192	9.193	(1.163)	1632246	103.231	103.2
	70 4-Methyl-2-pentanone	43	9.124	9.124	(1.154)	2748559	194.853	194.8
$	75 Toluene-d8	98	9.596	9.597	(0.871)	912489	30.4734	30.47
	77 Toluene	92	9.665	9.666	(0.878)	2062681	103.687	103.7
	76 trans-1,3-Dichloropropene	75	9.665	9.666	(0.878)	1491101	91.9397	91.94
	79 Ethyl methacrylate	69	9.852	9.862	(0.895)	1484146	104.727	104.7
	78 1,1,2-Trichloroethane	83	9.822	9.823	(0.892)	720356	103.737	103.7
	83 Tetrachloroethene	166	10.403	10.404	(0.945)	762692	104.026	104.0
	80 2-Hexanone	43	9.970	9.971	(0.905)	2034007	204.558	204.6

Data File: \\ELABNSH05\TARGET\chem\voa6.i\091311V6.b\0913ICV2.D
Report Date: 15-Sep-2011 13:07

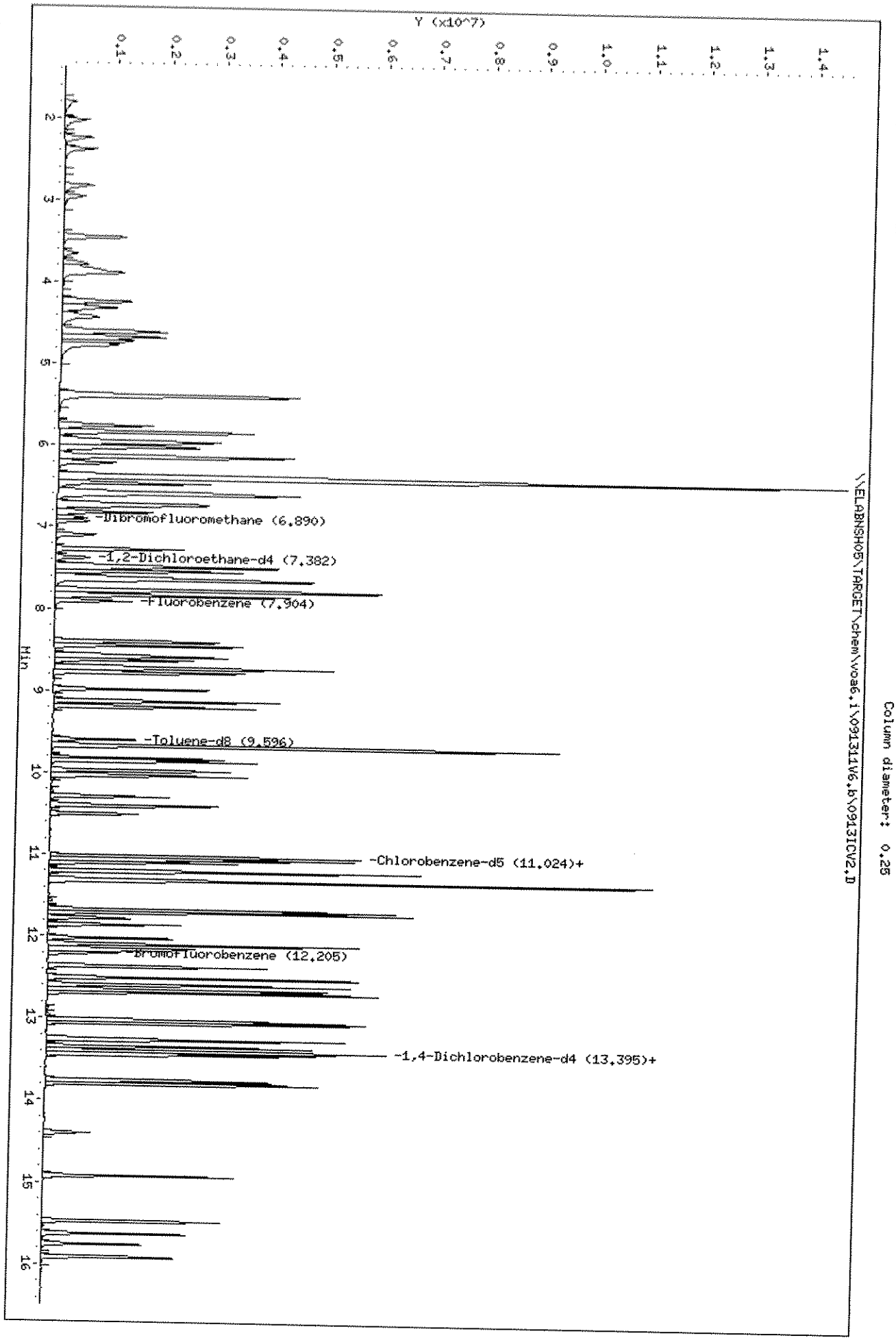
Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS ON-COLUMN (ug/L)	FINAL (ug/L)
82 Dibromochloromethane	129	10.285	10.295	(0.934)	974225	105.903	105.9
85 1,2-Dibromoethane	107	10.501	10.502	(0.954)	913998	102.477	102.5
65 Methyl cyclohexane	83	8.769	8.780	(1.110)	1091686	96.4082	96.41
* 86 Chlorobenzene-d5	82	11.013	11.014	(1.000)	455412	30.0000	
88 Chlorobenzene	112	11.053	11.053	(1.004)	2348661	104.110	104.1
89 1,1,1,2-Tetrachloroethane	131	11.092	11.093	(1.007)	837257	104.923	104.9
87 1-Chlorohexane	91	11.023	11.024	(1.001)	1124334	93.6861	93.69
90 Ethylbenzene	91	11.200	11.201	(1.017)	4080267	104.585	104.6
91 m,p-Xylene	91	11.308	11.319	(1.027)	6328023	210.084	210.1(A)
M 127 Xylene(total)	91				9581043	312.395	312.4
93 o-Xylene	91	11.702	11.703	(1.063)	3253020	102.311	102.3
92 Styrene	104	11.673	11.673	(1.060)	2613610	104.998	105.0
95 Bromoform	173	11.781	11.782	(1.070)	609896	119.496	119.5
125 cis-1,4-Dichloro-2-butene	75	11.860	11.860	(0.885)	430126	114.000	114.0
97 Isopropylbenzene	105	12.096	12.097	(1.098)	3209309	98.8163	98.82
$ 99 Bromofluorobenzene	95	12.204	12.205	(1.108)	404145	30.3057	30.30
96 1,1,2,2-Tetrachloroethane	83	12.027	12.028	(0.897)	1118566	101.327	101.3
81 1,3-Dichloropropane	76	10.029	10.030	(0.911)	1511694	103.993	104.0
98 1,2,3-Trichloropropane	110	12.145	12.146	(1.103)	306806	98.7099	98.71
124 trans-1,4-Dichloro-2-butene	53	12.165	12.175	(0.907)	487044	94.4963	94.50
101 n-Propylbenzene	91	12.509	12.510	(0.933)	4319802	101.276	101.3
105 1,3,5-Trimethylbenzene	105	12.686	12.687	(0.946)	3051073	105.656	105.6
108 1,2,4-Trimethylbenzene	105	13.051	13.061	(0.974)	3022841	101.230	101.2
109 sec-Butylbenzene	105	13.257	13.258	(0.989)	3403778	102.651	102.6
107 tert-Butylbenzene	119	13.021	13.022	(0.971)	2652873	102.553	102.6
110 1,3-Dichlorobenzene	146	13.346	13.347	(0.996)	1598624	102.528	102.5
* 112 1,4-Dichlorobenzene-d4	152	13.405	13.406	(1.000)	382446	30.0000	(Q)
113 1,4-Dichlorobenzene	146	13.434	13.445	(1.002)	1627147	102.742	102.7
115 n-Butylbenzene	91	13.799	13.799	(1.029)	2524390	100.721	100.7
114 1,2-Dichlorobenzene	146	13.759	13.760	(1.026)	1522368	102.419	102.4
118 1,2-Dibromo-3-chloropropane	157	14.399	14.400	(1.074)	184789	101.114	101.1
119 1,3,5-Trichlorobenzene	180	14.921	14.921	(1.113)	929156	101.564	101.6
100 Bromobenzene	156	12.371	12.372	(0.923)	890001	102.270	102.3
102 2-Chlorotoluene	91	12.588	12.589	(0.939)	2719035	100.424	100.4
103 4-Chlorotoluene	91	12.647	12.658	(0.943)	3165560	101.367	101.4
120 1,2,4-Trichlorobenzene	180	15.472	15.472	(1.154)	826295	97.8271	97.83
121 Naphthalene	128	15.629	15.630	(1.166)	1926497	95.2221	95.22
111 p-Isopropyltoluene	119	13.395	13.396	(0.999)	2695339	96.9895	96.99
122 Hexachlorobutadiene	225	15.757	15.758	(1.175)	370046	96.6153	96.62
123 1,2,3-Trichlorobenzene	180	15.915	15.915	(1.187)	689801	96.3683	96.37

QC Flag Legend

A - Target compound detected but, quantitated amount exceeded maximum amount.
Q - Qualifier signal failed the ratio test.

Data File: \\ELABNSHO5\TARGET\chem\voa6.i\091311V6.b\0913ICV2.D
Date : 13-SEP-2011 19:51
Client ID: SEQ-ICV2
Sample Info: SEQ-ICV2;;;;;
Purge Volume: 5.0
Column phase: RTX-VRX

Instrument: voa6.i
Operator: ADM
Column diameter: 0.25



Sequence Name: C:\HPCHEM\1\SEQUENCE\100511V6.S
Comment: 8260B
Operator: ADM
Data Path: d:\DATA\100511V6\
Pre-Seq Cmd:
Post-Seq Cmd:

JB 10/11 10/16/11

Method Sections To Run
(X) Full Method
( ) Reprocessing Only

On A Barcode Mismatch
(X) Inject Anyway
( ) Don't Inject

Line	Type	Vial	DataFile	Method	Sample Name
1	Blank	100	PREBLK1	VW6SUR	BLANK;;;;;
2	Blank	100	PREBLK2	VW6SUR	BLANK;;;;;
3	Sample	51	1005TUN1	VW6SUR	SEQ-TUN1 0731
4	DailyCal	1	1005CCV1	VW6SUR	SEQ-CCV1;;;;;
5	Spike	2	1005LCS1	VW6SUR	-BS1;;;;;
6	Sample	3	1005RL1	VW6SUR	SEQ-LCV1;;;;;
7	Blank	100	BLANK1	VW6SUR	BLANK;;;;;
8	Blank	100	1005BLK1	VW6SUR	1J05008-BLK1;;;;;
9	Sample	4	0920301	VW6SUR	1109203-01;;;;;
10	Sample	5	0920302	VW6SUR	1109203-02;;;;; pH-7
11	Sample	6	1000311	VW6SUR	1110003-11;;;;;
12	Sample	7	1000316	VW6SUR	1110003-16;;;;;
13	Sample	8	1001207	VW6SUR	1110012-07;;;;; all pH <2 except
14	Sample	9	1001208	VW6SUR	1110012-08;;;;; notes
15	Sample	10	1000301	VW6SUR	1110003-01;;;;;
16	Sample	11	1000303	VW6SUR	1110003-03;;;;
17	Sample	12	1000305	VW6SUR	1110003-05;;;;
18	Sample	13	1000307	VW6SUR	1110003-07;;;;
19	Sample	14	1000309	VW6SUR	1110003-09;;;;
20	Sample	15	1000312	VW6SUR	1110003-12;;;;
21	Sample	16	1000314	VW6SUR	1110003-14;;;;
22	Sample	17	1001201	VW6SUR	1110012-01;;;;
23	Sample	18	1001203	VW6SUR	1110012-03;;;;
24	Sample	19	1001205	VW6SUR	1110012-05;;;;
25	Sample	20	1000101R	VW6SUR	1110001-01RE1;5;;;
26	Sample	21	1000102R	VW6SUR	1110001-02RE1;10;;;
27	Sample	22	1000312M	VW6SUR	1J05008-MS1;;;;
28	Sample	23	1000312S	VW6SUR	1J05008-MSD1;;;; 1836
29					

Last Modified: Wed Oct 05 10:04:46 2011

Data File: \\ELABNSH05\TARGET\chem\voa6.i\100511V6.b\1005TUN1.D

Date : 05-OCT-2011 07:31

Client ID: 25ppb BFB

Instrument: voa6.i

Sample Info: SEQ-TUN1

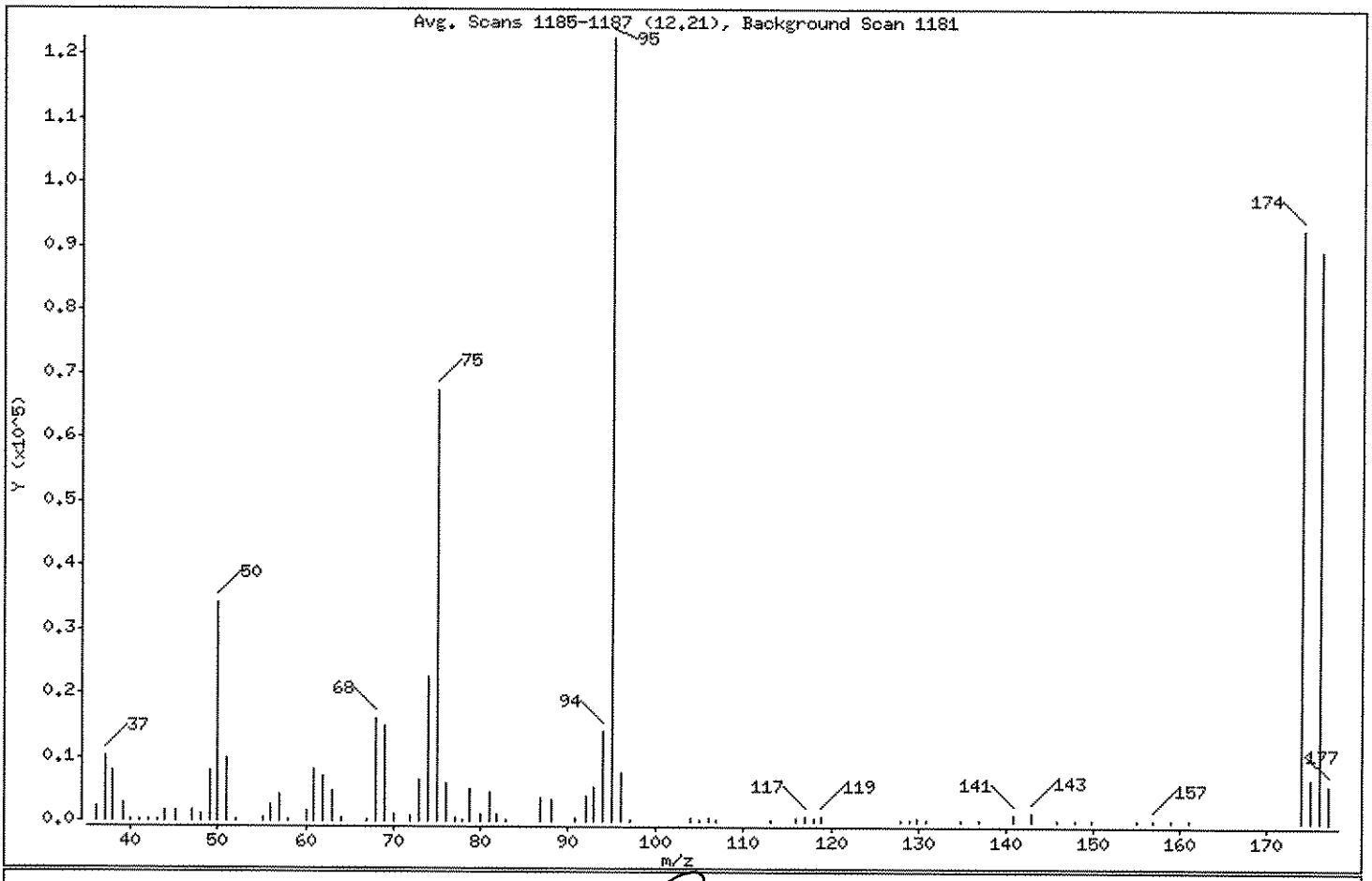
Volume Injected (uL): 1.0

Operator: ADM

Column phase: RTX-VRX

Column diameter: 0.25

1 bfb



10-6-11

m/e	ION ABUNDANCE CRITERIA	% RELATIVE ABUNDANCE
95	Base Peak, 100% relative abundance	100.00
50	15.00 - 40.00% of mass 95	27.87
75	30.00 - 60.00% of mass 95	55.01
96	5.00 - 9.00% of mass 95	6.29
173	Less than 2.00% of mass 174	0.00 (0.00)
174	Greater than 50.00% of mass 95	75.66
175	5.00 - 9.00% of mass 174	5.40 (7.14)
176	95.00 - 101.00% of mass 174	72.78 (96.19)
177	5.00 - 9.00% of mass 176	4.80 (6.59)

10/5/11

Data File: \\ELABNSH05\TARGET\chem\voa6.i\100511V6.b\1005TUN1.D

Date : 05-OCT-2011 07:31

Client ID: 25ppb BFB

Instrument: voa6.i

Sample Info: SEQ-TUN1

Volume Injected (uL): 1.0

Operator: ADM

Column phase: RTX-VRX

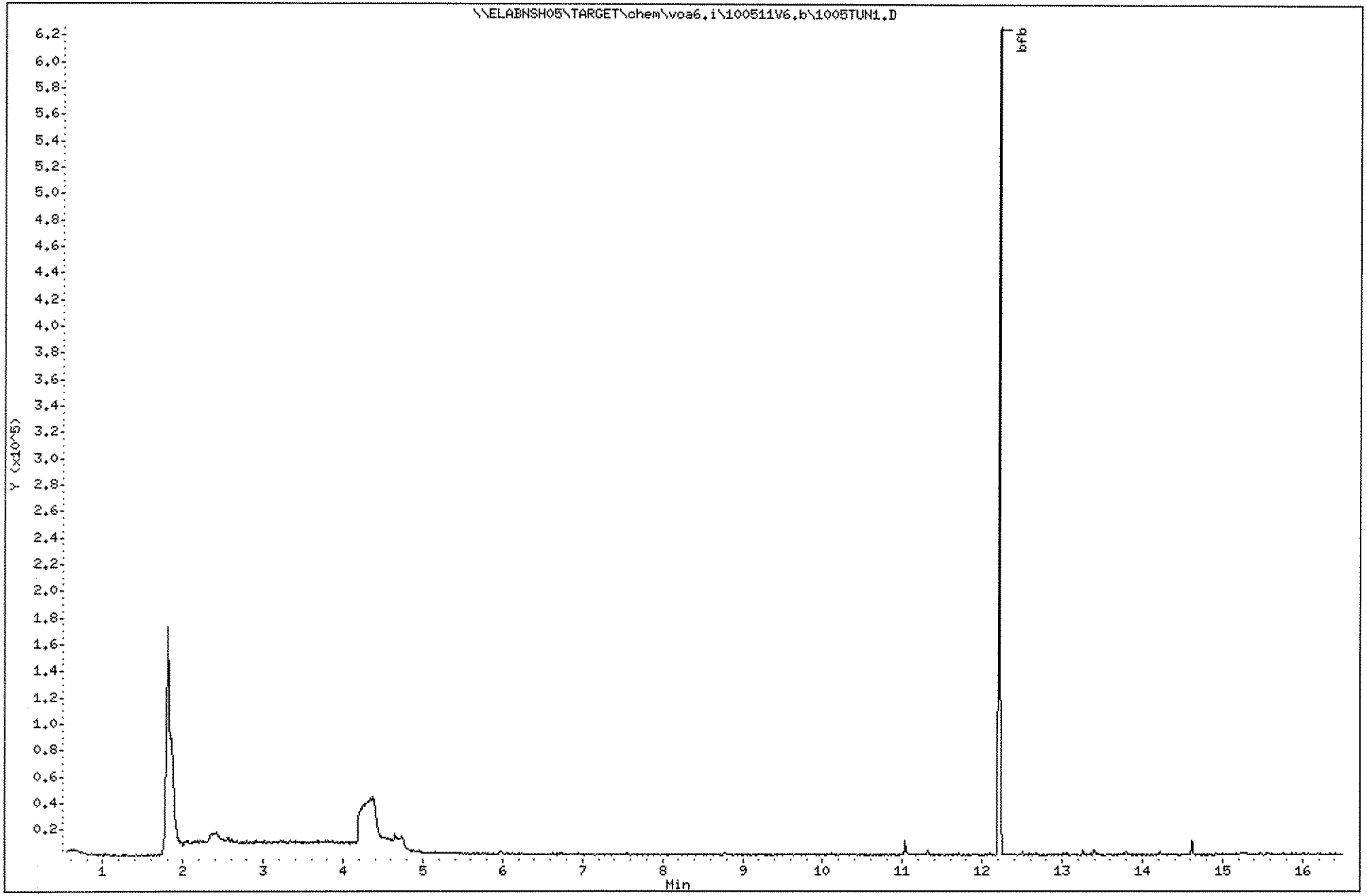
Column diameter: 0.25

Data File: 1005TUN1.D
Spectrum: Avg. Scans 1185-1187 (12.21), Background Scan 1181
Location of Maximum: 95.05
Number of points: 78

m/z	Y	m/z	Y	m/z	Y	m/z	Y
35.95	2371	60.00	1572	83.00	169	128.95	229
36.95	10101	61.00	8132	86.95	3546	129.85	674
37.95	7831	62.00	7045	88.05	3382	130.85	220
39.00	2827	63.00	4853	90.90	629	134.85	314
39.90	241	64.05	446	91.95	4009	136.85	227
41.00	302	66.90	404	92.95	5370	140.90	1250
41.95	166	67.90	16005	93.95	14142	142.95	1400
42.95	253	69.00	14952	95.05	122552	145.90	242
43.95	1797	70.00	1033	96.00	7703	147.90	277
45.05	1772	71.95	896	97.00	192	149.85	186
46.90	1724	72.95	6491	103.80	507	154.90	263
48.00	1164	74.00	22400	104.90	270	156.85	266
49.00	7826	75.00	67416	105.90	546	158.85	211
49.95	34152	76.00	5992	106.75	194	160.90	226
50.95	9980	77.00	656	113.00	207	173.90	92728
51.95	257	77.85	393	115.85	531	174.90	6623
55.00	454	78.85	5002	116.90	875	175.90	89192
56.00	2444	79.95	1131	117.90	572	177.00	5882
56.95	4213	80.95	4524	118.90	874		
58.05	171	81.80	1001	127.95	404		

Data File: \\ELABNSH05\TARGET\chem\voa6.i\100511V6.b\1005TUN1.D
Date : 05-OCT-2011 07:31
Client ID: 25ppb BFB
Sample Info: SEQ-TUN1
Volume Injected (uL): 1.0
Column phase: RTX-VRX

Instrument: voa6.i
Operator: ADM
Column diameter: 0.25



Data File: \\ELABNSH04\DD\chem\voa6.i\100511V6.b\1005CCV1.D
Report Date: 05-Oct-2011 08:15

Laboratory Name

Data file : \\ELABNSH04\DD\chem\voa6.i\100511V6.b\1005CCV1.D
Lab Smp Id: SEQ-CCV1
Inj Date : 05-OCT-2011 07:58 MS Autotune Date: 13-SEP-2011 09:32
Operator : ADM Inst ID: voa6.i
Smp Info : SEQ-CCV1;;;;;
Misc Info : ;2;;;;8260.sub;
Comment :
Method : \\ELABNSH04\DD\chem\voa6.i\100511V6.b\VW6SUR.m
Meth Date : 05-Oct-2011 08:15 tapsvc Quant Type: ISTD
Cal Date : 13-SEP-2011 18:30 Cal File: 0913CAL9.D
Als bottle: 1 Continuing Calibration Sample
Dil Factor: 1.00000
Integrator: HP RTE Compound Sublist: 8260.sub
Target Version: 4.04
Processing Host: ELABNSH04

Concentration Formula: Amt * DF * 5*Uf/Vo

Name	Value	Description
DF	1.000	Dilution Factor
Uf	1.000	unit correction factor
Vo	5.000	Volume of sample purged (mL)

10/5/11

10-6-11

Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	AMOUNTS CAL-AMT (ug/L)	ON-COL (ug/L)
* 55 Fluorobenzene	96	7.912	7.912	(1.000)	989404	30.0000	
1 Dichlorodifluoromethane	85	2.017	2.017	(0.255)	800478	100.000	97.05
2 Chloromethane	50	2.233	2.233	(0.282)	590392	100.000	60.11
3 Vinyl chloride	62	2.381	2.381	(0.301)	758295	100.000	89.47
4 Bromomethane	94	2.824	2.824	(0.357)	217988	100.000	42.01
5 Chloroethane	64	2.962	2.962	(0.374)	409071	100.000	76.32
6 Trichlorofluoromethane	101	3.464	3.464	(0.438)	1173951	100.000	89.22
10 Ethyl Ether	59	3.907	3.907	(0.494)	512819	100.000	72.83
22 Acetonitrile	41	3.857	3.857	(0.488)	994208	1000.00	702.4
14 Trichlorotrifluoroethane	101	4.330	4.330	(0.547)	591643	100.000	84.68
7 Acrolein	56	3.670	3.670	(0.464)	437721	500.000	273.5
36 Allyl chloride	41	4.684	4.684	(0.592)	1156233	100.000	75.09
13 1,1-Dichloroethene	96	4.251	4.251	(0.537)	520352	100.000	80.73(Q)
9 Acetone	43	3.788	3.788	(0.479)	1068611	200.000	268.8
15 t-Butyl alcohol	59	4.418	4.418	(0.558)	385080	500.000	371.1
16 Iodomethane	142	4.448	4.448	(0.562)	478190	100.000	47.10

Data File: \\ELABNSH04\DD\chem\voa6.i\100511V6.b\1005CCV1.D
Report Date: 05-Oct-2011 08:15

	Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	AMOUNTS CAL-AMT (ug/L)	AMOUNTS ON-COL (ug/L)
	20 Carbon disulfide	76	4.783	4.783	(0.604)	1914464	100.000	87.32
	19 Methylene chloride	84	4.733	4.733	(0.598)	616031	100.000	76.60
	18 Acrylonitrile	53	4.625	4.625	(0.585)	1283986	500.000	394.7(Q)
	24 trans-1,2-Dichloroethene	96	5.403	5.403	(0.683)	615389	100.000	74.44
	23 MTBE	73	5.403	5.403	(0.683)	2078264	100.000	74.70
	26 1,1-Dichloroethane	63	5.777	5.777	(0.730)	1447089	100.000	77.62
	56 Propionitrile	54	5.944	5.944	(0.751)	1138045	1000.00	673.9
	27 Vinyl acetate	43	5.845	5.845	(0.739)	4662386	200.000	165.1
	69 Chloroprene	53	6.032	6.032	(0.762)	1580422	100.000	84.15
	32 Di-isopropyl ether	45	6.141	6.141	(0.776)	3208847	100.000	70.66
	35 cis-1,2-Dichloroethene	96	6.475	6.475	(0.818)	744975	100.000	79.83(Q)
M	47 1,2-Dichloroethene(total)	96				1360364	200.000	154.3
	33 2-Butanone	43	6.219	6.219	(0.786)	1293943	200.000	180.7
	73 Methacrylonitrile	41	6.397	6.397	(0.808)	6560232	1000.00	713.0
	72 Hexane	57	5.973	5.973	(0.755)	990108	100.000	87.46
	40 Bromochloromethane	128	6.751	6.751	(0.853)	398729	100.000	86.02
	84 Isobutyl alcohol	43	6.830	6.830	(0.863)	816370	2000.00	1435
	42 Tetrahydrofuran	42	6.938	6.938	(0.877)	280196	100.000	72.36
	43 tert-Amyl alcohol	59	7.105	7.105	(0.898)	330878	500.000	365.4
	39 Chloroform	83	6.731	6.731	(0.851)	1497909	100.000	87.03
	17 Methyl acetate	43	4.605	4.605	(0.582)	568062	100.000	65.80
$	41 Dibromofluoromethane	111	6.899	6.899	(0.872)	305935	30.0000	29.77
	44 1,1,1-Trichloroethane	97	7.282	7.282	(0.920)	1332027	100.000	96.95
	38 ETBE	59	6.603	6.603	(0.835)	3072246	100.000	81.14
	49 Cyclohexane	56	7.548	7.548	(0.954)	1324156	100.000	79.28
	51 Carbon tetrachloride	117	7.617	7.617	(0.963)	1138162	100.000	100.1
$	45 1,2-Dichloroethane-d4	102	7.391	7.391	(0.934)	62460	30.0000	29.15
	52 Benzene	78	7.656	7.656	(0.968)	2808635	100.000	80.92
	54 tert-Amyl Methyl Ether	73	7.843	7.843	(0.991)	2483303	100.000	81.37
	46 1,2-Dichloroethane	62	7.489	7.489	(0.947)	1643485	100.000	94.55
	37 2,2-Dichloropropane	77	6.584	6.584	(0.832)	1355994	100.000	96.42
	48 1,1-Dichloropropene	75	7.499	7.499	(0.948)	1143062	100.000	87.06(Q)
	58 Trichloroethene	95	8.404	8.404	(1.062)	819140	100.000	90.72
	62 1,4-Dioxane	88	8.611	8.611	(1.088)	163772	2000.00	1741(Q)
	59 1,2-Dichloropropane	63	8.454	8.454	(1.068)	852138	100.000	81.54
	61 Dibromomethane	93	8.572	8.572	(1.083)	577846	100.000	88.88
	50 Methyl methacrylate	41	8.591	8.591	(1.086)	1103532	100.000	82.08
	63 Bromodichloromethane	83	8.631	8.631	(1.091)	1253492	100.000	91.90
	64 tert-Amyl Ethyl Ether	59	8.719	8.719	(1.102)	2482568	100.000	82.61
	68 2-Chloroethyl vinyl ether	63	8.985	8.985	(1.136)	1170881	200.000	176.4
	71 cis-1,3-Dichloropropene	75	9.202	9.202	(1.163)	1368500	100.000	87.89
	70 4-Methyl-2-pentanone	43	9.133	9.133	(1.154)	2245732	200.000	161.7
$	75 Toluene-d8	98	9.595	9.595	(0.871)	982565	30.0000	32.58
	77 Toluene	92	9.674	9.674	(0.878)	1746250	100.000	87.16
	76 trans-1,3-Dichloropropene	75	9.674	9.674	(0.878)	1456884	100.000	89.19
	79 Ethyl methacrylate	69	9.861	9.861	(0.895)	1164373	100.000	81.58
	78 1,1,2-Trichloroethane	83	9.831	9.831	(0.892)	592241	100.000	84.68

Data File: \\ELABNSH04\DD\chem\voa6.i\100511V6.b\1005CCV1.D
Report Date: 05-Oct-2011 08:15

Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	AMOUNTS CAL-AMT (ug/L)	AMOUNTS ON-COL (ug/L)
83 Tetrachloroethene	166	10.402	10.402	(0.944)	700028	100.000	94.80
80 2-Hexanone	43	9.979	9.979	(0.905)	1942042	200.000	193.9
82 Dibromochloromethane	129	10.294	10.294	(0.934)	923687	100.000	99.70
85 1,2-Dibromoethane	107	10.511	10.511	(0.954)	846616	100.000	94.25
65 Methyl cyclohexane	83	8.778	8.778	(1.109)	988320	100.000	88.64
* 86 Chlorobenzene-d5	82	11.022	11.022	(1.000)	458672	30.0000	
88 Chlorobenzene	112	11.062	11.062	(1.004)	2145951	100.000	94.45
89 1,1,1,2-Tetrachloroethane	131	11.101	11.101	(1.007)	777121	100.000	96.69
87 1-Chlorohexane	91	11.022	11.022	(1.000)	1012680	100.000	83.78
90 Ethylbenzene	91	11.200	11.200	(1.016)	3637360	100.000	92.57
91 m,p-Xylene	91	11.318	11.318	(1.027)	5782325	200.000	190.6
M 127 Xylene(total)	91				8737265	300.000	282.9
93 o-Xylene	91	11.711	11.711	(1.063)	2954939	100.000	92.28
92 Styrene	104	11.682	11.682	(1.060)	2356656	100.000	94.00
95 Bromoform	173	11.780	11.780	(1.069)	576317	100.000	112.1
125 cis-1,4-Dichloro-2-butene	75	11.859	11.859	(0.884)	333449	100.000	93.49
97 Isopropylbenzene	105	12.105	12.105	(1.098)	3158621	100.000	96.56
$ 99 Bromofluorobenzene	95	12.213	12.213	(1.108)	427865	30.0000	31.86
96 1,1,2,2-Tetrachloroethane	83	12.026	12.026	(0.897)	989784	100.000	94.85
81 1,3-Dichloropropane	76	10.038	10.038	(0.911)	1317931	100.000	90.02
98 1,2,3-Trichloropropane	110	12.154	12.154	(1.103)	303235	100.000	96.87
124 trans-1,4-Dichloro-2-butene	53	12.174	12.174	(0.908)	490268	100.000	100.6
101 n-Propylbenzene	91	12.509	12.509	(0.933)	4122646	100.000	102.2
105 1,3,5-Trimethylbenzene	105	12.686	12.686	(0.946)	2853313	100.000	104.5
108 1,2,4-Trimethylbenzene	105	13.060	13.060	(0.974)	2962699	100.000	105.0
109 sec-Butylbenzene	105	13.257	13.257	(0.988)	3360110	100.000	107.2
107 tert-Butylbenzene	119	13.030	13.030	(0.971)	2655364	100.000	108.6
110 1,3-Dichlorobenzene	146	13.345	13.345	(0.995)	1484453	100.000	100.7
* 112 1,4-Dichlorobenzene-d4	152	13.414	13.414	(1.000)	361517	30.0000	(Q)
113 1,4-Dichlorobenzene	146	13.444	13.444	(1.002)	1509001	100.000	100.8
115 n-Butylbenzene	91	13.798	13.798	(1.029)	2524342	100.000	106.5
114 1,2-Dichlorobenzene	146	13.758	13.758	(1.026)	1431585	100.000	101.9
118 1,2-Dibromo-3-chloropropane	157	14.398	14.398	(1.073)	181440	100.000	105.0
119 1,3,5-Trichlorobenzene	180	14.920	14.920	(1.112)	975013	100.000	112.7
100 Bromobenzene	156	12.371	12.371	(0.922)	838569	100.000	101.9
102 2-Chlorotoluene	91	12.597	12.597	(0.939)	2568279	100.000	100.3
103 4-Chlorotoluene	91	12.656	12.656	(0.944)	3025759	100.000	102.5
120 1,2,4-Trichlorobenzene	180	15.471	15.471	(1.153)	943028	100.000	118.1
121 Naphthalene	128	15.628	15.628	(1.165)	2465738	100.000	128.9(A)
111 p-Isopropyltoluene	119	13.394	13.394	(0.999)	2879644	100.000	109.6
122 Hexachlorobutadiene	225	15.756	15.756	(1.175)	406770	100.000	112.4
123 1,2,3-Trichlorobenzene	180	15.914	15.914	(1.186)	839559	100.000	124.1

QC Flag Legend

A - Target compound detected but, quantitated amount exceeded maximum amount.

Data File: \\ELABNSH04\DD\chem\voa6.i\100511V6.b\1005CCV1.D
Report Date: 05-Oct-2011 08:15

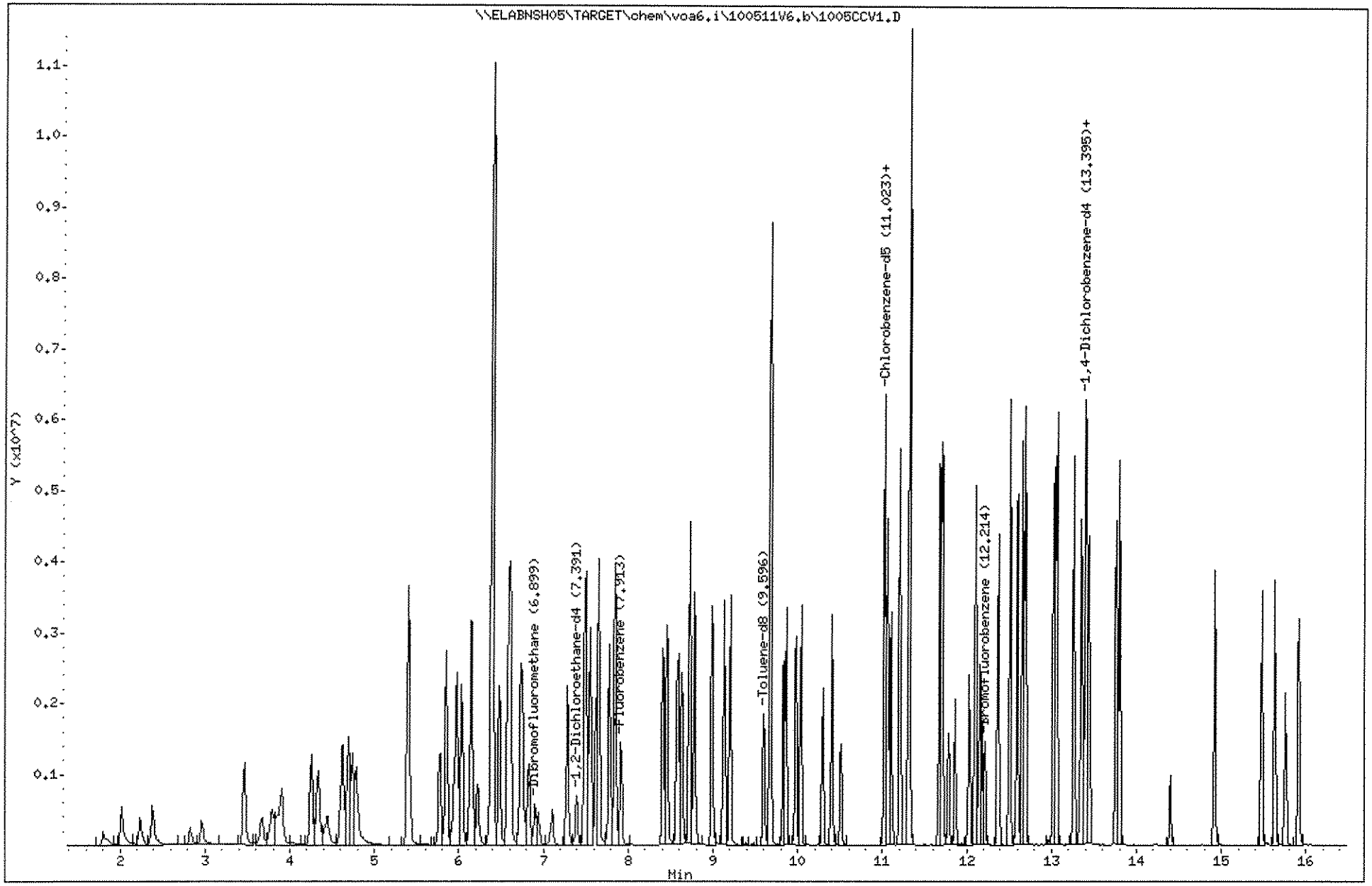
QC Flag Legend

Q - Qualifier signal failed the ratio test.

Data File: \\ELABNSH05\TARGET\chem\voa6.i\100511V6.b\1005CCV1.D
Date : 05-OCT-2011 07:58
Client ID:
Sample Info: SEQ-CCV1;;;;;
Purge Volume: 5.0
Column phase: RTX-VRX

Instrument: voa6.i

Operator: ADM
Column diameter: 0.25



146

1110003

Data File: \\ELABNSH05\TARGET\chem\voa6.i\100511V6.b\1005LCS1.D
Report Date: 05-Oct-2011 09:26

Laboratory Name

Data file : \\ELABNSH05\TARGET\chem\voa6.i\100511V6.b\1005LCS1.D
Lab Smp Id: 1J05008-BS1 Client Smp ID: 1J05008-BS1
Inj Date : 05-OCT-2011 08:24 MS Autotune Date: 13-SEP-2011 09:32
Operator : ADM Inst ID: voa6.i
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Misc Info : ;3;LCS;;;8260.sub;
Comment :
Method : \\ELABNSH05\TARGET\chem\voa6.i\100511V6.b\VW6SUR.m
Meth Date : 05-Oct-2011 08:15 tapsvc Quant Type: ISTD
Cal Date : 13-SEP-2011 18:30 Cal File: 0913CAL9.D
Als bottle: 2 QC Sample: LCS
Dil Factor: 1.00000
Integrator: HP RTE Compound Sublist: 8260.sub
Target Version: 4.04
Processing Host: TARGET10_VM

Concentration Formula: Amt * DF * 5*Uf/Vo

Name	Value	Description
DF	1.000	Dilution Factor
Uf	1.000	unit correction factor
Vo	5.000	Volume of sample purged (mL)

10/6/11

10-6-11

Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS ON-COLUMN (ug/L)	FINAL (ug/L)
* 55 Fluorobenzene	96	7.917	7.912	(1.000)	1020569	30.0000	
1 Dichlorodifluoromethane	85	2.022	2.017	(0.255)	380168	44.6842	44.68
2 Chloromethane	50	2.238	2.233	(0.283)	324458	32.0246	32.02
3 Vinyl chloride	62	2.376	2.381	(0.300)	442840	50.6567	50.66
4 Bromomethane	94	2.829	2.824	(0.357)	106890	19.9709	19.97
5 Chloroethane	64	2.957	2.962	(0.374)	243664	44.0701	44.07
6 Trichlorofluoromethane	101	3.459	3.464	(0.437)	631413	46.5237	46.52
10 Ethyl Ether	59	3.902	3.907	(0.493)	289013	39.7907	39.79
22 Acetonitrile	41	3.852	3.857	(0.487)	567380	388.642	388.6
14 Trichlorotrifluoroethane	101	4.325	4.330	(0.546)	289209	40.1285	40.13
7 Acrolein	56	3.665	3.670	(0.463)	388436	235.296	235.3
36 Allyl chloride	41	4.689	4.684	(0.592)	656974	41.3628	41.36
13 1,1-Dichloroethene	96	4.256	4.251	(0.538)	263782	39.6771	39.68(Q)
9 Acetone	43	3.783	3.788	(0.478)	278044	67.7950	67.80
15 t-Butyl alcohol	59	4.413	4.418	(0.557)	215129	201.005	201.0
16 Iodomethane	142	4.443	4.448	(0.561)	246446	24.3452	24.34(R)

Data File: \\ELABNSH05\TARGET\chem\voa6.i\100511V6.b\1005LCS1.D
Report Date: 05-Oct-2011 09:26

	Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS ON-COLUMN (ug/L)	CONCENTRATIONS FINAL (ug/L)
	20 Carbon disulfide	76	4.778	4.783	(0.603)	792741	35.0524	35.05
	19 Methylene chloride	84	4.728	4.733	(0.597)	311577	37.5600	37.56
	18 Acrylonitrile	53	4.620	4.625	(0.584)	694834	207.073	207.1(Q)
	24 trans-1,2-Dichloroethene	96	5.398	5.403	(0.682)	340817	39.9708	39.97
	23 MTBE	73	5.398	5.403	(0.682)	1131933	39.4437	39.44
	26 1,1-Dichloroethane	63	5.772	5.777	(0.729)	797236	41.4592	41.46
	56 Propionitrile	54	5.939	5.944	(0.750)	624463	358.482	358.5
	27 Vinyl acetate	43	5.850	5.845	(0.739)	2546162	87.4169	87.42
	69 Chloroprene	53	6.027	6.032	(0.761)	792880	40.9284	40.93
	32 Di-isopropyl ether	45	6.146	6.141	(0.776)	1755608	37.4780	37.48
	35 cis-1,2-Dichloroethene	96	6.470	6.475	(0.817)	391082	40.6264	40.63(Q)
M	47 1,2-Dichloroethene(total)	96				731900	80.5972	80.60
	33 2-Butanone	43	6.214	6.219	(0.785)	514579	69.6744	69.67
	73 Methacrylonitrile	41	6.392	6.397	(0.807)	3591601	378.440	378.4
	72 Hexane	57	5.968	5.973	(0.754)	532365	45.5904	45.59
	40 Bromochloromethane	128	6.746	6.751	(0.852)	206866	43.2660	43.27
	84 Isobutyl alcohol	43	6.825	6.830	(0.862)	400462	682.452	682.4
	42 Tetrahydrofuran	42	6.943	6.938	(0.877)	137023	34.3031	34.30(R)
	43 tert-Amyl alcohol	59	7.100	7.105	(0.897)	174997	187.365	187.4
	39 Chloroform	83	6.726	6.731	(0.850)	753790	42.4606	42.46
	17 Methyl acetate	43	4.610	4.605	(0.582)	326035	36.6127	36.61
$	41 Dibromofluoromethane	111	6.894	6.899	(0.871)	309770	29.2265	29.23
	44 1,1,1-Trichloroethane	97	7.277	7.282	(0.919)	663618	46.8241	46.82
	38 ETBE	59	6.608	6.603	(0.835)	1553172	39.7672	39.77
	49 Cyclohexane	56	7.543	7.548	(0.953)	591233	34.3159	34.32
	51 Carbon tetrachloride	117	7.622	7.617	(0.963)	549985	46.9094	46.91
$	45 1,2-Dichloroethane-d4	102	7.386	7.391	(0.933)	62520	28.2905	28.29
	52 Benzene	78	7.651	7.656	(0.966)	1437546	40.1519	40.15
	54 tert-Amyl Methyl Ether	73	7.838	7.843	(0.990)	1153396	36.6399	36.64
	46 1,2-Dichloroethane	62	7.484	7.489	(0.945)	799776	44.6067	44.61
	37 2,2-Dichloropropane	77	6.579	6.584	(0.831)	673312	46.4142	46.41
	48 1,1-Dichloropropene	75	7.494	7.499	(0.947)	558782	41.2608	41.26(Q)
	58 Trichloroethene	95	8.409	8.404	(1.062)	401832	43.1427	43.14
	62 1,4-Dioxane	88	8.606	8.611	(1.087)	84116	867.098	867.1(Q)
	59 1,2-Dichloropropane	63	8.458	8.454	(1.068)	427683	39.6731	39.67
	61 Dibromomethane	93	8.567	8.572	(1.082)	272901	40.6958	40.70
	50 Methyl methacrylate	41	8.586	8.591	(1.085)	556116	40.1011	40.10
	63 Bromodichloromethane	83	8.626	8.631	(1.090)	591946	42.0748	42.07
	64 tert-Amyl Ethyl Ether	59	8.724	8.719	(1.102)	1213591	39.1499	39.15
	68 2-Chloroethyl vinyl ether	63	8.980	8.985	(1.134)	339708	49.6060	49.61
	71 cis-1,3-Dichloropropene	75	9.197	9.202	(1.162)	689210	42.9140	42.91
	70 4-Methyl-2-pentanone	43	9.128	9.133	(1.153)	1102928	76.9790	76.98
$	75 Toluene-d8	98	9.590	9.595	(0.870)	981344	32.1828	32.18
	77 Toluene	92	9.669	9.674	(0.878)	878346	43.3579	43.36
	76 trans-1,3-Dichloropropene	75	9.669	9.674	(0.878)	644733	39.0379	39.04
	79 Ethyl methacrylate	69	9.856	9.861	(0.895)	603817	41.8404	41.84
	78 1,1,2-Trichloroethane	83	9.826	9.831	(0.892)	296015	41.8613	41.86

Data File: \\ELABNSH05\TARGET\chem\voa6.i\100511V6.b\1005LCS1.D
Report Date: 05-Oct-2011 09:26

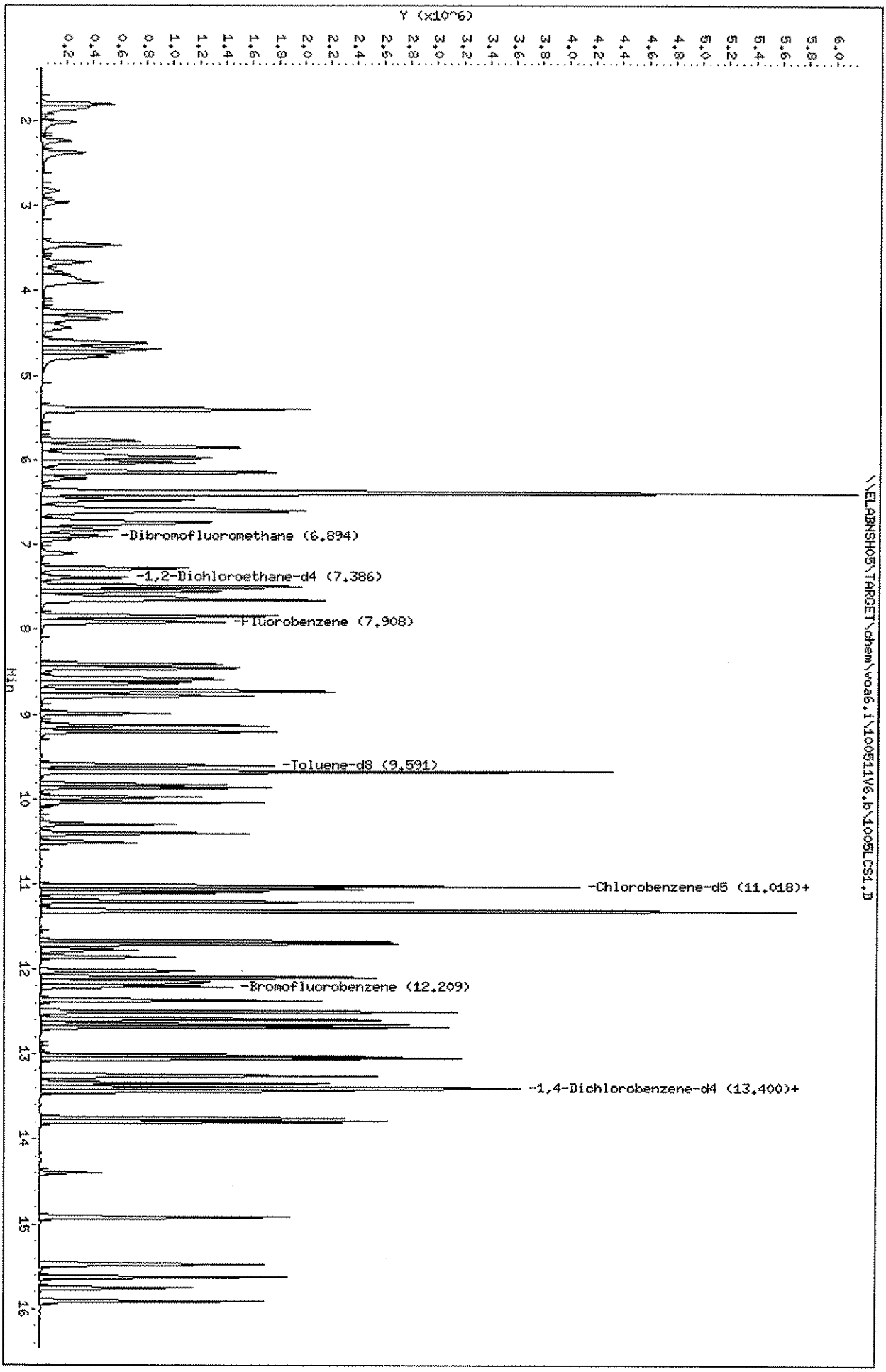
Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS ON-COLUMN (ug/L)	FINAL (ug/L)
83 Tetrachloroethene	166	10.397	10.402	(0.944)	345565	46.2842	46.28
80 2-Hexanone	43	9.974	9.979	(0.905)	779775	77.0093	77.01
82 Dibromochloromethane	129	10.289	10.294	(0.934)	425319	45.4020	45.40
85 1,2-Dibromoethane	107	10.506	10.511	(0.954)	405740	44.6725	44.67
65 Methyl cyclohexane	83	8.773	8.778	(1.108)	457919	39.8133	39.81
* 86 Chlorobenzene-d5	82	11.017	11.022	(1.000)	463761	30.0000	
88 Chlorobenzene	112	11.057	11.062	(1.004)	1057437	46.0296	46.03
89 1,1,1,2-Tetrachloroethane	131	11.096	11.101	(1.007)	377124	46.4096	46.41
87 1-Chlorohexane	91	11.017	11.022	(1.000)	490383	40.1259	40.12
90 Ethylbenzene	91	11.204	11.200	(1.017)	1792475	45.1175	45.12
91 m,p-Xylene	91	11.313	11.318	(1.027)	2837422	92.5036	92.50
M 127 Xylene(total)	91				4281680	137.109	137.1
93 o-Xylene	91	11.706	11.711	(1.063)	1444258	44.6057	44.60
92 Styrene	104	11.677	11.682	(1.060)	1139970	44.9720	44.97
95 Bromoform	173	11.775	11.780	(1.069)	266425	51.2605	51.26
125 cis-1,4-Dichloro-2-butene	75	11.854	11.859	(0.884)	171920	47.1369	47.14
97 Isopropylbenzene	105	12.100	12.105	(1.098)	1471664	44.4975	44.50
$ 99 Bromofluorobenzene	95	12.208	12.213	(1.108)	413208	30.4275	30.43
96 1,1,2,2-Tetrachloroethane	83	12.021	12.026	(0.897)	486526	45.5926	45.59
81 1,3-Dichloropropane	76	10.033	10.038	(0.911)	636375	42.9896	42.99
98 1,2,3-Trichloropropane	110	12.149	12.154	(1.103)	149342	47.1834	47.18
124 trans-1,4-Dichloro-2-butene	53	12.169	12.174	(0.908)	236727	47.5138	47.51
101 n-Propylbenzene	91	12.504	12.509	(0.932)	2012207	48.8024	48.80
105 1,3,5-Trimethylbenzene	105	12.681	12.686	(0.946)	1429918	51.2246	51.22
108 1,2,4-Trimethylbenzene	105	13.055	13.060	(0.974)	1458199	50.5164	50.52
109 sec-Butylbenzene	105	13.252	13.257	(0.988)	1612298	50.3005	50.30
107 tert-Butylbenzene	119	13.025	13.030	(0.971)	1283760	51.3379	51.34
110 1,3-Dichlorobenzene	146	13.350	13.345	(0.996)	736045	48.8342	48.83
* 112 1,4-Dichlorobenzene-d4	152	13.409	13.414	(1.000)	369697	30.0000	(Q)
113 1,4-Dichlorobenzene	146	13.439	13.444	(1.002)	751268	49.0730	49.07
115 n-Butylbenzene	91	13.793	13.798	(1.029)	1227299	50.6566	50.66
114 1,2-Dichlorobenzene	146	13.753	13.758	(1.026)	705804	49.1211	49.12
118 1,2-Dibromo-3-chloropropane	157	14.393	14.398	(1.073)	85780	48.5562	48.56
119 1,3,5-Trichlorobenzene	180	14.915	14.920	(1.112)	494744	55.9443	55.94
100 Bromobenzene	156	12.366	12.371	(0.922)	401515	47.7291	47.73
102 2-Chlorotoluene	91	12.592	12.597	(0.939)	1282393	48.9969	49.00
103 4-Chlorotoluene	91	12.651	12.656	(0.943)	1467346	48.6076	48.61
120 1,2,4-Trichlorobenzene	180	15.476	15.471	(1.154)	467904	57.3067	57.31
121 Naphthalene	128	15.623	15.628	(1.165)	1195409	61.1238	61.12
111 p-Isopropyltoluene	119	13.389	13.394	(0.999)	1319046	49.1015	49.10
122 Hexachlorobutadiene	225	15.751	15.756	(1.175)	206180	55.6880	55.69
123 1,2,3-Trichlorobenzene	180	15.909	15.914	(1.186)	420164	60.7231	60.72

QC Flag Legend

Q - Qualifier signal failed the ratio test.
R - Spike/Surrogate failed recovery limits.

Data File: \\ELABNSHO5\TARGET\chem\voa6.i\100511V6.b\100LCS1.D
Date : 05-OCT-2011 08:24
Client ID: 1J05008-BS1
Sample Info: 1J05008-BS1;;;;;
Purge Volume: 5.0
Column phase: RTX-VRX

Instrument: voa6.i
Operator: ADH
Column diameter: 0.25



Data File: \\ELABNSH05\TARGET\chem\voa6.i\100511V6.b\1005BLK1.D
Report Date: 05-Oct-2011 11:27

Laboratory Name

Data file : \\ELABNSH05\TARGET\chem\voa6.i\100511V6.b\1005BLK1.D
Lab Smp Id: 1J05008-BLK1 Client Smp ID: 1J05008-BLK1
Inj Date : 05-OCT-2011 09:43 MS Autotune Date: 13-SEP-2011 09:32
Operator : ADM Inst ID: voa6.i
Smp Info : 1J05008-BLK1;;;;;
Misc Info : ;3;BLANK;;;8260.sub;
Comment :
Method : \\ELABNSH05\TARGET\chem\voa6.i\100511V6.b\VW6SUR.m
Meth Date : 05-Oct-2011 08:15 tapsvc Quant Type: ISTD
Cal Date : 13-SEP-2011 18:30 Cal File: 0913CAL9.D
Als bottle: 100 QC Sample: BLANK
Dil Factor: 1.00000
Integrator: HP RTE Compound Sublist: 8260.sub
Target Version: 4.04
Processing Host: TARGET10_VM

Concentration Formula: Amt * DF * 5*Uf/Vo

Name	Value	Description
DF	1.000	Dilution Factor
Uf	1.000	unit correction factor
Vo	5.000	Volume of sample purged (mL)

10/6/11

10-6-11

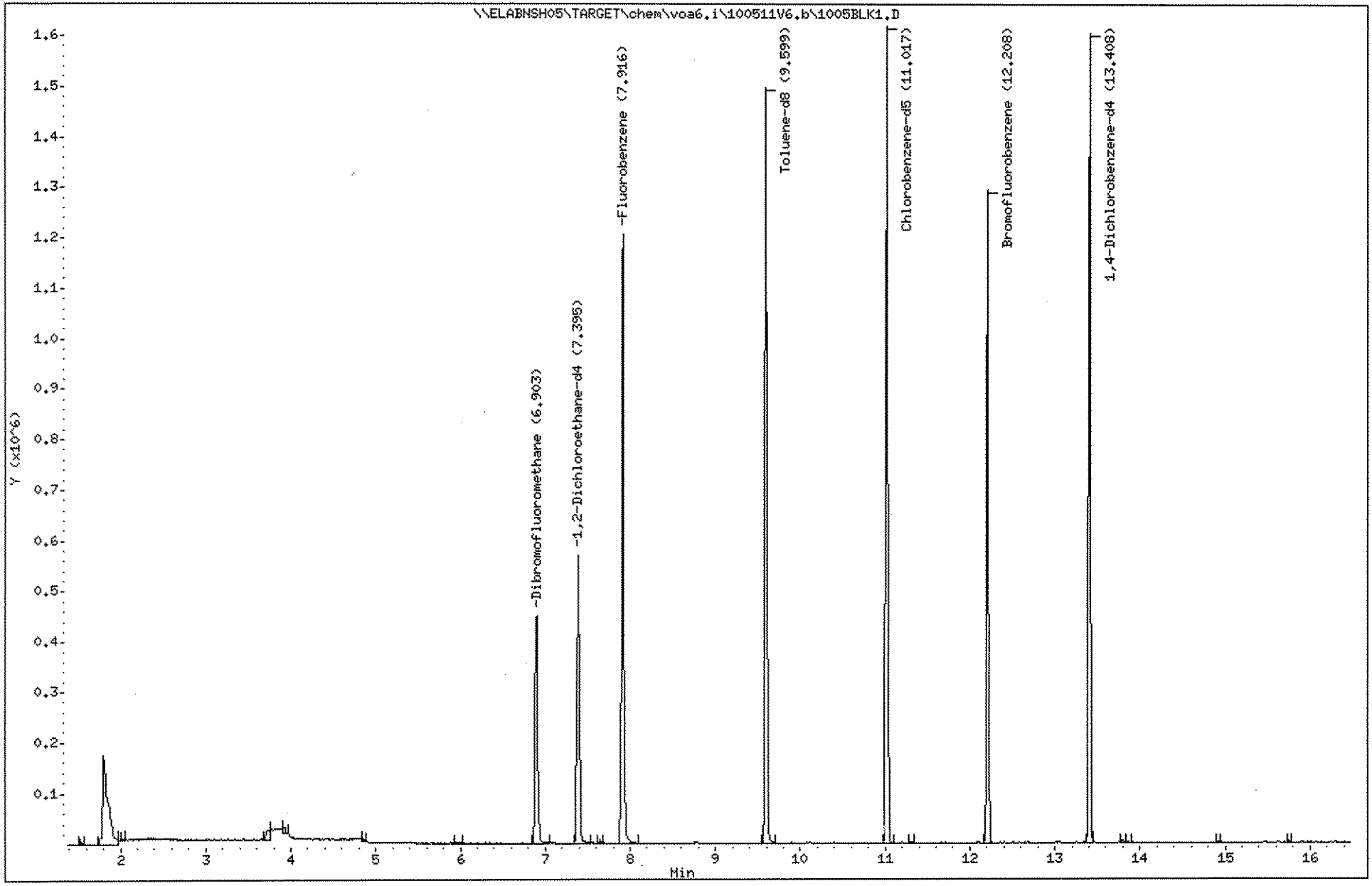
Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS ON-COLUMN (ug/L)	FINAL (ug/L)
* 55 Fluorobenzene	96	7.916	7.912	(1.000)	869610	30.0000	
$ 41 Dibromofluoromethane	111	6.892	6.899	(0.871)	277925	30.7739	30.77
$ 45 1,2-Dichloroethane-d4	102	7.394	7.391	(0.934)	56307	29.9019	29.90(Q)
$ 75 Toluene-d8	98	9.599	9.595	(0.871)	828965	31.2592	31.26
* 86 Chlorobenzene-d5	82	11.016	11.022	(1.000)	403326	30.0000	
$ 99 Bromofluorobenzene	95	12.207	12.213	(1.108)	357271	30.2506	30.25
* 112 1,4-Dichlorobenzene-d4	152	13.408	13.414	(1.000)	302116	30.0000	(Q)
121 Naphthalene	128	15.622	15.628	(1.165)	1655	0.10355	0.1036(a)

QC Flag Legend

a - Target compound detected but, quantitated amount
Below Limit Of Quantitation(BLOQ).
Q - Qualifier signal failed the ratio test.

Data File: \\ELABNSH05\TARGET\chem\voa6.i\100511V6.b\1005BLK1.D
Date : 05-OCT-2011 09:43
Client ID: 1J05008-BLK1
Sample Info: 1J05008-BLK1;;;;;
Purge Volume: 5.0
Column phase: RTX-VRX

Instrument: voa6.i
Operator: ADM
Column diameter: 0.25



Data File: \\ELABNSH05\TARGET\chem\voa6.i\100511V6.b\1005BLK1.D

Date : 05-OCT-2011 09:43

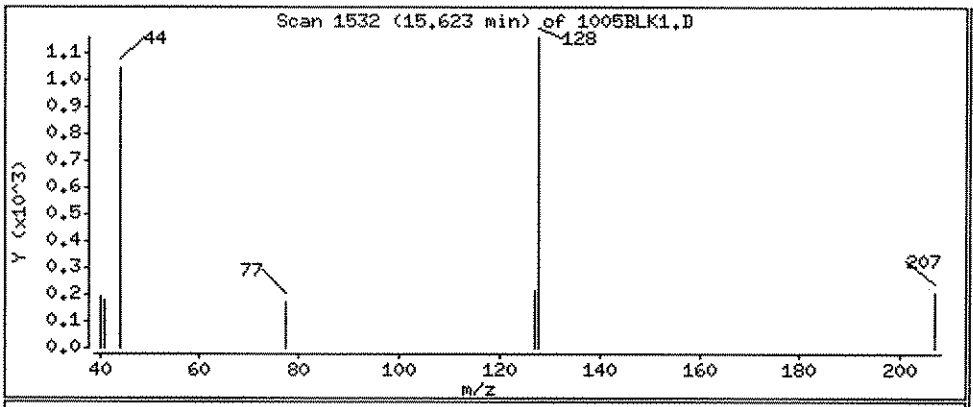
Client ID: 1J05008-BLK1 Instrument: voa6.i

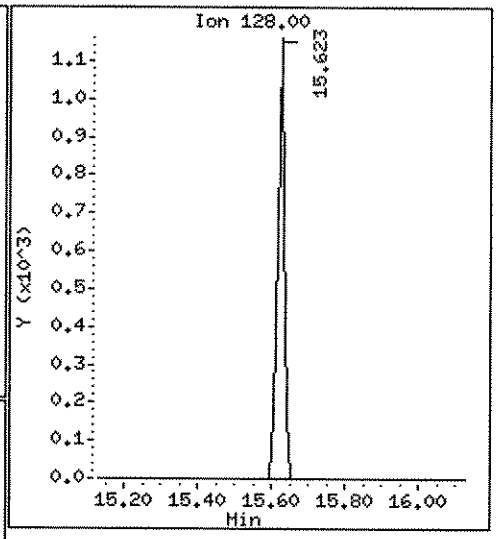
Sample Info: 1J05008-BLK1;;;;;

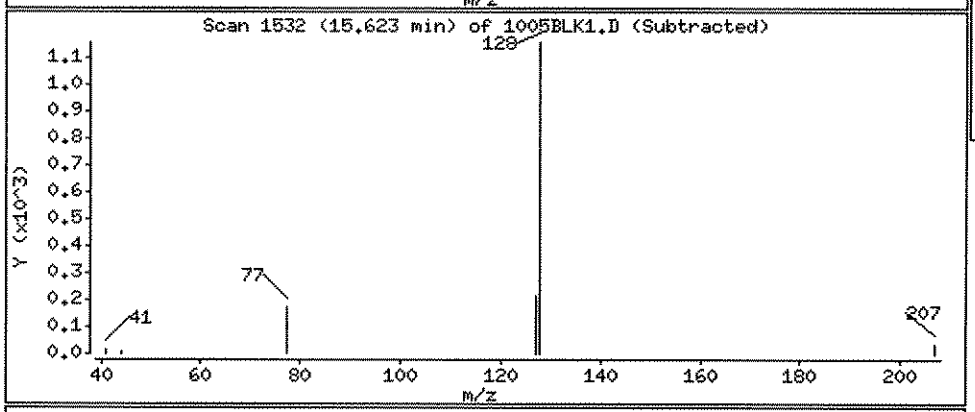
Purge Volume: 5.0 Operator: ADM

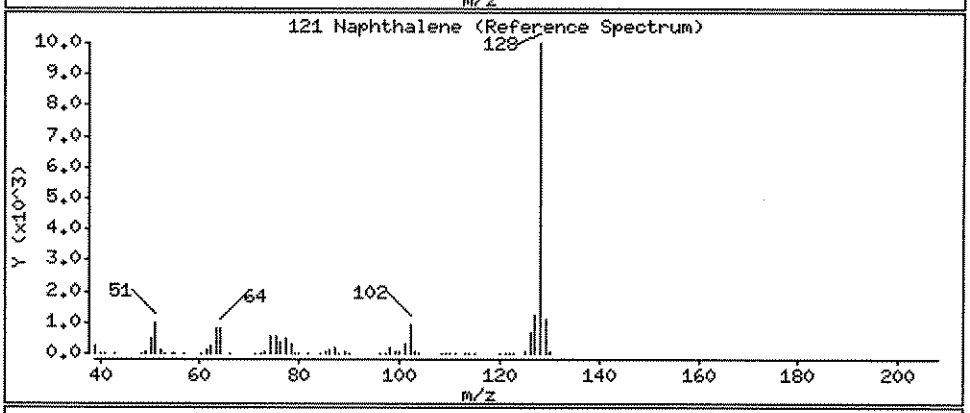
Column phase: RTX-VRX Column diameter: 0.25

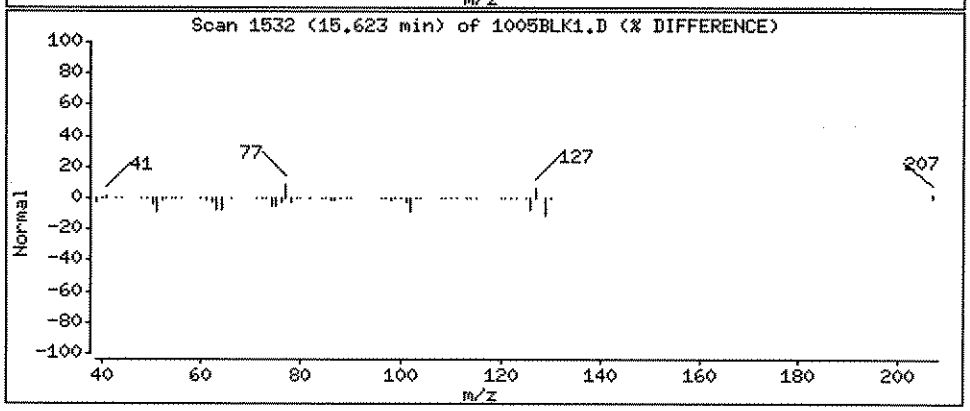
121 Naphthalene Concentration: 0.1036 ug/L











Data File: \\ELABNSH05\TARGET\chem\voa6.i\100511V6.b\1000311.D
Report Date: 06-Oct-2011 08:56

Laboratory Name

Data file : \\ELABNSH05\TARGET\chem\voa6.i\100511V6.b\1000311.D
Lab Smp Id: 1110003-11
Inj Date : 05-OCT-2011 11:03 MS Autotune Date: 13-SEP-2011 09:32
Operator : ADM Inst ID: voa6.i
Smp Info : 1110003-11;;;;;
Misc Info : ;0;;;;8260.sub;
Comment :
Method : \\ELABNSH05\TARGET\chem\voa6.i\100511V6.b\VW6SUR.m
Meth Date : 06-Oct-2011 08:55 ghallquist Quant Type: ISTD
Cal Date : 13-SEP-2011 18:30 Cal File: 0913CAL9.D
Als bottle: 6
Dil Factor: 1.00000
Integrator: HP RTE Compound Sublist: 8260.sub
Target Version: 4.04
Processing Host: TARGET10_VM

Concentration Formula: Amt * DF * 5*Uf/Vo

Name	Value	Description
DF	1.000	Dilution Factor
Uf	1.000	unit correction factor
Vo	5.000	Volume of sample purged (mL)

10/6/11

10-6-11

Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS ON-COLUMN (ug/L)	FINAL (ug/L)
* 55 Fluorobenzene	96	7.918	7.912	(1.000)	892505	30.0000	
9 Acetone	43	3.774	3.788	(0.477)	24243	6.75930	6.759(a)
33 2-Butanone	43	6.215	6.219	(0.785)	56408	8.73361	8.734(a)
$ 41 Dibromofluoromethane	111	6.894	6.899	(0.871)	282030	30.4273	30.43
$ 45 1,2-Dichloroethane-d4	102	7.396	7.391	(0.934)	56806	29.3931	29.39(Q)
$ 75 Toluene-d8	98	9.591	9.595	(0.870)	859461	31.8414	31.84
77 Toluene	92	9.670	9.674	(0.878)	2565	0.14304	0.1430(a)
80 2-Hexanone	43	9.975	9.979	(0.905)	3300	0.36817	0.3682(a)
* 86 Chlorobenzene-d5	82	11.018	11.022	(1.000)	410518	30.0000	
$ 99 Bromofluorobenzene	95	12.209	12.213	(1.108)	361285	30.0545	30.05
* 112 1,4-Dichlorobenzene-d4	152	13.410	13.414	(1.000)	310251	30.0000	(Q)
121 Naphthalene	128	15.624	15.628	(1.165)	2090	0.12734	0.1273(a)

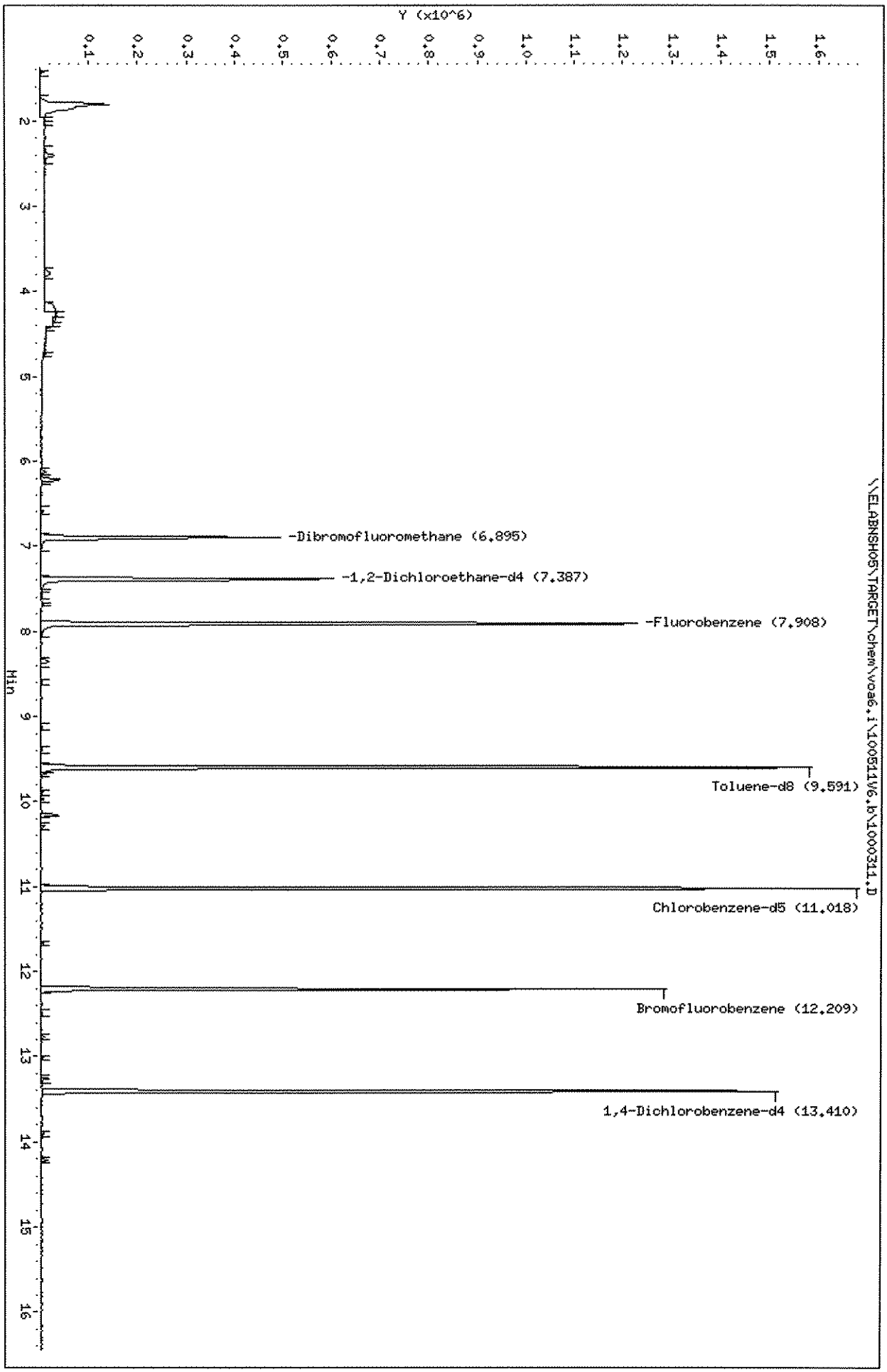
Data File: \\ELABNSH05\TARGET\chem\voa6.i\100511V6.b\1000311.D
Report Date: 06-Oct-2011 08:56

QC Flag Legend

a - Target compound detected but, quantitated amount
    Below Limit Of Quantitation(BLOQ).
Q - Qualifier signal failed the ratio test.

Data File: \\ELABNSHO5\TARGET\chem\voa6.i\100511V6.b\1000311.D
Date : 05-OCT-2011 11:03
Client ID:
Sample Info: 1110003-11;;;;;
Purge Volume: 5.0
Column phase: RTX-VRX

Instrument: voa6.i
Operator: ADH
Column diameter: 0.25



Data File: \\ELABNSH05\TARGET\chem\voa6.i\100511V6.b\1000311.D

Date : 05-OCT-2011 11:03

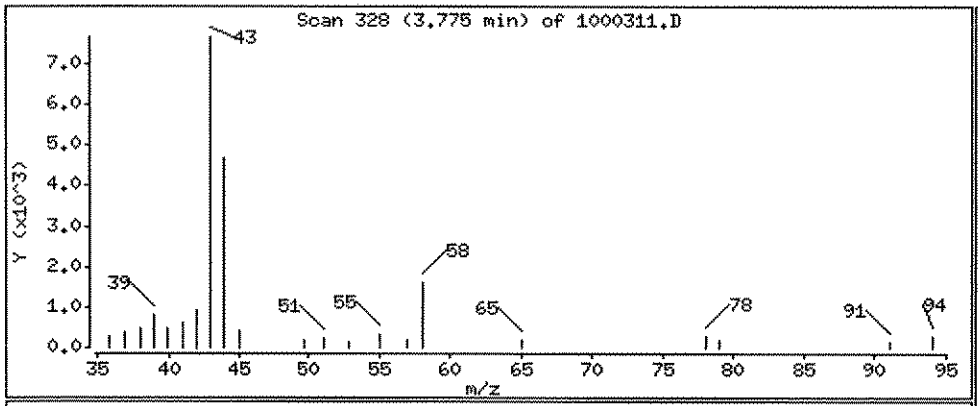
Client ID: | Instrument: voa6.i

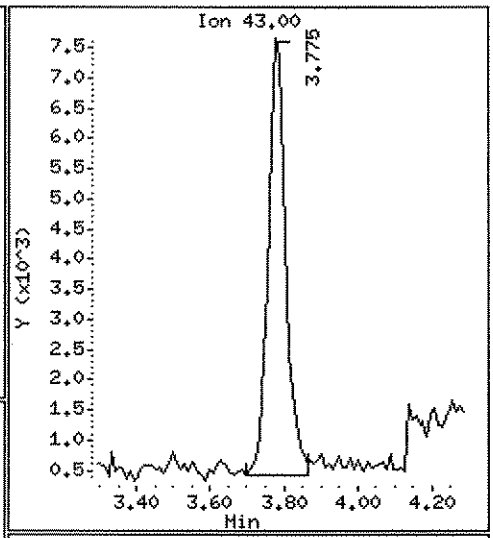
Sample Info: 1110003-11;;;;;

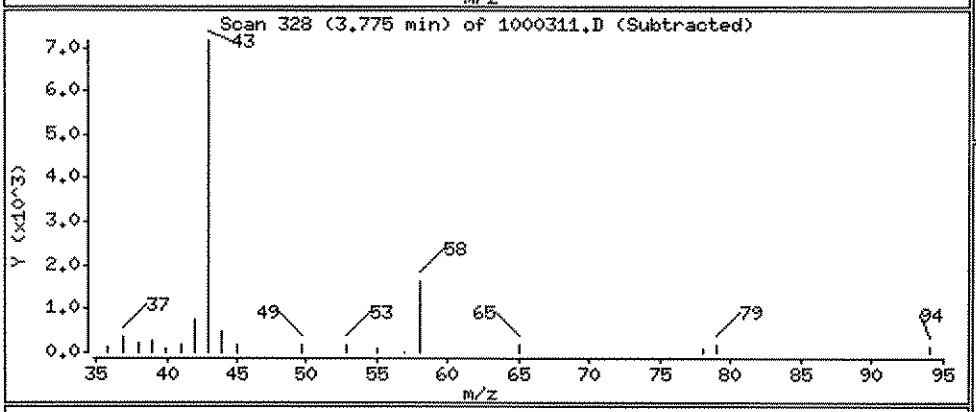
Purge Volume: 5.0 | Operator: ADM

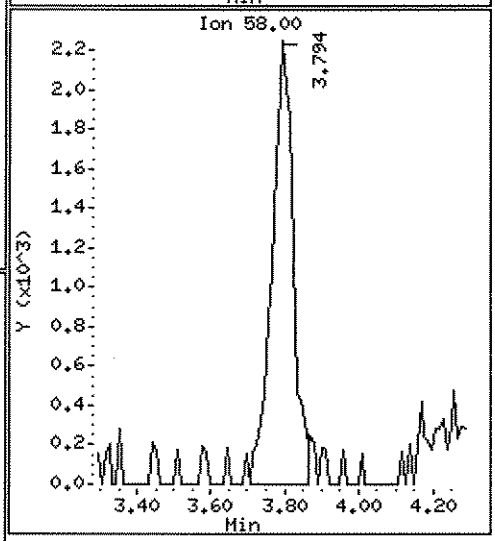
Column phase: RTX-VRX | Column diameter: 0.25

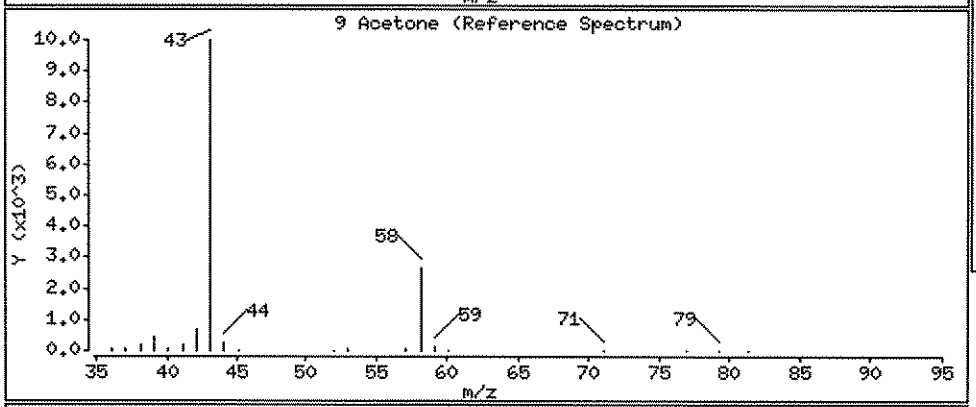
9 Acetone | Concentration: 6.759 ug/L

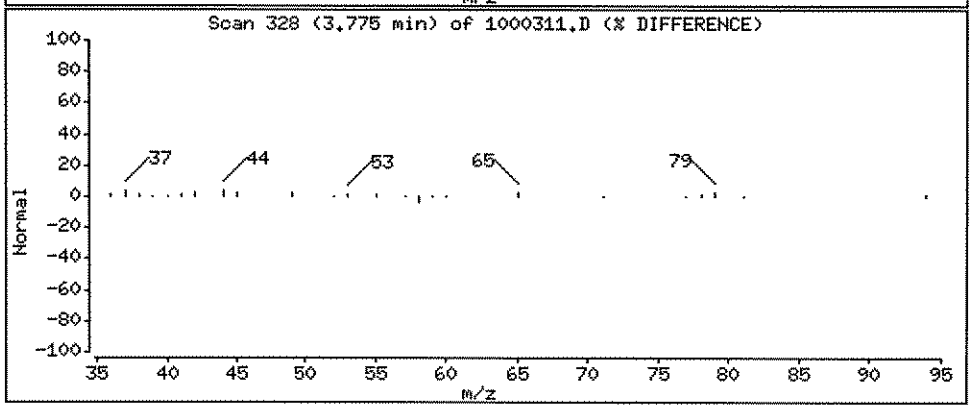












Data File: \\ELABNSH05\TARGET\chem\voa6.i\100511V6.b\1000311.D

Date : 05-OCT-2011 11:03

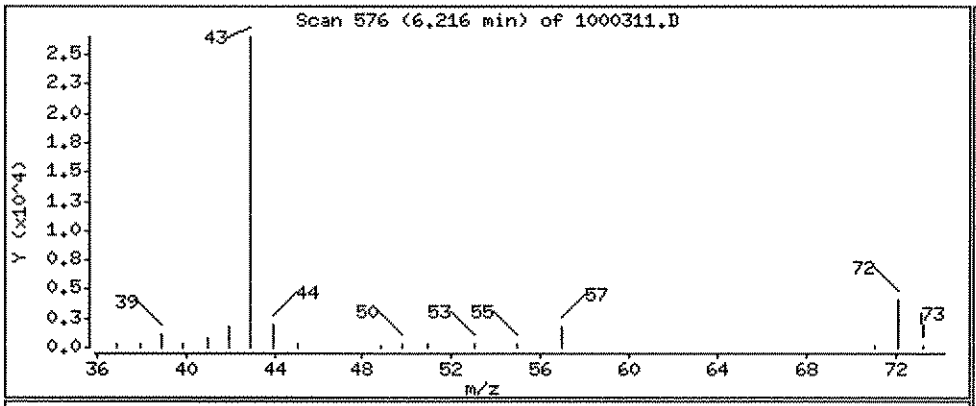
Client ID: Instrument: voa6.i

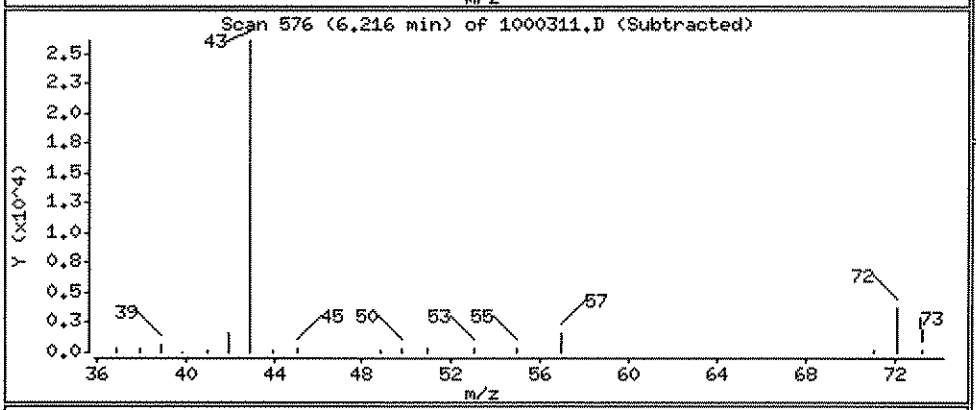
Sample Info: 1110003-11;;;;;

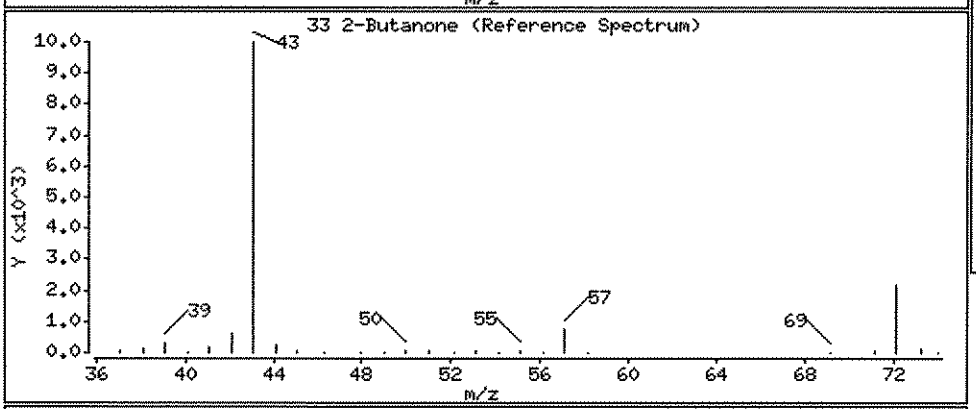
Purge Volume: 5.0 Operator: ADM

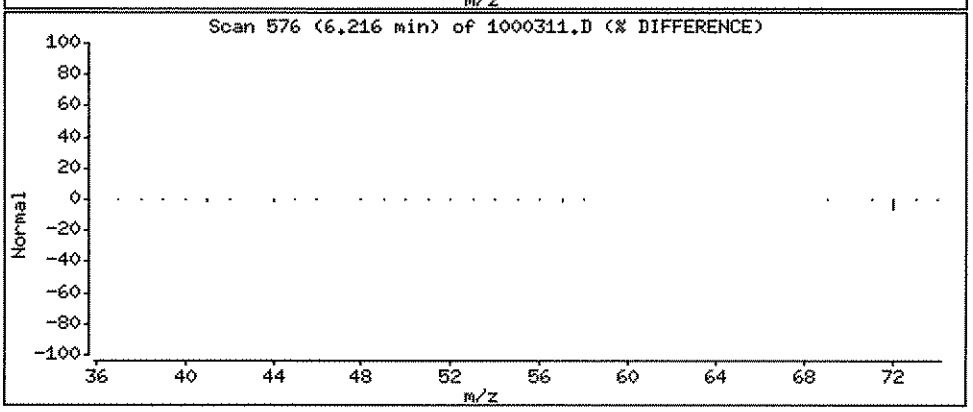
Column phase: RTX-VRX Column diameter: 0.25

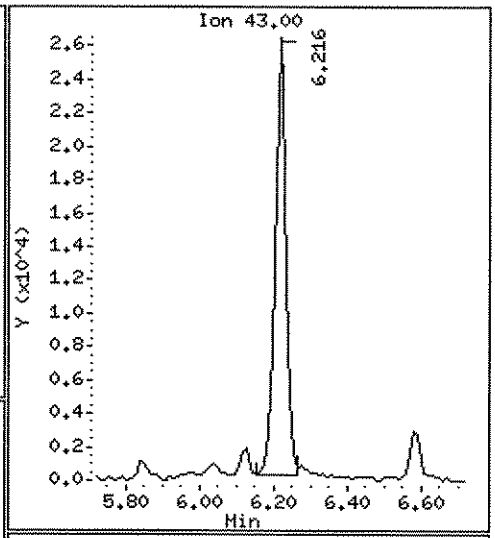
33 2-Butanone Concentration: 8.734 ug/L

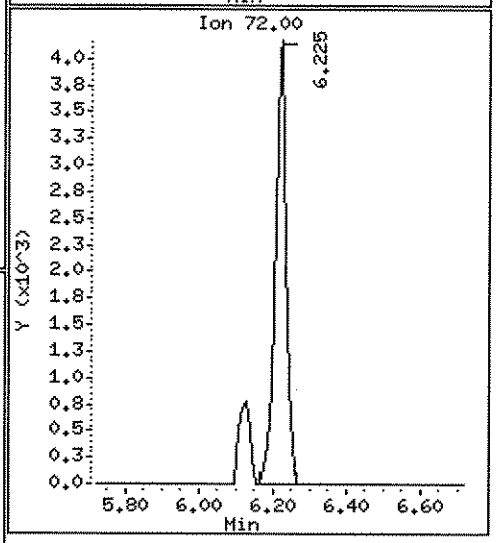












Data File: \\ELABNSH05\TARGET\chem\voa6.i\100511V6.b\1000311.D

Date : 05-OCT-2011 11:03

Client ID:

Instrument: voa6.i

Sample Info: 1110003-11;;;;;

Purge Volume: 5.0

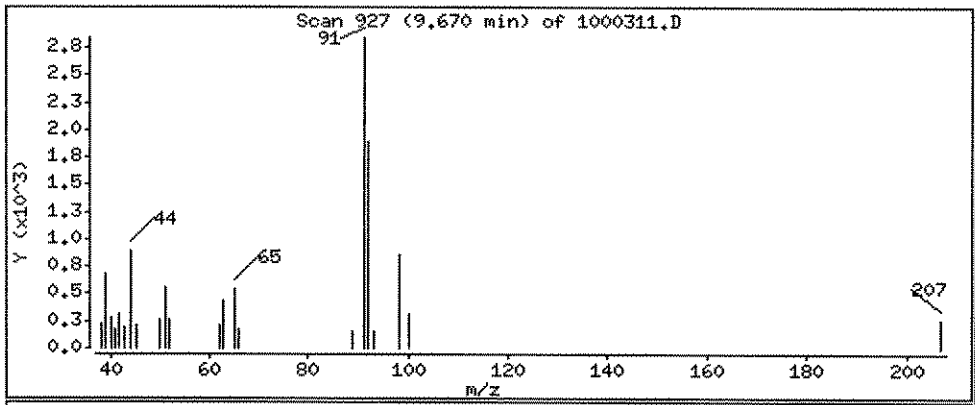
Operator: ADM

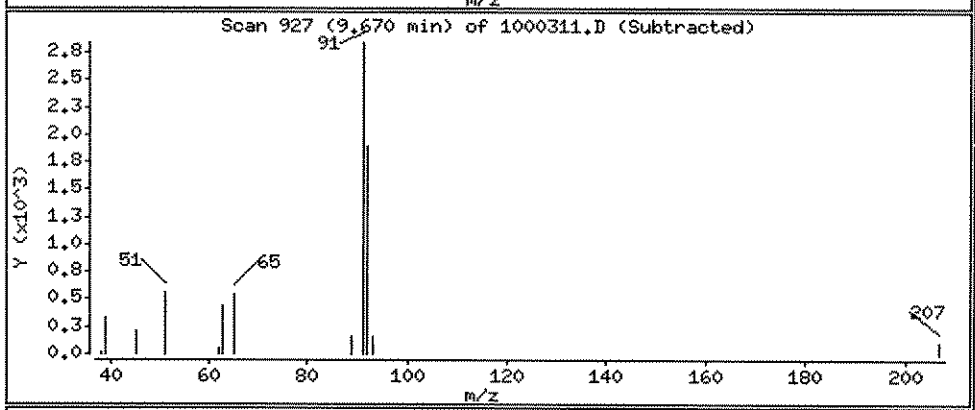
Column phase: RTX-VRX

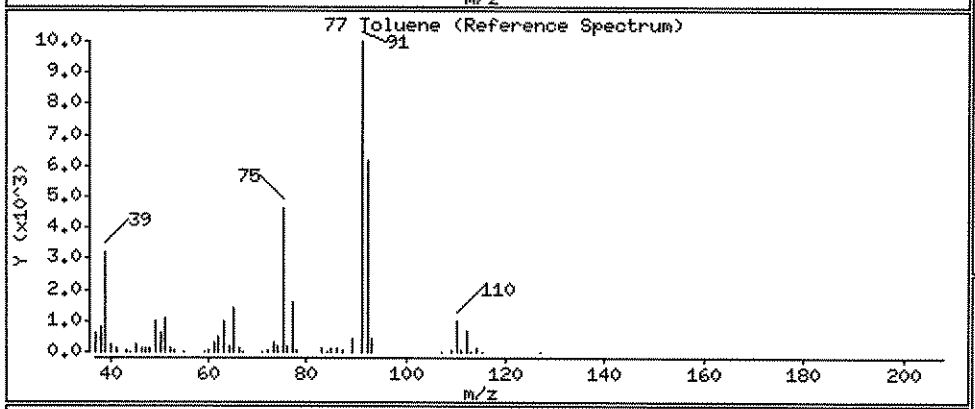
Column diameter: 0.25

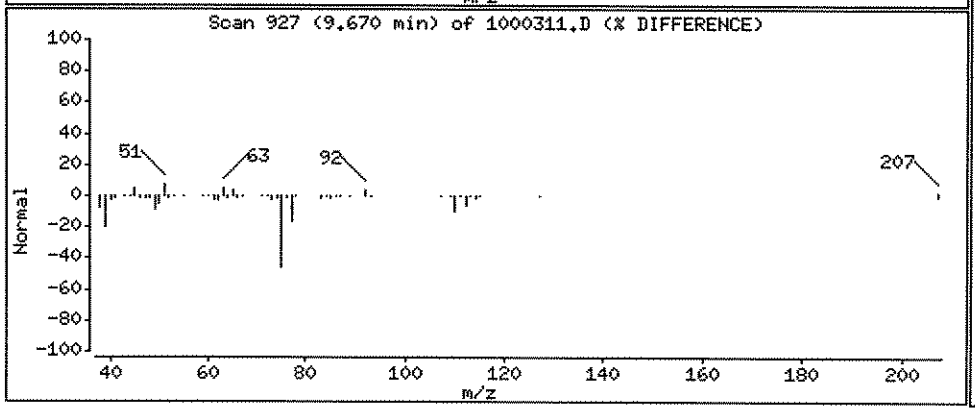
77 Toluene

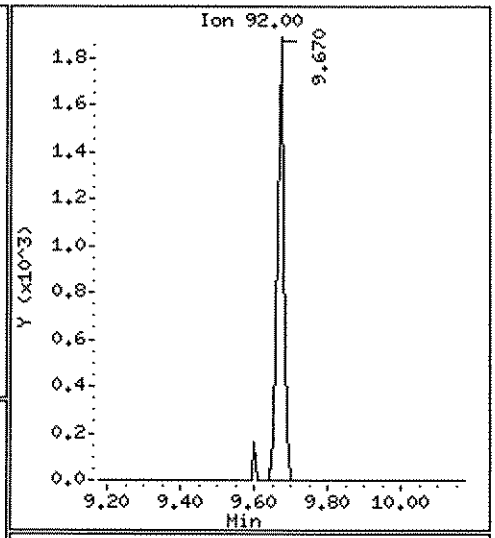
Concentration: 0.1430 ug/L

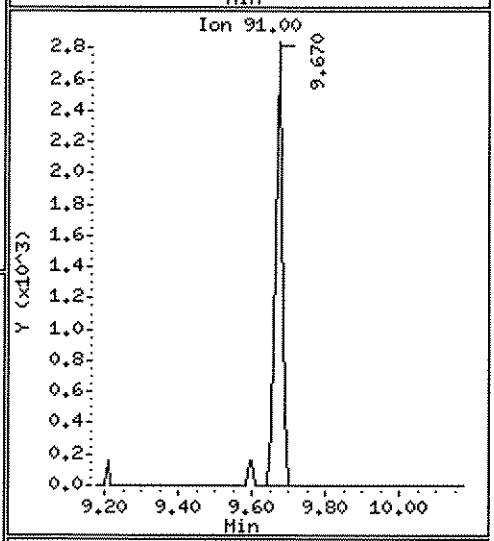


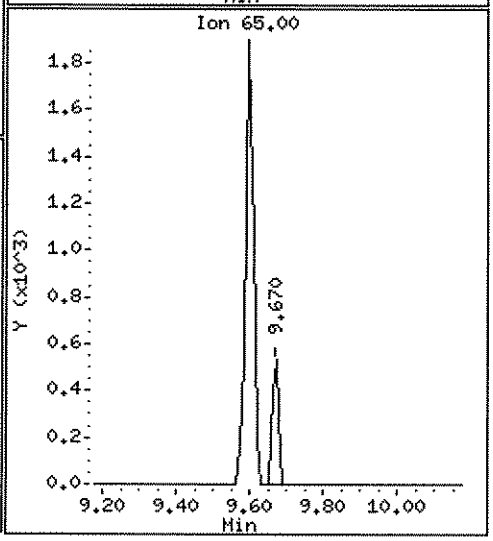












Data File: \\ELABNSH05\TARGET\chem\voa6.i\100511V6.b\1000311.D

Date : 05-OCT-2011 11:03

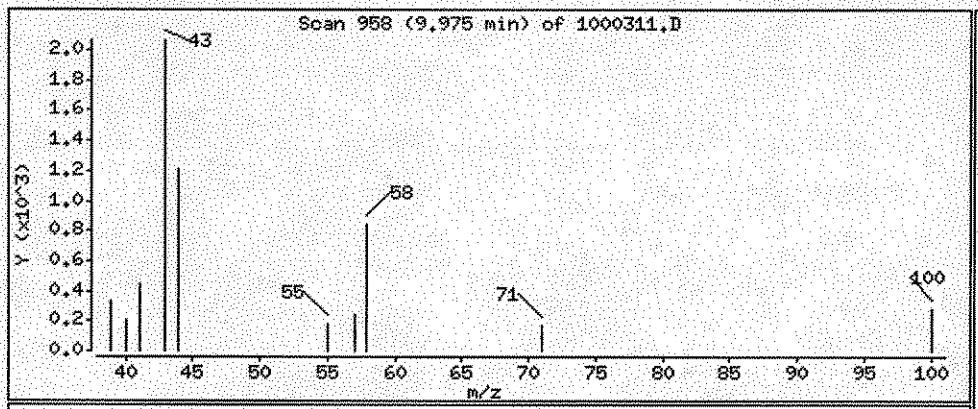
Client ID: Instrument: voa6.i

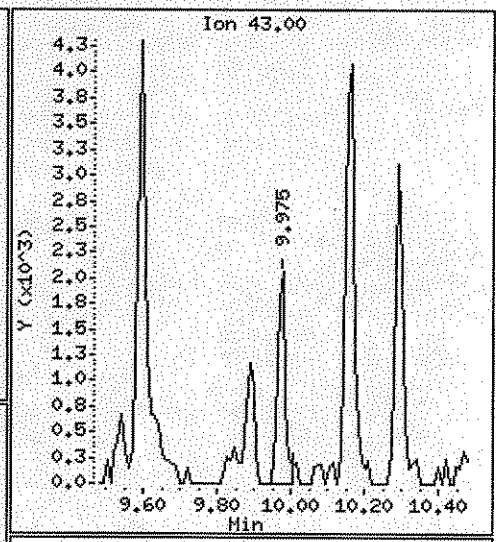
Sample Info: 1110003-11;;;;;

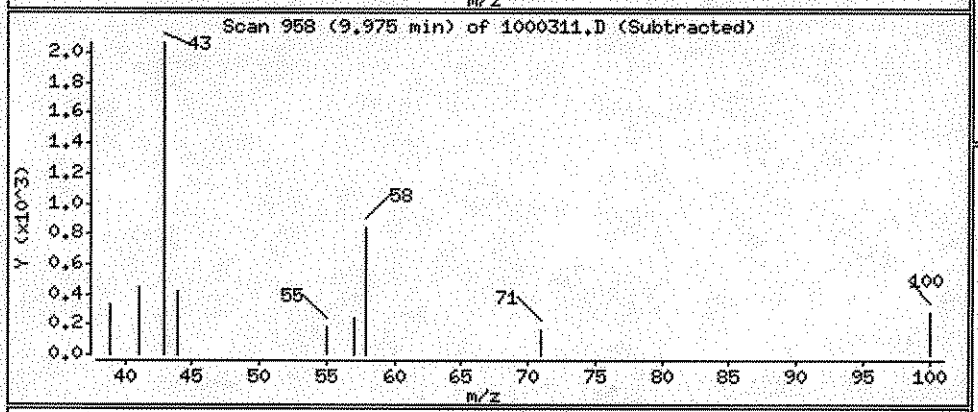
Purge Volume: 5.0 Operator: ADM

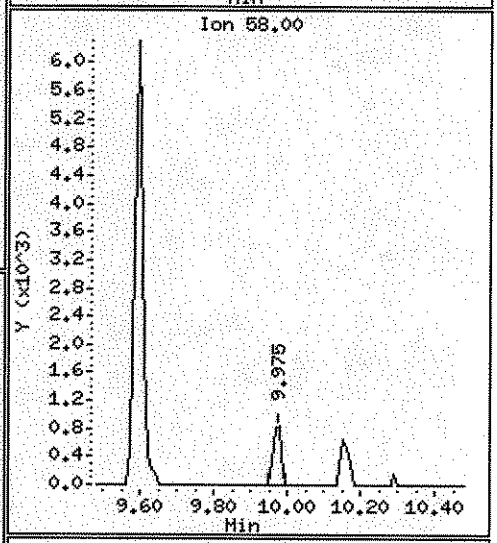
Column phase: RTX-VRX Column diameter: 0.25

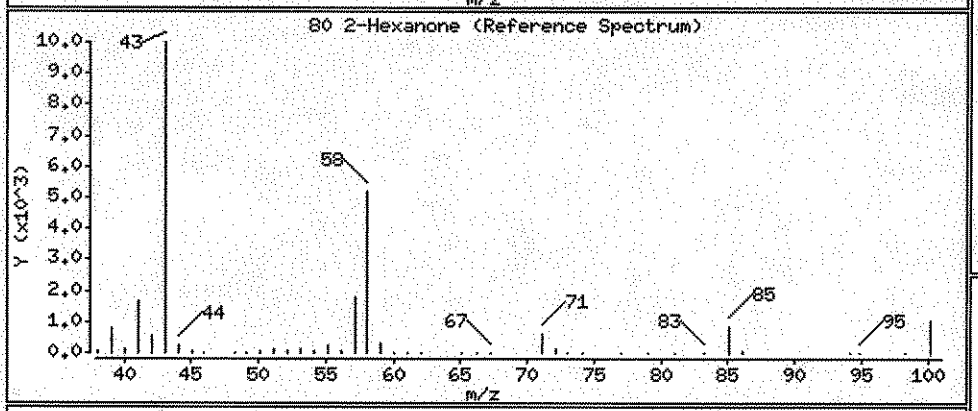
80 2-Hexanone Concentration: 0.3682 ug/L

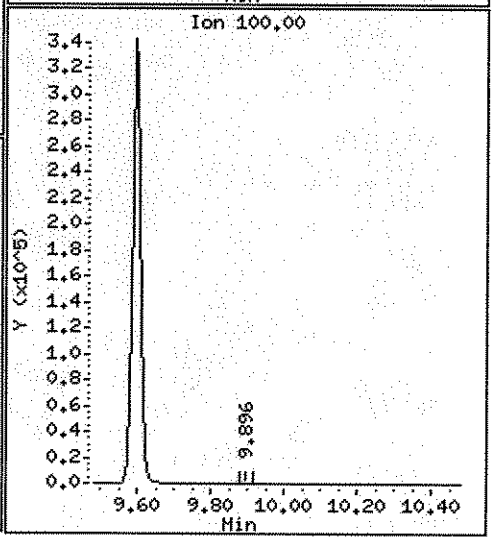


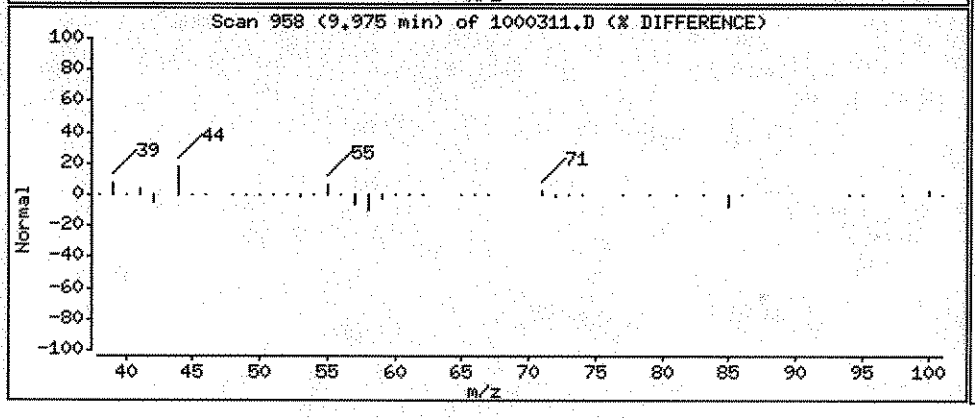












Data File: \\ELABNSH05\TARGET\chem\voa6.i\100511V6.b\1000311.D

Date : 05-OCT-2011 11:03

Client ID:

Instrument: voa6.i

Sample Info: 1110003-11;;;;;

Purge Volume: 5.0

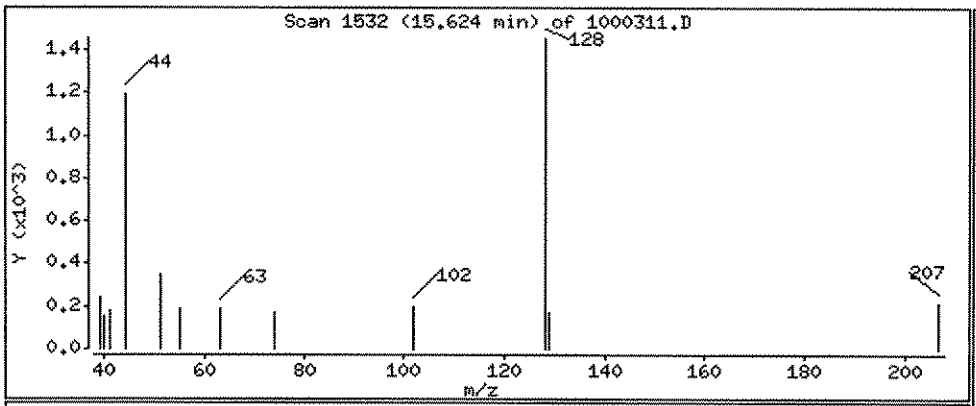
Operator: ADM

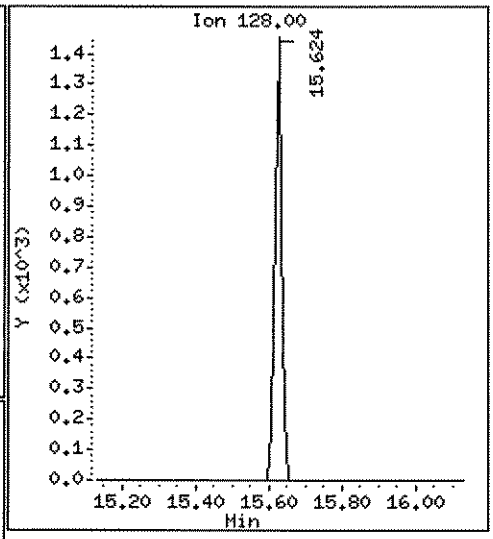
Column phase: RTX-VRX

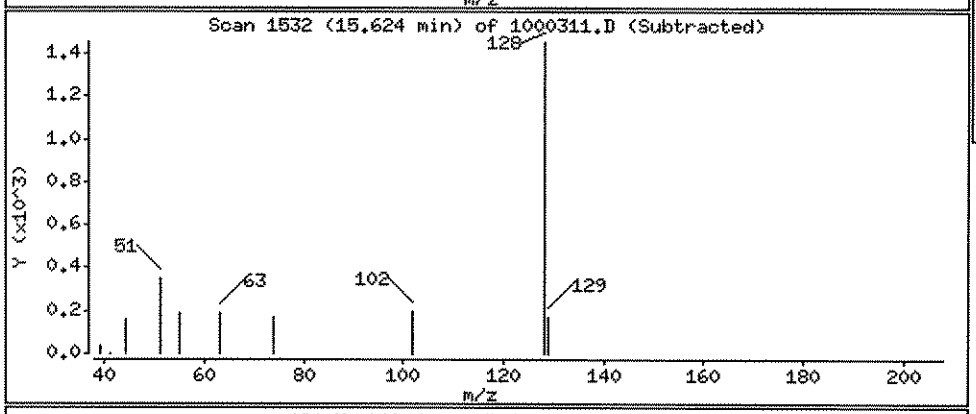
Column diameter: 0.25

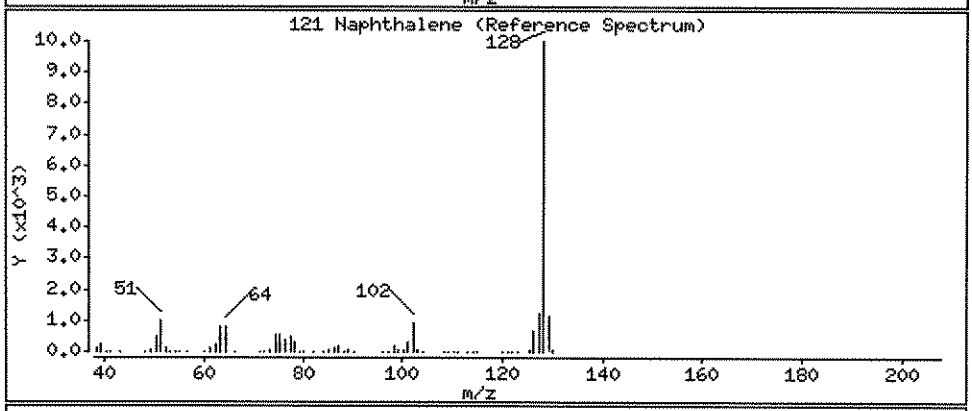
121 Naphthalene

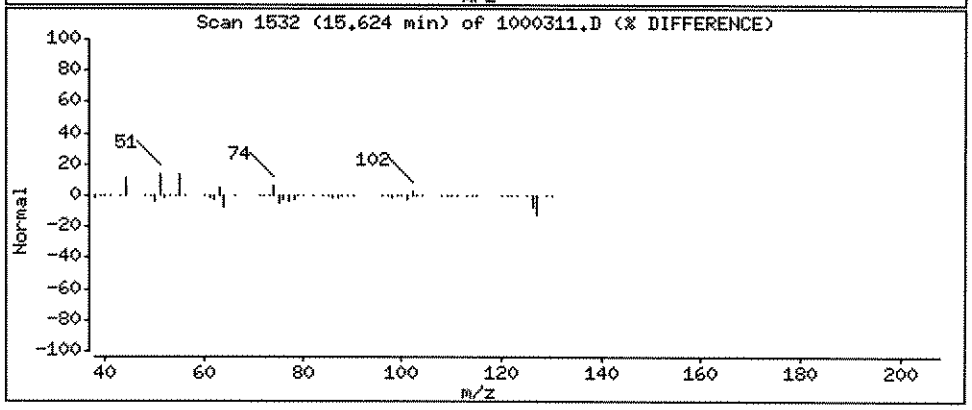
Concentration: 0.1273 ug/L











Data File: \\ELABNSH05\TARGET\chem\voa6.i\100511V6.b\1000316.D
Report Date: 06-Oct-2011 08:57

Laboratory Name

Data file : \\ELABNSH05\TARGET\chem\voa6.i\100511V6.b\1000316.D
Lab Smp Id: 1110003-16
Inj Date : 05-OCT-2011 11:29 MS Autotune Date: 13-SEP-2011 09:32
Operator : ADM Inst ID: voa6.i
Smp Info : 1110003-16;;;;;
Misc Info : ;0;;;;8260.sub;
Comment :
Method : \\ELABNSH05\TARGET\chem\voa6.i\100511V6.b\VW6SUR.m
Meth Date : 06-Oct-2011 08:55 ghallquist Quant Type: ISTD
Cal Date : 13-SEP-2011 18:30 Cal File: 0913CAL9.D
Als bottle: 7
Dil Factor: 1.00000
Integrator: HP RTE Compound Sublist: 8260.sub
Target Version: 4.04
Processing Host: TARGET10_VM

Concentration Formula: Amt * DF * 5*Uf/Vo

Name	Value	Description
DF	1.000	Dilution Factor
Uf	1.000	unit correction factor
Vo	5.000	Volume of sample purged (mL)

10/6/11

10-6-11

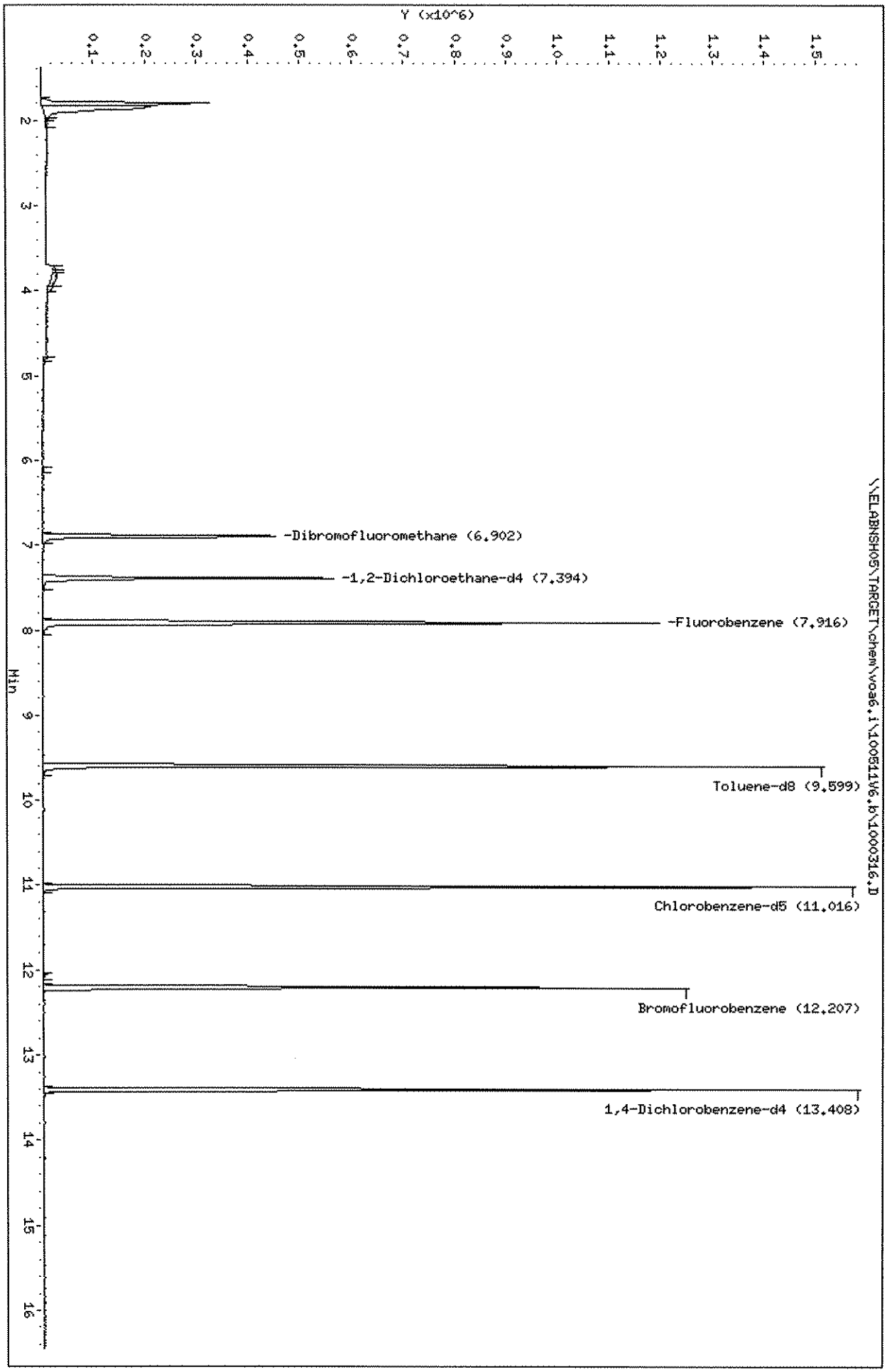
Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS ON-COLUMN (ug/L)	FINAL (ug/L)
* 55 Fluorobenzene	96	7.915	7.912	(1.000)	842893	30.0000	
$ 41 Dibromofluoromethane	111	6.902	6.899	(0.872)	269598	30.7981	30.80
$ 45 1,2-Dichloroethane-d4	102	7.394	7.391	(0.934)	53635	29.3858	29.38(Q)
$ 75 Toluene-d8	98	9.598	9.595	(0.871)	817104	31.5656	31.56
* 86 Chlorobenzene-d5	82	11.016	11.022	(1.000)	393696	30.0000	
$ 99 Bromofluorobenzene	95	12.207	12.213	(1.108)	350896	30.4375	30.44
* 112 1,4-Dichlorobenzene-d4	152	13.407	13.414	(1.000)	293442	30.0000	(Q)

QC Flag Legend

Q - Qualifier signal failed the ratio test.

Data File: \\ELABNSH05\TARGET\chem\voa6.i\1005111V6.b\1000316.D
Date : 05-OCT-2011 11:29
Client ID:
Sample Info: 1110003-16;;;;;
Purge Volume: 5.0
Column phase: RTX-VRX

Instrument: voa6.i
Operator: ADH
Column diameter: 0.25



Data File: \\ELABNSH05\TARGET\chem\voa6.i\100511V6.b\1000301.D
Report Date: 06-Oct-2011 08:57

Laboratory Name

Data file : \\ELABNSH05\TARGET\chem\voa6.i\100511V6.b\1000301.D
Lab Smp Id: 1110003-01
Inj Date : 05-OCT-2011 12:49 MS Autotune Date: 13-SEP-2011 09:32
Operator : ADM Inst ID: voa6.i
Smp Info : 1110003-01;;;;;
Misc Info : ;0;;;;8260.sub;
Comment :
Method : \\ELABNSH05\TARGET\chem\voa6.i\100511V6.b\VW6SUR.m
Meth Date : 06-Oct-2011 08:55 ghallquist Quant Type: ISTD
Cal Date : 13-SEP-2011 18:30 Cal File: 0913CAL9.D
Als bottle: 10
Dil Factor: 1.00000
Integrator: HP RTE Compound Sublist: 8260.sub
Target Version: 4.04
Processing Host: TARGET10_VM

Concentration Formula: Amt * DF * 5*Uf/Vo

Name	Value	Description
DF	1.000	Dilution Factor
Uf	1.000	unit correction factor
Vo	5.000	Volume of sample purged (mL)

10/6/11

10-6-11

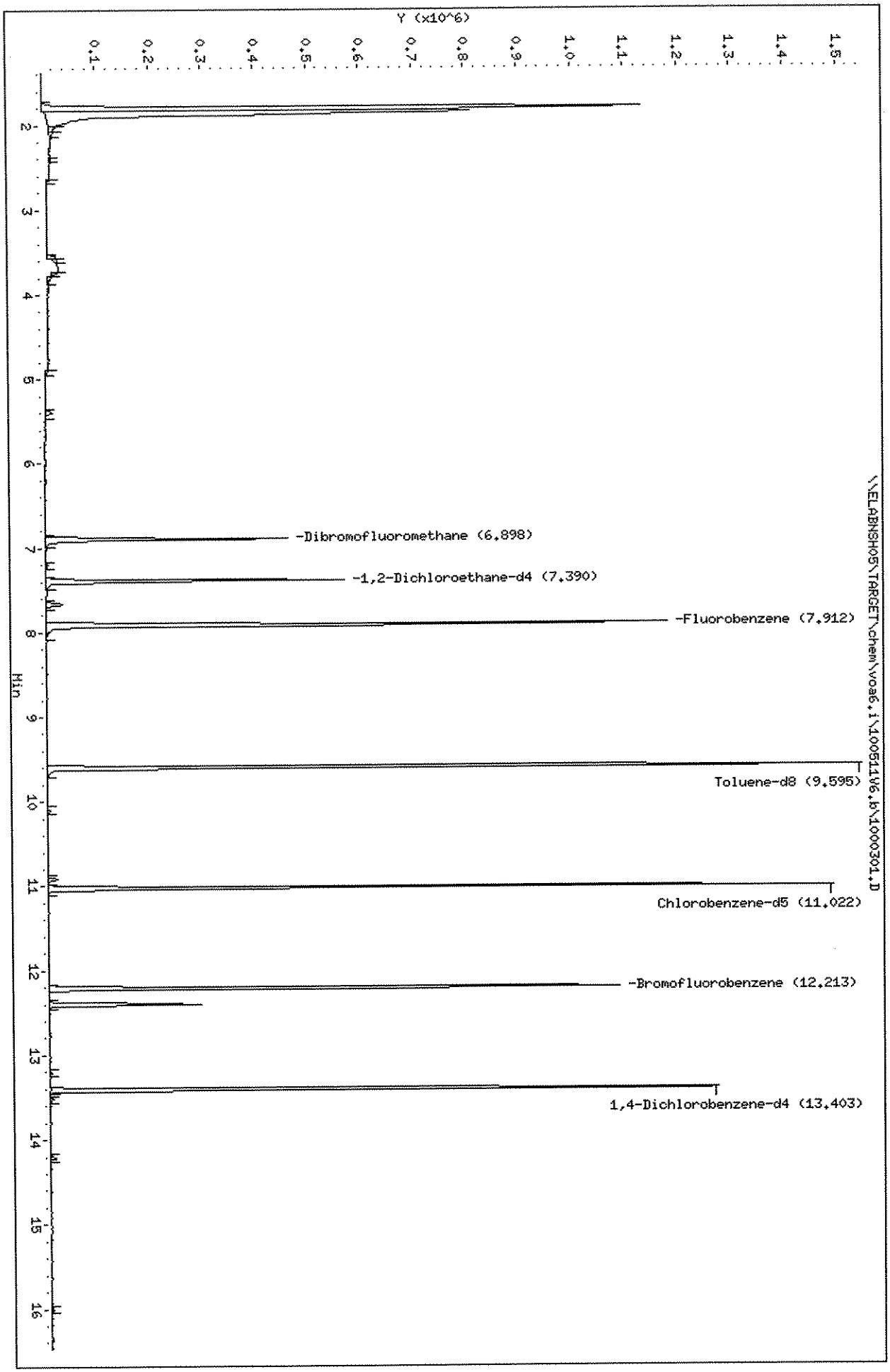
Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS ON-COLUMN (ug/L)	FINAL (ug/L)
* 55 Fluorobenzene	96	7.911	7.912	(1.000)	796615	30.0000	
9 Acetone	43	3.787	3.788	(0.479)	14591	4.55788	4.558(a)
$ 41 Dibromofluoromethane	111	6.897	6.899	(0.872)	257304	31.1012	31.10
$ 45 1,2-Dichloroethane-d4	102	7.389	7.391	(0.934)	48326	28.0152	28.02(Q)
$ 75 Toluene-d8	98	9.594	9.595	(0.871)	771931	32.4483	32.45
* 86 Chlorobenzene-d5	82	11.021	11.022	(1.000)	361813	30.0000	
$ 99 Bromofluorobenzene	95	12.212	12.213	(1.108)	323465	30.5306	30.53
* 112 1,4-Dichlorobenzene-d4	152	13.413	13.414	(1.000)	265483	30.0000	(Q)

QC Flag Legend

a - Target compound detected but, quantitated amount
Below Limit Of Quantitation(BLOQ).
Q - Qualifier signal failed the ratio test.

Data File: \\ELABNSH05\TARGET\chem\voa6.i\1005511V6.b\1000301.D
Date : 05-OCT-2011 12:49
Client ID:
Sample Info: 1110003-01;;;;;
Purge Volume: 5.0
Column phase: RTX-VRX

Instrument: voa6.i
Operator: ADH
Column diameter: 0.25



Data File: \\ELABNSH05\TARGET\chem\voa6.i\100511V6.b\1000301.D

Date : 05-OCT-2011 12:49

Client ID:

Instrument: voa6.i

Sample Info: 1110003-01;;;;;

Purge Volume: 5.0

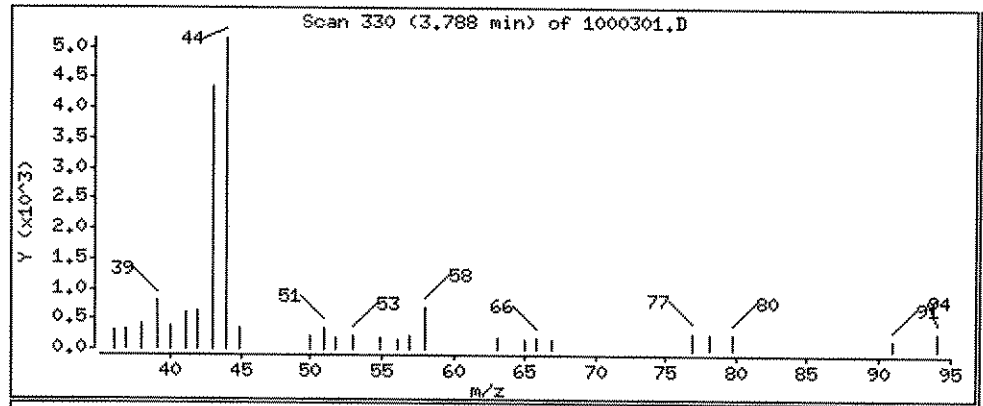
Operator: ADM

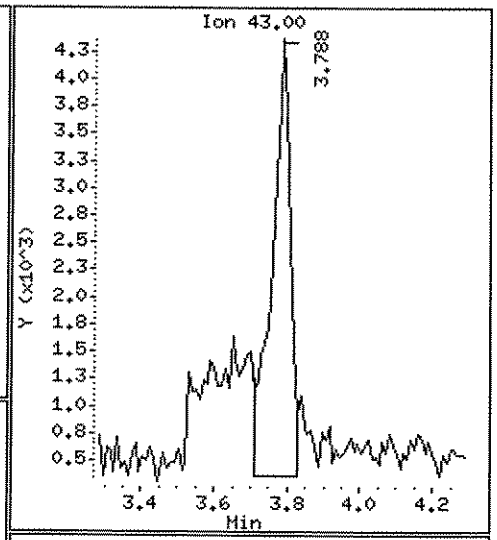
Column phase: RTX-VRX

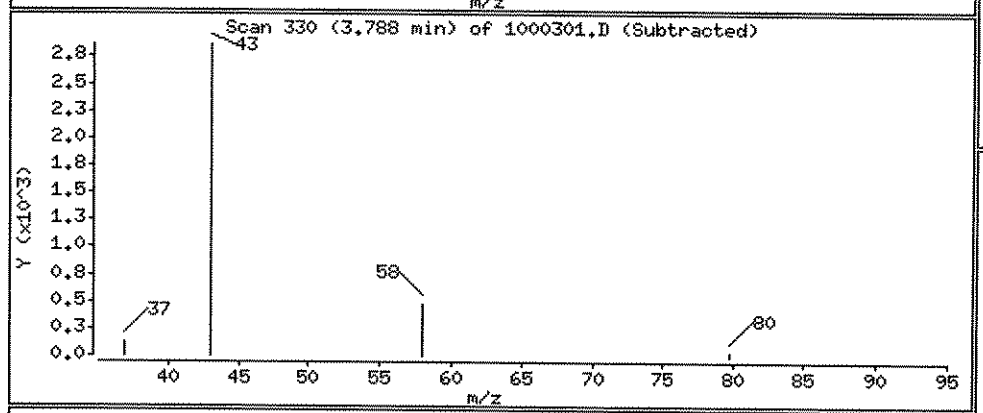
Column diameter: 0.25

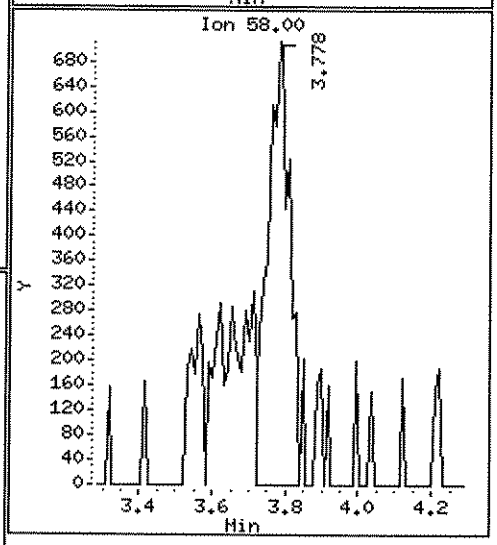
9 Acetone

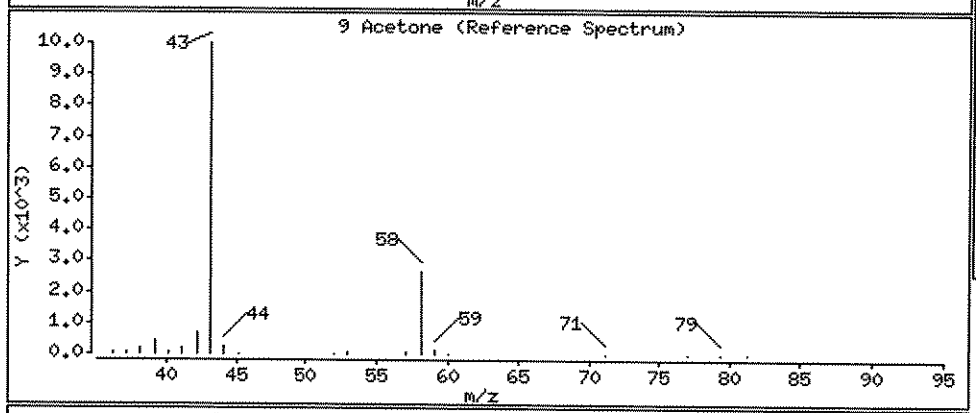
Concentration: 4.558 ug/L

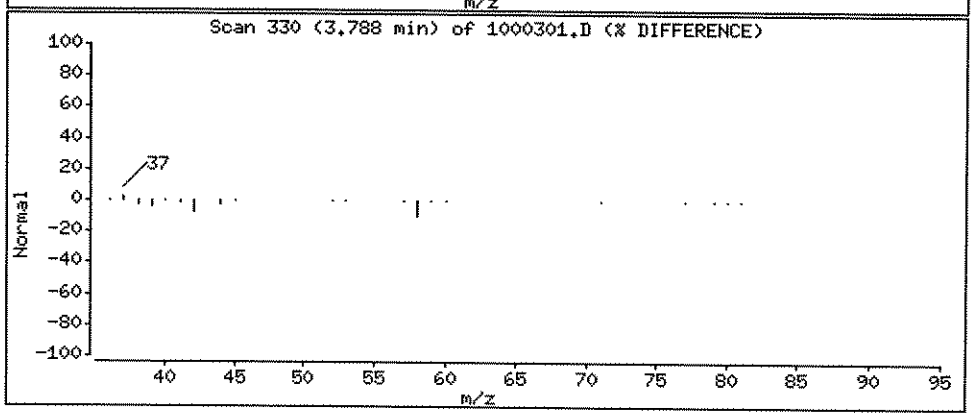












Data File: \\ELABNSH05\TARGET\chem\voa6.i\100511V6.b\1000303.D
Report Date: 06-Oct-2011 08:57

Laboratory Name

Data file : \\ELABNSH05\TARGET\chem\voa6.i\100511V6.b\1000303.D
Lab Smp Id: 1110003-03
Inj Date : 05-OCT-2011 13:16 MS Autotune Date: 13-SEP-2011 09:32
Operator : ADM Inst ID: voa6.i
Smp Info : 1110003-03;;;;
Misc Info : ;0;;;;8260.sub;
Comment :
Method : \\ELABNSH05\TARGET\chem\voa6.i\100511V6.b\VW6SUR.m
Meth Date : 06-Oct-2011 08:55 ghallquist Quant Type: ISTD
Cal Date : 13-SEP-2011 18:30 Cal File: 0913CAL9.D
Als bottle: 11
Dil Factor: 1.00000
Integrator: HP RTE Compound Sublist: 8260.sub
Target Version: 4.04
Processing Host: TARGET10_VM

Concentration Formula: Amt * DF * 5*Uf/Vo

Name	Value	Description
DF	1.000	Dilution Factor
Uf	1.000	unit correction factor
Vo	5.000	Volume of sample purged (mL)

10/10/11

Pam 10-6-11

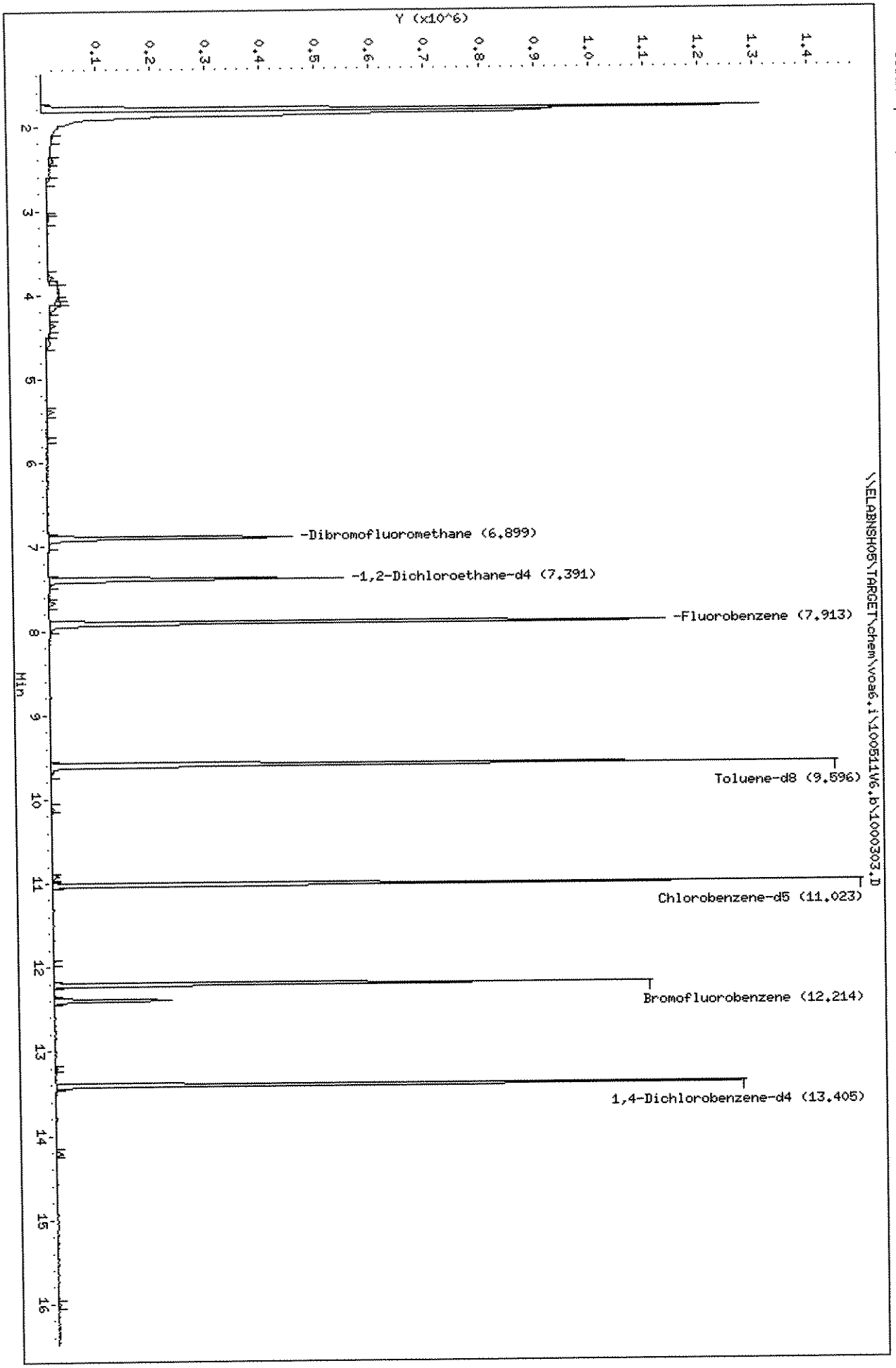
Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS ON-COLUMN (ug/L)	FINAL (ug/L)
* 55 Fluorobenzene	96	7.912	7.912	(1.000)	784712	30.0000	
9 Acetone	43	3.788	3.788	(0.479)	19564	6.20402	6.204(a)
$ 41 Dibromofluoromethane	111	6.898	6.899	(0.872)	251255	30.8307	30.83
$ 45 1,2-Dichloroethane-d4	102	7.391	7.391	(0.934)	47546	27.9811	27.98(Q)
$ 75 Toluene-d8	98	9.595	9.595	(0.871)	755920	31.6728	31.67
* 86 Chlorobenzene-d5	82	11.022	11.022	(1.000)	362984	30.0000	
$ 99 Bromofluorobenzene	95	12.213	12.213	(1.108)	321929	30.2876	30.29
* 112 1,4-Dichlorobenzene-d4	152	13.414	13.414	(1.000)	268003	30.0000	(Q)

QC Flag Legend

a - Target compound detected but, quantitated amount
Below Limit Of Quantitation(BLOQ).
Q - Qualifier signal failed the ratio test.

Data File: \\ELABNSHO5\TARGET\chem\voa6.i\100511V6.b\1000303.D
Date : 05-OCT-2011 13:16
Client ID:
Sample Info: 1110003-03;;;;
Purge Volume: 5.0
Column phase: RTX-VRX

Instrument: voa6.i
Operator: ADM
Column diameter: 0.25



Data File: \\ELABNSH05\TARGET\chem\voa6.i\100511V6.b\1000303.D

Date : 05-OCT-2011 13:16

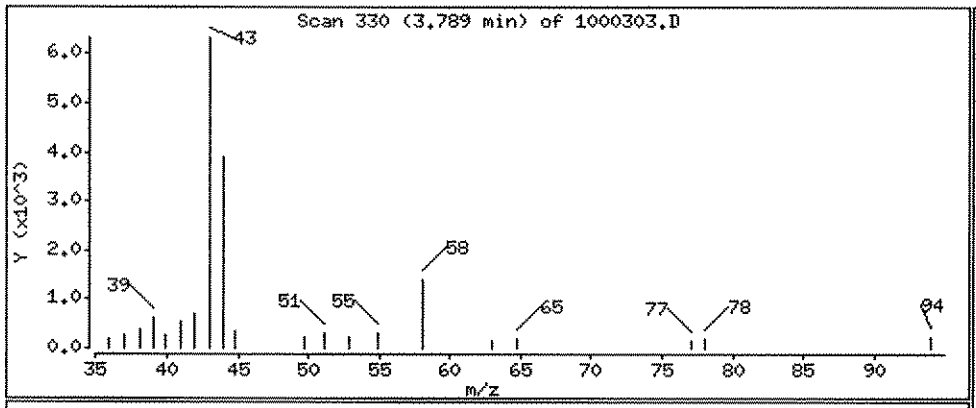
Client ID: Instrument: voa6.i

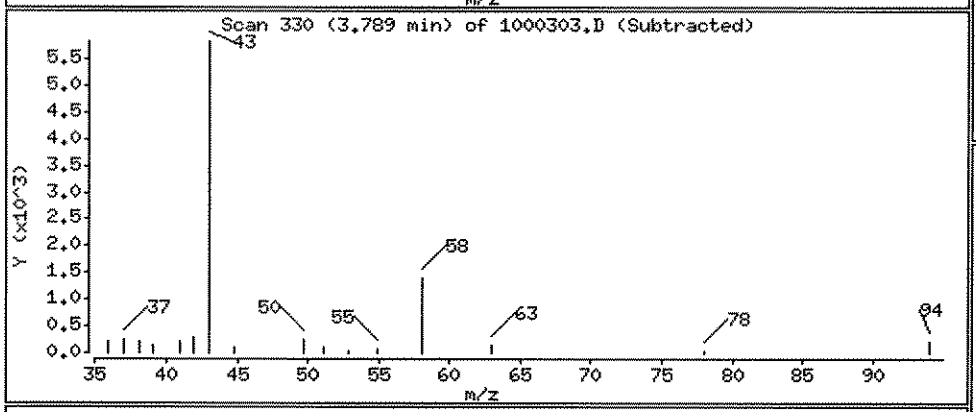
Sample Info: 1110003-03;;;;

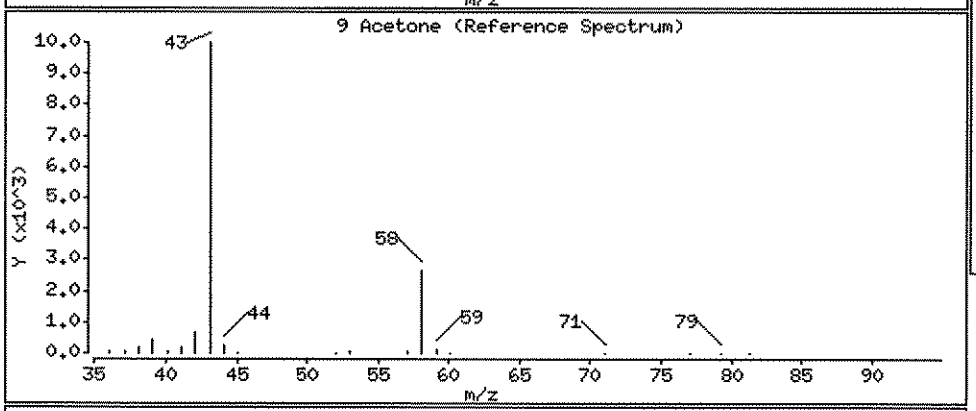
Purge Volume: 5.0 Operator: ADM

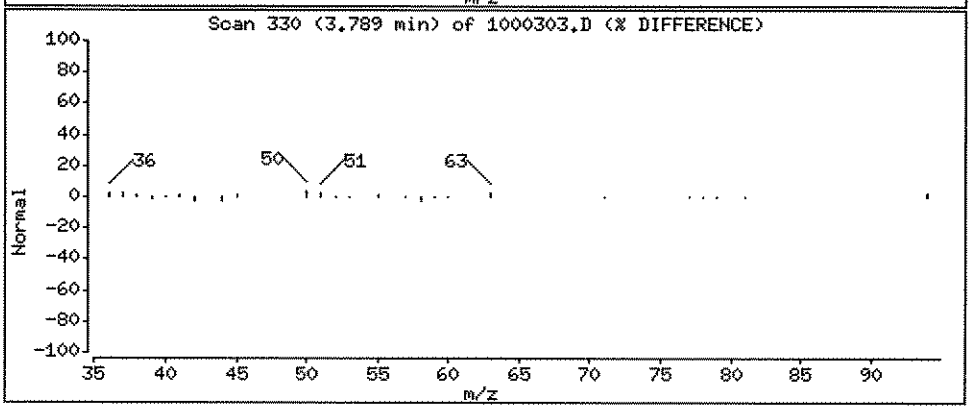
Column phase: RTX-VRX Column diameter: 0.25

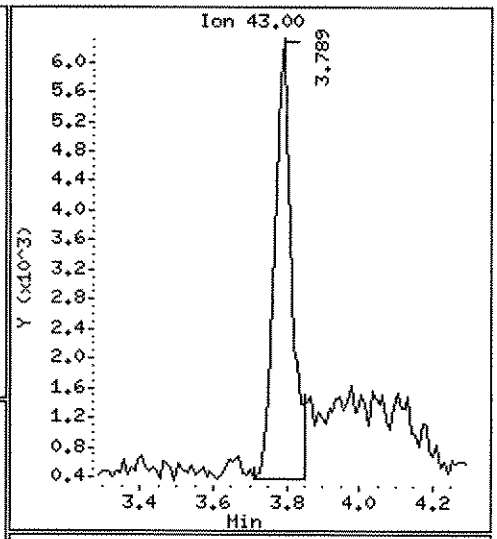
9 Acetone Concentration: 6.204 ug/L

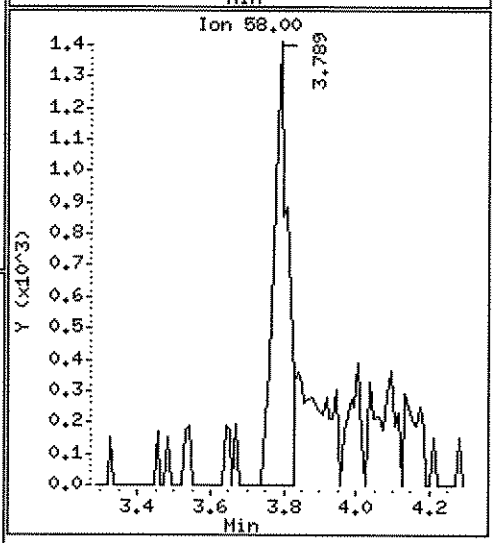












Data File: \\ELABNSH05\TARGET\chem\voa6.i\100511V6.b\1000305.D
Report Date: 06-Oct-2011 08:57

Laboratory Name

Data file : \\ELABNSH05\TARGET\chem\voa6.i\100511V6.b\1000305.D
Lab Smp Id: 1110003-05
Inj Date : 05-OCT-2011 13:43 MS Autotune Date: 13-SEP-2011 09:32
Operator : ADM Inst ID: voa6.i
Smp Info : 1110003-05;;;;
Misc Info : ;0;;;;8260.sub;
Comment :
Method : \\ELABNSH05\TARGET\chem\voa6.i\100511V6.b\VW6SUR.m
Meth Date : 06-Oct-2011 08:55 ghallquist Quant Type: ISTD
Cal Date : 13-SEP-2011 18:30 Cal File: 0913CAL9.D
Als bottle: 12
Dil Factor: 1.00000
Integrator: HP RTE Compound Sublist: 8260.sub
Target Version: 4.04
Processing Host: TARGET10_VM

Concentration Formula: Amt * DF * 5*Uf/Vo

Name	Value	Description
DF	1.000	Dilution Factor
Uf	1.000	unit correction factor
Vo	5.000	Volume of sample purged (mL)

10/10/11

10-6-11

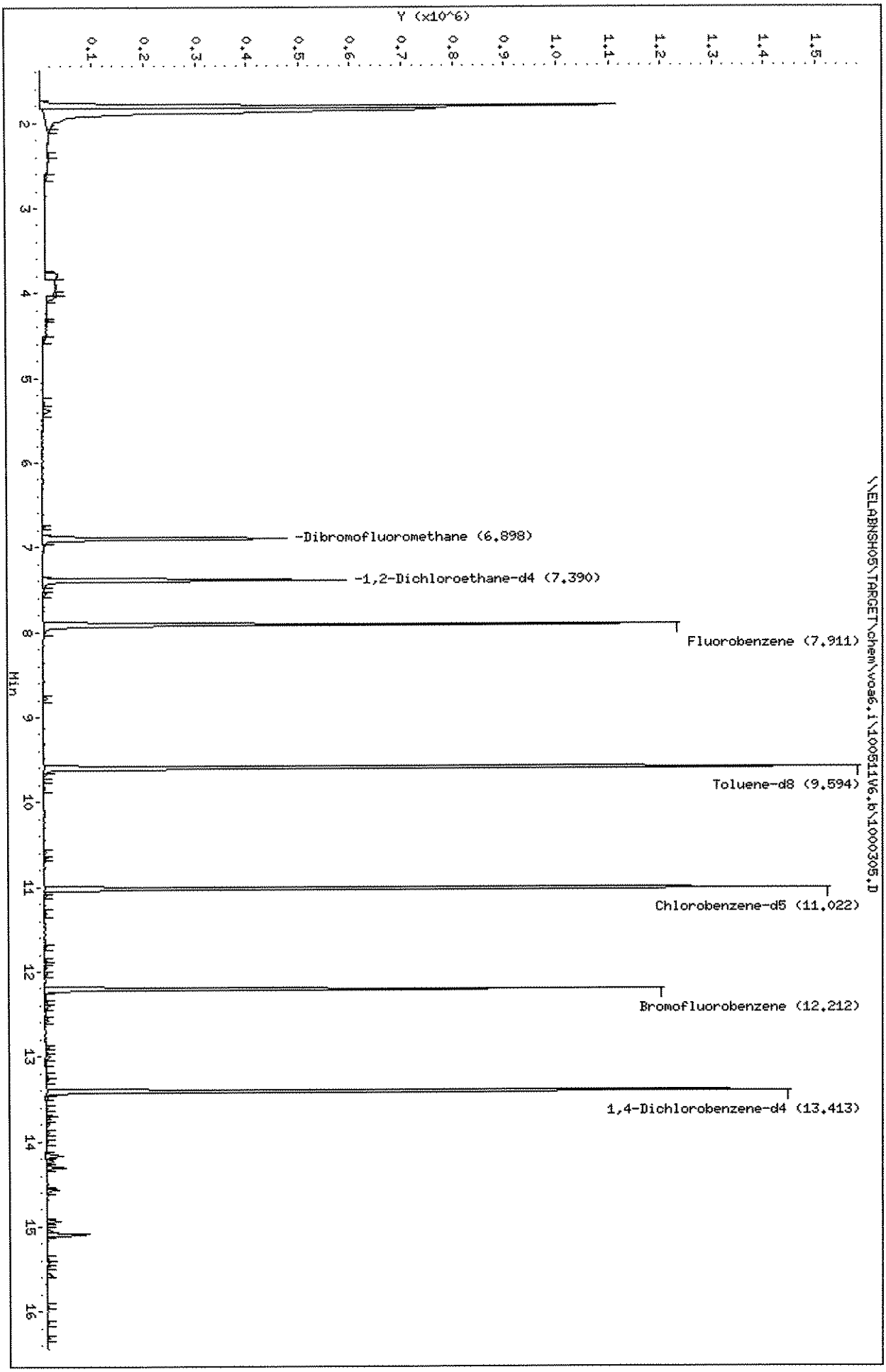
Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS ON-COLUMN (ug/L)	FINAL (ug/L)
* 55 Fluorobenzene	96	7.911	7.912	(1.000)	833887	30.0000	
$ 41 Dibromofluoromethane	111	6.897	6.899	(0.872)	265224	30.6256	30.62
$ 45 1,2-Dichloroethane-d4	102	7.389	7.391	(0.934)	52262	28.9428	28.94(Q)
$ 75 Toluene-d8	98	9.594	9.595	(0.871)	814253	32.8130	32.81
65 Methyl cyclohexane	83	8.777	8.778	(1.109)	1633	0.17376	0.1738(a)
* 86 Chlorobenzene-d5	82	11.021	11.022	(1.000)	377408	30.0000	
$ 99 Bromofluorobenzene	95	12.212	12.213	(1.108)	337655	30.5530	30.55
* 112 1,4-Dichlorobenzene-d4	152	13.413	13.414	(1.000)	283097	30.0000	(Q)

QC Flag Legend

a - Target compound detected but, quantitated amount
Below Limit Of Quantitation(BLOQ).
Q - Qualifier signal failed the ratio test.

Data File: \\ELABNSH05\TARGET\chem\voa6.i\100511V6.b\1000305.D
Date : 05-OCT-2011 13:43
Client ID:
Sample Info: 1110003-05;;;;
Purge Volume: 5.0
Column phase: RTX-VRX

Instrument: voa6.i
Operator: ADM
Column diameter: 0.25



Data File: \\ELABNSH05\TARGET\chem\voa6.i\100511V6.b\1000305.D

Date : 05-OCT-2011 13:43

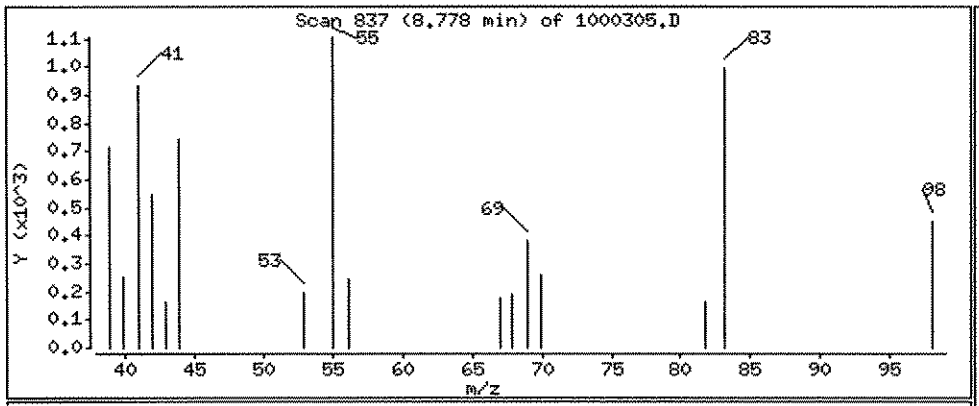
Client ID: Instrument: voa6.i

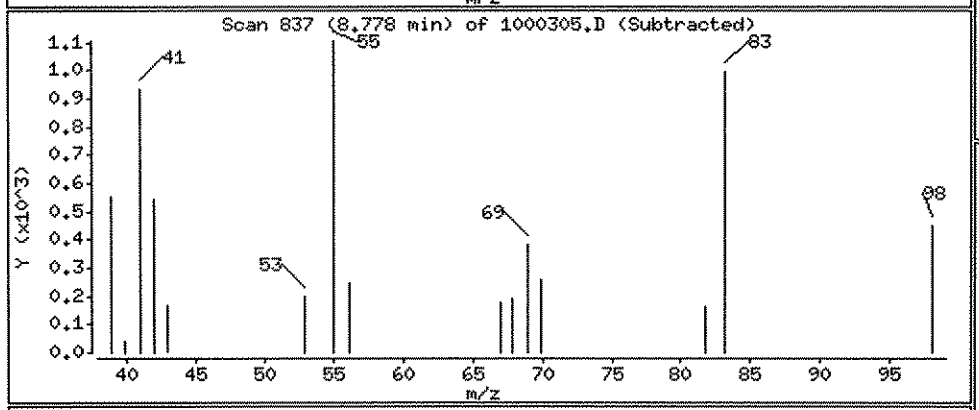
Sample Info: 1110003-05;;;;

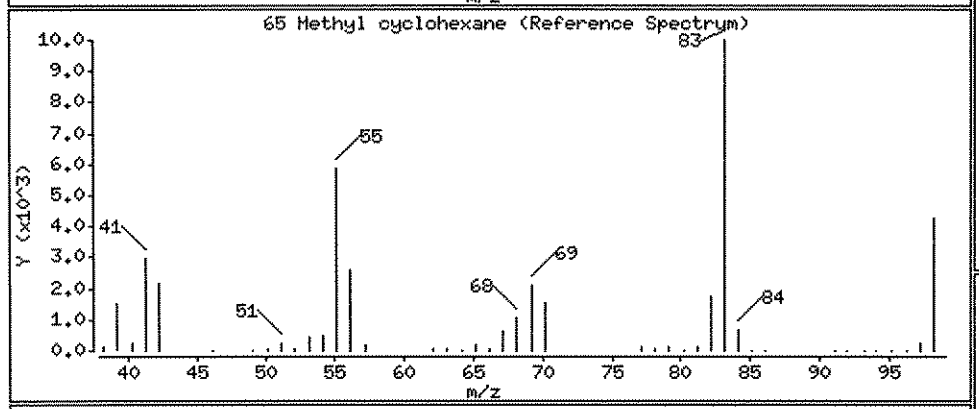
Purge Volume: 5.0 Operator: ADM

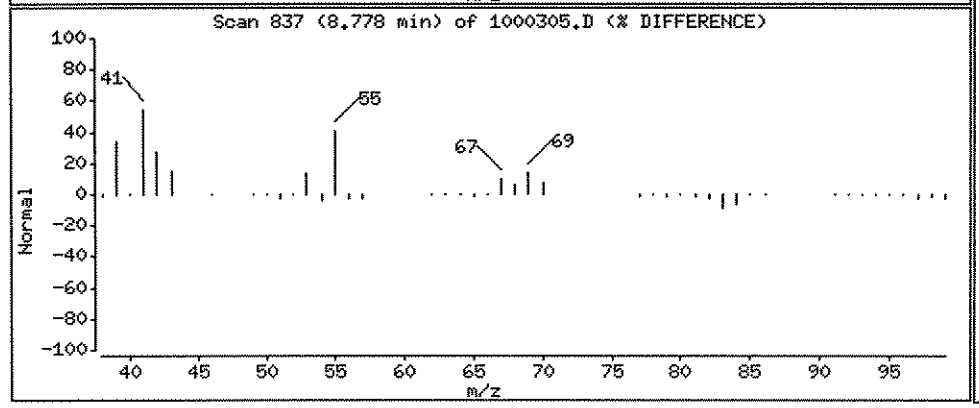
Column phase: RTX-VRX Column diameter: 0.25

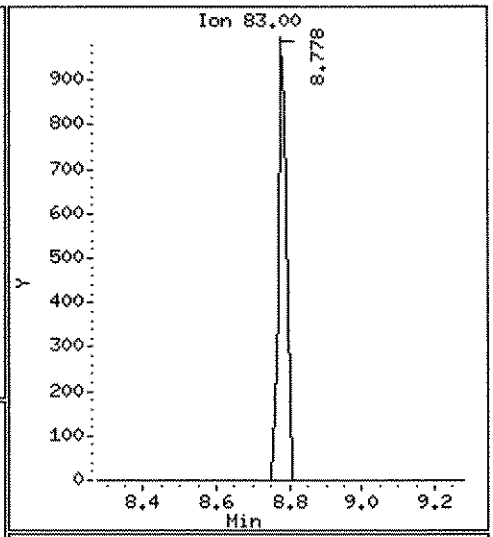
65 Methyl cyclohexane Concentration: 0.1738 ug/L

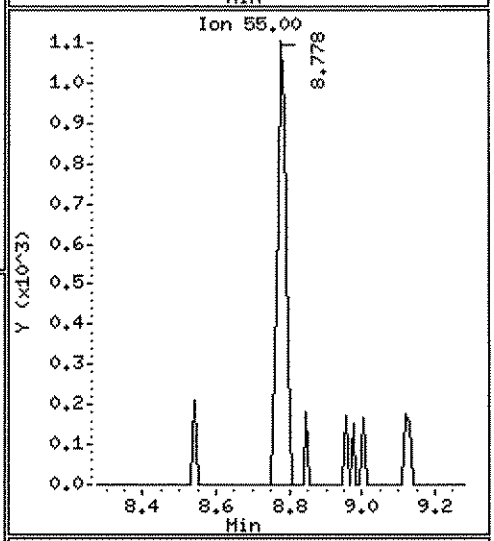


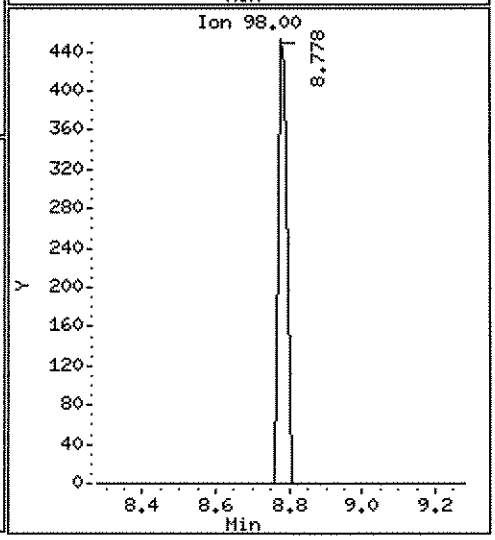












Data File: \\ELABNSH05\TARGET\chem\voa6.i\100511V6.b\1000307.D
Report Date: 06-Oct-2011 08:57

Laboratory Name

Data file : \\ELABNSH05\TARGET\chem\voa6.i\100511V6.b\1000307.D
Lab Smp Id: 1110003-07
Inj Date : 05-OCT-2011 14:09 MS Autotune Date: 13-SEP-2011 09:32
Operator : ADM Inst ID: voa6.i
Smp Info : 1110003-07;;;;
Misc Info : ;0;;;;8260.sub;
Comment :
Method : \\ELABNSH05\TARGET\chem\voa6.i\100511V6.b\VW6SUR.m
Meth Date : 06-Oct-2011 08:55 ghallquist Quant Type: ISTD
Cal Date : 13-SEP-2011 18:30 Cal File: 0913CAL9.D
Als bottle: 13
Dil Factor: 1.00000
Integrator: HP RTE Compound Sublist: 8260.sub
Target Version: 4.04
Processing Host: TARGET10_VM

Concentration Formula: Amt * DF * 5*Uf/Vo

Name	Value	Description
DF	1.000	Dilution Factor
Uf	1.000	unit correction factor
Vo	5.000	Volume of sample purged (mL)

10/6/11

10-6-11

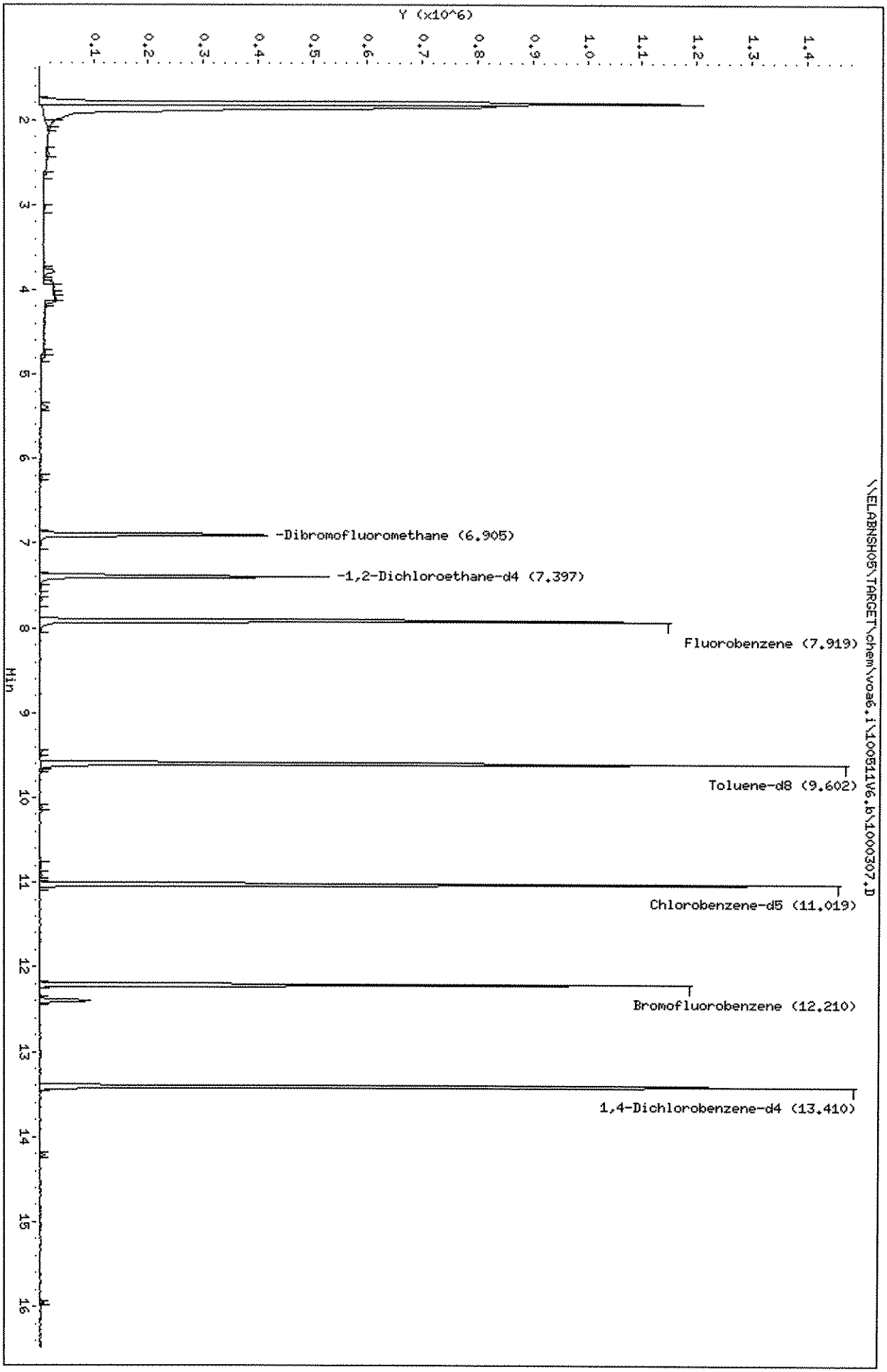
Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS ON-COLUMN (ug/L)	FINAL (ug/L)
* 55 Fluorobenzene	96	7.918	7.912	(1.000)	794571	30.0000	
9 Acetone	43	3.784	3.788	(0.478)	45559	14.2681	14.27
$ 41 Dibromofluoromethane	111	6.904	6.899	(0.872)	249886	30.2823	30.28
$ 45 1,2-Dichloroethane-d4	102	7.396	7.391	(0.934)	48556	28.2210	28.22(Q)
$ 75 Toluene-d8	98	9.601	9.595	(0.871)	766672	31.7473	31.75
* 86 Chlorobenzene-d5	82	11.018	11.022	(1.000)	367283	30.0000	
$ 99 Bromofluorobenzene	95	12.209	12.213	(1.108)	325857	30.2983	30.30
* 112 1,4-Dichlorobenzene-d4	152	13.410	13.414	(1.000)	273086	30.0000	(Q)

QC Flag Legend

Q - Qualifier signal failed the ratio test.

Data File: \\ELABNSH05\TARGET\chem\voa6.i\100511V6.b\1000307.D
Date : 05-OCT-2011 14:09
Client ID:
Sample Info: 1110003-07;;;;
Purge Volume: 5.0
Column phase: RTX-VRX

Instrument: voa6.i
Operator: ADM
Column diameter: 0.25



Data File: \\ELABNSHO5\TARGET\chem\voa6.i\100511V6.b\1000307.D

Date : 05-OCT-2011 14:09

Client ID:

Instrument: voa6.i

Sample Info: 1110003-07;;;;

Purge Volume: 5.0

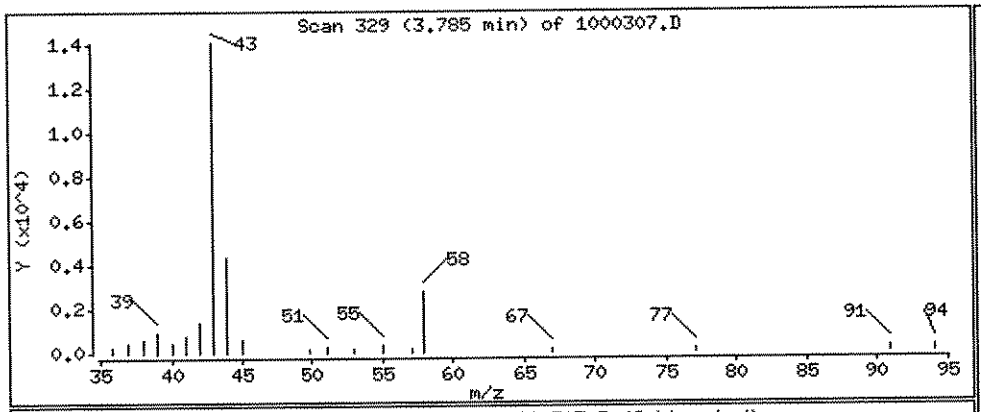
Operator: ADM

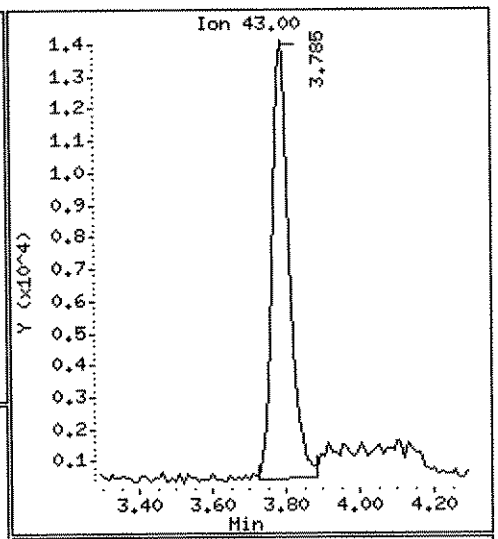
Column phase: RTX-VRX

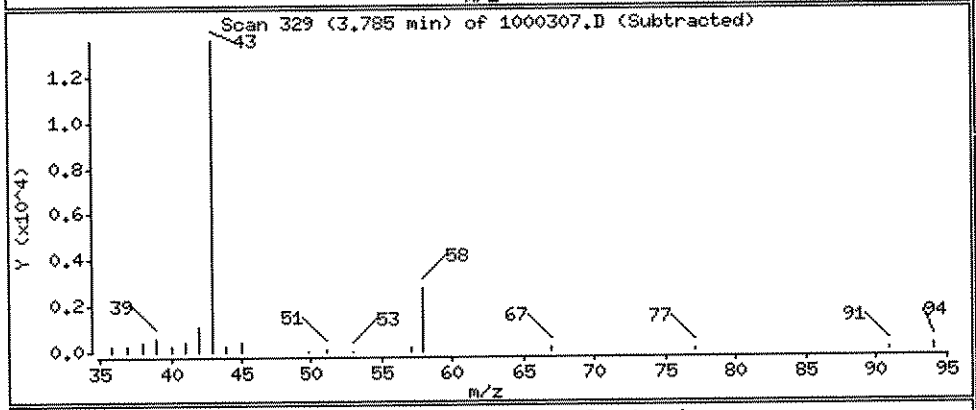
Column diameter: 0.25

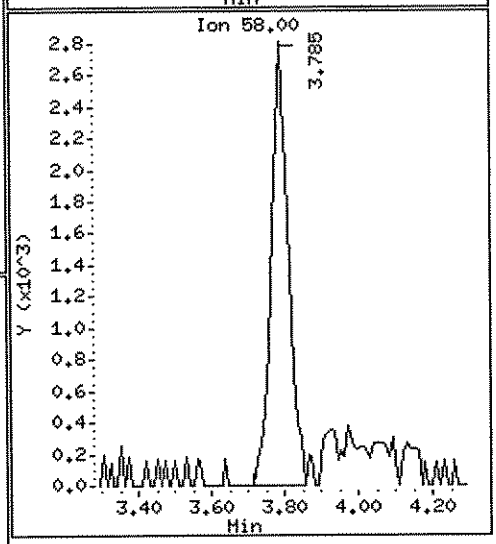
9 Acetone

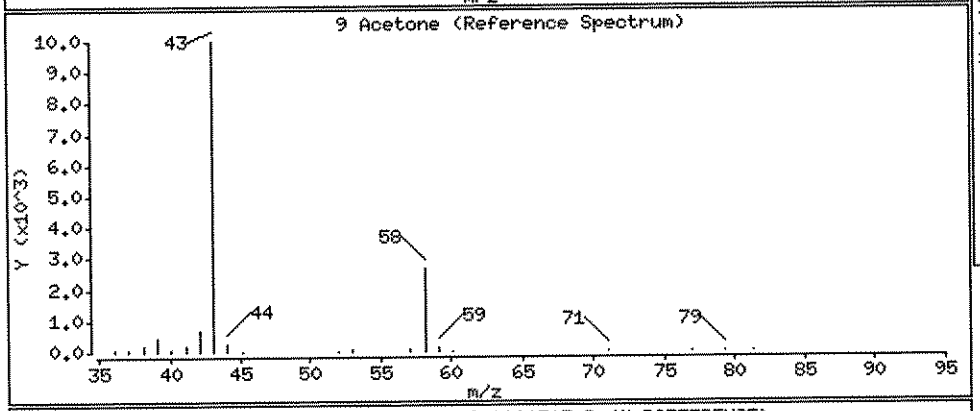
Concentration: 14.27 ug/L

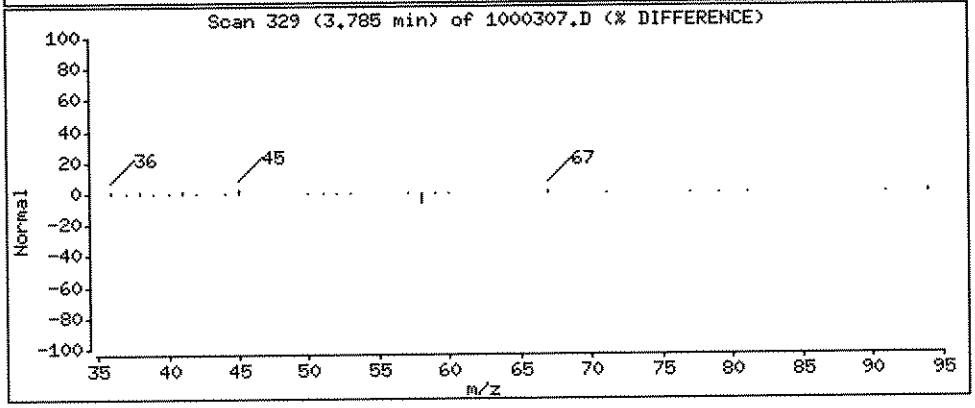












Data File: \\ELABNSH05\TARGET\chem\voa6.i\100511V6.b\1000309.D
Report Date: 06-Oct-2011 08:57

Laboratory Name

Data file : \\ELABNSH05\TARGET\chem\voa6.i\100511V6.b\1000309.D
Lab Smp Id: 1110003-09
Inj Date : 05-OCT-2011 14:36 MS Autotune Date: 13-SEP-2011 09:32
Operator : ADM Inst ID: voa6.i
Smp Info : 1110003-09;;;;
Misc Info : ;0;;;;8260.sub;
Comment :
Method : \\ELABNSH05\TARGET\chem\voa6.i\100511V6.b\VW6SUR.m
Meth Date : 06-Oct-2011 08:55 ghallquist Quant Type: ISTD
Cal Date : 13-SEP-2011 18:30 Cal File: 0913CAL9.D
Als bottle: 14
Dil Factor: 1.00000
Integrator: HP RTE Compound Sublist: 8260.sub
Target Version: 4.04
Processing Host: TARGET10_VM

Concentration Formula: Amt * DF * 5*Uf/Vo

Name	Value	Description
DF	1.000	Dilution Factor
Uf	1.000	unit correction factor
Vo	5.000	Volume of sample purged (mL)

10/6/11

Ford 10-6-11

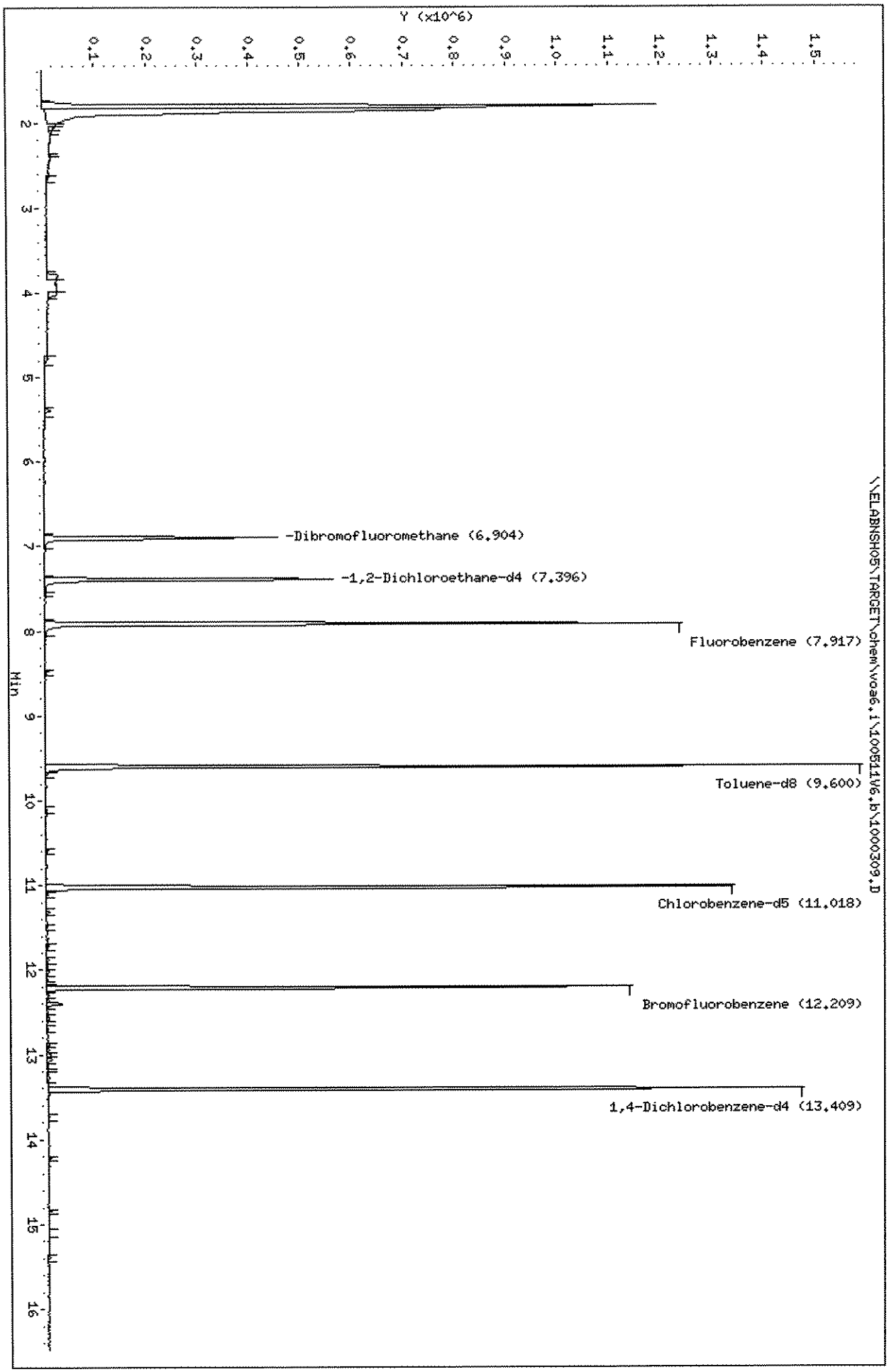
Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS ON-COLUMN (ug/L)	FINAL (ug/L)
* 55 Fluorobenzene	96	7.917	7.912	(1.000)	807412	30.0000	
$ 41 Dibromofluoromethane	111	6.903	6.899	(0.872)	258207	30.7930	30.79
$ 45 1,2-Dichloroethane-d4	102	7.395	7.391	(0.934)	49243	28.1651	28.16(Q)
$ 75 Toluene-d8	98	9.600	9.595	(0.871)	779128	32.0284	32.03
* 86 Chlorobenzene-d5	82	11.017	11.022	(1.000)	369974	30.0000	
$ 99 Bromofluorobenzene	95	12.208	12.213	(1.108)	326892	30.1734	30.17
108 1,2,4-Trimethylbenzene	105	13.055	13.060	(0.974)	4840	0.22927	0.2293(a)
* 112 1,4-Dichlorobenzene-d4	152	13.409	13.414	(1.000)	270369	30.0000	(Q)

QC Flag Legend

a - Target compound detected but, quantitated amount
Below Limit Of Quantitation(BLOQ).
Q - Qualifier signal failed the ratio test.

Data File: \\ELABNSH05\TARGET\chem\voa6.i\1005111V6.b\1000309.D
Date : 05-OCT-2011 14:36
Client ID:
Sample Info: 1110003-09;;;;
Purge Volume: 5.0
Column Phase: RTX-VRX

Instrument: voa6.i
Operator: ADM
Column diameter: 0.25



Data File: \\ELABNSH05\TARGET\chem\voa6.i\100511V6.b\1000309.D

Date : 05-OCT-2011 14:36

Client ID:

Instrument: voa6.i

Sample Info: 1110003-09;;;;

Purge Volume: 5.0

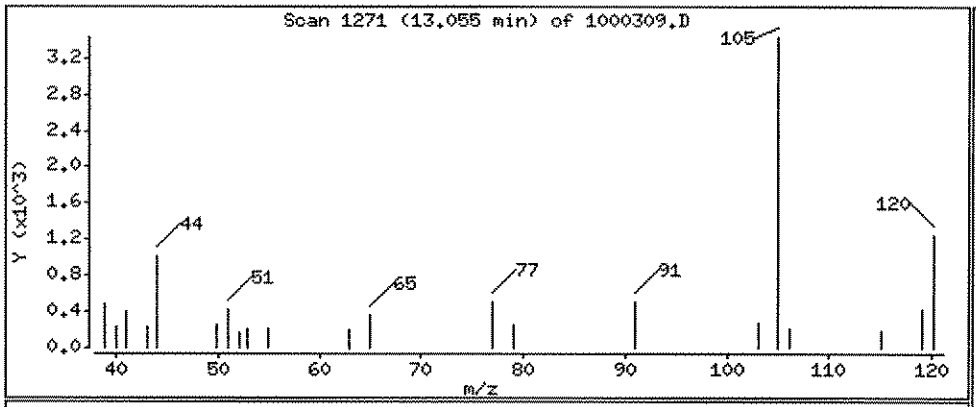
Operator: ADM

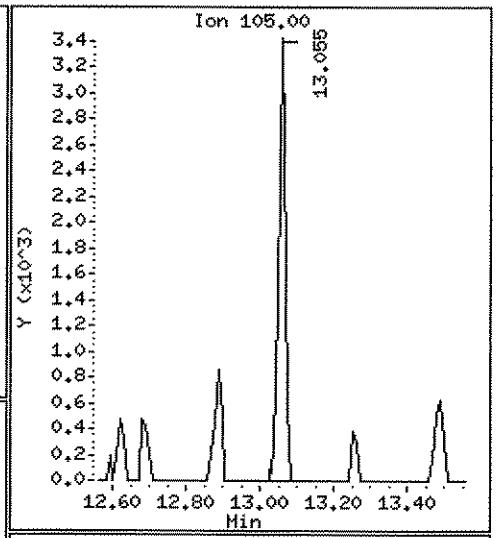
Column phase: RTX-VRX

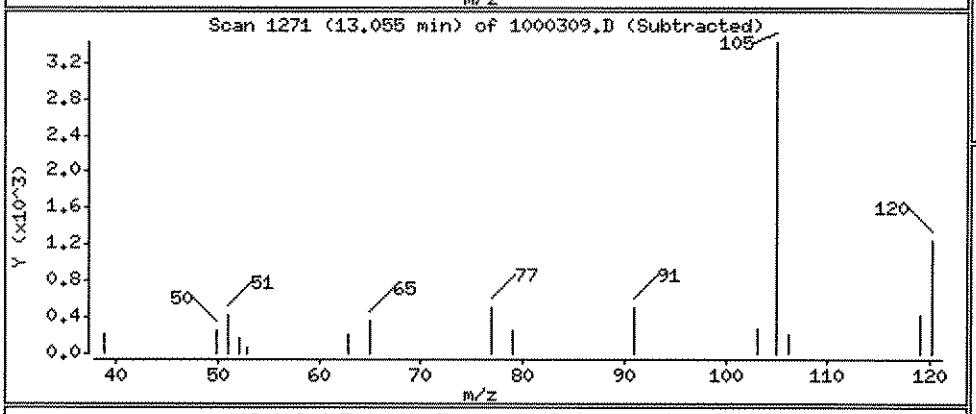
Column diameter: 0.25

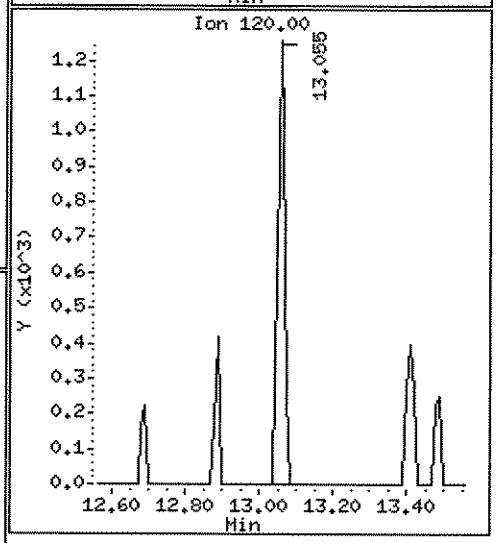
108 1,2,4-Trimethylbenzene

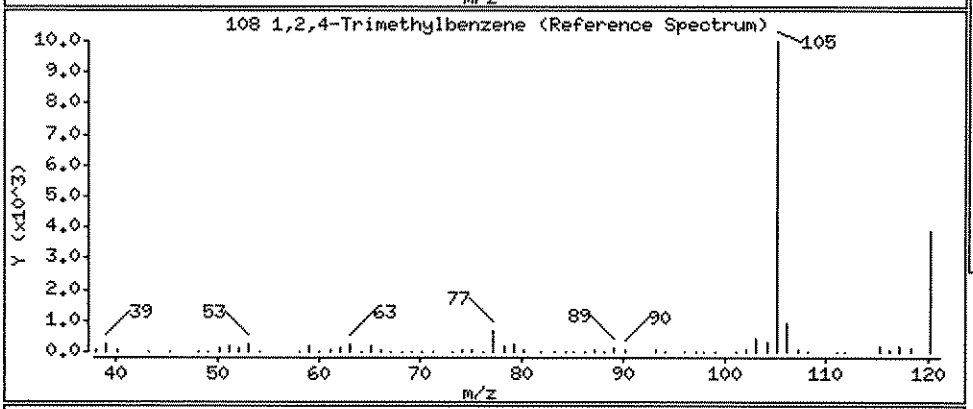
Concentration: 0.2293 ug/L

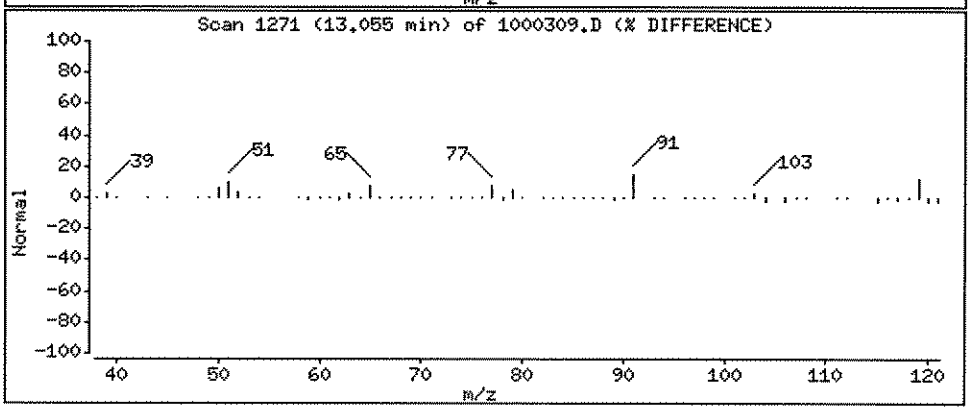












Data File: \\ELABNSH05\TARGET\chem\voa6.i\100511V6.b\1000312.D
Report Date: 06-Oct-2011 08:58

Laboratory Name

Data file : \\ELABNSH05\TARGET\chem\voa6.i\100511V6.b\1000312.D
Lab Smp Id: 1110003-12
Inj Date : 05-OCT-2011 15:03 MS Autotune Date: 13-SEP-2011 09:32
Operator : ADM Inst ID: voa6.i
Smp Info : 1110003-12;;;;
Misc Info : ;0;;;;8260.sub;
Comment :
Method : \\ELABNSH05\TARGET\chem\voa6.i\100511V6.b\VW6SUR.m
Meth Date : 06-Oct-2011 08:55 ghallquist Quant Type: ISTD
Cal Date : 13-SEP-2011 18:30 Cal File: 0913CAL9.D
Als bottle: 15
Dil Factor: 1.00000
Integrator: HP RTE Compound Sublist: 8260.sub
Target Version: 4.04
Processing Host: TARGET10_VM

Concentration Formula: Amt * DF * 5*Uf/Vo

Name	Value	Description
DF	1.000	Dilution Factor
Uf	1.000	unit correction factor
Vo	5.000	Volume of sample purged (mL)

10-6-11

Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS ON-COLUMN (ug/L)	FINAL (ug/L)
* 55 Fluorobenzene	96	7.917	7.912	(1.000)	779960	30.0000	
9 Acetone	43	3.783	3.788	(0.478)	20177	6.43740	6.437(a)
$ 41 Dibromofluoromethane	111	6.903	6.899	(0.872)	249809	30.8400	30.84
$ 45 1,2-Dichloroethane-d4	102	7.395	7.391	(0.934)	47203	27.9485	27.95(Q)
52 Benzene	78	7.651	7.656	(0.966)	4952	0.18098	0.1810(a)
$ 75 Toluene-d8	98	9.600	9.595	(0.871)	761963	32.1274	32.13
77 Toluene	92	9.669	9.674	(0.878)	14237	0.90357	0.9036(a)
* 86 Chlorobenzene-d5	82	11.017	11.022	(1.000)	360708	30.0000	
90 Ethylbenzene	91	11.204	11.200	(1.017)	28667	0.92771	0.9277(a)
91 m,p-Xylene	91	11.312	11.318	(1.027)	47407	1.98708	1.987
M 127 Xylene(total)	91				99370	4.05046	4.050
93 o-Xylene	91	11.706	11.711	(1.063)	51963	2.06337	2.063
$ 99 Bromofluorobenzene	95	12.208	12.213	(1.108)	320773	30.3692	30.37
101 n-Propylbenzene	91	12.503	12.509	(0.932)	22971	0.79045	0.7904(a)
105 1,3,5-Trimethylbenzene	105	12.592	12.686	(0.939)	17190	0.87371	0.8737(a)
108 1,2,4-Trimethylbenzene	105	13.055	13.060	(0.974)	2422	0.11905	0.1190(a)

Data File: \\ELABNSH05\TARGET\chem\voa6.i\100511V6.b\1000312.D
Report Date: 06-Oct-2011 08:58

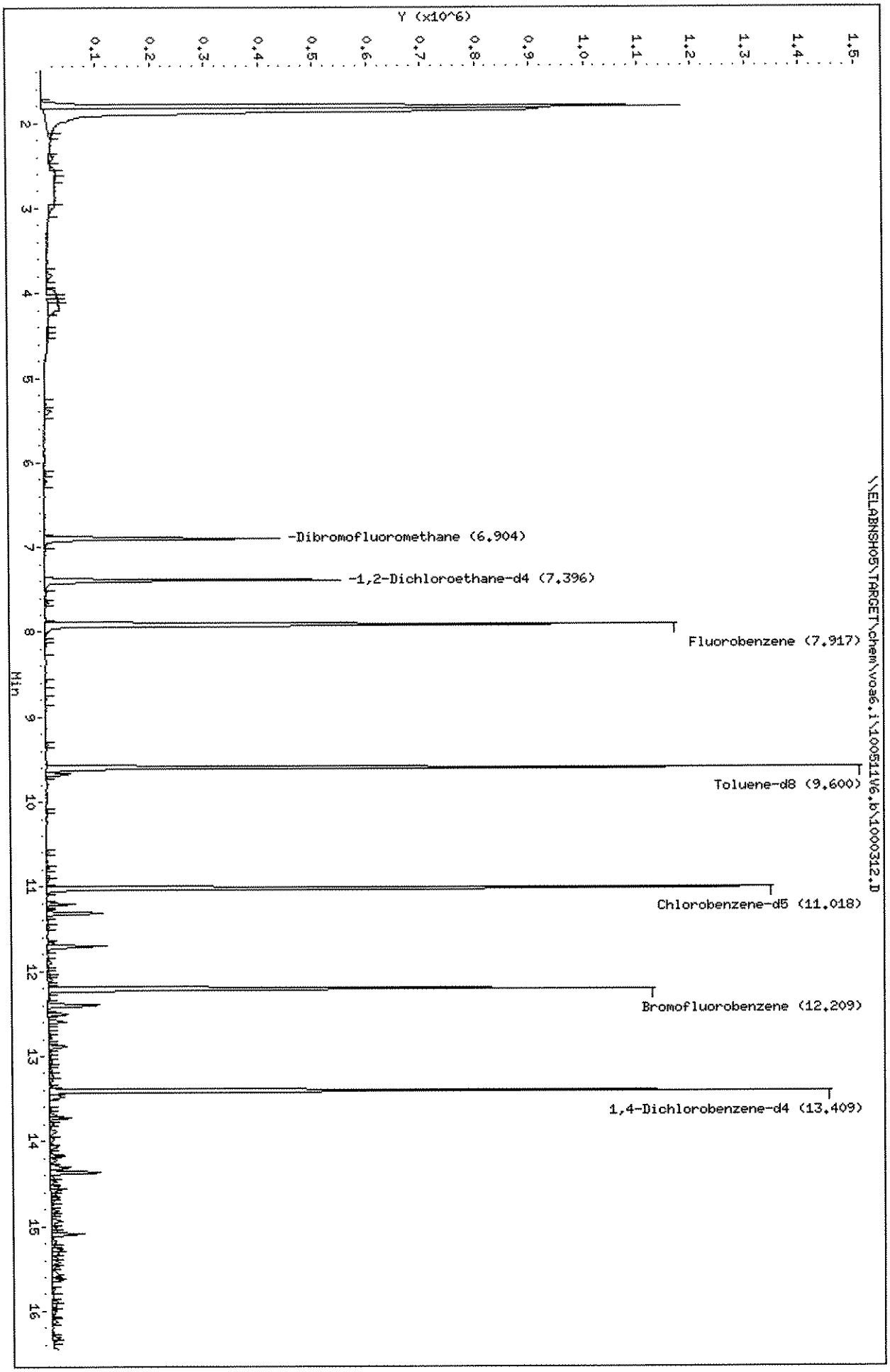
Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS ON-COLUMN (ug/L)	FINAL (ug/L)
* 112 1,4-Dichlorobenzene-d4	152	13.409	13.414	(1.000)	260569	30.0000	(Q)
121 Naphthalene	128	15.623	15.628	(1.165)	14144	1.02610	1.026

QC Flag Legend

a - Target compound detected but, quantitated amount
Below Limit Of Quantitation(BLOQ).
Q - Qualifier signal failed the ratio test.

Data File: \\ELABNSHO5\TARGET\chem\voa6.i\100511V6.b\1000312.D
Date : 05-OCT-2011 15:03
Client ID:
Sample Info: 1110003-12;;;;
Purge Volume: 5.0
Column phase: RTX-VRX

Instrument: voa6.i
Operator: ADM
Column diameter: 0.25



Data File: \\ELABNSH05\TARGET\chem\voa6.i\100511V6.b\1000312.D

Date : 05-OCT-2011 15:03

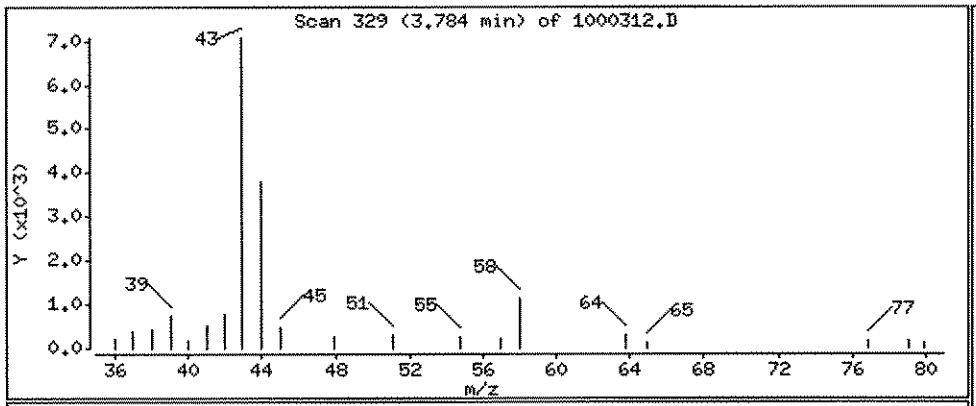
Client ID: | Instrument: voa6.i

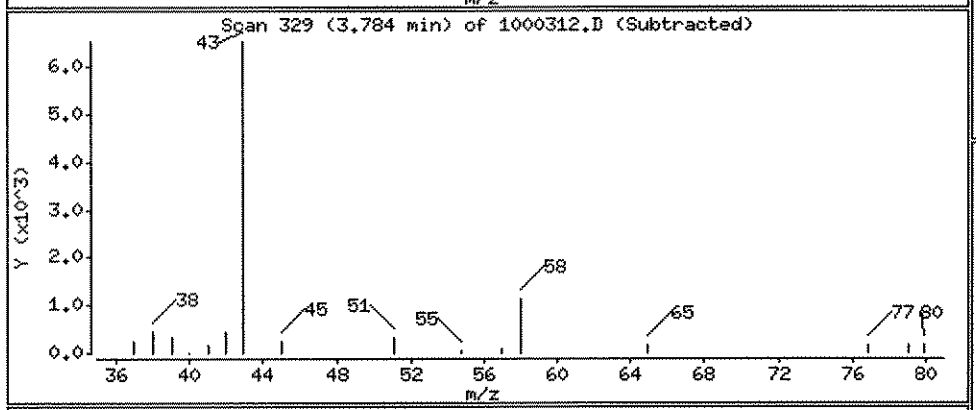
Sample Info: 1110003-12;;;;

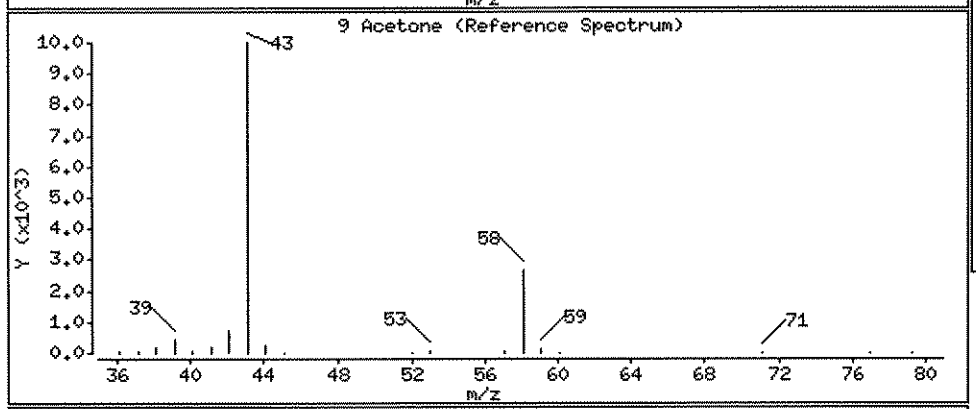
Purge Volume: 5.0 | Operator: ADM

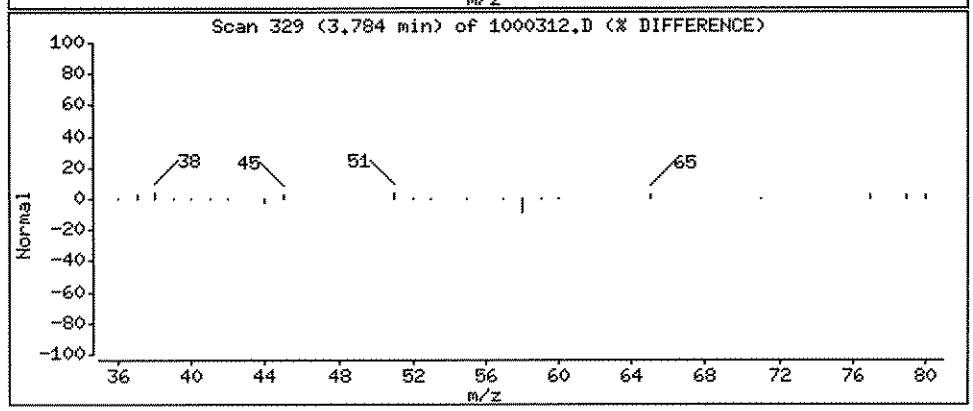
Column phase: RTX-VRX | Column diameter: 0.25

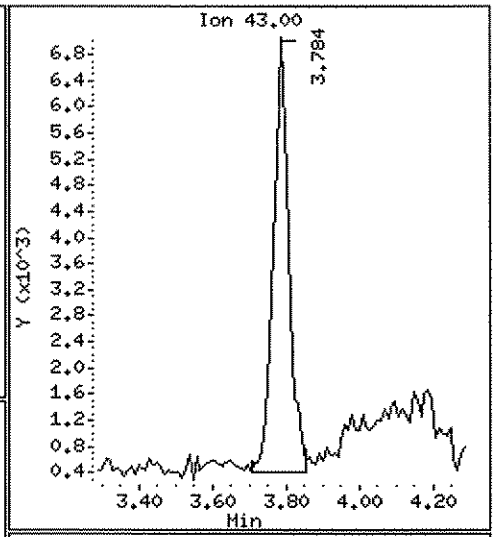
9 Acetone | Concentration: 6.437 ug/L

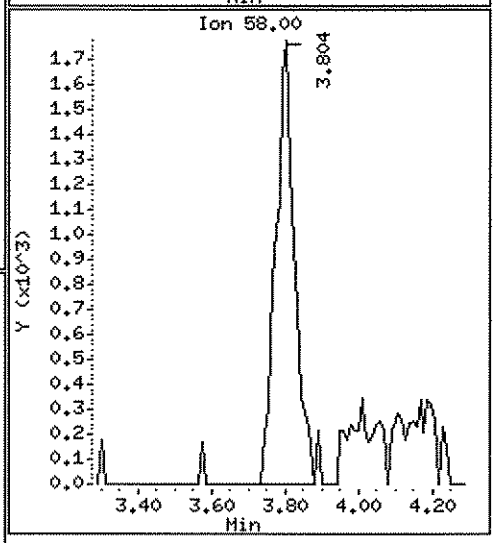












Data File: \\ELABNSH05\TARGET\chem\voa6.i\100511V6.b\1000312.D

Date : 05-OCT-2011 15:03

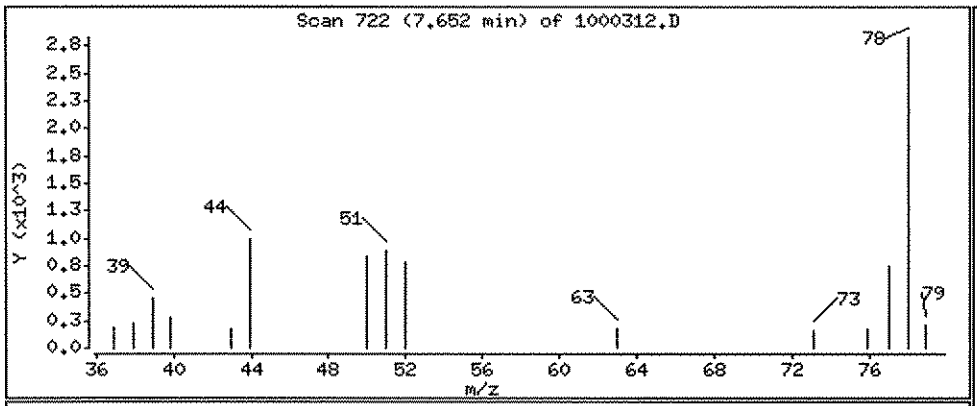
Client ID: | Instrument: voa6.i

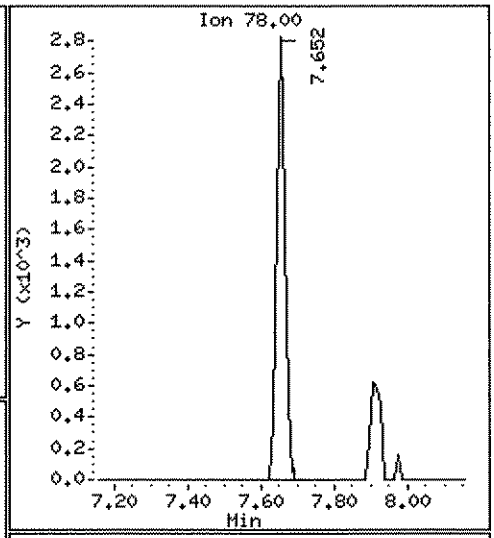
Sample Info: 1110003-12;;;;

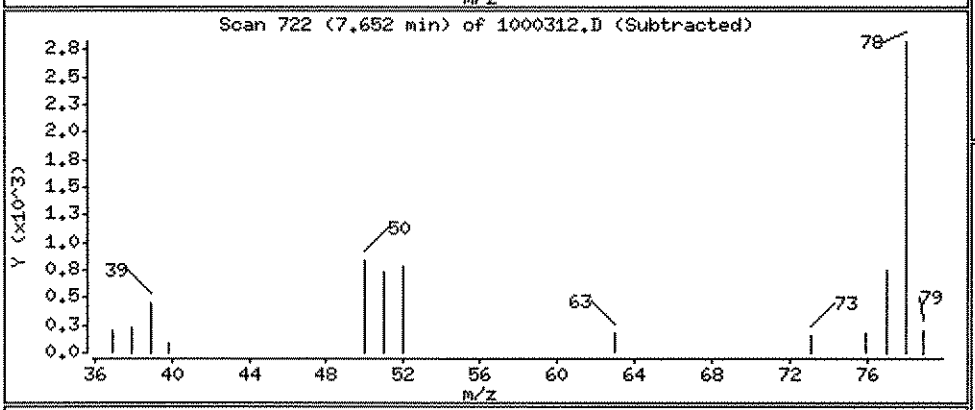
Purge Volume: 5.0 | Operator: ADM

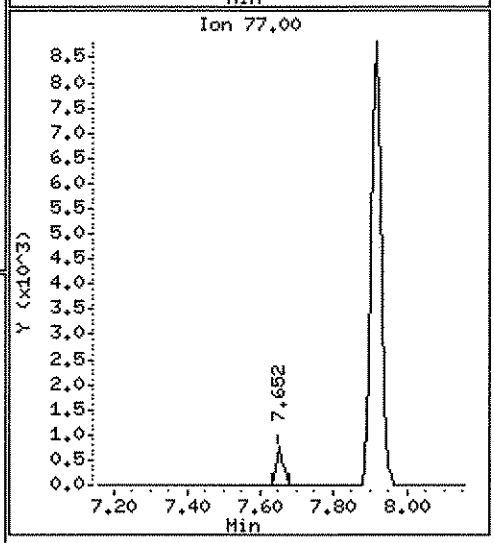
Column phase: RTX-VRX | Column diameter: 0.25

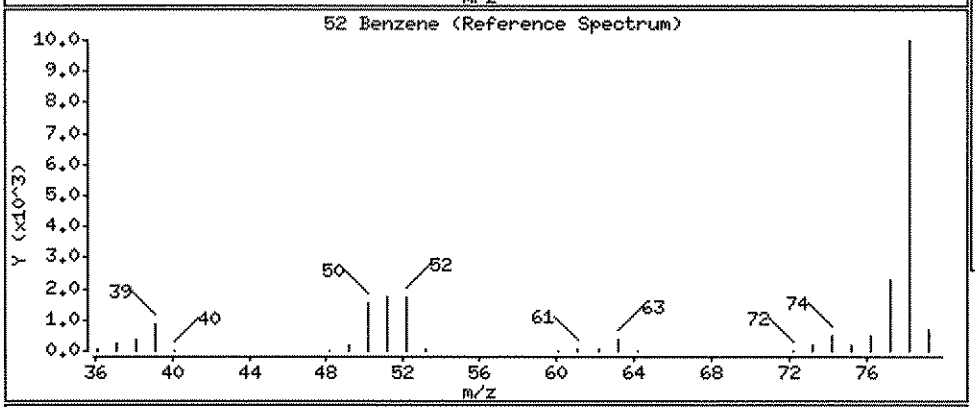
52 Benzene | Concentration: 0.1810 ug/L

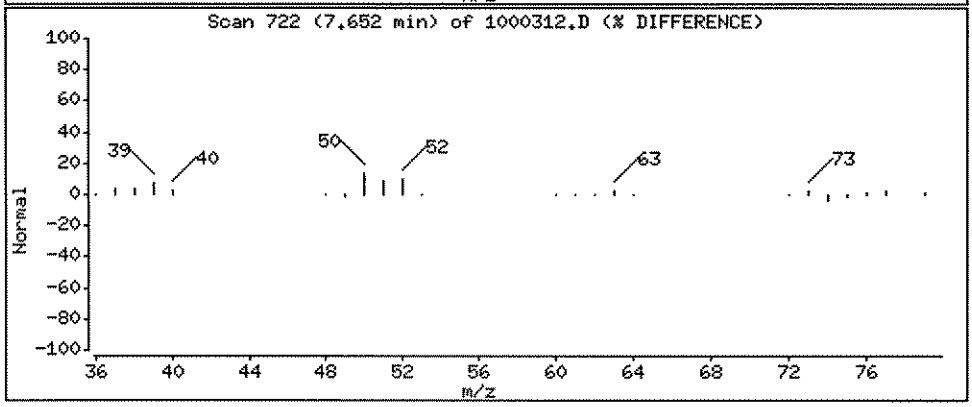












Data File: \\ELABNSH05\TARGET\chem\voa6.i\100511V6.b\1000312.D

Date : 05-OCT-2011 15:03

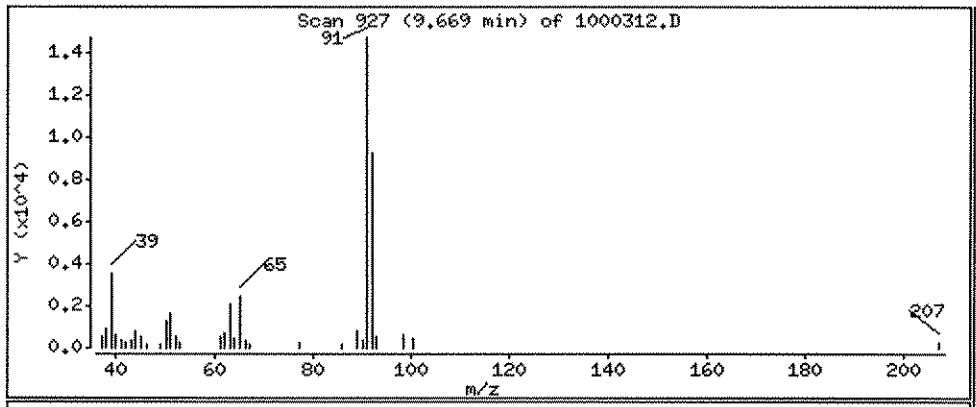
Client ID: | Instrument: voa6.i

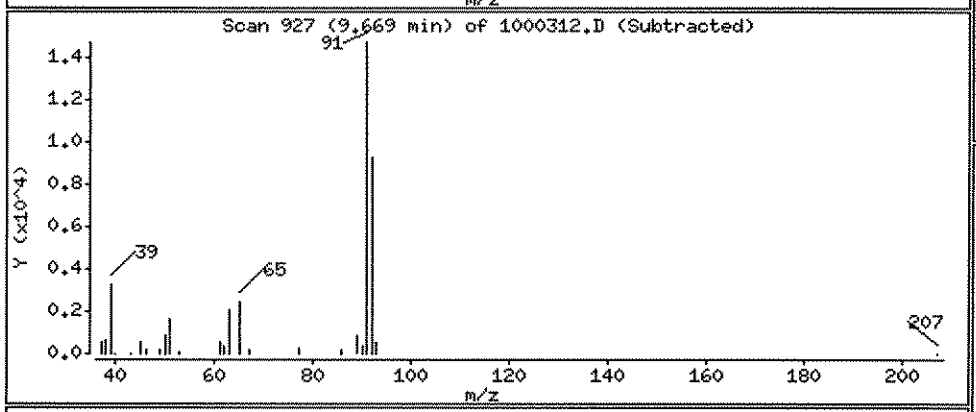
Sample Info: 1110003-12;;;;

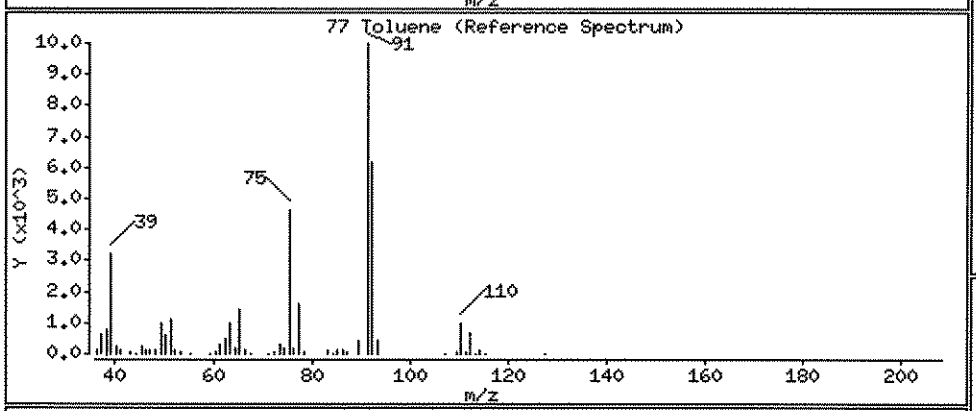
Purge Volume: 5.0 | Operator: ADM

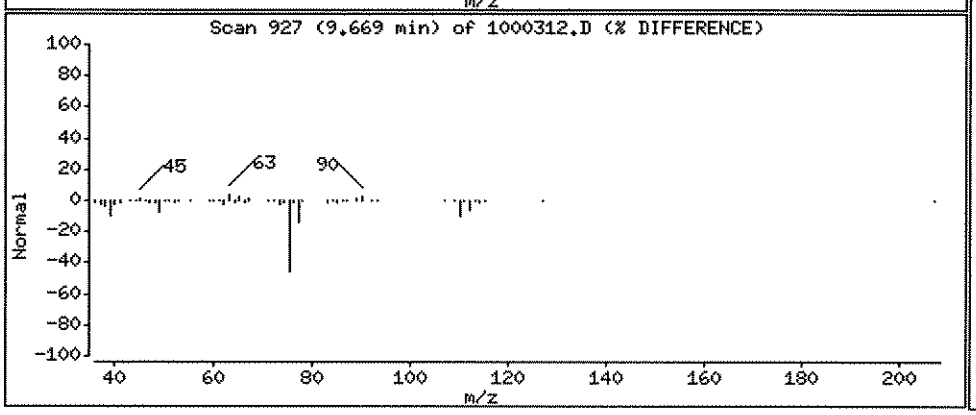
Column phase: RTX-VRX | Column diameter: 0.25

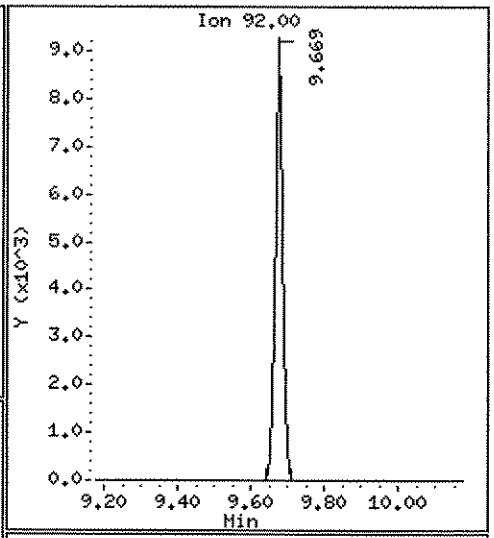
77 Toluene | Concentration: 0.9036 ug/L

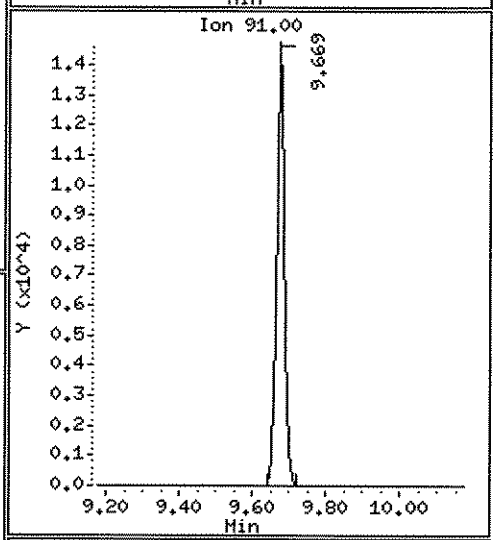


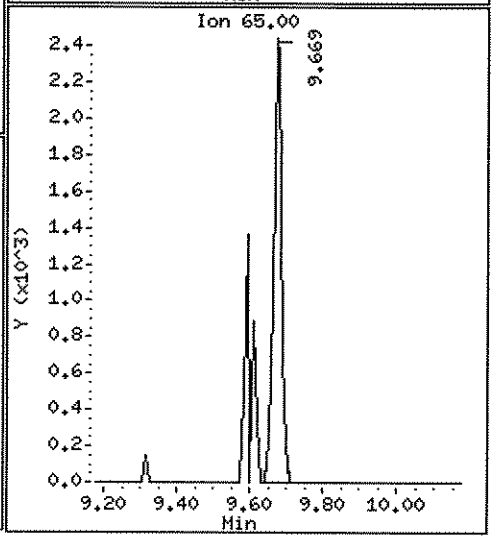












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Date : 05-OCT-2011 15:03

Client ID:

Instrument: voa6.i

Sample Info: 1110003-12;;;;

Purge Volume: 5.0

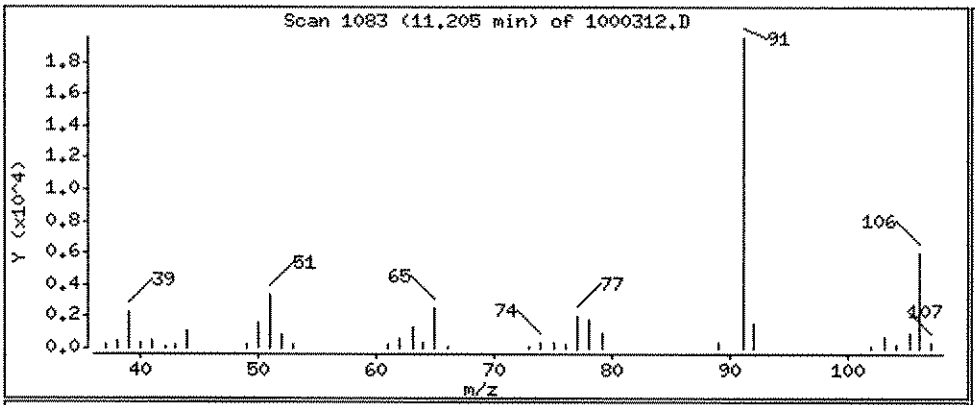
Operator: ADM

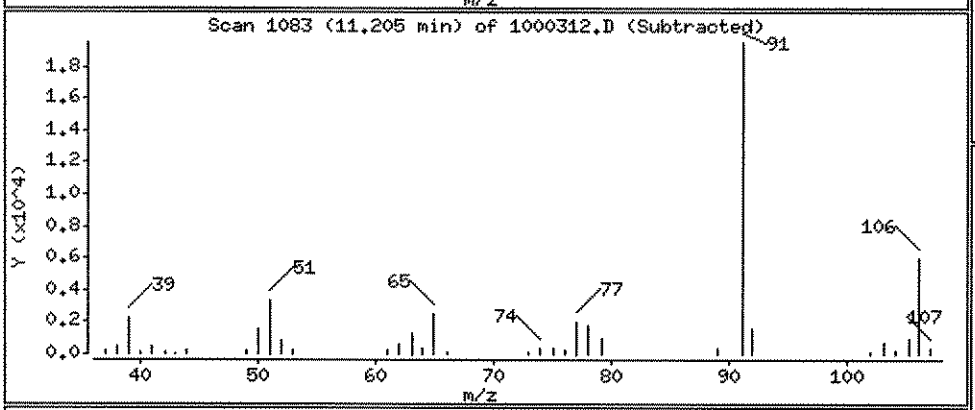
Column phase: RTX-VRX

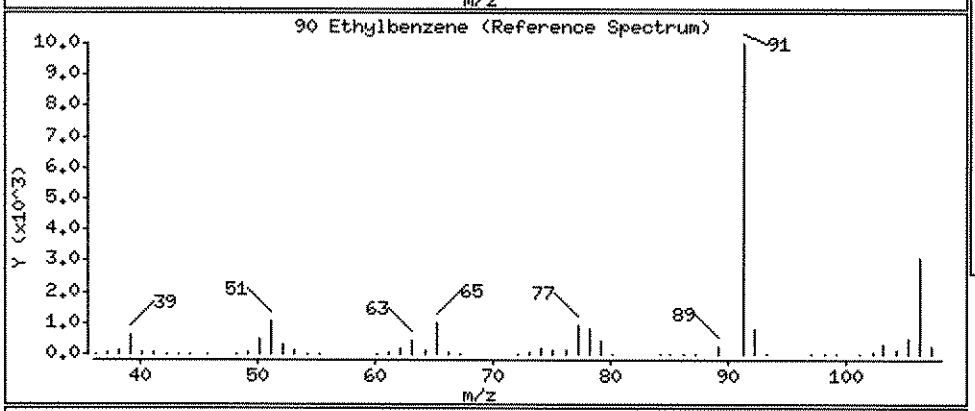
Column diameter: 0.25

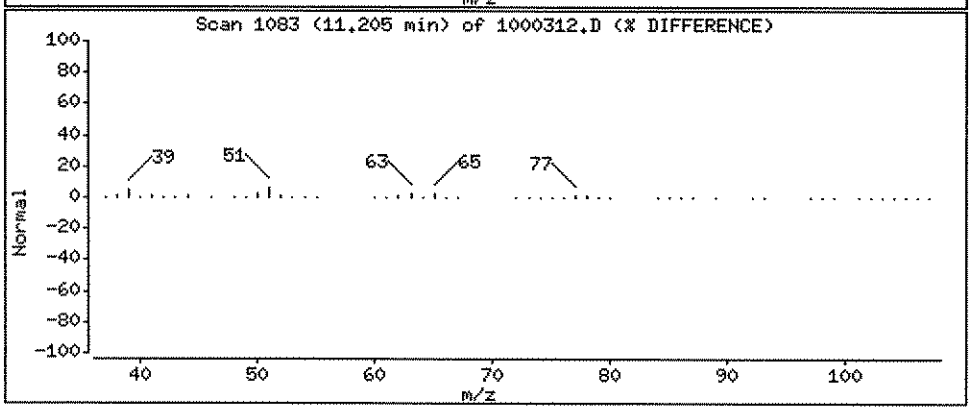
90 Ethylbenzene

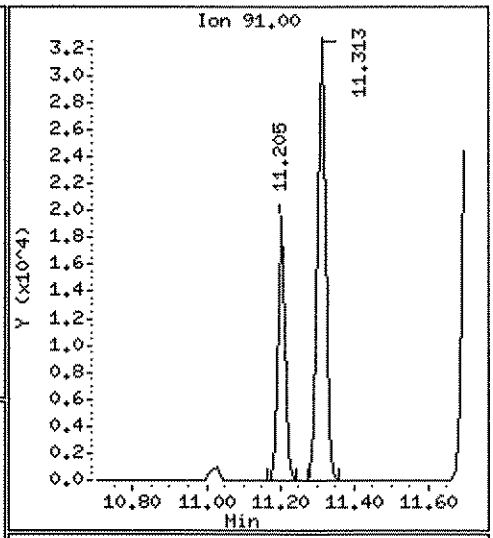
Concentration: 0.9277 ug/L

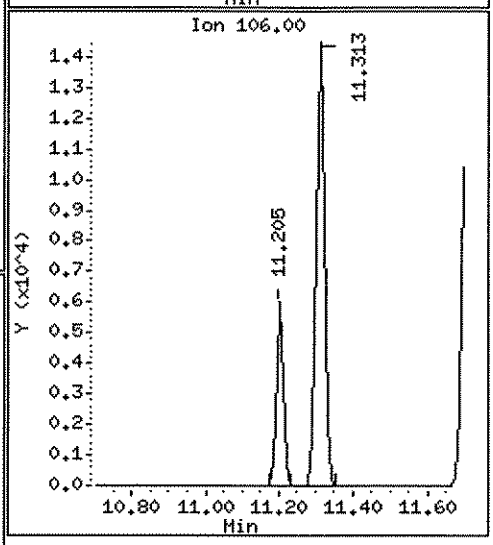












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Date : 05-OCT-2011 15:03

Client ID:

Instrument: voa6.i

Sample Info: 1110003-12;;;;

Purge Volume: 5.0

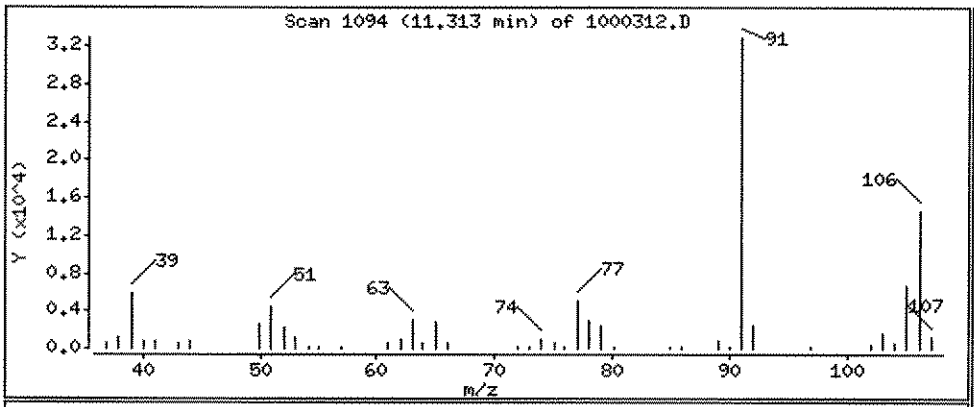
Operator: ADM

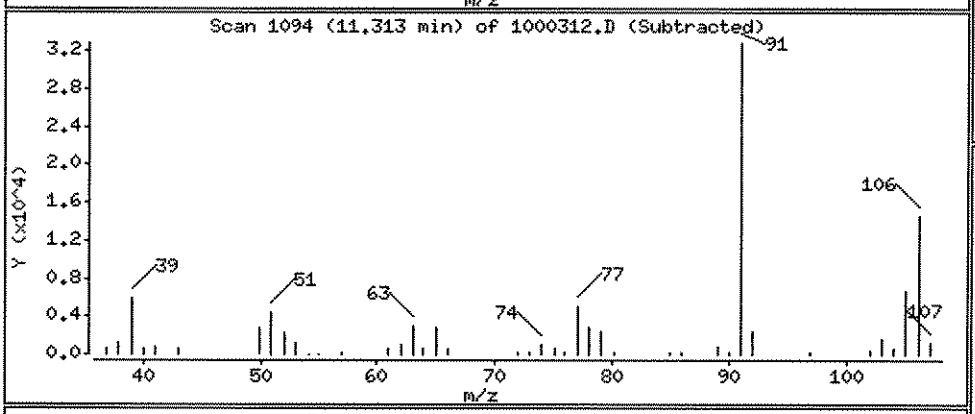
Column phase: RTX-VRX

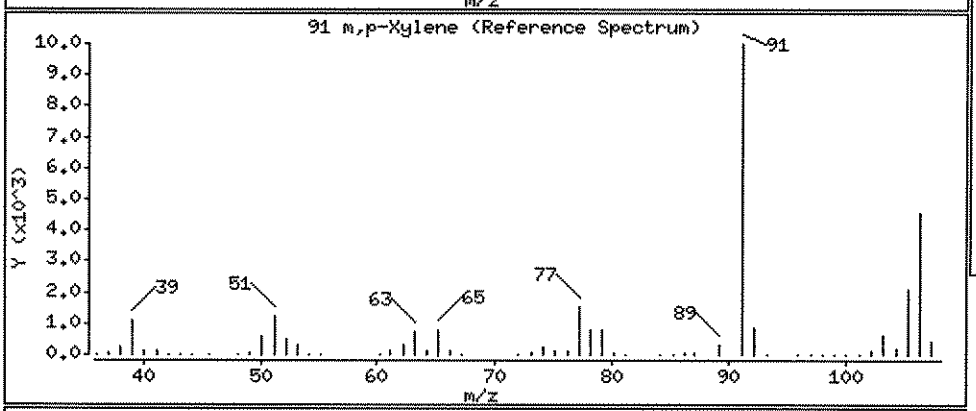
Column diameter: 0.25

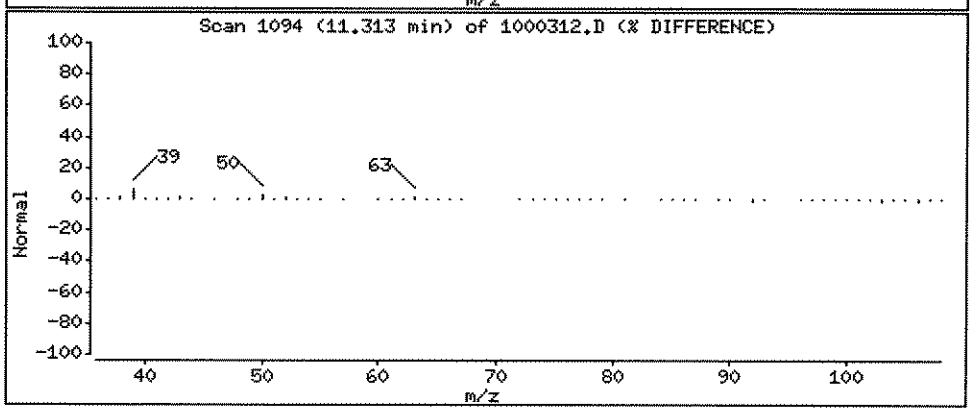
91 m,p-Xylene

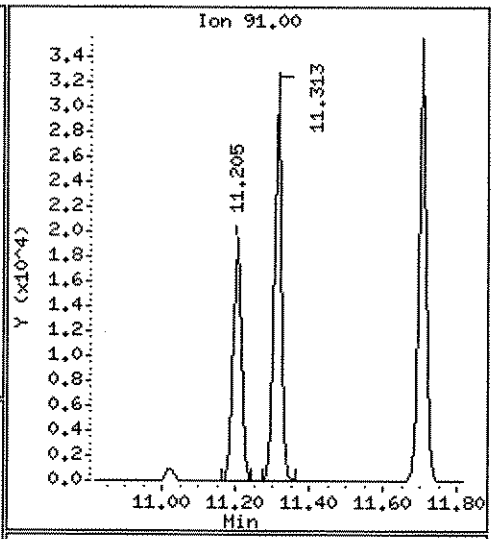
Concentration: 1.987 ug/L

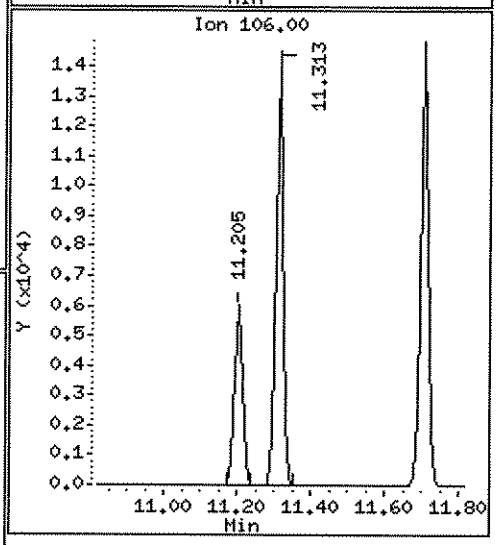












Data File: \\ELABNSH05\TARGET\chem\voa6.i\100511V6.b\1000312.D

Date : 05-OCT-2011 15:03

Client ID:

Instrument: voa6.i

Sample Info: 1110003-12;;;;

Purge Volume: 5.0

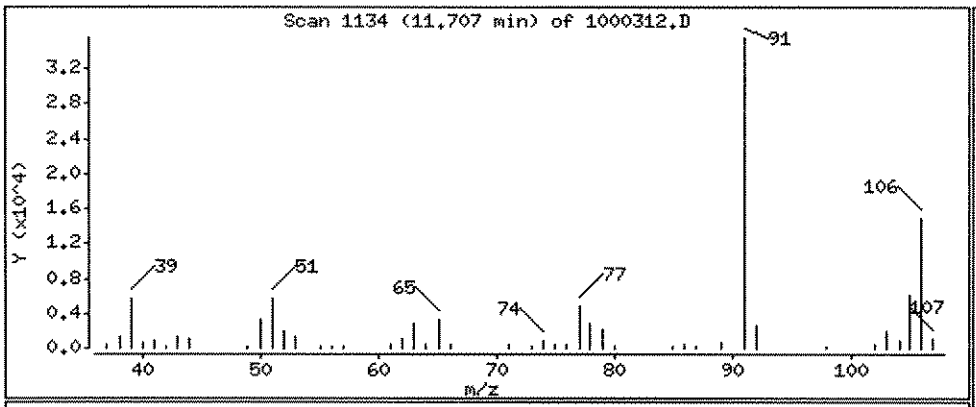
Operator: ADM

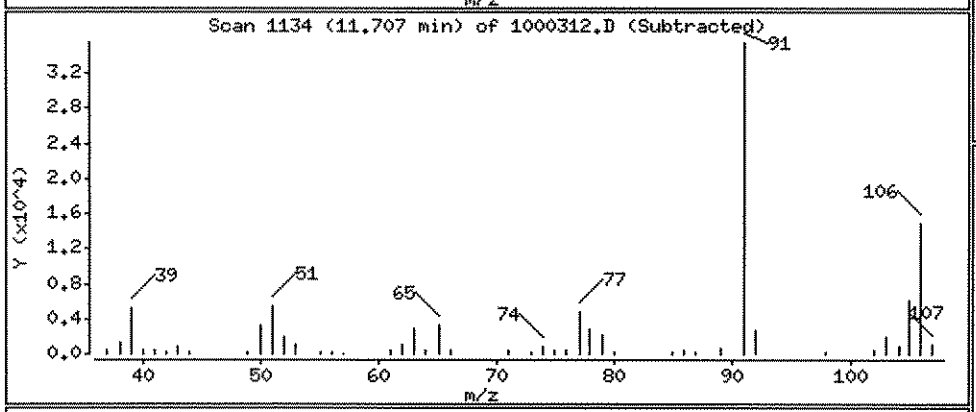
Column phase: RTX-VRX

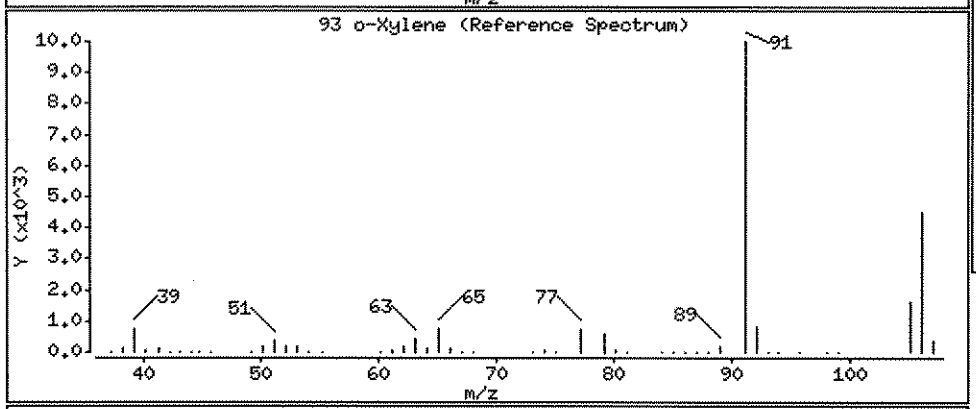
Column diameter: 0.25

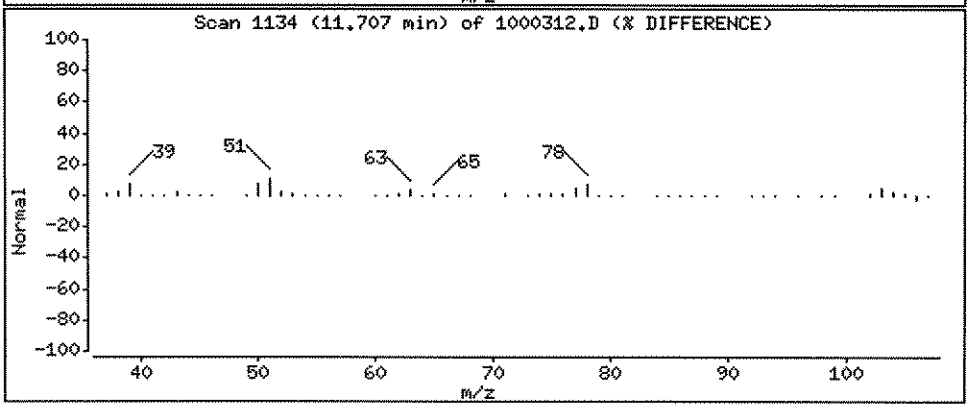
93 o-Xylene

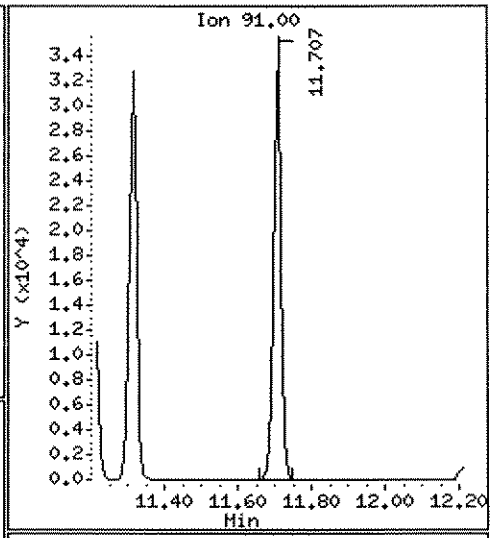
Concentration: 2.063 ug/L

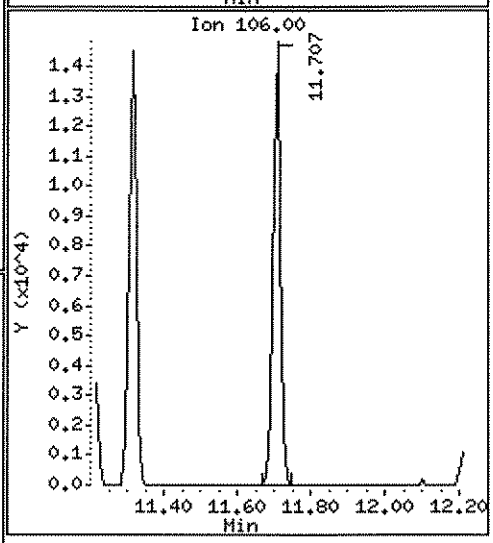












Data File: \\ELABNSH05\TARGET\chem\voa6.i\100511V6.b\1000312.D

Date : 05-OCT-2011 15:03

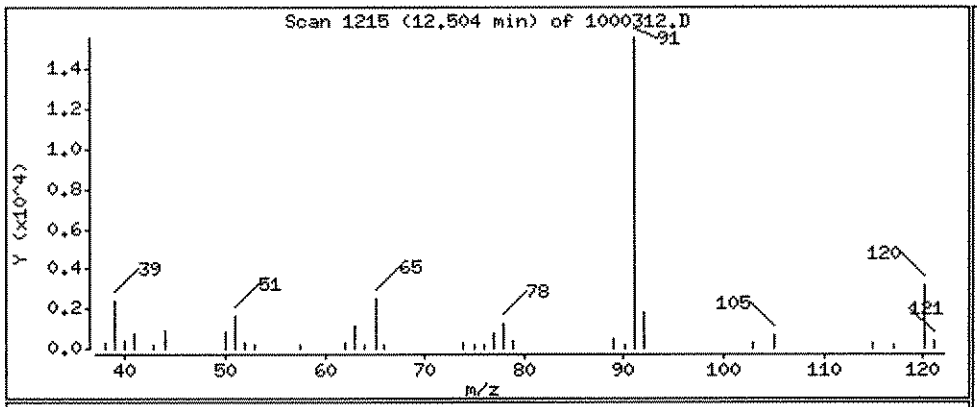
Client ID: | Instrument: voa6.i

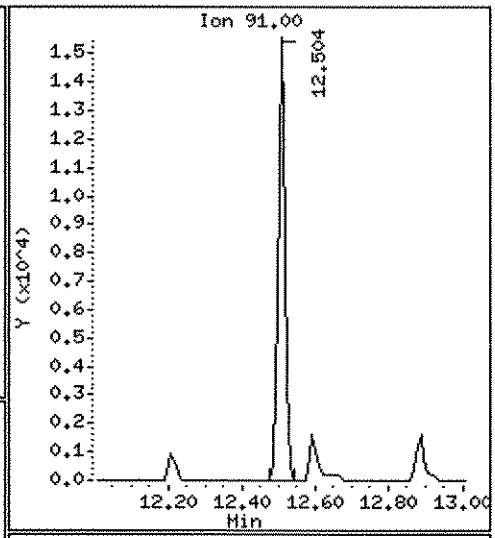
Sample Info: 1110003-12;;;;

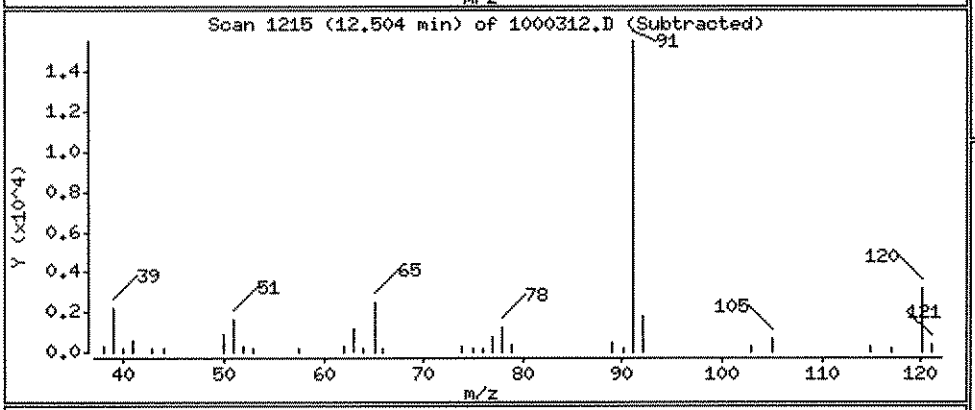
Purge Volume: 5.0 | Operator: ADM

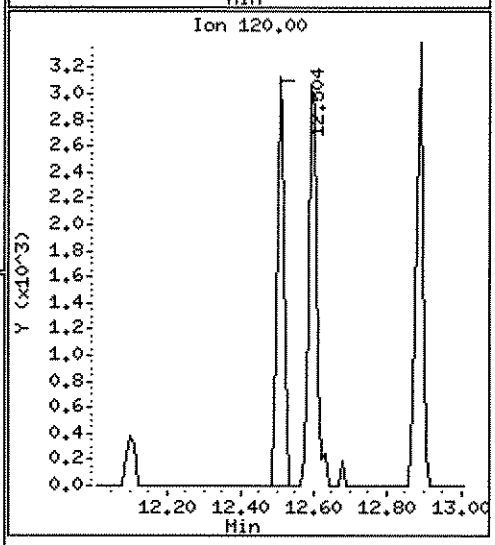
Column phase: RTX-VRX | Column diameter: 0.25

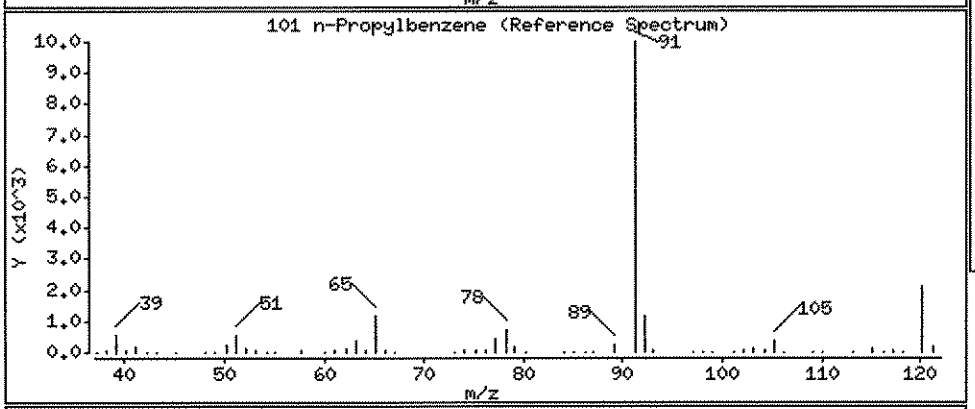
101 n-Propylbenzene | Concentration: 0.7904 ug/L

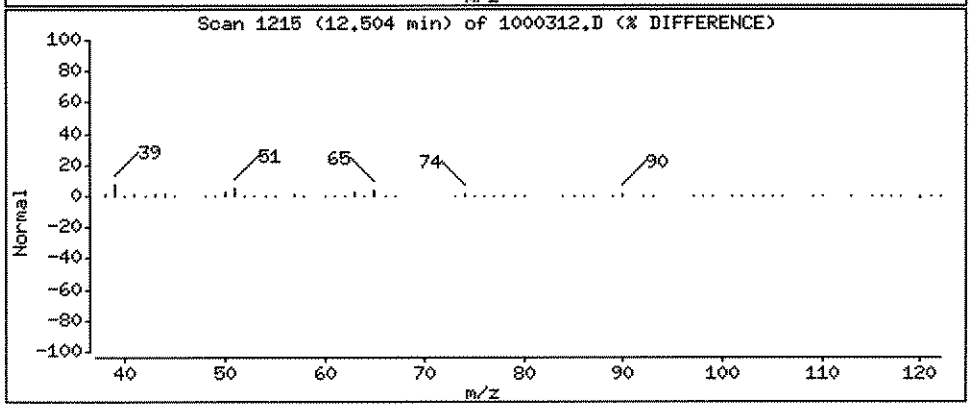












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Date : 05-OCT-2011 15:03

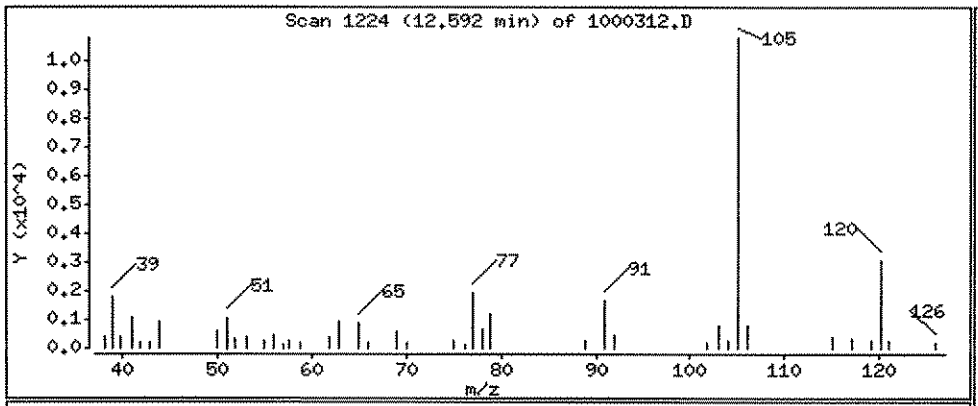
Client ID: Instrument: voa6.i

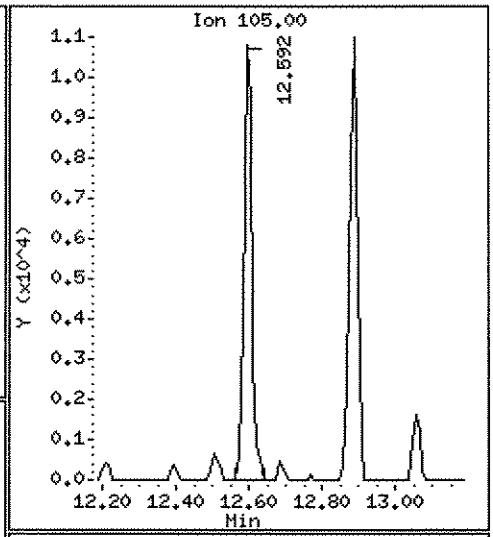
Sample Info: 1110003-12;;;;

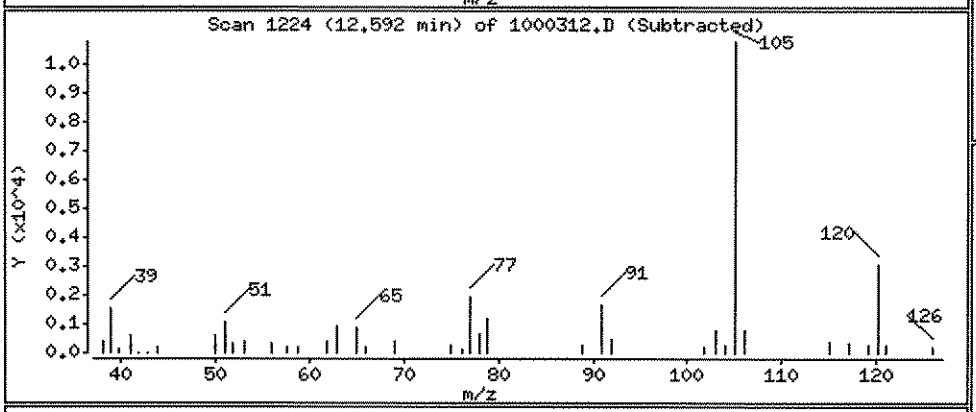
Purge Volume: 5.0 Operator: ADM

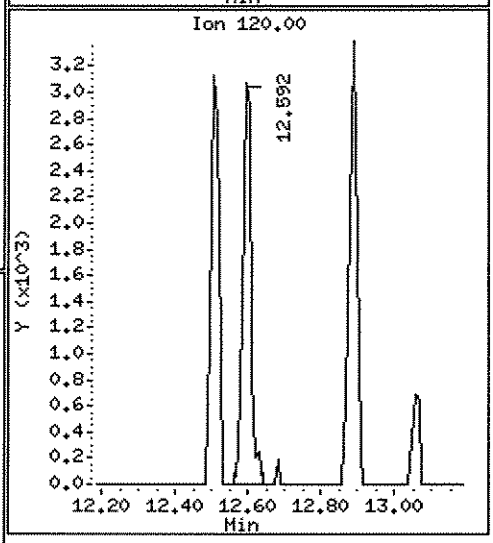
Column phase: RTX-VRX Column diameter: 0.25

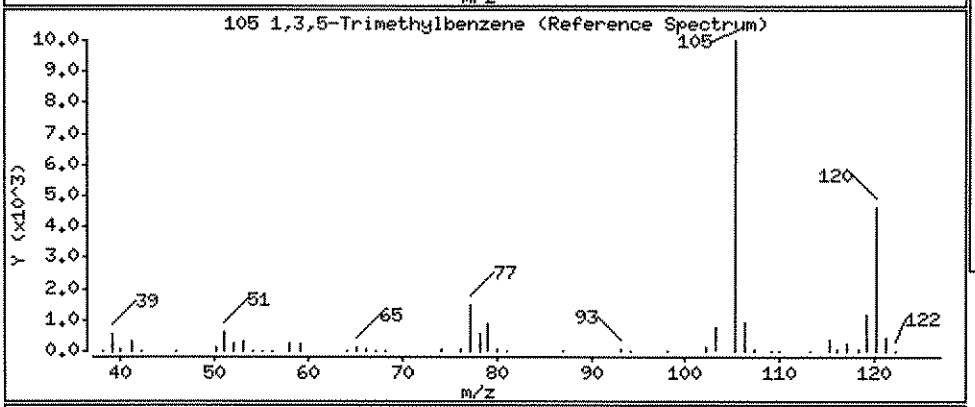
105 1,3,5-Trimethylbenzene Concentration: 0.8737 ug/L

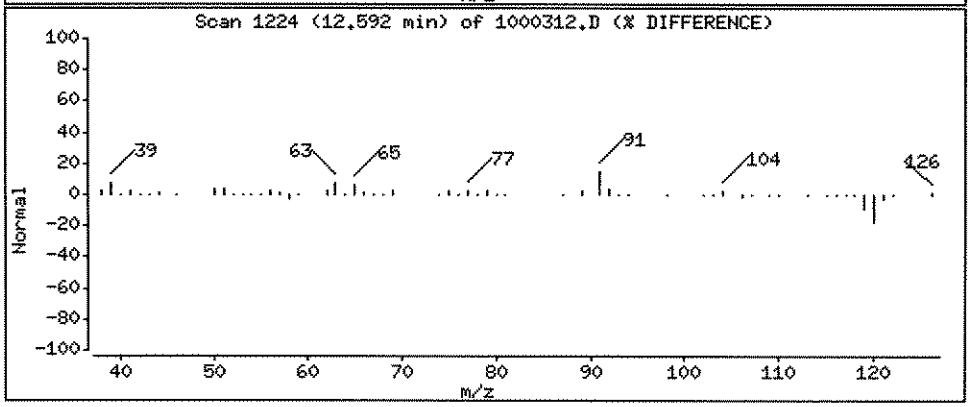












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Date : 05-OCT-2011 15:03

Client ID:

Instrument: voa6.i

Sample Info: 1110003-12;;;;

Purge Volume: 5.0

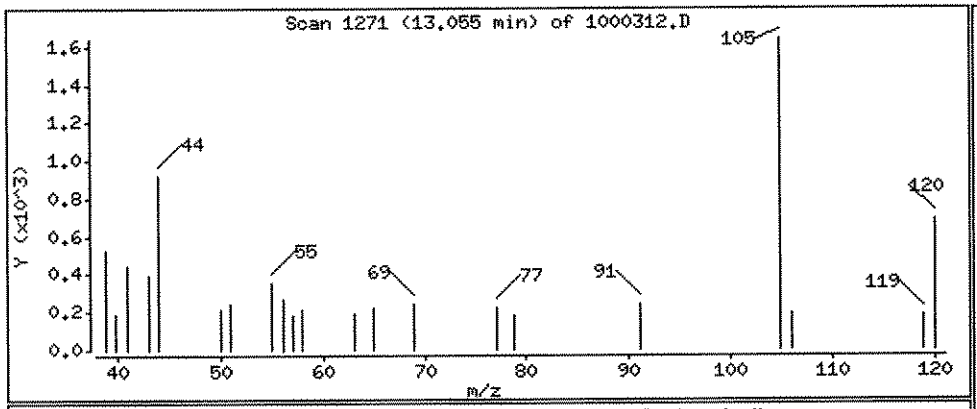
Operator: ADM

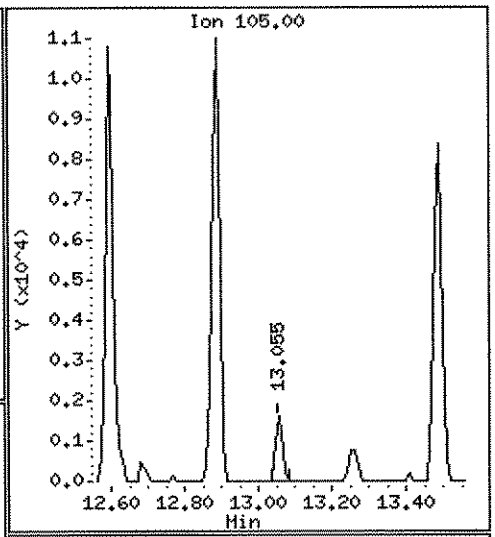
Column phase: RTX-VRX

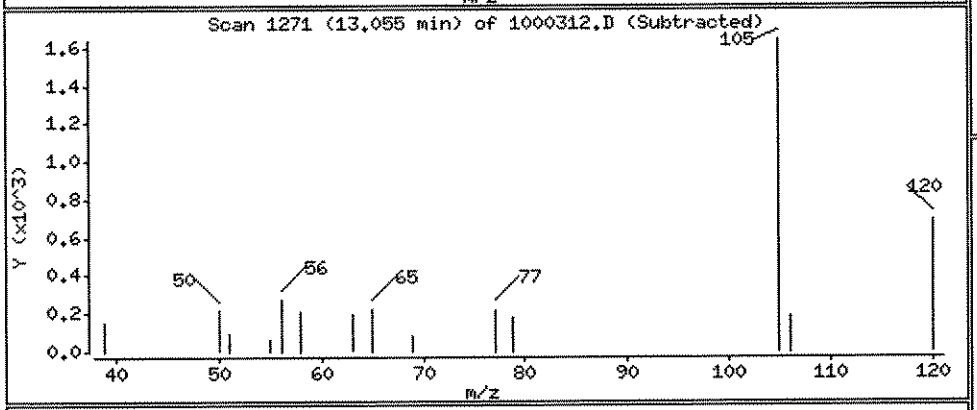
Column diameter: 0.25

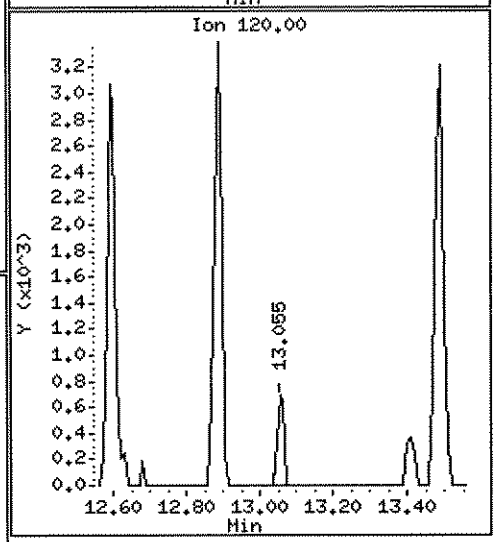
108 1,2,4-Trimethylbenzene

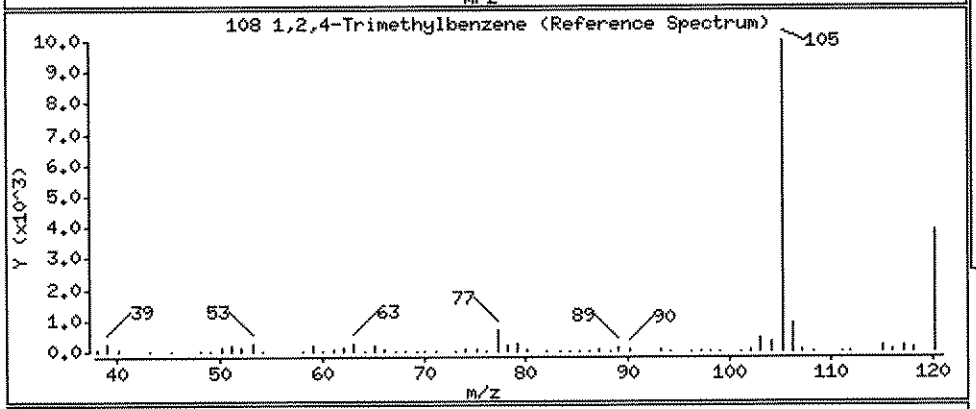
Concentration: 0.1190 ug/L

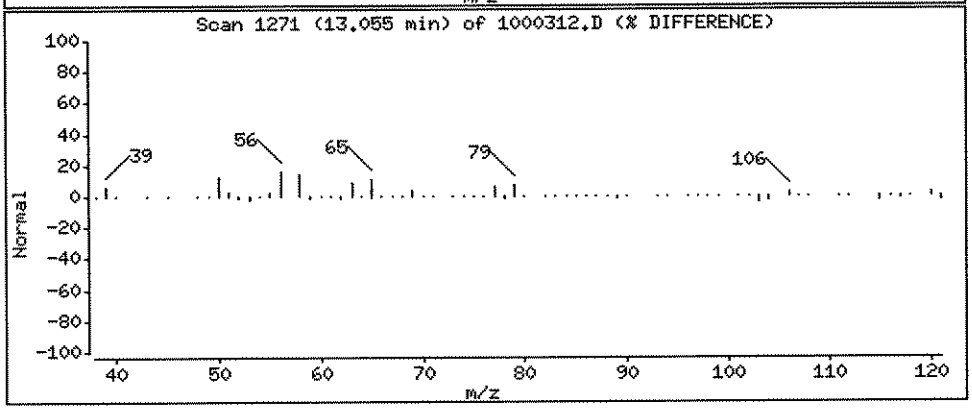












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Date : 05-OCT-2011 15:03

Client ID:

Instrument: voa6.i

Sample Info: 1110003-12;;;;

Purge Volume: 5.0

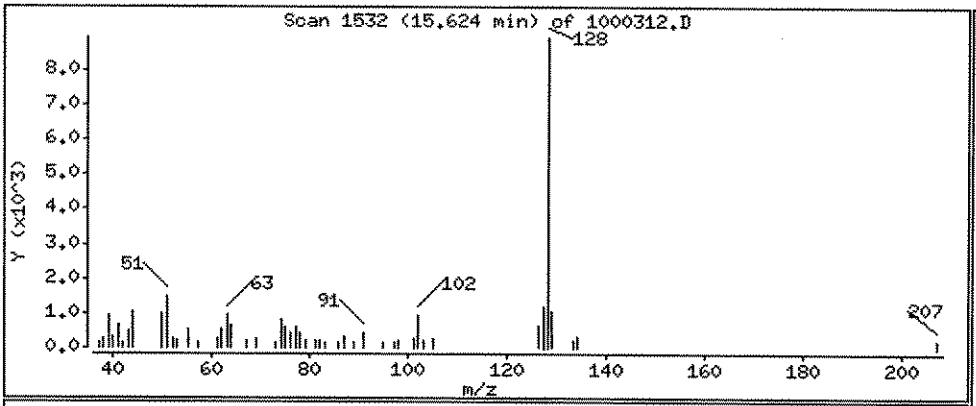
Operator: ADM

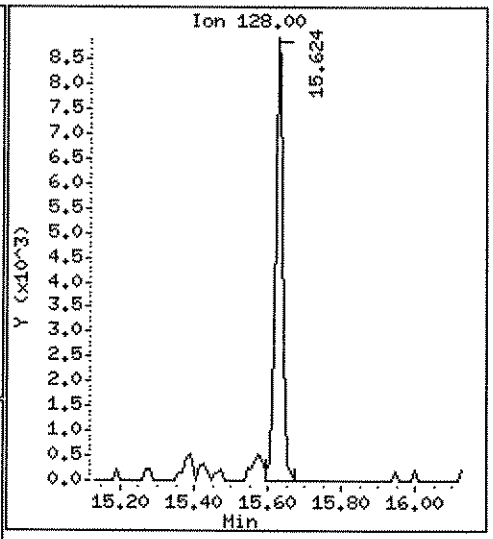
Column phase: RTX-VRX

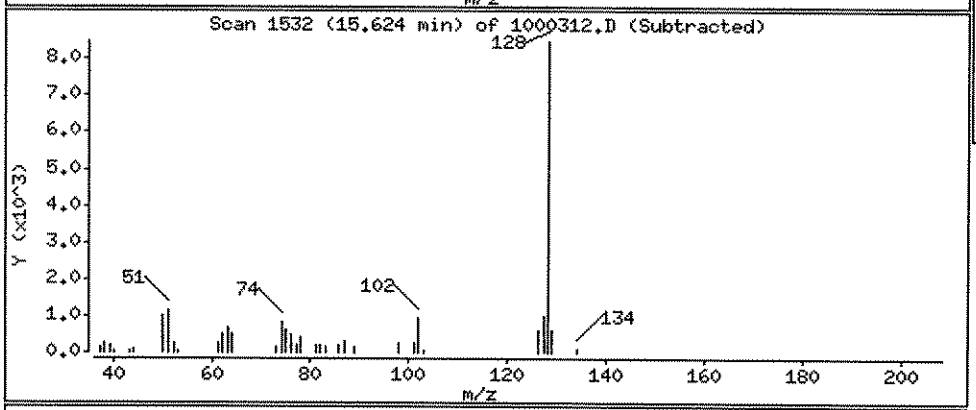
Column diameter: 0.25

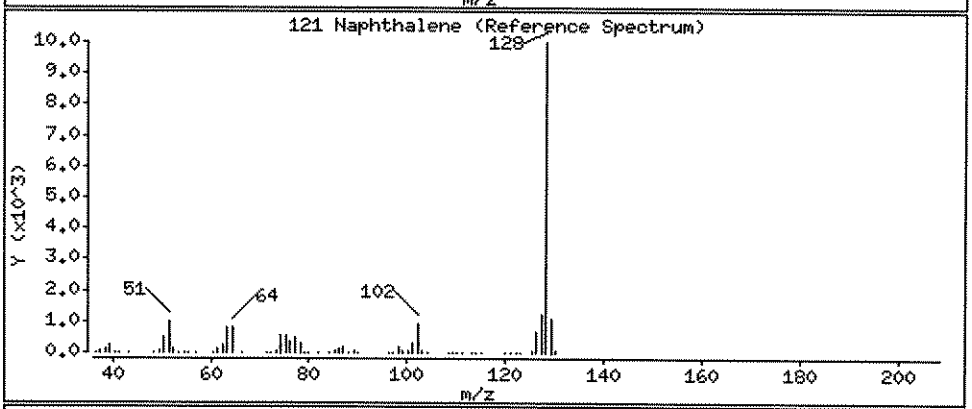
121 Naphthalene

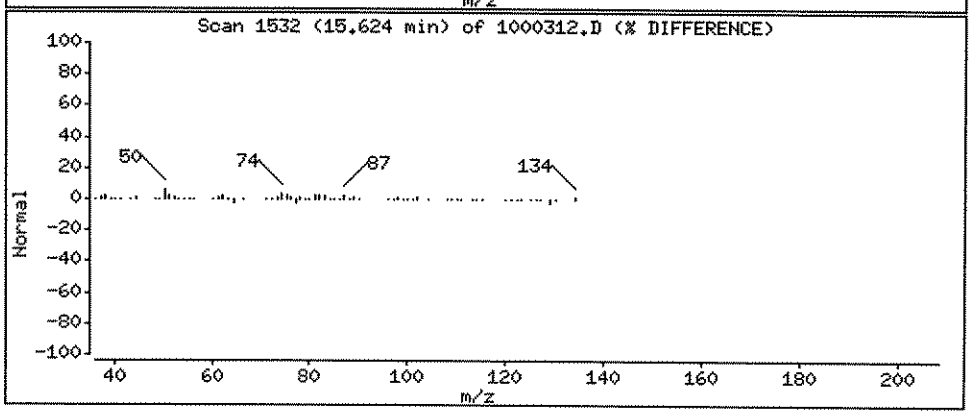
Concentration: 1.026 ug/L











Data File: \\ELABNSH05\TARGET\chem\voa6.i\100511V6.b\1000314.D
Report Date: 06-Oct-2011 08:58

Laboratory Name

Data file : \\ELABNSH05\TARGET\chem\voa6.i\100511V6.b\1000314.D
Lab Smp Id: 1110003-14
Inj Date : 05-OCT-2011 15:29 MS Autotune Date: 13-SEP-2011 09:32
Operator : ADM Inst ID: voa6.i
Smp Info : 1110003-14;;;;
Misc Info : ;0;;;;8260.sub;
Comment :
Method : \\ELABNSH05\TARGET\chem\voa6.i\100511V6.b\VW6SUR.m
Meth Date : 06-Oct-2011 08:55 ghallquist Quant Type: ISTD
Cal Date : 13-SEP-2011 18:30 Cal File: 0913CAL9.D
Als bottle: 16
Dil Factor: 1.00000
Integrator: HP RTE Compound Sublist: 8260.sub
Target Version: 4.04
Processing Host: TARGET10_VM

Concentration Formula: Amt * DF * 5*Uf/Vo

Name	Value	Description
DF	1.000	Dilution Factor
Uf	1.000	unit correction factor
Vo	5.000	Volume of sample purged (mL)

10/6/11

10-6-11

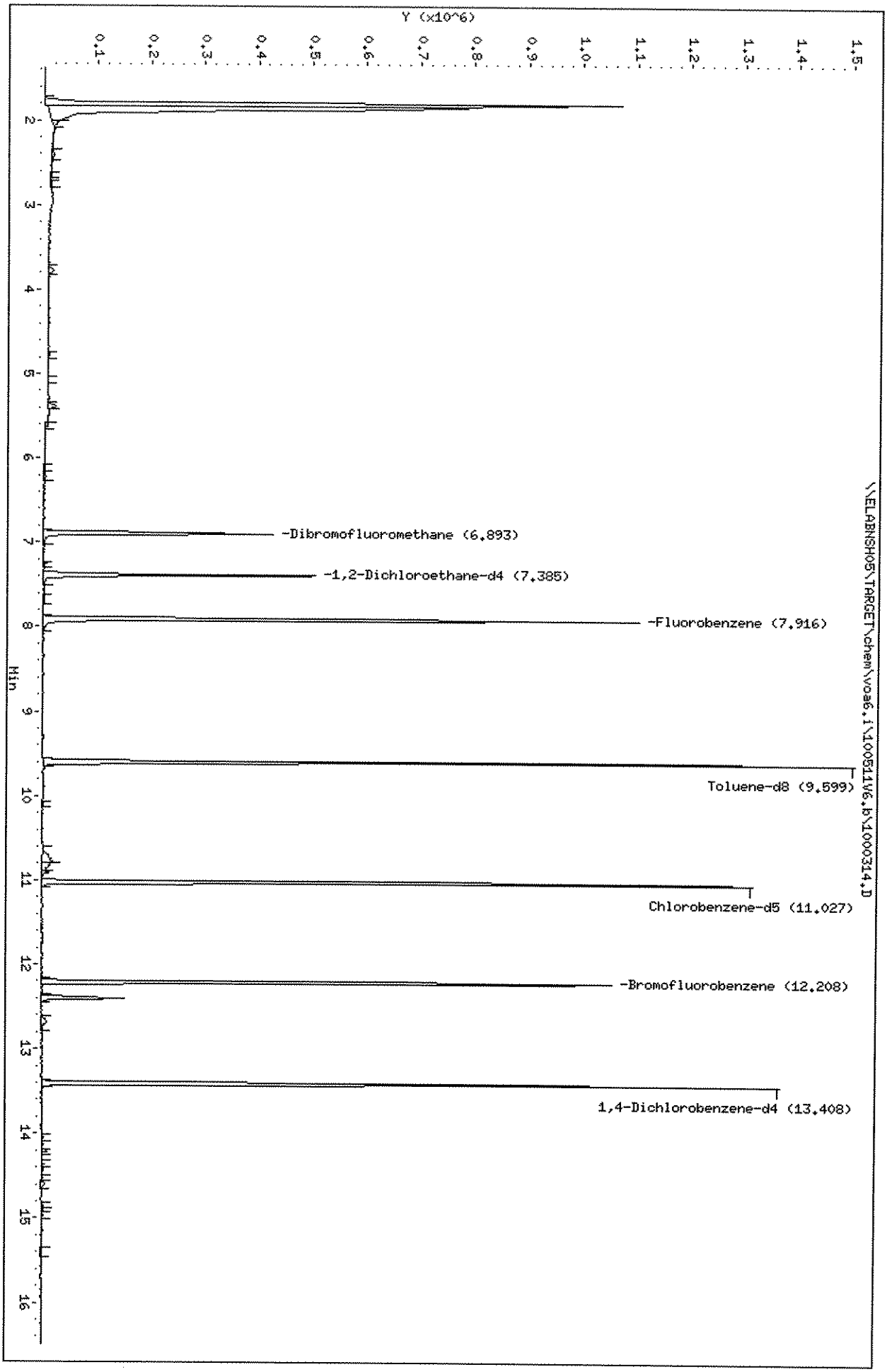
Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS ON-COLUMN (ug/L)	FINAL (ug/L)
* 55 Fluorobenzene	96	7.916	7.912	(1.000)	789836	30.0000	
9 Acetone	43	3.772	3.788	(0.477)	22199	6.99395	6.994(a)
20 Carbon disulfide	76	4.767	4.783	(0.602)	4745	0.27110	0.2711(a)
$ 41 Dibromofluoromethane	111	6.892	6.899	(0.871)	249877	30.4627	30.46
$ 45 1,2-Dichloroethane-d4	102	7.394	7.391	(0.934)	46713	27.3126	27.31(Q)
$ 75 Toluene-d8	98	9.599	9.595	(0.871)	749484	31.9379	31.94
* 86 Chlorobenzene-d5	82	11.026	11.022	(1.000)	356906	30.0000	
$ 99 Bromofluorobenzene	95	12.207	12.213	(1.107)	316519	30.2857	30.28
* 112 1,4-Dichlorobenzene-d4	152	13.408	13.414	(1.000)	255582	30.0000	(Q)

QC Flag Legend

a - Target compound detected but, quantitated amount
Below Limit Of Quantitation(BLOQ).
Q - Qualifier signal failed the ratio test.

Data File: \\ELABNSH05\TARGET\chem\voa6.i\100511V6.b\1000314.D
Date : 05-OCT-2011 15:29
Client ID:
Sample Info: 1110003-14;;;;
Purge Volume: 5.0
Column phase: RTX-VRX

Instrument: voa6.i
Operator: ADM
Column diameter: 0.25



Data File: \\ELABNSH05\TARGET\chem\voa6.i\100511V6.b\1000314.D

Date : 05-OCT-2011 15:29

Client ID:

Instrument: voa6.i

Sample Info: 1110003-14;;;;

Purge Volume: 5.0

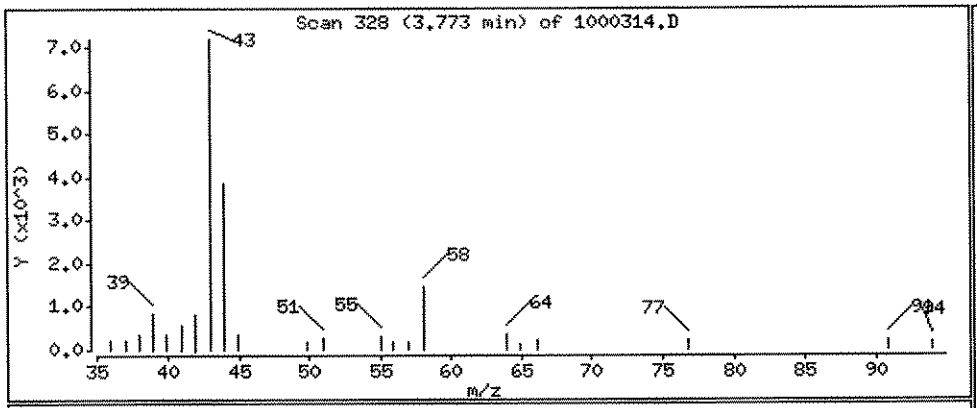
Operator: ADM

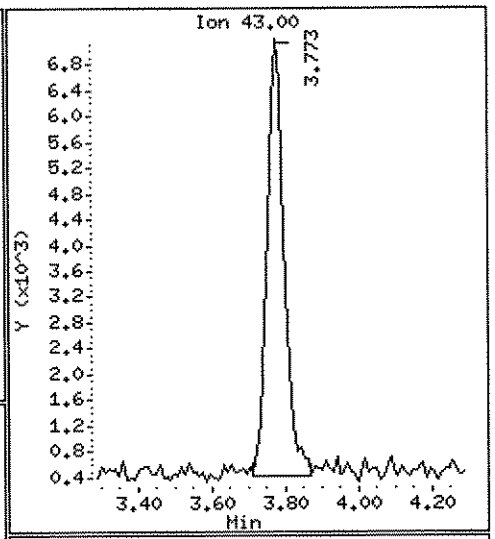
Column phase: RTX-VRX

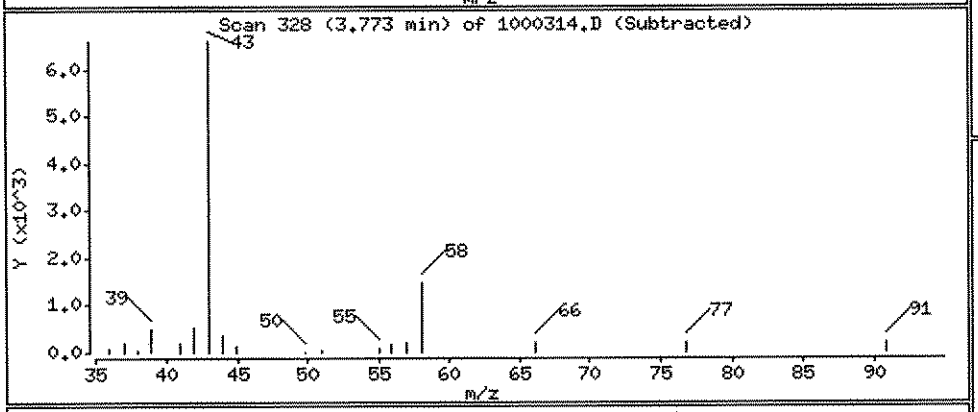
Column diameter: 0.25

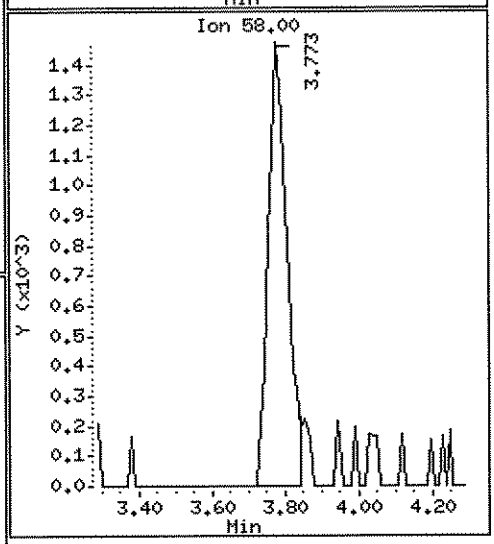
9 Acetone

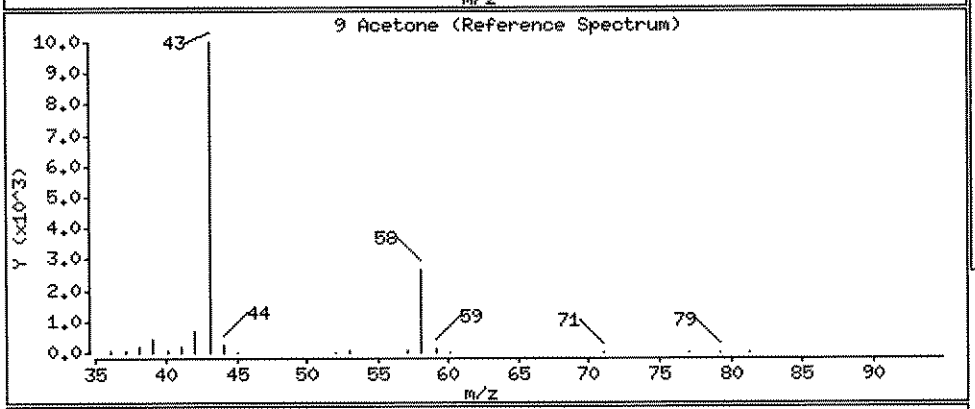
Concentration: 6.994 ug/L

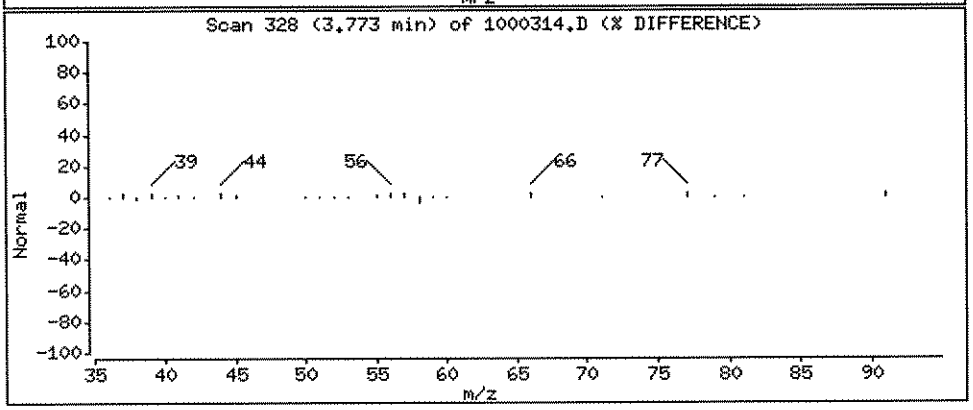












Data File: \\ELABNSH05\TARGET\chem\voa6.i\100511V6.b\1000314.D

Date : 05-OCT-2011 15:29

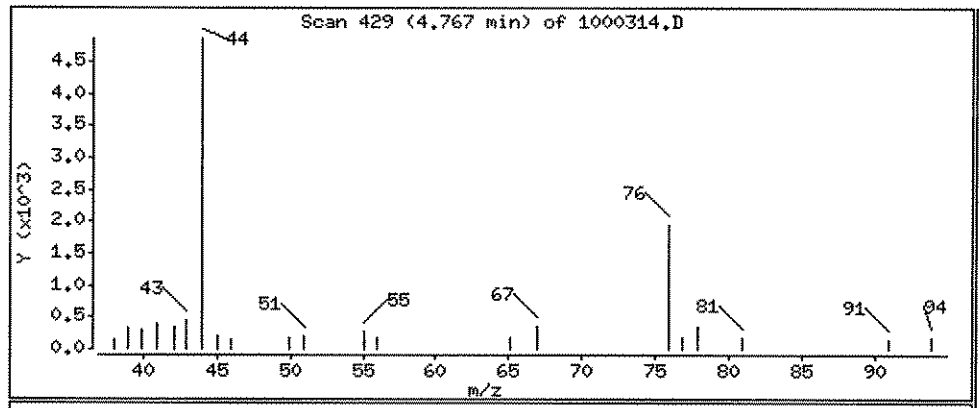
Client ID: | Instrument: voa6.i

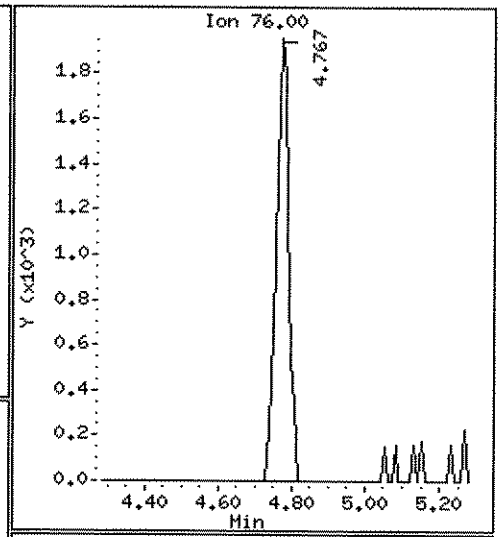
Sample Info: 1110003-14;;;;

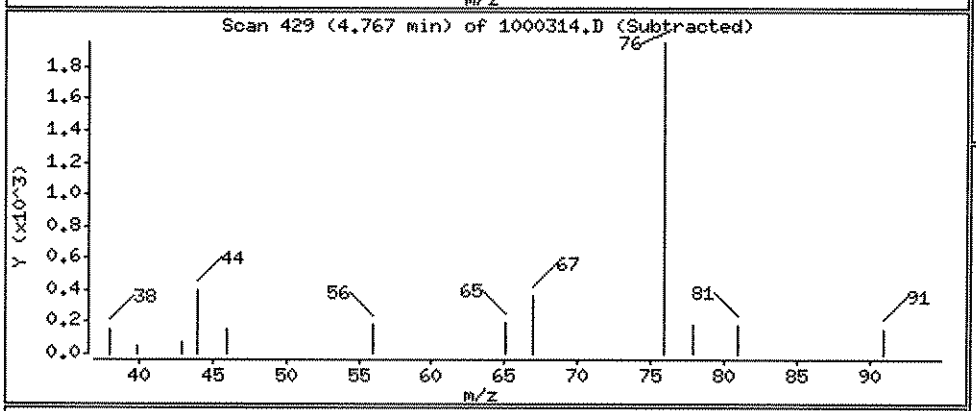
Purge Volume: 5.0 | Operator: ADM

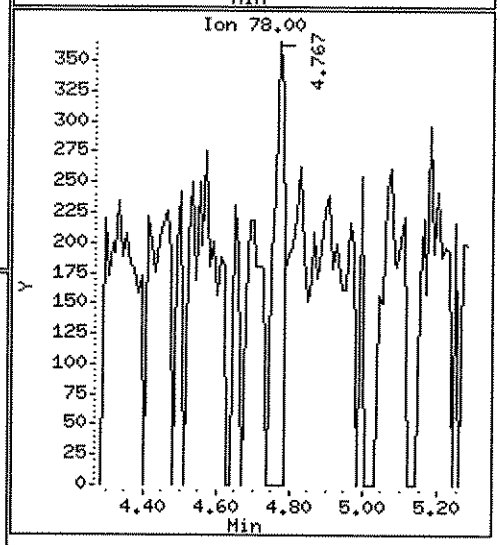
Column phase: RTX-VRX | Column diameter: 0.25

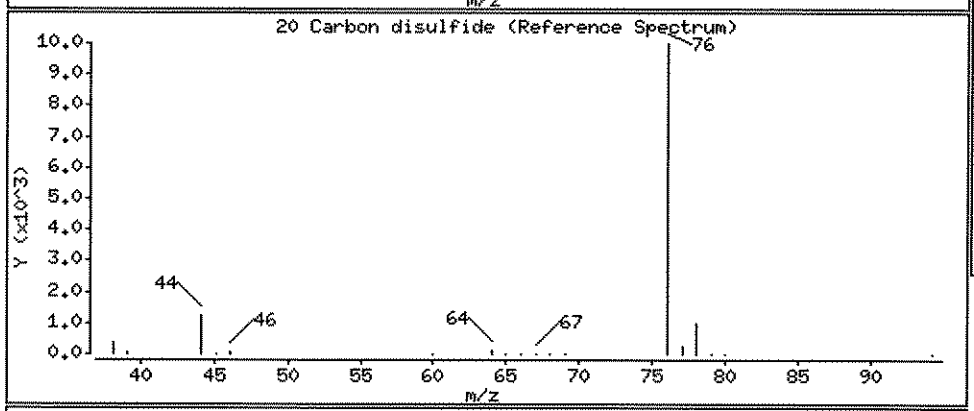
20 Carbon disulfide | Concentration: 0.2711 ug/L

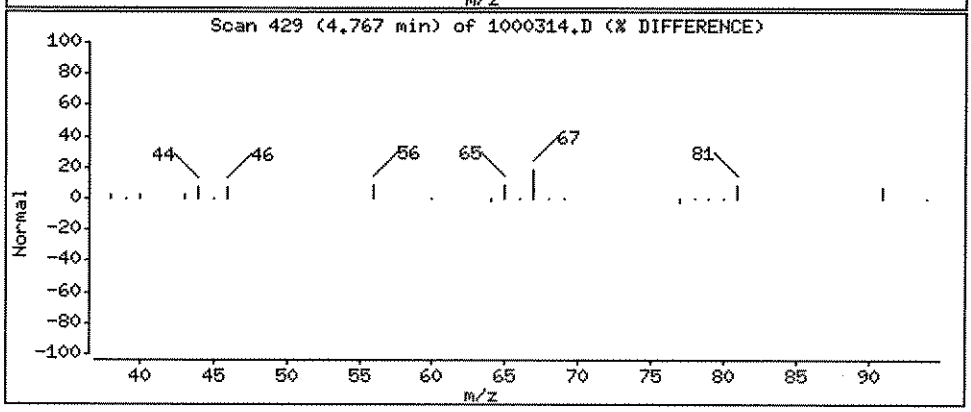












Data File: \\ELABNSH05\TARGET\chem\voa6.i\100511V6.b\1000312M.D
Report Date: 06-Oct-2011 08:59

Laboratory Name

Data file : \\ELABNSH05\TARGET\chem\voa6.i\100511V6.b\1000312M.D
Lab Smp Id: 1J05008-MS1 Client Smp ID: 1J05008-MS1
Inj Date : 05-OCT-2011 18:09 MS Autotune Date: 13-SEP-2011 09:32
Operator : ADM Inst ID: voa6.i
Smp Info : 1J05008-MS1;;;;
Misc Info : ;3;MS;;;8260.sub;
Comment :
Method : \\ELABNSH05\TARGET\chem\voa6.i\100511V6.b\VW6SUR.m
Meth Date : 06-Oct-2011 08:55 ghallquist Quant Type: ISTD
Cal Date : 13-SEP-2011 18:30 Cal File: 0913CAL9.D
Als bottle: 22 QC Sample: MS
Dil Factor: 1.00000
Integrator: HP RTE Compound Sublist: 8260.sub
Target Version: 4.04
Processing Host: TARGET10_VM

Concentration Formula: Amt * DF * 5*Uf/Vo

Name	Value	Description
DF	1.000	Dilution Factor
Uf	1.000	unit correction factor
Vo	5.000	Volume of sample purged (mL)

10/6/11

10-6-11

Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS ON-COLUMN (ug/L)	FINAL (ug/L)
* 55 Fluorobenzene	96	7.917	7.912	(1.000)	866084	30.0000	
1 Dichlorodifluoromethane	85	2.021	2.017	(0.255)	361666	50.0920	50.09
2 Chloromethane	50	2.238	2.233	(0.283)	323572	37.6338	37.63
3 Vinyl chloride	62	2.385	2.381	(0.301)	396787	53.4847	53.48
4 Bromomethane	94	2.828	2.824	(0.357)	69516	15.3047	15.30
5 Chloroethane	64	2.966	2.962	(0.375)	249110	53.0916	53.09
6 Trichlorofluoromethane	101	3.478	3.464	(0.439)	615916	53.4766	53.48
10 Ethyl Ether	59	3.921	3.907	(0.495)	247881	40.2152	40.22
22 Acetonitrile	41	3.872	3.857	(0.489)	504201	406.969	407.0
14 Trichlorotrifluoroethane	101	4.344	4.330	(0.549)	250718	40.9929	40.99
7 Acrolein	56	3.685	3.670	(0.465)	297790	212.563	212.6
36 Allyl chloride	41	4.708	4.684	(0.595)	714627	53.0181	53.02
13 1,1-Dichloroethene	96	4.275	4.251	(0.540)	233320	41.3550	41.35(Q)
9 Acetone	43	3.803	3.788	(0.480)	288437	82.8737	82.87
15 t-Butyl alcohol	59	4.433	4.418	(0.560)	170588	187.819	187.8
16 Iodomethane	142	4.462	4.448	(0.564)	229727	26.5819	26.58

Data File: \\ELABNSH05\TARGET\chem\voa6.i\100511V6.b\1000312M.D
Report Date: 06-Oct-2011 08:59

	Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS ON-COLUMN (ug/L)	FINAL (ug/L)
	20 Carbon disulfide	76	4.797	4.783	(0.606)	824813	42.9759	42.98
	19 Methylene chloride	84	4.748	4.733	(0.600)	310097	44.0494	44.05
	18 Acrylonitrile	53	4.639	4.625	(0.586)	690895	242.625	242.6(Q)
	24 trans-1,2-Dichloroethene	96	5.407	5.403	(0.683)	299854	41.4393	41.44
	23 MTBE	73	5.417	5.403	(0.684)	916397	37.6291	37.63
	26 1,1-Dichloroethane	63	5.781	5.777	(0.730)	702801	43.0674	43.07
	56 Propionitrile	54	5.948	5.944	(0.751)	537855	363.838	363.8
	27 Vinyl acetate	43	5.860	5.845	(0.740)	2055628	83.1642	83.16
	69 Chloroprene	53	6.047	6.032	(0.764)	758389	46.1308	46.13
	32 Di-isopropyl ether	45	6.155	6.141	(0.777)	1580549	39.7594	39.76
	35 cis-1,2-Dichloroethene	96	6.490	6.475	(0.820)	357157	43.7202	43.72(Q)
M	47 1,2-Dichloroethene(total)	96				657011	85.1595	85.16
	33 2-Butanone	43	6.224	6.219	(0.786)	444260	70.8828	70.88
	73 Methacrylonitrile	41	6.401	6.397	(0.809)	3262858	405.126	405.1
	72 Hexane	57	5.988	5.973	(0.756)	357389	36.0651	36.06
	40 Bromochloromethane	128	6.765	6.751	(0.855)	183285	45.1717	45.17
	84 Isobutyl alcohol	43	6.834	6.830	(0.863)	330162	663.011	663.0
	42 Tetrahydrofuran	42	6.952	6.938	(0.878)	127614	37.6459	37.64
	43 tert-Amyl alcohol	59	7.110	7.105	(0.898)	143492	181.037	181.0
	39 Chloroform	83	6.736	6.731	(0.851)	697959	46.3285	46.33
	17 Methyl acetate	43	4.620	4.605	(0.584)	309771	40.9912	40.99
$	41 Dibromofluoromethane	111	6.903	6.899	(0.872)	271251	30.1572	30.16
	44 1,1,1-Trichloroethane	97	7.287	7.282	(0.920)	629110	52.3070	52.31
	38 ETBE	59	6.618	6.603	(0.836)	1326976	40.0360	40.04
	49 Cyclohexane	56	7.562	7.548	(0.955)	512484	35.0509	35.05
	51 Carbon tetrachloride	117	7.631	7.617	(0.964)	522953	52.5598	52.56
$	45 1,2-Dichloroethane-d4	102	7.405	7.391	(0.935)	51910	27.6791	27.68(Q)
	52 Benzene	78	7.661	7.656	(0.968)	1293630	42.5772	42.58
	54 tert-Amyl Methyl Ether	73	7.848	7.843	(0.991)	948449	35.5036	35.50
	46 1,2-Dichloroethane	62	7.493	7.489	(0.947)	722759	47.5015	47.50
	37 2,2-Dichloropropane	77	6.588	6.584	(0.832)	568168	46.1523	46.15
	48 1,1-Dichloropropene	75	7.503	7.499	(0.948)	515656	44.8681	44.87(Q)
	58 Trichloroethene	95	8.409	8.404	(1.062)	373835	47.2960	47.30
	62 1,4-Dioxane	88	8.615	8.611	(1.088)	66369	806.189	806.2(Q)
	59 1,2-Dichloropropane	63	8.458	8.454	(1.068)	375453	41.0405	41.04
	61 Dibromomethane	93	8.576	8.572	(1.083)	242459	42.6055	42.60
	50 Methyl methacrylate	41	8.596	8.591	(1.086)	493857	41.9638	41.96
	63 Bromodichloromethane	83	8.635	8.631	(1.091)	519121	43.4801	43.48
	64 tert-Amyl Ethyl Ether	59	8.724	8.719	(1.102)	1029095	39.1198	39.12
	71 cis-1,3-Dichloropropene	75	9.206	9.202	(1.163)	578933	42.4774	42.48
	70 4-Methyl-2-pentanone	43	9.127	9.133	(1.153)	947615	77.9362	77.94
$	75 Toluene-d8	98	9.600	9.595	(0.871)	828580	30.2607	30.26
	77 Toluene	92	9.678	9.674	(0.878)	800004	43.9782	43.98
	76 trans-1,3-Dichloropropene	75	9.678	9.674	(0.878)	551862	37.2116	37.21
	79 Ethyl methacrylate	69	9.865	9.861	(0.895)	501451	38.6956	38.70
	78 1,1,2-Trichloroethane	83	9.826	9.831	(0.891)	253616	39.9408	39.94
	83 Tetrachloroethene	166	10.407	10.402	(0.944)	311075	46.3991	46.40

Data File: \\ELABNSH05\TARGET\chem\voa6.i\100511V6.b\1000312M.D
Report Date: 06-Oct-2011 08:59

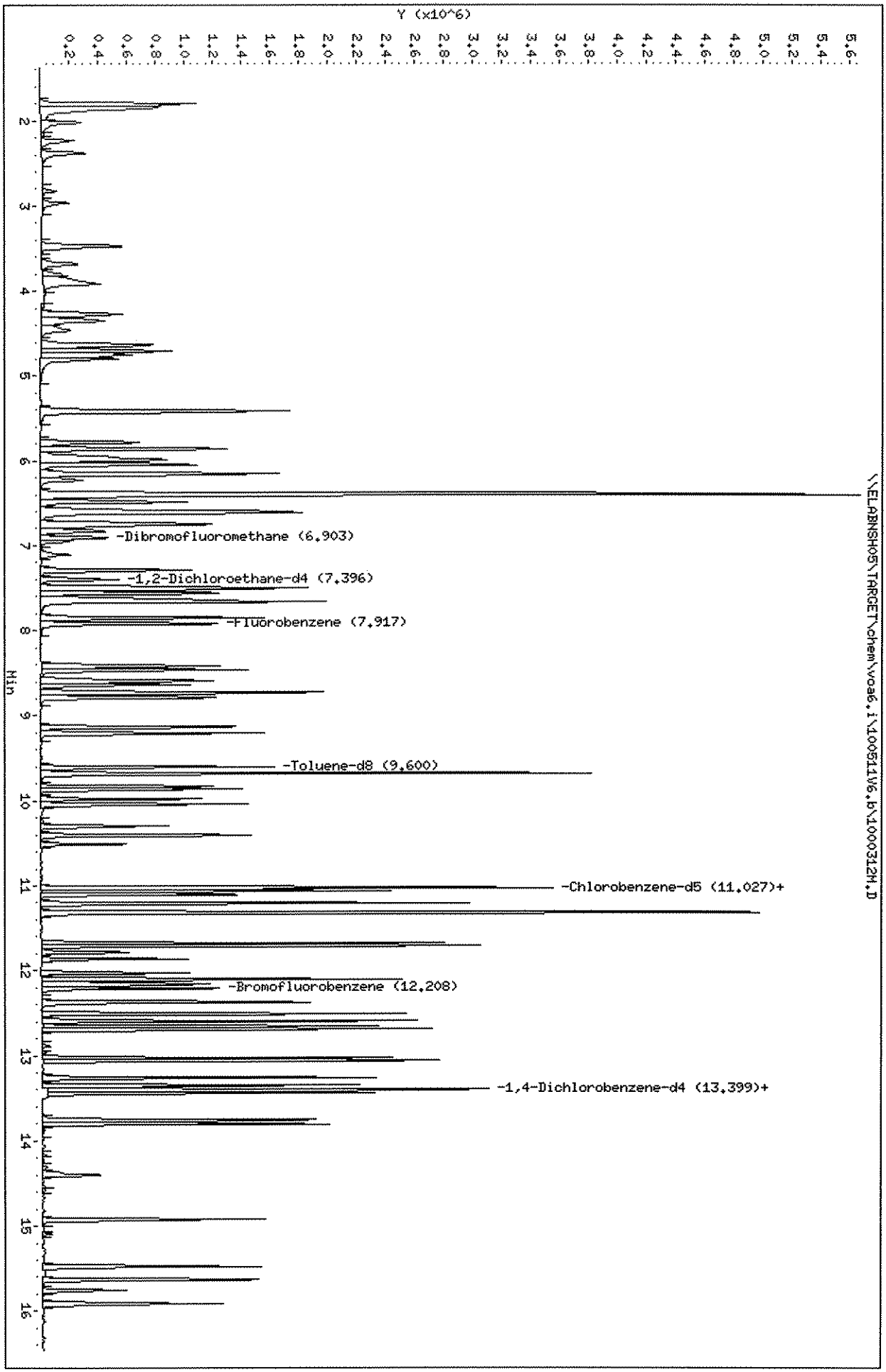
Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS ON-COLUMN (ug/L)	FINAL (ug/L)	
80 2-Hexanone	43	9.974	9.979	(0.905)	686172	75.4655	75.46	
82 Dibromochloromethane	129	10.298	10.294	(0.934)	376556	44.7643	44.76	
85 1,2-Dibromoethane	107	10.505	10.511	(0.953)	358026	43.8984	43.90	
65 Methyl cyclohexane	83	8.783	8.778	(1.109)	327669	33.5704	33.57	
* 86 Chlorobenzene-d5	82	11.027	11.022	(1.000)	416440	30.0000		
88 Chlorobenzene	112	11.056	11.062	(1.003)	967737	46.9118	46.91	
89 1,1,1,2-Tetrachloroethane	131	11.106	11.101	(1.007)	326577	44.7560	44.76	
87 1-Chlorohexane	91	11.027	11.022	(1.000)	428958	39.0883	39.09	
90 Ethylbenzene	91	11.204	11.200	(1.016)	1723613	48.3141	48.31	
91 m,p-Xylene	91	11.322	11.318	(1.027)	2710090	98.3922	98.39	
M 127 Xylene(total)	91				4155467	148.105	148.1	
93 o-Xylene	91	11.706	11.711	(1.062)	1445377	49.7128	49.71	
92 Styrene	104	11.676	11.682	(1.059)	1075502	47.2500	47.25	
95 Bromoform	173	11.785	11.780	(1.069)	226512	48.5334	48.53	
125 cis-1,4-Dichloro-2-butene	75	11.863	11.859	(0.885)	150128	44.0955	44.10	
97 Isopropylbenzene	105	12.100	12.105	(1.097)	1348695	45.4133	45.41	
$ 99 Bromofluorobenzene	95	12.208	12.213	(1.107)	380778	31.2256	31.22	
96 1,1,2,2-Tetrachloroethane	83	12.031	12.026	(0.897)	442219	44.3941	44.39	
81 1,3-Dichloropropane	76	10.043	10.038	(0.911)	557630	41.9506	41.95	
98 1,2,3-Trichloropropane	110	12.149	12.154	(1.102)	134719	47.3999	47.40	
124 trans-1,4-Dichloro-2-butene	53	12.168	12.174	(0.908)	210781	45.3213	45.32	
101 n-Propylbenzene	91	12.513	12.509	(0.933)	1823170	47.3692	47.37	
105 1,3,5-Trimethylbenzene	105	12.690	12.686	(0.946)	1297868	49.8078	49.81	
108 1,2,4-Trimethylbenzene	105	13.054	13.060	(0.974)	1323131	49.1042	49.10	
109 sec-Butylbenzene	105	13.261	13.257	(0.989)	1333364	44.5631	44.56	
107 tert-Butylbenzene	119	13.025	13.030	(0.971)	1109688	47.5396	47.54	
110 1,3-Dichlorobenzene	146	13.349	13.345	(0.996)	674112	47.9128	47.91	
* 112 1,4-Dichlorobenzene-d4	152	13.409	13.414	(1.000)	345101	30.0000		(Q)
113 1,4-Dichlorobenzene	146	13.438	13.444	(1.002)	691439	48.3839	48.38	
115 n-Butylbenzene	91	13.802	13.798	(1.029)	973581	43.0485	43.05	
114 1,2-Dichlorobenzene	146	13.763	13.758	(1.026)	644832	48.0762	48.08	
118 1,2-Dibromo-3-chloropropane	157	14.403	14.398	(1.074)	80044	48.5385	48.54	
119 1,3,5-Trichlorobenzene	180	14.924	14.920	(1.113)	394733	47.8166	47.82	
100 Bromobenzene	156	12.375	12.371	(0.923)	372398	47.4230	47.42	
102 2-Chlorotoluene	91	12.592	12.597	(0.939)	1186632	48.5694	48.57	
103 4-Chlorotoluene	91	12.651	12.656	(0.943)	1375527	48.8136	48.81	
120 1,2,4-Trichlorobenzene	180	15.475	15.471	(1.154)	363023	47.6302	47.63	
121 Naphthalene	128	15.633	15.628	(1.166)	1056492	57.8708	57.87	
111 p-Isopropyltoluene	119	13.399	13.394	(0.999)	1093743	43.6165	43.62	
122 Hexachlorobutadiene	225	15.761	15.756	(1.175)	111952	32.3926	32.39	
123 1,2,3-Trichlorobenzene	180	15.918	15.914	(1.187)	332324	51.4513	51.45	

QC Flag Legend

Q - Qualifier signal failed the ratio test.

Data File: \\ELABNSH05\TARGET\chem\voa6.i\100511V6.b\1000312H.D
Date : 05-OCT-2011 18:09
Client ID: 1J05008-HS1
Sample Info: 1J05008-HS1;;;;
Purge Volume: 5.0
Column phase: RTX-VRX

Instrument: voa6.i
Operator: ADM
Column diameter: 0.25



Data File: \\ELABNSH05\TARGET\chem\voa6.i\100511V6.b\1000312S.D
Report Date: 06-Oct-2011 08:59

Laboratory Name

Data file : \\ELABNSH05\TARGET\chem\voa6.i\100511V6.b\1000312S.D
Lab Smp Id: 1J05008-MSD1 Client Smp ID: 1J05008-MSD1
Inj Date : 05-OCT-2011 18:36 MS Autotune Date: 13-SEP-2011 09:32
Operator : ADM Inst ID: voa6.i
Smp Info : 1J05008-MSD1;;;;
Misc Info : ;3;MSD;;;8260.sub;
Comment :
Method : \\ELABNSH05\TARGET\chem\voa6.i\100511V6.b\VW6SUR.m
Meth Date : 06-Oct-2011 08:55 ghallquist Quant Type: ISTD
Cal Date : 13-SEP-2011 18:30 Cal File: 0913CAL9.D
Als bottle: 23 QC Sample: MSD
Dil Factor: 1.00000
Integrator: HP RTE Compound Sublist: 8260.sub
Target Version: 4.04
Processing Host: TARGET10_VM

Concentration Formula: Amt * DF * 5*Uf/Vo

Name	Value	Description
DF	1.000	Dilution Factor
Uf	1.000	unit correction factor
Vo	5.000	Volume of sample purged (mL)

10/6/11

10-6-11

Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS ON-COLUMN (ug/L)	FINAL (ug/L)
* 55 Fluorobenzene	96	7.921	7.912	(1.000)	951696	30.0000	
1 Dichlorodifluoromethane	85	2.016	2.017	(0.255)	405065	51.0561	51.06
2 Chloromethane	50	2.233	2.233	(0.282)	385387	40.7911	40.79
3 Vinyl chloride	62	2.380	2.381	(0.301)	471764	57.8707	57.87
4 Bromomethane	94	2.823	2.824	(0.356)	71212	14.2677	14.27(R)
5 Chloroethane	64	2.961	2.962	(0.374)	350799	68.0386	68.04(R)
6 Trichlorofluoromethane	101	3.463	3.464	(0.437)	665897	52.6152	52.62
10 Ethyl Ether	59	3.906	3.907	(0.493)	276876	40.8784	40.88
22 Acetonitrile	41	3.867	3.857	(0.488)	566418	416.061	416.1
14 Trichlorotrifluoroethane	101	4.339	4.330	(0.548)	273958	40.7633	40.76
7 Acrolein	56	3.670	3.670	(0.463)	378190	245.668	245.7
36 Allyl chloride	41	4.693	4.684	(0.593)	650636	43.9283	43.93
13 1,1-Dichloroethene	96	4.260	4.251	(0.538)	263992	42.5822	42.58(Q)
9 Acetone	43	3.788	3.788	(0.478)	355197	92.8746	92.87
15 t-Butyl alcohol	59	4.418	4.418	(0.558)	211944	212.361	212.4
16 Iodomethane	142	4.447	4.448	(0.561)	258973	27.2283	27.23

Data File: \\ELABNSH05\TARGET\chem\voa6.i\100511V6.b\1000312S.D
Report Date: 06-Oct-2011 08:59

	Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS ON-COLUMN (ug/L)	FINAL (ug/L)
	20 Carbon disulfide	76	4.782	4.783	(0.604)	851290	40.3654	40.36
	19 Methylene chloride	84	4.742	4.733	(0.599)	308051	39.8224	39.82
	18 Acrylonitrile	53	4.624	4.625	(0.584)	719493	229.939	229.9(Q)
	24 trans-1,2-Dichloroethene	96	5.402	5.403	(0.682)	330670	41.5871	41.59
	23 MTBE	73	5.402	5.403	(0.682)	1014250	37.9006	37.90
	26 1,1-Dichloroethane	63	5.776	5.777	(0.729)	763839	42.5971	42.60
	56 Propionitrile	54	5.943	5.944	(0.750)	642461	395.504	395.5
	27 Vinyl acetate	43	5.855	5.845	(0.739)	2313180	85.1654	85.16
	69 Chloroprene	53	6.032	6.032	(0.761)	798547	44.2040	44.20
	32 Di-isopropyl ether	45	6.150	6.141	(0.776)	1659943	38.0003	38.00
	35 cis-1,2-Dichloroethene	96	6.475	6.475	(0.817)	388445	43.2727	43.27(Q)
M	47 1,2-Dichloroethene(total)	96				719115	84.8599	84.86
	33 2-Butanone	43	6.219	6.219	(0.785)	528593	76.7515	76.75
	73 Methacrylonitrile	41	6.396	6.397	(0.807)	3692003	417.173	417.2
	72 Hexane	57	5.973	5.973	(0.754)	391914	35.9914	35.99
	40 Bromochloromethane	128	6.750	6.751	(0.852)	197112	44.2094	44.21
	84 Isobutyl alcohol	43	6.829	6.830	(0.862)	413831	756.272	756.3
	42 Tetrahydrofuran	42	6.937	6.938	(0.876)	153039	41.0850	41.08
	43 tert-Amyl alcohol	59	7.105	7.105	(0.897)	174893	200.805	200.8
	39 Chloroform	83	6.731	6.731	(0.850)	728789	44.0232	44.02
	17 Methyl acetate	43	4.615	4.605	(0.583)	320709	38.6210	38.62
$	41 Dibromofluoromethane	111	6.898	6.899	(0.871)	291364	29.4793	29.48
	44 1,1,1-Trichloroethane	97	7.282	7.282	(0.919)	652571	49.3768	49.38
	38 ETBE	59	6.603	6.603	(0.834)	1421640	39.0337	39.03
	49 Cyclohexane	56	7.557	7.548	(0.954)	556913	34.6632	34.66
	51 Carbon tetrachloride	117	7.626	7.617	(0.963)	536139	49.0377	49.04
$	45 1,2-Dichloroethane-d4	102	7.400	7.391	(0.934)	58344	28.3113	28.31
	52 Benzene	78	7.656	7.656	(0.966)	1411369	42.2736	42.27
	54 tert-Amyl Methyl Ether	73	7.843	7.843	(0.990)	1039764	35.4205	35.42
	46 1,2-Dichloroethane	62	7.488	7.489	(0.945)	758473	45.3645	45.36
	37 2,2-Dichloropropane	77	6.583	6.584	(0.831)	580914	42.9428	42.94
	48 1,1-Dichloropropene	75	7.498	7.499	(0.947)	555757	44.0073	44.01(Q)
	58 Trichloroethene	95	8.414	8.404	(1.062)	394653	45.4382	45.44
	62 1,4-Dioxane	88	8.610	8.611	(1.087)	81996	906.413	906.4(Q)
	59 1,2-Dichloropropane	63	8.453	8.454	(1.067)	411983	40.9824	40.98
	61 Dibromomethane	93	8.571	8.572	(1.082)	263566	42.1481	42.15
	50 Methyl methacrylate	41	8.591	8.591	(1.084)	551056	42.6119	42.61
	63 Bromodichloromethane	83	8.630	8.631	(1.089)	554878	42.2942	42.29
	64 tert-Amyl Ethyl Ether	59	8.728	8.719	(1.102)	1120287	38.7554	38.76
	68 2-Chloroethyl vinyl ether	63	9.132	8.985	(1.153)	1655	0.25916	0.2592(aQR)
	71 cis-1,3-Dichloropropene	75	9.201	9.202	(1.162)	634588	42.3724	42.37
	70 4-Methyl-2-pentanone	43	9.132	9.133	(1.153)	1096988	82.1053	82.10
$	75 Toluene-d8	98	9.595	9.595	(0.871)	922242	32.1473	32.15
	77 Toluene	92	9.673	9.674	(0.878)	856362	44.9321	44.93
	76 trans-1,3-Dichloropropene	75	9.673	9.674	(0.878)	588750	37.8908	37.89
	79 Ethyl methacrylate	69	9.860	9.861	(0.895)	555676	40.9269	40.93
	78 1,1,2-Trichloroethane	83	9.831	9.831	(0.892)	277630	41.7312	41.73

Data File: \\ELABNSH05\TARGET\chem\voa6.i\100511V6.b\1000312S.D
Report Date: 06-Oct-2011 08:59

Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS ON-COLUMN (ug/L)	FINAL (ug/L)
83 Tetrachloroethene	166	10.402	10.402	(0.944)	325957	46.4044	46.40
80 2-Hexanone	43	9.978	9.979	(0.905)	790735	83.0043	83.00
82 Dibromochloromethane	129	10.293	10.294	(0.934)	388144	44.0402	44.04
85 1,2-Dibromoethane	107	10.510	10.511	(0.954)	385047	45.0611	45.06
65 Methyl cyclohexane	83	8.788	8.778	(1.109)	355688	33.1629	33.16
* 86 Chlorobenzene-d5	82	11.022	11.022	(1.000)	436313	30.0000	
88 Chlorobenzene	112	11.061	11.062	(1.004)	1007335	46.6072	46.61
89 1,1,1,2-Tetrachloroethane	131	11.100	11.101	(1.007)	344163	45.0178	45.02
87 1-Chlorohexane	91	11.022	11.022	(1.000)	439690	38.2413	38.24
90 Ethylbenzene	91	11.209	11.200	(1.017)	1781347	47.6582	47.66
91 m,p-Xylene	91	11.317	11.318	(1.027)	2795464	96.8691	96.87
M 127 Xylene(total)	91				4253078	144.719	144.7
93 o-Xylene	91	11.711	11.711	(1.063)	1457614	47.8502	47.85
92 Styrene	104	11.681	11.682	(1.060)	1087180	45.5876	45.59
95 Bromoform	173	11.780	11.780	(1.069)	241209	49.3284	49.33
125 cis-1,4-Dichloro-2-butene	75	11.868	11.859	(0.885)	161592	46.7559	46.76
97 Isopropylbenzene	105	12.104	12.105	(1.098)	1391606	44.7239	44.72
$ 99 Bromofluorobenzene	95	12.213	12.213	(1.108)	395011	30.9174	30.92
96 1,1,2,2-Tetrachloroethane	83	12.026	12.026	(0.897)	474702	46.9454	46.94
81 1,3-Dichloropropane	76	10.037	10.038	(0.911)	605962	43.5102	43.51
98 1,2,3-Trichloropropane	110	12.154	12.154	(1.103)	146633	49.2419	49.24
124 trans-1,4-Dichloro-2-butene	53	12.173	12.174	(0.908)	229657	48.6445	48.64
101 n-Propylbenzene	91	12.508	12.509	(0.932)	1895164	48.5064	48.51
105 1,3,5-Trimethylbenzene	105	12.685	12.686	(0.946)	1335040	50.4714	50.47
108 1,2,4-Trimethylbenzene	105	13.059	13.060	(0.974)	1375953	50.3041	50.30
109 sec-Butylbenzene	105	13.266	13.257	(0.989)	1359636	44.7645	44.76
107 tert-Butylbenzene	119	13.029	13.030	(0.971)	1145743	48.3532	48.35
110 1,3-Dichlorobenzene	146	13.354	13.345	(0.996)	685735	48.0131	48.01
* 112 1,4-Dichlorobenzene-d4	152	13.413	13.414	(1.000)	350318	30.0000	(Q)
113 1,4-Dichlorobenzene	146	13.443	13.444	(1.002)	713863	49.2091	49.21
115 n-Butylbenzene	91	13.797	13.798	(1.029)	995438	43.3594	43.36
114 1,2-Dichlorobenzene	146	13.758	13.758	(1.026)	671445	49.3148	49.31
118 1,2-Dibromo-3-chloropropane	157	14.397	14.398	(1.073)	88132	52.6472	52.65
119 1,3,5-Trichlorobenzene	180	14.919	14.920	(1.112)	411502	49.1056	49.10
100 Bromobenzene	156	12.370	12.371	(0.922)	384811	48.2740	48.27
102 2-Chlorotoluene	91	12.596	12.597	(0.939)	1226092	49.4372	49.44
103 4-Chlorotoluene	91	12.655	12.656	(0.944)	1417744	49.5625	49.56
120 1,2,4-Trichlorobenzene	180	15.480	15.471	(1.154)	376204	48.6245	48.62
121 Naphthalene	128	15.628	15.628	(1.165)	1125892	60.7539	60.75
111 p-Isopropyltoluene	119	13.394	13.394	(0.999)	1112478	43.7029	43.70
122 Hexachlorobutadiene	225	15.756	15.756	(1.175)	113821	32.4429	32.44
123 1,2,3-Trichlorobenzene	180	15.913	15.914	(1.186)	337036	51.4037	51.40

QC Flag Legend

a - Target compound detected but, quantitated amount Below Limit Of Quantitation(BLOQ).

Data File: \\ELABNSH05\TARGET\chem\voa6.i\100511V6.b\1000312S.D
Report Date: 06-Oct-2011 08:59

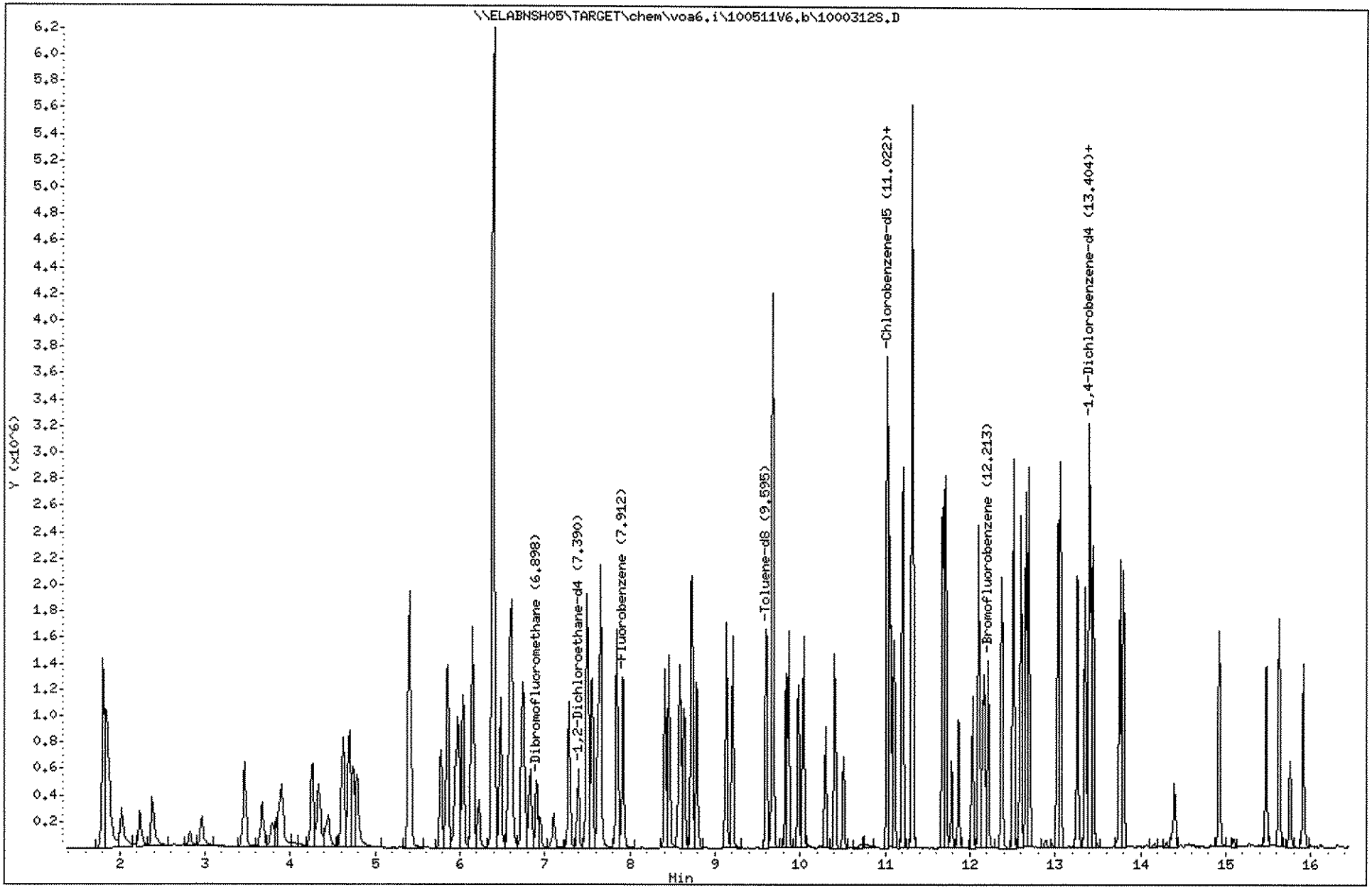
QC Flag Legend

Q - Qualifier signal failed the ratio test.
R - Spike/Surrogate failed recovery limits.

Data File: \\ELABNSH05\TARGET\chem\voa6.i\100511V6.b\1000312S.D
Date : 05-OCT-2011 18:36
Client ID: 1J05008-MSD1
Sample Info: 1J05008-MSD1;;;;
Purge Volume: 5.0
Column phase: RTX-VRX

Instrument: voa6.i

Operator: ADM
Column diameter: 0.25



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1110003

PREPARATION BENCH SHEET

1J05008

Empirical Laboratories, LLC

Instrument: VOA6

Printed: 10/31/2011 9:06:08AM

Matrix: Water **Prepared using: MS - 5030B** **Surrogate used: 11A0564**

Lab Number	Cont ID	Analysis	Prepared	Initial (mL)	Final (mL)	Spike ID	Source ID	ul Spike	ul Surrogate	PH	Extraction Comments
1109203-01	A	VOC_8260B_REG	10/05/2011	5	5				1		
1109203-02	A	VOC_8260B_REG	10/05/2011	5	5				1		
1110001-01RE1	A	VOC_8260B_REG	10/05/2011	5	5				1	2	rerun lower dilution 5x
1110001-02RE1	A	VOC_8260B_REG	10/05/2011	5	5				1	2	rerun lower dilution 10x
1110003-01	A	VOC_8260B_REG	10/05/2011	5	5				1	2	
1110003-03	A	VOC_8260B_REG	10/05/2011	5	5				1	2	
1110003-05	A	VOC_8260B_REG	10/05/2011	5	5				1	2	
1110003-07	A	VOC_8260B_REG	10/05/2011	5	5				1	2	
1110003-09	A	VOC_8260B_REG	10/05/2011	5	5				1	2	
1110003-11	A	VOC_8260B_REG	10/05/2011	5	5				1	2	
1110003-12	A	VOC_8260B_REG	10/05/2011	5	5				1	2	MS/MSD
1110003-14	A	VOC_8260B_REG	10/05/2011	5	5				1	2	
1110003-16	A	VOC_8260B_REG	10/05/2011	5	5				1	2	
1110012-01	A	VOC_8260B_REG	10/05/2011	5	5				1	2	
1110012-03	A	VOC_8260B_REG	10/05/2011	5	5				1	2	
1110012-05	A	VOC_8260B_REG	10/05/2011	5	5				1	2	
1110012-07	A	VOC_8260B_REG	10/05/2011	5	5				1	2	
1110012-09	A	VOC_8260B_REG	10/05/2011	5	5				1	2	
1J05008-BLK1		QC	10/05/2011	5	5				1	NA	
1J05008-BS1		QC	10/05/2011	5	5	11I0782		2.5	1	NA	
1J05008-MS1		QC	10/05/2011	5	5	11I0782	1110003-12	2.5	1	NA	
1J05008-MSD1		QC	10/05/2011	5	5	11I0782	1110003-12	2.5	1	NA	

Spiking Witnessed By Date

Preparation Reviewed By Date

Extracts Received By Date

205

1110003

PREPARATION BENCH SHEET

1J05008

Empirical Laboratories, LLC

Printed: 10/31/2011 9:06:08AM

Instrument: VOA6

Matrix: Water

Prepared using: MS - 5030B

Surrogate used: 11A0564

Lab Number	Cont ID	Analysis	Prepared	Initial (mL)	Final (mL)	Spike ID	Source ID	ul Spike	ul Surrogate	PH	Extraction Comments

Reagents Used:

Standard	Description

Spiking Witnessed By Date

Preparation Reviewed By Date

Extracts Received By Date

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1110003

Data for SW8270C Forms

ANALYSIS DATA SHEET

FLC-4-MW01-092911

Laboratory:	Empirical Laboratories, LLC			SDG:	1110003
Client:	Tetra Tech NUS, Inc. (T010)			Project:	Navy Fuel Depot CTO JM46
Matrix:	Water	Laboratory ID:	1110003-01	File ID:	1000301.D
Sampled:	09/29/11 08:20	Prepared:	10/03/11 12:10	Analyzed:	10/05/11 13:00
Solids:		Preparation:	EXT_3510	Dilution:	1

Batch: 1J03003 Sequence: 1J27903 Calibration: 1257001 Instrument: MS-BNA1

CAS NO.	COMPOUND	CONC. (ug/L)	DL	LOD	LOQ	Q
91-94-1	3,3'-Dichlorobenzidine		1.17	2.34	4.67	U
98-86-2	Acetophenone		1.17	2.34	4.67	Y, U
1912-24-9	Atrazine		1.17	2.34	4.67	Y, Q, U
100-52-7	Benzaldehyde		1.17	2.34	4.67	Y, U
92-52-4	1,1-Biphenyl		0.467	2.34	4.67	Q, U
101-55-3	4-Bromophenyl-phenylether		1.17	2.34	4.67	U
85-68-7	Butylbenzylphthalate		1.17	2.34	4.67	Y, U
105-60-2	Caprolactam		1.17	2.34	4.67	Q, U
86-74-8	Carbazole		1.17	2.34	4.67	U
59-50-7	4-Chloro-3-methylphenol		1.17	2.34	4.67	U
106-47-8	4-Chloroaniline		1.17	2.34	4.67	U
111-91-1	Bis(2-chloroethoxy)methane		1.17	2.34	4.67	Q, U
111-44-4	Bis(2-chloroethyl)ether		1.17	2.34	4.67	U
108-60-1	2,2'-Oxybis-1-chloropropane		0.467	2.34	4.67	U
91-58-7	2-Chloronaphthalene		1.17	2.34	4.67	U
95-57-8	2-Chlorophenol		1.17	2.34	4.67	U
7005-72-3	4-Chlorophenyl phenyl ether		1.17	2.34	4.67	Q, U
132-64-9	Dibenzofuran		1.17	2.34	4.67	U
84-74-2	Di-n-butylphthalate		1.17	2.34	4.67	U
120-83-2	2,4-Dichlorophenol		0.234	2.34	4.67	U
84-66-2	Diethylphthalate		1.17	2.34	4.67	Y, U
105-67-9	2,4-Dimethylphenol		4.67	9.35	18.7	U
131-11-3	Dimethyl phthalate		1.17	2.34	4.67	U
534-52-1	4,6-Dinitro-2-methylphenol		4.67	9.35	18.7	U
51-28-5	2,4-Dinitrophenol		11.7	23.4	46.7	U
121-14-2	2,4-Dinitrotoluene		1.17	2.34	4.67	U
606-20-2	2,6-Dinitrotoluene		1.17	2.34	4.67	U
117-84-0	Di-n-octylphthalate		1.17	2.34	4.67	U
117-81-7	Bis(2-ethylhexyl)phthalate		1.17	2.34	4.67	Y, U
118-74-1	Hexachlorobenzene		0.935	2.34	4.67	U
77-47-4	Hexachlorocyclopentadiene		1.17	2.34	4.67	U
67-72-1	Hexachloroethane		1.17	2.34	4.67	U
78-59-1	Isophorone		1.17	2.34	4.67	U
95-48-7	2-Methylphenol		1.17	2.34	4.67	U
106-44-5	4-Methylphenol		1.17	2.34	4.67	U
91-20-3	Naphthalene		1.17	2.34	4.67	U
100-01-6	4-Nitroaniline		1.17	2.34	4.67	Y, U
99-09-2	3-Nitroaniline		1.17	2.34	4.67	U
88-74-4	2-Nitroaniline		4.67	9.35	18.7	Q, U

ANALYSIS DATA SHEET

FLC-4-MW01-092911

Laboratory:	Empirical Laboratories, LLC			SDG:	1110003
Client:	Tetra Tech NUS, Inc. (T010)			Project:	Navy Fuel Depot CTO JM46
Matrix:	Water	Laboratory ID:	1110003-01	File ID:	1000301.D
Sampled:	09/29/11 08:20	Prepared:	10/03/11 12:10	Analyzed:	10/05/11 13:00
Solids:		Preparation:	EXT_3510	Dilution:	1

Batch: 1J03003 Sequence: 1J27903 Calibration: 1257001 Instrument: MS-BNA1

CAS NO.	COMPOUND	CONC. (ug/L)	DL	LOD	LOQ	Q
98-95-3	Nitrobenzene		1.17	2.34	4.67	U
100-02-7	4-Nitrophenol		4.67	9.35	18.7	U
88-75-5	2-Nitrophenol		1.17	2.34	4.67	U
86-30-6	N-Nitrosodiphenylamine		1.17	2.34	4.67	U
621-64-7	N-Nitroso-di-n-propylamine		1.17	2.34	4.67	U
108-95-2	Phenol		1.17	2.34	4.67	U
95-94-3	1,2,4,5-Tetrachlorobenzene		1.17	2.34	4.67	U
58-90-2	2,3,4,6-Tetrachlorophenol		1.17	2.34	4.67	U
88-06-2	2,4,6-Trichlorophenol		1.17	2.34	4.67	U
95-95-4	2,4,5-Trichlorophenol		0.467	2.34	4.67	U

SYSTEM MONITORING COMPOUND	ADDED (ug/L)	CONC (ug/L)	% REC	QC LIMITS	Q
2-Fluorobiphenyl	46.73	29.89	64.0	50 - 110	
2-Fluorophenol	93.46	19.25	20.6	20 - 110	Y
Nitrobenzene-d5	46.73	29.74	63.6	40 - 110	
Phenol-d6	93.46	11.01	11.8	0 - 110	Y
Terphenyl-d14	46.73	38.47	82.3	50 - 135	
2,4,6-Tribromophenol	93.46	62.96	67.4	40 - 125	

ANALYSIS DATA SHEET

FLC-4-MW02-092911

Laboratory:	Empirical Laboratories, LLC			SDG:	1110003
Client:	Tetra Tech NUS, Inc. (T010)			Project:	Navy Fuel Depot CTO JM46
Matrix:	Water	Laboratory ID:	1110003-03	File ID:	1000303.D
Sampled:	09/29/11 09:30	Prepared:	10/03/11 12:10	Analyzed:	10/05/11 13:34
Solids:		Preparation:	EXT_3510	Dilution:	1

Batch: 1J03003 Sequence: 1J27903 Calibration: 1257001 Instrument: MS-BNA1

CAS NO.	COMPOUND	CONC. (ug/L)	DL	LOD	LOQ	Q
91-94-1	3,3'-Dichlorobenzidine		1.16	2.31	4.63	U
98-86-2	Acetophenone		1.16	2.31	4.63	Y, U
1912-24-9	Atrazine		1.16	2.31	4.63	Y, Q, U
100-52-7	Benzaldehyde		1.16	2.31	4.63	Y, U
92-52-4	1,1-Biphenyl		0.463	2.31	4.63	Q, U
101-55-3	4-Bromophenyl-phenylether		1.16	2.31	4.63	U
85-68-7	Butylbenzylphthalate		1.16	2.31	4.63	Y, U
105-60-2	Caprolactam		1.16	2.31	4.63	Q, U
86-74-8	Carbazole		1.16	2.31	4.63	U
59-50-7	4-Chloro-3-methylphenol		1.16	2.31	4.63	U
106-47-8	4-Chloroaniline		1.16	2.31	4.63	U
111-91-1	Bis(2-chloroethoxy)methane		1.16	2.31	4.63	Q, U
111-44-4	Bis(2-chloroethyl)ether		1.16	2.31	4.63	U
108-60-1	2,2'-Oxybis-1-chloropropane		0.463	2.31	4.63	U
91-58-7	2-Chloronaphthalene		1.16	2.31	4.63	U
95-57-8	2-Chlorophenol		1.16	2.31	4.63	U
7005-72-3	4-Chlorophenyl phenyl ether		1.16	2.31	4.63	Q, U
132-64-9	Dibenzofuran		1.16	2.31	4.63	U
84-74-2	Di-n-butylphthalate		1.16	2.31	4.63	U
120-83-2	2,4-Dichlorophenol		0.231	2.31	4.63	U
84-66-2	Diethylphthalate		1.16	2.31	4.63	Y, U
105-67-9	2,4-Dimethylphenol		4.63	9.26	18.5	U
131-11-3	Dimethyl phthalate		1.16	2.31	4.63	U
534-52-1	4,6-Dinitro-2-methylphenol		4.63	9.26	18.5	U
51-28-5	2,4-Dinitrophenol		11.6	23.1	46.3	U
121-14-2	2,4-Dinitrotoluene		1.16	2.31	4.63	U
606-20-2	2,6-Dinitrotoluene		1.16	2.31	4.63	U
117-84-0	Di-n-octylphthalate		1.16	2.31	4.63	U
117-81-7	Bis(2-ethylhexyl)phthalate		1.16	2.31	4.63	Y, U
118-74-1	Hexachlorobenzene		0.926	2.31	4.63	U
77-47-4	Hexachlorocyclopentadiene		1.16	2.31	4.63	U
67-72-1	Hexachloroethane		1.16	2.31	4.63	U
78-59-1	Isophorone		1.16	2.31	4.63	U
95-48-7	2-Methylphenol		1.16	2.31	4.63	U
106-44-5	4-Methylphenol		1.16	2.31	4.63	U
91-20-3	Naphthalene		1.16	2.31	4.63	U
100-01-6	4-Nitroaniline		1.16	2.31	4.63	Y, U
99-09-2	3-Nitroaniline		1.16	2.31	4.63	U
88-74-4	2-Nitroaniline		4.63	9.26	18.5	Q, U

ANALYSIS DATA SHEET

FLC-4-MW02-092911

Laboratory:	Empirical Laboratories, LLC			SDG:	1110003
Client:	Tetra Tech NUS, Inc. (T010)			Project:	Navy Fuel Depot CTO JM46
Matrix:	Water	Laboratory ID:	1110003-03	File ID:	1000303.D
Sampled:	09/29/11 09:30	Prepared:	10/03/11 12:10	Analyzed:	10/05/11 13:34
Solids:		Preparation:	EXT_3510	Dilution:	1

Batch: 1J03003 Sequence: 1J27903 Calibration: 1257001 Instrument: MS-BNA1

CAS NO.	COMPOUND	CONC. (ug/L)	DL	LOD	LOQ	Q
98-95-3	Nitrobenzene		1.16	2.31	4.63	U
100-02-7	4-Nitrophenol		4.63	9.26	18.5	U
88-75-5	2-Nitrophenol		1.16	2.31	4.63	U
86-30-6	N-Nitrosodiphenylamine		1.16	2.31	4.63	U
621-64-7	N-Nitroso-di-n-propylamine		1.16	2.31	4.63	U
108-95-2	Phenol		1.16	2.31	4.63	U
95-94-3	1,2,4,5-Tetrachlorobenzene		1.16	2.31	4.63	U
58-90-2	2,3,4,6-Tetrachlorophenol		1.16	2.31	4.63	U
88-06-2	2,4,6-Trichlorophenol		1.16	2.31	4.63	U
95-95-4	2,4,5-Trichlorophenol		0.463	2.31	4.63	U

SYSTEM MONITORING COMPOUND	ADDED (ug/L)	CONC (ug/L)	% REC	QC LIMITS	Q
2-Fluorobiphenyl	46.30	28.72	62.0	50 - 110	
2-Fluorophenol	92.59	24.95	26.9	20 - 110	Y
Nitrobenzene-d5	46.30	28.89	62.4	40 - 110	
Phenol-d6	92.59	13.87	15.0	0 - 110	Y
Terphenyl-d14	46.30	42.59	92.0	50 - 135	
2,4,6-Tribromophenol	92.59	66.73	72.1	40 - 125	

ANALYSIS DATA SHEET

FLC-5-MW05-092911

Laboratory:	Empirical Laboratories, LLC			SDG:	1110003
Client:	Tetra Tech NUS, Inc. (T010)			Project:	Navy Fuel Depot CTO JM46
Matrix:	Water	Laboratory ID:	1110003-05	File ID:	1000305.D
Sampled:	09/29/11 11:25	Prepared:	10/03/11 12:10	Analyzed:	10/05/11 14:09
Solids:		Preparation:	EXT_3510	Dilution:	1

Batch: 1J03003 Sequence: 1J27903 Calibration: 1257001 Instrument: MS-BNA1

CAS NO.	COMPOUND	CONC. (ug/L)	DL	LOD	LOQ	Q
91-94-1	3,3'-Dichlorobenzidine		1.16	2.31	4.63	U
98-86-2	Acetophenone		1.16	2.31	4.63	Y, U
1912-24-9	Atrazine		1.16	2.31	4.63	Y, Q, U
100-52-7	Benzaldehyde		1.16	2.31	4.63	Y, U
92-52-4	1,1-Biphenyl		0.463	2.31	4.63	Q, U
101-55-3	4-Bromophenyl-phenylether		1.16	2.31	4.63	U
85-68-7	Butylbenzylphthalate		1.16	2.31	4.63	Y, U
105-60-2	Caprolactam		1.16	2.31	4.63	Q, U
86-74-8	Carbazole		1.16	2.31	4.63	U
59-50-7	4-Chloro-3-methylphenol		1.16	2.31	4.63	U
106-47-8	4-Chloroaniline		1.16	2.31	4.63	U
111-91-1	Bis(2-chloroethoxy)methane		1.16	2.31	4.63	Q, U
111-44-4	Bis(2-chloroethyl)ether		1.16	2.31	4.63	U
108-60-1	2,2'-Oxybis-1-chloropropane		0.463	2.31	4.63	U
91-58-7	2-Chloronaphthalene		1.16	2.31	4.63	U
95-57-8	2-Chlorophenol		1.16	2.31	4.63	U
7005-72-3	4-Chlorophenyl phenyl ether		1.16	2.31	4.63	Q, U
132-64-9	Dibenzofuran		1.16	2.31	4.63	U
84-74-2	Di-n-butylphthalate		1.16	2.31	4.63	U
120-83-2	2,4-Dichlorophenol		0.231	2.31	4.63	U
84-66-2	Diethylphthalate		1.16	2.31	4.63	Y, U
105-67-9	2,4-Dimethylphenol		4.63	9.26	18.5	U
131-11-3	Dimethyl phthalate		1.16	2.31	4.63	U
534-52-1	4,6-Dinitro-2-methylphenol		4.63	9.26	18.5	U
51-28-5	2,4-Dinitrophenol		11.6	23.1	46.3	U
121-14-2	2,4-Dinitrotoluene		1.16	2.31	4.63	U
606-20-2	2,6-Dinitrotoluene		1.16	2.31	4.63	U
117-84-0	Di-n-octylphthalate		1.16	2.31	4.63	U
117-81-7	Bis(2-ethylhexyl)phthalate		1.16	2.31	4.63	Y, U
118-74-1	Hexachlorobenzene		0.926	2.31	4.63	U
77-47-4	Hexachlorocyclopentadiene		1.16	2.31	4.63	U
67-72-1	Hexachloroethane		1.16	2.31	4.63	U
78-59-1	Isophorone		1.16	2.31	4.63	U
95-48-7	2-Methylphenol		1.16	2.31	4.63	U
106-44-5	4-Methylphenol		1.16	2.31	4.63	U
91-20-3	Naphthalene		1.16	2.31	4.63	U
100-01-6	4-Nitroaniline		1.16	2.31	4.63	Y, U
99-09-2	3-Nitroaniline		1.16	2.31	4.63	U
88-74-4	2-Nitroaniline		4.63	9.26	18.5	Q, U

ANALYSIS DATA SHEET

FLC-5-MW05-092911

Laboratory:	Empirical Laboratories, LLC			SDG:	1110003
Client:	Tetra Tech NUS, Inc. (T010)			Project:	Navy Fuel Depot CTO JM46
Matrix:	Water	Laboratory ID:	1110003-05	File ID:	1000305.D
Sampled:	09/29/11 11:25	Prepared:	10/03/11 12:10	Analyzed:	10/05/11 14:09
Solids:		Preparation:	EXT_3510	Dilution:	1

Batch: 1J03003 Sequence: 1J27903 Calibration: 1257001 Instrument: MS-BNA1

CAS NO.	COMPOUND	CONC. (ug/L)	DL	LOD	LOQ	Q
98-95-3	Nitrobenzene		1.16	2.31	4.63	U
100-02-7	4-Nitrophenol		4.63	9.26	18.5	U
88-75-5	2-Nitrophenol		1.16	2.31	4.63	U
86-30-6	N-Nitrosodiphenylamine		1.16	2.31	4.63	U
621-64-7	N-Nitroso-di-n-propylamine		1.16	2.31	4.63	U
108-95-2	Phenol		1.16	2.31	4.63	U
95-94-3	1,2,4,5-Tetrachlorobenzene		1.16	2.31	4.63	U
58-90-2	2,3,4,6-Tetrachlorophenol		1.16	2.31	4.63	U
88-06-2	2,4,6-Trichlorophenol		1.16	2.31	4.63	U
95-95-4	2,4,5-Trichlorophenol		0.463	2.31	4.63	U

SYSTEM MONITORING COMPOUND	ADDED (ug/L)	CONC (ug/L)	% REC	QC LIMITS	Q
2-Fluorobiphenyl	46.30	16.87	36.4	50 - 110	*
2-Fluorophenol	92.59	16.97	18.3	20 - 110	*Y
Nitrobenzene-d5	46.30	20.76	44.8	40 - 110	
Phenol-d6	92.59	9.221	9.96	0 - 110	Y
Terphenyl-d14	46.30	20.11	43.4	50 - 135	*
2,4,6-Tribromophenol	92.59	46.96	50.7	40 - 125	

ANALYSIS DATA SHEET

FLC-5-MW04-092911

Laboratory:	Empirical Laboratories, LLC			SDG:	1110003
Client:	Tetra Tech NUS, Inc. (T010)			Project:	Navy Fuel Depot CTO JM46
Matrix:	Water	Laboratory ID:	1110003-07	File ID:	1000307.D
Sampled:	09/29/11 12:50	Prepared:	10/03/11 12:10	Analyzed:	10/05/11 14:43
Solids:		Preparation:	EXT_3510	Dilution:	1

Batch: 1J03003 Sequence: 1J27903 Calibration: 1257001 Instrument: MS-BNA1

CAS NO.	COMPOUND	CONC. (ug/L)	DL	LOD	LOQ	Q
91-94-1	3,3'-Dichlorobenzidine		1.16	2.31	4.63	U
98-86-2	Acetophenone		1.16	2.31	4.63	Y, U
1912-24-9	Atrazine		1.16	2.31	4.63	Y, Q, U
100-52-7	Benzaldehyde		1.16	2.31	4.63	Y, U
92-52-4	1,1-Biphenyl		0.463	2.31	4.63	Q, U
101-55-3	4-Bromophenyl-phenylether		1.16	2.31	4.63	U
85-68-7	Butylbenzylphthalate		1.16	2.31	4.63	Y, U
105-60-2	Caprolactam		1.16	2.31	4.63	Q, U
86-74-8	Carbazole		1.16	2.31	4.63	U
59-50-7	4-Chloro-3-methylphenol		1.16	2.31	4.63	U
106-47-8	4-Chloroaniline		1.16	2.31	4.63	U
111-91-1	Bis(2-chloroethoxy)methane		1.16	2.31	4.63	Q, U
111-44-4	Bis(2-chloroethyl)ether		1.16	2.31	4.63	U
108-60-1	2,2'-Oxybis-1-chloropropane		0.463	2.31	4.63	U
91-58-7	2-Chloronaphthalene		1.16	2.31	4.63	U
95-57-8	2-Chlorophenol		1.16	2.31	4.63	U
7005-72-3	4-Chlorophenyl phenyl ether		1.16	2.31	4.63	Q, U
132-64-9	Dibenzofuran		1.16	2.31	4.63	U
84-74-2	Di-n-butylphthalate		1.16	2.31	4.63	U
120-83-2	2,4-Dichlorophenol		0.231	2.31	4.63	U
84-66-2	Diethylphthalate		1.16	2.31	4.63	Y, U
105-67-9	2,4-Dimethylphenol		4.63	9.26	18.5	U
131-11-3	Dimethyl phthalate		1.16	2.31	4.63	U
534-52-1	4,6-Dinitro-2-methylphenol		4.63	9.26	18.5	U
51-28-5	2,4-Dinitrophenol		11.6	23.1	46.3	U
121-14-2	2,4-Dinitrotoluene		1.16	2.31	4.63	U
606-20-2	2,6-Dinitrotoluene		1.16	2.31	4.63	U
117-84-0	Di-n-octylphthalate		1.16	2.31	4.63	U
117-81-7	Bis(2-ethylhexyl)phthalate		1.16	2.31	4.63	Y, U
118-74-1	Hexachlorobenzene		0.926	2.31	4.63	U
77-47-4	Hexachlorocyclopentadiene		1.16	2.31	4.63	U
67-72-1	Hexachloroethane		1.16	2.31	4.63	U
78-59-1	Isophorone		1.16	2.31	4.63	U
95-48-7	2-Methylphenol		1.16	2.31	4.63	U
106-44-5	4-Methylphenol		1.16	2.31	4.63	U
91-20-3	Naphthalene		1.16	2.31	4.63	U
100-01-6	4-Nitroaniline		1.16	2.31	4.63	Y, U
99-09-2	3-Nitroaniline		1.16	2.31	4.63	U
88-74-4	2-Nitroaniline		4.63	9.26	18.5	Q, U

ANALYSIS DATA SHEET

FLC-5-MW04-092911

Laboratory:	Empirical Laboratories, LLC			SDG:	1110003
Client:	Tetra Tech NUS, Inc. (T010)			Project:	Navy Fuel Depot CTO JM46
Matrix:	Water	Laboratory ID:	1110003-07	File ID:	1000307.D
Sampled:	09/29/11 12:50	Prepared:	10/03/11 12:10	Analyzed:	10/05/11 14:43
Solids:		Preparation:	EXT_3510	Dilution:	1

Batch: 1J03003 Sequence: 1J27903 Calibration: 1257001 Instrument: MS-BNA1

CAS NO.	COMPOUND	CONC. (ug/L)	DL	LOD	LOQ	Q
98-95-3	Nitrobenzene		1.16	2.31	4.63	U
100-02-7	4-Nitrophenol		4.63	9.26	18.5	U
88-75-5	2-Nitrophenol		1.16	2.31	4.63	U
86-30-6	N-Nitrosodiphenylamine		1.16	2.31	4.63	U
621-64-7	N-Nitroso-di-n-propylamine		1.16	2.31	4.63	U
108-95-2	Phenol		1.16	2.31	4.63	U
95-94-3	1,2,4,5-Tetrachlorobenzene		1.16	2.31	4.63	U
58-90-2	2,3,4,6-Tetrachlorophenol		1.16	2.31	4.63	U
88-06-2	2,4,6-Trichlorophenol		1.16	2.31	4.63	U
95-95-4	2,4,5-Trichlorophenol		0.463	2.31	4.63	U

SYSTEM MONITORING COMPOUND	ADDED (ug/L)	CONC (ug/L)	% REC	QC LIMITS	Q
2-Fluorobiphenyl	46.30	23.68	51.1	50 - 110	
2-Fluorophenol	92.59	19.54	21.1	20 - 110	Y
Nitrobenzene-d5	46.30	30.10	65.0	40 - 110	
Phenol-d6	92.59	11.38	12.3	0 - 110	Y
Terphenyl-d14	46.30	36.34	78.5	50 - 135	
2,4,6-Tribromophenol	92.59	58.13	62.8	40 - 125	

ANALYSIS DATA SHEET

FLC-5-MW03-092911

Laboratory:	Empirical Laboratories, LLC			SDG:	1110003
Client:	Tetra Tech NUS, Inc. (T010)			Project:	Navy Fuel Depot CTO JM46
Matrix:	Water	Laboratory ID:	1110003-09	File ID:	1000309.D
Sampled:	09/29/11 14:00	Prepared:	10/03/11 12:10	Analyzed:	10/05/11 15:18
Solids:		Preparation:	EXT_3510	Dilution:	1

Batch: 1J03003 Sequence: 1J27903 Calibration: 1257001 Instrument: MS-BNA1

CAS NO.	COMPOUND	CONC. (ug/L)	DL	LOD	LOQ	Q
91-94-1	3,3'-Dichlorobenzidine		1.16	2.31	4.63	U
98-86-2	Acetophenone		1.16	2.31	4.63	Y, U
1912-24-9	Atrazine		1.16	2.31	4.63	Y, Q, U
100-52-7	Benzaldehyde		1.16	2.31	4.63	Y, U
92-52-4	1,1-Biphenyl		0.463	2.31	4.63	Q, U
101-55-3	4-Bromophenyl-phenylether		1.16	2.31	4.63	U
85-68-7	Butylbenzylphthalate		1.16	2.31	4.63	Y, U
105-60-2	Caprolactam		1.16	2.31	4.63	Q, U
86-74-8	Carbazole		1.16	2.31	4.63	U
59-50-7	4-Chloro-3-methylphenol		1.16	2.31	4.63	U
106-47-8	4-Chloroaniline		1.16	2.31	4.63	U
111-91-1	Bis(2-chloroethoxy)methane		1.16	2.31	4.63	Q, U
111-44-4	Bis(2-chloroethyl)ether		1.16	2.31	4.63	U
108-60-1	2,2'-Oxybis-1-chloropropane		0.463	2.31	4.63	U
91-58-7	2-Chloronaphthalene		1.16	2.31	4.63	U
95-57-8	2-Chlorophenol		1.16	2.31	4.63	U
7005-72-3	4-Chlorophenyl phenyl ether		1.16	2.31	4.63	Q, U
132-64-9	Dibenzofuran		1.16	2.31	4.63	U
84-74-2	Di-n-butylphthalate		1.16	2.31	4.63	U
120-83-2	2,4-Dichlorophenol		0.231	2.31	4.63	U
84-66-2	Diethylphthalate		1.16	2.31	4.63	Y, U
105-67-9	2,4-Dimethylphenol		4.63	9.26	18.5	U
131-11-3	Dimethyl phthalate		1.16	2.31	4.63	U
534-52-1	4,6-Dinitro-2-methylphenol		4.63	9.26	18.5	U
51-28-5	2,4-Dinitrophenol		11.6	23.1	46.3	U
121-14-2	2,4-Dinitrotoluene		1.16	2.31	4.63	U
606-20-2	2,6-Dinitrotoluene		1.16	2.31	4.63	U
117-84-0	Di-n-octylphthalate		1.16	2.31	4.63	U
117-81-7	Bis(2-ethylhexyl)phthalate		1.16	2.31	4.63	Y, U
118-74-1	Hexachlorobenzene		0.926	2.31	4.63	U
77-47-4	Hexachlorocyclopentadiene		1.16	2.31	4.63	U
67-72-1	Hexachloroethane		1.16	2.31	4.63	U
78-59-1	Isophorone		1.16	2.31	4.63	U
95-48-7	2-Methylphenol		1.16	2.31	4.63	U
106-44-5	4-Methylphenol		1.16	2.31	4.63	U
91-20-3	Naphthalene		1.16	2.31	4.63	U
100-01-6	4-Nitroaniline		1.16	2.31	4.63	Y, U
99-09-2	3-Nitroaniline		1.16	2.31	4.63	U
88-74-4	2-Nitroaniline		4.63	9.26	18.5	Q, U

ANALYSIS DATA SHEET

FLC-5-MW03-092911

Laboratory:	Empirical Laboratories, LLC			SDG:	1110003
Client:	Tetra Tech NUS, Inc. (T010)			Project:	Navy Fuel Depot CTO JM46
Matrix:	Water	Laboratory ID:	1110003-09	File ID:	1000309.D
Sampled:	09/29/11 14:00	Prepared:	10/03/11 12:10	Analyzed:	10/05/11 15:18
Solids:		Preparation:	EXT_3510	Dilution:	1

Batch: 1J03003 Sequence: 1J27903 Calibration: 1257001 Instrument: MS-BNA1

CAS NO.	COMPOUND	CONC. (ug/L)	DL	LOD	LOQ	Q
98-95-3	Nitrobenzene		1.16	2.31	4.63	U
100-02-7	4-Nitrophenol		4.63	9.26	18.5	U
88-75-5	2-Nitrophenol		1.16	2.31	4.63	U
86-30-6	N-Nitrosodiphenylamine		1.16	2.31	4.63	U
621-64-7	N-Nitroso-di-n-propylamine		1.16	2.31	4.63	U
108-95-2	Phenol		1.16	2.31	4.63	U
95-94-3	1,2,4,5-Tetrachlorobenzene		1.16	2.31	4.63	U
58-90-2	2,3,4,6-Tetrachlorophenol		1.16	2.31	4.63	U
88-06-2	2,4,6-Trichlorophenol		1.16	2.31	4.63	U
95-95-4	2,4,5-Trichlorophenol		0.463	2.31	4.63	U

SYSTEM MONITORING COMPOUND	ADDED (ug/L)	CONC (ug/L)	% REC	QC LIMITS	Q
2-Fluorobiphenyl	46.30	8.335	18.0	50 - 110	*
2-Fluorophenol	92.59	7.677	8.29	20 - 110	*Y
Nitrobenzene-d5	46.30	9.511	20.5	40 - 110	*
Phenol-d6	92.59	4.629	5.00	0 - 110	Y
Terphenyl-d14	46.30	12.54	27.1	50 - 135	*
2,4,6-Tribromophenol	92.59	14.66	15.8	40 - 125	*

ANALYSIS DATA SHEET

FLC-5-MW03-092911

Laboratory:	Empirical Laboratories, LLC			SDG:	1110003
Client:	Tetra Tech NUS, Inc. (T010)			Project:	Navy Fuel Depot CTO JM46
Matrix:	Water	Laboratory ID:	1110003-09RE1	File ID:	1000309R.D
Sampled:	09/29/11 14:00	Prepared:	10/06/11 12:20	Analyzed:	10/19/11 23:27
Solids:		Preparation:	EXT_3510	Dilution:	1

Batch: 1J06004 Sequence: 1J29315 Calibration: 1236001 Instrument: MS-BNA3

CAS NO.	COMPOUND	CONC. (ug/L)	DL	LOD	LOQ	Q
98-86-2	Acetophenone		1.16	2.31	4.63	U
1912-24-9	Atrazine		1.16	2.31	4.63	Y, U
100-52-7	Benzaldehyde		1.16	2.31	4.63	Y, U
92-52-4	1,1-Biphenyl		0.463	2.31	4.63	U
101-55-3	4-Bromophenyl-phenylether		1.16	2.31	4.63	U
85-68-7	Butylbenzylphthalate		1.16	2.31	4.63	U
105-60-2	Caprolactam		1.16	2.31	4.63	Q, U
86-74-8	Carbazole		1.16	2.31	4.63	U
59-50-7	4-Chloro-3-methylphenol		1.16	2.31	4.63	U
106-47-8	4-Chloroaniline		1.16	2.31	4.63	U
111-91-1	Bis(2-chloroethoxy)methane		1.16	2.31	4.63	U
111-44-4	Bis(2-chloroethyl)ether		1.16	2.31	4.63	U
108-60-1	2,2'-Oxybis-1-chloropropane		0.463	2.31	4.63	Y, U
91-58-7	2-Chloronaphthalene		1.16	2.31	4.63	U
95-57-8	2-Chlorophenol		1.16	2.31	4.63	U
7005-72-3	4-Chlorophenyl phenyl ether		1.16	2.31	4.63	U
132-64-9	Dibenzofuran		1.16	2.31	4.63	U
84-74-2	Di-n-butylphthalate		1.16	2.31	4.63	U
91-94-1	3,3'-Dichlorobenzidine		1.16	2.31	4.63	U
120-83-2	2,4-Dichlorophenol		0.231	2.31	4.63	U
84-66-2	Diethylphthalate		1.16	2.31	4.63	U
105-67-9	2,4-Dimethylphenol		4.63	9.26	18.5	U
131-11-3	Dimethyl phthalate		1.16	2.31	4.63	U
534-52-1	4,6-Dinitro-2-methylphenol		4.63	9.26	18.5	U
51-28-5	2,4-Dinitrophenol		11.6	23.1	46.3	Q, X, U
121-14-2	2,4-Dinitrotoluene		1.16	2.31	4.63	U
606-20-2	2,6-Dinitrotoluene		1.16	2.31	4.63	U
117-84-0	Di-n-octylphthalate		1.16	2.31	4.63	U
117-81-7	Bis(2-ethylhexyl)phthalate		1.16	2.31	4.63	U
118-74-1	Hexachlorobenzene		0.926	2.31	4.63	U
77-47-4	Hexachlorocyclopentadiene		1.16	2.31	4.63	Q, U
67-72-1	Hexachloroethane		1.16	2.31	4.63	Q, U
78-59-1	Isophorone		1.16	2.31	4.63	U
95-48-7	2-Methylphenol		1.16	2.31	4.63	U
106-44-5	4-Methylphenol		1.16	2.31	4.63	U
91-20-3	Naphthalene		1.16	2.31	4.63	U
100-01-6	4-Nitroaniline		1.16	2.31	4.63	U
99-09-2	3-Nitroaniline		1.16	2.31	4.63	U
88-74-4	2-Nitroaniline		4.63	9.26	18.5	U

ANALYSIS DATA SHEET

FLC-5-MW03-092911

Laboratory:	Empirical Laboratories, LLC			SDG:	1110003
Client:	Tetra Tech NUS, Inc. (T010)			Project:	Navy Fuel Depot CTO JM46
Matrix:	Water	Laboratory ID:	1110003-09RE1	File ID:	1000309R.D
Sampled:	09/29/11 14:00	Prepared:	10/06/11 12:20	Analyzed:	10/19/11 23:27
Solids:		Preparation:	EXT_3510	Dilution:	1

Batch: 1J06004 Sequence: 1J29315 Calibration: 1236001 Instrument: MS-BNA3

CAS NO.	COMPOUND	CONC. (ug/L)	DL	LOD	LOQ	Q
98-95-3	Nitrobenzene		1.16	2.31	4.63	U
100-02-7	4-Nitrophenol		4.63	9.26	18.5	U
88-75-5	2-Nitrophenol		1.16	2.31	4.63	U
86-30-6	N-Nitrosodiphenylamine		1.16	2.31	4.63	U
621-64-7	N-Nitroso-di-n-propylamine		1.16	2.31	4.63	U
108-95-2	Phenol		1.16	2.31	4.63	U
95-94-3	1,2,4,5-Tetrachlorobenzene		1.16	2.31	4.63	U
58-90-2	2,3,4,6-Tetrachlorophenol		1.16	2.31	4.63	U
88-06-2	2,4,6-Trichlorophenol		1.16	2.31	4.63	U
95-95-4	2,4,5-Trichlorophenol		0.463	2.31	4.63	U

SYSTEM MONITORING COMPOUND	ADDED (ug/L)	CONC (ug/L)	% REC	QC LIMITS	Q
2-Fluorobiphenyl	46.30	16.06	34.7	50 - 110	*
2-Fluorophenol	92.59	12.36	13.3	20 - 110	*
Nitrobenzene-d5	46.30	18.35	39.6	40 - 110	*
Phenol-d6	92.59	7.449	8.04	0 - 110	
Terphenyl-d14	46.30	15.73	34.0	50 - 135	*
2,4,6-Tribromophenol	92.59	32.42	35.0	40 - 125	*

ANALYSIS DATA SHEET

FLC-RB02-092911

Laboratory:	Empirical Laboratories, LLC			SDG:	1110003
Client:	Tetra Tech NUS, Inc. (T010)			Project:	Navy Fuel Depot CTO JM46
Matrix:	Water	Laboratory ID:	1110003-11	File ID:	1000311.D
Sampled:	09/29/11 14:35	Prepared:	10/03/11 12:10	Analyzed:	10/05/11 15:52
Solids:		Preparation:	EXT_3510	Dilution:	1

Batch: 1J03003 Sequence: 1J27903 Calibration: 1257001 Instrument: MS-BNA1

CAS NO.	COMPOUND	CONC. (ug/L)	DL	LOD	LOQ	Q
91-94-1	3,3'-Dichlorobenzidine		1.17	2.34	4.67	U
98-86-2	Acetophenone		1.17	2.34	4.67	Y, U
1912-24-9	Atrazine		1.17	2.34	4.67	Y, Q, U
100-52-7	Benzaldehyde	1.90	1.17	2.34	4.67	Y, I
92-52-4	1,1-Biphenyl		0.467	2.34	4.67	Q, U
101-55-3	4-Bromophenyl-phenylether		1.17	2.34	4.67	U
85-68-7	Butylbenzylphthalate		1.17	2.34	4.67	Y, U
105-60-2	Caprolactam		1.17	2.34	4.67	Q, U
86-74-8	Carbazole		1.17	2.34	4.67	U
59-50-7	4-Chloro-3-methylphenol		1.17	2.34	4.67	U
106-47-8	4-Chloroaniline		1.17	2.34	4.67	U
111-91-1	Bis(2-chloroethoxy)methane		1.17	2.34	4.67	Q, U
111-44-4	Bis(2-chloroethyl)ether		1.17	2.34	4.67	U
108-60-1	2,2'-Oxybis-1-chloropropane		0.467	2.34	4.67	U
91-58-7	2-Chloronaphthalene		1.17	2.34	4.67	U
95-57-8	2-Chlorophenol		1.17	2.34	4.67	U
7005-72-3	4-Chlorophenyl phenyl ether		1.17	2.34	4.67	Q, U
132-64-9	Dibenzofuran		1.17	2.34	4.67	U
84-74-2	Di-n-butylphthalate		1.17	2.34	4.67	U
120-83-2	2,4-Dichlorophenol		0.234	2.34	4.67	U
84-66-2	Diethylphthalate		1.17	2.34	4.67	Y, U
105-67-9	2,4-Dimethylphenol		4.67	9.35	18.7	U
131-11-3	Dimethyl phthalate		1.17	2.34	4.67	U
534-52-1	4,6-Dinitro-2-methylphenol		4.67	9.35	18.7	U
51-28-5	2,4-Dinitrophenol		11.7	23.4	46.7	U
121-14-2	2,4-Dinitrotoluene		1.17	2.34	4.67	U
606-20-2	2,6-Dinitrotoluene		1.17	2.34	4.67	U
117-84-0	Di-n-octylphthalate		1.17	2.34	4.67	U
117-81-7	Bis(2-ethylhexyl)phthalate		1.17	2.34	4.67	Y, U
118-74-1	Hexachlorobenzene		0.935	2.34	4.67	U
77-47-4	Hexachlorocyclopentadiene		1.17	2.34	4.67	U
67-72-1	Hexachloroethane		1.17	2.34	4.67	U
78-59-1	Isophorone		1.17	2.34	4.67	U
95-48-7	2-Methylphenol		1.17	2.34	4.67	U
106-44-5	4-Methylphenol		1.17	2.34	4.67	U
91-20-3	Naphthalene		1.17	2.34	4.67	U
100-01-6	4-Nitroaniline		1.17	2.34	4.67	Y, U
99-09-2	3-Nitroaniline		1.17	2.34	4.67	U
88-74-4	2-Nitroaniline		4.67	9.35	18.7	Q, U

ANALYSIS DATA SHEET

FLC-RB02-092911

Laboratory:	Empirical Laboratories, LLC			SDG:	1110003
Client:	Tetra Tech NUS, Inc. (T010)			Project:	Navy Fuel Depot CTO JM46
Matrix:	Water	Laboratory ID:	1110003-11	File ID:	1000311.D
Sampled:	09/29/11 14:35	Prepared:	10/03/11 12:10	Analyzed:	10/05/11 15:52
Solids:		Preparation:	EXT_3510	Dilution:	1

Batch: 1J03003 Sequence: 1J27903 Calibration: 1257001 Instrument: MS-BNA1

CAS NO.	COMPOUND	CONC. (ug/L)	DL	LOD	LOQ	Q
98-95-3	Nitrobenzene		1.17	2.34	4.67	U
100-02-7	4-Nitrophenol		4.67	9.35	18.7	U
88-75-5	2-Nitrophenol		1.17	2.34	4.67	U
86-30-6	N-Nitrosodiphenylamine		1.17	2.34	4.67	U
621-64-7	N-Nitroso-di-n-propylamine		1.17	2.34	4.67	U
108-95-2	Phenol		1.17	2.34	4.67	U
95-94-3	1,2,4,5-Tetrachlorobenzene		1.17	2.34	4.67	U
58-90-2	2,3,4,6-Tetrachlorophenol		1.17	2.34	4.67	U
88-06-2	2,4,6-Trichlorophenol		1.17	2.34	4.67	U
95-95-4	2,4,5-Trichlorophenol		0.467	2.34	4.67	U

SYSTEM MONITORING COMPOUND	ADDED (ug/L)	CONC (ug/L)	% REC	QC LIMITS	Q
2-Fluorobiphenyl	46.73	26.90	57.6	50 - 110	
2-Fluorophenol	93.46	19.82	21.2	20 - 110	Y
Nitrobenzene-d5	46.73	28.02	60.0	40 - 110	
Phenol-d6	93.46	12.70	13.6	0 - 110	Y
Terphenyl-d14	46.73	26.68	57.1	50 - 135	
2,4,6-Tribromophenol	93.46	45.12	48.3	40 - 125	

ANALYSIS DATA SHEET

FLC-5-MW01-092911

Laboratory:	Empirical Laboratories, LLC			SDG:	1110003
Client:	Tetra Tech NUS, Inc. (T010)			Project:	Navy Fuel Depot CTO JM46
Matrix:	Water	Laboratory ID:	1110003-12	File ID:	1000312.D
Sampled:	09/30/11 09:15	Prepared:	10/03/11 12:10	Analyzed:	10/05/11 16:27
Solids:		Preparation:	EXT_3510	Dilution:	1

Batch: 1J03003 Sequence: 1J27903 Calibration: 1257001 Instrument: MS-BNA1

CAS NO.	COMPOUND	CONC. (ug/L)	DL	LOD	LOQ	Q
91-94-1	3,3'-Dichlorobenzidine		1.16	2.31	4.63	N, U
98-86-2	Acetophenone		1.16	2.31	4.63	Y, U
1912-24-9	Atrazine		1.16	2.31	4.63	Y, Q, N, U
100-52-7	Benzaldehyde		1.16	2.31	4.63	Y, U
92-52-4	1,1-Biphenyl		0.463	2.31	4.63	Q, U
101-55-3	4-Bromophenyl-phenylether		1.16	2.31	4.63	U
85-68-7	Butylbenzylphthalate		1.16	2.31	4.63	Y, U
105-60-2	Caprolactam		1.16	2.31	4.63	Q, N, U
86-74-8	Carbazole		1.16	2.31	4.63	U
59-50-7	4-Chloro-3-methylphenol		1.16	2.31	4.63	N, U
106-47-8	4-Chloroaniline		1.16	2.31	4.63	U
111-91-1	Bis(2-chloroethoxy)methane		1.16	2.31	4.63	Q, U
111-44-4	Bis(2-chloroethyl)ether		1.16	2.31	4.63	U
108-60-1	2,2'-Oxybis-1-chloropropane		0.463	2.31	4.63	U
91-58-7	2-Chloronaphthalene		1.16	2.31	4.63	U
95-57-8	2-Chlorophenol		1.16	2.31	4.63	N, U
7005-72-3	4-Chlorophenyl phenyl ether		1.16	2.31	4.63	Q, U
132-64-9	Dibenzofuran		1.16	2.31	4.63	U
84-74-2	Di-n-butylphthalate		1.16	2.31	4.63	U
120-83-2	2,4-Dichlorophenol		0.231	2.31	4.63	N, U
84-66-2	Diethylphthalate		1.16	2.31	4.63	Y, U
105-67-9	2,4-Dimethylphenol		4.63	9.26	18.5	N, U
131-11-3	Dimethyl phthalate		1.16	2.31	4.63	U
534-52-1	4,6-Dinitro-2-methylphenol		4.63	9.26	18.5	N, U
51-28-5	2,4-Dinitrophenol		11.6	23.1	46.3	N, U
121-14-2	2,4-Dinitrotoluene		1.16	2.31	4.63	U
606-20-2	2,6-Dinitrotoluene		1.16	2.31	4.63	U
117-84-0	Di-n-octylphthalate		1.16	2.31	4.63	U
117-81-7	Bis(2-ethylhexyl)phthalate		1.16	2.31	4.63	Y, U
118-74-1	Hexachlorobenzene		0.926	2.31	4.63	U
77-47-4	Hexachlorocyclopentadiene		1.16	2.31	4.63	U
67-72-1	Hexachloroethane		1.16	2.31	4.63	U
78-59-1	Isophorone		1.16	2.31	4.63	U
95-48-7	2-Methylphenol		1.16	2.31	4.63	N, U
106-44-5	4-Methylphenol		1.16	2.31	4.63	N, U
91-20-3	Naphthalene		1.16	2.31	4.63	U
100-01-6	4-Nitroaniline		1.16	2.31	4.63	Y, N, U
99-09-2	3-Nitroaniline		1.16	2.31	4.63	N, U
88-74-4	2-Nitroaniline		4.63	9.26	18.5	Q, U

ANALYSIS DATA SHEET

FLC-5-MW01-092911

Laboratory:	Empirical Laboratories, LLC			SDG:	1110003
Client:	Tetra Tech NUS, Inc. (T010)			Project:	Navy Fuel Depot CTO JM46
Matrix:	Water	Laboratory ID:	1110003-12	File ID:	1000312.D
Sampled:	09/30/11 09:15	Prepared:	10/03/11 12:10	Analyzed:	10/05/11 16:27
Solids:		Preparation:	EXT_3510	Dilution:	1

Batch: 1J03003 Sequence: 1J27903 Calibration: 1257001 Instrument: MS-BNA1

CAS NO.	COMPOUND	CONC. (ug/L)	DL	LOD	LOQ	Q
98-95-3	Nitrobenzene		1.16	2.31	4.63	U
100-02-7	4-Nitrophenol		4.63	9.26	18.5	U
88-75-5	2-Nitrophenol		1.16	2.31	4.63	N, U
86-30-6	N-Nitrosodiphenylamine		1.16	2.31	4.63	U
621-64-7	N-Nitroso-di-n-propylamine		1.16	2.31	4.63	U
108-95-2	Phenol		1.16	2.31	4.63	N, U
95-94-3	1,2,4,5-Tetrachlorobenzene		1.16	2.31	4.63	U
58-90-2	2,3,4,6-Tetrachlorophenol		1.16	2.31	4.63	N, U
88-06-2	2,4,6-Trichlorophenol		1.16	2.31	4.63	N, U
95-95-4	2,4,5-Trichlorophenol		0.463	2.31	4.63	N, U

SYSTEM MONITORING COMPOUND	ADDED (ug/L)	CONC (ug/L)	% REC	QC LIMITS	Q
2-Fluorobiphenyl	46.30	11.38	24.6	50 - 110	*
2-Fluorophenol	92.59	3.086	3.33	20 - 110	*Y
Nitrobenzene-d5	46.30	7.505	16.2	40 - 110	*
Phenol-d6	92.59	3.504	3.78	0 - 110	Y
Terphenyl-d14	46.30	28.92	62.5	50 - 135	
2,4,6-Tribromophenol	92.59	49.23	53.2	40 - 125	

ANALYSIS DATA SHEET

FLC-5-MW01-092911

Laboratory:	Empirical Laboratories, LLC			SDG:	1110003
Client:	Tetra Tech NUS, Inc. (T010)			Project:	Navy Fuel Depot CTO JM46
Matrix:	Water	Laboratory ID:	1110003-12RE1	File ID:	1000312R.D
Sampled:	09/30/11 09:15	Prepared:	10/06/11 12:20	Analyzed:	10/20/11 00:02
Solids:		Preparation:	EXT_3510	Dilution:	1

Batch: 1J06004 Sequence: 1J29315 Calibration: 1236001 Instrument: MS-BNA3

CAS NO.	COMPOUND	CONC. (ug/L)	DL	LOD	LOQ	Q
98-86-2	Acetophenone		1.17	2.34	4.67	U
1912-24-9	Atrazine		1.17	2.34	4.67	Y, U
100-52-7	Benzaldehyde		1.17	2.34	4.67	Y, U
92-52-4	1,1-Biphenyl		0.467	2.34	4.67	U
101-55-3	4-Bromophenyl-phenylether		1.17	2.34	4.67	U
85-68-7	Butylbenzylphthalate		1.17	2.34	4.67	U
105-60-2	Caprolactam		1.17	2.34	4.67	Q, U
86-74-8	Carbazole		1.17	2.34	4.67	U
59-50-7	4-Chloro-3-methylphenol		1.17	2.34	4.67	U
106-47-8	4-Chloroaniline		1.17	2.34	4.67	U
111-91-1	Bis(2-chloroethoxy)methane		1.17	2.34	4.67	U
111-44-4	Bis(2-chloroethyl)ether		1.17	2.34	4.67	U
108-60-1	2,2'-Oxybis-1-chloropropane		0.467	2.34	4.67	Y, U
91-58-7	2-Chloronaphthalene		1.17	2.34	4.67	U
95-57-8	2-Chlorophenol		1.17	2.34	4.67	U
7005-72-3	4-Chlorophenyl phenyl ether		1.17	2.34	4.67	U
132-64-9	Dibenzofuran		1.17	2.34	4.67	U
84-74-2	Di-n-butylphthalate		1.17	2.34	4.67	U
91-94-1	3,3'-Dichlorobenzidine		1.17	2.34	4.67	U
120-83-2	2,4-Dichlorophenol		0.234	2.34	4.67	U
84-66-2	Diethylphthalate		1.17	2.34	4.67	U
105-67-9	2,4-Dimethylphenol		4.67	9.35	18.7	U
131-11-3	Dimethyl phthalate		1.17	2.34	4.67	U
534-52-1	4,6-Dinitro-2-methylphenol		4.67	9.35	18.7	U
51-28-5	2,4-Dinitrophenol		11.7	23.4	46.7	Q, X, U
121-14-2	2,4-Dinitrotoluene		1.17	2.34	4.67	U
606-20-2	2,6-Dinitrotoluene		1.17	2.34	4.67	U
117-84-0	Di-n-octylphthalate		1.17	2.34	4.67	U
117-81-7	Bis(2-ethylhexyl)phthalate		1.17	2.34	4.67	U
118-74-1	Hexachlorobenzene		0.935	2.34	4.67	U
77-47-4	Hexachlorocyclopentadiene		1.17	2.34	4.67	Q, U
67-72-1	Hexachloroethane		1.17	2.34	4.67	Q, U
78-59-1	Isophorone		1.17	2.34	4.67	U
95-48-7	2-Methylphenol		1.17	2.34	4.67	U
106-44-5	4-Methylphenol		1.17	2.34	4.67	U
91-20-3	Naphthalene		1.17	2.34	4.67	U
100-01-6	4-Nitroaniline		1.17	2.34	4.67	U
99-09-2	3-Nitroaniline		1.17	2.34	4.67	U
88-74-4	2-Nitroaniline		4.67	9.35	18.7	U

ANALYSIS DATA SHEET

FLC-5-MW01-092911

Laboratory:	Empirical Laboratories, LLC			SDG:	1110003
Client:	Tetra Tech NUS, Inc. (T010)			Project:	Navy Fuel Depot CTO JM46
Matrix:	Water	Laboratory ID:	1110003-12RE1	File ID:	1000312R.D
Sampled:	09/30/11 09:15	Prepared:	10/06/11 12:20	Analyzed:	10/20/11 00:02
Solids:		Preparation:	EXT_3510	Dilution:	1

Batch: 1J06004 Sequence: 1J29315 Calibration: 1236001 Instrument: MS-BNA3

CAS NO.	COMPOUND	CONC. (ug/L)	DL	LOD	LOQ	Q
98-95-3	Nitrobenzene		1.17	2.34	4.67	U
100-02-7	4-Nitrophenol		4.67	9.35	18.7	U
88-75-5	2-Nitrophenol		1.17	2.34	4.67	U
86-30-6	N-Nitrosodiphenylamine		1.17	2.34	4.67	U
621-64-7	N-Nitroso-di-n-propylamine		1.17	2.34	4.67	U
108-95-2	Phenol		1.17	2.34	4.67	U
95-94-3	1,2,4,5-Tetrachlorobenzene		1.17	2.34	4.67	U
58-90-2	2,3,4,6-Tetrachlorophenol		1.17	2.34	4.67	U
88-06-2	2,4,6-Trichlorophenol		1.17	2.34	4.67	U
95-95-4	2,4,5-Trichlorophenol		0.467	2.34	4.67	U

SYSTEM MONITORING COMPOUND	ADDED (ug/L)	CONC (ug/L)	% REC	QC LIMITS	Q
2-Fluorobiphenyl	46.73	33.25	71.2	50 - 110	
2-Fluorophenol	93.46	19.55	20.9	20 - 110	
Nitrobenzene-d5	46.73	36.34	77.8	40 - 110	
Phenol-d6	93.46	12.08	12.9	0 - 110	
Terphenyl-d14	46.73	26.87	57.5	50 - 135	
2,4,6-Tribromophenol	93.46	70.03	74.9	40 - 125	

ANALYSIS DATA SHEET

FLC-5-MW02-092911

Laboratory:	Empirical Laboratories, LLC			SDG:	1110003
Client:	Tetra Tech NUS, Inc. (T010)			Project:	Navy Fuel Depot CTO JM46
Matrix:	Water	Laboratory ID:	1110003-14	File ID:	1000314.D
Sampled:	09/30/11 11:05	Prepared:	10/03/11 12:10	Analyzed:	10/05/11 17:01
Solids:		Preparation:	EXT_3510	Dilution:	1

Batch: 1J03003 Sequence: 1J27903 Calibration: 1257001 Instrument: MS-BNA1

CAS NO.	COMPOUND	CONC. (ug/L)	DL	LOD	LOQ	Q
91-94-1	3,3'-Dichlorobenzidine		1.16	2.31	4.63	U
98-86-2	Acetophenone		1.16	2.31	4.63	Y, U
1912-24-9	Atrazine		1.16	2.31	4.63	Y, Q, U
100-52-7	Benzaldehyde		1.16	2.31	4.63	Y, U
92-52-4	1,1-Biphenyl		0.463	2.31	4.63	Q, U
101-55-3	4-Bromophenyl-phenylether		1.16	2.31	4.63	U
85-68-7	Butylbenzylphthalate		1.16	2.31	4.63	Y, U
105-60-2	Caprolactam		1.16	2.31	4.63	Q, U
86-74-8	Carbazole		1.16	2.31	4.63	U
59-50-7	4-Chloro-3-methylphenol		1.16	2.31	4.63	U
106-47-8	4-Chloroaniline		1.16	2.31	4.63	U
111-91-1	Bis(2-chloroethoxy)methane		1.16	2.31	4.63	Q, U
111-44-4	Bis(2-chloroethyl)ether		1.16	2.31	4.63	U
108-60-1	2,2'-Oxybis-1-chloropropane		0.463	2.31	4.63	U
91-58-7	2-Chloronaphthalene		1.16	2.31	4.63	U
95-57-8	2-Chlorophenol		1.16	2.31	4.63	U
7005-72-3	4-Chlorophenyl phenyl ether		1.16	2.31	4.63	Q, U
132-64-9	Dibenzofuran		1.16	2.31	4.63	U
84-74-2	Di-n-butylphthalate		1.16	2.31	4.63	U
120-83-2	2,4-Dichlorophenol		0.231	2.31	4.63	U
84-66-2	Diethylphthalate		1.16	2.31	4.63	Y, U
105-67-9	2,4-Dimethylphenol		4.63	9.26	18.5	U
131-11-3	Dimethyl phthalate		1.16	2.31	4.63	U
534-52-1	4,6-Dinitro-2-methylphenol		4.63	9.26	18.5	U
51-28-5	2,4-Dinitrophenol		11.6	23.1	46.3	U
121-14-2	2,4-Dinitrotoluene		1.16	2.31	4.63	U
606-20-2	2,6-Dinitrotoluene		1.16	2.31	4.63	U
117-84-0	Di-n-octylphthalate		1.16	2.31	4.63	U
117-81-7	Bis(2-ethylhexyl)phthalate		1.16	2.31	4.63	Y, U
118-74-1	Hexachlorobenzene		0.926	2.31	4.63	U
77-47-4	Hexachlorocyclopentadiene		1.16	2.31	4.63	U
67-72-1	Hexachloroethane		1.16	2.31	4.63	U
78-59-1	Isophorone		1.16	2.31	4.63	U
95-48-7	2-Methylphenol		1.16	2.31	4.63	U
106-44-5	4-Methylphenol		1.16	2.31	4.63	U
91-20-3	Naphthalene		1.16	2.31	4.63	U
100-01-6	4-Nitroaniline		1.16	2.31	4.63	Y, U
99-09-2	3-Nitroaniline		1.16	2.31	4.63	U
88-74-4	2-Nitroaniline		4.63	9.26	18.5	Q, U

ANALYSIS DATA SHEET

FLC-5-MW02-092911

Laboratory:	Empirical Laboratories, LLC			SDG:	1110003
Client:	Tetra Tech NUS, Inc. (T010)			Project:	Navy Fuel Depot CTO JM46
Matrix:	Water	Laboratory ID:	1110003-14	File ID:	1000314.D
Sampled:	09/30/11 11:05	Prepared:	10/03/11 12:10	Analyzed:	10/05/11 17:01
Solids:		Preparation:	EXT_3510	Dilution:	1

Batch: 1J03003 Sequence: 1J27903 Calibration: 1257001 Instrument: MS-BNA1

CAS NO.	COMPOUND	CONC. (ug/L)	DL	LOD	LOQ	Q
98-95-3	Nitrobenzene		1.16	2.31	4.63	U
100-02-7	4-Nitrophenol		4.63	9.26	18.5	U
88-75-5	2-Nitrophenol		1.16	2.31	4.63	U
86-30-6	N-Nitrosodiphenylamine		1.16	2.31	4.63	U
621-64-7	N-Nitroso-di-n-propylamine		1.16	2.31	4.63	U
108-95-2	Phenol		1.16	2.31	4.63	U
95-94-3	1,2,4,5-Tetrachlorobenzene		1.16	2.31	4.63	U
58-90-2	2,3,4,6-Tetrachlorophenol		1.16	2.31	4.63	U
88-06-2	2,4,6-Trichlorophenol		1.16	2.31	4.63	U
95-95-4	2,4,5-Trichlorophenol		0.463	2.31	4.63	U

SYSTEM MONITORING COMPOUND	ADDED (ug/L)	CONC (ug/L)	% REC	QC LIMITS	Q
2-Fluorobiphenyl	46.30	27.36	59.1	50 - 110	
2-Fluorophenol	92.59	21.34	23.0	20 - 110	Y
Nitrobenzene-d5	46.30	37.56	81.1	40 - 110	
Phenol-d6	92.59	13.16	14.2	0 - 110	Y
Terphenyl-d14	46.30	33.42	72.2	50 - 135	
2,4,6-Tribromophenol	92.59	57.76	62.4	40 - 125	

SURROGATE STANDARD RECOVERY AND RT SUMMARY

SW8270C

Laboratory:	Empirical Laboratories, LLC	SDG:	1110003
Client:	Tetra Tech NUS, Inc. (T010)	Project:	Navy Fuel Depot CTO JM46
Sequence:	1J27903	Instrument:	MS-BNA1
		Calibration:	1257001

Surrogate Compound	Spike Level	% Recovery	Recovery Limits	RT	CCV RT	RT Diff	RT Diff Limit	Q
Calibration Check (1J27903-CCV1) ug/mL				Lab File ID: SEQ-CCV1.D		Analyzed: 10/05/11 08:50		
2-Fluorobiphenyl	50.00	89.2	80 - 120	9.713	9.713	0.0000	+/-0.500	
2-Fluorophenol	100.0	77.6	80 - 120	5.039	5.039	0.0000	+/-0.500	*
Nitrobenzene-d5	50.00	93.7	80 - 120	7.42	7.42	0.0000	+/-0.500	
Phenol-d6	100.0	72.8	80 - 120	6.218	6.218	0.0000	+/-0.500	*
Terphenyl-d14	50.00	104	80 - 120	14.628	14.628	0.0000	+/-0.500	
2,4,6-Tribromophenol	100.0	85.2	80 - 120	11.53	11.53	0.0000	+/-0.500	
LCS (1J03003-BS1) ug/L				Lab File ID: J03003L1.D		Analyzed: 10/05/11 10:07		
2-Fluorobiphenyl	50.00	106	50 - 110	9.719	9.713	0.0060	+/-0.500	
2-Fluorophenol	100.0	30.9	20 - 110	5.042	5.039	0.0030	+/-0.500	
Nitrobenzene-d5	50.00	90.0	40 - 110	7.422	7.42	0.0020	+/-0.500	
Phenol-d6	100.0	18.3	0 - 110	6.212	6.218	-0.0060	+/-0.500	
Terphenyl-d14	50.00	106	50 - 135	14.632	14.628	0.0040	+/-0.500	
2,4,6-Tribromophenol	100.0	83.3	40 - 125	11.534	11.53	0.0040	+/-0.500	
Blank (1J03003-BLK1) ug/L				Lab File ID: J03003B1.D		Analyzed: 10/05/11 10:41		
2-Fluorobiphenyl	50.00	68.1	50 - 110	9.718	9.713	0.0050	+/-0.500	
2-Fluorophenol	100.0	27.8	20 - 110	5.04	5.039	0.0010	+/-0.500	
Nitrobenzene-d5	50.00	85.6	40 - 110	7.418	7.42	-0.0020	+/-0.500	
Phenol-d6	100.0	15.4	0 - 110	6.2	6.218	-0.0180	+/-0.500	
Terphenyl-d14	50.00	107	50 - 135	14.626	14.628	-0.0020	+/-0.500	
2,4,6-Tribromophenol	100.0	77.1	40 - 125	11.524	11.53	-0.0060	+/-0.500	
FLC-4-MW01-092911 (1110003-01) ug/L				Lab File ID: 1000301.D		Analyzed: 10/05/11 13:00		
2-Fluorobiphenyl	46.73	64.0	50 - 110	9.717	9.713	0.0040	+/-0.500	
2-Fluorophenol	93.46	20.6	20 - 110	5.035	5.039	-0.0040	+/-0.500	
Nitrobenzene-d5	46.73	63.6	40 - 110	7.417	7.42	-0.0030	+/-0.500	
Phenol-d6	93.46	11.8	0 - 110	6.208	6.218	-0.0100	+/-0.500	
Terphenyl-d14	46.73	82.3	50 - 135	14.636	14.628	0.0080	+/-0.500	
2,4,6-Tribromophenol	93.46	67.4	40 - 125	11.53	11.53	0.0000	+/-0.500	
FLC-4-MW02-092911 (1110003-03) ug/L				Lab File ID: 1000303.D		Analyzed: 10/05/11 13:34		
2-Fluorobiphenyl	46.30	62.0	50 - 110	9.711	9.713	-0.0020	+/-0.500	
2-Fluorophenol	92.59	26.9	20 - 110	5.043	5.039	0.0040	+/-0.500	
Nitrobenzene-d5	46.30	62.4	40 - 110	7.424	7.42	0.0040	+/-0.500	
Phenol-d6	92.59	15.0	0 - 110	6.203	6.218	-0.0150	+/-0.500	
Terphenyl-d14	46.30	92.0	50 - 135	14.637	14.628	0.0090	+/-0.500	
2,4,6-Tribromophenol	92.59	72.1	40 - 125	11.53	11.53	0.0000	+/-0.500	

SURROGATE STANDARD RECOVERY AND RT SUMMARY

SW8270C

Laboratory:	Empirical Laboratories, LLC	SDG:	1110003
Client:	Tetra Tech NUS, Inc. (T010)	Project:	Navy Fuel Depot CTO JM46
Sequence:	1J27903	Instrument:	MS-BNA1
		Calibration:	1257001

Surrogate Compound	Spike Level	% Recovery	Recovery Limits	RT	CCV RT	RT Diff	RT Diff Limit	Q
FLC-5-MW05-092911 (1110003-05) ug/L				Lab File ID: 1000305.D		Analyzed: 10/05/11 14:09		
2-Fluorobiphenyl	46.30	36.4	50 - 110	9.711	9.713	-0.0020	+/-0.500	*
2-Fluorophenol	92.59	18.3	20 - 110	5.041	5.039	0.0020	+/-0.500	*
Nitrobenzene-d5	46.30	44.8	40 - 110	7.423	7.42	0.0030	+/-0.500	
Phenol-d6	92.59	9.96	0 - 110	6.203	6.218	-0.0150	+/-0.500	
Terphenyl-d14	46.30	43.4	50 - 135	14.637	14.628	0.0090	+/-0.500	*
2,4,6-Tribromophenol	92.59	50.7	40 - 125	11.531	11.53	0.0010	+/-0.500	
FLC-5-MW04-092911 (1110003-07) ug/L				Lab File ID: 1000307.D		Analyzed: 10/05/11 14:43		
2-Fluorobiphenyl	46.30	51.1	50 - 110	9.717	9.713	0.0040	+/-0.500	
2-Fluorophenol	92.59	21.1	20 - 110	5.041	5.039	0.0020	+/-0.500	
Nitrobenzene-d5	46.30	65.0	40 - 110	7.422	7.42	0.0020	+/-0.500	
Phenol-d6	92.59	12.3	0 - 110	6.201	6.218	-0.0170	+/-0.500	
Terphenyl-d14	46.30	78.5	50 - 135	14.635	14.628	0.0070	+/-0.500	
2,4,6-Tribromophenol	92.59	62.8	40 - 125	11.531	11.53	0.0010	+/-0.500	
FLC-5-MW03-092911 (1110003-09) ug/L				Lab File ID: 1000309.D		Analyzed: 10/05/11 15:18		
2-Fluorobiphenyl	46.30	18.0	50 - 110	9.712	9.713	-0.0010	+/-0.500	*
2-Fluorophenol	92.59	8.29	20 - 110	5.041	5.039	0.0020	+/-0.500	*
Nitrobenzene-d5	46.30	20.5	40 - 110	7.422	7.42	0.0020	+/-0.500	*
Phenol-d6	92.59	5.00	0 - 110	6.203	6.218	-0.0150	+/-0.500	
Terphenyl-d14	46.30	27.1	50 - 135	14.639	14.628	0.0110	+/-0.500	*
2,4,6-Tribromophenol	92.59	15.8	40 - 125	11.532	11.53	0.0020	+/-0.500	*
FLC-RB02-092911 (1110003-11) ug/L				Lab File ID: 1000311.D		Analyzed: 10/05/11 15:52		
2-Fluorobiphenyl	46.73	57.6	50 - 110	9.717	9.713	0.0040	+/-0.500	
2-Fluorophenol	93.46	21.2	20 - 110	5.043	5.039	0.0040	+/-0.500	
Nitrobenzene-d5	46.73	60.0	40 - 110	7.424	7.42	0.0040	+/-0.500	
Phenol-d6	93.46	13.6	0 - 110	6.204	6.218	-0.0140	+/-0.500	
Terphenyl-d14	46.73	57.1	50 - 135	14.631	14.628	0.0030	+/-0.500	
2,4,6-Tribromophenol	93.46	48.3	40 - 125	11.526	11.53	-0.0040	+/-0.500	
FLC-5-MW01-092911 (1110003-12) ug/L				Lab File ID: 1000312.D		Analyzed: 10/05/11 16:27		
2-Fluorobiphenyl	46.30	24.6	50 - 110	9.72	9.713	0.0070	+/-0.500	*
2-Fluorophenol	92.59	3.33	20 - 110	5.043	5.039	0.0040	+/-0.500	*
Nitrobenzene-d5	46.30	16.2	40 - 110	7.415	7.42	-0.0050	+/-0.500	*
Phenol-d6	92.59	3.78	0 - 110	6.203	6.218	-0.0150	+/-0.500	
Terphenyl-d14	46.30	62.5	50 - 135	14.64	14.628	0.0120	+/-0.500	
2,4,6-Tribromophenol	92.59	53.2	40 - 125	11.536	11.53	0.0060	+/-0.500	

SURROGATE STANDARD RECOVERY AND RT SUMMARY

SW8270C

Laboratory:	Empirical Laboratories, LLC	SDG:	1110003
Client:	Tetra Tech NUS, Inc. (T010)	Project:	Navy Fuel Depot CTO JM46
Sequence:	1J27903	Instrument:	MS-BNA1
		Calibration:	1257001

Surrogate Compound	Spike Level	% Recovery	Recovery Limits	RT	CCV RT	RT Diff	RT Diff Limit	Q
FLC-5-MW02-092911 (1110003-14) ug/L				Lab File ID: 1000314.D		Analyzed: 10/05/11 17:01		
2-Fluorobiphenyl	46.30	59.1	50 - 110	9.718	9.713	0.0050	+/-0.500	
2-Fluorophenol	92.59	23.0	20 - 110	5.045	5.039	0.0060	+/-0.500	
Nitrobenzene-d5	46.30	81.1	40 - 110	7.419	7.42	-0.0010	+/-0.500	
Phenol-d6	92.59	14.2	0 - 110	6.206	6.218	-0.0120	+/-0.500	
Terphenyl-d14	46.30	72.2	50 - 135	14.631	14.628	0.0030	+/-0.500	
2,4,6-Tribromophenol	92.59	62.4	40 - 125	11.533	11.53	0.0030	+/-0.500	
Matrix Spike (1J03003-MS1) ug/L				Lab File ID: 1000312M.D		Analyzed: 10/05/11 17:35		
2-Fluorobiphenyl	46.30	65.2	50 - 110	9.724	9.713	0.0110	+/-0.500	
2-Fluorophenol	92.59	19.8	20 - 110	5.044	5.039	0.0050	+/-0.500	*
Nitrobenzene-d5	46.30	86.0	40 - 110	7.422	7.42	0.0020	+/-0.500	
Phenol-d6	92.59	12.6	0 - 110	6.218	6.218	0.0000	+/-0.500	
Terphenyl-d14	46.30	43.6	50 - 135	14.643	14.628	0.0150	+/-0.500	*
2,4,6-Tribromophenol	92.59	55.9	40 - 125	11.538	11.53	0.0080	+/-0.500	
Matrix Spike Dup (1J03003-MSD1) ug/L				Lab File ID: 1000312S.D		Analyzed: 10/05/11 18:09		
2-Fluorobiphenyl	46.30	47.7	50 - 110	9.716	9.713	0.0030	+/-0.500	*
2-Fluorophenol	92.59	15.9	20 - 110	5.046	5.039	0.0070	+/-0.500	*
Nitrobenzene-d5	46.30	62.0	40 - 110	7.423	7.42	0.0030	+/-0.500	
Phenol-d6	92.59	9.59	0 - 110	6.211	6.218	-0.0070	+/-0.500	
Terphenyl-d14	46.30	25.0	50 - 135	14.638	14.628	0.0100	+/-0.500	*
2,4,6-Tribromophenol	92.59	34.1	40 - 125	11.537	11.53	0.0070	+/-0.500	*

SURROGATE STANDARD RECOVERY AND RT SUMMARY

SW8270C

Laboratory:	Empirical Laboratories, LLC	SDG:	1110003
Client:	Tetra Tech NUS, Inc. (T010)	Project:	Navy Fuel Depot CTO JM46
Sequence:	1J29315	Instrument:	MS-BNA3
		Calibration:	1236001

Surrogate Compound	Spike Level	% Recovery	Recovery Limits	RT	CCV RT	RT Diff	RT Diff Limit	Q
Calibration Check (1J29315-CCV1) ug/mL				Lab File ID: SEQ-CCV1.D		Analyzed: 10/19/11 14:39		
2-Fluorobiphenyl	50.00	106	80 - 120	9.896	9.896	0.0000	+/-0.500	
2-Fluorophenol	100.0	95.6	80 - 120	5.345	5.345	0.0000	+/-0.500	
Nitrobenzene-d5	50.00	104	80 - 120	7.605	7.605	0.0000	+/-0.500	
Phenol-d6	100.0	96.1	80 - 120	6.451	6.451	0.0000	+/-0.500	
Terphenyl-d14	50.00	113	80 - 120	15.084	15.084	0.0000	+/-0.500	
2,4,6-Tribromophenol	100.0	105	80 - 120	11.766	11.766	0.0000	+/-0.500	
Blank (1J06004-BLK1) ug/L				Lab File ID: J06004B1.D		Analyzed: 10/19/11 22:16		
2-Fluorobiphenyl	50.00	73.5	50 - 110	9.891	9.896	-0.0050	+/-0.500	
2-Fluorophenol	100.0	29.5	20 - 110	5.35	5.345	0.0050	+/-0.500	
Nitrobenzene-d5	50.00	76.3	40 - 110	7.599	7.605	-0.0060	+/-0.500	
Phenol-d6	100.0	16.2	0 - 110	6.445	6.451	-0.0060	+/-0.500	
Terphenyl-d14	50.00	92.7	50 - 135	15.089	15.084	0.0050	+/-0.500	
2,4,6-Tribromophenol	100.0	87.0	40 - 125	11.772	11.766	0.0060	+/-0.500	
LCS (1J06004-BS1) ug/L				Lab File ID: J06004L1.D		Analyzed: 10/19/11 22:51		
2-Fluorobiphenyl	50.00	80.1	50 - 110	9.894	9.896	-0.0020	+/-0.500	
2-Fluorophenol	100.0	31.4	20 - 110	5.337	5.345	-0.0080	+/-0.500	
Nitrobenzene-d5	50.00	77.2	40 - 110	7.602	7.605	-0.0030	+/-0.500	
Phenol-d6	100.0	17.2	0 - 110	6.448	6.451	-0.0030	+/-0.500	
Terphenyl-d14	50.00	108	50 - 135	15.086	15.084	0.0020	+/-0.500	
2,4,6-Tribromophenol	100.0	82.1	40 - 125	11.774	11.766	0.0080	+/-0.500	
FLC-5-MW03-092911 (1110003-09RE1) ug/L				Lab File ID: 1000309R.D		Analyzed: 10/19/11 23:27		
2-Fluorobiphenyl	46.30	34.7	50 - 110	9.901	9.896	0.0050	+/-0.500	*
2-Fluorophenol	92.59	13.3	20 - 110	5.355	5.345	0.0100	+/-0.500	*
Nitrobenzene-d5	46.30	39.6	40 - 110	7.604	7.605	-0.0010	+/-0.500	*
Phenol-d6	92.59	8.04	0 - 110	6.455	6.451	0.0040	+/-0.500	
Terphenyl-d14	46.30	34.0	50 - 135	15.094	15.084	0.0100	+/-0.500	*
2,4,6-Tribromophenol	92.59	35.0	40 - 125	11.781	11.766	0.0150	+/-0.500	*
FLC-5-MW01-092911 (1110003-12RE1) ug/L				Lab File ID: 1000312R.D		Analyzed: 10/20/11 00:02		
2-Fluorobiphenyl	46.73	71.2	50 - 110	9.897	9.896	0.0010	+/-0.500	
2-Fluorophenol	93.46	20.9	20 - 110	5.35	5.345	0.0050	+/-0.500	
Nitrobenzene-d5	46.73	77.8	40 - 110	7.605	7.605	0.0000	+/-0.500	
Phenol-d6	93.46	12.9	0 - 110	6.467	6.451	0.0160	+/-0.500	
Terphenyl-d14	46.73	57.5	50 - 135	15.11	15.084	0.0260	+/-0.500	
2,4,6-Tribromophenol	93.46	74.9	40 - 125	11.798	11.766	0.0320	+/-0.500	

LCS / LCS DUPLICATE RECOVERY

SW8270C

Laboratory:	Empirical Laboratories, LLC	SDG:	1110003
Client:	Tetra Tech NUS, Inc. (T010)	Project:	Navy Fuel Depot CTO JM46
Matrix:	Water		
Batch:	1J03003	Laboratory ID:	1J03003-BS1
Preparation:	EXT_3510	Initial/Final:	1000 mL / 1 mL

ANALYTE	SPIKE ADDED (ug/L)	LCS CONCENTRATION (ug/L)	LCS % REC.	QC LIMITS REC.
3,3'-Dichlorobenzidine	50.00	48.35	96.7	20 - 110
Acetophenone	50.00	39.38	78.8	50 - 110
Atrazine	**50.00**	**67.38**	**135**	**70 - 115**
Benzaldehyde	50.00	53.39	107	10 - 180
1,1-Biphenyl	**50.00**	**60.09**	**120**	**50 - 110**
4-Bromophenyl-phenylether	50.00	55.00	110	50 - 115
Butylbenzylphthalate	50.00	52.97	106	45 - 115
Caprolactam	**50.00**	**8.473**	**16.9**	**20 - 110**
Carbazole	50.00	53.39	107	50 - 115
4-Chloro-3-methylphenol	50.00	37.53	75.1	45 - 110
4-Chloroaniline	50.00	39.46	78.9	15 - 110
Bis(2-chloroethoxy)methane	**50.00**	**56.94**	**114**	**45 - 105**
Bis(2-chloroethyl)ether	50.00	42.40	84.8	35 - 110
2,2'-Oxybis-1-chloropropane	50.00	43.52	87.0	25 - 130
2-Chloronaphthalene	50.00	44.27	88.5	50 - 105
2-Chlorophenol	50.00	30.10	60.2	35 - 105
4-Chlorophenyl phenyl ether	**50.00**	**64.13**	**128**	**50 - 110**
Dibenzofuran	50.00	52.65	105	55 - 105
Di-n-butylphthalate	50.00	54.53	109	55 - 115
2,4-Dichlorophenol	50.00	38.12	76.2	40 - 110
Diethylphthalate	50.00	56.94	114	40 - 120
2,4-Dimethylphenol	50.00	37.06	74.1	30 - 110
Dimethyl phthalate	50.00	58.66	117	25 - 125
4,6-Dinitro-2-methylphenol	50.00	36.04	72.1	40 - 130
2,4-Dinitrophenol	50.00	31.08	62.2	15 - 140
2,4-Dinitrotoluene	50.00	49.39	98.8	50 - 120
2,6-Dinitrotoluene	50.00	53.91	108	50 - 115
Di-n-octylphthalate	50.00	53.38	107	35 - 135
Bis(2-ethylhexyl)phthalate	50.00	48.52	97.0	40 - 125
Hexachlorobenzene	50.00	50.43	101	50 - 110

LCS / LCS DUPLICATE RECOVERY

SW8270C

Laboratory:	Empirical Laboratories, LLC	SDG:	1110003
Client:	Tetra Tech NUS, Inc. (T010)	Project:	Navy Fuel Depot CTO JM46
Matrix:	Water		
Batch:	1J03003	Laboratory ID:	1J03003-BS1
Preparation:	EXT_3510	Initial/Final:	1000 mL / 1 mL

ANALYTE	SPIKE ADDED (ug/L)	LCS CONCENTRATION (ug/L)	LCS % REC.	QC LIMITS REC.
Hexachlorocyclopentadiene	50.00	22.54	45.1	10 - 110
Hexachloroethane	50.00	16.12	32.2	30 - 95
Isophorone	50.00	46.38	92.8	50 - 110
2-Methylphenol	50.00	25.63	51.3	40 - 110
4-Methylphenol	50.00	20.84	41.7	30 - 110
Naphthalene	50.00	35.65	71.3	40 - 100
4-Nitroaniline	50.00	44.11	88.2	35 - 120
3-Nitroaniline	50.00	39.48	79.0	20 - 125
2-Nitroaniline	**50.00**	**59.04**	**118**	**50 - 115**
Nitrobenzene	50.00	45.92	91.8	30 - 110
4-Nitrophenol	50.00	10.56	21.1	0 - 125
2-Nitrophenol	50.00	44.94	89.9	40 - 115
N-Nitrosodiphenylamine	50.00	44.94	89.9	50 - 110
N-Nitroso-di-n-propylamine	50.00	45.45	90.9	35 - 130
Phenol	50.00	10.76	21.5	0 - 115
1,2,4,5-Tetrachlorobenzene	50.00	55.77	112	50 - 125
2,3,4,6-Tetrachlorophenol	50.00	53.20	106	50 - 125
2,4,6-Trichlorophenol	50.00	51.86	104	50 - 115
2,4,5-Trichlorophenol	50.00	51.35	103	50 - 110

LCS / LCS DUPLICATE RECOVERY

SW8270C

Laboratory:	Empirical Laboratories, LLC	SDG:	1110003
Client:	Tetra Tech NUS, Inc. (T010)	Project:	Navy Fuel Depot CTO JM46
Matrix:	Water		
Batch:	1J06004	Laboratory ID:	1J06004-BS1
Preparation:	EXT_3510	Initial/Final:	1000 mL / 1 mL

ANALYTE	SPIKE ADDED (ug/L)	LCS CONCENTRATION (ug/L)	LCS % REC.	QC LIMITS REC.
Acetophenone	50.00	36.85	73.7	50 - 110
Atrazine	50.00	43.11	86.2	70 - 115
Benzaldehyde	50.00	35.89	71.8	10 - 180
1,1-Biphenyl	50.00	38.27	76.5	50 - 110
4-Bromophenyl-phenylether	50.00	46.82	93.6	50 - 115
Butylbenzylphthalate	50.00	53.44	107	45 - 115
Caprolactam	**50.00**	**6.811**	**13.6**	**20 - 110**
Carbazole	50.00	39.47	78.9	50 - 115
4-Chloro-3-methylphenol	49.70	35.47	71.4	45 - 110
4-Chloroaniline	50.00	26.25	52.5	15 - 110
Bis(2-chloroethoxy)methane	50.00	44.33	88.7	45 - 105
Bis(2-chloroethyl)ether	50.00	37.08	74.2	35 - 110
2,2'-Oxybis-1-chloropropane	50.00	33.76	67.5	25 - 130
2-Chloronaphthalene	50.00	36.40	72.8	50 - 105
2-Chlorophenol	49.70	23.98	48.3	35 - 105
4-Chlorophenyl phenyl ether	50.00	47.07	94.1	50 - 110
Dibenzofuran	50.00	42.44	84.9	55 - 105
Di-n-butylphthalate	50.00	44.90	89.8	55 - 115
3,3'-Dichlorobenzidine	50.00	38.70	77.4	20 - 110
2,4-Dichlorophenol	49.70	37.11	74.7	40 - 110
Diethylphthalate	50.00	49.84	99.7	40 - 120
2,4-Dimethylphenol	49.70	33.34	67.1	30 - 110
Dimethyl phthalate	50.00	47.55	95.1	25 - 125
4,6-Dinitro-2-methylphenol	49.70	22.03	44.3	40 - 130
2,4-Dinitrophenol	**49.70**	**50.0 U**	**0**	**15 - 140**
2,4-Dinitrotoluene	50.00	45.68	91.4	50 - 120
2,6-Dinitrotoluene	50.00	43.16	86.3	50 - 115
Di-n-octylphthalate	50.00	59.26	119	35 - 135
Bis(2-ethylhexyl)phthalate	50.00	49.83	99.7	40 - 125
Hexachlorobenzene	50.00	44.30	88.6	50 - 110

LCS / LCS DUPLICATE RECOVERY

SW8270C

Laboratory:	Empirical Laboratories, LLC	SDG:	1110003
Client:	Tetra Tech NUS, Inc. (T010)	Project:	Navy Fuel Depot CTO JM46
Matrix:	Water		
Batch:	1J06004	Laboratory ID:	1J06004-BS1
Preparation:	EXT_3510	Initial/Final:	1000 mL / 1 mL

ANALYTE	SPIKE ADDED (ug/L)	LCS CONCENTRATION (ug/L)	LCS % REC.	QC LIMITS REC.
Hexachlorocyclopentadiene	**50.00**	**4.643**	**9.29**	**10 - 110**
Hexachloroethane	**50.00**	**14.42**	**28.8**	**30 - 95**
Isophorone	50.00	36.26	72.5	50 - 110
2-Methylphenol	49.70	21.64	43.6	40 - 110
4-Methylphenol	49.70	21.09	42.4	30 - 110
Naphthalene	50.00	35.06	70.1	40 - 100
4-Nitroaniline	50.00	32.38	64.8	35 - 120
3-Nitroaniline	50.00	26.93	53.9	20 - 125
2-Nitroaniline	50.00	39.22	78.4	50 - 115
Nitrobenzene	50.00	43.34	86.7	30 - 110
4-Nitrophenol	49.70	10.46	21.1	0 - 125
2-Nitrophenol	49.70	34.56	69.5	40 - 115
N-Nitrosodiphenylamine	50.00	30.67	61.3	50 - 110
N-Nitroso-di-n-propylamine	50.00	39.37	78.7	35 - 130
Phenol	49.70	10.08	20.3	0 - 115
1,2,4,5-Tetrachlorobenzene	50.00	43.86	87.7	50 - 125
2,3,4,6-Tetrachlorophenol	50.00	35.89	71.8	50 - 125
2,4,6-Trichlorophenol	49.70	37.28	75.0	50 - 115
2,4,5-Trichlorophenol	49.70	35.23	70.9	50 - 110

MATRIX SPIKE / MATRIX SPIKE DUPLICATE RECOVERY

SW8270C

FLC-5-MW01-092911

Laboratory: Empirical Laboratories, LLC

SDG: 1110003

Client: Tetra Tech NUS, Inc. (T010)

Project: Navy Fuel Depot CTO JM46

Matrix: Water

Batch: 1J03003

% Solids:

Source Sample Name: **1110003-12**

ANALYTE	SPIKE ADDED (ug/L)	SAMPLE CONCENTRATION (ug/L)	MS CONCENTRATION (ug/L)	MS % REC.	Q	QC LIMITS REC.
3,3'-Dichlorobenzidine	46.30	ND	4.63 U	0	*	20 - 110
Acetophenone	46.30	ND	30.34	65.5		50 - 110
Atrazine	46.30	ND	29.31	63.3	*	70 - 115
Benzaldehyde	46.30	ND	32.76	70.8		10 - 180
1,1-Biphenyl	46.30	ND	37.78	81.6		50 - 110
4-Bromophenyl-phenylether	46.30	ND	44.06	95.2		50 - 115
Butylbenzylphthalate	46.30	ND	38.89	84.0		45 - 115
Caprolactam	46.30	ND	5.553	12.0	*	20 - 110
Carbazole	46.30	ND	33.87	73.2		50 - 115
4-Chloro-3-methylphenol	46.30	ND	24.08	52.0		45 - 110
4-Chloroaniline	46.30	ND	13.71	29.6		15 - 110
Bis(2-chloroethoxy)methane	46.30	ND	41.66	90.0		45 - 105
Bis(2-chloroethyl)ether	46.30	ND	28.86	62.3		35 - 110
2,2'-Oxybis-1-chloropropane	46.30	ND	34.19	73.8		25 - 130
2-Chloronaphthalene	46.30	ND	34.71	75.0		50 - 105
2-Chlorophenol	46.30	ND	19.05	41.2		35 - 105
4-Chlorophenyl phenyl ether	46.30	ND	39.64	85.6		50 - 110
Dibenzofuran	46.30	ND	35.88	77.5		55 - 105
Di-n-butylphthalate	46.30	ND	34.42	74.3		55 - 115
2,4-Dichlorophenol	46.30	ND	27.91	60.3		40 - 110
Diethylphthalate	46.30	ND	32.09	69.3		40 - 120
2,4-Dimethylphenol	46.30	ND	30.23	65.3		30 - 110
Dimethyl phthalate	46.30	ND	39.85	86.1		25 - 125
4,6-Dinitro-2-methylphenol	46.30	ND	17.66	38.1	*	40 - 130
2,4-Dinitrophenol	46.30	ND	46.3 U	0	*	15 - 140
2,4-Dinitrotoluene	46.30	ND	34.41	74.3		50 - 120
2,6-Dinitrotoluene	46.30	ND	31.99	69.1		50 - 115
Di-n-octylphthalate	46.30	ND	36.47	78.8		35 - 135
Bis(2-ethylhexyl)phthalate	46.30	ND	40.76	88.0		40 - 125
Hexachlorobenzene	46.30	ND	39.04	84.3		50 - 110
Hexachlorocyclopentadiene	46.30	ND	22.14	47.8		10 - 110
Hexachloroethane	46.30	ND	21.47	46.4		30 - 95

MATRIX SPIKE / MATRIX SPIKE DUPLICATE RECOVERY

SW8270C

FLC-5-MW01-092911

Laboratory: Empirical Laboratories, LLC

SDG: 1110003

Client: Tetra Tech NUS, Inc. (T010)

Project: Navy Fuel Depot CTO JM46

Matrix: Water

Batch: 1J03003

% Solids:

Source Sample Name: **1110003-12**

ANALYTE	SPIKE ADDED (ug/L)	SAMPLE CONCENTRATION (ug/L)	MS CONCENTRATION (ug/L)	MS % REC.	Q	QC LIMITS REC.
Isophorone	46.30	ND	33.50	72.4		50 - 110
2-Methylphenol	46.30	ND	16.10	34.8	*	40 - 110
4-Methylphenol	46.30	ND	13.24	28.6	*	30 - 110
Naphthalene	46.30	ND	28.32	61.2		40 - 100
4-Nitroaniline	46.30	ND	13.91	30.0	*	35 - 120
3-Nitroaniline	46.30	ND	19.27	41.6		20 - 125
2-Nitroaniline	46.30	ND	36.07	77.9		50 - 115
Nitrobenzene	46.30	ND	40.06	86.5		30 - 110
4-Nitrophenol	46.30	ND	4.743	10.2		0 - 125
2-Nitrophenol	46.30	ND	31.67	68.4		40 - 115
N-Nitrosodiphenylamine	46.30	ND	33.40	72.2		50 - 110
N-Nitroso-di-n-propylamine	46.30	ND	34.88	75.3		35 - 130
Phenol	46.30	ND	6.694	14.5		0 - 115
1,2,4,5-Tetrachlorobenzene	46.30	ND	39.57	85.5		50 - 125
2,3,4,6-Tetrachlorophenol	46.30	ND	25.57	55.2		50 - 125
2,4,6-Trichlorophenol	46.30	ND	31.89	68.9		50 - 115
2,4,5-Trichlorophenol	46.30	ND	31.58	68.2		50 - 110

MATRIX SPIKE / MATRIX SPIKE DUPLICATE RECOVERY

SW8270C

FLC-5-MW01-092911

Laboratory: Empirical Laboratories, LLC

SDG: 1110003

Client: Tetra Tech NUS, Inc. (T010)

Project: Navy Fuel Depot CTO JM46

Matrix: Water

Batch: 1J03003

% Solids:

Source Sample Name: **1110003-12**

ANALYTE	SPIKE ADDED (ug/L)	MSD CONCENTRATION (ug/L)	MSD % REC. #	% RPD	Q	QC LIMITS RPD	QC LIMITS REC.
3,3'-Dichlorobenzidine	46.30	4.63 U	0		*	30	20 - 110
Acetophenone	46.30	23.42	50.6	25.8		30	50 - 110
Atrazine	46.30	24.80	53.6	16.7	*	30	70 - 115
Benzaldehyde	46.30	28.29	61.1	14.7		30	10 - 180
1,1-Biphenyl	46.30	32.94	71.1	13.7		30	50 - 110
4-Bromophenyl-phenylether	46.30	42.62	92.1	3.33		30	50 - 115
Butylbenzylphthalate	46.30	32.29	69.7	18.6		30	45 - 115
Caprolactam	46.30	6.613	14.3	17.4	*	30	20 - 110
Carbazole	46.30	29.02	62.7	15.4		30	50 - 115
4-Chloro-3-methylphenol	46.30	13.64	29.5	55.4	* *	30	45 - 110
4-Chloroaniline	46.30	11.92	25.7	14.0		30	15 - 110
Bis(2-chloroethoxy)methane	46.30	32.64	70.5	24.3		30	45 - 105
Bis(2-chloroethyl)ether	46.30	25.16	54.3	13.7		30	35 - 110
2,2'-Oxybis-1-chloropropane	46.30	27.37	59.1	22.1		30	25 - 130
2-Chloronaphthalene	46.30	31.61	68.3	9.36		30	50 - 105
2-Chlorophenol	46.30	11.66	25.2	48.1	* *	30	35 - 105
4-Chlorophenyl phenyl ether	46.30	32.89	71.0	18.6		30	50 - 110
Dibenzofuran	46.30	32.79	70.8	9.00		30	55 - 105
Di-n-butylphthalate	46.30	30.62	66.1	11.7		30	55 - 115
2,4-Dichlorophenol	46.30	14.54	31.4	63.0	* *	30	40 - 110
Diethylphthalate	46.30	24.88	53.7	25.3		30	40 - 120
2,4-Dimethylphenol	46.30	18.07	39.0	50.3	*	30	30 - 110
Dimethyl phthalate	46.30	31.71	68.5	22.8		30	25 - 125
4,6-Dinitro-2-methylphenol	46.30	11.00	23.8	46.5	* *	30	40 - 130
2,4-Dinitrophenol	46.30	46.3 U	0		*	30	15 - 140
2,4-Dinitrotoluene	46.30	27.46	59.3	22.5		30	50 - 120
2,6-Dinitrotoluene	46.30	27.42	59.2	15.4		30	50 - 115
Di-n-octylphthalate	46.30	39.27	84.8	7.40		30	35 - 135
Bis(2-ethylhexyl)phthalate	46.30	32.39	70.0	22.9		30	40 - 125
Hexachlorobenzene	46.30	34.93	75.4	11.1		30	50 - 110
Hexachlorocyclopentadiene	46.30	18.01	38.9	20.6		30	10 - 110
Hexachloroethane	46.30	18.71	40.4	13.7		30	30 - 95
Isophorone	46.30	27.51	59.4	19.6		30	50 - 110

MATRIX SPIKE / MATRIX SPIKE DUPLICATE RECOVERY

SW8270C

FLC-5-MW01-092911

Laboratory: Empirical Laboratories, LLC

SDG: 1110003

Client: Tetra Tech NUS, Inc. (T010)

Project: Navy Fuel Depot CTO JM46

Matrix: Water

Batch: 1J03003

% Solids:

Source Sample Name: **1110003-12**

ANALYTE	SPIKE ADDED (ug/L)	MSD CONCENTRATION (ug/L)	MSD % REC. #	% RPD	Q	QC LIMITS RPD	QC LIMITS REC.
2-Methylphenol	46.30	10.79	23.3	39.5	* *	30	40 - 110
4-Methylphenol	46.30	8.195	17.7	47.0	* *	30	30 - 110
Naphthalene	46.30	23.50	50.8	18.6		30	40 - 100
4-Nitroaniline	46.30	12.83	27.7	8.06	*	30	35 - 120
3-Nitroaniline	46.30	11.41	24.6	51.2	*	30	20 - 125
2-Nitroaniline	46.30	28.36	61.3	23.9		30	50 - 115
Nitrobenzene	46.30	30.96	66.9	25.6		30	30 - 110
4-Nitrophenol	46.30	18.5 U	0			30	0 - 125
2-Nitrophenol	46.30	19.53	42.2	47.4	*	30	40 - 115
N-Nitrosodiphenylamine	46.30	25.40	54.9	27.2		30	50 - 110
N-Nitroso-di-n-propylamine	46.30	26.69	57.6	26.6		30	35 - 130
Phenol	46.30	4.869	10.5	31.6	*	30	0 - 115
1,2,4,5-Tetrachlorobenzene	46.30	30.36	65.6	26.3		30	50 - 125
2,3,4,6-Tetrachlorophenol	46.30	13.20	28.5	63.8	* *	30	50 - 125
2,4,6-Trichlorophenol	46.30	19.25	41.6	49.4	* *	30	50 - 115
2,4,5-Trichlorophenol	46.30	19.06	41.2	49.4	* *	30	50 - 110

PREPARATION BATCH SUMMARY

SW8270C

Laboratory: Empirical Laboratories, LLC SDG: 1110003

Client: Tetra Tech NUS, Inc. (T010) Project: Navy Fuel Depot CTO JM46

Batch: 1J03003 Batch Matrix: Water Preparation: EXT_3510

SAMPLE NAME	LAB SAMPLE ID	DATE PREPARED	INITIAL VOL./WEIGHT	FINAL VOL.
FLC-4-MW01-092911	1110003-01	10/03/11 12:10	1,070.00	1.00
FLC-4-MW02-092911	1110003-03	10/03/11 12:10	1,080.00	1.00
FLC-5-MW05-092911	1110003-05	10/03/11 12:10	1,080.00	1.00
FLC-5-MW04-092911	1110003-07	10/03/11 12:10	1,080.00	1.00
FLC-5-MW03-092911	1110003-09	10/03/11 12:10	1,080.00	1.00
FLC-RB02-092911	1110003-11	10/03/11 12:10	1,070.00	1.00
FLC-5-MW01-092911	1110003-12	10/03/11 12:10	1,080.00	1.00
FLC-5-MW02-092911	1110003-14	10/03/11 12:10	1,080.00	1.00
Blank	1J03003-BLK1	10/03/11 12:10	1,000.00	1.00
LCS	1J03003-BS1	10/03/11 12:10	1,000.00	1.00
FLC-5-MW01-092911	1J03003-MS1	10/03/11 12:10	1,080.00	1.00
FLC-5-MW01-092911	1J03003-MSD1	10/03/11 12:10	1,080.00	1.00

PREPARATION BATCH SUMMARY

SW8270C

Laboratory: Empirical Laboratories, LLC SDG: 1110003

Client: Tetra Tech NUS, Inc. (T010) Project: Navy Fuel Depot CTO JM46

Batch: 1J06004 Batch Matrix: Water Preparation: EXT_3510

SAMPLE NAME	LAB SAMPLE ID	DATE PREPARED	INITIAL VOL./WEIGHT	FINAL VOL.
FLC-5-MW03-092911	1110003-09RE1	10/06/11 12:20	1,080.00	1.00
FLC-5-MW01-092911	1110003-12RE1	10/06/11 12:20	1,070.00	1.00
Blank	1J06004-BLK1	10/06/11 12:20	1,000.00	1.00
LCS	1J06004-BS1	10/06/11 12:20	1,000.00	1.00

MASS SPECTROMETER INSTRUMENT PERFORMANCE CHECK

SW8270C

Laboratory:	Empirical Laboratories, LLC	SDG:	1110003
Client:	Tetra Tech NUS, Inc. (T010)	Project:	Navy Fuel Depot CTO JM46
Lab File ID:	SEQ-TUN1.D	Injection Date:	04/29/11
Instrument ID:	MS-BNA3	Injection Time:	17:21
Sequence:	1E12203	Lab Sample ID:	1E12203-TUN1

m/z	ION ABUNDANCE CRITERIA	% RELATIVE ABUNDANCE	
51	30 - 60% of 198	47.3	PASS
68	Less than 2% of 69	0	PASS
69	Less than 200% of 198	52.7	PASS
70	Less than 2% of 69	0.492	PASS
127	40 - 60% of 198	54.6	PASS
197	Less than 1% of 198	0	PASS
198	Base peak, 100% relative abundance	100	PASS
199	5 - 9% of 198	6.87	PASS
275	10 - 30% of 198	22	PASS
365	1 - 200% of 198	2.1	PASS
441	0.001 - 100% of 443	77.8	PASS
442	40 - 200% of 198	47.4	PASS
443	17 - 23% of 442	19.2	PASS

MASS SPECTROMETER INSTRUMENT PERFORMANCE CHECK

SW8270C

Laboratory:	Empirical Laboratories, LLC	SDG:	1110003
Client:	Tetra Tech NUS, Inc. (T010)	Project:	Navy Fuel Depot CTO JM46
Lab File ID:	SEQ-TUN1.D	Injection Date:	04/30/11
Instrument ID:	MS-BNA3	Injection Time:	14:42
Sequence:	1E12203	Lab Sample ID:	1E12203-TUN2

m/z	ION ABUNDANCE CRITERIA	% RELATIVE ABUNDANCE	
51	30 - 60% of 198	52.2	PASS
68	Less than 2% of 69	0	PASS
69	Less than 200% of 198	55.8	PASS
70	Less than 2% of 69	0.42	PASS
127	40 - 60% of 198	56.8	PASS
197	Less than 1% of 198	0	PASS
198	Base peak, 100% relative abundance	100	PASS
199	5 - 9% of 198	7.25	PASS
275	10 - 30% of 198	22.9	PASS
365	1 - 200% of 198	2.34	PASS
441	0.001 - 100% of 443	74.4	PASS
442	40 - 200% of 198	46.4	PASS
443	17 - 23% of 442	20.9	PASS

MASS SPECTROMETER INSTRUMENT PERFORMANCE CHECK

SW8270C

Laboratory:	Empirical Laboratories, LLC	SDG:	1110003
Client:	Tetra Tech NUS, Inc. (T010)	Project:	Navy Fuel Depot CTO JM46
Lab File ID:	SEQ-TUN1.D	Injection Date:	05/02/11
Instrument ID:	MS-BNA3	Injection Time:	13:51
Sequence:	1E12203	Lab Sample ID:	1E12203-TUN3

m/z	ION ABUNDANCE CRITERIA	% RELATIVE ABUNDANCE	
51	30 - 60% of 198	52.5	PASS
68	Less than 2% of 69	0	PASS
69	Less than 200% of 198	58.2	PASS
70	Less than 2% of 69	0.51	PASS
127	40 - 60% of 198	56.1	PASS
197	Less than 1% of 198	0	PASS
198	Base peak, 100% relative abundance	100	PASS
199	5 - 9% of 198	7.39	PASS
275	10 - 30% of 198	21.4	PASS
365	1 - 200% of 198	2.24	PASS
441	0.001 - 100% of 443	72.1	PASS
442	40 - 200% of 198	46.9	PASS
443	17 - 23% of 442	21.4	PASS

MASS SPECTROMETER INSTRUMENT PERFORMANCE CHECK

SW8270C

Laboratory:	Empirical Laboratories, LLC	SDG:	1110003
Client:	Tetra Tech NUS, Inc. (T010)	Project:	Navy Fuel Depot CTO JM46
Lab File ID:	SEQ-TUN1.D	Injection Date:	09/10/11
Instrument ID:	MS-BNA1	Injection Time:	16:29
Sequence:	1I25701	Lab Sample ID:	1I25701-TUN1

m/z	ION ABUNDANCE CRITERIA	% RELATIVE ABUNDANCE	
51	30 - 60% of 198	30.2	PASS
68	Less than 2% of 69	1.13	PASS
69	Less than 200% of 198	37.6	PASS
70	Less than 2% of 69	0.099	PASS
127	40 - 60% of 198	44.4	PASS
197	Less than 1% of 198	0	PASS
198	Base peak, 100% relative abundance	100	PASS
199	5 - 9% of 198	6.49	PASS
275	10 - 30% of 198	15.3	PASS
365	1 - 200% of 198	2.02	PASS
441	0.001 - 100% of 443	79.3	PASS
442	40 - 200% of 198	53.7	PASS
443	17 - 23% of 442	18.5	PASS

MASS SPECTROMETER INSTRUMENT PERFORMANCE CHECK

SW8270C

Laboratory:	Empirical Laboratories, LLC	SDG:	1110003
Client:	Tetra Tech NUS, Inc. (T010)	Project:	Navy Fuel Depot CTO JM46
Lab File ID:	SEQ-TUN2.D	Injection Date:	09/13/11
Instrument ID:	MS-BNA1	Injection Time:	15:01
Sequence:	1I25701	Lab Sample ID:	1I25701-TUN2

m/z	ION ABUNDANCE CRITERIA	% RELATIVE ABUNDANCE	
51	30 - 60% of 198	33.4	PASS
68	Less than 2% of 69	0.839	PASS
69	Less than 200% of 198	42.4	PASS
70	Less than 2% of 69	0.514	PASS
127	40 - 60% of 198	49.2	PASS
197	Less than 1% of 198	0.297	PASS
198	Base peak, 100% relative abundance	100	PASS
199	5 - 9% of 198	6.83	PASS
275	10 - 30% of 198	15.2	PASS
365	1 - 200% of 198	2.11	PASS
441	0.001 - 100% of 443	71.1	PASS
442	40 - 200% of 198	49.6	PASS
443	17 - 23% of 442	19.8	PASS

MASS SPECTROMETER INSTRUMENT PERFORMANCE CHECK

SW8270C

Laboratory:	Empirical Laboratories, LLC	SDG:	1110003
Client:	Tetra Tech NUS, Inc. (T010)	Project:	Navy Fuel Depot CTO JM46
Lab File ID:	SEQ-TUN1.D	Injection Date:	10/05/11
Instrument ID:	MS-BNA1	Injection Time:	08:24
Sequence:	1J27903	Lab Sample ID:	1J27903-TUN1

m/z	ION ABUNDANCE CRITERIA	% RELATIVE ABUNDANCE	
51	30 - 60% of 198	36.1	PASS
68	Less than 2% of 69	0.569	PASS
69	Less than 200% of 198	45	PASS
70	Less than 2% of 69	0.436	PASS
127	40 - 60% of 198	48.3	PASS
197	Less than 1% of 198	0.293	PASS
198	Base peak, 100% relative abundance	100	PASS
199	5 - 9% of 198	6.66	PASS
275	10 - 30% of 198	17.5	PASS
365	1 - 200% of 198	2.11	PASS
441	0.001 - 100% of 443	75.2	PASS
442	40 - 200% of 198	52.5	PASS
443	17 - 23% of 442	19.5	PASS

MASS SPECTROMETER INSTRUMENT PERFORMANCE CHECK

SW8270C

Laboratory:	Empirical Laboratories, LLC	SDG:	1110003
Client:	Tetra Tech NUS, Inc. (T010)	Project:	Navy Fuel Depot CTO JM46
Lab File ID:	SEQ-TUN1.D	Injection Date:	10/19/11
Instrument ID:	MS-BNA3	Injection Time:	14:12
Sequence:	1J29315	Lab Sample ID:	1J29315-TUN1

m/z	ION ABUNDANCE CRITERIA	% RELATIVE ABUNDANCE	
51	30 - 60% of 198	50.2	PASS
68	Less than 2% of 69	0	PASS
69	Less than 200% of 198	56.8	PASS
70	Less than 2% of 69	0.754	PASS
127	40 - 60% of 198	52.6	PASS
197	Less than 1% of 198	0	PASS
198	Base peak, 100% relative abundance	100	PASS
199	5 - 9% of 198	7.35	PASS
275	10 - 30% of 198	23.9	PASS
365	1 - 200% of 198	3.66	PASS
441	0.001 - 100% of 443	81.7	PASS
442	40 - 200% of 198	51.5	PASS
443	17 - 23% of 442	21.1	PASS

ANALYSIS SEQUENCE SUMMARY

SW8270C

Laboratory:	Empirical Laboratories, LLC	SDG:	1110003
Client:	Tetra Tech NUS, Inc. (T010)	Project:	Navy Fuel Depot CTO JM46
Sequence:	1E12203	Instrument:	MS-BNA3
Calibration:	1236001		

Sample Name	Lab Sample ID	Lab File ID	Analysis Date/Time
MS Tune	1E12203-TUN1	SEQ-TUN1.D	04/29/11 17:21
Cal Standard	1E12203-CAL1	SEQ-CAL1.D	04/29/11 17:45
Cal Standard	1E12203-CAL2	SEQ-CAL2.D	04/29/11 18:19
Cal Standard	1E12203-CAL3	SEQ-CAL3.D	04/29/11 18:52
Cal Standard	1E12203-CAL4	SEQ-CAL4.D	04/29/11 19:25
Cal Standard	1E12203-CAL5	SEQ-CAL5.D	04/29/11 19:58
Cal Standard	1E12203-CAL6	SEQ-CAL6.D	04/29/11 20:31
Cal Standard	1E12203-CAL7	SEQ-CAL7.D	04/29/11 21:04
Cal Standard	1E12203-CAL8	SEQ-CAL8.D	04/29/11 21:37
Cal Standard	1E12203-CAL9	SEQ-CAL9.D	04/29/11 22:09
Cal Standard	1E12203-CALA	SEQ-CALA.D	04/29/11 22:42
Cal Standard	1E12203-CALB	SEQ-CALB.D	04/29/11 23:15
Cal Standard	1E12203-CALC	SEQ-CALC.D	04/29/11 23:47
Cal Standard	1E12203-CALD	SEQ-CALD.D	04/30/11 00:20
Cal Standard	1E12203-CALE	SEQ-CALE.D	04/30/11 00:53
Cal Standard	1E12203-CALF	SEQ-CALF.D	04/30/11 01:25
Cal Standard	1E12203-CALG	SEQ-CALG.D	04/30/11 01:58
MS Tune	1E12203-TUN2	SEQ-TUN1.D	04/30/11 14:42
Initial Cal Check	1E12203-ICV1	SEQ-ICV1.D	04/30/11 15:07
Initial Cal Check	1E12203-ICV2	SEQ-ICV2.D	04/30/11 15:40
Initial Cal Check	1E12203-ICV3	SEQ-ICV5.D	04/30/11 17:19
MS Tune	1E12203-TUN3	SEQ-TUN1.D	05/02/11 13:51
Initial Cal Check	1E12203-ICV4	SEQ-ICV4.D	05/02/11 14:16

ANALYSIS SEQUENCE SUMMARY

SW8270C

Laboratory:	Empirical Laboratories, LLC	SDG:	1110003
Client:	Tetra Tech NUS, Inc. (T010)	Project:	Navy Fuel Depot CTO JM46
Sequence:	1I25701	Instrument:	MS-BNA1
Calibration:	1257001		

Sample Name	Lab Sample ID	Lab File ID	Analysis Date/Time
MS Tune	1I25701-TUN1	SEQ-TUN1.D	09/10/11 16:29
Cal Standard	1I25701-CAL1	SEQ-CAL1.D	09/10/11 16:55
Cal Standard	1I25701-CAL2	SEQ-CAL2.D	09/10/11 17:29
Cal Standard	1I25701-CAL3	SEQ-CAL3.D	09/10/11 18:03
Cal Standard	1I25701-CAL4	SEQ-CAL4.D	09/10/11 18:37
Cal Standard	1I25701-CAL5	SEQ-CAL5.D	09/10/11 19:11
Cal Standard	1I25701-CAL6	SEQ-CAL6.D	09/10/11 19:45
Cal Standard	1I25701-CAL7	SEQ-CAL7.D	09/10/11 20:19
Cal Standard	1I25701-CAL8	SEQ-CAL8.D	09/10/11 20:53
Cal Standard	1I25701-CAL9	SEQ-CAL9.D	09/10/11 21:27
Initial Cal Check	1I25701-ICV1	SEQ-ICV1.D	09/10/11 22:40
MS Tune	1I25701-TUN2	SEQ-TUN2.D	09/13/11 15:01
Initial Cal Check	1I25701-ICV2	SEQ-ICV2.D	09/13/11 15:28

ANALYSIS SEQUENCE SUMMARY

SW8270C

Laboratory:	Empirical Laboratories, LLC	SDG:	1110003
Client:	Tetra Tech NUS, Inc. (T010)	Project:	Navy Fuel Depot CTO JM46
Sequence:	1J27903	Instrument:	MS-BNA1
Calibration:	1257001		

Sample Name	Lab Sample ID	Lab File ID	Analysis Date/Time
MS Tune	1J27903-TUN1	SEQ-TUN1.D	10/05/11 08:24
Calibration Check	1J27903-CCV1	SEQ-CCV1.D	10/05/11 08:50
LCS	1J03003-BS1	J03003L1.D	10/05/11 10:07
Blank	1J03003-BLK1	J03003B1.D	10/05/11 10:41
FLC-4-MW01-092911	1110003-01	1000301.D	10/05/11 13:00
FLC-4-MW02-092911	1110003-03	1000303.D	10/05/11 13:34
FLC-5-MW05-092911	1110003-05	1000305.D	10/05/11 14:09
FLC-5-MW04-092911	1110003-07	1000307.D	10/05/11 14:43
FLC-5-MW03-092911	1110003-09	1000309.D	10/05/11 15:18
FLC-RB02-092911	1110003-11	1000311.D	10/05/11 15:52
FLC-5-MW01-092911	1110003-12	1000312.D	10/05/11 16:27
FLC-5-MW02-092911	1110003-14	1000314.D	10/05/11 17:01
FLC-5-MW01-092911	1J03003-MS1	1000312M.D	10/05/11 17:35
FLC-5-MW01-092911	1J03003-MSD1	1000312S.D	10/05/11 18:09

ANALYSIS SEQUENCE SUMMARY

SW8270C

Laboratory:	Empirical Laboratories, LLC	SDG:	1110003
Client:	Tetra Tech NUS, Inc. (T010)	Project:	Navy Fuel Depot CTO JM46
Sequence:	1J29315	Instrument:	MS-BNA3
Calibration:	1236001		

Sample Name	Lab Sample ID	Lab File ID	Analysis Date/Time
MS Tune	1J29315-TUN1	SEQ-TUN1.D	10/19/11 14:12
Calibration Check	1J29315-CCV1	SEQ-CCV1.D	10/19/11 14:39
Blank	1J06004-BLK1	J06004B1.D	10/19/11 22:16
LCS	1J06004-BS1	J06004L1.D	10/19/11 22:51
FLC-5-MW03-092911	1110003-09RE1	1000309R.D	10/19/11 23:27
FLC-5-MW01-092911	1110003-12RE1	1000312R.D	10/20/11 00:02

INTERNAL STANDARD AREA AND RT SUMMARY
SW8270C

Laboratory:	Empirical Laboratories, LLC	SDG:	1110003
Client:	Tetra Tech NUS, Inc. (T010)	Project:	Navy Fuel Depot CTO JM46
Sequence:	1J27903	Instrument:	MS-BNA1
		Calibration:	1257001

Internal Standard	Response	RT	Reference Response	Reference RT	Area %	Area % Limits	RT Diff	RT Diff Limit	Q
Calibration Check (1J27903-CCV1)			Lab File ID: SEQ-CCV1.D			Analyzed: 10/05/11 08:50			
1,4-Dichlorobenzene-d4	734656	6.707	644422	6.972	114	50 - 200	-0.2650	+/-0.50	
Naphthalene-d8	2286793	8.349	2151545	8.607	106	50 - 200	-0.2580	+/-0.50	
Acenaphthene-d10	1053029	10.554	962798	10.82	109	50 - 200	-0.2660	+/-0.50	
Phenanthrene-d10	1517490	12.385	1465554	12.662	104	50 - 200	-0.2770	+/-0.50	
Chrysene-d12	1034228	16.479	1028903	16.851	101	50 - 200	-0.3720	+/-0.50	
Perylene-d12	803876	19.191	763782	19.591	105	50 - 200	-0.4000	+/-0.50	
LCS (1J03003-BS1)			Lab File ID: J03003L1.D			Analyzed: 10/05/11 10:07			
1,4-Dichlorobenzene-d4	641311	6.709	734656	6.707	87	50 - 200	0.0020	+/-0.50	
Naphthalene-d8	1978656	8.341	2286793	8.349	87	50 - 200	-0.0080	+/-0.50	
Acenaphthene-d10	764480	10.55	1053029	10.554	73	50 - 200	-0.0040	+/-0.50	
Phenanthrene-d10	1211622	12.387	1517490	12.385	80	50 - 200	0.0020	+/-0.50	
Chrysene-d12	748358	16.473	1034228	16.479	72	50 - 200	-0.0060	+/-0.50	
Perylene-d12	490527	19.187	803876	19.191	61	50 - 200	-0.0040	+/-0.50	
Blank (1J03003-BLK1)			Lab File ID: J03003B1.D			Analyzed: 10/05/11 10:41			
1,4-Dichlorobenzene-d4	755996	6.707	734656	6.707	103	50 - 200	0.0000	+/-0.50	
Naphthalene-d8	2225675	8.343	2286793	8.349	97	50 - 200	-0.0060	+/-0.50	
Acenaphthene-d10	1072185	10.547	1053029	10.554	102	50 - 200	-0.0070	+/-0.50	
Phenanthrene-d10	1552959	12.383	1517490	12.385	102	50 - 200	-0.0020	+/-0.50	
Chrysene-d12	1080589	16.468	1034228	16.479	104	50 - 200	-0.0110	+/-0.50	
Perylene-d12	847455	19.183	803876	19.191	105	50 - 200	-0.0080	+/-0.50	
FLC-4-MW01-092911 (1110003-01)			Lab File ID: 1000301.D			Analyzed: 10/05/11 13:00			
1,4-Dichlorobenzene-d4	955479	6.707	734656	6.707	130	50 - 200	0.0000	+/-0.50	
Naphthalene-d8	2634858	8.349	2286793	8.349	115	50 - 200	0.0000	+/-0.50	
Acenaphthene-d10	1185034	10.55	1053029	10.554	113	50 - 200	-0.0040	+/-0.50	
Phenanthrene-d10	1973164	12.387	1517490	12.385	130	50 - 200	0.0020	+/-0.50	
Chrysene-d12	1356838	16.474	1034228	16.479	131	50 - 200	-0.0050	+/-0.50	
Perylene-d12	975974	19.185	803876	19.191	121	50 - 200	-0.0060	+/-0.50	
FLC-4-MW02-092911 (1110003-03)			Lab File ID: 1000303.D			Analyzed: 10/05/11 13:34			
1,4-Dichlorobenzene-d4	773667	6.71	734656	6.707	105	50 - 200	0.0030	+/-0.50	
Naphthalene-d8	2495960	8.341	2286793	8.349	109	50 - 200	-0.0080	+/-0.50	
Acenaphthene-d10	1026806	10.553	1053029	10.554	98	50 - 200	-0.0010	+/-0.50	
Phenanthrene-d10	1599829	12.384	1517490	12.385	105	50 - 200	-0.0010	+/-0.50	
Chrysene-d12	975836	16.475	1034228	16.479	94	50 - 200	-0.0040	+/-0.50	
Perylene-d12	709859	19.186	803876	19.191	88	50 - 200	-0.0050	+/-0.50	

INTERNAL STANDARD AREA AND RT SUMMARY
SW8270C

Laboratory: Empirical Laboratories, LLC
SDG: 1110003
Client: Tetra Tech NUS, Inc. (T010)
Project: Navy Fuel Depot CTO JM46
Sequence: 1J27903
Instrument: MS-BNA1
Calibration: 1257001

Internal Standard	Response	RT	Reference Response	Reference RT	Area %	Area % Limits	RT Diff	RT Diff Limit	Q
FLC-5-MW05-092911 (1110003-05)			Lab File ID: 1000305.D			Analyzed: 10/05/11 14:09			
1,4-Dichlorobenzene-d4	1019859	6.711	734656	6.707	139	50 - 200	0.0040	+/-0.50	
Naphthalene-d8	3145036	8.344	2286793	8.349	138	50 - 200	-0.0050	+/-0.50	
Acenaphthene-d10	1506556	10.555	1053029	10.554	143	50 - 200	0.0010	+/-0.50	
Phenanthrene-d10	2131275	12.391	1517490	12.385	140	50 - 200	0.0060	+/-0.50	
Chrysene-d12	1314051	16.474	1034228	16.479	127	50 - 200	-0.0050	+/-0.50	
Perylene-d12	798313	19.194	803876	19.191	99	50 - 200	0.0030	+/-0.50	
FLC-5-MW04-092911 (1110003-07)			Lab File ID: 1000307.D			Analyzed: 10/05/11 14:43			
1,4-Dichlorobenzene-d4	795755	6.709	734656	6.707	108	50 - 200	0.0020	+/-0.50	
Naphthalene-d8	2408383	8.341	2286793	8.349	105	50 - 200	-0.0080	+/-0.50	
Acenaphthene-d10	1201280	10.559	1053029	10.554	114	50 - 200	0.0050	+/-0.50	
Phenanthrene-d10	1783567	12.391	1517490	12.385	118	50 - 200	0.0060	+/-0.50	
Chrysene-d12	1158358	16.478	1034228	16.479	112	50 - 200	-0.0010	+/-0.50	
Perylene-d12	787582	19.191	803876	19.191	98	50 - 200	0.0000	+/-0.50	
FLC-5-MW03-092911 (1110003-09)			Lab File ID: 1000309.D			Analyzed: 10/05/11 15:18			
1,4-Dichlorobenzene-d4	1050247	6.711	734656	6.707	143	50 - 200	0.0040	+/-0.50	
Naphthalene-d8	3024443	8.351	2286793	8.349	132	50 - 200	0.0020	+/-0.50	
Acenaphthene-d10	1244335	10.557	1053029	10.554	118	50 - 200	0.0030	+/-0.50	
Phenanthrene-d10	1878108	12.389	1517490	12.385	124	50 - 200	0.0040	+/-0.50	
Chrysene-d12	1253560	16.474	1034228	16.479	121	50 - 200	-0.0050	+/-0.50	
Perylene-d12	845532	19.19	803876	19.191	105	50 - 200	-0.0010	+/-0.50	
FLC-RB02-092911 (1110003-11)			Lab File ID: 1000311.D			Analyzed: 10/05/11 15:52			
1,4-Dichlorobenzene-d4	747280	6.712	734656	6.707	102	50 - 200	0.0050	+/-0.50	
Naphthalene-d8	2598404	8.341	2286793	8.349	114	50 - 200	-0.0080	+/-0.50	
Acenaphthene-d10	1005064	10.558	1053029	10.554	95	50 - 200	0.0040	+/-0.50	
Phenanthrene-d10	1652768	12.384	1517490	12.385	109	50 - 200	-0.0010	+/-0.50	
Chrysene-d12	1063274	16.476	1034228	16.479	103	50 - 200	-0.0030	+/-0.50	
Perylene-d12	833107	19.187	803876	19.191	104	50 - 200	-0.0040	+/-0.50	
FLC-5-MW01-092911 (1110003-12)			Lab File ID: 1000312.D			Analyzed: 10/05/11 16:27			
1,4-Dichlorobenzene-d4	863164	6.712	734656	6.707	117	50 - 200	0.0050	+/-0.50	
Naphthalene-d8	2467334	8.345	2286793	8.349	108	50 - 200	-0.0040	+/-0.50	
Acenaphthene-d10	1053442	10.559	1053029	10.554	100	50 - 200	0.0050	+/-0.50	
Phenanthrene-d10	1408046	12.389	1517490	12.385	93	50 - 200	0.0040	+/-0.50	
Chrysene-d12	668722	16.476	1034228	16.479	65	50 - 200	-0.0030	+/-0.50	
Perylene-d12	468235	19.194	803876	19.191	58	50 - 200	0.0030	+/-0.50	

INTERNAL STANDARD AREA AND RT SUMMARY
SW8270C

Laboratory: Empirical Laboratories, LLC
SDG: 1110003
Client: Tetra Tech NUS, Inc. (T010)
Project: Navy Fuel Depot CTO JM46
Sequence: 1J27903
Instrument: MS-BNA1
Calibration: 1257001

Internal Standard	Response	RT	Reference Response	Reference RT	Area %	Area % Limits	RT Diff	RT Diff Limit	Q
FLC-5-MW02-092911 (1110003-14)			Lab File ID: 1000314.D			Analyzed: 10/05/11 17:01			
1,4-Dichlorobenzene-d4	815034	6.705	734656	6.707	111	50 - 200	-0.0020	+/-0.50	
Naphthalene-d8	2143737	8.348	2286793	8.349	94	50 - 200	-0.0010	+/-0.50	
Acenaphthene-d10	980445	10.554	1053029	10.554	93	50 - 200	0.0000	+/-0.50	
Phenanthrene-d10	1324302	12.384	1517490	12.385	87	50 - 200	-0.0010	+/-0.50	
Chrysene-d12	660639	16.473	1034228	16.479	64	50 - 200	-0.0060	+/-0.50	
Perylene-d12	420652	19.191	803876	19.191	52	50 - 200	0.0000	+/-0.50	
Matrix Spike (1J03003-MS1)			Lab File ID: 1000312M.D			Analyzed: 10/05/11 17:35			
1,4-Dichlorobenzene-d4	1004696	6.706	734656	6.707	137	50 - 200	-0.0010	+/-0.50	
Naphthalene-d8	2783578	8.349	2286793	8.349	122	50 - 200	0.0000	+/-0.50	
Acenaphthene-d10	1249543	10.565	1053029	10.554	119	50 - 200	0.0110	+/-0.50	
Phenanthrene-d10	1610662	12.392	1517490	12.385	106	50 - 200	0.0070	+/-0.50	
Chrysene-d12	776320	16.488	1034228	16.479	75	50 - 200	0.0090	+/-0.50	
Perylene-d12	684404	19.189	803876	19.191	85	50 - 200	-0.0020	+/-0.50	
Matrix Spike Dup (1J03003-MSD1)			Lab File ID: 1000312S.D			Analyzed: 10/05/11 18:09			
1,4-Dichlorobenzene-d4	1025401	6.71	734656	6.707	140	50 - 200	0.0030	+/-0.50	
Naphthalene-d8	2953095	8.349	2286793	8.349	129	50 - 200	0.0000	+/-0.50	
Acenaphthene-d10	1168658	10.56	1053029	10.554	111	50 - 200	0.0060	+/-0.50	
Phenanthrene-d10	1427186	12.389	1517490	12.385	94	50 - 200	0.0040	+/-0.50	
Chrysene-d12	699708	16.481	1034228	16.479	68	50 - 200	0.0020	+/-0.50	
Perylene-d12	449787	19.192	803876	19.191	56	50 - 200	0.0010	+/-0.50	

INTERNAL STANDARD AREA AND RT SUMMARY
SW8270C

Laboratory: Empirical Laboratories, LLC
SDG: 1110003
Client: Tetra Tech NUS, Inc. (T010)
Project: Navy Fuel Depot CTO JM46
Sequence: 1J29315
Instrument: MS-BNA3
Calibration: 1236001

Internal Standard	Response	RT	Reference Response	Reference RT	Area %	Area % Limits	RT Diff	RT Diff Limit	Q
Calibration Check (1J29315-CCV1)			Lab File ID: SEQ-CCV1.D			Analyzed: 10/19/11 14:39			
1,4-Dichlorobenzene-d4	551979	6.905	473419	6.389	117	50 - 200	0.5160	+/-0.50	
Naphthalene-d8	1914116	8.529	1697246	8.029	113	50 - 200	0.5000	+/-0.50	
Acenaphthene-d10	1219364	10.762	970176	10.251	126	50 - 200	0.5110	+/-0.50	
Phenanthrene-d10	2021396	12.664	1609148	12.094	126	50 - 200	0.5700	+/-0.50	
Chrysene-d12	1590768	17.092	1722869	16.261	92	50 - 200	0.8310	+/-0.50	
Perylene-d12	1402669	20.036	1702026	19.012	82	50 - 200	1.0240	+/-0.50	
Blank (1J06004-BLK1)			Lab File ID: J06004B1.D			Analyzed: 10/19/11 22:16			
1,4-Dichlorobenzene-d4	958475	6.899	551979	6.905	174	50 - 200	-0.0060	+/-0.50	
Naphthalene-d8	3394377	8.518	1914116	8.529	177	50 - 200	-0.0110	+/-0.50	
Acenaphthene-d10	2140374	10.762	1219364	10.762	176	50 - 200	0.0000	+/-0.50	
Phenanthrene-d10	3223316	12.664	2021396	12.664	159	50 - 200	0.0000	+/-0.50	
Chrysene-d12	2769959	17.103	1590768	17.092	174	50 - 200	0.0110	+/-0.50	
Perylene-d12	2181483	20.068	1402669	20.036	156	50 - 200	0.0320	+/-0.50	
LCS (1J06004-BS1)			Lab File ID: J06004L1.D			Analyzed: 10/19/11 22:51			
1,4-Dichlorobenzene-d4	215229	6.897	551979	6.905	39	50 - 200	-0.0080	+/-0.50	*
Naphthalene-d8	756644	8.521	1914116	8.529	40	50 - 200	-0.0080	+/-0.50	*
Acenaphthene-d10	493680	10.759	1219364	10.762	40	50 - 200	-0.0030	+/-0.50	*
Phenanthrene-d10	892000	12.661	2021396	12.664	44	50 - 200	-0.0030	+/-0.50	*
Chrysene-d12	661564	17.1	1590768	17.092	42	50 - 200	0.0080	+/-0.50	*
Perylene-d12	484795	20.049	1402669	20.036	35	50 - 200	0.0130	+/-0.50	*
FLC-5-MW03-092911 (1110003-09RE1)			Lab File ID: 1000309R.D			Analyzed: 10/19/11 23:27			
1,4-Dichlorobenzene-d4	842309	6.904	551979	6.905	153	50 - 200	-0.0010	+/-0.50	
Naphthalene-d8	2954953	8.528	1914116	8.529	154	50 - 200	-0.0010	+/-0.50	
Acenaphthene-d10	1830947	10.766	1219364	10.762	150	50 - 200	0.0040	+/-0.50	
Phenanthrene-d10	2586222	12.674	2021396	12.664	128	50 - 200	0.0100	+/-0.50	
Chrysene-d12	2425565	17.118	1590768	17.092	152	50 - 200	0.0260	+/-0.50	
Perylene-d12	1992389	20.083	1402669	20.036	142	50 - 200	0.0470	+/-0.50	
FLC-5-MW01-092911 (1110003-12RE1)			Lab File ID: 1000312R.D			Analyzed: 10/20/11 00:02			
1,4-Dichlorobenzene-d4	722599	6.9	551979	6.905	131	50 - 200	-0.0050	+/-0.50	
Naphthalene-d8	2434982	8.524	1914116	8.529	127	50 - 200	-0.0050	+/-0.50	
Acenaphthene-d10	1477717	10.767	1219364	10.762	121	50 - 200	0.0050	+/-0.50	
Phenanthrene-d10	2110807	12.68	2021396	12.664	104	50 - 200	0.0160	+/-0.50	
Chrysene-d12	1860583	17.135	1590768	17.092	117	50 - 200	0.0430	+/-0.50	
Perylene-d12	1679533	20.1	1402669	20.036	120	50 - 200	0.0640	+/-0.50	

INITIAL CALIBRATION DATA

SW8270C

Laboratory:	Empirical Laboratories, LLC	SDG:	1110003
Client:	Tetra Tech NUS, Inc. (T010)	Project:	Navy Fuel Depot CTO JM46
Calibration:	1236001	Instrument:	MS-BNA3
Matrix:	Water	Calibration Dates:	4/29/11 17:45 4/30/11 1:58

Compound	Level 01		Level 02		Level 03		Level 04		Level 05		Level 06	
	ug/mL	RF	ug/mL	RF	ug/mL	RF	ug/mL	RF	ug/mL	RF	ug/mL	RF
Acenaphthene	5	1.200562	10	1.152068	20	1.149698	40	1.01509	50	1.06599	60	1.118857
Acenaphthylene	5	1.910563	10	1.856652	20	1.834023	40	1.577506	50	1.649651	60	1.70743
Acetophenone												
Aniline	5	2.209836	10	2.190225	20	2.226457	40	1.982043	50	1.974255	60	2.113941
Anthracene	5	1.235784	10	1.151973	20	1.14753	40	1.011014	50	1.041804	60	1.073498
Atrazine												
Benzaldehyde												
Benzidine												
Benzo(a)anthracene	5	1.168873	10	1.137636	20	1.197714	40	1.06755	50	1.06548	60	1.128806
Benzo(a)pyrene	5	1.036259	10	1.04972	20	1.089412	40	0.978414	50	1.01499	60	1.072439
Benzo(b)fluoranthene	5	1.078112	10	1.060484	20	1.153792	40	1.054294	50	1.040864	60	1.109427
Benzo(g,h,i)perylene	5	1.006605	10	1.027385	20	1.089672	40	0.9762424	50	0.9956835	60	1.072671
Benzoic acid	5	~~0.1631144~~	10	0.2066539	20	0.2735506	40	0.2647946	50	0.2615824	60	0.2878177
Benzo(k)fluoranthene	5	1.172096	10	1.160073	20	1.151865	40	1.001281	50	1.065575	60	1.126634
Benzyl alcohol	5	0.8617164	10	0.8673336	20	0.9412286	40	0.8081919	50	0.8346687	60	0.8710511
1,1-Biphenyl												
4-Bromophenyl-phenylether	5	0.2469079	10	0.2344633	20	0.2370065	40	0.2123191	50	0.2163411	60	0.2281563
Butylbenzylphthalate	5	0.5079049	10	0.5154742	20	0.5455854	40	0.4854733	50	0.5006547	60	0.5266863
Caprolactam												
Carbazole	5	1.169471	10	1.105756	20	1.083785	40	0.9685984	50	0.99038	60	1.035201
4-Chloro-3-methylphenol	5	0.3271885	10	0.3156005	20	0.3315254	40	0.2968659	50	0.2942781	60	0.3089769
4-Chloroaniline	5	0.4539724	10	0.4453658	20	0.4574864	40	0.3980506	50	0.4035257	60	0.4178277
Bis(2-chloroethoxy)methane	5	0.4611163	10	0.4509887	20	0.460769	40	0.4019166	50	0.4004393	60	0.4227313
Bis(2-chloroethyl)ether	5	1.398969	10	1.365362	20	1.373354	40	1.207943	50	1.239815	60	1.295529
2,2'-Oxybis-1-chloropropane	5	2.104681	10	2.038633	20	2.090222	40	1.80177	50	1.872962	60	1.941936
2-Chloronaphthalene	5	1.200232	10	1.154849	20	1.147531	40	0.9888028	50	1.039189	60	1.079545
2-Chlorophenol	5	1.387384	10	1.360711	20	1.391404	40	1.228533	50	1.258319	60	1.325553
4-Chlorophenyl phenyl ether	5	0.6722867	10	0.629193	20	0.6336897	40	0.5730243	50	0.5907893	60	0.627927
Chrysene	5	1.151174	10	1.091951	20	1.107031	40	0.961258	50	1.014375	60	1.04624
Dibenz(a,h)anthracene	5	0.946806	10	0.9506035	20	1.063357	40	0.9536154	50	0.9816955	60	1.050817
Dibenzofuran	5	1.690636	10	1.625618	20	1.605227	40	1.390488	50	1.466559	60	1.521719

INITIAL CALIBRATION DATA

SW8270C

Laboratory: Empirical Laboratories, LLC

SDG: 1110003

Client: Tetra Tech NUS, Inc. (T010)

Project: Navy Fuel Depot CTO JM46

Calibration: 1236001

Instrument: MS-BNA3

Matrix: Water

Calibration Dates: 4/29/11 17:45 4/30/11 1:58

Compound	Level 01		Level 02		Level 03		Level 04		Level 05		Level 06	
	ug/mL	RF	ug/mL	RF	ug/mL	RF	ug/mL	RF	ug/mL	RF	ug/mL	RF
Di-n-butylphthalate	5	1.291838	10	1.2633	20	1.265434	40	1.093081	50	1.140461	60	1.174317
1,4-Dichlorobenzene	5	1.568025	10	1.509793	20	1.523559	40	1.3491	50	1.379529	60	1.434977
1,3-Dichlorobenzene	5	1.574354	10	1.479601	20	1.519922	40	1.320874	50	1.355106	60	1.4173
1,2-Dichlorobenzene	5	1.465806	10	1.434433	20	1.426883	40	1.255848	50	1.293523	60	1.343582
3,3'-Dichlorobenzidine												
2,6-Dichlorophenol												
2,4-Dichlorophenol	5	0.3169391	10	0.3145317	20	0.322702	40	0.288284	50	0.289789	60	0.3069296
Diethylphthalate	5	1.32063	10	1.261619	20	1.254918	40	1.085716	50	1.152411	60	1.190047
2,4-Dimethylphenol	5	0.384137	10	0.3702076	20	0.3829536	40	0.3415762	50	0.3440076	60	0.3643064
Dimethyl phthalate	5	1.355168	10	1.307581	20	1.304618	40	1.153295	50	1.191277	60	1.235792
4,6-Dinitro-2-methylphenol	5	0.1210854	10	0.1305908	20	0.1540064	40	0.145401	50	0.1462314	60	0.1562021
2,4-Dinitrophenol	5	~~0.1243362~~	10	0.141284	20	0.1848834	40	0.1803434	50	0.1820099	60	0.2006313
2,4-Dinitrotoluene	5	0.3918149	10	0.3987171	20	0.4082577	40	0.3613843	50	0.3748928	60	0.3995306
2,6-Dinitrotoluene	5	0.3173778	10	0.3102615	20	0.3152494	40	0.2767322	50	0.2875841	60	0.301629
Di-n-octylphthalate	5	1.129653	10	1.174165	20	1.286397	40	1.152356	50	1.187184	60	1.252791
1,4-Dioxane												
1,2-Diphenylhydrazine	5	0.9395803	10	0.8941122	20	0.9022896	40	0.7910616	50	0.8117722	60	0.8483397
Bis(2-ethylhexyl)phthalate	5	0.6809116	10	0.696049	20	0.7240521	40	0.6392159	50	0.667684	60	0.6908073
Fluoranthene	5	1.315024	10	1.285888	20	1.299553	40	1.150257	50	1.178525	60	1.237456
Fluorene	5	1.427944	10	1.37776	20	1.393796	40	1.23256	50	1.283604	60	1.352245
2-Fluorobiphenyl	5	1.379787	10	1.332113	20	1.323566	40	1.162246	50	1.222403	60	1.258599
2-Fluorophenol	10	1.214211	20	1.184901	40	1.215741	80	1.07233	100	1.096515	120	1.1412
Hexachlorobenzene	5	0.2642514	10	0.2518966	20	0.252403	40	0.2278087	50	0.2304763	60	0.2443057
Hexachlorobutadiene	5	0.1958535	10	0.1924169	20	0.197703	40	0.1758159	50	0.1782144	60	0.1853061
Hexachlorocyclopentadiene	5	0.3479271	10	0.3459221	20	0.3868304	40	0.357985	50	0.3703015	60	0.3962932
Hexachloroethane	5	0.5846331	10	0.56404	20	0.5729063	40	0.5094484	50	0.5215084	60	0.5497472
Indeno(1,2,3-cd)pyrene	5	0.9329214	10	0.9621318	20	1.063819	40	1.008596	50	0.9848949	60	1.105305
Isophorone	5	0.7896668	10	0.7714455	20	0.7883782	40	0.7034726	50	0.7013249	60	0.7443144
1-Methylnaphthalene	5	0.6441305	10	0.6180163	20	0.6239926	40	0.54737	50	0.5549956	60	0.5772563
2-Methylnaphthalene	5	0.6435821	10	0.6278223	20	0.6404808	40	0.5564928	50	0.5627111	60	0.5897258
2-Methylphenol	5	1.260273	10	1.251825	20	1.277152	40	1.131961	50	1.167884	60	1.218514

INITIAL CALIBRATION DATA

SW8270C

Laboratory:	Empirical Laboratories, LLC	SDG:	1110003
Client:	Tetra Tech NUS, Inc. (T010)	Project:	Navy Fuel Depot CTO JM46
Calibration:	1236001	Instrument:	MS-BNA3
Matrix:	Water	Calibration Dates:	4/29/11 17:45 4/30/11 1:58

Compound	Level 01		Level 02		Level 03		Level 04		Level 05		Level 06	
	ug/mL	RF	ug/mL	RF	ug/mL	RF	ug/mL	RF	ug/mL	RF	ug/mL	RF
3-Methylphenol	5	1.331706	10	1.290792	20	1.346713	40	1.190219	50	1.206537	60	1.281773
4-Methylphenol	5	1.331706	10	1.290792	20	1.346713	40	1.190219	50	1.206537	60	1.281773
3-Methylphenol/4-Methylphenol	5	1.331706	10	1.290792	20	1.346713	40	1.190219	50	1.206537	60	1.281773
Naphthalene	5	1.122107	10	1.071727	20	1.07583	40	0.9265709	50	0.94301	60	0.973957
4-Nitroaniline	5	0.3430184	10	0.3360742	20	0.3479662	40	0.3116399	50	0.3255681	60	0.3397148
3-Nitroaniline	5	0.3309603	10	0.3378271	20	0.3400208	40	0.3008812	50	0.3121726	60	0.3258531
2-Nitroaniline	5	0.3665605	10	0.3700264	20	0.3853216	40	0.3493317	50	0.3598085	60	0.3803924
Nitrobenzene	5	0.4362066	10	0.4207695	20	0.4376126	40	0.3908491	50	0.3913832	60	0.4109914
Nitrobenzene-d5	5	0.4225447	10	0.4166832	20	0.4326009	40	0.3896114	50	0.3855663	60	0.4106561
4-Nitrophenol	5	0.2297189	10	0.2494493	20	0.2828897	40	0.265577	50	0.2743758	60	0.2955233
2-Nitrophenol	5	0.1962052	10	0.1951651	20	0.2085142	40	0.1870232	50	0.1859271	60	0.198001
N-Nitrosodimethylamine	5	0.7020853	10	0.6974494	20	0.7179495	40	0.6502823	50	0.6591354	60	0.6915263
N-Nitrosodiphenylamine	5	0.7447467	10	0.702659	20	0.7022588	40	0.6229357	50	0.6399909	60	0.6681725
N-Nitroso-di-n-propylamine	5	1.084962	10	1.067234	20	1.095671	40	0.964017	50	0.9910933	60	1.042096
Pentachlorophenol	5	0.1466429	10	0.1458785	20	0.1722191	40	0.1555052	50	0.1599187	60	0.1729038
Phenanthrene	5	1.199467	10	1.144802	20	1.134825	40	0.990132	50	1.022705	60	1.064225
Phenol	5	1.763803	10	1.739868	20	1.780402	40	1.57708	50	1.605923	60	1.698477
Phenol-d6	10	1.662802	20	1.633678	40	1.679836	80	1.464852	100	1.513167	120	1.571116
Pyrene	5	1.262746	10	1.222088	20	1.241454	40	1.08272	50	1.115517	60	1.160478
Pyridine	5	1.508911	10	1.473681	20	1.566124	40	1.419584	50	1.429577	60	1.495931
Terphenyl-d14	5	0.7819621	10	0.7712491	20	0.7866966	40	0.6961461	50	0.7143354	60	0.7532491
1,2,4,5-Tetrachlorobenzene												
2,3,4,6-Tetrachlorophenol	5	0.3424646	10	0.3390161	20	0.3503973	40	0.3066535	50	0.3206907	60	0.3389603
2,4,6-Tribromophenol	10	0.1109002	20	0.1068303	40	0.1114174	80	0.1032482	100	0.1035542	120	0.1120766
1,2,4-Trichlorobenzene	5	0.3746386	10	0.3584824	20	0.362458	40	0.320971	50	0.3209222	60	0.3385883
2,4,6-Trichlorophenol	5	0.3830191	10	0.3817827	20	0.3990224	40	0.3592382	50	0.3644658	60	0.395434
2,4,5-Trichlorophenol	5	0.4211802	10	0.4132208	20	0.4400895	40	0.3862672	50	0.4032646	60	0.4189466

INITIAL CALIBRATION DATA (Continued)

SW8270C

Laboratory:	Empirical Laboratories, LLC	SDG:	1110003
Client:	Tetra Tech NUS, Inc. (T010)	Project:	Navy Fuel Depot CTO JM46
Calibration:	1236001	Instrument:	MS-BNA3
Matrix:	Water	Calibration Dates:	4/29/11 17:45 4/30/11 1:58

Compound	Level 07		Level 08		Level 09		Level 10		Level 11		Level 12	
	ug/mL	RF	ug/mL	RF	ug/mL	RF	ug/mL	RF	ug/mL	RF	ug/mL	RF
Acenaphthene	80	1.070429	100	1.110154								
Acenaphthylene	80	1.618735	100	1.647107								
Acetophenone					5	1.880226	10	1.843684	20	1.726817	40	1.816985
Aniline	80	2.054588	100	2.043831								
Anthracene	80	1.035715	100	1.04405								
Atrazine					5	0.2382708	10	0.2429518	20	0.2278142	40	0.233576
Benzaldehyde					5	1.135886	10	1.104348	20	1.01959	40	1.026186
Benzidine					5	0.6324675	10	0.6598514	20	0.6461027	40	0.6640134
Benzo(a)anthracene	80	1.085495	100	1.102825								
Benzo(a)pyrene	80	1.043055	100	1.082603								
Benzo(b)fluoranthene	80	1.094292	100	1.158321								
Benzo(g,h,i)perylene	80	1.029641	100	1.06721								
Benzoic acid	80	0.2818719	100	0.2993054								
Benzo(k)fluoranthene	80	1.086366	100	1.097945								
Benzyl alcohol	80	0.8753887	100	0.8745454								
1,1-Biphenyl					5	1.527091	10	1.51435	20	1.38327	40	1.425931
4-Bromophenyl-phenylether	80	0.2212953	100	0.2313328								
Butylbenzylphthalate	80	0.506124	100	0.5159518								
Caprolactam					5	9.990739E-02	10	0.1104282	20	0.1119224	40	0.1178965
Carbazole	80	0.9981409	100	1.003717								
4-Chloro-3-methylphenol	80	0.3086181	100	0.3077652								
4-Chloroaniline	80	0.4023406	100	0.4016907								
Bis(2-chloroethoxy)methane	80	0.4085309	100	0.4094061								
Bis(2-chloroethyl)ether	80	1.257639	100	1.244128								
2,2'-Oxybis-1-chloropropane	80	1.890831	100	1.835877								
2-Chloronaphthalene	80	1.026935	100	1.065042								
2-Chlorophenol	80	1.285464	100	1.282664								
4-Chlorophenyl phenyl ether	80	0.6214753	100	0.6384061								
Chrysene	80	0.9983805	100	1.012507								
Dibenz(a,h)anthracene	80	1.023862	100	1.065065								
Dibenzofuran	80	1.474077	100	1.5066								

INITIAL CALIBRATION DATA (Continued)

SW8270C

Laboratory:	Empirical Laboratories, LLC	SDG:	1110003
Client:	Tetra Tech NUS, Inc. (T010)	Project:	Navy Fuel Depot CTO JM46
Calibration:	1236001	Instrument:	MS-BNA3
Matrix:	Water	Calibration Dates:	4/29/11 17:45 4/30/11 1:58

Compound	Level 07		Level 08		Level 09		Level 10		Level 11		Level 12	
	ug/mL	RF	ug/mL	RF	ug/mL	RF	ug/mL	RF	ug/mL	RF	ug/mL	RF
Di-n-butylphthalate	80	1.115859	100	1.111806								
1,4-Dichlorobenzene	80	1.392333	100	1.402334								
1,3-Dichlorobenzene	80	1.374133	100	1.380718								
1,2-Dichlorobenzene	80	1.303595	100	1.306451								
3,3'-Dichlorobenzidine					5	0.3885638	10	0.4002254	20	0.3955931	40	0.4201307
2,6-Dichlorophenol					5	0.2969206	10	0.3013649	20	0.291966	40	0.3082091
2,4-Dichlorophenol	80	0.2966112	100	0.3015958								
Diethylphthalate	80	1.134853	100	1.157654								
2,4-Dimethylphenol	80	0.3587442	100	0.3633549								
Dimethyl phthalate	80	1.185465	100	1.222328								
4,6-Dinitro-2-methylphenol	80	0.1522534	100	0.1575479								
2,4-Dinitrophenol	80	0.2006293	100	0.2082968								
2,4-Dinitrotoluene	80	0.395113	100	0.4141599								
2,6-Dinitrotoluene	80	0.2878134	100	0.2968419								
Di-n-octylphthalate	80	1.208455	100	1.243757								
1,4-Dioxane					5	0.562493	10	0.5588019	20	0.5235447	40	0.5233689
1,2-Diphenylhydrazine	80	0.801643	100	0.8168839								
Bis(2-ethylhexyl)phthalate	80	0.6617697	100	0.6739699								
Fluoranthene	80	1.192481	100	1.211512								
Fluorene	80	1.305665	100	1.326577								
2-Fluorobiphenyl	80	1.204291	100	1.24033								
2-Fluorophenol	160	1.101251	200	1.111221								
Hexachlorobenzene	80	0.2366873	100	0.2470671								
Hexachlorobutadiene	80	0.1811536	100	0.1883923								
Hexachlorocyclopentadiene	80	0.3839658	100	0.4105745								
Hexachloroethane	80	0.5306981	100	0.5387239								
Indeno(1,2,3-cd)pyrene	80	1.075263	100	1.17113								
Isophorone	80	0.7247781	100	0.73083								
1-Methylnaphthalene	80	0.5632671	100	0.5691244								
2-Methylnaphthalene	80	0.577124	100	0.5814146								
2-Methylphenol	80	1.186174	100	1.175301								

INITIAL CALIBRATION DATA (Continued)

SW8270C

Laboratory:	Empirical Laboratories, LLC	SDG:	1110003
Client:	Tetra Tech NUS, Inc. (T010)	Project:	Navy Fuel Depot CTO JM46
Calibration:	1236001	Instrument:	MS-BNA3
Matrix:	Water	Calibration Dates:	4/29/11 17:45 4/30/11 1:58

Compound	Level 07		Level 08		Level 09		Level 10		Level 11		Level 12	
	ug/mL	RF	ug/mL	RF	ug/mL	RF	ug/mL	RF	ug/mL	RF	ug/mL	RF
3-Methylphenol	80	1.25282	100	1.246708								
4-Methylphenol	80	1.25282	100	1.246708								
3-Methylphenol/4-Methylphenol	80	1.25282	100	1.246708								
Naphthalene	80	0.929288	100	0.9247047								
4-Nitroaniline	80	0.3041842	100	0.3101441								
3-Nitroaniline	80	0.3160066	100	0.3209305								
2-Nitroaniline	80	0.3679269	100	0.3808217								
Nitrobenzene	80	0.3959025	100	0.4026269								
Nitrobenzene-d5	80	0.3956873	100	0.4070452								
4-Nitrophenol	80	0.2875644	100	0.2922439								
2-Nitrophenol	80	0.1898848	100	0.1924385								
N-Nitrosodimethylamine	80	0.6770774	100	0.6814722								
N-Nitrosodiphenylamine	80	0.6421856	100	0.6601622								
N-Nitroso-di-n-propylamine	80	1.01735	100	1.009302								
Pentachlorophenol	80	0.1689527	100	0.1764541								
Phenanthrene	80	1.02087	100	1.029906								
Phenol	80	1.657873	100	1.678155								
Phenol-d6	160	1.528019	200	1.530415								
Pyrene	80	1.10517	100	1.119951								
Pyridine	80	1.469181	100	1.49947								
Terphenyl-d14	80	0.7229046	100	0.7432138								
1,2,4,5-Tetrachlorobenzene					5	0.3479122	10	0.3558868	20	0.3284806	40	0.3388667
2,3,4,6-Tetrachlorophenol	80	0.3293547	100	0.3450346								
2,4,6-Tribromophenol	160	0.1116489	200	0.1192761								
1,2,4-Trichlorobenzene	80	0.3260549	100	0.3352601								
2,4,6-Trichlorophenol	80	0.3790248	100	0.3940451								
2,4,5-Trichlorophenol	80	0.4068398	100	0.4243071								

INITIAL CALIBRATION DATA (Continued)

SW8270C

Laboratory:	Empirical Laboratories, LLC	SDG:	1110003
Client:	Tetra Tech NUS, Inc. (T010)	Project:	Navy Fuel Depot CTO JM46
Calibration:	1236001	Instrument:	MS-BNA3
Matrix:	Water	Calibration Dates:	4/29/11 17:45 4/30/11 1:58

Compound	Level 13		Level 14		Level 15		Level 16		Level 17		Level 18	
	ug/mL	RF	ug/mL	RF	ug/mL	RF	ug/mL	RF	ug/mL	RF	ug/mL	RF
Acenaphthene												
Acenaphthylene												
Acetophenone	50	1.789068	60	1.770735	80	1.812049	100	1.776326				
Aniline												
Anthracene												
Atrazine	50	0.2359177	60	0.2321698	80	0.234271	100	0.2307739				
Benzaldehyde	50	0.9817363	60	0.9635899	80	0.9526789	100	0.8968237				
Benzidine	50	0.6420753	60	0.6442256	80	0.6312912	100	0.6103486				
Benzo(a)anthracene												
Benzo(a)pyrene												
Benzo(b)fluoranthene												
Benzo(g,h,i)perylene												
Benzoic acid												
Benzo(k)fluoranthene												
Benzyl alcohol												
1,1-Biphenyl	50	1.43195	60	1.402475	80	1.465295	100	1.405265				
4-Bromophenyl-phenylether												
Butylbenzylphthalate												
Caprolactam	50	0.1144193	60	0.1176165	80	0.1139048	100	0.1166416				
Carbazole												
4-Chloro-3-methylphenol												
4-Chloroaniline												
Bis(2-chloroethoxy)methane												
Bis(2-chloroethyl)ether												
2,2'-Oxybis-1-chloropropane												
2-Chloronaphthalene												
2-Chlorophenol												
4-Chlorophenyl phenyl ether												
Chrysene												
Dibenz(a,h)anthracene												
Dibenzofuran												

INITIAL CALIBRATION DATA (Continued)

SW8270C

Laboratory:	Empirical Laboratories, LLC	SDG:	1110003
Client:	Tetra Tech NUS, Inc. (T010)	Project:	Navy Fuel Depot CTO JM46
Calibration:	1236001	Instrument:	MS-BNA3
Matrix:	Water	Calibration Dates:	4/29/11 17:45 4/30/11 1:58

Compound	Level 13		Level 14		Level 15		Level 16		Level 17		Level 18	
	ug/mL	RF	ug/mL	RF	ug/mL	RF	ug/mL	RF	ug/mL	RF	ug/mL	RF
Di-n-butylphthalate												
1,4-Dichlorobenzene												
1,3-Dichlorobenzene												
1,2-Dichlorobenzene												
3,3'-Dichlorobenzidine	50	0.412504	60	0.4101254	80	0.4135013	100	0.4131389				
2,6-Dichlorophenol	50	0.2904992	60	0.3021215	80	0.2987647	100	0.297978				
2,4-Dichlorophenol												
Diethylphthalate												
2,4-Dimethylphenol												
Dimethyl phthalate												
4,6-Dinitro-2-methylphenol												
2,4-Dinitrophenol												
2,4-Dinitrotoluene												
2,6-Dinitrotoluene												
Di-n-octylphthalate												
1,4-Dioxane	50	0.5272408	60	0.5401001	80	0.5695672	100	0.5195493				
1,2-Diphenylhydrazine												
Bis(2-ethylhexyl)phthalate												
Fluoranthene												
Fluorene												
2-Fluorobiphenyl												
2-Fluorophenol												
Hexachlorobenzene												
Hexachlorobutadiene												
Hexachlorocyclopentadiene												
Hexachloroethane												
Indeno(1,2,3-cd)pyrene												
Isophorone												
1-Methylnaphthalene												
2-Methylnaphthalene												
2-Methylphenol												

INITIAL CALIBRATION DATA (Continued)

SW8270C

Laboratory:	Empirical Laboratories, LLC	SDG:	1110003
Client:	Tetra Tech NUS, Inc. (T010)	Project:	Navy Fuel Depot CTO JM46
Calibration:	1236001	Instrument:	MS-BNA3
Matrix:	Water	Calibration Dates:	4/29/11 17:45 4/30/11 1:58

Compound	Level 13		Level 14		Level 15		Level 16		Level 17		Level 18	
	ug/mL	RF	ug/mL	RF	ug/mL	RF	ug/mL	RF	ug/mL	RF	ug/mL	RF
3-Methylphenol												
4-Methylphenol												
3-Methylphenol/4-Methylphenol												
Naphthalene												
4-Nitroaniline												
3-Nitroaniline												
2-Nitroaniline												
Nitrobenzene												
Nitrobenzene-d5												
4-Nitrophenol												
2-Nitrophenol												
N-Nitrosodimethylamine												
N-Nitrosodiphenylamine												
N-Nitroso-di-n-propylamine												
Pentachlorophenol												
Phenanthrene												
Phenol												
Phenol-d6												
Pyrene												
Pyridine												
Terphenyl-d14												
1,2,4,5-Tetrachlorobenzene	50	0.3278198	60	0.3307788	80	0.3290598	100	0.3234578				
2,3,4,6-Tetrachlorophenol												
2,4,6-Tribromophenol												
1,2,4-Trichlorobenzene												
2,4,6-Trichlorophenol												
2,4,5-Trichlorophenol												

INITIAL CALIBRATION DATA (Continued)

SW8270C

Laboratory:	Empirical Laboratories, LLC	SDG:	1110003
Client:	Tetra Tech NUS, Inc. (T010)	Project:	Navy Fuel Depot CTO JM46
Calibration:	1236001	Instrument:	MS-BNA3
Matrix:	Water	Calibration Dates:	4/29/11 17:45 4/30/11 1:58

Compound	Mean RF	RF RSD	Mean RT	RT RSD	Linear r	Quad COD	LIMIT	Q
Acenaphthene	1.110356	5.288297	10.29162	9.343479E-02			CCC (30)	
Acenaphthylene	1.725208	7.224824	10.072	8.837624E-02			15	
Acetophenone	1.801986	2.623006	6.9	0.0512758			15	
Aniline	2.099397	4.808313	5.967	0.2001409			15	
Anthracene	1.092671	7.109126	12.18775	7.884876E-02			15	
Atrazine	0.2344682	1.991174	11.74575	4.943708E-02			15	
Benzaldehyde	1.010105	7.862294	5.825625	7.236361E-02			15	
Benzidine	0.641297	2.654446	13.97425	4.038824E-02			15	
Benzo(a)anthracene	1.119297	4.274256	16.23525	0.0816524			15	
Benzo(a)pyrene	1.045862	3.535372	18.9035	0.1146499			CCC (30)	
Benzo(b)fluoranthene	1.093698	4.048684	18.29662	0.1113231			15	
Benzo(g,h,i)perylene	1.033139	3.890508	21.8865	0.2082456			15	
Benzoic acid	0.2679395	11.20773	7.781571	0.6947302			15	
Benzo(k)fluoranthene	1.107729	5.157595	18.3555	0.1297645			15	
Benzyl alcohol	0.8667655	4.400766	6.566875	0.2166256			15	
1,1-Biphenyl	1.444453	3.67168	9.52625	3.810599E-02			15	
4-Bromophenyl-phenylether	0.2284778	5.008035	11.5395	7.035777E-02			15	
Butylbenzylphthalate	0.5129818	3.492853	15.25225	6.767508E-02			15	
Caprolactam	0.1128421	5.193073	8.55075	0.1563915			15	
Carbazole	1.044381	6.624112	12.39137	8.639464E-02			15	
4-Chloro-3-methylphenol	0.3113523	4.210752	8.736125	0.1038012			CCC (30)	
4-Chloroaniline	0.4225325	6.038149	8.122625	0.1175516			15	
Bis(2-chloroethoxy)methane	0.4269873	6.185734	7.725875	0.1308561			15	
Bis(2-chloroethyl)ether	1.297842	5.559542	6.0525	0.1902114			15	
2,2'-Oxybis-1-chloropropane	1.947114	6.010514	6.7435	0.131801			15	
2-Chloronaphthalene	1.087766	6.697976	9.5495	8.079271E-02			15	
2-Chlorophenol	1.315004	4.624341	6.11375	0.1645746			15	
4-Chlorophenyl phenyl ether	0.6233489	4.843106	10.93262	7.540016E-02			15	
Chrysene	1.047865	6.082994	16.30862	0.1078386			15	
Dibenz(a,h)anthracene	1.004478	5.185987	21.30563	0.1755433			15	
Dibenzofuran	1.535116	6.402871	10.50525	9.099792E-02			15	
Di-n-butylphthalate	1.182012	6.755142	12.86425	6.288496E-02			15	

INITIAL CALIBRATION DATA (Continued)

SW8270C

Laboratory:	Empirical Laboratories, LLC	SDG:	1110003
Client:	Tetra Tech NUS, Inc. (T010)	Project:	Navy Fuel Depot CTO JM46
Calibration:	1236001	Instrument:	MS-BNA3
Matrix:	Water	Calibration Dates:	4/29/11 17:45 4/30/11 1:58

Compound	Mean RF	RF RSD	Mean RT	RT RSD	Linear r	Quad COD	LIMIT	Q
1,4-Dichlorobenzene	1.444956	5.467	6.410625	0.1248613			CCC (30)	
1,3-Dichlorobenzene	1.427751	6.184247	6.312875	0.105711			15	
1,2-Dichlorobenzene	1.353765	5.754592	6.6015	9.658535E-02			15	
3,3'-Dichlorobenzidine	0.4067228	2.641037	16.20337	3.259867E-02			15	
2,6-Dichlorophenol	0.298478	1.900014	8.1265	4.341722E-02			15	
2,4-Dichlorophenol	0.3046728	4.192991	7.844125	0.1362117			CCC (30)	
Diethylphthalate	1.194731	6.529918	10.80025	0.1137489			15	
2,4-Dimethylphenol	0.3636609	4.326679	7.594375	0.1603634			15	
Dimethyl phthalate	1.24444	5.685732	9.930375	0.1671862			15	
4,6-Dinitro-2-methylphenol	0.1454148	8.990807	11.00038	0.1679983			15	
2,4-Dinitrophenol	0.1854397	12.00123	10.33129	0.1179144			SPCC (0.05)	
2,4-Dinitrotoluene	0.3929838	4.396053	10.49525	0.1523157			15	
2,6-Dinitrotoluene	0.2991862	4.878435	9.996875	0.1438581			15	
Di-n-octylphthalate	1.204345	4.453443	17.67838	7.317373E-02			CCC (30)	
1,4-Dioxane	0.5405832	3.738713	2.966125	0.8455495			15	
1,2-Diphenylhydrazine	0.8507103	6.449692	11.13088	9.327424E-02			15	
Bis(2-ethylhexyl)phthalate	0.6793074	3.73062	16.37963	6.115675E-02			15	
Fluoranthene	1.233837	4.928638	13.7625	9.359244E-02			CCC (30)	
Fluorene	1.337519	4.748592	10.932	9.604146E-02			15	
2-Fluorobiphenyl	1.265417	5.80845	9.402	7.848969E-02			15	
2-Fluorophenol	1.142171	4.910943	4.735625	0.2045971			15	
Hexachlorobenzene	0.244362	5.012161	11.60775	8.043427E-02			15	
Hexachlorobutadiene	0.186857	4.354208	8.211375	6.390464E-02			CCC (30)	
Hexachlorocyclopentadiene	0.3749749	6.237497	9.13225	6.029786E-02			SPCC (0.05)	
Hexachloroethane	0.5464632	4.780522	7.037625	8.255052E-02			15	
Indeno(1,2,3-cd)pyrene	1.038008	7.706288	21.23487	0.170273			15	
Isophorone	0.7442763	4.76768	7.447	0.2320769			15	
1-Methylnaphthalene	0.5872691	6.161856	9.060125	8.180225E-02			15	
2-Methylnaphthalene	0.5974192	5.83851	8.935875	7.367129E-02			15	
2-Methylphenol	1.208635	4.251053	6.698875	0.1714391			15	
3-Methylphenol	1.268409	4.36657	6.9085	0.2477057			15	
4-Methylphenol	1.268409	4.36657	6.9085	0.2477057			15	

INITIAL CALIBRATION DATA (Continued)

SW8270C

Laboratory:	Empirical Laboratories, LLC	SDG:	1110003
Client:	Tetra Tech NUS, Inc. (T010)	Project:	Navy Fuel Depot CTO JM46
Calibration:	1236001	Instrument:	MS-BNA3
Matrix:	Water	Calibration Dates:	4/29/11 17:45 4/30/11 1:58

Compound	Mean RF	RF RSD	Mean RT	RT RSD	Linear r	Quad COD	LIMIT	Q
3-Methylphenol/4-Methylphenol	1.268409	4.36657	6.9085	0.2477057			15	
Naphthalene	0.9958993	8.109498	8.05525	8.805836E-02			15	
4-Nitroaniline	0.3272887	5.141507	10.96663	0.2298598			15	
3-Nitroaniline	0.3230815	4.120651	10.20188	0.1592925			15	
2-Nitroaniline	0.3700237	3.241441	9.68	0.1125277			15	
Nitrobenzene	0.4107927	4.625764	7.1275	0.1614281			15	
Nitrobenzene-d5	0.4075494	4.033426	7.1015	0.150497			15	
4-Nitrophenol	0.2721678	8.409371	10.40112	0.1699928			SPCC (0.05)	
2-Nitrophenol	0.1941449	3.724196	7.534125	0.1204379			CCC (30)	
N-Nitrosodimethylamine	0.6846222	3.277093	3.268625	0.4561992			15	
N-Nitrosodiphenylamine	0.6728889	6.054145	11.08487	0.122818			CCC (30)	
N-Nitroso-di-n-propylamine	1.033966	4.50625	6.924	0.341437			SPCC (0.05)	
Pentachlorophenol	0.1623094	7.444734	11.84938	7.159059E-02			CCC (30)	
Phenanthrene	1.075866	6.933794	12.12375	8.032742E-02			15	
Phenol	1.687698	4.315264	5.922875	0.2981099			CCC (30)	
Phenol-d6	1.572986	4.940559	5.90625	0.2878739			15	
Pyrene	1.163766	5.943883	14.11538	0.0929633			15	
Pyridine	1.482807	3.139741	3.313875	0.4229696			15	
Terphenyl-d14	0.7462196	4.435465	14.37887	7.151091E-02			15	
1,2,4,5-Tetrachlorobenzene	0.3352828	3.377528	9.142125	3.575815E-02			15	
2,3,4,6-Tetrachlorophenol	0.3340715	4.320893	10.65287	9.534642E-02			15	
2,4,6-Tribromophenol	0.109869	4.778459	11.23037	0.1037614			15	
1,2,4-Trichlorobenzene	0.3421719	6.002622	7.953	8.322603E-02			15	
2,4,6-Trichlorophenol	0.382004	3.768651	9.2885	6.754752E-02			CCC (30)	
2,4,5-Trichlorophenol	0.4142645	3.869354	9.329125	9.747652E-02			15	

INITIAL CALIBRATION DATA

SW8270C

Laboratory:	Empirical Laboratories, LLC	SDG:	1110003
Client:	Tetra Tech NUS, Inc. (T010)	Project:	Navy Fuel Depot CTO JM46
Calibration:	1257001	Instrument:	MS-BNA1
Matrix:	Water	Calibration Dates:	9/10/11 16:55 9/10/11 21:27

Compound	Level 01		Level 02		Level 03		Level 04		Level 05		Level 06	
	ug/mL	RF	ug/mL	RF	ug/mL	RF	ug/mL	RF	ug/mL	RF	ug/mL	RF
3,3'-Dichlorobenzidine	5	0.2765937	10	0.3591035	20	0.3681972	40	0.3690805	50	0.4005189	60	0.4010792
Acenaphthene	5	1.253522	10	1.206302	20	1.25895	40	1.291044	50	1.16693	60	1.190615
Acenaphthylene	5	1.723144	10	2.041578	20	1.845324	40	1.783262	50	1.741059	60	1.844693
Acetophenone	5	1.758022	10	1.915831	20	1.638468	40	1.415585	50	1.625036	60	1.46674
Aniline	5	1.724911	10	1.957254	20	1.576385	40	1.6606	50	1.749156	60	1.663546
Anthracene	5	1.033788	10	1.316707	20	1.094874	40	1.042717	50	0.982979	60	1.120186
Atrazine	5	0.202838	10	0.2248304	20	0.2210561	40	0.1976665	50	0.1837201	60	0.1797618
Benzaldehyde	5	0.8523933	10	0.9935928	20	0.7316149	40	0.8012218	50	0.8193694	60	0.6463485
Benzidine	5	0.4238351	10	0.4859271	20	0.5394329	40	0.5857219	50	0.5117475	60	0.4990704
Benzo(a)anthracene	5	1.04275	10	1.255395	20	1.20398	40	1.213164	50	1.2495	60	1.242613
Benzo(a)pyrene	5	0.9179211	10	1.046195	20	1.160181	40	1.120785	50	1.095661	60	1.088656
Benzo(b)fluoranthene	5	1.029667	10	1.127974	20	1.20282	40	1.288732	50	1.22798	60	1.188228
Benzo(g,h,i)perylene	5	0.6647747	10	0.8275675	20	0.8268573	40	0.8846595	50	0.8540973	60	0.8584052
Benzoic acid	5	0.1610307	10	0.1848476	20	0.2023344	40	0.2537321	50	0.2553058	60	0.2584887
Benzo(k)fluoranthene	5	1.094325	10	1.194478	20	1.196844	40	1.251737	50	1.238451	60	1.147959
Benzyl alcohol	5	0.7593303	10	0.8629323	20	0.785341	40	0.7511491	50	0.8056209	60	0.8145736
1,1-Biphenyl	5	1.520155	10	1.603576	20	1.648798	40	1.574161	50	1.340824	60	1.343569
4-Bromophenyl-phenylether	5	0.2081429	10	0.2174275	20	0.2389046	40	0.2095385	50	0.2131482	60	0.2355122
Butylbenzylphthalate	5	0.8328724	10	0.9208578	20	0.9806272	40	1.020188	50	0.9442628	60	0.980521
Caprolactam	5	0.1054917	10	0.1162418	20	0.1007897	40	0.1088241	50	0.1113944	60	0.1154222
Carbazole	5	1.030378	10	1.127423	20	1.058225	40	0.9971308	50	1.025539	60	1.133249
4-Chloro-3-methylphenol	5	0.2576136	10	0.2604081	20	0.2455231	40	0.2610659	50	0.2715312	60	0.2567078
4-Chloroaniline	5	0.5085599	10	0.5104554	20	0.4299194	40	0.4414935	50	0.4214911	60	0.3825808
Bis(2-chloroethoxy)methane	5	0.458296	10	0.4190845	20	0.3724352	40	0.4234906	50	0.3769218	60	0.3951356
Bis(2-chloroethyl)ether	5	1.266455	10	1.437888	20	1.210565	40	1.253286	50	1.298796	60	1.278871
2,2'-Oxybis-1-chloropropane	5	1.8112	10	2.049536	20	1.755029	40	1.801784	50	1.90027	60	1.722658
2-Chloronaphthalene	5	1.327396	10	1.419998	20	1.244863	40	1.274397	50	1.105185	60	1.215939
2-Chlorophenol	5	1.515091	10	1.744406	20	1.455611	40	1.422791	50	1.556357	60	1.421963
4-Chlorophenyl phenyl ether	5	0.4844961	10	0.578091	20	0.5061073	40	0.5563181	50	0.4630671	60	0.4966114
Chrysene	5	1.157751	10	1.219709	20	1.1636	40	1.122197	50	1.125595	60	1.216993
Dibenz(a,h)anthracene	5	0.6638438	10	0.7120223	20	0.728146	40	0.8478964	50	0.8773235	60	0.7911652

INITIAL CALIBRATION DATA

SW8270C

Laboratory: Empirical Laboratories, LLC

SDG: 1110003

Client: Tetra Tech NUS, Inc. (T010)

Project: Navy Fuel Depot CTO JM46

Calibration: 1257001

Instrument: MS-BNA1

Matrix: Water

Calibration Dates: 9/10/11 16:55 9/10/11 21:27

Compound	Level 01		Level 02		Level 03		Level 04		Level 05		Level 06	
	ug/mL	RF	ug/mL	RF	ug/mL	RF	ug/mL	RF	ug/mL	RF	ug/mL	RF
Dibenzofuran	5	1.654562	10	1.613972	20	1.5209	40	1.620809	50	1.396493	60	1.555416
Di-n-butylphthalate	5	1.437169	10	1.576609	20	1.632225	40	1.562995	50	1.534256	60	1.65395
1,4-Dichlorobenzene	5	1.668556	10	1.73016	20	1.543847	40	1.604528	50	1.65125	60	1.579411
1,3-Dichlorobenzene	5	1.687683	10	1.890514	20	1.509731	40	1.548552	50	1.690746	60	1.576822
1,2-Dichlorobenzene	5	1.610965	10	1.727455	20	1.621033	40	1.57031	50	1.47446	60	1.570651
2,6-Dichlorophenol	5	0.3305166	10	0.3255433	20	0.2854949	40	0.3076464	50	0.3167549	60	0.2831726
2,4-Dichlorophenol	5	0.3575056	10	0.3465531	20	0.3036057	40	0.3174635	50	0.2903621	60	0.302912
Diethylphthalate	5	1.442949	10	1.510012	20	1.460975	40	1.514318	50	1.49234	60	1.443097
2,4-Dimethylphenol	5	0.3477561	10	0.3258219	20	0.3003753	40	0.317081	50	0.344486	60	0.2951597
Dimethyl phthalate	5	1.491187	10	1.527115	20	1.43968	40	1.406937	50	1.31959	60	1.360078
4,6-Dinitro-2-methylphenol	5	0.1076884	10	0.1474486	20	0.1721278	40	0.1997163	50	0.1869435	60	0.2040181
2,4-Dinitrophenol	5	0.1108904	10	0.1424831	20	0.1719545	40	0.227058	50	0.2153383	60	0.2488056
2,4-Dinitrotoluene	5	0.4395194	10	0.4477005	20	0.4454295	40	0.4794931	50	0.4496988	60	0.474272
2,6-Dinitrotoluene	5	0.3892686	10	0.3572156	20	0.3860348	40	0.3581748	50	0.3748284	60	0.363136
Di-n-octylphthalate	5	1.866264	10	2.01372	20	2.257873	40	2.829522	50	2.529843	60	2.548569
1,4-Dioxane	5	0.577055	10	0.5535138	20	0.5472736	40	0.521683	50	0.4935159	60	~~0.3392503~~
1,2-Diphenylhydrazine	5	0.7029666	10	0.7401211	20	0.7380437	40	0.741858	50	0.7460217	60	0.8366615
Bis(2-ethylhexyl)phthalate	5	1.101055	10	1.239924	20	1.352049	40	1.430737	50	1.338864	60	1.483097
Fluoranthene	5	1.043038	10	1.160236	20	1.040213	40	0.9926983	50	0.9664456	60	1.096828
Fluorene	5	1.094411	10	1.393145	20	1.187549	40	1.276953	50	1.0475	60	1.133402
2-Fluorobiphenyl	5	1.473991	10	1.345399	20	1.423783	40	1.3053	50	1.209567	60	1.297022
2-Fluorophenol	5	1.482346	10	1.561194	20	1.320236	40	1.391469	50	1.431322	60	1.37364
Hexachlorobenzene	5	0.2527021	10	0.2667261	20	0.2682445	40	0.247591	50	0.2530574	60	0.2724392
Hexachlorobutadiene	5	0.2149597	10	0.2024588	20	0.1857575	40	0.2048881	50	0.1932247	60	0.1834199
Hexachlorocyclopentadiene	5	0.294644	10	0.3517376	20	0.3477564	40	0.3719814	50	0.3307146	60	0.3827502
Hexachloroethane	5	0.7523456	10	0.7929738	20	0.6777919	40	0.7004261	50	0.7588626	60	0.7292762
Indeno(1,2,3-cd)pyrene	5	0.5989416	10	0.7736439	20	0.7714515	40	0.8414679	50	0.8501015	60	0.830473
Isophorone	5	0.6156039	10	0.5933154	20	0.5152563	40	0.5405376	50	0.571318	60	0.6022496
1-Methylnaphthalene	5	0.5081641	10	0.5125537	20	0.4388774	40	0.4563614	50	0.4852649	60	0.4469304
2-Methylnaphthalene	5	0.5433458	10	0.5240158	20	0.5074089	40	0.4964651	50	0.5270547	60	0.4486591
2-Methylphenol	5	1.036805	10	1.251204	20	1.076494	40	1.101319	50	1.219829	60	1.083216

INITIAL CALIBRATION DATA

SW8270C

Laboratory: Empirical Laboratories, LLC

SDG: 1110003

Client: Tetra Tech NUS, Inc. (T010)

Project: Navy Fuel Depot CTO JM46

Calibration: 1257001

Instrument: MS-BNA1

Matrix: Water

Calibration Dates: 9/10/11 16:55 9/10/11 21:27

Compound	Level 01		Level 02		Level 03		Level 04		Level 05		Level 06	
	ug/mL	RF	ug/mL	RF	ug/mL	RF	ug/mL	RF	ug/mL	RF	ug/mL	RF
3-Methylphenol	5	1.174586	10	1.265067	20	1.10926	40	1.010085	50	1.044199	60	1.048865
4-Methylphenol	5	1.174586	10	1.265067	20	1.10926	40	1.010085	50	1.044199	60	1.048865
3-Methylphenol/4-Methylphenol	5	1.174586	10	1.265067	20	1.10926	40	1.010085	50	1.044199	60	1.048865
Naphthalene	5	1.328734	10	1.259045	20	1.093715	40	1.12849	50	1.141349	60	1.016975
4-Nitroaniline	5	0.3435386	10	0.4109632	20	0.4192578	40	0.4554694	50	0.4417507	60	0.4453092
3-Nitroaniline	5	0.422456	10	0.4667867	20	0.465831	40	0.4474594	50	0.4447217	60	0.4940349
2-Nitroaniline	5	0.2446325	10	0.2685647	20	0.2505705	40	0.2873843	50	0.2594468	60	0.2833674
Nitrobenzene	5	0.3031585	10	0.2964663	20	0.2646955	40	0.31066	50	0.2853439	60	0.2853786
Nitrobenzene-d5	5	0.3122097	10	0.31247	20	0.2779683	40	0.3309413	50	0.3133756	60	0.3099061
4-Nitrophenol	5	0.13969	10	0.1317368	20	0.1478699	40	0.1738007	50	0.1635334	60	0.1902387
2-Nitrophenol	5	0.2295171	10	0.2282452	20	0.2089967	40	0.2419354	50	0.2291767	60	0.2238339
N-Nitrosodimethylamine	5	0.528809	10	0.5362231	20	0.5141605	40	0.6225687	50	0.6497669	60	0.6142275
N-Nitrosodiphenylamine	5	0.6135924	10	0.6901091	20	0.646579	40	0.6140975	50	0.6169803	60	0.720555
N-Nitroso-di-n-propylamine	5	0.6626134	10	0.7118208	20	0.6404786	40	0.5666458	50	0.6776173	60	0.6327267
Pentachlorophenol	5	0.1665003	10	0.167764	20	0.1932138	40	0.1956966	50	0.1925995	60	0.2077664
Phenanthrene	5	1.178634	10	1.218754	20	1.088526	40	1.041595	50	0.9348914	60	1.100556
Phenol	5	1.432751	10	1.701147	20	1.429532	40	1.513386	50	1.549217	60	1.29893
Phenol-d6	5	1.67904	10	1.760757	20	1.517384	40	1.663034	50	1.652776	60	1.554059
Pyrene	5	1.425487	10	1.365409	20	1.539471	40	1.384537	50	1.426181	60	1.428015
Pyridine	5	1.221919	10	1.38833	20	1.16323	40	1.260711	50	1.222867	60	1.206556
Terphenyl-d14	5	0.6925277	10	0.8002669	20	0.7752649	40	0.8218326	50	0.7309527	60	0.803636
1,2,4,5-Tetrachlorobenzene	5	0.2802882	10	0.3118009	20	0.2709912	40	0.2763516	50	0.2706276	60	0.2641992
2,3,4,6-Tetrachlorophenol	5	0.3308008	10	0.3291164	20	0.32645	40	0.3574904	50	0.3033511	60	0.3447624
2,4,6-Tribromophenol	5	0.1404527	10	0.1452919	20	0.1552839	40	0.1634426	50	0.1538977	60	0.1643005
1,2,4-Trichlorobenzene	5	0.3837072	10	0.3059514	20	0.2995534	40	0.3028145	50	0.3270507	60	0.2873434
2,4,6-Trichlorophenol	5	0.3576148	10	0.4286264	20	0.370546	40	0.462637	50	0.3719431	60	0.3768957
2,4,5-Trichlorophenol	5	0.3739425	10	0.41865	20	0.3845992	40	0.4457664	50	0.3809884	60	0.4281839

INITIAL CALIBRATION DATA (Continued)

SW8270C

Laboratory:	Empirical Laboratories, LLC	SDG:	1110003
Client:	Tetra Tech NUS, Inc. (T010)	Project:	Navy Fuel Depot CTO JM46
Calibration:	1257001	Instrument:	MS-BNA1
Matrix:	Water	Calibration Dates:	9/10/11 16:55 9/10/11 21:27

Compound	Level 07		Level 08		Level 09		Level 10		Level 11		Level 12	
	ug/mL	RF	ug/mL	RF	ug/mL	RF	ug/mL	RF	ug/mL	RF	ug/mL	RF
3,3'-Dichlorobenzidine	80	0.4070965	100	0.3444226								
Acenaphthene	80	1.332476	100	1.060561								
Acenaphthylene	80	1.924045	100	1.606731								
Acetophenone	80	~~1.178579~~	100	~~1.317486~~								
Aniline	80	1.599967	100	1.51741								
Anthracene	80	0.9519004	100	0.9423928								
Atrazine	80	~~0.1312173~~	100	~~0.1387201~~								
Benzaldehyde	80	~~0.5268026~~	100	~~0.467966~~								
Benzidine	80	~~0.3594153~~	100	~~0.2714703~~								
Benzo(a)anthracene	80	1.255031	100	1.227372								
Benzo(a)pyrene	80	1.127458	100	1.095661								
Benzo(b)fluoranthene	80	1.293326	100	1.218633								
Benzo(g,h,i)perylene	80	0.7126754	100	0.8400355								
Benzoic acid	80	0.2743328	100	0.2811543								
Benzo(k)fluoranthene	80	1.309306	100	1.320129								
Benzyl alcohol	80	0.7138551	100	0.7861788								
1,1-Biphenyl	80	1.544109	100	1.304474								
4-Bromophenyl-phenylether	80	0.2077947	100	0.2207034								
Butylbenzylphthalate	80	1.059084	100	1.102484								
Caprolactam	80	0.1318029	100									
Carbazole	80	0.9342418	100	1.076922								
4-Chloro-3-methylphenol	80	0.2803836	100	0.2420408								
4-Chloroaniline	80	0.3738367	100	0.3398619								
Bis(2-chloroethoxy)methane	80	0.3993775	100	0.4112802								
Bis(2-chloroethyl)ether	80	1.259671	100	1.268297								
2,2'-Oxybis-1-chloropropane	80	1.490494	100	1.750242								
2-Chloronaphthalene	80	1.336319	100	1.097725								
2-Chlorophenol	80	1.391108	100	1.236679								
4-Chlorophenyl phenyl ether	80	0.564188	100	0.4537004								
Chrysene	80	1.211279	100	1.135603								
Dibenz(a,h)anthracene	80	0.7430608	100	0.8730546								

INITIAL CALIBRATION DATA (Continued)

SW8270C

Laboratory:	Empirical Laboratories, LLC	SDG:	1110003
Client:	Tetra Tech NUS, Inc. (T010)	Project:	Navy Fuel Depot CTO JM46
Calibration:	1257001	Instrument:	MS-BNA1
Matrix:	Water	Calibration Dates:	9/10/11 16:55 9/10/11 21:27

Compound	Level 07		Level 08		Level 09		Level 10		Level 11		Level 12	
	ug/mL	RF	ug/mL	RF	ug/mL	RF	ug/mL	RF	ug/mL	RF	ug/mL	RF
Dibenzofuran	80	1.687892	100	1.322755								
Di-n-butylphthalate	80	1.414877	100	1.489049								
1,4-Dichlorobenzene	80	1.417496	100	1.447155								
1,3-Dichlorobenzene	80	1.33735	100	1.46778								
1,2-Dichlorobenzene	80	1.438576	100	1.531086								
2,6-Dichlorophenol	80	0.2845493	100	0.2588119								
2,4-Dichlorophenol	80	0.3054094	100	0.3114821								
Diethylphthalate	80	1.491923	100	1.358285								
2,4-Dimethylphenol	80	0.3372433	100	0.3244942								
Dimethyl phthalate	80	1.468374	100	1.248652								
4,6-Dinitro-2-methylphenol	80	0.1965102	100	0.211339								
2,4-Dinitrophenol	80	0.2954728	100	~~0.2509406~~								
2,4-Dinitrotoluene	80	0.5508348	100	0.4354016								
2,6-Dinitrotoluene	80	0.4702265	100	0.3680973								
Di-n-octylphthalate	80	2.772625	100	2.82337								
1,4-Dioxane	80	~~0.9857528~~	100	~~0.4272239~~								
1,2-Diphenylhydrazine	80	0.7686142	100	0.7422181								
Bis(2-ethylhexyl)phthalate	80	1.524695	100	1.428241								
Fluoranthene	80	0.8509739	100	0.9424213								
Fluorene	80	1.216434	100	1.039865								
2-Fluorobiphenyl	80	1.478656	100	1.143107								
2-Fluorophenol	80	1.313756	100	1.350565	200	1.053024						
Hexachlorobenzene	80	0.2417735	100	0.2628742								
Hexachlorobutadiene	80	0.1839426	100	0.1960631								
Hexachlorocyclopentadiene	80	0.4117793	100	0.3285772								
Hexachloroethane	80	0.6479536	100	0.7262751								
Indeno(1,2,3-cd)pyrene	80	0.7075872	100	0.8498765								
Isophorone	80	0.6190702	100	0.5275148								
1-Methylnaphthalene	80	0.4688323	100	0.409534								
2-Methylnaphthalene	80	0.4777927	100	0.4089162								
2-Methylphenol	80	1.001809	100	1.107214								

INITIAL CALIBRATION DATA (Continued)

SW8270C

Laboratory:	Empirical Laboratories, LLC	SDG:	1110003
Client:	Tetra Tech NUS, Inc. (T010)	Project:	Navy Fuel Depot CTO JM46
Calibration:	1257001	Instrument:	MS-BNA1
Matrix:	Water	Calibration Dates:	9/10/11 16:55 9/10/11 21:27

Compound	Level 07		Level 08		Level 09		Level 10		Level 11		Level 12	
	ug/mL	RF	ug/mL	RF	ug/mL	RF	ug/mL	RF	ug/mL	RF	ug/mL	RF
3-Methylphenol	80	0.8544883	100	0.9579631								
4-Methylphenol	80	0.8544883	100	0.9579631								
3-Methylphenol/4-Methylphenol	80	0.8544883	100	0.9579631								
Naphthalene	80	0.9103076	100	0.8948393								
4-Nitroaniline	80	0.5289593	100	0.4305257								
3-Nitroaniline	80	0.505039	100	0.4231225								
2-Nitroaniline	80	0.3463494	100	0.2873848								
Nitrobenzene	80	0.2787216	100	0.2966583								
Nitrobenzene-d5	80	0.3284857	100	0.3218329								
4-Nitrophenol	80	~~0.2144948~~	100	~~0.1818078~~								
2-Nitrophenol	80	0.2596093	100	0.2315326								
N-Nitrosodimethylamine	80	0.6064137	100	0.6920768								
N-Nitrosodiphenylamine	80	0.6089421	100	0.6280442								
N-Nitroso-di-n-propylamine	80	0.5402654	100	0.5995647								
Pentachlorophenol	80	0.1712121	100	0.1999055								
Phenanthrene	80	0.9918138	100	0.9239188								
Phenol	80	1.428658	100	1.42999								
Phenol-d6	80	1.616419	100	1.598738	200	1.185591						
Pyrene	80	1.495958	100	1.55802								
Pyridine	80	0.989204	100	1.26167								
Terphenyl-d14	80	0.9127464	100	0.9356734								
1,2,4,5-Tetrachlorobenzene	80	0.2721473	100	0.248434								
2,3,4,6-Tetrachlorophenol	80	0.3929412	100	0.3199546								
2,4,6-Tribromophenol	80	0.1419103	100	0.1579801	200	0.1528592						
1,2,4-Trichlorobenzene	80	0.3065798	100	0.2911002								
2,4,6-Trichlorophenol	80	0.4890976	100	0.4019529								
2,4,5-Trichlorophenol	80	0.4813727	100	0.3777783								

INITIAL CALIBRATION DATA (Continued)

SW8270C

Laboratory:	Empirical Laboratories, LLC	SDG:	1110003
Client:	Tetra Tech NUS, Inc. (T010)	Project:	Navy Fuel Depot CTO JM46
Calibration:	1257001	Instrument:	MS-BNA1
Matrix:	Water	Calibration Dates:	9/10/11 16:55 9/10/11 21:27

Compound	Mean RF	RF RSD	Mean RT	RT RSD	Linear r	Quad COD	LIMIT	Q
3,3'-Dichlorobenzidine	0.3657615	11.61398	16.79425	0.0349288			15	
Acenaphthene	1.22005	6.901354	10.85938	0.0600376			CCC (30)	
Acenaphthylene	1.81373	7.317589	10.64463	6.407281E-02			15	
Acetophenone	1.636614	11.28483	7.485167	8.756375E-02			15	
Aniline	1.681154	8.039873	6.543125	6.285011E-02			15	
Anthracene	1.060693	11.44549	12.7535	6.453642E-02			15	
Atrazine	0.2016455	9.229404	12.288	4.056052E-02			15	
Benzaldehyde	0.8074234	14.50212	6.414333	4.242629E-02			15	
Benzidine	0.5076225	10.67883	14.551	1.434621E-02			15	
Benzo(a)anthracene	1.211226	5.8397	16.82813	3.039245E-02			15	
Benzo(a)pyrene	1.081565	6.839327	19.48587	4.064051E-02			CCC (30)	
Benzo(b)fluoranthene	1.19717	7.199178	18.88037	4.779321E-02			15	
Benzo(g,h,i)perylene	0.8086341	9.568134	22.55463	0.0704086			15	
Benzoic acid	0.2339033	19.1444	8.2885	0.6146899	0.9978808		0.995	
Benzo(k)fluoranthene	1.219154	6.316763	18.93625	0.0525975			15	
Benzyl alcohol	0.7848726	5.74677	7.13825	0.1292875			15	
1,1-Biphenyl	1.484958	9.068812	10.09775	0.0376721			15	
4-Bromophenyl-phenylether	0.2188965	5.571949	12.0955	5.157281E-02			15	
Butylbenzylphthalate	0.9801122	8.561921	15.82075	2.700878E-02			15	
Caprolactam	0.1128524	8.826022	9.155286	0.3783966			15	
Carbazole	1.047889	6.336259	12.95363	3.877578E-02			15	
4-Chloro-3-methylphenol	0.2594093	4.822758	9.30775	0.1030947			CCC (30)	
4-Chloroaniline	0.4260248	14.37427	8.701375	0.1081533			15	
Bis(2-chloroethoxy)methane	0.4070027	6.80256	8.2945	6.873109E-02			15	
Bis(2-chloroethyl)ether	1.284229	5.215956	6.62275	9.158454E-02			15	
2,2'-Oxybis-1-chloropropane	1.785152	8.906661	7.314125	0.0833014			15	
2-Chloronaphthalene	1.252728	8.961521	10.12563	5.479706E-02			15	
2-Chlorophenol	1.468001	9.977145	6.689625	6.194925E-02			15	
4-Chlorophenyl phenyl ether	0.5128224	9.285268	11.49162	2.500606E-02			15	
Chrysene	1.169091	3.542724	16.89913	4.095883E-02			15	
Dibenz(a,h)anthracene	0.7795641	10.28853	21.95125	4.987003E-02			15	
Dibenzofuran	1.5466	8.288981	11.07238	0.0685793			15	

INITIAL CALIBRATION DATA (Continued)

SW8270C

Laboratory:	Empirical Laboratories, LLC	SDG:	1110003
Client:	Tetra Tech NUS, Inc. (T010)	Project:	Navy Fuel Depot CTO JM46
Calibration:	1257001	Instrument:	MS-BNA1
Matrix:	Water	Calibration Dates:	9/10/11 16:55 9/10/11 21:27

Compound	Mean RF	RF RSD	Mean RT	RT RSD	Linear r	Quad COD	LIMIT	Q
Di-n-butylphthalate	1.537641	5.614653	13.41163	2.593919E-02			15	
1,4-Dichlorobenzene	1.5803	6.825025	6.9915	4.017477E-02			CCC (30)	
1,3-Dichlorobenzene	1.588647	10.56224	6.8935	4.423727E-02			15	
1,2-Dichlorobenzene	1.568067	5.752663	7.18425	4.624515E-02			15	
2,6-Dichlorophenol	0.2990612	8.33041	8.706125	5.999107E-02			15	
2,4-Dichlorophenol	0.3169117	7.319496	8.415875	7.826741E-02			CCC (30)	
Diethylphthalate	1.464237	3.491581	11.34687	8.151547E-02			15	
2,4-Dimethylphenol	0.3240522	5.948167	8.157625	7.292536E-02			15	
Dimethyl phthalate	1.407702	6.64562	10.47738	8.585737E-02			15	
4,6-Dinitro-2-methylphenol	0.178224	19.65976	11.55225	8.150049E-02	0.9969059		0.995	
2,4-Dinitrophenol	0.2017147	31.66538	10.88557	6.854064E-02		0.9977751	SPCC (0.05)	
2,4-Dinitrotoluene	0.4652937	8.165545	11.0515	8.135495E-02			15	
2,6-Dinitrotoluene	0.3833728	9.670011	10.5555	8.260715E-02			15	
Di-n-octylphthalate	2.455223	15.17258	18.2215	1.060891E-02	0.9959081		CCC (30)	
1,4-Dioxane	0.5386083	5.94065	3.5022	0.1173749			15	
1,2-Diphenylhydrazine	0.7520631	5.129666	11.68463	4.014904E-02			15	
Bis(2-ethylhexyl)phthalate	1.362333	10.1512	16.93213	1.342509E-02			15	
Fluoranthene	1.011607	9.462898	14.3485	3.340265E-02			CCC (30)	
Fluorene	1.173657	10.31453	11.49888	4.555226E-02			15	
2-Fluorobiphenyl	1.334603	9.081331	9.97225	3.397177E-02			15	
2-Fluorophenol	1.364172	10.35376	5.301556	3.725569E-02			15	
Hexachlorobenzene	0.258176	4.236044	12.1665	3.849317E-02			15	
Hexachlorobutadiene	0.1955893	5.781479	8.78475	4.215739E-02			CCC (30)	
Hexachlorocyclopentadiene	0.3524926	10.29927	9.7055	2.895425E-02			SPCC (0.05)	
Hexachloroethane	0.7232381	6.459682	7.619625	5.413655E-02			15	
Indeno(1,2,3-cd)pyrene	0.7779429	11.31398	21.88412	5.517184E-02			15	
Isophorone	0.5731082	7.123074	8.017875	0.1112196			15	
1-Methylnaphthalene	0.4658148	7.570245	9.634875	3.393566E-02			15	
2-Methylnaphthalene	0.4917073	9.13729	9.5105	2.985221E-02			15	
2-Methylphenol	1.109736	7.690573	7.26775	7.987018E-02			15	
3-Methylphenol	1.058064	12.01303	7.4705	0.1222108			15	
4-Methylphenol	1.058064	12.01303	7.4705	0.1222108			15	

INITIAL CALIBRATION DATA (Continued)

SW8270C

Laboratory:	Empirical Laboratories, LLC	SDG:	1110003
Client:	Tetra Tech NUS, Inc. (T010)	Project:	Navy Fuel Depot CTO JM46
Calibration:	1257001	Instrument:	MS-BNA1
Matrix:	Water	Calibration Dates:	9/10/11 16:55 9/10/11 21:27

Compound	Mean RF	RF RSD	Mean RT	RT RSD	Linear r	Quad COD	LIMIT	Q
3-Methylphenol/4-Methylphenol	1.058064	12.01303	7.4705	0.1222108			15	
Naphthalene	1.096682	14.00181	8.635375	6.090623E-02			15	
4-Nitroaniline	0.4344717	11.86687	11.51825	0.120674			15	
3-Nitroaniline	0.4586814	6.599001	10.7605	7.804296E-02			15	
2-Nitroaniline	0.2784625	11.4964	10.2475	5.730027E-02			15	
Nitrobenzene	0.2901353	5.03957	7.708	7.692248E-02			15	
Nitrobenzene-d5	0.3133987	5.224007	7.68075	7.321264E-02			15	
4-Nitrophenol	0.1578116	14.01832	10.94267	5.772434E-02			SPCC (0.05)	
2-Nitrophenol	0.2316059	6.286708	8.113375	5.994476E-02			CCC (30)	
N-Nitrosodimethylamine	0.5955308	10.62989	3.81525	9.491339E-02			15	
N-Nitrosodiphenylamine	0.6423624	6.446747	11.6385	6.136556E-02			CCC (30)	
N-Nitroso-di-n-propylamine	0.6289666	9.138625	7.489	0.1364515			SPCC (0.05)	
Pentachlorophenol	0.1868323	8.541545	12.40613	3.195651E-02			CCC (30)	
Phenanthrene	1.059836	10.14307	12.68925	3.755502E-02			15	
Phenol	1.472951	7.996695	6.4835	0.1451123			CCC (30)	
Phenol-d6	1.580866	10.40602	6.463889	0.1370529			15	
Pyrene	1.452885	4.853788	14.7075	4.062704E-02			15	
Pyridine	1.214311	9.241393	3.860625	0.2203153			15	
Terphenyl-d14	0.8091126	10.22101	14.95925	3.256362E-02			15	
1,2,4,5-Tetrachlorobenzene	0.274355	6.52968	9.7195	5.396971E-02			15	
2,3,4,6-Tetrachlorophenol	0.3381084	8.087746	11.16075	4.810391E-02			15	
2,4,6-Tribromophenol	0.1528243	5.700446	11.78989	0.0335614			15	
1,2,4-Trichlorobenzene	0.3130126	9.891411	8.53175	4.031596E-02			15	
2,4,6-Trichlorophenol	0.4074142	11.81895	9.859875	5.313493E-02			CCC (30)	
2,4,5-Trichlorophenol	0.4114102	9.453346	9.9045	6.643582E-02			15	

INITIAL CALIBRATION CHECK

SW8270C

Laboratory:	Empirical Laboratories, LLC	SDG:	1110003
Client:	Tetra Tech NUS, Inc. (T010)	Project:	Navy Fuel Depot CTO JM46
Instrument ID:	MS-BNA3	Calibration:	1236001
Lab File ID:	SEQ-ICV1.D	Calibration Date:	04/29/11 17:45
Sequence:	1E12203	Injection Date:	04/30/11
Lab Sample ID:	1E12203-ICV1	Injection Time:	15:07

		CONC. (ug/mL)		RESPONSE FACTOR			% DIFF / DRIFT	
COMPOUND	TYPE	STD	ICV	ICAL	ICV	MIN (#)	ICV	LIMIT (#)
4-Bromophenyl-phenylether	A	50.00	52.91	0.2284778	0.2417889		5.8	20
Butylbenzylphthalate	A	50.00	56.82	0.5129818	0.582953		13.6	20
Carbazole	A	50.00	51.29	1.044381	1.071248		2.6	20
4-Chloro-3-methylphenol	A	50.00	52.69	0.3113523	0.3281338		5.4	20
4-Chloroaniline	A	50.00	50.78	0.4225325	0.4291082		1.6	20
Bis(2-chloroethoxy)methane	A	50.00	54.60	0.4269873	0.4662333		9.2	20
Bis(2-chloroethyl)ether	A	50.00	52.57	1.297842	1.3646		5.1	20
2,2'-Oxybis-1-chloropropane	A	50.00	51.93	1.947114	2.022377		3.9	20
2-Chloronaphthalene	A	50.00	52.76	1.087766	1.147861		5.5	20
2-Chlorophenol	A	50.00	53.41	1.315004	1.404776		6.8	20
4-Chlorophenyl phenyl ether	A	50.00	51.82	0.6233489	0.6461009		3.6	20
Dibenzofuran	A	50.00	53.17	1.535116	1.632439		6.3	20
Di-n-butylphthalate	A	50.00	52.16	1.182012	1.233187		4.3	20
2,4-Dichlorophenol	A	50.00	52.27	0.3046728	0.3185106		4.5	20
Diethylphthalate	A	50.00	52.18	1.194731	1.246888		4.4	20
2,4-Dimethylphenol	A	50.00	53.80	0.3636609	0.3913226		7.6	20
Dimethyl phthalate	A	50.00	52.08	1.24444	1.296196		4.2	20
2,4-Dinitrotoluene	A	50.00	52.99	0.3929838	0.4165004		6.0	20
2,6-Dinitrotoluene	A	50.00	53.60	0.2991862	0.3207071		7.2	20
Di-n-octylphthalate	A	50.00	55.56	1.204345	1.338299		11.1	20
Bis(2-ethylhexyl)phthalate	A	50.00	54.80	0.6793074	0.7445394		9.6	20
Hexachlorobenzene	A	50.00	53.53	0.244362	0.2616019		7.1	20
Hexachlorocyclopentadiene	A	50.00	50.51	0.3749749	0.3787812	0.05	1.0	20
Hexachloroethane	A	50.00	53.43	0.5464632	0.5839846		6.9	20
Isophorone	A	50.00	51.26	0.7442763	0.7630284		2.5	20
2-Methylphenol	A	50.00	52.67	1.208635	1.273291		5.3	20
4-Methylphenol	A	50.00	51.20	1.268409	1.298786		2.4	20
Naphthalene	A	50.00	52.85	0.9958993	1.052611		5.7	20
4-Nitroaniline	A	50.00	53.01	0.3272887	0.3469818		6.0	20

INITIAL CALIBRATION CHECK

SW8270C

Laboratory:	Empirical Laboratories, LLC	SDG:	1110003
Client:	Tetra Tech NUS, Inc. (T010)	Project:	Navy Fuel Depot CTO JM46
Instrument ID:	MS-BNA3	Calibration:	1236001
Lab File ID:	SEQ-ICV1.D	Calibration Date:	04/29/11 17:45
Sequence:	1E12203	Injection Date:	04/30/11
Lab Sample ID:	1E12203-ICV1	Injection Time:	15:07

		CONC. (ug/mL)		RESPONSE FACTOR			% DIFF / DRIFT	
COMPOUND	TYPE	STD	ICV	ICAL	ICV	MIN (#)	ICV	LIMIT (#)
3-Nitroaniline	A	50.00	53.20	0.3230815	0.3437513		6.4	20
2-Nitroaniline	A	50.00	53.86	0.3700237	0.3985975		7.7	20
Nitrobenzene	A	50.00	52.75	0.4107927	0.4333935		5.5	20
4-Nitrophenol	A	50.00	53.70	0.2721678	0.292285	0.05	7.4	20
2-Nitrophenol	A	50.00	53.57	0.1941449	0.2080171		7.1	20
N-Nitrosodiphenylamine	A	50.00	53.24	0.6728889	0.7164793		6.5	20
N-Nitroso-di-n-propylamine	A	50.00	54.25	1.033966	1.12186	0.05	8.5	20
Phenol	A	50.00	52.06	1.687698	1.757079		4.1	20
2,3,4,6-Tetrachlorophenol	A	50.00	50.18	0.3340715	0.3352563		0.4	20
2,4,6-Trichlorophenol	A	50.00	53.68	0.382004	0.4101383		7.4	20
2,4,5-Trichlorophenol	A	50.00	52.48	0.4142645	0.4348178		5.0	20
2-Fluorobiphenyl	A	50.00	54.11	1.265417	1.369371		8.2	20
2-Fluorophenol	A	100.0	114.6	1.142171	1.308424		14.6	20
Nitrobenzene-d5	A	50.00	55.94	0.4075494	0.4559688		11.9	20
Terphenyl-d14	A	50.00	54.87	0.7462196	0.8189273		9.7	20
2,4,6-Tribromophenol	A	100.0	109.2	0.109869	0.1200227		9.2	20

Column to be used to flag Response Factor and %Diff/Drift values with an asterisk

* Values outside of QC limits

INITIAL CALIBRATION CHECK

SW8270C

Laboratory:	Empirical Laboratories, LLC	SDG:	1110003
Client:	Tetra Tech NUS, Inc. (T010)	Project:	Navy Fuel Depot CTO JM46
Instrument ID:	MS-BNA3	Calibration:	1236001
Lab File ID:	SEQ-ICV2.D	Calibration Date:	04/29/11 17:45
Sequence:	1E12203	Injection Date:	04/30/11
Lab Sample ID:	1E12203-ICV2	Injection Time:	15:40

		CONC. (ug/mL)		RESPONSE FACTOR			% DIFF / DRIFT	
COMPOUND	TYPE	STD	ICV	ICAL	ICV	MIN (#)	ICV	LIMIT (#)
Acetophenone	A	50.00	48.88	1.801986	1.761675		-2.2	20
Atrazine	A	50.00	50.39	0.2344682	0.2362964		0.8	20
1,1-Biphenyl	A	50.00	51.20	1.444453	1.479098		2.4	20
Caprolactam	A	50.00	56.58	0.1128421	0.1276823		13.2	20
3,3'-Dichlorobenzidine	A	50.00	52.77	0.4067228	0.4292329		5.5	20
1,2,4,5-Tetrachlorobenzene	A	50.00	51.57	0.3352828	0.3457949		3.1	20

Column to be used to flag Response Factor and %Diff/Drift values with an asterisk

* Values outside of QC limits

INITIAL CALIBRATION CHECK

SW8270C

Laboratory:	Empirical Laboratories, LLC	SDG:	1110003
Client:	Tetra Tech NUS, Inc. (T010)	Project:	Navy Fuel Depot CTO JM46
Instrument ID:	MS-BNA3	Calibration:	1236001
Lab File ID:	SEQ-ICV5.D	Calibration Date:	04/29/11 17:45
Sequence:	1E12203	Injection Date:	04/30/11
Lab Sample ID:	1E12203-ICV3	Injection Time:	17:19

		CONC. (ug/mL)		RESPONSE FACTOR			% DIFF / DRIFT	
COMPOUND	TYPE	STD	ICV	ICAL	ICV	MIN (#)	ICV	LIMIT (#)
4,6-Dinitro-2-methylphenol	A	50.00	53.45	0.1454148	0.1554342		6.9	20
2,4-Dinitrophenol	A	50.00	61.89	0.1854397	0.2295477	0.05	23.8	20 *

Column to be used to flag Response Factor and %Diff/Drift values with an asterisk

* Values outside of QC limits

INITIAL CALIBRATION CHECK

SW8270C

Laboratory:	Empirical Laboratories, LLC	SDG:	1110003
Client:	Tetra Tech NUS, Inc. (T010)	Project:	Navy Fuel Depot CTO JM46
Instrument ID:	MS-BNA3	Calibration:	1236001
Lab File ID:	SEQ-ICV4.D	Calibration Date:	04/29/11 17:45
Sequence:	1E12203	Injection Date:	05/02/11
Lab Sample ID:	1E12203-ICV4	Injection Time:	14:16

		CONC. (ug/mL)		RESPONSE FACTOR			% DIFF / DRIFT	
COMPOUND	TYPE	STD	ICV	ICAL	ICV	MIN (#)	ICV	LIMIT (#)
Benzaldehyde	A	50.00	50.85	1.010105	1.027374		1.7	20

Column to be used to flag Response Factor and %Diff/Drift values with an asterisk

* Values outside of QC limits

INITIAL CALIBRATION CHECK

SW8270C

Laboratory:	Empirical Laboratories, LLC	SDG:	1110003
Client:	Tetra Tech NUS, Inc. (T010)	Project:	Navy Fuel Depot CTO JM46
Instrument ID:	MS-BNA1	Calibration:	1257001
Lab File ID:	SEQ-ICV1.D	Calibration Date:	09/10/11 16:55
Sequence:	1I25701	Injection Date:	09/10/11
Lab Sample ID:	1I25701-ICV1	Injection Time:	22:40

		CONC. (ug/mL)		RESPONSE FACTOR			% DIFF / DRIFT	
COMPOUND	TYPE	STD	ICV	ICAL	ICV	MIN (#)	ICV	LIMIT (#)
Acetophenone	A	50.00	40.56	1.636614	1.327505		-18.9	20
Atrazine	A	50.00	46.05	0.2016455	0.1857194		-7.9	20
Benzaldehyde	A	50.00	43.90	0.8074234	0.7088936		-12.2	20
1,1-Biphenyl	A	50.00	47.31	1.484958	1.405077		-5.4	20
4-Bromophenyl-phenylether	A	50.00	44.31	0.2188965	0.1939739		-11.4	20
Butylbenzylphthalate	A	50.00	49.72	0.9801122	0.9746325		-0.6	20
Caprolactam	A	50.00	50.38	0.1128524	0.1137137		0.8	20
Carbazole	A	50.00	49.31	1.047889	1.033476		-1.4	20
4-Chloro-3-methylphenol	A	50.00	55.45	0.2594093	0.2876596		10.9	20
4-Chloroaniline	A	50.00	47.05	0.4260248	0.4009177		-5.9	20
Bis(2-chloroethoxy)methane	A	50.00	47.01	0.4070027	0.3826302		-6.0	20
Bis(2-chloroethyl)ether	A	50.00	48.76	1.284229	1.252298		-2.5	20
2,2'-Oxybis-1-chloropropane	A	50.00	48.30	1.785152	1.724416		-3.4	20
2-Chloronaphthalene	A	50.00	48.92	1.252728	1.225695		-2.2	20
2-Chlorophenol	A	50.00	47.24	1.468001	1.386972		-5.5	20
4-Chlorophenyl phenyl ether	A	50.00	49.98	0.5128224	0.5126259		-0.04	20
Dibenzofuran	A	50.00	46.56	1.5466	1.440104		-6.9	20
Di-n-butylphthalate	A	50.00	50.14	1.537641	1.54193		0.3	20
2,4-Dichlorophenol	A	50.00	51.32	0.3169117	0.3252501		2.6	20
Diethylphthalate	A	50.00	49.32	1.464237	1.444229		-1.4	20
2,4-Dimethylphenol	A	50.00	48.26	0.3240522	0.3128018		-3.5	20
Dimethyl phthalate	A	50.00	51.41	1.407702	1.447295		2.8	20
4,6-Dinitro-2-methylphenol	L	50.00	41.23	0.178224	0.1609085		-17.5	20
2,4-Dinitrophenol	Q	50.00	47.54	0.2017147	0.2134396	0.05	-4.9	20
2,4-Dinitrotoluene	A	50.00	49.21	0.4652937	0.4579799		-1.6	20
2,6-Dinitrotoluene	A	50.00	48.96	0.3833728	0.3753696		-2.1	20
Di-n-octylphthalate	L	50.00	51.29	2.455223	2.754281		2.6	20
Bis(2-ethylhexyl)phthalate	A	50.00	47.47	1.362333	1.293379		-5.1	20
Hexachlorobenzene	A	50.00	47.88	0.258176	0.2472172		-4.2	20

INITIAL CALIBRATION CHECK

SW8270C

Laboratory:	Empirical Laboratories, LLC	SDG:	1110003
Client:	Tetra Tech NUS, Inc. (T010)	Project:	Navy Fuel Depot CTO JM46
Instrument ID:	MS-BNA1	Calibration:	1257001
Lab File ID:	SEQ-ICV1.D	Calibration Date:	09/10/11 16:55
Sequence:	1I25701	Injection Date:	09/10/11
Lab Sample ID:	1I25701-ICV1	Injection Time:	22:40

		CONC. (ug/mL)		RESPONSE FACTOR			% DIFF / DRIFT	
COMPOUND	TYPE	STD	ICV	ICAL	ICV	MIN (#)	ICV	LIMIT (#)
Hexachlorocyclopentadiene	A	50.00	52.26	0.3524926	0.3684454	0.05	4.5	20
Hexachloroethane	A	50.00	47.87	0.7232381	0.6924717		-4.3	20
Isophorone	A	50.00	49.64	0.5731082	0.56903		-0.7	20
2-Methylphenol	A	50.00	48.99	1.109736	1.087424		-2.0	20
4-Methylphenol	A	50.00	47.19	1.058064	0.9984971		-5.6	20
Naphthalene	A	50.00	43.23	1.096682	0.9482223		-13.5	20
4-Nitroaniline	A	50.00	46.86	0.4344717	0.4072093		-6.3	20
3-Nitroaniline	A	50.00	52.33	0.4586814	0.4800309		4.7	20
2-Nitroaniline	A	50.00	59.49	0.2784625	0.3313174		19.0	20
Nitrobenzene	A	50.00	53.28	0.2901353	0.3091627		6.6	20
4-Nitrophenol	A	50.00	51.05	0.1578116	0.1611266	0.05	2.1	20
2-Nitrophenol	A	50.00	49.75	0.2316059	0.230451		-0.5	20
N-Nitrosodiphenylamine	A	50.00	46.63	0.6423624	0.5990456		-6.7	20
N-Nitroso-di-n-propylamine	A	50.00	46.34	0.6289666	0.5829753	0.05	-7.3	20
Phenol	A	50.00	47.81	1.472951	1.408437		-4.4	20
1,2,4,5-Tetrachlorobenzene	A	50.00	46.51	0.274355	0.2552209		-7.0	20
2,3,4,6-Tetrachlorophenol	A	50.00	46.23	0.3381084	0.3126445		-7.5	20
2,4,6-Trichlorophenol	A	50.00	49.44	0.4074142	0.4028538		-1.1	20
2,4,5-Trichlorophenol	A	50.00	49.94	0.4114102	0.4108754		-0.1	20
2-Fluorobiphenyl	A	50.00	48.12	1.334603	1.284474		-3.8	20
2-Fluorophenol	A	100.0	81.00	1.364172	1.10504		-19.0	20
Nitrobenzene-d5	A	50.00	53.81	0.3133987	0.337298		7.6	20
Phenol-d6	A	100.0	91.53	1.580866	1.447012		-8.5	20
Terphenyl-d14	A	50.00	49.19	0.8091126	0.7959832		-1.6	20
2,4,6-Tribromophenol	A	100.0	86.74	0.1528243	0.1325628		-13.3	20

Column to be used to flag Response Factor and %Diff/Drift values with an asterisk

* Values outside of QC limits

INITIAL CALIBRATION CHECK

SW8270C

Laboratory:	Empirical Laboratories, LLC	SDG:	1110003
Client:	Tetra Tech NUS, Inc. (T010)	Project:	Navy Fuel Depot CTO JM46
Instrument ID:	MS-BNA1	Calibration:	1257001
Lab File ID:	SEQ-ICV2.D	Calibration Date:	09/10/11 16:55
Sequence:	1I25701	Injection Date:	09/13/11
Lab Sample ID:	1I25701-ICV2	Injection Time:	15:28

		CONC. (ug/mL)		RESPONSE FACTOR			% DIFF / DRIFT	
COMPOUND	TYPE	STD	ICV	ICAL	ICV	MIN (#)	ICV	LIMIT (#)
3,3'-Dichlorobenzidine	A	50.00	57.94	0.3657615	0.4238501		15.9	20

Column to be used to flag Response Factor and %Diff/Drift values with an asterisk

* Values outside of QC limits

CONTINUING CALIBRATION CHECK

SW8270C

Laboratory:	Empirical Laboratories, LLC	SDG:	1110003
Client:	Tetra Tech NUS, Inc. (T010)	Project:	Navy Fuel Depot CTO JM46
Instrument ID:	MS-BNA1	Calibration:	1257001
Lab File ID:	SEQ-CCV1.D	Calibration Date:	09/10/11 16:55
Sequence:	1J27903	Injection Date:	10/05/11
Lab Sample ID:	1J27903-CCV1	Injection Time:	08:50

		CONC. (ug/mL)		RESPONSE FACTOR			% DIFF / DRIFT	
COMPOUND	TYPE	STD	CCV	ICAL	CCV	MIN (#)	CCV	LIMIT (#)
3,3'-Dichlorobenzidine	A	50.00	46.42	0.3657615	0.3396025		-7.2	20
Acetophenone	A	50.00	36.87	1.636614	1.206831		-26.3	20 *
Atrazine	A	50.00	38.54	0.2016455	0.155434		-22.9	20 *
Benzaldehyde	A	50.00	34.63	0.8074234	0.5591951		-30.7	20 *
1,1-Biphenyl	A	50.00	43.97	1.484958	1.306009		-12.1	20
4-Bromophenyl-phenylether	A	50.00	48.38	0.2188965	0.2118108		-3.2	20
Butylbenzylphthalate	A	50.00	39.11	0.9801122	0.7666263		-21.8	20 *
Caprolactam	A	50.00	45.68	0.1128524	0.1030939		-8.6	20
Carbazole	A	50.00	43.31	1.047889	0.9077305		-13.4	20
4-Chloro-3-methylphenol	A	50.00	45.24	0.2594093	0.2346885		-9.5	20
4-Chloroaniline	A	50.00	46.08	0.4260248	0.3926676		-7.8	20
Bis(2-chloroethoxy)methane	A	50.00	41.66	0.4070027	0.3390992		-16.7	20
Bis(2-chloroethyl)ether	A	50.00	40.23	1.284229	1.033278		-19.5	20
2,2'-Oxybis-1-chloropropane	A	50.00	42.17	1.785152	1.505723		-15.7	20
2-Chloronaphthalene	A	50.00	43.64	1.252728	1.093362		-12.7	20
2-Chlorophenol	A	50.00	40.78	1.468001	1.197396		-18.4	20
4-Chlorophenyl phenyl ether	A	50.00	44.32	0.5128224	0.454566		-11.4	20
Dibenzofuran	A	50.00	46.28	1.5466	1.431462		-7.4	20
Di-n-butylphthalate	A	50.00	43.86	1.537641	1.348713		-12.3	20
2,4-Dichlorophenol	A	50.00	42.22	0.3169117	0.2675779		-15.6	20
Diethylphthalate	A	50.00	36.40	1.464237	1.065848		-27.2	20 *
2,4-Dimethylphenol	A	50.00	43.40	0.3240522	0.2812694		-13.2	20
Dimethyl phthalate	A	50.00	41.90	1.407702	1.179563		-16.2	20
4,6-Dinitro-2-methylphenol	L	50.00	40.69	0.178224	0.158624		-18.6	20
2,4-Dinitrophenol	Q	50.00	42.90	0.2017147	0.1870285	0.05	-14.2	20
2,4-Dinitrotoluene	A	50.00	42.32	0.4652937	0.3938224		-15.4	20
2,6-Dinitrotoluene	A	50.00	40.28	0.3833728	0.3088067		-19.5	20
Di-n-octylphthalate	L	50.00	41.73	2.455223	2.204223		-16.5	20
Bis(2-ethylhexyl)phthalate	A	50.00	37.84	1.362333	1.031079		-24.3	20 *

CONTINUING CALIBRATION CHECK

SW8270C

Laboratory:	Empirical Laboratories, LLC	SDG:	1110003
Client:	Tetra Tech NUS, Inc. (T010)	Project:	Navy Fuel Depot CTO JM46
Instrument ID:	MS-BNA1	Calibration:	1257001
Lab File ID:	SEQ-CCV1.D	Calibration Date:	09/10/11 16:55
Sequence:	1J27903	Injection Date:	10/05/11
Lab Sample ID:	1J27903-CCV1	Injection Time:	08:50

		CONC. (ug/mL)		RESPONSE FACTOR			% DIFF / DRIFT	
COMPOUND	TYPE	STD	CCV	ICAL	CCV	MIN (#)	CCV	LIMIT (#)
Hexachlorobenzene	A	50.00	43.73	0.258176	0.2258018		-12.5	20
Hexachlorocyclopentadiene	A	50.00	50.01	0.3524926	0.3525966	0.05	0.03	20
Hexachloroethane	A	50.00	42.34	0.7232381	0.6123944		-15.3	20
Isophorone	A	50.00	47.64	0.5731082	0.5461189		-4.7	20
2-Methylphenol	A	50.00	42.87	1.109736	0.951506		-14.3	20
4-Methylphenol	A	50.00	40.49	1.058064	0.8568146		-19.0	20
Naphthalene	A	50.00	44.42	1.096682	0.9741915		-11.2	20
4-Nitroaniline	A	50.00	37.24	0.4344717	0.3236165		-25.5	20 *
3-Nitroaniline	A	50.00	40.52	0.4586814	0.371736		-19.0	20
2-Nitroaniline	A	50.00	43.89	0.2784625	0.244443		-12.2	20
Nitrobenzene	A	50.00	47.34	0.2901353	0.2747243		-5.3	20
4-Nitrophenol	A	50.00	46.47	0.1578116	0.1466657	0.05	-7.1	20
2-Nitrophenol	A	50.00	45.30	0.2316059	0.2098324		-9.4	20
N-Nitrosodiphenylamine	A	50.00	45.98	0.6423624	0.5907792		-8.0	20
N-Nitroso-di-n-propylamine	A	50.00	44.59	0.6289666	0.5608851	0.05	-10.8	20
Phenol	A	50.00	42.32	1.472951	1.246845		-15.4	20
1,2,4,5-Tetrachlorobenzene	A	50.00	53.43	0.274355	0.2931564		6.9	20
2,3,4,6-Tetrachlorophenol	A	50.00	44.44	0.3381084	0.3004878		-11.1	20
2,4,6-Trichlorophenol	A	50.00	46.25	0.4074142	0.3768375		-7.5	20
2,4,5-Trichlorophenol	A	50.00	49.18	0.4114102	0.4047015		-1.6	20
2-Fluorobiphenyl	A	50.00	44.58	1.334603	1.190041		-10.8	20
2-Fluorophenol	A	100.0	77.65	1.364172	1.059324		-22.3	20 *
Nitrobenzene-d5	A	50.00	46.85	0.3133987	0.2936441		-6.3	20
Phenol-d6	A	100.0	72.78	1.580866	1.150597		-27.2	20 *
Terphenyl-d14	A	50.00	51.87	0.8091126	0.8393391		3.7	20
2,4,6-Tribromophenol	A	100.0	85.21	0.1528243	0.1302285		-14.8	20

Column to be used to flag Response Factor and %Diff/Drift values with an asterisk

* Values outside of QC limits

CONTINUING CALIBRATION CHECK

SW8270C

Laboratory:	Empirical Laboratories, LLC	SDG:	1110003
Client:	Tetra Tech NUS, Inc. (T010)	Project:	Navy Fuel Depot CTO JM46
Instrument ID:	MS-BNA3	Calibration:	1236001
Lab File ID:	SEQ-CCV1.D	Calibration Date:	04/29/11 17:45
Sequence:	1J29315	Injection Date:	10/19/11
Lab Sample ID:	1J29315-CCV1	Injection Time:	14:39

		CONC. (ug/mL)		RESPONSE FACTOR			% DIFF / DRIFT	
COMPOUND	TYPE	STD	CCV	ICAL	CCV	MIN (#)	CCV	LIMIT (#)
Acetophenone	A	50.00	53.43	1.801986	1.925533		6.9	20
Atrazine	A	50.00	18.83	0.2344682	8.828948E-02		-62.3	20 *
Benzaldehyde	A	50.00	29.16	1.010105	0.5891775		-41.7	20 *
1,1-Biphenyl	A	50.00	48.77	1.444453	1.409038		-2.5	20
4-Bromophenyl-phenylether	A	50.00	53.13	0.2284778	0.2427768		6.3	20
Butylbenzylphthalate	A	50.00	51.74	0.5129818	0.5308173		3.5	20
Caprolactam	A	50.00	51.12	0.1128421	0.115366		2.2	20
Carbazole	A	50.00	45.33	1.044381	0.9468399		-9.3	20
4-Chloro-3-methylphenol	A	50.00	52.57	0.3113523	0.3273407		5.1	20
4-Chloroaniline	A	50.00	50.38	0.4225325	0.4257807		0.8	20
Bis(2-chloroethoxy)methane	A	50.00	46.69	0.4269873	0.3987186		-6.6	20
Bis(2-chloroethyl)ether	A	50.00	47.00	1.297842	1.220093		-6.0	20
2,2'-Oxybis-1-chloropropane	A	50.00	38.94	1.947114	1.516611		-22.1	20 *
2-Chloronaphthalene	A	50.00	54.84	1.087766	1.192956		9.7	20
2-Chlorophenol	A	50.00	46.42	1.315004	1.220867		-7.2	20
4-Chlorophenyl phenyl ether	A	50.00	54.15	0.6233489	0.6750805		8.3	20
Dibenzofuran	A	50.00	51.77	1.535116	1.589341		3.5	20
Di-n-butylphthalate	A	50.00	44.93	1.182012	1.062194		-10.1	20
3,3'-Dichlorobenzidine	A	50.00	53.13	0.4067228	0.4322003		6.3	20
2,4-Dichlorophenol	A	50.00	54.78	0.3046728	0.3337817		9.6	20
Diethylphthalate	A	50.00	52.14	1.194731	1.245893		4.3	20
2,4-Dimethylphenol	A	50.00	52.85	0.3636609	0.3844114		5.7	20
Dimethyl phthalate	A	50.00	50.85	1.24444	1.265625		1.7	20
4,6-Dinitro-2-methylphenol	A	50.00	56.45	0.1454148	0.1641638		12.9	20
2,4-Dinitrophenol	A	50.00	52.48	0.1854397	0.1946365	0.05	5.0	20
2,4-Dinitrotoluene	A	50.00	52.43	0.3929838	0.4121014		4.9	20
2,6-Dinitrotoluene	A	50.00	49.92	0.2991862	0.2986842		-0.2	20
Di-n-octylphthalate	A	50.00	56.18	1.204345	1.353306		12.4	20
Bis(2-ethylhexyl)phthalate	A	50.00	54.49	0.6793074	0.7403443		9.0	20

CONTINUING CALIBRATION CHECK

SW8270C

Laboratory:	Empirical Laboratories, LLC	SDG:	1110003
Client:	Tetra Tech NUS, Inc. (T010)	Project:	Navy Fuel Depot CTO JM46
Instrument ID:	MS-BNA3	Calibration:	1236001
Lab File ID:	SEQ-CCV1.D	Calibration Date:	04/29/11 17:45
Sequence:	1J29315	Injection Date:	10/19/11
Lab Sample ID:	1J29315-CCV1	Injection Time:	14:39

		CONC. (ug/mL)		RESPONSE FACTOR			% DIFF / DRIFT	
COMPOUND	TYPE	STD	CCV	ICAL	CCV	MIN (#)	CCV	LIMIT (#)
Hexachlorobenzene	A	50.00	51.03	0.244362	0.2493964		2.1	20
Hexachlorocyclopentadiene	A	50.00	53.27	0.3749749	0.3994725	0.05	6.5	20
Hexachloroethane	A	50.00	48.95	0.5464632	0.5350059		-2.1	20
Isophorone	A	50.00	49.17	0.7442763	0.7319247		-1.7	20
2-Methylphenol	A	50.00	49.01	1.208635	1.184689		-2.0	20
4-Methylphenol	A	50.00	50.95	1.268409	1.292417		1.9	20
Naphthalene	A	50.00	50.91	0.9958993	1.014025		1.8	20
4-Nitroaniline	A	50.00	45.24	0.3272887	0.2961039		-9.5	20
3-Nitroaniline	A	50.00	45.90	0.3230815	0.2965749		-8.2	20
2-Nitroaniline	A	50.00	47.83	0.3700237	0.3539537		-4.3	20
Nitrobenzene	A	50.00	52.48	0.4107927	0.4311726		5.0	20
4-Nitrophenol	A	50.00	47.62	0.2721678	0.2592151	0.05	-4.8	20
2-Nitrophenol	A	50.00	50.52	0.1941449	0.1961779		1.0	20
N-Nitrosodiphenylamine	A	50.00	50.68	0.6728889	0.6820356		1.4	20
N-Nitroso-di-n-propylamine	A	50.00	50.81	1.033966	1.050782	0.05	1.6	20
Phenol	A	50.00	48.53	1.687698	1.637994		-2.9	20
1,2,4,5-Tetrachlorobenzene	A	50.00	59.46	0.3352828	0.3987453		18.9	20
2,3,4,6-Tetrachlorophenol	A	50.00	48.67	0.3340715	0.3252181		-2.7	20
2,4,6-Trichlorophenol	A	50.00	48.51	0.382004	0.3706221		-3.0	20
2,4,5-Trichlorophenol	A	50.00	48.03	0.4142645	0.3979406		-3.9	20
2-Fluorobiphenyl	A	50.00	52.84	1.265417	1.337286		5.7	20
2-Fluorophenol	A	100.0	95.60	1.142171	1.09186		-4.4	20
Nitrobenzene-d5	A	50.00	51.77	0.4075494	0.4219774		3.5	20
Phenol-d6	A	100.0	96.06	1.572986	1.510981		-3.9	20
Terphenyl-d14	A	50.00	56.38	0.7462196	0.8413959		12.8	20
2,4,6-Tribromophenol	A	100.0	104.6	0.109869	0.114933		4.6	20

Column to be used to flag Response Factor and %Diff/Drift values with an asterisk

* Values outside of QC limits

ANALYSIS DATA SHEET

Blank

Laboratory: Empirical Laboratories, LLC SDG: 1110003

Client: Tetra Tech NUS, Inc. (T010) Project: Navy Fuel Depot CTO JM46

Matrix: Laboratory ID: 1J03003-BLK1 File ID: J03003B1.D

Sampled: Prepared: Analyzed: 10/05/11 10:41

Solids: Preparation: EXT_3510 Dilution:

Batch: 1J03003 Sequence: 1J27903 Calibration: 1257001 Instrument: MS-BNA1

CAS NO.	COMPOUND	CONC. (ug/L)	DL	LOD	LOQ	Q
91-94-1	3,3'-Dichlorobenzidine		1.25	2.50	5.00	U
98-86-2	Acetophenone		1.25	2.50	5.00	Y, U
1912-24-9	Atrazine		1.25	2.50	5.00	Q, Y, U
100-52-7	Benzaldehyde		1.25	2.50	5.00	Y, U
92-52-4	1,1-Biphenyl		0.500	2.50	5.00	Q, U
101-55-3	4-Bromophenyl-phenylether		1.25	2.50	5.00	U
85-68-7	Butylbenzylphthalate		1.25	2.50	5.00	Y, U
105-60-2	Caprolactam		1.25	2.50	5.00	Q, U
86-74-8	Carbazole		1.25	2.50	5.00	U
59-50-7	4-Chloro-3-methylphenol		1.25	2.50	5.00	U
106-47-8	4-Chloroaniline		1.25	2.50	5.00	U
111-91-1	Bis(2-chloroethoxy)methane		1.25	2.50	5.00	Q, U
111-44-4	Bis(2-chloroethyl)ether		1.25	2.50	5.00	U
108-60-1	2,2'-Oxybis-1-chloropropane		0.500	2.50	5.00	U
91-58-7	2-Chloronaphthalene		1.25	2.50	5.00	U
95-57-8	2-Chlorophenol		1.25	2.50	5.00	U
7005-72-3	4-Chlorophenyl phenyl ether		1.25	2.50	5.00	Q, U
132-64-9	Dibenzofuran		1.25	2.50	5.00	U
84-74-2	Di-n-butylphthalate		1.25	2.50	5.00	U
120-83-2	2,4-Dichlorophenol		0.250	2.50	5.00	U
84-66-2	Diethylphthalate		1.25	2.50	5.00	Y, U
105-67-9	2,4-Dimethylphenol		5.00	10.0	20.0	U
131-11-3	Dimethyl phthalate		1.25	2.50	5.00	U
534-52-1	4,6-Dinitro-2-methylphenol		5.00	10.0	20.0	U
51-28-5	2,4-Dinitrophenol		12.5	25.0	50.0	U
121-14-2	2,4-Dinitrotoluene		1.25	2.50	5.00	U
606-20-2	2,6-Dinitrotoluene		1.25	2.50	5.00	U
117-84-0	Di-n-octylphthalate		1.25	2.50	5.00	U
117-81-7	Bis(2-ethylhexyl)phthalate		1.25	2.50	5.00	Y, U
118-74-1	Hexachlorobenzene		1.00	2.50	5.00	U
77-47-4	Hexachlorocyclopentadiene		1.25	2.50	5.00	U
67-72-1	Hexachloroethane		1.25	2.50	5.00	U
78-59-1	Isophorone		1.25	2.50	5.00	U
95-48-7	2-Methylphenol		1.25	2.50	5.00	U
106-44-5	4-Methylphenol		1.25	2.50	5.00	U
91-20-3	Naphthalene		1.25	2.50	5.00	U
100-01-6	4-Nitroaniline		1.25	2.50	5.00	Y, U
99-09-2	3-Nitroaniline		1.25	2.50	5.00	U
88-74-4	2-Nitroaniline		5.00	10.0	20.0	Q, U
98-95-3	Nitrobenzene		1.25	2.50	5.00	U

ANALYSIS DATA SHEET

Blank

Laboratory: Empirical Laboratories, LLC SDG: 1110003

Client: Tetra Tech NUS, Inc. (T010) Project: Navy Fuel Depot CTO JM46

Matrix: Laboratory ID: 1J03003-BLK1 File ID: J03003B1.D

Sampled: Prepared: Analyzed: 10/05/11 10:41

Solids: Preparation: EXT_3510 Dilution:

Batch: 1J03003 Sequence: 1J27903 Calibration: 1257001 Instrument: MS-BNA1

CAS NO.	COMPOUND	CONC. (ug/L)	DL	LOD	LOQ	Q
100-02-7	4-Nitrophenol		5.00	10.0	20.0	U
88-75-5	2-Nitrophenol		1.25	2.50	5.00	U
86-30-6	N-Nitrosodiphenylamine		1.25	2.50	5.00	U
621-64-7	N-Nitroso-di-n-propylamine		1.25	2.50	5.00	U
108-95-2	Phenol		1.25	2.50	5.00	U
95-94-3	1,2,4,5-Tetrachlorobenzene		1.25	2.50	5.00	U
58-90-2	2,3,4,6-Tetrachlorophenol		1.25	2.50	5.00	U
88-06-2	2,4,6-Trichlorophenol		1.25	2.50	5.00	U
95-95-4	2,4,5-Trichlorophenol		0.500	2.50	5.00	U

SYSTEM MONITORING COMPOUND	ADDED (ug/L)	CONC (ug/L)	% REC	QC LIMITS	Q
2-Fluorobiphenyl	50.00	34.03	68.1	50 - 110	
2-Fluorophenol	100.0	27.80	27.8	20 - 110	Y
Nitrobenzene-d5	50.00	42.80	85.6	40 - 110	
Phenol-d6	100.0	15.43	15.4	0 - 110	Y
Terphenyl-d14	50.00	53.46	107	50 - 135	
2,4,6-Tribromophenol	100.0	77.13	77.1	40 - 125	

ANALYSIS DATA SHEET

LCS

Laboratory: Empirical Laboratories, LLC SDG: 1110003

Client: Tetra Tech NUS, Inc. (T010) Project: Navy Fuel Depot CTO JM46

Matrix: Laboratory ID: 1J03003-BS1 File ID: J03003L1.D

Sampled: Prepared: Analyzed: 10/05/11 10:07

Solids: Preparation: EXT_3510 Dilution:

Batch: 1J03003 Sequence: 1J27903 Calibration: 1257001 Instrument: MS-BNA1

CAS NO.	COMPOUND	CONC. (ug/L)	DL	LOD	LOQ	Q
91-94-1	3,3'-Dichlorobenzidine	48.35	1.25	2.50	5.00	
98-86-2	Acetophenone	39.38	1.25	2.50	5.00	Y
1912-24-9	Atrazine	67.38	1.25	2.50	5.00	Y, E L
100-52-7	Benzaldehyde	53.39	1.25	2.50	5.00	Y
92-52-4	1,1-Biphenyl	60.09	0.500	2.50	5.00	
101-55-3	4-Bromophenyl-phenylether	55.00	1.25	2.50	5.00	
85-68-7	Butylbenzylphthalate	52.97	1.25	2.50	5.00	Y
105-60-2	Caprolactam	8.473	1.25	2.50	5.00	
86-74-8	Carbazole	53.39	1.25	2.50	5.00	
59-50-7	4-Chloro-3-methylphenol	37.53	1.25	2.50	5.00	
106-47-8	4-Chloroaniline	39.46	1.25	2.50	5.00	
111-91-1	Bis(2-chloroethoxy)methane	56.94	1.25	2.50	5.00	
111-44-4	Bis(2-chloroethyl)ether	42.40	1.25	2.50	5.00	
108-60-1	2,2'-Oxybis-1-chloropropane	43.52	0.500	2.50	5.00	
91-58-7	2-Chloronaphthalene	44.27	1.25	2.50	5.00	
95-57-8	2-Chlorophenol	30.10	1.25	2.50	5.00	
7005-72-3	4-Chlorophenyl phenyl ether	64.13	1.25	2.50	5.00	
132-64-9	Dibenzofuran	52.65	1.25	2.50	5.00	
84-74-2	Di-n-butylphthalate	54.53	1.25	2.50	5.00	
120-83-2	2,4-Dichlorophenol	38.12	0.250	2.50	5.00	
84-66-2	Diethylphthalate	56.94	1.25	2.50	5.00	Y
105-67-9	2,4-Dimethylphenol	37.06	5.00	10.0	20.0	
131-11-3	Dimethyl phthalate	58.66	1.25	2.50	5.00	
534-52-1	4,6-Dinitro-2-methylphenol	36.04	5.00	10.0	20.0	
51-28-5	2,4-Dinitrophenol	31.08	12.5	25.0	50.0	I
121-14-2	2,4-Dinitrotoluene	49.39	1.25	2.50	5.00	
606-20-2	2,6-Dinitrotoluene	53.91	1.25	2.50	5.00	
117-84-0	Di-n-octylphthalate	53.38	1.25	2.50	5.00	
117-81-7	Bis(2-ethylhexyl)phthalate	48.52	1.25	2.50	5.00	Y
118-74-1	Hexachlorobenzene	50.43	1.00	2.50	5.00	
77-47-4	Hexachlorocyclopentadiene	22.54	1.25	2.50	5.00	
67-72-1	Hexachloroethane	16.12	1.25	2.50	5.00	
78-59-1	Isophorone	46.38	1.25	2.50	5.00	
95-48-7	2-Methylphenol	25.63	1.25	2.50	5.00	
106-44-5	4-Methylphenol	20.84	1.25	2.50	5.00	
91-20-3	Naphthalene	35.65	1.25	2.50	5.00	
100-01-6	4-Nitroaniline	44.11	1.25	2.50	5.00	Y
99-09-2	3-Nitroaniline	39.48	1.25	2.50	5.00	
88-74-4	2-Nitroaniline	59.04	5.00	10.0	20.0	
98-95-3	Nitrobenzene	45.92	1.25	2.50	5.00	

ANALYSIS DATA SHEET

LCS

Laboratory: Empirical Laboratories, LLC SDG: 1110003

Client: Tetra Tech NUS, Inc. (T010) Project: Navy Fuel Depot CTO JM46

Matrix: Laboratory ID: 1J03003-BS1 File ID: J03003L1.D

Sampled: Prepared: Analyzed: 10/05/11 10:07

Solids: Preparation: EXT_3510 Dilution:

Batch: 1J03003 Sequence: 1J27903 Calibration: 1257001 Instrument: MS-BNA1

CAS NO.	COMPOUND	CONC. (ug/L)	DL	LOD	LOQ	Q
100-02-7	4-Nitrophenol	10.56	5.00	10.0	20.0	I
88-75-5	2-Nitrophenol	44.94	1.25	2.50	5.00	
86-30-6	N-Nitrosodiphenylamine	44.94	1.25	2.50	5.00	
621-64-7	N-Nitroso-di-n-propylamine	45.45	1.25	2.50	5.00	
108-95-2	Phenol	10.76	1.25	2.50	5.00	
95-94-3	1,2,4,5-Tetrachlorobenzene	55.77	1.25	2.50	5.00	
58-90-2	2,3,4,6-Tetrachlorophenol	53.20	1.25	2.50	5.00	
88-06-2	2,4,6-Trichlorophenol	51.86	1.25	2.50	5.00	
95-95-4	2,4,5-Trichlorophenol	51.35	0.500	2.50	5.00	

SYSTEM MONITORING COMPOUND	ADDED (ug/L)	CONC (ug/L)	% REC	QC LIMITS	Q
2-Fluorobiphenyl	50.00	52.85	106	50 - 110	
2-Fluorophenol	100.0	30.93	30.9	20 - 110	Y
Nitrobenzene-d5	50.00	45.01	90.0	40 - 110	
Phenol-d6	100.0	18.34	18.3	0 - 110	Y
Terphenyl-d14	50.00	53.17	106	50 - 135	
2,4,6-Tribromophenol	100.0	83.27	83.3	40 - 125	

ANALYSIS DATA SHEET

Matrix Spike

Laboratory: Empirical Laboratories, LLC SDG: 1110003

Client: Tetra Tech NUS, Inc. (T010) Project: Navy Fuel Depot CTO JM46

Matrix: Laboratory ID: 1J03003-MS1 File ID: 1000312M.D

Sampled: Prepared: Analyzed: 10/05/11 17:35

Solids: Preparation: EXT_3510 Dilution:

Batch: 1J03003 Sequence: 1J27903 Calibration: 1257001 Instrument: MS-BNA1

CAS NO.	COMPOUND	CONC. (ug/L)	DL	LOD	LOQ	Q
91-94-1	3,3'-Dichlorobenzidine		1.16	2.31	4.63	U
98-86-2	Acetophenone	30.34	1.16	2.31	4.63	Y
1912-24-9	Atrazine	29.31	1.16	2.31	4.63	Q, Y
100-52-7	Benzaldehyde	32.76	1.16	2.31	4.63	Y
92-52-4	1,1-Biphenyl	37.78	0.463	2.31	4.63	Q
101-55-3	4-Bromophenyl-phenylether	44.06	1.16	2.31	4.63	
85-68-7	Butylbenzylphthalate	38.89	1.16	2.31	4.63	Y
105-60-2	Caprolactam	5.553	1.16	2.31	4.63	Q
86-74-8	Carbazole	33.87	1.16	2.31	4.63	
59-50-7	4-Chloro-3-methylphenol	24.08	1.16	2.31	4.63	
106-47-8	4-Chloroaniline	13.71	1.16	2.31	4.63	
111-91-1	Bis(2-chloroethoxy)methane	41.66	1.16	2.31	4.63	Q
111-44-4	Bis(2-chloroethyl)ether	28.86	1.16	2.31	4.63	
108-60-1	2,2'-Oxybis-1-chloropropane	34.19	0.463	2.31	4.63	
91-58-7	2-Chloronaphthalene	34.71	1.16	2.31	4.63	
95-57-8	2-Chlorophenol	19.05	1.16	2.31	4.63	
7005-72-3	4-Chlorophenyl phenyl ether	39.64	1.16	2.31	4.63	Q
132-64-9	Dibenzofuran	35.88	1.16	2.31	4.63	
84-74-2	Di-n-butylphthalate	34.42	1.16	2.31	4.63	
120-83-2	2,4-Dichlorophenol	27.91	0.231	2.31	4.63	
84-66-2	Diethylphthalate	32.09	1.16	2.31	4.63	Y
105-67-9	2,4-Dimethylphenol	30.23	4.63	9.26	18.5	
131-11-3	Dimethyl phthalate	39.85	1.16	2.31	4.63	
534-52-1	4,6-Dinitro-2-methylphenol	17.66	4.63	9.26	18.5	I
51-28-5	2,4-Dinitrophenol		11.6	23.1	46.3	U
121-14-2	2,4-Dinitrotoluene	34.41	1.16	2.31	4.63	
606-20-2	2,6-Dinitrotoluene	31.99	1.16	2.31	4.63	
117-84-0	Di-n-octylphthalate	36.47	1.16	2.31	4.63	
117-81-7	Bis(2-ethylhexyl)phthalate	40.76	1.16	2.31	4.63	Y
118-74-1	Hexachlorobenzene	39.04	0.926	2.31	4.63	
77-47-4	Hexachlorocyclopentadiene	22.14	1.16	2.31	4.63	
67-72-1	Hexachloroethane	21.47	1.16	2.31	4.63	
78-59-1	Isophorone	33.50	1.16	2.31	4.63	
95-48-7	2-Methylphenol	16.10	1.16	2.31	4.63	
106-44-5	4-Methylphenol	13.24	1.16	2.31	4.63	
91-20-3	Naphthalene	28.32	1.16	2.31	4.63	
100-01-6	4-Nitroaniline	13.91	1.16	2.31	4.63	Y
99-09-2	3-Nitroaniline	19.27	1.16	2.31	4.63	
88-74-4	2-Nitroaniline	36.07	4.63	9.26	18.5	Q
98-95-3	Nitrobenzene	40.06	1.16	2.31	4.63	

ANALYSIS DATA SHEET

Matrix Spike

Laboratory: Empirical Laboratories, LLC SDG: 1110003

Client: Tetra Tech NUS, Inc. (T010) Project: Navy Fuel Depot CTO JM46

Matrix: Laboratory ID: 1J03003-MS1 File ID: 1000312M.D

Sampled: Prepared: Analyzed: 10/05/11 17:35

Solids: Preparation: EXT_3510 Dilution:

Batch: 1J03003 Sequence: 1J27903 Calibration: 1257001 Instrument: MS-BNA1

CAS NO.	COMPOUND	CONC. (ug/L)	DL	LOD	LOQ	Q
100-02-7	4-Nitrophenol	4.743	4.63	9.26	18.5	I
88-75-5	2-Nitrophenol	31.67	1.16	2.31	4.63	
86-30-6	N-Nitrosodiphenylamine	33.40	1.16	2.31	4.63	
621-64-7	N-Nitroso-di-n-propylamine	34.88	1.16	2.31	4.63	
108-95-2	Phenol	6.694	1.16	2.31	4.63	
95-94-3	1,2,4,5-Tetrachlorobenzene	39.57	1.16	2.31	4.63	
58-90-2	2,3,4,6-Tetrachlorophenol	25.57	1.16	2.31	4.63	
88-06-2	2,4,6-Trichlorophenol	31.89	1.16	2.31	4.63	
95-95-4	2,4,5-Trichlorophenol	31.58	0.463	2.31	4.63	

SYSTEM MONITORING COMPOUND	ADDED (ug/L)	CONC (ug/L)	% REC	QC LIMITS	Q
2-Fluorobiphenyl	46.30	30.19	65.2	50 - 110	
2-Fluorophenol	92.59	18.32	19.8	20 - 110	Y
Nitrobenzene-d5	46.30	39.81	86.0	40 - 110	
Phenol-d6	92.59	11.65	12.6	0 - 110	Y
Terphenyl-d14	46.30	20.21	43.6	50 - 135	
2,4,6-Tribromophenol	92.59	51.73	55.9	40 - 125	

ANALYSIS DATA SHEET

Matrix Spike Dup

Laboratory: Empirical Laboratories, LLC SDG: 1110003

Client: Tetra Tech NUS, Inc. (T010) Project: Navy Fuel Depot CTO JM46

Matrix: Laboratory ID: 1J03003-MSD1 File ID: 1000312S.D

Sampled: Prepared: Analyzed: 10/05/11 18:09

Solids: Preparation: EXT_3510 Dilution:

Batch: 1J03003 Sequence: 1J27903 Calibration: 1257001 Instrument: MS-BNA1

CAS NO.	COMPOUND	CONC. (ug/L)	DL	LOD	LOQ	Q
91-94-1	3,3'-Dichlorobenzidine		1.16	2.31	4.63	U
98-86-2	Acetophenone	23.42	1.16	2.31	4.63	Y
1912-24-9	Atrazine	24.80	1.16	2.31	4.63	Y, Q
100-52-7	Benzaldehyde	28.29	1.16	2.31	4.63	Y
92-52-4	1,1-Biphenyl	32.94	0.463	2.31	4.63	Q
101-55-3	4-Bromophenyl-phenylether	42.62	1.16	2.31	4.63	
85-68-7	Butylbenzylphthalate	32.29	1.16	2.31	4.63	Y
105-60-2	Caprolactam	6.613	1.16	2.31	4.63	Q
86-74-8	Carbazole	29.02	1.16	2.31	4.63	
59-50-7	4-Chloro-3-methylphenol	13.64	1.16	2.31	4.63	
106-47-8	4-Chloroaniline	11.92	1.16	2.31	4.63	
111-91-1	Bis(2-chloroethoxy)methane	32.64	1.16	2.31	4.63	Q
111-44-4	Bis(2-chloroethyl)ether	25.16	1.16	2.31	4.63	
108-60-1	2,2'-Oxybis-1-chloropropane	27.37	0.463	2.31	4.63	
91-58-7	2-Chloronaphthalene	31.61	1.16	2.31	4.63	
95-57-8	2-Chlorophenol	11.66	1.16	2.31	4.63	
7005-72-3	4-Chlorophenyl phenyl ether	32.89	1.16	2.31	4.63	Q
132-64-9	Dibenzofuran	32.79	1.16	2.31	4.63	
84-74-2	Di-n-butylphthalate	30.62	1.16	2.31	4.63	
120-83-2	2,4-Dichlorophenol	14.54	0.231	2.31	4.63	
84-66-2	Diethylphthalate	24.88	1.16	2.31	4.63	Y
105-67-9	2,4-Dimethylphenol	18.07	4.63	9.26	18.5	I
131-11-3	Dimethyl phthalate	31.71	1.16	2.31	4.63	
534-52-1	4,6-Dinitro-2-methylphenol	11.00	4.63	9.26	18.5	I
51-28-5	2,4-Dinitrophenol		11.6	23.1	46.3	U
121-14-2	2,4-Dinitrotoluene	27.46	1.16	2.31	4.63	
606-20-2	2,6-Dinitrotoluene	27.42	1.16	2.31	4.63	
117-84-0	Di-n-octylphthalate	39.27	1.16	2.31	4.63	
117-81-7	Bis(2-ethylhexyl)phthalate	32.39	1.16	2.31	4.63	Y
118-74-1	Hexachlorobenzene	34.93	0.926	2.31	4.63	
77-47-4	Hexachlorocyclopentadiene	18.01	1.16	2.31	4.63	
67-72-1	Hexachloroethane	18.71	1.16	2.31	4.63	
78-59-1	Isophorone	27.51	1.16	2.31	4.63	
95-48-7	2-Methylphenol	10.79	1.16	2.31	4.63	
106-44-5	4-Methylphenol	8.195	1.16	2.31	4.63	
91-20-3	Naphthalene	23.50	1.16	2.31	4.63	
100-01-6	4-Nitroaniline	12.83	1.16	2.31	4.63	Y
99-09-2	3-Nitroaniline	11.41	1.16	2.31	4.63	
88-74-4	2-Nitroaniline	28.36	4.63	9.26	18.5	Q
98-95-3	Nitrobenzene	30.96	1.16	2.31	4.63	

ANALYSIS DATA SHEET

Matrix Spike Dup

Laboratory: Empirical Laboratories, LLC SDG: 1110003

Client: Tetra Tech NUS, Inc. (T010) Project: Navy Fuel Depot CTO JM46

Matrix: Laboratory ID: 1J03003-MSD1 File ID: 1000312S.D

Sampled: Prepared: Analyzed: 10/05/11 18:09

Solids: Preparation: EXT_3510 Dilution:

Batch: 1J03003 Sequence: 1J27903 Calibration: 1257001 Instrument: MS-BNA1

CAS NO.	COMPOUND	CONC. (ug/L)	DL	LOD	LOQ	Q
100-02-7	4-Nitrophenol		4.63	9.26	18.5	U
88-75-5	2-Nitrophenol	19.53	1.16	2.31	4.63	
86-30-6	N-Nitrosodiphenylamine	25.40	1.16	2.31	4.63	
621-64-7	N-Nitroso-di-n-propylamine	26.69	1.16	2.31	4.63	
108-95-2	Phenol	4.869	1.16	2.31	4.63	
95-94-3	1,2,4,5-Tetrachlorobenzene	30.36	1.16	2.31	4.63	
58-90-2	2,3,4,6-Tetrachlorophenol	13.20	1.16	2.31	4.63	
88-06-2	2,4,6-Trichlorophenol	19.25	1.16	2.31	4.63	
95-95-4	2,4,5-Trichlorophenol	19.06	0.463	2.31	4.63	

SYSTEM MONITORING COMPOUND	ADDED (ug/L)	CONC (ug/L)	% REC	QC LIMITS	Q
2-Fluorobiphenyl	46.30	22.11	47.7	50 - 110	
2-Fluorophenol	92.59	14.75	15.9	20 - 110	Y
Nitrobenzene-d5	46.30	28.71	62.0	40 - 110	
Phenol-d6	92.59	8.883	9.59	0 - 110	Y
Terphenyl-d14	46.30	11.56	25.0	50 - 135	
2,4,6-Tribromophenol	92.59	31.57	34.1	40 - 125	

ANALYSIS DATA SHEET

Blank

Laboratory: Empirical Laboratories, LLC SDG: 1110003

Client: Tetra Tech NUS, Inc. (T010) Project: Navy Fuel Depot CTO JM46

Matrix: Laboratory ID: 1J06004-BLK1 File ID: J06004B1.D

Sampled: Prepared: Analyzed: 10/19/11 22:16

Solids: Preparation: EXT_3510 Dilution:

Batch: 1J06004 Sequence: 1J29315 Calibration: 1236001 Instrument: MS-BNA3

CAS NO.	COMPOUND	CONC. (ug/L)	DL	LOD	LOQ	Q
98-86-2	Acetophenone		1.25	2.50	5.00	U
1912-24-9	Atrazine		1.25	2.50	5.00	Y, U
100-52-7	Benzaldehyde		1.25	2.50	5.00	Y, U
92-52-4	1,1-Biphenyl		0.500	2.50	5.00	U
101-55-3	4-Bromophenyl-phenylether		1.25	2.50	5.00	U
85-68-7	Butylbenzylphthalate		1.25	2.50	5.00	U
105-60-2	Caprolactam		1.25	2.50	5.00	Q, U
86-74-8	Carbazole		1.25	2.50	5.00	U
59-50-7	4-Chloro-3-methylphenol		1.25	2.50	5.00	U
106-47-8	4-Chloroaniline		1.25	2.50	5.00	U
111-91-1	Bis(2-chloroethoxy)methane		1.25	2.50	5.00	U
111-44-4	Bis(2-chloroethyl)ether		1.25	2.50	5.00	U
108-60-1	2,2'-Oxybis-1-chloropropane		0.500	2.50	5.00	Y, U
91-58-7	2-Chloronaphthalene		1.25	2.50	5.00	U
95-57-8	2-Chlorophenol		1.25	2.50	5.00	U
7005-72-3	4-Chlorophenyl phenyl ether		1.25	2.50	5.00	U
132-64-9	Dibenzofuran		1.25	2.50	5.00	U
84-74-2	Di-n-butylphthalate		1.25	2.50	5.00	U
91-94-1	3,3'-Dichlorobenzidine		1.25	2.50	5.00	U
120-83-2	2,4-Dichlorophenol		0.250	2.50	5.00	U
84-66-2	Diethylphthalate		1.25	2.50	5.00	U
105-67-9	2,4-Dimethylphenol		5.00	10.0	20.0	U
131-11-3	Dimethyl phthalate		1.25	2.50	5.00	U
534-52-1	4,6-Dinitro-2-methylphenol		5.00	10.0	20.0	U
51-28-5	2,4-Dinitrophenol		12.5	25.0	50.0	X, Q, U
121-14-2	2,4-Dinitrotoluene		1.25	2.50	5.00	U
606-20-2	2,6-Dinitrotoluene		1.25	2.50	5.00	U
117-84-0	Di-n-octylphthalate		1.25	2.50	5.00	U
117-81-7	Bis(2-ethylhexyl)phthalate		1.25	2.50	5.00	U
118-74-1	Hexachlorobenzene		1.00	2.50	5.00	U
77-47-4	Hexachlorocyclopentadiene		1.25	2.50	5.00	Q, U
67-72-1	Hexachloroethane		1.25	2.50	5.00	Q, U
78-59-1	Isophorone		1.25	2.50	5.00	U
95-48-7	2-Methylphenol		1.25	2.50	5.00	U
106-44-5	4-Methylphenol		1.25	2.50	5.00	U
91-20-3	Naphthalene		1.25	2.50	5.00	U
100-01-6	4-Nitroaniline		1.25	2.50	5.00	U
99-09-2	3-Nitroaniline		1.25	2.50	5.00	U
88-74-4	2-Nitroaniline		5.00	10.0	20.0	U
98-95-3	Nitrobenzene		1.25	2.50	5.00	U

ANALYSIS DATA SHEET

Blank

Laboratory: Empirical Laboratories, LLC SDG: 1110003

Client: Tetra Tech NUS, Inc. (T010) Project: Navy Fuel Depot CTO JM46

Matrix: Laboratory ID: 1J06004-BLK1 File ID: J06004B1.D

Sampled: Prepared: Analyzed: 10/19/11 22:16

Solids: Preparation: EXT_3510 Dilution:

Batch: 1J06004 Sequence: 1J29315 Calibration: 1236001 Instrument: MS-BNA3

CAS NO.	COMPOUND	CONC. (ug/L)	DL	LOD	LOQ	Q
100-02-7	4-Nitrophenol		5.00	10.0	20.0	U
88-75-5	2-Nitrophenol		1.25	2.50	5.00	U
86-30-6	N-Nitrosodiphenylamine		1.25	2.50	5.00	U
621-64-7	N-Nitroso-di-n-propylamine		1.25	2.50	5.00	U
108-95-2	Phenol		1.25	2.50	5.00	U
95-94-3	1,2,4,5-Tetrachlorobenzene		1.25	2.50	5.00	U
58-90-2	2,3,4,6-Tetrachlorophenol		1.25	2.50	5.00	U
88-06-2	2,4,6-Trichlorophenol		1.25	2.50	5.00	U
95-95-4	2,4,5-Trichlorophenol		0.500	2.50	5.00	U

SYSTEM MONITORING COMPOUND	ADDED (ug/L)	CONC (ug/L)	% REC	QC LIMITS	Q
2-Fluorobiphenyl	50.00	36.77	73.5	50 - 110	
2-Fluorophenol	100.0	29.48	29.5	20 - 110	
Nitrobenzene-d5	50.00	38.14	76.3	40 - 110	
Phenol-d6	100.0	16.16	16.2	0 - 110	
Terphenyl-d14	50.00	46.34	92.7	50 - 135	
2,4,6-Tribromophenol	100.0	87.00	87.0	40 - 125	

ANALYSIS DATA SHEET

LCS

Laboratory: Empirical Laboratories, LLC SDG: 1110003

Client: Tetra Tech NUS, Inc. (T010) Project: Navy Fuel Depot CTO JM46

Matrix: Laboratory ID: 1J06004-BS1 File ID: J06004L1.D

Sampled: Prepared: Analyzed: 10/19/11 22:51

Solids: Preparation: EXT_3510 Dilution:

Batch: 1J06004 Sequence: 1J29315 Calibration: 1236001 Instrument: MS-BNA3

CAS NO.	COMPOUND	CONC. (ug/L)	DL	LOD	LOQ	Q
98-86-2	Acetophenone	36.85	1.25	2.50	5.00	S
1912-24-9	Atrazine	43.11	1.25	2.50	5.00	S, Y
100-52-7	Benzaldehyde	35.89	1.25	2.50	5.00	S, Y
92-52-4	1,1-Biphenyl	38.27	0.500	2.50	5.00	S
101-55-3	4-Bromophenyl-phenylether	46.82	1.25	2.50	5.00	S
85-68-7	Butylbenzylphthalate	53.44	1.25	2.50	5.00	S
105-60-2	Caprolactam	6.811	1.25	2.50	5.00	S
86-74-8	Carbazole	39.47	1.25	2.50	5.00	S
59-50-7	4-Chloro-3-methylphenol	35.47	1.25	2.50	5.00	S
106-47-8	4-Chloroaniline	26.25	1.25	2.50	5.00	S
111-91-1	Bis(2-chloroethoxy)methane	44.33	1.25	2.50	5.00	S
111-44-4	Bis(2-chloroethyl)ether	37.08	1.25	2.50	5.00	S
108-60-1	2,2'-Oxybis-1-chloropropane	33.76	0.500	2.50	5.00	S, Y
91-58-7	2-Chloronaphthalene	36.40	1.25	2.50	5.00	S
95-57-8	2-Chlorophenol	23.98	1.25	2.50	5.00	S
7005-72-3	4-Chlorophenyl phenyl ether	47.07	1.25	2.50	5.00	S
132-64-9	Dibenzofuran	42.44	1.25	2.50	5.00	S
84-74-2	Di-n-butylphthalate	44.90	1.25	2.50	5.00	S
91-94-1	3,3'-Dichlorobenzidine	38.70	1.25	2.50	5.00	S
120-83-2	2,4-Dichlorophenol	37.11	0.250	2.50	5.00	S
84-66-2	Diethylphthalate	49.84	1.25	2.50	5.00	S
105-67-9	2,4-Dimethylphenol	33.34	5.00	10.0	20.0	S
131-11-3	Dimethyl phthalate	47.55	1.25	2.50	5.00	S
534-52-1	4,6-Dinitro-2-methylphenol	22.03	5.00	10.0	20.0	S
51-28-5	2,4-Dinitrophenol		12.5	25.0	50.0	S, X, U
121-14-2	2,4-Dinitrotoluene	45.68	1.25	2.50	5.00	S
606-20-2	2,6-Dinitrotoluene	43.16	1.25	2.50	5.00	S
117-84-0	Di-n-octylphthalate	59.26	1.25	2.50	5.00	S
117-81-7	Bis(2-ethylhexyl)phthalate	49.83	1.25	2.50	5.00	S
118-74-1	Hexachlorobenzene	44.30	1.00	2.50	5.00	S
77-47-4	Hexachlorocyclopentadiene	4.643	1.25	2.50	5.00	S, I
67-72-1	Hexachloroethane	14.42	1.25	2.50	5.00	S
78-59-1	Isophorone	36.26	1.25	2.50	5.00	S
95-48-7	2-Methylphenol	21.64	1.25	2.50	5.00	S
106-44-5	4-Methylphenol	21.09	1.25	2.50	5.00	S
91-20-3	Naphthalene	35.06	1.25	2.50	5.00	S
100-01-6	4-Nitroaniline	32.38	1.25	2.50	5.00	S
99-09-2	3-Nitroaniline	26.93	1.25	2.50	5.00	S
88-74-4	2-Nitroaniline	39.22	5.00	10.0	20.0	S
98-95-3	Nitrobenzene	43.34	1.25	2.50	5.00	S

ANALYSIS DATA SHEET

LCS

Laboratory: Empirical Laboratories, LLC SDG: 1110003

Client: Tetra Tech NUS, Inc. (T010) Project: Navy Fuel Depot CTO JM46

Matrix: Laboratory ID: 1J06004-BS1 File ID: J06004L1.D

Sampled: Prepared: Analyzed: 10/19/11 22:51

Solids: Preparation: EXT_3510 Dilution:

Batch: 1J06004 Sequence: 1J29315 Calibration: 1236001 Instrument: MS-BNA3

CAS NO.	COMPOUND	CONC. (ug/L)	DL	LOD	LOQ	Q
100-02-7	4-Nitrophenol	10.46	5.00	10.0	20.0	S, I
88-75-5	2-Nitrophenol	34.56	1.25	2.50	5.00	S
86-30-6	N-Nitrosodiphenylamine	30.67	1.25	2.50	5.00	S
621-64-7	N-Nitroso-di-n-propylamine	39.37	1.25	2.50	5.00	S
108-95-2	Phenol	10.08	1.25	2.50	5.00	S
95-94-3	1,2,4,5-Tetrachlorobenzene	43.86	1.25	2.50	5.00	S
58-90-2	2,3,4,6-Tetrachlorophenol	35.89	1.25	2.50	5.00	S
88-06-2	2,4,6-Trichlorophenol	37.28	1.25	2.50	5.00	S
95-95-4	2,4,5-Trichlorophenol	35.23	0.500	2.50	5.00	S

SYSTEM MONITORING COMPOUND	ADDED (ug/L)	CONC (ug/L)	% REC	QC LIMITS	Q
2-Fluorobiphenyl	50.00	40.07	80.1	50 - 110	S
2-Fluorophenol	100.0	31.38	31.4	20 - 110	S
Nitrobenzene-d5	50.00	38.58	77.2	40 - 110	S
Phenol-d6	100.0	17.23	17.2	0 - 110	S
Terphenyl-d14	50.00	54.10	108	50 - 135	S
2,4,6-Tribromophenol	100.0	82.09	82.1	40 - 125	S

HOLDING TIME SUMMARY

SW8270C

Laboratory: Empirical Laboratories, LLC SDG: 1110003

Client: Tetra Tech NUS, Inc. (T010) Project: Navy Fuel Depot CTO JM46

Sample Name	Date Collected	Date Received	Date Prepared	Days to Prep	Max Days to Prep	Date Analyzed	Days to Analysis	Max Days to Analysis	Q
FLC-4-MW01-092911	09/29/11 08:20	10/01/11 09:10	10/03/11 12:10	4.20	7.00	10/05/11 13:00	2.03	40.00	
FLC-4-MW02-092911	09/29/11 09:30	10/01/11 09:10	10/03/11 12:10	4.15	7.00	10/05/11 13:34	2.06	40.00	
FLC-5-MW05-092911	09/29/11 11:25	10/01/11 09:10	10/03/11 12:10	4.07	7.00	10/05/11 14:09	2.08	40.00	
FLC-5-MW04-092911	09/29/11 12:50	10/01/11 09:10	10/03/11 12:10	4.01	7.00	10/05/11 14:43	2.11	40.00	
FLC-5-MW03-092911	09/29/11 14:00	10/01/11 09:10	10/03/11 12:10	3.97	7.00	10/05/11 15:18	2.13	40.00	
FLC-5-MW03-092911	09/29/11 14:00	10/01/11 09:10	10/06/11 12:20	6.97	7.00	10/19/11 23:27	13.46	40.00	
FLC-RB02-092911	09/29/11 14:35	10/01/11 09:10	10/03/11 12:10	3.94	7.00	10/05/11 15:52	2.15	40.00	
FLC-5-MW01-092911	09/30/11 09:15	10/01/11 09:10	10/03/11 12:10	3.16	7.00	10/05/11 16:27	2.18	40.00	
FLC-5-MW01-092911	09/30/11 09:15	10/01/11 09:10	10/06/11 12:20	6.17	7.00	10/20/11 00:02	13.49	40.00	
FLC-5-MW02-092911	09/30/11 11:05	10/01/11 09:10	10/03/11 12:10	3.09	7.00	10/05/11 17:01	2.20	40.00	

Data for SW8270C
Supporting Raw Data / Logs

Sequence Name: C:\HPCHEM\1\SEQUENCE\042911B3.S
Comment: epa8270c
Operator: MEC
Data Path: C:\HPCHEM\1\DATA\042911b3\
Pre-Seq Cmd:
Post-Seq Cmd:

7696

5/2/4

Method Sections To Run
(X) Full Method
( ) Reprocessing Only

On A Barcode Mismatch
(X) Inject Anyway
( ) Don't Inject

Line	Type	Vial	DataFile	Method	Sample Name
1	DFTPP	1	SEQ-TUN1	DFTPPBN3	DF0429B1;;;;;;~~11D0633~~ 11D0663
2	Calibration	2	SEQ-CAL1	IXBN3	CAL5.0PPM;;;;;;11D0216
3	Calibration	3	SEQ-CAL2	IXBN3	CAL10.0PPM;;;;;;11D0217
4	Calibration	4	SEQ-CAL3	IXBN3	CAL20.0PPM;;;;;;11D0218
5	Calibration	5	SEQ-CAL4	IXBN3	CAL40.0PPM;;;;;;11D0219
6	Calibration	6	SEQ-CAL5	IXBN3	CAL50.0PPM;;;;;;11D0220
7	Calibration	7	SEQ-CAL6	IXBN3	CAL60.0PPM;;;;;;11D0221
8	Calibration	8	SEQ-CAL7	IXBN3	CAL80.0PPM;;;;;;11D0222
9	Calibration	9	SEQ-CAL8	IXBN3	CAL100.0PPM;;;;;;11D0223
10	Calibration	10	SEQ-CAL9	IXBN3	CAL5.0PPM;;;;;;11A0534
11	Calibration	11	SEQ-CALA	IXBN3	CAL10.0PPM;;;;;;11A0537
12	Calibration	12	SEQ-CALB	IXBN3	CAL20.0PPM;;;;;;11A0538
13	Calibration	13	SEQ-CALC	IXBN3	CAL40.0PPM;;;;;;11A0539
14	Calibration	14	SEQ-CALD	IXBN3	CAL50.0PPM;;;;;;11A0540
15	Calibration	15	SEQ-CALE	IXBN3	CAL60.0PPM;;;;;;11A0541
16	Calibration	16	SEQ-CALF	IXBN3	CAL80.0PPM;;;;;;11A0542
17	Calibration	17	SEQ-CALG	IXBN3	CAL100.0PPM;;;;;;11A0543
18	DFTPP	1	SEQ-TUN2	DFTPPBN3	DF0429B2;;;;;;~~11D0633~~ 11D0663

Sequence Name: C:\HPCHEM\1\SEQUENCE\043011B3.S
Comment: epa8270c
Operator: MEC
Data Path: C:\HPCHEM\1\DATA\043011b3\
Pre-Seq Cmd:
Post-Seq Cmd:

7697

Method Sections To Run
(X) Full Method
( ) Reprocessing Only

On A Barcode Mismatch
(X) Inject Anyway
( ) Don't Inject

5/2

Line	Type	Vial	DataFile	Method	Sample Name
1	DFTPP	1	SEQ-TUN1	DFTPPBN3	DF0430B1;;;;;~~11D0633~~ 11D0663
2	Sample	2	SEQ-ICV1	IXBN3	ICV-50PPM;;;;;11A0288
3	Sample	3	SEQ-ICV2	IXBN3	ICV-50PPM;;;;;11A0290
4	Sample	4	SEQ-ICV3	IXBN3	ICV-50PPM;;;;;10L0768 } Not needed.
5	Sample	5	SEQ-ICV4	IXBN3	ICV-50PPM;;;;;11D0227 }
6	Sample	6	SEQ-ICV5	IXBN3	ICV-50PPM;;;;;11D0228

Last Modified: Sun May 01 16:36:02 2011 Page: 1

Sequence: C:\HPCHEM\1\SEQUENCE\050211B3.S
Comment: epa8270c
Operator: MEC
Data Path: C:\HPCHEM\1\DATA\050211b3\
Pre-Seq Cmd:
Post-Seq Cmd:

7699

5/3/11

Method Sections To Run
(X) Full Method
( ) Reprocessing Only

On A Barcode Mismatch
(X) Inject Anyway
( ) Don't Inject

Line	Type	Vial	DataFile	Method	Sample Name
1	DFTPP	1	SEQ-TUN1	DFTPPBN3	DF0502B1;;;;;;11D0663
2	Calibration	2	SEQ-ICV4	IXBN3	ICV50PPM;;;;;;11E0016
3	DailyCal	3	SEQ-CCV1	IXBN3	CCV50PPM;;;;;;11E0020
4	Blank	4	D28006B1	IXBN3	1D28006-BLK1;;1000;1000;UG/L;
5	Spike	5	D28006L1	IXBN3	1D28006-BS1;;1000;1000;UG/L;;
6	Sample	6	0424216D	IXBN3	1104242-16;10;1000;1000;UG/L;
7	Sample	7	0428002	IXBN3	1104280-02;;1000;1000;UG/L;;2
8	Sample	8	0428003	IXBN3	1104280-03;;1000;1000;UG/L;;2
9	Sample	9	0428004	IXBN3	1104280-04;;1000;1000;UG/L;;2
10	Sample	10	0428005	IXBN3	1104280-05;;1000;1000;UG/L;;2
11	Spike	11	0428005M	IXBN3	1D28006-MS1;;1000;1000;UG/L;;
12	Duplicate	12	0428005S	IXBN3	1D28006-MSD1;;1000;1000;UG/L;
13	Sample	13	0428006	IXBN3	1104280-06;;1000;1000;UG/L;;2
14	Sample	14	0428101	IXBN3	1104281-01;;1000;1000;UG/L;;2
15	Sample	15	0428102	IXBN3	1104281-02;;1000;1000;UG/L;;2
16	Sample	16	0428103	IXBN3	1104281-03;;1000;1000;UG/L;;2
17	Sample	17	0428104	IXBN3	1104281-04;;1000;1000;UG/L;;2
18	Sample	18	0428105	IXBN3	1104281-05;;1000;1000;UG/L;;2
19	Sample	19	0428106	IXBN3	1104281-06;;1000;1000;UG/L;;2
20	Sample	20	0428107	IXBN3	1104281-07;;1000;1000;UG/L;;2
21	Spike	21	0428107M	IXBN3	1D28006-MS2;;1000;1000;UG/L;;
22	Duplicate	22	0428107S	IXBN3	1D28006-MSD2;;1000;1000;UG/L;
23	DFTPP	1	SEQ-TUN2	DFTPPBN3	DF0502B2;;;;;;11D0663
24	DailyCal	3	SEQ-CCV2	IXBN3	CCV50PPM;;;;;;11E0020
25	Sample	23	0428108	IXBN3	1104281-08;;1000;1000;UG/L;;2
26	Sample	24	0428109	IXBN3	1104281-09;;1000;1000;UG/L;;2
27	Sample	25	0428110	IXBN3	1104281-10;;1000;1000;UG/L;;2
28	Sample	26	0428111	IXBN3	1104281-11;;1000;1000;UG/L;;2
29	Sample	27	0428112	IXBN3	1104281-12;;1000;1000;UG/L;;2
30	Sample	28	0428601	IXBN3	1104286-01;;1000;1000;UG/L;;2
31	Sample	29	0428603	IXBN3	1104286-03;;1000;1000;UG/L;;2
32	Sample	30	0428605	IXBN3	1104286-05;;1000;1000;UG/L;;2

Last Modified: Tue May 03 09:35:26 2011

Data File: \\ELABNSH05\TARGET\chem\bna3.i\042911b3.b\SEQ-TUN1.D

Date : 29-APR-2011 17:21

Client ID: 50ppm DFTPP

Instrument: bna3.i

Sample Info: DF0429B1;;;;;;11D0633

Operator: MEC

Column phase: DB5-MS

Column diameter: 0.25

Data File: SEQ-TUN1.D

Spectrum: Avg. Scans 477-479 (11.44), Background Scan 472

Location of Maximum: 198.00

Number of points: 349

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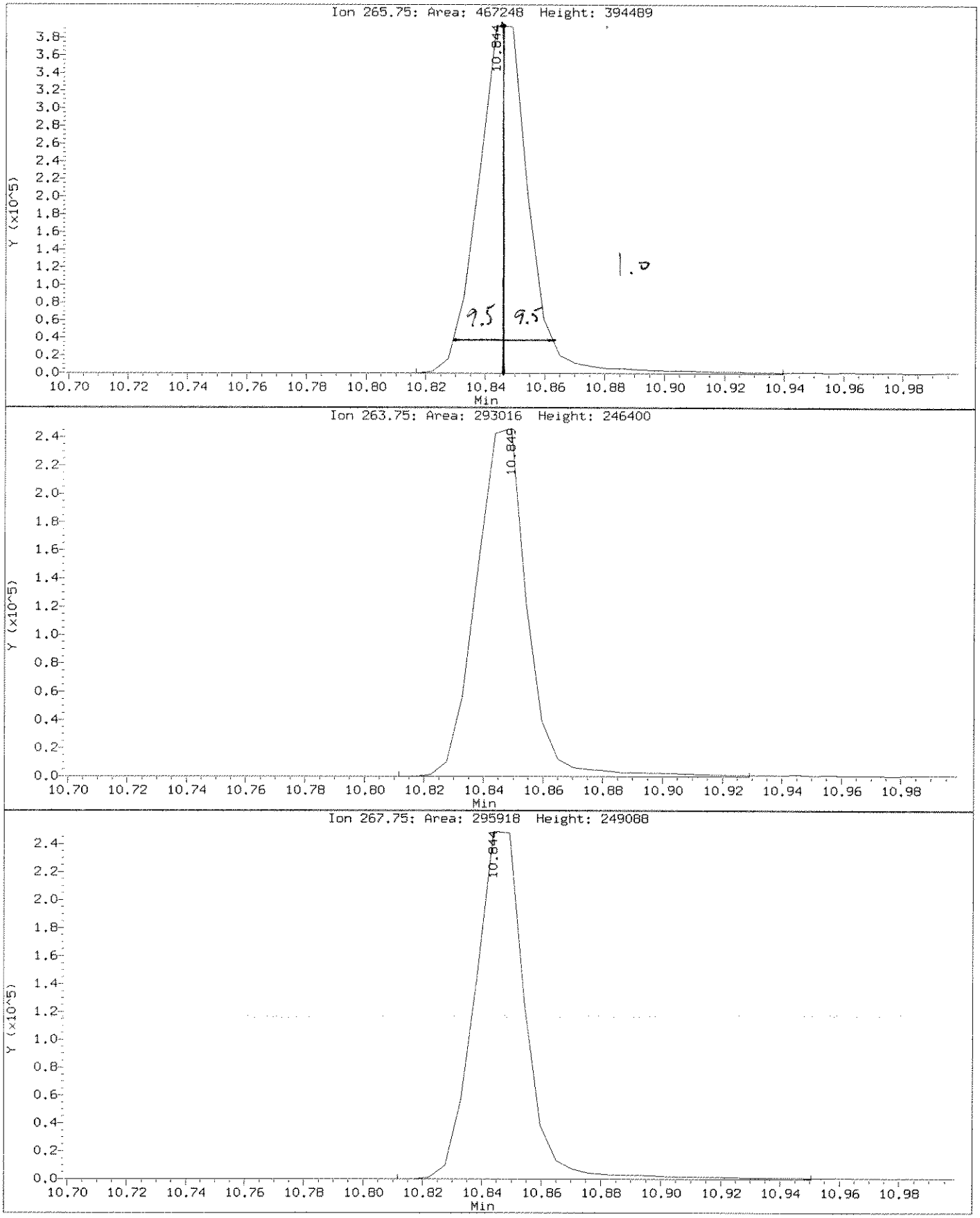
112.00	2055	204.00	12891	296.00	20496	433.70	147
113.00	584	205.00	21680	297.00	2972	434.70	152
114.00	262	206.00	84328	298.00	283	435.40	211
115.10	181	207.10	11030	299.90	129	436.10	138
116.10	2948	208.10	3014	301.00	403	437.00	200
117.00	36856	209.00	823	302.00	435	437.60	186
118.00	2922	210.10	1362	303.00	2600	438.20	239
119.10	270	210.40	1365	304.00	573	438.70	101
120.00	789	211.10	3346	305.00	241	439.50	211
122.00	3000	212.00	555	305.80	54	441.00	25216
123.00	5163	213.00	292	308.00	305	442.00	168768
124.00	2482	214.20	82	309.00	205	443.00	32424
125.00	2445	215.00	939	310.00	232	444.00	3404
127.00	194560	216.00	1728	310.80	86	444.90	138
128.00	14908	217.00	22056	312.00	50	462.60	84
129.00	74816	218.00	2848	312.20	53		
130.00	5905	219.10	523	312.80	205		
130.90	1336	219.80	338	314.00	913		

Data File: \\ELABNSH05\TARGET\chem\bna3.i\042911b3.b\SEQ-TUN1ex.D
Injection Date: 29-APR-2011 17:21
Instrument: bna3.i
Client Sample ID: 50ppm DFTPP

Compound: Pentachlorophenol
CAS Number: 87-86-5



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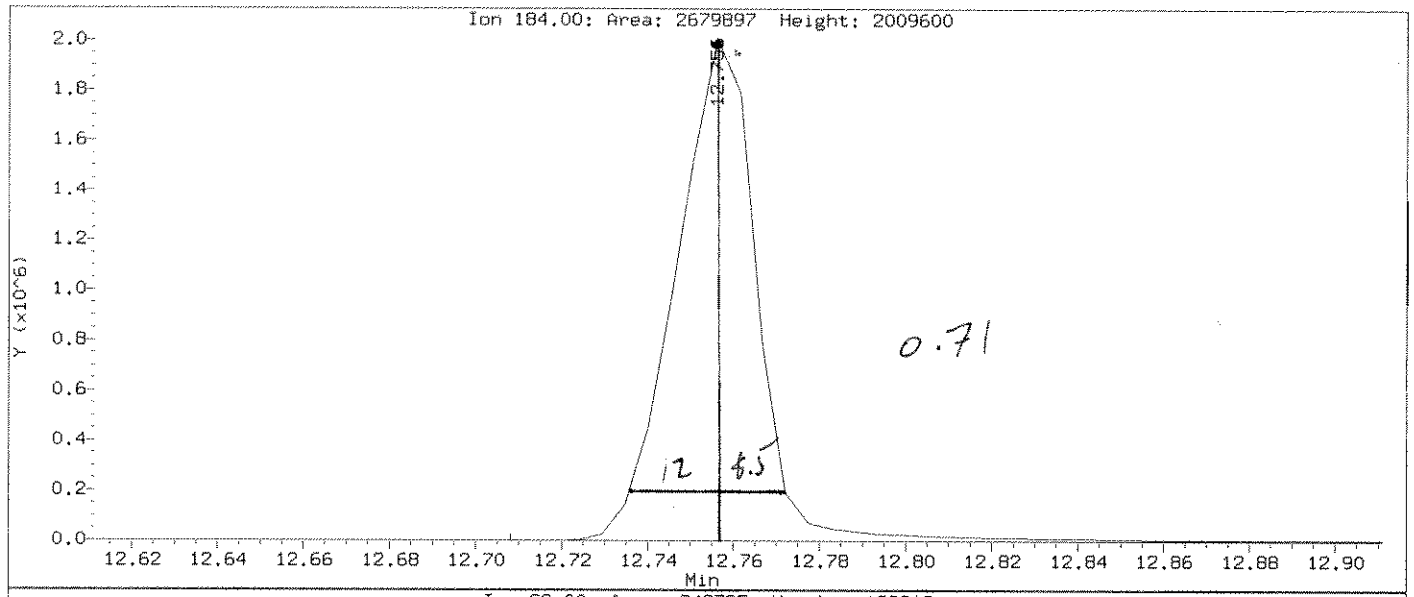
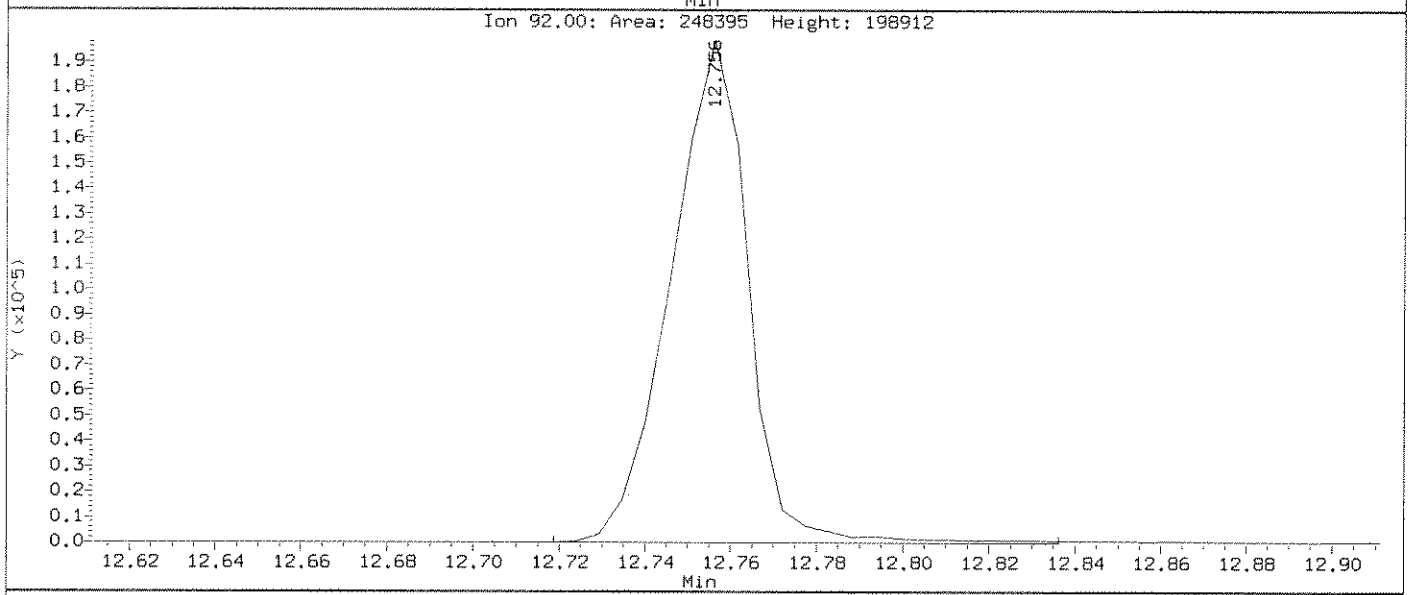
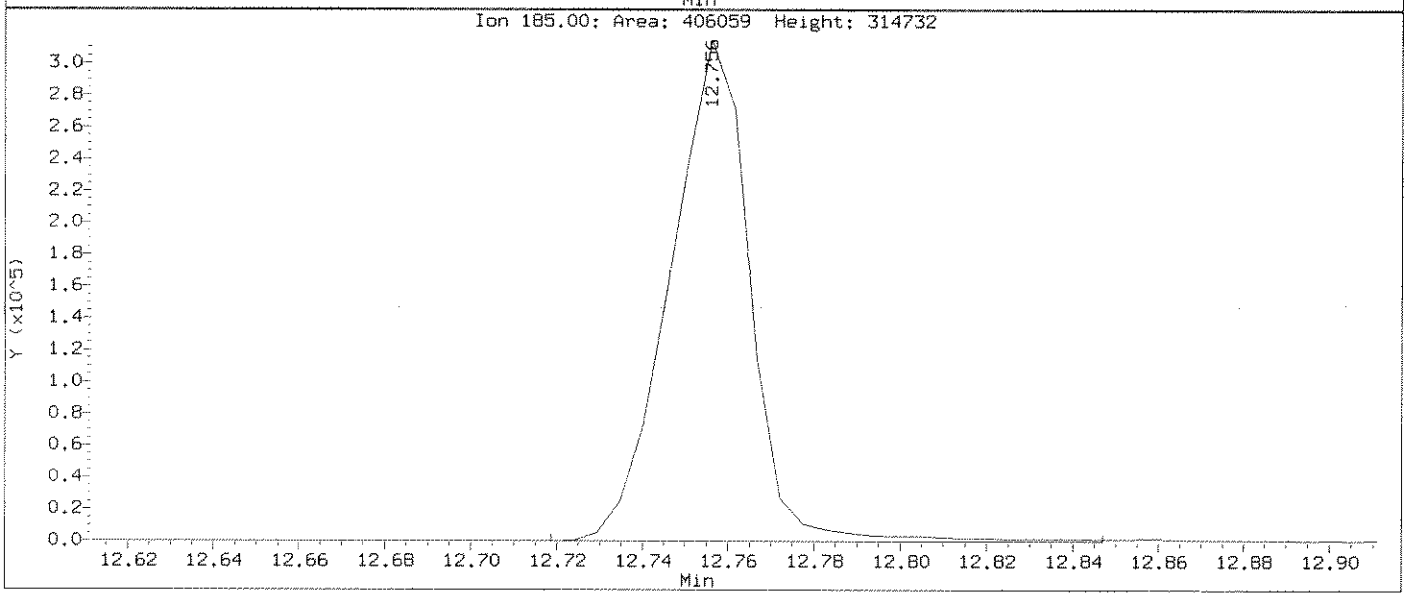
Injection Date: 29-APR-2011 17:21
Instrument: bna3.i
Client Sample ID: 50ppm DFTPP

Compound: Benzidine
CAS Number: 92-87-5







Data File: \\ELABNSH05\TARGET\chem\bna3.i\042911b3.b\SEQ-TUN1ex.D
Report Date: 29-Apr-2011 17:41

Laboratory Name
*

Data file : \\ELABNSH05\TARGET\chem\bna3.i\042911b3.b\SEQ-TUN1ex.D
Lab Smp Id: SEQ-TUN1 Client Smp ID: 50ppm DFTPP
Inj Date : 29-APR-2011 17:21 MS Autotune Date: 07-SEP-2010 05:33
Operator : MEC Inst ID: bna3.i
Smp Info : DF0429B1;;;;;;11D0633
Misc Info : ;;;;;;;all.sub;
Comment :
Method : \\ELABNSH05\TARGET\chem\bna3.i\042911b3.b\dftppbn3ex.m
Meth Date : 29-Apr-2011 16:48 mcobb Quant Type: ESTD
Cal Date : Cal File:
Als bottle: 1 QC Sample: DFTPP
Dil Factor: 1.00000
Integrator: HP RTE Compound Sublist: all.sub
Target Version: 4.04
Processing Host: TARGET09_VM

Compounds	QUANT SIG MASS	RT	EXP RT	DLT RT	RESPONSE	CONCENTRATIONS ON-COLUMN (ng/ul)	FINAL (ng/ul)
1 Pentachlorophenol	266	10.843	10.849	-0.006	467248		
2 Benzidine	184	12.756	12.761	-0.005	2679897		
4 4,4'-DDD	235	13.402	13.402	0.000	2160		
5 4,4'-DDT	235	13.771	13.776	-0.005	1087343		

DDT breakdown = $\frac{2160}{1087343 + 2160} \times 100 =$ ~~1.98%~~ 0.199 %

(1089503)

Data File: \\ELABNSH05\TARGET\chem\bna3.i\043011b3.b\SEQ-TUN1.D

Date : 30-APR-2011 14:42

Client ID: 50ppm DFTPP

Instrument: bna3.i

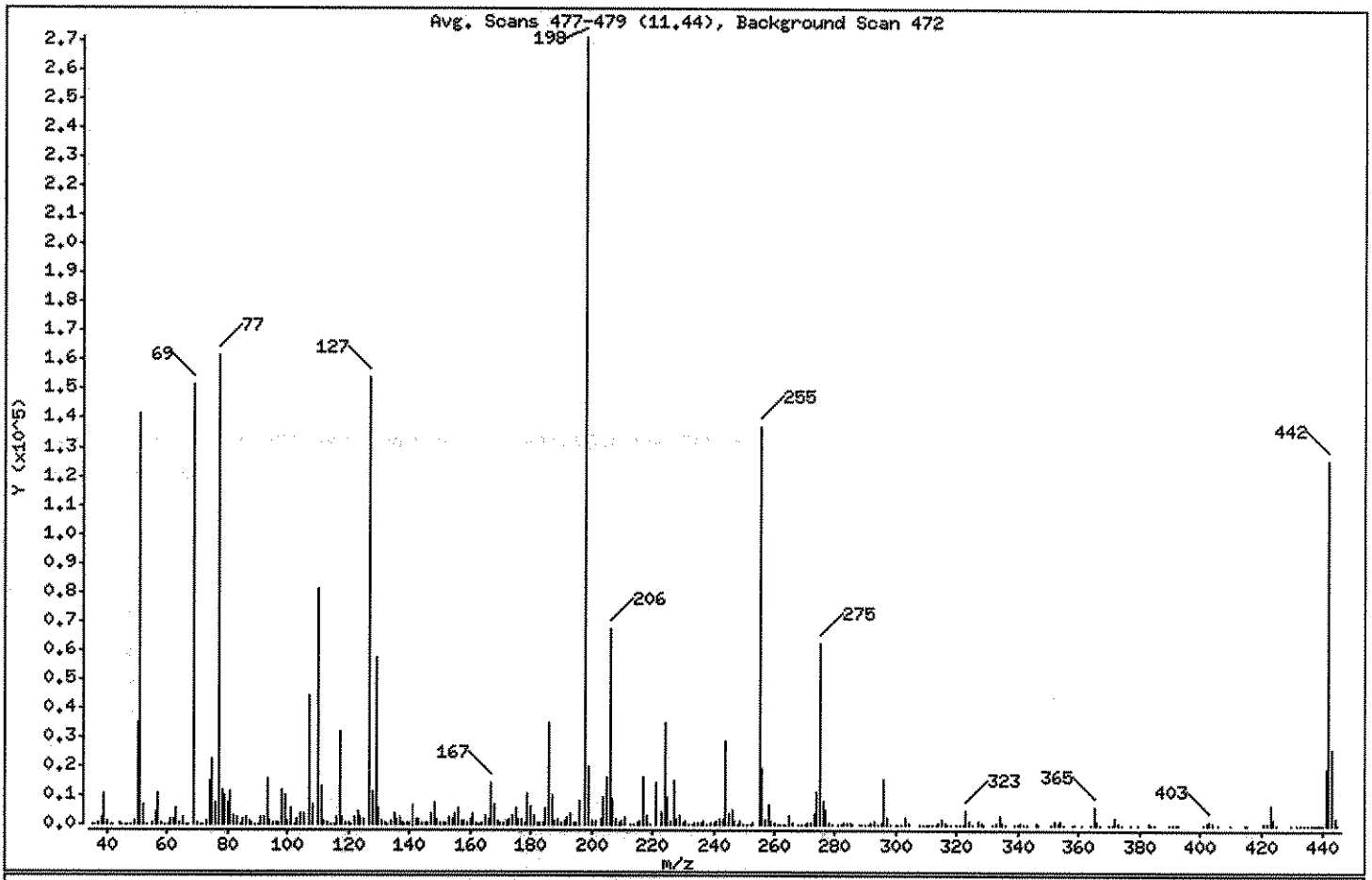
Sample Info: DF0430B1;;;;;;11D0633

Operator: MEC

Column phase: DB5-MS

Column diameter: 0.25

1 dftpp



m/e	ION ABUNDANCE CRITERIA	% RELATIVE ABUNDANCE
198	Base Peak, 100% relative abundance	100.00
51	30.00 - 60.00% of mass 198	52.24
68	Less than 2.00% of mass 69	0.00 (0.00)
69	Mass 69 relative abundance	55.80
70	Less than 2.00% of mass 69	0.23 (0.42)
127	40.00 - 60.00% of mass 198	56.84
197	Less than 1.00% of mass 198	0.00
199	5.00 - 9.00% of mass 198	7.25
275	10.00 - 30.00% of mass 198	22.93
365	Greater than 1.00% of mass 198	2.34
441	Present, but less than mass 443	7.22
442	Greater than 40.00% of mass 198	46.45
443	17.00 - 23.00% of mass 442	9.71 (20.90)

5/1/11

GLQ 5/6/11

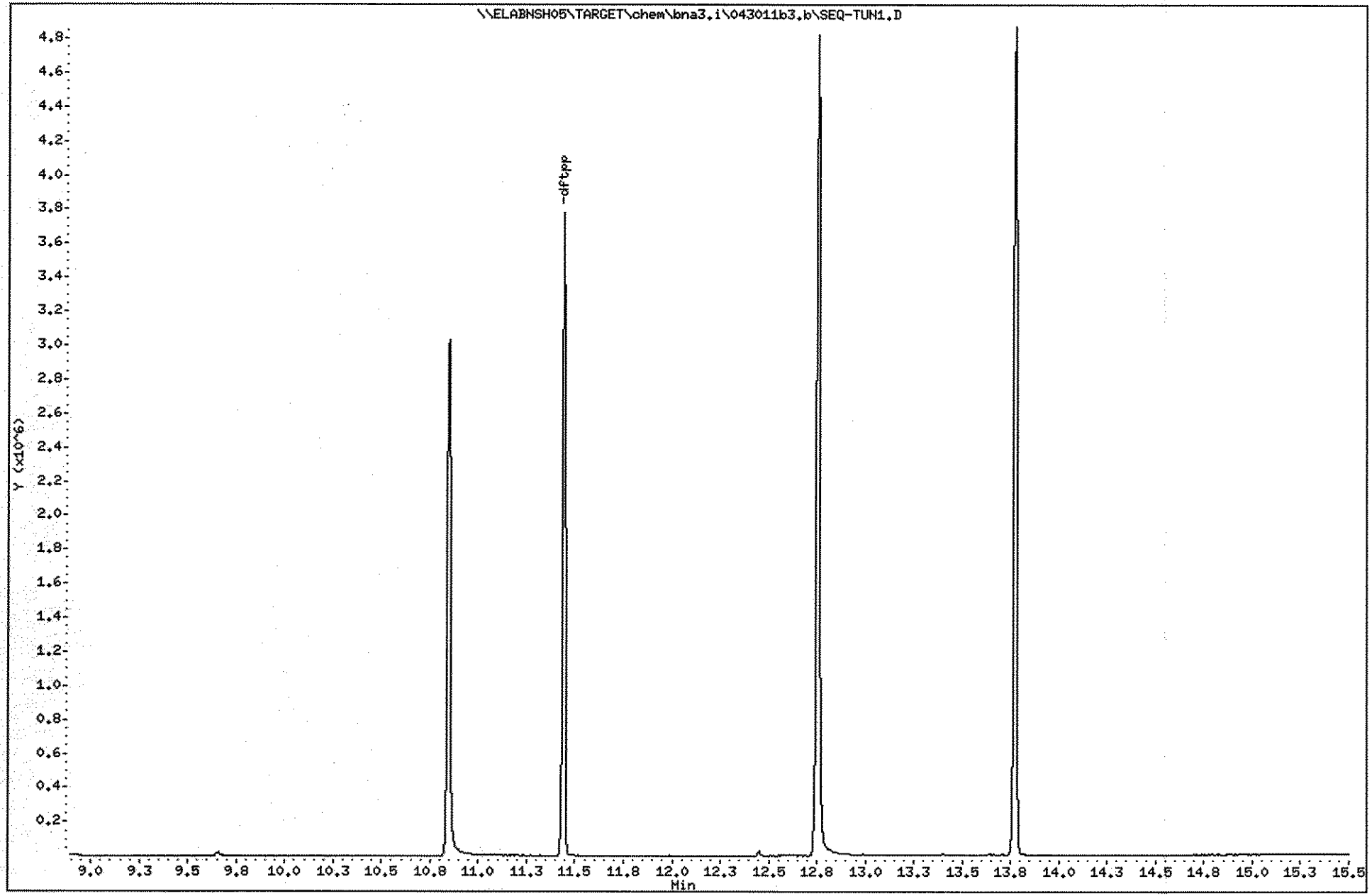
Data File: \\ELABNSH05\TARGET\chem\bna3.i\043011b3.b\SEQ-TUN1.D
Date : 30-APR-2011 14:42
Client ID: 50ppm DFTPP
Sample Info: DF0430B1;;;;;;11D0633

Instrument: bna3.i

Operator: MEC

Column phase: DB5-MS

Column diameter: 0.25



Data File: \\ELABNSH05\TARGET\chem\bna3.i\043011b3.b\SEQ-TUN1.D

Date : 30-APR-2011 14:42

Client ID: 50ppm DFTPP

Instrument: bna3.i

Sample Info: DF0430B1;;;;;;11D0633

Operator: MEC

Column phase: DB5-MS

Column diameter: 0.25

Data File: SEQ-TUN1.D

Spectrum: Avg. Scans 477-479 (11.44), Background Scan 472

Location of Maximum: 198.00

Number of points: 347

m/z	Y	m/z	Y	m/z	Y	m/z	Y
35.10	144	128.00	11351	216.00	1288	312.10	101
36.10	229	129.00	57616	217.00	16176	313.10	160
37.10	665	130.00	5571	218.00	2843	314.00	599
38.10	2331	131.00	1050	219.20	193	315.00	1692
39.10	10610	131.90	437	221.00	14573	316.00	869
40.00	1142	132.80	302	223.00	4255	317.10	191
41.10	218	134.00	1387	224.00	34896	317.90	65
42.10	99	135.00	3790	225.00	9366	319.90	91
44.00	850	136.00	1709	226.00	1129	320.90	285
44.90	298	137.00	2186	227.00	14708	321.90	216
46.00	94	137.70	379	228.00	2102	323.00	5239
46.90	94	138.00	386	229.00	3194	324.00	1034
47.90	132	139.00	450	230.00	444	324.90	129
49.00	1051	140.00	743	231.00	1445	327.00	953
50.10	35080	141.00	6768	232.00	290	328.00	442
51.10	141696	142.00	2049	233.00	213	329.00	160
52.10	6998	143.00	1585	234.00	792	331.90	309
53.10	279	144.00	525	235.00	860	333.00	412
55.00	716	145.00	516	235.90	354	334.00	3088
56.00	4164	146.10	903	237.00	964	335.00	709
57.00	10538	147.00	3462	238.00	213	335.90	123
58.00	419	148.00	7770	239.00	458	338.90	228
59.10	101	149.00	1607	240.00	442	339.90	161
60.10	77	150.00	581	241.00	948	341.00	648
61.00	1693	151.10	893	242.00	1754	341.90	175
62.10	1718	151.90	423	243.10	1712	343.10	53
63.00	5310	153.00	2246	244.00	28648	346.00	900
64.10	841	154.00	1793	245.00	3956	346.90	148
65.10	2679	155.00	3710	246.00	5086	351.10	89
66.10	188	156.00	5417	247.00	1197	352.00	1212
66.90	94	157.00	968	248.00	281	353.00	933
69.00	151360	158.00	1220	248.90	1095	354.00	1452
69.90	635	159.00	840	250.00	258	354.80	262
71.10	77	160.00	1977	251.10	281	355.00	257
72.00	95	161.00	3434	252.00	200	357.80	68

Data File: \\ELABNSH05\TARGET\chem\bna3.i\043011b3.b\SEQ-TUN1.D

Date : 30-APR-2011 14:42

Client ID: 50ppm DFTPP

Instrument: bna3.i

Sample Info: DF0430B1;;;;;;11D0633

Operator: MEC

Column phase: DB5-MS

Column diameter: 0.25

Data File: SEQ-TUN1.D

Spectrum: Avg. Scans 477-479 (11.44), Background Scan 472

Location of Maximum: 198.00

Number of points: 347

m/z	Y	m/z	Y	m/z	Y	m/z	Y
73.00	1115	162.00	904	253.10	751	358.80	121
74.00	15066	162.80	209	255.00	137216	361.10	57
75.00	22720	163.10	154	256.00	19576	363.90	105
76.10	7617	164.00	335	257.00	1564	365.00	6349
77.10	161472	165.00	2833	258.00	7152	366.00	1122
78.10	11758	166.00	1807	259.00	1171	367.00	70
79.00	9738	167.00	14635	259.90	323	370.00	237
80.00	7733	168.00	6906	261.00	182	371.10	246
81.00	10913	169.00	1363	261.90	99	372.00	2263
82.00	2836	169.90	503	263.30	154	373.00	580
83.00	2615	171.10	553	263.90	298	374.20	71
84.10	221	172.00	1443	265.00	3126	376.90	117
85.00	2019	173.00	1647	266.00	543	379.80	55
86.00	2740	174.00	2855	267.90	217	383.00	628
87.00	1241	175.00	5318	269.10	114	384.00	106
87.90	405	176.00	1944	269.90	84	384.90	68
89.00	217	177.00	2069	271.00	429	390.00	270
90.20	70	178.00	819	271.90	362	391.00	154
91.00	2325	179.00	10336	273.00	3820	392.00	142
92.00	2511	180.00	6385	274.00	11083	392.70	93
93.00	15682	181.00	3373	275.00	62184	400.90	130
94.00	1369	182.10	565	276.00	7883	402.00	840
94.90	377	182.90	507	277.00	4904	403.00	1025
96.00	866	184.00	896	278.00	886	404.00	383
97.00	406	185.00	5480	279.00	167	406.10	56
98.00	11991	186.00	34744	281.00	79	410.00	60
99.00	9771	187.00	9866	281.90	131	414.90	131
100.00	1054	188.00	1193	283.00	577	415.70	53
101.00	5427	189.00	2105	284.00	379	421.00	925
102.10	209	189.90	368	285.00	916	421.90	844
103.00	1582	191.00	1203	286.00	189	423.00	6806
104.00	3457	192.00	2736	287.90	120	424.00	1583
105.00	3558	193.00	3723	289.00	309	424.90	114
107.00	44536	194.00	726	290.10	168	429.50	52
108.00	6929	194.90	713	291.00	175	431.50	57

Data File: \\ELABNSH05\TARGET\chem\bna3.i\043011b3.b\SEQ-TUN1.D

Date : 30-APR-2011 14:42

Client ID: 50ppm DFTPP

Instrument: bna3.i

Sample Info: DF0430B1;;;;;;11D0633

Operator: MEC

Column phase: DB5-MS

Column diameter: 0.25

Data File: SEQ-TUN1.D

Spectrum: Avg. Scans 477-479 (11.44), Background Scan 472

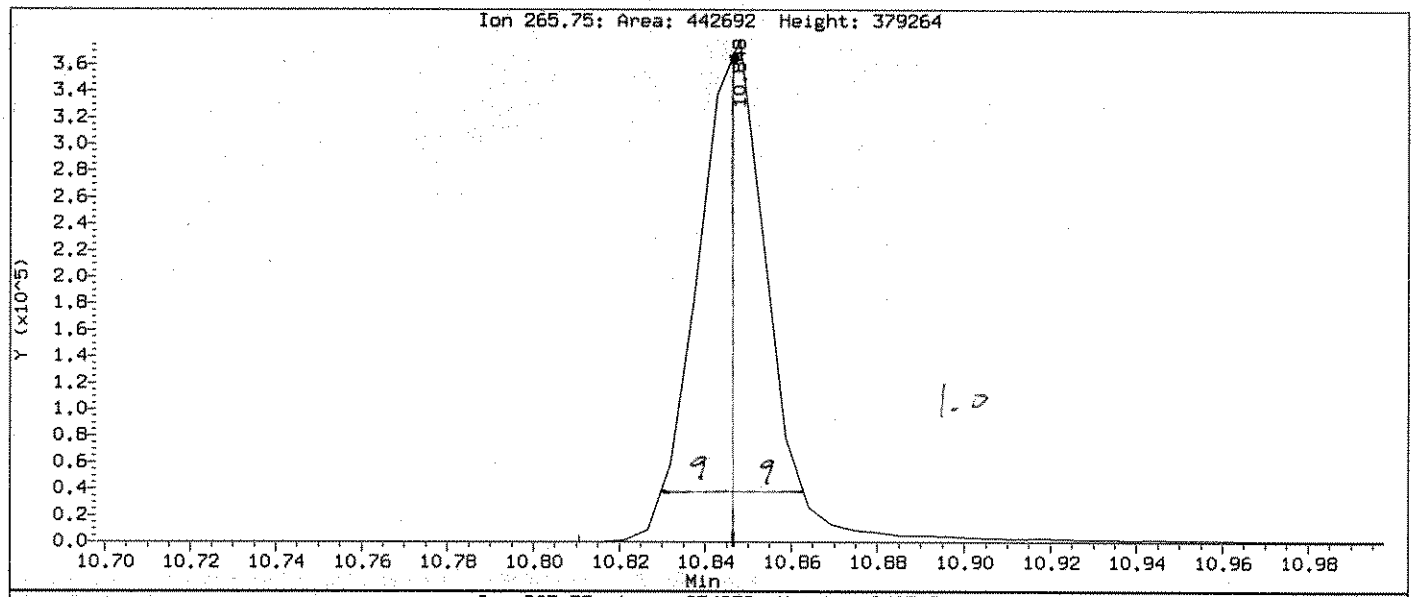
Location of Maximum: 198.00

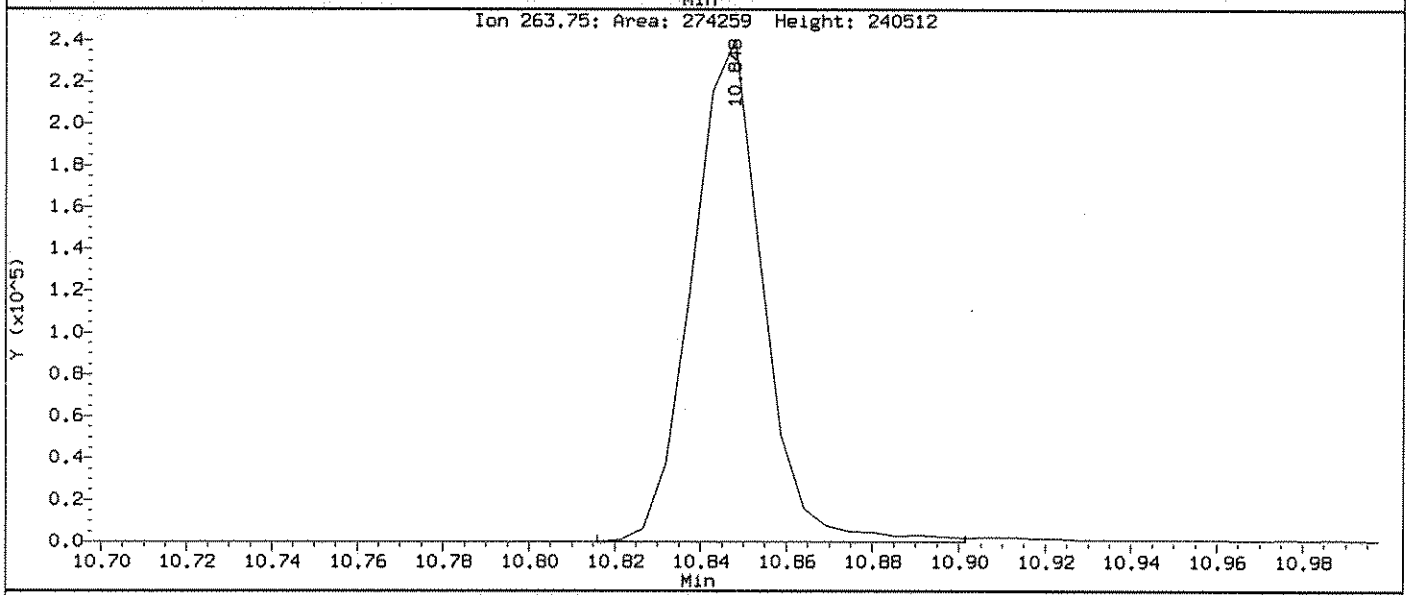
Number of points: 347

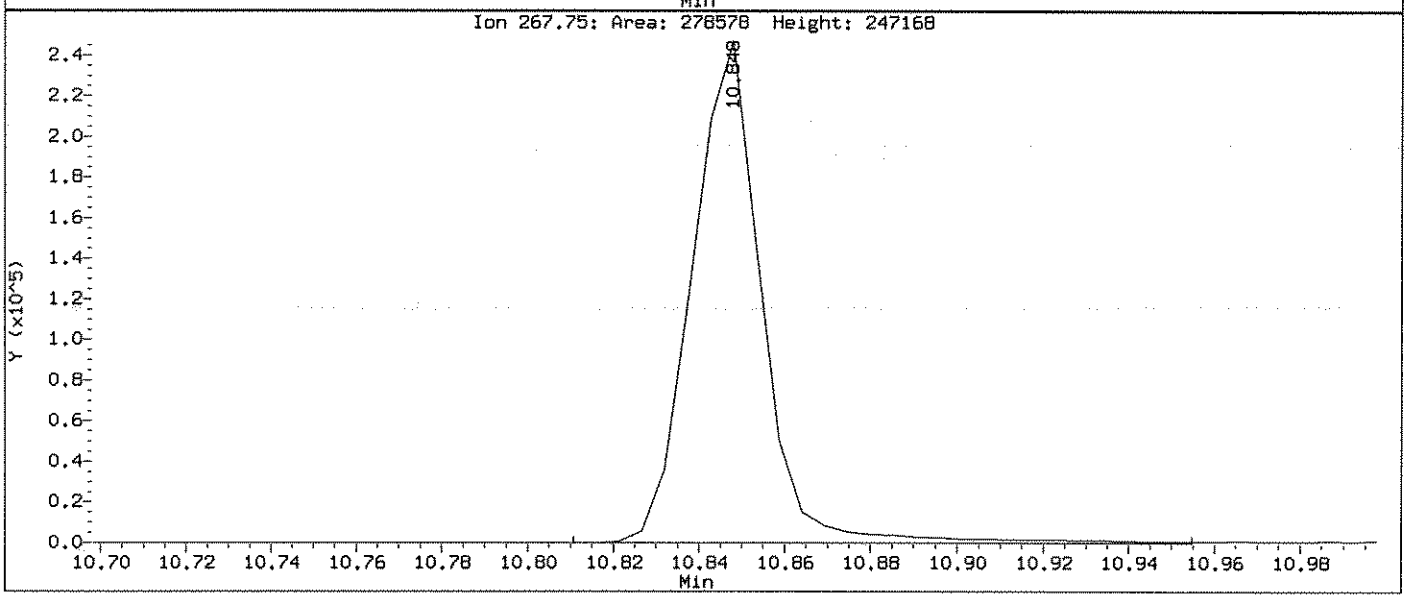
m/z	Y	m/z	Y	m/z	Y	m/z	Y
110.00	81296	196.00	8082	291.90	356	432.70	127
111.00	12977	198.00	271232	293.00	1229	433.80	94
112.00	1278	199.00	19672	294.10	258	435.00	225
113.10	467	200.00	1553	295.00	526	436.40	216
114.10	208	201.50	1372	296.00	15596	437.10	108
115.10	120	203.00	1928	297.00	2250	437.30	116
116.00	2519	204.00	9585	298.10	251	437.70	98
117.00	31632	205.00	16112	299.90	66	438.00	118
118.00	2664	206.00	67424	300.90	81	438.60	138
119.00	317	207.10	8523	302.10	216	439.20	211
120.00	343	208.00	1746	303.00	2321	439.90	180
121.00	161	209.00	797	304.10	378	441.00	19584
122.00	2251	210.10	1172	307.80	106	442.00	125976
123.00	4530	211.00	2585	309.00	189	443.00	26328
124.00	2533	213.10	124	310.10	303	444.00	2357
125.00	1668	213.80	109	310.60	64	444.90	166
127.00	154176	215.00	706	311.00	55		

Data File: \\ELABNSHO5\TARGET\chem\bna3.i\043011b3.b\SEQ-TUN1ex.D
Injection Date: 30-APR-2011 14:42
Instrument: bna3.i
Client Sample ID: 50ppm DFTPP

Compound: Pentachlorophenol
CAS Number: 87-86-5

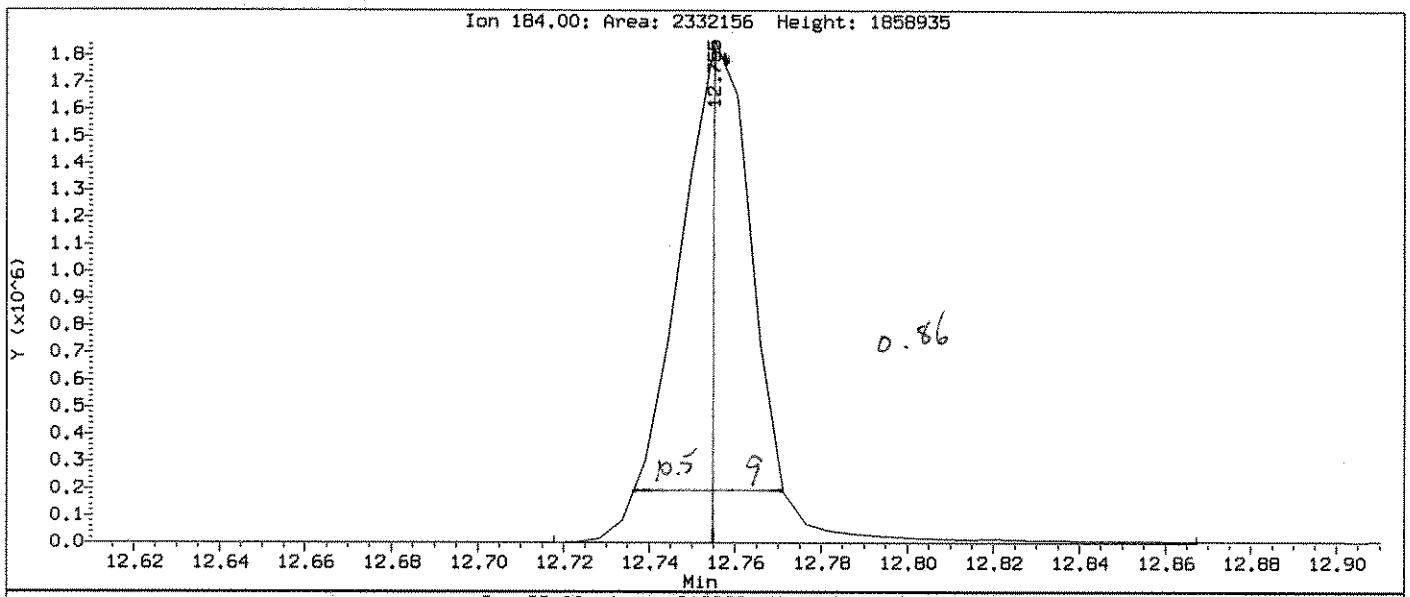


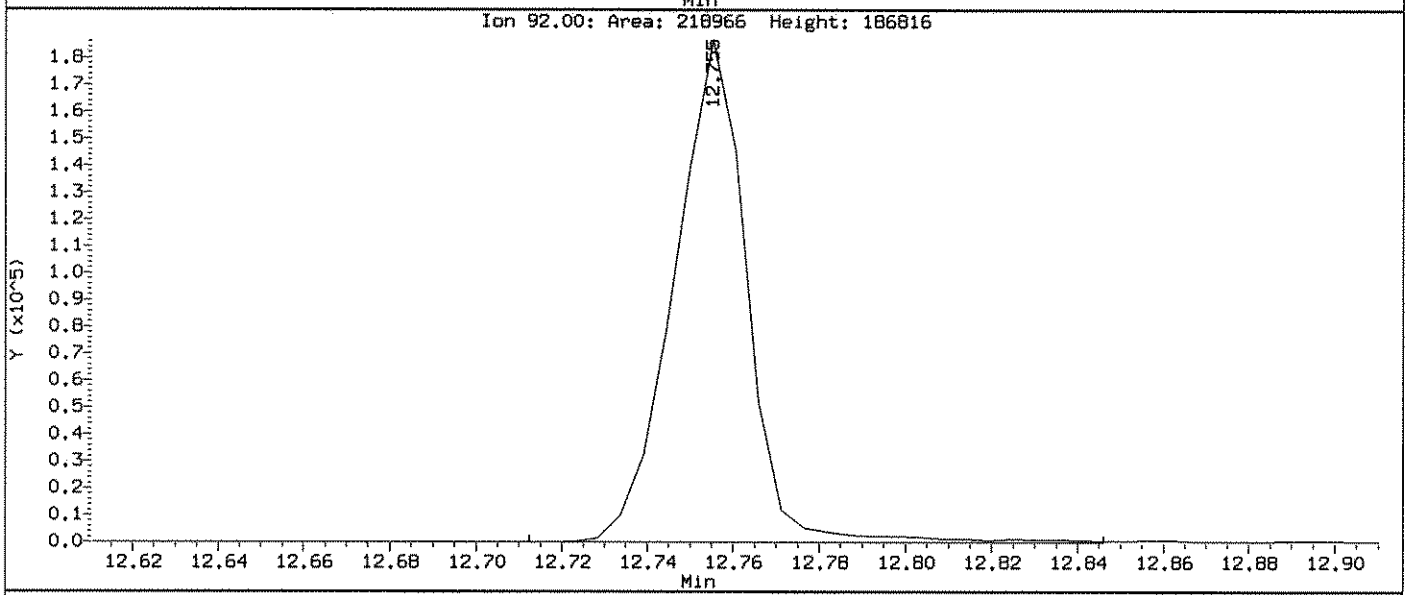


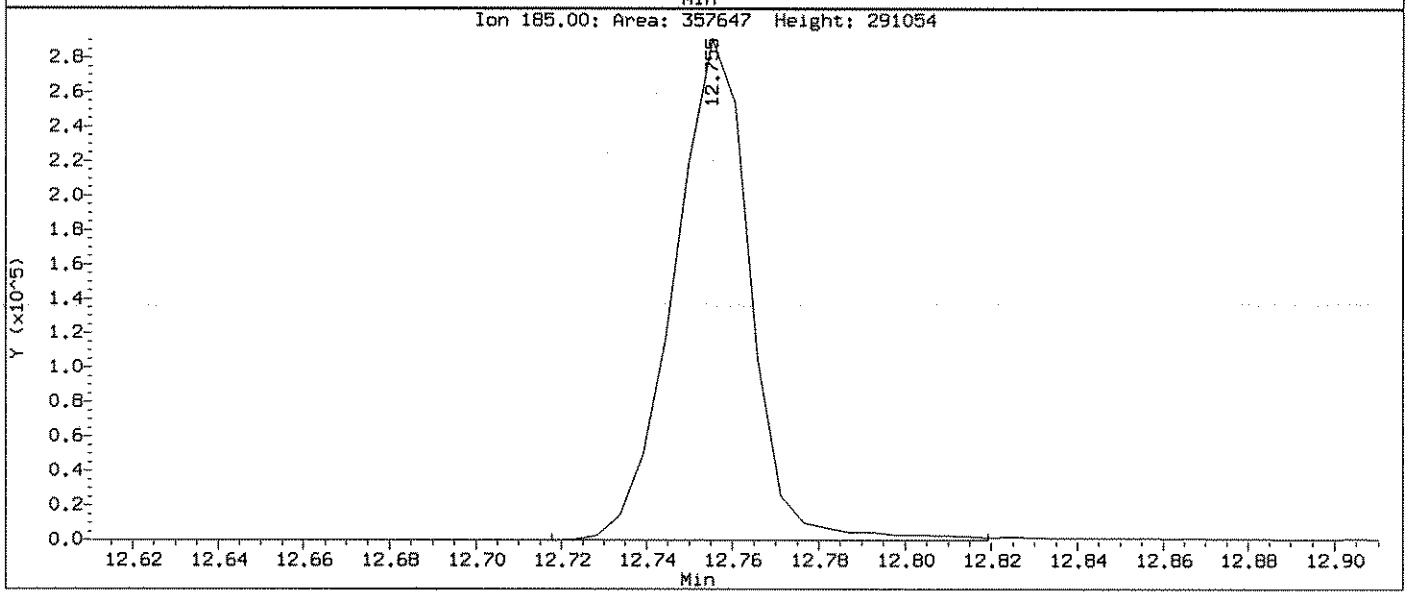


Data File: \\ELABNSHO5\TARGET\chem\bna3.i\043011b3.b\SEQ-TUN1ex.D
Injection Date: 30-APR-2011 14:42
Instrument: bna3.i
Client Sample ID: 50ppm DFTPP

Compound: Benzidine
CAS Number: 92-87-5







Data File: \\ELABNSH05\TARGET\chem\bna3.i\043011b3.b\SEQ-TUN1ex.D
Report Date: 01-May-2011 17:12

Laboratory Name

Data file : \\ELABNSH05\TARGET\chem\bna3.i\043011b3.b\SEQ-TUN1ex.D
Lab Smp Id: SEQ-TUN1 Client Smp ID: 50ppm DFTPP
Inj Date : 30-APR-2011 14:42
Operator : MEC Inst ID: bna3.i
Smp Info : DF0430B1;;;;;;11D0633
Misc Info : ;;;;;;;all.sub;
Comment :
Method : \\ELABNSH05\TARGET\chem\bna3.i\043011b3.b\dftppbn3ex.m
Meth Date : 29-Apr-2011 16:48 mcobb Quant Type: ESTD
Cal Date : Cal File:
Als bottle: 1 QC Sample: DFTPP
Dil Factor: 1.00000
Integrator: HP RTE Compound Sublist: all.sub
Target Version: 4.04
Processing Host: TARGET09_VM

Compounds	QUANT SIG MASS	RT	EXP RT	DLT RT	RESPONSE	CONCENTRATIONS ON-COLUMN (ng/ul)	FINAL (ng/ul)
1 Pentachlorophenol	266	10.847	10.849	-0.002	442692		
2 Benzidine	184	12.755	12.761	-0.006	2332156		
4 4,4'-DDD	235	13.401	13.402	-0.001	2862		
5 4,4'-DDT	235	13.775	13.776	-0.001	1035896		

DDT breakdown = $\frac{2862}{1038758} \times 100 = 0.28\%$

Data File: \\ELABNSH05\TARGET\chem\bna3.i\050211b3.b\SEQ-TUN1.D

Date : 02-MAY-2011 13:51

Client ID: 50ppm DFTPP

Instrument: bna3.i

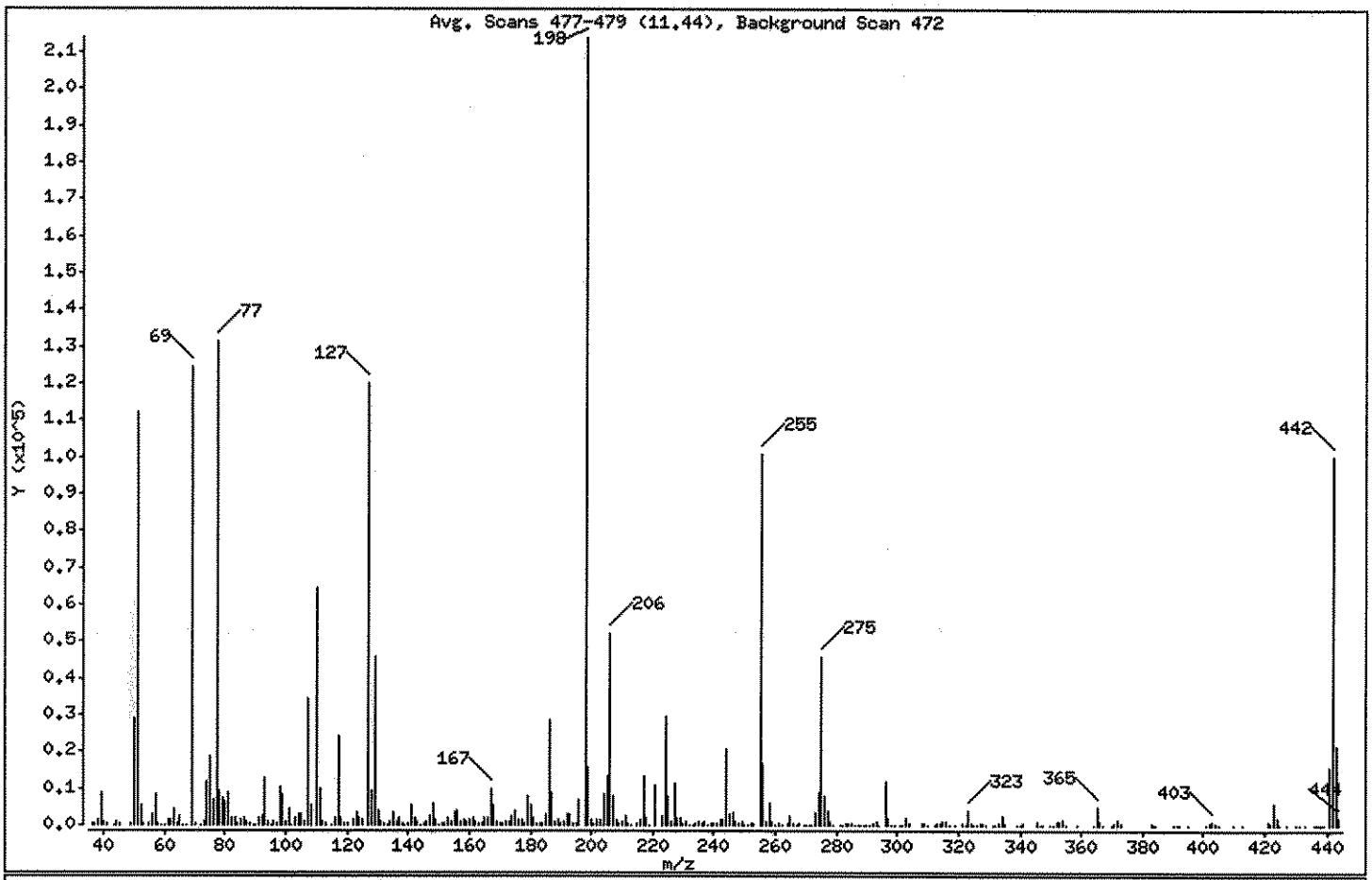
Sample Info: DF0502B1;;;;;;11D0663

Operator: MEC

Column phase: DB5-MS

Column diameter: 0.25

1 dftpp



m/e	ION ABUNDANCE CRITERIA	% RELATIVE ABUNDANCE
198	Base Peak, 100% relative abundance	100.00
51	30.00 - 60.00% of mass 198	52.46
68	Less than 2.00% of mass 69	0.00 (0.00)
69	Mass 69 relative abundance	58.16
70	Less than 2.00% of mass 69	0.30 (0.51)
127	40.00 - 60.00% of mass 198	56.13
197	Less than 1.00% of mass 198	0.00
199	5.00 - 9.00% of mass 198	7.39
275	10.00 - 30.00% of mass 198	21.44
365	Greater than 1.00% of mass 198	2.24
441	Present, but less than mass 443	7.26
442	Greater than 40.00% of mass 198	46.92
443	17.00 - 23.00% of mass 442	10.06 (21.44)

5/2/11

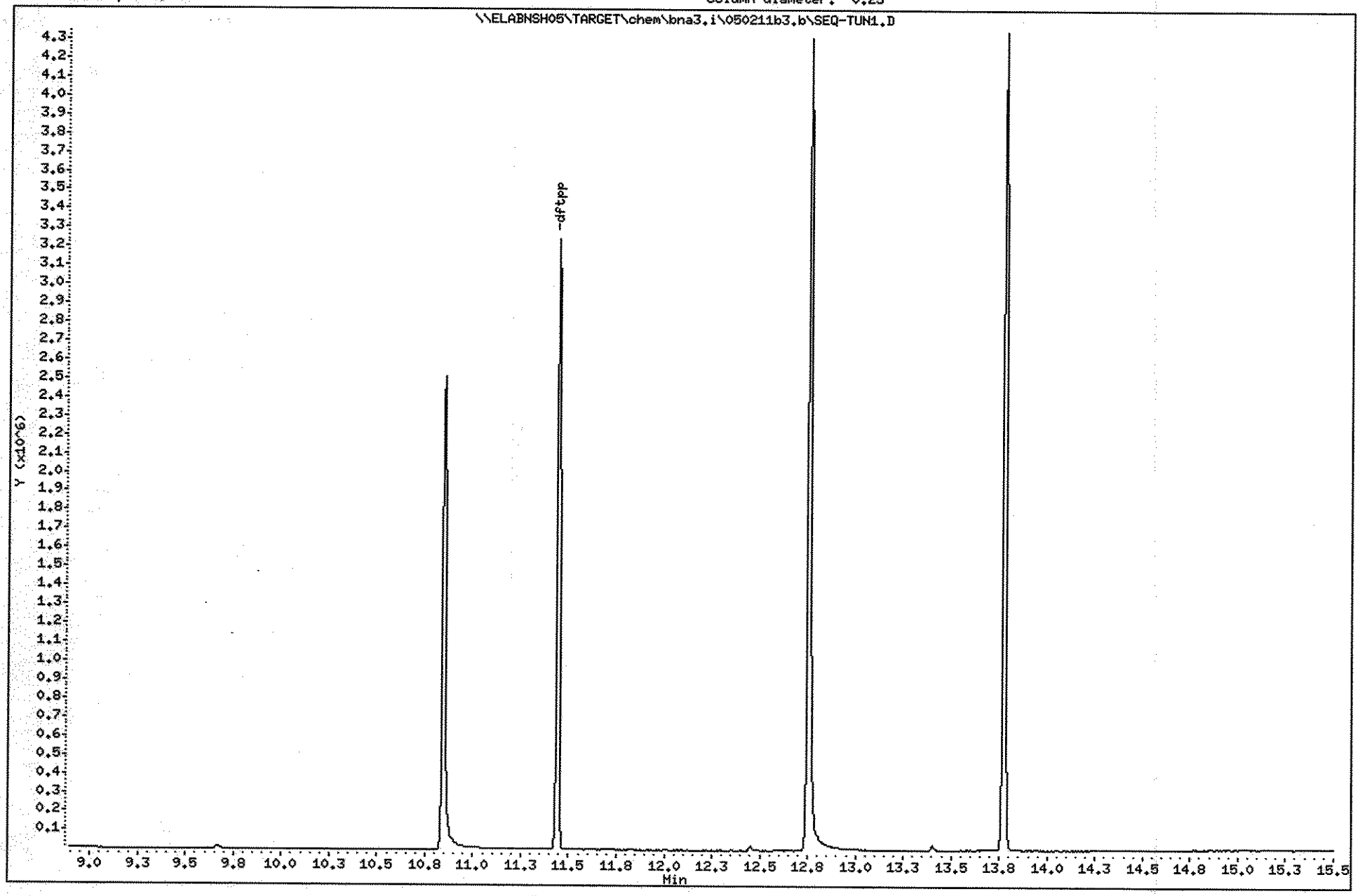
GLQ
5/6/11

Data File: \\ELABNSH05\TARGET\chem\bna3.i\050211b3.b\SEQ-TUN1.D
Date : 02-MAY-2011 13:51
Client ID: 50ppm DFTPP
Sample Info: DF0502B1;;;;;;11D0663

Instrument: bna3.i

Operator: MEC
Column diameter: 0.25

Column phase: DB5-MS



Data File: \\ELABNSH05\TARGET\chem\bna3.i\050211b3.b\SEQ-TUN1.D

Date : 02-MAY-2011 13:51

Client ID: 50ppm DFTPP

Instrument: bna3.i

Sample Info: DF0502B1;;;;;;11D0663

Operator: MEC

Column phase: DB5-MS

Column diameter: 0.25

Data File: SEQ-TUN1.D

Spectrum: Avg. Scans 477-479 (11.44), Background Scan 472

Location of Maximum: 198.00

Number of points: 329

m/z	Y	m/z	Y	m/z	Y	m/z	Y
36.10	306	130.00	3754	213.00	87	304.00	591
37.00	527	131.00	745	215.00	319	307.90	269
38.00	1510	132.00	302	216.00	1404	309.00	302
39.10	8939	133.00	153	217.00	13486	310.00	194
40.00	885	134.00	1135	218.00	1728	312.20	75
41.10	399	135.00	3297	219.00	192	313.00	271
43.20	97	136.00	1181	221.00	10932	313.90	636
44.00	1150	137.10	1786	223.00	2523	314.90	1151
45.00	331	138.00	450	224.00	29432	316.00	868
49.00	688	138.90	234	225.10	7983	316.80	139
50.10	28792	140.00	534	226.00	777	318.80	52
51.10	112248	141.00	5409	227.00	11317	321.00	442
52.10	5622	142.00	1831	228.00	2100	322.20	161
53.00	291	143.00	1169	229.00	2159	323.10	3764
55.00	509	144.10	214	229.90	314	324.00	637
56.00	3115	144.90	249	231.00	1140	325.10	112
57.00	8193	146.00	992	232.10	197	326.00	192
57.90	401	147.10	2664	233.00	235	327.00	486
59.10	104	148.00	5882	234.00	671	328.00	373
60.00	113	149.00	1425	235.00	829	329.10	90
61.00	1646	150.00	210	236.00	421	331.10	56
62.00	1575	151.20	690	237.00	1123	331.90	223
63.00	4315	152.00	353	238.10	216	332.10	220
64.00	570	153.00	1780	239.00	471	333.00	305
65.10	2411	154.00	1043	240.00	327	334.10	2325
66.10	162	155.00	3211	240.90	586	335.10	660
67.10	241	156.00	3905	242.00	1631	339.00	82
69.00	124432	157.10	993	243.00	1443	340.10	72
70.10	635	158.00	1291	244.00	20864	341.00	482
72.10	94	159.10	1020	245.00	2880	345.90	815
73.00	994	160.00	1597	246.00	3423	347.00	154
74.00	11629	161.10	2130	247.00	896	347.60	82
75.00	18480	162.00	821	248.00	258	349.60	55
76.10	6815	162.90	270	249.00	764	350.90	60
77.10	131520	164.00	377	249.90	174	352.00	1044

Data File: \\ELABNSH05\TARGET\chem\bna3.i\050211b3.b\SEQ-TUN1.D

Date : 02-MAY-2011 13:51

Client ID: 50ppm DFTPP

Instrument: bna3.i

Sample Info: DF0502B1;;;;;;11D0663

Operator: MEC

Column phase: DB5-MS

Column diameter: 0.25

Data File: SEQ-TUN1.D

Spectrum: Avg. Scans 477-479 (11.44), Background Scan 472

Location of Maximum: 198.00

Number of points: 329

m/z	Y	m/z	Y	m/z	Y	m/z	Y
78.00	9266	165.00	2092	250.80	190	353.00	857
79.00	7350	166.00	1754	252.00	310	354.10	1251
80.00	6603	167.00	9755	253.00	619	354.90	210
81.00	8848	168.00	5211	255.00	100640	358.80	76
82.00	1887	169.00	1095	256.00	16480	363.90	98
83.00	2195	170.00	367	256.90	941	365.00	4796
84.10	299	170.90	423	258.00	6083	366.00	827
85.00	1464	172.00	1001	259.00	824	367.00	83
86.00	2189	173.00	1188	259.90	185	369.90	153
87.00	933	174.00	2358	260.90	347	370.90	378
88.00	349	175.00	4033	262.50	60	372.00	1583
89.00	223	176.00	1335	263.90	356	372.90	356
89.90	91	177.00	1448	265.00	2243	383.00	607
91.00	1782	177.90	597	265.90	588	383.80	90
92.00	2300	179.00	7984	267.00	87	384.10	103
93.00	13021	180.00	5548	267.80	275	390.00	104
94.00	985	181.00	2045	269.60	95	391.30	121
95.10	226	182.10	328	270.00	93	391.80	235
96.00	845	183.00	300	271.00	206	395.10	63
97.00	360	183.90	553	272.00	242	401.00	142
98.00	10194	185.00	3132	273.00	3305	402.00	482
99.00	8410	186.00	28624	274.00	8689	403.00	843
99.90	781	187.00	8624	275.00	45880	404.00	474
101.00	4261	188.00	844	276.00	7720	405.10	79
101.90	128	189.00	1718	277.00	3775	409.90	60
103.00	1794	190.00	261	278.00	996	412.60	74
104.00	2721	191.10	854	279.00	69	421.00	977
105.00	3055	192.00	2765	281.10	65	422.00	666
106.00	917	193.00	2930	282.10	74	423.00	5992
107.00	34288	194.00	642	283.00	276	424.00	1757
108.00	5547	195.00	410	284.00	255	424.90	94
110.00	64224	196.00	7073	285.10	531	427.00	74
111.00	9903	198.00	213952	286.10	205	429.90	74
112.00	926	199.00	15810	287.20	50	431.60	67
113.00	536	200.00	1370	288.10	96	433.00	121

Data File: \\ELABNSH05\TARGET\chem\bna3.i\050211b3.b\SEQ-TUN1.D

Date : 02-MAY-2011 13:51

Client ID: 50ppm DFTPP

Instrument: bna3.i

Sample Info: DF0502B1;;;;;;11D0663

Operator: MEC

Column phase: DB5-MS

Column diameter: 0.25

Data File: SEQ-TUN1.D
Spectrum: Avg. Scans 477-479 (11.44), Background Scan 472
Location of Maximum: 198.00
Number of points: 329

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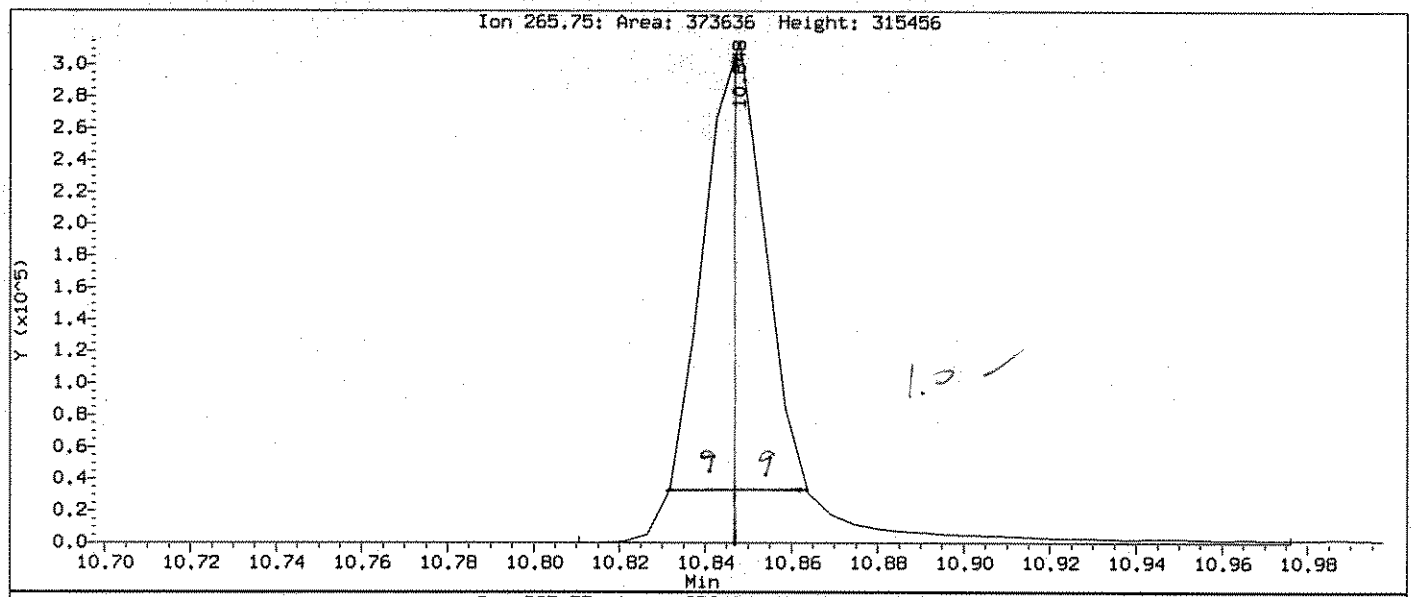
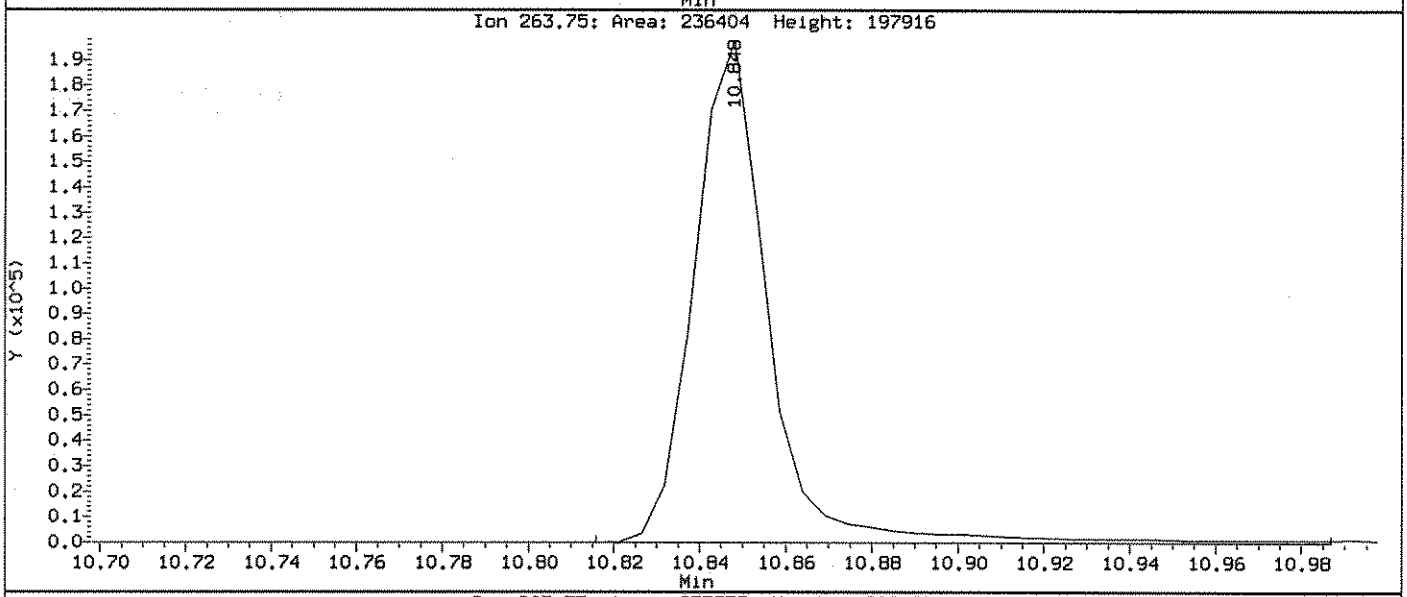
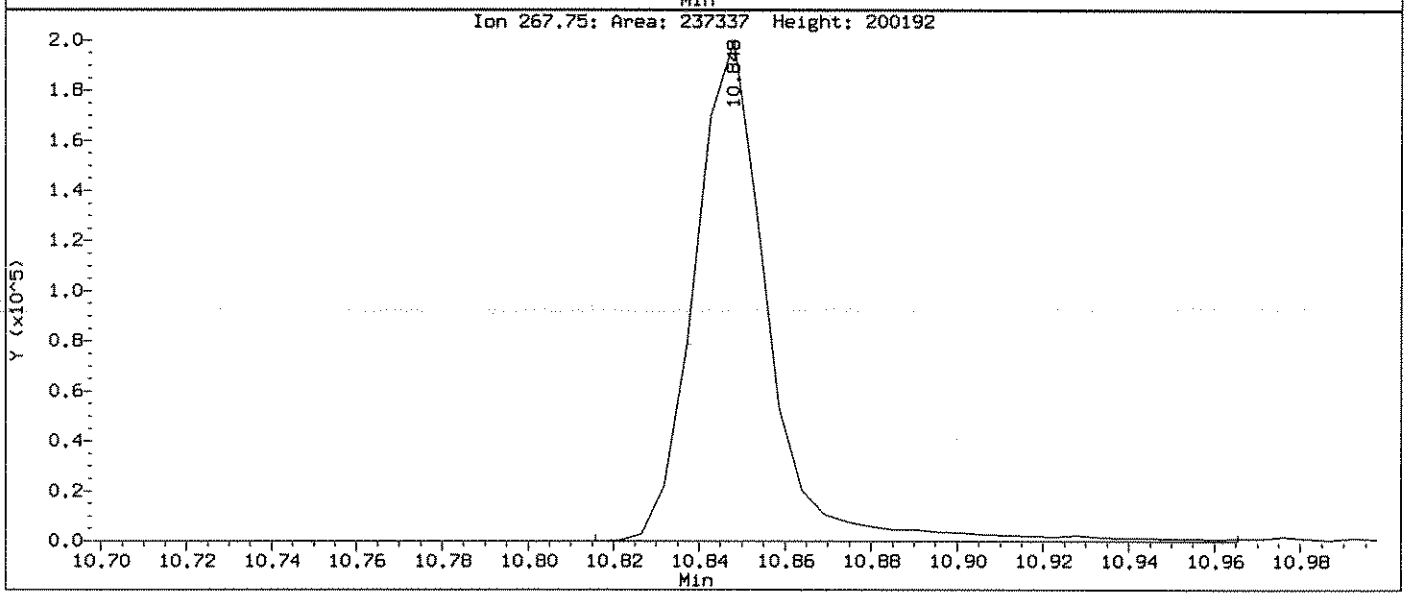
114.90	145	200.70	341	289.00	185	435.90	71
116.00	2024	201.50	1303	289.90	171	436.50	96
117.00	23896	203.00	1392	291.00	71	437.00	108
118.00	1854	204.00	8185	292.00	251	437.90	76
119.00	382	205.00	13497	293.00	1075	438.50	192
120.10	348	206.00	52248	294.10	192	439.30	166
122.00	1479	207.10	7708	296.00	11721	441.00	15523
123.00	3474	208.00	1586	296.90	1947	442.00	100384
124.00	1727	209.00	586	297.80	69	443.00	21520
125.00	1512	210.00	858	299.00	114	444.00	2105
127.00	120096	211.00	2252	301.10	228		
128.00	9433	211.70	436	301.90	226		
129.00	45504	212.00	418	303.00	1768		

Data File: \\ELABNSH05\TARGET\chem\bna3.i\050211b3.b\SEQ-TUN1ex.D
Injection Date: 02-MAY-2011 13:51
Instrument: bna3.i
Client Sample ID: 50ppm DFTPP

Compound: Pentachlorophenol
CAS Number: 87-86-5







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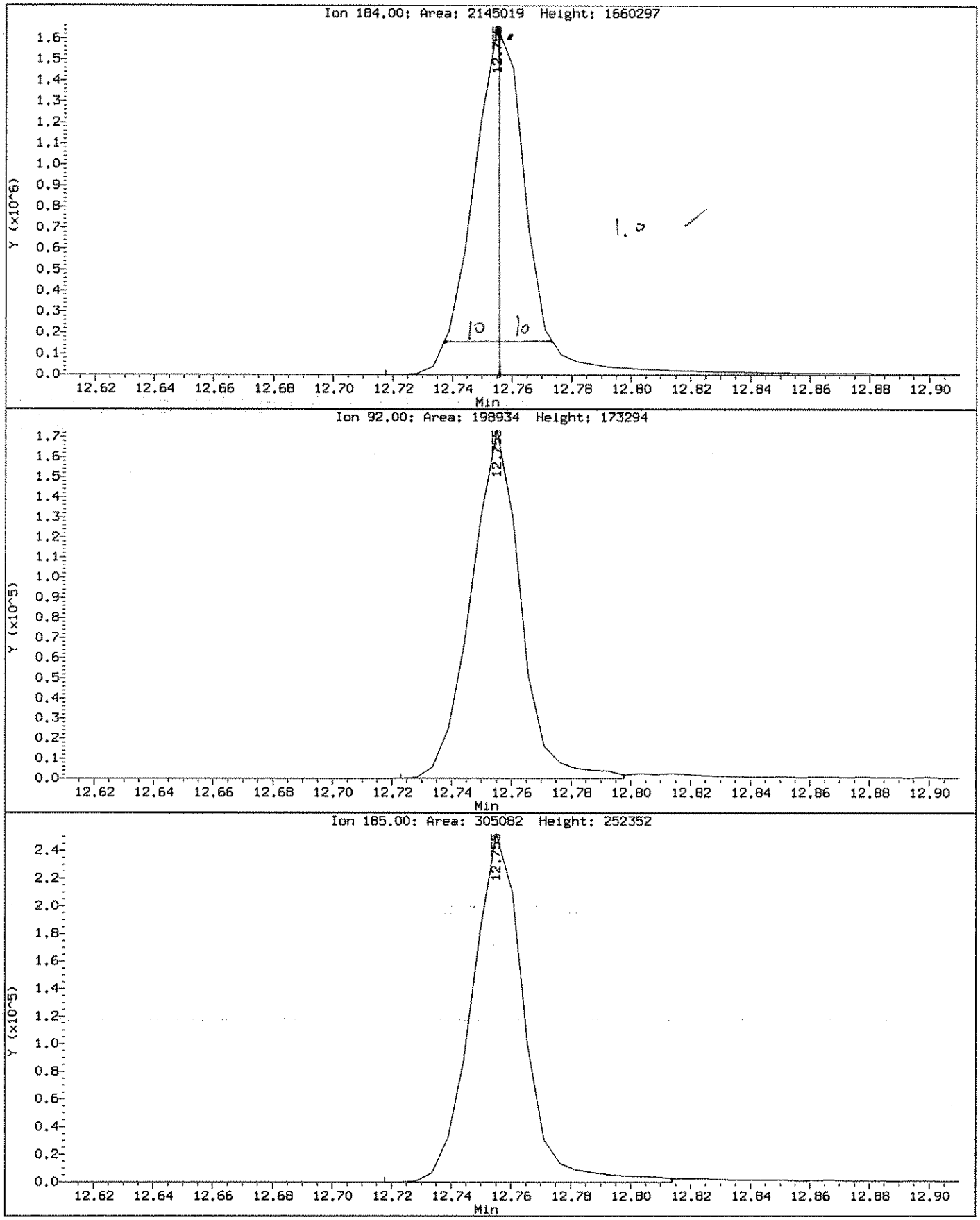
Injection Date: 02-MAY-2011 13:51
Instrument: bna3.i
Client Sample ID: 50ppm DFTPP

Compound: Benzidine
CAS Number: 92-87-5



Data File: \\ELABNSH05\TARGET\chem\bna3.i\050211b3.b\SEQ-TUN1ex.D
Report Date: 02-May-2011 14:55

Laboratory Name

Data file : \\ELABNSH05\TARGET\chem\bna3.i\050211b3.b\SEQ-TUN1ex.D
Lab Smp Id: SEQ-TUN1 Client Smp ID: 50ppm DFTPP
Inj Date : 02-MAY-2011 13:51
Operator : MEC Inst ID: bna3.i
Smp Info : DF0502B1;;;;;;11D0663
Misc Info : ;;;;;;;all.sub;
Comment :
Method : \\ELABNSH05\TARGET\chem\bna3.i\050211b3.b\dftppbn3ex.m
Meth Date : 29-Apr-2011 16:48 mcobb Quant Type: ESTD
Cal Date : Cal File:
Als bottle: 1 QC Sample: DFTPP
Dil Factor: 1.00000
Integrator: HP RTE Compound Sublist: all.sub
Target Version: 4.04
Processing Host: TARGET09_VM

Compounds	QUANT SIG MASS	RT	EXP RT	DLT RT	RESPONSE	CONCENTRATIONS ON-COLUMN (ng/ul)	FINAL (ng/ul)
1 Pentachlorophenol	266	10.847	10.849	-0.002	373636		
2 Benzidine	184	12.755	12.761	-0.006	2145019		
4 4,4'-DDD	235	13.401	13.402	-0.001	6712		
5 4,4'-DDT	235	13.775	13.776	-0.001	896332		

DDT breakdown = $\frac{6712}{903044} \times 100 = 0.74\%$

Data File: \\ELABNSH05\TARGET\chem\bna3.i\042911b3.b\SEQ-CAL1.D
Report Date: 30-Apr-2011 15:00

Laboratory Name

Data file : \\ELABNSH05\TARGET\chem\bna3.i\042911b3.b\SEQ-CAL1.D
Lab Smp Id: SEQ-CAL1 Client Smp ID: SEQ-CAL1
Inj Date : 29-APR-2011 17:45 MS Autotune Date: 07-SEP-2010 05:33
Operator : MEC Inst ID: bna3.i
Smp Info : CAL5.0PPM;;;;;;11D0216
Misc Info : ;;;;;;cal_1.sub;
Comment :
Method : \\ELABNSH05\TARGET\chem\bna3.i\042911b3.b\IXBN3.m
Meth Date : 30-Apr-2011 15:00 mcobb Quant Type: ISTD
Cal Date : 29-APR-2011 22:09 Cal File: SEQ-CAL9.D
Als bottle: 2 Calibration Sample, Level: 1
Dil Factor: 1.00000
Integrator: HP RTE Compound Sublist: cal_1.sub
Target Version: 4.04
Processing Host: TARGET09_VM

Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	AMOUNTS CAL-AMT (ng/ul)	AMOUNTS ON-COL (ng/ul)
* 1 1,4-Dichlorobenzene-d4	152	6.380	6.380	(1.000)	752034	40.0000	
$ 2 2-Fluorophenol	112	4.724	4.724	(0.740)	228282	10.0000	10.63
$ 3 Phenol-d6	99	5.883	5.883	(0.922)	312621	10.0000	10.57
4 Pyridine	79	3.324	3.324	(0.521)	141844	5.00000	5.088
6 N-Nitroso-di-methylamine	42	3.266	3.266	(0.512)	65999	5.00000	5.128
7 Aniline	93	5.953	5.953	(0.933)	207734	5.00000	5.263
10 Phenol	94	5.899	5.899	(0.925)	165805	5.00000	5.225
11 bis(2-Chloroethyl)ether	93	6.038	6.038	(0.946)	131509	5.00000	5.390
12 2-Chlorophenol	128	6.102	6.102	(0.956)	130420	5.00000	5.275
13 1,3-Dichlorobenzene	146	6.305	6.305	(0.988)	147996	5.00000	5.513
14 1,4-Dichlorobenzene	146	6.402	6.402	(1.003)	147401	5.00000	5.426
15 Benzyl alcohol	108	6.546	6.546	(1.026)	81005	5.00000	4.971
16 1,2-Dichlorobenzene	146	6.594	6.594	(1.033)	137792	5.00000	5.414
17 2-Methylphenol	108	6.685	6.685	(1.048)	118471	5.00000	5.214
18 2,2'-Oxybis-1-chloropropane	45	6.733	6.733	(1.055)	197849	5.00000	5.405
19 3-Methylphenol	108	6.888	6.888	(1.080)	125186	5.00000	5.250
20 4-Methylphenol	108	6.888	6.888	(1.080)	125186	5.00000	5.250
21 N-Nitroso-di-n-propylamine	70	6.893	6.893	(1.080)	101991	5.00000	5.247
22 Hexachloroethane	117	7.032	7.032	(1.102)	54958	5.00000	5.349
* 33 Naphthalene-d8	136	8.020	8.020	(1.000)	2684251	40.0000	
$ 34 Nitrobenzene-d5	82	7.085	7.085	(0.883)	141777	5.00000	5.184
35 Nitrobenzene	77	7.112	7.112	(0.887)	146361	5.00000	5.309
39 Isophorone	82	7.422	7.422	(0.925)	264958	5.00000	5.305
40 2-Nitrophenol	139	7.523	7.523	(0.938)	65833	5.00000	5.053
42 2,4-Dimethylphenol	107	7.577	7.577	(0.945)	128890	5.00000	5.282
43 Benzoic acid	105	7.662	7.662	(0.955)	54730	5.00000	3.044

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GLQ 5/6/11

Data File: \\ELABNSH05\TARGET\chem\bna3.i\042911b3.b\SEQ-CAL1.D
Report Date: 30-Apr-2011 15:00

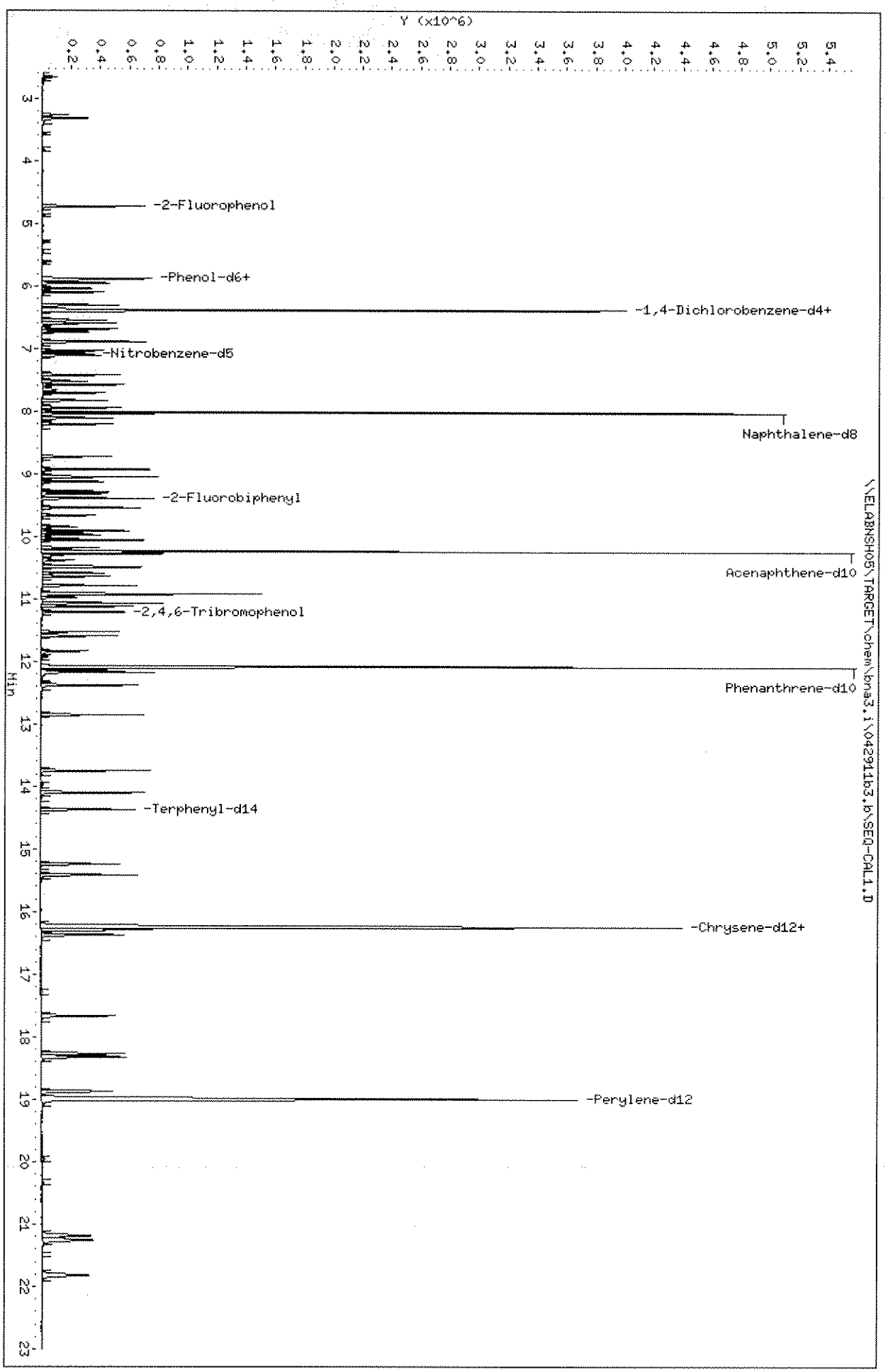
Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	AMOUNTS CAL-AMT (ng/ul)	AMOUNTS ON-COL (ng/ul)
44 bis(2-Chloroethoxy)methane	93	7.710	7.710	(0.961)	154719	5.00000	5.400
47 2,4-Dichlorophenol	162	7.828	7.828	(0.976)	106343	5.00000	5.201
50 1,2,4-Trichlorobenzene	180	7.945	7.945	(0.991)	125703	5.00000	5.474
51 Naphthalene	128	8.047	8.047	(1.003)	376502	5.00000	5.634
52 4-Chloroaniline	127	8.111	8.111	(1.011)	152322	5.00000	5.372
53 Hexachlorobutadiene	225	8.207	8.207	(1.023)	65715	5.00000	5.241
54 4-Chloro-3-methylphenol	107	8.725	8.725	(1.088)	109782	5.00000	5.254
55 2-Methylnaphthalene	141	8.928	8.928	(1.113)	215942	5.00000	5.386
56 1-Methylnaphthalene	141	9.051	9.051	(1.129)	216126	5.00000	5.484
* 69 Acenaphthene-d10	164	10.243	10.243	(1.000)	1574376	40.0000	
70 Hexachlorocyclopentadiene	237	9.126	9.126	(0.891)	68471	5.00000	4.639
71 2,4,6-Trichlorophenol	196	9.281	9.281	(0.906)	75377	5.00000	5.013
72 2,4,5-Trichlorophenol	196	9.318	9.318	(0.910)	82887	5.00000	5.083
73 2-Chloronaphthalene	162	9.537	9.537	(0.931)	236202	5.00000	5.517
$ 74 2-Fluorobiphenyl	172	9.393	9.393	(0.917)	271538	5.00000	5.452
75 2-Nitroaniline	65	9.666	9.666	(0.944)	72138	5.00000	4.953
76 Dimethylphthalate	163	9.906	9.906	(0.967)	266693	5.00000	5.445
77 Acenaphthylene	152	10.061	10.061	(0.982)	375993	5.00000	5.537
78 2,6-Dinitrotoluene	165	9.975	9.975	(0.974)	62459	5.00000	5.304
79 3-Nitroaniline	138	10.178	10.178	(0.994)	65132	5.00000	5.122
80 Acenaphthene	153	10.280	10.280	(1.004)	236267	5.00000	5.406
81 2,4-Dinitrophenol	184	10.312	10.312	(1.007)	24469	5.00000	3.352
83 4-Nitrophenol	65	10.376	10.376	(1.013)	45208	5.00000	4.220
84 Dibenzofuran	168	10.494	10.494	(1.025)	332712	5.00000	5.506
85 2,4-Dinitrotoluene	165	10.472	10.472	(1.022)	77108	5.00000	4.985
86 Diethylphthalate	149	10.782	10.782	(1.053)	259896	5.00000	5.527
87 4-Chlorophenyl-phenylether	204	10.921	10.921	(1.066)	132304	5.00000	5.392
88 Fluorene	166	10.916	10.916	(1.066)	281015	5.00000	5.338
89 4-Nitroaniline	138	10.932	10.932	(1.067)	67505	5.00000	5.240
96 2,3,4,6-Tetrachlorophenol	232	10.638	10.638	(1.039)	67396	5.00000	5.126
* 102 Phenanthrene-d10	188	12.086	12.086	(1.000)	2577091	40.0000	
103 1,2-Diphenylhydrazine	77	11.119	11.119	(0.920)	302673	5.00000	5.522
104 Carbazole	167	12.379	12.379	(1.024)	376729	5.00000	5.599
105 4,6-Dinitro-2-methylphenol	198	10.974	10.974	(0.908)	39006	5.00000	4.163
106 N-Nitrosodiphenylamine	169	11.065	11.065	(0.916)	239910	5.00000	5.534
$ 107 2,4,6-Tribromophenol	330	11.215	11.215	(0.928)	71450	10.0000	10.09
108 4-Bromophenyl-phenylether	248	11.530	11.530	(0.954)	79538	5.00000	5.403
109 Hexachlorobenzene	284	11.594	11.594	(0.959)	85125	5.00000	5.407
110 Pentachlorophenol	266	11.840	11.840	(0.980)	47239	5.00000	4.517
111 Phenanthrene	178	12.112	12.112	(1.002)	386392	5.00000	5.574
112 Anthracene	178	12.176	12.176	(1.008)	398091	5.00000	5.655
115 Di-n-butylphthalate	149	12.855	12.855	(1.064)	416148	5.00000	5.464
116 Fluoranthene	202	13.747	13.747	(1.137)	423617	5.00000	5.329
* 132 Chrysene-d12	240	16.242	16.242	(1.000)	2801926	40.0000	
134 Pyrene	202	14.100	14.100	(0.868)	442265	5.00000	5.425
$ 135 Terphenyl-d14	244	14.367	14.367	(0.885)	273875	5.00000	5.239
136 Butylbenzylphthalate	149	15.237	15.237	(0.938)	177889	5.00000	4.950

Data File: \\ELABNSH05\TARGET\chem\bna3.i\042911b3.b\SEQ-CAL1.D
Report Date: 30-Apr-2011 15:00

Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	AMOUNTS CAL-AMT (ng/ul)	AMOUNTS ON-COL (ng/ul)
138 Benzo(a)anthracene	228	16.220	16.220	(0.999)	409387	5.00000	5.221
139 Chrysene	228	16.284	16.284	(1.003)	403188	5.00000	5.493
140 Bis(2-ethylhexyl)phthalate	149	16.370	16.370	(1.008)	238483	5.00000	5.012
* 154 Perylene-d12	264	18.998	18.998	(1.000)	2818098	40.0000	
155 Di-n-octylphthalate	149	17.663	17.663	(0.930)	397934	5.00000	4.690
156 Benzo(b)fluoranthene	252	18.266	18.266	(0.961)	379778	5.00000	4.929
157 Benzo(k)fluoranthene	252	18.320	18.320	(0.964)	412885	5.00000	5.290
158 Benzo(a)pyrene	252	18.875	18.875	(0.994)	365035	5.00000	4.954
159 Indeno(1,2,3-cd)pyrene	276	21.183	21.183	(1.115)	328633	5.00000	4.494
160 Dibenz(a,h)anthracene	278	21.253	21.253	(1.119)	333524	5.00000	4.713
161 Benzo(g,h,i)perylene	276	21.819	21.819	(1.148)	354589	5.00000	4.872

Data File: \\ELABNSHO5\TARGET\chem\bna3.i\042911b3.b\SEQ-CAL1.D
Date : 29-APR-2011 17:45
Client ID: SEQ-CAL1
Sample Info: CAL5,0PPM;;;;;i1D0216
Column phase: fused silica

Instrument: bna3.i
Operator: MEC
Column diameter: 0.25



Data File: \\ELABNSH05\TARGET\chem\bna3.i\042911b3.b\SEQ-CAL2.D
Report Date: 30-Apr-2011 15:00

Laboratory Name

Data file : \\ELABNSH05\TARGET\chem\bna3.i\042911b3.b\SEQ-CAL2.D
Lab Smp Id: SEQ-CAL2 Client Smp ID: SEQ-CAL2
Inj Date : 29-APR-2011 18:19 MS Autotune Date: 07-SEP-2010 05:33
Operator : MEC Inst ID: bna3.i
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Misc Info : ;;;;;;cal_1.sub;
Comment :
Method : \\ELABNSH05\TARGET\chem\bna3.i\042911b3.b\IXBN3.m
Meth Date : 30-Apr-2011 15:00 mcobb Quant Type: ISTD
Cal Date : 29-APR-2011 22:09 Cal File: SEQ-CAL9.D
Als bottle: 3 Calibration Sample, Level: 2
Dil Factor: 1.00000
Integrator: HP RTE Compound Sublist: cal_1.sub
Target Version: 4.04
Processing Host: TARGET09_VM

Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	AMOUNTS CAL-AMT (ng/ul)	AMOUNTS ON-COL (ng/ul)
* 1 1,4-Dichlorobenzene-d4	152	6.380	6.380	(1.000)	683760	40.0000	
$ 2 2-Fluorophenol	112	4.724	4.724	(0.740)	405094	20.0000	20.75
$ 3 Phenol-d6	99	5.883	5.883	(0.922)	558522	20.0000	20.77
4 Pyridine	79	3.303	3.303	(0.518)	251911	10.0000	9.938
6 N-Nitroso-di-methylamine	42	3.249	3.249	(0.509)	119222	10.0000	10.19
7 Aniline	93	5.952	5.952	(0.933)	374397	10.0000	10.43
10 Phenol	94	5.899	5.899	(0.925)	297413	10.0000	10.31
11 bis(2-Chloroethyl)ether	93	6.038	6.038	(0.946)	233395	10.0000	10.52
12 2-Chlorophenol	128	6.102	6.102	(0.956)	232600	10.0000	10.35
13 1,3-Dichlorobenzene	146	6.305	6.305	(0.988)	252923	10.0000	10.36
14 1,4-Dichlorobenzene	146	6.401	6.401	(1.003)	258084	10.0000	10.45
15 Benzyl alcohol	108	6.551	6.551	(1.027)	148262	10.0000	10.01
16 1,2-Dichlorobenzene	146	6.594	6.594	(1.033)	245202	10.0000	10.60
17 2-Methylphenol	108	6.684	6.684	(1.048)	213987	10.0000	10.36
18 2,2'-Oxybis-1-chloropropane	45	6.732	6.732	(1.055)	348484	10.0000	10.47
19 3-Methylphenol	108	6.887	6.887	(1.080)	220648	10.0000	10.18
20 4-Methylphenol	108	6.887	6.887	(1.080)	220648	10.0000	10.18
21 N-Nitroso-di-n-propylamine	70	6.898	6.898	(1.081)	182433	10.0000	10.32
22 Hexachloroethane	117	7.032	7.032	(1.102)	96417	10.0000	10.32
* 33 Naphthalene-d8	136	8.020	8.020	(1.000)	2436460	40.0000	
$ 34 Nitrobenzene-d5	82	7.090	7.090	(0.884)	253808	10.0000	10.22
35 Nitrobenzene	77	7.112	7.112	(0.887)	256297	10.0000	10.24
39 Isophorone	82	7.427	7.427	(0.926)	469899	10.0000	10.36
40 2-Nitrophenol	139	7.523	7.523	(0.938)	118878	10.0000	10.05
42 2,4-Dimethylphenol	107	7.582	7.582	(0.945)	225499	10.0000	10.18
43 Benzoic acid	105	7.689	7.689	(0.959)	125876	10.0000	7.713

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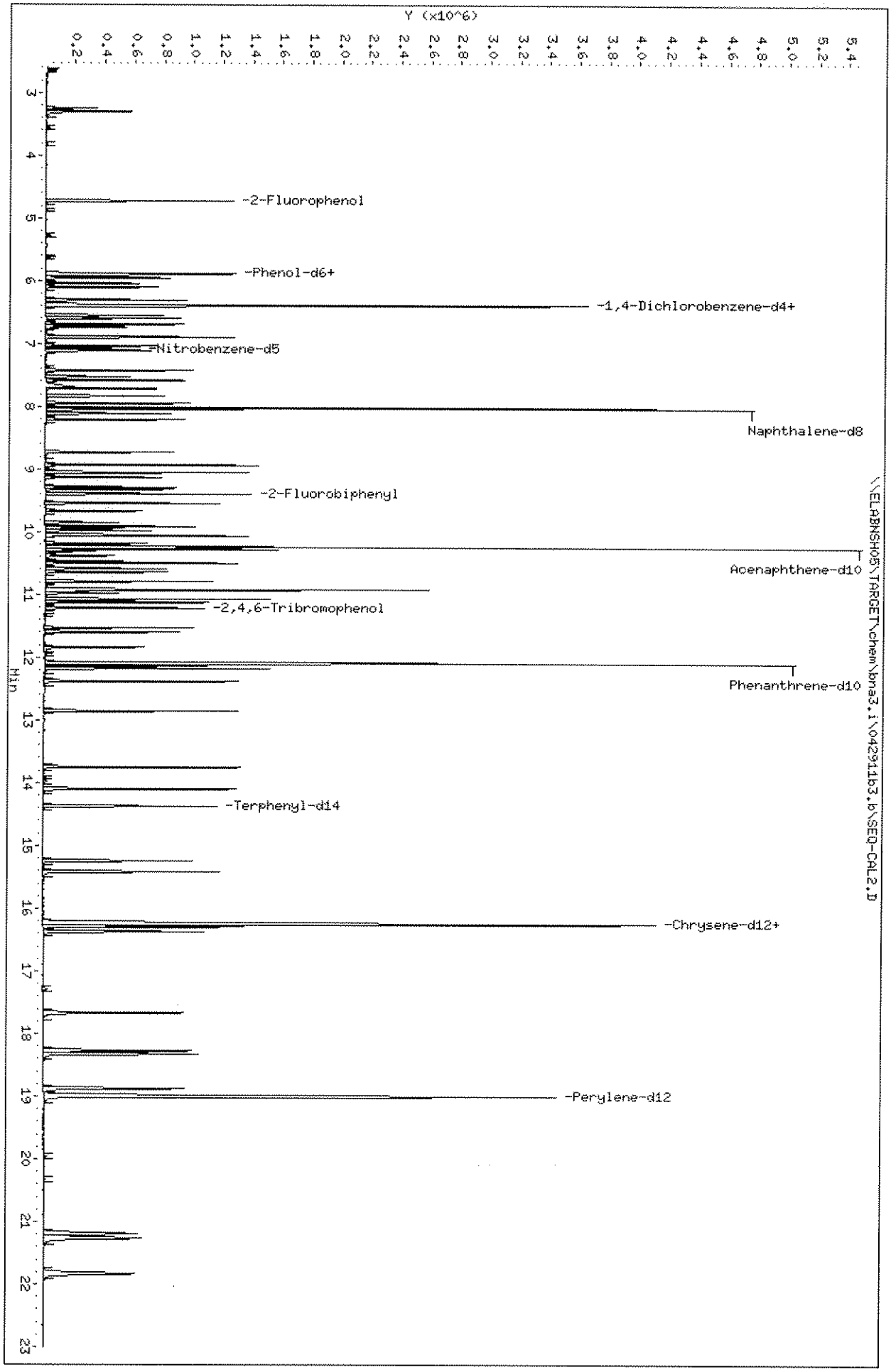
5/6/11

Data File: \\ELABNSH05\TARGET\chem\bna3.i\042911b3.b\SEQ-CAL2.D
Report Date: 30-Apr-2011 15:00

	Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	AMOUNTS CAL-AMT (ng/ul)	AMOUNTS ON-COL (ng/ul)
	44 bis(2-Chloroethoxy)methane	93	7.715	7.715	(0.962)	274704	10.0000	10.56
	47 2,4-Dichlorophenol	162	7.833	7.833	(0.977)	191586	10.0000	10.32
	50 1,2,4-Trichlorobenzene	180	7.945	7.945	(0.991)	218357	10.0000	10.48
	51 Naphthalene	128	8.047	8.047	(1.003)	652805	10.0000	10.76
	52 4-Chloroaniline	127	8.111	8.111	(1.011)	271279	10.0000	10.54
	53 Hexachlorobutadiene	225	8.207	8.207	(1.023)	117204	10.0000	10.30
	54 4-Chloro-3-methylphenol	107	8.725	8.725	(1.088)	192237	10.0000	10.14
	55 2-Methylnaphthalene	141	8.928	8.928	(1.113)	382416	10.0000	10.51
	56 1-Methylnaphthalene	141	9.051	9.051	(1.129)	376443	10.0000	10.52
*	69 Acenaphthene-d10	164	10.242	10.242	(1.000)	1439908	40.0000	
	70 Hexachlorocyclopentadiene	237	9.126	9.126	(0.891)	124524	10.0000	9.225
	71 2,4,6-Trichlorophenol	196	9.281	9.281	(0.906)	137433	10.0000	9.994
	72 2,4,5-Trichlorophenol	196	9.318	9.318	(0.910)	148750	10.0000	9.975
	73 2-Chloronaphthalene	162	9.542	9.542	(0.932)	415719	10.0000	10.62
$	74 2-Fluorobiphenyl	172	9.393	9.393	(0.917)	479530	10.0000	10.53
	75 2-Nitroaniline	65	9.665	9.665	(0.944)	133201	10.0000	10.00
	76 Dimethylphthalate	163	9.911	9.911	(0.968)	470699	10.0000	10.51
	77 Acenaphthylene	152	10.061	10.061	(0.982)	668352	10.0000	10.76
	78 2,6-Dinitrotoluene	165	9.980	9.980	(0.974)	111687	10.0000	10.37
	79 3-Nitroaniline	138	10.183	10.183	(0.994)	121610	10.0000	10.46
	80 Acenaphthene	153	10.280	10.280	(1.004)	414718	10.0000	10.38
	81 2,4-Dinitrophenol	184	10.312	10.312	(1.007)	50859	10.0000	7.619
	83 4-Nitrophenol	65	10.381	10.381	(1.014)	89796	10.0000	9.165
	84 Dibenzofuran	168	10.493	10.493	(1.025)	585185	10.0000	10.59
	85 2,4-Dinitrotoluene	165	10.477	10.477	(1.023)	143529	10.0000	10.14
	86 Diethylphthalate	149	10.787	10.787	(1.053)	454154	10.0000	10.56
	87 4-Chlorophenyl-phenylether	204	10.926	10.926	(1.067)	226495	10.0000	10.09
	88 Fluorene	166	10.921	10.921	(1.066)	495962	10.0000	10.30
	89 4-Nitroaniline	138	10.942	10.942	(1.068)	120979	10.0000	10.27
	96 2,3,4,6-Tetrachlorophenol	232	10.643	10.643	(1.039)	122038	10.0000	10.15
*	102 Phenanthrene-d10	188	12.091	12.091	(1.000)	2386233	40.0000	
	103 1,2-Diphenylhydrazine	77	11.118	11.118	(0.920)	533390	10.0000	10.51
	104 Carbazole	167	12.379	12.379	(1.024)	659648	10.0000	10.59
	105 4,6-Dinitro-2-methylphenol	198	10.979	10.979	(0.908)	77905	10.0000	8.980
	106 N-Nitrosodiphenylamine	169	11.070	11.070	(0.916)	419177	10.0000	10.44
$	107 2,4,6-Tribromophenol	330	11.214	11.214	(0.928)	127461	20.0000	19.45
	108 4-Bromophenyl-phenylether	248	11.530	11.530	(0.954)	139871	10.0000	10.26
	109 Hexachlorobenzene	284	11.599	11.599	(0.959)	150271	10.0000	10.31
	110 Pentachlorophenol	266	11.839	11.839	(0.979)	87025	10.0000	8.988
	111 Phenanthrene	178	12.112	12.112	(1.002)	682941	10.0000	10.64
	112 Anthracene	178	12.176	12.176	(1.007)	687219	10.0000	10.54
	115 Di-n-butylphthalate	149	12.854	12.854	(1.063)	753632	10.0000	10.69
	116 Fluoranthene	202	13.747	13.747	(1.137)	767107	10.0000	10.42
*	132 Chrysene-d12	240	16.247	16.247	(1.000)	2559360	40.0000	
	134 Pyrene	202	14.099	14.099	(0.868)	781941	10.0000	10.50
$	135 Terphenyl-d14	244	14.366	14.366	(0.884)	493476	10.0000	10.34
	136 Butylbenzylphthalate	149	15.242	15.242	(0.938)	329821	10.0000	10.05

Data File: \\ELABNSH05\TARGET\chem\bna3.i\042911b3.b\SEQ-CAL2.D
Report Date: 30-Apr-2011 15:00

Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	AMOUNTS CAL-AMT (ng/ul)	AMOUNTS ON-COL (ng/ul)
138 Benzo(a)anthracene	228	16.220	16.220	(0.998)	727905	10.0000	10.16
139 Chrysene	228	16.289	16.289	(1.003)	698674	10.0000	10.42
140 Bis(2-ethylhexyl)phthalate	149	16.370	16.370	(1.008)	445360	10.0000	10.25
* 154 Perylene-d12	264	19.003	19.003	(1.000)	2562755	40.0000	
155 Di-n-octylphthalate	149	17.662	17.662	(0.929)	752274	10.0000	9.749
156 Benzo(b)fluoranthene	252	18.271	18.271	(0.961)	679440	10.0000	9.696
157 Benzo(k)fluoranthene	252	18.330	18.330	(0.965)	743246	10.0000	10.47
158 Benzo(a)pyrene	252	18.880	18.880	(0.994)	672544	10.0000	10.04
159 Indeno(1,2,3-cd)pyrene	276	21.194	21.194	(1.115)	616427	10.0000	9.269
160 Dibenz(a,h)anthracene	278	21.263	21.263	(1.119)	609041	10.0000	9.464
161 Benzo(g,h,i)perylene	276	21.835	21.835	(1.149)	658234	10.0000	9.944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-Phenol-d6+
-1,4-Dichlorobenzene-d4+
Nitrobenzene-d5
Naphthalene-d8
-2-Fluorobiphenyl
Acenaphthene-d10
-2,4,6-Tribromophenol
Phenanthrene-d10
-Terphenyl-d14
-Chrysene-d12+
-Perylene-d12

Data File: \\ELABNSH05\TARGET\chem\bna3.i\042911b3.b\SEQ-CAL3.D
Report Date: 30-Apr-2011 15:00

Laboratory Name

Data file : \\ELABNSH05\TARGET\chem\bna3.i\042911b3.b\SEQ-CAL3.D
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Processing Host: TARGET09_VM

Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	AMOUNTS CAL-AMT (ng/ul)	AMOUNTS ON-COL (ng/ul)
* 1 1,4-Dichlorobenzene-d4	152	6.383	6.383	(1.000)	814971	40.0000	
$ 2 2-Fluorophenol	112	4.733	4.733	(0.741)	990794	40.0000	42.58
$ 3 Phenol-d6	99	5.897	5.897	(0.924)	1369018	40.0000	42.72
4 Pyridine	79	3.322	3.322	(0.520)	638173	20.0000	21.12
6 N-Nitroso-di-methylamine	42	3.279	3.279	(0.514)	292554	20.0000	20.97
7 Aniline	93	5.961	5.961	(0.934)	907249	20.0000	21.21
10 Phenol	94	5.913	5.913	(0.926)	725488	20.0000	21.10
11 bis(2-Chloroethyl)ether	93	6.047	6.047	(0.947)	559622	20.0000	21.16
12 2-Chlorophenol	128	6.105	6.105	(0.956)	566977	20.0000	21.16
13 1,3-Dichlorobenzene	146	6.308	6.308	(0.988)	619346	20.0000	21.29
14 1,4-Dichlorobenzene	146	6.405	6.405	(1.003)	620828	20.0000	21.09
15 Benzyl alcohol	108	6.560	6.560	(1.028)	383537	20.0000	21.72
16 1,2-Dichlorobenzene	146	6.597	6.597	(1.033)	581434	20.0000	21.08
17 2-Methylphenol	108	6.693	6.693	(1.049)	520421	20.0000	21.13
18 2,2'-Oxybis-1-chloropropane	45	6.736	6.736	(1.055)	851735	20.0000	21.47
19 3-Methylphenol	108	6.896	6.896	(1.080)	548766	20.0000	21.23
20 4-Methylphenol	108	6.896	6.896	(1.080)	548766	20.0000	21.23
21 N-Nitroso-di-n-propylamine	70	6.912	6.912	(1.083)	446470	20.0000	21.19
22 Hexachloroethane	117	7.035	7.035	(1.102)	233451	20.0000	20.97
* 33 Naphthalene-d8	136	8.023	8.023	(1.000)	2891640	40.0000	
$ 34 Nitrobenzene-d5	82	7.094	7.094	(0.884)	625463	20.0000	21.23
35 Nitrobenzene	77	7.120	7.120	(0.887)	632709	20.0000	21.30
39 Isophorone	82	7.436	7.436	(0.927)	1139853	20.0000	21.18
40 2-Nitrophenol	139	7.526	7.526	(0.938)	301474	20.0000	21.48
42 2,4-Dimethylphenol	107	7.585	7.585	(0.945)	553682	20.0000	21.06
43 Benzoic acid	105	7.740	7.740	(0.965)	395505	20.0000	20.42

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Data File: \\ELABNSH05\TARGET\chem\bna3.i\042911b3.b\SEQ-CAL3.D
Report Date: 30-Apr-2011 15:00

	Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	AMOUNTS CAL-AMT (ng/ul)	AMOUNTS ON-COL (ng/ul)
	44 bis(2-Chloroethoxy)methane	93	7.719	7.719	(0.962)	666189	20.0000	21.58
	47 2,4-Dichlorophenol	162	7.836	7.836	(0.977)	466569	20.0000	21.18
	50 1,2,4-Trichlorobenzene	180	7.949	7.949	(0.991)	524049	20.0000	21.18
	51 Naphthalene	128	8.050	8.050	(1.003)	1555456	20.0000	21.60
	52 4-Chloroaniline	127	8.114	8.114	(1.011)	661443	20.0000	21.65
	53 Hexachlorobutadiene	225	8.205	8.205	(1.023)	285843	20.0000	21.16
	54 4-Chloro-3-methylphenol	107	8.728	8.728	(1.088)	479326	20.0000	21.30
	55 2-Methylnaphthalene	141	8.931	8.931	(1.113)	926020	20.0000	21.44
	56 1-Methylnaphthalene	141	9.054	9.054	(1.128)	902181	20.0000	21.25
*	69 Acenaphthene-d10	164	10.246	10.246	(1.000)	1708666	40.0000	
	70 Hexachlorocyclopentadiene	237	9.129	9.129	(0.891)	330482	20.0000	20.63
	71 2,4,6-Trichlorophenol	196	9.284	9.284	(0.906)	340898	20.0000	20.89
	72 2,4,5-Trichlorophenol	196	9.321	9.321	(0.910)	375983	20.0000	21.25
	73 2-Chloronaphthalene	162	9.546	9.546	(0.932)	980374	20.0000	21.10
$	74 2-Fluorobiphenyl	172	9.396	9.396	(0.917)	1130766	20.0000	20.92
	75 2-Nitroaniline	65	9.674	9.674	(0.944)	329193	20.0000	20.83
	76 Dimethylphthalate	163	9.920	9.920	(0.968)	1114578	20.0000	20.97
	77 Acenaphthylene	152	10.064	10.064	(0.982)	1566866	20.0000	21.26
	78 2,6-Dinitrotoluene	165	9.989	9.989	(0.975)	269328	20.0000	21.07
	79 3-Nitroaniline	138	10.192	10.192	(0.995)	290491	20.0000	21.05
	80 Acenaphthene	153	10.283	10.283	(1.004)	982225	20.0000	20.71
	81 2,4-Dinitrophenol	184	10.320	10.320	(1.007)	157952	20.0000	19.94
	83 4-Nitrophenol	65	10.390	10.390	(1.014)	241682	20.0000	20.79
	84 Dibenzofuran	168	10.497	10.497	(1.025)	1371398	20.0000	20.91
	85 2,4-Dinitrotoluene	165	10.486	10.486	(1.023)	348788	20.0000	20.78
	86 Diethylphthalate	149	10.791	10.791	(1.053)	1072118	20.0000	21.01
	87 4-Chlorophenyl-phenylether	204	10.924	10.924	(1.066)	541382	20.0000	20.33
	88 Fluorene	166	10.924	10.924	(1.066)	1190766	20.0000	20.84
	89 4-Nitroaniline	138	10.945	10.945	(1.068)	297279	20.0000	21.26
	96 2,3,4,6-Tetrachlorophenol	232	10.646	10.646	(1.039)	299356	20.0000	20.98
*	102 Phenanthrene-d10	188	12.089	12.089	(1.000)	2805299	40.0000	
	103 1,2-Diphenylhydrazine	77	11.122	11.122	(0.920)	1265596	20.0000	21.21
	104 Carbazole	167	12.382	12.382	(1.024)	1520170	20.0000	20.75
	105 4,6-Dinitro-2-methylphenol	198	10.988	10.988	(0.909)	216017	20.0000	21.18
	106 N-Nitrosodiphenylamine	169	11.074	11.074	(0.916)	985023	20.0000	20.87
$	107 2,4,6-Tribromophenol	330	11.223	11.223	(0.928)	312559	40.0000	40.56
	108 4-Bromophenyl-phenylether	248	11.533	11.533	(0.954)	332437	20.0000	20.75
	109 Hexachlorobenzene	284	11.603	11.603	(0.960)	354033	20.0000	20.66
	110 Pentachlorophenol	266	11.843	11.843	(0.980)	241563	20.0000	21.22
	111 Phenanthrene	178	12.115	12.115	(1.002)	1591762	20.0000	21.10
	112 Anthracene	178	12.179	12.179	(1.008)	1609583	20.0000	21.00
	115 Di-n-butylphthalate	149	12.858	12.858	(1.064)	1774961	20.0000	21.41
	116 Fluoranthene	202	13.750	13.750	(1.137)	1822818	20.0000	21.06
*	132 Chrysene-d12	240	16.250	16.250	(1.000)	2995696	40.0000	
	134 Pyrene	202	14.103	14.103	(0.868)	1859510	20.0000	21.34
$	135 Terphenyl-d14	244	14.370	14.370	(0.884)	1178352	20.0000	21.08
	136 Butylbenzylphthalate	149	15.246	15.246	(0.938)	817204	20.0000	21.27

Data File: \\ELABNSH05\TARGET\chem\bna3.i\042911b3.b\SEQ-CAL3.D
Report Date: 30-Apr-2011 15:00

Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	AMOUNTS CAL-AMT (ng/ul)	AMOUNTS ON-COL (ng/ul)
138 Benzo(a)anthracene	228	16.223	16.223	(0.998)	1793994	20.0000	21.40
139 Chrysene	228	16.293	16.293	(1.003)	1658164	20.0000	21.13
140 Bis(2-ethylhexyl)phthalate	149	16.368	16.368	(1.007)	1084520	20.0000	21.32
* 154 Perylene-d12	264	19.001	19.001	(1.000)	2979812	40.0000	
155 Di-n-octylphthalate	149	17.666	17.666	(0.930)	1916610	20.0000	21.36
156 Benzo(b)fluoranthene	252	18.286	18.286	(0.962)	1719041	20.0000	21.10
157 Benzo(k)fluoranthene	252	18.339	18.339	(0.965)	1716171	20.0000	20.80
158 Benzo(a)pyrene	252	18.884	18.884	(0.994)	1623122	20.0000	20.83
159 Indeno(1,2,3-cd)pyrene	276	21.208	21.208	(1.116)	1584990	20.0000	20.50
160 Dibenz(a,h)anthracene	278	21.277	21.277	(1.120)	1584302	20.0000	21.17
161 Benzo(g,h,i)perylene	276	21.854	21.854	(1.150)	1623509	20.0000	21.09

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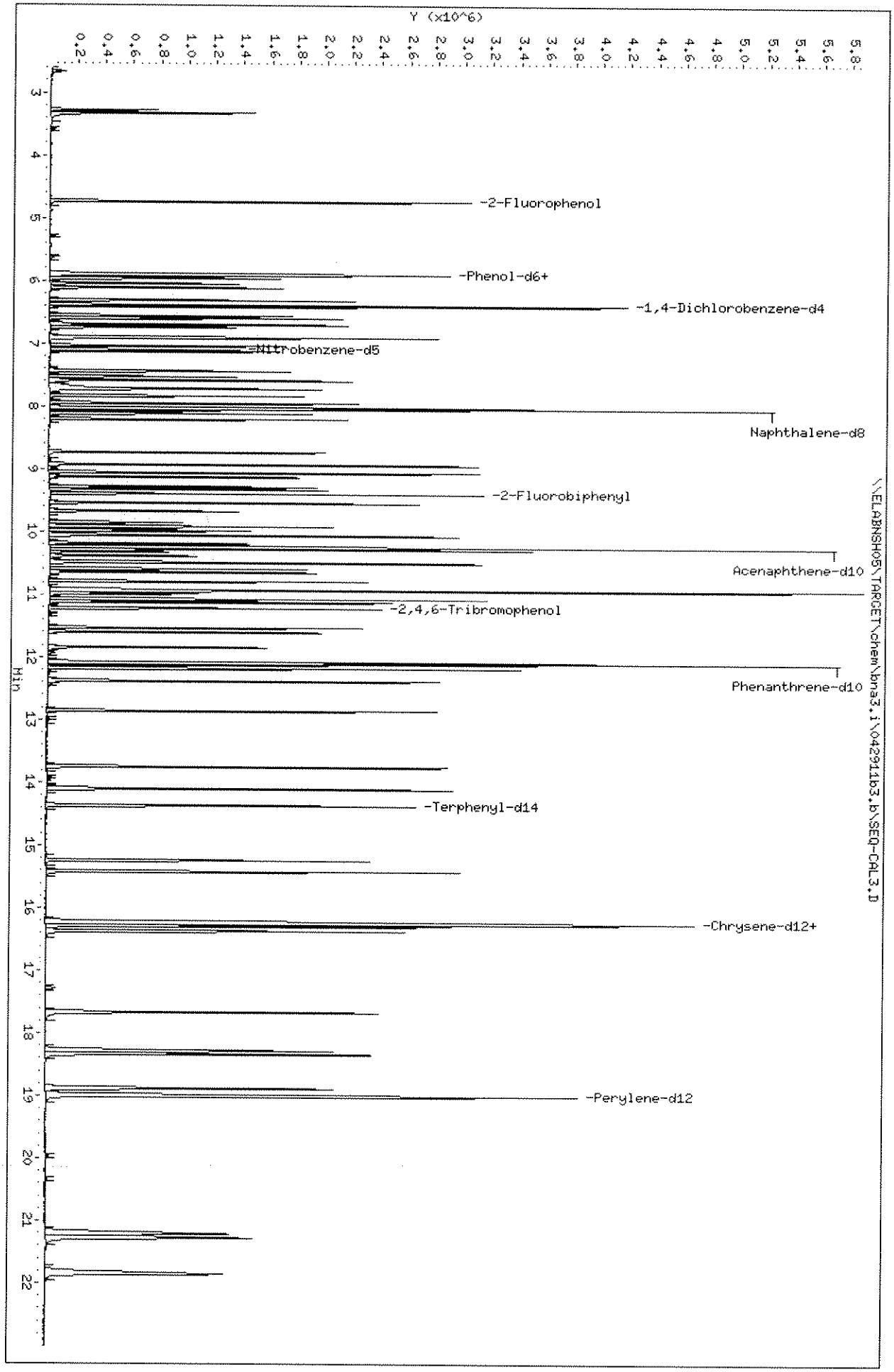

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Report Date: 30-Apr-2011 15:00

Laboratory Name

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Processing Host: TARGET09_VM

Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	AMOUNTS CAL-AMT (ng/ul)	AMOUNTS ON-COL (ng/ul)
* 1 1,4-Dichlorobenzene-d4	152	6.397	6.397	(1.000)	869244	40.0000	
$ 2 2-Fluorophenol	112	4.751	4.751	(0.743)	1864232	80.0000	75.11
$ 3 Phenol-d6	99	5.921	5.921	(0.926)	2546627	80.0000	74.50
4 Pyridine	79	3.341	3.341	(0.522)	1233965	40.0000	38.29
6 N-Nitroso-di-methylamine	42	3.298	3.298	(0.516)	565254	40.0000	37.99
7 Aniline	93	5.985	5.985	(0.936)	1722879	40.0000	37.76
10 Phenol	94	5.937	5.937	(0.928)	1370867	40.0000	37.38
11 bis(2-Chloroethyl)ether	93	6.065	6.065	(0.948)	1049997	40.0000	37.23
12 2-Chlorophenol	128	6.129	6.129	(0.958)	1067895	40.0000	37.37
13 1,3-Dichlorobenzene	146	6.322	6.322	(0.988)	1148162	40.0000	37.00
14 1,4-Dichlorobenzene	146	6.423	6.423	(1.004)	1172697	40.0000	37.35
15 Benzyl alcohol	108	6.584	6.584	(1.029)	702516	40.0000	37.30
16 1,2-Dichlorobenzene	146	6.610	6.610	(1.033)	1091638	40.0000	37.11
17 2-Methylphenol	108	6.712	6.712	(1.049)	983950	40.0000	37.46
18 2,2'-Oxybis-1-chloropropane	45	6.754	6.754	(1.056)	1566178	40.0000	37.01
19 3-Methylphenol	108	6.925	6.925	(1.083)	1034591	40.0000	37.53
20 4-Methylphenol	108	6.925	6.925	(1.083)	1034591	40.0000	37.53
21 N-Nitroso-di-n-propylamine	70	6.947	6.947	(1.086)	837966	40.0000	37.29
22 Hexachloroethane	117	7.048	7.048	(1.102)	442835	40.0000	37.29
* 33 Naphthalene-d8	136	8.037	8.037	(1.000)	3033838	40.0000	
$ 34 Nitrobenzene-d5	82	7.112	7.112	(0.885)	1182018	40.0000	38.24
35 Nitrobenzene	77	7.139	7.139	(0.888)	1185773	40.0000	38.06
39 Isophorone	82	7.465	7.465	(0.929)	2134222	40.0000	37.81
40 2-Nitrophenol	139	7.545	7.545	(0.939)	567398	40.0000	38.53
42 2,4-Dimethylphenol	107	7.604	7.604	(0.946)	1036287	40.0000	37.57
43 Benzoic acid	105	7.796	7.796	(0.970)	803344	40.0000	39.53

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Data File: \\ELABNSH05\TARGET\chem\bna3.i\042911b3.b\SEQ-CAL4.D
Report Date: 30-Apr-2011 15:00

	Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	AMOUNTS CAL-AMT (ng/ul)	AMOUNTS ON-COL (ng/ul)
	44 bis(2-Chloroethoxy)methane	93	7.732	7.732	(0.962)	1219350	40.0000	37.65
	47 2,4-Dichlorophenol	162	7.855	7.855	(0.977)	874607	40.0000	37.85
	50 1,2,4-Trichlorobenzene	180	7.962	7.962	(0.991)	973774	40.0000	37.52
	51 Naphthalene	128	8.063	8.063	(1.003)	2811066	40.0000	37.22
	52 4-Chloroaniline	127	8.133	8.133	(1.012)	1207621	40.0000	37.68
	53 Hexachlorobutadiene	225	8.218	8.218	(1.023)	533397	40.0000	37.64
	54 4-Chloro-3-methylphenol	107	8.747	8.747	(1.088)	900643	40.0000	38.14
	55 2-Methylnaphthalene	141	8.945	8.945	(1.113)	1688309	40.0000	37.26
	56 1-Methylnaphthalene	141	9.068	9.068	(1.128)	1660632	40.0000	37.28
*	69 Acenaphthene-d10	164	10.259	10.259	(1.000)	1785083	40.0000	
	70 Hexachlorocyclopentadiene	237	9.142	9.142	(0.891)	639033	40.0000	38.19
	71 2,4,6-Trichlorophenol	196	9.297	9.297	(0.906)	641270	40.0000	37.62
	72 2,4,5-Trichlorophenol	196	9.340	9.340	(0.910)	689519	40.0000	37.30
	73 2-Chloronaphthalene	162	9.559	9.559	(0.932)	1765095	40.0000	36.36
$	74 2-Fluorobiphenyl	172	9.410	9.410	(0.917)	2074705	40.0000	36.74
	75 2-Nitroaniline	65	9.693	9.693	(0.945)	623586	40.0000	37.76
	76 Dimethylphthalate	163	9.944	9.944	(0.969)	2058728	40.0000	37.07
	77 Acenaphthylene	152	10.083	10.083	(0.983)	2815980	40.0000	36.58
	78 2,6-Dinitrotoluene	165	10.008	10.008	(0.976)	493990	40.0000	37.00
	79 3-Nitroaniline	138	10.211	10.211	(0.995)	537098	40.0000	37.25
	80 Acenaphthene	153	10.302	10.302	(1.004)	1812020	40.0000	36.57
	81 2,4-Dinitrophenol	184	10.339	10.339	(1.008)	321928	40.0000	38.90
	83 4-Nitrophenol	65	10.414	10.414	(1.015)	474077	40.0000	39.03
	84 Dibenzofuran	168	10.515	10.515	(1.025)	2482137	40.0000	36.23
	85 2,4-Dinitrotoluene	165	10.510	10.510	(1.024)	645101	40.0000	36.78
	86 Diethylphthalate	149	10.809	10.809	(1.054)	1938094	40.0000	36.35
	87 4-Chlorophenyl-phenylether	204	10.943	10.943	(1.067)	1022896	40.0000	36.77
	88 Fluorene	166	10.943	10.943	(1.067)	2200222	40.0000	36.86
	89 4-Nitroaniline	138	10.975	10.975	(1.070)	556303	40.0000	38.09
	96 2,3,4,6-Tetrachlorophenol	232	10.665	10.665	(1.040)	547402	40.0000	36.72
*	102 Phenanthrene-d10	188	12.102	12.102	(1.000)	2890263	40.0000	
	103 1,2-Diphenylhydrazine	77	11.140	11.140	(0.921)	2286376	40.0000	37.20
	104 Carbazole	167	12.401	12.401	(1.025)	2799504	40.0000	37.10
	105 4,6-Dinitro-2-methylphenol	198	11.012	11.012	(0.910)	420247	40.0000	40.00
	106 N-Nitrosodiphenylamine	169	11.092	11.092	(0.917)	1800448	40.0000	37.03
$	107 2,4,6-Tribromophenol	330	11.242	11.242	(0.929)	596829	80.0000	75.18
	108 4-Bromophenyl-phenylether	248	11.546	11.546	(0.954)	613658	40.0000	37.17
	109 Hexachlorobenzene	284	11.616	11.616	(0.960)	658427	40.0000	37.29
	110 Pentachlorophenol	266	11.862	11.862	(0.980)	449451	40.0000	38.32
	111 Phenanthrene	178	12.134	12.134	(1.003)	2861742	40.0000	36.81
	112 Anthracene	178	12.198	12.198	(1.008)	2922097	40.0000	37.01
	115 Di-n-butylphthalate	149	12.871	12.871	(1.064)	3159293	40.0000	36.99
	116 Fluoranthene	202	13.774	13.774	(1.138)	3324544	40.0000	37.29
*	132 Chrysene-d12	240	16.274	16.274	(1.000)	3117288	40.0000	
	134 Pyrene	202	14.127	14.127	(0.868)	3375149	40.0000	37.21
$	135 Terphenyl-d14	244	14.388	14.388	(0.884)	2170088	40.0000	37.32
	136 Butylbenzylphthalate	149	15.265	15.265	(0.938)	1513360	40.0000	37.86

Data File: \\ELABNSH05\TARGET\chem\bna3.i\042911b3.b\SEQ-CAL4.D
Report Date: 30-Apr-2011 15:00

Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	AMOUNTS CAL-AMT (ng/ul)	AMOUNTS ON-COL (ng/ul)
138 Benzo(a)anthracene	228	16.253	16.253	(0.999)	3327860	40.0000	38.15
139 Chrysene	228	16.322	16.322	(1.003)	2996518	40.0000	36.69
140 Bis(2-ethylhexyl)phthalate	149	16.392	16.392	(1.007)	1992620	40.0000	37.64
* 154 Perylene-d12	264	19.031	19.031	(1.000)	3094041	40.0000	
155 Di-n-octylphthalate	149	17.690	17.690	(0.930)	3565437	40.0000	38.27
156 Benzo(b)fluoranthene	252	18.315	18.315	(0.962)	3262030	40.0000	38.56
157 Benzo(k)fluoranthene	252	18.368	18.368	(0.965)	3098004	40.0000	36.16
158 Benzo(a)pyrene	252	18.919	18.919	(0.994)	3027253	40.0000	37.42
159 Indeno(1,2,3-cd)pyrene	276	21.258	21.258	(1.117)	3120636	40.0000	38.87
160 Dibenz(a,h)anthracene	278	21.328	21.328	(1.121)	2950525	40.0000	37.97
161 Benzo(g,h,i)perylene	276	21.910	21.910	(1.151)	3020534	40.0000	37.80

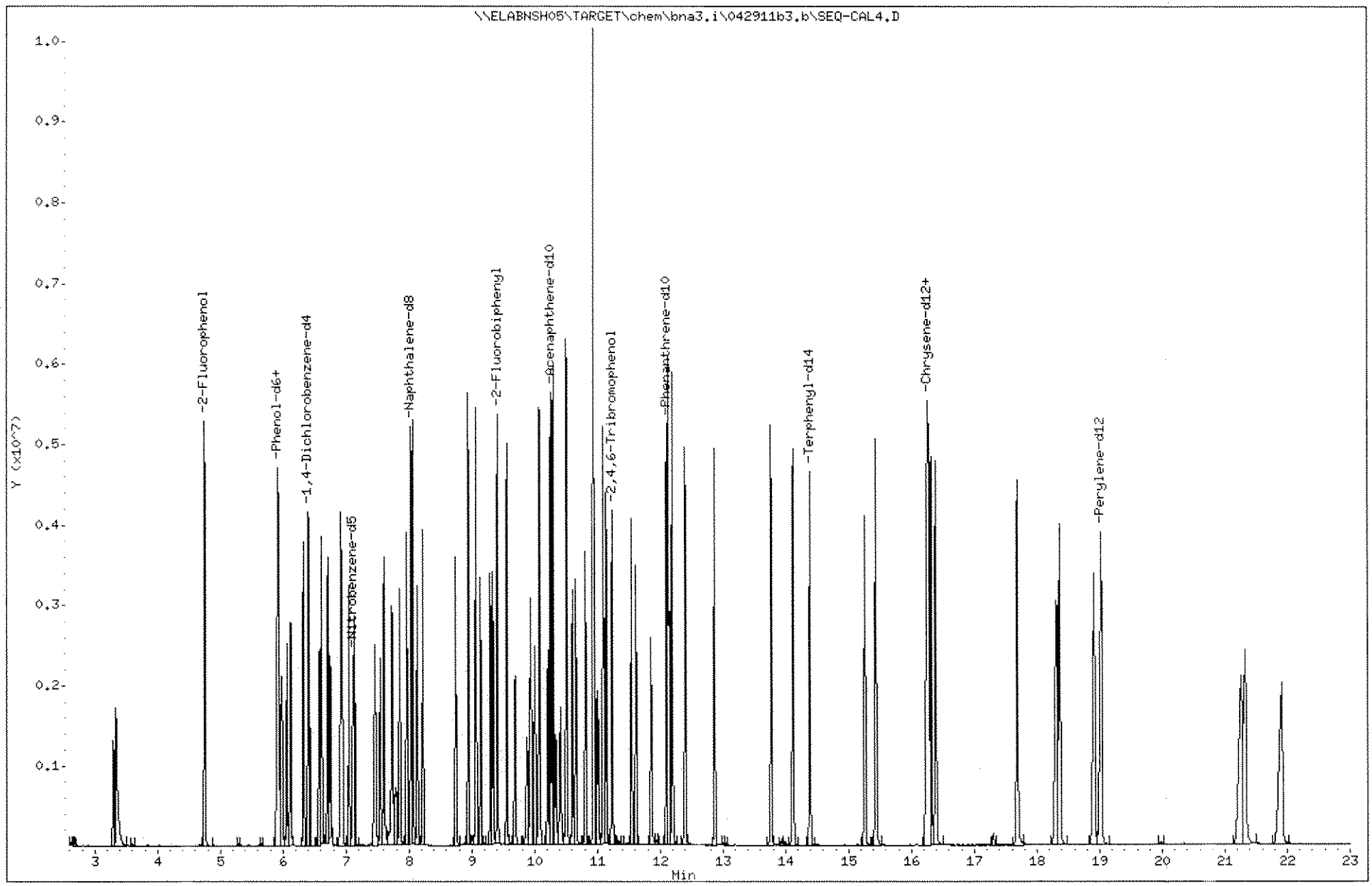
Data File: \\ELABNSH05\TARGET\chem\bna3.i\042911b3.b\SEQ-CAL4.D
Date : 29-APR-2011 19:25
Client ID: SEQ-CAL4
Sample Info: CAL40.0PPM;;;;;;11D0219

Instrument: bna3.i

Operator: MEC

Column phase: fused silica

Column diameter: 0.25



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1110003

Data File: \\ELABNSH05\TARGET\chem\bna3.i\042911b3.b\SEQ-CAL5.D
Report Date: 30-Apr-2011 15:14

Laboratory Name

Data file : \\ELABNSH05\TARGET\chem\bna3.i\042911b3.b\SEQ-CAL5.D
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Inj Date : 29-APR-2011 19:58 MS Autotune Date: 07-SEP-2010 05:33
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Processing Host: TARGET09_VM

Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	AMOUNTS CAL-AMT (ng/ul)	AMOUNTS ON-COL (ng/ul)
* 1 1,4-Dichlorobenzene-d4	152	6.389	6.389	(1.000)	473419	40.0000	
$ 2 2-Fluorophenol	112	4.738	4.738	(0.742)	1297778	100.000	96.00
$ 3 Phenol-d6	99	5.908	5.908	(0.925)	1790905	100.000	96.20
4 Pyridine	79	3.306	3.306	(0.518)	845986	50.0000	48.20
6 N-Nitroso-di-methylamine	42	3.264	3.264	(0.511)	390059	50.0000	48.14
7 Aniline	93	5.967	5.967	(0.934)	1168312	50.0000	47.02
10 Phenol	94	5.924	5.924	(0.927)	950343	50.0000	47.58
11 bis(2-Chloroethyl)ether	93	6.052	6.052	(0.947)	733690	50.0000	47.76
12 2-Chlorophenol	128	6.116	6.116	(0.957)	744640	50.0000	47.84
13 1,3-Dichlorobenzene	146	6.314	6.314	(0.988)	801916	50.0000	47.46
14 1,4-Dichlorobenzene	146	6.416	6.416	(1.004)	816369	50.0000	47.74
15 Benzyl alcohol	108	6.565	6.565	(1.028)	493935	50.0000	48.15
16 1,2-Dichlorobenzene	146	6.603	6.603	(1.033)	765473	50.0000	47.78
17 2-Methylphenol	108	6.699	6.699	(1.048)	691123	50.0000	48.31
18 2,2'-Oxybis-1-chloropropane	45	6.747	6.747	(1.056)	1108370	50.0000	48.10
19 3-Methylphenol	108	6.907	6.907	(1.081)	713997	50.0000	47.56
20 4-Methylphenol	108	6.907	6.907	(1.081)	713997	50.0000	47.56
21 N-Nitroso-di-n-propylamine	70	6.923	6.923	(1.084)	586503	50.0000	47.93
22 Hexachloroethane	117	7.041	7.041	(1.102)	308615	50.0000	47.72
* 33 Naphthalene-d8	136	8.029	8.029	(1.000)	1697246	40.0000	
$ 34 Nitrobenzene-d5	82	7.105	7.105	(0.885)	818001	50.0000	47.30
35 Nitrobenzene	77	7.131	7.131	(0.888)	830342	50.0000	47.64
39 Isophorone	82	7.447	7.447	(0.927)	1487901	50.0000	47.11
40 2-Nitrophenol	139	7.537	7.537	(0.939)	394455	50.0000	47.88
42 2,4-Dimethylphenol	107	7.596	7.596	(0.946)	729832	50.0000	47.30
43 Benzoic acid	105	7.772	7.772	(0.968)	554962	50.0000	48.81

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Data File: \\ELABNSH05\TARGET\chem\bna3.i\042911b3.b\SEQ-CAL5.D
Report Date: 30-Apr-2011 15:14

Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	AMOUNTS CAL-AMT (ng/ul)	AMOUNTS ON-COL (ng/ul)
44 bis(2-Chloroethoxy)methane	93	7.730	7.730	(0.963)	849555	50.0000	46.89
47 2,4-Dichlorophenol	162	7.847	7.847	(0.977)	614804	50.0000	47.56
50 1,2,4-Trichlorobenzene	180	7.954	7.954	(0.991)	680855	50.0000	46.89
51 Naphthalene	128	8.056	8.056	(1.003)	2000650	50.0000	47.34
52 4-Chloroaniline	127	8.125	8.125	(1.012)	856103	50.0000	47.75
53 Hexachlorobutadiene	225	8.216	8.216	(1.023)	378092	50.0000	47.69
54 4-Chloro-3-methylphenol	107	8.739	8.739	(1.088)	624328	50.0000	47.26
55 2-Methylnaphthalene	141	8.937	8.937	(1.113)	1193824	50.0000	47.10
56 1-Methylnaphthalene	141	9.065	9.065	(1.129)	1177455	50.0000	47.25
* 69 Acenaphthene-d10	164	10.251	10.251	(1.000)	970176	40.0000	
70 Hexachlorocyclopentadiene	237	9.135	9.135	(0.891)	449072	50.0000	49.38
71 2,4,6-Trichlorophenol	196	9.290	9.290	(0.906)	441995	50.0000	47.70
72 2,4,5-Trichlorophenol	196	9.332	9.332	(0.910)	489047	50.0000	48.67
73 2-Chloronaphthalene	162	9.551	9.551	(0.932)	1260245	50.0000	47.77
$ 74 2-Fluorobiphenyl	172	9.407	9.407	(0.918)	1482433	50.0000	48.30
75 2-Nitroaniline	65	9.680	9.680	(0.944)	436347	50.0000	48.62
76 Dimethylphthalate	163	9.931	9.931	(0.969)	1444685	50.0000	47.86
77 Acenaphthylene	152	10.075	10.075	(0.983)	2000565	50.0000	47.81
78 2,6-Dinitrotoluene	165	10.000	10.000	(0.976)	348759	50.0000	48.06
79 3-Nitroaniline	138	10.203	10.203	(0.995)	378578	50.0000	48.31
80 Acenaphthene	153	10.294	10.294	(1.004)	1292747	50.0000	48.00
81 2,4-Dinitrophenol	184	10.331	10.331	(1.008)	220727	50.0000	49.08
83 4-Nitrophenol	65	10.401	10.401	(1.015)	332741	50.0000	50.40
84 Dibenzofuran	168	10.508	10.508	(1.025)	1778526	50.0000	47.77
85 2,4-Dinitrotoluene	165	10.497	10.497	(1.024)	454640	50.0000	47.70
86 Diethylphthalate	149	10.801	10.801	(1.054)	1397552	50.0000	48.23
87 4-Chlorophenyl-phenylether	204	10.935	10.935	(1.067)	716462	50.0000	47.39
88 Fluorene	166	10.935	10.935	(1.067)	1556652	50.0000	47.98
89 4-Nitroaniline	138	10.967	10.967	(1.070)	394823	50.0000	49.74
96 2,3,4,6-Tetrachlorophenol	232	10.657	10.657	(1.040)	388908	50.0000	48.00
* 102 Phenanthrene-d10	188	12.094	12.094	(1.000)	1609148	40.0000	
103 1,2-Diphenylhydrazine	77	11.133	11.133	(0.920)	1632827	50.0000	47.71
104 Carbazole	167	12.393	12.393	(1.025)	1992085	50.0000	47.41
105 4,6-Dinitro-2-methylphenol	198	11.004	11.004	(0.910)	294135	50.0000	50.28
106 N-Nitrosodiphenylamine	169	11.090	11.090	(0.917)	1287300	50.0000	47.56
$ 107 2,4,6-Tribromophenol	330	11.234	11.234	(0.929)	416585	100.000	94.25
108 4-Bromophenyl-phenylether	248	11.544	11.544	(0.955)	435156	50.0000	47.34
109 Hexachlorobenzene	284	11.608	11.608	(0.960)	463588	50.0000	47.16
110 Pentachlorophenol	266	11.854	11.854	(0.980)	321666	50.0000	49.26
111 Phenanthrene	178	12.126	12.126	(1.003)	2057105	50.0000	47.53
112 Anthracene	178	12.190	12.190	(1.008)	2095521	50.0000	47.67
115 Di-n-butylphthalate	149	12.869	12.869	(1.064)	2293963	50.0000	48.24
116 Fluoranthene	202	13.766	13.766	(1.138)	2370526	50.0000	47.76
* 132 Chrysene-d12	240	16.261	16.261	(1.000)	1722869	40.0000	
134 Pyrene	202	14.119	14.119	(0.868)	2402362	50.0000	47.93
$ 135 Terphenyl-d14	244	14.381	14.381	(0.884)	1538383	50.0000	47.86
136 Butylbenzylphthalate	149	15.257	15.257	(0.938)	1078203	50.0000	48.80

Data File: \\ELABNSH05\TARGET\chem\bna3.i\042911b3.b\SEQ-CAL5.D
Report Date: 30-Apr-2011 15:14

Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	AMOUNTS CAL-AMT (ng/ul)	AMOUNTS ON-COL (ng/ul)
138 Benzo(a)anthracene	228	16.240	16.240	(0.999)	2294603	50.0000	47.60
139 Chrysene	228	16.315	16.315	(1.003)	2184545	50.0000	48.40
140 Bis(2-ethylhexyl)phthalate	149	16.384	16.384	(1.008)	1437915	50.0000	49.14
* 154 Perylene-d12	264	19.012	19.012	(1.000)	1702026	40.0000	
155 Di-n-octylphthalate	149	17.682	17.682	(0.930)	2525772	50.0000	49.29
156 Benzo(b)fluoranthene	252	18.302	18.302	(0.963)	2214472	50.0000	47.58
157 Benzo(k)fluoranthene	252	18.361	18.361	(0.966)	2267046	50.0000	48.10
158 Benzo(a)pyrene	252	18.905	18.905	(0.994)	2159424	50.0000	48.52
159 Indeno(1,2,3-cd)pyrene	276	21.240	21.240	(1.117)	2095396	50.0000	47.44
160 Dibenz(a,h)anthracene	278	21.309	21.309	(1.121)	2088589	50.0000	48.86
161 Benzo(g,h,i)perylene	276	21.897	21.897	(1.152)	2118349	50.0000	48.19

Data File: \\ELABNSH05\TARGET\chem\bna3.i\042911b3.b\SEQ-CAL5.D
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Instrument: bna3.i

Operator: MEC

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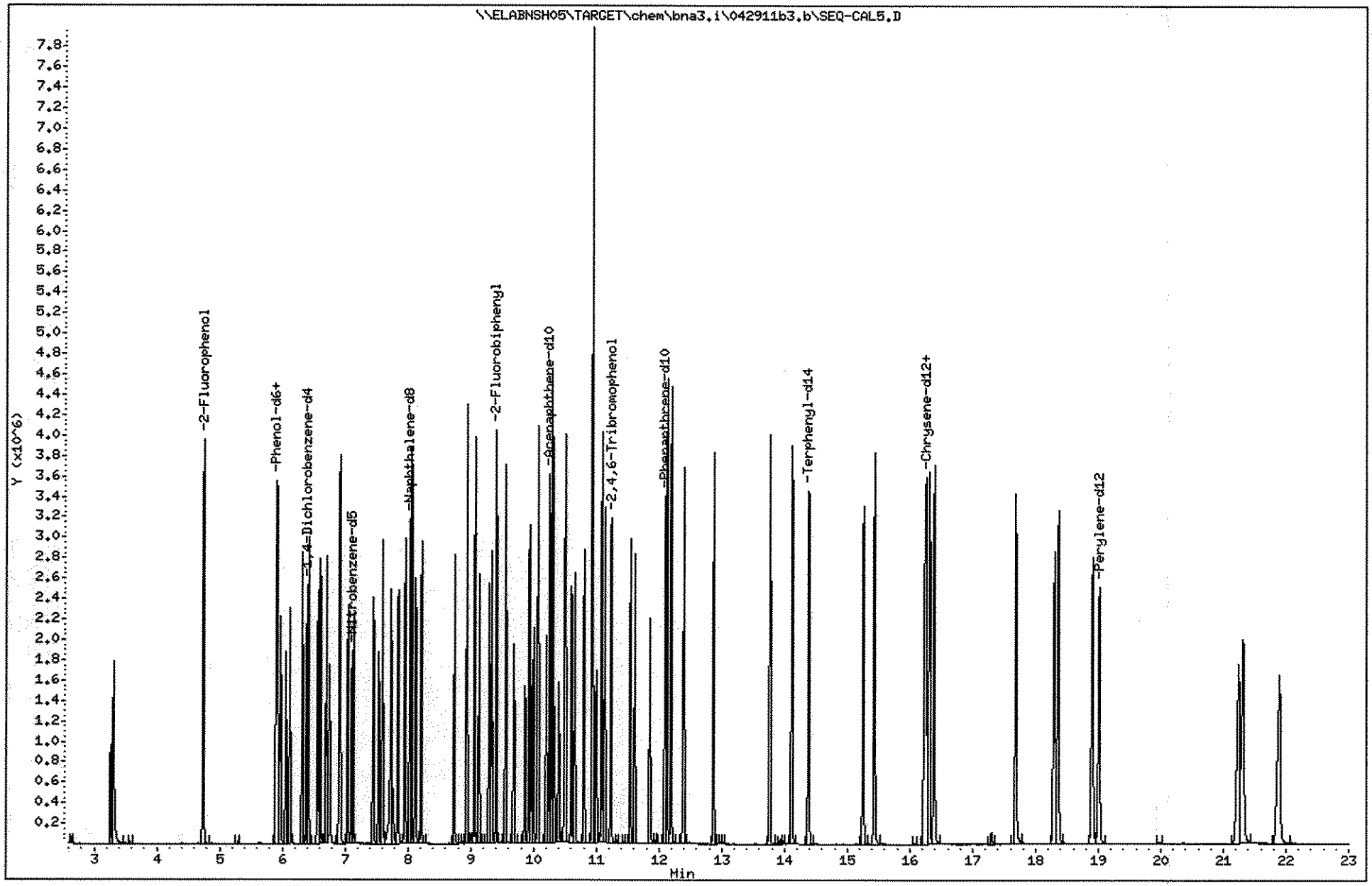

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Data File: \\ELABNSH05\TARGET\chem\bna3.i\042911b3.b\SEQ-CAL6.D
Report Date: 30-Apr-2011 15:01

Laboratory Name

Data file : \\ELABNSH05\TARGET\chem\bna3.i\042911b3.b\SEQ-CAL6.D
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Target Version: 4.04
Processing Host: TARGET09_VM

Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	AMOUNTS CAL-AMT (ng/ul)	AMOUNTS ON-COL (ng/ul)
* 1 1,4-Dichlorobenzene-d4	152	6.386	6.386	(1.000)	555277	40.0000	
$ 2 2-Fluorophenol	112	4.730	4.730	(0.741)	1901047	120.000	119.9(A)
$ 3 Phenol-d6	99	5.911	5.911	(0.926)	2617214	120.000	119.8(A)
4 Pyridine	79	3.299	3.299	(0.517)	1245984	60.0000	60.53
6 N-Nitroso-di-methylamine	42	3.256	3.256	(0.510)	575983	60.0000	60.60
7 Aniline	93	5.964	5.964	(0.934)	1760734	60.0000	60.42
10 Phenol	94	5.927	5.927	(0.928)	1414688	60.0000	60.38
11 bis(2-Chloroethyl)ether	93	6.050	6.050	(0.947)	1079066	60.0000	59.89
12 2-Chlorophenol	128	6.114	6.114	(0.957)	1104074	60.0000	60.48
13 1,3-Dichlorobenzene	146	6.312	6.312	(0.988)	1180491	60.0000	59.56
14 1,4-Dichlorobenzene	146	6.408	6.408	(1.003)	1195215	60.0000	59.58
15 Benzyl alcohol	108	6.568	6.568	(1.028)	725512	60.0000	60.30
16 1,2-Dichlorobenzene	146	6.600	6.600	(1.033)	1119090	60.0000	59.55
17 2-Methylphenol	108	6.696	6.696	(1.049)	1014919	60.0000	60.49
18 2,2'-Oxybis-1-chloropropane	45	6.744	6.744	(1.056)	1617469	60.0000	59.84
19 3-Methylphenol	108	6.910	6.910	(1.082)	1067609	60.0000	60.63
20 4-Methylphenol	108	6.910	6.910	(1.082)	1067609	60.0000	60.63
21 N-Nitroso-di-n-propylamine	70	6.921	6.921	(1.084)	867978	60.0000	60.47
22 Hexachloroethane	117	7.033	7.033	(1.101)	457893	60.0000	60.36
* 33 Naphthalene-d8	136	8.027	8.027	(1.000)	1990246	40.0000	
$ 34 Nitrobenzene-d5	82	7.102	7.102	(0.885)	1225960	60.0000	60.46
35 Nitrobenzene	77	7.129	7.129	(0.888)	1226961	60.0000	60.03
39 Isophorone	82	7.450	7.450	(0.928)	2222053	60.0000	60.00
40 2-Nitrophenol	139	7.535	7.535	(0.939)	591106	60.0000	61.19
42 2,4-Dimethylphenol	107	7.594	7.594	(0.946)	1087589	60.0000	60.11
43 Benzoic acid	105	7.797	7.797	(0.971)	859242	60.0000	64.45

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Data File: \\ELABNSH05\TARGET\chem\bna3.i\042911b3.b\SEQ-CAL6.D
Report Date: 30-Apr-2011 15:01

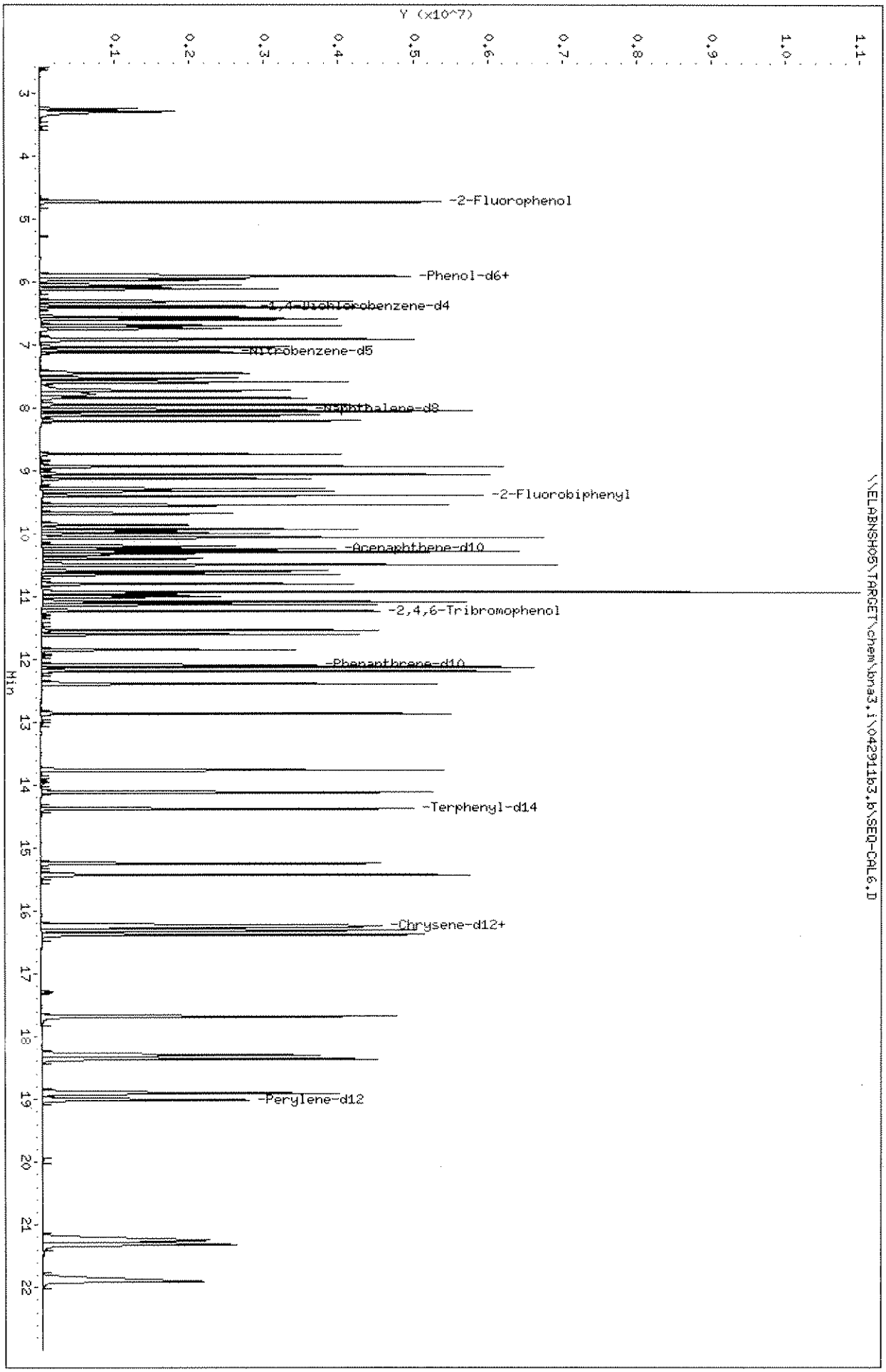
	Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	AMOUNTS CAL-AMT (ng/ul)	AMOUNTS ON-COL (ng/ul)
	44 bis(2-Chloroethoxy)methane	93	7.727	7.727	(0.963)	1262009	60.0000	59.40
	47 2,4-Dichlorophenol	162	7.845	7.845	(0.977)	916298	60.0000	60.44
	50 1,2,4-Trichlorobenzene	180	7.952	7.952	(0.991)	1010811	60.0000	59.37
	51 Naphthalene	128	8.053	8.053	(1.003)	2907621	60.0000	58.68
	52 4-Chloroaniline	127	8.123	8.123	(1.012)	1247370	60.0000	59.33
	53 Hexachlorobutadiene	225	8.208	8.208	(1.023)	553207	60.0000	59.50
	54 4-Chloro-3-methylphenol	107	8.737	8.737	(1.089)	922410	60.0000	59.54
	55 2-Methylnaphthalene	141	8.935	8.935	(1.113)	1760549	60.0000	59.23
	56 1-Methylnaphthalene	141	9.058	9.058	(1.128)	1723323	60.0000	58.98
*	69 Acenaphthene-d10	164	10.249	10.249	(1.000)	1132811	40.0000	
	70 Hexachlorocyclopentadiene	237	9.132	9.132	(0.891)	673388	60.0000	63.41
	71 2,4,6-Trichlorophenol	196	9.287	9.287	(0.906)	671928	60.0000	62.11
	72 2,4,5-Trichlorophenol	196	9.330	9.330	(0.910)	711881	60.0000	60.68
	73 2-Chloronaphthalene	162	9.549	9.549	(0.932)	1834381	60.0000	59.55
$	74 2-Fluorobiphenyl	172	9.399	9.399	(0.917)	2138632	60.0000	59.68
	75 2-Nitroaniline	65	9.683	9.683	(0.945)	646369	60.0000	61.68
	76 Dimethylphthalate	163	9.934	9.934	(0.969)	2099879	60.0000	59.58
	77 Acenaphthylene	152	10.073	10.073	(0.983)	2901293	60.0000	59.38
	78 2,6-Dinitrotoluene	165	9.998	9.998	(0.976)	512533	60.0000	60.49
	79 3-Nitroaniline	138	10.206	10.206	(0.996)	553695	60.0000	60.51
	80 Acenaphthene	153	10.292	10.292	(1.004)	1901180	60.0000	60.46
	81 2,4-Dinitrophenol	184	10.329	10.329	(1.008)	340916	60.0000	64.92
	83 4-Nitrophenol	65	10.404	10.404	(1.015)	502158	60.0000	65.15
	84 Dibenzofuran	168	10.505	10.505	(1.025)	2585730	60.0000	59.48
	85 2,4-Dinitrotoluene	165	10.495	10.495	(1.024)	678889	60.0000	61.00
	86 Diethylphthalate	149	10.804	10.804	(1.054)	2022148	60.0000	59.76
	87 4-Chlorophenyl-phenylether	204	10.933	10.933	(1.067)	1066984	60.0000	60.44
	88 Fluorene	166	10.933	10.933	(1.067)	2297757	60.0000	60.66
	89 4-Nitroaniline	138	10.975	10.975	(1.071)	577249	60.0000	62.28
	96 2,3,4,6-Tetrachlorophenol	232	10.650	10.650	(1.039)	575967	60.0000	60.88
*	102 Phenanthrene-d10	188	12.092	12.092	(1.000)	1876731	40.0000	
	103 1,2-Diphenylhydrazine	77	11.130	11.130	(0.920)	2388158	60.0000	59.83
	104 Carbazole	167	12.391	12.391	(1.025)	2914191	60.0000	59.47
	105 4,6-Dinitro-2-methylphenol	198	11.002	11.002	(0.910)	439724	60.0000	64.45
	106 N-Nitrosodiphenylamine	169	11.088	11.088	(0.917)	1880970	60.0000	59.58
$	107 2,4,6-Tribromophenol	330	11.232	11.232	(0.929)	631013	120.000	122.4(A)
	108 4-Bromophenyl-phenylether	248	11.536	11.536	(0.954)	642282	60.0000	59.92
	109 Hexachlorobenzene	284	11.606	11.606	(0.960)	687744	60.0000	59.99
	110 Pentachlorophenol	266	11.846	11.846	(0.980)	486741	60.0000	63.92
	111 Phenanthrene	178	12.124	12.124	(1.003)	2995896	60.0000	59.35
	112 Anthracene	178	12.188	12.188	(1.008)	3022000	60.0000	58.95
	115 Di-n-butylphthalate	149	12.861	12.861	(1.064)	3305817	60.0000	59.61
	116 Fluoranthene	202	13.764	13.764	(1.138)	3483557	60.0000	60.18
*	132 Chrysene-d12	240	16.259	16.259	(1.000)	2027618	40.0000	
	134 Pyrene	202	14.117	14.117	(0.868)	3529509	60.0000	59.83
$	135 Terphenyl-d14	244	14.378	14.378	(0.884)	2290952	60.0000	60.56
	136 Butylbenzylphthalate	149	15.249	15.249	(0.938)	1601878	60.0000	61.60

Data File: \\ELABNSH05\TARGET\chem\bna3.i\042911b3.b\SEQ-CAL6.D
Report Date: 30-Apr-2011 15:01

Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	AMOUNTS CAL-AMT (ng/ul)	AMOUNTS ON-COL (ng/ul)
138 Benzo(a)anthracene	228	16.232	16.232	(0.998)	3433182	60.0000	60.51
139 Chrysene	228	16.312	16.312	(1.003)	3182062	60.0000	59.91
140 Bis(2-ethylhexyl)phthalate	149	16.376	16.376	(1.007)	2101040	60.0000	61.02
* 154 Perylene-d12	264	19.010	19.010	(1.000)	1977191	40.0000	
155 Di-n-octylphthalate	149	17.680	17.680	(0.930)	3715512	60.0000	62.41
156 Benzo(b)fluoranthene	252	18.299	18.299	(0.963)	3290325	60.0000	60.86
157 Benzo(k)fluoranthene	252	18.358	18.358	(0.966)	3341357	60.0000	61.02
158 Benzo(a)pyrene	252	18.908	18.908	(0.995)	3180626	60.0000	61.52
159 Indeno(1,2,3-cd)pyrene	276	21.243	21.243	(1.117)	3278099	60.0000	63.89
160 Dibenz(a,h)anthracene	278	21.318	21.318	(1.121)	3116500	60.0000	62.77
161 Benzo(g,h,i)perylene	276	21.900	21.900	(1.152)	3181314	60.0000	62.30

QC Flag Legend

A - Target compound detected but, quantitated amount exceeded maximum amount.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Instrument: bna3.i
Operator: MEC
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20
21
22
-2-Fluorophenol
-Phenol-d6+
-1,4-Dichlorobenzene-d4
-Nitrobenzene-d5
-Naphthalene-d8
-2-Fluorobiphenyl
-Acenaphthene-d10
-2,4,6-Tribromophenol
-Phenanthrene-d10
-Terphenyl-d14
-Chrysene-d12+
-Perylene-d12
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Data File: \\ELABNSH05\TARGET\chem\bna3.i\042911b3.b\SEQ-CAL7.D
Report Date: 30-Apr-2011 15:01

Laboratory Name

Data file : \\ELABNSH05\TARGET\chem\bna3.i\042911b3.b\SEQ-CAL7.D
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Smp Info : CAL80.0PPM;;;;;;11D0222
Misc Info : ;;;;;;cal_1.sub;
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Cal Date : 29-APR-2011 22:09 Cal File: SEQ-CAL9.D
Als bottle: 8 Calibration Sample, Level: 7
Dil Factor: 1.00000
Integrator: HP RTE Compound Sublist: cal_1.sub
Target Version: 4.04
Processing Host: TARGET09_VM

Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	AMOUNTS CAL-AMT (ng/ul)	AMOUNTS ON-COL (ng/ul)
* 1 1,4-Dichlorobenzene-d4	152	6.391	6.391	(1.000)	545685	40.0000	
$ 2 2-Fluorophenol	112	4.740	4.740	(0.742)	2403745	160.000	154.3(A)
$ 3 Phenol-d6	99	5.921	5.921	(0.926)	3335269	160.000	155.4(A)
4 Pyridine	79	3.308	3.308	(0.518)	1603420	80.0000	79.26
6 N-Nitroso-di-methylamine	42	3.266	3.266	(0.511)	738942	80.0000	79.12
7 Aniline	93	5.980	5.980	(0.936)	2242316	80.0000	78.29
10 Phenol	94	5.942	5.942	(0.930)	1809353	80.0000	78.59
11 bis(2-Chloroethyl)ether	93	6.065	6.065	(0.949)	1372549	80.0000	77.52
12 2-Chlorophenol	128	6.124	6.124	(0.958)	1402917	80.0000	78.20
13 1,3-Dichlorobenzene	146	6.321	6.321	(0.989)	1499688	80.0000	77.00
14 1,4-Dichlorobenzene	146	6.418	6.418	(1.004)	1519551	80.0000	77.09
15 Benzyl alcohol	108	6.578	6.578	(1.029)	955373	80.0000	80.80
16 1,2-Dichlorobenzene	146	6.610	6.610	(1.034)	1422705	80.0000	77.04
17 2-Methylphenol	108	6.711	6.711	(1.050)	1294555	80.0000	78.51
18 2,2'-Oxybis-1-chloropropane	45	6.754	6.754	(1.057)	2063596	80.0000	77.69
19 3-Methylphenol	108	6.925	6.925	(1.084)	1367290	80.0000	79.02
20 4-Methylphenol	108	6.925	6.925	(1.084)	1367290	80.0000	79.02
21 N-Nitroso-di-n-propylamine	70	6.936	6.936	(1.085)	1110305	80.0000	78.71(M)
22 Hexachloroethane	117	7.043	7.043	(1.102)	579188	80.0000	77.69
* 33 Naphthalene-d8	136	8.036	8.036	(1.000)	1970748	40.0000	
$ 34 Nitrobenzene-d5	82	7.112	7.112	(0.885)	1559600	80.0000	77.67
35 Nitrobenzene	77	7.139	7.139	(0.888)	1560448	80.0000	77.10
39 Isophorone	82	7.465	7.465	(0.929)	2856710	80.0000	77.90
40 2-Nitrophenol	139	7.545	7.545	(0.939)	748430	80.0000	78.24
42 2,4-Dimethylphenol	107	7.609	7.609	(0.947)	1413989	80.0000	78.92
43 Benzoic acid	105	7.828	7.828	(0.974)	1110997	80.0000	84.16(M)

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Data File: \\ELABNSH05\TARGET\chem\bna3.i\042911b3.b\SEQ-CAL7.D
Report Date: 30-Apr-2011 15:01

Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	AMOUNTS CAL-AMT (ng/ul)	AMOUNTS ON-COL (ng/ul)
44 bis(2-Chloroethoxy)methane	93	7.737	7.737	(0.963)	1610223	80.0000	76.54
47 2,4-Dichlorophenol	162	7.855	7.855	(0.977)	1169092	80.0000	77.88
50 1,2,4-Trichlorobenzene	180	7.961	7.961	(0.991)	1285144	80.0000	76.23
51 Naphthalene	128	8.063	8.063	(1.003)	3662785	80.0000	74.65
52 4-Chloroaniline	127	8.132	8.132	(1.012)	1585824	80.0000	76.18
53 Hexachlorobutadiene	225	8.218	8.218	(1.023)	714016	80.0000	77.56
54 4-Chloro-3-methylphenol	107	8.747	8.747	(1.088)	1216417	80.0000	79.30
55 2-Methylnaphthalene	141	8.944	8.944	(1.113)	2274732	80.0000	77.28
56 1-Methylnaphthalene	141	9.067	9.067	(1.128)	2220115	80.0000	76.73
* 69 Acenaphthene-d10	164	10.259	10.259	(1.000)	1144813	40.0000	
70 Hexachlorocyclopentadiene	237	9.137	9.137	(0.891)	879138	80.0000	81.92
71 2,4,6-Trichlorophenol	196	9.297	9.297	(0.906)	867825	80.0000	79.38
72 2,4,5-Trichlorophenol	196	9.340	9.340	(0.910)	931511	80.0000	78.57
73 2-Chloronaphthalene	162	9.559	9.559	(0.932)	2351297	80.0000	75.53
$ 74 2-Fluorobiphenyl	172	9.409	9.409	(0.917)	2757376	80.0000	76.14
75 2-Nitroaniline	65	9.692	9.692	(0.945)	842415	80.0000	79.55
76 Dimethylphthalate	163	9.949	9.949	(0.970)	2714272	80.0000	76.21
77 Acenaphthylene	152	10.082	10.082	(0.983)	3706298	80.0000	75.06
78 2,6-Dinitrotoluene	165	10.013	10.013	(0.976)	658985	80.0000	76.96
79 3-Nitroaniline	138	10.221	10.221	(0.996)	723537	80.0000	78.25
80 Acenaphthene	153	10.301	10.301	(1.004)	2450881	80.0000	77.12
81 2,4-Dinitrophenol	184	10.344	10.344	(1.008)	459366	80.0000	86.55
83 4-Nitrophenol	65	10.419	10.419	(1.016)	658415	80.0000	84.52
84 Dibenzofuran	168	10.515	10.515	(1.025)	3375084	80.0000	76.82
85 2,4-Dinitrotoluene	165	10.510	10.510	(1.024)	904661	80.0000	80.43
86 Diethylphthalate	149	10.814	10.814	(1.054)	2598389	80.0000	75.99
87 4-Chlorophenyl-phenylether	204	10.942	10.942	(1.067)	1422946	80.0000	79.76
88 Fluorene	166	10.942	10.942	(1.067)	2989485	80.0000	78.09
89 4-Nitroaniline	138	10.996	10.996	(1.072)	696468	80.0000	74.35
96 2,3,4,6-Tetrachlorophenol	232	10.665	10.665	(1.040)	754099	80.0000	78.87
* 102 Phenanthrene-d10	188	12.102	12.102	(1.000)	1908161	40.0000	
103 1,2-Diphenylhydrazine	77	11.145	11.145	(0.921)	3059328	80.0000	75.38
104 Carbazole	167	12.406	12.406	(1.025)	3809227	80.0000	76.46
105 4,6-Dinitro-2-methylphenol	198	11.022	11.022	(0.911)	581048	80.0000	83.76
106 N-Nitrosodiphenylamine	169	11.103	11.103	(0.917)	2450787	80.0000	76.35
$ 107 2,4,6-Tribromophenol	330	11.242	11.242	(0.929)	852176	160.000	162.6(A)
108 4-Bromophenyl-phenylether	248	11.551	11.551	(0.955)	844534	80.0000	77.48
109 Hexachlorobenzene	284	11.621	11.621	(0.960)	903275	80.0000	77.49
110 Pentachlorophenol	266	11.856	11.856	(0.980)	644778	80.0000	83.27
111 Phenanthrene	178	12.134	12.134	(1.003)	3895970	80.0000	75.91
112 Anthracene	178	12.198	12.198	(1.008)	3952621	80.0000	75.83
115 Di-n-butylphthalate	149	12.876	12.876	(1.064)	4258479	80.0000	75.52
116 Fluoranthene	202	13.779	13.779	(1.139)	4550891	80.0000	77.32
* 132 Chrysene-d12	240	16.274	16.274	(1.000)	2081812	40.0000	
134 Pyrene	202	14.132	14.132	(0.868)	4601514	80.0000	75.97
$ 135 Terphenyl-d14	244	14.393	14.393	(0.884)	3009903	80.0000	77.50
136 Butylbenzylphthalate	149	15.264	15.264	(0.938)	2107310	80.0000	78.93

Data File: \\ELABNSH05\TARGET\chem\bna3.i\042911b3.b\SEQ-CAL7.D
Report Date: 30-Apr-2011 15:01

Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	AMOUNTS CAL-AMT (ng/ul)	AMOUNTS ON-COL (ng/ul)
138 Benzo(a)anthracene	228	16.247	16.247	(0.998)	4519594	80.0000	77.58
139 Chrysene	228	16.327	16.327	(1.003)	4156881	80.0000	76.22
140 Bis(2-ethylhexyl)phthalate	149	16.391	16.391	(1.007)	2755360	80.0000	77.93
* 154 Perylene-d12	264	19.025	19.025	(1.000)	2013593	40.0000	
155 Di-n-octylphthalate	149	17.695	17.695	(0.930)	4866675	80.0000	80.27
156 Benzo(b)fluoranthene	252	18.320	18.320	(0.963)	4406918	80.0000	80.04
157 Benzo(k)fluoranthene	252	18.384	18.384	(0.966)	4374996	80.0000	78.46
158 Benzo(a)pyrene	252	18.929	18.929	(0.995)	4200577	80.0000	79.78
159 Indeno(1,2,3-cd)pyrene	276	21.274	21.274	(1.118)	4330284	80.0000	82.87
160 Dibenz(a,h)anthracene	278	21.349	21.349	(1.122)	4123283	80.0000	81.54
161 Benzo(g,h,i)perylene	276	21.936	21.936	(1.153)	4146555	80.0000	79.73

QC Flag Legend

A - Target compound detected but, quantitated amount exceeded maximum amount.
M - Compound response manually integrated.

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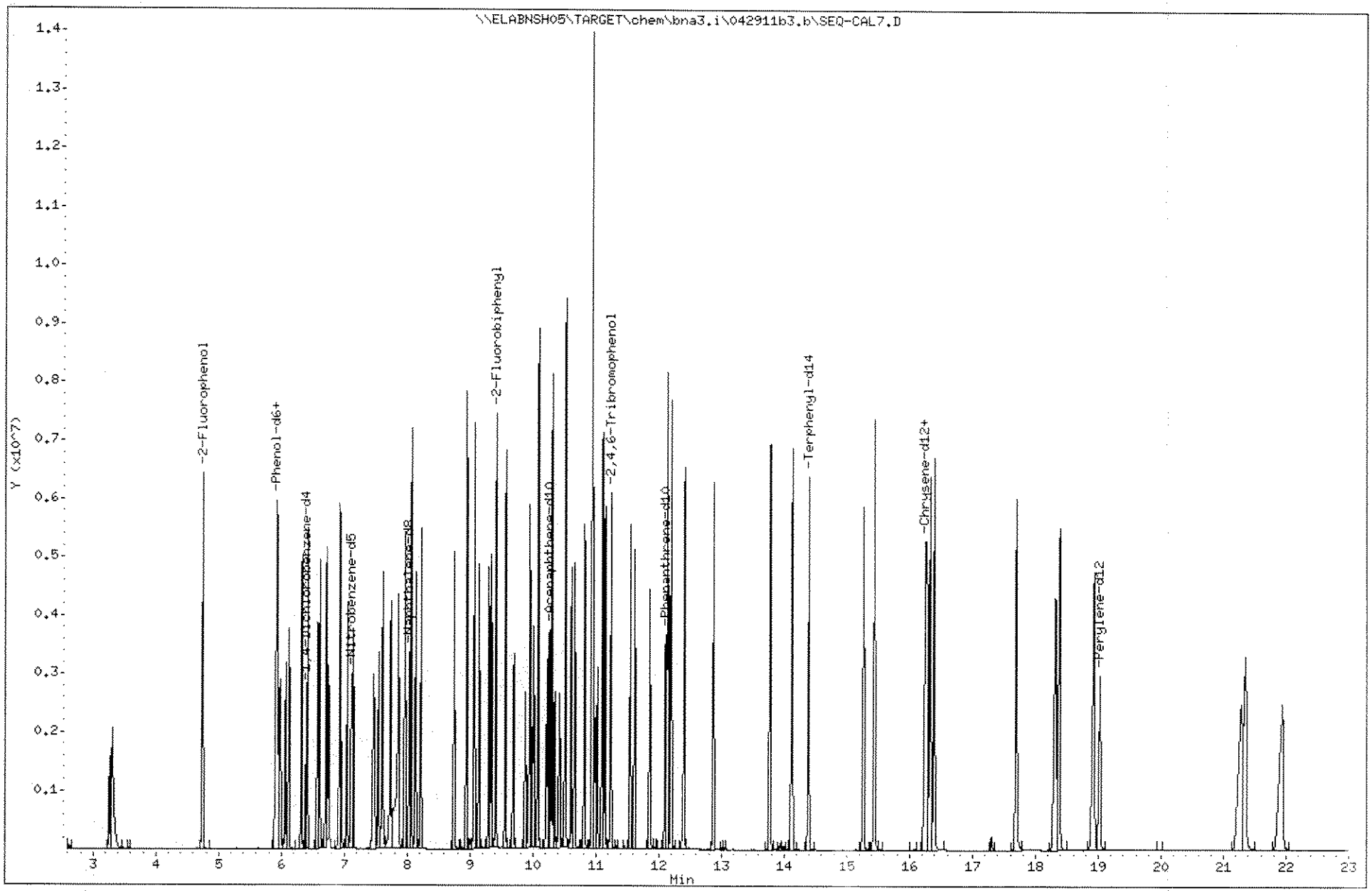
Date : 29-APR-2011 21:04
Client ID: SEQ-CAL7
Sample Info: CAL80.0PPM;;;;;;11D0222

Instrument: bna3.i

Operator: MEC
Column diameter: 0.25

Column phase: fused silica



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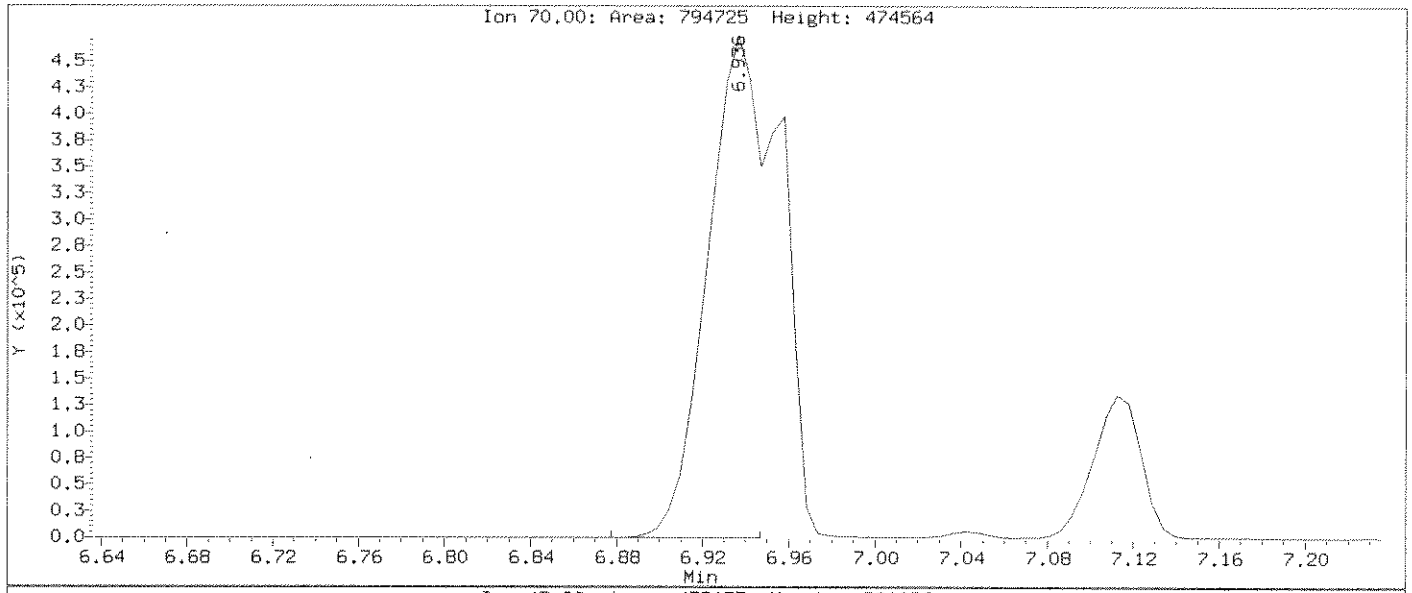
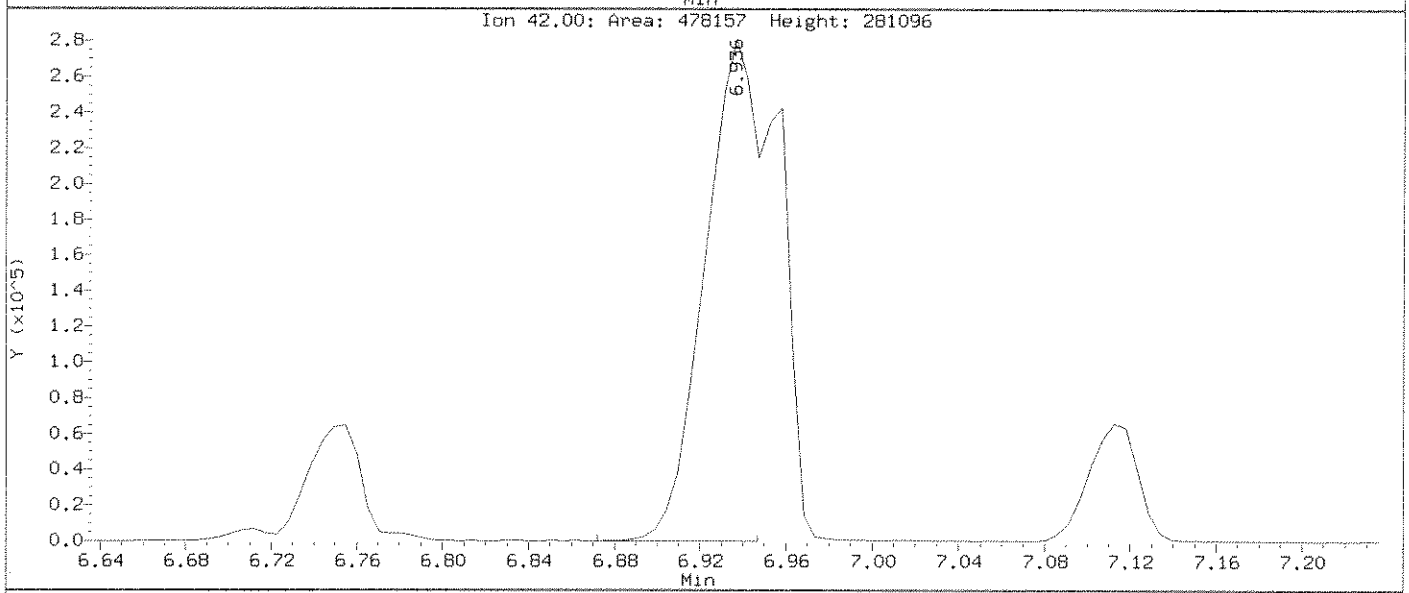
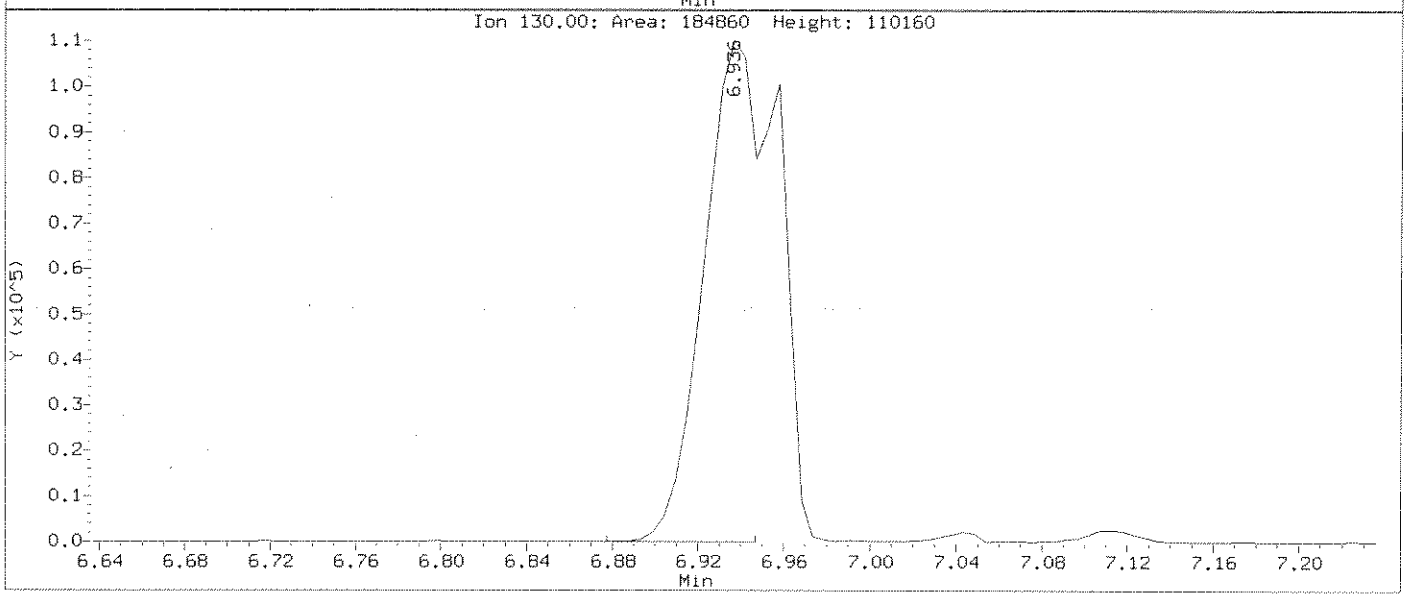
Injection Date: 29-APR-2011 21:04
Instrument: bna3.i
Client Sample ID: SEQ-CAL7

Compound: N-Nitroso-di-n-propylamine
CAS Number: 621-64-7







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Injection Date: 29-APR-2011 21:04
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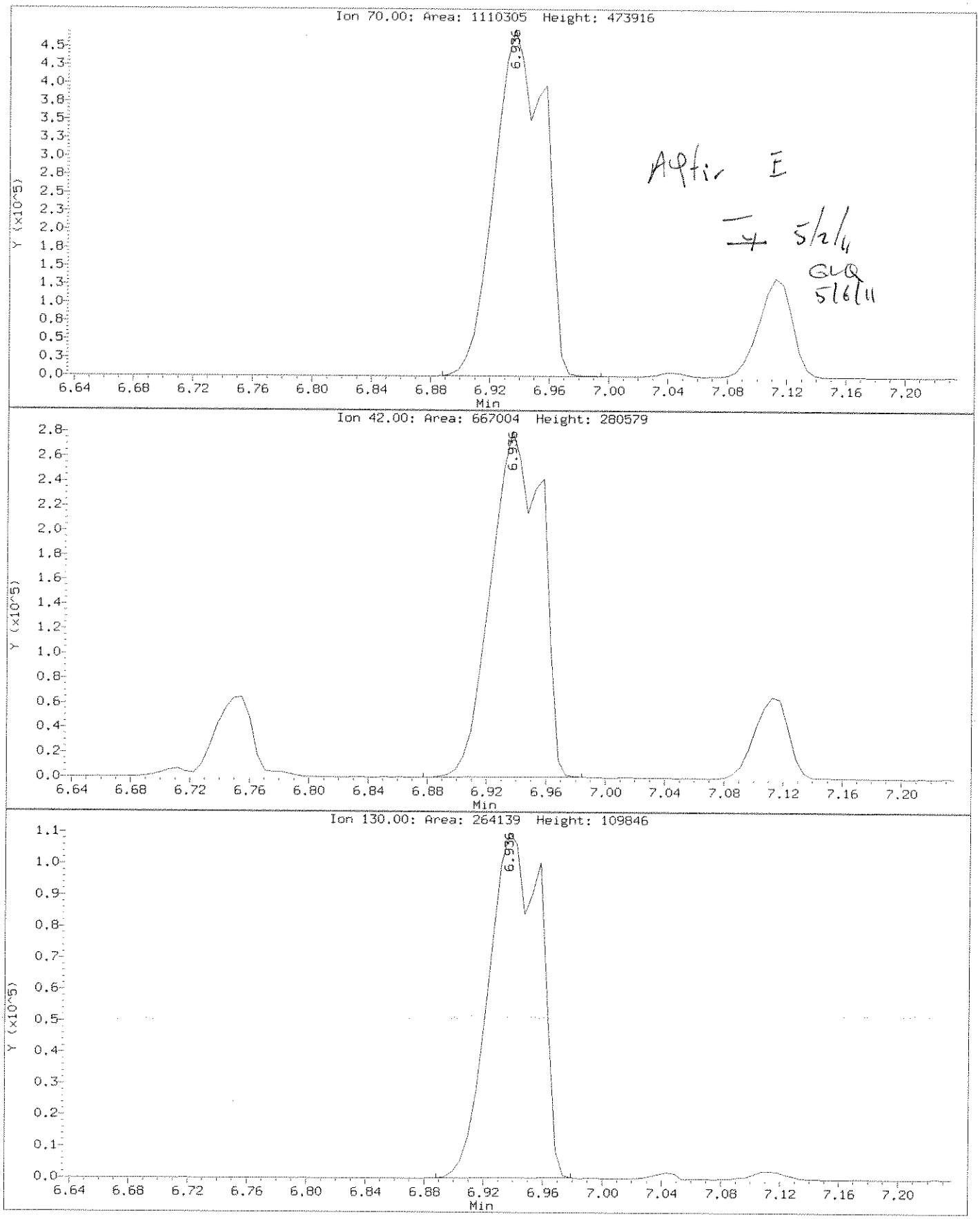
Client Sample ID: SEQ-CAL7

Compound: N-Nitroso-di-n-propylamine
CAS Number: 621-64-7



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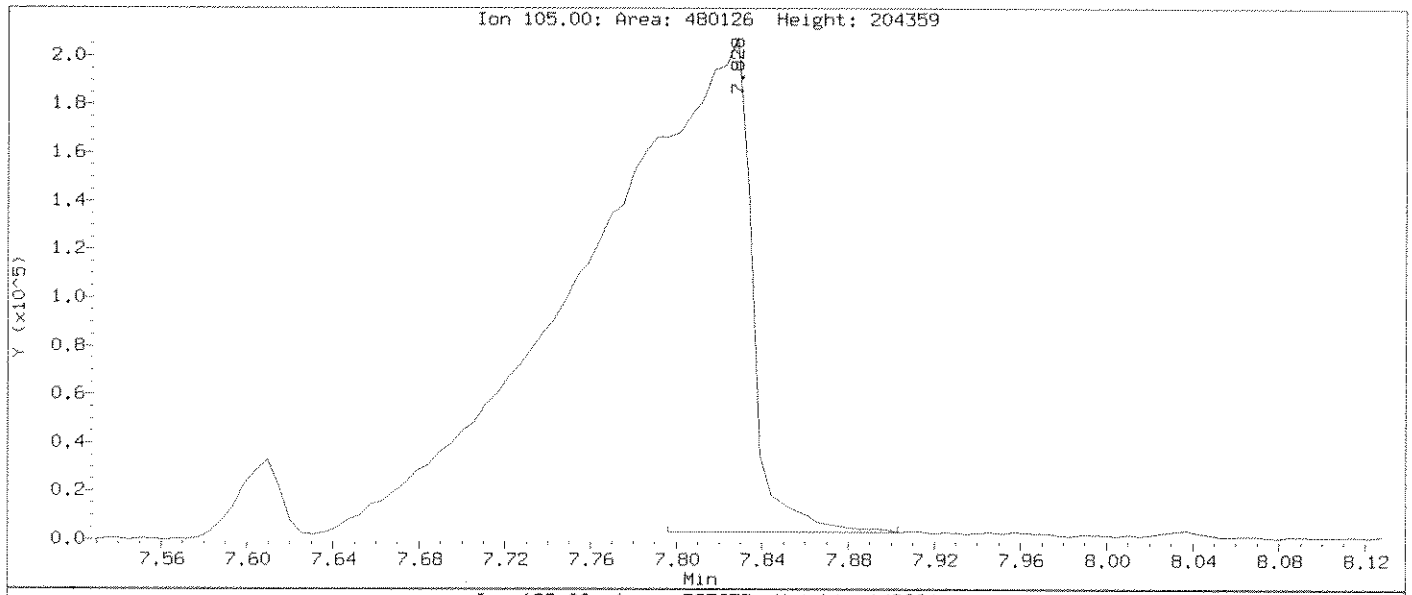
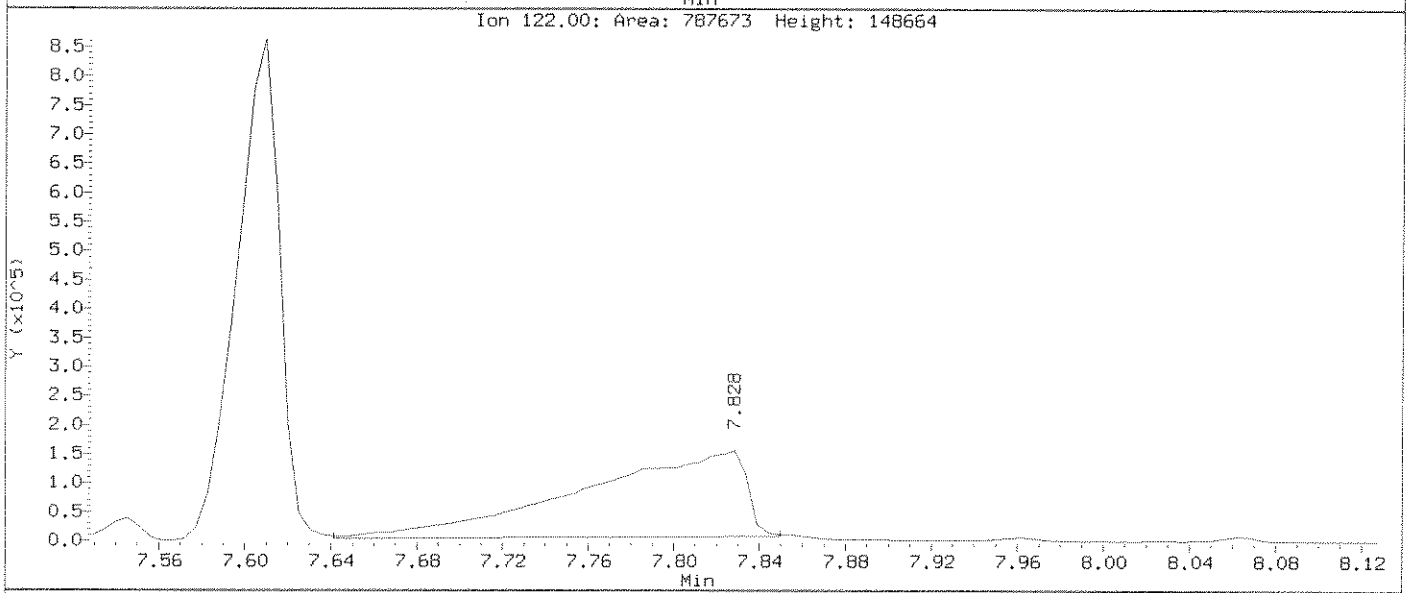
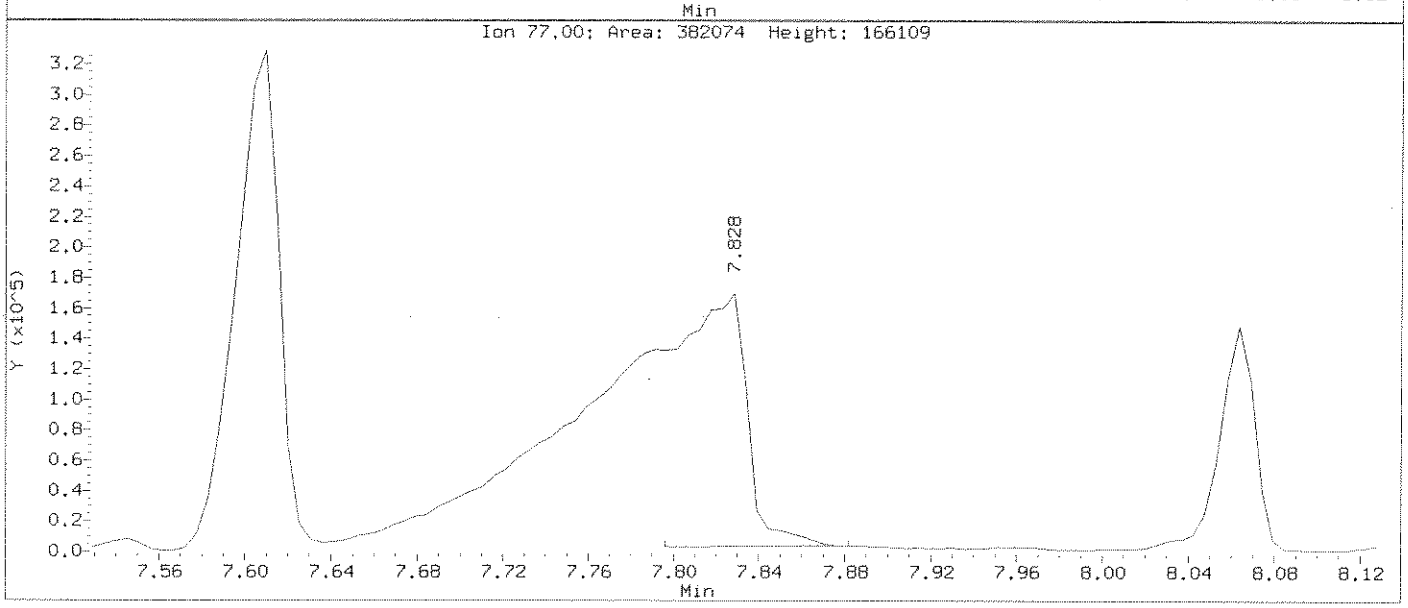
Injection Date: 29-APR-2011 21:04
Instrument: bna3.i
Client Sample ID: SEQ-CAL7

Compound: Benzoic acid
CAS Number: 65-85-0







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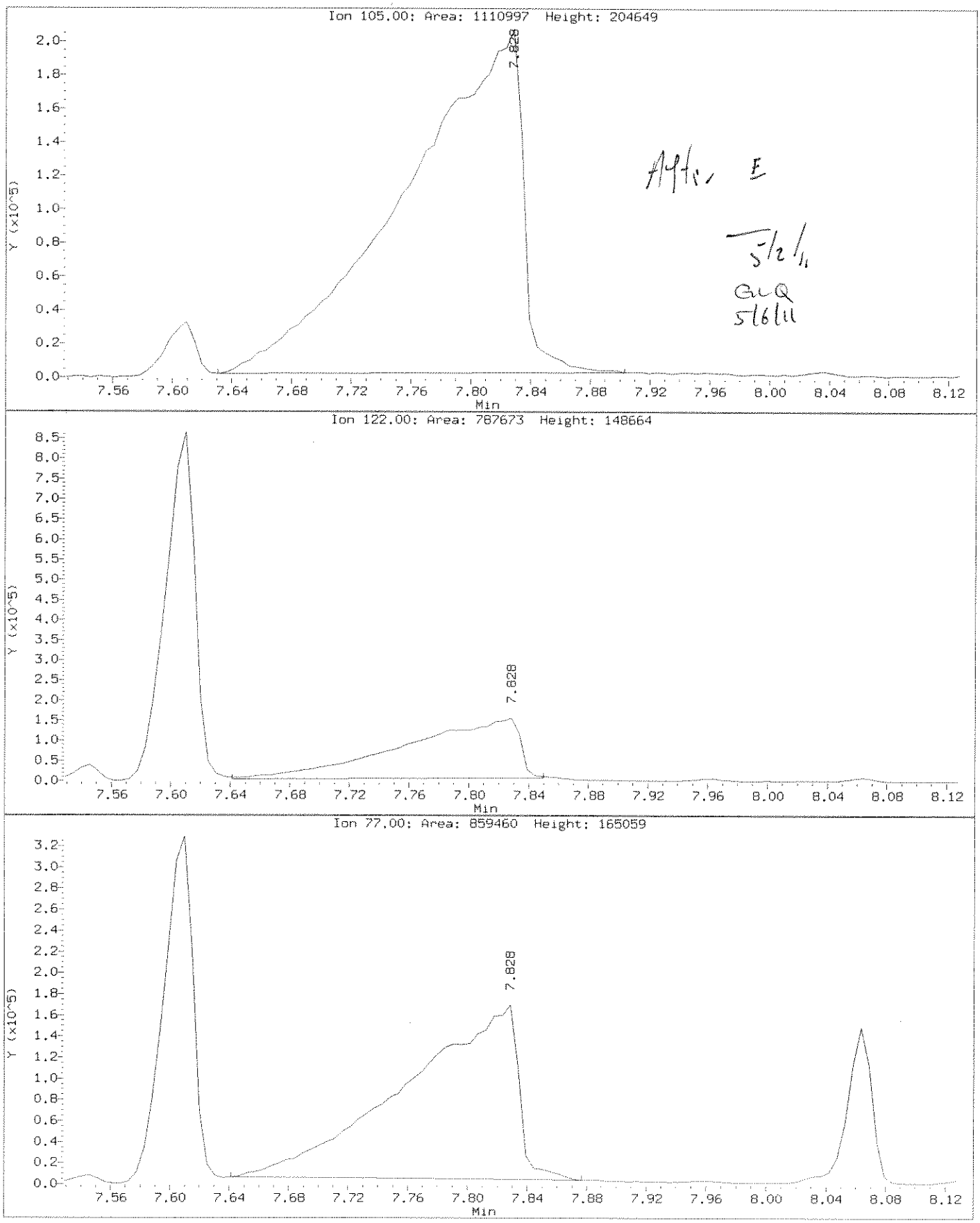
Injection Date: 29-APR-2011 21:04
Instrument: bna3.i
Client Sample ID: SEQ-CAL7

Compound: Benzoic acid
CAS Number: 65-85-0



After E
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GLQ
5/6/11

Data File: \\ELABNSH05\TARGET\chem\bna3.i\042911b3.b\SEQ-CAL8.D
Report Date: 30-Apr-2011 15:01

Laboratory Name

Data file : \\ELABNSH05\TARGET\chem\bna3.i\042911b3.b\SEQ-CAL8.D
Lab Smp Id: SEQ-CAL8 Client Smp ID: SEQ-CAL8
Inj Date : 29-APR-2011 21:37 MS Autotune Date: 07-SEP-2010 05:33
Operator : MEC Inst ID: bna3.i
Smp Info : CAL100.0PPM;;;;;;11D0223
Misc Info : ;;;;;;cal_1.sub;
Comment :
Method : \\ELABNSH05\TARGET\chem\bna3.i\042911b3.b\IXBN3.m
Meth Date : 30-Apr-2011 15:01 mcobb Quant Type: ISTD
Cal Date : 29-APR-2011 22:09 Cal File: SEQ-CAL9.D
Als bottle: 9 Calibration Sample, Level: 8
Dil Factor: 1.00000
Integrator: HP RTE Compound Sublist: cal_1.sub
Target Version: 4.04
Processing Host: TARGET09_VM

Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	AMOUNTS CAL-AMT (ng/ul)	AMOUNTS ON-COL (ng/ul)
* 1 1,4-Dichlorobenzene-d4	152	6.390	6.390	(1.000)	564644	40.0000	
$ 2 2-Fluorophenol	112	4.745	4.745	(0.743)	3137222	200.000	194.6(A)
$ 3 Phenol-d6	99	5.926	5.926	(0.927)	4320698	200.000	194.6(A)
4 Pyridine	79	3.308	3.308	(0.518)	2116667	100.000	101.1(A)
6 N-Nitroso-di-methylamine	42	3.271	3.271	(0.512)	961973	100.000	99.54
7 Aniline	93	5.974	5.974	(0.935)	2885092	100.000	97.35
10 Phenol	94	5.942	5.942	(0.930)	2368900	100.000	99.43
11 bis(2-Chloroethyl)ether	93	6.065	6.065	(0.949)	1756223	100.000	95.86
12 2-Chlorophenol	128	6.118	6.118	(0.957)	1810622	100.000	97.54
13 1,3-Dichlorobenzene	146	6.316	6.316	(0.988)	1949036	100.000	96.70
14 1,4-Dichlorobenzene	146	6.412	6.412	(1.003)	1979549	100.000	97.05
15 Benzyl alcohol	108	6.583	6.583	(1.030)	1234517	100.000	100.9(A)
16 1,2-Dichlorobenzene	146	6.604	6.604	(1.033)	1844200	100.000	96.50
17 2-Methylphenol	108	6.711	6.711	(1.050)	1659066	100.000	97.24
18 2,2'-Oxybis-1-chloropropane	45	6.748	6.748	(1.056)	2591542	100.000	94.29
19 3-Methylphenol	108	6.930	6.930	(1.084)	1759866	100.000	98.29
20 4-Methylphenol	108	6.930	6.930	(1.084)	1759866	100.000	98.29
21 N-Nitroso-di-n-propylamine	70	6.962	6.962	(1.089)	1424741	100.000	97.61(M)
22 Hexachloroethane	117	7.037	7.037	(1.101)	760468	100.000	98.58
* 33 Naphthalene-d8	136	8.030	8.030	(1.000)	1974331	40.0000	
$ 34 Nitrobenzene-d5	82	7.112	7.112	(0.886)	2009105	100.000	99.88
35 Nitrobenzene	77	7.138	7.138	(0.889)	1987297	100.000	98.01
39 Isophorone	82	7.464	7.464	(0.929)	3607251	100.000	98.19
40 2-Nitrophenol	139	7.539	7.539	(0.939)	949843	100.000	99.12
42 2,4-Dimethylphenol	107	7.608	7.608	(0.947)	1793457	100.000	99.92
43 Benzoic acid	105	7.849	7.849	(0.977)	1477320	100.000	111.7(A)

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Data File: \\ELABNSH05\TARGET\chem\bna3.i\042911b3.b\SEQ-CAL8.D
Report Date: 30-Apr-2011 15:01

	Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	AMOUNTS CAL-AMT (ng/ul)	AMOUNTS ON-COL (ng/ul)
	44 bis(2-Chloroethoxy)methane	93	7.737	7.737	(0.963)	2020758	100.000	95.88
	47 2,4-Dichlorophenol	162	7.854	7.854	(0.978)	1488625	100.000	98.99
	50 1,2,4-Trichlorobenzene	180	7.956	7.956	(0.991)	1654786	100.000	97.98
	51 Naphthalene	128	8.063	8.063	(1.004)	4564183	100.000	92.85
	52 4-Chloroaniline	127	8.132	8.132	(1.013)	1982676	100.000	95.07
	53 Hexachlorobutadiene	225	8.212	8.212	(1.023)	929872	100.000	100.8(A)
	54 4-Chloro-3-methylphenol	107	8.741	8.741	(1.088)	1519076	100.000	98.85
	55 2-Methylnaphthalene	141	8.939	8.939	(1.113)	2869762	100.000	97.32
	56 1-Methylnaphthalene	141	9.067	9.067	(1.129)	2809100	100.000	96.91
*	69 Acenaphthene-d10	164	10.253	10.253	(1.000)	1113173	40.0000	
	70 Hexachlorocyclopentadiene	237	9.131	9.131	(0.891)	1142601	100.000	109.5(A)
	71 2,4,6-Trichlorophenol	196	9.291	9.291	(0.906)	1096601	100.000	103.2(A)
	72 2,4,5-Trichlorophenol	196	9.334	9.334	(0.910)	1180818	100.000	102.4(A)
	73 2-Chloronaphthalene	162	9.553	9.553	(0.932)	2963941	100.000	97.91
$	74 2-Fluorobiphenyl	172	9.409	9.409	(0.918)	3451754	100.000	98.02
	75 2-Nitroaniline	65	9.687	9.687	(0.945)	1059801	100.000	102.9(A)
	76 Dimethylphthalate	163	9.948	9.948	(0.970)	3401656	100.000	98.22
	77 Acenaphthylene	152	10.077	10.077	(0.983)	4583788	100.000	95.47
	78 2,6-Dinitrotoluene	165	10.012	10.012	(0.977)	826091	100.000	99.22
	79 3-Nitroaniline	138	10.221	10.221	(0.997)	893128	100.000	99.33
	80 Acenaphthene	153	10.301	10.301	(1.005)	3089484	100.000	99.98
	81 2,4-Dinitrophenol	184	10.344	10.344	(1.009)	579676	100.000	112.3(A)
	83 4-Nitrophenol	65	10.424	10.424	(1.017)	813295	100.000	107.4(A)
	84 Dibenzofuran	168	10.515	10.515	(1.026)	4192766	100.000	98.14
	85 2,4-Dinitrotoluene	165	10.515	10.515	(1.026)	1152579	100.000	105.4(A)
	86 Diethylphthalate	149	10.814	10.814	(1.055)	3221674	100.000	96.90
	87 4-Chlorophenyl-phenylether	204	10.937	10.937	(1.067)	1776641	100.000	102.4(A)
	88 Fluorene	166	10.942	10.942	(1.067)	3691774	100.000	99.18
	89 4-Nitroaniline	138	11.001	11.001	(1.073)	863110	100.000	94.76
	96 2,3,4,6-Tetrachlorophenol	232	10.659	10.659	(1.040)	960208	100.000	103.3(A)
*	102 Phenanthrene-d10	188	12.096	12.096	(1.000)	1849431	40.0000	
	103 1,2-Diphenylhydrazine	77	11.140	11.140	(0.921)	3776926	100.000	96.02
	104 Carbazole	167	12.400	12.400	(1.025)	4640764	100.000	96.11
	105 4,6-Dinitro-2-methylphenol	198	11.022	11.022	(0.911)	728435	100.000	108.3(A)
	106 N-Nitrosodiphenylamine	169	11.097	11.097	(0.917)	3052311	100.000	98.11
$	107 2,4,6-Tribromophenol	330	11.241	11.241	(0.929)	1102965	200.000	217.1(A)
	108 4-Bromophenyl-phenylether	248	11.546	11.546	(0.955)	1069585	100.000	101.2(A)
	109 Hexachlorobenzene	284	11.615	11.615	(0.960)	1142334	100.000	101.1(A)
	110 Pentachlorophenol	266	11.855	11.855	(0.980)	815849	100.000	108.7(A)
	111 Phenanthrene	178	12.133	12.133	(1.003)	4761849	100.000	95.73
	112 Anthracene	178	12.197	12.197	(1.008)	4827246	100.000	95.55
	115 Di-n-butylphthalate	149	12.870	12.870	(1.064)	5140519	100.000	94.06
	116 Fluoranthene	202	13.773	13.773	(1.139)	5601520	100.000	98.19
*	132 Chrysene-d12	240	16.268	16.268	(1.000)	2020225	40.0000	
	134 Pyrene	202	14.126	14.126	(0.868)	5656383	100.000	96.24
$	135 Terphenyl-d14	244	14.388	14.388	(0.884)	3753648	100.000	99.60
	136 Butylbenzylphthalate	149	15.258	15.258	(0.938)	2605847	100.000	100.6(A)

Data File: \\ELABNSH05\TARGET\chem\bna3.i\042911b3.b\SEQ-CAL8.D
Report Date: 30-Apr-2011 15:01

Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	AMOUNTS CAL-AMT (ng/ul)	AMOUNTS ON-COL (ng/ul)
138 Benzo(a)anthracene	228	16.247	16.247	(0.999)	5569888	100.000	98.53
139 Chrysene	228	16.327	16.327	(1.004)	5113731	100.000	96.62
140 Bis(2-ethylhexyl)phthalate	149	16.386	16.386	(1.007)	3403927	100.000	99.21
* 154 Perylene-d12	264	19.014	19.014	(1.000)	1927021	40.0000	
155 Di-n-octylphthalate	149	17.689	17.689	(0.930)	5991866	100.000	103.3(A)
156 Benzo(b)fluoranthene	252	18.314	18.314	(0.963)	5580270	100.000	105.9(A)
157 Benzo(k)fluoranthene	252	18.384	18.384	(0.967)	5289409	100.000	99.12
158 Benzo(a)pyrene	252	18.928	18.928	(0.996)	5215495	100.000	103.5(A)
159 Indeno(1,2,3-cd)pyrene	276	21.279	21.279	(1.119)	5641979	100.000	112.8(A)
160 Dibenz(a,h)anthracene	278	21.348	21.348	(1.123)	5131008	100.000	106.0(A)
161 Benzo(g,h,i)perylene	276	21.941	21.941	(1.154)	5141339	100.000	103.3(A)

QC Flag Legend

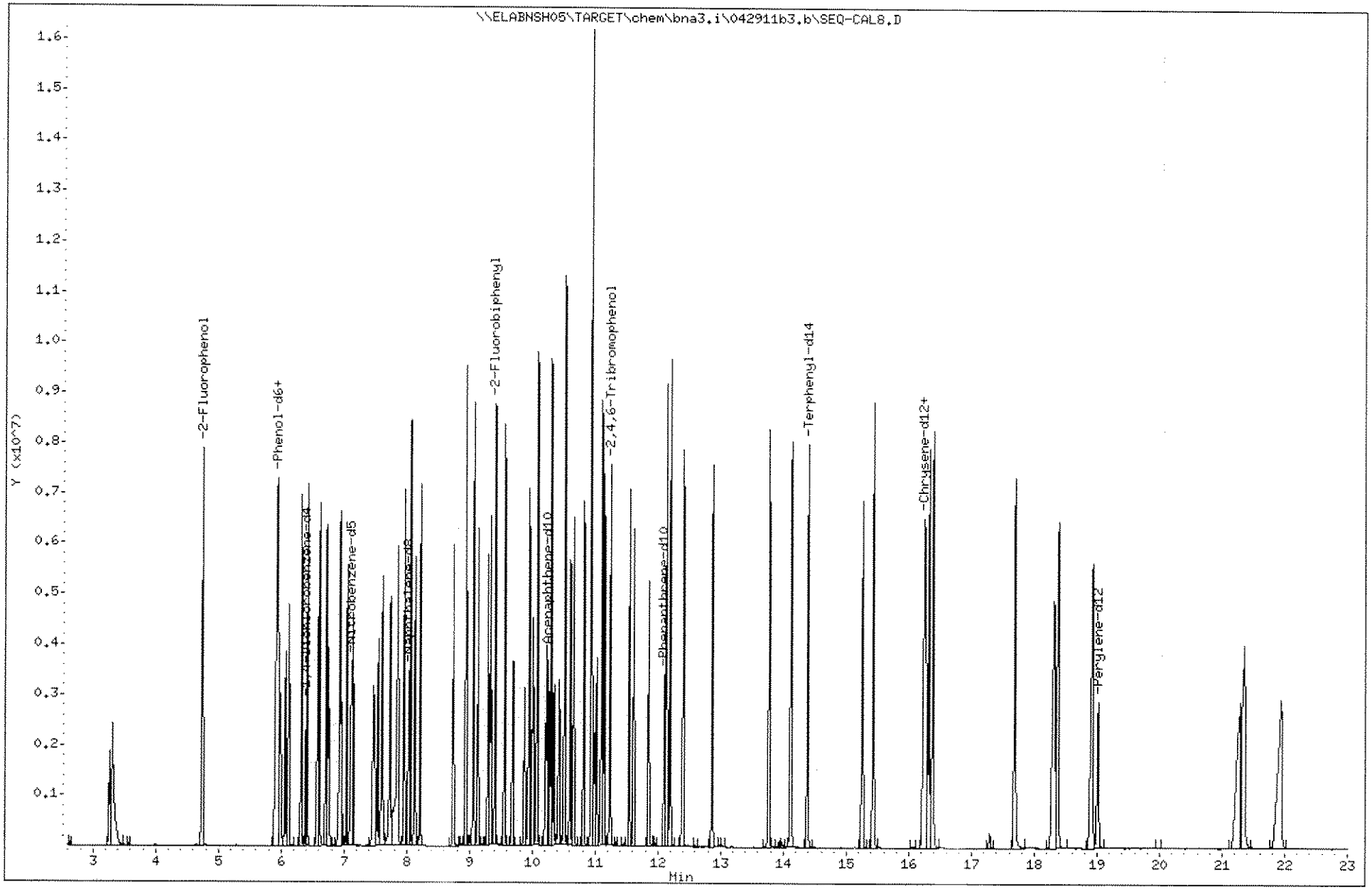
A - Target compound detected but, quantitated amount exceeded maximum amount.
M - Compound response manually integrated.

Data File: \\ELABNSH05\TARGET\chem\bna3.i\042911b3.b\SEQ-CAL8.D
Date : 29-APR-2011 21:37
Client ID: SEQ-CAL8
Sample Info: CAL100.0PPM;;;;;;11D0223

Column phase: fused silica

Instrument: bna3.i

Operator: MEC
Column diameter: 0.25



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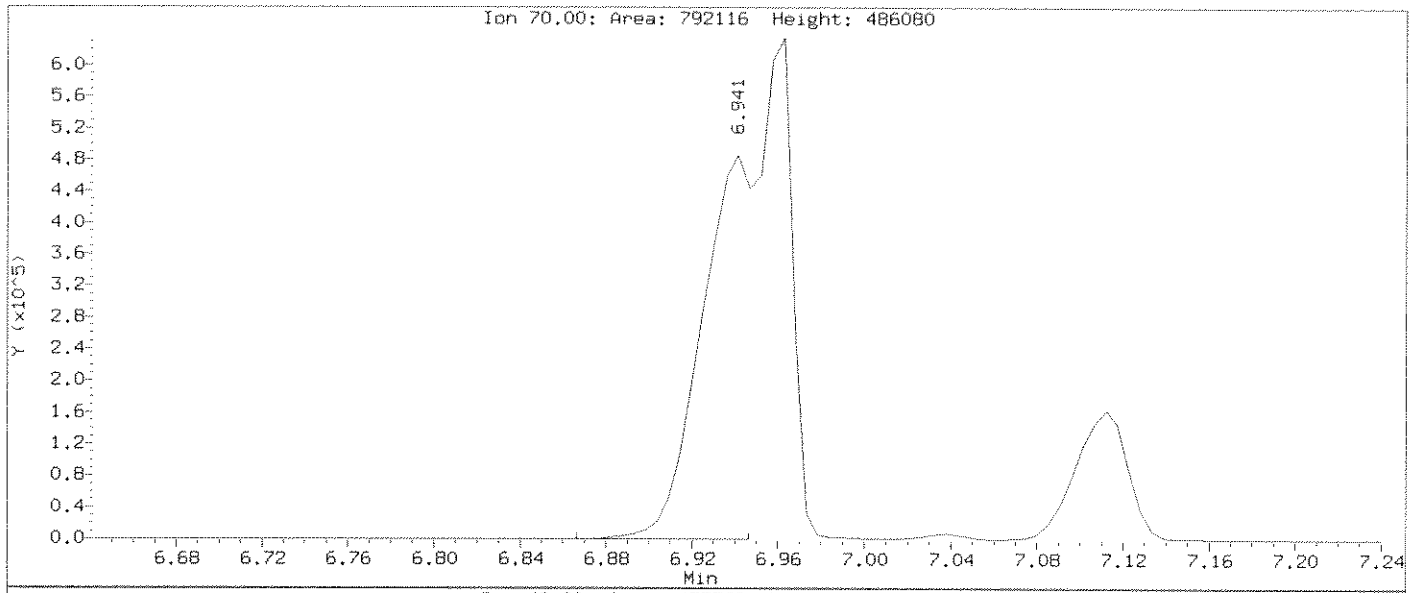
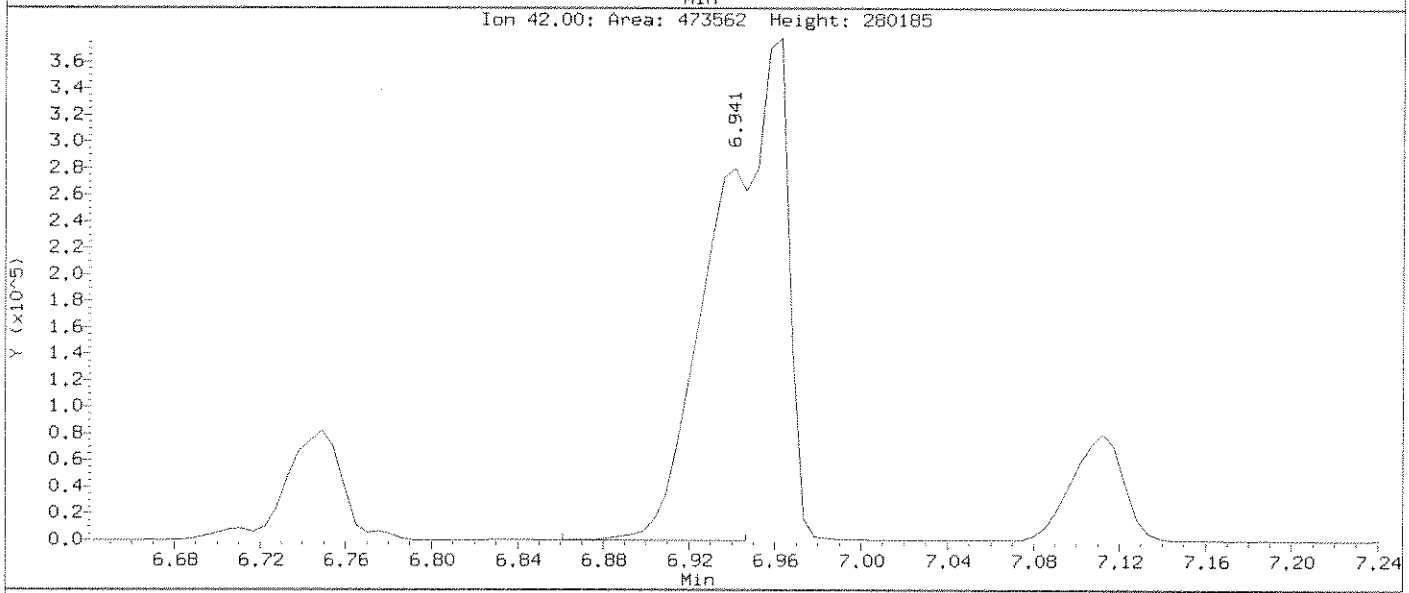
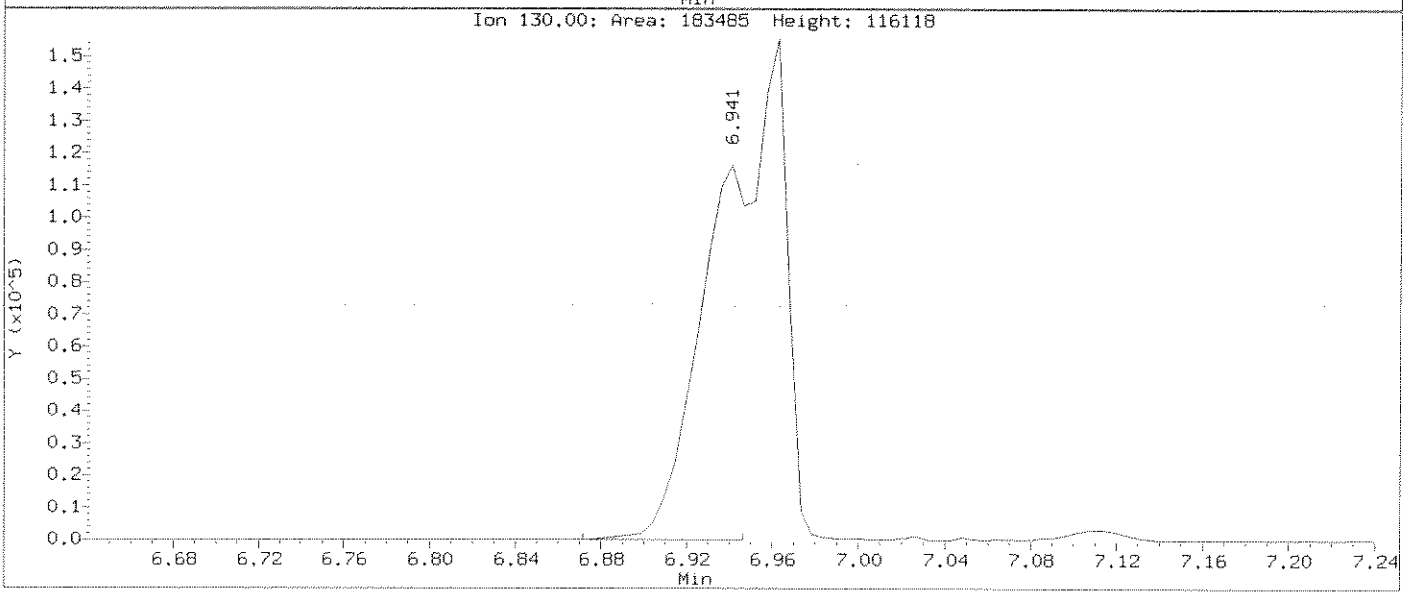
1110003

Data File: \\ELABNSH05\TARGET\chem\bna3.i\042911b3.b\SEQ-CAL8.D
Injection Date: 29-APR-2011 21:37
Instrument: bna3.i
Client Sample ID: SEQ-CAL8

Compound: N-Nitroso-di-n-propylamine
CAS Number: 621-64-7







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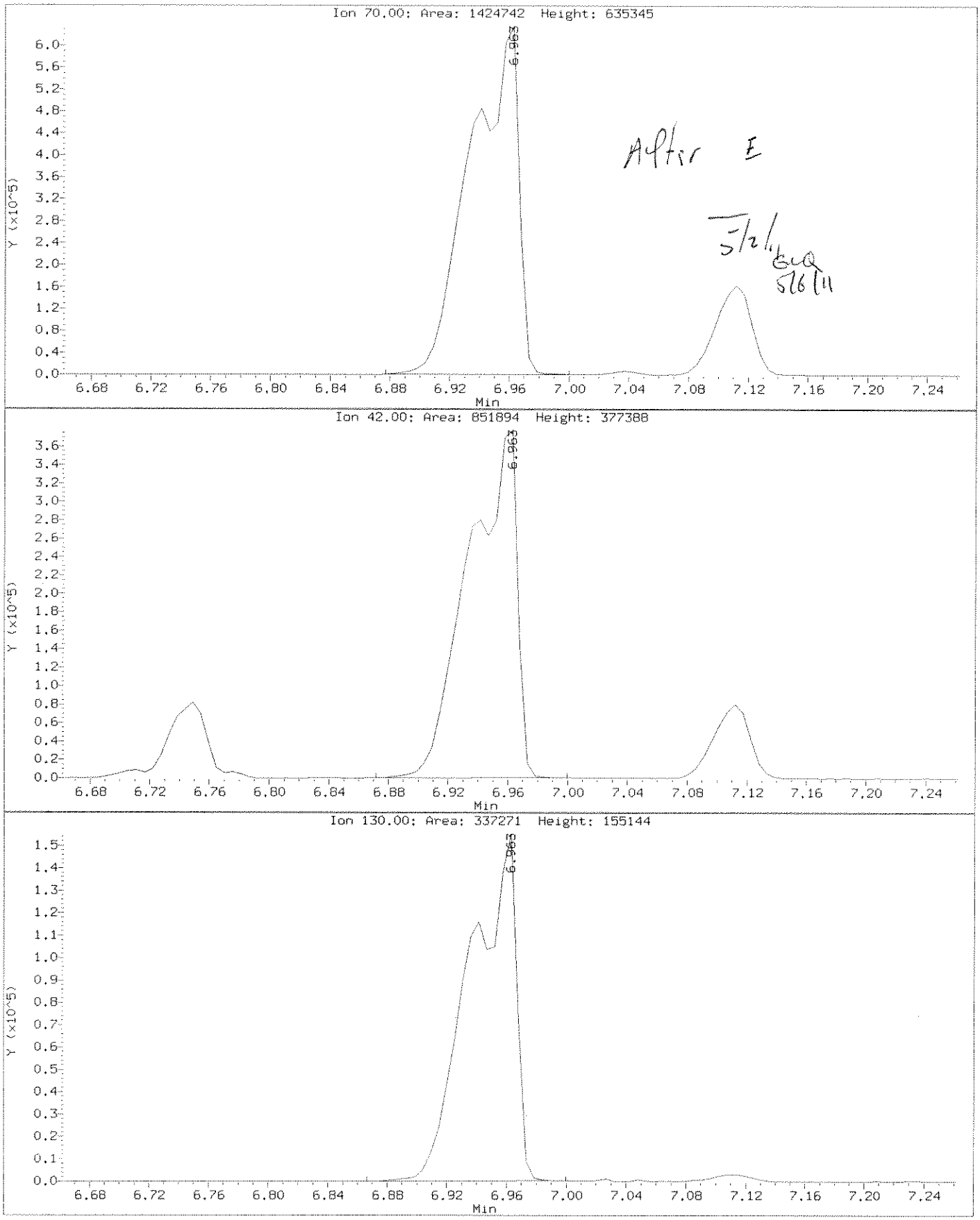
Injection Date: 29-APR-2011 21:37
Instrument: bna3.i
Client Sample ID: SEQ-CAL8

Compound: N-Nitroso-di-n-propylamine
CAS Number: 621-64-7



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5/2/11 EQ 5/6/11

Data File: \\ELABNSH05\TARGET\chem\bna3.i\042911b3.b\SEQ-CAL9.D
Report Date: 30-Apr-2011 15:11

Laboratory Name

Data file : \\ELABNSH05\TARGET\chem\bna3.i\042911b3.b\SEQ-CAL9.D
Lab Smp Id: SEQ-CAL9 Client Smp ID: SEQ-CAL9
Inj Date : 29-APR-2011 22:09 MS Autotune Date: 07-SEP-2010 05:33
Operator : MEC Inst ID: bna3.i
Smp Info : CAL5.0PPM;;;;;;11A0534
Misc Info : ;;;;;;cal_2.sub;
Comment :
Method : \\ELABNSH05\TARGET\chem\bna3.i\042911b3.b\IXBN3.m
Meth Date : 30-Apr-2011 15:11 mcobb Quant Type: ISTD
Cal Date : 30-APR-2011 01:58 Cal File: SEQ-CALG.D
Als bottle: 10 Calibration Sample, Level: 1
Dil Factor: 1.00000
Integrator: HP RTE Compound Sublist: cal_2.sub
Target Version: 4.04
Processing Host: TARGET09_VM

Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	AMOUNTS CAL-AMT (ng/ul)	AMOUNTS ON-COL (ng/ul)
* 1 1,4-Dichlorobenzene-d4	152	6.392	6.392	(1.000)	775775	40.0000	
5 1,4-Dioxane	88	3.005	3.005	(0.470)	54546	5.00000	5.203
32 Benzaldehyde	106	5.831	5.831	(0.912)	110149	5.00000	5.623
* 33 Naphthalene-d8	136	8.027	8.027	(1.000)	2755592	40.0000	
62 2,6-Dichlorophenol	162	8.128	8.128	(1.013)	102274	5.00000	4.974
57 Acetophenone	105	6.900	6.900	(1.079)	182329	5.00000	5.217
67 1,2,4,5-Tetrachlorobenzene	216	9.143	9.143	(1.139)	119838	5.00000	5.188
68 Caprolactam	113	8.529	8.529	(1.063)	34413	5.00000	4.427
* 69 Acenaphthene-d10	164	10.244	10.244	(1.000)	1627052	40.0000	
100 1,1'-Biphenyl	154	9.523	9.523	(0.930)	310582	5.00000	5.286
* 102 Phenanthrene-d10	188	12.092	12.092	(1.000)	2663524	40.0000	
129 Atrazine	200	11.734	11.734	(0.970)	79330	5.00000	5.081
* 132 Chrysene-d12	240	16.248	16.248	(1.000)	2897110	40.0000	
133 Benzidine	184	13.967	13.967	(0.860)	229041	5.00000	4.931
137 3,3'-Dichlorobenzidine	252	16.195	16.195	(0.997)	140714	5.00000	4.777
* 154 Perylene-d12	264	19.010	19.010	(1.000)	2900342	40.0000	

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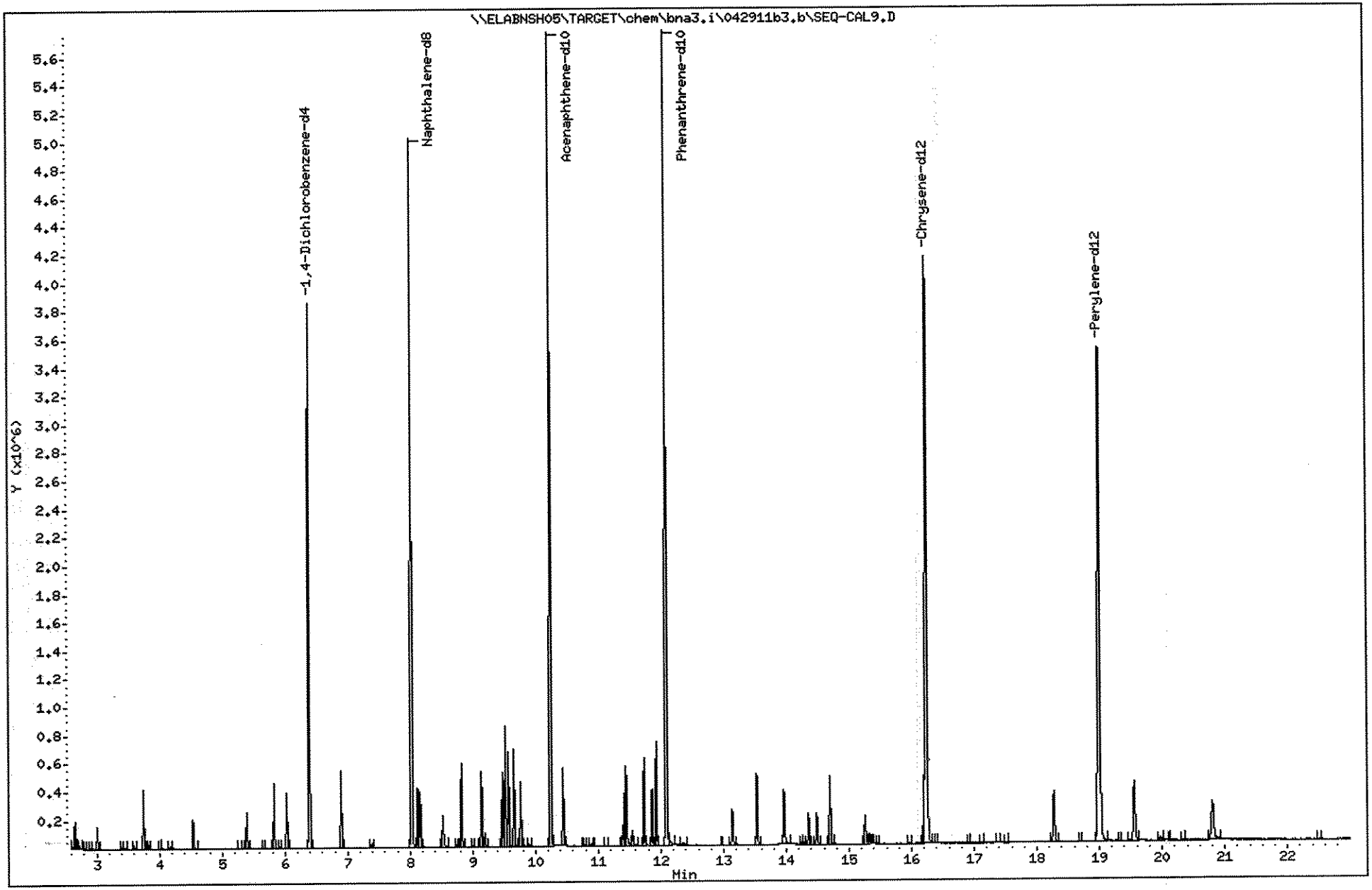
Data File: \\ELABNSH05\TARGET\chem\bna3.i\042911b3.b\SEQ-CAL9.D
Date : 29-APR-2011 22:09
Client ID: SEQ-CAL9
Sample Info: CAL5.0PPM;;;;;;11A0534

Column phase: fused silica

Instrument: bna3.i

Operator: MEC
Column diameter: 0.25



Data File: \\ELABNSH05\TARGET\chem\bna3.i\042911b3.b\SEQ-CALA.D
Report Date: 30-Apr-2011 15:11

Laboratory Name

Data file : \\ELABNSH05\TARGET\chem\bna3.i\042911b3.b\SEQ-CALA.D
Lab Smp Id: SEQ-CALA Client Smp ID: SEQ-CALA
Inj Date : 29-APR-2011 22:42 MS Autotune Date: 07-SEP-2010 05:33
Operator : MEC Inst ID: bna3.i
Smp Info : CAL10.0PPM;;;;;;11A0537
Misc Info : ;;;;;;cal_2.sub;
Comment :
Method : \\ELABNSH05\TARGET\chem\bna3.i\042911b3.b\IXBN3.m
Meth Date : 30-Apr-2011 15:11 mcobb Quant Type: ISTD
Cal Date : 30-APR-2011 01:58 Cal File: SEQ-CALG.D
Als bottle: 11 Calibration Sample, Level: 2
Dil Factor: 1.00000
Integrator: HP RTE Compound Sublist: cal_2.sub
Target Version: 4.04
Processing Host: TARGET09_VM

Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	AMOUNTS CAL-AMT (ng/ul)	AMOUNTS ON-COL (ng/ul)
* 1 1,4-Dichlorobenzene-d4	152	6.391	6.391	(1.000)	692546	40.0000	
5 1,4-Dioxane	88	2.999	2.999	(0.469)	96749	10.0000	10.34
32 Benzaldehyde	106	5.831	5.831	(0.912)	191203	10.0000	10.93
* 33 Naphthalene-d8	136	8.032	8.032	(1.000)	2447093	40.0000	
62 2,6-Dichlorophenol	162	8.133	8.133	(1.013)	184367	10.0000	10.10
57 Acetophenone	105	6.904	6.904	(1.080)	319209	10.0000	10.23
67 1,2,4,5-Tetrachlorobenzene	216	9.148	9.148	(1.139)	217722	10.0000	10.61
68 Caprolactam	113	8.539	8.539	(1.063)	67557	10.0000	9.786
* 69 Acenaphthene-d10	164	10.248	10.248	(1.000)	1430478	40.0000	
100 1,1'-Biphenyl	154	9.527	9.527	(0.930)	541561	10.0000	10.48
* 102 Phenanthrene-d10	188	12.097	12.097	(1.000)	2342358	40.0000	
129 Atrazine	200	11.744	11.744	(0.971)	142270	10.0000	10.36
* 132 Chrysene-d12	240	16.258	16.258	(1.000)	2578817	40.0000	
133 Benzidine	184	13.977	13.977	(0.860)	425409	10.0000	10.29
137 3,3'-Dichlorobenzidine	252	16.205	16.205	(0.997)	258027	10.0000	9.840
* 154 Perylene-d12	264	19.020	19.020	(1.000)	2571310	40.0000	

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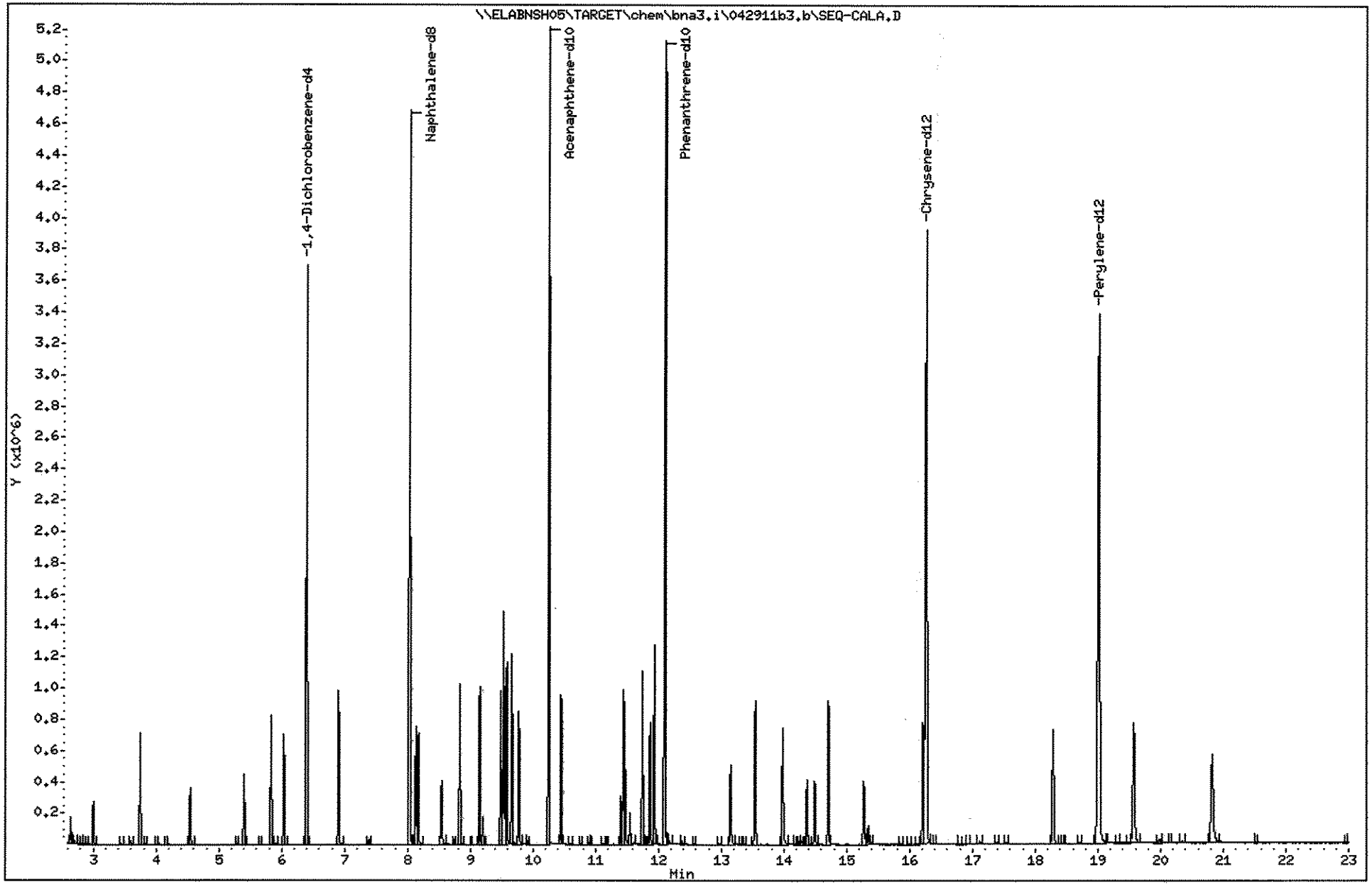
GLQ
5/6/11

Data File: \\ELABNSH05\TARGET\chem\bna3.i\042911b3.b\SEQ-CALA.D
Date : 29-APR-2011 22:42
Client ID: SEQ-CALA
Sample Info: CAL10.0PPM;;;;;;11A0537

Column phase: fused silica

Instrument: bna3.i

Operator: MEC
Column diameter: 0.25



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1110003

Data File: \\ELABNSH05\TARGET\chem\bna3.i\042911b3.b\SEQ-CALB.D
Report Date: 30-Apr-2011 15:11

Laboratory Name

Data file : \\ELABNSH05\TARGET\chem\bna3.i\042911b3.b\SEQ-CALB.D
Lab Smp Id: SEQ-CALB Client Smp ID: SEQ-CALB
Inj Date : 29-APR-2011 23:15 MS Autotune Date: 07-SEP-2010 05:33
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Misc Info : ;;;;;;cal_2.sub;
Comment :
Method : \\ELABNSH05\TARGET\chem\bna3.i\042911b3.b\IXBN3.m
Meth Date : 30-Apr-2011 15:11 mcobb Quant Type: ISTD
Cal Date : 30-APR-2011 01:58 Cal File: SEQ-CALG.D
Als bottle: 12 Calibration Sample, Level: 3
Dil Factor: 1.00000
Integrator: HP RTE Compound Sublist: cal_2.sub
Target Version: 4.04
Processing Host: TARGET09_VM

Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	AMOUNTS CAL-AMT (ng/ul)	AMOUNTS ON-COL (ng/ul)
* 1 1,4-Dichlorobenzene-d4	152	6.387	6.387	(1.000)	762338	40.0000	
5 1,4-Dioxane	88	2.979	2.979	(0.466)	199559	20.0000	19.37
32 Benzaldehyde	106	5.826	5.826	(0.912)	388636	20.0000	20.19
* 33 Naphthalene-d8	136	8.022	8.022	(1.000)	2698869	40.0000	
62 2,6-Dichlorophenol	162	8.123	8.123	(1.013)	393989	20.0000	19.56
57 Acetophenone	105	6.900	6.900	(1.080)	658209	20.0000	19.16
67 1,2,4,5-Tetrachlorobenzene	216	9.143	9.143	(1.140)	443263	20.0000	19.59
68 Caprolactam	113	8.545	8.545	(1.065)	151032	20.0000	19.84
* 69 Acenaphthene-d10	164	10.244	10.244	(1.000)	1585190	40.0000	
100 1,1'-Biphenyl	154	9.528	9.528	(0.930)	1096373	20.0000	19.15
* 102 Phenanthrene-d10	188	12.092	12.092	(1.000)	2616799	40.0000	
129 Atrazine	200	11.745	11.745	(0.971)	298072	20.0000	19.43
* 132 Chrysene-d12	240	16.254	16.254	(1.000)	2833376	40.0000	
133 Benzidine	184	13.973	13.973	(0.860)	915326	20.0000	20.15
137 3,3'-Dichlorobenzidine	252	16.206	16.206	(0.997)	560432	20.0000	19.45
* 154 Perylene-d12	264	19.010	19.010	(1.000)	2848254	40.0000	

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GLQ
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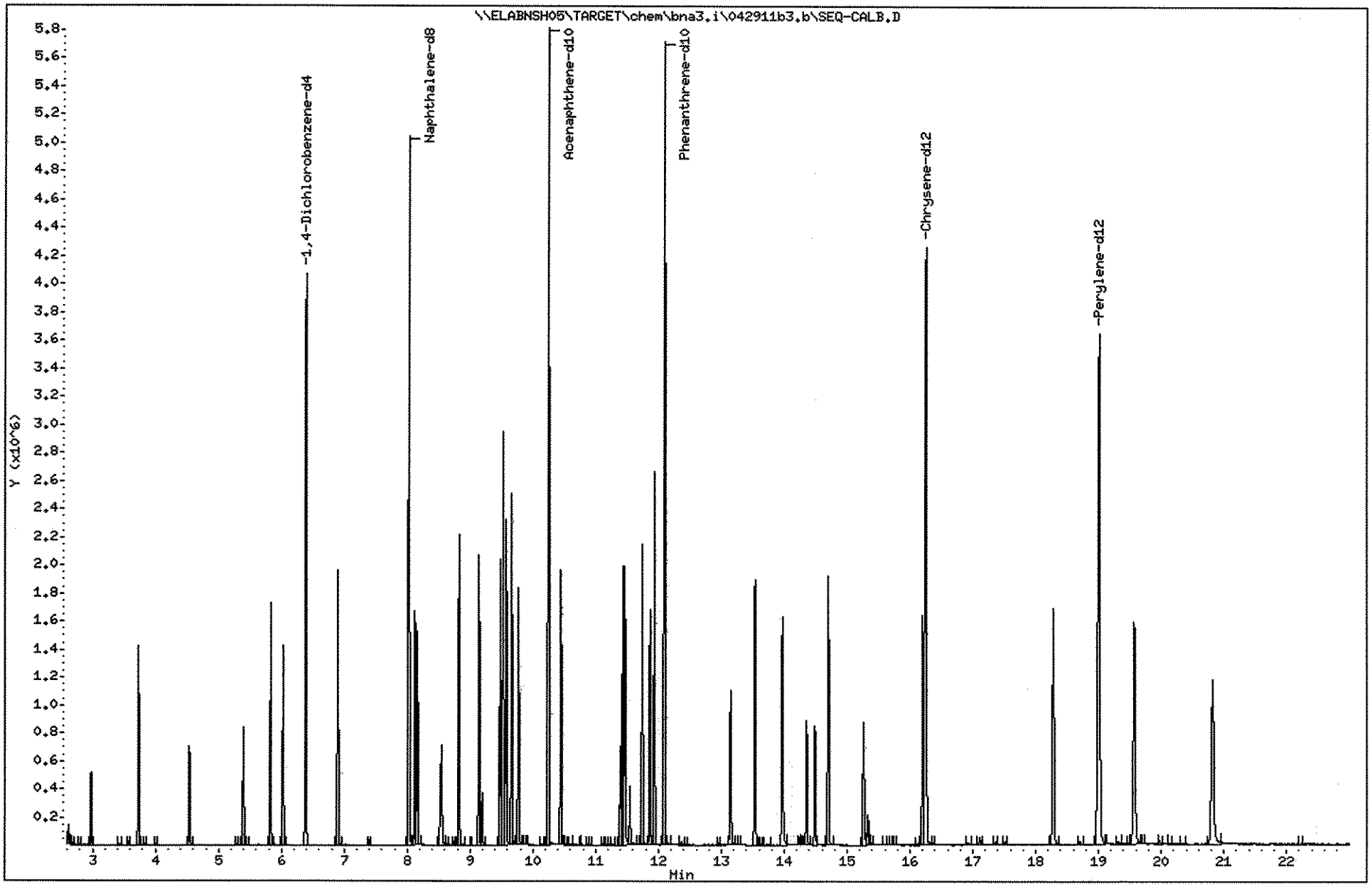
Data File: \\ELABNSH05\TARGET\chem\bna3.i\042911b3.b\SEQ-CALB.D
Date : 29-APR-2011 23:15
Client ID: SEQ-CALB
Sample Info: CAL20.0PPM;;;;;;11A0538

Column phase: fused silica

Instrument: bna3.i

Operator: MEC
Column diameter: 0.25



Data File: \\ELABNSH05\TARGET\chem\bna3.i\042911b3.b\SEQ-CALC.D
Report Date: 30-Apr-2011 15:11

Laboratory Name

Data file : \\ELABNSH05\TARGET\chem\bna3.i\042911b3.b\SEQ-CALC.D
Lab Smp Id: SEQ-CALC Client Smp ID: SEQ-CALC
Inj Date : 29-APR-2011 23:47 MS Autotune Date: 07-SEP-2010 05:33
Operator : MEC Inst ID: bna3.i
Smp Info : CAL40.0PPM;;;;;;11A0539
Misc Info : ;;;;;;cal_2.sub;
Comment :
Method : \\ELABNSH05\TARGET\chem\bna3.i\042911b3.b\IXBN3.m
Meth Date : 30-Apr-2011 15:11 mcobb Quant Type: ISTD
Cal Date : 30-APR-2011 01:58 Cal File: SEQ-CALG.D
Als bottle: 13 Calibration Sample, Level: 4
Dil Factor: 1.00000
Integrator: HP RTE Compound Sublist: cal_2.sub
Target Version: 4.04
Processing Host: TARGET09_VM

Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	AMOUNTS CAL-AMT (ng/ul)	AMOUNTS ON-COL (ng/ul)
* 1 1,4-Dichlorobenzene-d4	152	6.379	6.379	(1.000)	634839	40.0000	
5 1,4-Dioxane	88	2.955	2.955	(0.463)	332255	40.0000	38.73
32 Benzaldehyde	106	5.824	5.824	(0.913)	651463	40.0000	40.64
* 33 Naphthalene-d8	136	8.020	8.020	(1.000)	2273366	40.0000	
62 2,6-Dichlorophenol	162	8.126	8.126	(1.013)	700672	40.0000	41.30
57 Acetophenone	105	6.898	6.898	(1.081)	1153493	40.0000	40.33
67 1,2,4,5-Tetrachlorobenzene	216	9.141	9.141	(1.140)	770368	40.0000	40.43
68 Caprolactam	113	8.559	8.559	(1.067)	268022	40.0000	41.79
* 69 Acenaphthene-d10	164	10.242	10.242	(1.000)	1321770	40.0000	
100 1,1'-Biphenyl	154	9.526	9.526	(0.930)	1884753	40.0000	39.49
* 102 Phenanthrene-d10	188	12.090	12.090	(1.000)	2193684	40.0000	
129 Atrazine	200	11.748	11.748	(0.972)	512392	40.0000	39.85
* 132 Chrysene-d12	240	16.246	16.246	(1.000)	2362210	40.0000	
133 Benzidine	184	13.976	13.976	(0.860)	1568539	40.0000	41.42
137 3,3'-Dichlorobenzidine	252	16.204	16.204	(0.997)	992437	40.0000	41.32
* 154 Perylene-d12	264	19.003	19.003	(1.000)	2347592	40.0000	

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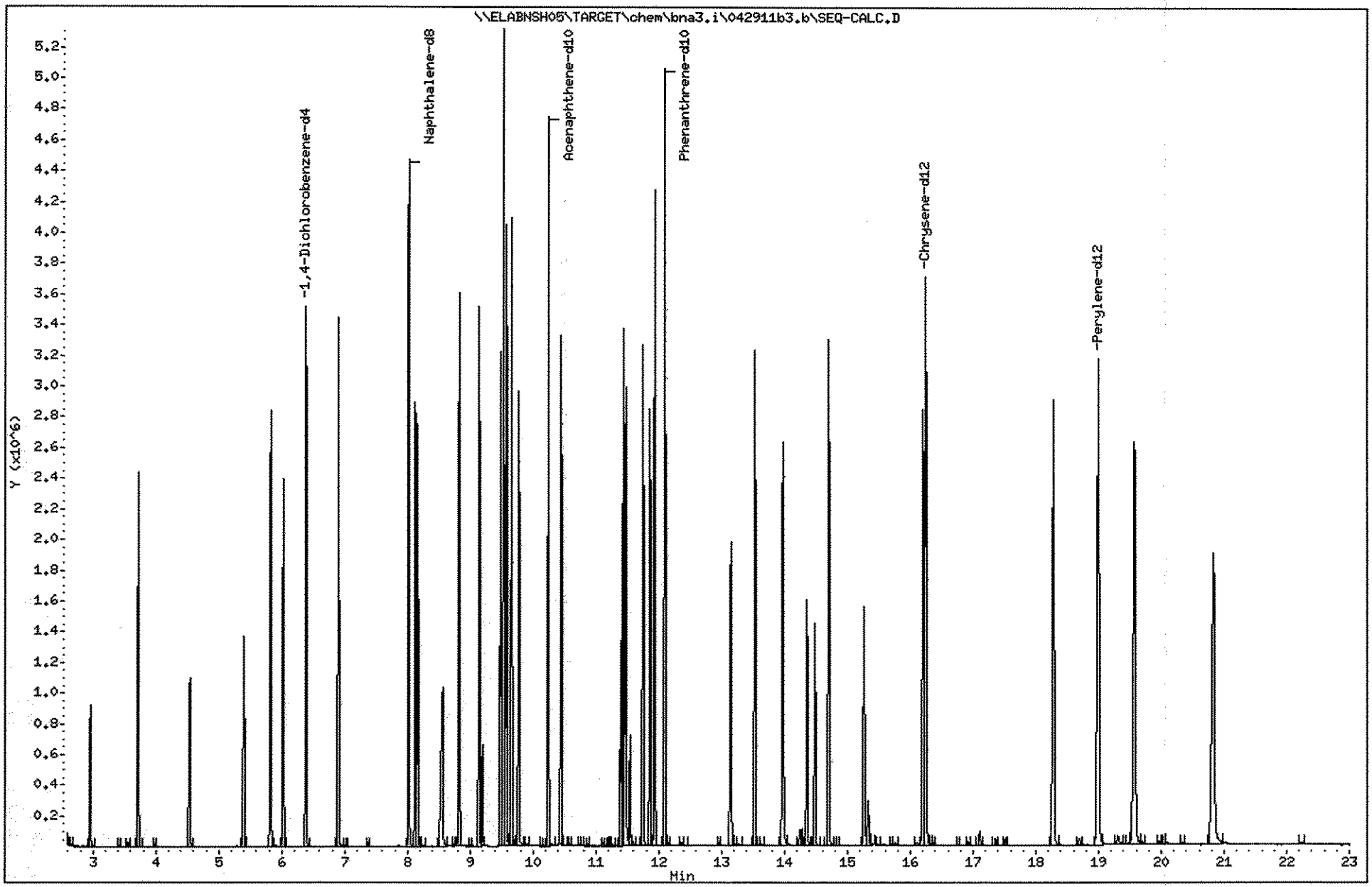
Data File: \\ELABNSH05\TARGET\chem\bna3.i\042911b3.b\SEQ-CALC.D
Date : 29-APR-2011 23:47
Client ID: SEQ-CALC
Sample Info: CAL40.0PPM;;;;;;11A0539

Instrument: bna3.i

Operator: MEC

Column phase: fused silica

Column diameter: 0.25



Data File: \\ELABNSH05\TARGET\chem\bna3.i\042911b3.b\SEQ-CALD.D
Report Date: 30-Apr-2011 15:12

Laboratory Name

Data file : \\ELABNSH05\TARGET\chem\bna3.i\042911b3.b\SEQ-CALD.D
Lab Smp Id: SEQ-CALD Client Smp ID: SEQ-CALD
Inj Date : 30-APR-2011 00:20 MS Autotune Date: 07-SEP-2010 05:33
Operator : MEC Inst ID: bna3.i
Smp Info : CAL50.0PPM;;;;;;11A0540
Misc Info : ;;;;;;cal_2.sub;
Comment :
Method : \\ELABNSH05\TARGET\chem\bna3.i\042911b3.b\IXBN3.m
Meth Date : 30-Apr-2011 15:11 mcobb Quant Type: ISTD
Cal Date : 30-APR-2011 01:58 Cal File: SEQ-CALG.D
Als bottle: 14 Calibration Sample, Level: 5
Dil Factor: 1.00000
Integrator: HP RTE Compound Sublist: cal_2.sub
Target Version: 4.04
Processing Host: TARGET09_VM

Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	AMOUNTS CAL-AMT (ng/ul)	AMOUNTS ON-COL (ng/ul)
* 1 1,4-Dichlorobenzene-d4	152	6.380	6.380	(1.000)	372214	40.0000	
5 1,4-Dioxane	88	2.945	2.945	(0.462)	245308	50.0000	48.76
32 Benzaldehyde	106	5.819	5.819	(0.912)	456770	50.0000	48.60
* 33 Naphthalene-d8	136	8.015	8.015	(1.000)	1376998	40.0000	
62 2,6-Dichlorophenol	162	8.122	8.122	(1.013)	500021	50.0000	48.66
57 Acetophenone	105	6.893	6.893	(1.080)	832395	50.0000	49.64
67 1,2,4,5-Tetrachlorobenzene	216	9.137	9.137	(1.140)	564259	50.0000	48.89
68 Caprolactam	113	8.549	8.549	(1.067)	196944	50.0000	50.70
* 69 Acenaphthene-d10	164	10.237	10.237	(1.000)	776204	40.0000	
100 1,1'-Biphenyl	154	9.521	9.521	(0.930)	1389357	50.0000	49.57
* 102 Phenanthrene-d10	188	12.086	12.086	(1.000)	1281508	40.0000	
129 Atrazine	200	11.744	11.744	(0.972)	377913	50.0000	50.31
* 132 Chrysene-d12	240	16.237	16.237	(1.000)	1378789	40.0000	
133 Benzidine	184	13.966	13.966	(0.860)	1106608	50.0000	50.06
137 3,3'-Dichlorobenzidine	252	16.199	16.199	(0.998)	710945	50.0000	50.71
* 154 Perylene-d12	264	18.988	18.988	(1.000)	1357688	40.0000	

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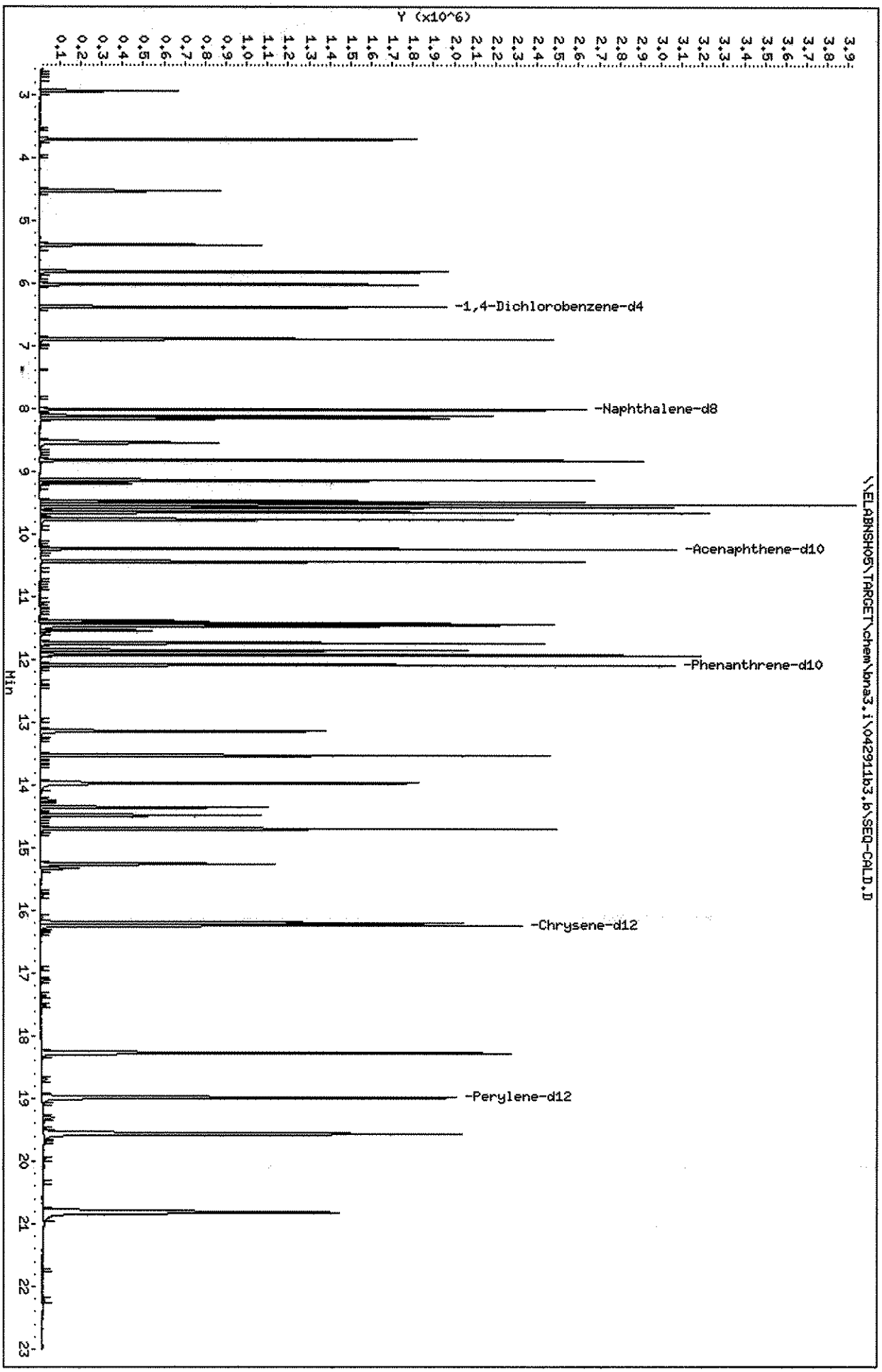
Data File: \\ELABNSH05\TARGET\chem\bna3.i\042911b3.b\SEQ-CALD.D
Date : 30-APR-2011 00:20
Client ID: SEQ-CALD
Sample Info: CAL50.0PPM;;;;;;11A0540
Column phase: fused silica

Instrument: bna3.i
Operator: MEC
Column diameter: 0.25



Data File: \\ELABNSH05\TARGET\chem\bna3.i\042911b3.b\SEQ-CALE.D
Report Date: 30-Apr-2011 15:12

Laboratory Name

Data file : \\ELABNSH05\TARGET\chem\bna3.i\042911b3.b\SEQ-CALE.D
Lab Smp Id: SEQ-CALE Client Smp ID: SEQ-CALE
Inj Date : 30-APR-2011 00:53 MS Autotune Date: 07-SEP-2010 05:33
Operator : MEC Inst ID: bna3.i
Smp Info : CAL60.0PPM;;;;;;11A0541
Misc Info : ;;;;;;cal_2.sub;
Comment :
Method : \\ELABNSH05\TARGET\chem\bna3.i\042911b3.b\IXBN3.m
Meth Date : 30-Apr-2011 15:12 mcobb Quant Type: ISTD
Cal Date : 30-APR-2011 01:58 Cal File: SEQ-CALG.D
Als bottle: 15 Calibration Sample, Level: 6
Dil Factor: 1.00000
Integrator: HP RTE Compound Sublist: cal_2.sub
Target Version: 4.04
Processing Host: TARGET09_VM

Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	AMOUNTS CAL-AMT (ng/ul)	AMOUNTS ON-COL (ng/ul)
* 1 1,4-Dichlorobenzene-d4	152	6.382	6.382	(1.000)	465036	40.0000	
5 1,4-Dioxane	88	2.958	2.958	(0.463)	376749	60.0000	59.95
32 Benzaldehyde	106	5.827	5.827	(0.913)	672156	60.0000	57.24
* 33 Naphthalene-d8	136	8.022	8.022	(1.000)	1684084	40.0000	
62 2,6-Dichlorophenol	162	8.129	8.129	(1.013)	763197	60.0000	60.73
57 Acetophenone	105	6.900	6.900	(1.081)	1235183	60.0000	58.96
67 1,2,4,5-Tetrachlorobenzene	216	9.144	9.144	(1.140)	835589	60.0000	59.19
68 Caprolactam	113	8.562	8.562	(1.067)	297114	60.0000	62.54
* 69 Acenaphthene-d10	164	10.245	10.245	(1.000)	966679	40.0000	
100 1,1'-Biphenyl	154	9.529	9.529	(0.930)	2033615	60.0000	58.26
* 102 Phenanthrene-d10	188	12.093	12.093	(1.000)	1577061	40.0000	
129 Atrazine	200	11.751	11.751	(0.972)	549219	60.0000	59.41
* 132 Chrysene-d12	240	16.244	16.244	(1.000)	1715007	40.0000	
133 Benzidine	184	13.979	13.979	(0.861)	1657277	60.0000	60.27
137 3,3'-Dichlorobenzidine	252	16.206	16.206	(0.998)	1055052	60.0000	60.50
* 154 Perylene-d12	264	19.000	19.000	(1.000)	1677672	40.0000	

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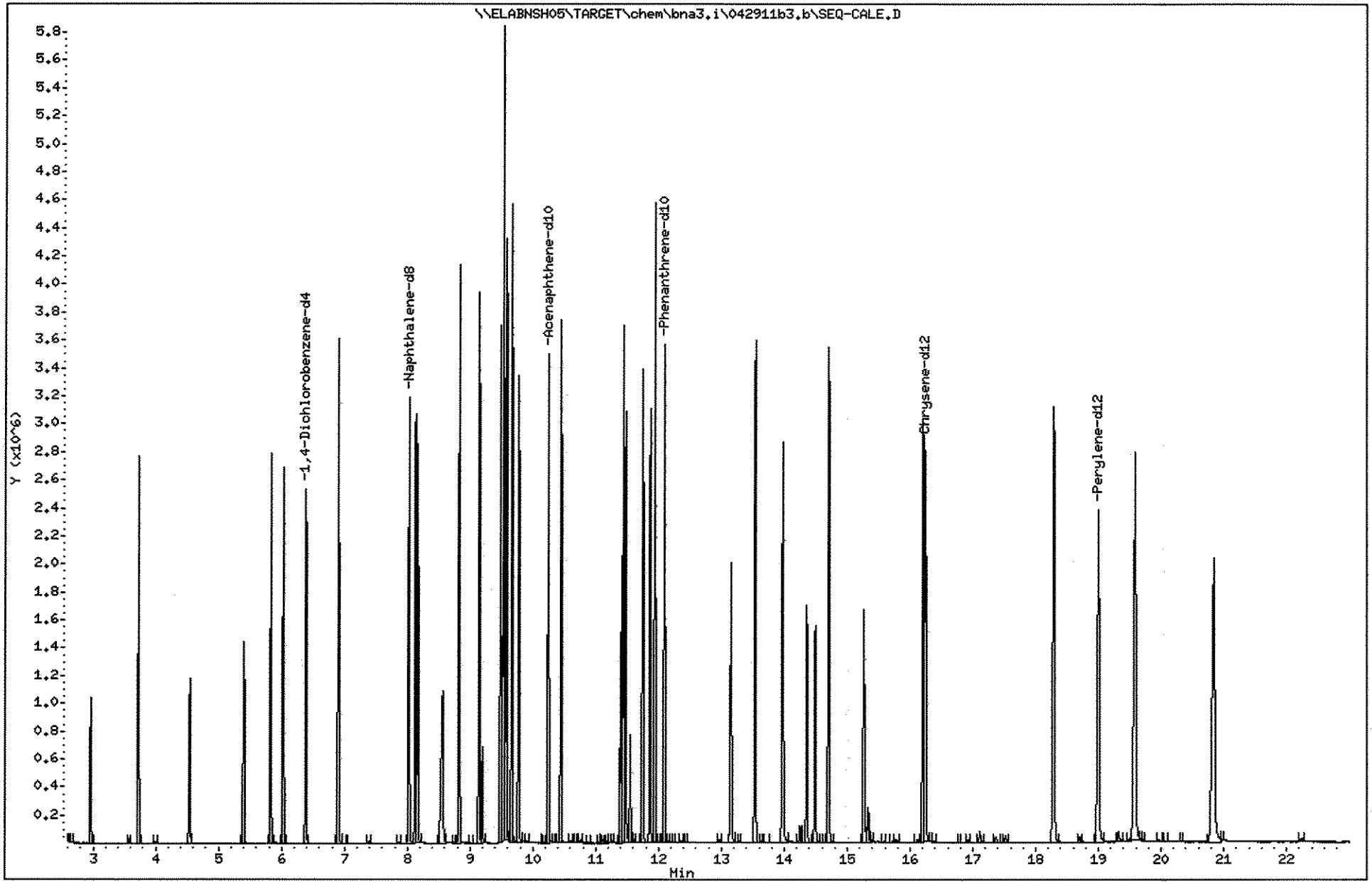
5/6/11

Data File: \\ELABNSH05\TARGET\chem\bna3.i\042911b3.b\SEQ-CALE.D
Date : 30-APR-2011 00:53
Client ID: SEQ-CALE
Sample Info: CAL60.0PPM;;;;;;11A0541

Column phase: fused silica

Instrument: bna3.i

Operator: MEC
Column diameter: 0.25



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Report Date: 30-Apr-2011 15:12

Laboratory Name

Data file : \\ELABNSH05\TARGET\chem\bna3.i\042911b3.b\SEQ-CALF.D
Lab Smp Id: SEQ-CALF
Client Smp ID: SEQ-CALF
Inj Date : 30-APR-2011 01:25
MS Autotune Date: 07-SEP-2010 05:33
Operator : MEC
Inst ID: bna3.i
Smp Info : CAL80.0PPM;;;;;;11A0542
Misc Info : ;;;;;;cal_2.sub;
Comment :
Method : \\ELABNSH05\TARGET\chem\bna3.i\042911b3.b\IXBN3.m
Meth Date : 30-Apr-2011 15:12 mcobb
Quant Type: ISTD
Cal Date : 30-APR-2011 01:58
Cal File: SEQ-CALG.D
Als bottle: 16
Calibration Sample, Level: 7
Dil Factor: 1.00000
Integrator: HP RTE
Compound Sublist: cal_2.sub
Target Version: 4.04
Processing Host: TARGET09_VM

Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	AMOUNTS CAL-AMT (ng/ul)	AMOUNTS ON-COL (ng/ul)
* 1 1,4-Dichlorobenzene-d4	152	6.383	6.383	(1.000)	233659	40.0000	
5 1,4-Dioxane	88	2.948	2.948	(0.462)	266169	80.0000	84.29
32 Benzaldehyde	106	5.822	5.822	(0.912)	445204	80.0000	75.45
* 33 Naphthalene-d8	136	8.017	8.017	(1.000)	873475	40.0000	
62 2,6-Dichlorophenol	162	8.124	8.124	(1.013)	521927	80.0000	80.08
57 Acetophenone	105	6.901	6.901	(1.081)	846803	80.0000	80.45
67 1,2,4,5-Tetrachlorobenzene	216	9.139	9.139	(1.140)	574851	80.0000	78.52
68 Caprolactam	113	8.552	8.552	(1.067)	198986	80.0000	80.75
* 69 Acenaphthene-d10	164	10.240	10.240	(1.000)	484537	40.0000	
100 1,1'-Biphenyl	154	9.524	9.524	(0.930)	1419979	80.0000	81.15
* 102 Phenanthrene-d10	188	12.088	12.088	(1.000)	806265	40.0000	
129 Atrazine	200	11.746	11.746	(0.972)	377769	80.0000	79.93
* 132 Chrysene-d12	240	16.239	16.239	(1.000)	869967	40.0000	
133 Benzidine	184	13.974	13.974	(0.861)	1098405	80.0000	78.75
137 3,3'-Dichlorobenzidine	252	16.202	16.202	(0.998)	719465	80.0000	81.33
* 154 Perylene-d12	264	18.990	18.990	(1.000)	855438	40.0000	

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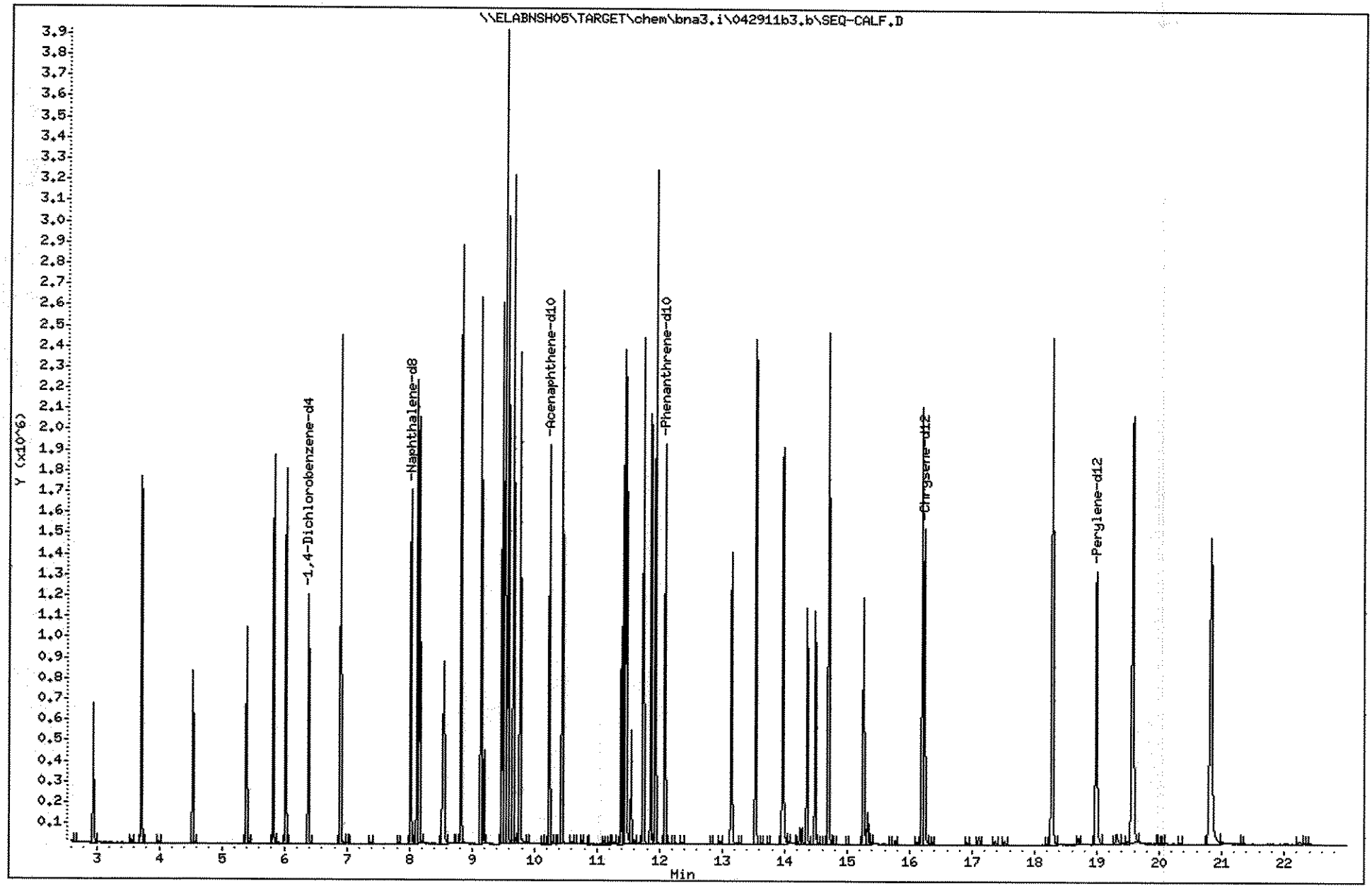
Data File: \\ELABNSH05\TARGET\chem\bna3.i\042911b3.b\SEQ-CALF.D
Date : 30-APR-2011 01:25
Client ID: SEQ-CALF
Sample Info: CAL80.0PPM;;;;;;11A0542

Column phase: fused silica

Instrument: bna3.i

Operator: MEC
Column diameter: 0.25



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Report Date: 30-Apr-2011 15:12

Laboratory Name

Data file : \\ELABNSH05\TARGET\chem\bna3.i\042911b3.b\SEQ-CALG.D
Lab Smp Id: SEQ-CALG
Client Smp ID: SEQ-CALG
Inj Date : 30-APR-2011 01:58
MS Autotune Date: 07-SEP-2010 05:33
Operator : MEC
Inst ID: bna3.i
Smp Info : CAL100.0PPM;;;;;;11A0543
Misc Info : ;;;;;;cal_2.sub;
Comment :
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Meth Date : 30-Apr-2011 15:12 mcobb
Quant Type: ISTD
Cal Date : 30-APR-2011 01:58
Cal File: SEQ-CALG.D
Als bottle: 17
Calibration Sample, Level: 8
Dil Factor: 1.00000
Integrator: HP RTE
Compound Sublist: cal_2.sub
Target Version: 4.04
Processing Host: TARGET09_VM

Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	AMOUNTS CAL-AMT (ng/ul)	AMOUNTS ON-COL (ng/ul)
* 1 1,4-Dichlorobenzene-d4	152	6.380	6.380	(1.000)	312845	40.0000	
5 1,4-Dioxane	88	2.940	2.940	(0.461)	406346	100.000	96.11
32 Benzaldehyde	106	5.825	5.825	(0.913)	701417	100.000	88.78
* 33 Naphthalene-d8	136	8.020	8.020	(1.000)	1144624	40.0000	
62 2,6-Dichlorophenol	162	8.127	8.127	(1.013)	852682	100.000	99.83
57 Acetophenone	105	6.904	6.904	(1.082)	1389287	100.000	98.58
67 1,2,4,5-Tetrachlorobenzene	216	9.142	9.142	(1.140)	925594	100.000	96.47
68 Caprolactam	113	8.571	8.571	(1.069)	333777	100.000	103.4(A)
* 69 Acenaphthene-d10	164	10.243	10.243	(1.000)	645279	40.0000	
100 1,1'-Biphenyl	154	9.532	9.532	(0.931)	2266970	100.000	97.29
* 102 Phenanthrene-d10	188	12.091	12.091	(1.000)	1073253	40.0000	
129 Atrazine	200	11.754	11.754	(0.972)	619197	100.000	98.42
* 132 Chrysene-d12	240	16.242	16.242	(1.000)	1144694	40.0000	
133 Benzidine	184	13.982	13.982	(0.861)	1746656	100.000	95.17
137 3,3'-Dichlorobenzidine	252	16.210	16.210	(0.998)	1182294	100.000	101.6(A)
* 154 Perylene-d12	264	18.993	18.993	(1.000)	1115973	40.0000	

QC Flag Legend

A - Target compound detected but, quantitated amount exceeded maximum amount.

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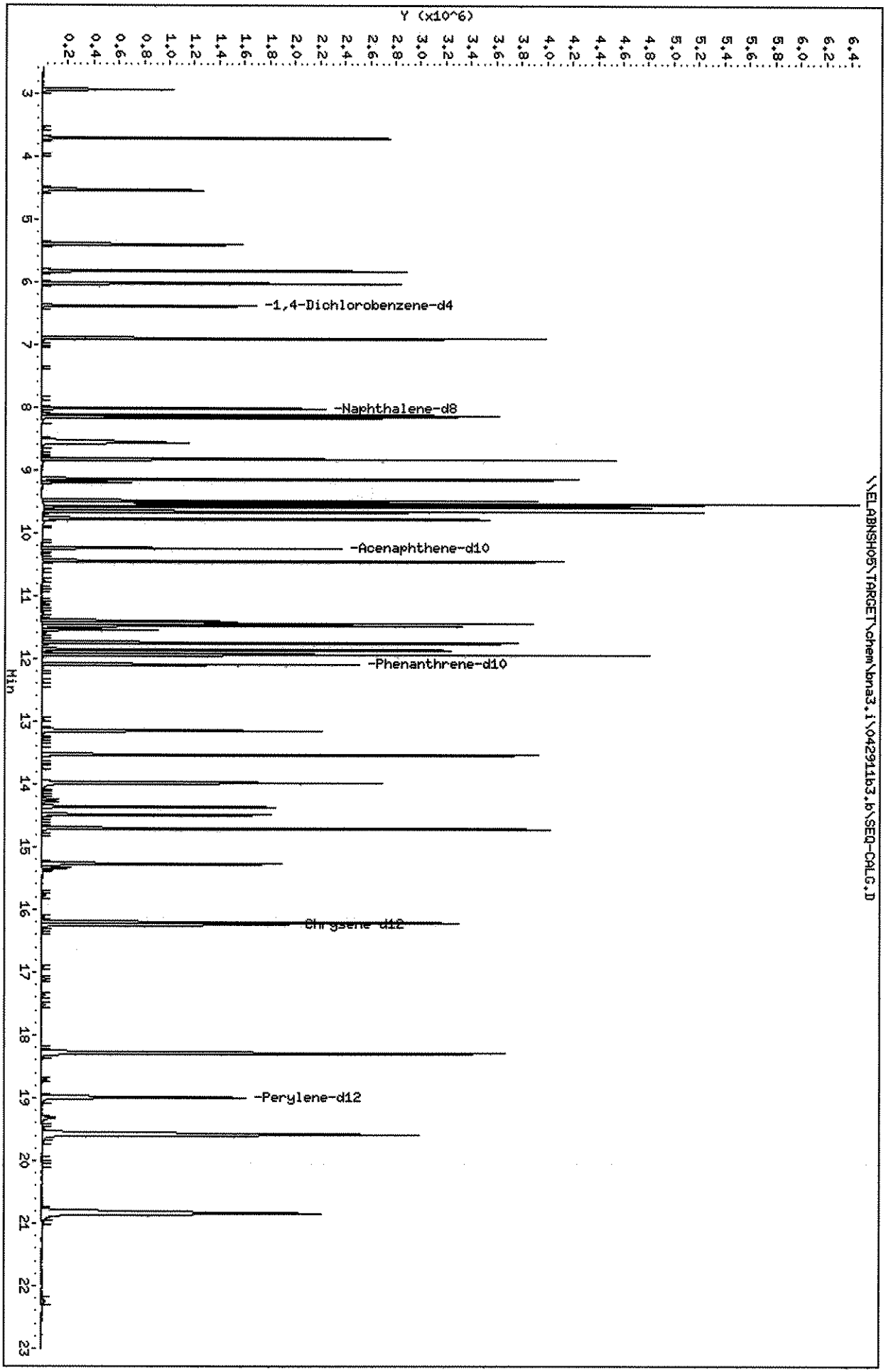
Data File: \\ELABNSHO5\TARGET\chem\bna3.i\042911b3.b\SEQ-CALC.D
Date : 30-APR-2011 01:58
Client ID: SEQ-CALC
Sample Info: CAL100,0PPM;;;;;;;11A0543
Column phase: fused silica

Instrument: bna3.i
Operator: MEC
Column diameter: 0.25



Data File: \\ELABNSH05\TARGET\chem\bna3.i\043011b3.b\SEQ-ICV1.D
Report Date: 02-May-2011 11:30

Laboratory Name

Data file : \\ELABNSH05\TARGET\chem\bna3.i\043011b3.b\SEQ-ICV1.D
Lab Smp Id: SEQ-ICV1 Client Smp ID: SEQ-ICV1
Inj Date : 30-APR-2011 15:07 MS Autotune Date: 07-SEP-2010 05:33
Operator : MEC Inst ID: bna3.i
Smp Info : ICV-50PPM;;;;;;11A0288
Misc Info : ;0;;;;;cal_1.sub;
Comment :
Method : \\ELABNSH05\TARGET\chem\bna3.i\043011b3.b\IXBN3.m
Meth Date : 30-Apr-2011 15:33 mcobb Quant Type: ISTD
Cal Date : 30-APR-2011 01:58 Cal File: SEQ-CALG.D
Als bottle: 2
Dil Factor: 1.00000
Integrator: HP RTE Compound Sublist: cal_1.sub
Target Version: 4.04

	Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS ON-COLUMN (ng/ul)	FINAL (ng/ul)
*	1 1,4-Dichlorobenzene-d4	152	6.391	6.389	(1.000)	557812	40.0000	
$	2 2-Fluorophenol	112	4.741	4.738	(0.742)	1824636	114.556	114.6(AR)
$	3 Phenol-d6	99	5.911	5.908	(0.925)	2348763	107.075	107.1(AR)
	4 Pyridine	79	3.314	3.306	(0.519)	1147555	55.4959	55.50
	6 N-Nitroso-di-methylamine	42	3.272	3.264	(0.512)	518052	54.2618	54.26
	7 Aniline	93	5.969	5.967	(0.934)	1370564	46.8141	46.81
	10 Phenol	94	5.932	5.924	(0.928)	1225150	52.0555	52.06
	11 bis(2-Chloroethyl)ether	93	6.055	6.052	(0.947)	951488	52.5719	52.57
	12 2-Chlorophenol	128	6.119	6.116	(0.957)	979501	53.4134	53.41
	13 1,3-Dichlorobenzene	146	6.317	6.314	(0.988)	1042687	52.3689	52.37
	14 1,4-Dichlorobenzene	146	6.413	6.416	(1.003)	1065981	52.9014	52.90
	15 Benzyl alcohol	108	6.573	6.565	(1.028)	672609	55.6459	55.64
	16 1,2-Dichlorobenzene	146	6.605	6.603	(1.033)	1006898	53.3352	53.34
	17 2-Methylphenol	108	6.707	6.699	(1.049)	887821	52.6747	52.67
	18 2,2'-Oxybis-1-chloropropane	45	6.749	6.747	(1.056)	1410133	51.9327	51.93
	19 3-Methylphenol	108	6.915	6.907	(1.082)	905598	51.1975	51.20
	20 4-Methylphenol	108	6.915	6.907	(1.082)	905598	51.1975	51.20
	21 N-Nitroso-di-n-propylamine	70	6.926	6.923	(1.084)	782234	54.2504	54.25
	22 Hexachloroethane	117	7.043	7.041	(1.102)	407192	53.4331	53.43
*	33 Naphthalene-d8	136	8.031	8.029	(1.000)	1995847	40.0000	
$	34 Nitrobenzene-d5	82	7.107	7.105	(0.885)	1137555	55.9403	55.94(R)
	35 Nitrobenzene	77	7.134	7.131	(0.888)	1081234	52.7509	52.75
	39 Isophorone	82	7.455	7.447	(0.928)	1903610	51.2598	51.26
	40 2-Nitrophenol	139	7.540	7.537	(0.939)	518963	53.5727	53.57
	42 2,4-Dimethylphenol	107	7.599	7.596	(0.946)	976275	53.8032	53.80
	43 Benzoic acid	105	7.791	7.772	(0.970)	754308	56.4215	56.42
	44 bis(2-Chloroethoxy)methane	93	7.732	7.730	(0.963)	1163163	54.5957	54.60

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GLQ
5/6/11

Data File: \\ELABNSH05\TARGET\chem\bna3.i\043011b3.b\SEQ-ICV1.D
Report Date: 02-May-2011 11:30

Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS ON-COLUMN (ng/ul)	FINAL (ng/ul)
47 2,4-Dichlorophenol	162	7.850	7.847	(0.977)	794623	52.2709	52.27
50 1,2,4-Trichlorobenzene	180	7.957	7.954	(0.991)	863130	50.5551	50.56
51 Naphthalene	128	8.058	8.056	(1.003)	2626062	52.8472	52.85
52 4-Chloroaniline	127	8.128	8.125	(1.012)	1070543	50.7781	50.78
53 Hexachlorobutadiene	225	8.218	8.216	(1.023)	527936	56.6245	56.62
54 4-Chloro-3-methylphenol	107	8.742	8.739	(1.088)	818631	52.6949	52.69
55 2-Methylnaphthalene	141	8.940	8.937	(1.113)	1556453	52.2143	52.21
56 1-Methylnaphthalene	141	9.068	9.065	(1.129)	1478966	50.4724	50.47
* 69 Acenaphthene-d10	164	10.254	10.251	(1.000)	1155973	40.0000	
70 Hexachlorocyclopentadiene	237	9.137	9.135	(0.891)	547326	50.5075	50.51
71 2,4,6-Trichlorophenol	196	9.292	9.290	(0.906)	592636	53.6825	53.68
72 2,4,5-Trichlorophenol	196	9.335	9.332	(0.910)	628297	52.4807	52.48
73 2-Chloronaphthalene	162	9.554	9.551	(0.932)	1658621	52.7623	52.76
$ 74 2-Fluorobiphenyl	172	9.410	9.407	(0.918)	1978695	54.1075	54.11(R)
75 2-Nitroaniline	65	9.688	9.680	(0.945)	575960	53.8611	53.86
76 Dimethylphthalate	163	9.939	9.931	(0.969)	1872960	52.0795	52.08
77 Acenaphthylene	152	10.078	10.075	(0.983)	2596321	52.0750	52.07
78 2,6-Dinitrotoluene	165	10.003	10.000	(0.976)	463411	53.5966	53.60
79 3-Nitroaniline	138	10.211	10.203	(0.996)	496709	53.1988	53.20
80 Acenaphthene	153	10.297	10.294	(1.004)	1636044	50.9853	50.98
83 4-Nitrophenol	65	10.409	10.401	(1.015)	422342	53.6957	53.70
84 Dibenzofuran	168	10.510	10.508	(1.025)	2358819	53.1699	53.17
85 2,4-Dinitrotoluene	165	10.500	10.497	(1.024)	601829	52.9921	52.99
86 Diethylphthalate	149	10.809	10.801	(1.054)	1801711	52.1828	52.18
87 4-Chlorophenyl-phenylether	204	10.938	10.935	(1.067)	933594	51.8250	51.82
88 Fluorene	166	10.938	10.935	(1.067)	2038481	52.7374	52.74
89 4-Nitroaniline	138	10.980	10.967	(1.071)	501377	53.0085	53.01
96 2,3,4,6-Tetrachlorophenol	232	10.660	10.657	(1.040)	484434	50.1773	50.18
* 102 Phenanthrene-d10	188	12.097	12.094	(1.000)	1900041	40.0000	
103 1,2-Diphenylhydrazine	77	11.141	11.133	(0.921)	2088621	51.6862	51.69
104 Carbazole	167	12.401	12.393	(1.025)	2544270	51.2863	51.29
106 N-Nitrosodiphenylamine	169	11.093	11.090	(0.917)	1701675	53.2390	53.24
$ 107 2,4,6-Tribromophenol	330	11.237	11.234	(0.929)	570120	109.242	109.2(AR)
108 4-Bromophenyl-phenylether	248	11.547	11.544	(0.955)	574261	52.9130	52.91
109 Hexachlorobenzene	284	11.616	11.608	(0.960)	621318	53.5275	53.53
111 Phenanthrene	178	12.134	12.126	(1.003)	2728162	53.3837	53.38
112 Anthracene	178	12.198	12.190	(1.008)	2761713	53.2091	53.21
115 Di-n-butylphthalate	149	12.871	12.869	(1.064)	2928883	52.1647	52.16
116 Fluoranthene	202	13.774	13.766	(1.139)	3088710	52.7007	52.70
* 132 Chrysene-d12	240	16.269	16.261	(1.000)	2024170	40.0000	
134 Pyrene	202	14.127	14.119	(0.868)	3224686	54.7564	54.76
$ 135 Terphenyl-d14	244	14.389	14.381	(0.884)	2072060	54.8717	54.87(R)
136 Butylbenzylphthalate	149	15.259	15.257	(0.938)	1474995	56.8200	56.82
138 Benzo(a)anthracene	228	16.242	16.240	(0.998)	3055438	53.9437	53.94
139 Chrysene	228	16.322	16.315	(1.003)	2829832	53.3665	53.37
140 Bis(2-ethylhexyl)phthalate	149	16.387	16.384	(1.007)	1883843	54.8014	54.80
* 154 Perylene-d12	264	19.020	19.012	(1.000)	1963866	40.0000	

Data File: \\ELABNSH05\TARGET\chem\bna3.i\043011b3.b\SEQ-ICV1.D
Report Date: 02-May-2011 11:30

Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS ON-COLUMN (ng/ul)	FINAL (ng/ul)
155 Di-n-octylphthalate	149	17.685	17.682	(0.930)	3285300	55.5613	55.56
156 Benzo(b)fluoranthene	252	18.310	18.302	(0.963)	2862006	53.2993	53.30
157 Benzo(k)fluoranthene	252	18.368	18.361	(0.966)	2964041	54.5003	54.50
158 Benzo(a)pyrene	252	18.919	18.905	(0.995)	2811960	54.7625	54.76
159 Indeno(1,2,3-cd)pyrene	276	21.259	21.240	(1.118)	2842602	55.7781	55.78
160 Dibenz(a,h)anthracene	278	21.328	21.309	(1.121)	2782350	56.4182	56.42
161 Benzo(g,h,i)perylene	276	21.910	21.897	(1.152)	2804283	55.2855	55.28

QC Flag Legend

A - Target compound detected but, quantitated amount exceeded maximum amount.
R - Spike/Surrogate failed recovery limits.

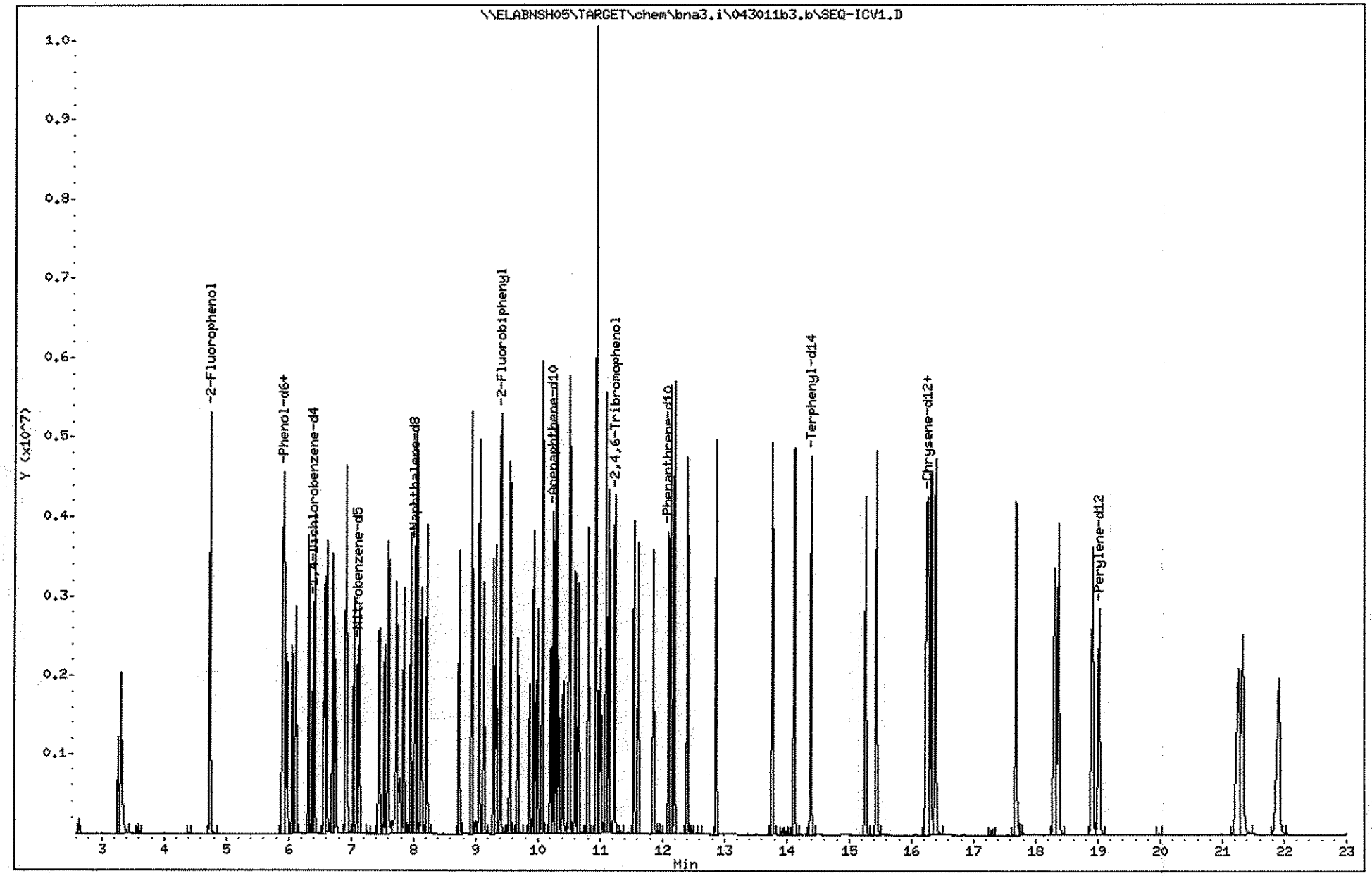
Data File: \\ELABNSH05\TARGET\chem\bna3.i\043011b3.b\SEQ-ICV1.D
Date : 30-APR-2011 15:07
Client ID: SEQ-ICV1
Sample Info: ICV-50PPM;;;;;;11A0288

Instrument: bna3.i

Operator: MEC

Column phase: fused silica

Column diameter: 0.25



Data File: \\ELABNSH05\TARGET\chem\bna3.i\043011b3.b\SEQ-ICV2.D
Report Date: 02-May-2011 11:31

Laboratory Name

Data file : \\ELABNSH05\TARGET\chem\bna3.i\043011b3.b\SEQ-ICV2.D
Lab Smp Id: SEQ-ICV2 Client Smp ID: SEQ-ICV2
Inj Date : 30-APR-2011 15:40 MS Autotune Date: 07-SEP-2010 05:33
Operator : MEC Inst ID: bna3.i
Smp Info : ICV-50PPM;;;;;;11A0290
Misc Info : ;0;;;;;cal_2.sub;
Comment :
Method : \\ELABNSH05\TARGET\chem\bna3.i\043011b3.b\IXBN3.m
Meth Date : 30-Apr-2011 15:33 mcobb Quant Type: ISTD
Cal Date : 30-APR-2011 01:58 Cal File: SEQ-CALG.D
Als bottle: 3
Dil Factor: 1.00000
Integrator: HP RTE Compound Sublist: cal_2.sub
Target Version: 4.04
Processing Host: TARGET09_VM

Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS ON-COLUMN (ng/ul)	FINAL (ng/ul)
* 1 1,4-Dichlorobenzene-d4	152	6.386	6.389	(1.000)	628383	40.0000	
5 1,4-Dioxane	88	2.972	2.940	(0.465)	414645	48.8259	48.82
32 Benzaldehyde	106	5.830	5.825	(0.913)	618815	38.9969	39.00
* 33 Naphthalene-d8	136	8.021	8.029	(1.000)	2284344	40.0000	
62 2,6-Dichlorophenol	162	8.127	8.127	(1.013)	883820	51.8501	51.85
57 Acetophenone	105	6.904	6.904	(1.081)	1383758	48.8815	48.88
67 1,2,4,5-Tetrachlorobenzene	216	9.142	9.142	(1.140)	987393	51.5676	51.57
68 Caprolactam	113	8.571	8.571	(1.069)	364588	56.5757	56.58
* 69 Acenaphthene-d10	164	10.243	10.251	(1.000)	1337189	40.0000	
100 1,1'-Biphenyl	154	9.527	9.532	(0.930)	2472292	51.1992	51.20
* 102 Phenanthrene-d10	188	12.091	12.094	(1.000)	2248728	40.0000	
129 Atrazine	200	11.749	11.754	(0.972)	664208	50.3899	50.39
* 132 Chrysene-d12	240	16.253	16.261	(1.000)	2442467	40.0000	
133 Benzidine	184	13.977	13.982	(0.860)	1920562	49.0456	49.04
137 3,3'-Dichlorobenzidine	252	16.210	16.210	(0.997)	1310484	52.7673	52.77
* 154 Perylene-d12	264	19.009	19.012	(1.000)	2437873	40.0000	

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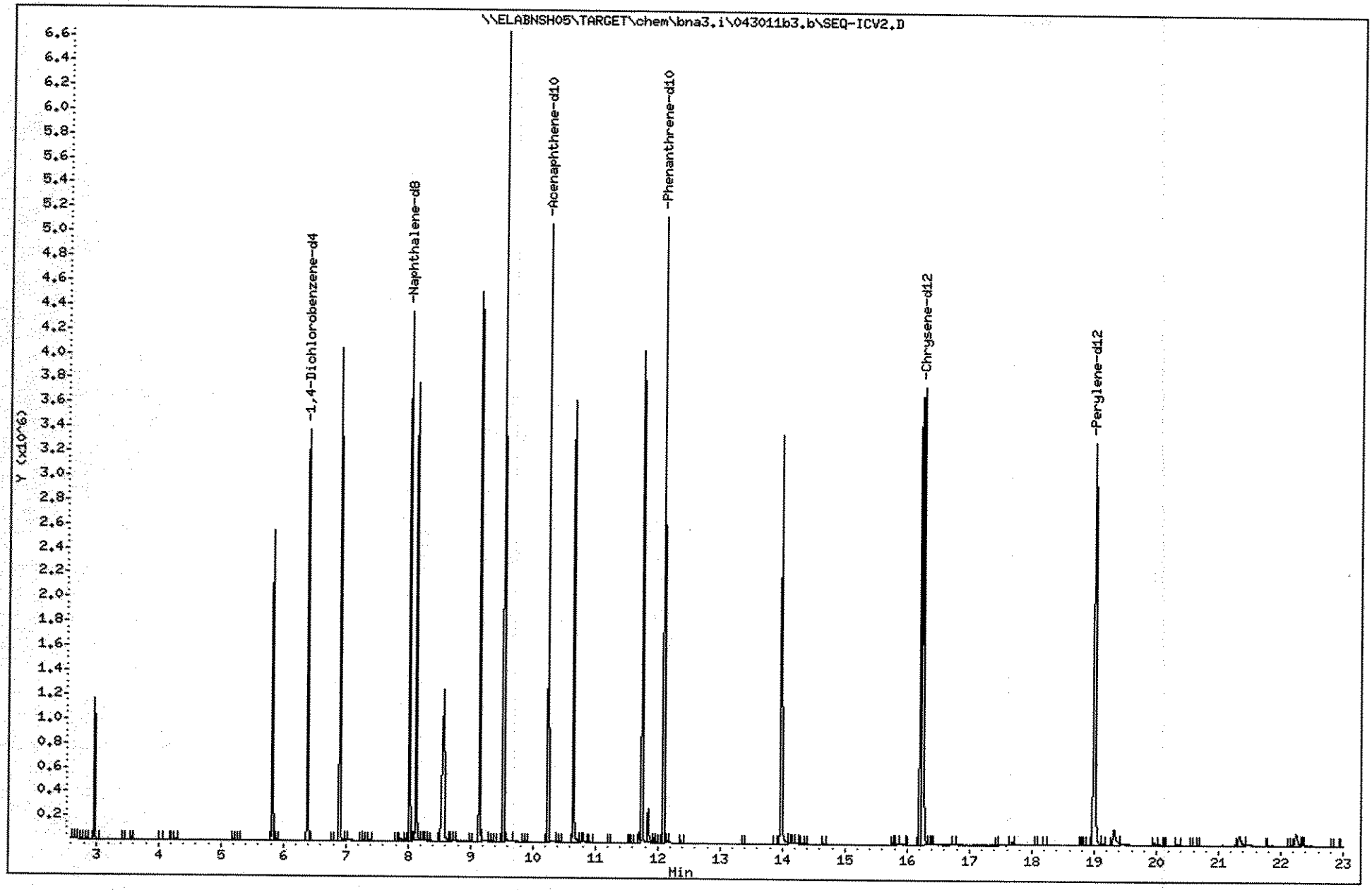
GLQ
5/6/11

Data File: \\ELABNSH05\TARGET\chem\bna3.i\043011b3.b\SEQ-ICV2.D
Date : 30-APR-2011 15:40
Client ID: SEQ-ICV2
Sample Info: ICV-50PPM;;;;;;11A0290

Column phase: fused silica

Instrument: bna3.i

Operator: MEC
Column diameter: 0.25



Data File: \\ELABNSH05\TARGET\chem\bna3.i\043011b3.b\SEQ-ICV5.D
Report Date: 02-May-2011 11:35

Laboratory Name

Data file : \\ELABNSH05\TARGET\chem\bna3.i\043011b3.b\SEQ-ICV5.D
Lab Smp Id: SEQ-ICV3 Client Smp ID: SEQ-ICV3
Inj Date : 30-APR-2011 17:19 MS Autotune Date: 07-SEP-2010 05:33
Operator : MEC Inst ID: bna3.i
Smp Info : ICV-50PPM;;;;;;11D0228
Misc Info : ;0;;;;;ppbnax.sub;
Comment :
Method : \\ELABNSH05\TARGET\chem\bna3.i\043011b3.b\IXBN3.m
Meth Date : 30-Apr-2011 15:33 mcobb Quant Type: ISTD
Cal Date : 30-APR-2011 01:58 Cal File: SEQ-CALG.D
Als bottle: 6
Dil Factor: 1.00000
Integrator: HP RTE Compound Sublist: ppbnax.sub
Target Version: 4.04
Processing Host: TARGET09_VM

Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS ON-COLUMN (ng/ul)	FINAL (ng/ul)
* 1 1,4-Dichlorobenzene-d4	152	6.387	6.389	(1.000)	540287	40.0000	
* 33 Naphthalene-d8	136	8.027	8.029	(1.000)	1948456	40.0000	
* 69 Acenaphthene-d10	164	10.249	10.251	(1.000)	1127668	40.0000	
81 2,4-Dinitrophenol	184	10.329	10.331	(1.008)	323567	61.8928	61.89
* 102 Phenanthrene-d10	188	12.092	12.094	(1.000)	1874898	40.0000	
105 4,6-Dinitro-2-methylphenol	198	11.002	11.004	(0.910)	364279	53.4451	53.44
110 Pentachlorophenol	266	11.852	11.854	(0.980)	427127	56.1430	56.14
* 132 Chrysene-d12	240	16.264	16.261	(1.000)	2034046	40.0000	
* 154 Perylene-d12	264	19.010	19.012	(1.000)	1791296	40.0000	

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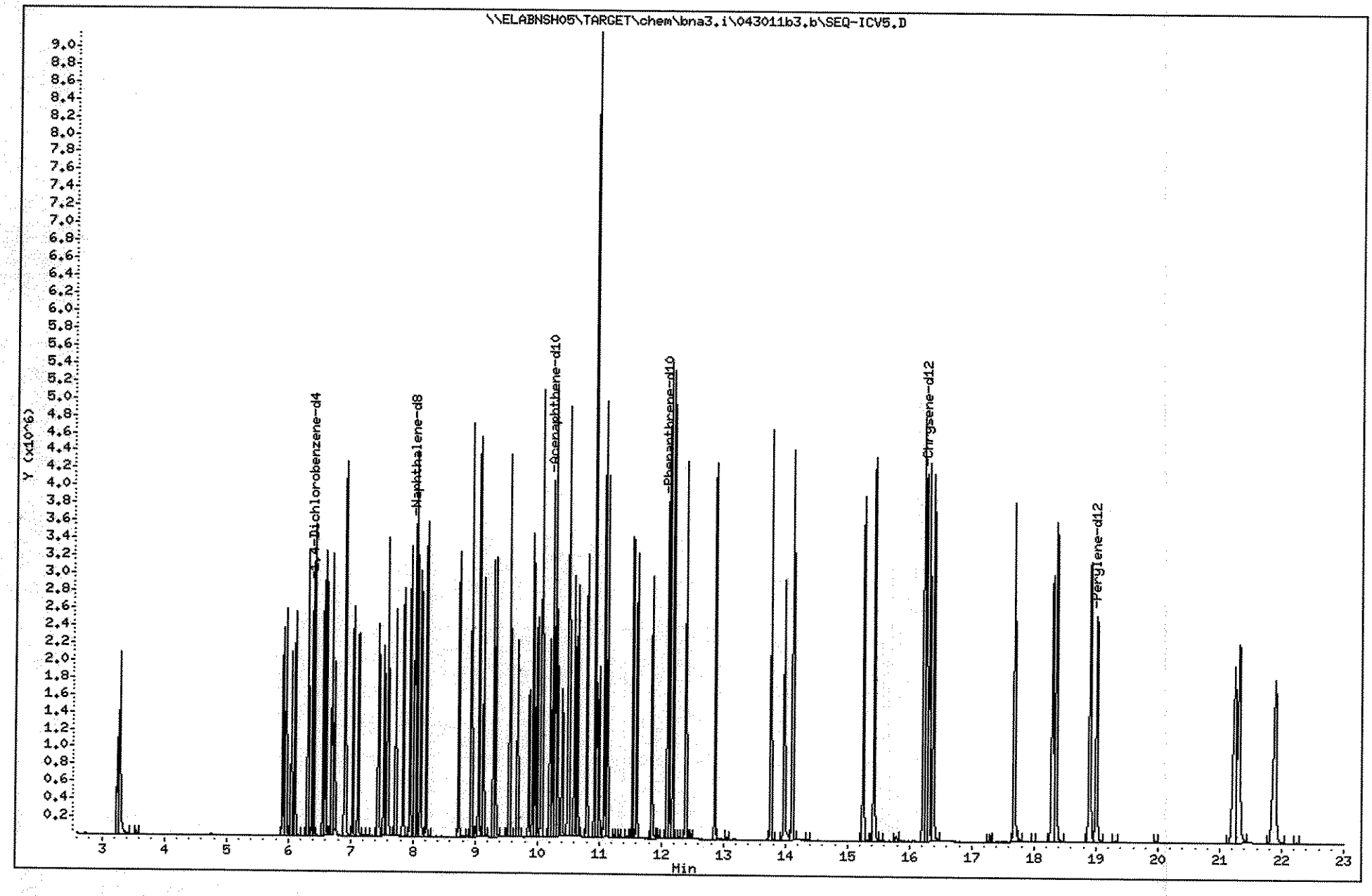
GLQ
5/6/11

Data File: \\ELABNSH05\TARGET\chem\bna3.i\043011b3.b\SEQ-ICV5.D
Date : 30-APR-2011 17:19
Client ID: SEQ-ICV3
Sample Info: ICV-50PPM;;;;;;11D0228

Instrument: bna3.i

Operator: MEC
Column diameter: 0.25

Column phase: fused silica



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1110003

Data File: \\ELABNSH05\TARGET\chem\bna3.i\050211b3.b\SEQ-ICV4.D
Report Date: 02-May-2011 15:06

Laboratory Name

Data file : \\ELABNSH05\TARGET\chem\bna3.i\050211b3.b\SEQ-ICV4.D
Lab Smp Id: SEQ-ICV4 Client Smp ID: SEQ-ICV4
Inj Date : 02-MAY-2011 14:16 MS Autotune Date: 07-SEP-2010 05:33
Operator : MEC Inst ID: bna3.i
Smp Info : ICV50PPM;;;;;;
Misc Info : ;;;;;;cal_2.sub;
Comment :
Method : \\ELABNSH05\TARGET\chem\bna3.i\050211b3.b\IXBN3.m
Meth Date : 30-Apr-2011 15:33 mcobb Quant Type: ISTD
Cal Date : 30-APR-2011 01:58 Cal File: SEQ-CALG.D
Als bottle: 2
Dil Factor: 1.00000
Integrator: HP RTE Compound Sublist: cal_2.sub
Target Version: 4.04
Processing Host: TARGET09_VM

Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS ON-COLUMN (ng/ul)	FINAL (ng/ul)
* 1 1,4-Dichlorobenzene-d4	152	6.385	6.389	(1.000)	570325	40.0000	
32 Benzaldehyde	106	5.830	5.825	(0.913)	732421	50.8548	50.85
* 33 Naphthalene-d8	136	8.020	8.029	(1.000)	2078712	40.0000	
* 69 Acenaphthene-d10	164	10.242	10.251	(1.000)	1185034	40.0000	
* 102 Phenanthrene-d10	188	12.091	12.094	(1.000)	1964853	40.0000	
* 132 Chrysene-d12	240	16.242	16.261	(1.000)	2129370	40.0000	
* 154 Perylene-d12	264	19.003	19.012	(1.000)	2111160	40.0000	

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GLQ
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Sequence Name: C:\HPCHEM\1\SEQUENCE\091011B1.S
Comment: 8270C/8270D/625
Operator: MEC
Data Path: C:\HPCHEM\1\DATA\091011B1.b\
Pre-Seq Cmd:
Post-Seq Cmd:

M
9/14/11
8483

Method Sections To Run
(X) Full Method
( ) Reprocessing Only

On A Barcode Mismatch
(X) Inject Anyway
( ) Don't Inject

Line	Type	Vial	DataFile	Method	Sample Name
1	Tune	1	SEQ-TUN1	DFTPPBN1	DF0910B1;;;;;
2	ICal	2	SEQ-CAL1	IXBN1	CAL5.0PPM;;;;;;
3	ICal	3	SEQ-CAL2	IXBN1	CAL10.0PPM;;;;;;
4	ICal	4	SEQ-CAL3	IXBN1	CAL20.0PPM;;;;;;
5	ICal	5	SEQ-CAL4	IXBN1	CAL40.0PPM;;;;;;
6	ICal	6	SEQ-CAL5	IXBN1	CAL50.0PPM;;;;;;
7	ICal	7	SEQ-CAL6	IXBN1	CAL60.0PPM;;;;;;
8	ICal	8	SEQ-CAL7	IXBN1	CAL80.0PPM;;;;;;
9	ICal	9	SEQ-CAL8	IXBN1	CAL100.0PPM;;;;;;
10	ICal	10	SEQ-CAL9	IXBN1	CAL200.0PPM;;;;;;
11	Sample	11	SEQ-ICV1	IXBN1	ICV50.0PPM;;;;;;
12	Tune	1	SEQ-TUN2	DFTPPBN1	DF0913B1;;;;;
13	Sample	12	SEQ-ICV2	IXBN1	ICV50.0PPM;;;;;;

Data File: \\ELABNSH05\TARGET\chem\bna1.i\091011B1.b\SEQ-TUN1.D

Date : 10-SEP-2011 16:29

Client ID: 50ppm DFTPP

Instrument: bna1.i

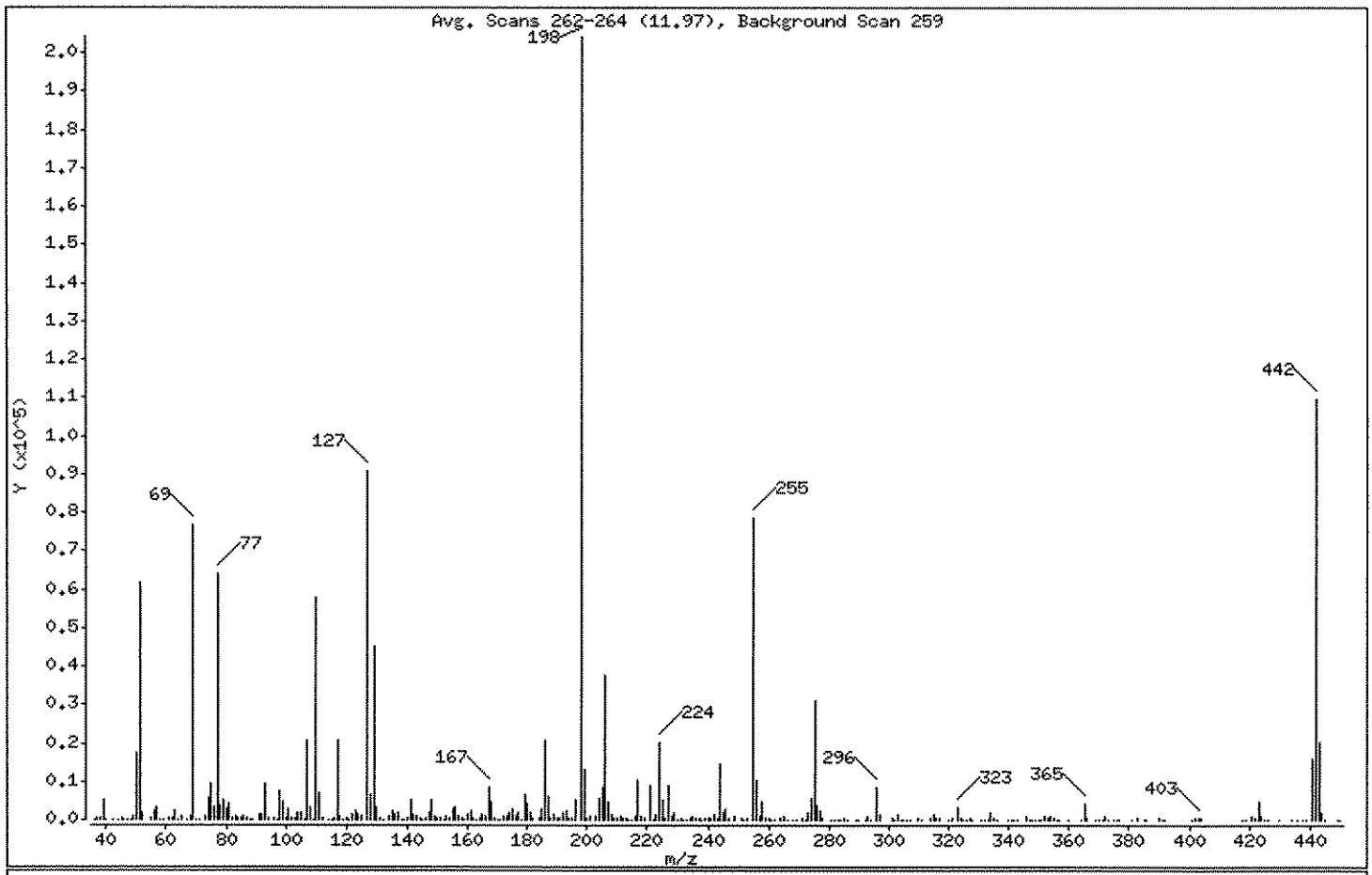
Sample Info: DF0910B1;;;;;

Operator: MEC

Column phase: DB5-MS

Column diameter: 0.25

1 dftpp



m/e	ION ABUNDANCE CRITERIA	% RELATIVE ABUNDANCE
198	Base Peak, 100% relative abundance	100.00
51	30.00 - 60.00% of mass 198	30.19
68	Less than 2.00% of mass 69	0.42 (1.13)
69	Mass 69 relative abundance	37.57
70	Less than 2.00% of mass 69	0.04 (0.10)
127	40.00 - 60.00% of mass 198	44.41
197	Less than 1.00% of mass 198	0.00
199	5.00 - 9.00% of mass 198	6.49
275	10.00 - 30.00% of mass 198	15.28
365	Greater than 1.00% of mass 198	2.02
441	Present, but less than mass 443	7.87
442	Greater than 40.00% of mass 198	53.67
443	17.00 - 23.00% of mass 442	9.93 (18.50)

09/14/11

Ma/1mly

Data File: \\ELABNSH05\TARGET\chem\bna1.i\091011B1.b\SEQ-TUN1.D

Date : 10-SEP-2011 16:29

Client ID: 50ppm DFTPP

Instrument: bna1.i

Sample Info: DF0910B1;;;;;

Operator: MEC

Column phase: DB5-MS

Column diameter: 0.25

Data File: SEQ-TUN1.D
Spectrum: Avg. Scans 262-264 (11.97), Background Scan 259
Location of Maximum: 198.00
Number of points: 320

m/z	Y	m/z	Y	m/z	Y	m/z	Y
36.00	128	128.00	6758	213.00	256	314.00	254
37.00	384	129.00	45320	214.00	183	315.00	1225
38.00	460	130.00	3390	215.00	156	316.00	468
39.00	5294	131.00	521	216.00	833	317.00	238
40.00	34	132.00	120	217.00	10536	320.00	107
42.00	59	134.00	1006	218.00	1165	321.00	423
44.00	89	135.00	2497	219.00	242	323.00	3304
45.00	266	136.00	1572	221.00	8956	324.00	414
46.00	55	137.00	1810	222.00	183	325.00	82
47.00	50	138.00	115	223.00	1388	326.00	113
48.00	182	139.00	29	224.00	20376	327.00	412
49.00	724	140.00	508	225.00	5339	328.00	108
50.00	17280	141.00	5162	226.00	330	331.00	63
51.00	61680	142.00	1602	227.00	9007	332.00	159
52.00	1828	143.00	899	228.00	958	333.00	201
55.00	314	144.00	570	229.00	1835	334.00	1908
56.00	2132	145.00	8	230.00	119	335.00	355
57.00	3121	146.00	611	231.00	289	336.00	60
58.00	36	147.00	1653	232.00	48	340.00	65
59.00	119	148.00	5031	233.00	180	341.00	215
61.00	654	149.00	842	234.00	636	342.00	162
62.00	291	150.00	265	235.00	821	343.00	50
63.00	2250	151.00	658	236.00	301	346.00	787
64.00	116	152.00	179	237.00	547	347.00	55
65.00	1002	153.00	979	238.00	157	348.00	133
67.00	234	154.00	699	239.00	241	349.00	46
68.00	864	155.00	2815	240.00	402	350.00	77
69.00	76760	156.00	3293	241.00	473	351.00	41
70.00	76	157.00	939	242.00	1274	352.00	1123
71.00	117	158.00	548	243.00	605	353.00	609
73.00	952	159.00	180	244.00	14770	354.00	814
74.00	5712	160.00	1586	245.00	2077	355.00	254
75.00	9215	161.00	2385	246.00	2606	356.00	45
76.00	3271	162.00	521	247.00	436	357.00	33
77.00	63824	163.00	211	249.00	751	360.00	50

Data File: \\ELABNSH05\TARGET\chem\bna1.i\091011B1.b\SEQ-TUN1.D

Date : 10-SEP-2011 16:29

Client ID: 50ppm DFTPP

Instrument: bna1.i

Sample Info: DF0910B1;;;;;

Operator: MEC

Column phase: DB5-MS

Column diameter: 0.25

Data File: SEQ-TUN1.D
Spectrum: Avg. Scans 262-264 (11.97), Background Scan 259
Location of Maximum: 198.00
Number of points: 320

m/z	Y	m/z	Y	m/z	Y	m/z	Y
78.00	3758	164.00	256	251.00	286	364.00	44
79.00	5050	165.00	1516	252.00	137	365.00	4126
80.00	2683	166.00	998	253.00	273	366.00	463
81.00	4041	167.00	8423	255.00	78416	369.00	52
82.00	419	168.00	4477	256.00	10288	370.00	76
83.00	978	169.00	682	257.00	930	371.00	158
84.00	269	170.00	201	258.00	4773	372.00	1057
85.00	646	171.00	165	259.00	507	373.00	186
86.00	993	172.00	731	260.00	291	375.00	46
87.00	457	173.00	796	261.00	223	376.00	36
88.00	182	174.00	1754	262.00	44	377.00	44
89.00	93	175.00	2614	264.00	263	381.00	42
91.00	1590	176.00	945	265.00	894	383.00	375
92.00	1478	177.00	1720	266.00	109	385.00	34
93.00	9282	178.00	97	268.00	36	386.00	57
94.00	618	179.00	6372	269.00	57	390.00	268
96.00	447	180.00	4077	271.00	264	391.00	18
97.00	130	181.00	1714	272.00	231	392.00	150
98.00	7478	182.00	393	273.00	2088	401.00	169
99.00	4862	184.00	534	274.00	5666	402.00	543
100.00	685	185.00	2759	275.00	31224	403.00	633
101.00	2811	186.00	20816	276.00	3865	404.00	270
102.00	310	187.00	6313	277.00	2254	418.00	58
103.00	701	188.00	688	278.00	292	419.00	47
104.00	1927	189.00	1571	281.00	208	421.00	713
105.00	2066	190.00	421	282.00	49	422.00	289
106.00	152	191.00	467	283.00	140	423.00	4695
107.00	20776	192.00	1884	284.00	200	424.00	1001
108.00	3443	193.00	2294	285.00	403	425.00	113
109.00	206	194.00	284	286.00	49	426.00	53
110.00	58080	195.00	278	289.00	127	430.00	201
111.00	7076	196.00	5123	290.00	99	434.00	76
112.00	642	198.00	204288	292.00	83	436.00	33
114.00	9	199.00	13265	293.00	721	438.00	33
115.00	160	200.00	631	294.00	180	439.00	38

Data File: \\ELABNSH05\TARGET\chem\bna1.i\091011B1.b\SEQ-TUN1.D

Date : 10-SEP-2011 16:29

Client ID: 50ppm DFTPP

Instrument: bna1.i

Sample Info: DF0910B1;;;;;

Operator: MEC

Column phase: DB5-MS

Column diameter: 0.25

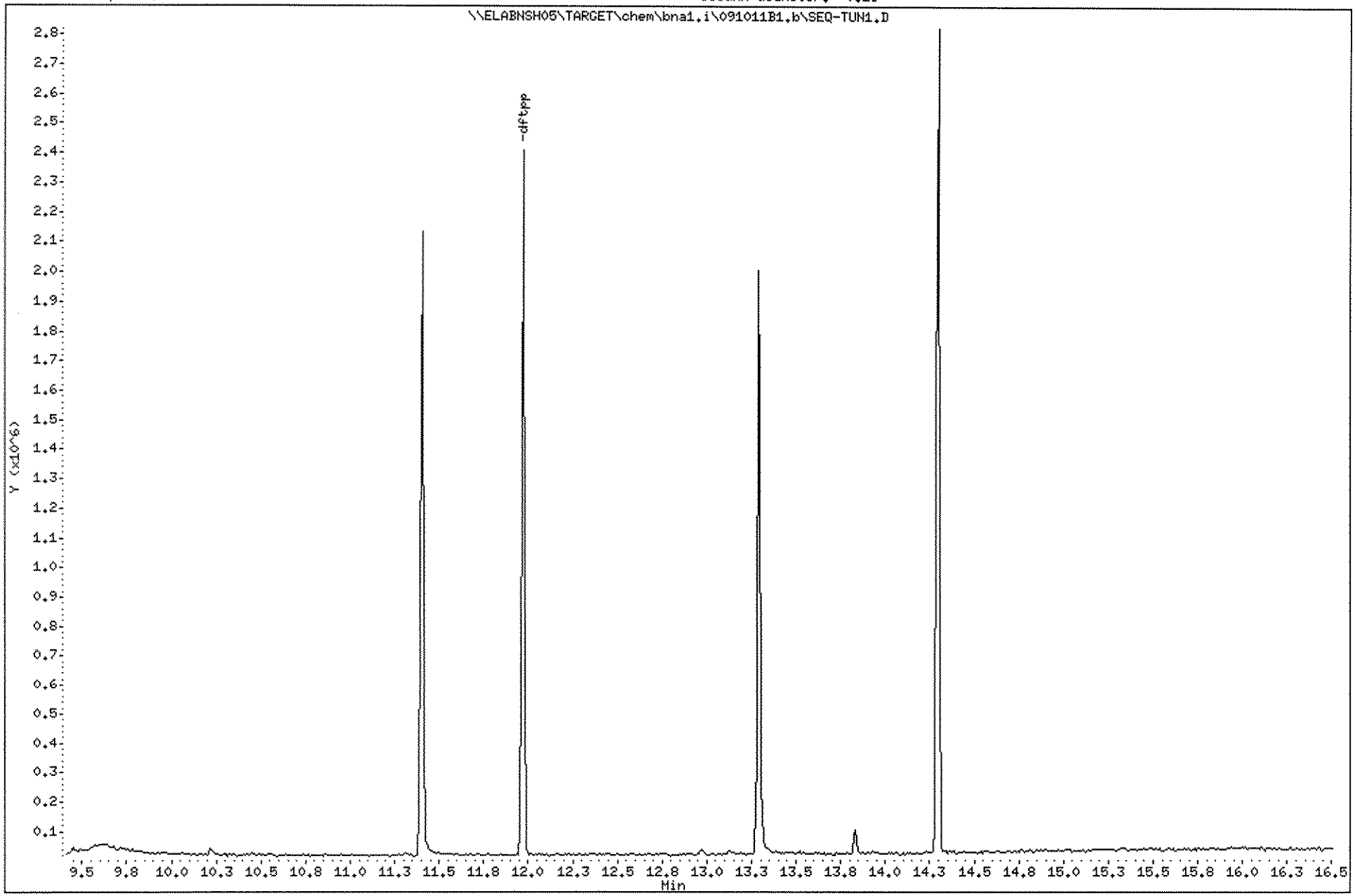
Data File: SEQ-TUN1.D
Spectrum: Avg. Scans 262-264 (11.97), Background Scan 259
Location of Maximum: 198.00
Number of points: 320

m/z	Y	m/z	Y	m/z	Y	m/z	Y
116.00	581	201.00	791	296.00	8489	441.00	16082
117.00	20568	203.00	1097	297.00	1233	442.00	109664
118.00	736	204.00	5510	301.00	277	443.00	20288
119.00	29	205.00	8577	302.00	214	444.00	2049
120.00	516	206.00	37592	303.00	1433	445.00	70
121.00	172	207.00	4588	304.00	195	449.00	46
122.00	1499	208.00	1331	305.00	62	450.00	109
123.00	2437	209.00	238	306.00	40		
124.00	1390	210.00	506	307.00	47		
125.00	1104	211.00	1088	310.00	252		
127.00	90752	212.00	575	311.00	59		

Data File: \\ELABNSH05\TARGET\chem\bna1.i\091011B1.b\SEQ-TUN1.D
Date : 10-SEP-2011 16:29
Client ID: 50ppm DFTPP
Sample Info: DF0910B1;;;;;

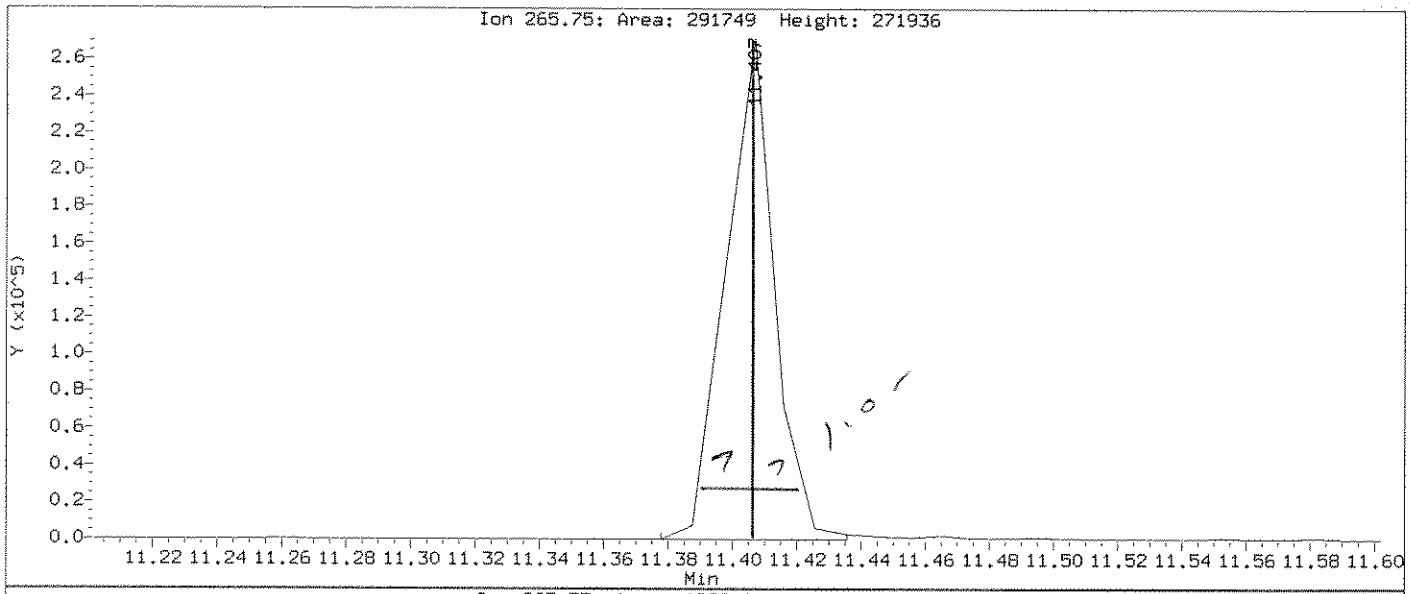
Instrument: bna1.i

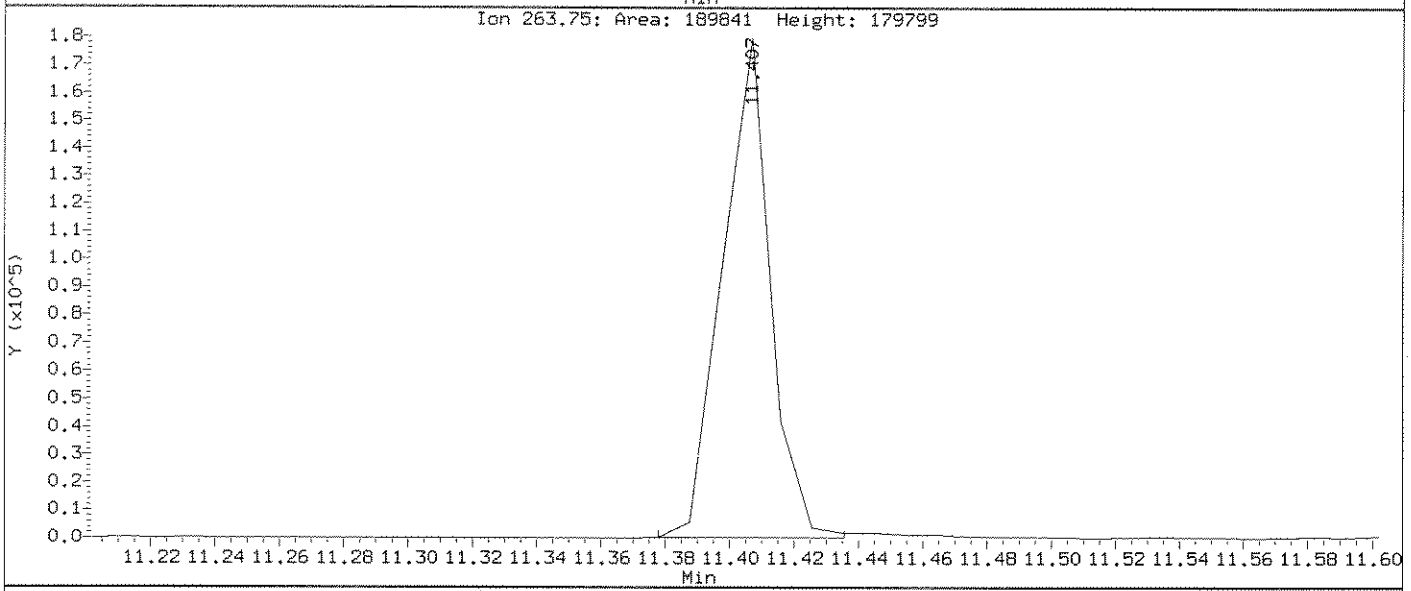
Operator: MEC
Column phase: DB5-MS
Column diameter: 0.25

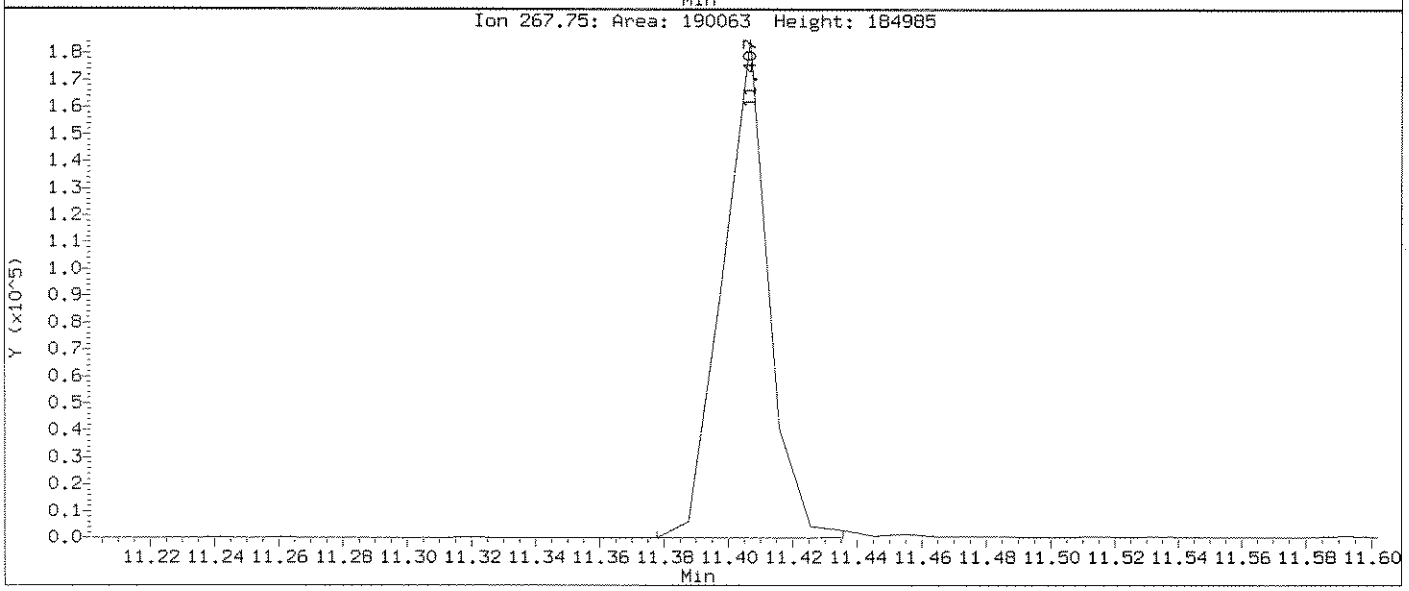


Data File: \\ELABNSH05\TARGET\chem\bna1.i\091011B1.b\SEQ-TUN1ex.D
Injection Date: 10-SEP-2011 16:29
Instrument: bna1.i
Client Sample ID: 50ppm DFTPP

Compound: Pentachlorophenol
CAS Number: 87-86-5

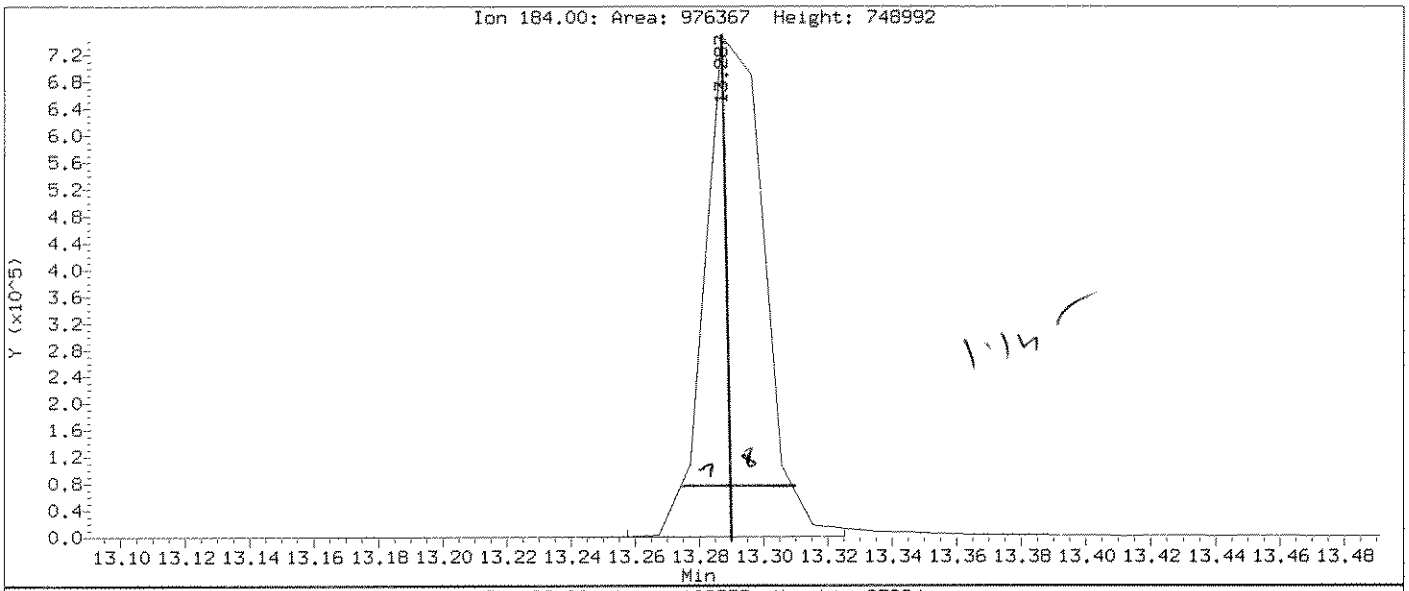


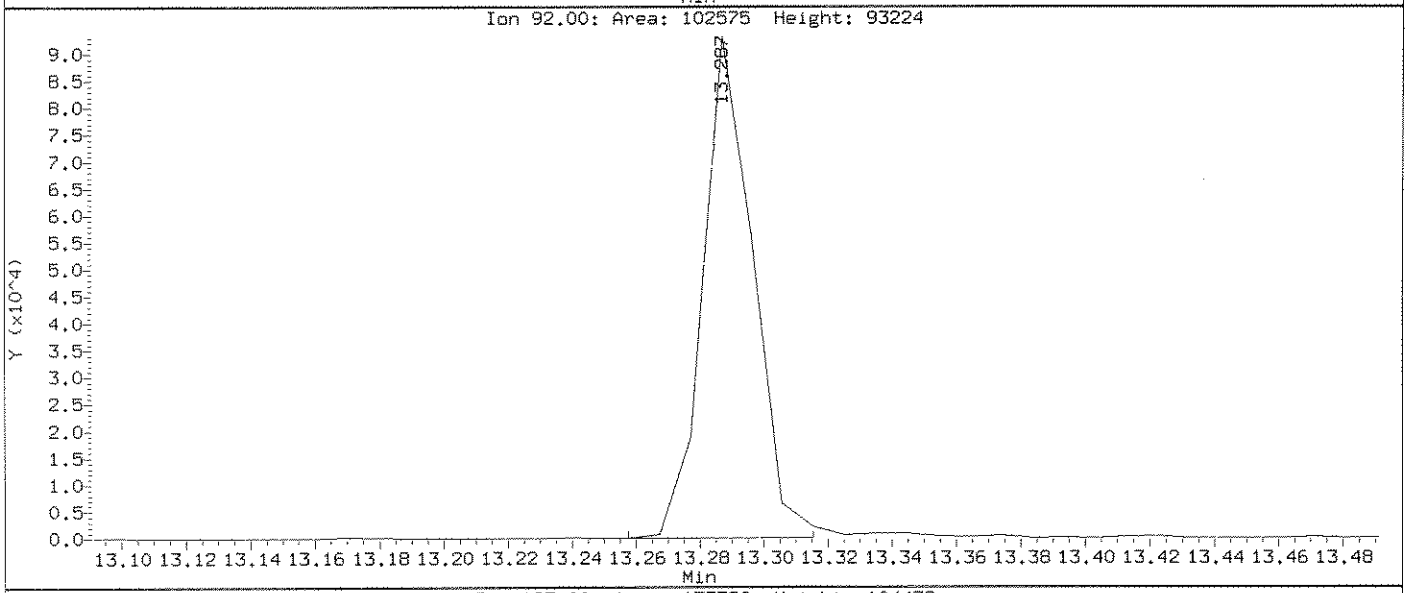


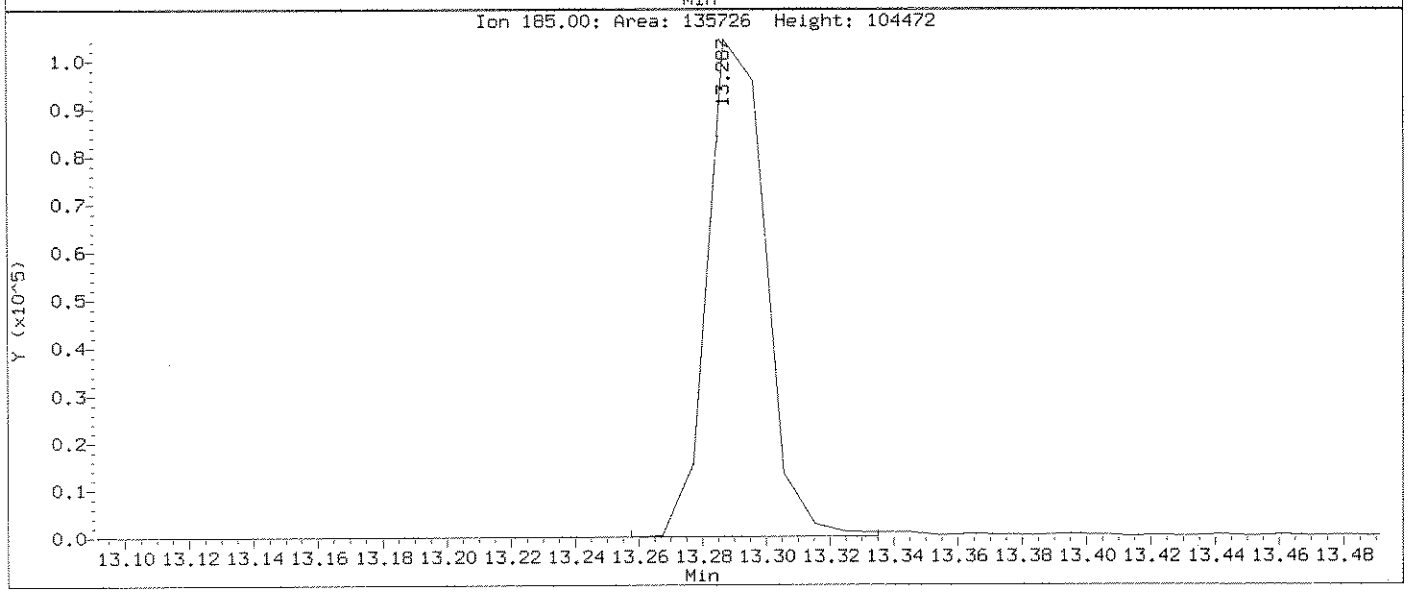


Data File: \\ELABNSH05\TARGET\chem\bna1.i\091011B1.b\SEQ-TUN1ex.D
Injection Date: 10-SEP-2011 16:29
Instrument: bna1.i
Client Sample ID: 50ppm DFTPP

Compound: Benzidine
CAS Number: 92-87-5







Data File: \\ELABNSH05\TARGET\chem\bna1.i\091011B1.b\SEQ-TUN1ex.D
Report Date: 14-Sep-2011 08:03

Laboratory Name

Data file : \\ELABNSH05\TARGET\chem\bna1.i\091011B1.b\SEQ-TUN1ex.D
Lab Smp Id: SEQ-TUN1 Client Smp ID: 50ppm DFTPP
Inj Date : 10-SEP-2011 16:29 MS Autotune Date: 09-SEP-2011 09:38
Operator : MEC Inst ID: bna1.i
Smp Info : DF0910B1;;;;;
Misc Info : ;;;;;;all.sub;
Comment :
Method : \\ELABNSH05\TARGET\chem\bna1.i\091011B1.b\dftppbn1ex.m
Meth Date : 14-Sep-2011 08:02 amonteiro Quant Type: ESTD
Cal Date : Cal File:
Als bottle: 1 QC Sample: DFTPP
Dil Factor: 1.00000
Integrator: HP RTE Compound Sublist: all.sub
Target Version: 4.04
Processing Host: TARGET02_VM

Compounds	QUANT SIG MASS	RT	EXP RT	DLT RT	RESPONSE	CONCENTRATIONS ON-COLUMN (ng/ul)	FINAL (ng/ul)
1 Pentachlorophenol	266	11.406	11.406	0.000	291749		
2 Benzidine	184	13.287	13.287	0.000	976367		
5 4,4'-DDT	235	14.296	14.296	0.000	514802		

DDT breakdown = NO breakdown

Data File: \\ELABNSH05\TARGET\chem\bna1.i\091011B1.b\SEQ-TUN2.D

Date : 13-SEP-2011 15:01

Client ID: 50ppm DFTPP

Instrument: bna1.i

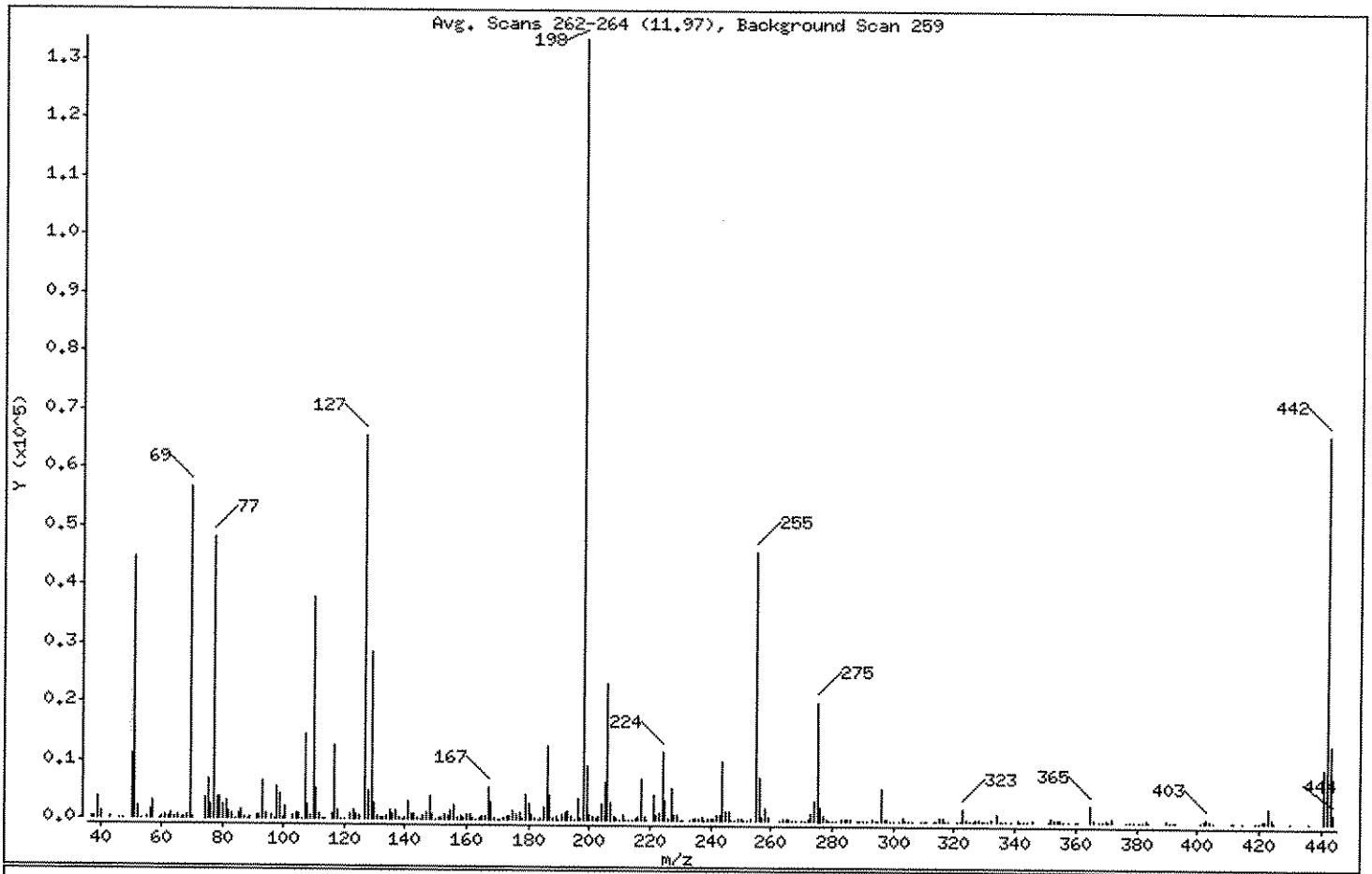
Sample Info: DF0913B1;;;;;

Operator: MEC

Column phase: DB5-MS

Column diameter: 0.25

1 dftpp



m/e	ION ABUNDANCE CRITERIA	% RELATIVE ABUNDANCE
198	Base Peak, 100% relative abundance	100.00
51	30.00 - 60.00% of mass 198	33.35
68	Less than 2.00% of mass 69	0.36 (0.84)
69	Mass 69 relative abundance	42.36
70	Less than 2.00% of mass 69	0.22 (0.51)
127	40.00 - 60.00% of mass 198	49.16
197	Less than 1.00% of mass 198	0.30
199	5.00 - 9.00% of mass 198	6.83
275	10.00 - 30.00% of mass 198	15.20
365	Greater than 1.00% of mass 198	2.11
441	Present, but less than mass 443	6.97
442	Greater than 40.00% of mass 198	49.62
443	17.00 - 23.00% of mass 442	9.80 (19.76)

09/14/11

Ma/14/11

Data File: \\ELABNSH05\TARGET\chem\bna1.i\091011B1.b\SEQ-TUN2.D

Date : 13-SEP-2011 15:01

Client ID: 50ppm DFTPP

Instrument: bna1.i

Sample Info: DF0913B1;;;;;

Operator: MEC

Column phase: DB5-MS

Column diameter: 0.25

Data File: SEQ-TUN2.D
Spectrum: Avg. Scans 262-264 (11.97), Background Scan 259
Location of Maximum: 198.00
Number of points: 321

m/z	Y	m/z	Y	m/z	Y	m/z	Y
37.00	261	135.00	1462	216.00	625	310.00	35
38.00	248	136.00	959	217.00	7167	311.00	57
39.00	3568	137.00	1385	218.00	596	313.00	95
40.00	1269	138.00	272	219.00	134	314.00	43
43.00	199	139.00	122	221.00	4397	315.00	599
46.00	10	140.00	256	222.00	844	316.00	524
47.00	59	141.00	3066	223.00	1289	317.00	138
50.00	10967	142.00	811	224.00	11834	318.00	78
51.00	44552	143.00	850	225.00	3246	321.00	79
52.00	2130	144.00	191	226.00	395	322.00	109
53.00	151	145.00	76	227.00	5388	323.00	2015
55.00	217	146.00	563	228.00	772	324.00	304
56.00	1423	147.00	1267	229.00	1054	325.00	37
57.00	3097	148.00	3946	230.00	117	326.00	45
59.00	46	149.00	858	231.00	70	327.00	350
60.00	156	150.00	127	233.00	83	328.00	198
61.00	620	151.00	362	234.00	308	329.00	45
62.00	355	152.00	159	235.00	334	330.00	70
63.00	1004	153.00	935	236.00	307	331.00	49
64.00	315	154.00	490	237.00	465	332.00	205
65.00	591	155.00	1564	238.00	128	334.00	1123
66.00	71	156.00	2324	239.00	203	335.00	126
67.00	217	157.00	193	240.00	244	336.00	148
68.00	475	158.00	482	241.00	328	337.00	42
69.00	56584	159.00	413	242.00	781	339.00	106
70.00	291	160.00	908	243.00	885	341.00	209
74.00	3762	161.00	976	244.00	10241	342.00	34
75.00	6887	162.00	252	245.00	1650	343.00	47
76.00	2501	163.00	79	246.00	1388	344.00	77
77.00	48000	164.00	318	247.00	150	346.00	249
78.00	3833	165.00	681	248.00	149	351.00	51
79.00	3659	166.00	599	249.00	409	352.00	475
80.00	2586	167.00	5628	250.00	187	353.00	394
81.00	3136	168.00	3475	251.00	143	354.00	214
82.00	1084	169.00	301	252.00	62	355.00	219

Data File: \\ELABNSH05\TARGET\chem\bna1.i\091011B1.b\SEQ-TUN2.D

Date : 13-SEP-2011 15:01

Client ID: 50ppm DFTPP

Instrument: bna1.i

Sample Info: DF0913B1;;;;;

Operator: MEC

Column phase: DB5-MS

Column diameter: 0.25

Data File: SEQ-TUN2.D
Spectrum: Avg. Scans 262-264 (11.97), Background Scan 259
Location of Maximum: 198.00
Number of points: 321

m/z	Y	m/z	Y	m/z	Y	m/z	Y
83.00	899	170.00	66	253.00	418	356.00	58
84.00	27	171.00	144	255.00	45744	358.00	140
85.00	789	172.00	247	256.00	7454	360.00	111
86.00	1396	173.00	720	257.00	516	361.00	79
87.00	278	174.00	723	258.00	2291	365.00	2818
88.00	59	175.00	1583	259.00	651	366.00	245
89.00	199	176.00	1010	263.00	131	368.00	54
91.00	743	177.00	1283	264.00	173	369.00	56
92.00	626	178.00	265	265.00	295	370.00	211
93.00	6557	179.00	4318	266.00	196	371.00	67
94.00	937	180.00	2889	267.00	107	372.00	681
96.00	619	181.00	1060	268.00	144	377.00	63
97.00	116	182.00	307	270.00	141	378.00	57
98.00	5577	183.00	34	271.00	90	379.00	44
99.00	4193	184.00	437	272.00	332	381.00	55
100.00	403	185.00	2091	273.00	1345	382.00	110
101.00	2066	186.00	12573	274.00	3488	383.00	241
103.00	592	187.00	4397	275.00	20296	384.00	132
104.00	1006	188.00	429	276.00	2521	390.00	242
105.00	1049	189.00	649	277.00	978	391.00	40
106.00	126	190.00	116	278.00	341	392.00	101
107.00	14613	191.00	861	279.00	37	393.00	49
108.00	2350	192.00	1297	280.00	63	401.00	91
109.00	511	193.00	1586	281.00	47	402.00	410
110.00	37816	194.00	537	283.00	233	403.00	565
111.00	5379	195.00	89	284.00	164	404.00	155
112.00	784	196.00	3729	285.00	361	405.00	38
113.00	36	197.00	397	286.00	154	411.00	36
114.00	120	198.00	133568	288.00	67	412.00	80
116.00	895	199.00	9127	289.00	119	415.00	35
117.00	12708	200.00	790	290.00	124	419.00	47
118.00	1547	201.00	468	291.00	51	420.00	133
119.00	114	202.00	250	293.00	309	421.00	289
120.00	97	203.00	558	294.00	113	422.00	369
122.00	1038	204.00	2882	295.00	61	423.00	2370

Data File: \\ELABNSH05\TARGET\chem\bna1.i\091011B1.b\SEQ-TUN2.D

Date : 13-SEP-2011 15:01

Client ID: 50ppm DFTPP

Instrument: bna1.i

Sample Info: DF0913B1;;;;;

Operator: MEC

Column phase: DB5-MS

Column diameter: 0.25

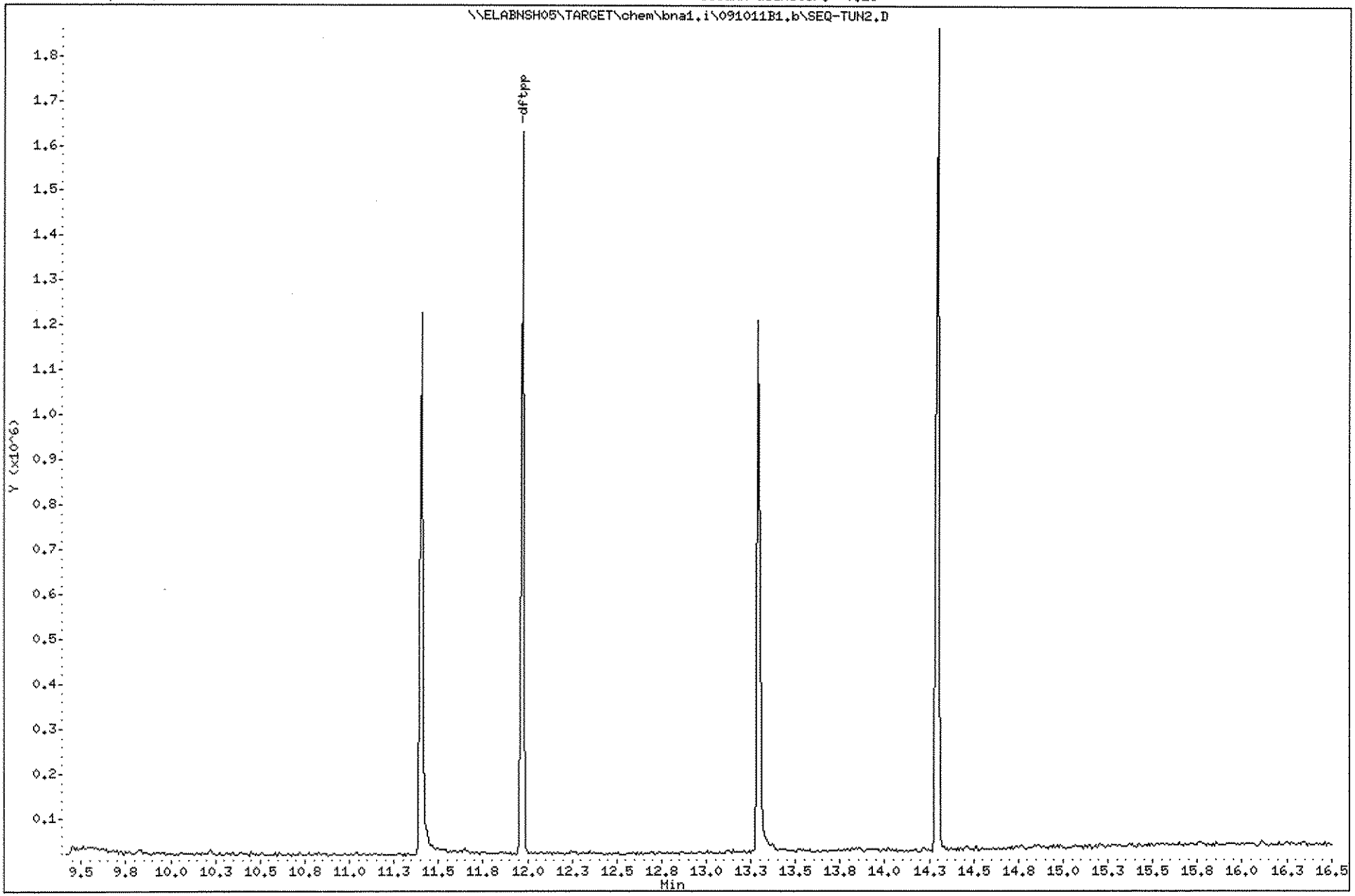
Data File: SEQ-TUN2.D
Spectrum: Avg. Scans 262-264 (11.97), Background Scan 259
Location of Maximum: 198.00
Number of points: 321

m/z	Y	m/z	Y	m/z	Y	m/z	Y
123.00	1628	205.00	6602	296.00	5606	424.00	521
124.00	982	206.00	23272	297.00	447	425.00	51
125.00	742	207.00	3044	298.00	245	430.00	44
127.00	65664	208.00	710	299.00	46	436.00	46
128.00	4983	209.00	213	300.00	36	441.00	9316
129.00	28664	210.00	124	302.00	69	442.00	66280
130.00	2808	211.00	1076	303.00	540	443.00	13096
131.00	595	212.00	123	304.00	111	444.00	1461
132.00	156	213.00	50	305.00	44		
133.00	277	214.00	151	306.00	40		
134.00	661	215.00	391	309.00	81		

Data File: \\ELABNSH05\TARGET\chem\bna1.i\091011B1.b\SEQ-TUN2.D
Date : 13-SEP-2011 15:01
Client ID: 50ppm DFTPP
Sample Info: DF0913B1;;;;;

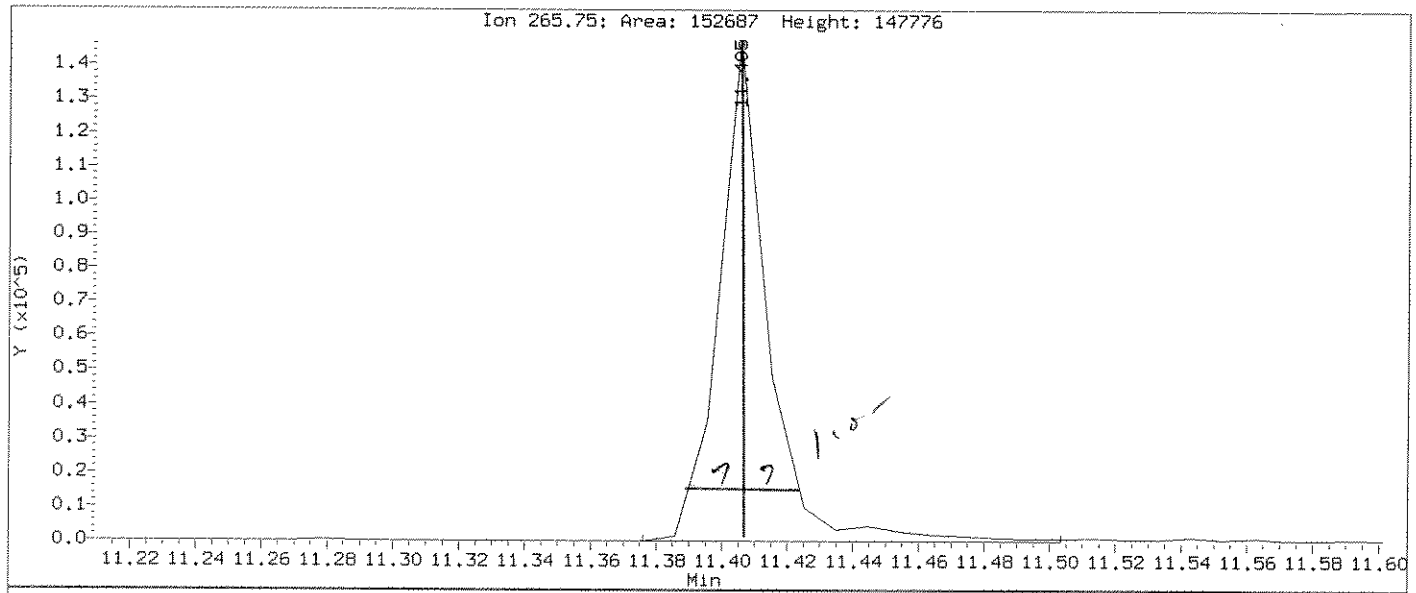
Instrument: bna1.i

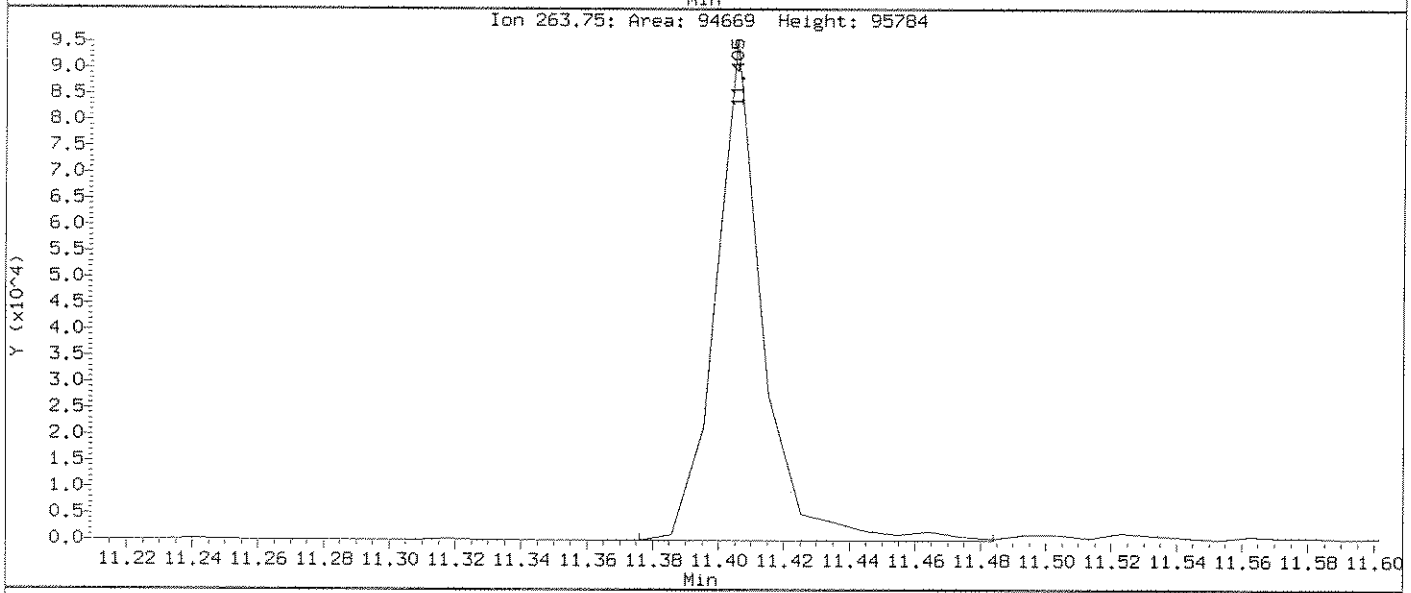
Operator: MEC
Column phase: DB5-MS
Column diameter: 0.25

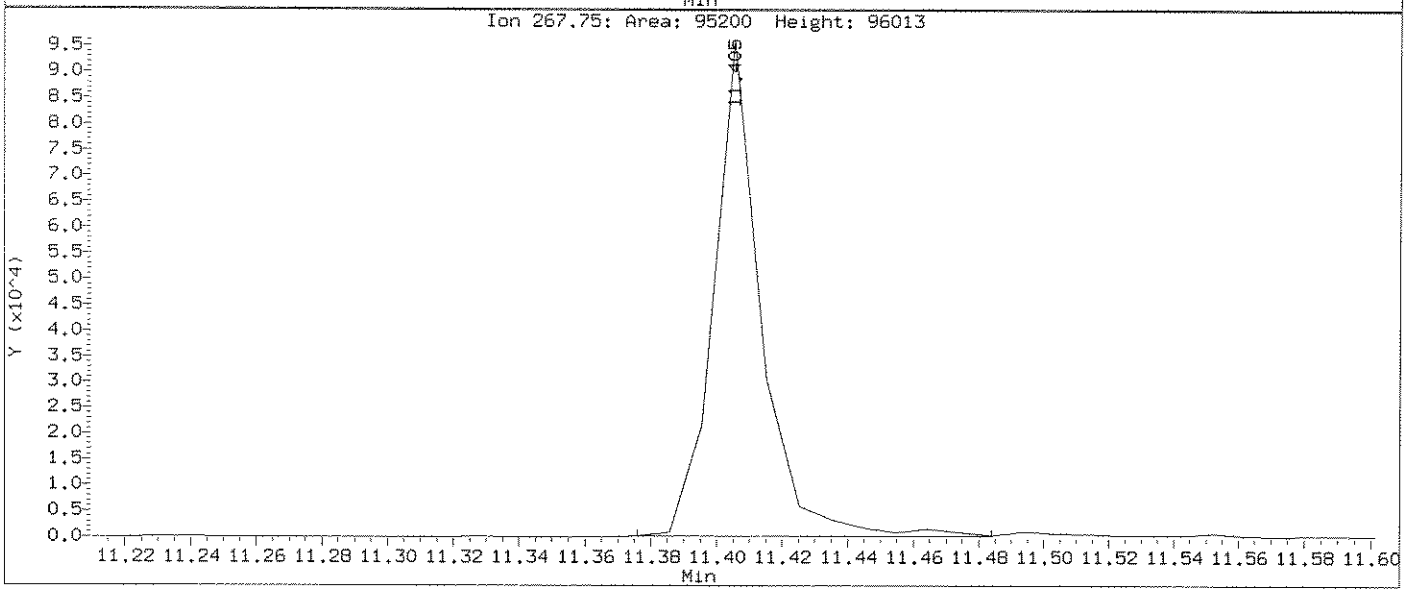


Data File: \\ELABNSH05\TARGET\chem\bna1.i\091011B1.b\SEQ-TUN2ex.D
Injection Date: 13-SEP-2011 15:01
Instrument: bna1.i
Client Sample ID: 50ppm DFTPP

Compound: Pentachlorophenol
CAS Number: 87-86-5

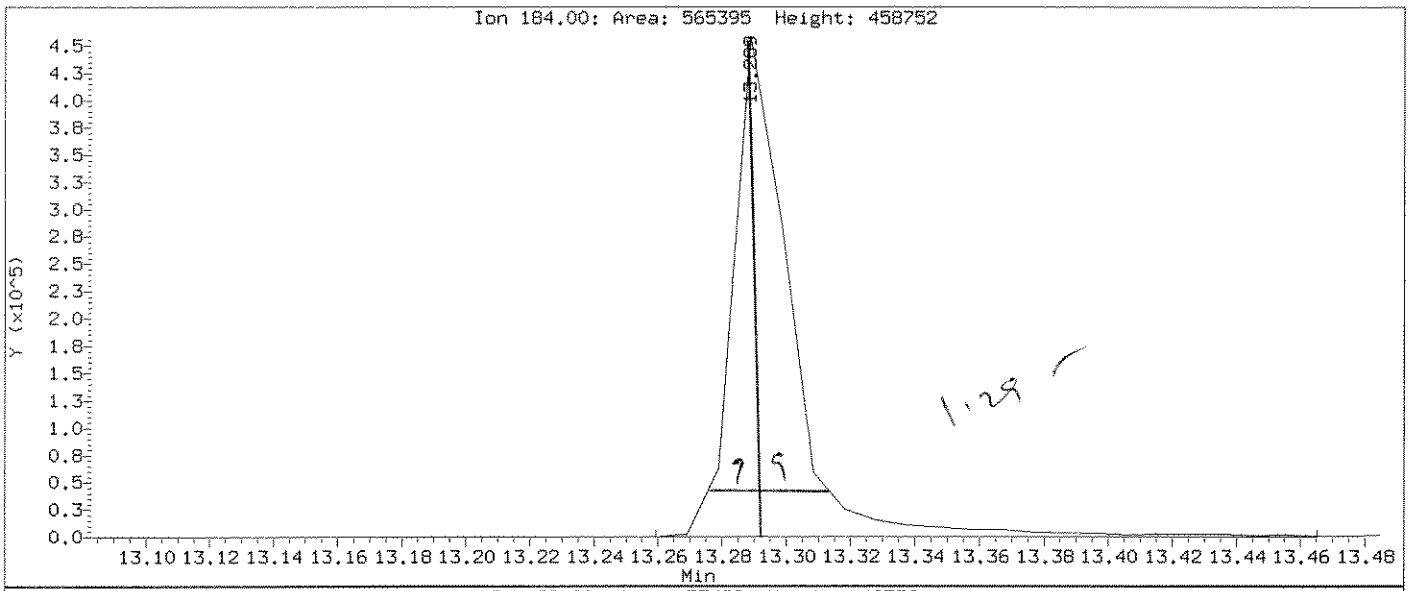


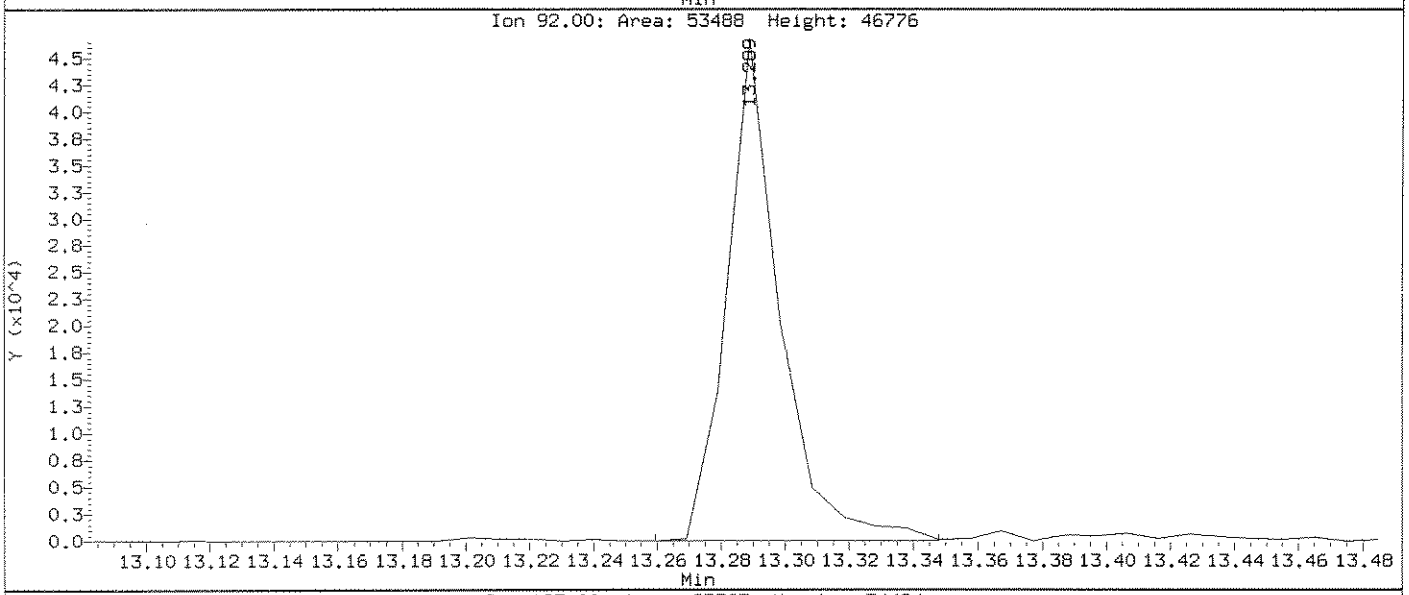


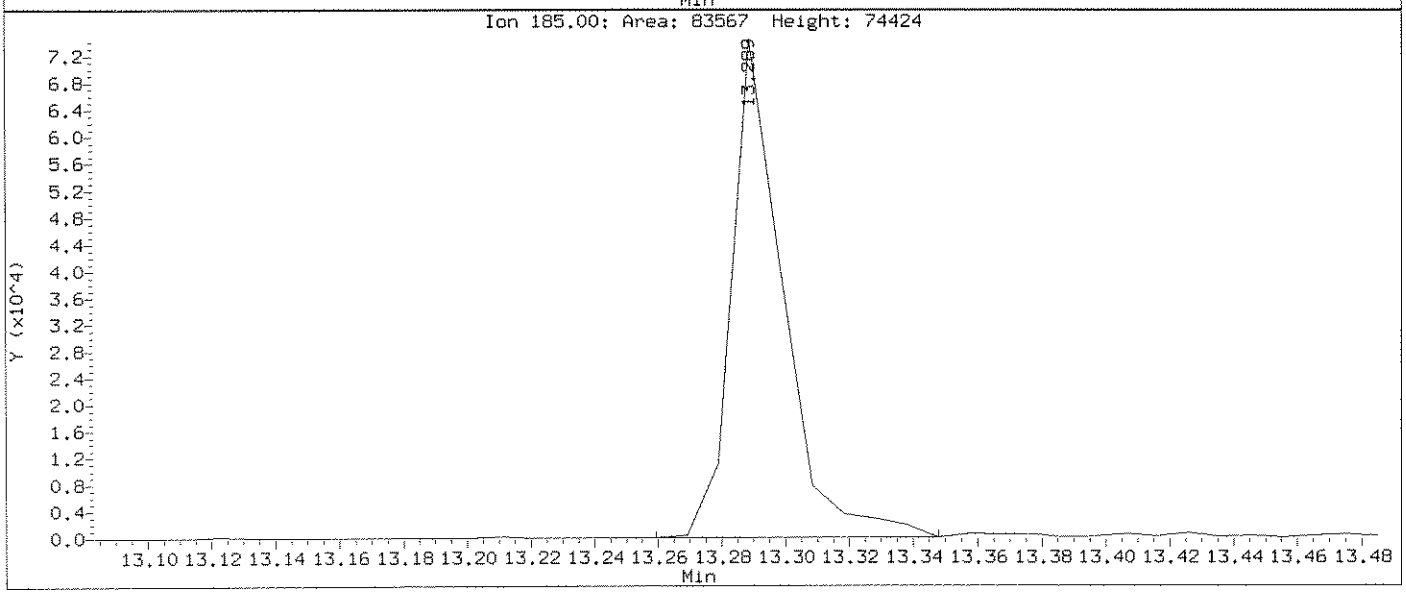


Data File: \\ELABNSHO5\TARGET\chem\bna1.i\091011B1.b\SEQ-TUN2ex.D
Injection Date: 13-SEP-2011 15:01
Instrument: bna1.i
Client Sample ID: 50ppm DFTPP

Compound: Benzidine
CAS Number: 92-87-5







Data File: \\ELABNSH05\TARGET\chem\bna1.i\091011B1.b\SEQ-TUN2ex.D
Report Date: 14-Sep-2011 08:04

Laboratory Name

Data file : \\ELABNSH05\TARGET\chem\bna1.i\091011B1.b\SEQ-TUN2ex.D
Lab Smp Id: SEQ-TUN2 Client Smp ID: 50ppm DFTPP
Inj Date : 13-SEP-2011 15:01 MS Autotune Date: 09-SEP-2011 09:38
Operator : MEC Inst ID: bna1.i
Smp Info : DF0913B1;;;;;
Misc Info : ;;;;;;all.sub;
Comment :
Method : \\ELABNSH05\TARGET\chem\bna1.i\091011B1.b\dftppbn1ex.m
Meth Date : 14-Sep-2011 08:02 amonteiro Quant Type: ESTD
Cal Date : Cal File:
Als bottle: 1 QC Sample: DFTPP
Dil Factor: 1.00000
Integrator: HP RTE Compound Sublist: all.sub
Target Version: 4.04
Processing Host: TARGET02_VM

Compounds	QUANT SIG MASS	RT	EXP RT	DLT RT	RESPONSE	CONCENTRATIONS ON-COLUMN (ng/ul)	CONCENTRATIONS FINAL (ng/ul)
1 Pentachlorophenol	266	11.405	11.406	-0.001	152687		
2 Benzidine	184	13.288	13.287	0.001	565395		
5 4,4'-DDT	235	14.294	14.296	-0.002	308095		

DDT breakdown no breakdown

Data File: \\ELABNSH05\TARGET\chem\bna1.i\091011B1.b\SEQ-CAL1.D
Report Date: 14-Sep-2011 06:40

Laboratory Name

Data file : \\ELABNSH05\TARGET\chem\bna1.i\091011B1.b\SEQ-CAL1.D
Lab Smp Id: SEQ-CAL1 Client Smp ID: CAL5.0PPM
Inj Date : 10-SEP-2011 16:55 MS Autotune Date: 09-SEP-2011 09:38
Operator : MEC Inst ID: bna1.i
Smp Info : CAL5.0PPM;;;;;;
Misc Info : ;1;;;1;;ppbnax.sub;
Comment :
Method : \\ELABNSH05\TARGET\chem\bna1.i\091011B1.b\IXBN1.m
Meth Date : 14-Sep-2011 06:40 amonteiro Quant Type: ISTD
Cal Date : 10-SEP-2011 16:55 Cal File: SEQ-CAL1.D
Als bottle: 2 Calibration Sample, Level: 1
Dil Factor: 1.00000
Integrator: HP RTE Compound Sublist: ppbnax.sub
Target Version: 4.04
Processing Host: TARGET02_VM

MG 9/14/11

Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	AMOUNTS CAL-AMT (ng/ul)	AMOUNTS ON-COL (ng/ul)
* 1 1,4-Dichlorobenzene-d4	152	6.968	6.968	(1.000)	569249	40.0000	
$ 2 2-Fluorophenol	112	5.300	5.300	(0.761)	105478	5.00000	5.433
$ 3 Phenol-d6	99	6.450	6.450	(0.926)	119474	5.00000	5.310
4 Pyridine	79	3.875	3.875	(0.556)	86947	5.00000	5.031
5 1,4-Dioxane	88	3.504	3.504	(0.503)	41061	5.00000	5.357
6 N-Nitroso-di-methylamine	42	3.816	3.816	(0.548)	37628	5.00000	4.440
7 Aniline	93	6.538	6.538	(0.938)	122738	5.00000	5.130
10 Phenol	94	6.470	6.470	(0.928)	101949	5.00000	4.864
11 bis(2-Chloroethyl)ether	93	6.617	6.617	(0.950)	90116	5.00000	4.931
12 2-Chlorophenol	128	6.685	6.685	(0.959)	107808	5.00000	5.160
13 1,3-Dichlorobenzene	146	6.890	6.890	(0.989)	120089	5.00000	5.312
14 1,4-Dichlorobenzene	146	6.988	6.988	(1.003)	118728	5.00000	5.279
15 Benzyl alcohol	108	7.125	7.125	(1.022)	54031	5.00000	4.837
16 1,2-Dichlorobenzene	146	7.183	7.183	(1.031)	114630	5.00000	5.137
17 2-Methylphenol	108	7.262	7.262	(1.042)	73775	5.00000	4.671
18 2,2'-Oxybis-1-chloropropane	45	7.310	7.310	(1.049)	128878	5.00000	5.073
19 3-Methylphenol	108	7.457	7.457	(1.070)	83579	5.00000	5.551
20 4-Methylphenol	108	7.457	7.457	(1.070)	83579	5.00000	5.551
196 3-Methylphenol/4-Methylphenol	108	7.457	7.457	(1.070)	83579	5.00000	5.551
21 N-Nitroso-di-n-propylamine	70	7.477	7.477	(1.073)	47149	5.00000	5.267
22 Hexachloroethane	117	7.613	7.613	(1.093)	53534	5.00000	5.201
32 Benzaldehyde	106	6.411	6.411	(0.920)	60653	5.00000	5.278
* 33 Naphthalene-d8	136	8.599	8.599	(1.000)	1798663	40.0000	
$ 34 Nitrobenzene-d5	82	7.672	7.672	(0.892)	70195	5.00000	4.981
35 Nitrobenzene	77	7.701	7.701	(0.896)	68160	5.00000	5.224
39 Isophorone	82	8.004	8.004	(0.931)	138408	5.00000	5.371

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Data File: \\ELABNSH05\TARGET\chem\bna1.i\091011B1.b\SEQ-CAL1.D
Report Date: 14-Sep-2011 06:40

Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	AMOUNTS CAL-AMT (ng/ul)	AMOUNTS ON-COL (ng/ul)
40 2-Nitrophenol	139	8.111	8.111	(0.943)	51603	5.00000	4.955
42 2,4-Dimethylphenol	107	8.151	8.151	(0.948)	78187	5.00000	5.366
43 Benzoic acid	105	8.209	8.209	(0.955)	36205	5.00000	7.301
44 bis(2-Chloroethoxy)methane	93	8.287	8.287	(0.964)	103040	5.00000	5.630
47 2,4-Dichlorophenol	162	8.405	8.405	(0.977)	80379	5.00000	5.640
62 2,6-Dichlorophenol	162	8.697	8.697	(1.011)	74311	5.00000	5.526
50 1,2,4-Trichlorobenzene	180	8.531	8.531	(0.992)	86270	5.00000	6.129
51 Naphthalene	128	8.629	8.629	(1.003)	298743	5.00000	6.058
52 4-Chloroaniline	127	8.687	8.687	(1.010)	114341	5.00000	5.969
53 Hexachlorobutadiene	225	8.783	8.783	(1.021)	48330	5.00000	5.495
54 4-Chloro-3-methylphenol	107	9.291	9.291	(1.080)	57920	5.00000	4.965
55 2-Methylnaphthalene	141	9.506	9.506	(1.105)	122162	5.00000	5.525
56 1-Methylnaphthalene	141	9.634	9.634	(1.120)	114252	5.00000	5.454
57 Acetophenone	105	7.477	7.477	(1.073)	125094	5.00000	5.371
67 1,2,4,5-Tetrachlorobenzene	216	9.712	9.712	(1.129)	63018	5.00000	5.108
68 Caprolactam	113	9.106	9.106	(1.059)	23718	5.00000	4.674(M)
* 69 Acenaphthene-d10	164	10.817	10.817	(1.000)	902513	40.0000	
70 Hexachlorocyclopentadiene	237	9.702	9.702	(0.897)	33240	5.00000	4.179
71 2,4,6-Trichlorophenol	196	9.858	9.858	(0.911)	40344	5.00000	4.389
72 2,4,5-Trichlorophenol	196	9.897	9.897	(0.915)	42186	5.00000	4.545
73 2-Chloronaphthalene	162	10.122	10.122	(0.936)	149749	5.00000	5.298
$ 74 2-Fluorobiphenyl	172	9.966	9.966	(0.921)	166287	5.00000	5.522
75 2-Nitroaniline	65	10.240	10.240	(0.947)	27598	5.00000	4.392
76 Dimethylphthalate	163	10.464	10.464	(0.967)	168227	5.00000	5.296
77 Acenaphthylene	152	10.641	10.641	(0.984)	194395	5.00000	4.750
78 2,6-Dinitrotoluene	165	10.543	10.543	(0.975)	43915	5.00000	5.077
79 3-Nitroaniline	138	10.748	10.748	(0.994)	47659	5.00000	4.605
80 Acenaphthene	153	10.855	10.855	(1.004)	141415	5.00000	5.137
81 2,4-Dinitrophenol	184	10.875	10.875	(1.005)	12510	5.00000	5.650(M)
83 4-Nitrophenol	65	10.934	10.934	(1.011)	15759	5.00000	4.426
84 Dibenzofuran	168	11.061	11.061	(1.023)	186658	5.00000	5.349
85 2,4-Dinitrotoluene	165	11.041	11.041	(1.021)	49584	5.00000	4.723
86 Diethylphthalate	149	11.334	11.334	(1.048)	162785	5.00000	4.927
87 4-Chlorophenyl-phenylether	204	11.491	11.491	(1.062)	54658	5.00000	4.724
88 Fluorene	166	11.491	11.491	(1.062)	123465	5.00000	4.662
89 4-Nitroaniline	138	11.500	11.500	(1.063)	38756	5.00000	3.954
96 2,3,4,6-Tetrachlorophenol	232	11.159	11.159	(1.032)	37319	5.00000	4.892
100 1,1'-Biphenyl	154	10.093	10.093	(0.933)	171495	5.00000	5.118
* 102 Phenanthrene-d10	188	12.654	12.654	(1.000)	1376862	40.0000	
103 1,2-Diphenylhydrazine	77	11.677	11.677	(0.923)	120986	5.00000	4.674
104 Carbazole	167	12.947	12.947	(1.023)	177336	5.00000	4.916
105 4,6-Dinitro-2-methylphenol	198	11.540	11.540	(0.912)	18534	5.00000	6.108
106 N-Nitrosodiphenylamine	169	11.628	11.628	(0.919)	105604	5.00000	4.776
$ 107 2,4,6-Tribromophenol	330	11.784	11.784	(0.931)	24173	5.00000	4.595
108 4-Bromophenyl-phenylether	248	12.087	12.087	(0.955)	35823	5.00000	4.754
109 Hexachlorobenzene	284	12.165	12.165	(0.961)	43492	5.00000	4.894
110 Pentachlorophenol	266	12.400	12.400	(0.980)	28656	5.00000	4.456

Data File: \\ELABNSH05\TARGET\chem\bna1.i\091011B1.b\SEQ-CAL1.D
Report Date: 14-Sep-2011 06:40

Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	AMOUNTS CAL-AMT (ng/ul)	AMOUNTS ON-COL (ng/ul)
111 Phenanthrene	178	12.682	12.682	(1.002)	202852	5.00000	5.560
112 Anthracene	178	12.741	12.741	(1.007)	177923	5.00000	4.873
115 Di-n-butylphthalate	149	13.405	13.405	(1.059)	247348	5.00000	4.673
116 Fluoranthene	202	14.343	14.343	(1.133)	179515	5.00000	5.155
129 Atrazine	200	12.282	12.282	(0.971)	34910	5.00000	5.030
* 132 Chrysene-d12	240	16.842	16.842	(1.000)	1019604	40.0000	
133 Benzidine	184	14.548	14.548	(0.864)	54018	5.00000	4.175
134 Pyrene	202	14.695	14.695	(0.873)	181679	5.00000	4.906
$ 135 Terphenyl-d14	244	14.958	14.958	(0.888)	88263	5.00000	4.280
136 Butylbenzylphthalate	149	15.817	15.817	(0.939)	106150	5.00000	4.249
137 3,3'-Dichlorobenzidine	252	16.785	16.785	(0.997)	35252	5.00000	3.781
138 Benzo(a)anthracene	228	16.824	16.824	(0.999)	132899	5.00000	4.304
139 Chrysene	228	16.890	16.890	(1.003)	147556	5.00000	4.952
140 Bis(2-ethylhexyl)phthalate	149	16.930	16.930	(1.005)	140330	5.00000	4.041
* 154 Perylene-d12	264	19.590	19.590	(1.000)	885148	40.0000	
155 Di-n-octylphthalate	149	18.218	18.218	(0.930)	206490	5.00000	6.659
156 Benzo(b)fluoranthene	252	18.865	18.865	(0.963)	113926	5.00000	4.300
157 Benzo(k)fluoranthene	252	18.924	18.924	(0.966)	121080	5.00000	4.488
158 Benzo(a)pyrene	252	19.473	19.473	(0.994)	101562	5.00000	4.243
159 Indeno(1,2,3-cd)pyrene	276	21.867	21.867	(1.116)	66269	5.00000	3.850
160 Dibenz(a,h)anthracene	278	21.936	21.936	(1.120)	73450	5.00000	4.258
161 Benzo(g,h,i)perylene	276	22.533	22.533	(1.150)	73553	5.00000	4.110

QC Flag Legend

M - Compound response manually integrated.

Data File: \\ELABNSHO5\TARGET\chem\bna1.i\091011B1.b\SEQ-CAL1.D
Date : 10-SEP-2011 16:55
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Sample Info: CAL5.0PPM;;;;;;
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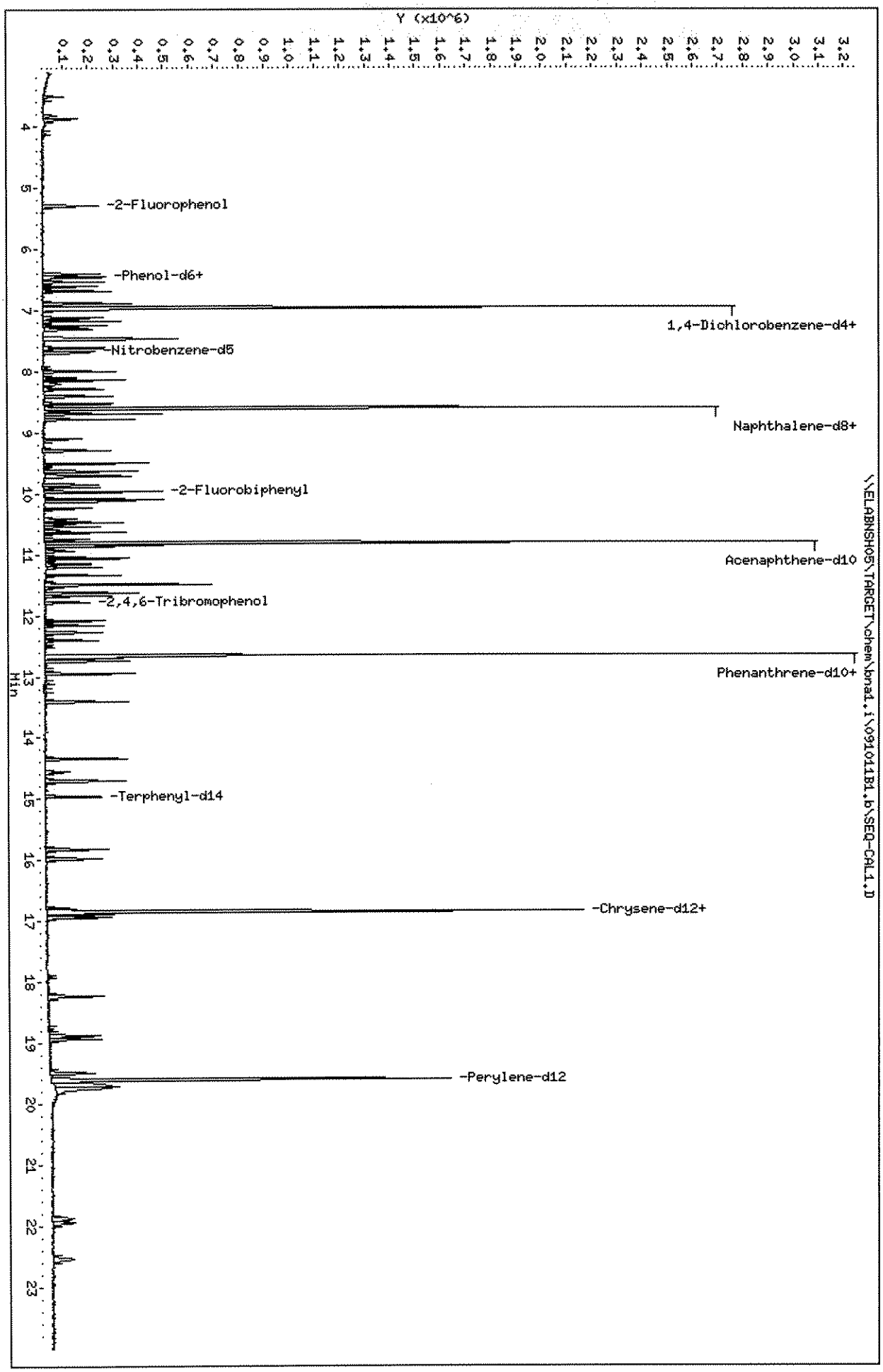
Instrument: bna1.i
Operator: MEC
Column diameter: 0.25



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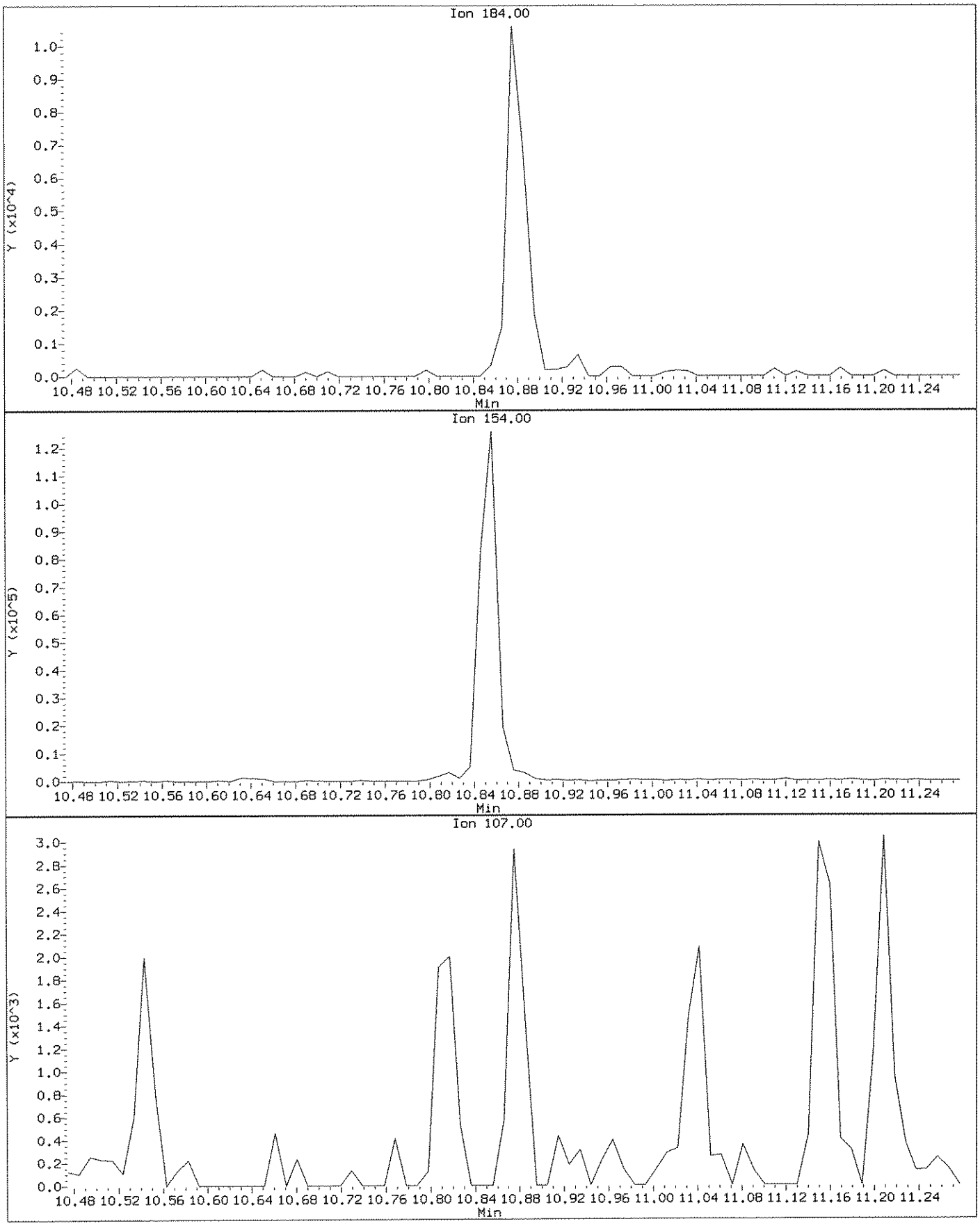
Client Sample ID: CAL5.0PPM

Compound: 2,4-Dinitrophenol
CAS Number: 51-28-5



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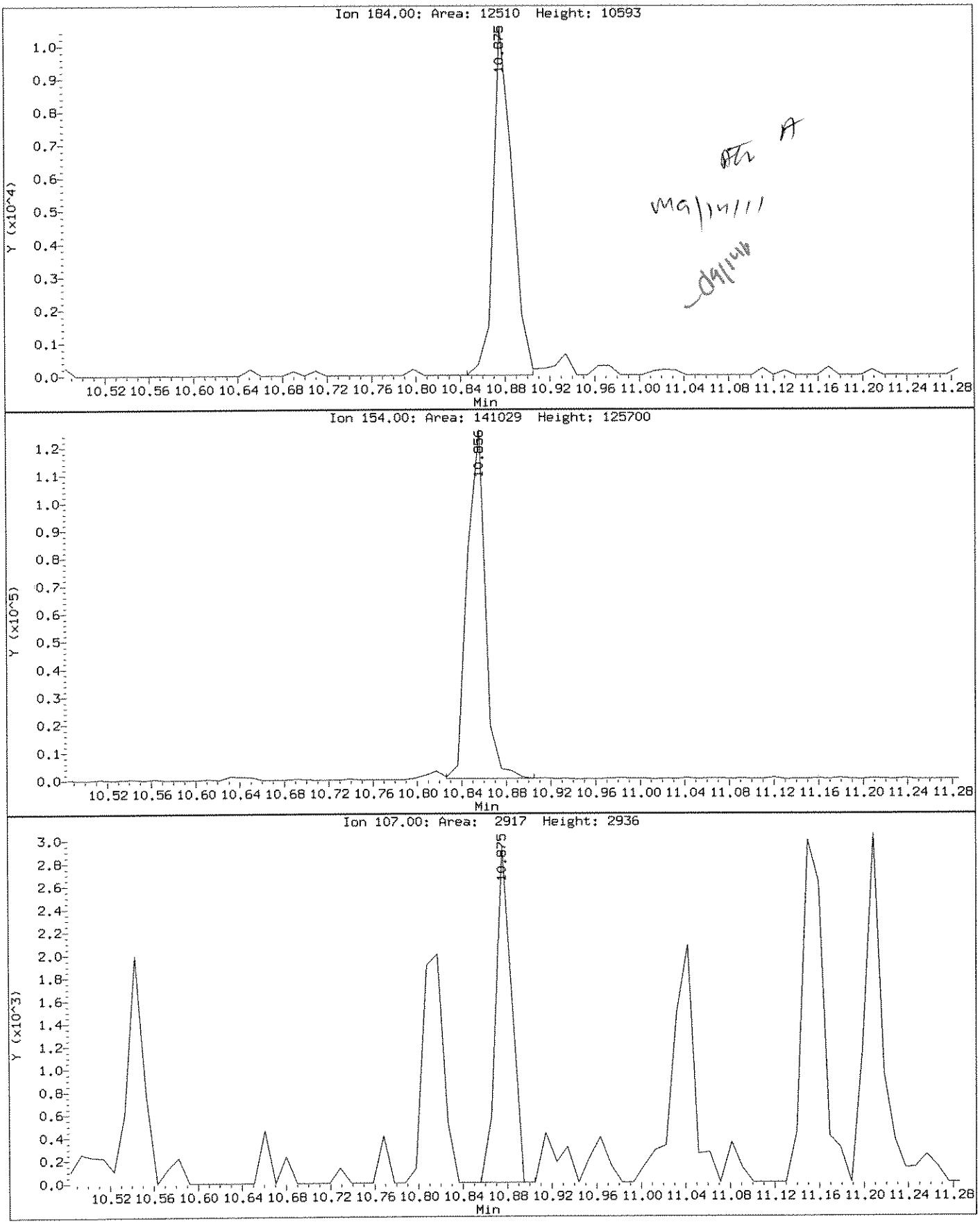
Compound: 2,4-Dinitrophenol
CAS Number: 51-28-5



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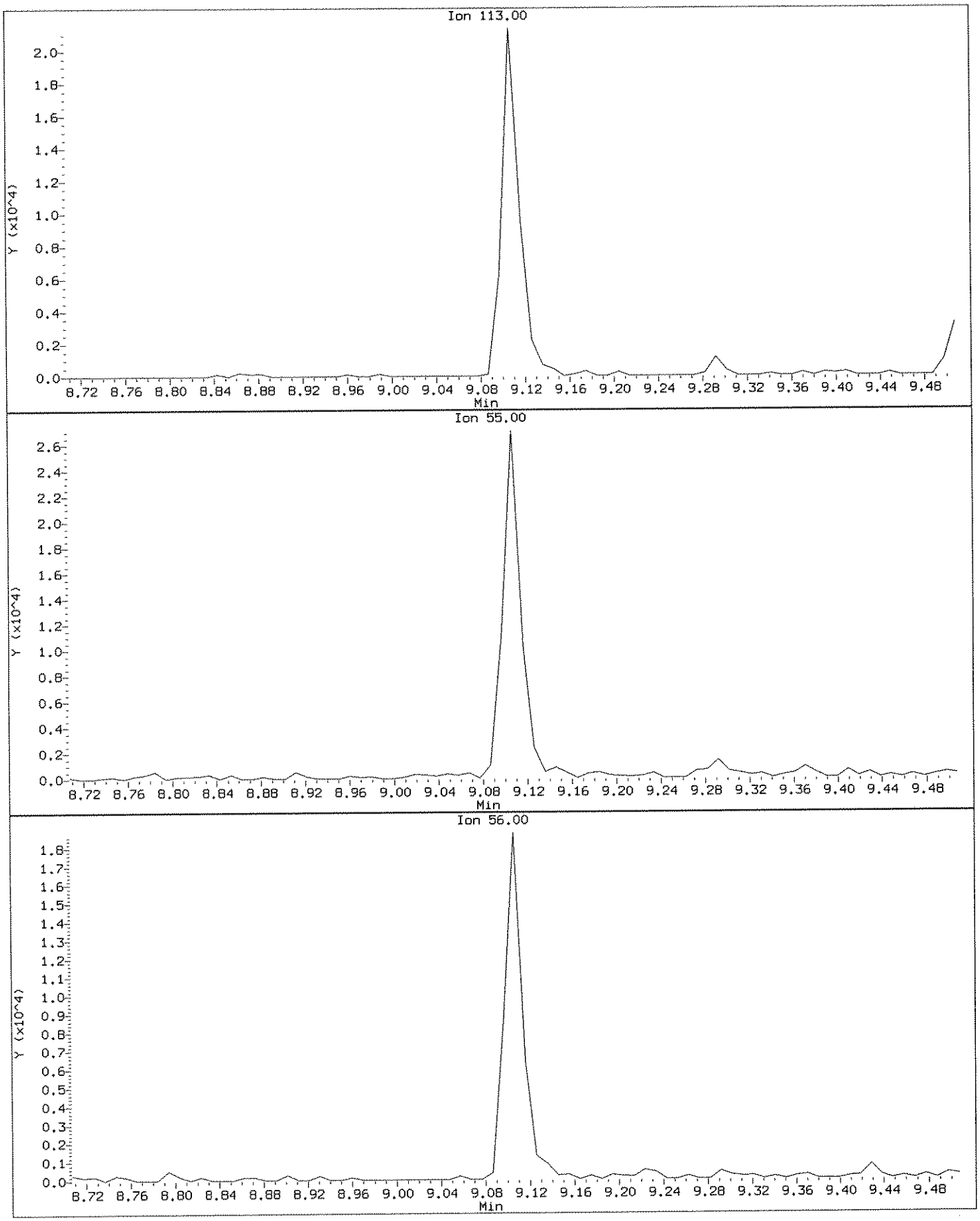
Instrument: bna1.i
Client Sample ID: CAL5.0PPM

Compound: Caprolactam
CAS Number: 105-60-2



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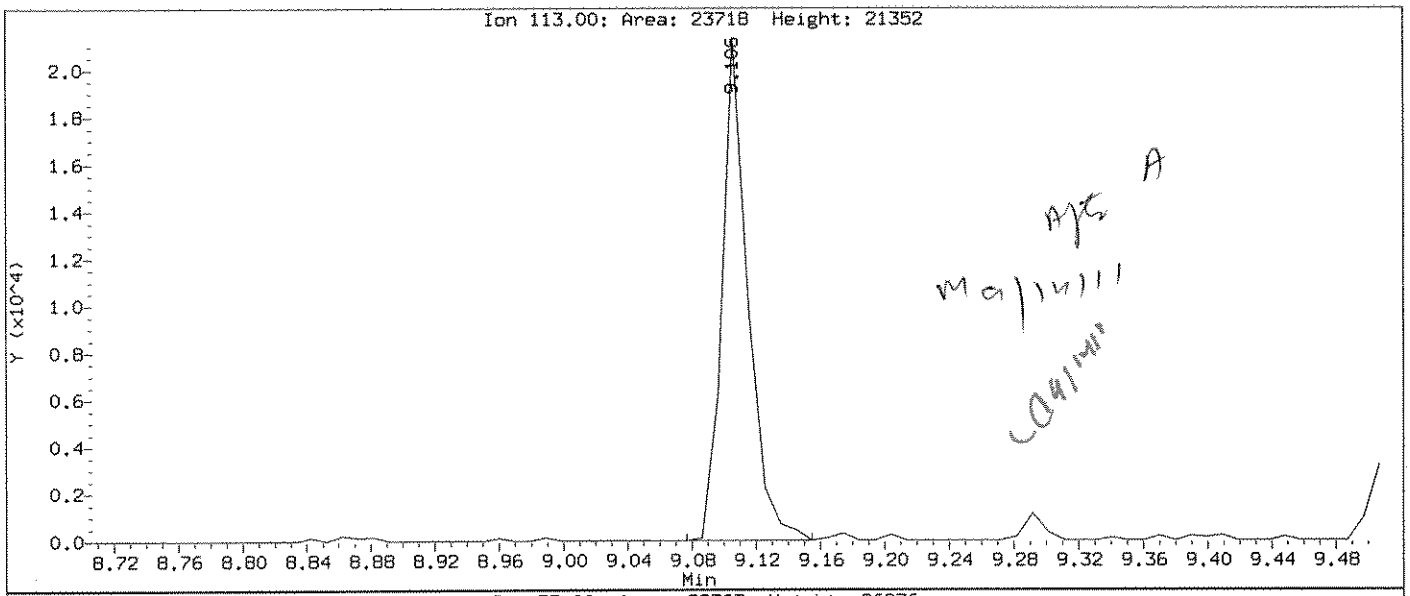
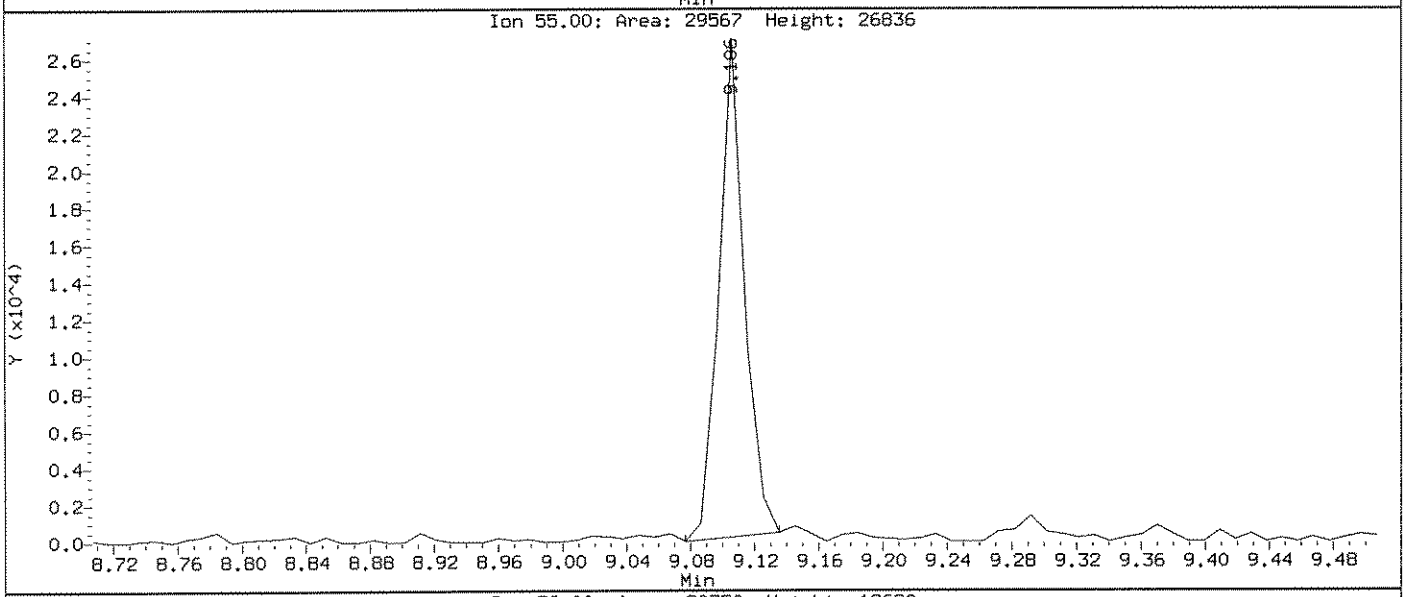
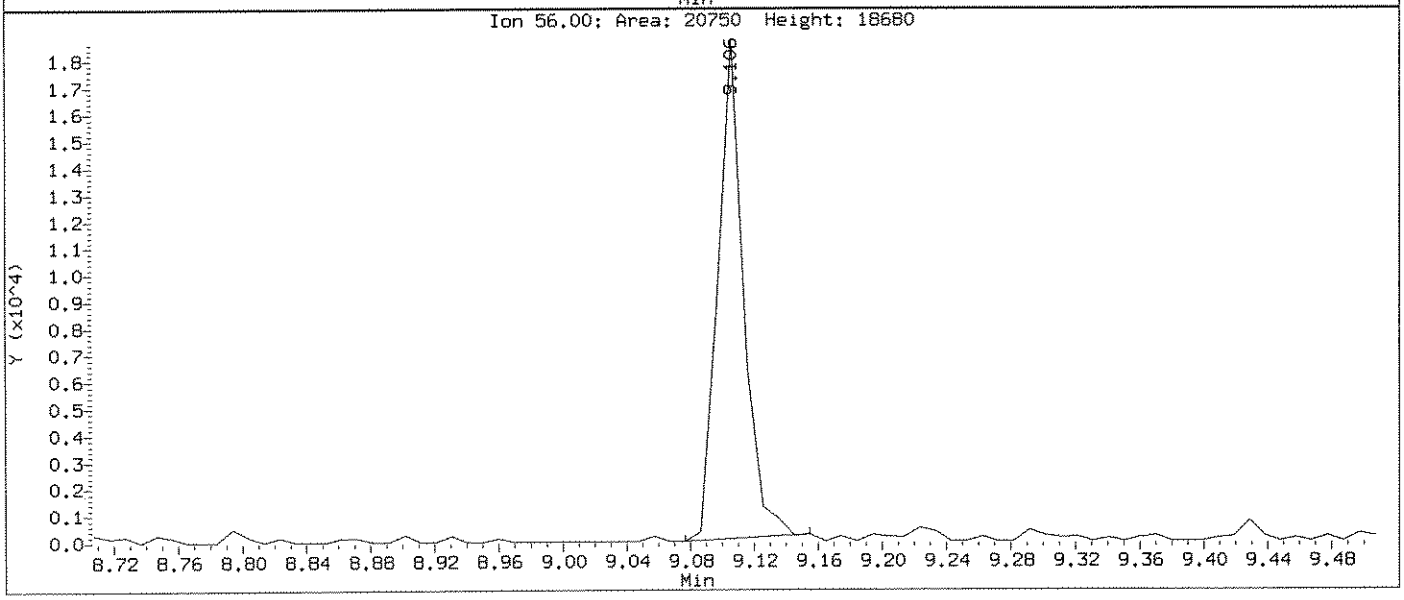
Compound: Caprolactam
CAS Number: 105-60-2







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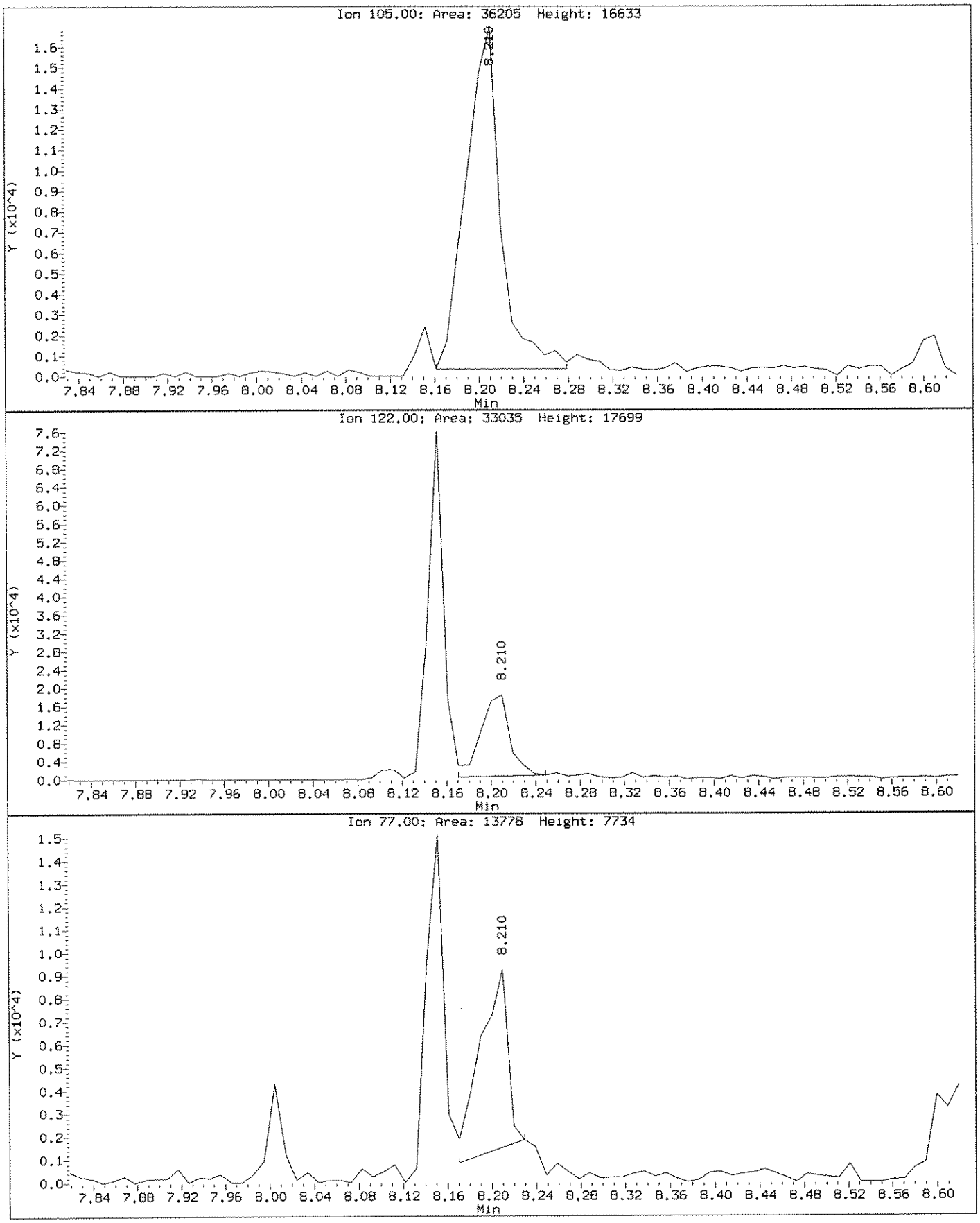
Instrument: bna1.i
Client Sample ID: CAL5.0PPM

Compound: Benzoic acid
CAS Number: 65-85-0



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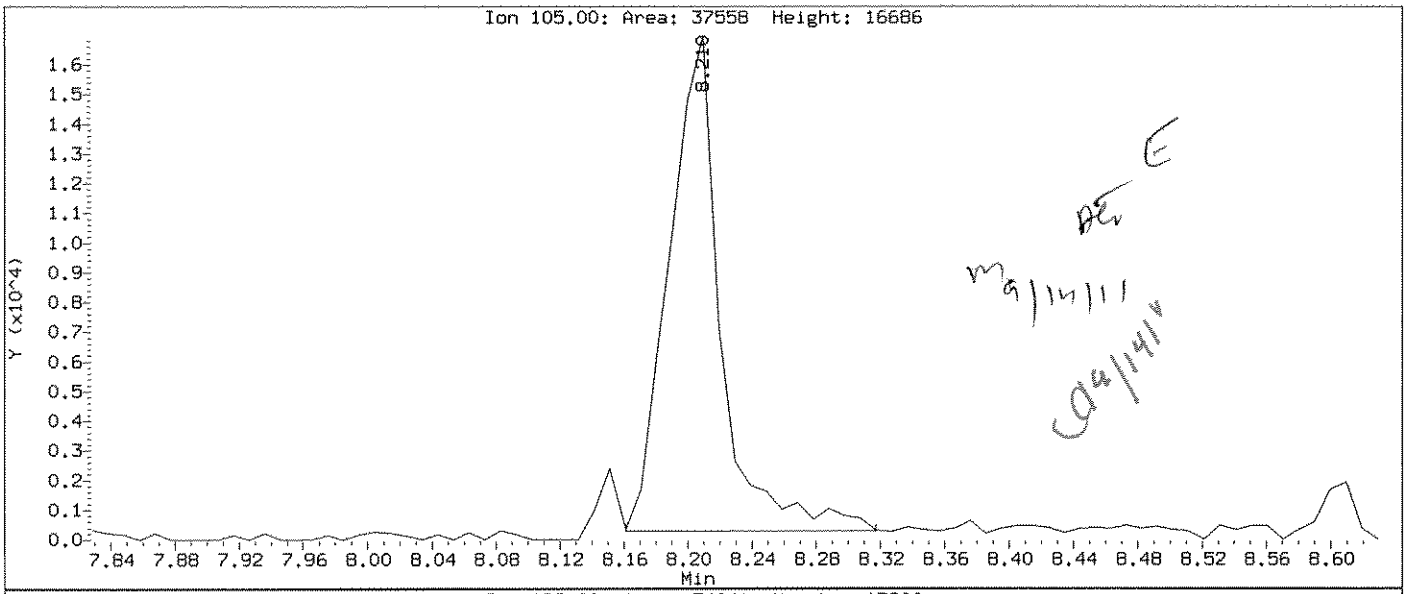
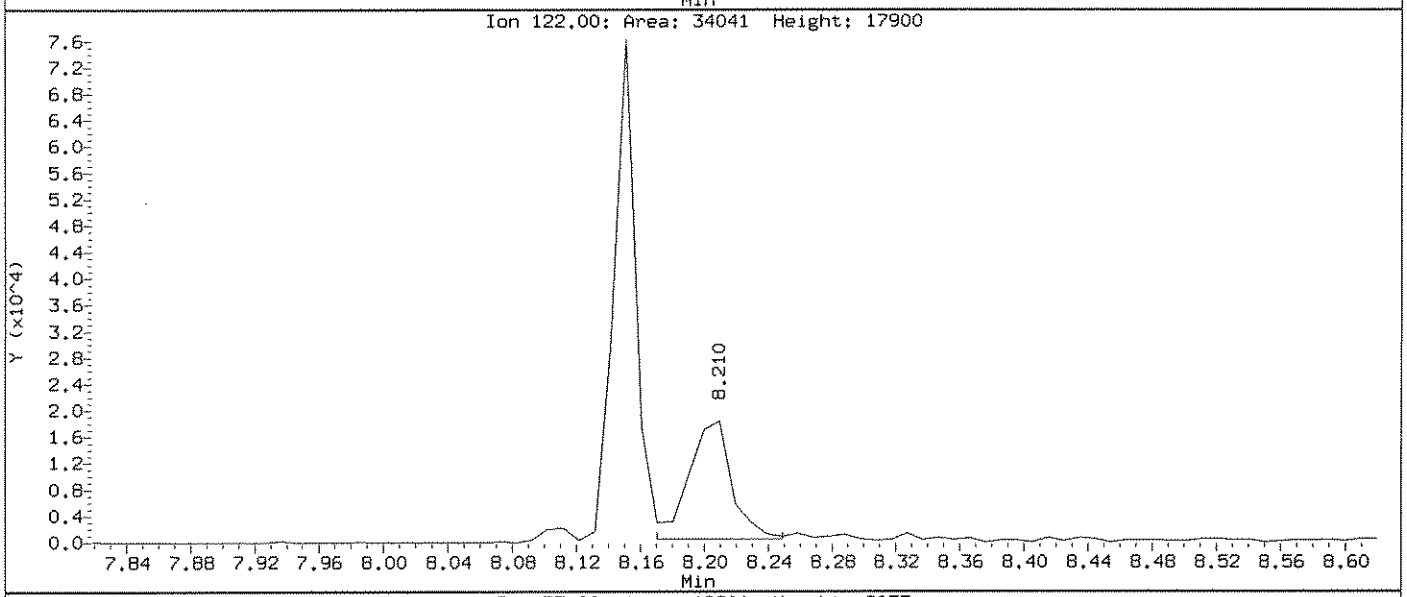
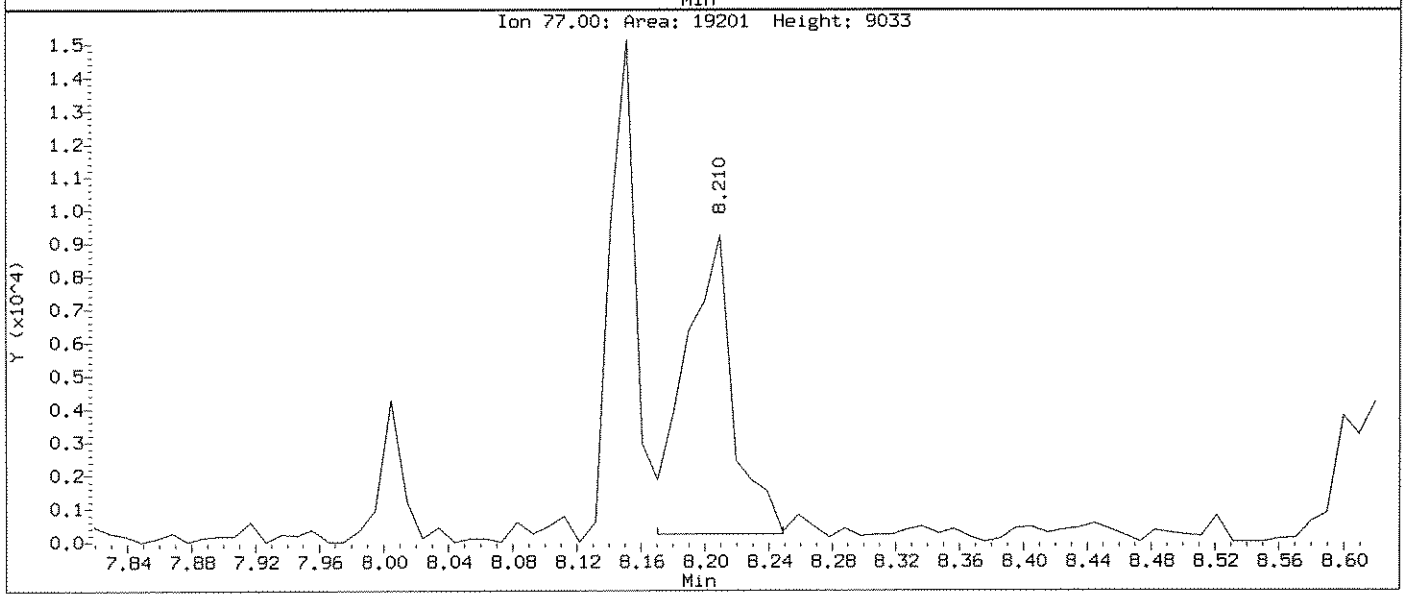
Injection Date: 10-SEP-2011 16:55
Instrument: bna1.i
Client Sample ID: CAL5.0PPM

Compound: Benzoic acid
CAS Number: 65-85-0







Data File: \\ELABNSH05\TARGET\chem\bna1.i\091011B1.b\SEQ-CAL2.D
Report Date: 14-Sep-2011 06:40

Laboratory Name

Data file : \\ELABNSH05\TARGET\chem\bna1.i\091011B1.b\SEQ-CAL2.D
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Inj Date : 10-SEP-2011 17:29 MS Autotune Date: 09-SEP-2011 09:38
Operator : MEC Inst ID: bna1.i
Smp Info : CAL10.0PPM;;;;;;
Misc Info : ;1;;;2;;ppbnax.sub;
Comment :
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Meth Date : 14-Sep-2011 06:40 amonteiro Quant Type: ISTD
Cal Date : 10-SEP-2011 16:55 Cal File: SEQ-CAL1.D
Als bottle: 3 Calibration Sample, Level: 2
Dil Factor: 1.00000
Integrator: HP RTE Compound Sublist: ppbnax.sub
Target Version: 4.04
Processing Host: TARGET02_VM

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Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	AMOUNTS CAL-AMT (ng/ul)	AMOUNTS ON-COL (ng/ul)
* 1 1,4-Dichlorobenzene-d4	152	6.970	6.970	(1.000)	553128	40.0000	
$ 2 2-Fluorophenol	112	5.301	5.301	(0.761)	215885	10.0000	11.44
$ 3 Phenol-d6	99	6.452	6.452	(0.926)	243481	10.0000	11.14
4 Pyridine	79	3.866	3.866	(0.555)	191981	10.0000	11.43
5 1,4-Dioxane	88	3.504	3.504	(0.503)	76541	10.0000	10.28
6 N-Nitroso-di-methylamine	42	3.817	3.817	(0.548)	74150	10.0000	9.004
7 Aniline	93	6.540	6.540	(0.938)	270653	10.0000	11.64
10 Phenol	94	6.472	6.472	(0.928)	235238	10.0000	11.55
11 bis(2-Chloroethyl)ether	93	6.618	6.618	(0.950)	198834	10.0000	11.20
12 2-Chlorophenol	128	6.687	6.687	(0.959)	241220	10.0000	11.88
13 1,3-Dichlorobenzene	146	6.892	6.892	(0.989)	261424	10.0000	11.90
14 1,4-Dichlorobenzene	146	6.990	6.990	(1.003)	239250	10.0000	10.95
15 Benzyl alcohol	108	7.127	7.127	(1.022)	119328	10.0000	10.99
16 1,2-Dichlorobenzene	146	7.185	7.185	(1.031)	238876	10.0000	11.02
17 2-Methylphenol	108	7.264	7.264	(1.042)	173019	10.0000	11.27
18 2,2'-Oxybis-1-chloropropane	45	7.303	7.303	(1.048)	283414	10.0000	11.48
19 3-Methylphenol	108	7.459	7.459	(1.070)	174936	10.0000	11.96
20 4-Methylphenol	108	7.459	7.459	(1.070)	174936	10.0000	11.96
196 3-Methylphenol/4-Methylphenol	108	7.459	7.459	(1.070)	174936	10.0000	11.96
21 N-Nitroso-di-n-propylamine	70	7.479	7.479	(1.073)	98432	10.0000	11.32
22 Hexachloroethane	117	7.616	7.616	(1.093)	109654	10.0000	10.96
32 Benzaldehyde	106	6.413	6.413	(0.920)	137396	10.0000	12.30
* 33 Naphthalene-d8	136	8.603	8.603	(1.000)	2110257	40.0000	
$ 34 Nitrobenzene-d5	82	7.674	7.674	(0.892)	164848	10.0000	9.970
35 Nitrobenzene	77	7.704	7.704	(0.895)	156405	10.0000	10.22
39 Isophorone	82	8.007	8.007	(0.931)	313012	10.0000	10.35

09/14/11

Data File: \\ELABNSH05\TARGET\chem\bna1.i\091011B1.b\SEQ-CAL2.D
Report Date: 14-Sep-2011 06:40

	Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	AMOUNTS CAL-AMT (ng/ul)	AMOUNTS ON-COL (ng/ul)
	40 2-Nitrophenol	139	8.104	8.104	(0.942)	120414	10.0000	9.855
	42 2,4-Dimethylphenol	107	8.153	8.153	(0.948)	171892	10.0000	10.05
	43 Benzoic acid	105	8.232	8.232	(0.957)	97519	10.0000	10.90(M)
	44 bis(2-Chloroethoxy)methane	93	8.290	8.290	(0.964)	221094	10.0000	10.30
	47 2,4-Dichlorophenol	162	8.408	8.408	(0.977)	182829	10.0000	10.94
	62 2,6-Dichlorophenol	162	8.701	8.701	(1.011)	171745	10.0000	10.88
	50 1,2,4-Trichlorobenzene	180	8.525	8.525	(0.991)	161409	10.0000	9.774
	51 Naphthalene	128	8.633	8.633	(1.003)	664227	10.0000	11.48
	52 4-Chloroaniline	127	8.692	8.692	(1.010)	269298	10.0000	11.98
	53 Hexachlorobutadiene	225	8.779	8.779	(1.020)	106810	10.0000	10.35
	54 4-Chloro-3-methylphenol	107	9.297	9.297	(1.081)	137382	10.0000	10.04
	55 2-Methylnaphthalene	141	9.511	9.511	(1.106)	276452	10.0000	10.66
	56 1-Methylnaphthalene	141	9.628	9.628	(1.119)	270405	10.0000	11.00
	57 Acetophenone	105	7.479	7.479	(1.073)	264925	10.0000	11.71
	67 1,2,4,5-Tetrachlorobenzene	216	9.716	9.716	(1.129)	164495	10.0000	11.36
	68 Caprolactam	113	9.121	9.121	(1.060)	61325	10.0000	10.30
*	69 Acenaphthene-d10	164	10.819	10.819	(1.000)	992342	40.0000	
	70 Hexachlorocyclopentadiene	237	9.706	9.706	(0.897)	87261	10.0000	9.978
	71 2,4,6-Trichlorophenol	196	9.852	9.852	(0.911)	106336	10.0000	10.52
	72 2,4,5-Trichlorophenol	196	9.901	9.901	(0.915)	103861	10.0000	10.18
	73 2-Chloronaphthalene	162	10.116	10.116	(0.935)	352281	10.0000	11.34
$	74 2-Fluorobiphenyl	172	9.969	9.969	(0.921)	333774	10.0000	10.08
	75 2-Nitroaniline	65	10.243	10.243	(0.947)	66627	10.0000	9.644
	76 Dimethylphthalate	163	10.467	10.467	(0.967)	378855	10.0000	10.85
	77 Acenaphthylene	152	10.634	10.634	(0.983)	506486	10.0000	11.26
	78 2,6-Dinitrotoluene	165	10.546	10.546	(0.975)	88620	10.0000	9.318
	79 3-Nitroaniline	138	10.751	10.751	(0.994)	115803	10.0000	10.18
	80 Acenaphthene	153	10.849	10.849	(1.003)	299266	10.0000	9.887
	81 2,4-Dinitrophenol	184	10.878	10.878	(1.005)	35348	10.0000	9.828
	83 4-Nitrophenol	65	10.937	10.937	(1.011)	32682	10.0000	8.348
	84 Dibenzofuran	168	11.064	11.064	(1.023)	400403	10.0000	10.44
	85 2,4-Dinitrotoluene	165	11.044	11.044	(1.021)	111068	10.0000	9.622
	86 Diethylphthalate	149	11.337	11.337	(1.048)	374612	10.0000	10.31
	87 4-Chlorophenyl-phenylether	204	11.493	11.493	(1.062)	143416	10.0000	11.27
	88 Fluorene	166	11.493	11.493	(1.062)	345619	10.0000	11.87
	89 4-Nitroaniline	138	11.503	11.503	(1.063)	101954	10.0000	9.459
	96 2,3,4,6-Tetrachlorophenol	232	11.152	11.152	(1.031)	81649	10.0000	9.734
	100 1,1'-Biphenyl	154	10.096	10.096	(0.933)	397824	10.0000	10.80
*	102 Phenanthrene-d10	188	12.656	12.656	(1.000)	1457810	40.0000	
	103 1,2-Diphenylhydrazine	77	11.679	11.679	(0.923)	269739	10.0000	9.841
	104 Carbazole	167	12.949	12.949	(1.023)	410892	10.0000	10.76
	105 4,6-Dinitro-2-methylphenol	198	11.543	11.543	(0.912)	53738	10.0000	10.49
	106 N-Nitrosodiphenylamine	169	11.630	11.630	(0.919)	251512	10.0000	10.74
$	107 2,4,6-Tribromophenol	330	11.787	11.787	(0.931)	52952	10.0000	9.507
	108 4-Bromophenyl-phenylether	248	12.090	12.090	(0.955)	79242	10.0000	9.933
	109 Hexachlorobenzene	284	12.158	12.158	(0.961)	97209	10.0000	10.33
	110 Pentachlorophenol	266	12.402	12.402	(0.980)	61142	10.0000	8.979(M)

Data File: \\ELABNSH05\TARGET\chem\bna1.i\091011B1.b\SEQ-CAL2.D
Report Date: 14-Sep-2011 06:40

Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	AMOUNTS CAL-AMT (ng/ul)	AMOUNTS ON-COL (ng/ul)
111 Phenanthrene	178	12.685	12.685	(1.002)	444178	10.0000	11.50
112 Anthracene	178	12.744	12.744	(1.007)	479877	10.0000	12.41
115 Di-n-butylphthalate	149	13.408	13.408	(1.059)	574599	10.0000	10.25
116 Fluoranthene	202	14.346	14.346	(1.134)	422851	10.0000	11.47
129 Atrazine	200	12.285	12.285	(0.971)	81940	10.0000	11.15
* 132 Chrysene-d12	240	16.841	16.841	(1.000)	1162907	40.0000	
133 Benzidine	184	14.550	14.550	(0.864)	141272	10.0000	9.573
134 Pyrene	202	14.706	14.706	(0.873)	396961	10.0000	9.398
$ 135 Terphenyl-d14	244	14.950	14.950	(0.888)	232659	10.0000	9.891
136 Butylbenzylphthalate	149	15.817	15.817	(0.939)	267718	10.0000	9.395
137 3,3'-Dichlorobenzidine	252	16.785	16.785	(0.997)	104401	10.0000	9.818
138 Benzo(a)anthracene	228	16.822	16.822	(0.999)	364977	10.0000	10.36
139 Chrysene	228	16.888	16.888	(1.003)	354602	10.0000	10.43
140 Bis(2-ethylhexyl)phthalate	149	16.926	16.926	(1.005)	360479	10.0000	9.101
* 154 Perylene-d12	264	19.595	19.595	(1.000)	1052748	40.0000	
155 Di-n-octylphthalate	149	18.217	18.217	(0.930)	529985	10.0000	10.42
156 Benzo(b)fluoranthene	252	18.872	18.872	(0.963)	296868	10.0000	9.422
157 Benzo(k)fluoranthene	252	18.921	18.921	(0.966)	314371	10.0000	9.798
158 Benzo(a)pyrene	252	19.480	19.480	(0.994)	275345	10.0000	9.673
159 Indeno(1,2,3-cd)pyrene	276	21.869	21.869	(1.116)	203613	10.0000	9.945
160 Dibenz(a,h)anthracene	278	21.937	21.937	(1.119)	187395	10.0000	9.134
161 Benzo(g,h,i)perylene	276	22.535	22.535	(1.150)	217805	10.0000	10.23

QC Flag Legend

M - Compound response manually integrated.

Data File: \\ELABNSHO5\TARGET\chem\bna1.i\091011B1.b\SEQ-CAL2.D
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Sample Info: CAL10.0PPM;;;;;;
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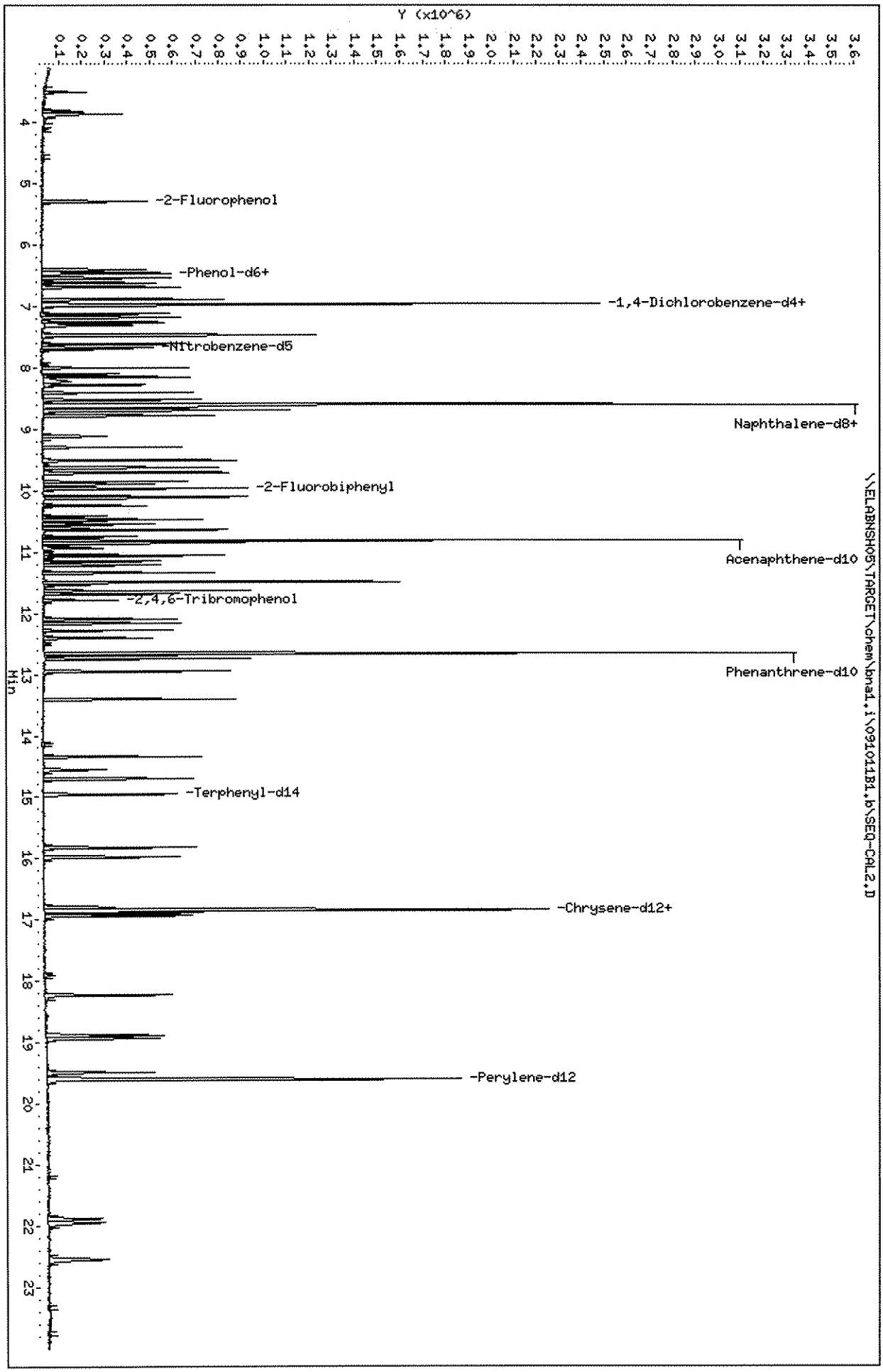
Instrument: bna1.i
Operator: HEC
Column diameter: 0.25



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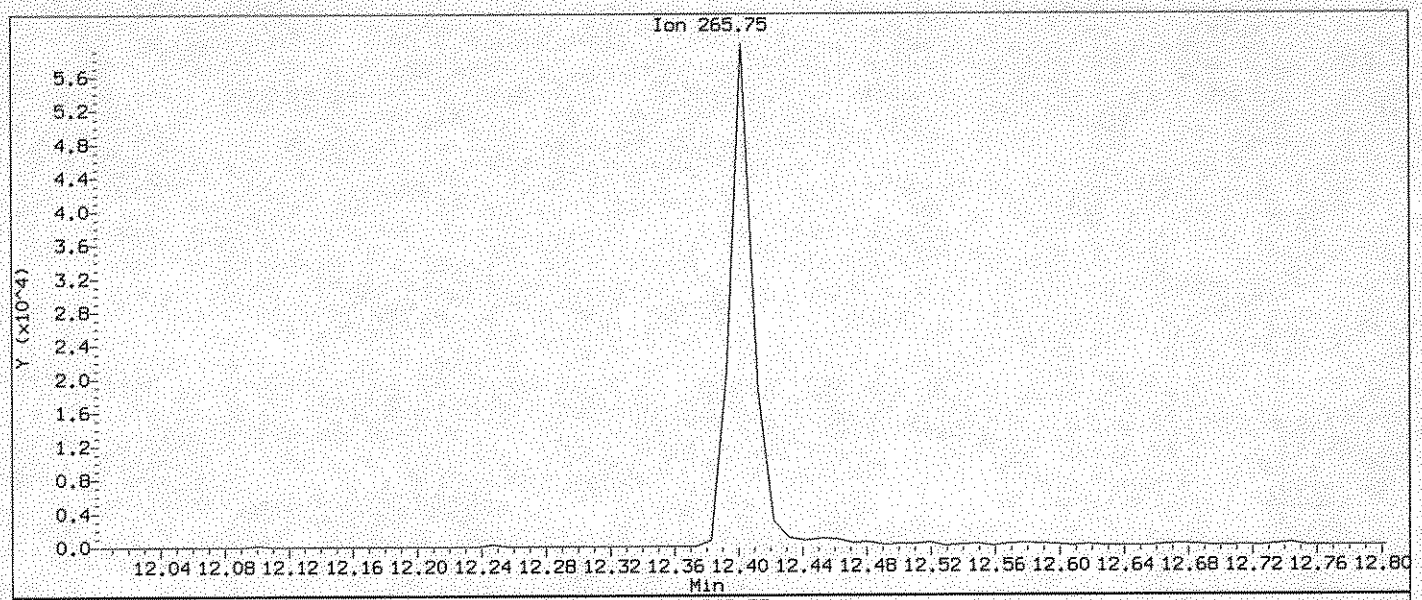
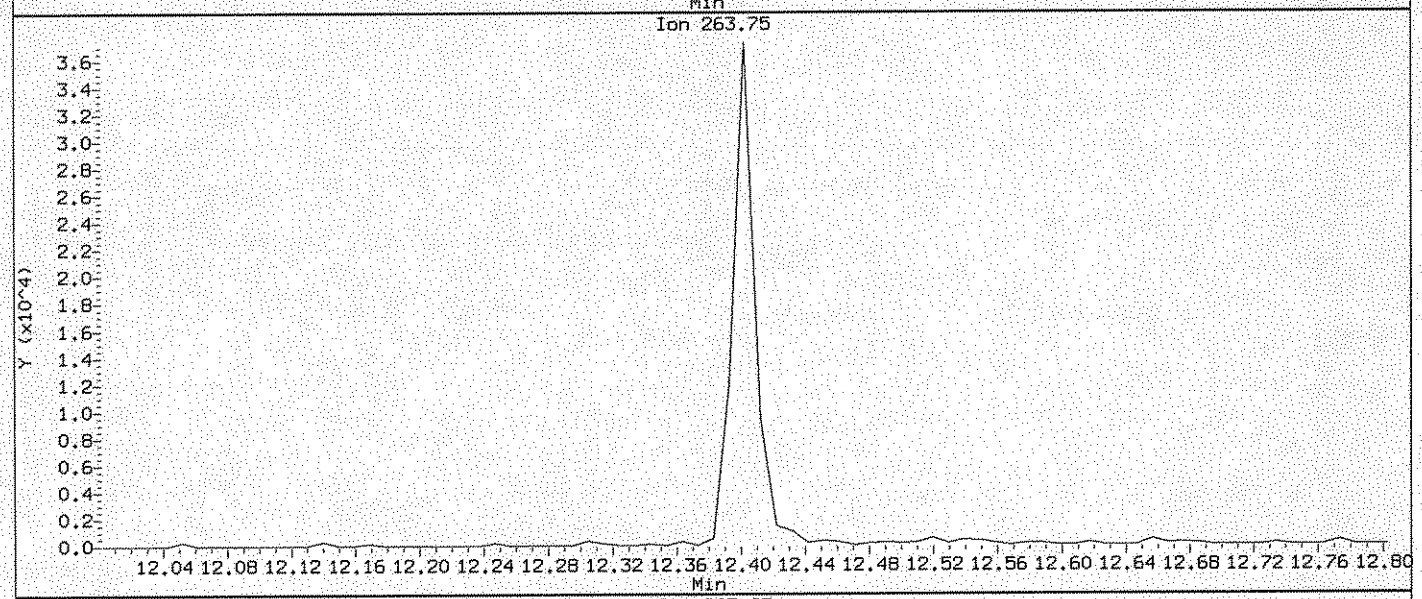
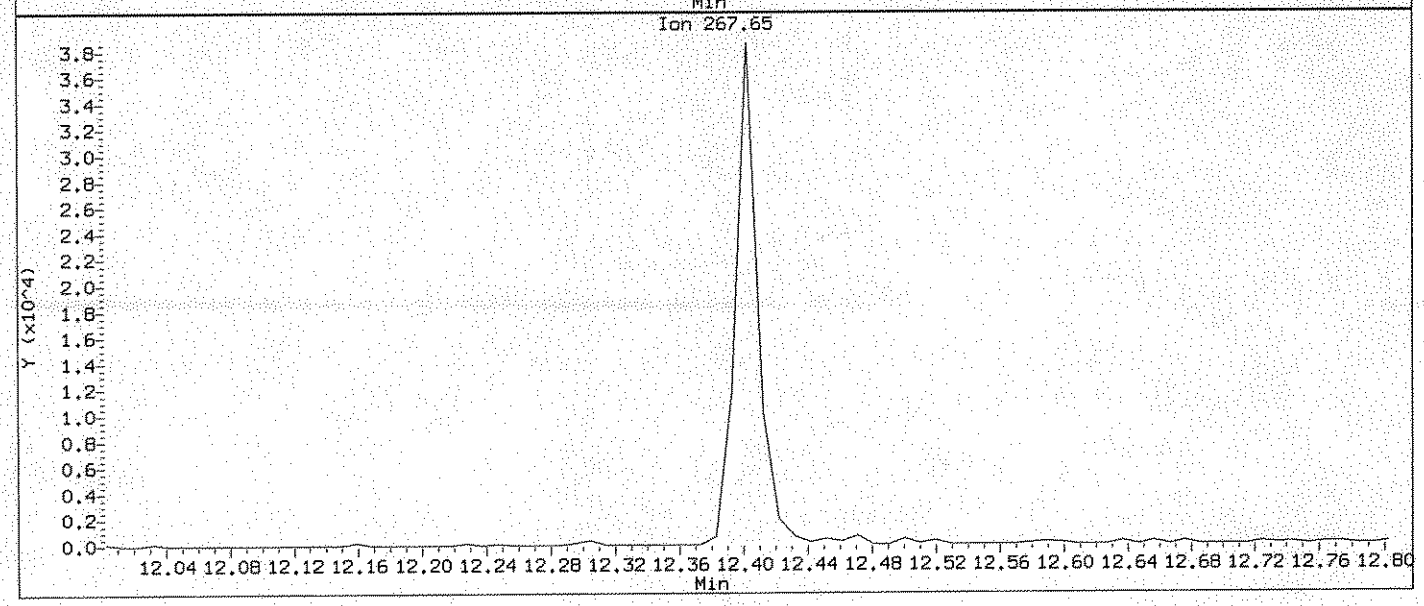
Instrument: bna1.i
Client Sample ID: CAL10.0PPM

Compound: Pentachlorophenol
CAS Number: 87-86-5







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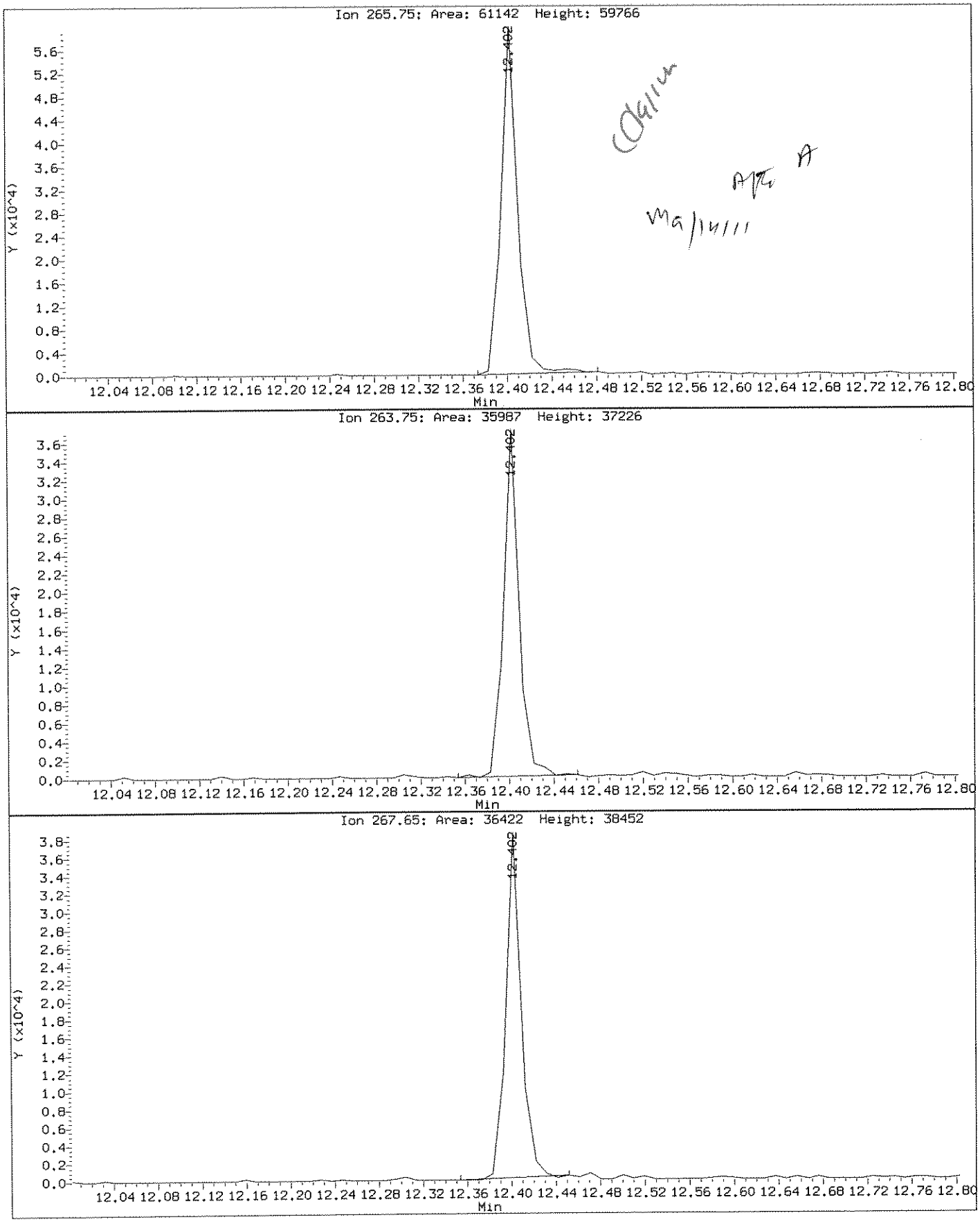
Client Sample ID: CAL10.0PPM

Compound: Pentachlorophenol
CAS Number: 87-86-5



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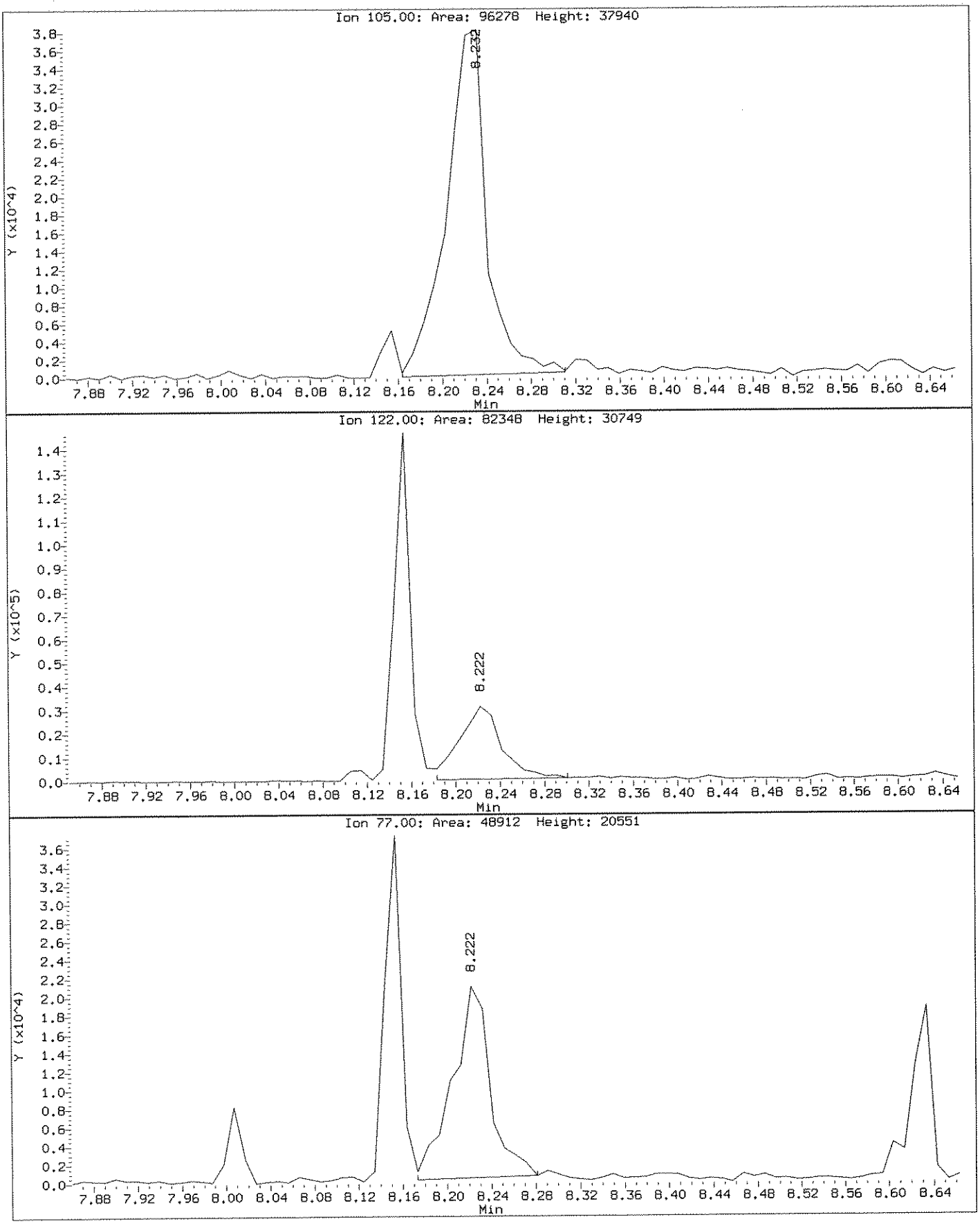
Injection Date: 10-SEP-2011 17:29
Instrument: bna1.i
Client Sample ID: CAL10.0PPM

Compound: Benzoic acid
CAS Number: 65-85-0



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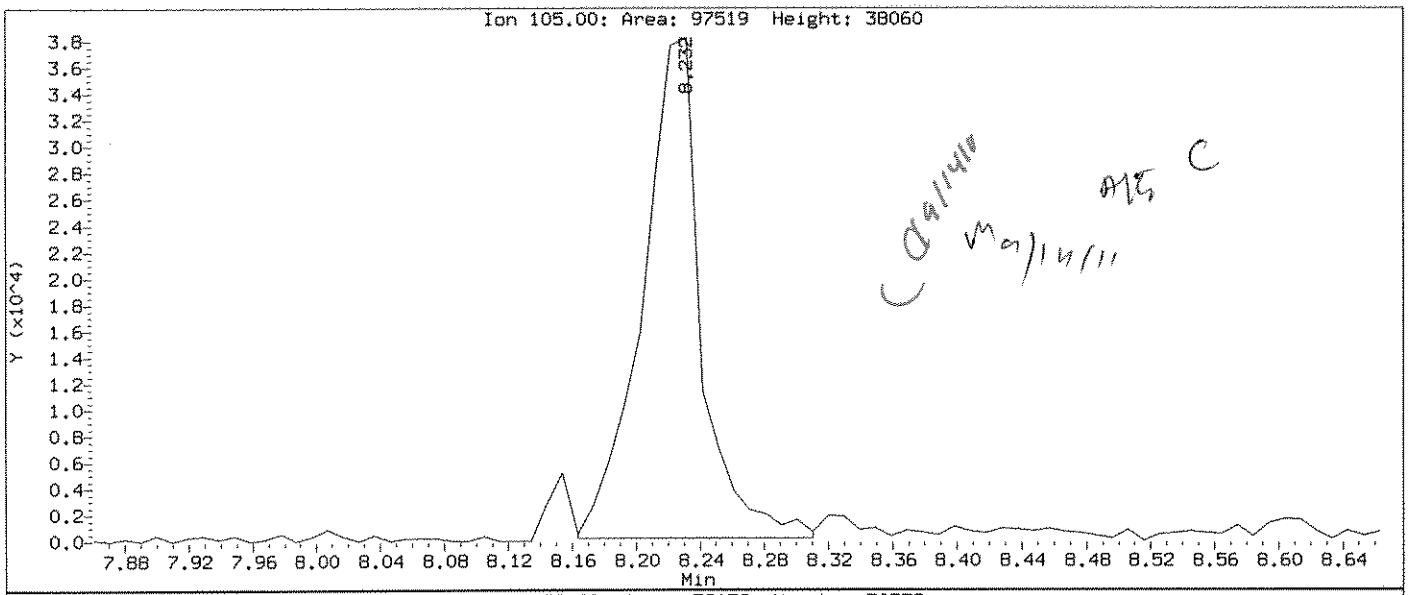
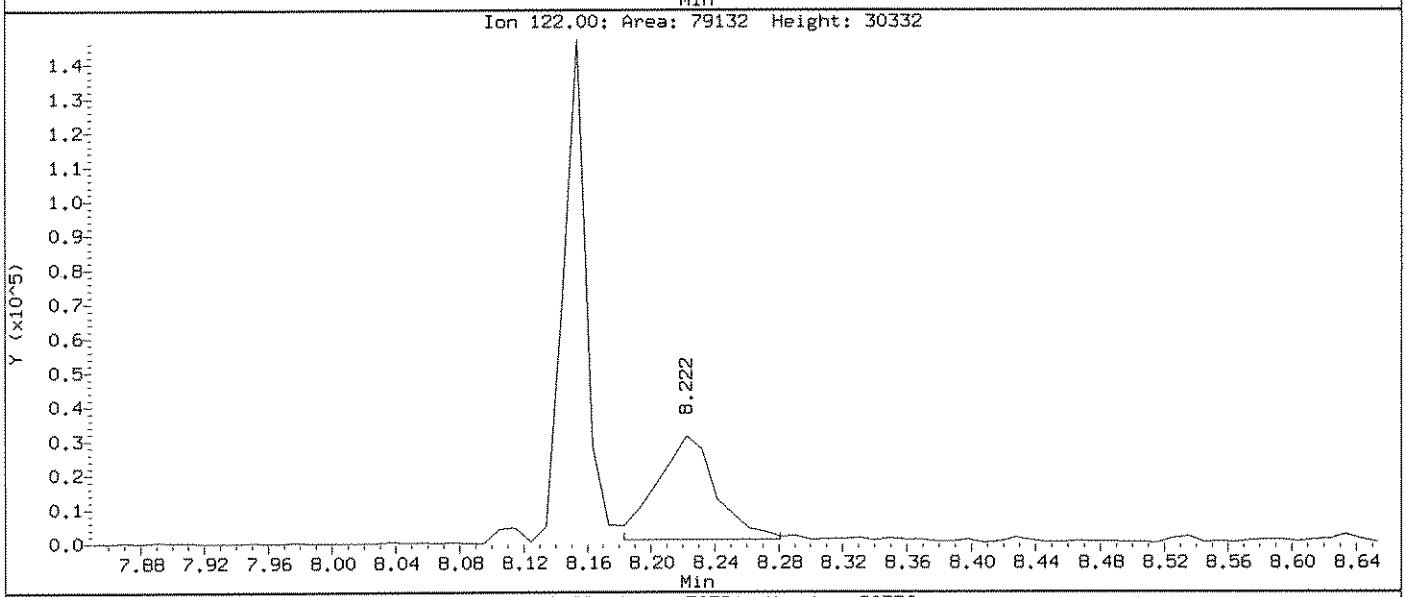
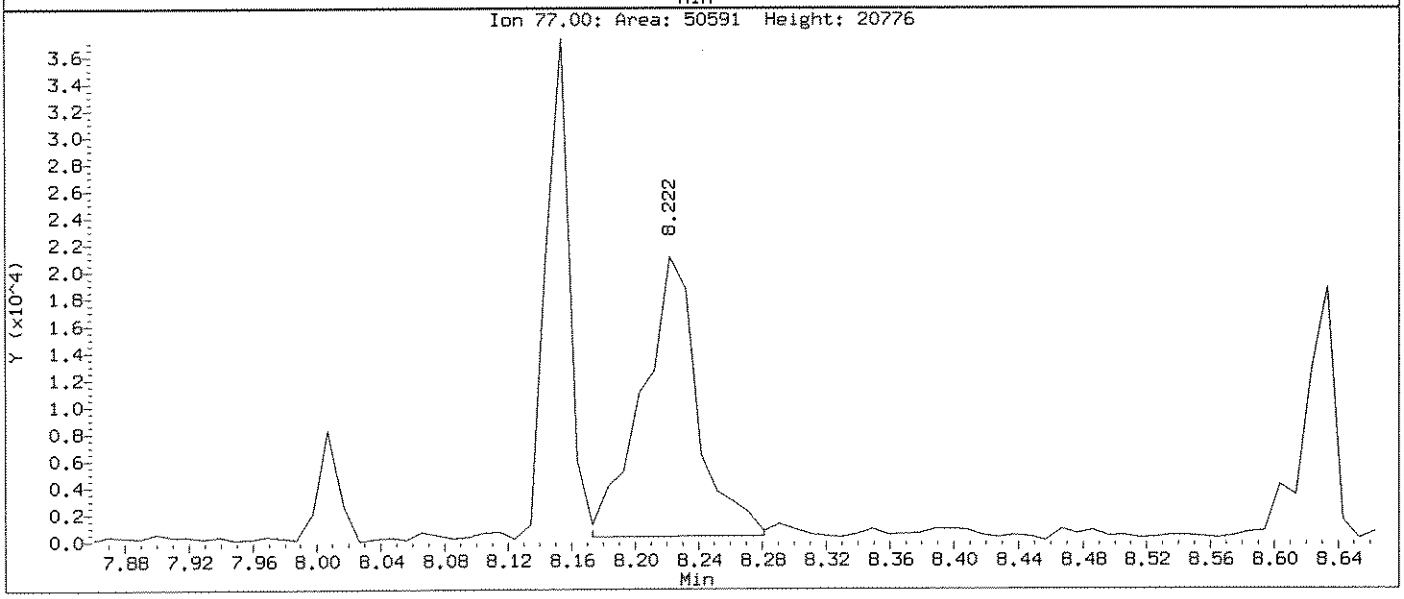
Instrument: bna1.i
Client Sample ID: CAL10.0PPM

Compound: Benzoic acid
CAS Number: 65-85-0







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Report Date: 14-Sep-2011 06:40

Laboratory Name

Data file : \\ELABNSH05\TARGET\chem\bna1.i\091011B1.b\SEQ-CAL3.D
Lab Smp Id: SEQ-CAL3 Client Smp ID: CAL20.0PPM
Inj Date : 10-SEP-2011 18:03 MS Autotune Date: 09-SEP-2011 09:38
Operator : MEC Inst ID: bna1.i
Smp Info : CAL20.0PPM;;;;;;
Misc Info : ;1;;;3;;ppbnax.sub;
Comment :
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Meth Date : 14-Sep-2011 06:40 amonteiro Quant Type: ISTD
Cal Date : 10-SEP-2011 16:55 Cal File: SEQ-CAL1.D
Als bottle: 4 Calibration Sample, Level: 3
Dil Factor: 1.00000
Integrator: HP RTE Compound Sublist: ppbnax.sub
Target Version: 4.04
Processing Host: TARGET02_VM

MG 11/7/11

Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	AMOUNTS CAL-AMT (ng/ul)	AMOUNTS ON-COL (ng/ul)
* 1 1,4-Dichlorobenzene-d4	152	6.969	6.969	(1.000)	639987	40.0000	
$ 2 2-Fluorophenol	112	5.299	5.299	(0.760)	422467	20.0000	19.36
$ 3 Phenol-d6	99	6.461	6.461	(0.927)	485553	20.0000	19.20
4 Pyridine	79	3.864	3.864	(0.555)	372226	20.0000	19.16
5 1,4-Dioxane	88	3.503	3.503	(0.503)	175124	20.0000	20.32
6 N-Nitroso-di-methylamine	42	3.815	3.815	(0.548)	164528	20.0000	17.27
7 Aniline	93	6.539	6.539	(0.938)	504433	20.0000	18.75
10 Phenol	94	6.480	6.480	(0.930)	457441	20.0000	19.41
11 bis(2-Chloroethyl)ether	93	6.617	6.617	(0.950)	387373	20.0000	18.85
12 2-Chlorophenol	128	6.685	6.685	(0.959)	465786	20.0000	19.83
13 1,3-Dichlorobenzene	146	6.890	6.890	(0.989)	483104	20.0000	19.01
14 1,4-Dichlorobenzene	146	6.988	6.988	(1.003)	494021	20.0000	19.54
15 Benzyl alcohol	108	7.134	7.134	(1.024)	251304	20.0000	20.01
16 1,2-Dichlorobenzene	146	7.183	7.183	(1.031)	518720	20.0000	20.68
17 2-Methylphenol	108	7.261	7.261	(1.042)	344471	20.0000	19.40
18 2,2'-Oxybis-1-chloropropane	45	7.310	7.310	(1.049)	561598	20.0000	19.66
19 3-Methylphenol	108	7.467	7.467	(1.071)	354956	20.0000	20.97
20 4-Methylphenol	108	7.467	7.467	(1.071)	354956	20.0000	20.97
196 3-Methylphenol/4-Methylphenol	108	7.467	7.467	(1.071)	354956	20.0000	20.97
21 N-Nitroso-di-n-propylamine	70	7.476	7.476	(1.073)	204949	20.0000	20.37
22 Hexachloroethane	117	7.623	7.623	(1.094)	216889	20.0000	18.74
32 Benzaldehyde	106	6.412	6.412	(0.920)	234112	20.0000	18.12
* 33 Naphthalene-d8	136	8.609	8.609	(1.000)	2362564	40.0000	
$ 34 Nitrobenzene-d5	82	7.682	7.682	(0.892)	328359	20.0000	17.74
35 Nitrobenzene	77	7.702	7.702	(0.895)	312680	20.0000	18.25
39 Isophorone	82	8.014	8.014	(0.931)	608663	20.0000	17.98

Data File: \\ELABNSH05\TARGET\chem\bna1.i\091011B1.b\SEQ-CAL3.D
Report Date: 14-Sep-2011 06:40

Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	AMOUNTS CAL-AMT (ng/ul)	AMOUNTS ON-COL (ng/ul)
40 2-Nitrophenol	139	8.112	8.112	(0.942)	246884	20.0000	18.05
42 2,4-Dimethylphenol	107	8.151	8.151	(0.947)	354828	20.0000	18.54
43 Benzoic acid	105	8.259	8.259	(0.959)	239014	20.0000	18.50(M)
44 bis(2-Chloroethoxy)methane	93	8.289	8.289	(0.963)	439951	20.0000	18.30
47 2,4-Dichlorophenol	162	8.415	8.415	(0.977)	358644	20.0000	19.16
62 2,6-Dichlorophenol	162	8.707	8.707	(1.011)	337250	20.0000	19.09
50 1,2,4-Trichlorobenzene	180	8.532	8.532	(0.991)	353857	20.0000	19.14
51 Naphthalene	128	8.628	8.628	(1.002)	1291986	20.0000	19.94
52 4-Chloroaniline	127	8.697	8.697	(1.010)	507856	20.0000	20.18
53 Hexachlorobutadiene	225	8.785	8.785	(1.020)	219432	20.0000	18.99
54 4-Chloro-3-methylphenol	107	9.304	9.304	(1.081)	290032	20.0000	18.93
55 2-Methylnaphthalene	141	9.509	9.509	(1.104)	599393	20.0000	20.64
56 1-Methylnaphthalene	141	9.636	9.636	(1.119)	518438	20.0000	18.84
57 Acetophenone	105	7.486	7.486	(1.074)	524299	20.0000	20.02
67 1,2,4,5-Tetrachlorobenzene	216	9.714	9.714	(1.128)	320117	20.0000	19.75
68 Caprolactam	113	9.137	9.137	(1.061)	119061	20.0000	17.86
* 69 Acenaphthene-d10	164	10.815	10.815	(1.000)	1010023	40.0000	
70 Hexachlorocyclopentadiene	237	9.705	9.705	(0.897)	175621	20.0000	19.73
71 2,4,6-Trichlorophenol	196	9.858	9.858	(0.912)	187130	20.0000	18.19
72 2,4,5-Trichlorophenol	196	9.897	9.897	(0.915)	194227	20.0000	18.70
73 2-Chloronaphthalene	162	10.120	10.120	(0.936)	628670	20.0000	19.87
$ 74 2-Fluorobiphenyl	172	9.974	9.974	(0.922)	719027	20.0000	21.34
75 2-Nitroaniline	65	10.247	10.247	(0.947)	126541	20.0000	18.00
76 Dimethylphthalate	163	10.472	10.472	(0.968)	727055	20.0000	20.45
77 Acenaphthylene	152	10.638	10.638	(0.984)	931910	20.0000	20.35
78 2,6-Dinitrotoluene	165	10.550	10.550	(0.976)	194952	20.0000	20.14
79 3-Nitroaniline	138	10.756	10.756	(0.995)	235250	20.0000	20.31
80 Acenaphthene	153	10.854	10.854	(1.004)	635784	20.0000	20.64
81 2,4-Dinitrophenol	184	10.882	10.882	(1.006)	86839	20.0000	19.08
83 4-Nitrophenol	65	10.941	10.941	(1.012)	74676	20.0000	18.74
84 Dibenzofuran	168	11.068	11.068	(1.023)	768072	20.0000	19.67
85 2,4-Dinitrotoluene	165	11.039	11.039	(1.021)	224947	20.0000	19.15
86 Diethylphthalate	149	11.341	11.341	(1.049)	737809	20.0000	19.96
87 4-Chlorophenyl-phenylether	204	11.488	11.488	(1.062)	255590	20.0000	19.74
88 Fluorene	166	11.498	11.498	(1.063)	599726	20.0000	20.24
89 4-Nitroaniline	138	11.507	11.507	(1.064)	211730	20.0000	19.30
96 2,3,4,6-Tetrachlorophenol	232	11.156	11.156	(1.032)	164861	20.0000	19.31
100 1,1'-Biphenyl	154	10.092	10.092	(0.933)	832662	20.0000	22.21
* 102 Phenanthrene-d10	188	12.657	12.657	(1.000)	1493123	40.0000	
103 1,2-Diphenylhydrazine	77	11.683	11.683	(0.923)	550995	20.0000	19.63
104 Carbazole	167	12.950	12.950	(1.023)	790030	20.0000	20.20
105 4,6-Dinitro-2-methylphenol	198	11.546	11.546	(0.912)	128504	20.0000	19.69
106 N-Nitrosodiphenylamine	169	11.634	11.634	(0.919)	482711	20.0000	20.13
$ 107 2,4,6-Tribromophenol	330	11.790	11.790	(0.932)	115929	20.0000	20.32
108 4-Bromophenyl-phenylether	248	12.094	12.094	(0.955)	178357	20.0000	21.83
109 Hexachlorobenzene	284	12.161	12.161	(0.961)	200261	20.0000	20.78
110 Pentachlorophenol	266	12.404	12.404	(0.980)	144246	20.0000	20.68

Data File: \\ELABNSH05\TARGET\chem\bna1.i\091011B1.b\SEQ-CAL3.D
Report Date: 14-Sep-2011 06:40

Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	AMOUNTS CAL-AMT (ng/ul)	AMOUNTS ON-COL (ng/ul)
111 Phenanthrene	178	12.686	12.686	(1.002)	812652	20.0000	20.54
112 Anthracene	178	12.755	12.755	(1.008)	817391	20.0000	20.64
115 Di-n-butylphthalate	149	13.411	13.411	(1.060)	1218556	20.0000	21.23
116 Fluoranthene	202	14.347	14.347	(1.133)	776583	20.0000	20.56
129 Atrazine	200	12.287	12.287	(0.971)	165032	20.0000	21.92
* 132 Chrysene-d12	240	16.850	16.850	(1.000)	1073001	40.0000	
133 Benzidine	184	14.551	14.551	(0.864)	289406	20.0000	21.25
134 Pyrene	202	14.707	14.707	(0.873)	825927	20.0000	21.19
$ 135 Terphenyl-d14	244	14.960	14.960	(0.888)	415930	20.0000	19.16
136 Butylbenzylphthalate	149	15.819	15.819	(0.939)	526107	20.0000	20.01
137 3,3'-Dichlorobenzidine	252	16.794	16.794	(0.997)	197538	20.0000	20.13
138 Benzo(a)anthracene	228	16.822	16.822	(0.998)	645936	20.0000	19.88
139 Chrysene	228	16.897	16.897	(1.003)	624272	20.0000	19.91
140 Bis(2-ethylhexyl)phthalate	149	16.934	16.934	(1.005)	725375	20.0000	19.85
* 154 Perylene-d12	264	19.595	19.595	(1.000)	970223	40.0000	
155 Di-n-octylphthalate	149	18.217	18.217	(0.930)	1095320	20.0000	19.11
156 Benzo(b)fluoranthene	252	18.873	18.873	(0.963)	583502	20.0000	20.09
157 Benzo(k)fluoranthene	252	18.931	18.931	(0.966)	580603	20.0000	19.63
158 Benzo(a)pyrene	252	19.479	19.479	(0.994)	562817	20.0000	21.45
159 Indeno(1,2,3-cd)pyrene	276	21.879	21.879	(1.117)	374240	20.0000	19.83
160 Dibenz(a,h)anthracene	278	21.946	21.946	(1.120)	353232	20.0000	18.68
161 Benzo(g,h,i)perylene	276	22.545	22.545	(1.151)	401118	20.0000	20.45

QC Flag Legend

M - Compound response manually integrated.

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Operator: MEC

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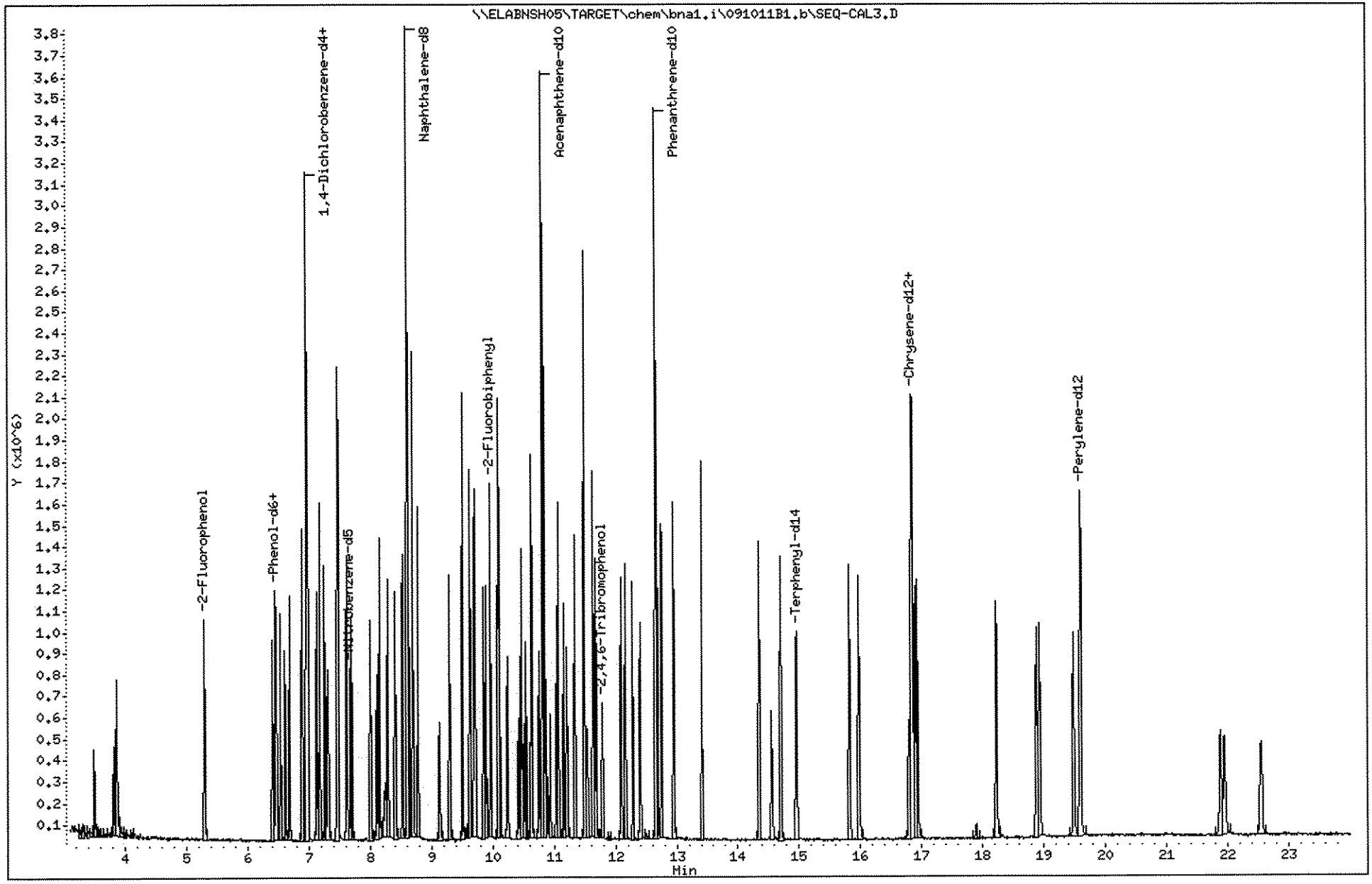

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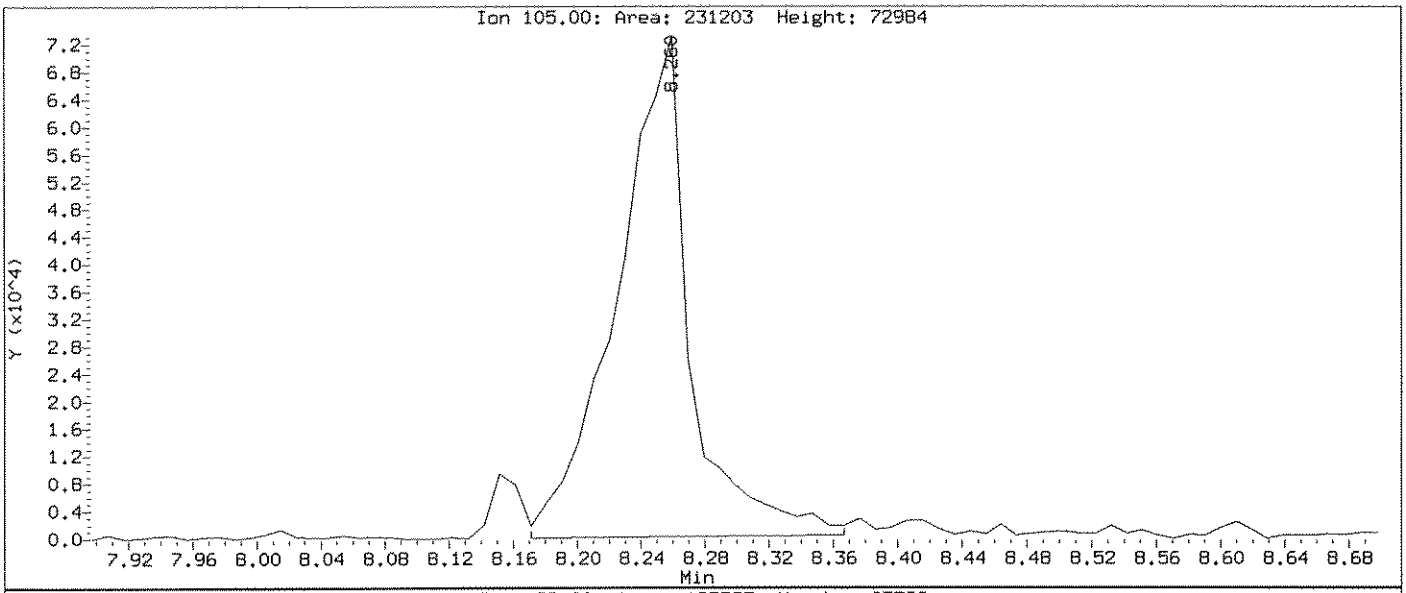
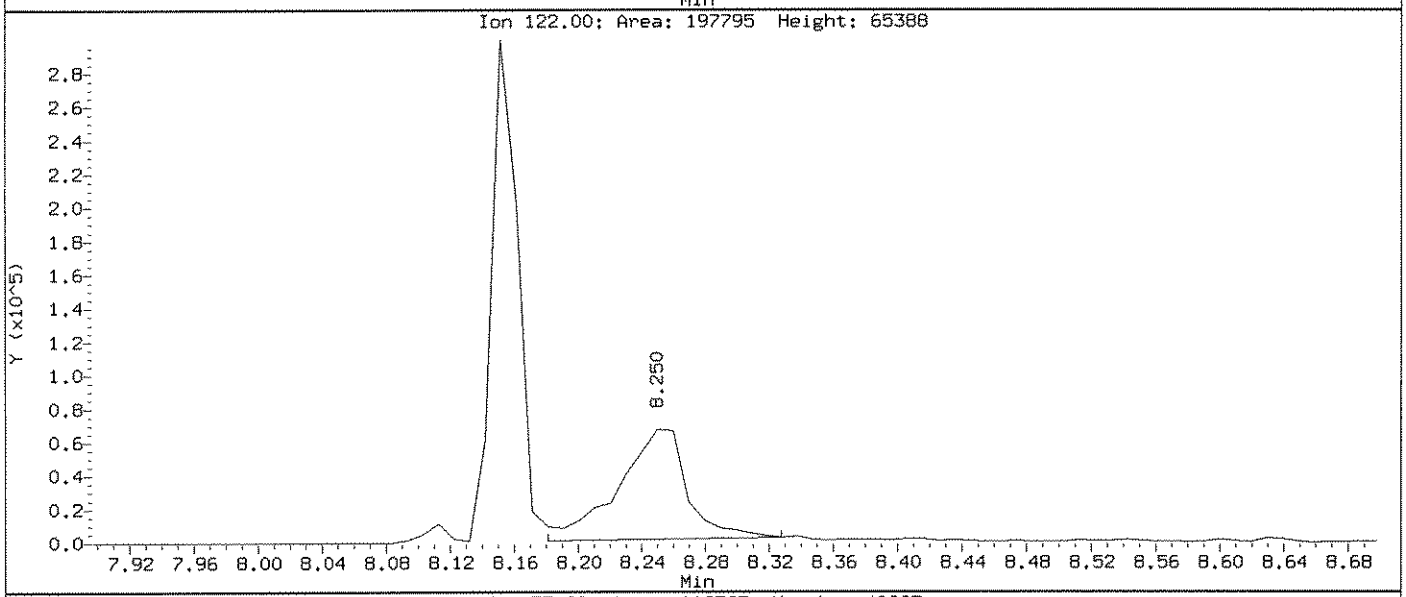
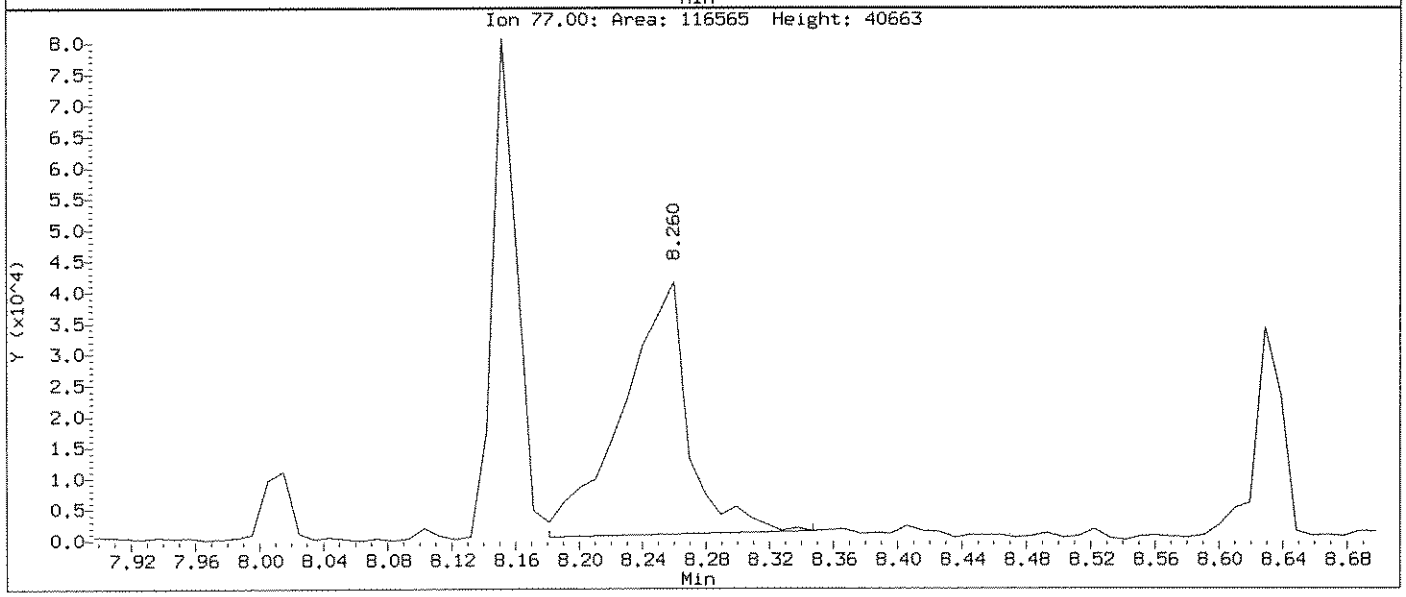
Injection Date: 10-SEP-2011 18:03
Instrument: bna1.i
Client Sample ID: CAL20.0PPM

Compound: Benzoic acid
CAS Number: 65-85-0







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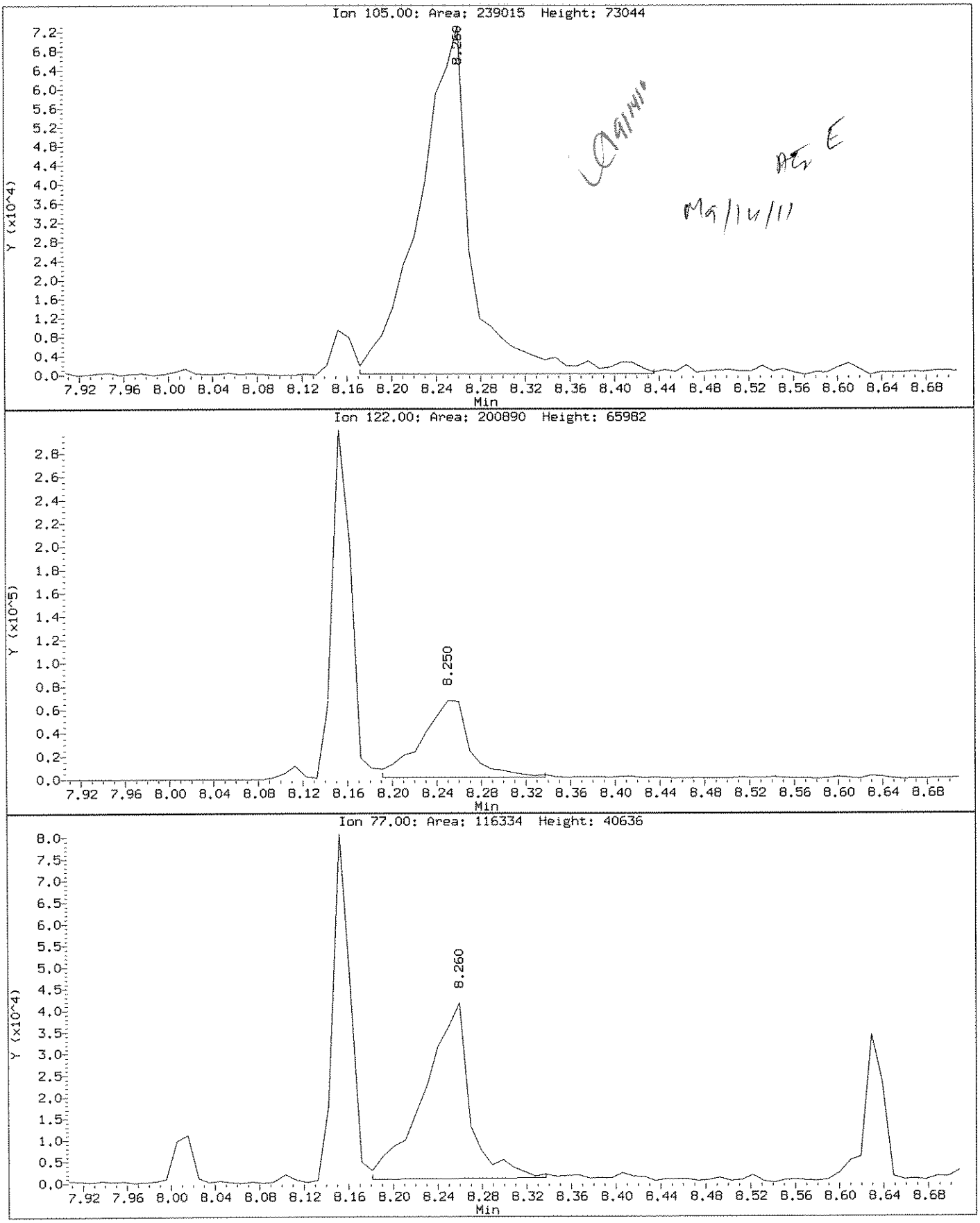
Injection Date: 10-SEP-2011 18:03
Instrument: bna1.i
Client Sample ID: CAL20.0PPM

Compound: Benzoic acid
CAS Number: 65-85-0



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Report Date: 14-Sep-2011 06:40

Laboratory Name

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Lab Smp Id: SEQ-CAL4 Client Smp ID: CAL40.0PPM
Inj Date : 10-SEP-2011 18:37 MS Autotune Date: 09-SEP-2011 09:38
Operator : MEC Inst ID: bna1.i
Smp Info : CAL40.0PPM;;;;;;
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Meth Date : 14-Sep-2011 06:40 amonteiro Quant Type: ISTD
Cal Date : 10-SEP-2011 16:55 Cal File: SEQ-CAL1.D
Als bottle: 5 Calibration Sample, Level: 4
Dil Factor: 1.00000
Integrator: HP RTE Compound Sublist: ppbnax.sub
Target Version: 4.04
Processing Host: TARGET02_VM

MA 9/14/11

Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	AMOUNTS CAL-AMT (ng/ul)	AMOUNTS ON-COL (ng/ul)
* 1 1,4-Dichlorobenzene-d4	152	6.972	6.972	(1.000)	644422	40.0000	
$ 2 2-Fluorophenol	112	5.302	5.302	(0.760)	896693	40.0000	40.80
$ 3 Phenol-d6	99	6.464	6.464	(0.927)	1071696	40.0000	42.08
4 Pyridine	79	3.856	3.856	(0.553)	812430	40.0000	41.53
5 1,4-Dioxane	88	3.495	3.495	(0.501)	336184	40.0000	38.74
6 N-Nitroso-di-methylamine	42	3.807	3.807	(0.546)	401197	40.0000	41.82
7 Aniline	93	6.542	6.542	(0.938)	1070127	40.0000	39.51
10 Phenol	94	6.484	6.484	(0.930)	975259	40.0000	41.10
11 bis(2-Chloroethyl)ether	93	6.621	6.621	(0.950)	807645	40.0000	39.04
12 2-Chlorophenol	128	6.688	6.688	(0.959)	916878	40.0000	38.77
13 1,3-Dichlorobenzene	146	6.894	6.894	(0.989)	997921	40.0000	38.99
14 1,4-Dichlorobenzene	146	6.992	6.992	(1.003)	1033993	40.0000	40.61
15 Benzyl alcohol	108	7.139	7.139	(1.024)	484057	40.0000	38.28
16 1,2-Dichlorobenzene	146	7.187	7.187	(1.031)	1011942	40.0000	40.06
17 2-Methylphenol	108	7.266	7.266	(1.042)	709714	40.0000	39.70
18 2,2'-Oxybis-1-chloropropane	45	7.315	7.315	(1.049)	1161109	40.0000	40.37
19 3-Methylphenol	108	7.471	7.471	(1.072)	650921	40.0000	38.19
20 4-Methylphenol	108	7.471	7.471	(1.072)	650921	40.0000	38.19
196 3-Methylphenol/4-Methylphenol	108	7.471	7.471	(1.072)	650921	40.0000	38.19
21 N-Nitroso-di-n-propylamine	70	7.491	7.491	(1.074)	365159	40.0000	36.04
22 Hexachloroethane	117	7.618	7.618	(1.093)	451370	40.0000	38.74
32 Benzaldehyde	106	6.416	6.416	(0.920)	516325	40.0000	39.69
* 33 Naphthalene-d8	136	8.607	8.607	(1.000)	2151545	40.0000	
$ 34 Nitrobenzene-d5	82	7.686	7.686	(0.893)	712035	40.0000	42.24
35 Nitrobenzene	77	7.706	7.706	(0.895)	668399	40.0000	42.83
39 Isophorone	82	8.019	8.019	(0.932)	1162991	40.0000	37.73

9/14/11

Data File: \\ELABNSH05\TARGET\chem\bna1.i\091011B1.b\SEQ-CAL4.D
Report Date: 14-Sep-2011 06:40

Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	AMOUNTS CAL-AMT (ng/ul)	AMOUNTS ON-COL (ng/ul)
40 2-Nitrophenol	139	8.117	8.117	(0.943)	520535	40.0000	41.78
42 2,4-Dimethylphenol	107	8.156	8.156	(0.948)	682214	40.0000	39.14
43 Benzoic acid	105	8.293	8.293	(0.964)	545916	40.0000	39.58(M)
44 bis(2-Chloroethoxy)methane	93	8.293	8.293	(0.964)	911159	40.0000	41.62
47 2,4-Dichlorophenol	162	8.421	8.421	(0.978)	683037	40.0000	40.07
62 2,6-Dichlorophenol	162	8.705	8.705	(1.011)	661915	40.0000	41.15
50 1,2,4-Trichlorobenzene	180	8.529	8.529	(0.991)	651519	40.0000	38.70
51 Naphthalene	128	8.637	8.637	(1.003)	2427997	40.0000	41.16
52 4-Chloroaniline	127	8.705	8.705	(1.011)	949893	40.0000	41.45
53 Hexachlorobutadiene	225	8.783	8.783	(1.020)	440826	40.0000	41.90
54 4-Chloro-3-methylphenol	107	9.310	9.310	(1.082)	561695	40.0000	40.26
55 2-Methylnaphthalene	141	9.515	9.515	(1.105)	1068167	40.0000	40.39
56 1-Methylnaphthalene	141	9.633	9.633	(1.119)	981882	40.0000	39.19
57 Acetophenone	105	7.491	7.491	(1.074)	912234	40.0000	34.60
67 1,2,4,5-Tetrachlorobenzene	216	9.719	9.719	(1.129)	594583	40.0000	40.29
68 Caprolactam	113	9.164	9.164	(1.065)	234140	40.0000	38.57
* 69 Acenaphthene-d10	164	10.820	10.820	(1.000)	962798	40.0000	
70 Hexachlorocyclopentadiene	237	9.710	9.710	(0.897)	358143	40.0000	42.21
71 2,4,6-Trichlorophenol	196	9.864	9.864	(0.912)	445426	40.0000	45.42
72 2,4,5-Trichlorophenol	196	9.903	9.903	(0.915)	429183	40.0000	43.34
73 2-Chloronaphthalene	162	10.128	10.128	(0.936)	1226987	40.0000	40.69
$ 74 2-Fluorobiphenyl	172	9.971	9.971	(0.922)	1256740	40.0000	39.12
75 2-Nitroaniline	65	10.244	10.244	(0.947)	276693	40.0000	41.28
76 Dimethylphthalate	163	10.479	10.479	(0.968)	1354596	40.0000	39.98
77 Acenaphthylene	152	10.645	10.645	(0.984)	1716921	40.0000	39.33
78 2,6-Dinitrotoluene	165	10.556	10.556	(0.976)	344850	40.0000	37.37
79 3-Nitroaniline	138	10.762	10.762	(0.995)	430813	40.0000	39.02
80 Acenaphthene	153	10.860	10.860	(1.004)	1243015	40.0000	42.33
81 2,4-Dinitrophenol	184	10.888	10.888	(1.006)	218611	40.0000	41.92
83 4-Nitrophenol	65	10.947	10.947	(1.012)	167335	40.0000	44.05
84 Dibenzofuran	168	11.073	11.073	(1.023)	1560512	40.0000	41.92
85 2,4-Dinitrotoluene	165	11.054	11.054	(1.022)	461655	40.0000	41.22
86 Diethylphthalate	149	11.344	11.344	(1.048)	1457982	40.0000	41.37
87 4-Chlorophenyl-phenylether	204	11.490	11.490	(1.062)	535622	40.0000	43.39
88 Fluorene	166	11.500	11.500	(1.063)	1229448	40.0000	43.52
89 4-Nitroaniline	138	11.519	11.519	(1.065)	438525	40.0000	41.93
96 2,3,4,6-Tetrachlorophenol	232	11.160	11.160	(1.031)	344191	40.0000	42.29
100 1,1'-Biphenyl	154	10.098	10.098	(0.933)	1515599	40.0000	42.40
* 102 Phenanthrene-d10	188	12.662	12.662	(1.000)	1465554	40.0000	
103 1,2-Diphenylhydrazine	77	11.685	11.685	(0.923)	1087233	40.0000	39.46
104 Carbazole	167	12.954	12.954	(1.023)	1461349	40.0000	38.06
105 4,6-Dinitro-2-methylphenol	198	11.548	11.548	(0.912)	292695	40.0000	40.96
106 N-Nitrosodiphenylamine	169	11.637	11.637	(0.919)	899993	40.0000	38.24
$ 107 2,4,6-Tribromophenol	330	11.792	11.792	(0.931)	239534	40.0000	42.78
108 4-Bromophenyl-phenylether	248	12.093	12.093	(0.955)	307090	40.0000	38.29
109 Hexachlorobenzene	284	12.170	12.170	(0.961)	362858	40.0000	38.36
110 Pentachlorophenol	266	12.409	12.409	(0.980)	286804	40.0000	41.90

Data File: \\ELABNSH05\TARGET\chem\bna1.i\091011B1.b\SEQ-CAL4.D
Report Date: 14-Sep-2011 06:40

Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	AMOUNTS CAL-AMT (ng/ul)	AMOUNTS ON-COL (ng/ul)
111 Phenanthrene	178	12.691	12.691	(1.002)	1526513	40.0000	39.31
112 Anthracene	178	12.749	12.749	(1.007)	1528158	40.0000	39.32
115 Di-n-butylphthalate	149	13.415	13.415	(1.059)	2290654	40.0000	40.66
116 Fluoranthene	202	14.344	14.344	(1.133)	1454853	40.0000	39.25
129 Atrazine	200	12.286	12.286	(0.970)	289691	40.0000	39.21
* 132 Chrysene-d12	240	16.851	16.851	(1.000)	1028903	40.0000	
133 Benzidine	184	14.550	14.550	(0.863)	602651	40.0000	46.15
134 Pyrene	202	14.706	14.706	(0.873)	1424554	40.0000	38.12
$ 135 Terphenyl-d14	244	14.959	14.959	(0.888)	845586	40.0000	40.63
136 Butylbenzylphthalate	149	15.817	15.817	(0.939)	1049675	40.0000	41.64
137 3,3'-Dichlorobenzidine	252	16.795	16.795	(0.997)	379748	40.0000	40.36
138 Benzo(a)anthracene	228	16.832	16.832	(0.999)	1248228	40.0000	40.06
139 Chrysene	228	16.897	16.897	(1.003)	1154632	40.0000	38.40
140 Bis(2-ethylhexyl)phthalate	149	16.934	16.934	(1.005)	1472090	40.0000	42.01
* 154 Perylene-d12	264	19.591	19.591	(1.000)	763782	40.0000	
155 Di-n-octylphthalate	149	18.224	18.224	(0.930)	2161138	40.0000	42.76
156 Benzo(b)fluoranthene	252	18.881	18.881	(0.964)	984310	40.0000	43.06
157 Benzo(k)fluoranthene	252	18.937	18.937	(0.967)	956054	40.0000	41.07
158 Benzo(a)pyrene	252	19.486	19.486	(0.995)	856035	40.0000	41.45
159 Indeno(1,2,3-cd)pyrene	276	21.883	21.883	(1.117)	642698	40.0000	43.27
160 Dibenz(a,h)anthracene	278	21.948	21.948	(1.120)	647608	40.0000	43.51
161 Benzo(g,h,i)perylene	276	22.554	22.554	(1.151)	675687	40.0000	43.76

QC Flag Legend

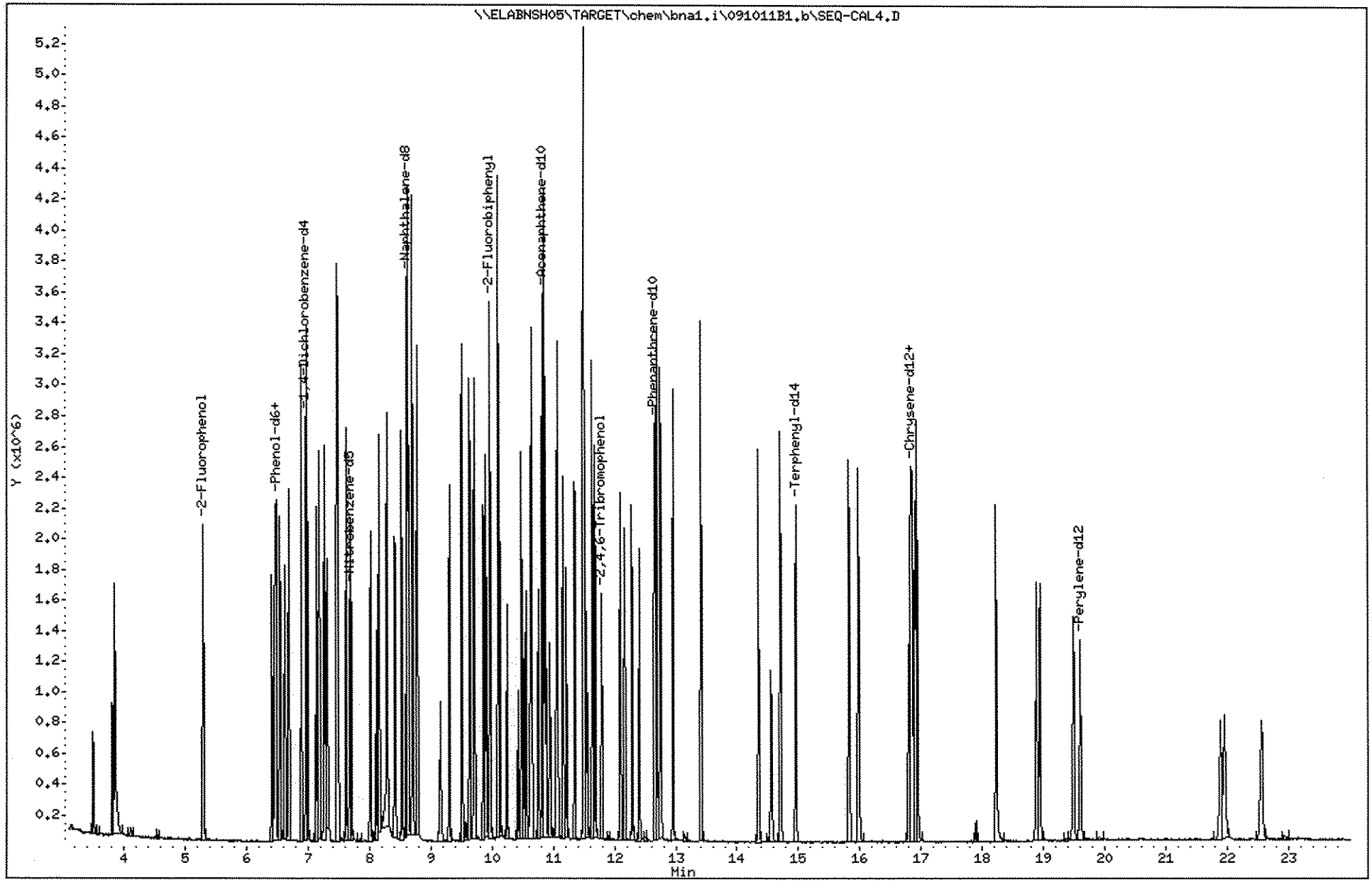
M - Compound response manually integrated.

Data File: \\ELABNSH05\TARGET\chem\bna1.i\091011B1.b\SEQ-CAL4.D
Date : 10-SEP-2011 18:37
Client ID: CAL40.0PPM
Sample Info: CAL40.0PPM;;;;;;

Instrument: bna1.i

Operator: MEC
Column diameter: 0.25

Column phase: fused silica



434

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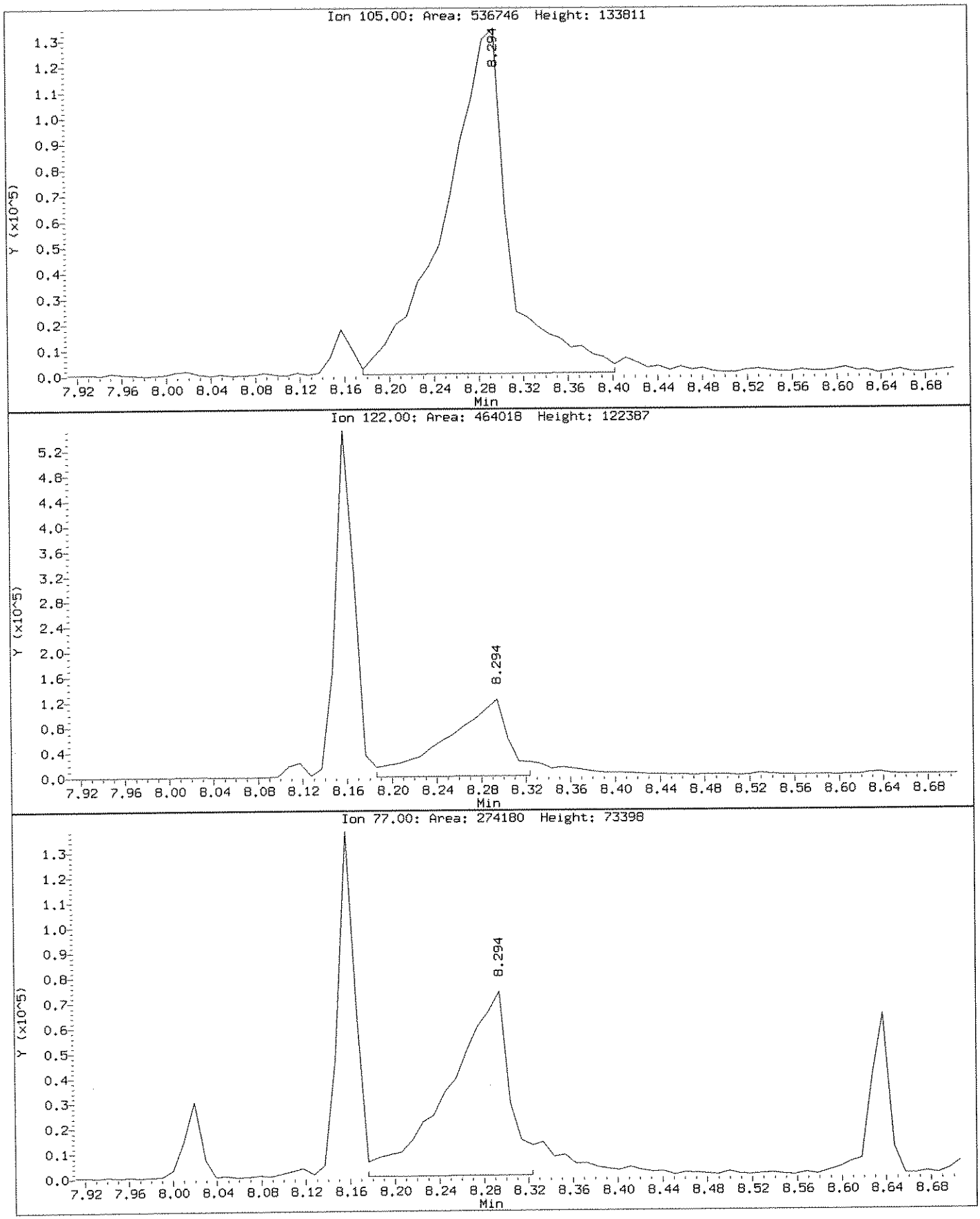
Data File: \\ELABNSH05\TARGET\chem\bna1.i\091011B1.b\SEQ-CAL4.D
Injection Date: 10-SEP-2011 18:37
Instrument: bna1.i
Client Sample ID: CAL40.0PPM

Compound: Benzoic acid
CAS Number: 65-85-0



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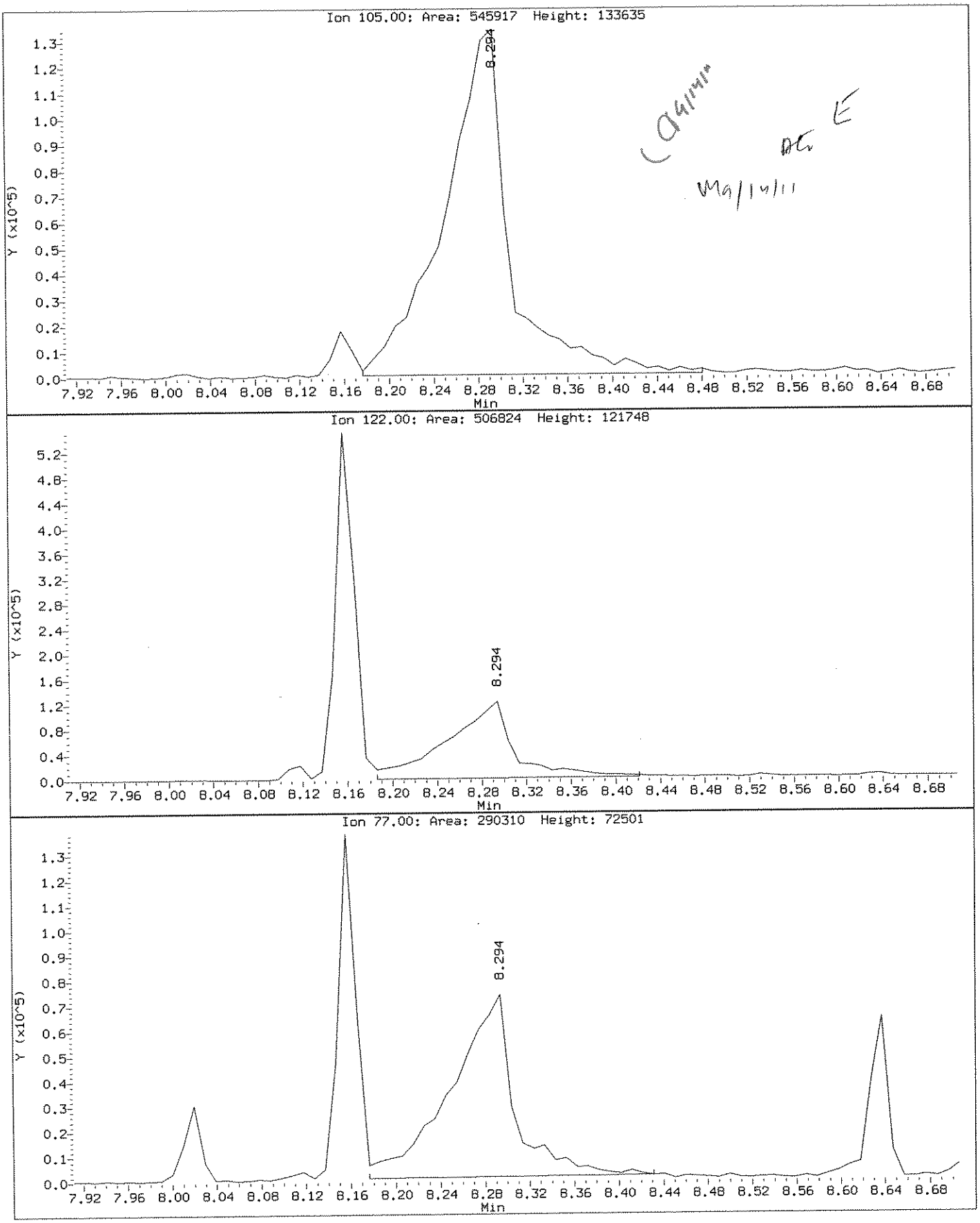
Injection Date: 10-SEP-2011 18:37
Instrument: bna1.i
Client Sample ID: CAL40.0PPM

Compound: Benzoic acid
CAS Number: 65-85-0



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Report Date: 14-Sep-2011 06:40

Laboratory Name

Data file : \\ELABNSH05\TARGET\chem\bna1.i\091011B1.b\SEQ-CAL5.D
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Inj Date : 10-SEP-2011 19:11 MS Autotune Date: 09-SEP-2011 09:38
Operator : MEC Inst ID: bna1.i
Smp Info : CAL50.0PPM;;;;;;
Misc Info : ;1;;;5;;ppbnax.sub;
Comment :
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Meth Date : 14-Sep-2011 06:40 amonteiro Quant Type: ISTD
Cal Date : 10-SEP-2011 16:55 Cal File: SEQ-CAL1.D
Als bottle: 6 Calibration Sample, Level: 5
Dil Factor: 1.00000
Integrator: HP RTE Compound Sublist: ppbnax.sub
Target Version: 4.04
Processing Host: TARGET02_VM

Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	AMOUNTS CAL-AMT (ng/ul)	AMOUNTS ON-COL (ng/ul)
* 1 1,4-Dichlorobenzene-d4	152	6.965	6.965	(1.000)	570303	40.0000	
$ 2 2-Fluorophenol	112	5.303	5.303	(0.761)	1020359	50.0000	52.46
$ 3 Phenol-d6	99	6.466	6.466	(0.928)	1178229	50.0000	52.27
4 Pyridine	79	3.858	3.858	(0.554)	871756	50.0000	50.35
5 1,4-Dioxane	88	3.505	3.505	(0.503)	351817	50.0000	45.81
6 N-Nitroso-di-methylamine	42	3.818	3.818	(0.548)	463205	50.0000	54.55
7 Aniline	93	6.545	6.545	(0.940)	1246936	50.0000	52.02
10 Phenol	94	6.486	6.486	(0.931)	1104404	50.0000	52.59
11 bis(2-Chloroethyl)ether	93	6.623	6.623	(0.951)	925884	50.0000	50.57
12 2-Chlorophenol	128	6.691	6.691	(0.961)	1109494	50.0000	53.01
13 1,3-Dichlorobenzene	146	6.897	6.897	(0.990)	1205297	50.0000	53.21
14 1,4-Dichlorobenzene	146	6.995	6.995	(1.004)	1177141	50.0000	52.24
15 Benzyl alcohol	108	7.142	7.142	(1.025)	574310	50.0000	51.32
16 1,2-Dichlorobenzene	146	7.181	7.181	(1.031)	1051111	50.0000	47.02
17 2-Methylphenol	108	7.269	7.269	(1.044)	869590	50.0000	54.96
18 2,2'-Oxybis-1-chloropropane	45	7.318	7.318	(1.051)	1354662	50.0000	53.22
19 3-Methylphenol	108	7.474	7.474	(1.073)	744387	50.0000	49.34
20 4-Methylphenol	108	7.474	7.474	(1.073)	744387	50.0000	49.34
196 3-Methylphenol/4-Methylphenol	108	7.474	7.474	(1.073)	744387	50.0000	49.34
21 N-Nitroso-di-n-propylamine	70	7.494	7.494	(1.076)	483059	50.0000	53.87
22 Hexachloroethane	117	7.621	7.621	(1.094)	540977	50.0000	52.46
32 Benzaldehyde	106	6.417	6.417	(0.921)	584111	50.0000	50.74
* 33 Naphthalene-d8	136	8.609	8.609	(1.000)	2038982	40.0000	
$ 34 Nitrobenzene-d5	82	7.680	7.680	(0.892)	798709	50.0000	50.00
35 Nitrobenzene	77	7.710	7.710	(0.896)	727264	50.0000	49.17
39 Isophorone	82	8.022	8.022	(0.932)	1456134	50.0000	49.84

Data File: \\ELABNSH05\TARGET\chem\bna1.i\091011B1.b\SEQ-CAL5.D
Report Date: 14-Sep-2011 06:40

Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	AMOUNTS CAL-AMT (ng/ul)	AMOUNTS ON-COL (ng/ul)
40 2-Nitrophenol	139	8.111	8.111	(0.942)	584109	50.0000	49.48
42 2,4-Dimethylphenol	107	8.160	8.160	(0.948)	878001	50.0000	53.15
43 Benzoic acid	105	8.307	8.307	(0.965)	650705	50.0000	48.62(M)
44 bis(2-Chloroethoxy)methane	93	8.297	8.297	(0.964)	960671	50.0000	46.30
47 2,4-Dichlorophenol	162	8.415	8.415	(0.977)	740054	50.0000	45.81
62 2,6-Dichlorophenol	162	8.707	8.707	(1.011)	807322	50.0000	52.96
50 1,2,4-Trichlorobenzene	180	8.532	8.532	(0.991)	833563	50.0000	52.24
51 Naphthalene	128	8.639	8.639	(1.003)	2908988	50.0000	52.04
52 4-Chloroaniline	127	8.698	8.698	(1.010)	1074266	50.0000	49.47
53 Hexachlorobutadiene	225	8.784	8.784	(1.020)	492477	50.0000	49.40
54 4-Chloro-3-methylphenol	107	9.312	9.312	(1.082)	692059	50.0000	52.34
55 2-Methylnaphthalene	141	9.508	9.508	(1.104)	1343319	50.0000	53.59
56 1-Methylnaphthalene	141	9.635	9.635	(1.119)	1236808	50.0000	52.09
57 Acetophenone	105	7.484	7.484	(1.074)	1158454	50.0000	49.65
67 1,2,4,5-Tetrachlorobenzene	216	9.722	9.722	(1.129)	689756	50.0000	49.32
68 Caprolactam	113	9.175	9.175	(1.066)	283914	50.0000	49.35
* 69 Acenaphthene-d10	164	10.821	10.821	(1.000)	1027269	40.0000	
70 Hexachlorocyclopentadiene	237	9.703	9.703	(0.897)	424666	50.0000	46.91
71 2,4,6-Trichlorophenol	196	9.858	9.858	(0.911)	477607	50.0000	45.65
72 2,4,5-Trichlorophenol	196	9.906	9.906	(0.915)	489222	50.0000	46.30
73 2-Chloronaphthalene	162	10.128	10.128	(0.936)	1419153	50.0000	44.11
$ 74 2-Fluorobiphenyl	172	9.974	9.974	(0.922)	1553188	50.0000	45.32
75 2-Nitroaniline	65	10.246	10.246	(0.947)	333152	50.0000	46.58
76 Dimethylphthalate	163	10.480	10.480	(0.968)	1694467	50.0000	46.87
77 Acenaphthylene	152	10.645	10.645	(0.984)	2235670	50.0000	48.00
78 2,6-Dinitrotoluene	165	10.558	10.558	(0.976)	481312	50.0000	48.88
79 3-Nitroaniline	138	10.762	10.762	(0.995)	571061	50.0000	48.48
80 Acenaphthene	153	10.860	10.860	(1.004)	1498439	50.0000	47.82
81 2,4-Dinitrophenol	184	10.889	10.889	(1.006)	276513	50.0000	47.86
83 4-Nitrophenol	65	10.947	10.947	(1.012)	209991	50.0000	51.81
84 Dibenzofuran	168	11.074	11.074	(1.023)	1793217	50.0000	45.15
85 2,4-Dinitrotoluene	165	11.054	11.054	(1.022)	577452	50.0000	48.32
86 Diethylphthalate	149	11.352	11.352	(1.049)	1916293	50.0000	50.96
87 4-Chlorophenyl-phenylether	204	11.488	11.488	(1.062)	594618	50.0000	45.15
88 Fluorene	166	11.498	11.498	(1.063)	1345081	50.0000	44.62
89 4-Nitroaniline	138	11.518	11.518	(1.064)	567246	50.0000	50.84
96 2,3,4,6-Tetrachlorophenol	232	11.160	11.160	(1.031)	389529	50.0000	44.86
100 1,1'-Biphenyl	154	10.100	10.100	(0.933)	1721733	50.0000	45.15
* 102 Phenanthrene-d10	188	12.661	12.661	(1.000)	1513437	40.0000	
103 1,2-Diphenylhydrazine	77	11.692	11.692	(0.923)	1411321	50.0000	49.60
104 Carbazole	167	12.953	12.953	(1.023)	1940111	50.0000	48.93
105 4,6-Dinitro-2-methylphenol	198	11.556	11.556	(0.913)	353659	50.0000	47.32
106 N-Nitrosodiphenylamine	169	11.644	11.644	(0.920)	1167201	50.0000	48.02
$ 107 2,4,6-Tribromophenol	330	11.789	11.789	(0.931)	291143	50.0000	50.35
108 4-Bromophenyl-phenylether	248	12.101	12.101	(0.956)	403233	50.0000	48.69
109 Hexachlorobenzene	284	12.168	12.168	(0.961)	478733	50.0000	49.01
110 Pentachlorophenol	266	12.409	12.409	(0.980)	364359	50.0000	51.54

Data File: \\ELABNSH05\TARGET\chem\bna1.i\091011B1.b\SEQ-CAL5.D
Report Date: 14-Sep-2011 06:40

Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	AMOUNTS CAL-AMT (ng/ul)	AMOUNTS ON-COL (ng/ul)
111 Phenanthrene	178	12.690	12.690	(1.002)	1768624	50.0000	44.10
112 Anthracene	178	12.757	12.757	(1.008)	1859596	50.0000	46.34
115 Di-n-butylphthalate	149	13.412	13.412	(1.059)	2902500	50.0000	49.89
116 Fluoranthene	202	14.350	14.350	(1.133)	1828318	50.0000	47.77
129 Atrazine	200	12.294	12.294	(0.971)	347561	50.0000	45.56
* 132 Chrysene-d12	240	16.856	16.856	(1.000)	1160133	40.0000	
133 Benzidine	184	14.554	14.554	(0.863)	742119	50.0000	50.41
134 Pyrene	202	14.710	14.710	(0.873)	2068199	50.0000	49.08
$ 135 Terphenyl-d14	244	14.964	14.964	(0.888)	1060003	50.0000	45.17
136 Butylbenzylphthalate	149	15.823	15.823	(0.939)	1369338	50.0000	48.17
137 3,3'-Dichlorobenzidine	252	16.800	16.800	(0.997)	580819	50.0000	54.75
138 Benzo(a)anthracene	228	16.828	16.828	(0.998)	1811983	50.0000	51.58
139 Chrysene	228	16.902	16.902	(1.003)	1632300	50.0000	48.14
140 Bis(2-ethylhexyl)phthalate	149	16.930	16.930	(1.004)	1941576	50.0000	49.14
* 154 Perylene-d12	264	19.594	19.594	(1.000)	1001248	40.0000	
155 Di-n-octylphthalate	149	18.221	18.221	(0.930)	3166250	50.0000	47.39
156 Benzo(b)fluoranthene	252	18.885	18.885	(0.964)	1536891	50.0000	51.29
157 Benzo(k)fluoranthene	252	18.941	18.941	(0.967)	1549996	50.0000	50.79
158 Benzo(a)pyrene	252	19.488	19.488	(0.995)	1371286	50.0000	50.65
159 Indeno(1,2,3-cd)pyrene	276	21.896	21.896	(1.117)	1063953	50.0000	54.64
160 Dibenz(a,h)anthracene	278	21.960	21.960	(1.121)	1098023	50.0000	56.27
161 Benzo(g,h,i)perylene	276	22.564	22.564	(1.152)	1068954	50.0000	52.81

QC Flag Legend

M - Compound response manually integrated.

Data File: \\ELABNSH05\TARGET\chem\bna1.i\091011B1.b\SEQ-CAL5.D
Date : 10-SEP-2011 19:11
Client ID: CAL50.0PPM
Sample Info: CAL50.0PPM;;;;;;

Instrument: bna1.i

Operator: MEC

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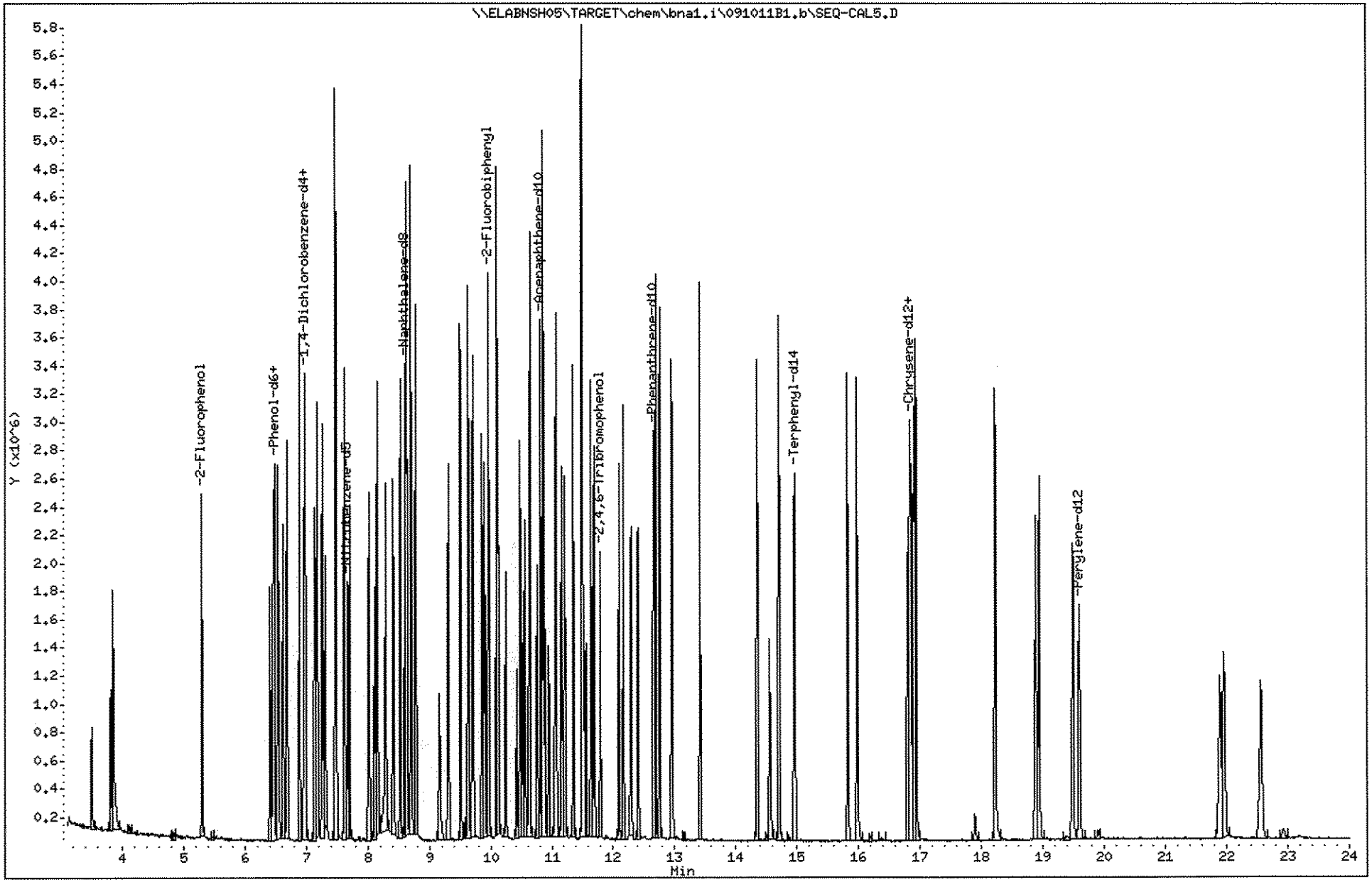
Column diameter: 0.25



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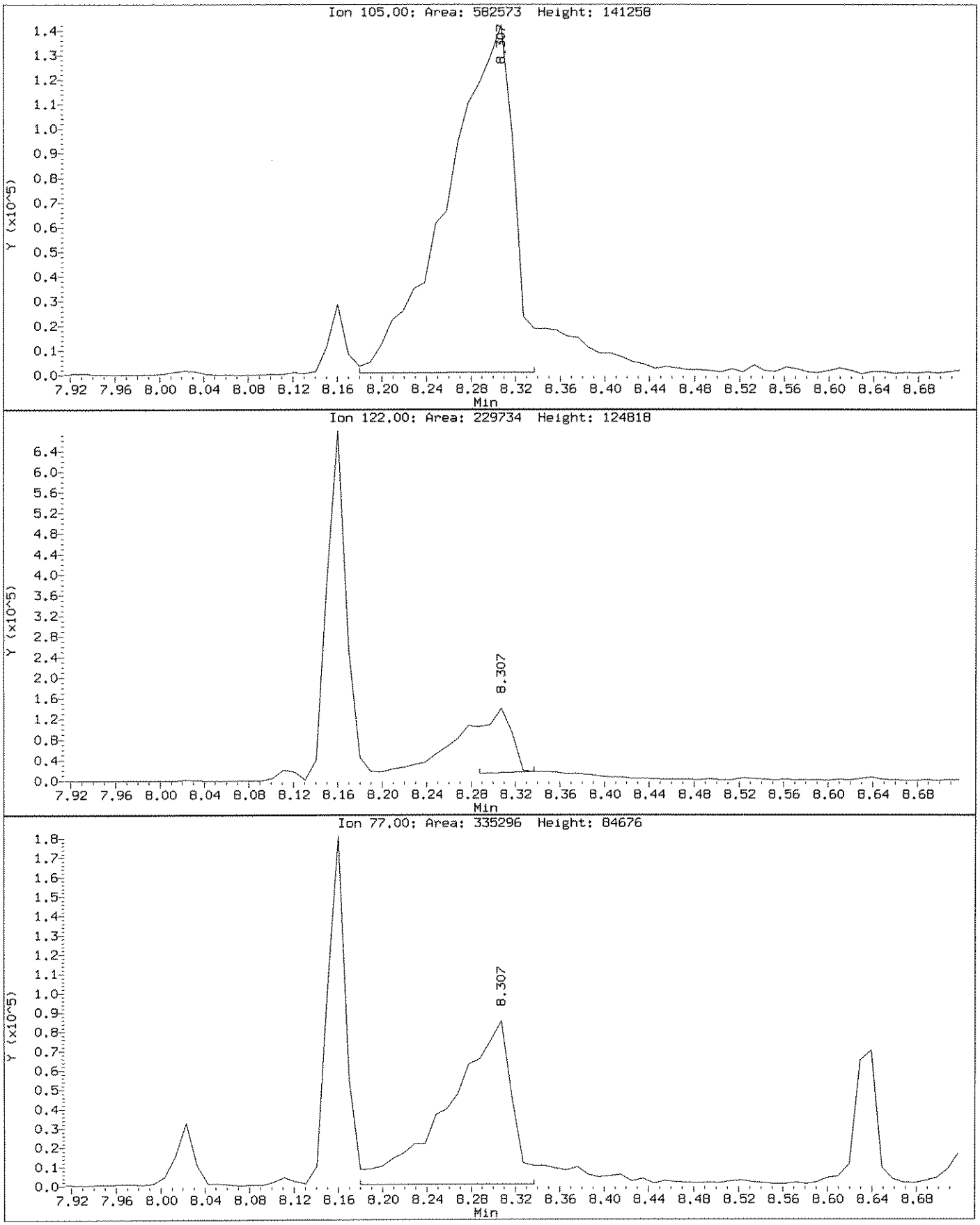
1110003

Data File: \\ELABNSHO5\TARGET\chem\bna1.i\091011B1.b\SEQ-CAL5.D
Injection Date: 10-SEP-2011 19:11
Instrument: bna1.i
Client Sample ID: CAL50.0PPM

Compound: Benzoic acid
CAS Number: 65-85-0



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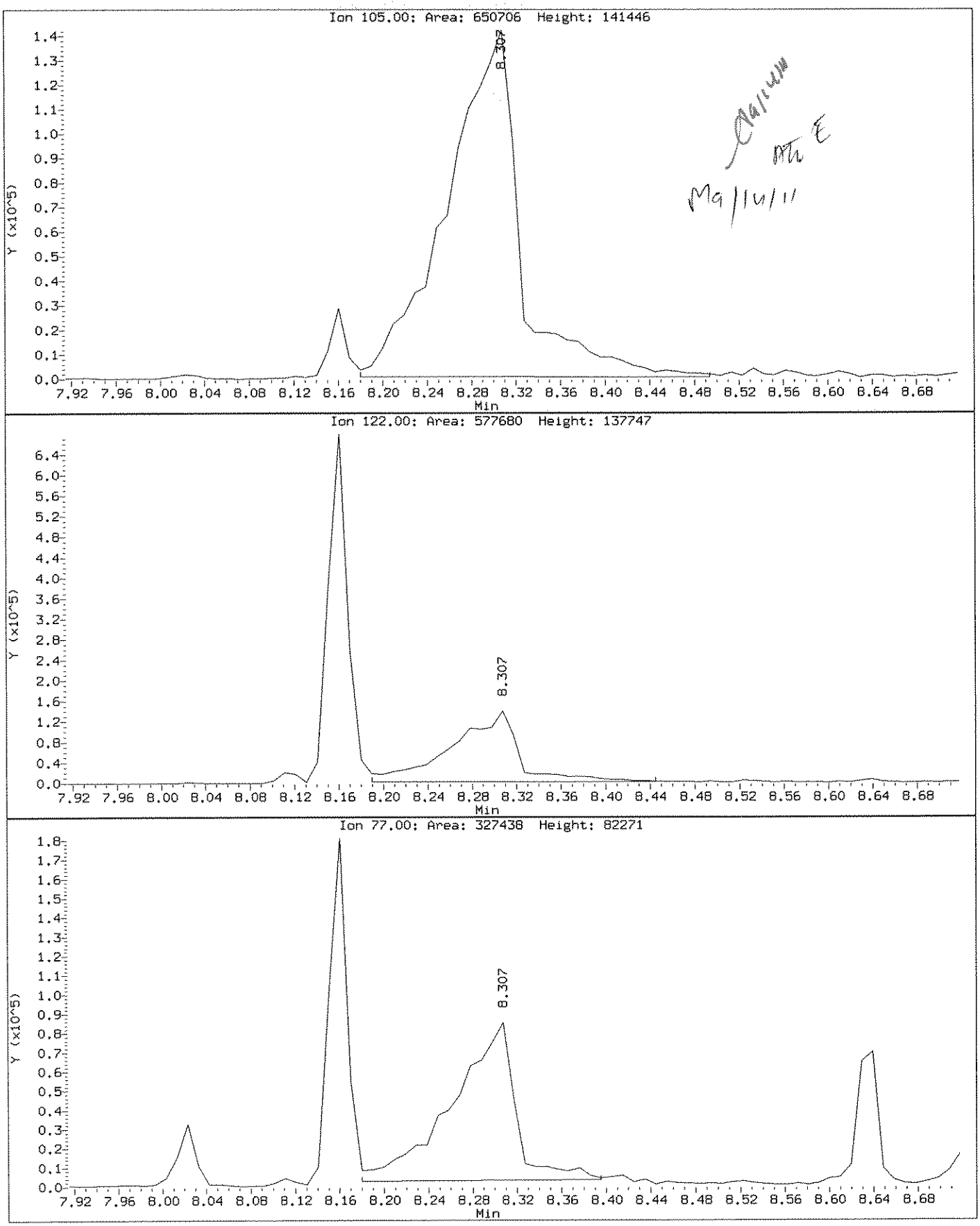
Injection Date: 10-SEP-2011 19:11
Instrument: bna1.i
Client Sample ID: CAL50.0PPM

Compound: Benzoic acid
CAS Number: 65-85-0



Data File: \\ELABNSH05\TARGET\chem\bna1.i\091011B1.b\SEQ-CAL6.D
Report Date: 14-Sep-2011 06:40

Laboratory Name

Data file : \\ELABNSH05\TARGET\chem\bna1.i\091011B1.b\SEQ-CAL6.D
Lab Smp Id: SEQ-CAL6 Client Smp ID: CAL60.0PPM
Inj Date : 10-SEP-2011 19:45 MS Autotune Date: 09-SEP-2011 09:38
Operator : MEC Inst ID: bna1.i
Smp Info : CAL60.0PPM;;;;;;
Misc Info : ;1;;;6;;ppbnax.sub;
Comment :
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Meth Date : 14-Sep-2011 06:40 amonteiro Quant Type: ISTD
Cal Date : 10-SEP-2011 16:55 Cal File: SEQ-CAL1.D
Als bottle: 7 Calibration Sample, Level: 6
Dil Factor: 1.00000
Integrator: HP RTE Compound Sublist: ppbnax.sub
Target Version: 4.04
Processing Host: TARGET02_VM

M9/19/11

Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	AMOUNTS CAL-AMT (ng/ul)	AMOUNTS ON-COL (ng/ul)
* 1 1,4-Dichlorobenzene-d4	152	6.965	6.965	(1.000)	536202	40.0000	
$ 2 2-Fluorophenol	112	5.303	5.303	(0.761)	1104823	60.0000	60.42
$ 3 Phenol-d6	99	6.466	6.466	(0.928)	1249934	60.0000	58.98
4 Pyridine	79	3.857	3.857	(0.554)	970437	60.0000	59.62
5 1,4-Dioxane	88	3.494	3.494	(0.502)	272860	60.0000	37.79
6 N-Nitroso-di-methylamine	42	3.818	3.818	(0.548)	494025	60.0000	61.88
7 Aniline	93	6.544	6.544	(0.940)	1337995	60.0000	59.37
10 Phenol	94	6.486	6.486	(0.931)	1044733	60.0000	52.91
11 bis(2-Chloroethyl)ether	93	6.623	6.623	(0.951)	1028600	60.0000	59.75
12 2-Chlorophenol	128	6.691	6.691	(0.961)	1143689	60.0000	58.12
13 1,3-Dichlorobenzene	146	6.896	6.896	(0.990)	1268243	60.0000	59.55
14 1,4-Dichlorobenzene	146	6.994	6.994	(1.004)	1270325	60.0000	59.97
15 Benzyl alcohol	108	7.141	7.141	(1.025)	655164	60.0000	62.27
16 1,2-Dichlorobenzene	146	7.180	7.180	(1.031)	1263279	60.0000	60.10
17 2-Methylphenol	108	7.269	7.269	(1.044)	871234	60.0000	58.57
18 2,2'-Oxybis-1-chloropropane	45	7.318	7.318	(1.051)	1385539	60.0000	57.90
19 3-Methylphenol	108	7.474	7.474	(1.073)	843605	60.0000	59.48
20 4-Methylphenol	108	7.474	7.474	(1.073)	843605	60.0000	59.48
196 3-Methylphenol/4-Methylphenol	108	7.474	7.474	(1.073)	843605	60.0000	59.48
21 N-Nitroso-di-n-propylamine	70	7.494	7.494	(1.076)	508904	60.0000	60.36
22 Hexachloroethane	117	7.621	7.621	(1.094)	586559	60.0000	60.50
32 Benzaldehyde	106	6.417	6.417	(0.921)	519860	60.0000	48.03
* 33 Naphthalene-d8	136	8.609	8.609	(1.000)	1967947	40.0000	
$ 34 Nitrobenzene-d5	82	7.680	7.680	(0.892)	914818	60.0000	59.33
35 Nitrobenzene	77	7.709	7.709	(0.895)	842415	60.0000	59.02
39 Isophorone	82	8.021	8.021	(0.932)	1777793	60.0000	63.05

9/19/11

Data File: \\ELABNSH05\TARGET\chem\bna1.i\091011B1.b\SEQ-CAL6.D
Report Date: 14-Sep-2011 06:40

Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	AMOUNTS CAL-AMT (ng/ul)	AMOUNTS ON-COL (ng/ul)
40 2-Nitrophenol	139	8.119	8.119	(0.943)	660740	60.0000	57.99
42 2,4-Dimethylphenol	107	8.159	8.159	(0.948)	871288	60.0000	54.65
43 Benzoic acid	105	8.316	8.316	(0.966)	763038	60.0000	58.10(M)
44 bis(2-Chloroethoxy)methane	93	8.296	8.296	(0.964)	1166409	60.0000	58.25
47 2,4-Dichlorophenol	162	8.424	8.424	(0.978)	894172	60.0000	57.35
62 2,6-Dichlorophenol	162	8.707	8.707	(1.011)	835903	60.0000	56.81
50 1,2,4-Trichlorobenzene	180	8.532	8.532	(0.991)	848215	60.0000	55.08
51 Naphthalene	128	8.638	8.638	(1.003)	3002029	60.0000	55.64
52 4-Chloroaniline	127	8.707	8.707	(1.011)	1129348	60.0000	53.88
53 Hexachlorobutadiene	225	8.784	8.784	(1.020)	541441	60.0000	56.27
54 4-Chloro-3-methylphenol	107	9.313	9.313	(1.082)	757781	60.0000	59.38
55 2-Methylnaphthalene	141	9.509	9.509	(1.104)	1324406	60.0000	54.75
56 1-Methylnaphthalene	141	9.635	9.635	(1.119)	1319303	60.0000	57.57
57 Acetophenone	105	7.494	7.494	(1.076)	1179703	60.0000	53.77
67 1,2,4,5-Tetrachlorobenzene	216	9.722	9.722	(1.129)	779895	60.0000	57.78
68 Caprolactam	113	9.185	9.185	(1.067)	340717	60.0000	61.37
* 69 Acenaphthene-d10	164	10.823	10.823	(1.000)	860873	40.0000	
70 Hexachlorocyclopentadiene	237	9.704	9.704	(0.897)	494249	60.0000	65.15
71 2,4,6-Trichlorophenol	196	9.859	9.859	(0.911)	486689	60.0000	55.50
72 2,4,5-Trichlorophenol	196	9.907	9.907	(0.915)	552918	60.0000	62.45
73 2-Chloronaphthalene	162	10.131	10.131	(0.936)	1570153	60.0000	58.24
$ 74 2-Fluorobiphenyl	172	9.975	9.975	(0.922)	1674857	60.0000	58.31
75 2-Nitroaniline	65	10.248	10.248	(0.947)	365915	60.0000	61.06
76 Dimethylphthalate	163	10.481	10.481	(0.968)	1756281	60.0000	57.97
77 Acenaphthylene	152	10.647	10.647	(0.984)	2382070	60.0000	61.02
78 2,6-Dinitrotoluene	165	10.559	10.559	(0.976)	468921	60.0000	56.83
79 3-Nitroaniline	138	10.764	10.764	(0.995)	637952	60.0000	64.62
80 Acenaphthene	153	10.862	10.862	(1.004)	1537453	60.0000	58.55
81 2,4-Dinitrophenol	184	10.891	10.891	(1.006)	321285	60.0000	60.79
83 4-Nitrophenol	65	10.950	10.950	(1.012)	245657	60.0000	72.33
84 Dibenzofuran	168	11.076	11.076	(1.023)	2008524	60.0000	60.34
85 2,4-Dinitrotoluene	165	11.057	11.057	(1.022)	612432	60.0000	61.16
86 Diethylphthalate	149	11.356	11.356	(1.049)	1863485	60.0000	59.13
87 4-Chlorophenyl-phenylether	204	11.492	11.492	(1.062)	641279	60.0000	58.10
88 Fluorene	166	11.501	11.501	(1.063)	1463573	60.0000	57.94
89 4-Nitroaniline	138	11.530	11.530	(1.065)	575032	60.0000	61.50
96 2,3,4,6-Tetrachlorophenol	232	11.163	11.163	(1.031)	445195	60.0000	61.18
100 1,1'-Biphenyl	154	10.102	10.102	(0.933)	1734963	60.0000	54.29
* 102 Phenanthrene-d10	188	12.660	12.660	(1.000)	1272384	40.0000	
103 1,2-Diphenylhydrazine	77	11.684	11.684	(0.923)	1596832	60.0000	66.75
104 Carbazole	167	12.961	12.961	(1.024)	2162892	60.0000	64.89
105 4,6-Dinitro-2-methylphenol	198	11.558	11.558	(0.913)	389384	60.0000	60.85
106 N-Nitrosodiphenylamine	169	11.645	11.645	(0.920)	1375234	60.0000	67.30
$ 107 2,4,6-Tribromophenol	330	11.791	11.791	(0.931)	313580	60.0000	64.50
108 4-Bromophenyl-phenylether	248	12.093	12.093	(0.955)	449493	60.0000	64.55
109 Hexachlorobenzene	284	12.170	12.170	(0.961)	519971	60.0000	63.31
110 Pentachlorophenol	266	12.408	12.408	(0.980)	396538	60.0000	66.72

Data File: \\ELABNSH05\TARGET\chem\bna1.i\091011B1.b\SEQ-CAL6.D
Report Date: 14-Sep-2011 06:40

Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	AMOUNTS CAL-AMT (ng/ul)	AMOUNTS ON-COL (ng/ul)
111 Phenanthrene	178	12.688	12.688	(1.002)	2100495	60.0000	62.30
112 Anthracene	178	12.756	12.756	(1.008)	2137960	60.0000	63.36
115 Di-n-butylphthalate	149	13.410	13.410	(1.059)	3156689	60.0000	64.54
116 Fluoranthene	202	14.349	14.349	(1.133)	2093380	60.0000	65.05
129 Atrazine	200	12.294	12.294	(0.971)	343089	60.0000	53.49
* 132 Chrysene-d12	240	16.850	16.850	(1.000)	992592	40.0000	
133 Benzidine	184	14.553	14.553	(0.864)	743060	60.0000	58.99
134 Pyrene	202	14.708	14.708	(0.873)	2126154	60.0000	58.97
$ 135 Terphenyl-d14	244	14.960	14.960	(0.888)	1196524	60.0000	59.59
136 Butylbenzylphthalate	149	15.820	15.820	(0.939)	1459886	60.0000	60.02
137 3,3'-Dichlorobenzidine	252	16.795	16.795	(0.997)	597162	60.0000	65.79
138 Benzo(a)anthracene	228	16.832	16.832	(0.999)	1850111	60.0000	61.55
139 Chrysene	228	16.906	16.906	(1.003)	1811966	60.0000	62.46
140 Bis(2-ethylhexyl)phthalate	149	16.934	16.934	(1.005)	2208166	60.0000	65.32
* 154 Perylene-d12	264	19.597	19.597	(1.000)	923904	40.0000	
155 Di-n-octylphthalate	149	18.224	18.224	(0.930)	3531950	60.0000	56.57
156 Benzo(b)fluoranthene	252	18.889	18.889	(0.964)	1646713	60.0000	59.55
157 Benzo(k)fluoranthene	252	18.945	18.945	(0.967)	1590906	60.0000	56.50
158 Benzo(a)pyrene	252	19.491	19.491	(0.995)	1508720	60.0000	60.39
159 Indeno(1,2,3-cd)pyrene	276	21.898	21.898	(1.117)	1150916	60.0000	64.05
160 Dibenz(a,h)anthracene	278	21.963	21.963	(1.121)	1096441	60.0000	60.89
161 Benzo(g,h,i)perylene	276	22.576	22.576	(1.152)	1189626	60.0000	63.69

QC Flag Legend

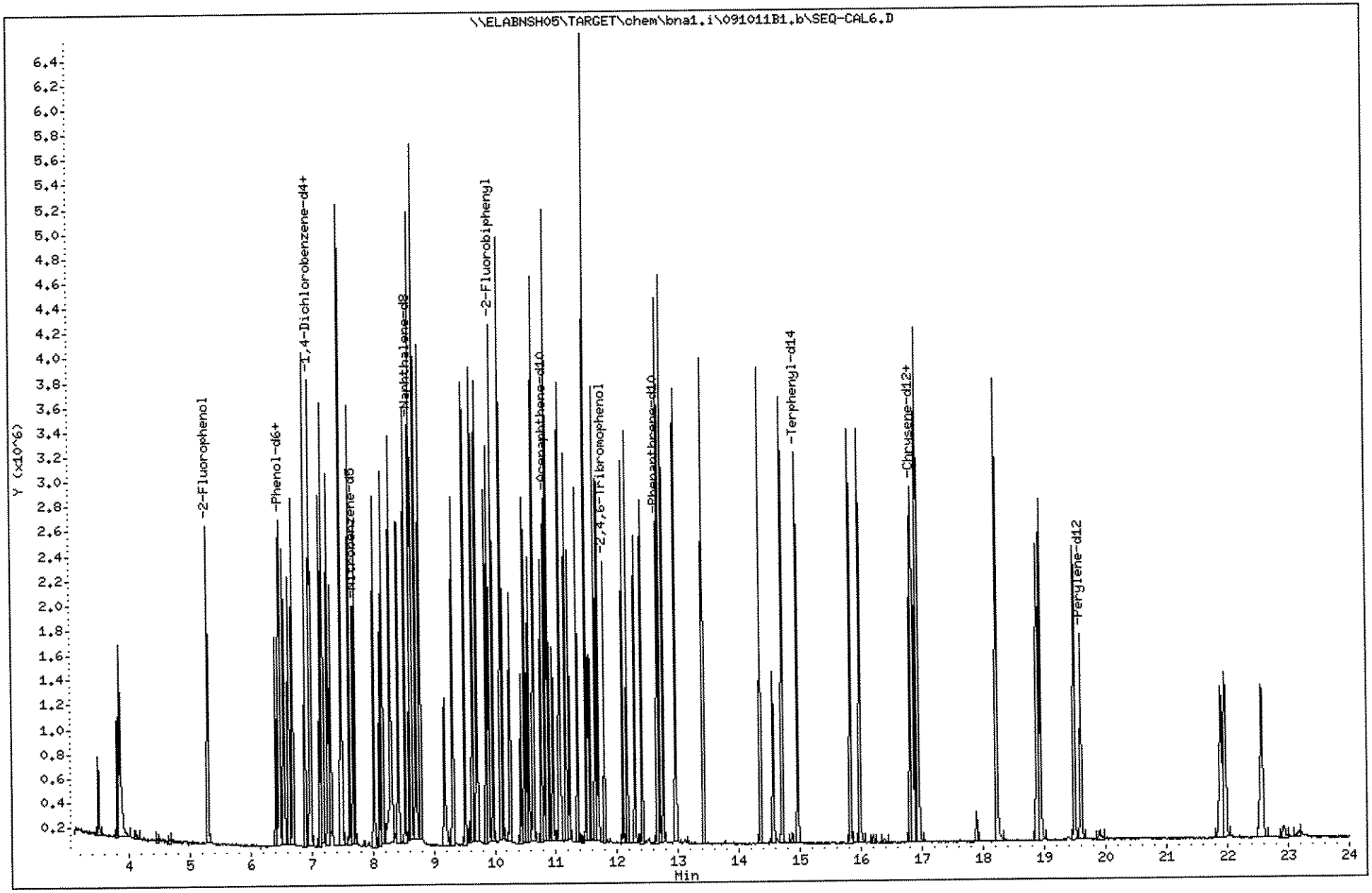
M - Compound response manually integrated.

Data File: \\ELABNSH05\TARGET\chem\bna1.i\091011B1.b\SEQ-CAL6.D
Date : 10-SEP-2011 19:45
Client ID: CAL60.0PPM
Sample Info: CAL60.0PPM;;;;;;

Instrument: bna1.i

Operator: MEC
Column diameter: 0.25

Column phase: fused silica



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1110003

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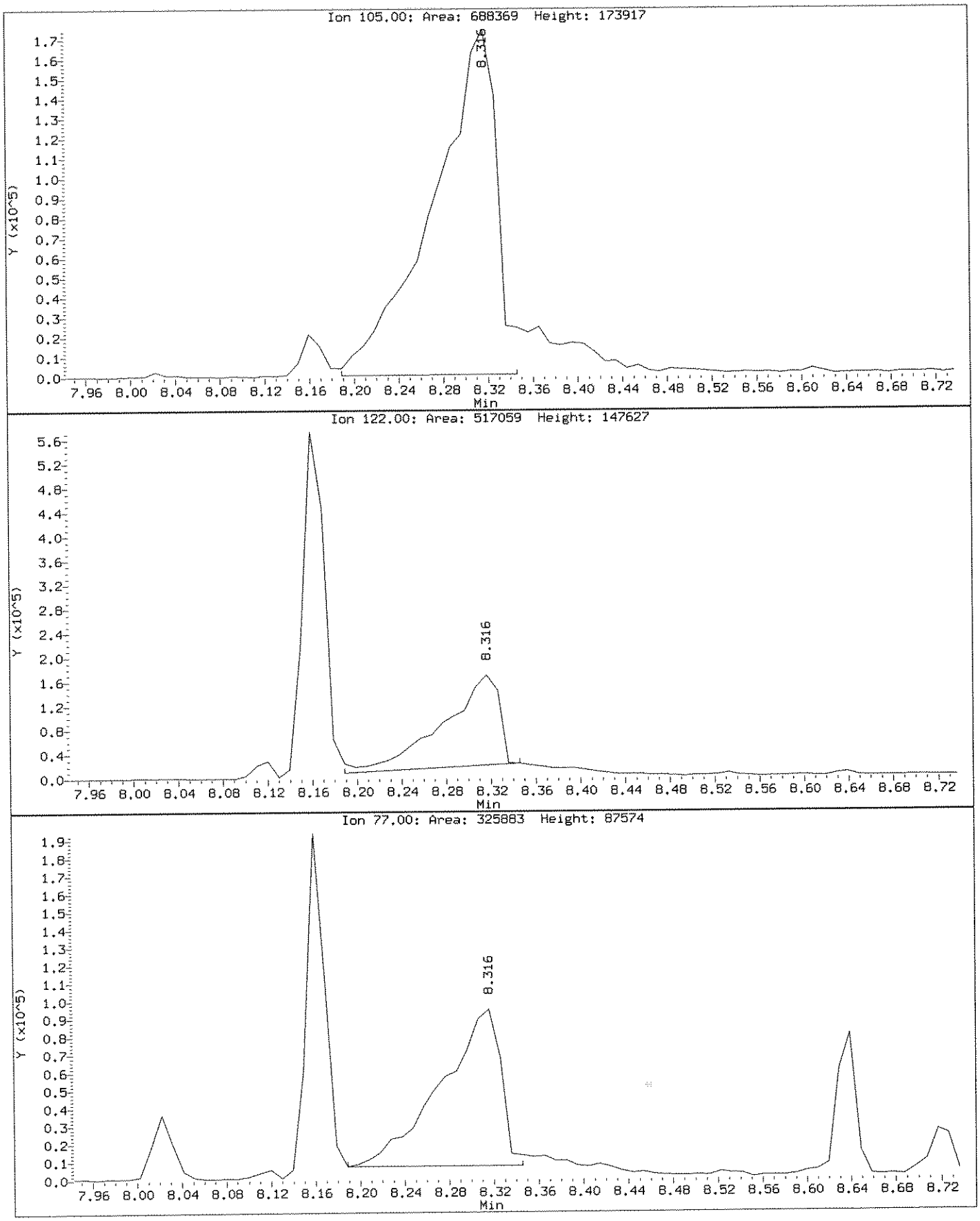
Injection Date: 10-SEP-2011 19:45
Instrument: bna1.i
Client Sample ID: CAL60.0PPM

Compound: Benzoic acid
CAS Number: 65-85-0



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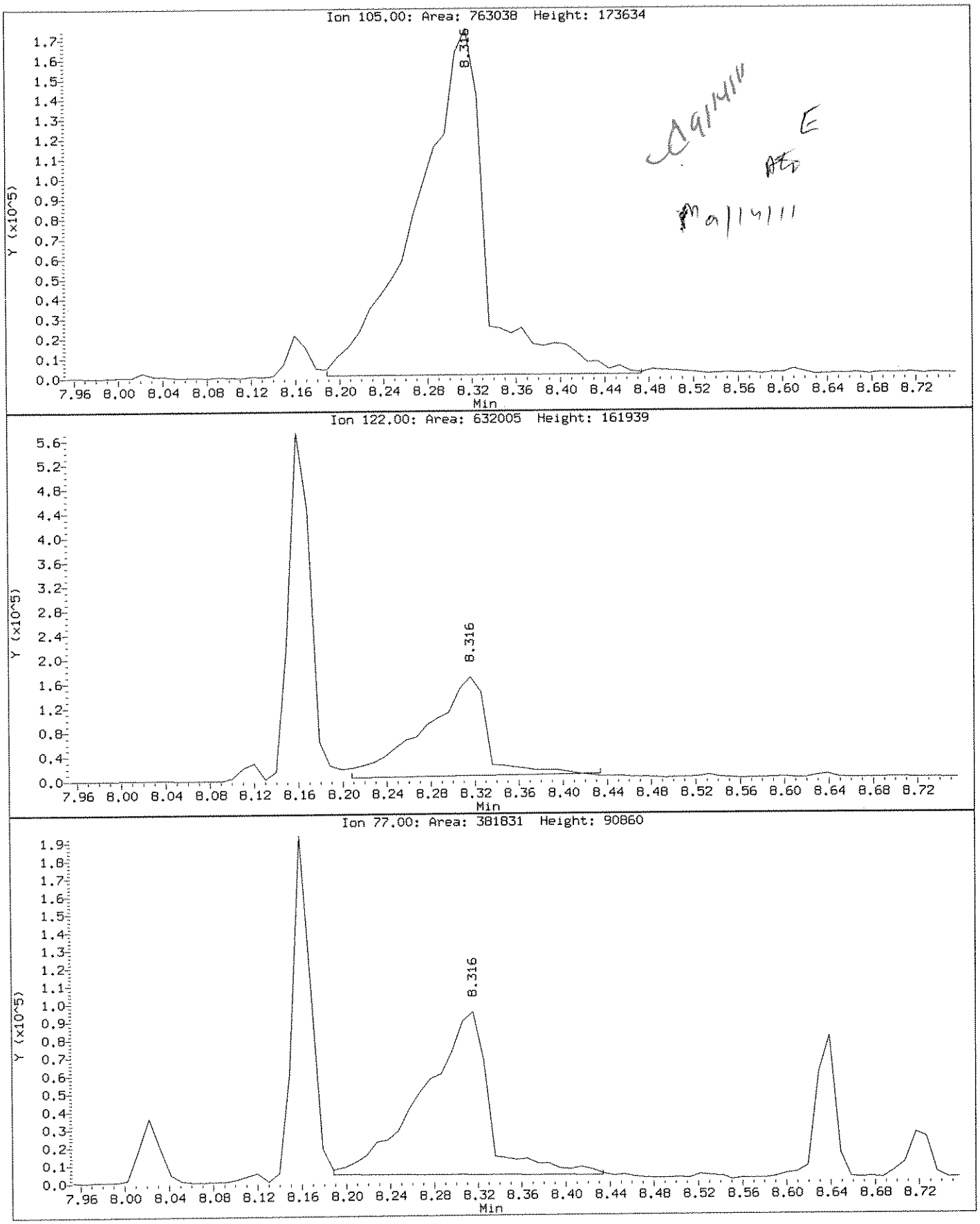
Client Sample ID: CAL60.0PPM

Compound: Benzoic acid
CAS Number: 65-85-0



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Report Date: 14-Sep-2011 06:41

Laboratory Name

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Smp Info : CAL80.0PPM;;;;;;
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Cal Date : 10-SEP-2011 16:55 Cal File: SEQ-CAL1.D
Als bottle: 8 Calibration Sample, Level: 7
Dil Factor: 1.00000
Integrator: HP RTE Compound Sublist: ppbnax.sub
Target Version: 4.04
Processing Host: TARGET02_VM

MG 9/14/11

Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	AMOUNTS CAL-AMT (ng/ul)	AMOUNTS ON-COL (ng/ul)
* 1 1,4-Dichlorobenzene-d4	152	6.970	6.970	(1.000)	569236	40.0000	
$ 2 2-Fluorophenol	112	5.299	5.299	(0.760)	1495675	80.0000	77.04
$ 3 Phenol-d6	99	6.472	6.472	(0.928)	1840248	80.0000	81.80
4 Pyridine	79	3.863	3.863	(0.554)	1126181	80.0000	65.17
5 1,4-Dioxane	88	3.500	3.500	(0.502)	1122252	80.0000	146.4(A)
6 N-Nitroso-di-methylamine	42	3.814	3.814	(0.547)	690385	80.0000	81.46
7 Aniline	93	6.550	6.550	(0.940)	1821518	80.0000	76.14
10 Phenol	94	6.492	6.492	(0.931)	1626487	80.0000	77.59
11 bis(2-Chloroethyl)ether	93	6.629	6.629	(0.951)	1434100	80.0000	78.47
12 2-Chlorophenol	128	6.697	6.697	(0.961)	1583738	80.0000	75.81
13 1,3-Dichlorobenzene	146	6.892	6.892	(0.989)	1522535	80.0000	67.34
14 1,4-Dichlorobenzene	146	6.990	6.990	(1.003)	1613780	80.0000	71.76
15 Benzyl alcohol	108	7.146	7.146	(1.025)	812704	80.0000	72.76
16 1,2-Dichlorobenzene	146	7.185	7.185	(1.031)	1637778	80.0000	73.39
17 2-Methylphenol	108	7.273	7.273	(1.043)	1140532	80.0000	72.22
18 2,2'-Oxybis-1-chloropropane	45	7.322	7.322	(1.050)	1696886	80.0000	66.80
19 3-Methylphenol	108	7.479	7.479	(1.073)	972811	80.0000	64.61
20 4-Methylphenol	108	7.479	7.479	(1.073)	972811	80.0000	64.61
196 3-Methylphenol/4-Methylphenol	108	7.479	7.479	(1.073)	972811	80.0000	64.61
21 N-Nitroso-di-n-propylamine	70	7.499	7.499	(1.076)	615077	80.0000	68.72
22 Hexachloroethane	117	7.626	7.626	(1.094)	737677	80.0000	71.67
32 Benzaldehyde	106	6.413	6.413	(0.920)	599750	80.0000	52.20
* 33 Naphthalene-d8	136	8.605	8.605	(1.000)	1849254	40.0000	
$ 34 Nitrobenzene-d5	82	7.684	7.684	(0.893)	1214907	80.0000	83.85
35 Nitrobenzene	77	7.714	7.714	(0.896)	1030854	80.0000	76.85
39 Isophorone	82	8.027	8.027	(0.933)	2289636	80.0000	86.42

09/14/11

Data File: \\ELABNSH05\TARGET\chem\bna1.i\091011B1.b\SEQ-CAL7.D
Report Date: 14-Sep-2011 06:41

Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	AMOUNTS CAL-AMT (ng/ul)	AMOUNTS ON-COL (ng/ul)
40 2-Nitrophenol	139	8.115	8.115	(0.943)	960167	80.0000	89.67
42 2,4-Dimethylphenol	107	8.164	8.164	(0.949)	1247297	80.0000	83.26
43 Benzoic acid	105	8.340	8.340	(0.969)	1014622	80.0000	80.34(M)
44 bis(2-Chloroethoxy)methane	93	8.301	8.301	(0.965)	1477101	80.0000	78.50
47 2,4-Dichlorophenol	162	8.419	8.419	(0.978)	1129559	80.0000	77.10
62 2,6-Dichlorophenol	162	8.712	8.712	(1.012)	1052408	80.0000	76.12
50 1,2,4-Trichlorobenzene	180	8.536	8.536	(0.992)	1133888	80.0000	78.36
51 Naphthalene	128	8.644	8.644	(1.004)	3366780	80.0000	66.40(A)
52 4-Chloroaniline	127	8.712	8.712	(1.012)	1382638	80.0000	70.20
53 Hexachlorobutadiene	225	8.789	8.789	(1.021)	680313	80.0000	75.24
54 4-Chloro-3-methylphenol	107	9.317	9.317	(1.083)	1037001	80.0000	86.47
55 2-Methylnaphthalene	141	9.512	9.512	(1.105)	1767120	80.0000	77.74
56 1-Methylnaphthalene	141	9.639	9.639	(1.120)	1733980	80.0000	80.52
57 Acetophenone	105	7.489	7.489	(1.074)	1341779	80.0000	57.61
67 1,2,4,5-Tetrachlorobenzene	216	9.725	9.725	(1.130)	1006539	80.0000	79.36
68 Caprolactam	113	9.199	9.199	(1.069)	487474	80.0000	93.43
* 69 Acenaphthene-d10	164	10.817	10.817	(1.000)	742405	40.0000	
70 Hexachlorocyclopentadiene	237	9.707	9.707	(0.897)	611414	80.0000	93.46
71 2,4,6-Trichlorophenol	196	9.860	9.860	(0.912)	726217	80.0000	96.04
72 2,4,5-Trichlorophenol	196	9.908	9.908	(0.916)	714747	80.0000	93.60
73 2-Chloronaphthalene	162	10.130	10.130	(0.936)	1984180	80.0000	85.34
$ 74 2-Fluorobiphenyl	172	9.975	9.975	(0.922)	2195523	80.0000	88.63
75 2-Nitroaniline	65	10.257	10.257	(0.948)	514263	80.0000	99.50
76 Dimethylphthalate	163	10.487	10.487	(0.969)	2180257	80.0000	83.45
77 Acenaphthylene	152	10.652	10.652	(0.985)	2856842	80.0000	84.86
78 2,6-Dinitrotoluene	165	10.565	10.565	(0.977)	698197	80.0000	98.12
79 3-Nitroaniline	138	10.770	10.770	(0.996)	749887	80.0000	88.08
80 Acenaphthene	153	10.866	10.866	(1.004)	1978474	80.0000	87.37
81 2,4-Dinitrophenol	184	10.896	10.896	(1.007)	438721	80.0000	79.86
83 4-Nitrophenol	65	10.953	10.953	(1.013)	318484	80.0000	108.7(A)
84 Dibenzofuran	168	11.080	11.080	(1.024)	2506199	80.0000	87.31
85 2,4-Dinitrotoluene	165	11.060	11.060	(1.022)	817885	80.0000	94.71
86 Diethylphthalate	149	11.359	11.359	(1.050)	2215222	80.0000	81.51
87 4-Chlorophenyl-phenylether	204	11.494	11.494	(1.063)	837712	80.0000	88.01
88 Fluorene	166	11.503	11.503	(1.063)	1806174	80.0000	82.92
89 4-Nitroaniline	138	11.533	11.533	(1.066)	785404	80.0000	97.40
96 2,3,4,6-Tetrachlorophenol	232	11.167	11.167	(1.032)	583443	80.0000	92.97
100 1,1'-Biphenyl	154	10.101	10.101	(0.934)	2292709	80.0000	83.19
* 102 Phenanthrene-d10	188	12.656	12.656	(1.000)	1350874	40.0000	
103 1,2-Diphenylhydrazine	77	11.687	11.687	(0.923)	2076602	80.0000	81.76
104 Carbazole	167	12.958	12.958	(1.024)	2524086	80.0000	71.32
105 4,6-Dinitro-2-methylphenol	198	11.562	11.562	(0.914)	530921	80.0000	77.13
106 N-Nitrosodiphenylamine	169	11.648	11.648	(0.920)	1645208	80.0000	75.84
$ 107 2,4,6-Tribromophenol	330	11.794	11.794	(0.932)	383406	80.0000	74.29
108 4-Bromophenyl-phenylether	248	12.102	12.102	(0.956)	561409	80.0000	75.94
109 Hexachlorobenzene	284	12.169	12.169	(0.961)	653211	80.0000	74.92
110 Pentachlorophenol	266	12.407	12.407	(0.980)	462572	80.0000	73.31

Data File: \\ELABNSH05\TARGET\chem\bna1.i\091011B1.b\SEQ-CAL7.D
Report Date: 14-Sep-2011 06:41

Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	AMOUNTS CAL-AMT (ng/ul)	AMOUNTS ON-COL (ng/ul)
111 Phenanthrene	178	12.695	12.695	(1.003)	2679631	80.0000	74.86
112 Anthracene	178	12.762	12.762	(1.008)	2571795	80.0000	71.79
115 Di-n-butylphthalate	149	13.416	13.416	(1.060)	3822642	80.0000	73.61
116 Fluoranthene	202	14.356	14.356	(1.134)	2299117	80.0000	67.30
129 Atrazine	200	12.292	12.292	(0.971)	354516	80.0000	52.06
* 132 Chrysene-d12	240	16.859	16.859	(1.000)	841066	40.0000	
133 Benzidine	184	14.551	14.551	(0.863)	604584	80.0000	56.64
134 Pyrene	202	14.716	14.716	(0.873)	2516399	80.0000	82.37
$ 135 Terphenyl-d14	244	14.958	14.958	(0.887)	1535360	80.0000	90.25
136 Butylbenzylphthalate	149	15.829	15.829	(0.939)	1781519	80.0000	86.44
137 3,3'-Dichlorobenzidine	252	16.803	16.803	(0.997)	684790	80.0000	89.04
138 Benzo(a)anthracene	228	16.831	16.831	(0.998)	2111128	80.0000	82.89
139 Chrysene	228	16.905	16.905	(1.003)	2037531	80.0000	82.89
140 Bis(2-ethylhexyl)phthalate	149	16.933	16.933	(1.004)	2564738	80.0000	89.53
* 154 Perylene-d12	264	19.593	19.593	(1.000)	710275	40.0000	
155 Di-n-octylphthalate	149	18.224	18.224	(0.930)	3938652	80.0000	80.52
156 Benzo(b)fluoranthene	252	18.888	18.888	(0.964)	1837235	80.0000	86.42
157 Benzo(k)fluoranthene	252	18.944	18.944	(0.967)	1859934	80.0000	85.92
158 Benzo(a)pyrene	252	19.498	19.498	(0.995)	1601611	80.0000	83.39
159 Indeno(1,2,3-cd)pyrene	276	21.895	21.895	(1.117)	1005163	80.0000	72.76
160 Dibenz(a,h)anthracene	278	21.960	21.960	(1.121)	1055555	80.0000	76.25
161 Benzo(g,h,i)perylene	276	22.565	22.565	(1.152)	1012391	80.0000	70.51

QC Flag Legend

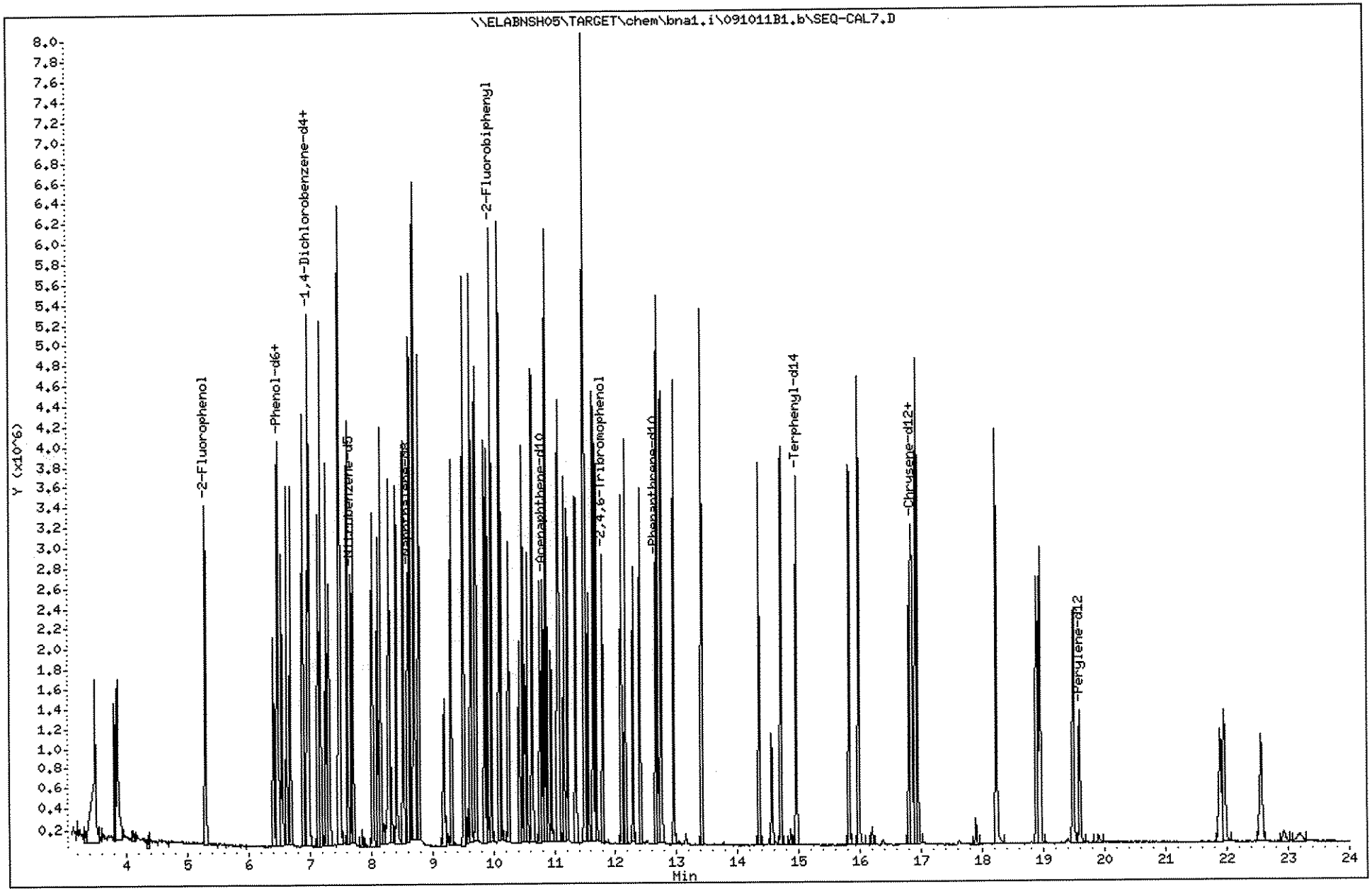
A - Target compound detected but, quantitated amount exceeded maximum amount.
M - Compound response manually integrated.

Data File: \\ELABNSH05\TARGET\chem\bna1.i\091011B1.b\SEQ-CAL7.D
Date : 10-SEP-2011 20:19
Client ID: CAL80.0PPM
Sample Info: CAL80.0PPM;;;;;;

Instrument: bna1.i

Operator: MEC
Column diameter: 0.25

Column phase: fused silica



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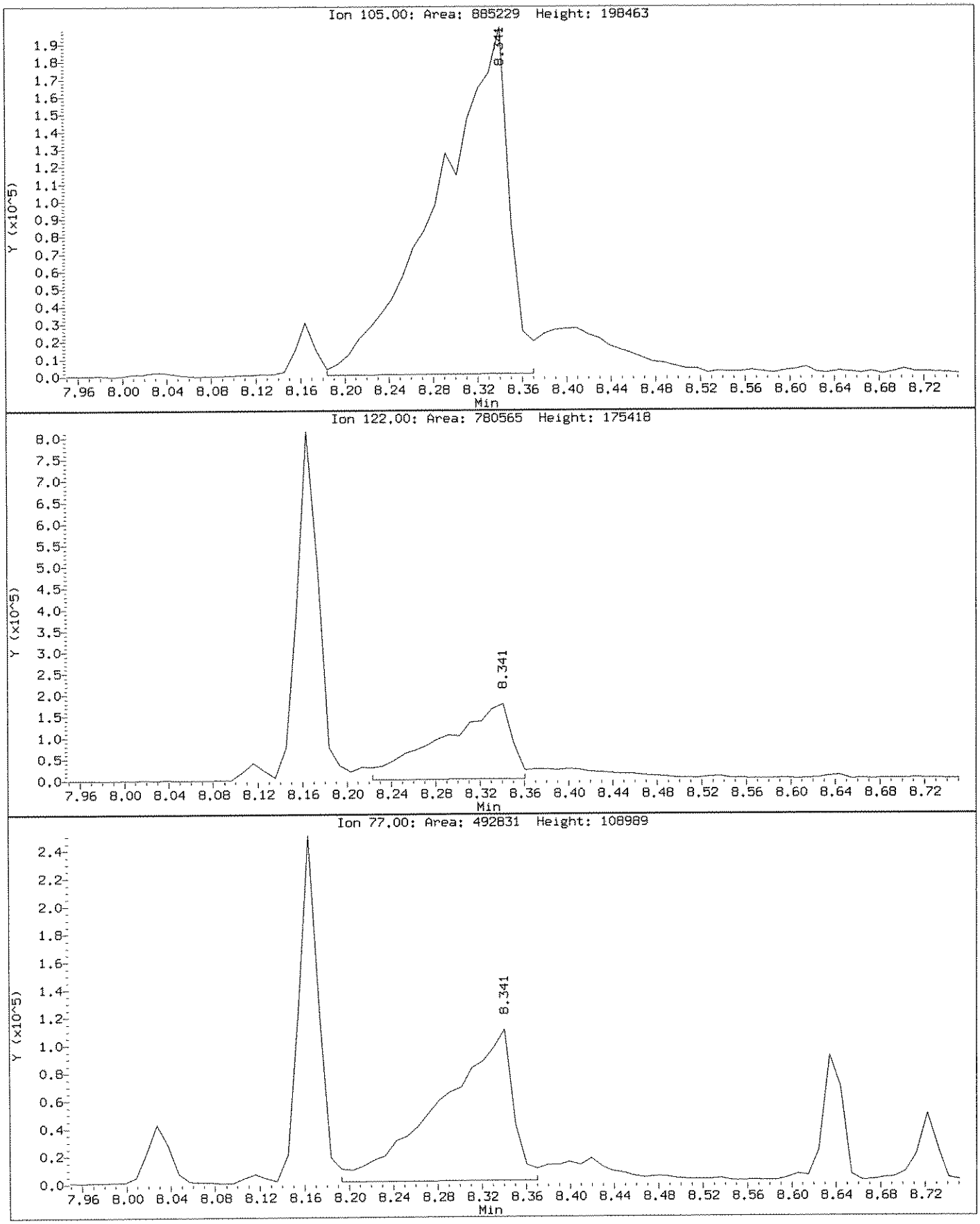
Data File: \\ELABNSH05\TARGET\chem\bna1.i\091011B1.b\SEQ-CAL7.D
Injection Date: 10-SEP-2011 20:19
Instrument: bna1.i
Client Sample ID: CAL80.0PPM

Compound: Benzoic acid
CAS Number: 65-85-0



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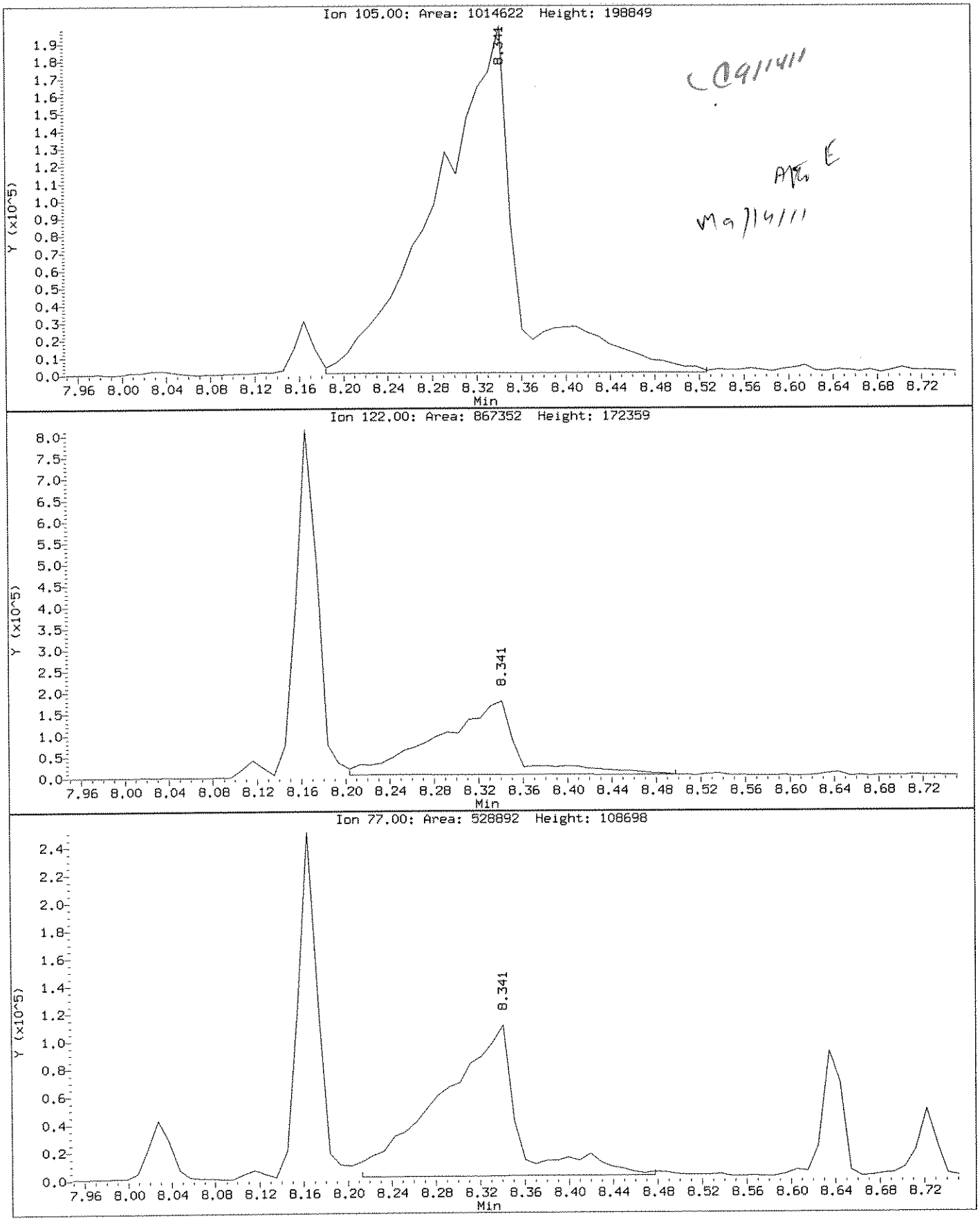
Injection Date: 10-SEP-2011 20:19
Instrument: bna1.i
Client Sample ID: CAL80.0PPM

Compound: Benzoic acid
CAS Number: 65-85-0



Data File: \\ELABNSH05\TARGET\chem\bna1.i\091011B1.b\SEQ-CAL8.D
Report Date: 14-Sep-2011 06:41

Laboratory Name

Data file : \\ELABNSH05\TARGET\chem\bna1.i\091011B1.b\SEQ-CAL8.D
Lab Smp Id: SEQ-CAL8 Client Smp ID: CAL100.0PPM
Inj Date : 10-SEP-2011 20:53 MS Autotune Date: 09-SEP-2011 09:38
Operator : MEC Inst ID: bna1.i
Smp Info : CAL100.0PPM;;;;;;
Misc Info : ;1;;;8;;ppbnax.sub;
Comment :
Method : \\ELABNSH05\TARGET\chem\bna1.i\091011B1.b\IXBN1.m
Meth Date : 14-Sep-2011 06:41 amonteiro Quant Type: ISTD
Cal Date : 10-SEP-2011 16:55 Cal File: SEQ-CAL1.D
Als bottle: 9 Calibration Sample, Level: 8
Dil Factor: 1.00000
Integrator: HP RTE Compound Sublist: ppbnax.sub
Target Version: 4.04
Processing Host: TARGET02_VM

ma/14/11

Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	AMOUNTS CAL-AMT (ng/ul)	AMOUNTS ON-COL (ng/ul)
* 1 1,4-Dichlorobenzene-d4	152	6.966	6.966	(1.000)	498914	40.0000	
$ 2 2-Fluorophenol	112	5.304	5.304	(0.761)	1684539	100.000	99.00
$ 3 Phenol-d6	99	6.478	6.478	(0.930)	1994082	100.000	101.1(A)
4 Pyridine	79	3.846	3.846	(0.552)	1573662	100.000	103.9(A)
5 1,4-Dioxane	88	3.493	3.493	(0.501)	532870	100.000	79.32
6 N-Nitroso-di-methylamine	42	3.817	3.817	(0.548)	863217	100.000	116.2(A)
7 Aniline	93	6.547	6.547	(0.940)	1892643	100.000	90.26
10 Phenol	94	6.498	6.498	(0.933)	1783605	100.000	97.08
11 bis(2-Chloroethyl)ether	93	6.634	6.634	(0.952)	1581928	100.000	98.76
12 2-Chlorophenol	128	6.693	6.693	(0.961)	1542491	100.000	84.24
13 1,3-Dichlorobenzene	146	6.897	6.897	(0.990)	1830740	100.000	92.39
14 1,4-Dichlorobenzene	146	6.995	6.995	(1.004)	1805015	100.000	91.57
15 Benzyl alcohol	108	7.152	7.152	(1.027)	980589	100.000	100.2(A)
16 1,2-Dichlorobenzene	146	7.190	7.190	(1.032)	1909701	100.000	97.64
17 2-Methylphenol	108	7.278	7.278	(1.045)	1381011	100.000	99.77
18 2,2'-Oxybis-1-chloropropane	45	7.317	7.317	(1.050)	2183051	100.000	98.04
19 3-Methylphenol	108	7.483	7.483	(1.074)	1194853	100.000	90.54
20 4-Methylphenol	108	7.483	7.483	(1.074)	1194853	100.000	90.54
196 3-Methylphenol/4-Methylphenol	108	7.483	7.483	(1.074)	1194853	100.000	90.54
21 N-Nitroso-di-n-propylamine	70	7.502	7.502	(1.077)	747828	100.000	95.32
22 Hexachloroethane	117	7.619	7.619	(1.094)	905872	100.000	100.4(A)
32 Benzaldehyde	106	6.409	6.409	(0.920)	583687	100.000	57.96
* 33 Naphthalene-d8	136	8.606	8.606	(1.000)	1845226	40.0000	
$ 34 Nitrobenzene-d5	82	7.688	7.688	(0.893)	1484636	100.000	102.7(A)
35 Nitrobenzene	77	7.718	7.718	(0.897)	1368504	100.000	102.2(A)
39 Isophorone	82	8.029	8.029	(0.933)	2433460	100.000	92.04

Data File: \\ELABNSH05\TARGET\chem\bna1.i\091011B1.b\SEQ-CAL8.D
Report Date: 14-Sep-2011 06:41

Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	AMOUNTS CAL-AMT (ng/ul)	AMOUNTS ON-COL (ng/ul)
40 2-Nitrophenol	139	8.118	8.118	(0.943)	1068075	100.000	99.97
42 2,4-Dimethylphenol	107	8.167	8.167	(0.949)	1496913	100.000	100.1(A)
43 Benzoic acid	105	8.352	8.352	(0.971)	1296983	100.000	101.6(AM)
44 bis(2-Chloroethoxy)methane	93	8.303	8.303	(0.965)	1897262	100.000	101.0(A)
47 2,4-Dichlorophenol	162	8.420	8.420	(0.978)	1436887	100.000	98.29
62 2,6-Dichlorophenol	162	8.713	8.713	(1.012)	1193916	100.000	86.54
50 1,2,4-Trichlorobenzene	180	8.537	8.537	(0.992)	1342864	100.000	93.00
51 Naphthalene	128	8.635	8.635	(1.003)	4127952	100.000	81.60(A)
52 4-Chloroaniline	127	8.713	8.713	(1.012)	1567805	100.000	79.78
53 Hexachlorobutadiene	225	8.791	8.791	(1.022)	904452	100.000	100.2(A)
54 4-Chloro-3-methylphenol	107	9.318	9.318	(1.083)	1116550	100.000	93.30
55 2-Methylnaphthalene	141	9.514	9.514	(1.106)	1886357	100.000	83.16
56 1-Methylnaphthalene	141	9.639	9.639	(1.120)	1889207	100.000	87.92
57 Acetophenone	105	7.492	7.492	(1.076)	1643280	100.000	80.50
67 1,2,4,5-Tetrachlorobenzene	216	9.726	9.726	(1.130)	1146042	100.000	90.55
* 69 Acenaphthene-d10	164	10.820	10.820	(1.000)	842437	40.0000	
70 Hexachlorocyclopentadiene	237	9.707	9.707	(0.897)	692014	100.000	93.22
71 2,4,6-Trichlorophenol	196	9.870	9.870	(0.912)	846550	100.000	98.66
72 2,4,5-Trichlorophenol	196	9.917	9.917	(0.917)	795636	100.000	91.82
73 2-Chloronaphthalene	162	10.130	10.130	(0.936)	2311910	100.000	87.63
$ 74 2-Fluorobiphenyl	172	9.974	9.974	(0.922)	2407488	100.000	85.65
75 2-Nitroaniline	65	10.255	10.255	(0.948)	605259	100.000	103.2(A)
76 Dimethylphthalate	163	10.489	10.489	(0.969)	2629776	100.000	88.70
77 Acenaphthylene	152	10.655	10.655	(0.985)	3383924	100.000	88.59
78 2,6-Dinitrotoluene	165	10.567	10.567	(0.977)	775247	100.000	96.02
79 3-Nitroaniline	138	10.771	10.771	(0.996)	891135	100.000	92.25
80 Acenaphthene	153	10.869	10.869	(1.004)	2233640	100.000	86.93
81 2,4-Dinitrophenol	184	10.898	10.898	(1.007)	528504	100.000	82.00
83 4-Nitrophenol	65	10.956	10.956	(1.013)	382904	100.000	115.2(A)
84 Dibenzofuran	168	11.083	11.083	(1.024)	2785845	100.000	85.53
85 2,4-Dinitrotoluene	165	11.063	11.063	(1.022)	916996	100.000	93.58
86 Diethylphthalate	149	11.352	11.352	(1.049)	2860673	100.000	92.76
87 4-Chlorophenyl-phenylether	204	11.497	11.497	(1.063)	955535	100.000	88.47
88 Fluorene	166	11.507	11.507	(1.063)	2190052	100.000	88.60
89 4-Nitroaniline	138	11.536	11.536	(1.066)	906727	100.000	99.09
96 2,3,4,6-Tetrachlorophenol	232	11.169	11.169	(1.032)	673854	100.000	94.63
100 1,1'-Biphenyl	154	10.100	10.100	(0.933)	2747342	100.000	87.84
* 102 Phenanthrene-d10	188	12.658	12.658	(1.000)	1193330	40.0000	
103 1,2-Diphenylhydrazine	77	11.690	11.690	(0.924)	2214278	100.000	98.69
104 Carbazole	167	12.957	12.957	(1.024)	3212808	100.000	102.8(A)
105 4,6-Dinitro-2-methylphenol	198	11.565	11.565	(0.914)	630493	100.000	102.4(A)
106 N-Nitrosodiphenylamine	169	11.642	11.642	(0.920)	1873660	100.000	97.77
$ 107 2,4,6-Tribromophenol	330	11.795	11.795	(0.932)	471306	100.000	103.4(A)
108 4-Bromophenyl-phenylether	248	12.104	12.104	(0.956)	658430	100.000	100.8(A)
109 Hexachlorobenzene	284	12.171	12.171	(0.961)	784239	100.000	101.8(A)
110 Pentachlorophenol	266	12.410	12.410	(0.980)	596383	100.000	107.0(A)
111 Phenanthrene	178	12.697	12.697	(1.003)	2756350	100.000	87.18

Data File: \\ELABNSH05\TARGET\chem\bna1.i\091011B1.b\SEQ-CAL8.D
Report Date: 14-Sep-2011 06:41

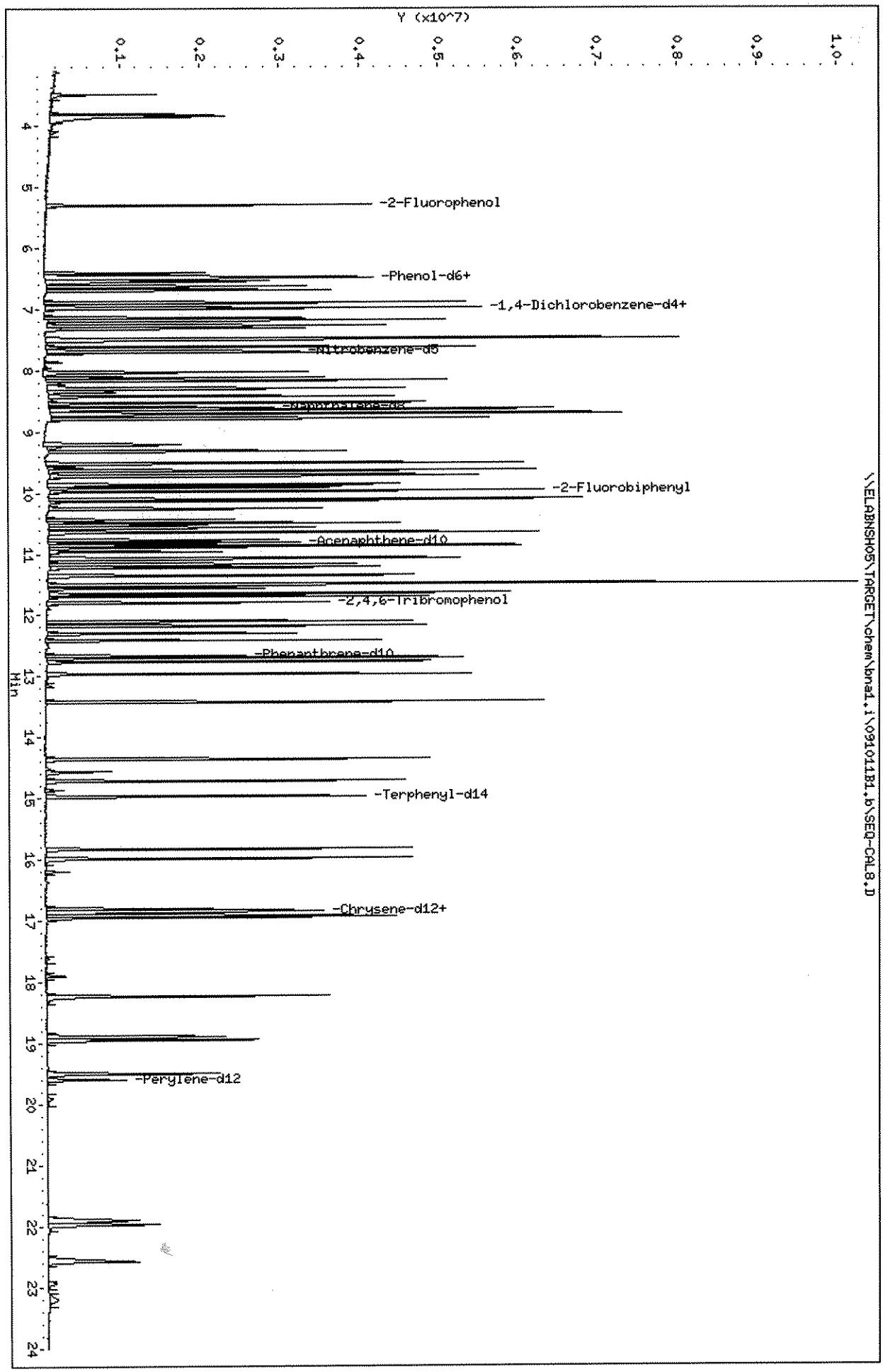
Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	AMOUNTS CAL-AMT (ng/ul)	AMOUNTS ON-COL (ng/ul)
112 Anthracene	178	12.764	12.764	(1.008)	2811464	100.000	88.85
115 Di-n-butylphthalate	149	13.416	13.416	(1.060)	4442318	100.000	96.84
116 Fluoranthene	202	14.353	14.353	(1.134)	2811549	100.000	93.16
129 Atrazine	200	12.295	12.295	(0.971)	413847	100.000	68.79
* 132 Chrysene-d12	240	16.853	16.853	(1.000)	715262	40.0000	
133 Benzidine	184	14.557	14.557	(0.864)	485431	100.000	53.48
134 Pyrene	202	14.712	14.712	(0.873)	2785981	100.000	107.2(A)
$ 135 Terphenyl-d14	244	14.965	14.965	(0.888)	1673129	100.000	115.6(A)
136 Butylbenzylphthalate	149	15.824	15.824	(0.939)	1971412	100.000	112.5(A)
137 3,3'-Dichlorobenzidine	252	16.797	16.797	(0.997)	615881	100.000	94.16
138 Benzo(a)anthracene	228	16.834	16.834	(0.999)	2194732	100.000	101.3(A)
139 Chrysene	228	16.908	16.908	(1.003)	2030634	100.000	97.14
140 Bis(2-ethylhexyl)phthalate	149	16.936	16.936	(1.005)	2553917	100.000	104.8(A)
* 154 Perylene-d12	264	19.587	19.587	(1.000)	526083	40.0000	
155 Di-n-octylphthalate	149	18.227	18.227	(0.931)	3713317	100.000	101.6(A)
156 Benzo(b)fluoranthene	252	18.890	18.890	(0.964)	1602755	100.000	101.8(A)
157 Benzo(k)fluoranthene	252	18.947	18.947	(0.967)	1736243	100.000	108.3(A)
158 Benzo(a)pyrene	252	19.492	19.492	(0.995)	1441022	100.000	101.3(A)
159 Indeno(1,2,3-cd)pyrene	276	21.886	21.886	(1.117)	1117764	100.000	109.2(A)
160 Dibenz(a,h)anthracene	278	21.960	21.960	(1.121)	1148248	100.000	112.0(A)
161 Benzo(g,h,i)perylene	276	22.565	22.565	(1.152)	1104821	100.000	103.9(A)

QC Flag Legend

A - Target compound detected but, quantitated amount exceeded maximum amount.
M - Compound response manually integrated.

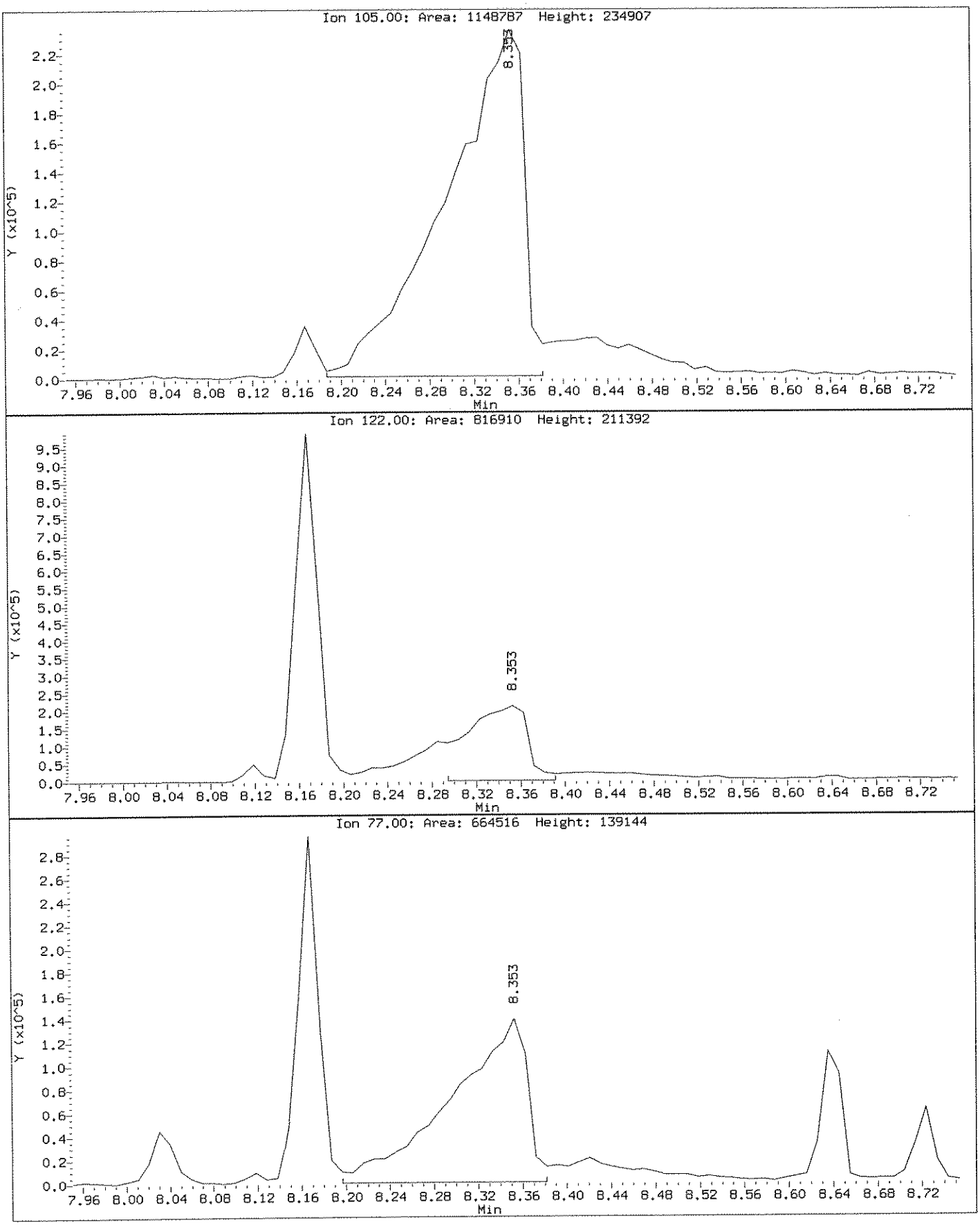
Data File: \\ELABNSHO5\TARGET\chem\bna1.i\091011B1.b\SEQ-CAL8.D
Date : 10-SEP-2011 20:53
Client ID: CAL100.0PPM
Sample Info: CAL100.0PPM;;;;;;
Column phase: fused silica

Instrument: bna1.i
Operator: MEC
Column diameter: 0.25



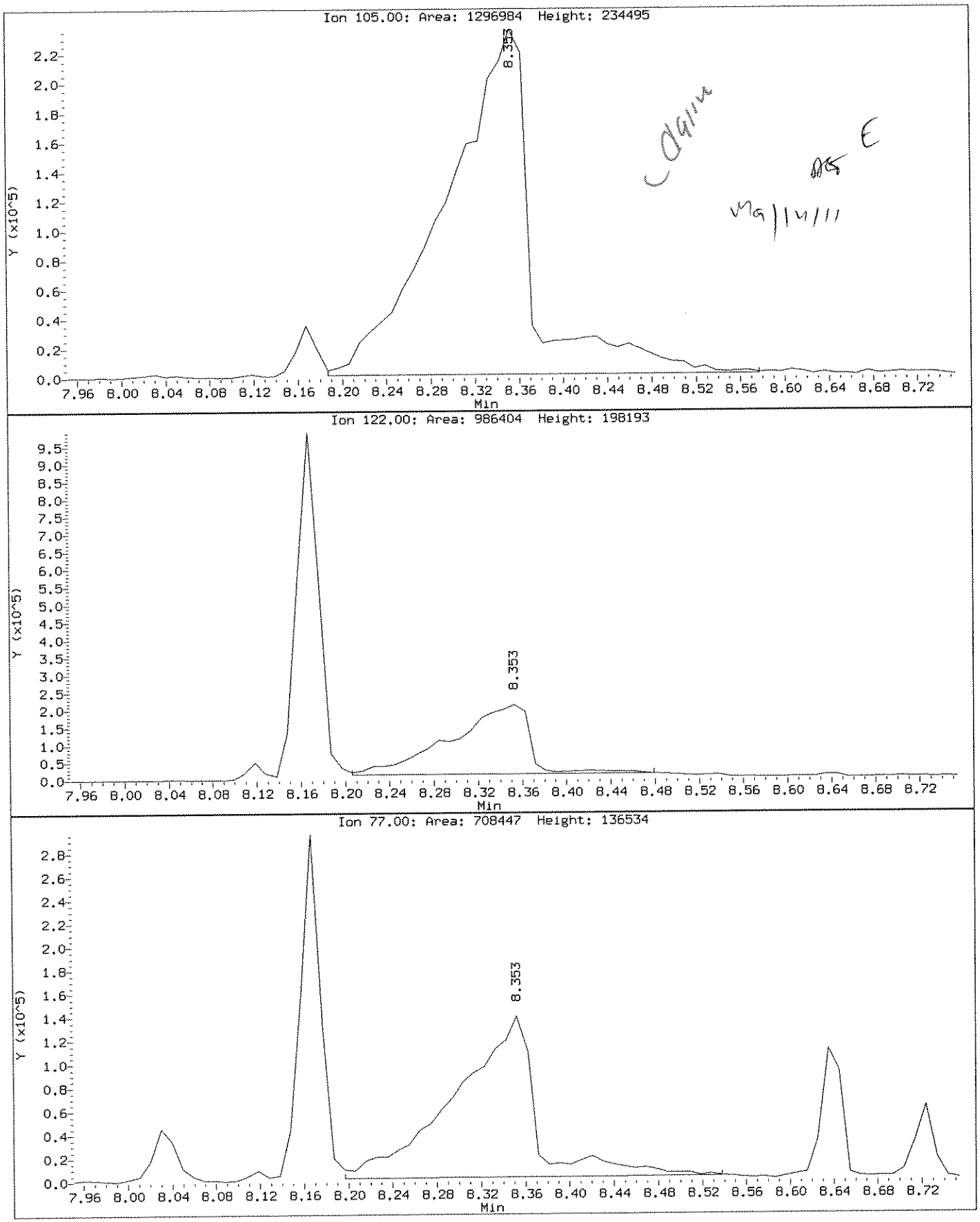
Data File: \\ELABNSH05\TARGET\chem\bna1.i\091011B1.b\SEQ-CAL8.D
Injection Date: 10-SEP-2011 20:53
Instrument: bna1.i
Client Sample ID: CAL100.0PPM

Compound: Benzoic acid
CAS Number: 65-85-0



Data File: \\ELABNSHO5\TARGET\chem\bna1.i\091011B1.b\SEQ-CAL8.D
Injection Date: 10-SEP-2011 20:53
Instrument: bna1.i
Client Sample ID: CAL100.0PPM

Compound: Benzoic acid
CAS Number: 65-85-0



Data File: \\ELABNSH05\TARGET\chem\bna1.i\091011B1.b\SEQ-CAL9.D
Report Date: 14-Sep-2011 06:41

Laboratory Name

Data file : \\ELABNSH05\TARGET\chem\bna1.i\091011B1.b\SEQ-CAL9.D
Lab Smp Id: SEQ-CAL9 Client Smp ID: CAL200.0PPM
Inj Date : 10-SEP-2011 21:27 MS Autotune Date: 09-SEP-2011 09:38
Operator : MEC Inst ID: bna1.i
Smp Info : CAL200.0PPM;;;;;;
Misc Info : ;1;;;9;;ppbnax.sub;
Comment :
Method : \\ELABNSH05\TARGET\chem\bna1.i\091011B1.b\IXBN1.m
Meth Date : 14-Sep-2011 06:41 amonteiro Quant Type: ISTD
Cal Date : 10-SEP-2011 21:27 Cal File: SEQ-CAL9.D
Als bottle: 10 Calibration Sample, Level: 9
Dil Factor: 1.00000
Integrator: HP RTE Compound Sublist: ppbnax.sub
Target Version: 4.04
Processing Host: TARGET02_VM

Ma 11/11/11

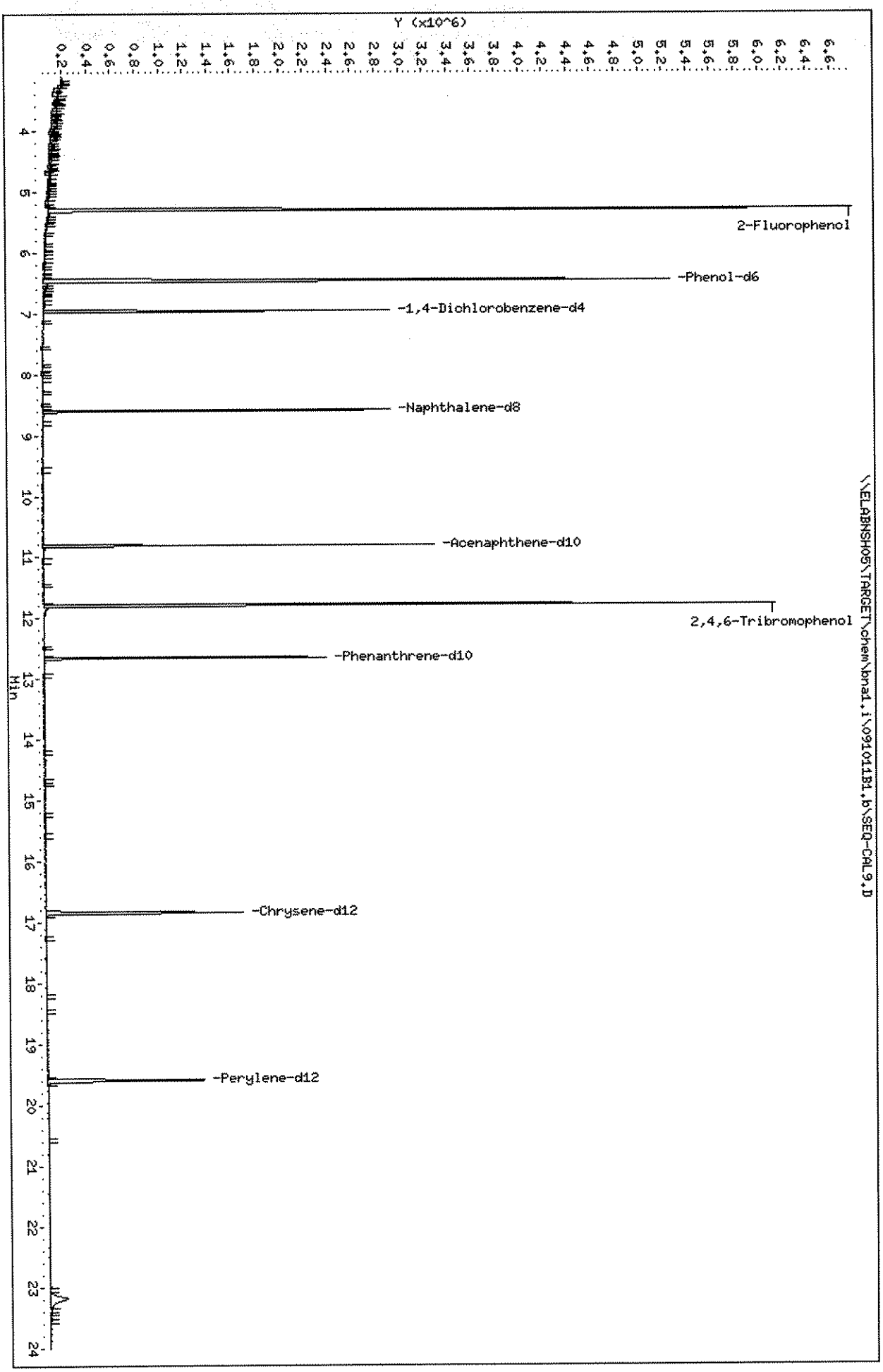
Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	AMOUNTS CAL-AMT (ng/ul)	AMOUNTS ON-COL (ng/ul)
* 1 1,4-Dichlorobenzene-d4	152	6.965	6.965	(1.000)	561116	40.0000	
$ 2 2-Fluorophenol	112	5.303	5.303	(0.761)	2954343	200.000	154.4(A)
$ 3 Phenol-d6	99	6.466	6.466	(0.928)	3326271	200.000	150.0(A)
* 33 Naphthalene-d8	136	8.596	8.596	(1.000)	1913527	40.0000	
* 69 Acenaphthene-d10	164	10.811	10.811	(1.000)	865726	40.0000	
* 102 Phenanthrene-d10	188	12.656	12.656	(1.000)	1173507	40.0000	
$ 107 2,4,6-Tribromophenol	330	11.787	11.787	(0.931)	896907	200.000	200.0(A)
* 132 Chrysene-d12	240	16.835	16.835	(1.000)	910069	40.0000	
* 154 Perylene-d12	264	19.593	19.593	(1.000)	796751	40.0000	

QC Flag Legend

A - Target compound detected but, quantitated amount exceeded maximum amount.

Data File: \\ELABNSHO5\TARGET\chem\bna1.i\091011B1.b\SEQ-CAL9.D
Date : 10-SEP-2011 21:27
Client ID: CAL200.0PPM
Sample Info: CAL200.0PPM;;;;;
Column phase: fused silica

Instrument: bna1.i
Operator: MEC
Column diameter: 0.25



Data File: \\ELABNSH05\TARGET\chem\bna1.i\091011B1.b\SEQ-ICV1.D
Report Date: 14-Sep-2011 06:38

Laboratory Name

Data file : \\ELABNSH05\TARGET\chem\bna1.i\091011B1.b\SEQ-ICV1.D
Lab Smp Id: SEQ-ICV1 Client Smp ID: ICV50.0PPM
Inj Date : 10-SEP-2011 22:40 MS Autotune Date: 09-SEP-2011 09:38
Operator : MEC Inst ID: bna1.i
Smp Info : ICV50.0PPM;;;;;;
Misc Info : ;0;ICV;;;;ppbnax.sub;
Comment :
Method : \\ELABNSH05\TARGET\chem\bna1.i\091011B1.b\IXBN1.m
Meth Date : 14-Sep-2011 06:37 amonteiro Quant Type: ISTD
Cal Date : 10-SEP-2011 21:27 Cal File: SEQ-CAL9.D
Als bottle: 11 QC Sample: ICV
Dil Factor: 1.00000
Integrator: HP RTE Compound Sublist: ppbnax.sub
Target Version: 4.04
Processing Host: TARGET02_VM

Concentration Formula: Amt * DF * Uf * Vt* Vi/(Amt * Vi)

MA 9/14/11

Name	Value	Description
DF	1.000	Dilution Factor
Uf	1.000	ng unit correction factor
Vt	1000.000	Volume of final extract (uL)
Vi	0.500	Volume injected (uL)
Amt	1000.000	Volume of initial extraction

Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS ON-COLUMN (ng/ul)	FINAL (ug/L)
* 1 1,4-Dichlorobenzene-d4	152	6.967	6.966	(1.000)	610161	40.0000	
$ 2 2-Fluorophenol	112	5.306	5.303	(0.762)	1685631	81.0044	81.00
$ 3 Phenol-d6	99	6.469	6.467	(0.928)	2207276	91.5328	91.53
6 N-Nitroso-di-methylamine	42	3.809	3.817	(0.547)	430457	47.3850	47.38
7 Aniline	93	6.547	6.547	(0.940)	1205818	47.0208	47.02
10 Phenol	94	6.488	6.498	(0.931)	1074217	47.8100	47.81
11 bis(2-Chloroethyl)ether	93	6.626	6.635	(0.951)	955129	48.7568	48.76
12 2-Chlorophenol	128	6.694	6.694	(0.961)	1057845	47.2402	47.24
13 1,3-Dichlorobenzene	146	6.889	6.898	(0.989)	1053633	43.4788	43.48
14 1,4-Dichlorobenzene	146	6.987	6.995	(1.003)	1067123	44.2680	44.27
15 Benzyl alcohol	108	7.134	7.152	(1.024)	563824	47.0934	47.09
16 1,2-Dichlorobenzene	146	7.183	7.190	(1.031)	1122498	46.9285	46.93
17 2-Methylphenol	108	7.271	7.278	(1.044)	829380	48.9947	48.99
18 2,2'-Oxybis-1-chloropropane	45	7.310	7.318	(1.049)	1315214	48.2989	48.30

9/14/11

Data File: \\ELABNSH05\TARGET\chem\bna1.i\091011B1.b\SEQ-ICV1.D
Report Date: 14-Sep-2011 06:38

	Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS ON-COLUMN (ng/ul)	FINAL (ug/L)
	19 3-Methylphenol	108	7.467	7.483	(1.072)	761555	47.1851	47.18
	20 4-Methylphenol	108	7.467	7.483	(1.072)	761555	47.1851	47.18
	196 3-Methylphenol/4-Methylphenol	108	7.467	7.483	(1.072)	761555	47.1851	47.18
	21 N-Nitroso-di-n-propylamine	70	7.486	7.503	(1.074)	444636	46.3439	46.34
	22 Hexachloroethane	117	7.614	7.620	(1.093)	528149	47.8730	47.87
	32 Benzaldehyde	106	6.410	6.410	(0.920)	540674	43.8985	43.90
*	33 Naphthalene-d8	136	8.603	8.597	(1.000)	2015891	40.0000	
$	34 Nitrobenzene-d5	82	7.682	7.689	(0.893)	849945	53.8129	53.81
	35 Nitrobenzene	77	7.712	7.718	(0.896)	779048	53.2791	53.28
	39 Isophorone	82	8.015	8.029	(0.932)	1433878	49.6442	49.64
	40 2-Nitrophenol	139	8.113	8.118	(0.943)	580705	49.7507	49.75
	42 2,4-Dimethylphenol	107	8.162	8.167	(0.949)	788218	48.2641	48.26
	43 Benzoic acid	105	8.310	8.353	(0.966)	541638	41.6489	41.65
	44 bis(2-Chloroethoxy)methane	93	8.290	8.304	(0.964)	964176	47.0059	47.00
	47 2,4-Dichlorophenol	162	8.417	8.420	(0.978)	819586	51.3156	51.32
	62 2,6-Dichlorophenol	162	8.711	8.714	(1.012)	685670	45.4934	45.49
	50 1,2,4-Trichlorobenzene	180	8.525	8.538	(0.991)	863906	54.7643	54.76
	51 Naphthalene	128	8.633	8.635	(1.003)	2389391	43.2314	43.23
	52 4-Chloroaniline	127	8.701	8.714	(1.011)	1010258	47.0533	47.05
	53 Hexachlorobutadiene	225	8.788	8.791	(1.021)	472846	47.9698	47.97
	54 4-Chloro-3-methylphenol	107	9.313	9.318	(1.082)	724863	55.4451	55.44
	55 2-Methylnaphthalene	141	9.509	9.515	(1.105)	1196022	48.2642	48.26
	56 1-Methylnaphthalene	141	9.635	9.640	(1.120)	1217293	51.8531	51.85
	57 Acetophenone	105	7.486	7.493	(1.074)	1012490	40.5565	40.56
	67 1,2,4,5-Tetrachlorobenzene	216	9.721	9.726	(1.130)	643122	46.5129	46.51
	68 Caprolactam	113	9.177	9.199	(1.067)	286543	50.3816	50.38
*	69 Acenaphthene-d10	164	10.819	10.812	(1.000)	933075	40.0000	
	70 Hexachlorocyclopentadiene	237	9.703	9.708	(0.897)	429734	52.2629	52.26
	71 2,4,6-Trichlorophenol	196	9.856	9.870	(0.911)	469866	49.4403	49.44
	72 2,4,5-Trichlorophenol	196	9.904	9.918	(0.915)	479222	49.9350	49.94
	73 2-Chloronaphthalene	162	10.128	10.130	(0.936)	1429582	48.9211	48.92
$	74 2-Fluorobiphenyl	172	9.972	9.975	(0.922)	1498138	48.1219	48.12
	75 2-Nitroaniline	65	10.245	10.256	(0.947)	386430	59.4905	59.49
	76 Dimethylphthalate	163	10.478	10.490	(0.968)	1688044	51.4063	51.41(M)
	77 Acenaphthylene	152	10.643	10.655	(0.984)	2103254	49.7122	49.71
	78 2,6-Dinitrotoluene	165	10.556	10.567	(0.976)	437810	48.9562	48.96
	79 3-Nitroaniline	138	10.761	10.772	(0.995)	559881	52.3273	52.33
	80 Acenaphthene	153	10.858	10.869	(1.004)	1344342	47.2363	47.24
	81 2,4-Dinitrophenol	184	10.887	10.899	(1.006)	248944	47.5370	47.54(a)
	83 4-Nitrophenol	65	10.945	10.956	(1.012)	187929	51.0503	51.05
	84 Dibenzofuran	168	11.069	11.083	(1.023)	1679656	46.5571	46.56
	85 2,4-Dinitrotoluene	165	11.049	11.063	(1.021)	534162	49.2141	49.21
	86 Diethylphthalate	149	11.346	11.352	(1.049)	1684468	49.3168	49.32
	87 4-Chlorophenyl-phenylether	204	11.492	11.497	(1.062)	597898	49.9808	49.98
	88 Fluorene	166	11.492	11.507	(1.062)	1318762	48.1691	48.17
	89 4-Nitroaniline	138	11.521	11.536	(1.065)	474946	46.8626	46.86
	96 2,3,4,6-Tetrachlorophenol	232	11.165	11.170	(1.032)	364651	46.2344	46.23

Data File: \\ELABNSH05\TARGET\chem\bna1.i\091011B1.b\SEQ-ICV1.D
Report Date: 14-Sep-2011 06:38

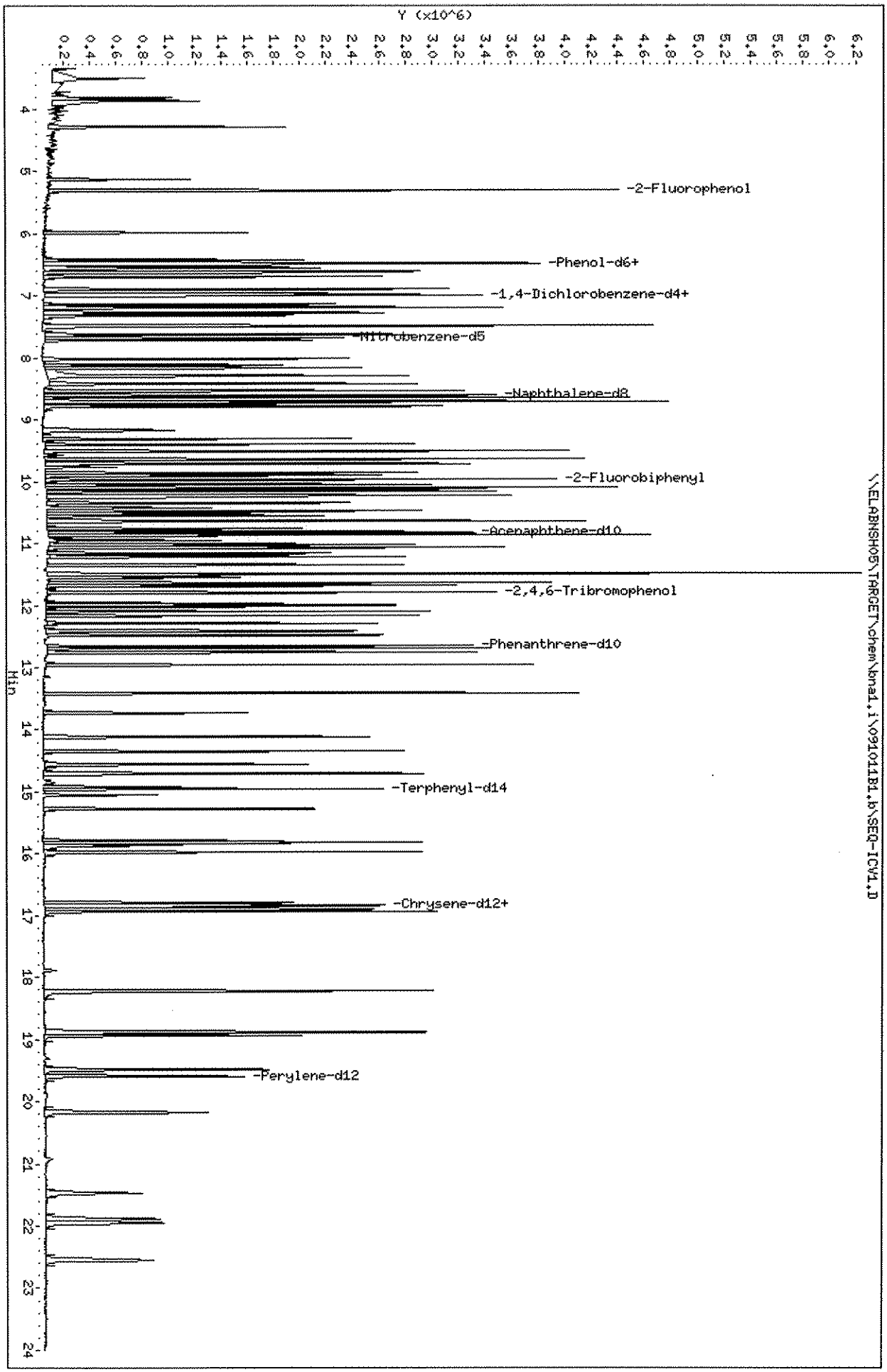
Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS ON-COLUMN (ng/ul)	FINAL (ug/L)
100 1,1'-Biphenyl	154	10.098	10.101	(0.933)	1638803	47.3103	47.31
* 102 Phenanthrene-d10	188	12.656	12.657	(1.000)	1489990	40.0000	
103 1,2-Diphenylhydrazine	77	11.686	11.691	(0.923)	1397552	49.8873	49.89
104 Carbazole	167	12.955	12.958	(1.024)	1924836	49.3123	49.31
105 4,6-Dinitro-2-methylphenol	198	11.550	11.566	(0.913)	299690	41.2255	41.22
106 N-Nitrosodiphenylamine	169	11.637	11.643	(0.920)	1115715	46.6283	46.63
$ 107 2,4,6-Tribromophenol	330	11.792	11.787	(0.932)	493793	86.7419	86.74
108 4-Bromophenyl-phenylether	248	12.096	12.105	(0.956)	361274	44.3072	44.31
109 Hexachlorobenzene	284	12.163	12.171	(0.961)	460439	47.8777	47.88
110 Pentachlorophenol	266	12.409	12.410	(0.981)	298603	42.9061	42.91
111 Phenanthrene	178	12.693	12.698	(1.003)	1738698	44.0415	44.04
112 Anthracene	178	12.751	12.765	(1.007)	1676485	42.4313	42.43
115 Di-n-butylphthalate	149	13.414	13.416	(1.060)	2871825	50.1394	50.14
116 Fluoranthene	202	14.350	14.354	(1.134)	1637014	43.4427	43.44
129 Atrazine	200	12.287	12.296	(0.971)	345900	46.0510	46.05
* 132 Chrysene-d12	240	16.847	16.835	(1.000)	1028093	40.0000	
134 Pyrene	202	14.710	14.713	(0.873)	1773629	47.4962	47.50
$ 135 Terphenyl-d14	244	14.959	14.965	(0.888)	1022931	49.1887	49.19
136 Butylbenzylphthalate	149	15.823	15.825	(0.939)	1252516	49.7205	49.72
138 Benzo(a)anthracene	228	16.828	16.835	(0.999)	1435591	46.1140	46.11
139 Chrysene	228	16.902	16.908	(1.003)	1390248	46.2670	46.27
140 Bis(2-ethylhexyl)phthalate	149	16.930	16.936	(1.005)	1662143	47.4693	47.47
* 154 Perylene-d12	264	19.593	19.593	(1.000)	835303	40.0000	
155 Di-n-octylphthalate	149	18.222	18.227	(0.930)	2875824	51.2893	51.29
156 Benzo(b)fluoranthene	252	18.886	18.891	(0.964)	1273103	50.9241	50.92
157 Benzo(k)fluoranthene	252	18.942	18.947	(0.967)	1215151	47.7296	47.73
158 Benzo(a)pyrene	252	19.489	19.493	(0.995)	1081977	47.9051	47.90
159 Indeno(1,2,3-cd)pyrene	276	21.885	21.887	(1.117)	763321	46.9868	46.99
160 Dibenz(a,h)anthracene	278	21.950	21.961	(1.120)	745014	45.7645	45.76
161 Benzo(g,h,i)perylene	276	22.553	22.565	(1.151)	780466	46.2187	46.22

QC Flag Legend

a - Target compound detected but, quantitated amount
Below Limit Of Quantitation(BLOQ).
M - Compound response manually integrated.

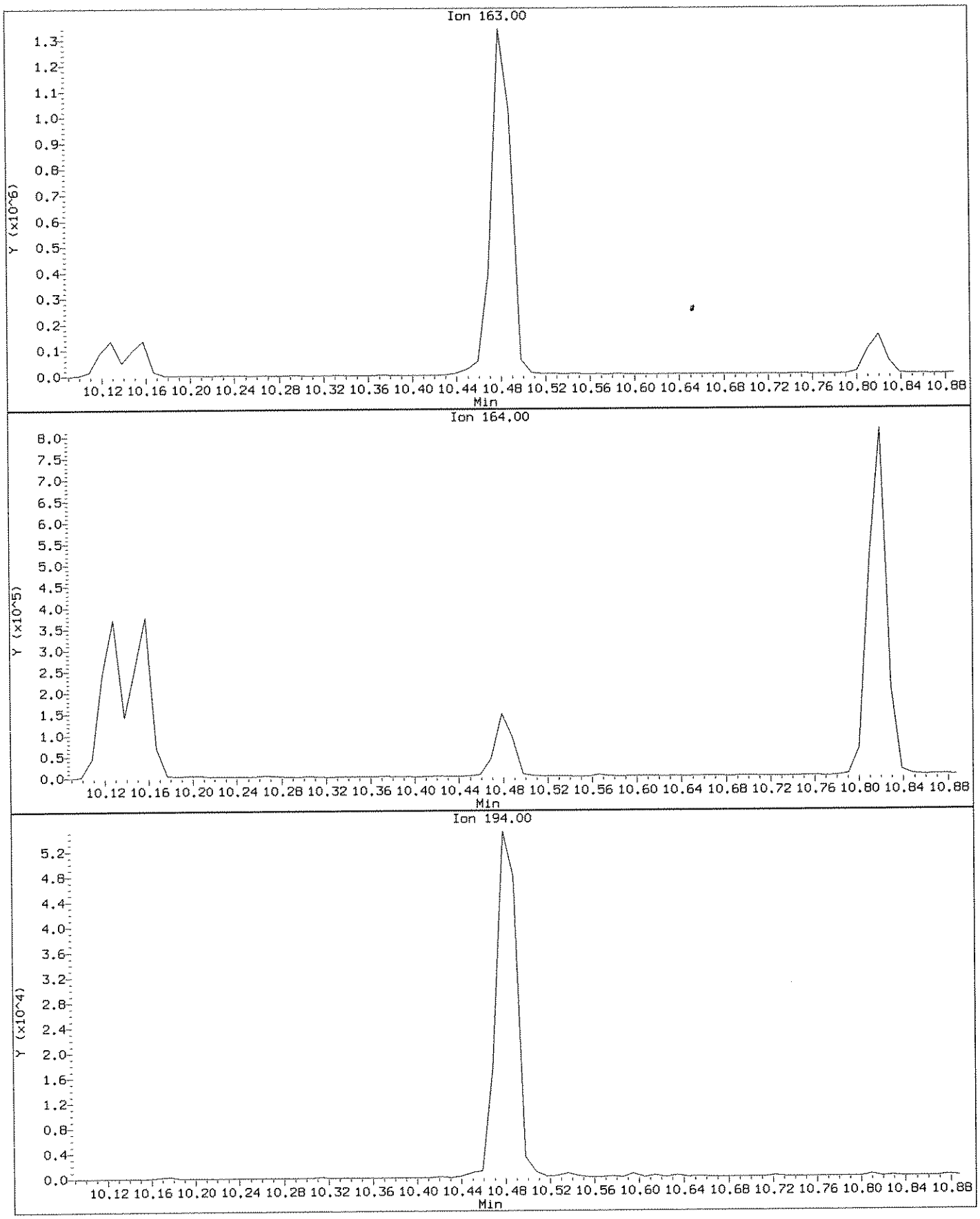
Data File: \\ELABNSHO5\TARGET\chem\bna1.i\091011B1.b\SEQ-ICV1.D
Date : 10-SEP-2011 22:40
Client ID: ICV50.0PPM
Sample Info: ICV50.0PPM;;;;;;
Volume Injected (uL): 0.5
Column phase: fused silica

Instrument: bna1.i
Operator: MEC
Column diameter: 0.25



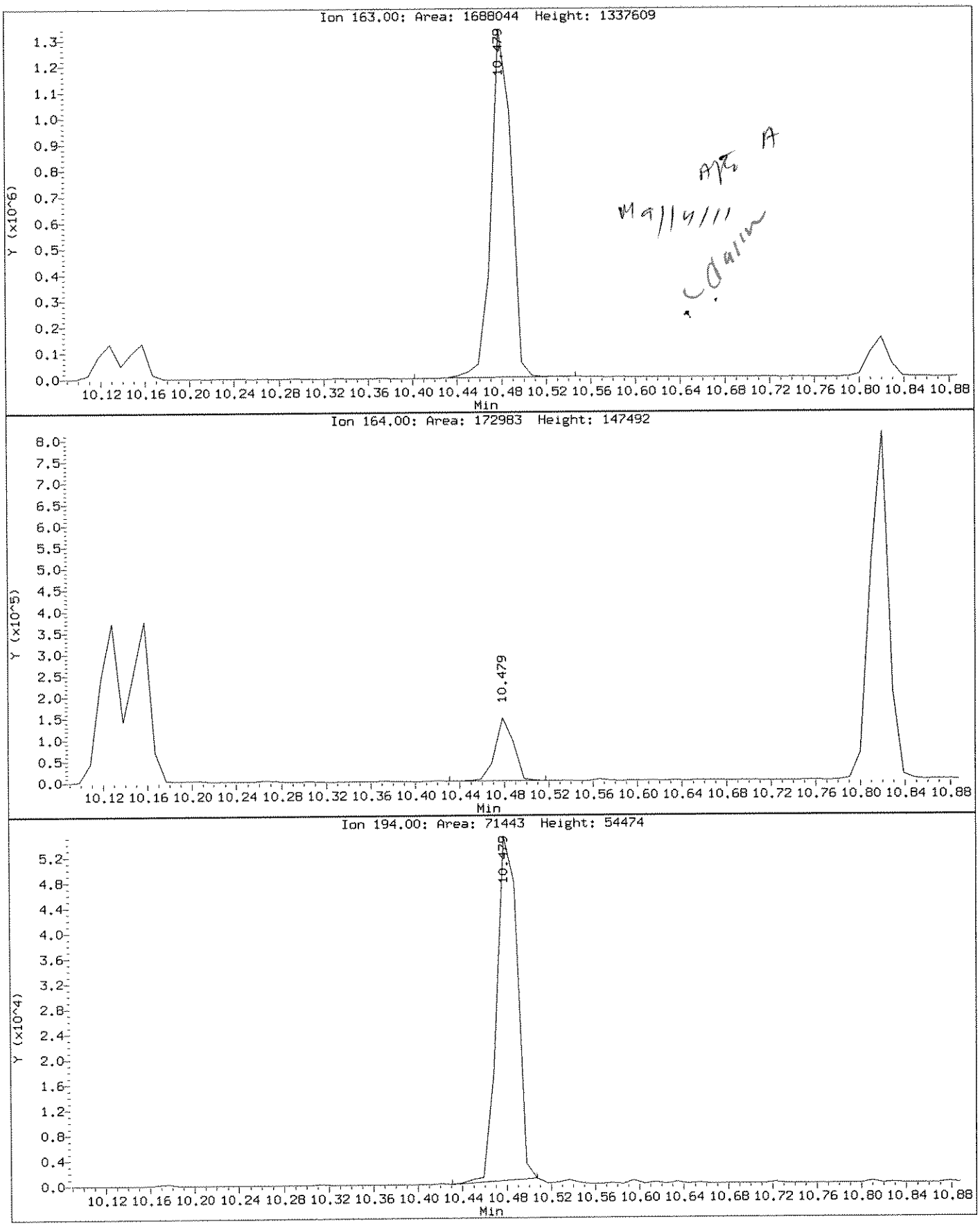
Data File: \\ELABNSHO5\TARGET\chem\bna1.i\091011B1.b\SEQ-ICV1.D
Injection Date: 10-SEP-2011 22:40
Instrument: bna1.i
Client Sample ID: ICV50.0PPM

Compound: Dimethylphthalate
CAS Number: 131-11-3



Data File: \\ELABNSH05\TARGET\chem\bna1.i\091011B1.b\SEQ-ICV1.D
Injection Date: 10-SEP-2011 22:40
Instrument: bna1.i
Client Sample ID: ICV50.0PPM

Compound: Dimethylphthalate
CAS Number: 131-11-3



Data File: \\ELABNSH05\TARGET\chem\bna1.i\091011B1.b\SEQ-ICV2.D
Report Date: 14-Sep-2011 06:38

Laboratory Name

Data file : \\ELABNSH05\TARGET\chem\bna1.i\091011B1.b\SEQ-ICV2.D
Lab Smp Id: SEQ-ICV2 Client Smp ID: SEQ-ICV2
Inj Date : 13-SEP-2011 15:28 MS Autotune Date: 09-SEP-2011 09:38
Operator : MEC Inst ID: bna1.i
Smp Info : ICV50.0PPM;;;;;;
Misc Info : ;0;ICV;;;;ppbnax.sub;
Comment :
Method : \\ELABNSH05\TARGET\chem\bna1.i\091011B1.b\IXBN1.m
Meth Date : 14-Sep-2011 06:37 amonteiro Quant Type: ISTD
Cal Date : 10-SEP-2011 21:27 Cal File: SEQ-CAL9.D
Als bottle: 2 QC Sample: ICV
Dil Factor: 1.00000
Integrator: HP RTE Compound Sublist: ppbnax.sub
Target Version: 4.04
Processing Host: TARGET02_VM

Concentration Formula: Amt * DF * Uf * Vt* Vi/(Amt * Vi)

Name	Value	Description
DF	1.000	Dilution Factor
Uf	1.000	ng unit correction factor
Vt	1000.000	Volume of final extract (uL)
Vi	0.500	Volume injected (uL)
Amt	1000.000	Volume of initial extraction

Mg/14/11

Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS ON-COLUMN (ng/ul)	FINAL (ug/L)
* 1 1,4-Dichlorobenzene-d4	152	6.967	6.966	(1.000)	598849	40.0000	
$ 2 2-Fluorophenol	112	5.307	5.303	(0.762)	1727600	84.5895	84.59
$ 3 Phenol-d6	99	6.468	6.467	(0.928)	2266620	95.7693	95.77
4 Pyridine	79	3.865	3.847	(0.555)	1055993	58.0863	58.09
5 1,4-Dioxane	88	3.504	3.494	(0.503)	417441	51.7684	51.77
* 33 Naphthalene-d8	136	8.607	8.597	(1.000)	2134521	40.0000	
$ 34 Nitrobenzene-d5	82	7.679	7.689	(0.892)	815301	48.7506	48.75
* 69 Acenaphthene-d10	164	10.824	10.812	(1.000)	909557	40.0000	
$ 74 2-Fluorobiphenyl	172	9.978	9.975	(0.922)	1558195	51.3452	51.34
* 102 Phenanthrene-d10	188	12.663	12.657	(1.000)	1281054	40.0000	
$ 107 2,4,6-Tribromophenol	330	11.796	11.787	(0.932)	491685	100.459	100.4(A)
* 132 Chrysene-d12	240	16.852	16.835	(1.000)	952163	40.0000	
133 Benzidine	184	14.560	14.557	(0.864)	908344	75.1724	75.17(R) - X
$ 135 Terphenyl-d14	244	14.957	14.965	(0.888)	923834	47.9660	47.97

Data File: \\ELABNSH05\TARGET\chem\bna1.i\091011B1.b\SEQ-ICV2.D
Report Date: 14-Sep-2011 06:38

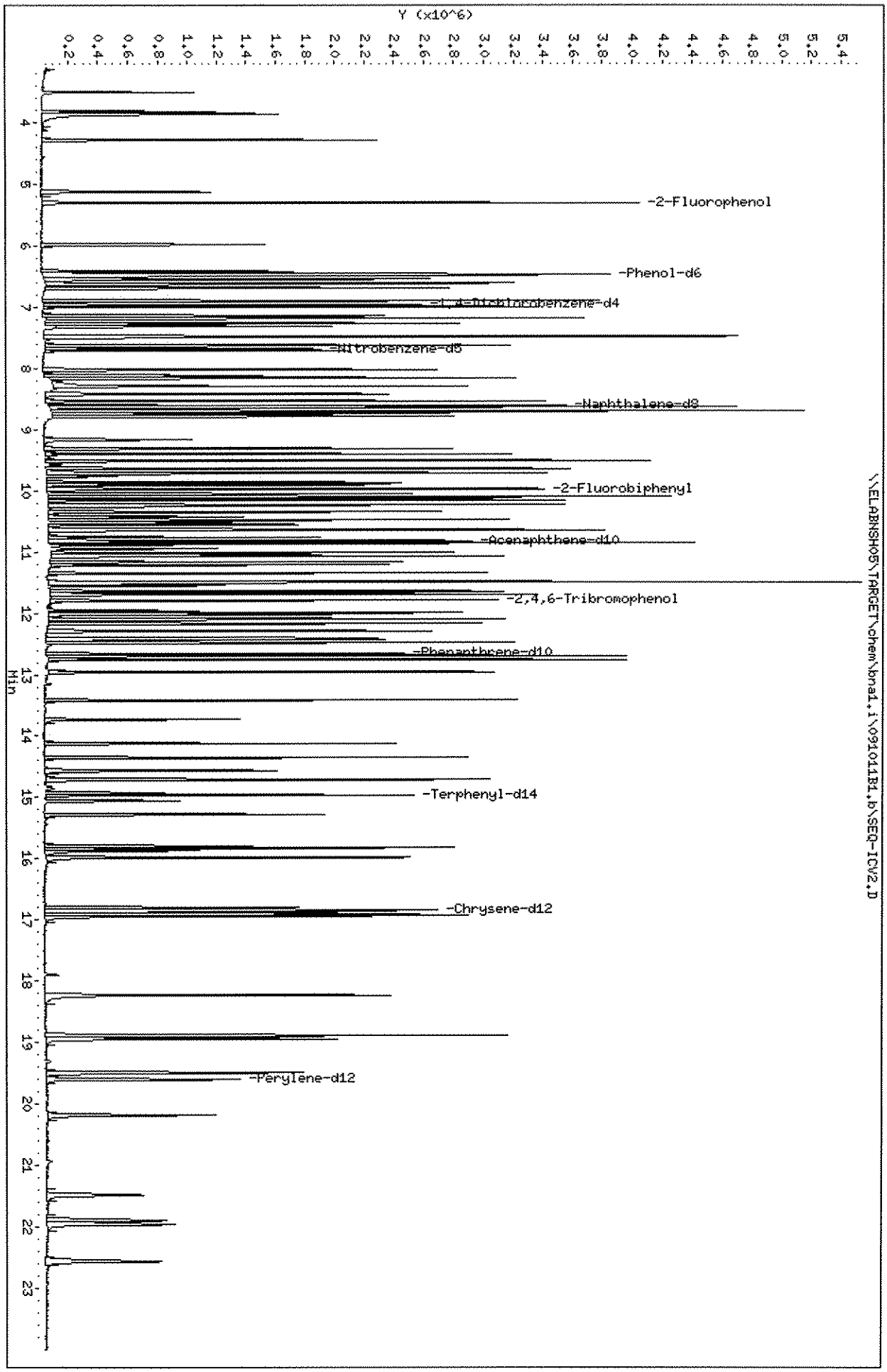
Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS ON-COLUMN (ng/ul)	FINAL (ug/L)
137 3,3'-Dichlorobenzidine	252	16.797	16.797	(0.997)	504468	57.9408	57.94
* 154 Perylene-d12	264	19.595	19.593	(1.000)	724727	40.0000	

QC Flag Legend

A - Target compound detected but, quantitated amount exceeded maximum amount.
R - Spike/Surrogate failed recovery limits.

Data File: \\ELABNSH05\TARGET\chem\bna1.i\091011B1.b\SEQ-ICV2.D
Date : 13-SEP-2011 15:28
Client ID: SEQ-ICV2
Sample Info: ICV50,0PPM;;;;;;
Volume Injected (uL): 0.5
Column phase: fused silica

Instrument: bna1.i
Operator: NEC
Column diameter: 0.25



Sequence Name: C:\HPCHEM\1\SEQUENCE\100511B1.S
Comment: 8270C/8270D/625
Operator: MEC
Data Path: C:\HPCHEM\1\DATA\100511B1.b\
Pre-Seq Cmd:
Post-Seq Cmd:

M10/5/11

Method Sections To Run
(X) Full Method
( ) Reprocessing Only

On A Barcode Mismatch
(X) Inject Anyway
( ) Don't Inject

8496

Line	Type	Vial	DataFile	Method	Sample Name
1	Sample	100	PRIMER	IXBN1	CCV50PPM;;;;;;11I0891
2	Tune	1	SEQ-TUN1	DFTPPBN1	DF1005B1;;;;;;11H0721 8:24, 10/5
3	Sample	2	SEQ-CCV1	IXBN1	CCV50PPM;;;;;;11I0891
4	QC	3	J03003L1	IXBN1	1J03003-BS1;;1000;1000;UG/L;;03-OCT-2
5	QC	4	J03003B1	IXBN1	1J03003-BLK1;;1000;1000;UG/L;;03-OCT-
6	Sample	5	0925201	IXBN1	1109252-01;;1000;1000;UG/L;;03-OCT-20
7	Sample	6	0925203	IXBN1	1109252-03;;1000;1000;UG/L;;03-OCT-20 > M100X
8	Sample	7	0925205	IXBN1 DWR	1109252-05;;1000;1000;UG/L;;03-OCT-20
9	Sample	8	1000301	IXBN1	1110003-01;;1000;1000;UG/L;;03-OCT-20
10	Sample	9	1000303	IXBN1	1110003-03;;1000;1000;UG/L;;03-OCT-20
11	Sample	10	1000305	IXBN1	1110003-05;;1000;1000;UG/L;;03-OCT-20
12	Sample	11	1000307	IXBN1	1110003-07;;1000;1000;UG/L;;03-OCT-20
13	Sample	12	1000309	IXBN1	1110003-09;;1000;1000;UG/L;;03-OCT-20
14	Sample	13	1000311	IXBN1	1110003-11;;1000;1000;UG/L;;03-OCT-20
15	Sample	14	1000312	IXBN1	1110003-12;;1000;1000;UG/L;;03-OCT-20
16	Sample	15	1000314	IXBN1	1110003-14;;1000;1000;UG/L;;03-OCT-20
17	Sample	16	1000312M	IXBN1	1J03003-MS1;;1000;1000;UG/L;;03-OCT-2
18	Sample	17	1000312S	IXBN1	1J03003-MSD1;;1000;1000;UG/L;;03-OCT-
19	Sample	18	0925203D	IXBN1	1109252-03;100;1000;1000;UG/L;;03-OCT
20	Sample	19	0925205D	IXBN1	1109252-05;100;1000;1000;UG/L;;03-OCT 9:18, 10/5
21	Sample	100	BLANK1	IXBN1	CCV50PPM;;;;;;11I0891
22	Tune	1	SEQ-TUN2	DFTPPBN1	DF1005B2;;;;;;11H0721

Last Modified: Wed Oct 05 13:16:28 2011

Data File: \\ELABNSH05\TARGET\chem\bna1.i\100511B1.b\SEQ-TUN1.D

Date : 05-OCT-2011 08:24

Client ID: 50ppm DFTPP

Instrument: bna1.i

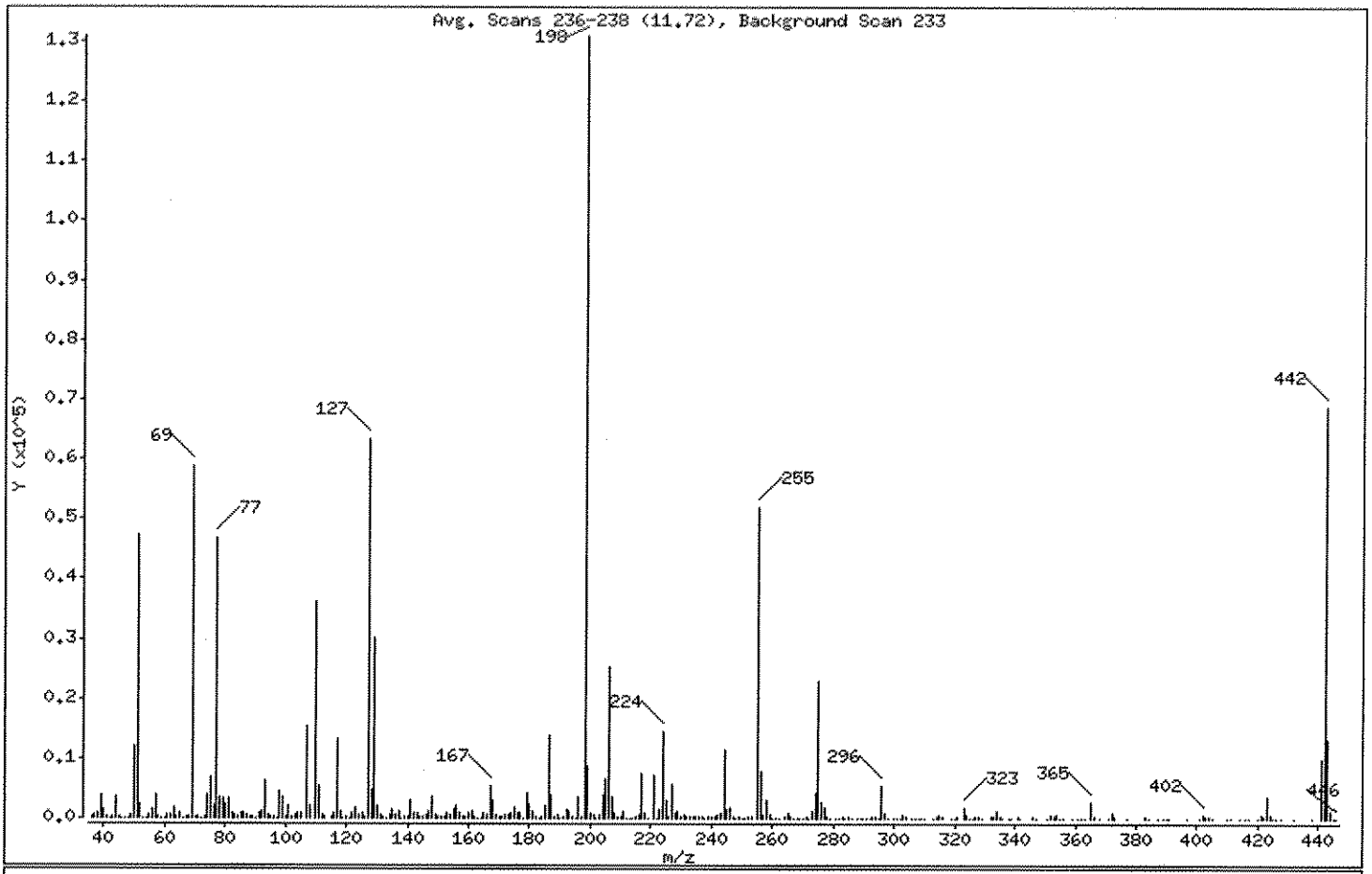
Sample Info: DF1005B1;;;;;;11H0721

Operator: MEC

Column phase: DB5-MS

Column diameter: 0.25

1 dftpp



m/e	ION ABUNDANCE CRITERIA	% RELATIVE ABUNDANCE
198	Base Peak, 100% relative abundance	100.00
51	30.00 - 60.00% of mass 198	36.06
68	Less than 2.00% of mass 69	0.26 (0.57)
69	Mass 69 relative abundance	45.01
70	Less than 2.00% of mass 69	0.20 (0.44)
127	40.00 - 60.00% of mass 198	48.34
197	Less than 1.00% of mass 198	0.29
199	5.00 - 9.00% of mass 198	6.66
275	10.00 - 30.00% of mass 198	17.53
365	Greater than 1.00% of mass 198	2.11
441	Present, but less than mass 443	7.70
442	Greater than 40.00% of mass 198	52.54
443	17.00 - 23.00% of mass 442	10.24 (19.48)

10/14/11

10/5/11

Data File: \\ELABNSH05\TARGET\chem\bna1.i\100511B1.b\SEQ-TUN1.D

Date : 05-OCT-2011 08:24

Client ID: 50ppm DFTPP

Instrument: bna1.i

Sample Info: DF1005B1;;;;;;11H0721

Operator: MEC

Column phase: DB5-MS

Column diameter: 0.25

Data File: SEQ-TUN1.D
Spectrum: Avg. Scans 236-238 (11.72), Background Scan 233
Location of Maximum: 198.00
Number of points: 340

m/z	Y	m/z	Y	m/z	Y	m/z	Y
36.00	152	125.00	812	211.00	1299	303.00	594
37.00	459	126.00	300	212.00	20	304.00	187
38.00	866	127.00	63288	213.00	138	306.00	36
39.00	4003	128.00	4868	214.00	40	307.00	37
40.00	1576	129.00	30304	215.00	354	308.00	65
41.00	250	130.00	2199	216.00	542	309.00	50
42.00	105	131.00	488	217.00	7490	310.00	29
43.00	158	132.00	229	218.00	927	313.00	46
44.00	3641	133.00	68	219.00	80	314.00	228
45.00	241	134.00	733	221.00	7236	315.00	499
46.00	81	135.00	1637	222.00	29	316.00	314
47.00	75	136.00	592	223.00	1470	319.00	29
48.00	128	137.00	1110	224.00	14586	320.00	23
49.00	599	138.00	144	225.00	2993	321.00	209
50.00	12126	139.00	248	226.00	217	323.00	1920
51.00	47208	140.00	255	227.00	5649	324.00	465
52.00	2286	141.00	3160	228.00	764	325.00	20
53.00	99	142.00	1055	229.00	1142	326.00	25
54.00	138	143.00	810	230.00	158	327.00	361
55.00	456	144.00	227	231.00	576	328.00	195
56.00	1538	145.00	211	232.00	168	329.00	26
57.00	3852	146.00	625	233.00	180	332.00	190
58.00	152	147.00	1316	234.00	373	333.00	186
59.00	20	148.00	3629	235.00	269	334.00	1203
60.00	51	149.00	670	236.00	234	335.00	342
61.00	495	150.00	320	237.00	383	336.00	54
62.00	546	151.00	426	238.00	76	338.00	21
63.00	1754	152.00	169	239.00	258	339.00	57
64.00	305	153.00	786	240.00	229	341.00	239
65.00	910	154.00	753	241.00	261	342.00	61
66.00	82	155.00	1434	242.00	717	346.00	372
67.00	156	156.00	1995	243.00	814	347.00	76
68.00	335	157.00	765	244.00	11439	351.00	67
69.00	58920	158.00	213	245.00	1597	352.00	475
70.00	257	159.00	420	246.00	1911	353.00	416

Data File: \\ELABNSH05\TARGET\chem\bna1.i\100511B1.b\SEQ-TUN1.D

Date : 05-OCT-2011 08:24

Client ID: 50ppm DFTPP

Instrument: bna1.i

Sample Info: DF1005B1;;;;;;11H0721

Operator: MEC

Column phase: DB5-MS

Column diameter: 0.25

Data File: SEQ-TUN1.D
Spectrum: Avg. Scans 236-238 (11.72), Background Scan 233
Location of Maximum: 198.00
Number of points: 340

m/z	Y	m/z	Y	m/z	Y	m/z	Y
71.00	173	160.00	853	247.00	376	354.00	608
72.00	94	161.00	1283	248.00	103	355.00	72
73.00	363	162.00	159	249.00	350	356.00	20
74.00	3999	163.00	84	250.00	134	359.00	34
75.00	6906	164.00	134	251.00	76	361.00	28
76.00	2099	165.00	1043	252.00	201	362.00	70
77.00	46696	166.00	651	253.00	297	363.00	24
78.00	3527	167.00	5484	255.00	51760	365.00	2768
79.00	3258	168.00	2959	256.00	7731	366.00	264
80.00	2425	169.00	530	257.00	458	368.00	26
81.00	3227	170.00	238	258.00	2871	371.00	50
82.00	786	171.00	201	259.00	484	372.00	913
83.00	720	172.00	521	260.00	112	373.00	188
84.00	215	173.00	635	261.00	128	377.00	22
85.00	763	174.00	927	262.00	52	383.00	193
86.00	997	175.00	1905	264.00	165	384.00	81
87.00	597	176.00	825	265.00	949	387.00	22
88.00	283	177.00	925	266.00	212	389.00	22
89.00	162	178.00	31	267.00	42	390.00	145
90.00	70	179.00	4104	268.00	81	391.00	39
91.00	785	180.00	2354	269.00	20	397.00	30
92.00	1172	181.00	1208	270.00	66	401.00	40
93.00	6330	182.00	351	271.00	189	402.00	481
94.00	649	183.00	71	272.00	88	403.00	379
95.00	181	184.00	348	273.00	1327	404.00	205
96.00	262	185.00	2046	274.00	4181	405.00	22
97.00	42	186.00	13947	275.00	22944	410.00	31
98.00	4643	187.00	4008	276.00	2727	411.00	32
99.00	3495	188.00	332	277.00	1713	414.00	36
100.00	382	189.00	716	278.00	276	416.00	29
101.00	2157	190.00	104	279.00	61	417.00	23
102.00	208	191.00	205	281.00	23	420.00	21
103.00	712	192.00	1448	282.00	28	421.00	515
104.00	975	193.00	1068	283.00	209	422.00	394
105.00	1025	194.00	338	284.00	56	423.00	3678

Data File: \\ELABNSH05\TARGET\chem\bna1.i\100511B1.b\SEQ-TUN1.D

Date : 05-OCT-2011 08:24

Client ID: 50ppm DFTPP

Instrument: bna1.i

Sample Info: DF1005B1;;;;;;11H0721

Operator: MEC

Column phase: DB5-MS

Column diameter: 0.25

Data File: SEQ-TUN1.D
Spectrum: Avg. Scans 236-238 (11.72), Background Scan 233
Location of Maximum: 198.00
Number of points: 340

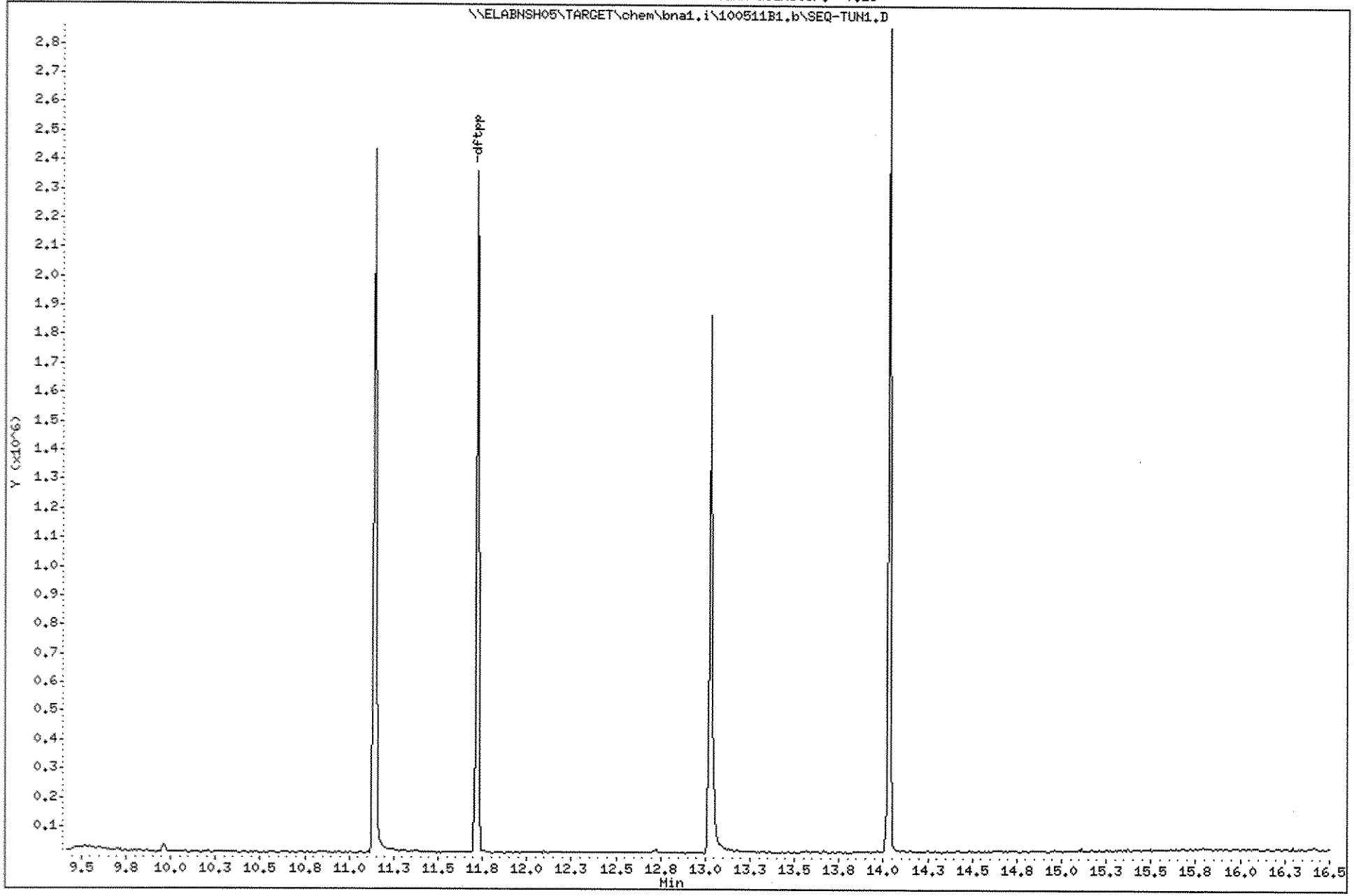
m/z	Y	m/z	Y	m/z	Y	m/z	Y
107.00	15427	195.00	97	285.00	332	424.00	523
108.00	2221	196.00	3571	286.00	42	425.00	38
110.00	36344	197.00	384	288.00	26	426.00	33
111.00	5497	198.00	130912	289.00	44	428.00	35
112.00	541	199.00	8721	290.00	76	432.00	28
113.00	302	200.00	790	291.00	27	438.00	43
115.00	239	201.00	541	292.00	71	441.00	10077
116.00	788	202.00	125	293.00	425	442.00	68776
117.00	13355	203.00	707	294.00	152	443.00	13401
118.00	1154	204.00	3939	295.00	68	444.00	1186
119.00	108	205.00	6724	296.00	5527	445.00	48
120.00	268	206.00	25312	297.00	772	446.00	30
121.00	69	207.00	3587	298.00	31		
122.00	988	208.00	816	300.00	23		
123.00	1664	209.00	311	301.00	73		
124.00	696	210.00	421	302.00	20		

Data File: \\ELABNSH05\TARGET\chem\bna1.i\100511B1.b\SEQ-TUN1.D
Date : 05-OCT-2011 08:24
Client ID: 50ppm DFTPP
Sample Info: DF1005B1;;;;;;11H0721

Instrument: bna1.i

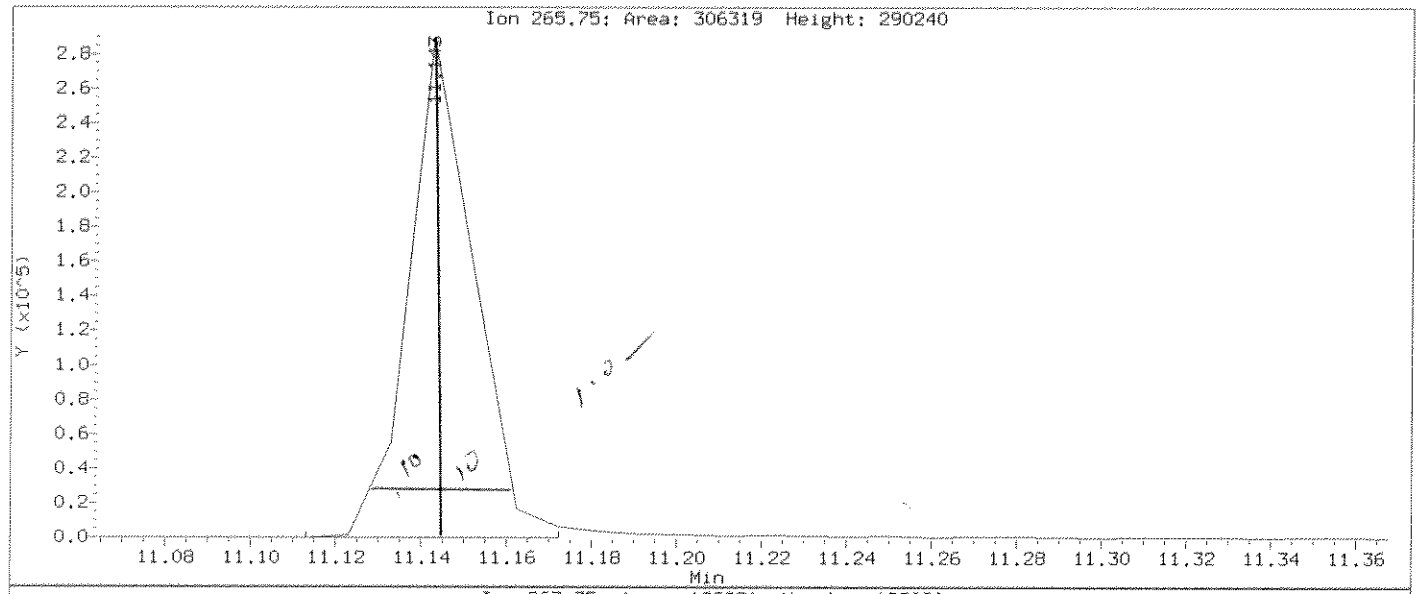
Operator: MEC
Column diameter: 0.25

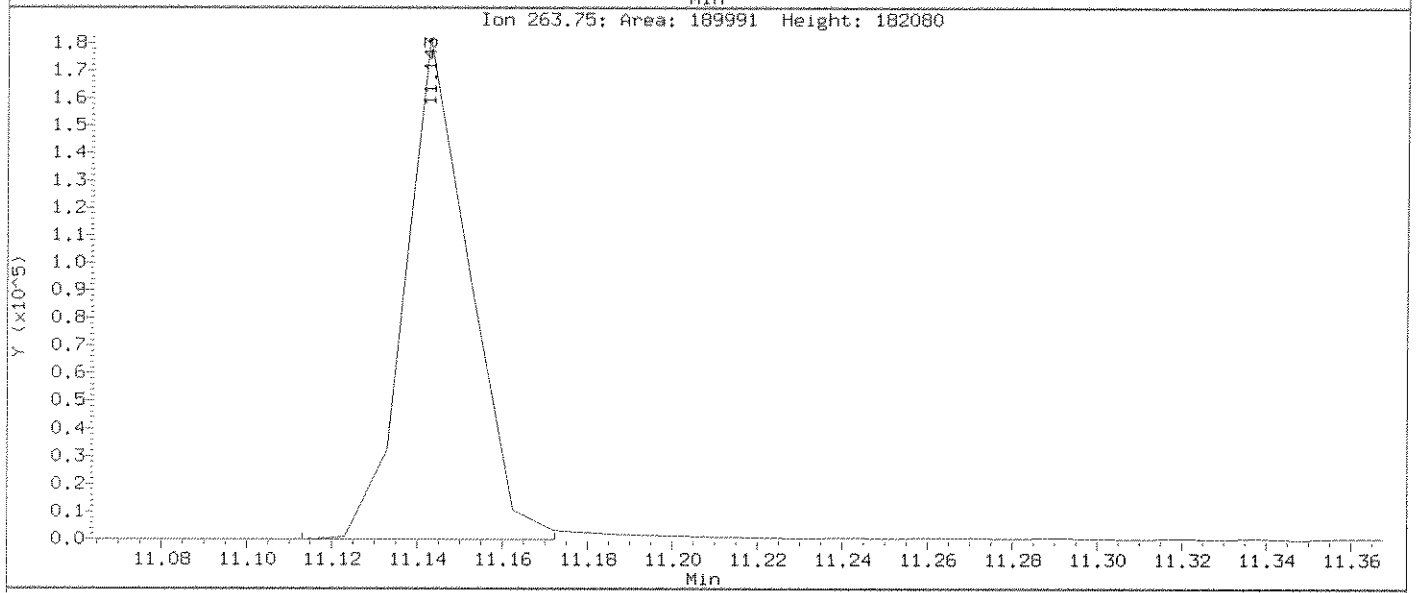
Column phase: DB5-MS

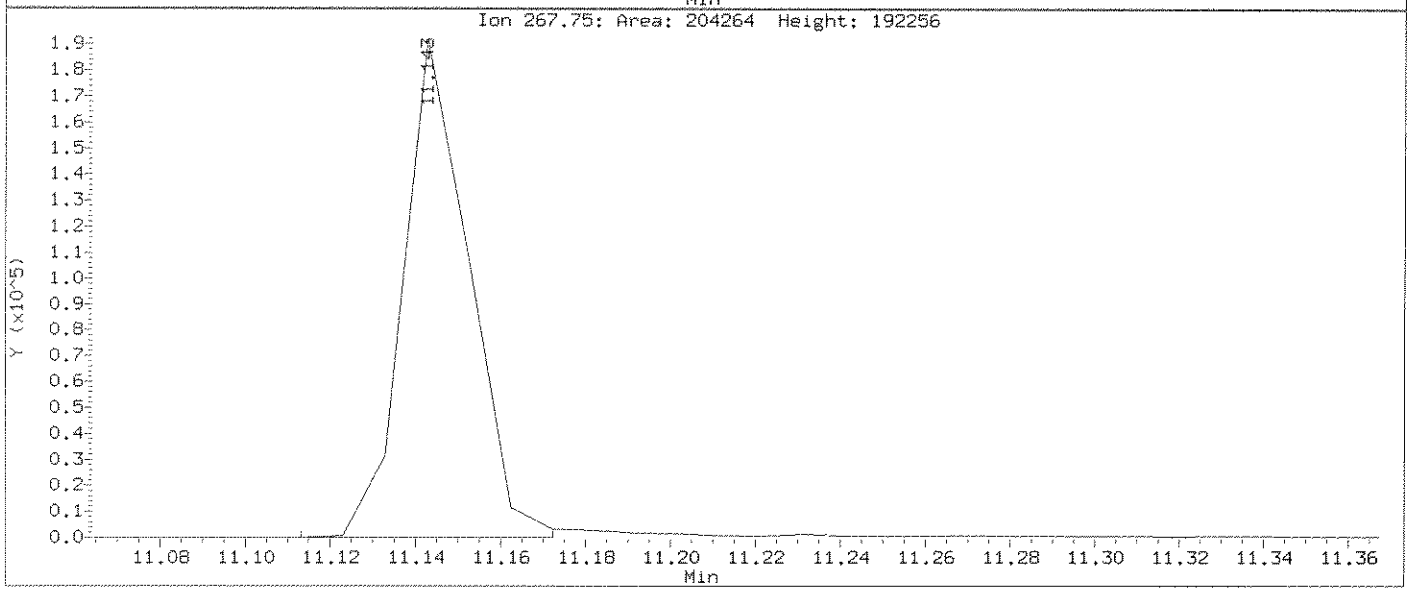


Data File: \\ELABNSHO5\TARGET\chem\bna1.i\100511B1.b\SEQ-TUN1ex.D
Injection Date: 05-OCT-2011 08:24
Instrument: bna1.i
Client Sample ID: 50ppm DFTPP

Compound: Pentachlorophenol
CAS Number: 87-86-5

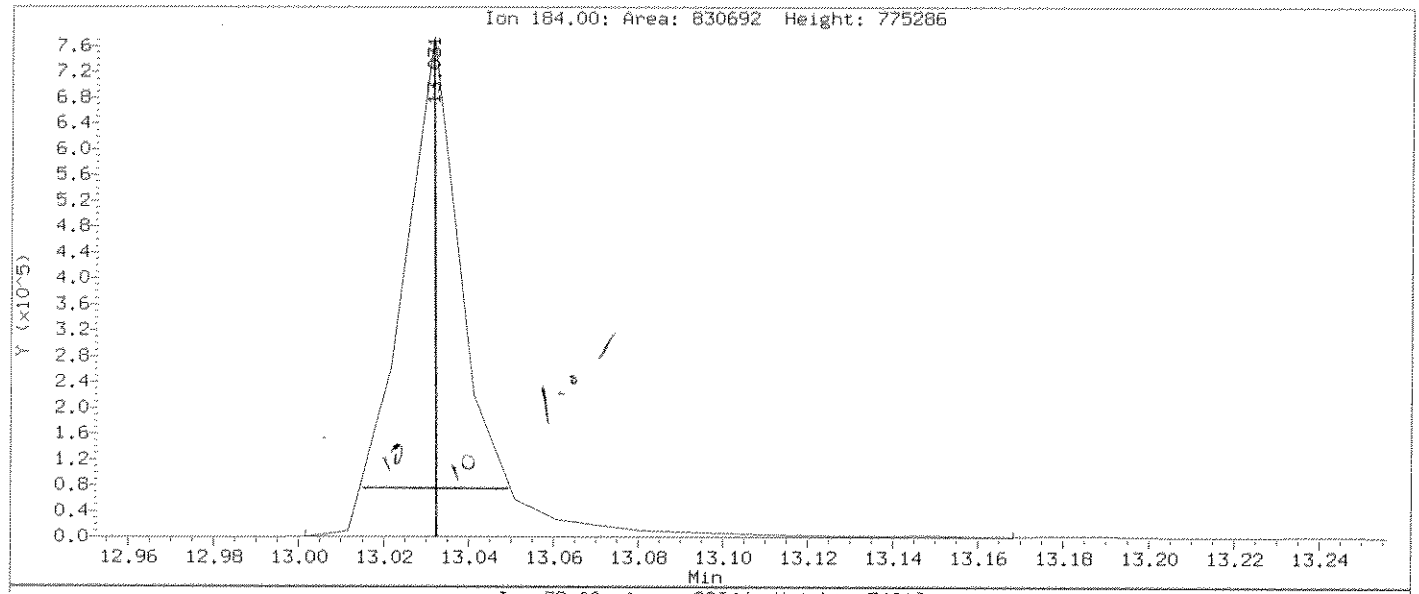


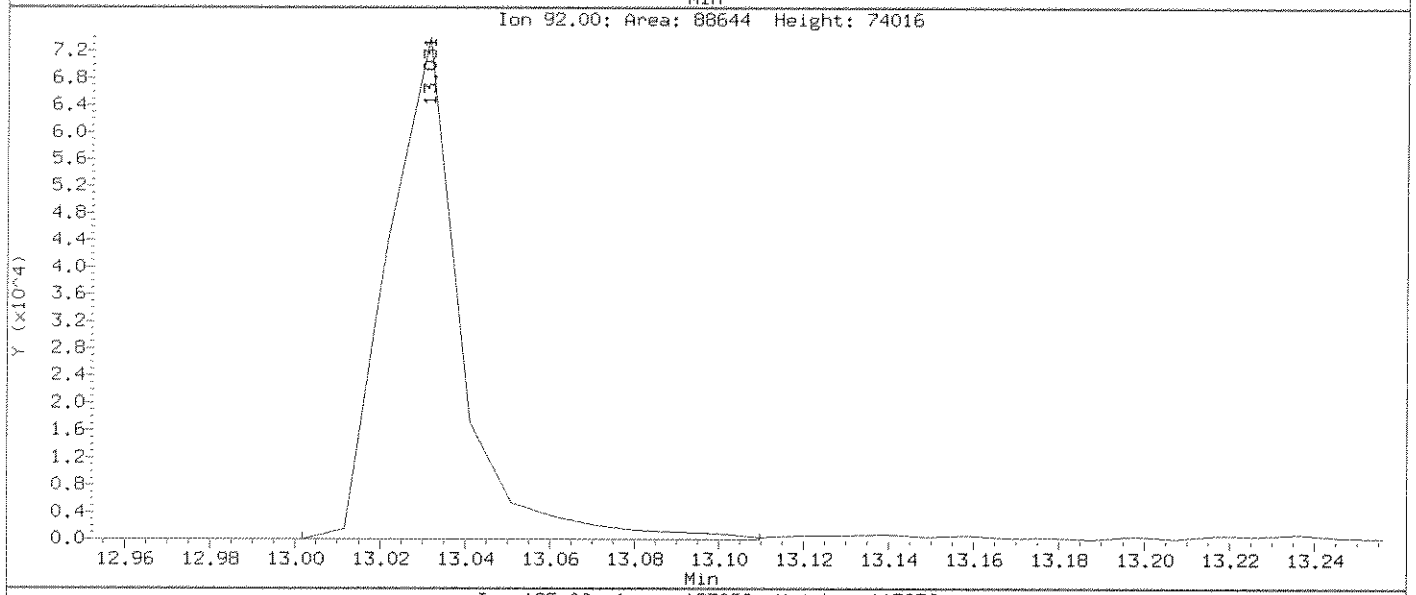


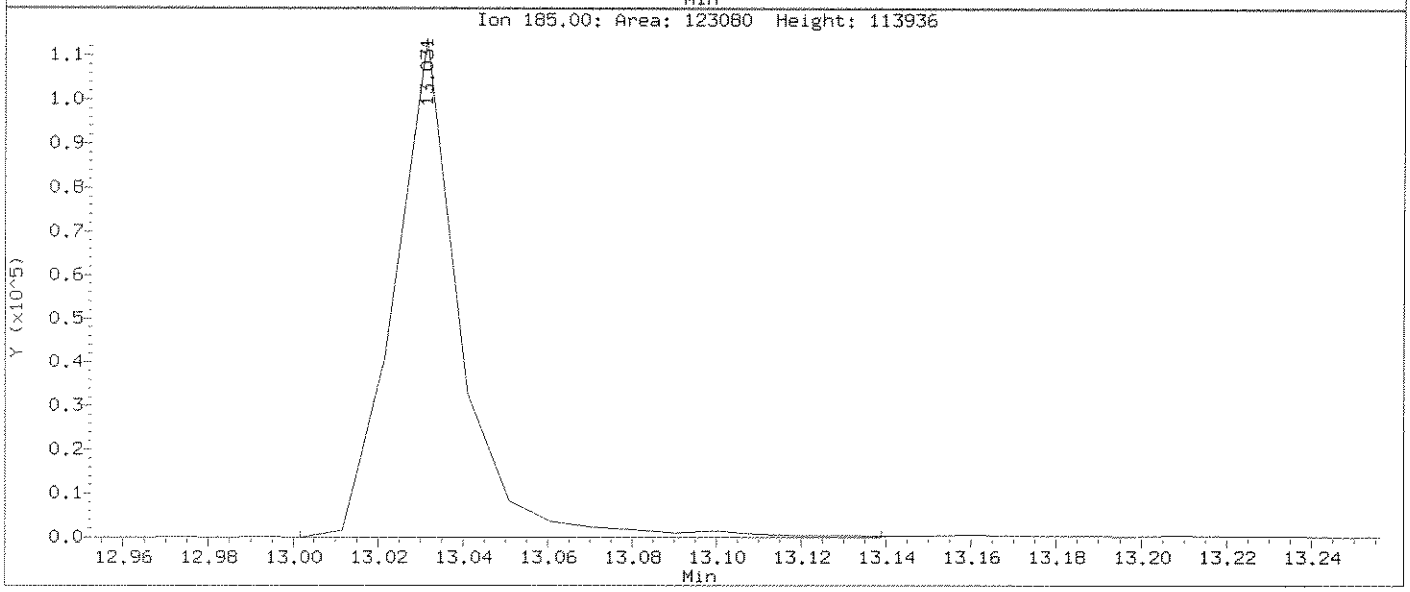


Data File: \\ELABNSHO5\TARGET\chem\bna1.i\100511B1.b\SEQ-TUN1ex.D
Injection Date: 05-OCT-2011 08:24
Instrument: bna1.i
Client Sample ID: 50ppm DFTPP

Compound: Benzidine
CAS Number: 92-87-5







Data File: \\ELABNSH05\TARGET\chem\bna1.i\100511B1.b\SEQ-TUN1ex.D
Report Date: 05-Oct-2011 09:14

Laboratory Name

Data file : \\ELABNSH05\TARGET\chem\bna1.i\100511B1.b\SEQ-TUN1ex.D
Lab Smp Id: SEQ-TUN1 Client Smp ID: 50ppm DFTPP
Inj Date : 05-OCT-2011 08:24
Operator : MEC Inst ID: bna1.i
Smp Info : DF1005B1;;;;;;11H0721
Misc Info : ;;;;;;all.sub;
Comment :
Method : \\ELABNSH05\TARGET\chem\bna1.i\100511B1.b\dftppbn1ex.m
Meth Date : 28-Sep-2011 13:14 gquick Quant Type: ESTD
Cal Date : Cal File:
Als bottle: 1 QC Sample: DFTPP
Dil Factor: 1.00000
Integrator: HP RTE Compound Sublist: all.sub
Target Version: 4.04
Processing Host: TARGET02_VM

Compounds	QUANT SIG MASS	RT	EXP RT	DLT RT	RESPONSE	CONCENTRATIONS ON-COLUMN (ng/ul)	FINAL (ng/ul)	
1 Pentachlorophenol	266	11.142	11.218	-0.076	306319			(H)
2 Benzidine	184	13.031	13.102	-0.071	830692			
4 4,4'-DDD	235	13.665	13.737	-0.072	960			(Q)
5 4,4'-DDT	235	14.034	14.099	-0.065	592757			(H)

QC Flag Legend

Q - Qualifier signal failed the ratio test.
H - Operator selected an alternate compound hit.

DDT breakdown = $\frac{960}{593717}$ = 0.2%

Data File: \\ELABNSH05\TARGET\chem\bna1.i\100511B1.b\SEQ-CCV1.D
Report Date: 06-Oct-2011 10:52

Laboratory Name

Data file : \\ELABNSH05\TARGET\chem\bna1.i\100511B1.b\SEQ-CCV1.D
Lab Smp Id: SEQ-CCV1 Client Smp ID: CCV50PPM
Inj Date : 05-OCT-2011 08:50 MS Autotune Date: 03-OCT-2011 13:34
Operator : MEC Inst ID: bna1.i
Smp Info : CCV50PPM;;;;;;11I0891
Misc Info : ;2;CCV;;;;ppbnax.sub;
Comment :
Method : \\ELABNSH05\TARGET\chem\bna1.i\100511B1.b\IXBN1.m
Meth Date : 06-Oct-2011 09:06 amonteiro Quant Type: ISTD
Cal Date : 10-SEP-2011 21:27 Cal File: SEQ-CAL9.D
Als bottle: 2 Continuing Calibration Sample
Dil Factor: 1.00000
Integrator: HP RTE Compound Sublist: ppbnax.sub
Target Version: 4.04
Processing Host: TARGET02_VM

M 10/6/11

Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	AMOUNTS CAL-AMT (ng/ul)	AMOUNTS ON-COL (ng/ul)
* 1 1,4-Dichlorobenzene-d4	152	6.707	6.707	(1.000)	734656	40.0000	
$ 2 2-Fluorophenol	112	5.039	5.039	(0.751)	1945596	50.0000	77.65
$ 3 Phenol-d6	99	6.218	6.218	(0.927)	2113232	50.0000	72.78
4 Pyridine	79	3.607	3.607	(0.538)	966372	50.0000	43.33
5 1,4-Dioxane	88	3.257	3.257	(0.486)	441989	50.0000	44.68
6 N-Nitroso-di-methylamine	42	3.568	3.568	(0.532)	536889	50.0000	49.08
7 Aniline	93	6.287	6.287	(0.937)	1363055	50.0000	44.14
10 Phenol	94	6.238	6.238	(0.930)	1145003	50.0000	42.32
11 bis(2-Chloroethyl)ether	93	6.365	6.365	(0.949)	948880	50.0000	40.23
12 2-Chlorophenol	128	6.423	6.423	(0.958)	1099593	50.0000	40.78
13 1,3-Dichlorobenzene	146	6.628	6.628	(0.988)	1292799	50.0000	44.31
14 1,4-Dichlorobenzene	146	6.726	6.726	(1.003)	1209205	50.0000	41.66
15 Benzyl alcohol	108	6.883	6.883	(1.026)	598535	50.0000	41.52
16 1,2-Dichlorobenzene	146	6.922	6.922	(1.032)	1248768	50.0000	43.36
17 2-Methylphenol	108	7.020	7.020	(1.047)	873787	50.0000	42.87
18 2,2'-Oxybis-1-chloropropane	45	7.059	7.059	(1.052)	1382736	50.0000	42.17
19 3-Methylphenol	108	7.225	7.225	(1.077)	786830	50.0000	40.49
20 4-Methylphenol	108	7.225	7.225	(1.077)	786830	50.0000	40.49
196 3-Methylphenol/4-Methylphenol	108	7.225	7.225	(1.077)	786830	50.0000	40.49
21 N-Nitroso-di-n-propylamine	70	7.235	7.235	(1.079)	515072	50.0000	44.59
22 Hexachloroethane	117	7.352	7.352	(1.096)	562374	50.0000	42.34
32 Benzaldehyde	106	6.150	6.150	(0.917)	513520	50.0000	34.63
* 33 Naphthalene-d8	136	8.349	8.349	(1.000)	2286793	40.0000	
$ 34 Nitrobenzene-d5	82	7.420	7.420	(0.889)	839379	50.0000	46.85
35 Nitrobenzene	77	7.450	7.450	(0.892)	785297	50.0000	47.34
39 Isophorone	82	7.762	7.762	(0.930)	1561076	50.0000	47.64

10/6/11

Data File: \\ELABNSH05\TARGET\chem\bna1.i\100511B1.b\SEQ-CCV1.D
Report Date: 06-Oct-2011 10:52

	Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	AMOUNTS CAL-AMT (ng/ul)	AMOUNTS ON-COL (ng/ul)
	40 2-Nitrophenol	139	7.850	7.850	(0.940)	599804	50.0000	45.30
	42 2,4-Dimethylphenol	107	7.909	7.909	(0.947)	804006	50.0000	43.40
	43 Benzoic acid	105	8.056	8.056	(0.965)	554493	50.0000	38.03
	44 bis(2-Chloroethoxy)methane	93	8.036	8.036	(0.963)	969312	50.0000	41.66
	47 2,4-Dichlorophenol	162	8.163	8.163	(0.978)	764869	50.0000	42.22
	62 2,6-Dichlorophenol	162	8.447	8.447	(1.012)	801926	50.0000	46.90
	50 1,2,4-Trichlorobenzene	180	8.270	8.270	(0.991)	880849	50.0000	49.22
	51 Naphthalene	128	8.369	8.369	(1.002)	2784718	50.0000	44.42
	52 4-Chloroaniline	127	8.447	8.447	(1.012)	1122437	50.0000	46.08
	53 Hexachlorobutadiene	225	8.525	8.525	(1.021)	514675	50.0000	46.03
	54 4-Chloro-3-methylphenol	107	9.062	9.062	(1.085)	670855	50.0000	45.24
	55 2-Methylnaphthalene	141	9.248	9.248	(1.108)	1262801	50.0000	44.92
	56 1-Methylnaphthalene	141	9.373	9.373	(1.123)	1302928	50.0000	48.93
	57 Acetophenone	105	7.225	7.225	(1.077)	1108257	50.0000	36.87
	67 1,2,4,5-Tetrachlorobenzene	216	9.460	9.460	(1.133)	837985	50.0000	53.43
	68 Caprolactam	113	8.916	8.916	(1.068)	294693	50.0000	45.68
*	69 Acenaphthene-d10	164	10.554	10.554	(1.000)	1053029	40.0000	
	70 Hexachlorocyclopentadiene	237	9.450	9.450	(0.895)	464118	50.0000	50.01
	71 2,4,6-Trichlorophenol	196	9.606	9.606	(0.910)	496026	50.0000	46.25
	72 2,4,5-Trichlorophenol	196	9.654	9.654	(0.915)	532703	50.0000	49.18
	73 2-Chloronaphthalene	162	9.869	9.869	(0.935)	1439178	50.0000	43.64
$	74 2-Fluorobiphenyl	172	9.713	9.713	(0.920)	1566435	50.0000	44.58
	75 2-Nitroaniline	65	9.995	9.995	(0.947)	321757	50.0000	43.89
	76 Dimethylphthalate	163	10.231	10.231	(0.969)	1552643	50.0000	41.90
	77 Acenaphthylene	152	10.378	10.378	(0.983)	1980757	50.0000	41.48
	78 2,6-Dinitrotoluene	165	10.299	10.299	(0.976)	406478	50.0000	40.28
	79 3-Nitroaniline	138	10.505	10.505	(0.995)	489311	50.0000	40.52
	80 Acenaphthene	153	10.594	10.594	(1.004)	1326929	50.0000	41.31
	81 2,4-Dinitrophenol	184	10.633	10.633	(1.007)	246183	50.0000	42.90
	83 4-Nitrophenol	65	10.701	10.701	(1.014)	193054	50.0000	46.47
	84 Dibenzofuran	168	10.809	10.809	(1.024)	1884214	50.0000	46.28
	85 2,4-Dinitrotoluene	165	10.799	10.799	(1.023)	518383	50.0000	42.32
	86 Diethylphthalate	149	11.102	11.102	(1.052)	1402961	50.0000	36.40
	87 4-Chlorophenyl-phenylether	204	11.229	11.229	(1.064)	598339	50.0000	44.32
	88 Fluorene	166	11.229	11.229	(1.064)	1231386	50.0000	39.85
	89 4-Nitroaniline	138	11.258	11.258	(1.067)	425972	50.0000	37.24
	96 2,3,4,6-Tetrachlorophenol	232	10.956	10.956	(1.038)	395528	50.0000	44.44
	100 1,1'-Biphenyl	154	9.840	9.840	(0.932)	1719082	50.0000	43.97
*	102 Phenanthrene-d10	188	12.385	12.385	(1.000)	1517490	40.0000	
	103 1,2-Diphenylhydrazine	77	11.423	11.423	(0.922)	1260268	50.0000	44.17
	104 Carbazole	167	12.678	12.678	(1.024)	1721840	50.0000	43.31
	105 4,6-Dinitro-2-methylphenol	198	11.297	11.297	(0.912)	300888	50.0000	40.69
	106 N-Nitrosodiphenylamine	169	11.384	11.384	(0.919)	1120627	50.0000	45.98
$	107 2,4,6-Tribromophenol	330	11.530	11.530	(0.931)	494051	50.0000	85.21
	108 4-Bromophenyl-phenylether	248	11.831	11.831	(0.955)	401776	50.0000	48.38
	109 Hexachlorobenzene	284	11.899	11.899	(0.961)	428315	50.0000	43.73
	110 Pentachlorophenol	266	12.143	12.143	(0.980)	312951	50.0000	44.15

Data File: \\ELABNSH05\TARGET\chem\bna1.i\100511B1.b\SEQ-CCV1.D
Report Date: 06-Oct-2011 10:52

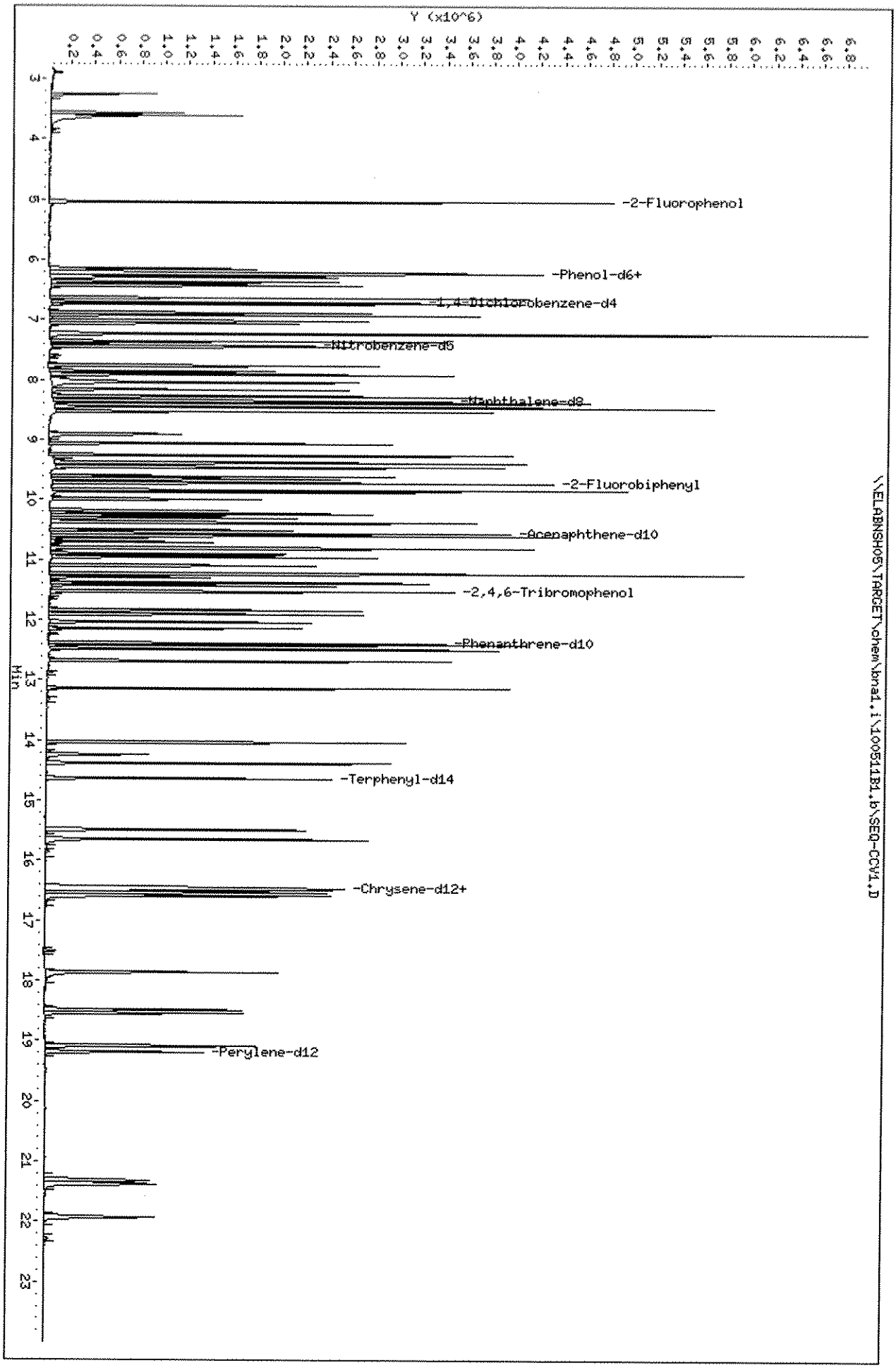
Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	AMOUNTS CAL-AMT (ng/ul)	AMOUNTS ON-COL (ng/ul)
111 Phenanthrene	178	12.415	12.415	(1.002)	1795499	50.0000	44.66
112 Anthracene	178	12.483	12.483	(1.008)	1991675	50.0000	49.50
115 Di-n-butylphthalate	149	13.136	13.136	(1.061)	2558323	50.0000	43.86
116 Fluoranthene	202	14.033	14.033	(1.133)	1875673	50.0000	48.87
129 Atrazine	200	12.036	12.036	(0.972)	294837	50.0000	38.54
* 132 Chrysene-d12	240	16.479	16.479	(1.000)	1034228	40.0000	
133 Benzidine	184	14.239	14.239	(0.864)	476630	50.0000	36.31
134 Pyrene	202	14.375	14.375	(0.872)	1743823	50.0000	46.42
$ 135 Terphenyl-d14	244	14.628	14.628	(0.888)	1085085	50.0000	51.87
136 Butylbenzylphthalate	149	15.487	15.487	(0.940)	991083	50.0000	39.11
137 3,3'-Dichlorobenzidine	252	16.433	16.433	(0.997)	439033	50.0000	46.42
138 Benzo(a)anthracene	228	16.460	16.460	(0.999)	1403430	50.0000	44.81
139 Chrysene	228	16.525	16.525	(1.003)	1403506	50.0000	46.43
140 Bis(2-ethylhexyl)phthalate	149	16.583	16.583	(1.006)	1332963	50.0000	37.84
* 154 Perylene-d12	264	19.191	19.191	(1.000)	803876	40.0000	
155 Di-n-octylphthalate	149	17.863	17.863	(0.931)	2214902	50.0000	41.73
156 Benzo(b)fluoranthene	252	18.489	18.489	(0.963)	1079449	50.0000	44.86
157 Benzo(k)fluoranthene	252	18.548	18.548	(0.966)	1076084	50.0000	43.92
158 Benzo(a)pyrene	252	19.085	19.085	(0.994)	1069615	50.0000	49.21
159 Indeno(1,2,3-cd)pyrene	276	21.317	21.317	(1.111)	737745	50.0000	47.19
160 Dibenz(a,h)anthracene	278	21.374	21.374	(1.114)	748853	50.0000	47.80
161 Benzo(g,h,i)perylene	276	21.929	21.929	(1.143)	790686	50.0000	48.65

Data File: \\ELABNSH05\TARGET\chem\bna1.i\100511B1.b\SEQ-CCV1.D
Date : 05-OCT-2011 08:50
Client ID: CCV50PPM
Sample Info: CCV50PPM;;;;;;;;11I0891

Column phase: fused silica

Instrument: bna1.i

Operator: MEC
Column diameter: 0.25



Data File: \\ELABNSH05\TARGET\chem\bna1.i\100511B1.b\J03003L1.D
Report Date: 06-Oct-2011 10:08

Laboratory Name

Data file : \\ELABNSH05\TARGET\chem\bna1.i\100511B1.b\J03003L1.D
Lab Smp Id: 1J03003-BS1 Client Smp ID: 1J03003-BS1
Inj Date : 05-OCT-2011 10:07 MS Autotune Date: 03-OCT-2011 13:34
Operator : MEC Inst ID: bna1.i
Smp Info : 1J03003-BS1;;1000;1000;UG/L;;03-OCT-2011
Misc Info : ;3;LCS;;;1J03003;ppbnax.sub;
Comment :
Method : \\ELABNSH05\TARGET\chem\bna1.i\100511B1.b\IXBN1.m
Meth Date : 06-Oct-2011 09:06 amonteiro Quant Type: ISTD
Cal Date : 10-SEP-2011 21:27 Cal File: SEQ-CAL9.D
Als bottle: 3 QC Sample: LCS
Dil Factor: 1.00000
Integrator: HP RTE Compound Sublist: ppbnax.sub
Target Version: 4.04
Processing Host: TARGET02_VM

Concentration Formula: Amt * DF * Uf * Vt* Vi/(Amt * Vi)

Name	Value	Description
DF	1.000	Dilution Factor
Uf	0.000	ng unit correction factor
Vt	1000.000	Volume of final extract (uL)
Vi	0.500	Volume injected (uL)
Amt	1000.000	Volume of initial extraction

Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS ON-COLUMN (ng/ul)	FINAL (ug/L)
* 1 1,4-Dichlorobenzene-d4	152	6.709	6.707	(1.000)	641311	40.0000	
$ 2 2-Fluorophenol	112	5.042	5.039	(0.752)	676493	30.9304	30.93
$ 3 Phenol-d6	99	6.212	6.218	(0.926)	464786	18.3379	18.34
4 Pyridine	79	3.618	3.607	(0.539)	300502	15.4351	15.44(a)
5 1,4-Dioxane	88	3.267	3.257	(0.487)	135554	15.6975	15.70
6 N-Nitroso-di-methylamine	42	3.569	3.568	(0.532)	181156	18.9732	18.97
7 Aniline	93	6.280	6.287	(0.936)	713336	26.4654	26.46
10 Phenol	94	6.222	6.238	(0.927)	254064	10.7584	10.76
11 bis(2-Chloroethyl)ether	93	6.358	6.365	(0.948)	873069	42.4031	42.40
12 2-Chlorophenol	128	6.427	6.423	(0.958)	708442	30.1002	30.10
13 1,3-Dichlorobenzene	146	6.631	6.628	(0.988)	611137	23.9940	23.99
14 1,4-Dichlorobenzene	146	6.728	6.726	(1.003)	647006	25.5364	25.54
15 Benzyl alcohol	108	6.875	6.883	(1.025)	303010	24.0796	24.08
16 1,2-Dichlorobenzene	146	6.923	6.922	(1.032)	681180	27.0950	27.09

Data File: \\ELABNSH05\TARGET\chem\bna1.i\100511B1.b\J03003L1.D
Report Date: 06-Oct-2011 10:08

	Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS ON-COLUMN (ng/ul)	FINAL (ug/L)
	17 2-Methylphenol	108	7.011	7.020	(1.045)	455990	25.6287	25.63
	18 2,2'-Oxybis-1-chloropropane	45	7.060	7.059	(1.052)	1245548	43.5188	43.52
	19 3-Methylphenol	108	7.216	7.225	(1.076)	353440	20.8351	20.84
	20 4-Methylphenol	108	7.216	7.225	(1.076)	353440	20.8351	20.84
	196 3-Methylphenol/4-Methylphenol	108	7.216	7.225	(1.076)	353440	20.8351	20.84
	21 N-Nitroso-di-n-propylamine	70	7.226	7.235	(1.077)	458304	45.4483	45.45
	22 Hexachloroethane	117	7.353	7.352	(1.096)	186948	16.1224	16.12
	32 Benzaldehyde	106	6.144	6.150	(0.916)	691204	53.3945	53.39
*	33 Naphthalene-d8	136	8.341	8.349	(1.000)	1978656	40.0000	
$	34 Nitrobenzene-d5	82	7.422	7.420	(0.890)	697729	45.0069	45.01
	35 Nitrobenzene	77	7.442	7.450	(0.892)	658990	45.9164	45.92
	39 Isophorone	82	7.754	7.762	(0.930)	1314763	46.3768	46.38
	40 2-Nitrophenol	139	7.852	7.850	(0.941)	514879	44.9413	44.94
	42 2,4-Dimethylphenol	107	7.911	7.909	(0.948)	594063	37.0602	37.06
	43 Benzoic acid	105	7.960	8.056	(0.954)	7194	5.02215	5.022(aQM)
	44 bis(2-Chloroethoxy)methane	93	8.038	8.036	(0.964)	1146274	56.9352	56.94(R)
	47 2,4-Dichlorophenol	162	8.155	8.163	(0.978)	597538	38.1168	38.12
	62 2,6-Dichlorophenol	162	8.449	8.447	(1.013)	635931	42.9872	42.99
	50 1,2,4-Trichlorobenzene	180	8.273	8.270	(0.992)	443388	28.6360	28.64
	51 Naphthalene	128	8.370	8.369	(1.003)	1934072	35.6518	35.65
	52 4-Chloroaniline	127	8.439	8.447	(1.012)	831679	39.4649	39.46
	53 Hexachlorobutadiene	225	8.527	8.525	(1.022)	216775	22.4055	22.40
	54 4-Chloro-3-methylphenol	107	9.055	9.062	(1.086)	481556	37.5276	37.53
	55 2-Methylnaphthalene	141	9.250	9.248	(1.109)	981689	40.3605	40.36
	56 1-Methylnaphthalene	141	9.378	9.373	(1.124)	1017230	44.1464	44.15
	57 Acetophenone	105	7.226	7.225	(1.077)	1033201	39.3759	39.38
	67 1,2,4,5-Tetrachlorobenzene	216	9.465	9.460	(1.135)	756921	55.7734	55.77
	68 Caprolactam	113	8.879	8.916	(1.064)	47297	8.47252	8.472(R)
*	69 Acenaphthene-d10	164	10.550	10.554	(1.000)	764480	40.0000	
	70 Hexachlorocyclopentadiene	237	9.446	9.450	(0.895)	151851	22.5404	22.54
	71 2,4,6-Trichlorophenol	196	9.642	9.654	(0.914)	403779	51.8563	51.86
	72 2,4,5-Trichlorophenol	196	9.642	9.654	(0.914)	403779	51.3526	51.35
	73 2-Chloronaphthalene	162	9.866	9.869	(0.935)	1059990	44.2730	44.27
$	74 2-Fluorobiphenyl	172	9.719	9.713	(0.921)	1348065	52.8509	52.85
	75 2-Nitroaniline	65	9.993	9.995	(0.947)	314206	59.0393	59.04(R)
	76 Dimethylphthalate	163	10.219	10.231	(0.969)	1578273	58.6632	58.66
	77 Acenaphthylene	152	10.374	10.378	(0.983)	1745703	50.3607	50.36
	78 2,6-Dinitrotoluene	165	10.296	10.299	(0.976)	395022	53.9131	53.91
	79 3-Nitroaniline	138	10.501	10.505	(0.995)	346068	39.4770	39.48
	80 Acenaphthene	153	10.598	10.594	(1.005)	1111641	47.6739	47.67
	81 2,4-Dinitrophenol	184	10.637	10.633	(1.008)	119708	31.0814	31.08(a)
	83 4-Nitrophenol	65	10.696	10.701	(1.014)	31864	10.5649	10.56(aM)
	84 Dibenzofuran	168	10.814	10.809	(1.025)	1556311	52.6517	52.65(R)
	85 2,4-Dinitrotoluene	165	10.794	10.799	(1.023)	439235	49.3928	49.39
	86 Diethylphthalate	149	11.095	11.102	(1.052)	1593322	56.9359	56.94
	87 4-Chlorophenyl-phenylether	204	11.233	11.229	(1.065)	628570	64.1328	64.13(R)
	88 Fluorene	166	11.233	11.229	(1.065)	1243441	55.4342	55.43(R)

Data File: \\ELABNSH05\TARGET\chem\bna1.i\100511B1.b\J03003L1.D
Report Date: 06-Oct-2011 10:08

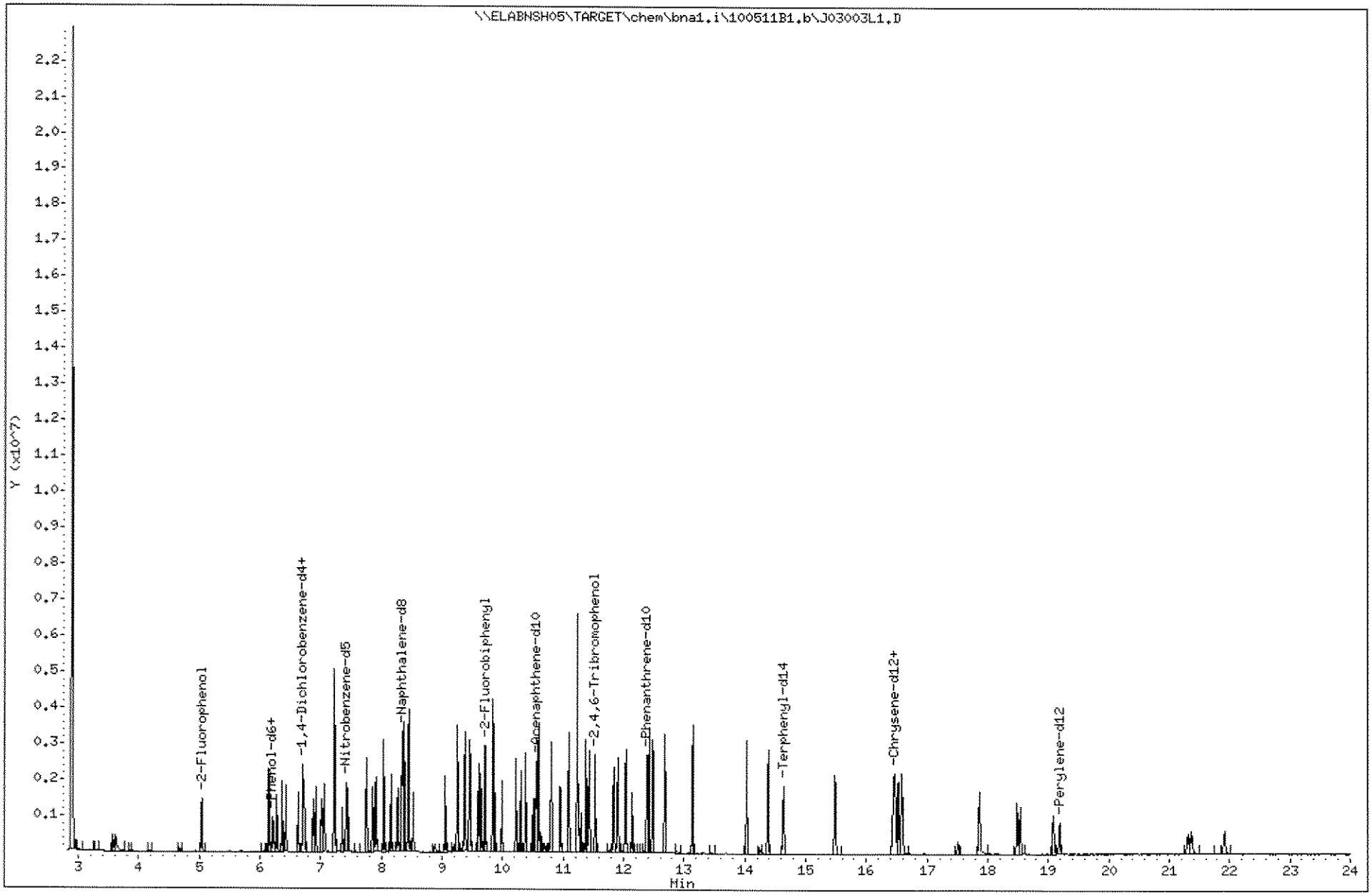
Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS ON-COLUMN (ng/ul)	FINAL (ug/L)
89 4-Nitroaniline	138	11.252	11.297	(1.067)	366248	44.1070	44.11(QM)
96 2,3,4,6-Tetrachlorophenol	232	10.959	10.956	(1.039)	343754	53.1968	53.20
100 1,1'-Biphenyl	154	9.836	9.840	(0.932)	1705378	60.0897	60.09(R)
* 102 Phenanthrene-d10	188	12.387	12.385	(1.000)	1211622	40.0000	
103 1,2-Diphenylhydrazine	77	11.427	11.423	(0.923)	1235702	54.2441	54.24
104 Carbazole	167	12.681	12.678	(1.024)	1694692	53.3911	53.39
105 4,6-Dinitro-2-methylphenol	198	11.291	11.297	(0.912)	210138	36.0423	36.04
106 N-Nitrosodiphenylamine	169	11.379	11.384	(0.919)	874466	44.9423	44.94
$ 107 2,4,6-Tribromophenol	330	11.534	11.530	(0.931)	385488	83.2743	83.27
108 4-Bromophenyl-phenylether	248	11.836	11.831	(0.956)	364660	54.9974	55.00
109 Hexachlorobenzene	284	11.904	11.899	(0.961)	394412	50.4344	50.43
110 Pentachlorophenol	266	12.145	12.143	(0.980)	249880	44.1542	44.15
111 Phenanthrene	178	12.417	12.415	(1.002)	1574728	49.0523	49.05
112 Anthracene	178	12.475	12.483	(1.007)	1674420	52.1156	52.12
115 Di-n-butylphthalate	149	13.139	13.136	(1.061)	2539958	54.5336	54.53
116 Fluoranthene	202	14.028	14.033	(1.132)	1719948	56.1302	56.13
129 Atrazine	200	12.039	12.036	(0.972)	411559	67.3808	67.38(R)
* 132 Chrysene-d12	240	16.473	16.479	(1.000)	748358	40.0000	
133 Benzidine	184	14.243	14.239	(0.865)	139548	14.6938	14.69(a)
134 Pyrene	202	14.379	14.375	(0.873)	1647284	60.6021	60.60
$ 135 Terphenyl-d14	244	14.632	14.628	(0.888)	804800	53.1655	53.16
136 Butylbenzylphthalate	149	15.480	15.487	(0.940)	971242	52.9666	52.97
137 3,3'-Dichlorobenzidine	252	16.436	16.433	(0.998)	330833	48.3461	48.35
138 Benzo(a)anthracene	228	16.454	16.525	(0.999)	1237629	54.6155	54.62(H)
139 Chrysene	228	16.529	16.525	(1.003)	1244894	56.9160	56.92(R)
140 Bis(2-ethylhexyl)phthalate	149	16.586	16.583	(1.007)	1236624	48.5182	48.52
* 154 Perylene-d12	264	19.187	19.191	(1.000)	490527	40.0000	
155 Di-n-octylphthalate	149	17.858	17.863	(0.931)	1762514	53.3786	53.38
156 Benzo(b)fluoranthene	252	18.484	18.489	(0.963)	867596	59.0961	59.10
157 Benzo(k)fluoranthene	252	18.542	18.548	(0.966)	873570	58.4301	58.43
158 Benzo(a)pyrene	252	19.080	19.085	(0.994)	663106	49.9951	50.00
159 Indeno(1,2,3-cd)pyrene	276	21.305	21.317	(1.110)	460586	48.2792	48.28
160 Dibenz(a,h)anthracene	278	21.372	21.374	(1.114)	489477	51.2009	51.20
161 Benzo(g,h,i)perylene	276	21.918	21.929	(1.142)	508880	51.3169	51.32

QC Flag Legend

a - Target compound detected but, quantitated amount
    Below Limit Of Quantitation(BLOQ).
Q - Qualifier signal failed the ratio test.
R - Spike/Surrogate failed recovery limits.
M - Compound response manually integrated.
H - Operator selected an alternate compound hit.

Data File: \\ELABNSH05\TARGET\chem\bna1.i\100511B1.b\J03003L1.D
Date : 05-OCT-2011 10:07
Client ID: 1J03003-BS1
Sample Info: 1J03003-BS1;;1000;1000;UG/L;;03-OCT-2011
Volume Injected (uL): 0.5
Column phase: fused silica

Instrument: bna1.i
Operator: MEC
Column diameter: 0.25



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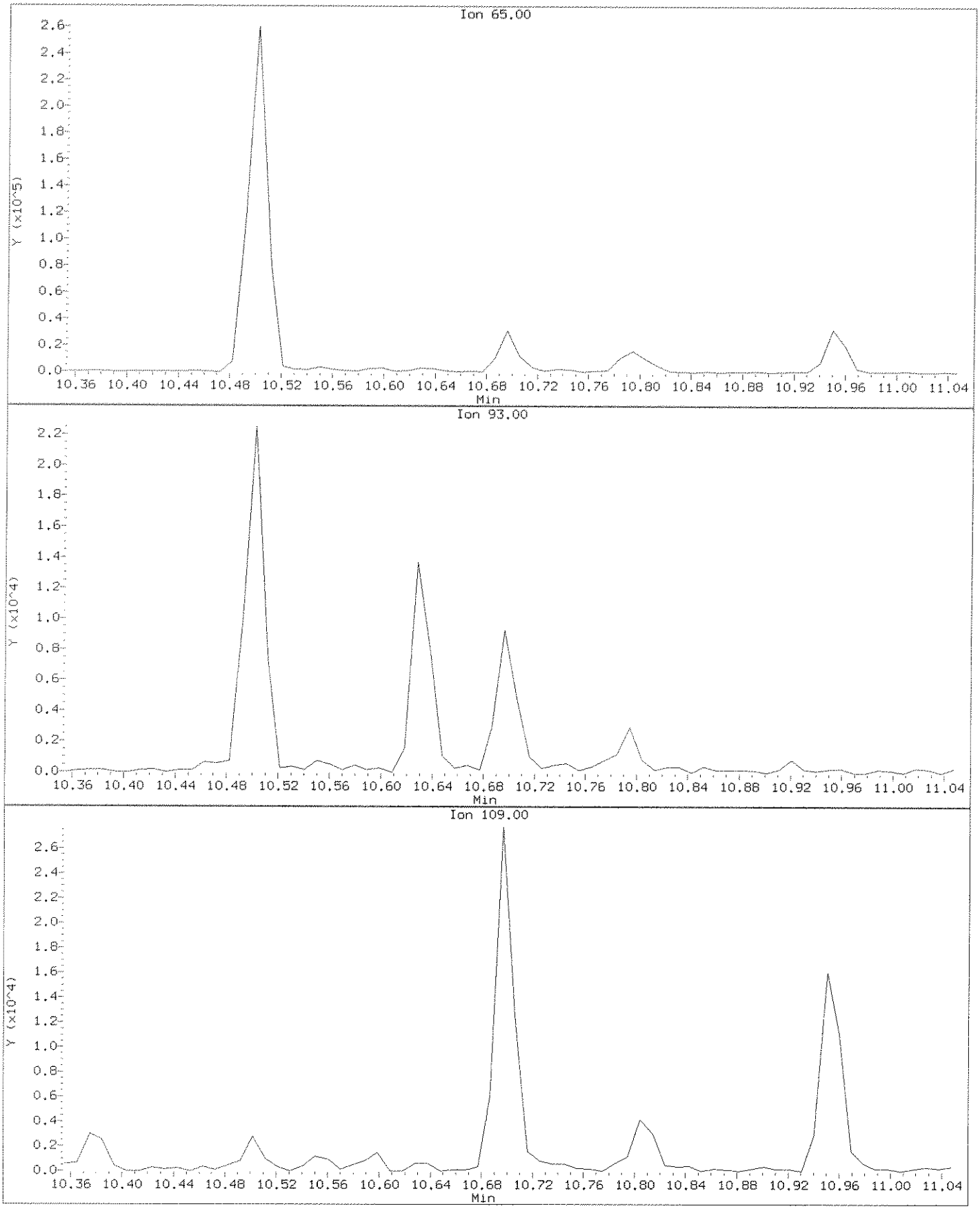
Injection Date: 05-OCT-2011 10:07
Instrument: bna1.i
Client Sample ID: 1J03003-BS1

Compound: 4-Nitrophenol
CAS Number: 100-02-7



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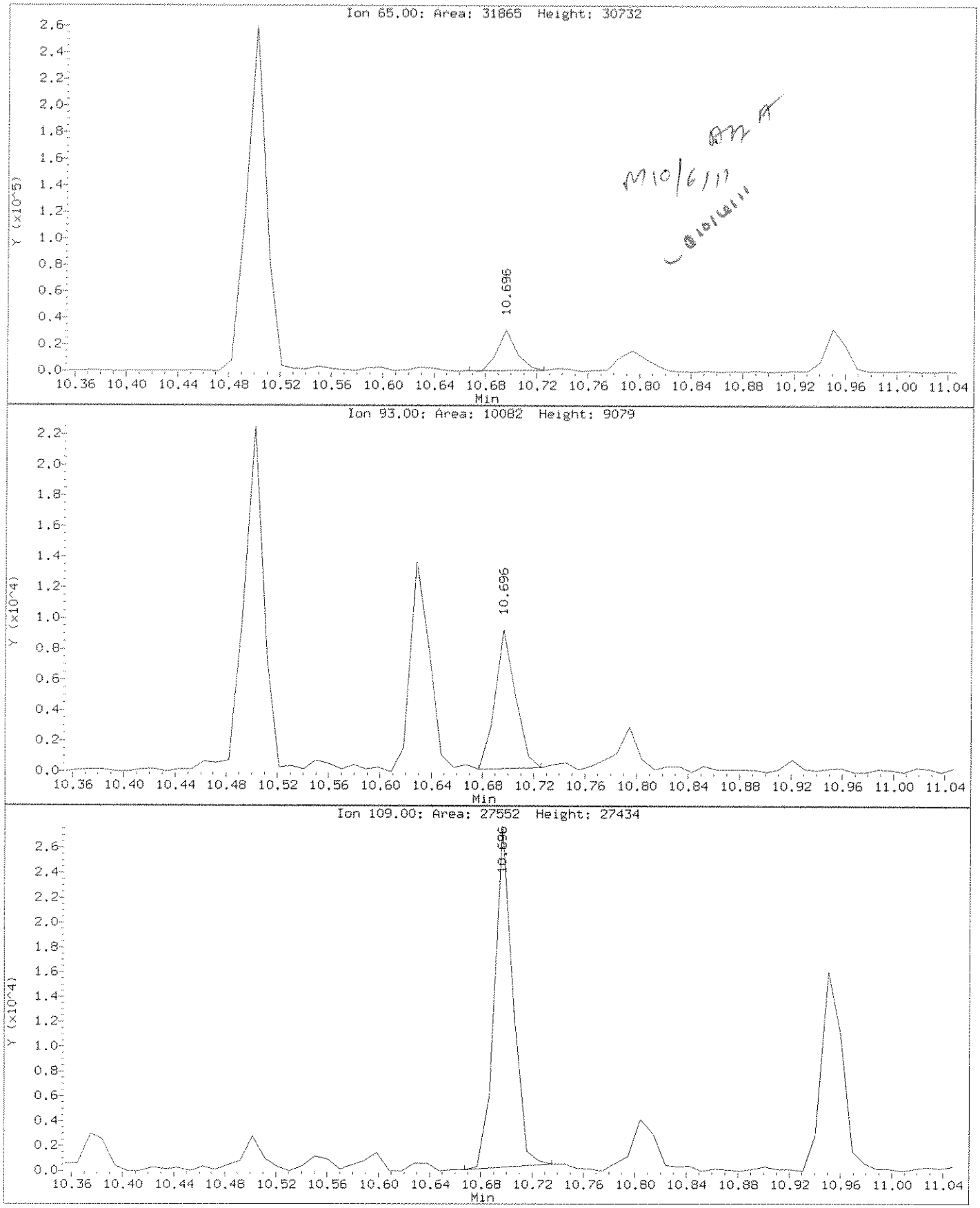
Client Sample ID: 1J03003-BS1

Compound: 4-Nitrophenol
CAS Number: 100-02-7



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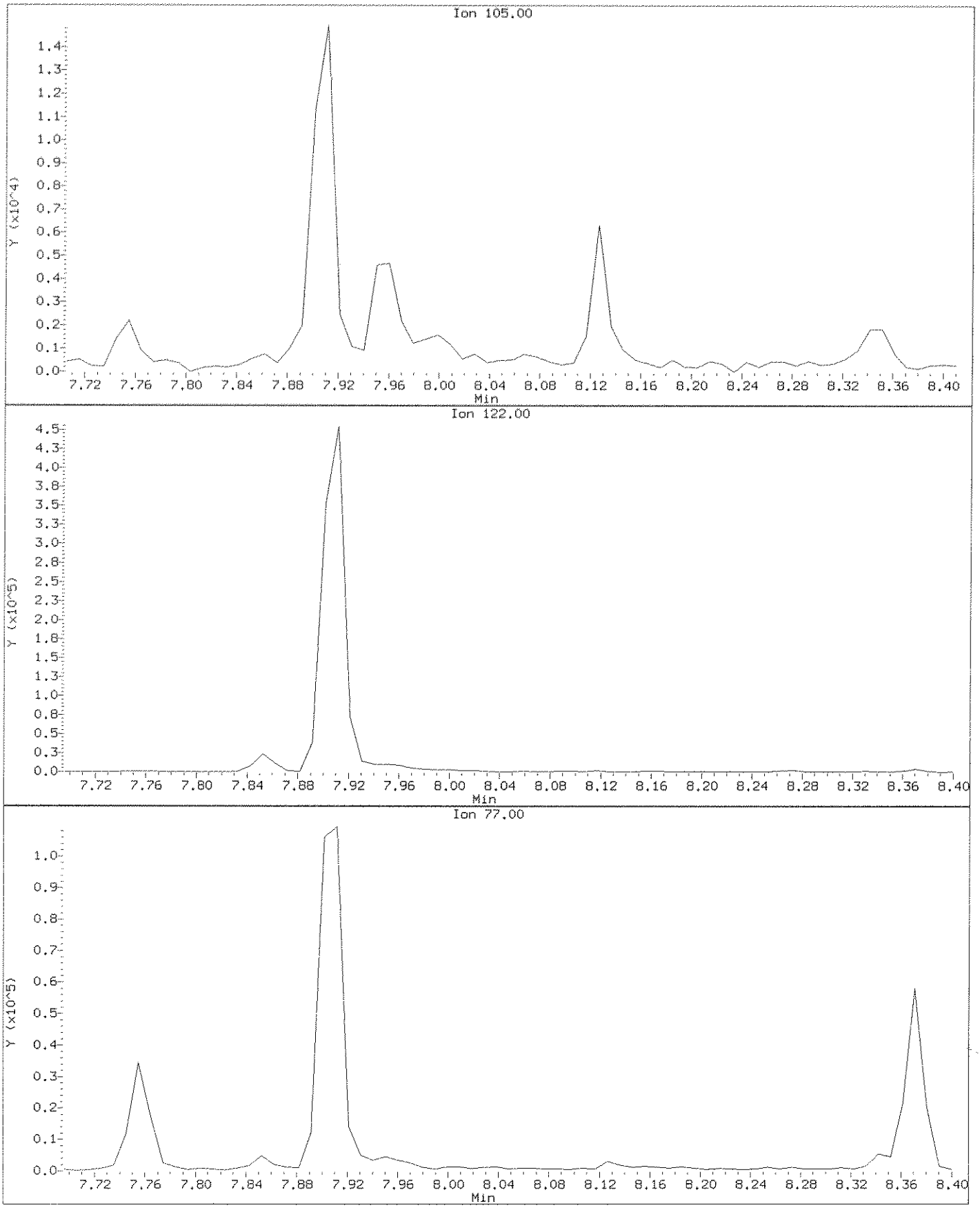
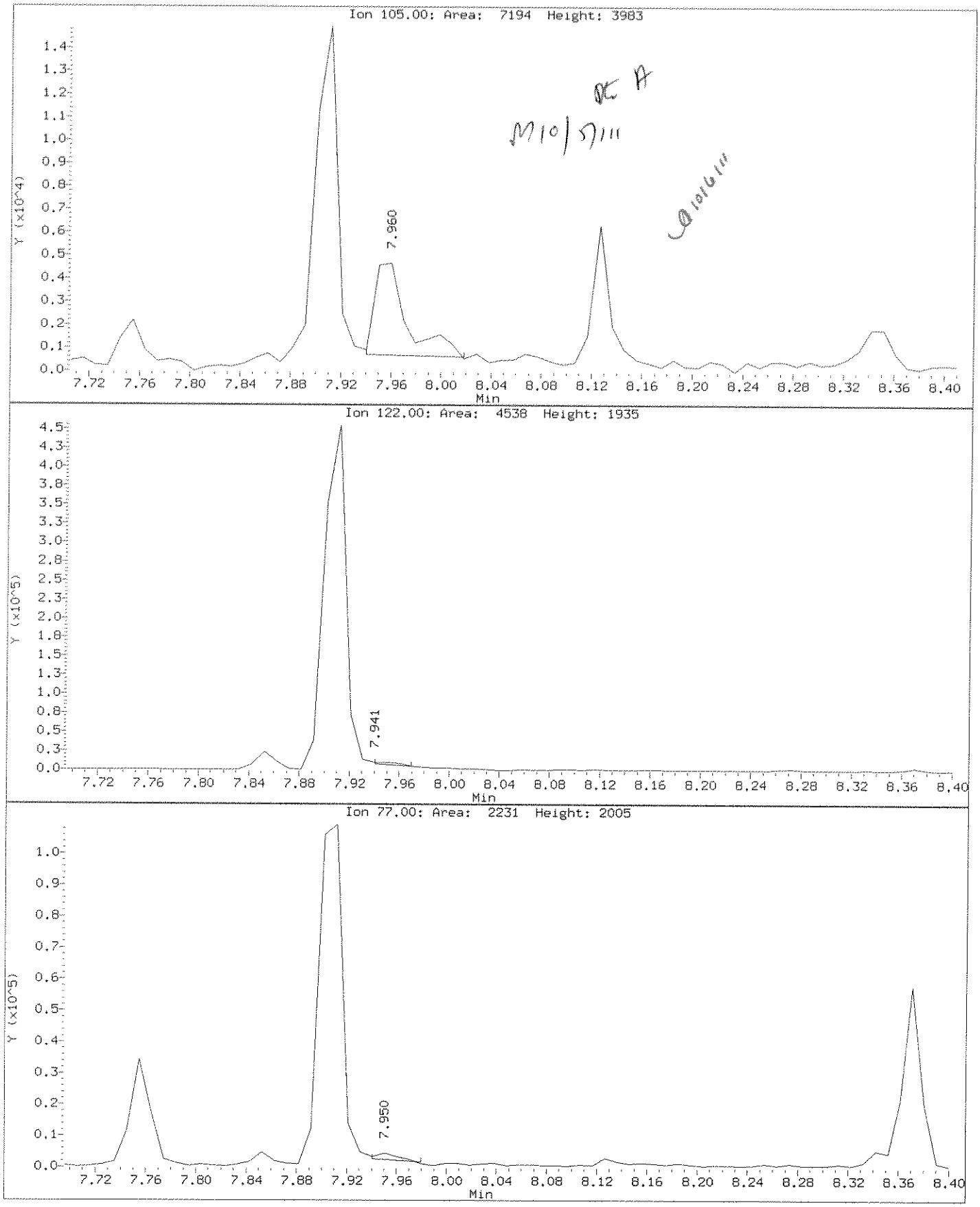
Injection Date: 05-OCT-2011 10:07
Instrument: bna1.i
Client Sample ID: 1J03003-BS1

Compound: Benzoic acid
CAS Number: 65-85-0



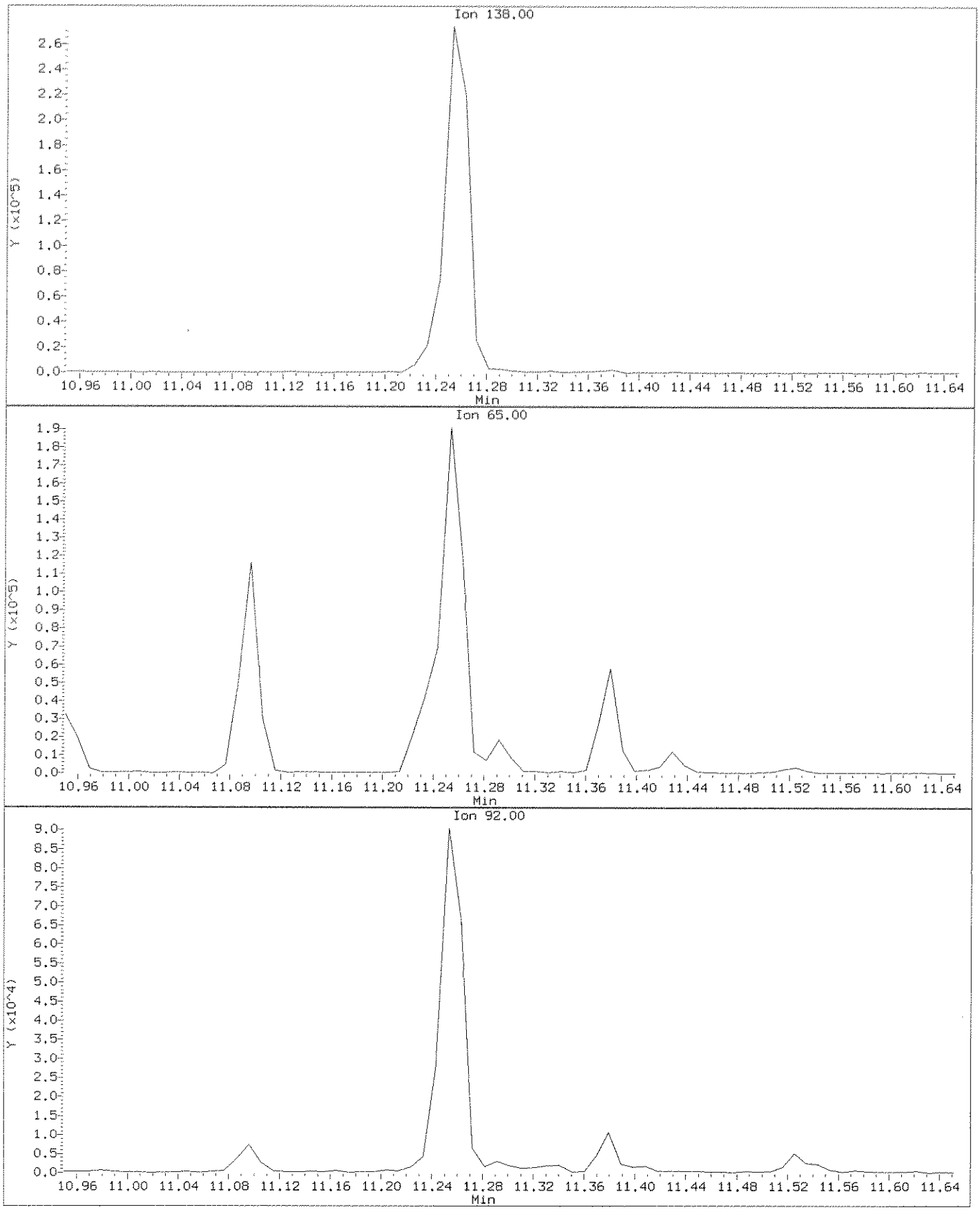
Data File: \\ELABNSHO5\TARGET\chem\bna1.i\100511B1.b\J03003L1.D
Injection Date: 05-OCT-2011 10:07
Instrument: bna1.i
Client Sample ID: 1J03003-BS1

Compound: Benzoic acid
CAS Number: 65-85-0



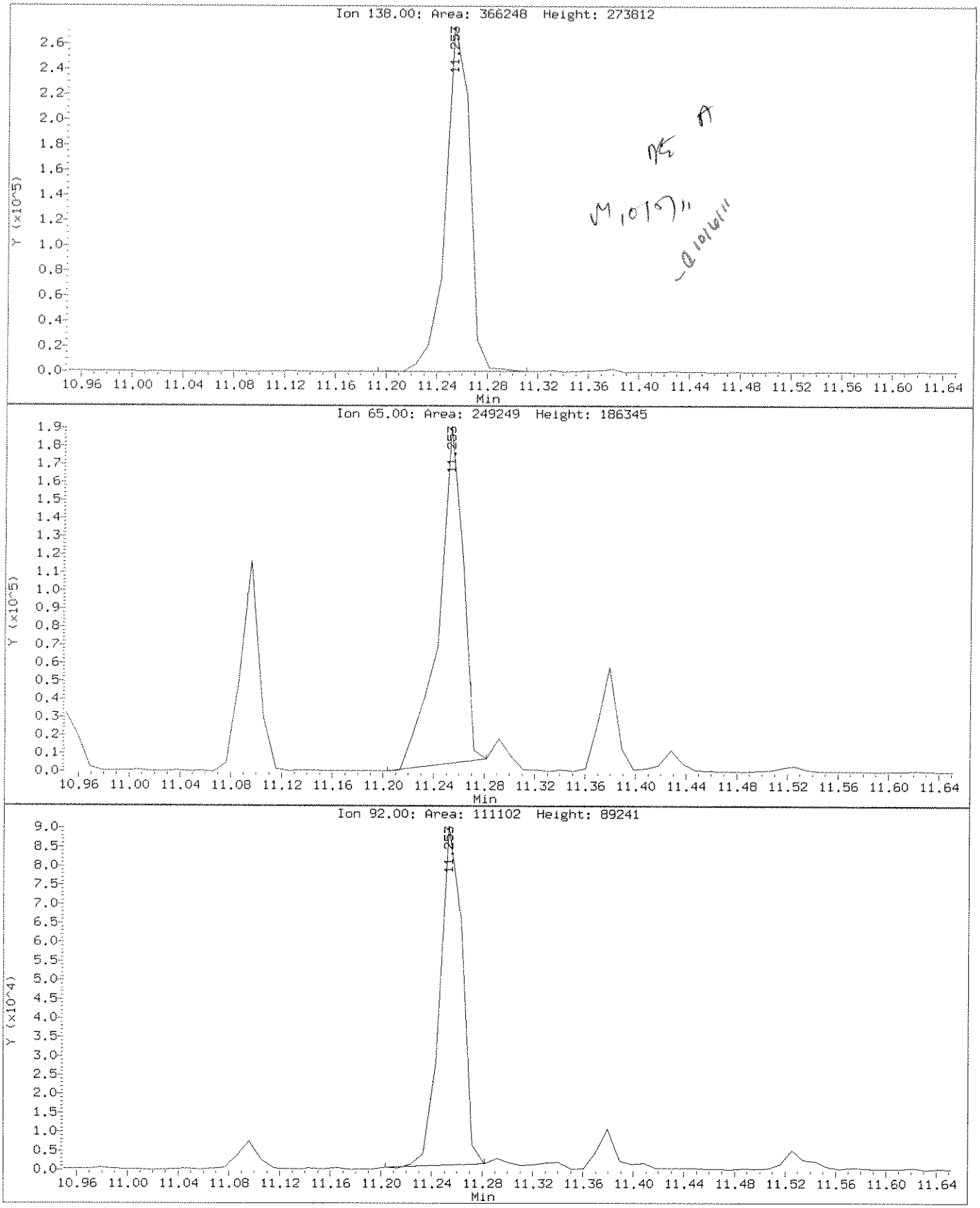
Data File: \\ELABNSHO5\TARGET\chem\bna1.i\100511B1.b\J03003L1.D
Injection Date: 05-OCT-2011 10:07
Instrument: bna1.i
Client Sample ID: 1J03003-BS1

Compound: 4-Nitroaniline
CAS Number: 100-01-6



Data File: \\ELABNSH05\TARGET\chem\bna1.i\100511B1.b\J03003L1.D
Injection Date: 05-OCT-2011 10:07
Instrument: bna1.i
Client Sample ID: 1J03003-BS1

Compound: 4-Nitroaniline
CAS Number: 100-01-6



Data File: \\ELABNSH05\TARGET\chem\bna1.i\100511B1.b\J03003B1.D
Report Date: 05-Oct-2011 11:01

Laboratory Name

Data file : \\ELABNSH05\TARGET\chem\bna1.i\100511B1.b\J03003B1.D
Lab Smp Id: 1J03003-BLK1 Client Smp ID: 1J03003-BLK1
Inj Date : 05-OCT-2011 10:41 MS Autotune Date: 03-OCT-2011 13:34
Operator : MEC Inst ID: bna1.i
Smp Info : 1J03003-BLK1;;1000;1000;UG/L;;03-OCT-2011
Misc Info : ;3;BLANK;;;1J03003;ppbnax.sub;
Comment :
Method : \\ELABNSH05\TARGET\chem\bna1.i\100511B1.b\IXBN1.m
Meth Date : 05-Oct-2011 09:01 amonteiro Quant Type: ISTD
Cal Date : 10-SEP-2011 21:27 Cal File: SEQ-CAL9.D
Als bottle: 4 QC Sample: BLANK
Dil Factor: 1.00000
Integrator: HP RTE Compound Sublist: ppbnax.sub
Target Version: 4.04
Processing Host: TARGET02_VM

Concentration Formula: Amt * DF * Uf * Vt* Vi/(Amt * Vi)

Name	Value	Description
DF	1.000	Dilution Factor
Uf	0.000	ng unit correction factor
Vt	1000.000	Volume of final extract (uL)
Vi	0.500	Volume injected (uL)
Amt	1000.000	Volume of initial extraction

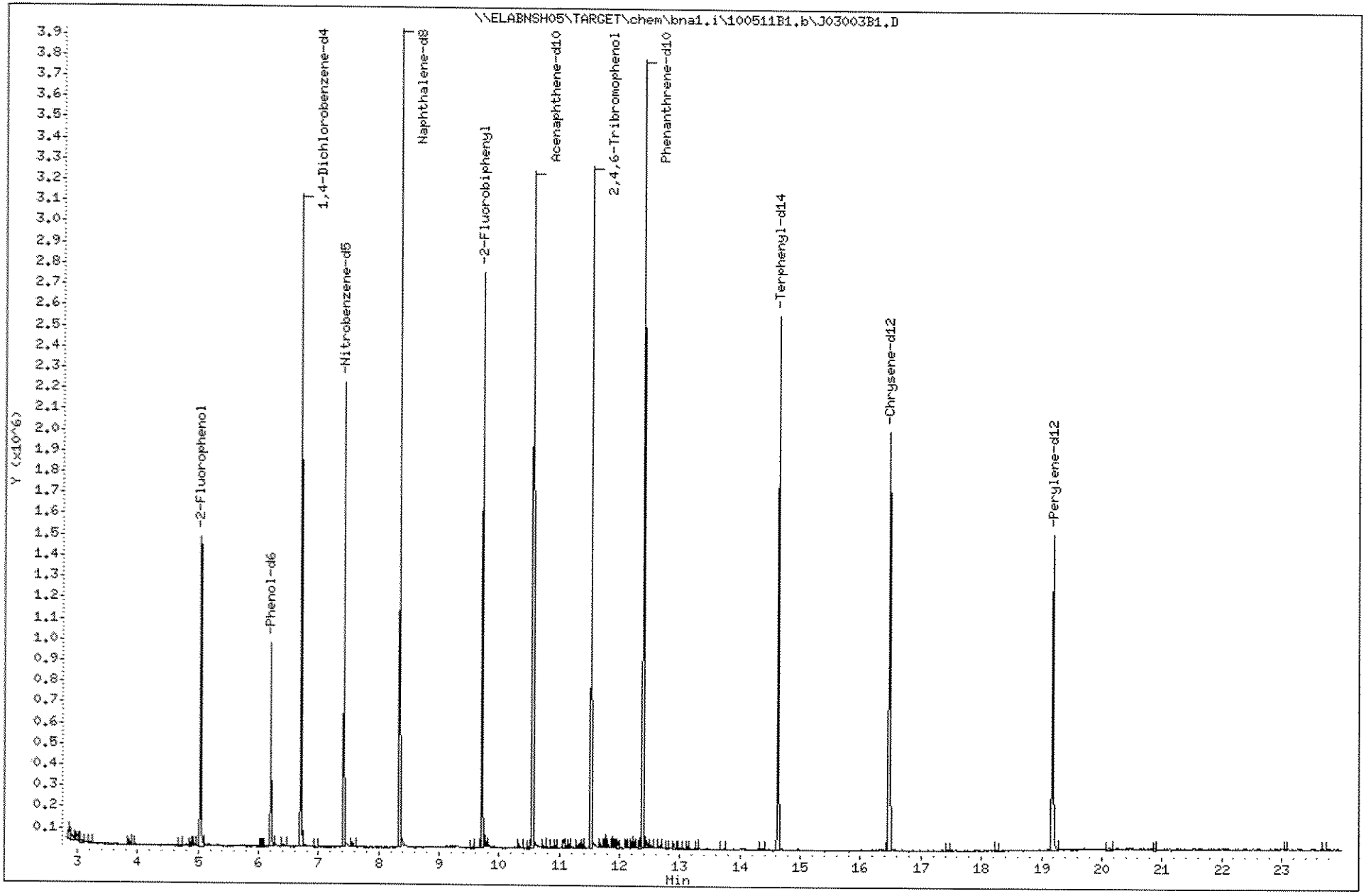
10/5/11

Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS ON-COLUMN (ng/ul)	FINAL (ug/L)
* 1 1,4-Dichlorobenzene-d4	152	6.707	6.707	(1.000)	755996	40.0000	
$ 2 2-Fluorophenol	112	5.040	5.039	(0.751)	716739	27.7992	27.80
$ 3 Phenol-d6	99	6.200	6.218	(0.924)	461145	15.4342	15.43
* 33 Naphthalene-d8	136	8.343	8.349	(1.000)	2225675	40.0000	
$ 34 Nitrobenzene-d5	82	7.418	7.420	(0.889)	746279	42.7959	42.80
* 69 Acenaphthene-d10	164	10.547	10.554	(1.000)	1072185	40.0000	
$ 74 2-Fluorobiphenyl	172	9.718	9.713	(0.921)	1217317	34.0284	34.03
* 102 Phenanthrene-d10	188	12.383	12.385	(1.000)	1552959	40.0000	
$ 107 2,4,6-Tribromophenol	330	11.524	11.530	(0.931)	457653	77.1336	77.13
* 132 Chrysene-d12	240	16.468	16.479	(1.000)	1080589	40.0000	
$ 135 Terphenyl-d14	244	14.626	14.628	(0.888)	1168496	53.4586	53.46
* 154 Perylene-d12	264	19.183	19.191	(1.000)	847455	40.0000	

Data File: \\ELABNSH05\TARGET\chem\bna1.i\100511B1.b\J03003B1.D
Date : 05-OCT-2011 10:41
Client ID: 1J03003-BLK1
Sample Info: 1J03003-BLK1;;1000;1000;UG/L;;03-OCT-2011
Volume Injected (uL): 0.5
Column phase: fused silica

Instrument: bna1.i

Operator: MEC
Column diameter: 0.25



Data File: \\ELABNSH05\TARGET\chem\bna1.i\100511B1.b\1000301.D
Report Date: 05-Oct-2011 13:11

Laboratory Name

Data file : \\ELABNSH05\TARGET\chem\bna1.i\100511B1.b\1000301.D
Lab Smp Id: 1110003-01
Inj Date : 05-OCT-2011 13:00 MS Autotune Date: 03-OCT-2011 13:34
Operator : MEC Inst ID: bna1.i
Smp Info : 1110003-01;;1000;1000;UG/L;;03-OCT-2011
Misc Info : ;0;;;;1J03003;ppbnax.sub;
Comment :
Method : \\ELABNSH05\TARGET\chem\bna1.i\100511B1.b\IXBN1.m
Meth Date : 05-Oct-2011 09:01 amonteiro Quant Type: ISTD
Cal Date : 10-SEP-2011 21:27 Cal File: SEQ-CAL9.D
Als bottle: 8
Dil Factor: 1.00000
Integrator: HP RTE Compound Sublist: ppbnax.sub
Target Version: 4.04
Processing Host: TARGET02_VM

Concentration Formula: Amt * DF * Uf * Vt* Vi/(Amt * Vi)

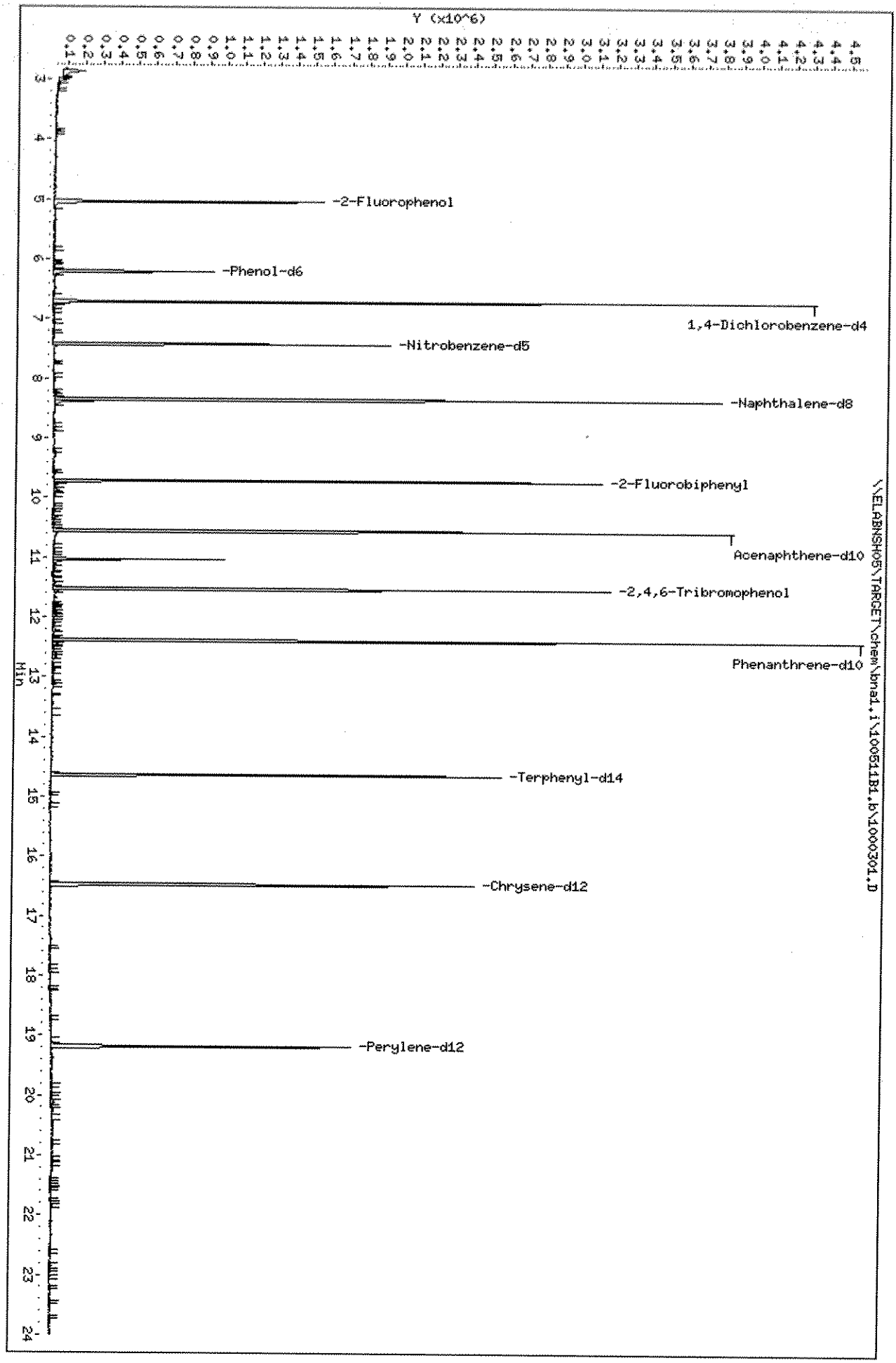
Name	Value	Description
DF	1.000	Dilution Factor
Uf	0.000	ng unit correction factor
Vt	1000.000	Volume of final extract (uL)
Vi	0.500	Volume injected (uL)
Amt	1000.000	Volume of initial extraction

M10/5/11

Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS ON-COLUMN (ng/ul)	FINAL (ug/L)
* 1 1,4-Dichlorobenzene-d4	152	6.707	6.707	(1.000)	955479	40.0000	
$ 2 2-Fluorophenol	112	5.035	5.039	(0.751)	671133	20.5958	20.60
$ 3 Phenol-d6	99	6.208	6.218	(0.926)	444915	11.7821	11.78
* 33 Naphthalene-d8	136	8.349	8.349	(1.000)	2634858	40.0000	
$ 34 Nitrobenzene-d5	82	7.417	7.420	(0.888)	656931	31.8218	31.82
* 69 Acenaphthene-d10	164	10.550	10.554	(1.000)	1185034	40.0000	
$ 74 2-Fluorobiphenyl	172	9.717	9.713	(0.921)	1264731	31.9871	31.99
* 102 Phenanthrene-d10	188	12.387	12.385	(1.000)	1973164	40.0000	
$ 107 2,4,6-Tribromophenol	330	11.530	11.530	(0.931)	507879	67.3698	67.37
* 132 Chrysene-d12	240	16.474	16.479	(1.000)	1356838	40.0000	
$ 135 Terphenyl-d14	244	14.636	14.628	(0.888)	1129605	41.1576	41.16
* 154 Perylene-d12	264	19.185	19.191	(1.000)	975974	40.0000	

Data File: \\ELABNSH05\TARGET\chem\bna1.i\100511B1.b\1000301.D
Date : 05-OCT-2011 13:00
Client ID:
Sample Info: 1110003-01;1000;1000;UG/L;03-OCT-2011
Volume Injected (uL): 0.5
Column phase: fused silica

Instrument: bna1.i
Operator: MEC
Column diameter: 0.25



Data File: \\ELABNSH05\TARGET\chem\bna1.i\100511B1.b\1000303.D
Report Date: 05-Oct-2011 14:04

Laboratory Name

Data file : \\ELABNSH05\TARGET\chem\bna1.i\100511B1.b\1000303.D
Lab Smp Id: 1110003-03
Inj Date : 05-OCT-2011 13:34 MS Autotune Date: 03-OCT-2011 13:34
Operator : MEC Inst ID: bna1.i
Smp Info : 1110003-03;;1000;1000;UG/L;;03-OCT-2011
Misc Info : ;0;;;;1J03003;ppbnax.sub;
Comment :
Method : \\ELABNSH05\TARGET\chem\bna1.i\100511B1.b\IXBN1.m
Meth Date : 05-Oct-2011 09:01 amonteiro Quant Type: ISTD
Cal Date : 10-SEP-2011 21:27 Cal File: SEQ-CAL9.D
Als bottle: 9
Dil Factor: 1.00000
Integrator: HP RTE Compound Sublist: ppbnax.sub
Target Version: 4.04
Processing Host: TARGET02_VM

Concentration Formula: Amt * DF * Uf * Vt* Vi/(Amt * Vi)

Name	Value	Description
DF	1.000	Dilution Factor
Uf	0.000	ng unit correction factor
Vt	1000.000	Volume of final extract (uL)
Vi	0.500	Volume injected (uL)
Amt	1000.000	Volume of initial extraction

10/10/11

Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS ON-COLUMN (ng/ul)	FINAL (ug/L)
* 1 1,4-Dichlorobenzene-d4	152	6.710	6.707	(1.000)	773667	40.0000	
$ 2 2-Fluorophenol	112	5.043	5.039	(0.752)	711077	26.9497	26.95
$ 3 Phenol-d6	99	6.203	6.218	(0.924)	457979	14.9781	14.98
* 33 Naphthalene-d8	136	8.341	8.349	(1.000)	2495960	40.0000	
$ 34 Nitrobenzene-d5	82	7.424	7.420	(0.890)	610162	31.2011	31.20
43 Benzoic acid	105	7.951	8.056	(0.953)	9510	5.04626	5.046(a)
* 69 Acenaphthene-d10	164	10.553	10.554	(1.000)	1026806	40.0000	
$ 74 2-Fluorobiphenyl	172	9.711	9.713	(0.920)	1062683	31.0187	31.02
* 102 Phenanthrene-d10	188	12.384	12.385	(1.000)	1599829	40.0000	
$ 107 2,4,6-Tribromophenol	330	11.530	11.530	(0.931)	440506	72.0686	72.07
* 132 Chrysene-d12	240	16.475	16.479	(1.000)	975836	40.0000	
$ 135 Terphenyl-d14	244	14.637	14.628	(0.888)	908031	46.0018	46.00
* 154 Perylene-d12	264	19.186	19.191	(1.000)	709859	40.0000	

Data File: \\ELABNSH05\TARGET\chem\bna1.i\100511B1.b\1000303.D
Report Date: 05-Oct-2011 14:04

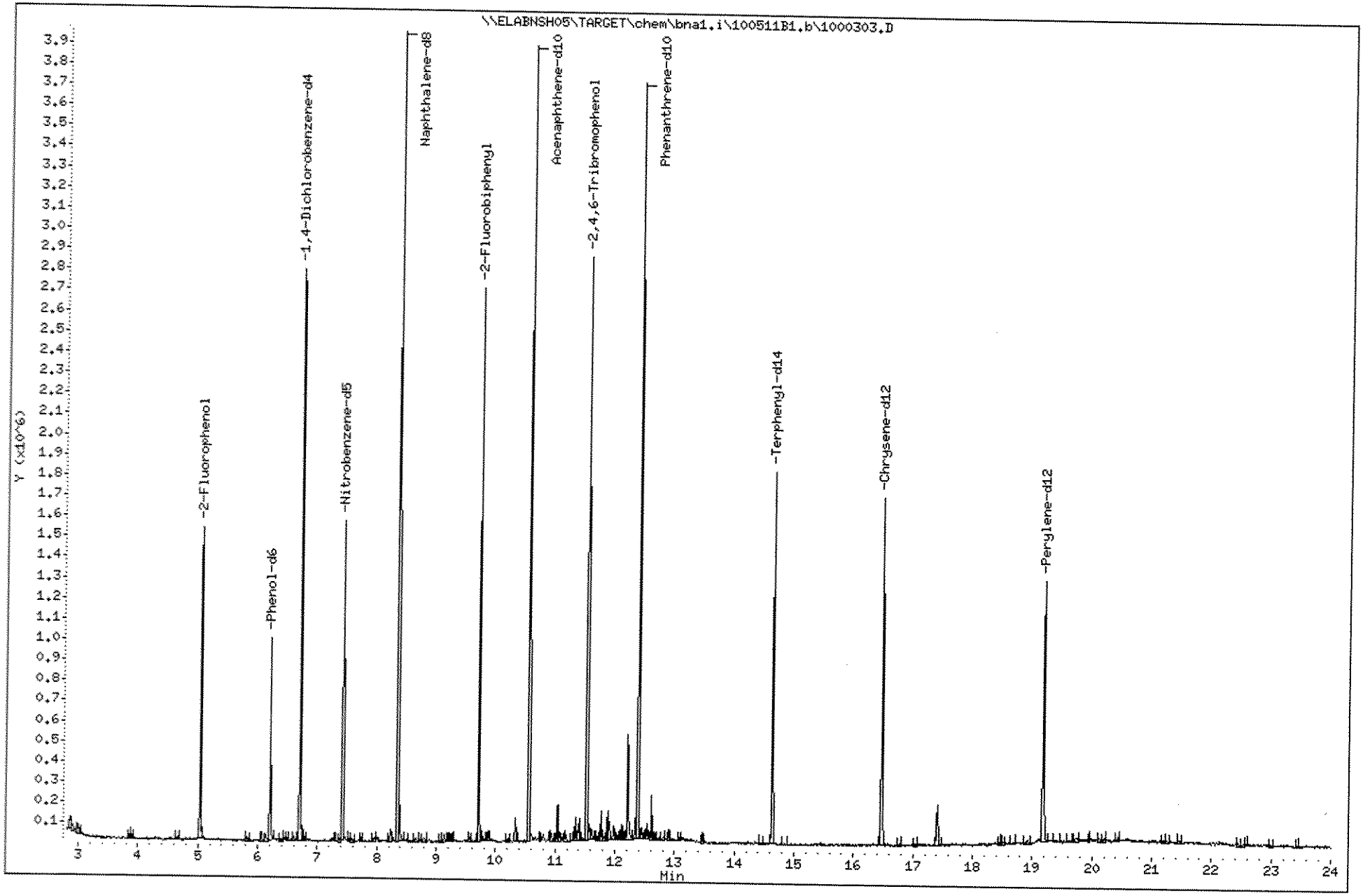
QC Flag Legend

a - Target compound detected but, quantitated amount
Below Limit Of Quantitation(BLOQ).

Data File: \\ELABNSH05\TARGET\chem\bna1.i\100511B1.b\1000303.D
Date : 05-OCT-2011 13:34
Client ID:
Sample Info: 1110003-03;;1000;1000;UG/L;;03-OCT-2011
Volume Injected (uL): 0.5
Column phase: fused silica

Instrument: bna1.i

Operator: MEC
Column diameter: 0.25



501

1110003

Data File: \\ELABNSH05\TARGET\chem\bna1.i\100511B1.b\1000303.D

Date : 05-OCT-2011 13:34

Client ID:

Instrument: bna1.i

Sample Info: 1110003-03;;1000;1000;UG/L;;03-OCT-2011

Volume Injected (uL): 0.5

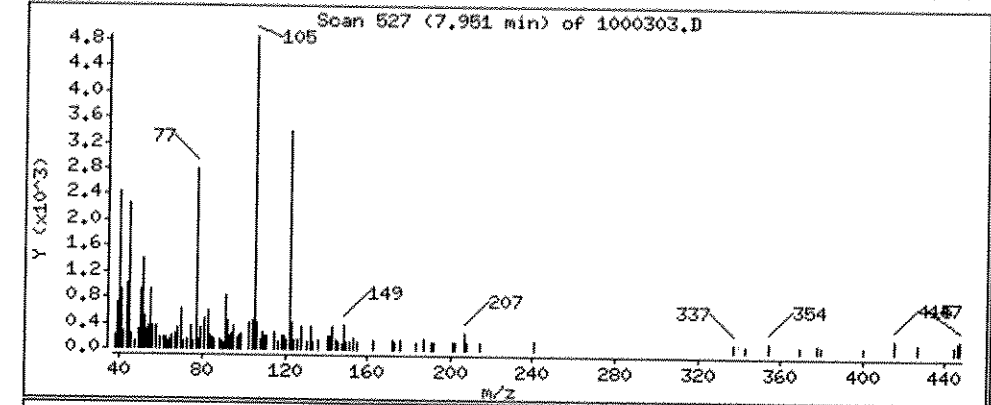
Operator: HEC

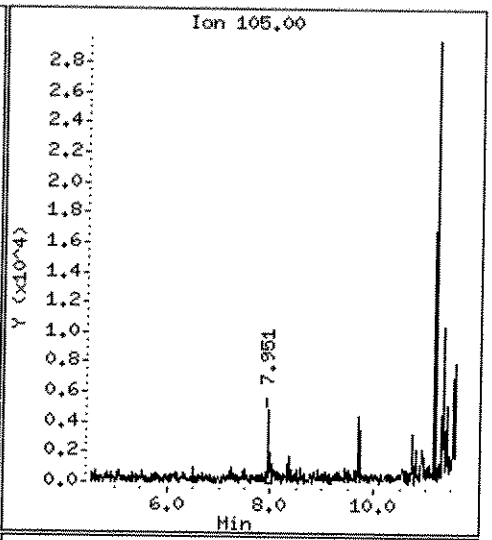
Column phase: fused silica

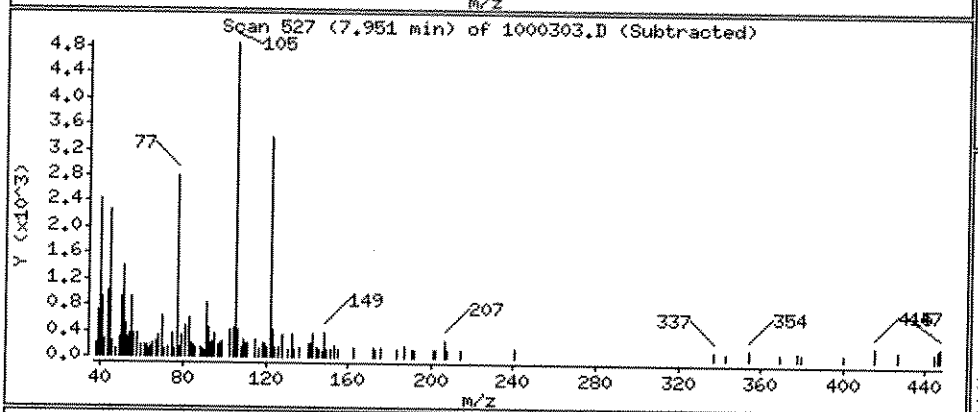
Column diameter: 0.25

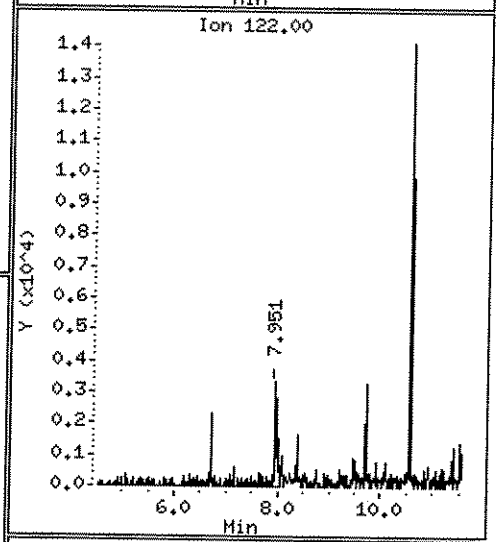
43 Benzoic acid

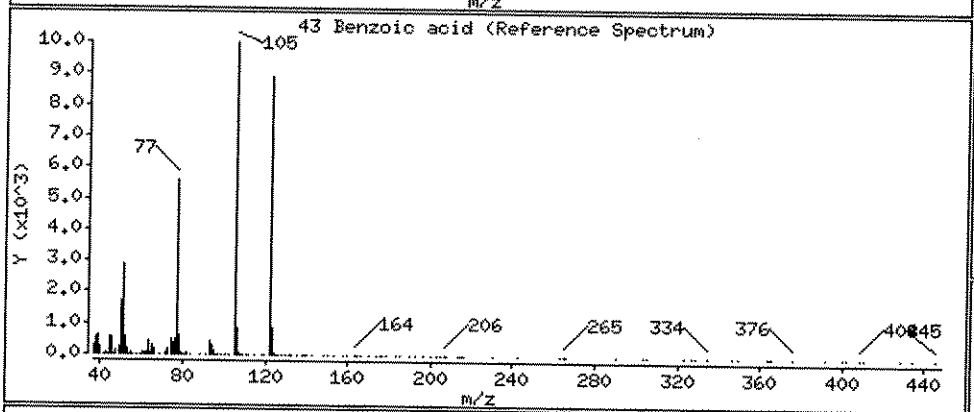
Concentration: 5.046 ug/L

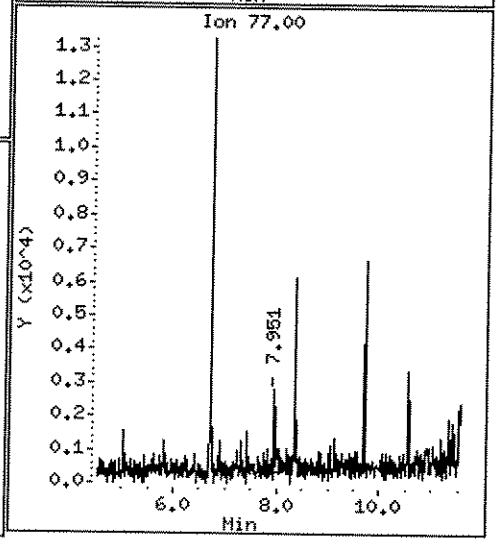


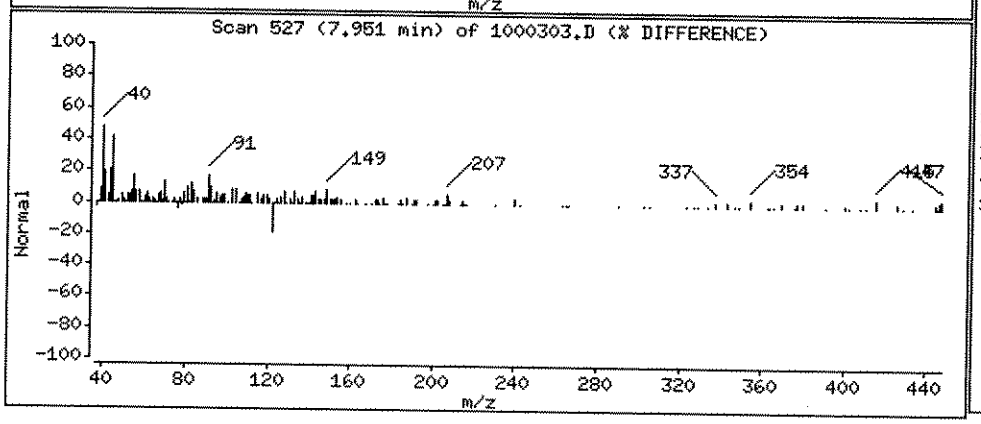












Data File: \\ELABNSH05\TARGET\chem\bna1.i\100511B1.b\1000305.D
Report Date: 06-Oct-2011 09:09

Laboratory Name

Data file : \\ELABNSH05\TARGET\chem\bna1.i\100511B1.b\1000305.D
Lab Smp Id: 1110003-05
Inj Date : 05-OCT-2011 14:09 MS Autotune Date: 03-OCT-2011 13:34
Operator : MEC Inst ID: bna1.i
Smp Info : 1110003-05;;1000;1000;UG/L;;03-OCT-2011
Misc Info : ;0;;;;1J03003;ppbnax.sub;
Comment :
Method : \\ELABNSH05\TARGET\chem\bna1.i\100511B1.b\IXBN1.m
Meth Date : 06-Oct-2011 09:06 amonteiro Quant Type: ISTD
Cal Date : 10-SEP-2011 21:27 Cal File: SEQ-CAL9.D
Als bottle: 10
Dil Factor: 1.00000
Integrator: HP RTE Compound Sublist: ppbnax.sub
Target Version: 4.04
Processing Host: TARGET02_VM

Concentration Formula: Amt * DF * Uf * Vt* Vi/(Amt * Vi)

Name	Value	Description
DF	1.000	Dilution Factor
Uf	0.000	ng unit correction factor
Vt	1000.000	Volume of final extract (uL)
Vi	0.500	Volume injected (uL)
Amt	1000.000	Volume of initial extraction

M 10/6/11

Chlorine matrix

Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS ON-COLUMN (ng/ul)	FINAL (ug/L)
* 1 1,4-Dichlorobenzene-d4	152	6.711	6.707	(1.000)	1019859	40.0000	
$ 2 2-Fluorophenol	112	5.041	5.039	(0.751)	637616	18.3320	18.33(R) L
$ 3 Phenol-d6	99	6.203	6.218	(0.924)	401397	9.95861	9.959(R) L
* 33 Naphthalene-d8	136	8.344	8.349	(1.000)	3145036	40.0000	
$ 34 Nitrobenzene-d5	82	7.423	7.420	(0.890)	552372	22.4166	22.42
* 69 Acenaphthene-d10	164	10.555	10.554	(1.000)	1506556	40.0000	
$ 74 2-Fluorobiphenyl	172	9.711	9.713	(0.920)	915654	18.2160	18.22(R) L
* 102 Phenanthrene-d10	188	12.391	12.385	(1.000)	2131275	40.0000	
$ 107 2,4,6-Tribromophenol	330	11.531	11.530	(0.931)	412994	50.7191	50.72
* 132 Chrysene-d12	240	16.474	16.479	(1.000)	1314051	40.0000	
$ 135 Terphenyl-d14	244	14.637	14.628	(0.888)	577404	21.7229	21.72(R) L
* 154 Perylene-d12	264	19.194	19.191	(1.000)	798313	40.0000	

Data File: \\ELABNSH05\TARGET\chem\bna1.i\100511B1.b\1000305.D
Report Date: 06-Oct-2011 09:09

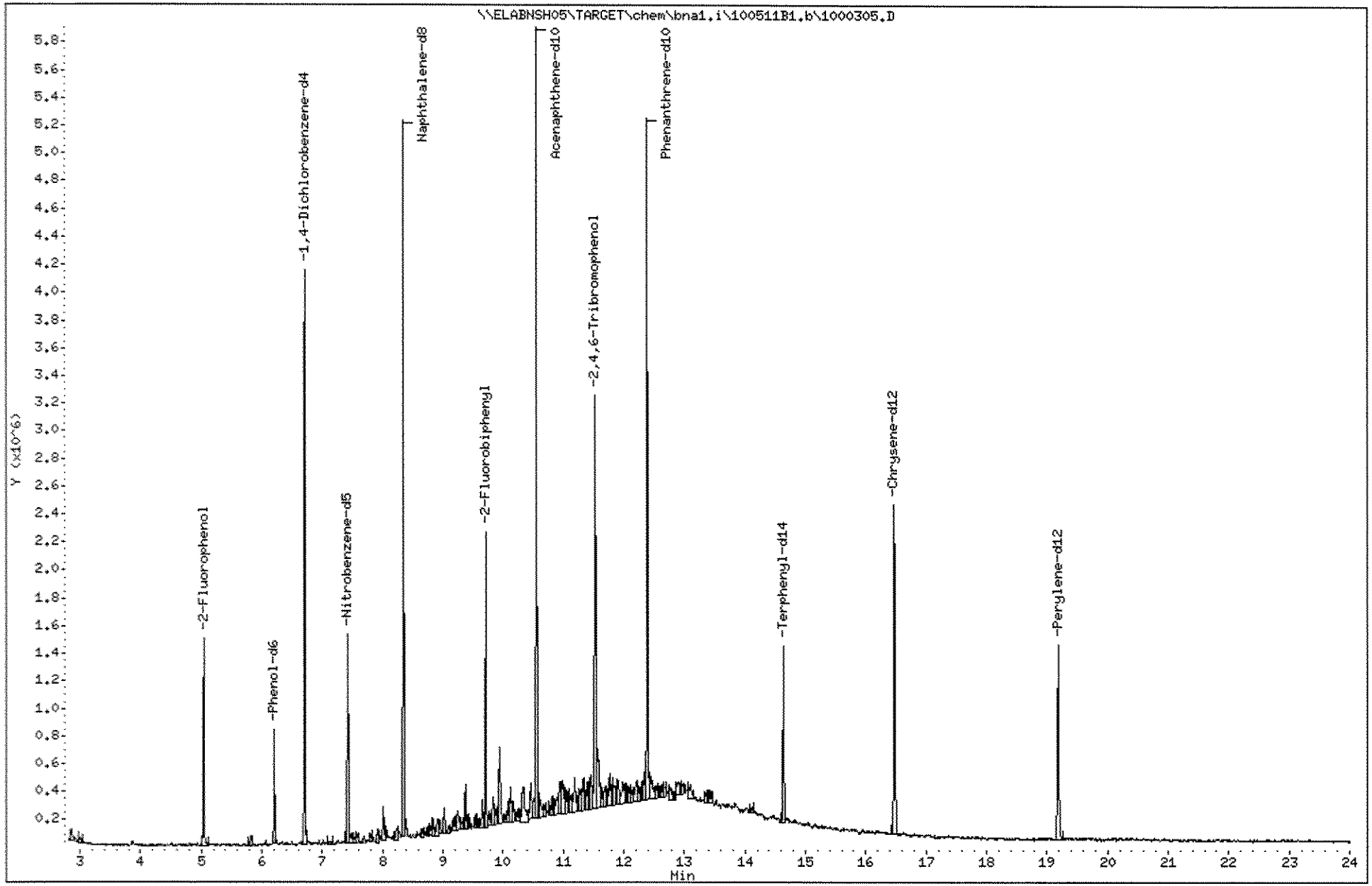
QC Flag Legend

R - Spike/Surrogate failed recovery limits.

Data File: \\ELABNSH05\TARGET\chem\bna1.i\100511B1.b\1000305.D
Date : 05-OCT-2011 14:09
Client ID:
Sample Info: 1110003-05;;1000;1000;UG/L;;03-OCT-2011
Volume Injected (uL): 0.5
Column phase: fused silica

Instrument: bna1.i

Operator: MEC
Column diameter: 0.25



505

1110003

Data File: \\ELABNSH05\TARGET\chem\bna1.i\100511B1.b\1000307.D
Report Date: 06-Oct-2011 09:09

Laboratory Name

Data file : \\ELABNSH05\TARGET\chem\bna1.i\100511B1.b\1000307.D
Lab Smp Id: 1110003-07
Inj Date : 05-OCT-2011 14:43 MS Autotune Date: 03-OCT-2011 13:34
Operator : MEC Inst ID: bna1.i
Smp Info : 1110003-07;;1000;1000;UG/L;;03-OCT-2011
Misc Info : ;0;;;;1J03003;ppbnax.sub;
Comment :
Method : \\ELABNSH05\TARGET\chem\bna1.i\100511B1.b\IXBN1.m
Meth Date : 06-Oct-2011 09:06 amonteiro Quant Type: ISTD
Cal Date : 10-SEP-2011 21:27 Cal File: SEQ-CAL9.D
Als bottle: 11
Dil Factor: 1.00000
Integrator: HP RTE Compound Sublist: ppbnax.sub
Target Version: 4.04
Processing Host: TARGET02_VM

Concentration Formula: Amt * DF * Uf * Vt* Vi/(Amt * Vi)

Name	Value	Description
DF	1.000	Dilution Factor
Uf	0.000	ng unit correction factor
Vt	1000.000	Volume of final extract (uL)
Vi	0.500	Volume injected (uL)
Amt	1000.000	Volume of initial extraction

M 10/6/11

Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS ON-COLUMN (ng/ul)	FINAL (ug/L)
* 1 1,4-Dichlorobenzene-d4	152	6.709	6.707	(1.000)	795755	40.0000	
$ 2 2-Fluorophenol	112	5.041	5.039	(0.751)	572759	21.1049	21.10
$ 3 Phenol-d6	99	6.201	6.218	(0.924)	386636	12.2938	12.29
* 33 Naphthalene-d8	136	8.341	8.349	(1.000)	2408383	40.0000	
$ 34 Nitrobenzene-d5	82	7.422	7.420	(0.890)	613377	32.5061	32.51
43 Benzoic acid	105	7.950	8.056	(0.953)	6935	4.91764	4.918(a)
* 69 Acenaphthene-d10	164	10.559	10.554	(1.000)	1201280	40.0000	
$ 74 2-Fluorobiphenyl	172	9.717	9.713	(0.920)	1024917	25.5713	25.57
* 102 Phenanthrene-d10	188	12.391	12.385	(1.000)	1783567	40.0000	
$ 107 2,4,6-Tribromophenol	330	11.531	11.530	(0.931)	427802	62.7799	62.78
* 132 Chrysene-d12	240	16.478	16.479	(1.000)	1158358	40.0000	
$ 135 Terphenyl-d14	244	14.635	14.628	(0.888)	919671	39.2501	39.25
* 154 Perylene-d12	264	19.191	19.191	(1.000)	787582	40.0000	

Data File: \\ELABNSH05\TARGET\chem\bna1.i\100511B1.b\1000307.D
Report Date: 06-Oct-2011 09:09

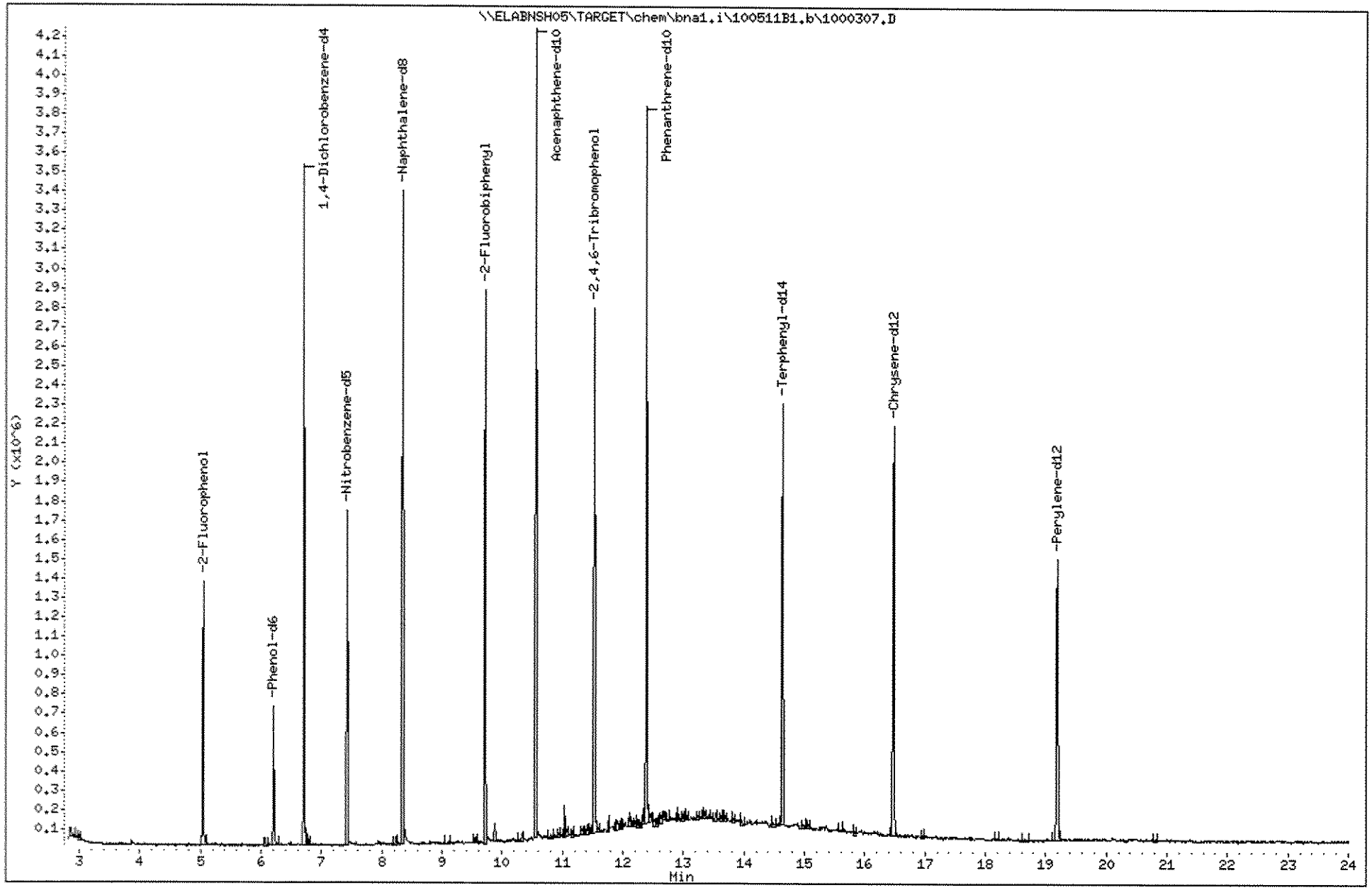
QC Flag Legend

a - Target compound detected but, quantitated amount
Below Limit Of Quantitation(BLOQ).

Data File: \\ELABNSH05\TARGET\chem\bna1.i\100511B1.b\1000307.D
Date : 05-OCT-2011 14:43
Client ID:
Sample Info: 1110003-07;;1000;1000;UG/L;;03-OCT-2011
Volume Injected (uL): 0.5
Column phase: fused silica

Instrument: bna1.i

Operator: MEC
Column diameter: 0.25



Data File: \\ELABNSH05\TARGET\chem\bna1.i\100511B1.b\1000307.D

Date : 05-OCT-2011 14:43

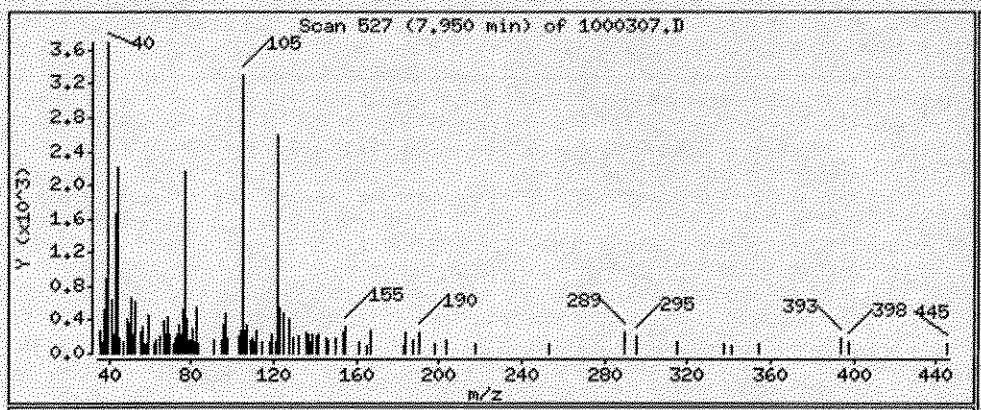
Client ID: Instrument: bna1.i

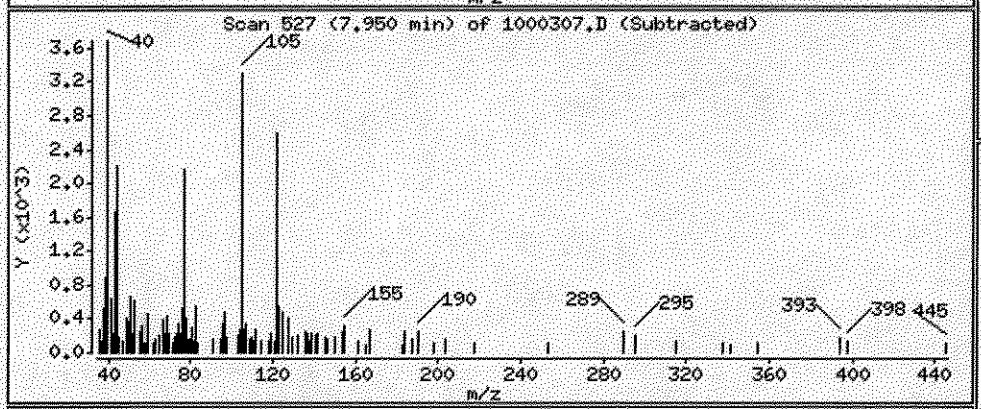
Sample Info: 1110003-07;;1000;1000;UG/L;;03-OCT-2011

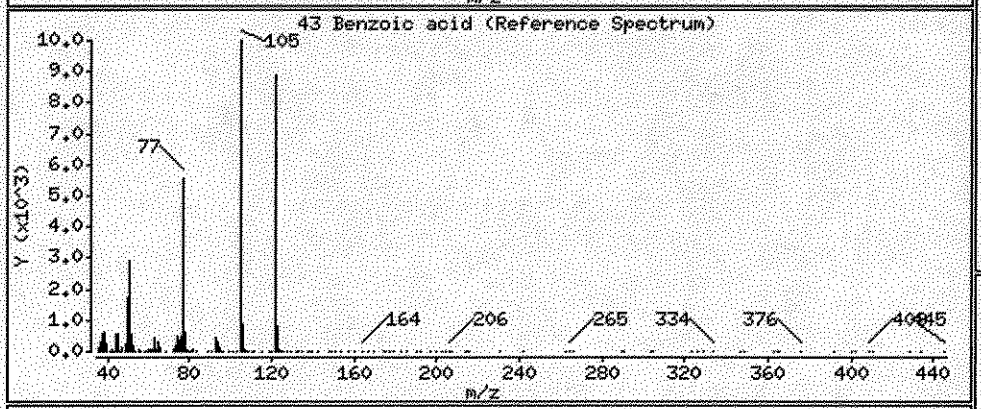
Volume Injected (uL): 0.5 Operator: HEC

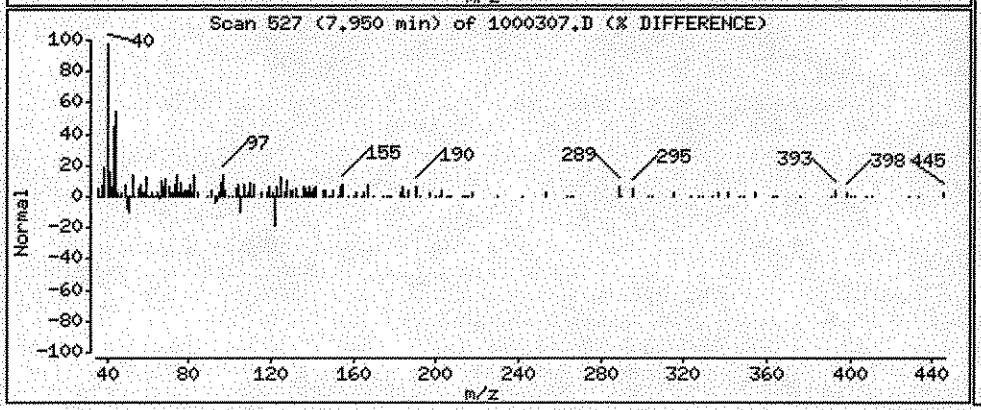
Column phase: fused silica Column diameter: 0.25

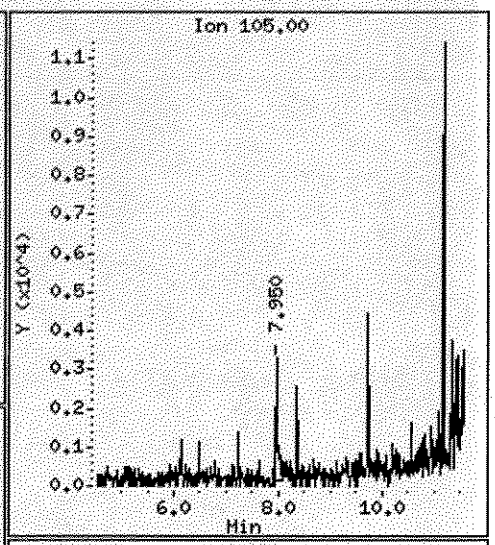
43 Benzoic acid Concentration: 4.918 ug/L

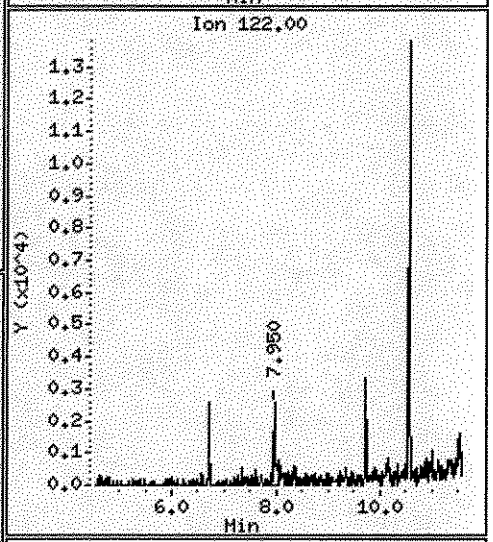


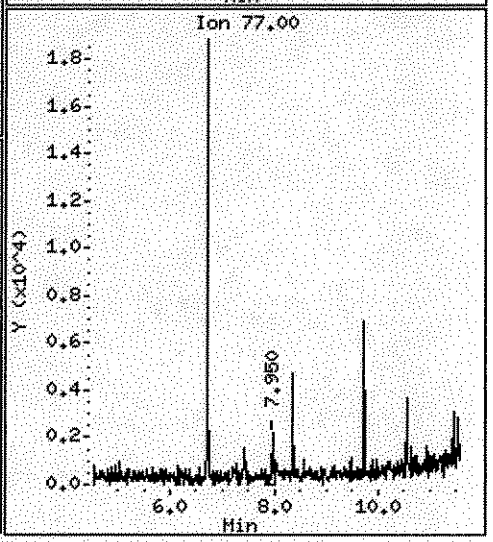












Data File: \\ELABNSH05\TARGET\chem\bna1.i\100511B1.b\1000309.D
Report Date: 06-Oct-2011 09:09

Laboratory Name

Data file : \\ELABNSH05\TARGET\chem\bna1.i\100511B1.b\1000309.D
Lab Smp Id: 1110003-09
Inj Date : 05-OCT-2011 15:18 MS Autotune Date: 03-OCT-2011 13:34
Operator : MEC Inst ID: bna1.i
Smp Info : 1110003-09;;1000;1000;UG/L;;03-OCT-2011
Misc Info : ;0;;;;1J03003;ppbnax.sub;
Comment :
Method : \\ELABNSH05\TARGET\chem\bna1.i\100511B1.b\IXBN1.m
Meth Date : 06-Oct-2011 09:06 amonteiro Quant Type: ISTD
Cal Date : 10-SEP-2011 21:27 Cal File: SEQ-CAL9.D
Als bottle: 12
Dil Factor: 1.00000
Integrator: HP RTE Compound Sublist: ppbnax.sub
Target Version: 4.04
Processing Host: TARGET02_VM

Concentration Formula: Amt * DF * Uf * Vt* Vi/(Amt * Vi)

Name	Value	Description
DF	1.000	Dilution Factor
Uf	0.000	ng unit correction factor
Vt	1000.000	Volume of final extract (uL)
Vi	0.500	Volume injected (uL)
Amt	1000.000	Volume of initial extraction

M 10/6 M1

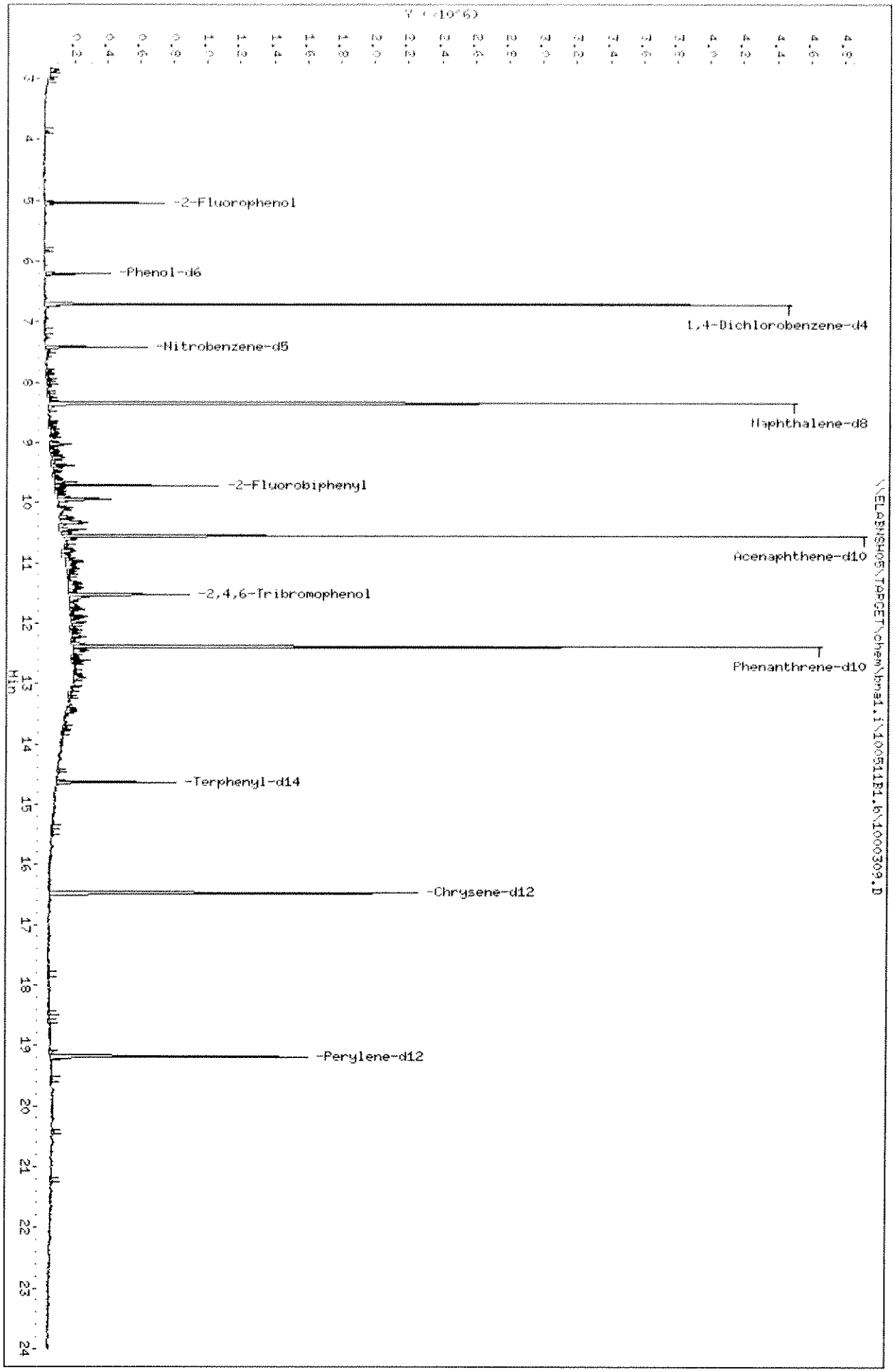
Re-extract
bad extraction

Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS ON-COLUMN (ng/ul)	FINAL (ug/L)
* 1 1,4-Dichlorobenzene-d4	152	6.711	6.707	(1.000)	1050247	40.0000	
$ 2 2-Fluorophenol	112	5.041	5.039	(0.751)	296981	8.29140	8.291(R)
$ 3 Phenol-d6	99	6.203	6.218	(0.924)	207498	4.99905	4.999(aR)
* 33 Naphthalene-d8	136	8.351	8.349	(1.000)	3024443	40.0000	
$ 34 Nitrobenzene-d5	82	7.422	7.420	(0.889)	243397	10.2715	10.27(R)
* 69 Acenaphthene-d10	164	10.557	10.554	(1.000)	1244335	40.0000	
$ 74 2-Fluorobiphenyl	172	9.712	9.713	(0.920)	373736	9.00193	9.002(R)
* 102 Phenanthrene-d10	188	12.389	12.385	(1.000)	1878108	40.0000	
$ 107 2,4,6-Tribromophenol	330	11.532	11.530	(0.931)	113582	15.8291	15.83(R)
* 132 Chrysene-d12	240	16.474	16.479	(1.000)	1253560	40.0000	
$ 135 Terphenyl-d14	244	14.639	14.628	(0.889)	343546	13.5485	13.55(R)
* 154 Perylene-d12	264	19.190	19.191	(1.000)	845532	40.0000	

Data File: \\ELABNSH05\TARGET\chem\bna1.i\100511B1.b\1000309.D
Report Date: 06-Oct-2011 09:09

QC Flag Legend

a - Target compound detected but, quantitated amount
    Below Limit Of Quantitation(BLOQ).
R - Spike/Surrogate failed recovery limits.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Date : 05-OCT-2011 15:18
Client ID:
Sample Info: 1110003-03;1000;1000;10G/L;03-OCT-2011
Volume Injected (uL): 0.5
Column phase: fused silica
Instrument: bna1.i
Operator: MEC
Column diameter: 0.25
Y (*10^6)
Min
~2-Fluorophenol
~Phenol-d6
1,4-Dichlorobenzene-d4
~Nitrobenzene-d5
Naphthalene-d8
~2-Fluorobiphenyl
Acenaphthene-d10
~2,4,6-Tribromophenol
Phenanthrene-d10
~Terphenyl-d14
~Chrysene-d12
~Perylene-d12

Data File: \\ELABNSH05\TARGET\chem\bna1.i\100511B1.b\1000311.D
Report Date: 06-Oct-2011 09:09

Laboratory Name

Data file : \\ELABNSH05\TARGET\chem\bna1.i\100511B1.b\1000311.D
Lab Smp Id: 1110003-11
Inj Date : 05-OCT-2011 15:52 MS Autotune Date: 03-OCT-2011 13:34
Operator : MEC Inst ID: bna1.i
Smp Info : 1110003-11;;1000;1000;UG/L;;03-OCT-2011
Misc Info : ;0;;;;1J03003;ppbnax.sub;
Comment :
Method : \\ELABNSH05\TARGET\chem\bna1.i\100511B1.b\IXBN1.m
Meth Date : 06-Oct-2011 09:06 amonteiro Quant Type: ISTD
Cal Date : 10-SEP-2011 21:27 Cal File: SEQ-CAL9.D
Als bottle: 13
Dil Factor: 1.00000
Integrator: HP RTE Compound Sublist: ppbnax.sub
Target Version: 4.04
Processing Host: TARGET02_VM

Concentration Formula: Amt * DF * Uf * Vt* Vi/(Amt * Vi)

Name	Value	Description
DF	1.000	Dilution Factor
Uf	0.000	ng unit correction factor
Vt	1000.000	Volume of final extract (uL)
Vi	0.500	Volume injected (uL)
Amt	1000.000	Volume of initial extraction

M10/6/11

Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS ON-COLUMN (ng/ul)	FINAL (ug/L)
* 1 1,4-Dichlorobenzene-d4	152	6.712	6.707	(1.000)	747280	40.0000	
$ 2 2-Fluorophenol	112	5.043	5.039	(0.751)	540345	21.2021	21.20
$ 3 Phenol-d6	99	6.204	6.218	(0.924)	401298	13.5878	13.59
32 Benzaldehyde	106	6.155	6.150	(0.917)	30629	2.03052	2.030(a)
* 33 Naphthalene-d8	136	8.341	8.349	(1.000)	2598404	40.0000	
$ 34 Nitrobenzene-d5	82	7.424	7.420	(0.890)	610329	29.9792	29.98
* 69 Acenaphthene-d10	164	10.558	10.554	(1.000)	1005064	40.0000	
$ 74 2-Fluorobiphenyl	172	9.717	9.713	(0.920)	965142	28.7810	28.78
* 102 Phenanthrene-d10	188	12.384	12.385	(1.000)	1652768	40.0000	
$ 107 2,4,6-Tribromophenol	330	11.526	11.530	(0.931)	304825	48.2732	48.27
* 132 Chrysene-d12	240	16.476	16.479	(1.000)	1063274	40.0000	
$ 135 Terphenyl-d14	244	14.631	14.628	(0.888)	613936	28.5449	28.54
* 154 Perylene-d12	264	19.187	19.191	(1.000)	833107	40.0000	

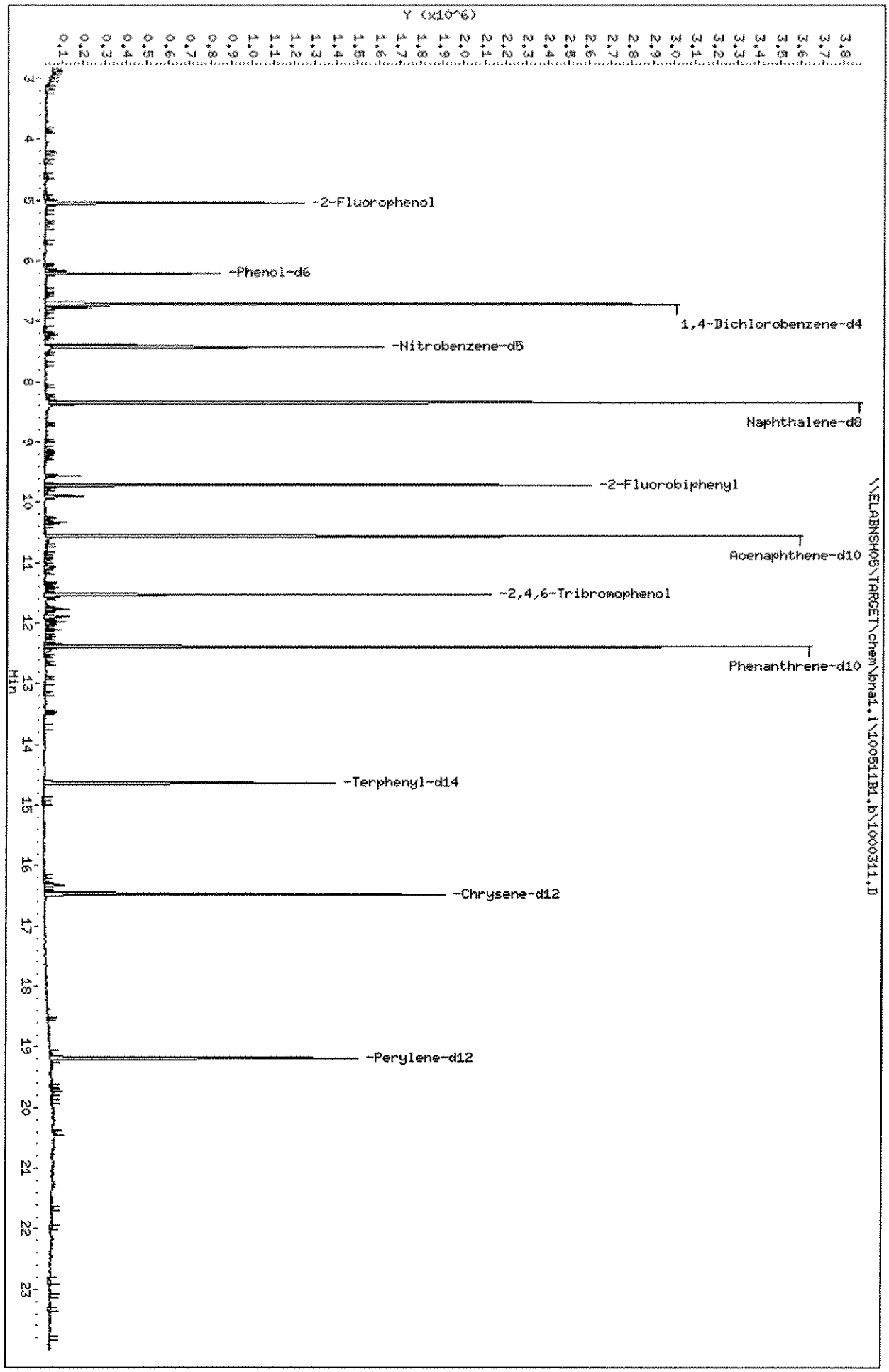
Data File: \\ELABNSH05\TARGET\chem\bna1.i\100511B1.b\1000311.D
Report Date: 06-Oct-2011 09:09

QC Flag Legend

a - Target compound detected but, quantitated amount
Below Limit Of Quantitation(BLOQ).

Data File: \\ELABNSH05\TARGET\chem\bna1.i\100511B1.b\1000311.D
Date : 05-OCT-2011 15:52
Client ID:
Sample Info: 1110003-11;1000;1000;UG/L;03-OCT-2011
Volume Injected (uL): 0.5
Column phase: fused silica

Instrument: bna1.i
Operator: MEC
Column diameter: 0.25



Data File: \\ELABNSH05\TARGET\chem\bna1.i\100511B1.b\1000311.D

Date : 05-OCT-2011 15:52

Client ID:

Instrument: bna1.i

Sample Info: 1110003-11;;1000;1000;UG/L;;03-OCT-2011

Volume Injected (uL): 0.5

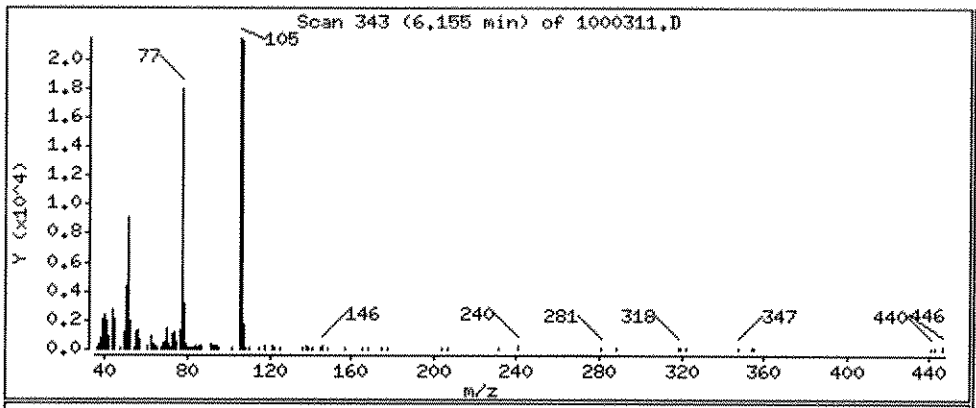
Operator: MEC

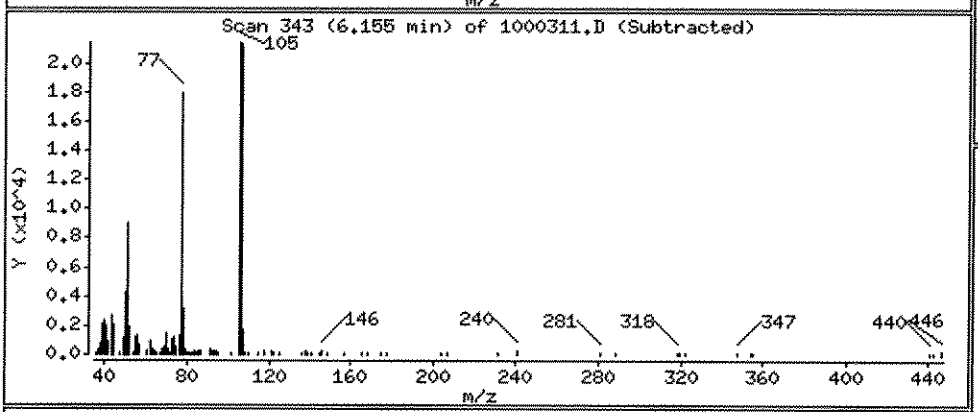
Column phase: fused silica

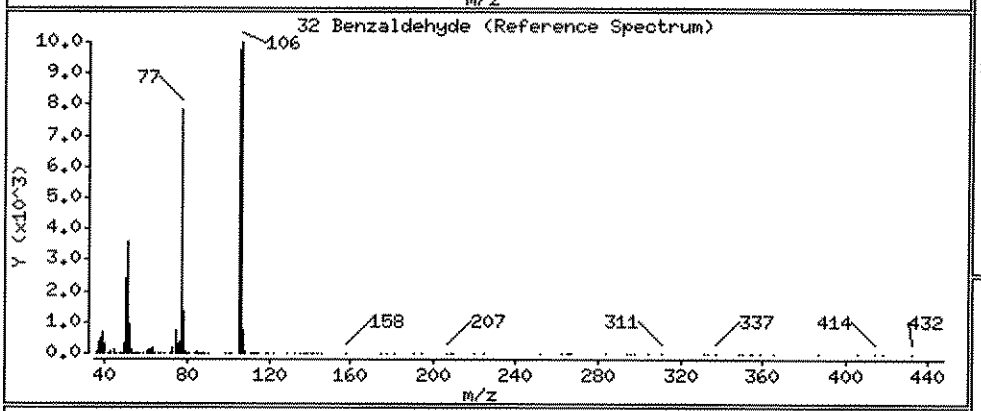
Column diameter: 0.25

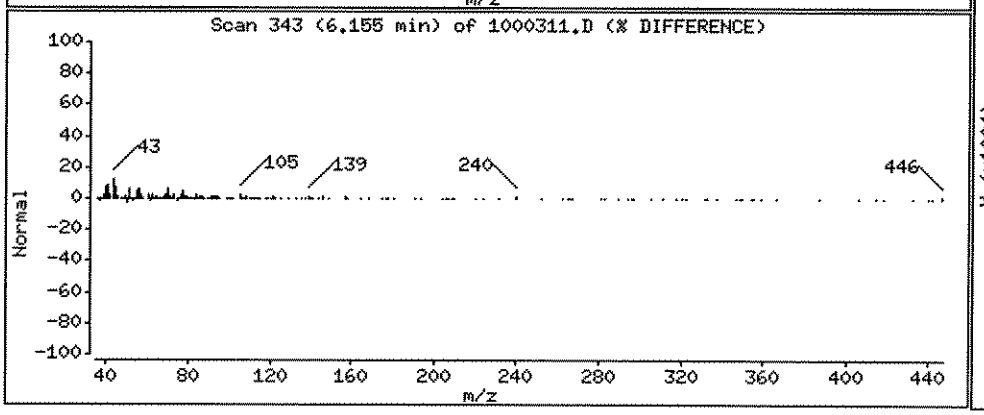
32 Benzaldehyde

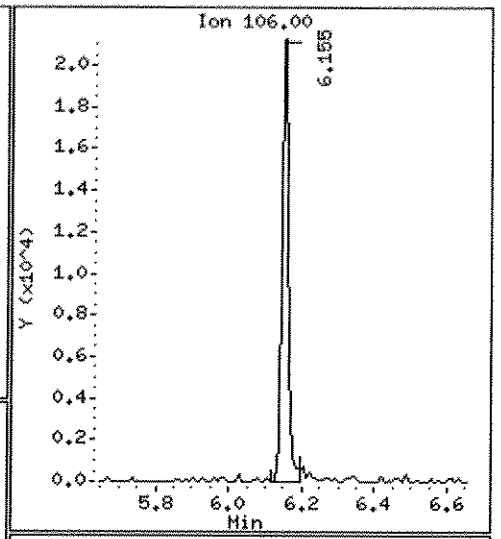
Concentration: 2.030 ug/L

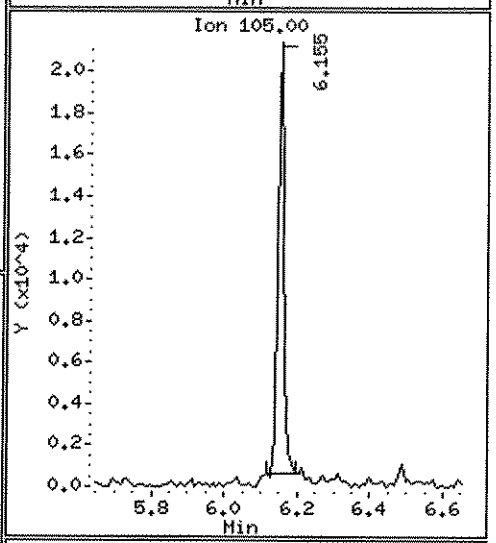


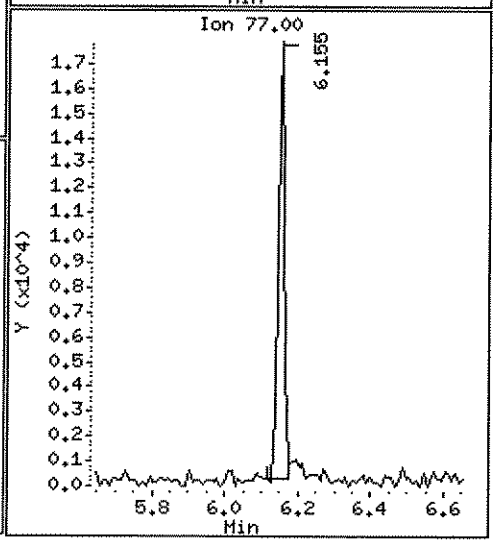












Data File: \\ELABNSH05\TARGET\chem\bna1.i\100511B1.b\1000312.D
Report Date: 06-Oct-2011 09:09

Laboratory Name

Data file : \\ELABNSH05\TARGET\chem\bna1.i\100511B1.b\1000312.D
Lab Smp Id: 1110003-12
Inj Date : 05-OCT-2011 16:27 MS Autotune Date: 03-OCT-2011 13:34
Operator : MEC Inst ID: bna1.i
Smp Info : 1110003-12;;1000;1000;UG/L;;03-OCT-2011
Misc Info : ;0;;;;1J03003;ppbnax.sub;
Comment :
Method : \\ELABNSH05\TARGET\chem\bna1.i\100511B1.b\IXBN1.m
Meth Date : 06-Oct-2011 09:06 amonteiro Quant Type: ISTD
Cal Date : 10-SEP-2011 21:27 Cal File: SEQ-CAL9.D
Als bottle: 14
Dil Factor: 1.00000
Integrator: HP RTE Compound Sublist: ppbnax.sub
Target Version: 4.04
Processing Host: TARGET02_VM

Concentration Formula: Amt * DF * Uf * Vt* Vi/(Amt * Vi)

Name	Value	Description
DF	1.000	Dilution Factor
Uf	0.000	ng unit correction factor
Vt	1000.000	Volume of final extract (uL)
Vi	0.500	Volume injected (uL)
Amt	1000.000	Volume of initial extraction

M 10/6/11

Matrix, m-extract

Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS ON-COLUMN (ng/ul)	FINAL (ug/L)
* 1 1,4-Dichlorobenzene-d4	152	6.712	6.707	(1.000)	863164	40.0000	
$ 2 2-Fluorophenol	112	5.043	5.039	(0.751)	98118	3.33308	3.333(aR)
$ 3 Phenol-d6	99	6.203	6.218	(0.924)	129114	3.78482	3.785(aR)
* 33 Naphthalene-d8	136	8.345	8.349	(1.000)	2467334	40.0000	
$ 34 Nitrobenzene-d5	82	7.415	7.420	(0.889)	156685	8.10517	8.105(R)
42 2,4-Dimethylphenol	107	7.905	7.909	(0.947)	20594	1.03029	1.030(a)
56 1-Methylnaphthalene	141	9.380	9.373	(1.124)	51635	1.79706	1.797(aQ)
* 69 Acenaphthene-d10	164	10.559	10.554	(1.000)	1053442	40.0000	
$ 74 2-Fluorobiphenyl	172	9.720	9.713	(0.920)	431854	12.2867	12.29(R)
80 Acenaphthene	153	10.598	10.594	(1.004)	42571	1.32491	1.325(a)
* 102 Phenanthrene-d10	188	12.389	12.385	(1.000)	1408046	40.0000	
$ 107 2,4,6-Tribromophenol	330	11.536	11.530	(0.931)	286046	53.1724	53.17
* 132 Chrysene-d12	240	16.476	16.479	(1.000)	668722	40.0000	
$ 135 Terphenyl-d14	244	14.640	14.628	(0.889)	422498	31.2342	31.23

Data File: \\ELABNSH05\TARGET\chem\bna1.i\100511B1.b\1000312.D
Report Date: 06-Oct-2011 09:09

Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS ON-COLUMN (ng/ul)	FINAL (ug/L)
* 154 Perylene-d12	264	19.194	19.191	(1.000)	468235	40.0000	

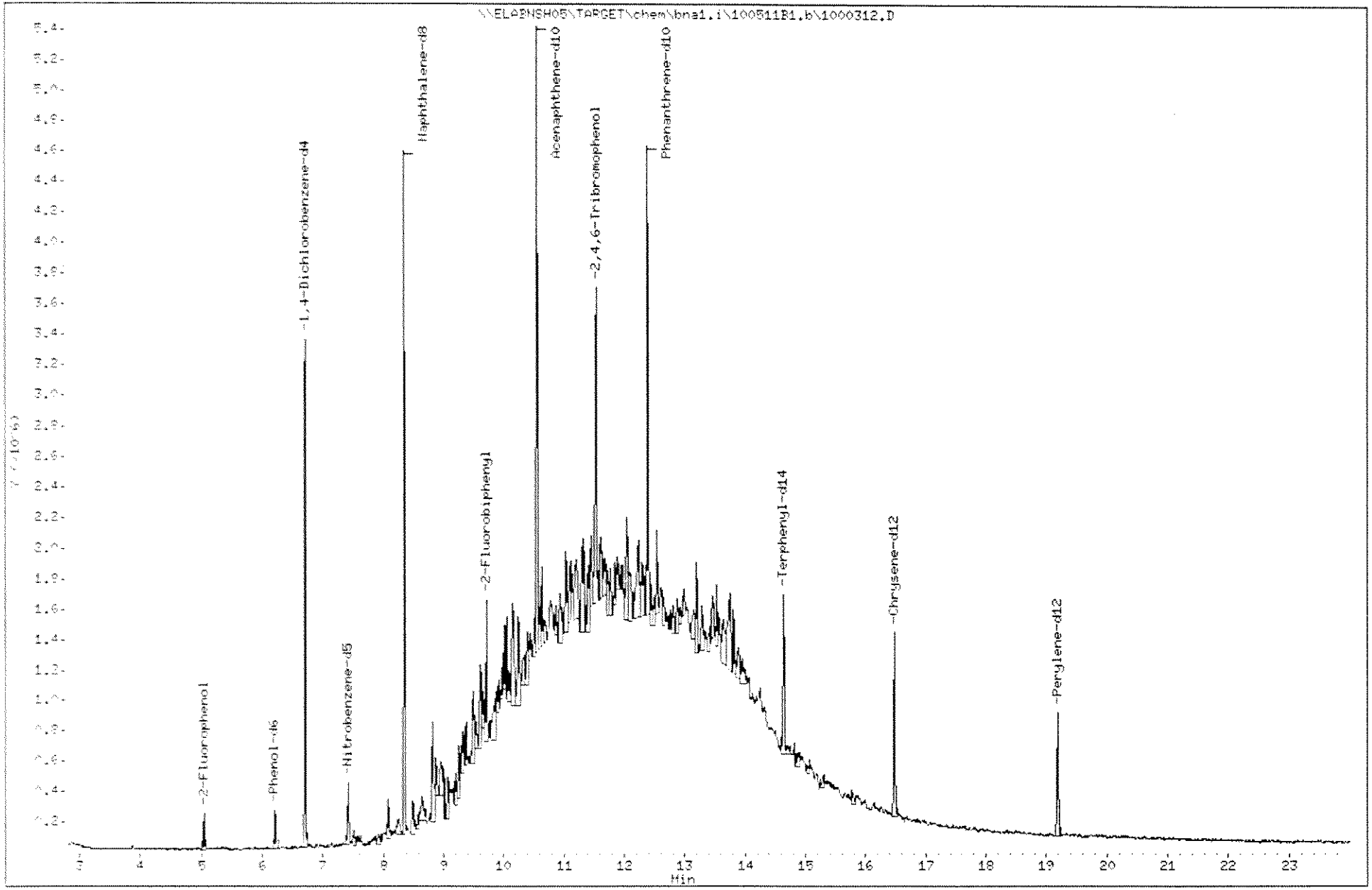
QC Flag Legend

a - Target compound detected but, quantitated amount
    Below Limit Of Quantitation(BLOQ).
Q - Qualifier signal failed the ratio test.
R - Spike/Surrogate failed recovery limits.

Data File: \\ELAPNSH05\TARGET\chem\bna1.i\100511B1.b\1000312.D
Date : 05-OCT-2011 16:27
Client ID:
Sample Info: 1110003-12;;1000;1000;UG/L;;03-OCT-2011
Volume Injected (uL): 0.5
Column phase: fused silica

Instrument: bna1.i

Operator: MEC
Column diameter: 0.25



Data File: \\ELABNSH05\TARGET\chem\bna1.i\100511B1.b\1000312.D

Date : 05-OCT-2011 16:27

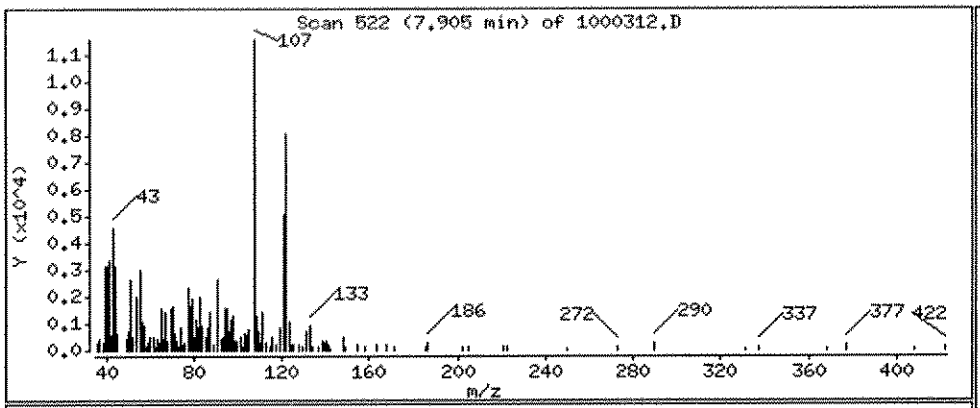
Client ID: Instrument: bna1.i

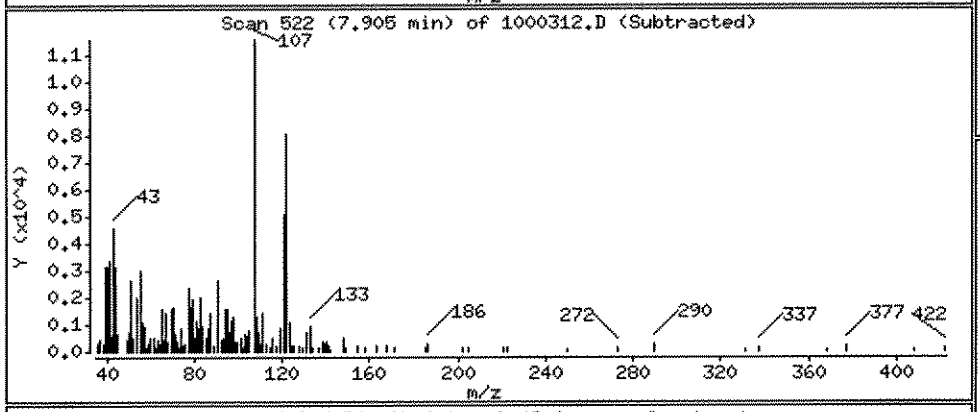
Sample Info: 1110003-12;;1000;1000;UG/L;;03-OCT-2011

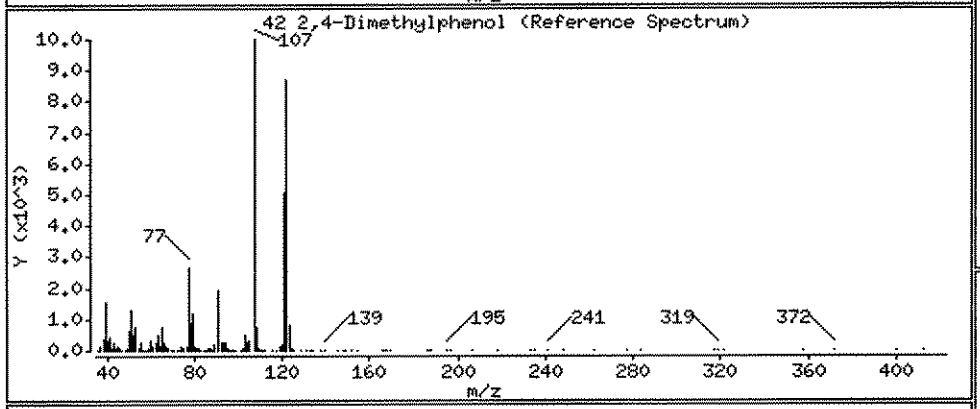
Volume Injected (uL): 0.5 Operator: MEC

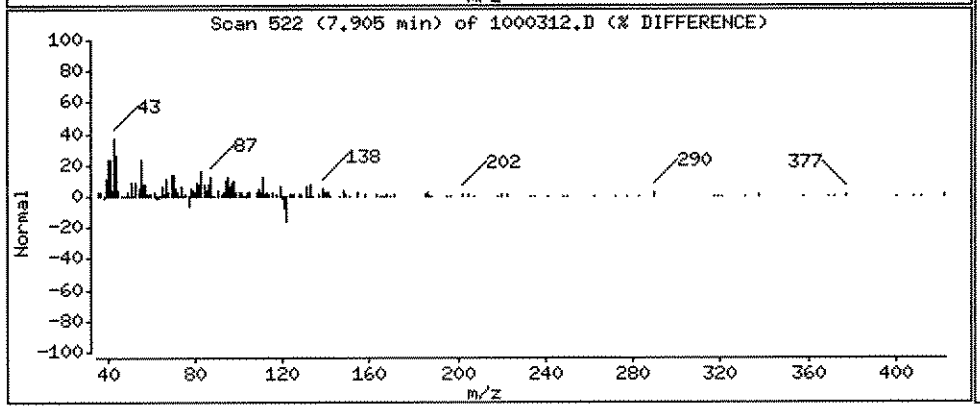
Column phase: fused silica Column diameter: 0.25

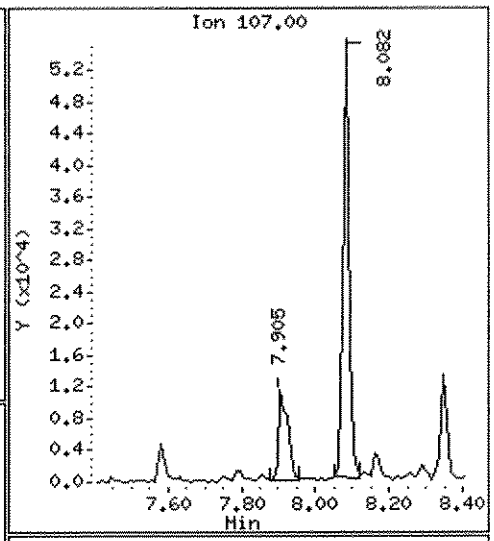
42 2,4-Dimethylphenol Concentration: 1.030 ug/L

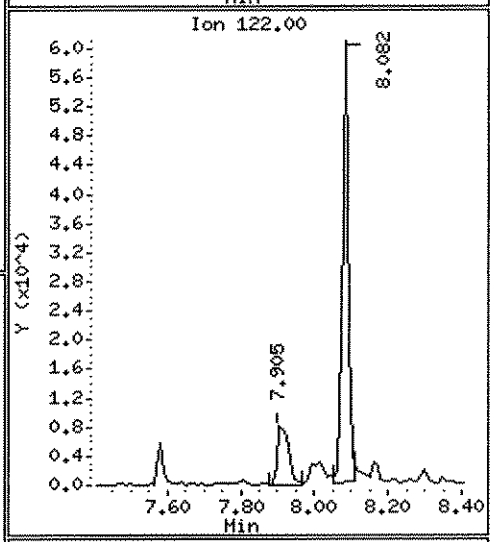


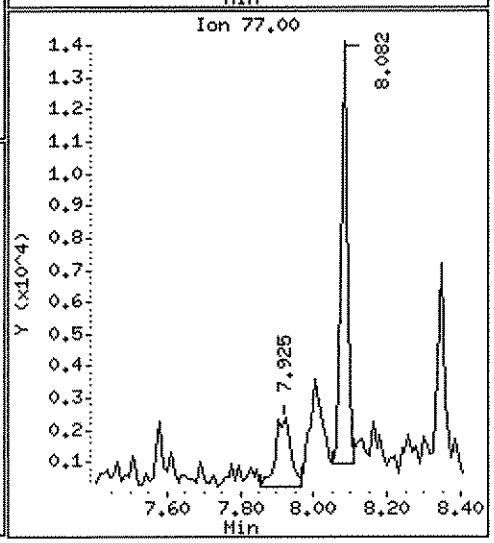












Data File: \\ELABNSH05\TARGET\chem\bna1.i\100511B1.b\1000312.D

Date : 05-OCT-2011 16:27

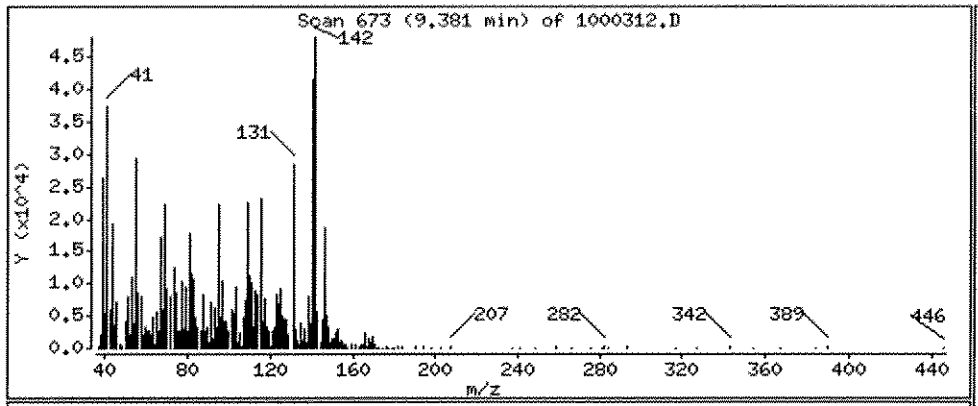
Client ID: Instrument: bna1.i

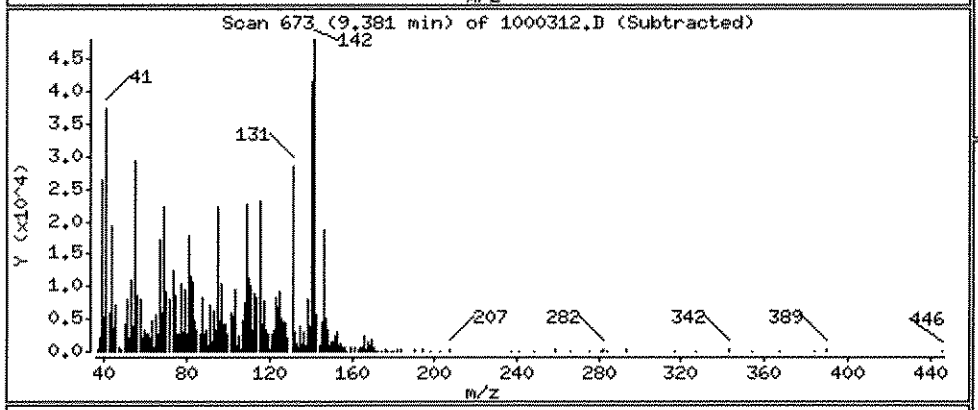
Sample Info: 1110003-12;;1000;1000;UG/L;;03-OCT-2011

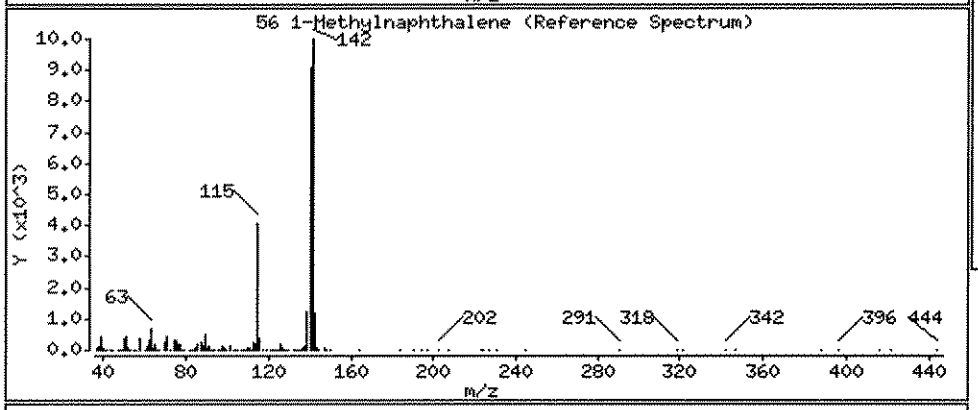
Volume Injected (uL): 0.5 Operator: MEC

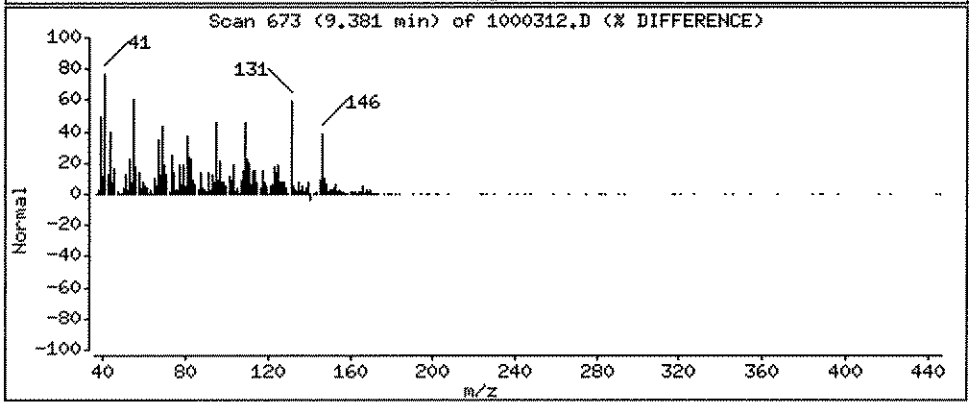
Column phase: fused silica Column diameter: 0.25

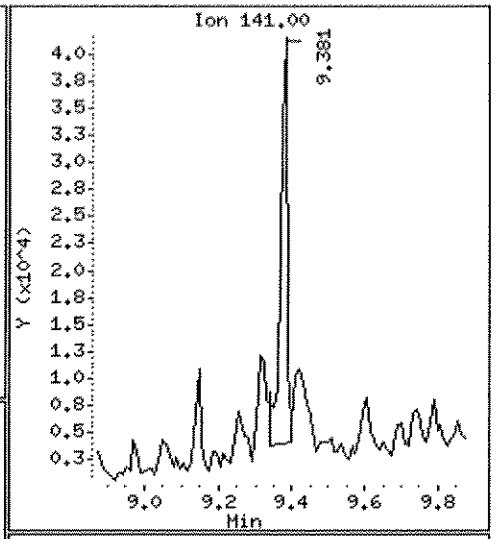
56 1-Methylnaphthalene Concentration: 1.797 ug/L

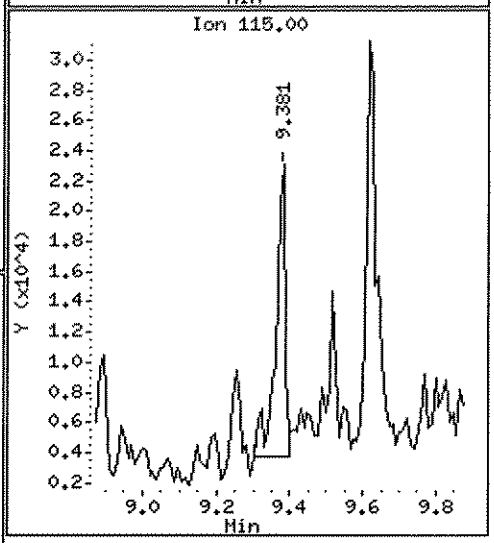












Data File: \\ELABNSH05\TARGET\chem\bna1.i\100511B1.b\1000312.D

Date : 05-OCT-2011 16:27

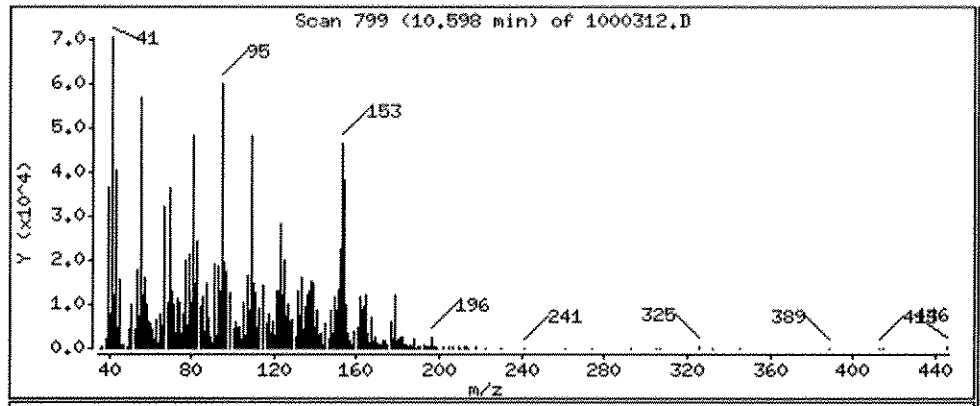
Client ID: | Instrument: bna1.i

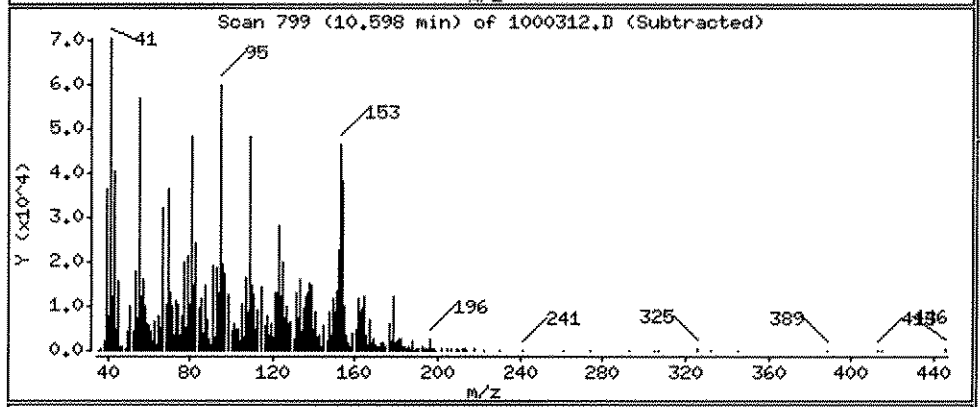
Sample Info: 1110003-12;;1000;1000;UG/L;;03-OCT-2011

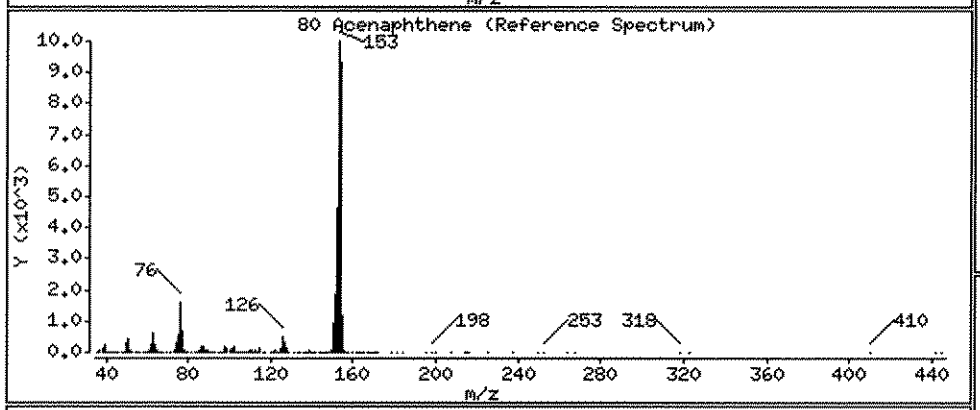
Volume Injected (uL): 0.5 | Operator: HEC

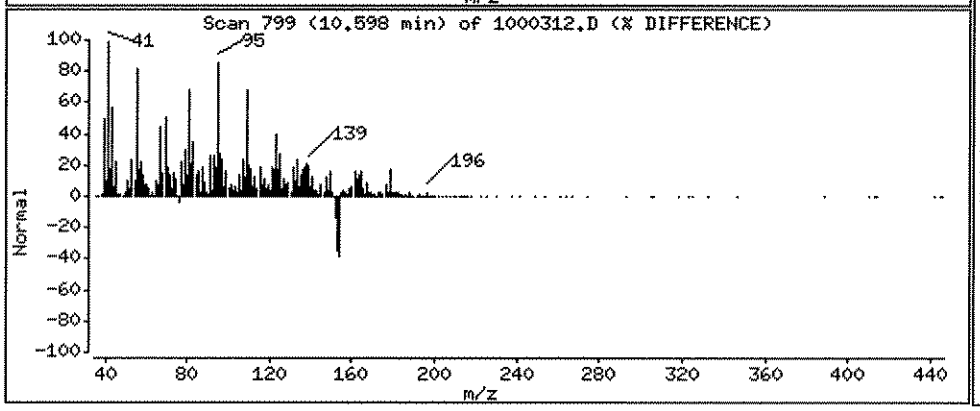
Column phase: fused silica | Column diameter: 0.25

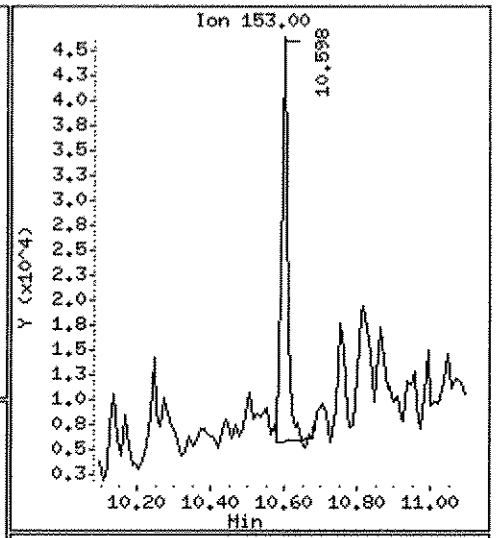
80 Acenaphthene | Concentration: 1.325 ug/L

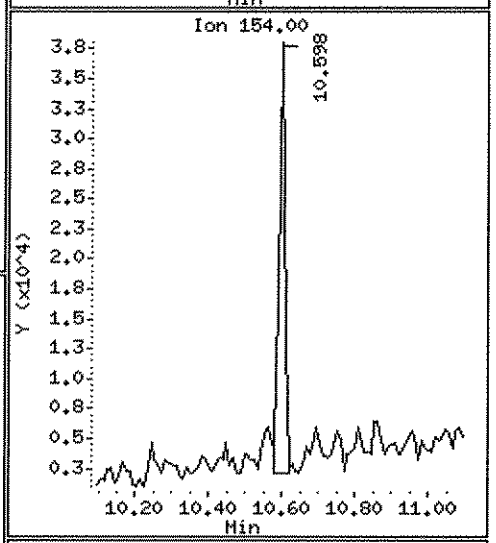


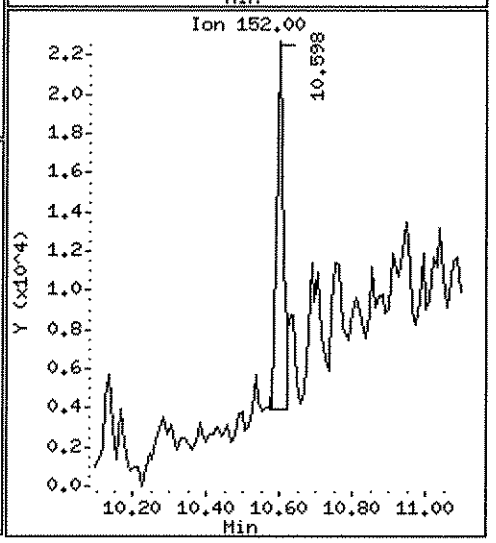












Data File: \\ELABNSH05\TARGET\chem\bna1.i\100511B1.b\1000314.D
Report Date: 06-Oct-2011 09:09

Laboratory Name

Data file : \\ELABNSH05\TARGET\chem\bna1.i\100511B1.b\1000314.D
Lab Smp Id: 1110003-14
Inj Date : 05-OCT-2011 17:01 MS Autotune Date: 03-OCT-2011 13:34
Operator : MEC Inst ID: bna1.i
Smp Info : 1110003-14;;1000;1000;UG/L;;03-OCT-2011
Misc Info : ;0;;;;1J03003;ppbnax.sub;
Comment :
Method : \\ELABNSH05\TARGET\chem\bna1.i\100511B1.b\IXBN1.m
Meth Date : 06-Oct-2011 09:06 amonteiro Quant Type: ISTD
Cal Date : 10-SEP-2011 21:27 Cal File: SEQ-CAL9.D
Als bottle: 15
Dil Factor: 1.00000
Integrator: HP RTE Compound Sublist: ppbnax.sub
Target Version: 4.04
Processing Host: TARGET02_VM

Concentration Formula: Amt * DF * Uf * Vt* Vi/(Amt * Vi)

Name	Value	Description
DF	1.000	Dilution Factor
Uf	0.000	ng unit correction factor
Vt	1000.000	Volume of final extract (uL)
Vi	0.500	Volume injected (uL)
Amt	1000.000	Volume of initial extraction

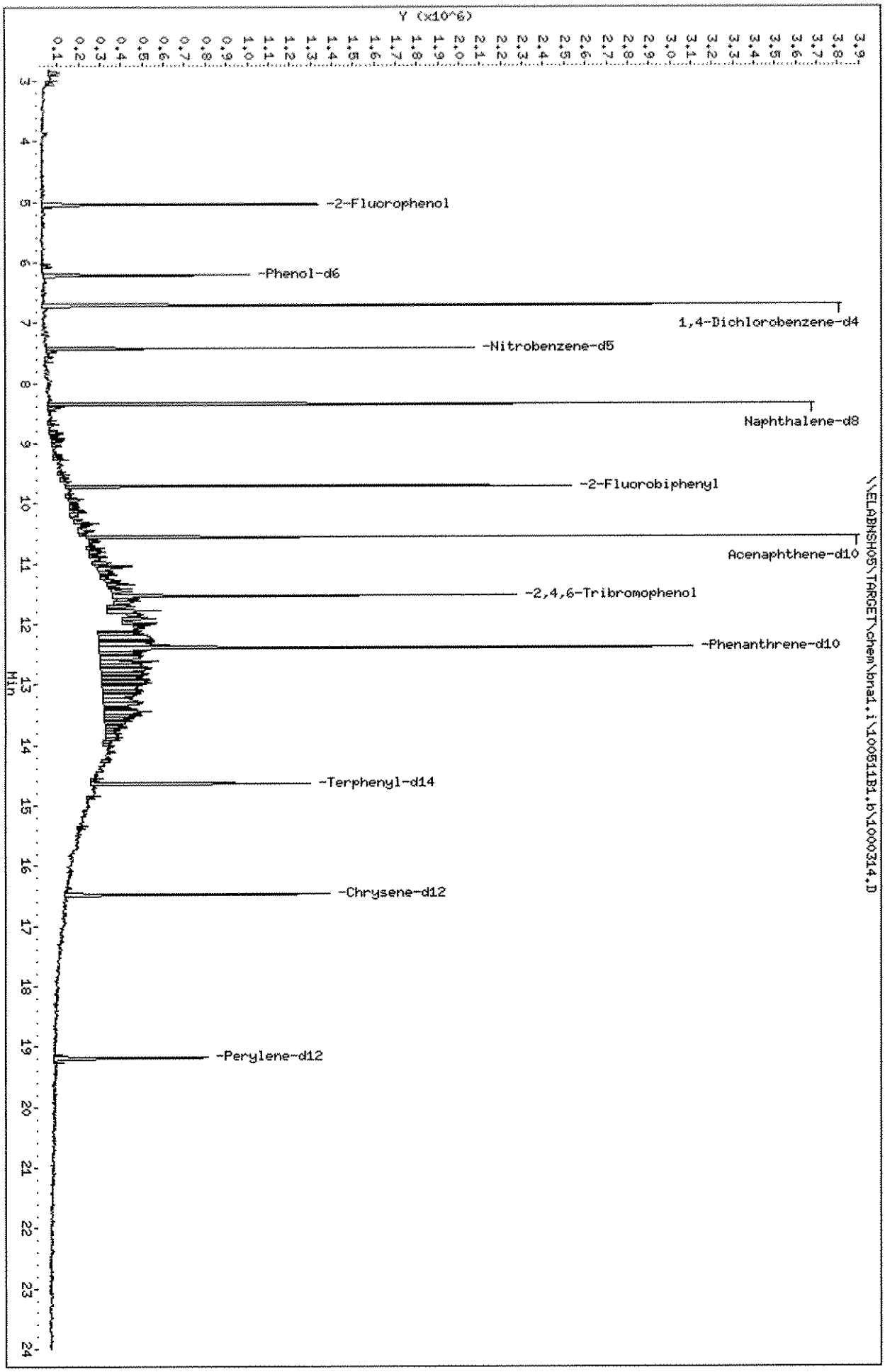
M 10/6/11

Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS ON-COLUMN (ng/ul)	FINAL (ug/L)
* 1 1,4-Dichlorobenzene-d4	152	6.705	6.707	(1.000)	815034	40.0000	
$ 2 2-Fluorophenol	112	5.045	5.039	(0.752)	640551	23.0446	23.04
$ 3 Phenol-d6	99	6.206	6.218	(0.926)	457665	14.2081	14.21
* 33 Naphthalene-d8	136	8.348	8.349	(1.000)	2143737	40.0000	
$ 34 Nitrobenzene-d5	82	7.419	7.420	(0.889)	681395	40.5686	40.57
43 Benzoic acid	105	7.956	8.056	(0.953)	9983	5.16324	5.163(a)
* 69 Acenaphthene-d10	164	10.554	10.554	(1.000)	980445	40.0000	
$ 74 2-Fluorobiphenyl	172	9.718	9.713	(0.921)	966594	29.5480	29.55
* 102 Phenanthrene-d10	188	12.384	12.385	(1.000)	1324302	40.0000	
$ 107 2,4,6-Tribromophenol	330	11.533	11.530	(0.931)	315646	62.3851	62.38
* 132 Chrysene-d12	240	16.473	16.479	(1.000)	660639	40.0000	
$ 135 Terphenyl-d14	244	14.631	14.628	(0.888)	482356	36.0956	36.10
* 154 Perylene-d12	264	19.191	19.191	(1.000)	420652	40.0000	

Data File: \\ELABNSH05\TARGET\chem\bna1.i\100511B1.b\1000314.D
Report Date: 06-Oct-2011 09:09

QC Flag Legend

a - Target compound detected but, quantitated amount
Below Limit Of Quantitation(BLOQ).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Date : 05-OCT-2011 17:01
Client ID:
Sample Info: 1110003-14;;1000;1000;UG/L;;03-OCT-2011
Volume Injected (uL): 0.5
Column phase: fused silica
Instrument: bna1.i
Operator: MEC
Column diameter: 0.25
Y (x10^6)
Min
-2-Fluorophenol
-Phenol-d6
1,4-Dichlorobenzene-d4
-Nitrobenzene-d5
Naphthalene-d8
-2-Fluorobiphenyl
Acenaphthene-d10
-2,4,6-Tribromophenol
-Phenanthrene-d10
-Terphenyl-d14
-Chrysene-d12
-Perylene-d12
\\ELABNSH05\TARGET\chem\bna1.i\100511B1.b\1000314.D

Data File: \\ELABNSH05\TARGET\chem\bna1.i\100511B1.b\1000314.D

Date : 05-OCT-2011 17:01

Client ID:

Instrument: bna1.i

Sample Info: 1110003-14;;1000;1000;UG/L;;03-OCT-2011

Volume Injected (uL): 0.5

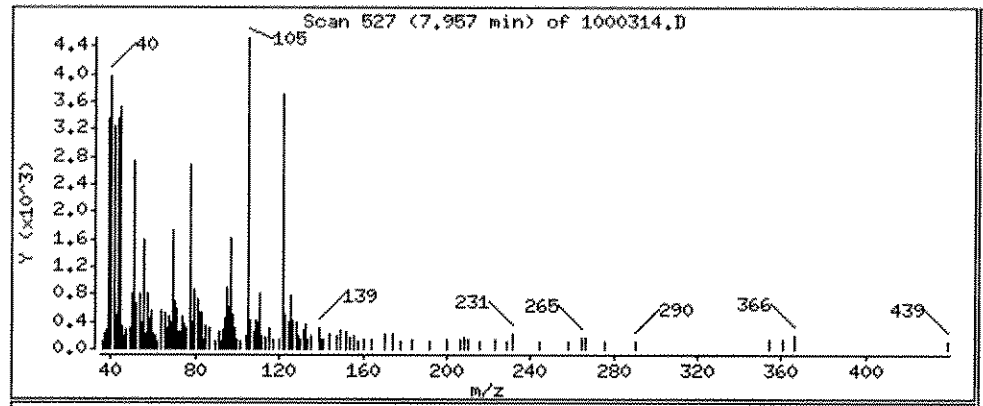
Operator: MEC

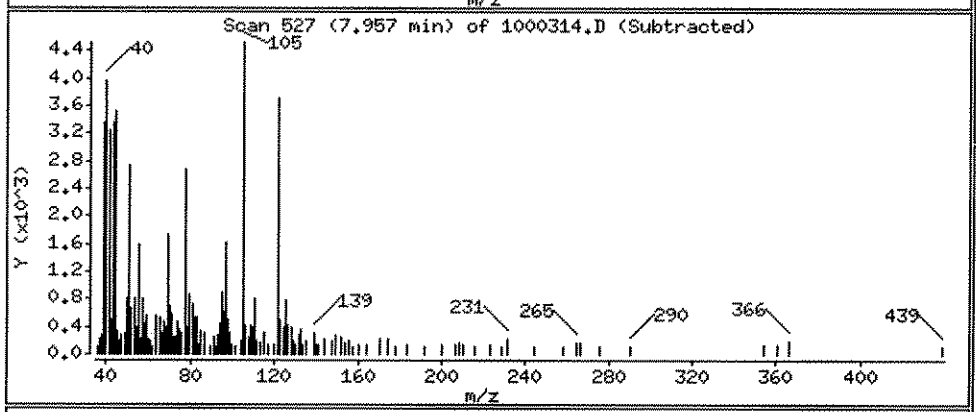
Column phase: fused silica

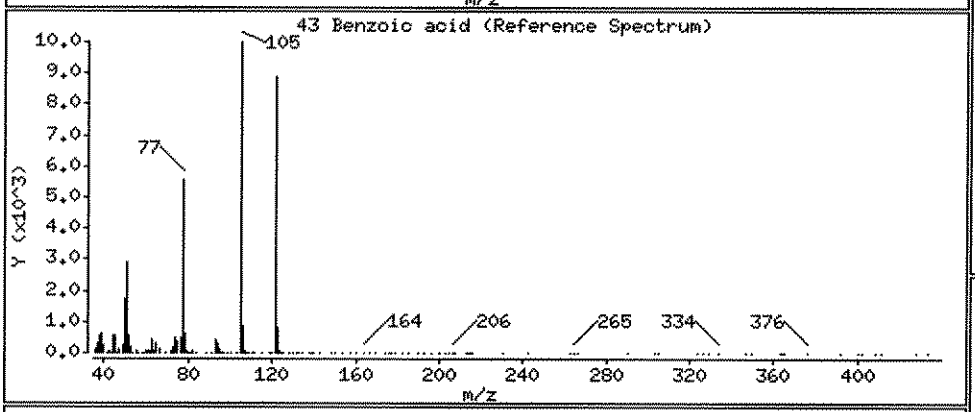
Column diameter: 0.25

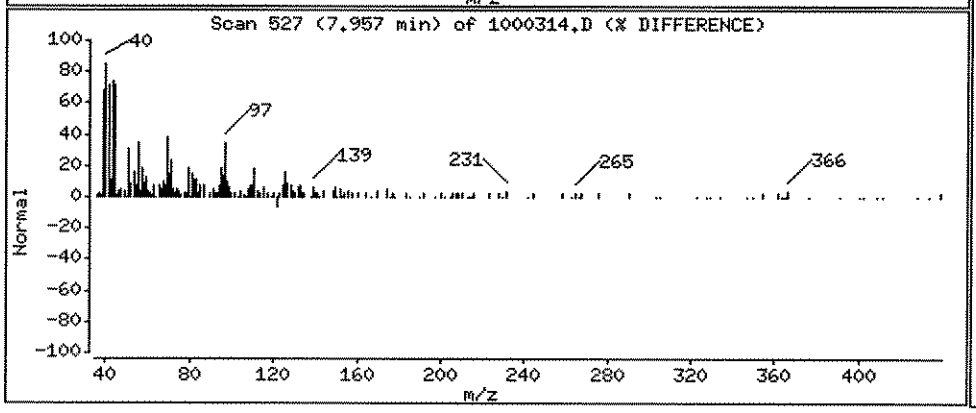
43 Benzoic acid

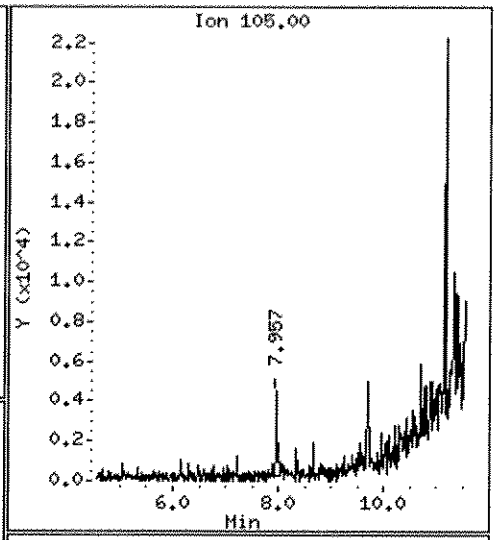
Concentration: 5.163 ug/L

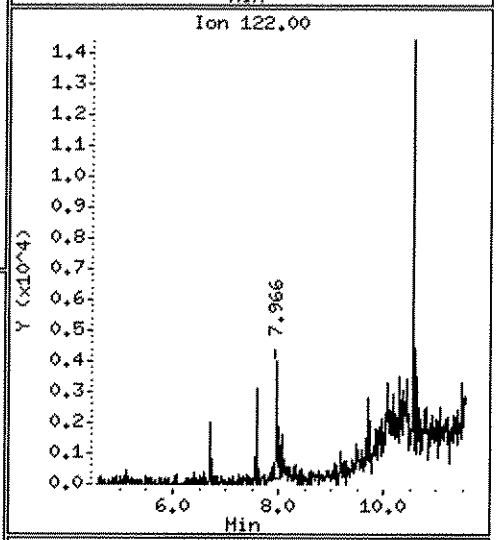


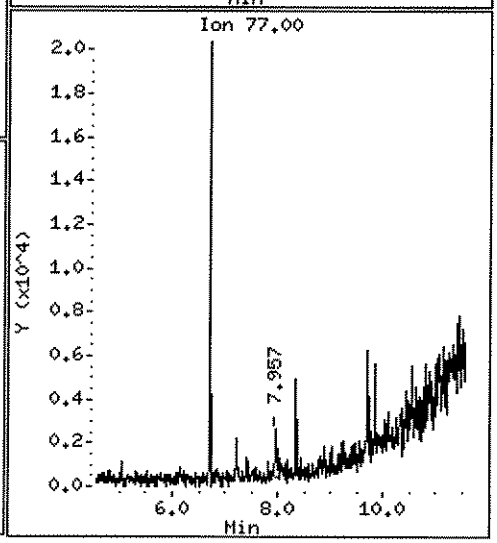












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Report Date: 06-Oct-2011 09:58

Laboratory Name

Data file : \\ELABNSH05\TARGET\chem\bna1.i\100511B1.b\1000312M.D
Lab Smp Id: 1J03003-MS1 Client Smp ID: 1J03003-MS1
Inj Date : 05-OCT-2011 17:35 MS Autotune Date: 03-OCT-2011 13:34
Operator : MEC Inst ID: bna1.i
Smp Info : 1J03003-MS1;;1000;1000;UG/L;;03-OCT-2011
Misc Info : ;3;MS;;;1J03003;ppbnax.sub;
Comment :
Method : \\ELABNSH05\TARGET\chem\bna1.i\100511B1.b\IXBN1.m
Meth Date : 06-Oct-2011 09:06 amonteiro Quant Type: ISTD
Cal Date : 10-SEP-2011 21:27 Cal File: SEQ-CAL9.D
Als bottle: 16 QC Sample: MS
Dil Factor: 1.00000
Integrator: HP RTE Compound Sublist: ppbnax.sub
Target Version: 4.04
Processing Host: TARGET02_VM

Concentration Formula: Amt * DF * Uf * Vt* Vi/(Amt * Vi)

Name	Value	Description
DF	1.000	Dilution Factor
Uf	0.000	ng unit correction factor
Vt	1000.000	Volume of final extract (uL)
Vi	0.500	Volume injected (uL)
Amt	1000.000	Volume of initial extraction

Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS ON-COLUMN (ng/ul)	FINAL (ug/L)
* 1 1,4-Dichlorobenzene-d4	152	6.706	6.707	(1.000)	1004696	40.0000	
$ 2 2-Fluorophenol	112	5.044	5.039	(0.752)	678087	19.7898	19.79(R)
$ 3 Phenol-d6	99	6.218	6.218	(0.927)	499761	12.5861	12.59
4 Pyridine	79	3.628	3.607	(0.541)	370894	12.1603	12.16(a)
5 1,4-Dioxane	88	3.266	3.257	(0.487)	158597	11.7232	11.72
6 N-Nitroso-di-methylamine	42	3.579	3.568	(0.534)	221227	14.7897	14.79
7 Aniline	93	6.286	6.287	(0.937)	625848	14.8213	14.82
10 Phenol	94	6.237	6.238	(0.930)	267469	7.22954	7.230
11 bis(2-Chloroethyl)ether	93	6.364	6.365	(0.949)	1005230	31.1637	31.16
12 2-Chlorophenol	128	6.433	6.423	(0.959)	758720	20.5769	20.58
13 1,3-Dichlorobenzene	146	6.638	6.628	(0.990)	1116980	27.9926	27.99
14 1,4-Dichlorobenzene	146	6.736	6.726	(1.004)	1092086	27.5133	27.51
15 Benzyl alcohol	108	6.882	6.883	(1.026)	395161	20.0447	20.04
16 1,2-Dichlorobenzene	146	6.921	6.922	(1.032)	1151347	29.2326	29.23

Data File: \\ELABNSH05\TARGET\chem\bna1.i\100511B1.b\1000312M.D
Report Date: 06-Oct-2011 09:58

	Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS ON-COLUMN (ng/ul)	FINAL (ug/L)
	17 2-Methylphenol	108	7.029	7.020	(1.048)	484719	17.3898	17.39(R)
	18 2,2'-Oxybis-1-chloropropane	45	7.059	7.059	(1.053)	1655586	36.9234	36.92
	19 3-Methylphenol	108	7.225	7.225	(1.077)	379883	14.2943	14.29
	20 4-Methylphenol	108	7.225	7.225	(1.077)	379883	14.2943	14.29(R)
	196 3-Methylphenol/4-Methylphenol	108	7.225	7.225	(1.077)	379883	14.2943	14.29
	21 N-Nitroso-di-n-propylamine	70	7.235	7.235	(1.079)	595072	37.6675	37.67
	22 Hexachloroethane	117	7.363	7.352	(1.098)	421157	23.1840	23.18
	32 Benzaldehyde	106	6.149	6.150	(0.917)	717613	35.3846	35.38
*	33 Naphthalene-d8	136	8.349	8.349	(1.000)	2783578	40.0000	
$	34 Nitrobenzene-d5	82	7.422	7.420	(0.889)	937731	42.9970	43.00
	35 Nitrobenzene	77	7.451	7.450	(0.892)	873617	43.2690	43.27
	39 Isophorone	82	7.764	7.762	(0.930)	1442888	36.1787	36.18
	40 2-Nitrophenol	139	7.862	7.850	(0.942)	551319	34.2066	34.21
	42 2,4-Dimethylphenol	107	7.911	7.909	(0.947)	736252	32.6489	32.65
	43 Benzoic acid	105	8.018	8.056	(0.960)	37288	6.37086	6.371(aQM)
	44 bis(2-Chloroethoxy)methane	93	8.048	8.036	(0.964)	1274295	44.9914	44.99
	47 2,4-Dichlorophenol	162	8.165	8.163	(0.978)	664795	30.1444	30.14
	62 2,6-Dichlorophenol	162	8.457	8.447	(1.013)	613734	29.4901	29.49
	50 1,2,4-Trichlorobenzene	180	8.272	8.270	(0.991)	783709	35.9790	35.98
	51 Naphthalene	128	8.379	8.369	(1.004)	2334306	30.5868	30.59
	52 4-Chloroaniline	127	8.447	8.447	(1.012)	439076	14.8102	14.81
	53 Hexachlorobutadiene	225	8.534	8.525	(1.022)	458208	33.6647	33.66
	54 4-Chloro-3-methylphenol	107	9.068	9.062	(1.086)	469554	26.0110	26.01
	55 2-Methylnaphthalene	141	9.262	9.248	(1.109)	1305659	38.1575	38.16
	56 1-Methylnaphthalene	141	9.378	9.373	(1.123)	1492492	46.0421	46.04
	57 Acetophenone	105	7.235	7.225	(1.079)	1347124	32.7708	32.77
	67 1,2,4,5-Tetrachlorobenzene	216	9.465	9.460	(1.134)	815836	42.7313	42.73
	68 Caprolactam	113	9.010	8.916	(1.079)	47098	5.99720	5.997(QRM)
*	69 Acenaphthene-d10	164	10.565	10.554	(1.000)	1249543	40.0000	
	70 Hexachlorocyclopentadiene	237	9.446	9.450	(0.894)	263330	23.9144	23.91
	71 2,4,6-Trichlorophenol	196	9.656	9.654	(0.914)	438276	34.4366	34.44
	72 2,4,5-Trichlorophenol	196	9.656	9.654	(0.914)	438276	34.1021	34.10
	73 2-Chloronaphthalene	162	9.869	9.869	(0.934)	1467043	37.4882	37.49
$	74 2-Fluorobiphenyl	172	9.724	9.713	(0.920)	1359174	32.6011	32.60
	75 2-Nitroaniline	65	10.003	9.995	(0.947)	338849	38.9537	38.95
	76 Dimethylphthalate	163	10.233	10.231	(0.969)	1892728	43.0414	43.04
	77 Acenaphthylene	152	10.386	10.378	(0.983)	1922254	33.9271	33.93
	78 2,6-Dinitrotoluene	165	10.310	10.299	(0.976)	413731	34.5466	34.55
	79 3-Nitroaniline	138	10.518	10.505	(0.996)	298156	20.8085	20.81
	80 Acenaphthene	153	10.602	10.594	(1.004)	1393373	36.5594	36.56
	81 2,4-Dinitrophenol	184	10.640	10.633	(1.007)	55059	11.4197	11.42(a)
	83 4-Nitrophenol	65	10.742	10.701	(1.017)	25252	5.12231	5.122(aQM)
	84 Dibenzofuran	168	10.816	10.809	(1.024)	1872257	38.7522	38.75
	85 2,4-Dinitrotoluene	165	10.806	10.799	(1.023)	540167	37.1629	37.16
	86 Diethylphthalate	149	11.103	11.102	(1.051)	1585234	34.6570	34.66
	87 4-Chlorophenyl-phenylether	204	11.242	11.229	(1.064)	685907	42.8161	42.82
	88 Fluorene	166	11.242	11.229	(1.064)	1384299	37.7570	37.76

Data File: \\ELABNSH05\TARGET\chem\bna1.i\100511B1.b\1000312M.D
Report Date: 06-Oct-2011 09:58

Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS ON-COLUMN (ng/ul)	FINAL (ug/L)
89 4-Nitroaniline	138	11.270	11.297	(1.067)	203918	15.0246	15.02(aQRM)
96 2,3,4,6-Tetrachlorophenol	232	10.973	10.956	(1.039)	291653	27.6134	27.61(M)
100 1,1'-Biphenyl	154	9.849	9.840	(0.932)	1892532	40.7979	40.80
* 102 Phenanthrene-d10	188	12.392	12.385	(1.000)	1610662	40.0000	
103 1,2-Diphenylhydrazine	77	11.436	11.423	(0.923)	1204900	39.7880	39.79
104 Carbazole	167	12.698	12.678	(1.025)	1543529	36.5810	36.58
105 4,6-Dinitro-2-methylphenol	198	11.307	11.297	(0.912)	133286	19.0739	19.07(aRM)
106 N-Nitrosodiphenylamine	169	11.390	11.384	(0.919)	933110	36.0752	36.08
$ 107 2,4,6-Tribromophenol	330	11.538	11.530	(0.931)	343780	55.8655	55.86
108 4-Bromophenyl-phenylether	248	11.844	11.831	(0.956)	419433	47.5860	47.59
109 Hexachlorobenzene	284	11.909	11.899	(0.961)	438340	42.1649	42.16
110 Pentachlorophenol	266	12.160	12.143	(0.981)	188022	24.9927	24.99
111 Phenanthrene	178	12.429	12.415	(1.003)	1789009	41.9208	41.92
112 Anthracene	178	12.485	12.483	(1.007)	1673811	39.1897	39.19
115 Di-n-butylphthalate	149	13.154	13.136	(1.061)	2301531	37.1721	37.17
116 Fluoranthene	202	14.047	14.033	(1.134)	1478431	36.2948	36.29
129 Atrazine	200	12.095	12.036	(0.976)	256997	31.6516	31.65(R)
* 132 Chrysene-d12	240	16.488	16.479	(1.000)	776320	40.0000	
134 Pyrene	202	14.391	14.375	(0.873)	1538858	54.5741	54.57
$ 135 Terphenyl-d14	244	14.643	14.628	(0.888)	342703	21.8237	21.82(R)
136 Butylbenzylphthalate	149	15.490	15.487	(0.940)	798959	42.0018	42.00
138 Benzo(a)anthracene	228	16.469	16.525	(0.999)	1013837	43.1283	43.13(H)
139 Chrysene	228	16.534	16.525	(1.003)	999401	44.0464	44.05
140 Bis(2-ethylhexyl)phthalate	149	16.590	16.583	(1.006)	1163867	44.0189	44.02
* 154 Perylene-d12	264	19.189	19.191	(1.000)	684404	40.0000	
155 Di-n-octylphthalate	149	17.867	17.863	(0.931)	1770624	39.3899	39.39
156 Benzo(b)fluoranthene	252	18.491	18.489	(0.964)	820163	40.0398	40.04
157 Benzo(k)fluoranthene	252	18.547	18.548	(0.967)	866654	41.5465	41.55
158 Benzo(a)pyrene	252	19.086	19.085	(0.995)	744144	40.2117	40.21
159 Indeno(1,2,3-cd)pyrene	276	21.325	21.317	(1.111)	589510	44.2885	44.29
160 Dibenz(a,h)anthracene	278	21.380	21.374	(1.114)	589949	44.2293	44.23
161 Benzo(g,h,i)perylene	276	21.936	21.929	(1.143)	600294	43.3870	43.39

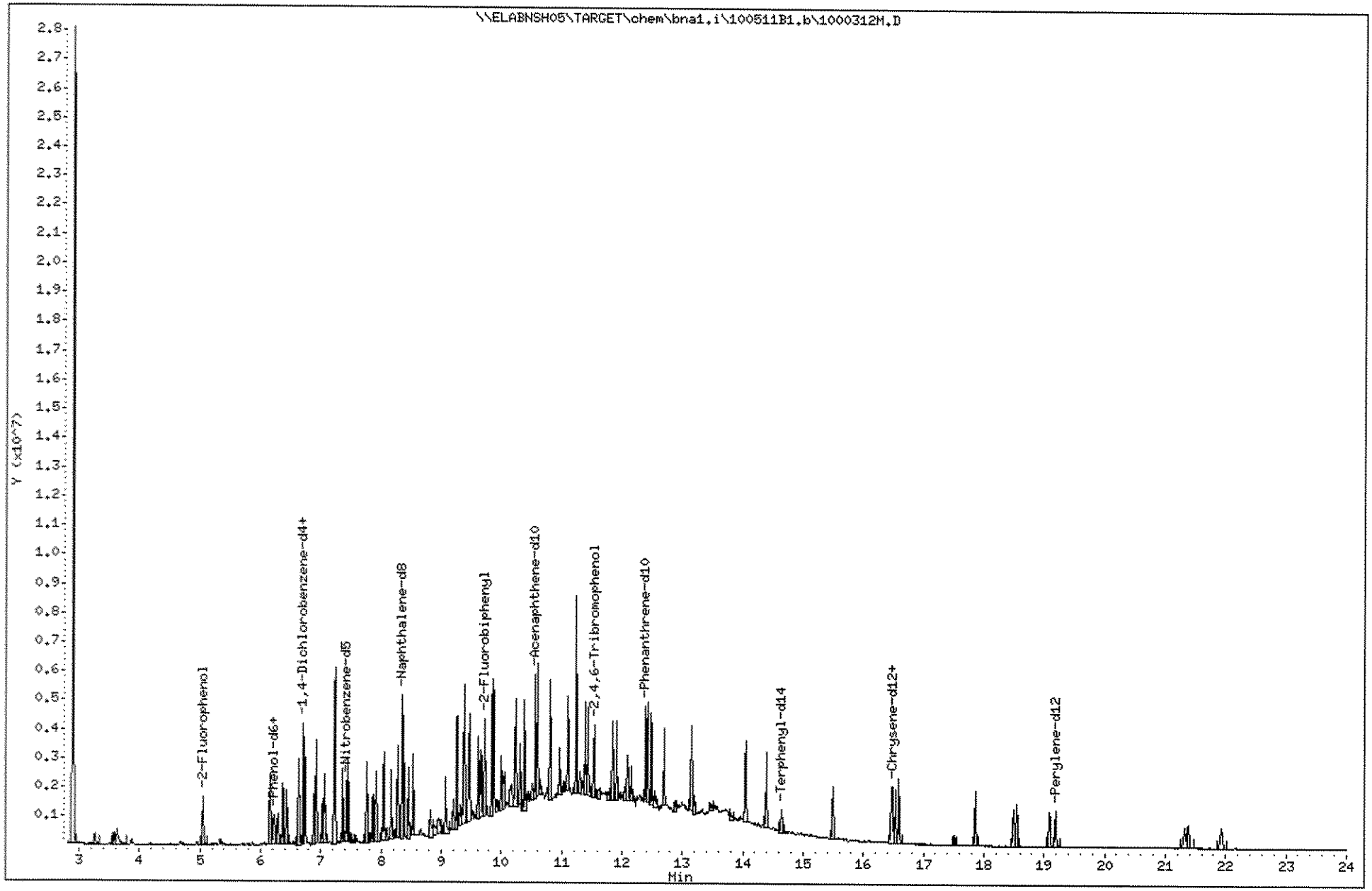
QC Flag Legend

a - Target compound detected but, quantitated amount
    Below Limit Of Quantitation(BLOQ).
Q - Qualifier signal failed the ratio test.
R - Spike/Surrogate failed recovery limits.
M - Compound response manually integrated.
H - Operator selected an alternate compound hit.

Data File: \\ELABNSH05\TARGET\chem\bna1.i\100511B1.b\1000312M.D
Date : 05-OCT-2011 17:35
Client ID: 1J03003-MS1
Sample Info: 1J03003-MS1;;1000;1000;UG/L;;03-OCT-2011
Volume Injected (uL): 0.5
Column phase: fused silica

Instrument: bna1.i

Operator: MEC
Column diameter: 0.25



530

1110003

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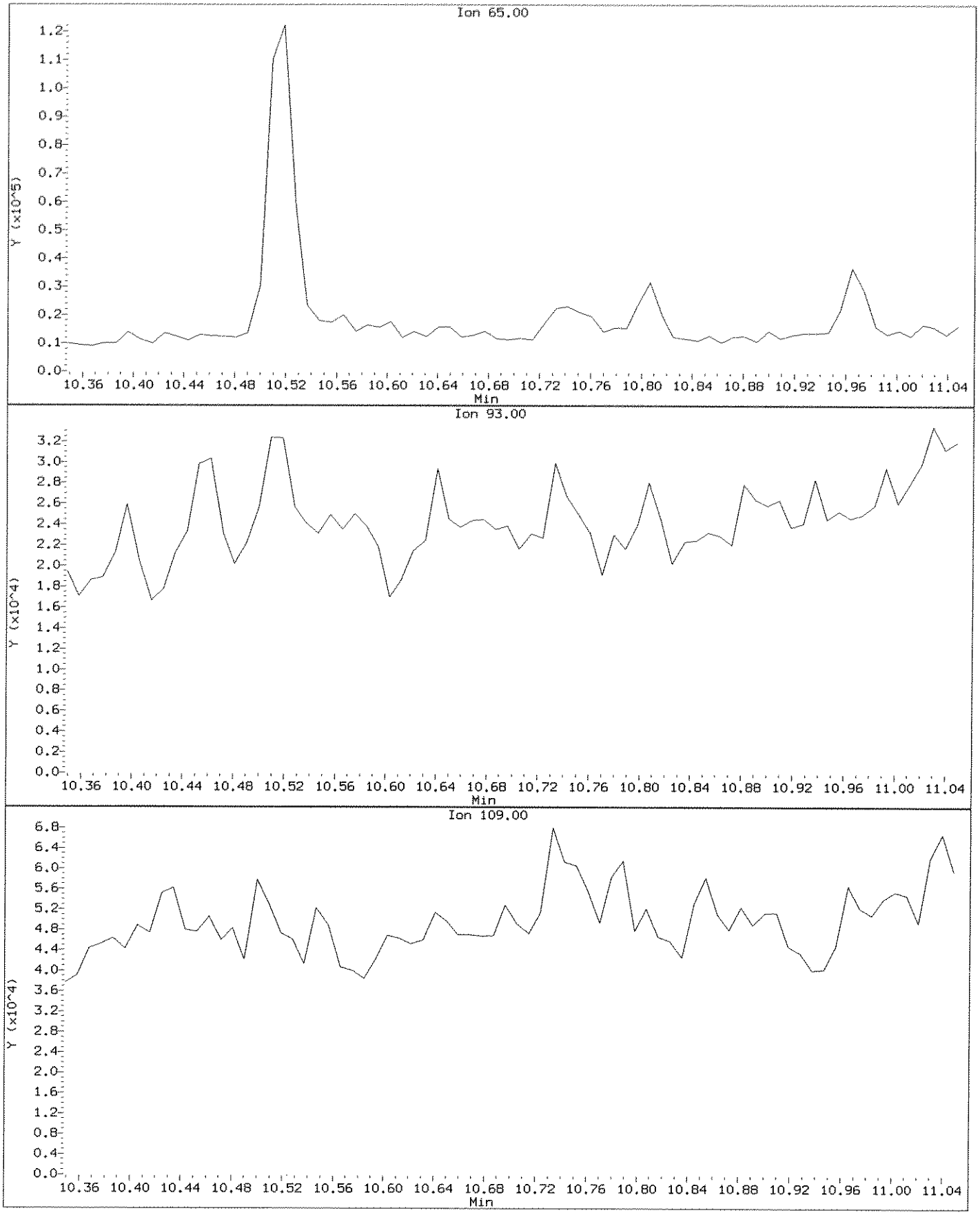
Instrument: bna1.i
Client Sample ID: 1J03003-MS1

Compound: 4-Nitrophenol
CAS Number: 100-02-7



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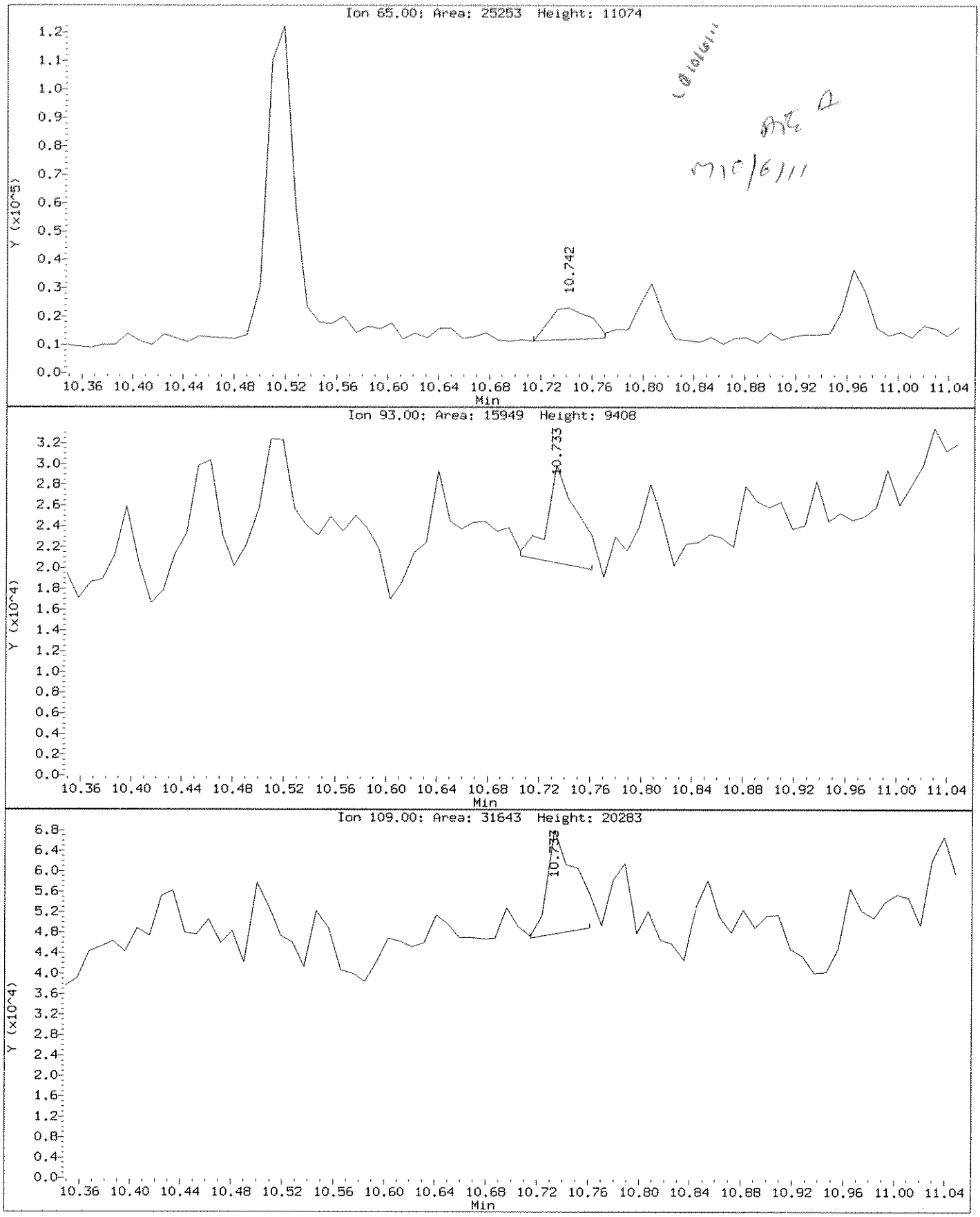
Instrument: bna1.i
Client Sample ID: 1J03003-MS1

Compound: 4-Nitrophenol
CAS Number: 100-02-7



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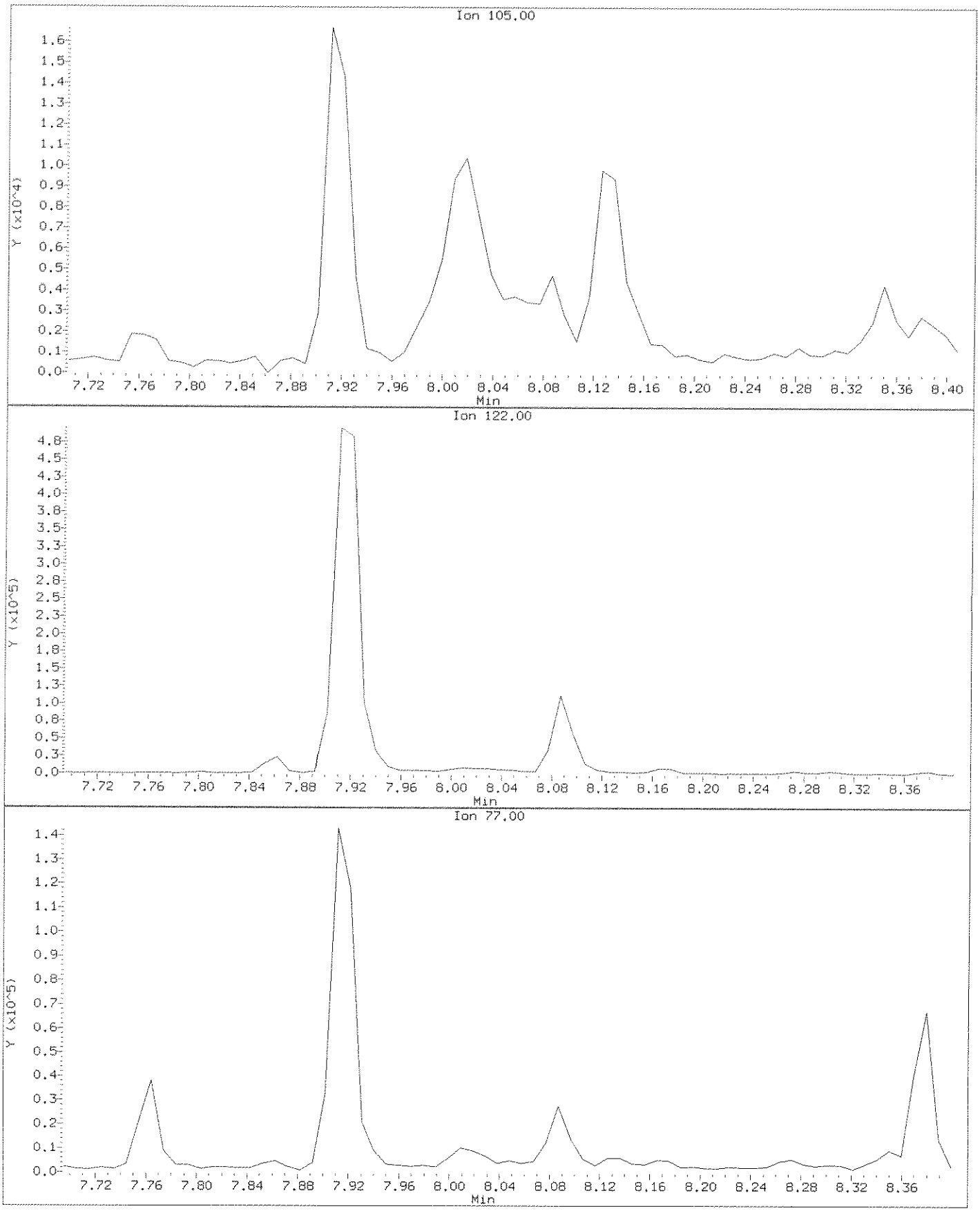
Injection Date: 05-OCT-2011 17:35
Instrument: bna1.i
Client Sample ID: 1J03003-MS1

Compound: Benzoic acid
CAS Number: 65-85-0



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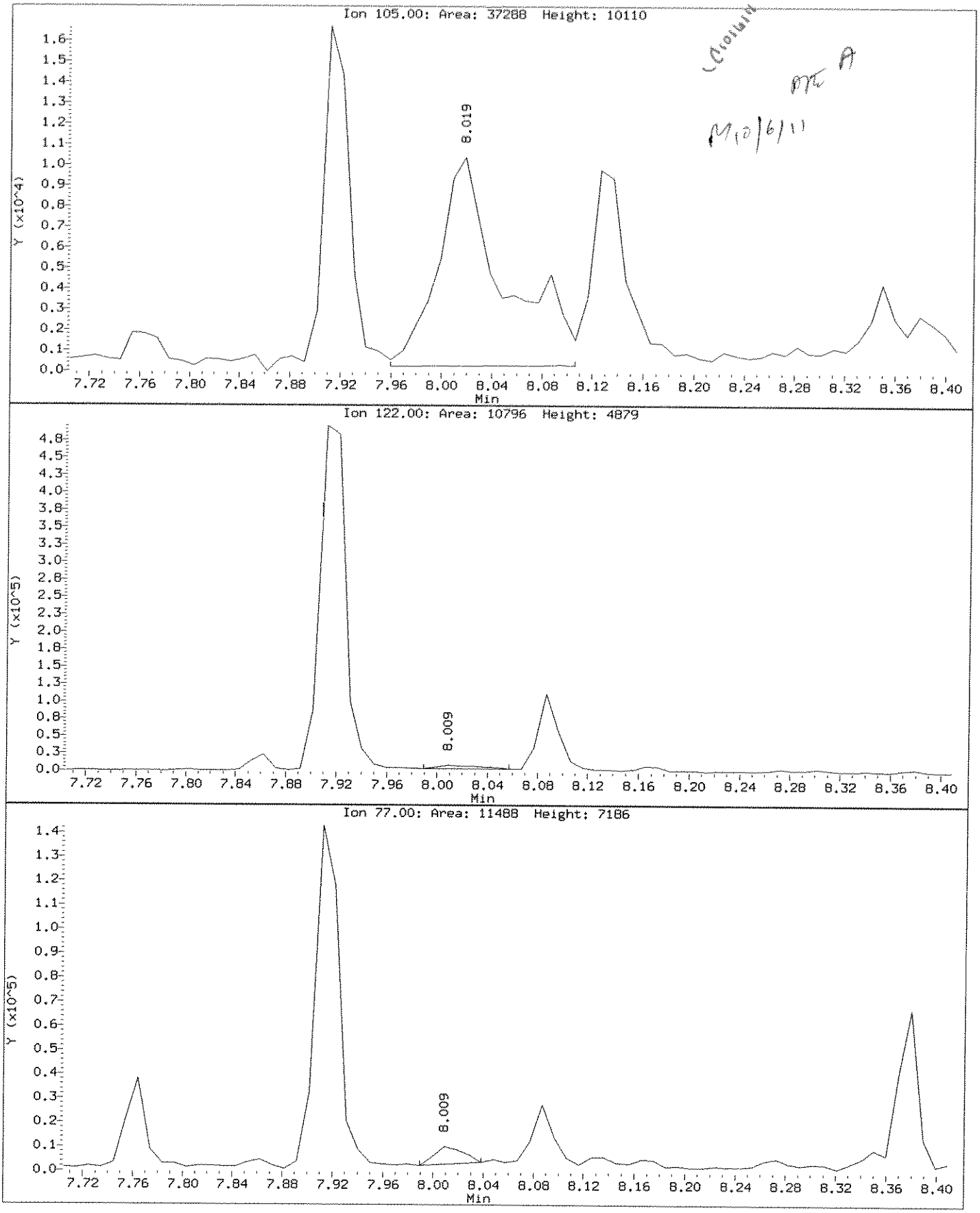
Instrument: bna1.i
Client Sample ID: 1J03003-MS1

Compound: Benzoic acid
CAS Number: 65-85-0



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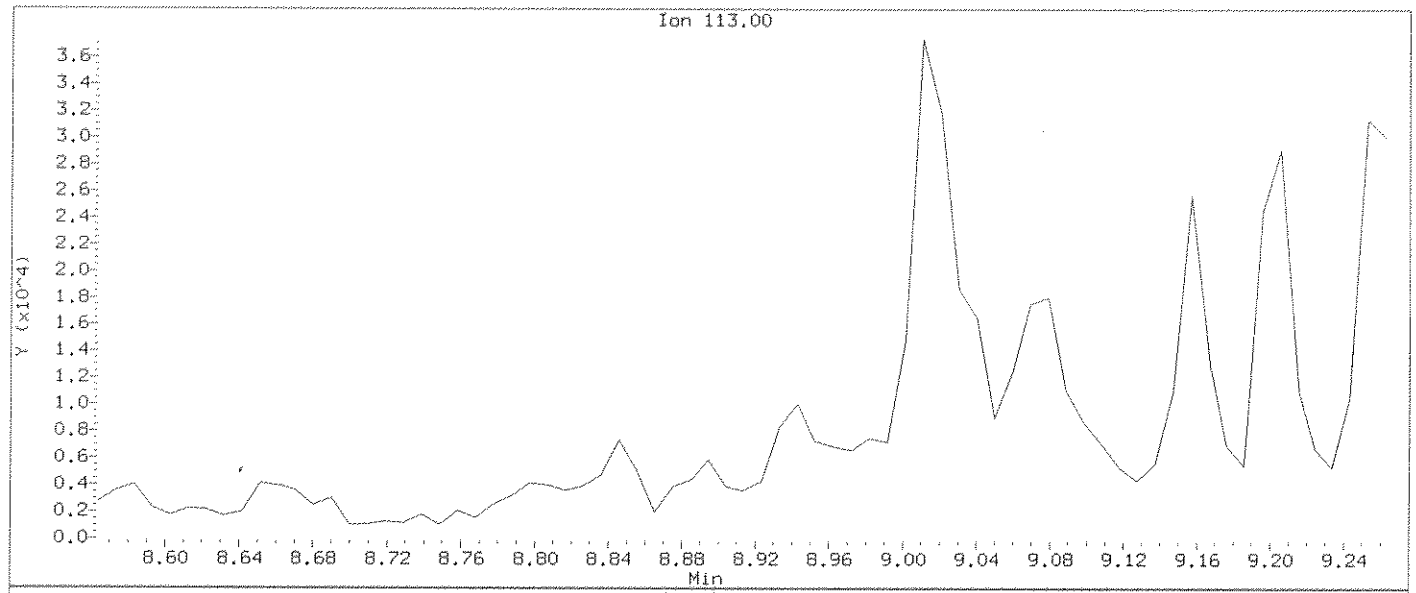
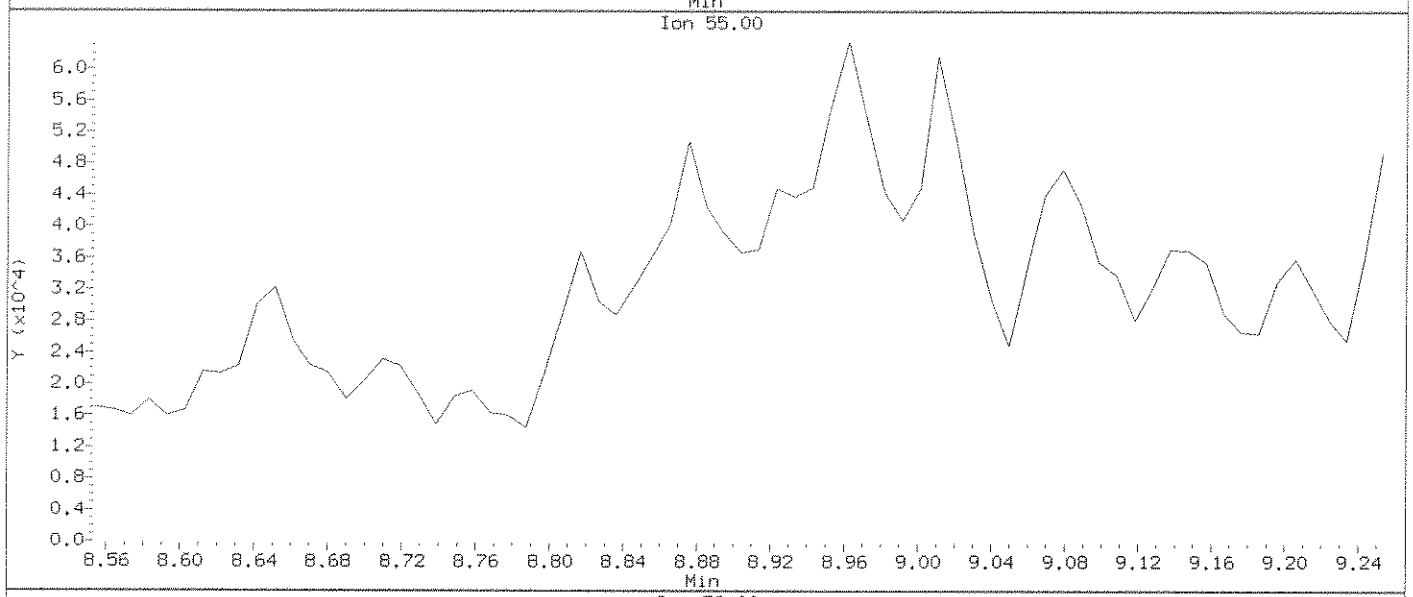
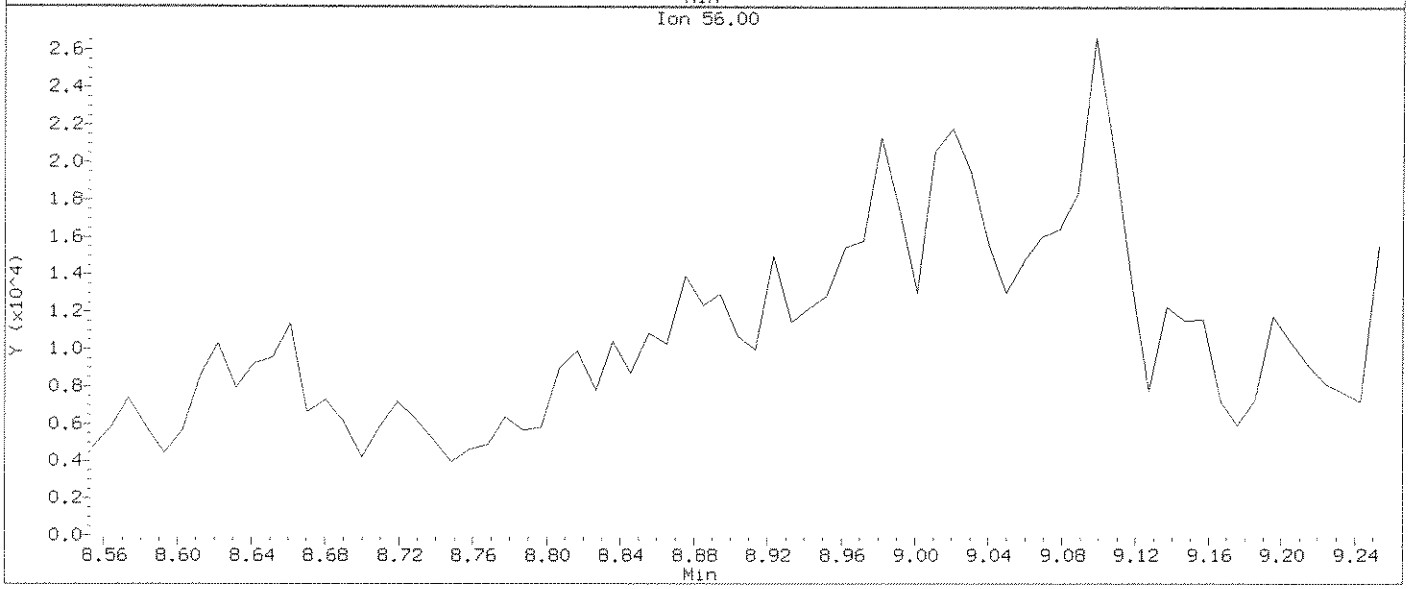
Injection Date: 05-OCT-2011 17:35
Instrument: bna1.i
Client Sample ID: 1J03003-MS1

Compound: Caprolactam
CAS Number: 105-60-2







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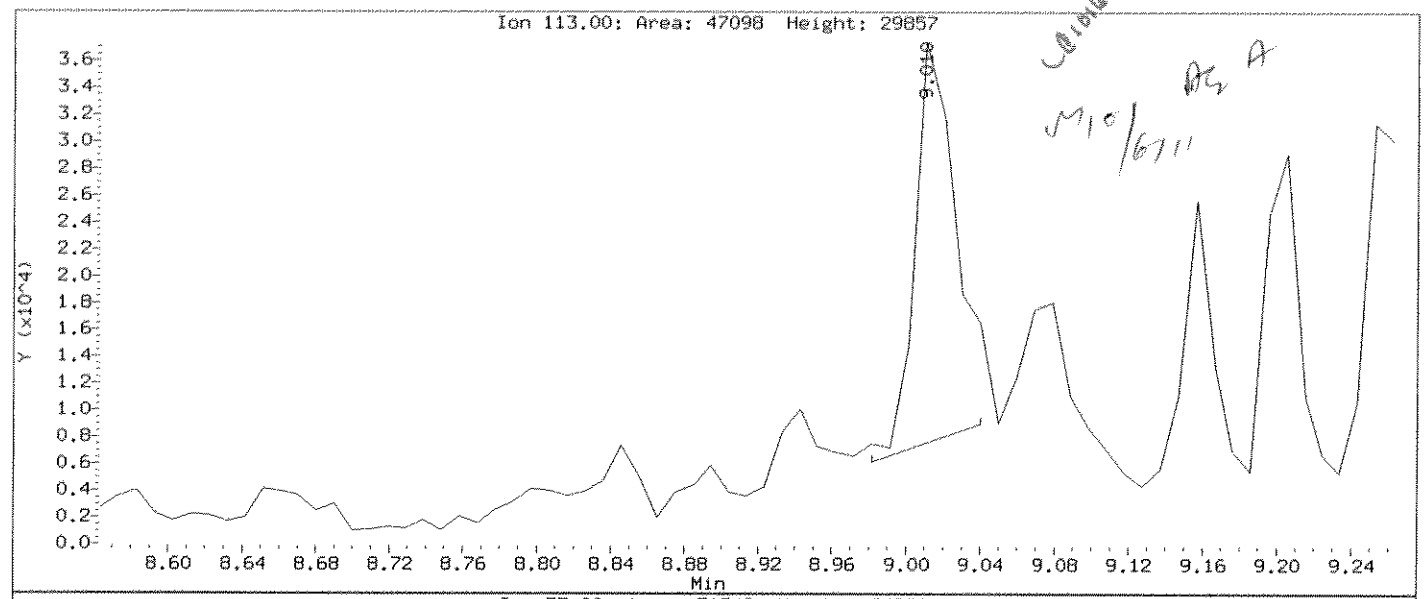
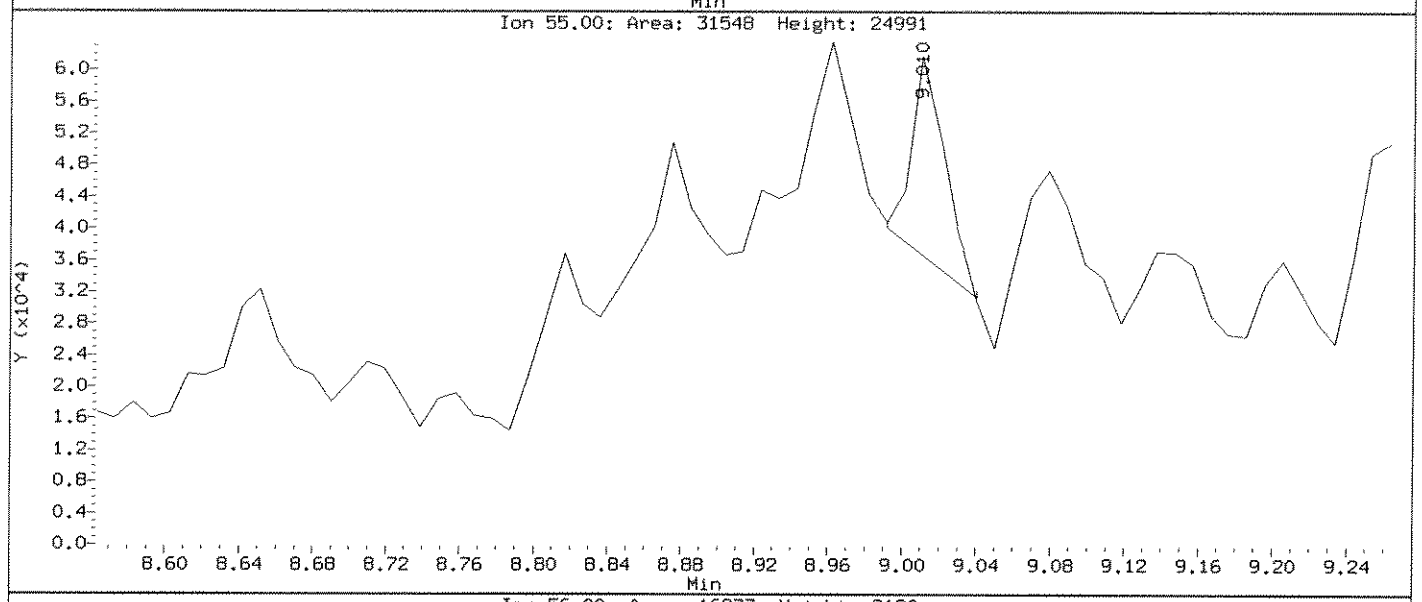
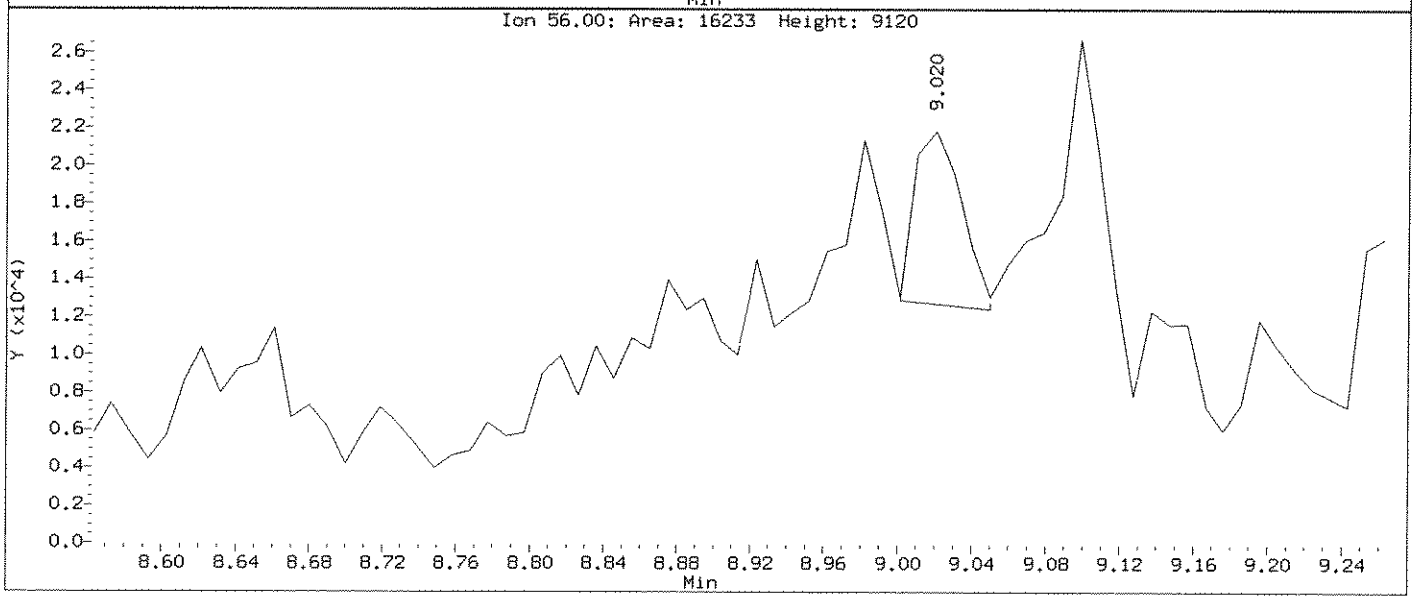
Client Sample ID: 1J03003-MS1

Compound: Caprolactam
CAS Number: 105-60-2







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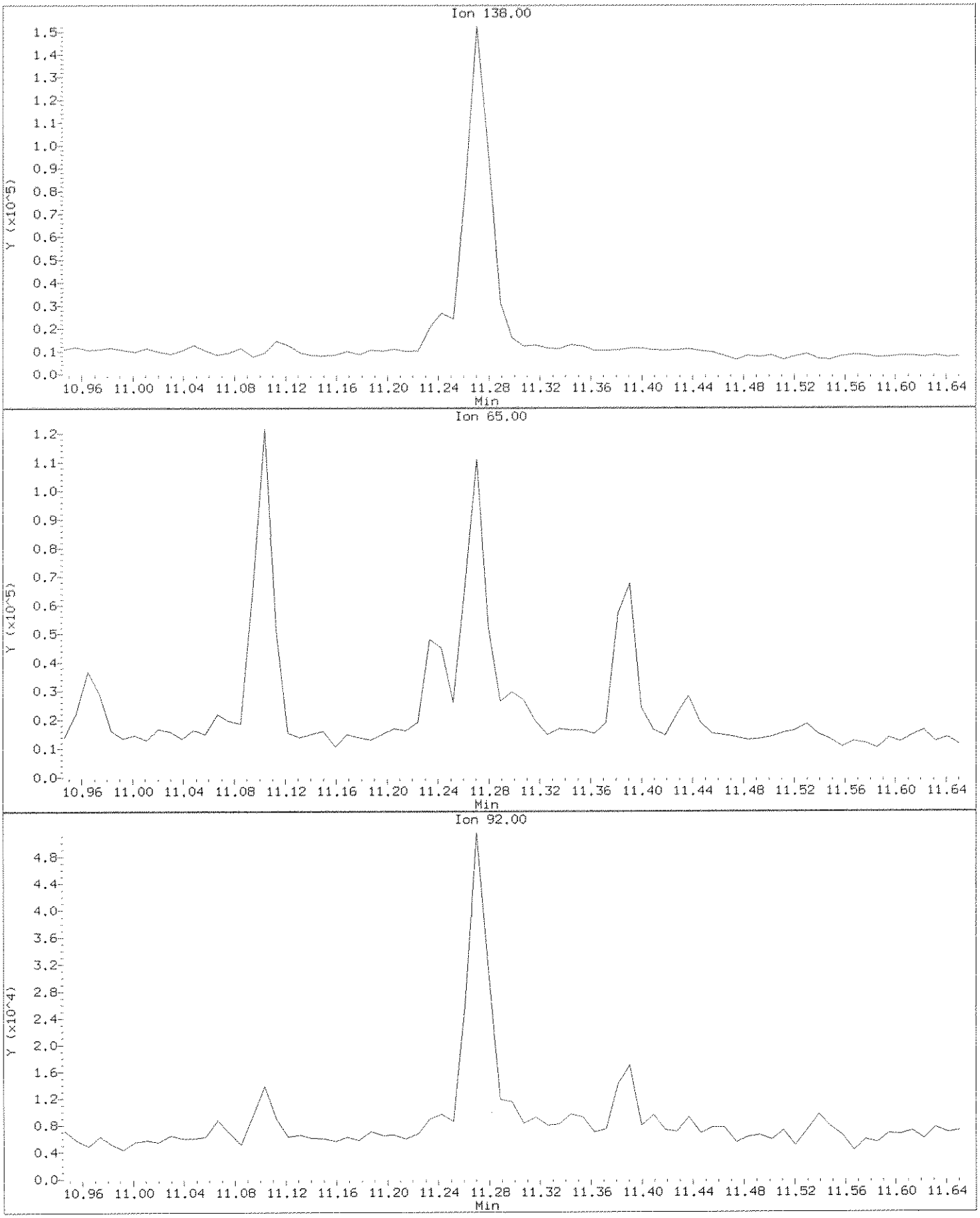
Instrument: bna1.i
Client Sample ID: 1J03003-MS1

Compound: 4-Nitroaniline
CAS Number: 100-01-6



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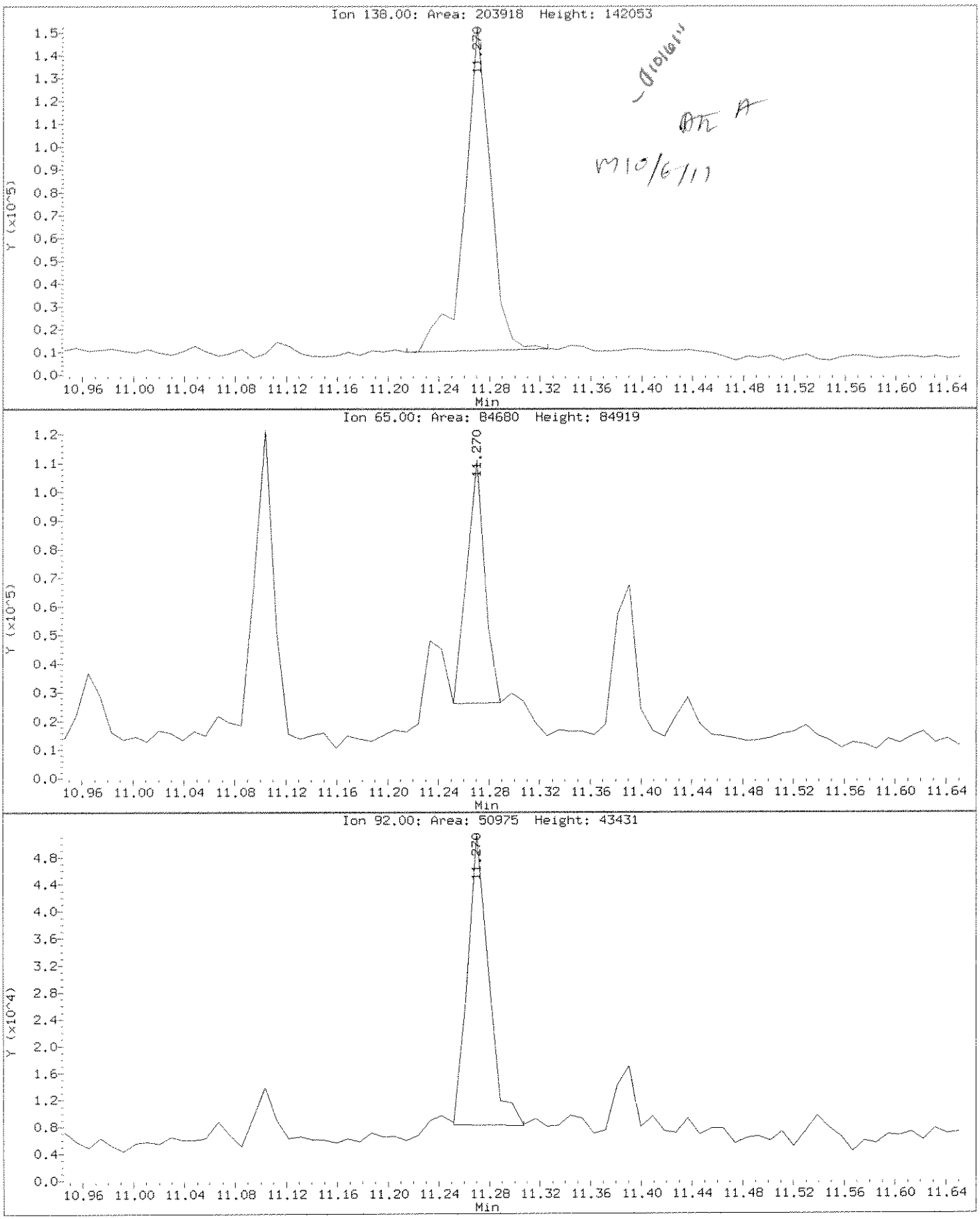
Compound: 4-Nitroaniline
CAS Number: 100-01-6



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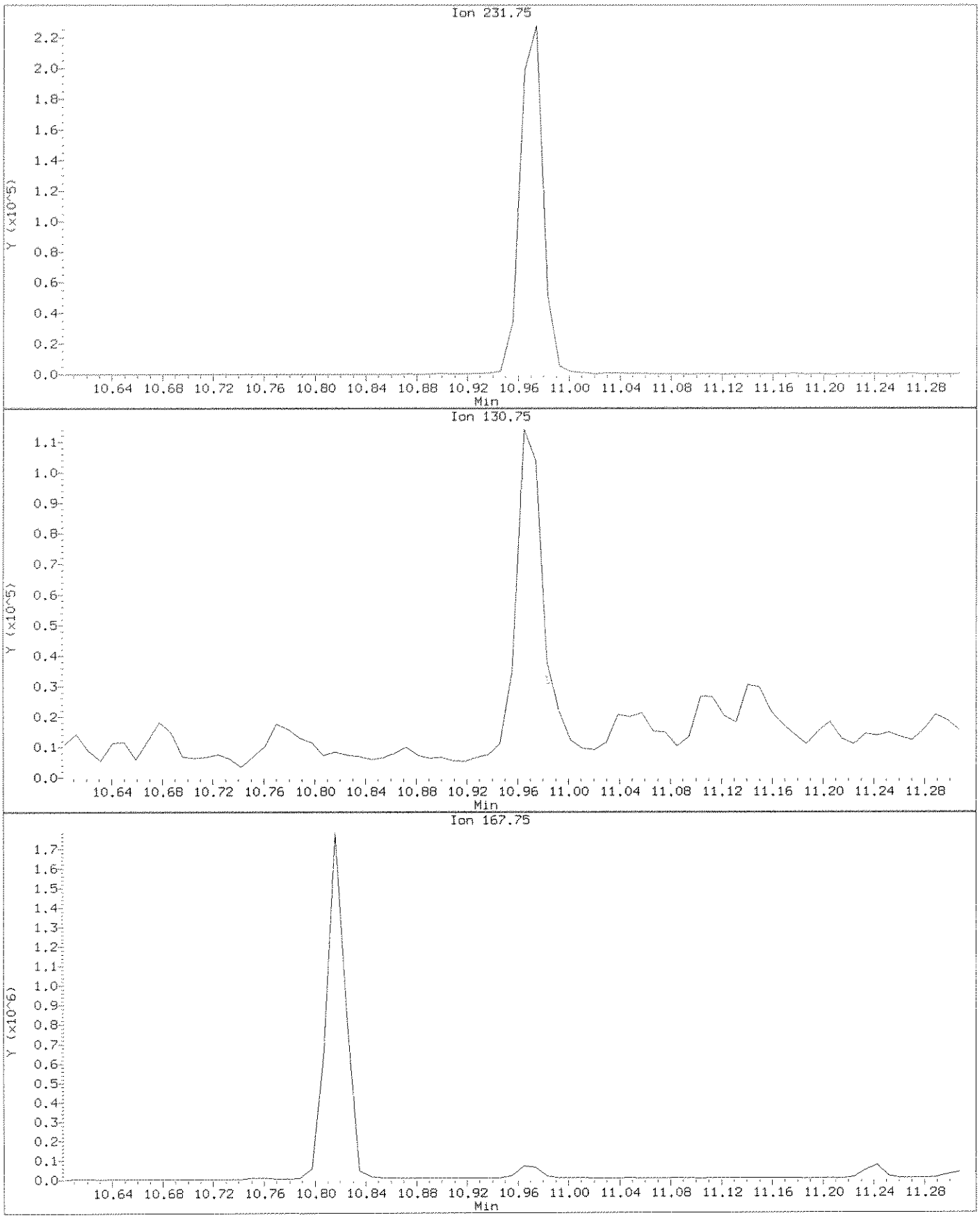
Injection Date: 05-OCT-2011 17:35
Instrument: bna1.i
Client Sample ID: 1J03003-MS1

Compound: 2,3,4,6-Tetrachlorophenol
CAS Number: 58-90-2



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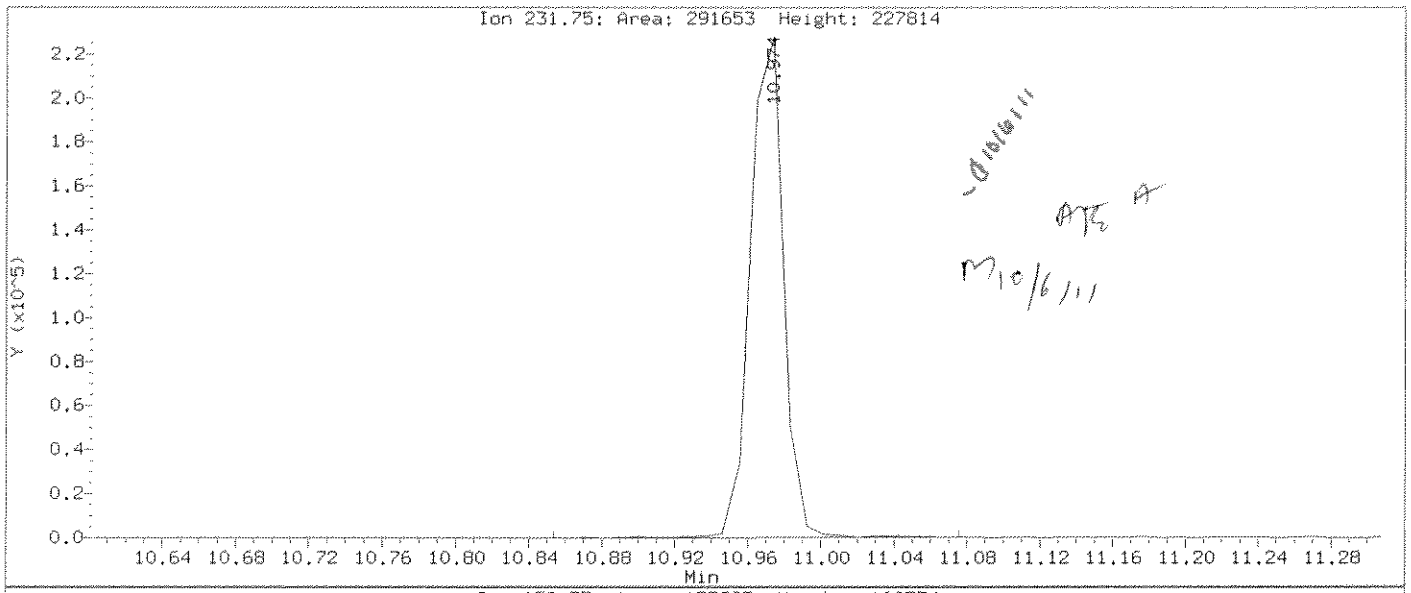
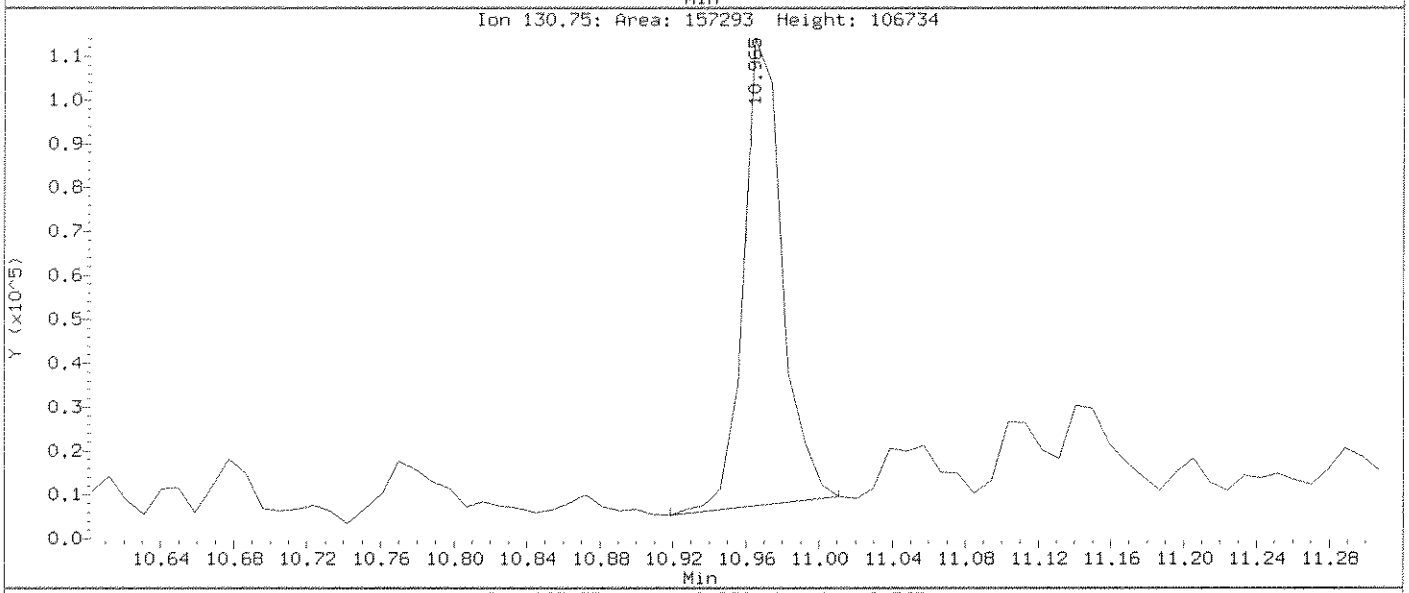
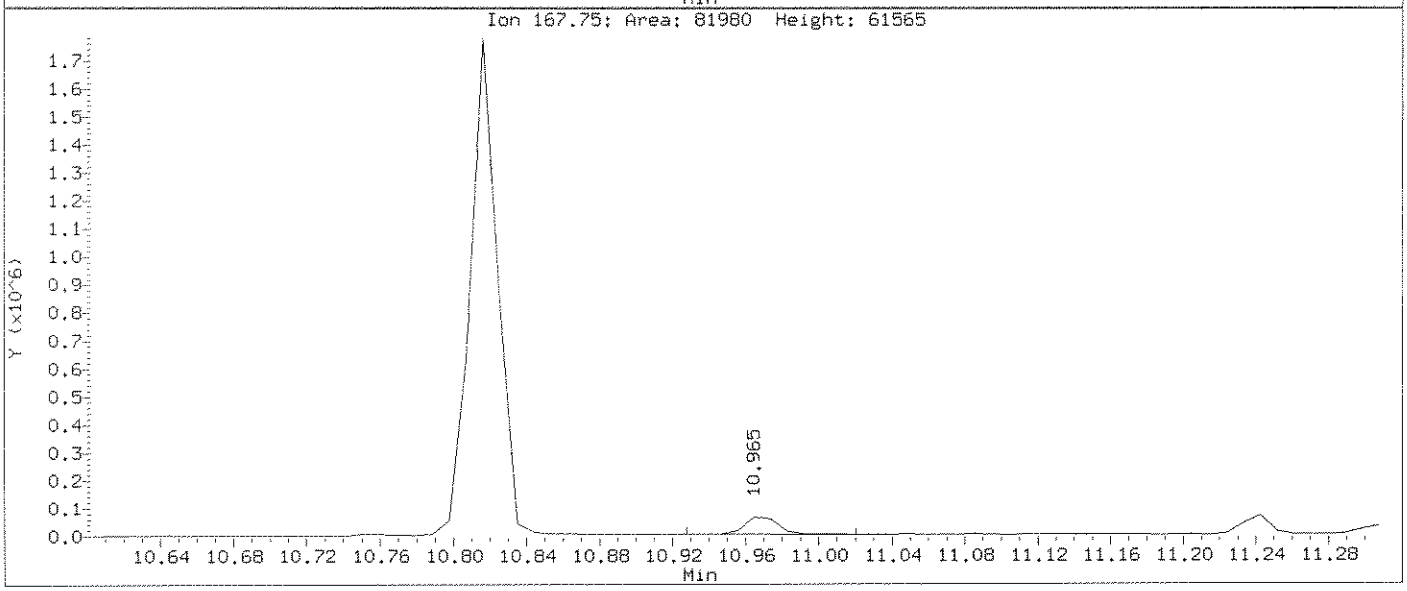
Instrument: bna1.i
Client Sample ID: 1J03003-MS1

Compound: 2,3,4,6-Tetrachlorophenol
CAS Number: 58-90-2







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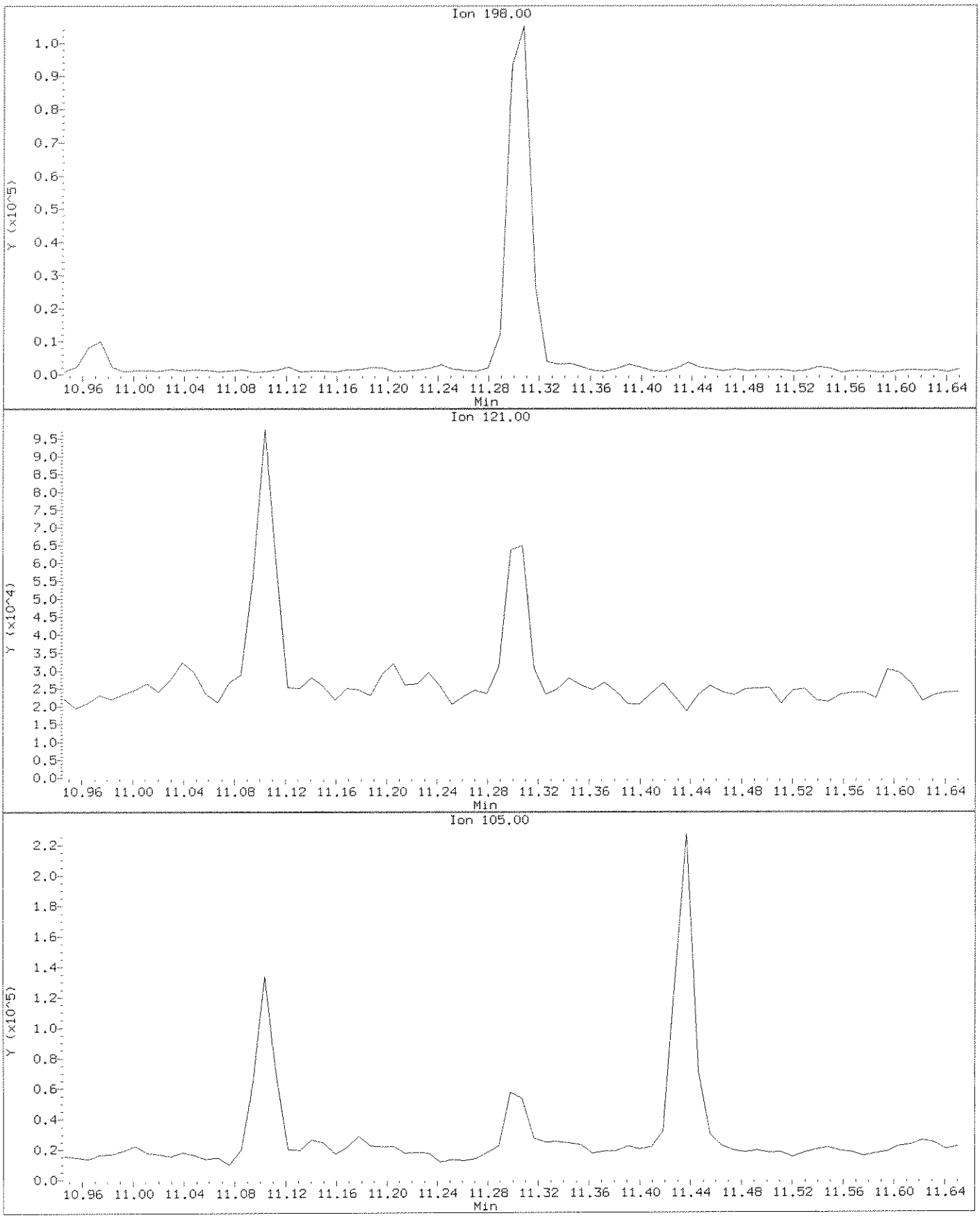
Injection Date: 05-OCT-2011 17:35
Instrument: bna1.i
Client Sample ID: 1J03003-MS1

Compound: 4,6-Dinitro-2-methylphenol
CAS Number: 534-52-1



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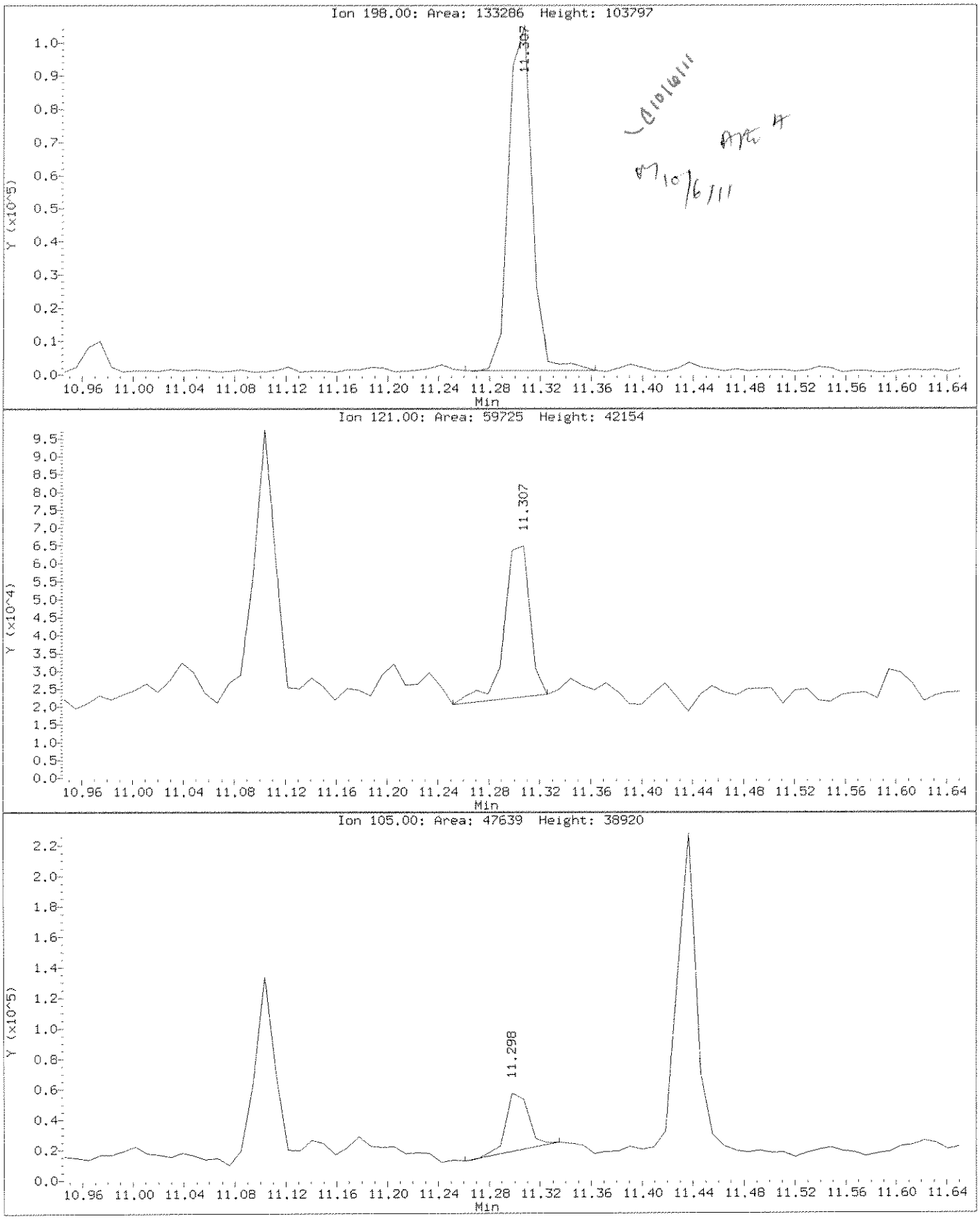
Injection Date: 05-OCT-2011 17:35
Instrument: bna1.i
Client Sample ID: 1J03003-MS1

Compound: 4,6-Dinitro-2-methylphenol
CAS Number: 534-52-1



Data File: \\ELABNSH05\TARGET\chem\bna1.i\100511B1.b\1000312S.D
Report Date: 06-Oct-2011 09:45

Laboratory Name

Data file : \\ELABNSH05\TARGET\chem\bna1.i\100511B1.b\1000312S.D
Lab Smp Id: 1J03003-MSD1 Client Smp ID: 1J03003-MSD1
Inj Date : 05-OCT-2011 18:09 MS Autotune Date: 03-OCT-2011 13:34
Operator : MEC Inst ID: bna1.i
Smp Info : 1J03003-MSD1;;1000;1000;UG/L;;03-OCT-2011
Misc Info : ;3;MSD;;;1J03003;ppbnax.sub;
Comment :
Method : \\ELABNSH05\TARGET\chem\bna1.i\100511B1.b\IXBN1.m
Meth Date : 06-Oct-2011 09:06 amonteiro Quant Type: ISTD
Cal Date : 10-SEP-2011 21:27 Cal File: SEQ-CAL9.D
Als bottle: 17 QC Sample: MSD
Dil Factor: 1.00000
Integrator: HP RTE Compound Sublist: ppbnax.sub
Target Version: 4.04
Processing Host: TARGET02_VM

Concentration Formula: Amt * DF * Uf * Vt* Vi/(Amt * Vi)

Name	Value	Description
DF	1.000	Dilution Factor
Uf	0.000	ng unit correction factor
Vt	1000.000	Volume of final extract (uL)
Vi	0.500	Volume injected (uL)
Amt	1000.000	Volume of initial extraction

M 10/6/11

Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS ON-COLUMN (ng/ul)	FINAL (ug/L)
* 1 1,4-Dichlorobenzene-d4	152	6.710	6.707	(1.000)	1025401	40.0000	
$ 2 2-Fluorophenol	112	5.046	5.039	(0.752)	556898	15.9248	15.92(R)
$ 3 Phenol-d6	99	6.211	6.218	(0.926)	388766	9.59311	9.593(R)
4 Pyridine	79	3.637	3.607	(0.542)	340420	10.9358	10.94(a)
5 1,4-Dioxane	88	3.275	3.257	(0.488)	134415	9.73511	9.735
6 N-Nitroso-di-methylamine	42	3.579	3.568	(0.533)	184639	12.0944	12.09(R)
7 Aniline	93	6.279	6.287	(0.936)	563667	13.0792	13.08
10 Phenol	94	6.230	6.238	(0.929)	198568	5.25881	5.259
11 bis(2-Chloroethyl)ether	93	6.367	6.365	(0.949)	894512	27.1713	27.17
12 2-Chlorophenol	128	6.435	6.423	(0.959)	474007	12.5958	12.60(R)
13 1,3-Dichlorobenzene	146	6.631	6.628	(0.988)	911630	22.3850	22.38
14 1,4-Dichlorobenzene	146	6.730	6.726	(1.003)	940945	23.2269	23.23
15 Benzyl alcohol	108	6.886	6.883	(1.026)	286870	14.2578	14.26(R)
16 1,2-Dichlorobenzene	146	6.925	6.922	(1.032)	881243	21.9229	21.92

Data File: \\ELABNSH05\TARGET\chem\bna1.i\100511B1.b\1000312S.D
Report Date: 06-Oct-2011 09:45

	Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS ON-COLUMN (ng/ul)	FINAL (ug/L)
	17 2-Methylphenol	108	7.022	7.020	(1.047)	331379	11.6485	11.65(R)
	18 2,2'-Oxybis-1-chloropropane	45	7.062	7.059	(1.052)	1352780	29.5609	29.56
	19 3-Methylphenol	108	7.218	7.225	(1.076)	240053	8.85037	8.850
	20 4-Methylphenol	108	7.218	7.225	(1.076)	240053	8.85037	8.850(R)
	196 3-Methylphenol/4-Methylphenol	108	7.218	7.225	(1.076)	240053	8.85037	8.850
	21 N-Nitroso-di-n-propylamine	70	7.228	7.235	(1.077)	464704	28.8214	28.82
	22 Hexachloroethane	117	7.355	7.352	(1.096)	374717	20.2110	20.21
	32 Benzaldehyde	106	6.152	6.150	(0.917)	632418	30.5541	30.55
*	33 Naphthalene-d8	136	8.349	8.349	(1.000)	2953095	40.0000	
$	34 Nitrobenzene-d5	82	7.423	7.420	(0.889)	717340	31.0035	31.00
	35 Nitrobenzene	77	7.452	7.450	(0.893)	716167	33.4346	33.43
	39 Isophorone	82	7.755	7.762	(0.929)	1257311	29.7159	29.72
	40 2-Nitrophenol	139	7.853	7.850	(0.941)	360689	21.0943	21.09
	42 2,4-Dimethylphenol	107	7.911	7.909	(0.948)	466921	19.5169	19.52(a)
	43 Benzoic acid	105	8.000	8.056	(0.958)	32725	6.05110	6.051(aQM)
	44 bis(2-Chloroethoxy)methane	93	8.039	8.036	(0.963)	1059358	35.2556	35.26
	47 2,4-Dichlorophenol	162	8.165	8.163	(0.978)	367336	15.7003	15.70(R)
	62 2,6-Dichlorophenol	162	8.456	8.447	(1.013)	398463	18.0472	18.05
	50 1,2,4-Trichlorobenzene	180	8.272	8.270	(0.991)	675995	29.2526	29.25
	51 Naphthalene	128	8.378	8.369	(1.003)	2055130	25.3829	25.38
	52 4-Chloroaniline	127	8.446	8.447	(1.012)	404920	12.8741	12.87
	53 Hexachlorobutadiene	225	8.533	8.525	(1.022)	363307	25.1600	25.16
	54 4-Chloro-3-methylphenol	107	9.068	9.062	(1.086)	282147	14.7324	14.73(R)
	55 2-Methylnaphthalene	141	9.252	9.248	(1.108)	1060286	29.2078	29.21
	56 1-Methylnaphthalene	141	9.379	9.373	(1.123)	1237824	35.9938	35.99
	57 Acetophenone	105	7.228	7.225	(1.077)	1061193	25.2938	25.29
	67 1,2,4,5-Tetrachlorobenzene	216	9.466	9.460	(1.134)	664162	32.7902	32.79
	68 Caprolactam	113	8.990	8.916	(1.077)	59509	7.14257	7.142(QR)
*	69 Acenaphthene-d10	164	10.560	10.554	(1.000)	1168658	40.0000	
	70 Hexachlorocyclopentadiene	237	9.447	9.450	(0.895)	200325	19.4517	19.45
	71 2,4,6-Trichlorophenol	196	9.658	9.654	(0.915)	247479	20.7910	20.79(R)
	72 2,4,5-Trichlorophenol	196	9.658	9.654	(0.915)	247479	20.5890	20.59(R)
	73 2-Chloronaphthalene	162	9.870	9.869	(0.935)	1249346	34.1349	34.13
$	74 2-Fluorobiphenyl	172	9.716	9.713	(0.920)	930939	23.8749	23.87(R)
	75 2-Nitroaniline	65	9.995	9.995	(0.946)	249213	30.6321	30.63
	76 Dimethylphthalate	163	10.226	10.231	(0.968)	1408476	34.2461	34.25
	77 Acenaphthylene	152	10.379	10.378	(0.983)	1678020	31.6663	31.67
	78 2,6-Dinitrotoluene	165	10.302	10.299	(0.976)	331678	29.6120	29.61
	79 3-Nitroaniline	138	10.513	10.505	(0.996)	165143	12.3231	12.32(a)
	80 Acenaphthene	153	10.598	10.594	(1.004)	1175303	32.9720	32.97
	81 2,4-Dinitrophenol	184	10.636	10.633	(1.007)	28933	7.75578	7.756(aM)
	83 4-Nitrophenol	65	10.720	10.701	(1.015)	20873	4.52708	4.527(aQM)
	84 Dibenzofuran	168	10.814	10.809	(1.024)	1600265	35.4149	35.41
	85 2,4-Dinitrotoluene	165	10.804	10.799	(1.023)	403097	29.6521	29.65
	86 Diethylphthalate	149	11.102	11.102	(1.051)	1149477	26.8696	26.87
	87 4-Chlorophenyl-phenylether	204	11.240	11.229	(1.064)	532155	35.5176	35.52
	88 Fluorene	166	11.240	11.229	(1.064)	1057963	30.8533	30.85

Data File: \\ELABNSH05\TARGET\chem\bna1.i\100511B1.b\1000312S.D
Report Date: 06-Oct-2011 09:45

Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS ON-COLUMN (ng/ul)	FINAL (ug/L)
89 4-Nitroaniline	138	11.259	11.297	(1.066)	175938	13.8602	13.86(aQRM)
96 2,3,4,6-Tetrachlorophenol	232	10.963	10.956	(1.038)	140828	14.2563	14.26(RM)
100 1,1'-Biphenyl	154	9.841	9.840	(0.932)	1543377	35.5738	35.57
* 102 Phenanthrene-d10	188	12.389	12.385	(1.000)	1427186	40.0000	
103 1,2-Diphenylhydrazine	77	11.435	11.423	(0.923)	958494	35.7203	35.72
104 Carbazole	167	12.686	12.678	(1.024)	1171635	31.3369	31.34
105 4,6-Dinitro-2-methylphenol	198	11.296	11.297	(0.912)	63246	11.8816	11.88(aRM)
106 N-Nitrosodiphenylamine	169	11.388	11.384	(0.919)	628785	27.4348	27.43
$ 107 2,4,6-Tribromophenol	330	11.537	11.530	(0.931)	185899	34.0929	34.09(R)
108 4-Bromophenyl-phenylether	248	11.842	11.831	(0.956)	359498	46.0296	46.03
109 Hexachlorobenzene	284	11.907	11.899	(0.961)	347462	37.7199	37.72
110 Pentachlorophenol	266	12.158	12.143	(0.981)	94951	14.2438	14.24(aRM)
111 Phenanthrene	178	12.417	12.415	(1.002)	1344014	35.5422	35.54
112 Anthracene	178	12.482	12.483	(1.007)	1267466	33.4908	33.49
115 Di-n-butylphthalate	149	13.141	13.136	(1.061)	1814206	33.0682	33.07
116 Fluoranthene	202	14.033	14.033	(1.133)	1096361	30.3753	30.38
129 Atrazine	200	12.074	12.036	(0.975)	192687	26.7820	26.78(R)
* 132 Chrysene-d12	240	16.481	16.479	(1.000)	699708	40.0000	
134 Pyrene	202	14.387	14.375	(0.873)	1115857	43.9057	43.90
$ 135 Terphenyl-d14	244	14.638	14.628	(0.888)	176748	12.4879	12.49(R)
136 Butylbenzylphthalate	149	15.485	15.487	(0.940)	597825	34.8692	34.87
137 3,3'-Dichlorobenzidine	252	16.425	16.433	(0.997)	5731	0.89573	0.8957(aQRM)
138 Benzo(a)anthracene	228	16.462	16.525	(0.999)	734272	34.6557	34.66(H)
139 Chrysene	228	16.527	16.525	(1.003)	682244	33.3607	33.36
140 Bis(2-ethylhexyl)phthalate	149	16.583	16.583	(1.006)	833714	34.9846	34.98
* 154 Perylene-d12	264	19.192	19.191	(1.000)	449787	40.0000	
155 Di-n-octylphthalate	149	17.856	17.863	(0.930)	1261541	42.4164	42.42
156 Benzo(b)fluoranthene	252	18.487	18.489	(0.963)	516311	38.3538	38.35
157 Benzo(k)fluoranthene	252	18.543	18.548	(0.966)	510584	37.2445	37.24
158 Benzo(a)pyrene	252	19.081	19.085	(0.994)	419718	34.5110	34.51
159 Indeno(1,2,3-cd)pyrene	276	21.313	21.317	(1.111)	322936	36.9166	36.92
160 Dibenz(a,h)anthracene	278	21.378	21.374	(1.114)	302981	34.5634	34.56
161 Benzo(g,h,i)perylene	276	21.919	21.929	(1.142)	312518	34.3697	34.37

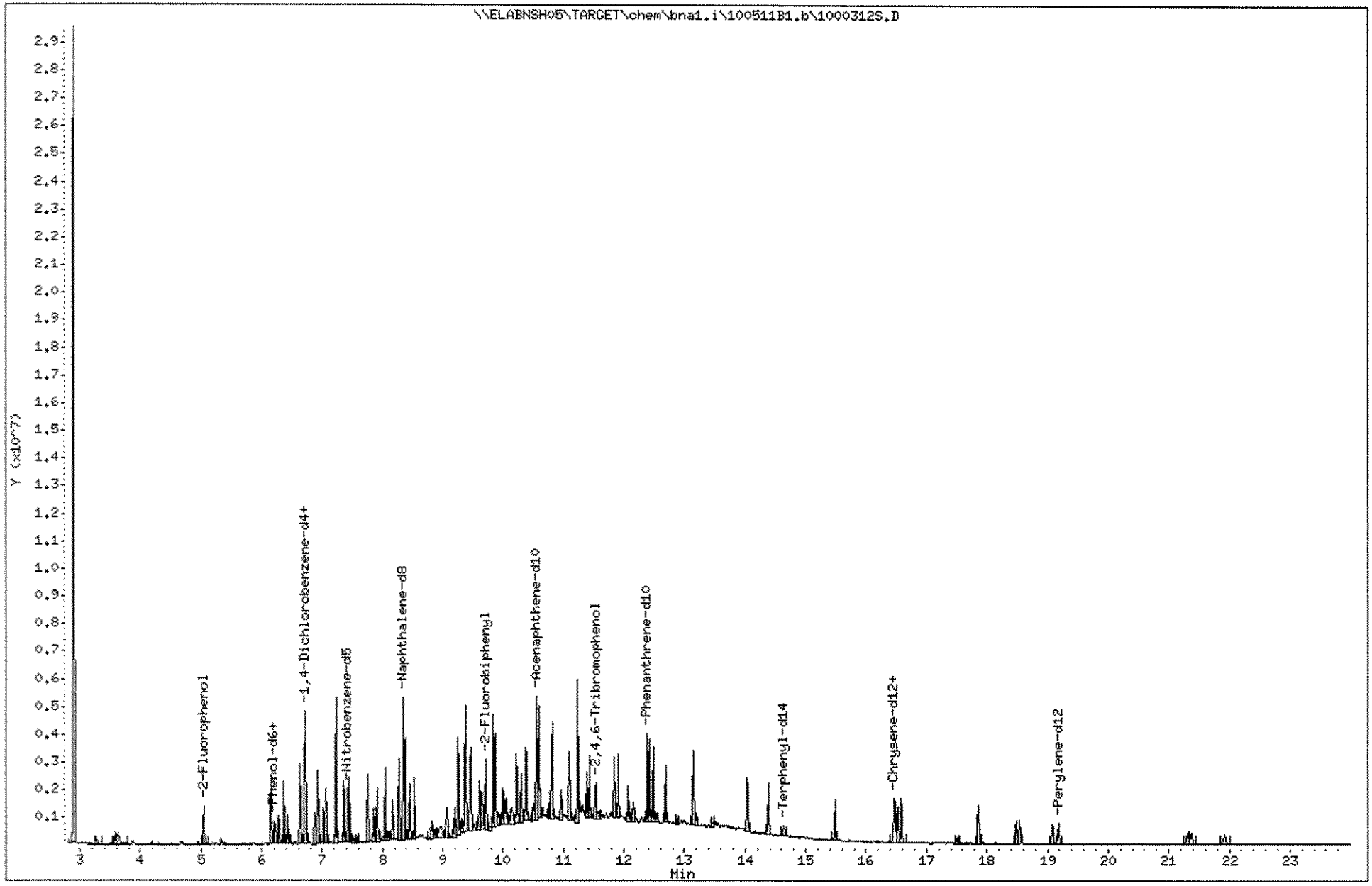
QC Flag Legend

a - Target compound detected but, quantitated amount
    Below Limit Of Quantitation(BLOQ).
Q - Qualifier signal failed the ratio test.
R - Spike/Surrogate failed recovery limits.
M - Compound response manually integrated.
H - Operator selected an alternate compound hit.

Data File: \\ELABNSH05\TARGET\chem\bna1.i\100511B1.b\1000312S.D
Date : 05-OCT-2011 18:09
Client ID: 1J03003-MSD1
Sample Info: 1J03003-MSD1;;1000;1000;UG/L;;03-OCT-2011
Volume Injected (uL): 0.5
Column phase: fused silica

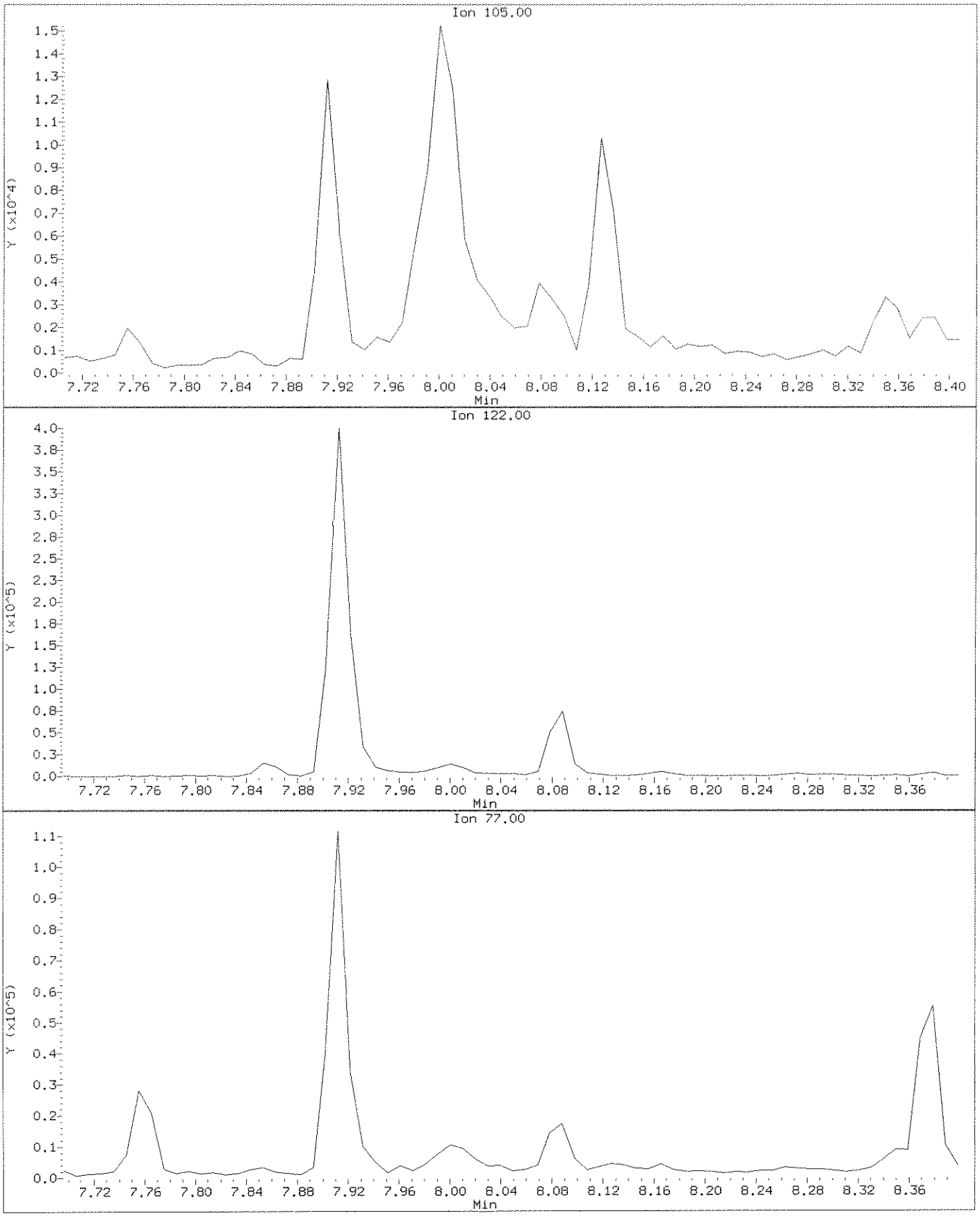
Instrument: bna1.i

Operator: MEC
Column diameter: 0.25



Data File: \\ELABNSHOS\TARGET\chem\bna1.i\100511B1.b\10003125.D
Injection Date: 05-OCT-2011 18:09
Instrument: bna1.i
Client Sample ID: 1J03003-MSD1

Compound: Benzoic acid
CAS Number: 65-85-0



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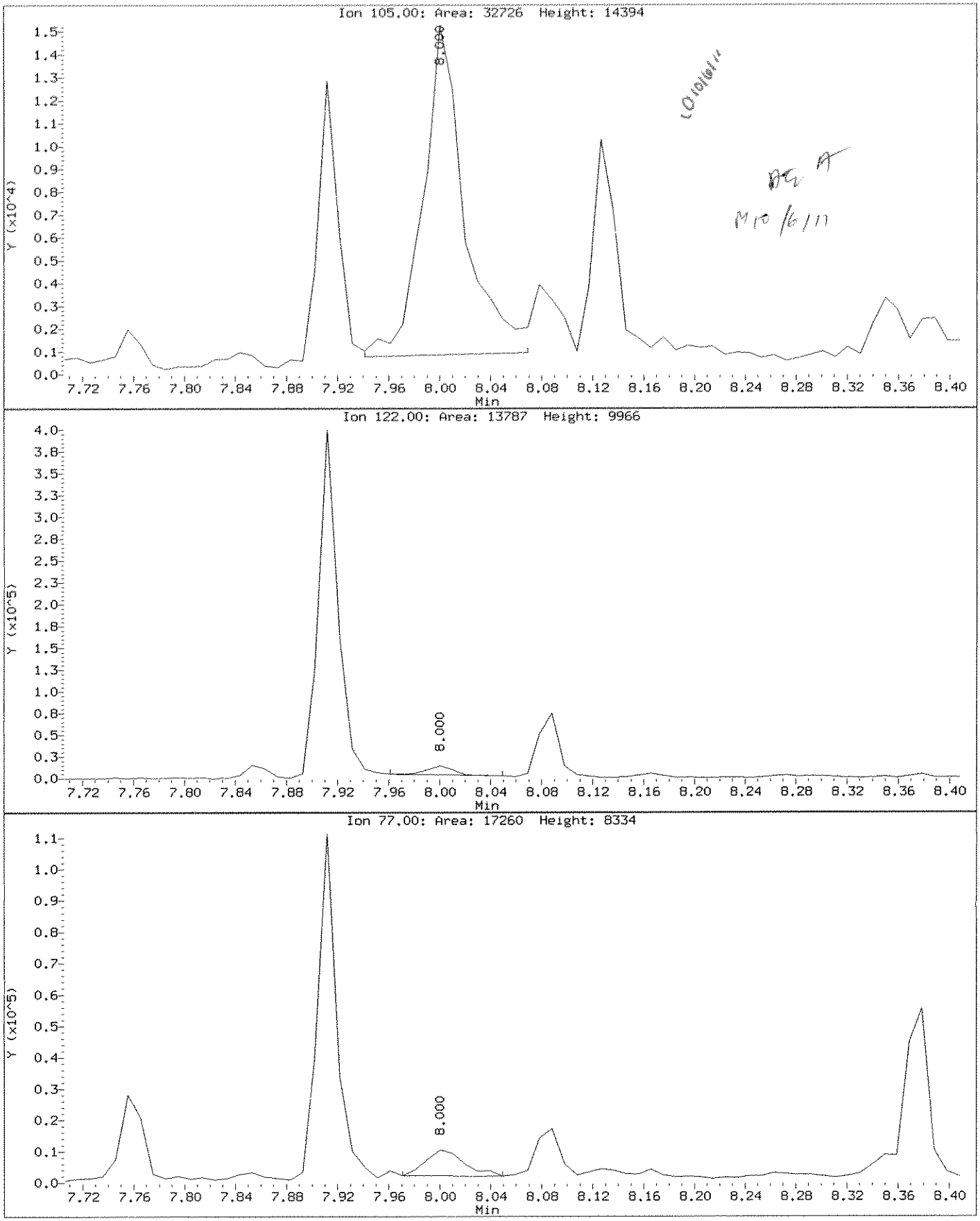
Injection Date: 05-OCT-2011 18:09
Instrument: bna1.i
Client Sample ID: 1J03003-MSD1

Compound: Benzoic acid
CAS Number: 65-85-0



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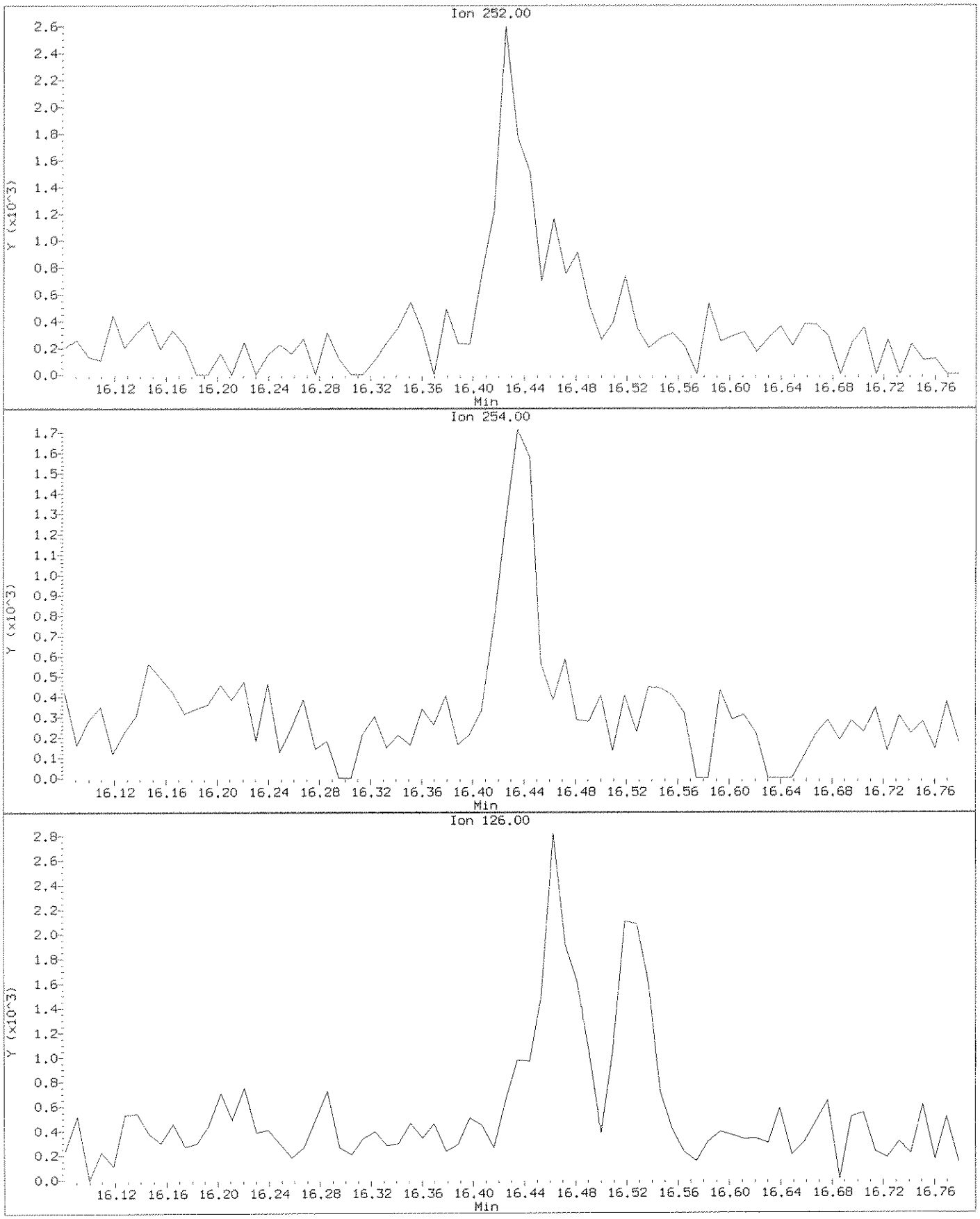
Injection Date: 05-OCT-2011 18:09
Instrument: bna1.i
Client Sample ID: 1J03003-MSD1

Compound: 3,3'-Dichlorobenzidine
CAS Number: 91-94-1



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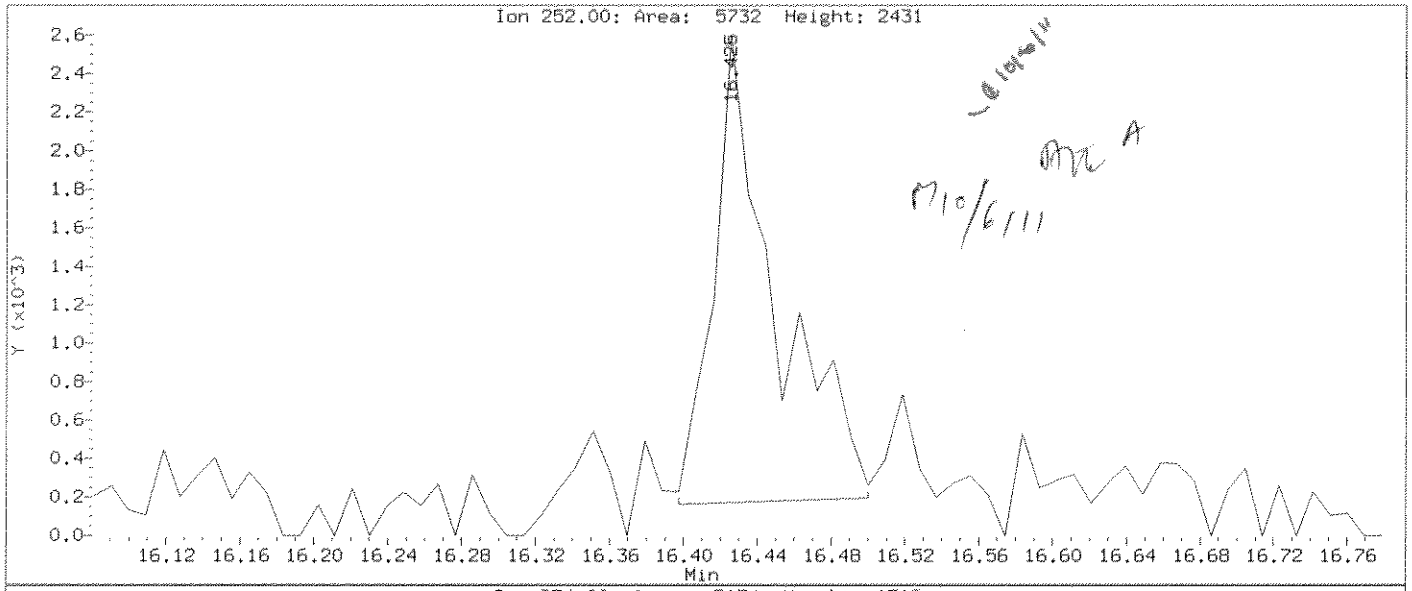
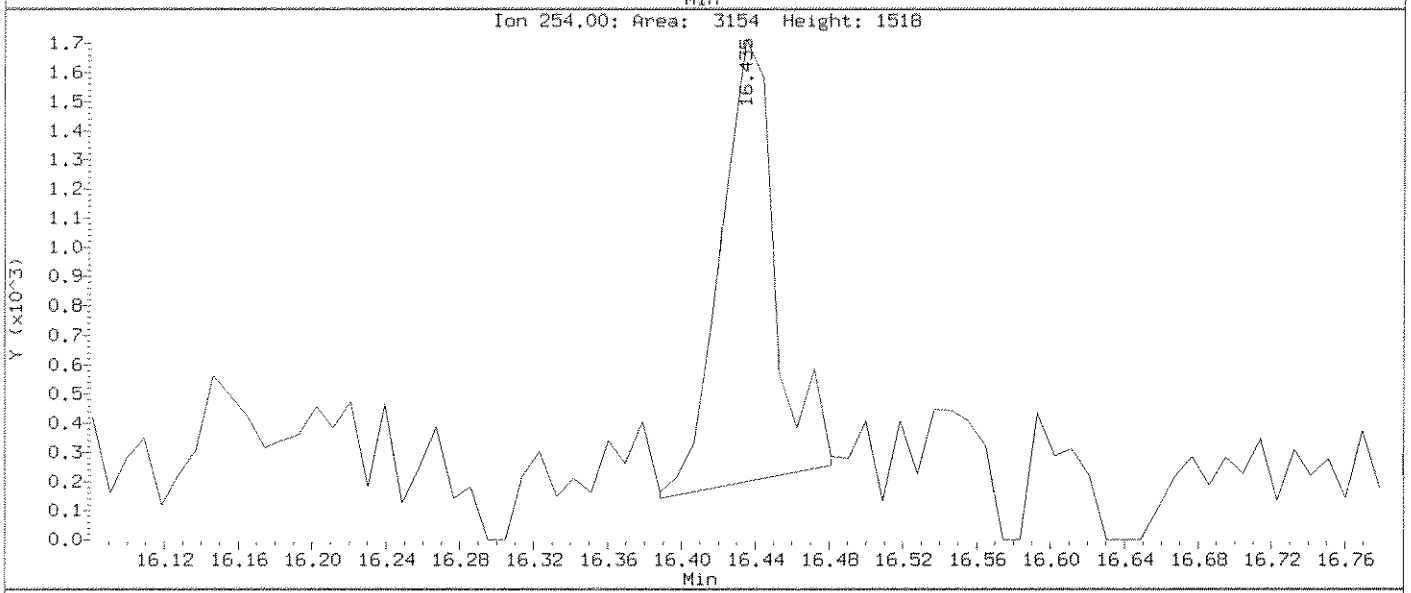
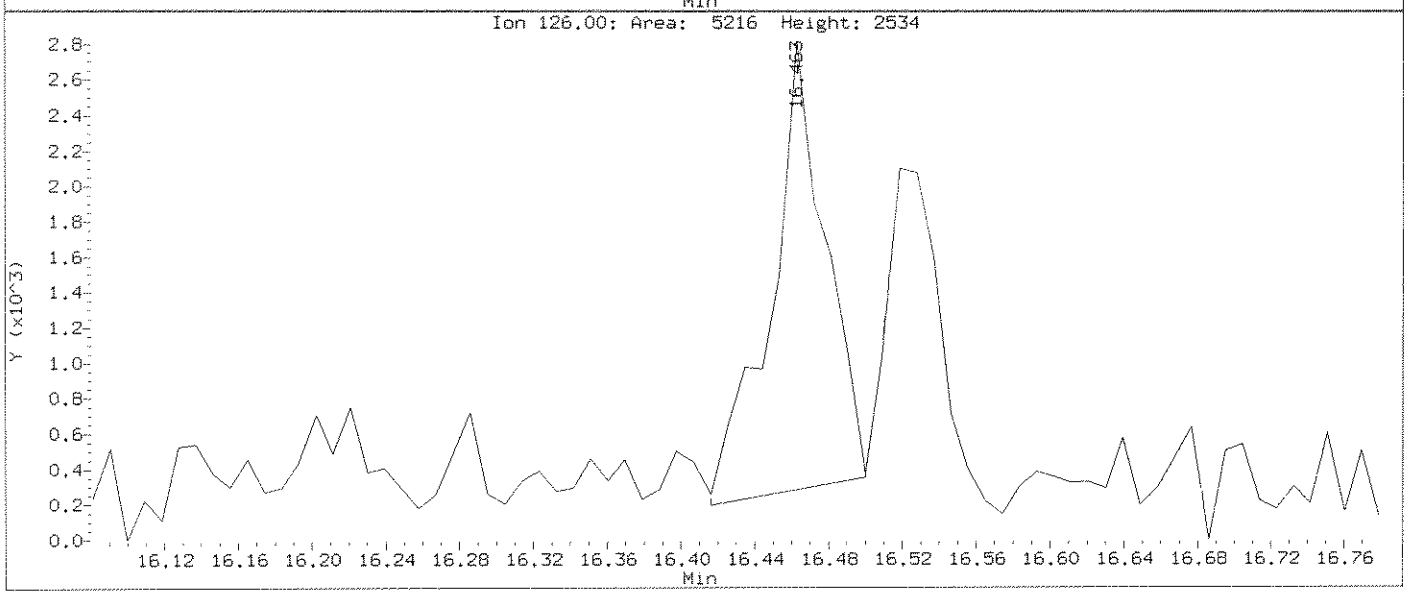
Instrument: bna1.i
Client Sample ID: 1J03003-MSD1

Compound: 3,3'-Dichlorobenzidine
CAS Number: 91-94-1







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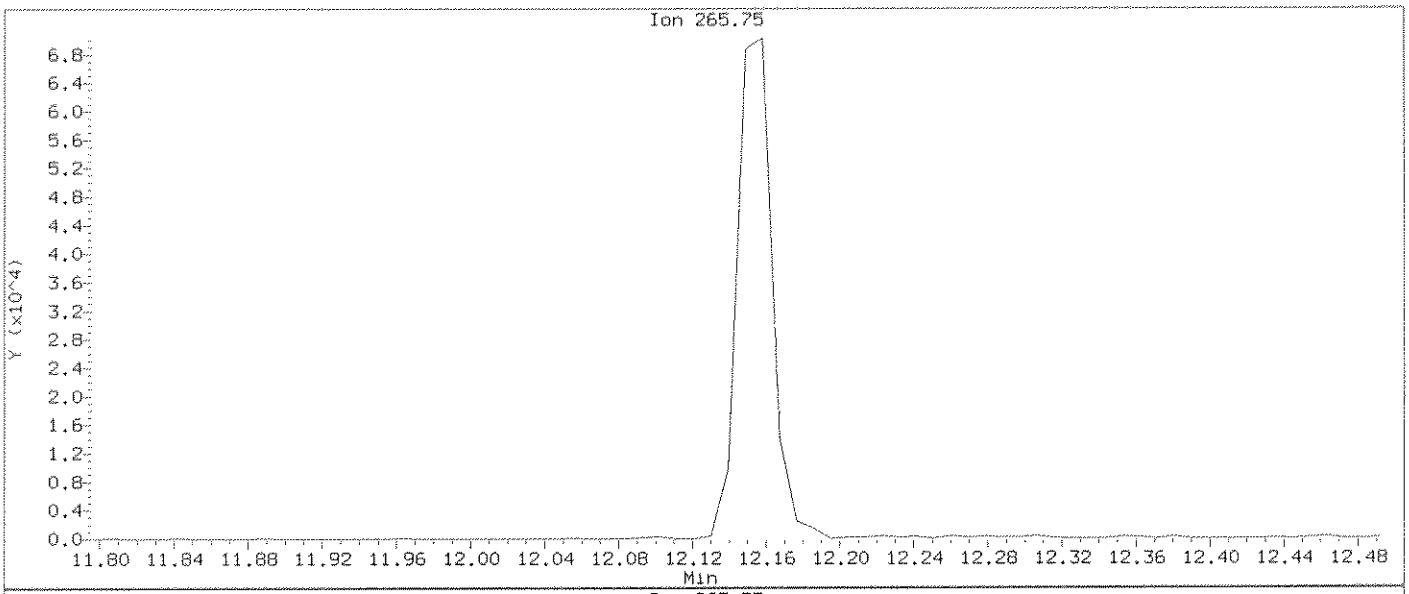
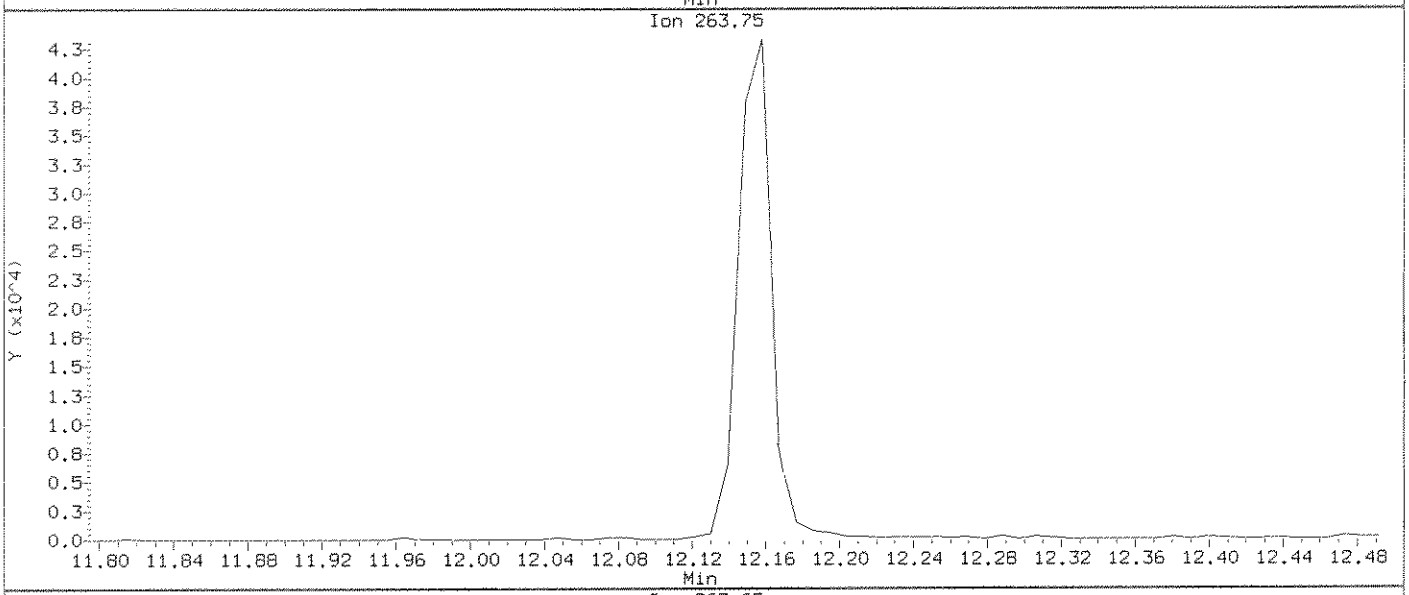
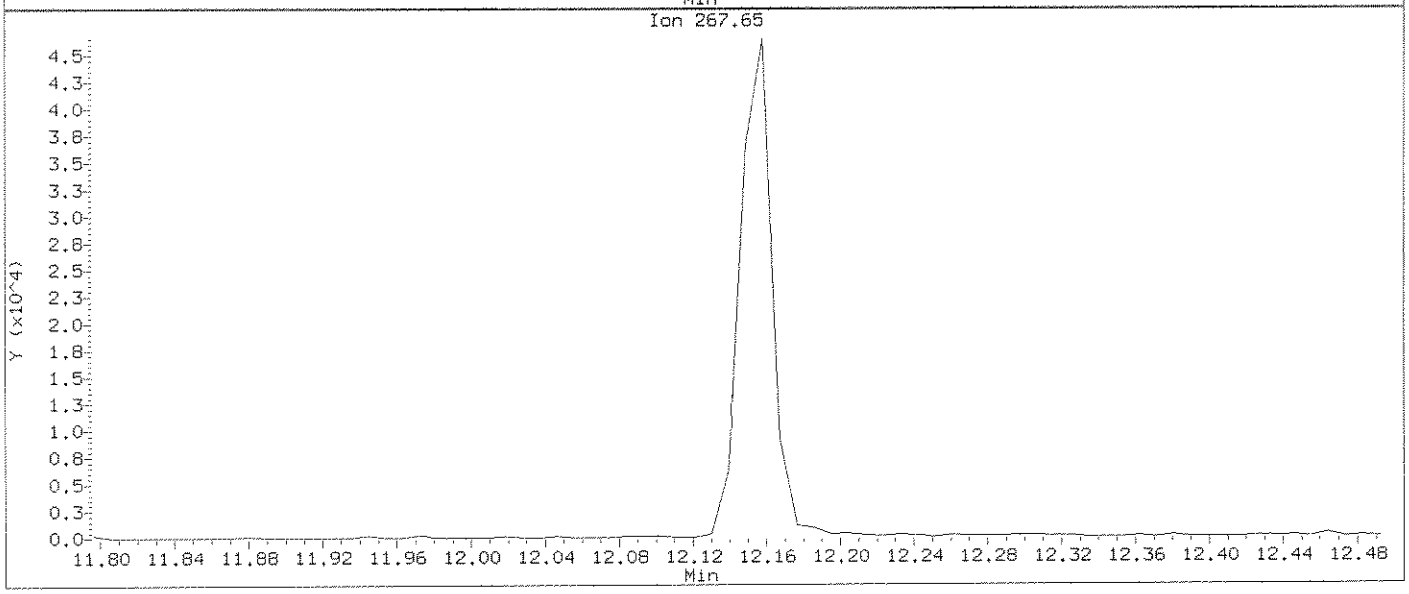
Injection Date: 05-OCT-2011 18:09
Instrument: bna1.i
Client Sample ID: 1J03003-MSD1

Compound: Pentachlorophenol
CAS Number: 87-86-5







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Injection Date: 05-OCT-2011 18:09
Instrument: bna1.i
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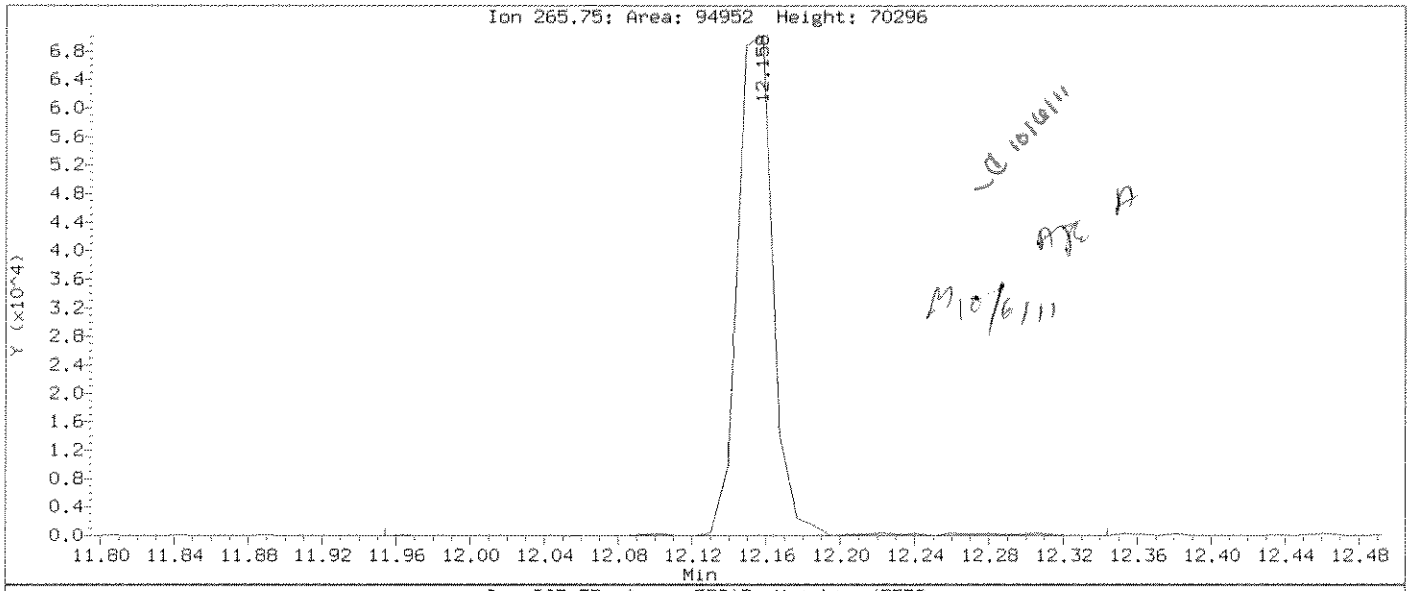
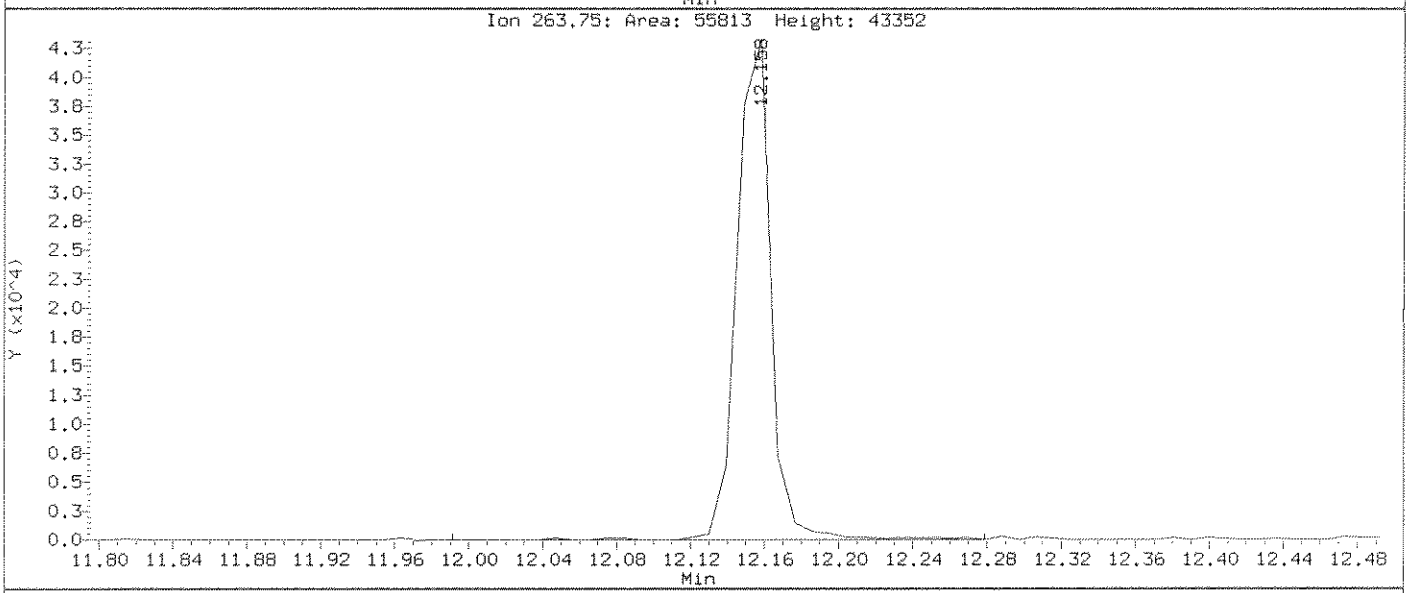
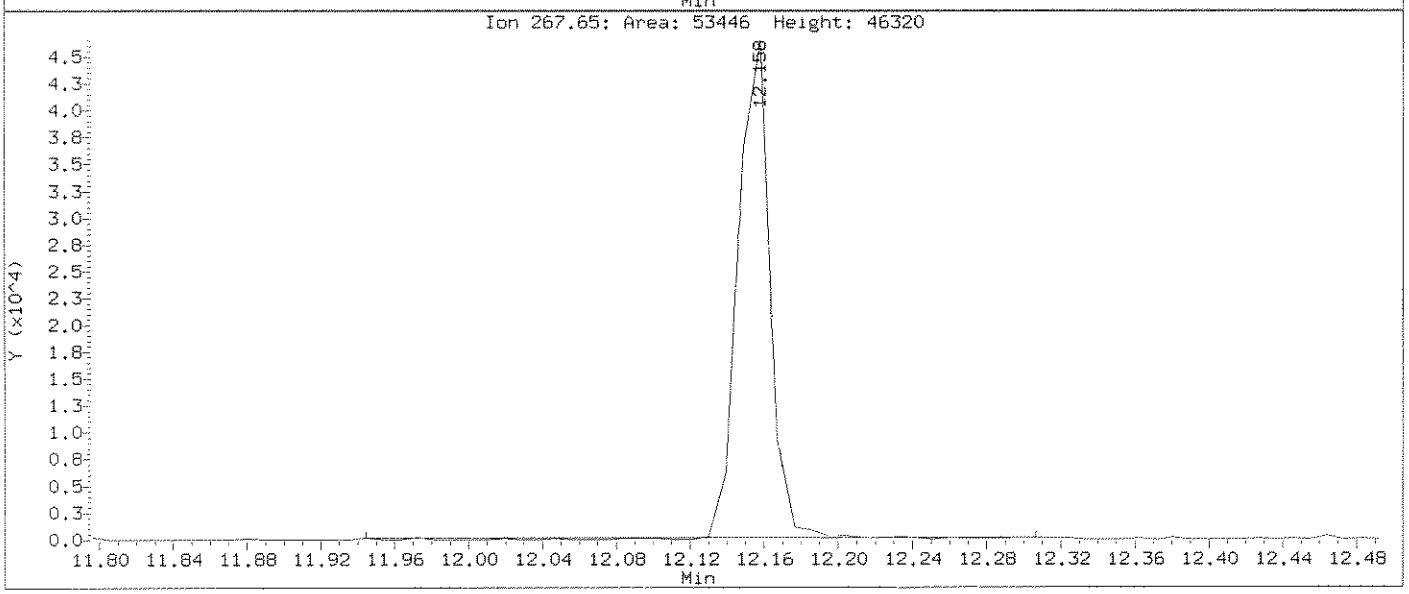
Compound: Pentachlorophenol
CAS Number: 87-86-5







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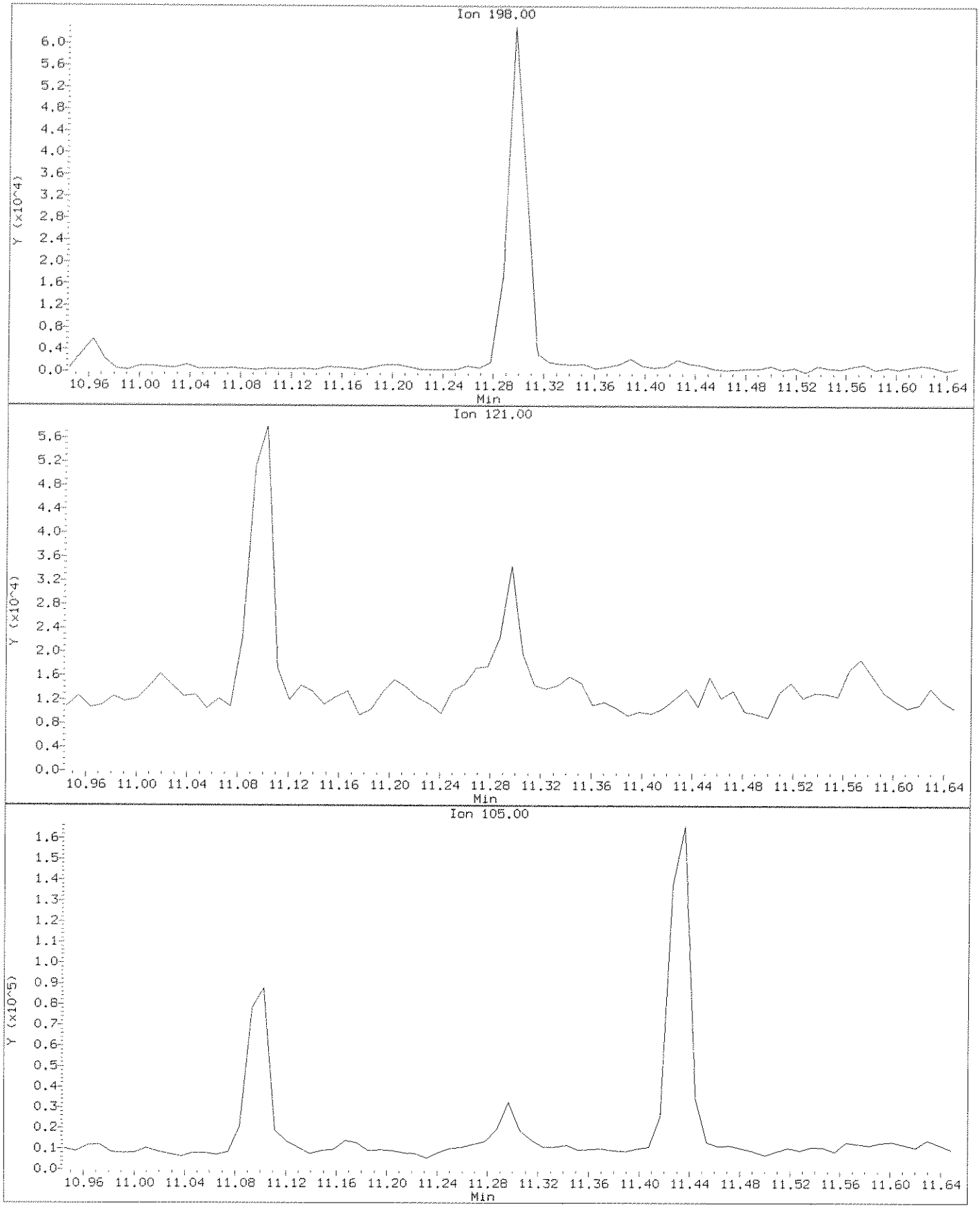
Injection Date: 05-OCT-2011 18:09
Instrument: bna1.i
Client Sample ID: 1J03003-MSD1

Compound: 4,6-Dinitro-2-methylphenol
CAS Number: 534-52-1



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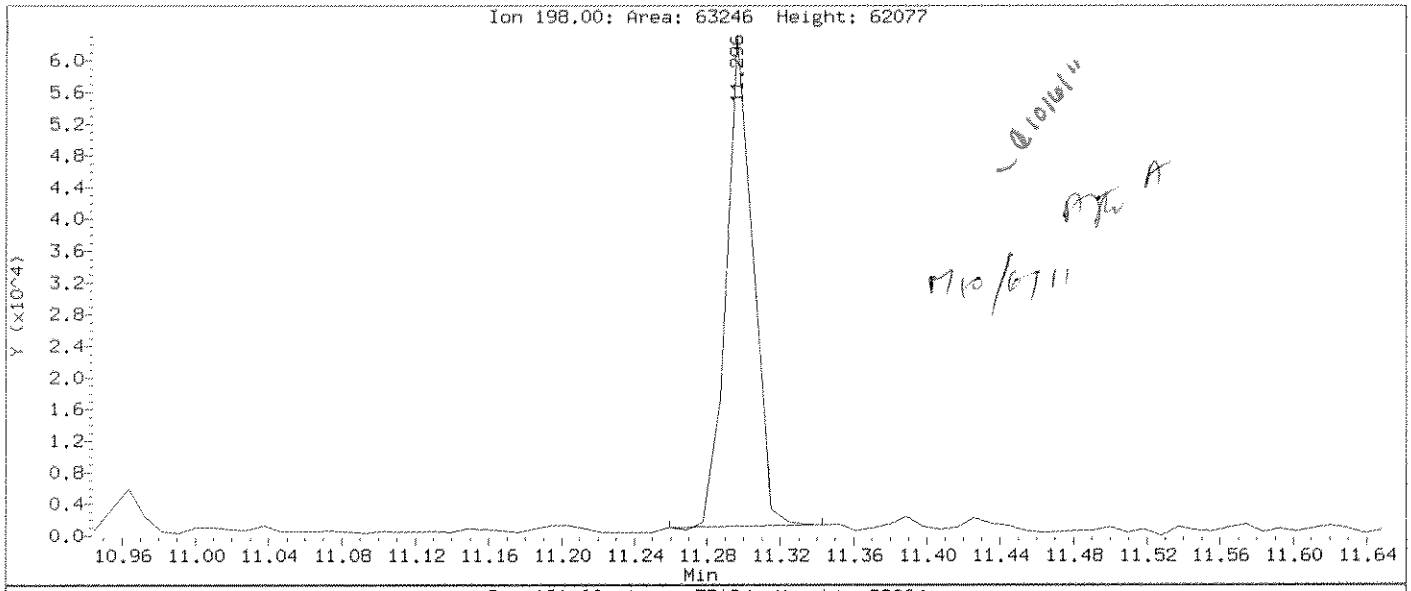
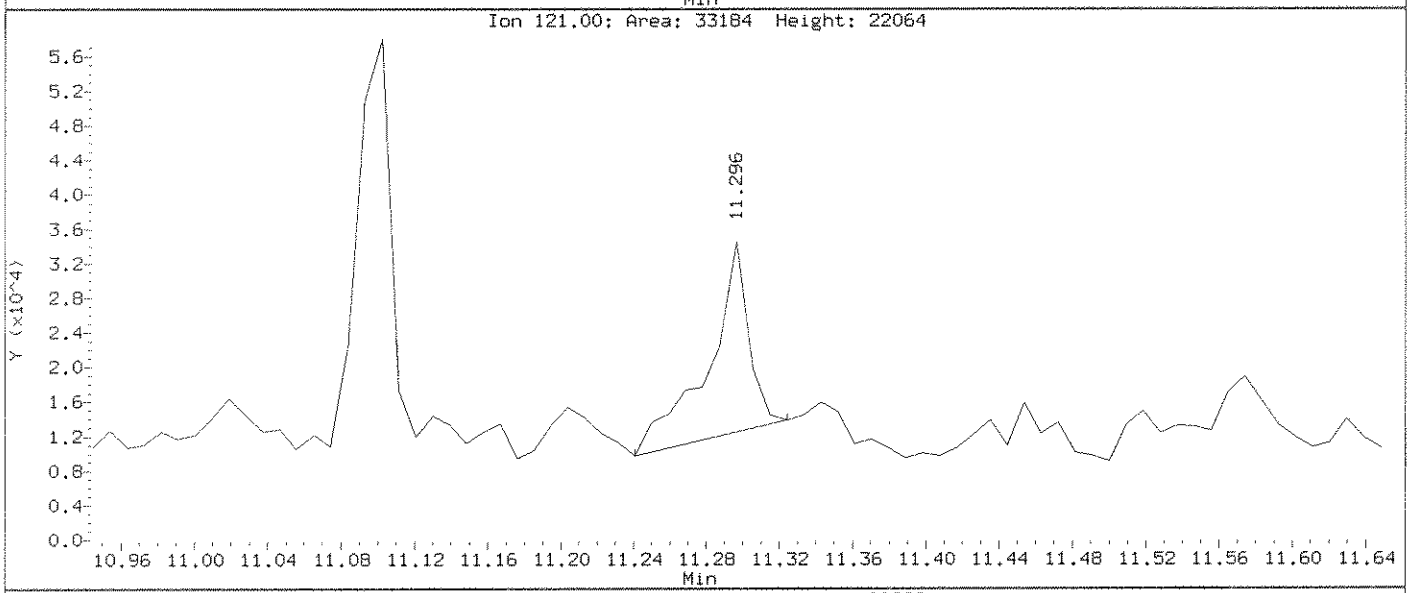
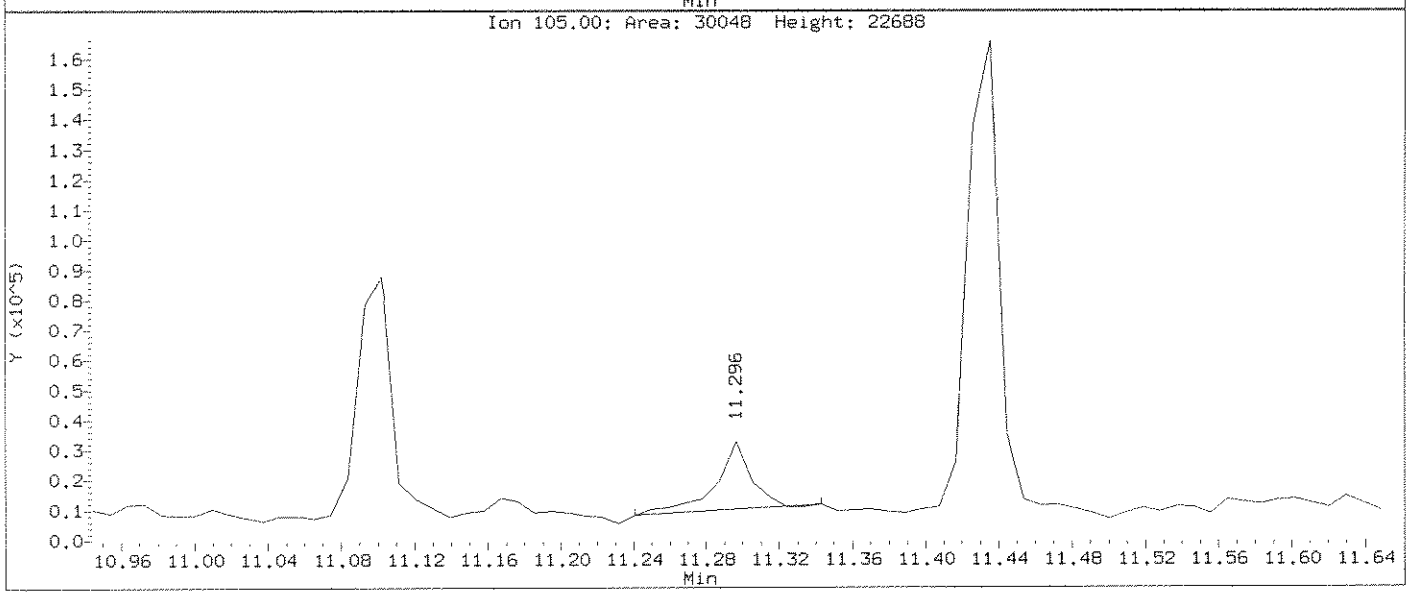
Injection Date: 05-OCT-2011 18:09
Instrument: bna1.i
Client Sample ID: 1J03003-MSD1

Compound: 4,6-Dinitro-2-methylphenol
CAS Number: 534-52-1







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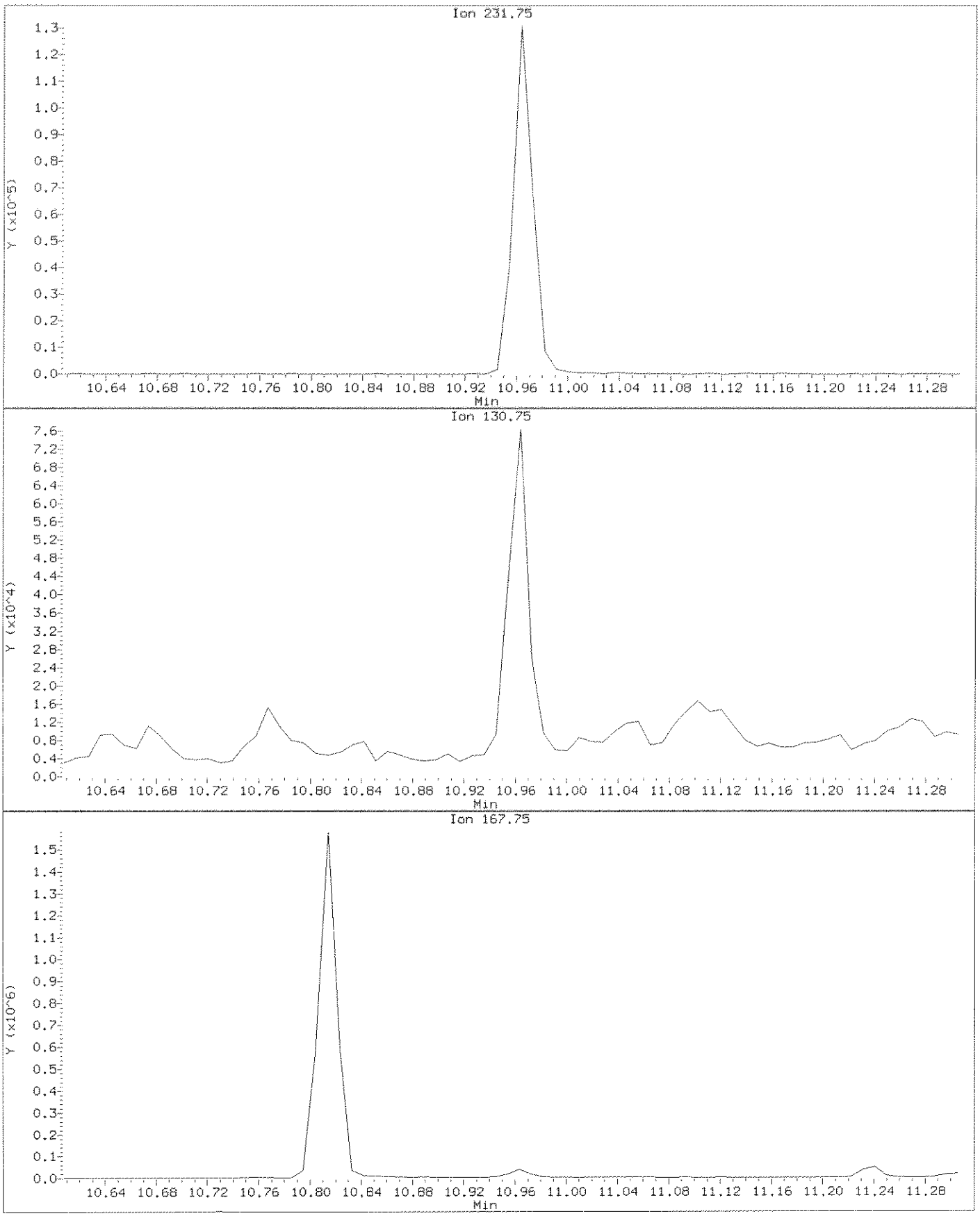
Injection Date: 05-OCT-2011 18:09
Instrument: bna1.i
Client Sample ID: 1J03003-MSD1

Compound: 2,3,4,6-Tetrachlorophenol
CAS Number: 58-90-2



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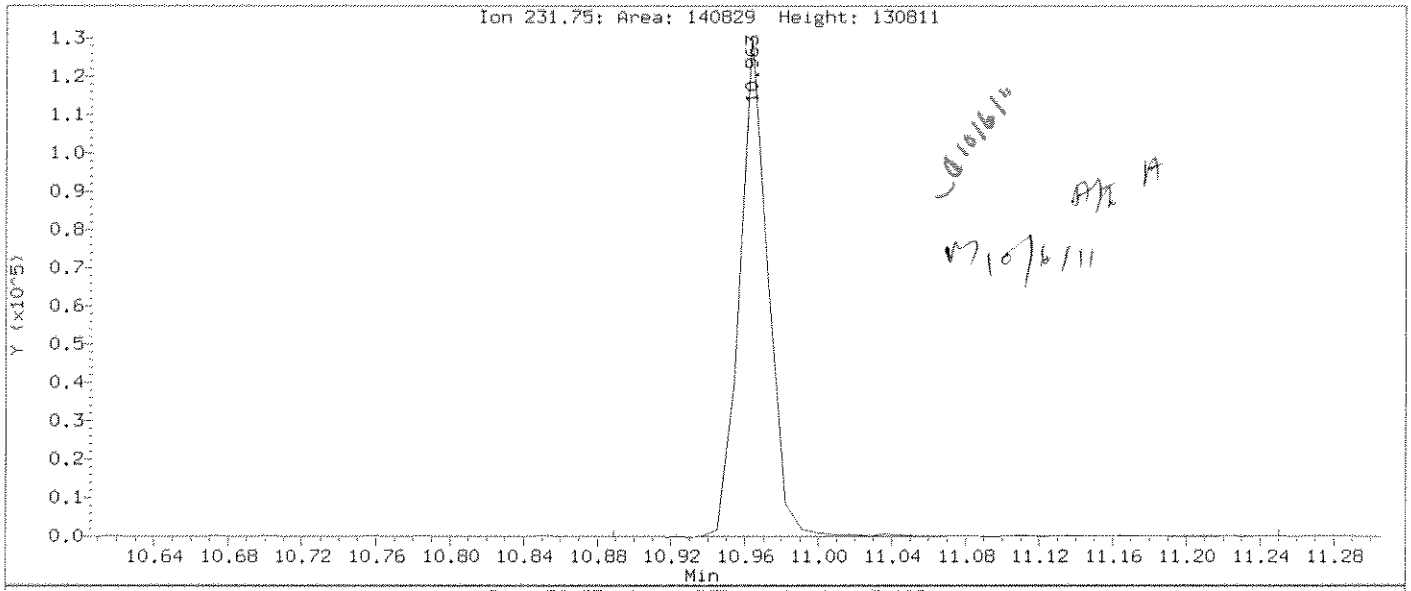
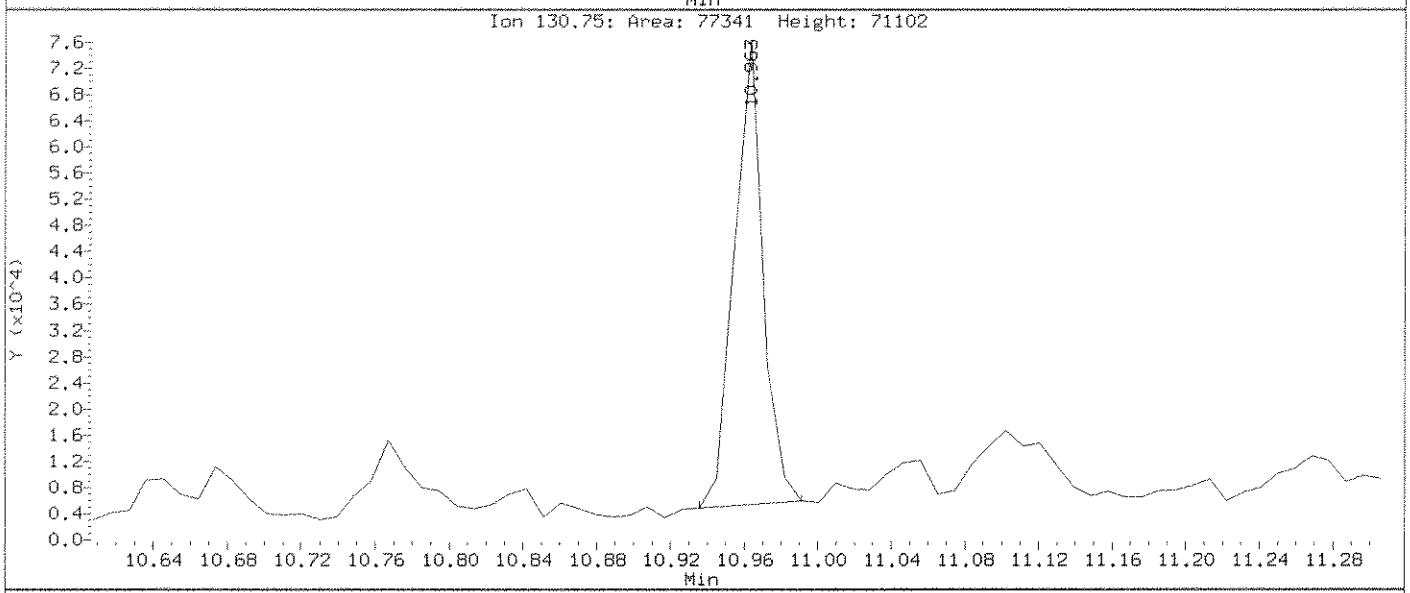
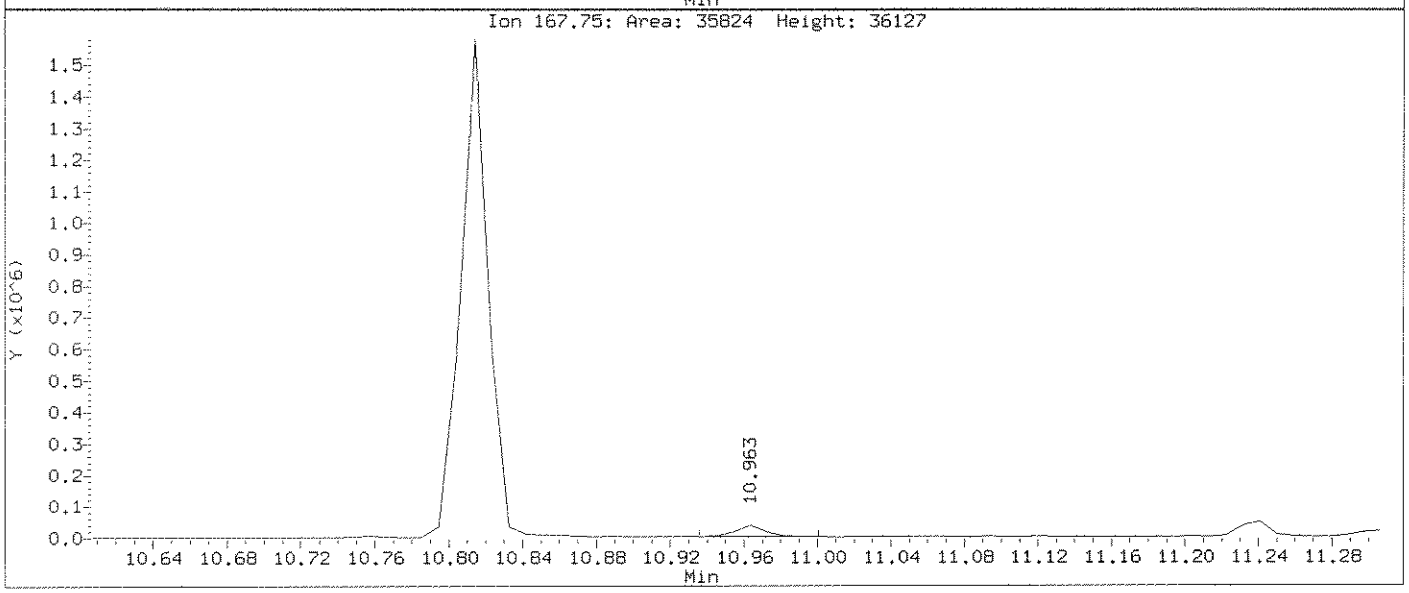
Injection Date: 05-OCT-2011 18:09
Instrument: bna1.i
Client Sample ID: 1J03003-MSD1

Compound: 2,3,4,6-Tetrachlorophenol
CAS Number: 58-90-2







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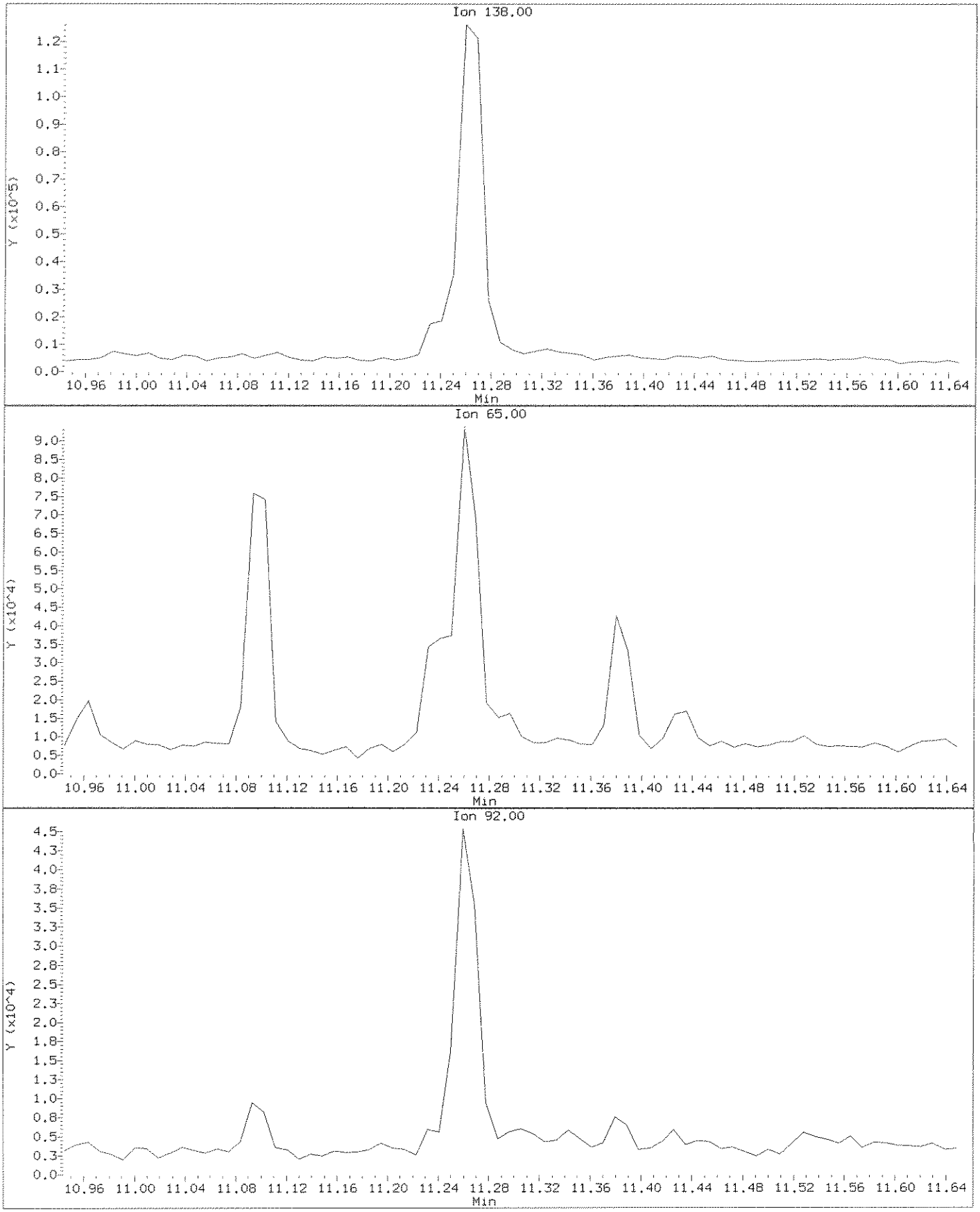
Injection Date: 05-OCT-2011 18:09
Instrument: bna1.i
Client Sample ID: 1J03003-MSD1

Compound: 4-Nitroaniline
CAS Number: 100-01-6



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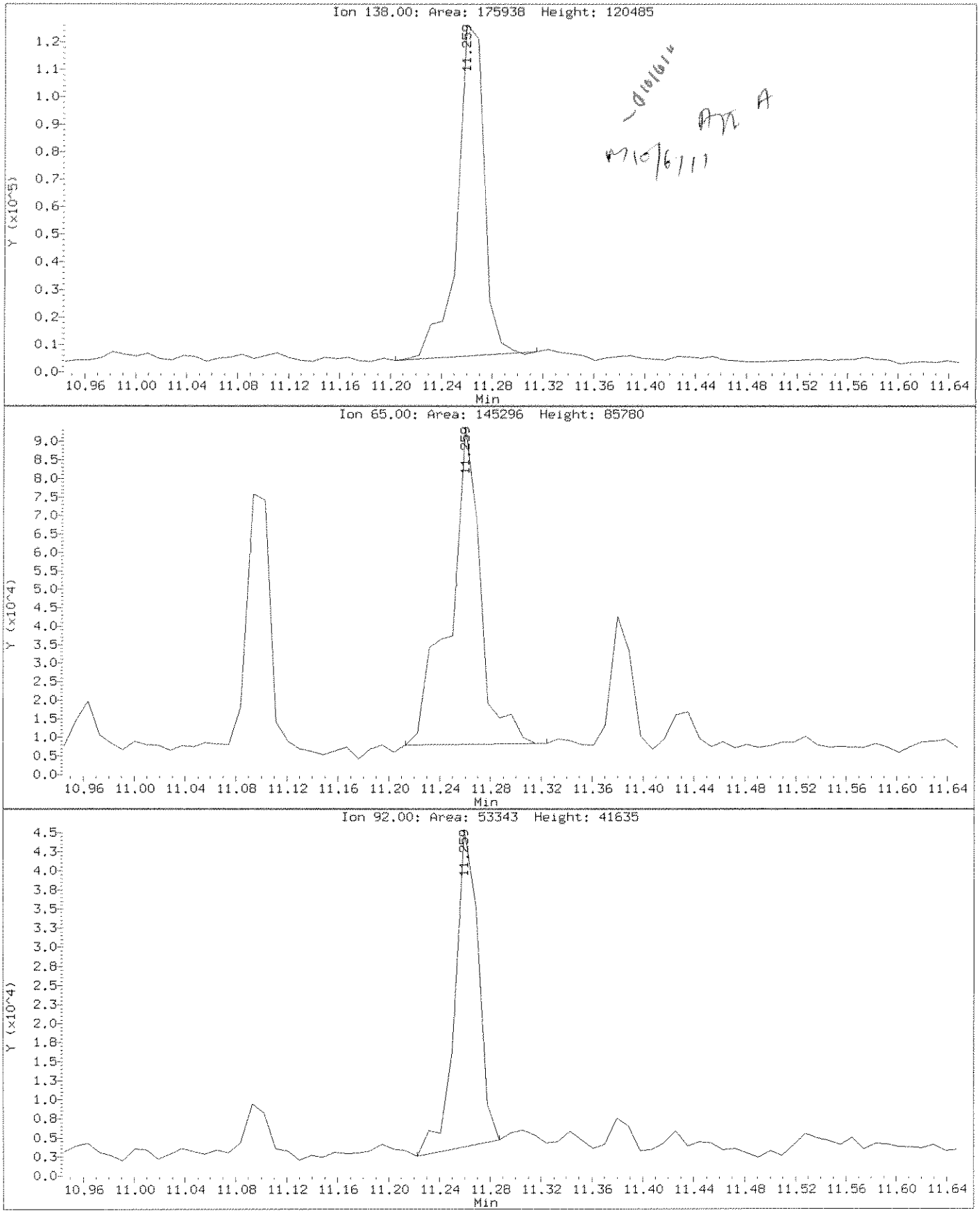
Injection Date: 05-OCT-2011 18:09
Instrument: bna1.i
Client Sample ID: 1J03003-MSD1

Compound: 4-Nitroaniline
CAS Number: 100-01-6



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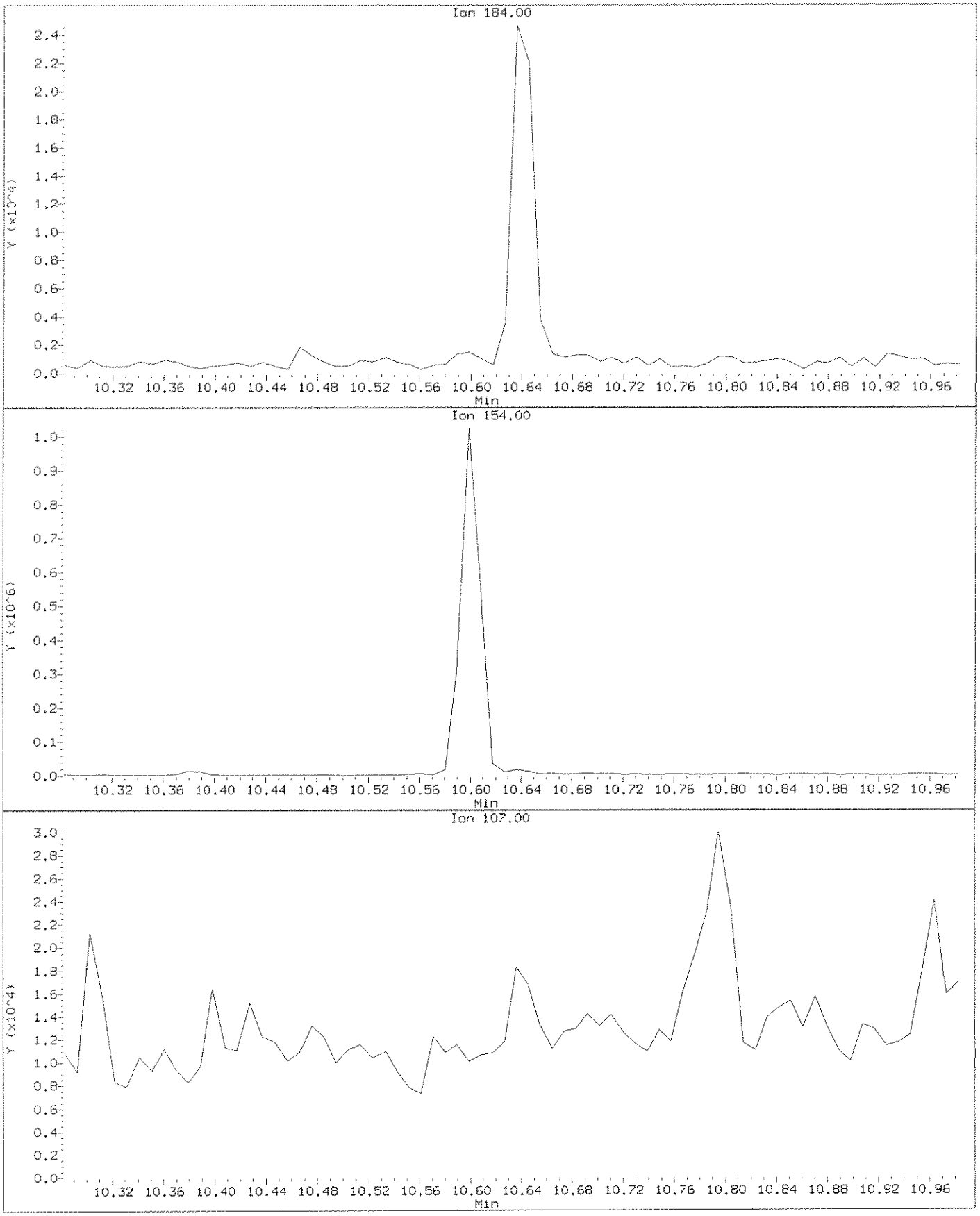
Injection Date: 05-OCT-2011 18:09
Instrument: bna1.i
Client Sample ID: 1J03003-MSD1

Compound: 2,4-Dinitrophenol
CAS Number: 51-28-5



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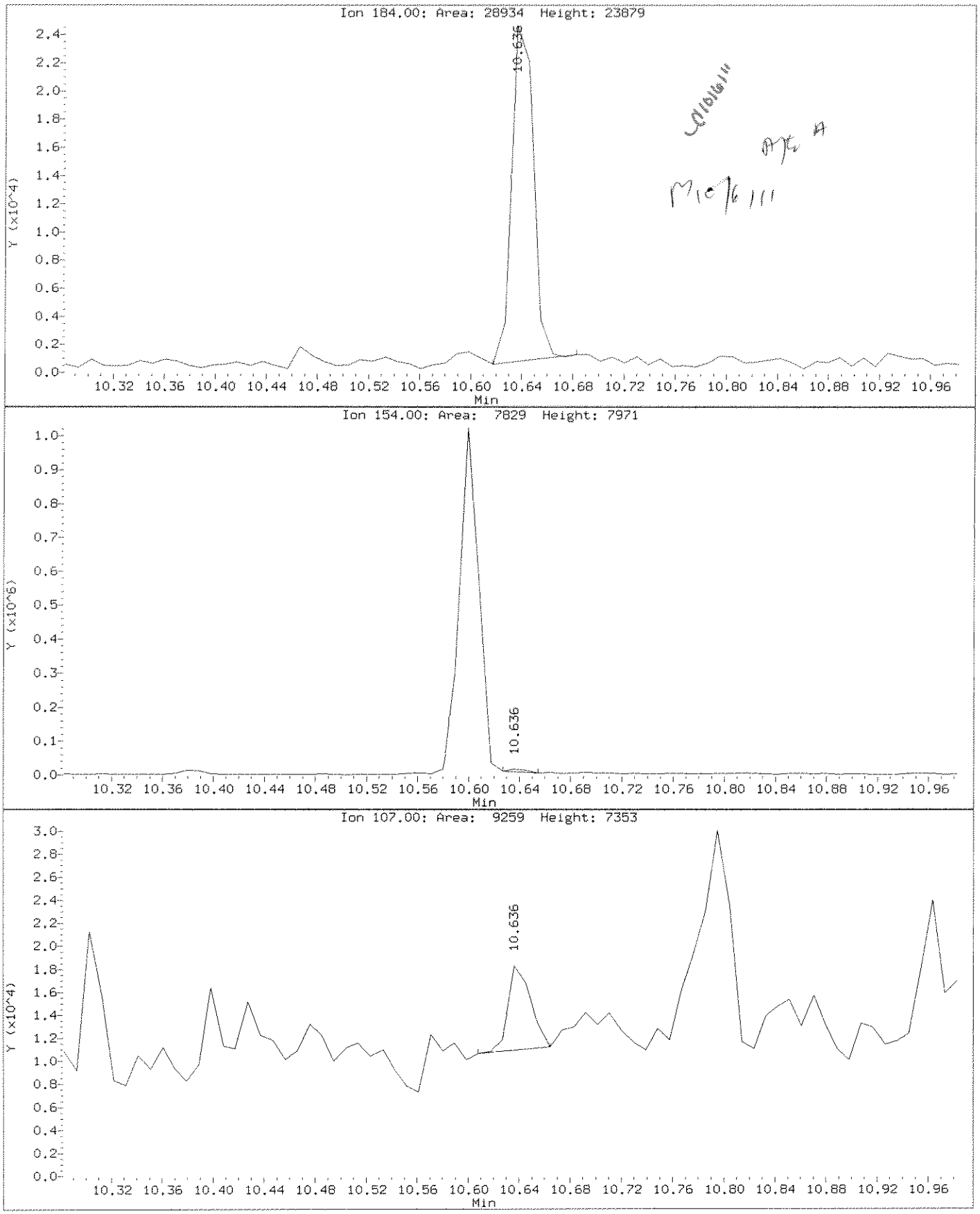
Instrument: bna1.i
Client Sample ID: 1J03003-MSD1

Compound: 2,4-Dinitrophenol
CAS Number: 51-28-5



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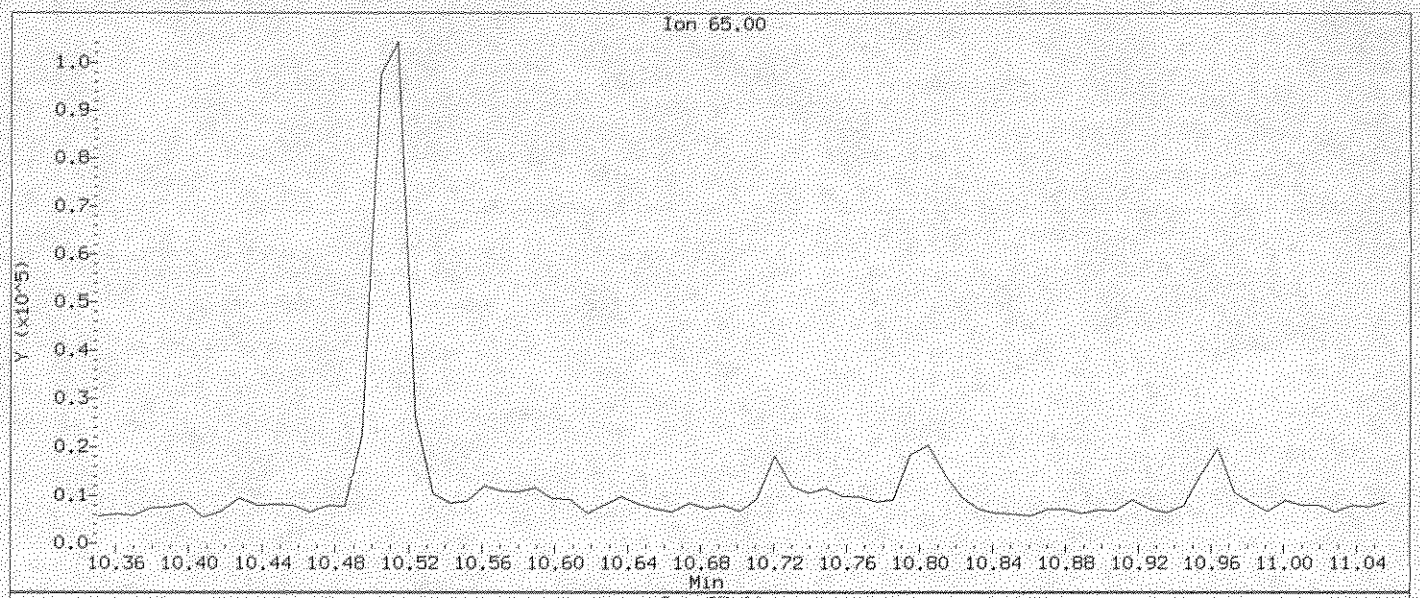
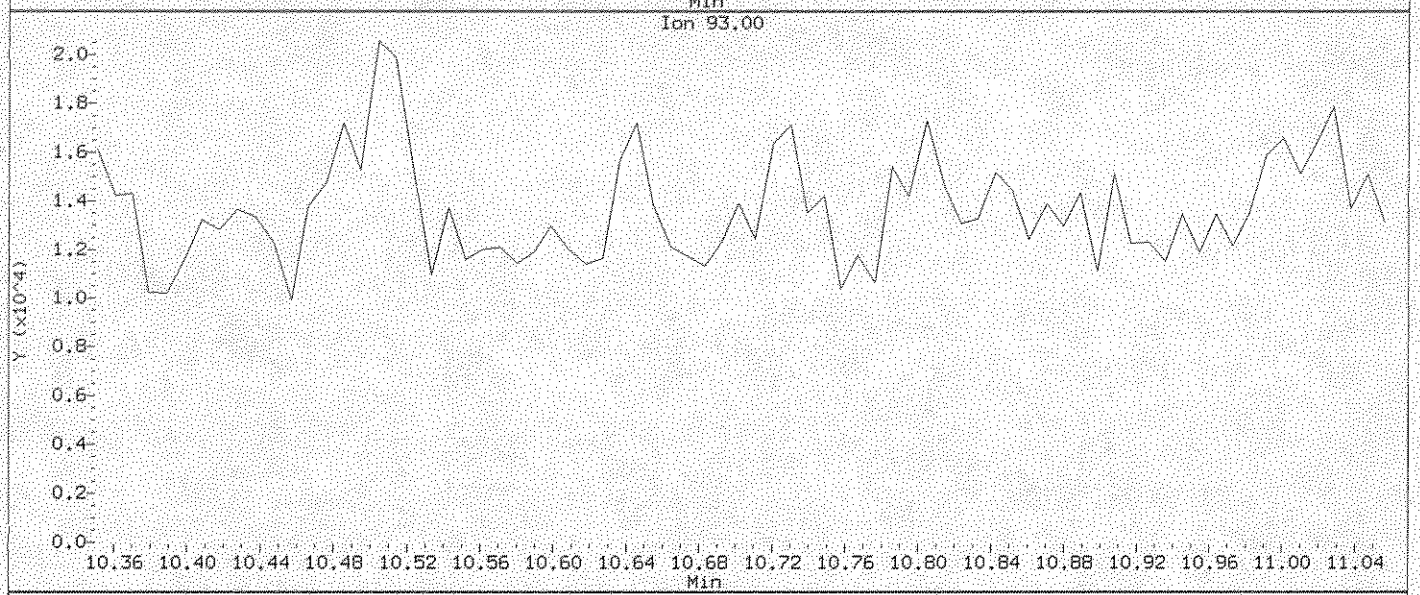
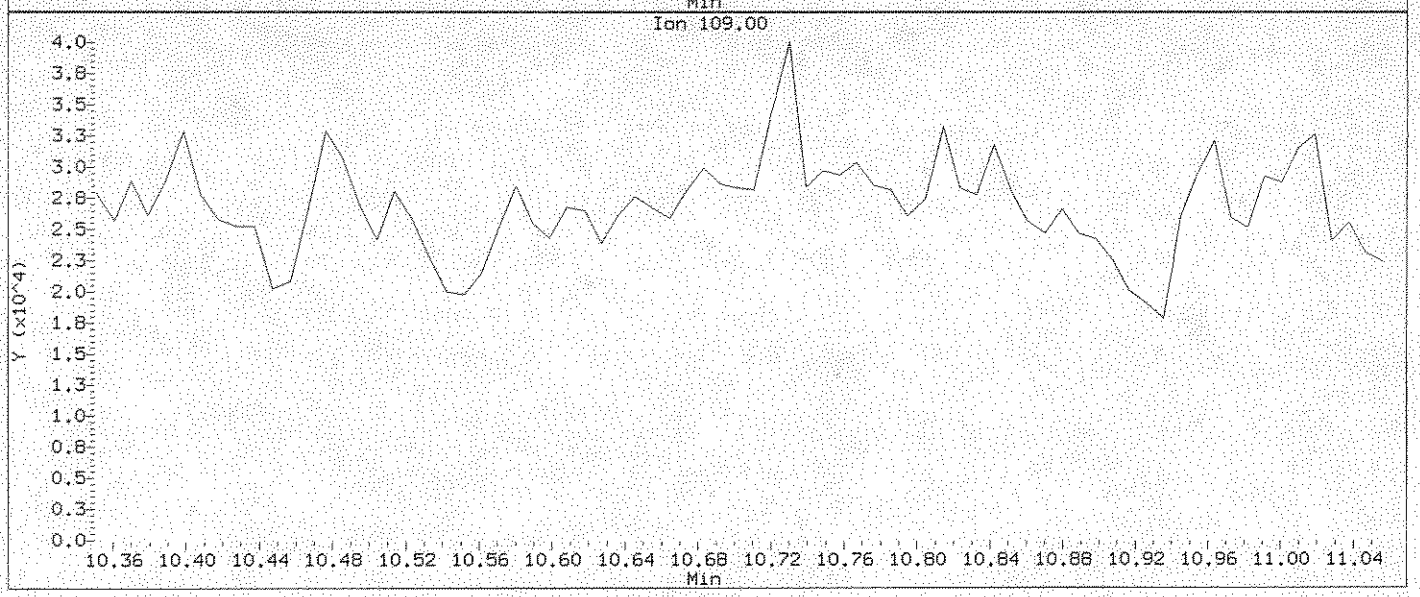
Injection Date: 05-OCT-2011 18:09
Instrument: bna1.i
Client Sample ID: 1J03003-MSD1

Compound: 4-Nitrophenol
CAS Number: 100-02-7







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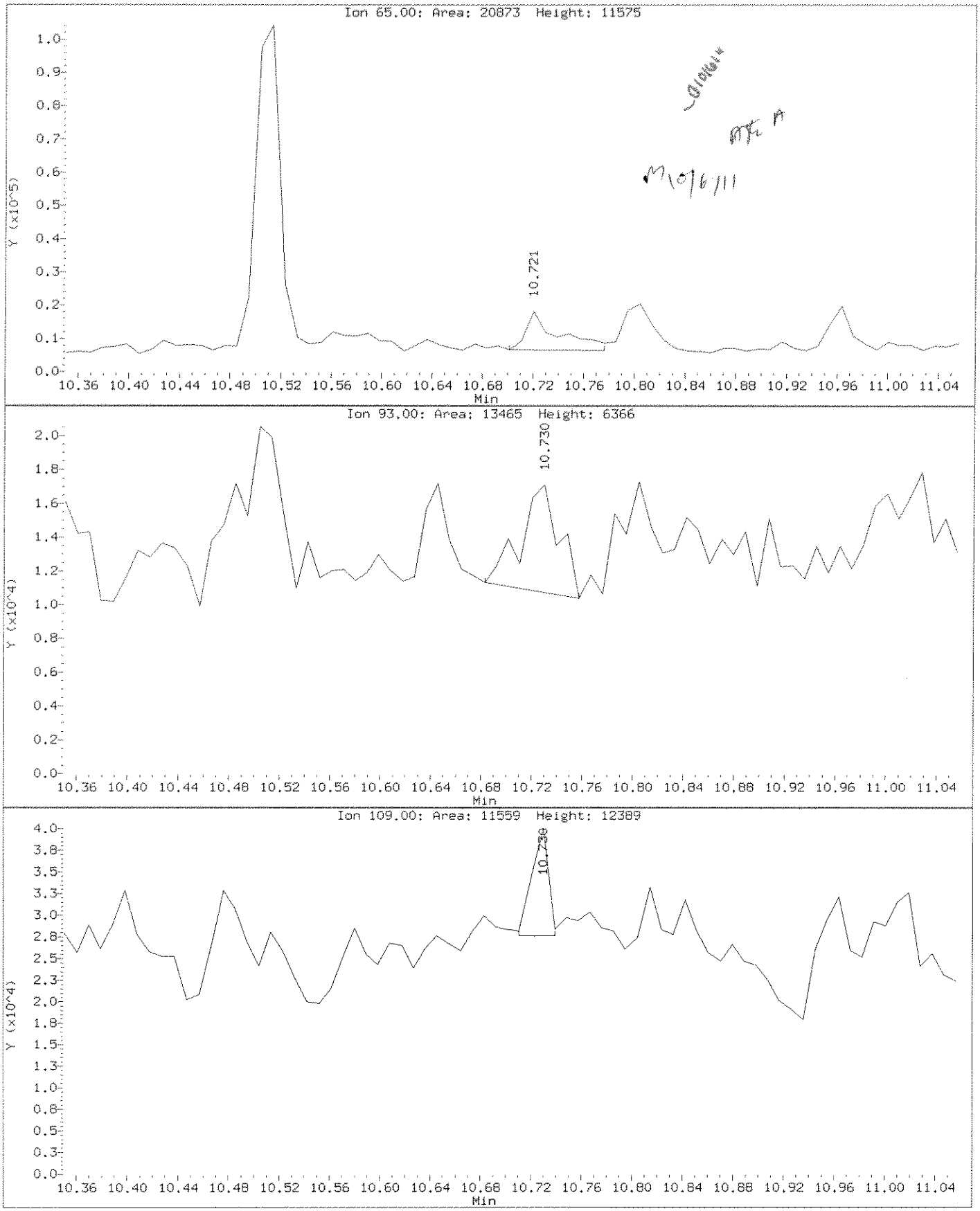
Injection Date: 05-OCT-2011 18:09
Instrument: bna1.i
Client Sample ID: 1J03003-MSD1

Compound: 4-Nitrophenol
CAS Number: 100-02-7



Sequence Name: C:\HPCHEM\1\SEQ\[illegible]

Comment: epa8270c
Operator: RDW
Data Path: C:\HPCHEM\1\DATA\101911b3\
Pre-Seq Cmd:
Post-Seq Cmd:

IJ2931J

Method Sections To Run
(X) Full Method
( ) Reprocessing Only

On A Barcode Mismatch
(X) Inject Anyway
( ) Don't Inject

Line	Type	Vial	DataFile	Method	Sample Name
1	DFTPP	1	SEQ-TUN1	DFTPPBN3	DF1019B1;;;;;;11H0721
2	DailyCal	2	SEQ-CCV1	IXBN3	CCV50PPM;;;;;;11J0398
3	Sample	3	0919211D	IXBN3	1109192-11;;15;1000;UG/KG;;04
4	Sample	4	0919215D	IXBN3	1109192-15;;15;1000;UG/KG;;04
5	Sample	5	1008903	IXBN3	1110089-03;;1000;1000;UG/L;;1
6	Sample	6	1008905	IXBN3	1110089-05;;1000;1000;UG/L;;1
7	Sample	7	1008907	IXBN3	1110089-07;;1000;1000;UG/L;;1
8	Sample	8	1008909	IXBN3	1110089-09;;1000;1000;UG/L;;1
9	Sample	9	J14001B1	IXBN3	1J14001-BLK1;;1000;1000;UG/L;
10	Sample	10	J14001L1	IXBN3	1J14001-BS1;;1000;1000;UG/L;;
11	Sample	11	1010503	IXBN3	1110105-03;;1000;1000;UG/L;;1
12	Sample	12	1010504	IXBN3	1110105-04;;1000;1000;UG/L;;1
13	Sample	13	1010505	IXBN3	1110105-05;;1000;1000;UG/L;;1
14	Sample	14	1009301	IXBN3	1110093-01;;1000;1000;UG/L;;1
15	Sample	15	J06004B1	IXBN3	1J06004-BLK1;;1000;1000;UG/L;
16	Sample	16	J06004L1	IXBN3	1J06004-BS1;;1000;1000;UG/L;;
17	Sample	17	1000309R	IXBN3	1110003-09;;1000;1000;UG/L;;1
18	Sample	18	1000312R	IXBN3	1110003-12;;1000;1000;UG/L;;1
19	Sample	19	1001901	IXBN3	1110019-01;;1000;1000;UG/L;;1

7812
10-20-11

Last Modified: Wed Oct 19 15:56:01 2011

Data File: \\ELABNSH04\DD\chem\bna3.i\101911b3.b\SEQ-TUN1.D

Date : 19-OCT-2011 14:12

Client ID: 50ppm DFTPP

Instrument: bna3.i

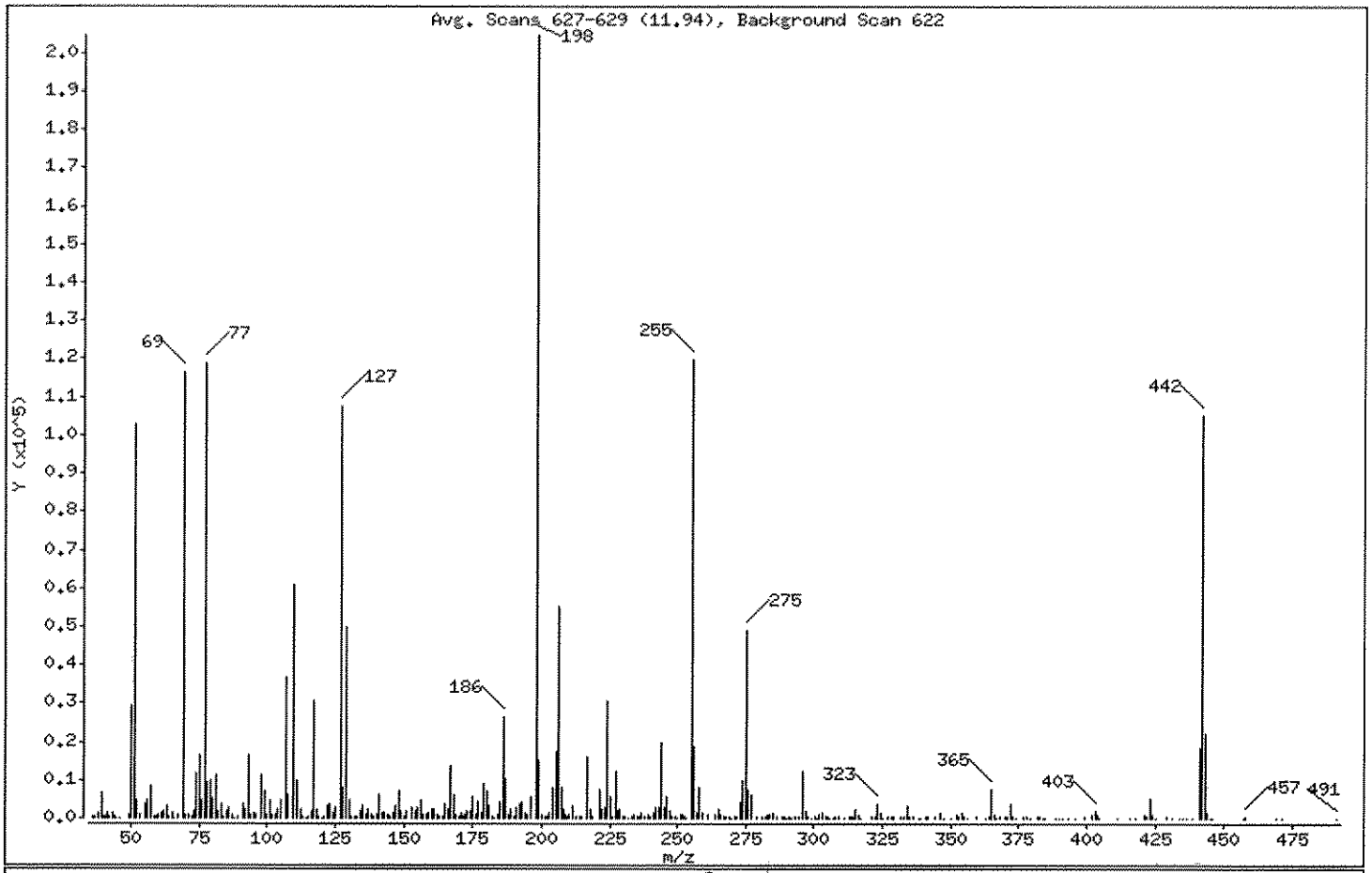
Sample Info: DF1019B1;;;;;;11H0721

Operator: RDW

Column phase: DB5-MS

Column diameter: 0.25

1 dftpp



RDW 10-20-11

m/e	ION ABUNDANCE CRITERIA	% RELATIVE ABUNDANCE
198	Base Peak, 100% relative abundance	100.00
51	30.00 - 60.00% of mass 198	50.21
68	Less than 2.00% of mass 69	0.00 (0.00)
69	Mass 69 relative abundance	56.81
70	Less than 2.00% of mass 69	0.43 (0.75)
127	40.00 - 60.00% of mass 198	52.57
197	Less than 1.00% of mass 198	0.00
199	5.00 - 9.00% of mass 198	7.35
275	10.00 - 30.00% of mass 198	23.92
365	Greater than 1.00% of mass 198	3.66
441	Present, but less than mass 443	8.88
442	Greater than 40.00% of mass 198	51.45
443	17.00 - 23.00% of mass 442	10.87 (21.13)

Data File: \\ELABNSH04\DD\chem\bna3.i\101911b3.b\SEQ-TUN1.D

Date : 19-OCT-2011 14:12

Client ID: 50ppm DFTPP | Instrument: bna3.i

Sample Info: DF1019B1;;;;;;11H0721

Operator: RDW

Column phase: DB5-MS | Column diameter: 0.25

Data File: SEQ-TUN1.D
Spectrum: Avg. Scans 627-629 (11.94), Background Scan 622
Location of Maximum: 198.00
Number of points: 347

m/z	Y	m/z	Y	m/z	Y	m/z	Y
35.70	278	131.10	451	219.00	531	314.00	353
37.00	506	132.10	446	221.10	7672	315.00	2157
38.20	1618	133.20	664	221.90	2362	316.00	1068
39.10	6765	134.20	1689	223.10	3058	317.20	179
40.20	389	135.10	3158	224.00	30792	321.00	249
40.40	396	136.20	899	225.00	5653	322.20	602
41.10	1235	137.10	2234	226.10	630	323.00	3792
42.10	316	138.00	813	227.00	12413	324.10	1329
43.20	1217	139.00	644	228.00	1935	324.90	150
44.10	497	140.20	850	228.90	2189	326.90	392
44.90	143	141.00	6238	230.20	468	328.00	478
46.00	151	142.00	1445	230.90	693	328.90	272
49.00	739	143.20	1621	231.90	139	331.80	376
50.10	29440	144.00	908	233.00	385	333.00	592
51.10	102728	144.90	520	234.00	905	334.00	3462
52.00	4830	146.00	1540	235.00	515	335.10	351
53.20	998	147.10	3131	236.10	374	335.90	345
55.20	3810	148.00	7062	236.80	1208	338.10	201
56.10	4918	149.00	1684	237.70	407	338.60	84
57.10	8506	150.30	468	239.10	866	340.90	557
58.30	386	151.10	1767	240.10	612	341.70	517
59.10	337	153.10	2796	241.00	1356	344.20	242
60.00	1071	154.10	1889	242.00	2725	345.90	1529
61.10	1384	155.00	2680	243.00	2717	347.70	163
62.10	1922	156.00	4671	244.00	19736	350.00	58
63.00	3494	157.00	931	245.00	3044	351.90	1177
64.10	577	158.10	1092	246.00	5466	352.90	439
65.00	1626	159.10	1365	247.00	1675	353.90	1457
66.20	154	160.00	2229	248.00	459	354.80	244
67.00	942	161.10	2519	249.10	364	355.90	61
69.00	116240	162.10	895	249.80	212	356.40	125
70.20	876	162.60	505	251.00	874	359.20	502
71.00	1122	163.10	280	252.00	865	363.00	92
72.40	496	164.10	403	252.60	350	363.80	390
73.00	1780	164.90	3644	253.10	190	364.90	7497

Data File: \\ELABNSH04\DD\chem\bna3.i\101911b3.b\SEQ-TUN1.D

Date : 19-OCT-2011 14:12

Client ID: 50ppm DFTPP

Instrument: bna3.i

Sample Info: DF1019B1;;;;;;11H0721

Operator: RDW

Column phase: DB5-MS

Column diameter: 0.25

Data File: SEQ-TUN1.D
Spectrum: Avg. Scans 627-629 (11.94), Background Scan 622
Location of Maximum: 198.00
Number of points: 347

m/z	Y	m/z	Y	m/z	Y	m/z	Y
74.10	11636	166.10	2387	255.00	119816	366.10	1024
75.10	16329	167.10	13671	256.00	18824	366.70	92
76.10	4696	168.00	5963	257.10	1345	367.80	434
77.10	118776	169.10	1159	258.00	8103	370.00	249
78.10	9435	170.20	397	259.00	1442	371.00	263
79.10	9724	171.00	1502	260.90	740	372.00	3940
80.00	5339	171.80	670	263.80	746	372.80	604
81.10	11414	172.10	758	264.90	2152	374.20	189
82.10	1846	173.10	1729	266.00	1077	376.70	435
83.20	3568	174.00	2073	267.00	459	377.80	236
84.00	585	175.10	5470	267.60	400	379.20	167
85.20	1702	176.00	1102	268.90	499	382.00	280
86.10	2631	177.00	4133	269.60	147	382.80	269
87.00	1067	178.00	1226	270.90	425	384.00	146
88.10	211	179.00	9024	271.90	569	384.40	97
89.00	421	180.10	6958	273.00	4179	388.40	62
91.00	3802	181.00	3226	274.00	10031	390.00	219
92.00	2249	182.10	507	275.00	48944	391.10	98
93.10	16592	182.90	191	276.10	7386	393.40	149
94.10	933	184.00	842	277.10	5898	396.10	149
95.20	1407	185.00	4143	279.20	700	399.20	249
96.00	1025	186.10	26184	281.10	440	402.10	962
98.00	11116	187.10	10437	282.10	383	403.00	2120
99.00	7223	188.10	999	283.10	711	403.70	728
100.10	713	189.10	2238	283.90	747	404.90	119
101.10	4494	189.80	438	285.00	1196	411.20	98
102.00	811	191.10	2727	286.20	238	415.90	149
102.90	1144	192.00	3888	288.10	363	418.10	136
104.10	2592	193.00	4027	289.00	440	421.00	835
105.00	4638	194.10	1395	289.70	220	422.20	537
107.10	36688	194.90	718	290.10	198	423.00	5076
108.00	5993	196.10	5780	291.10	581	424.00	933
110.00	60752	198.00	204608	291.80	231	425.00	160
111.00	10104	199.00	15029	293.10	562	428.90	448
112.10	2172	200.10	917	294.10	581	431.30	209

Data File: \\ELABNSH04\DD\chem\bna3.i\101911b3.b\SEQ-TUN1.D

Date : 19-OCT-2011 14:12

Client ID: 50ppm DFTPP

Instrument: bna3.i

Sample Info: DF1019B1;;;;;;11H0721

Operator: RDW

Column phase: DB5-MS

Column diameter: 0.25

Data File: SEQ-TUN1.D
Spectrum: Avg. Scans 627-629 (11.94), Background Scan 622
Location of Maximum: 198.00
Number of points: 347

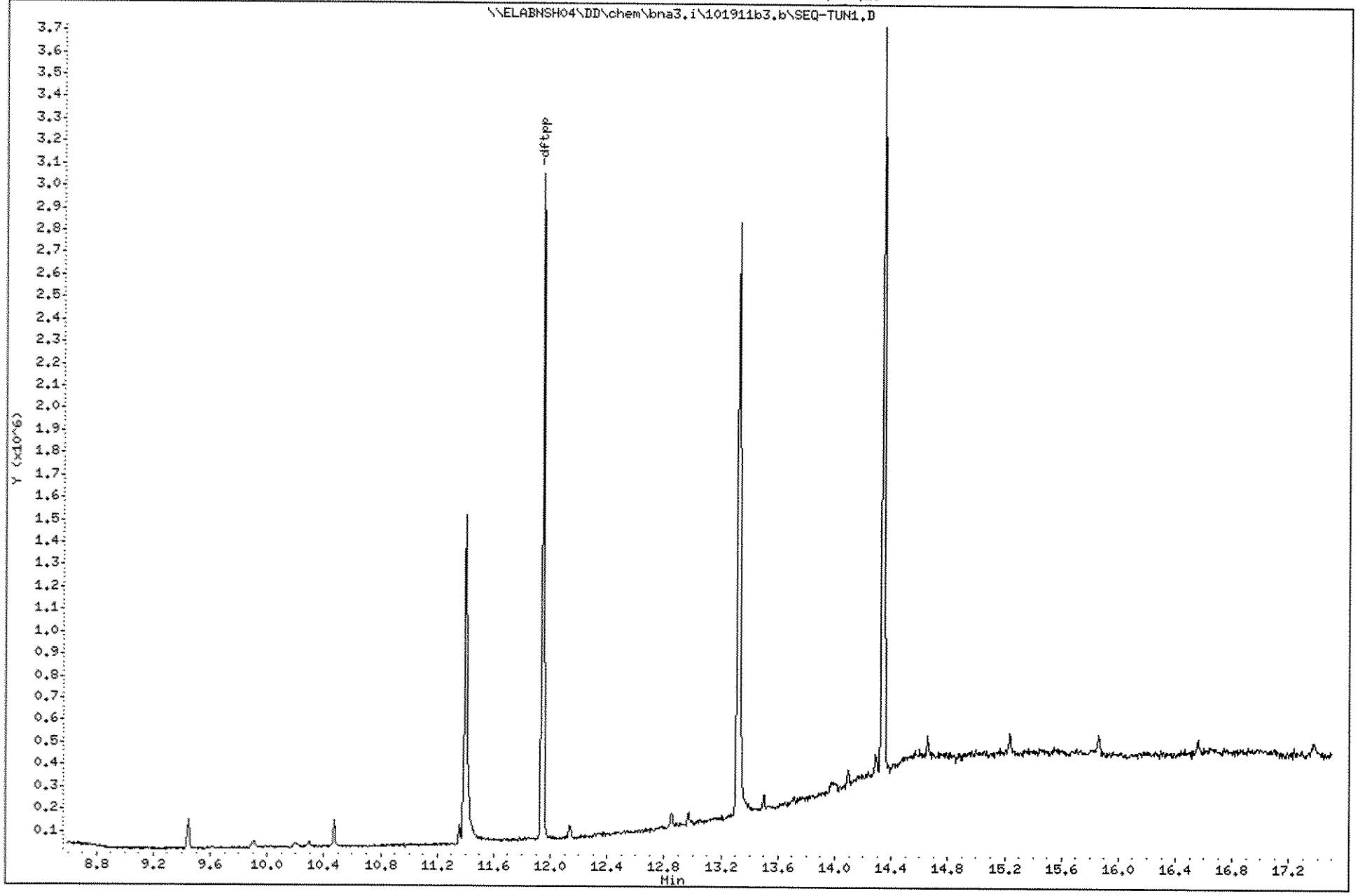
m/z	Y	m/z	Y	m/z	Y	m/z	Y
112.90	361	201.10	416	296.00	12053	433.90	132
114.20	182	202.00	629	297.10	1981	435.50	56
115.00	237	203.00	1481	297.80	326	436.20	53
116.10	2044	204.00	7832	299.00	52	436.80	71
117.10	30696	205.10	17384	300.20	299	438.80	197
118.10	2157	206.10	55160	301.00	74	441.00	18168
119.20	495	207.10	8235	302.00	778	442.00	105272
120.30	167	208.10	2427	303.00	1339	443.00	22248
120.90	249	208.90	990	304.10	539	444.10	1587
122.10	3177	209.50	628	305.00	252	445.00	58
123.10	3807	210.00	906	305.70	186	446.10	81
124.20	1489	211.20	3116	307.20	206	457.20	113
125.00	2898	213.00	290	307.90	295	457.60	440
127.10	107568	214.10	394	308.90	406	469.30	79
128.00	7949	214.80	551	311.30	98	470.80	164
129.00	49752	217.00	15795	312.90	269	491.30	116
130.10	4797	218.00	2402	313.80	372		

Data File: \\ELABNSH04\DD\chem\bna3.i\101911b3.b\SEQ-TUN1.D
Date : 19-OCT-2011 14:12
Client ID: 50ppm DFTPP
Sample Info: DF1019B1;;;;;;11H0721

Instrument: bna3.i

Operator: RDW
Column diameter: 0.25

Column phase: DB5-HS



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Report Date: 19-Oct-2011 14:59

Laboratory Name

Data file : \\ELABNSH04\DD\chem\bna3.i\101911b3.b\SEQ-TUN1ex.D
Lab Smp Id: SEQ-TUN1 Client Smp ID: 50ppm DFTPP
Inj Date : 19-OCT-2011 14:12 MS Autotune Date: 28-JUL-1998 06:19
Operator : RDW Inst ID: bna3.i
Smp Info : DF1019B1;;;;;;11H0721
Misc Info : ;;;;;;;all.sub;
Comment :
Method : \\ELABNSH04\DD\chem\bna3.i\101911b3.b\dftppbn3ex.m
Meth Date : 13-Oct-2011 13:00 gquick Quant Type: ESTD
Cal Date : Cal File:
Als bottle: 1 QC Sample: DFTPP
Dil Factor: 1.00000
Integrator: HP RTE Compound Sublist: all.sub
Target Version: 4.04
Processing Host: TARGET04_VM

Compounds	QUANT SIG MASS	RT	EXP RT	DLT RT	RESPONSE	CONCENTRATIONS ON-COLUMN (ng/ul)	FINAL (ng/ul)	
1 Pentachlorophenol	266	11.398	11.344	0.054	266218			
2 Benzidine	184	13.321	13.267	0.054	1552579			
4 4,4'-DDD	235	13.979	13.913	0.066	18282			(Q)
5 4,4'-DDT	235	14.342	14.282	0.060	745636			(H)

QC Flag Legend

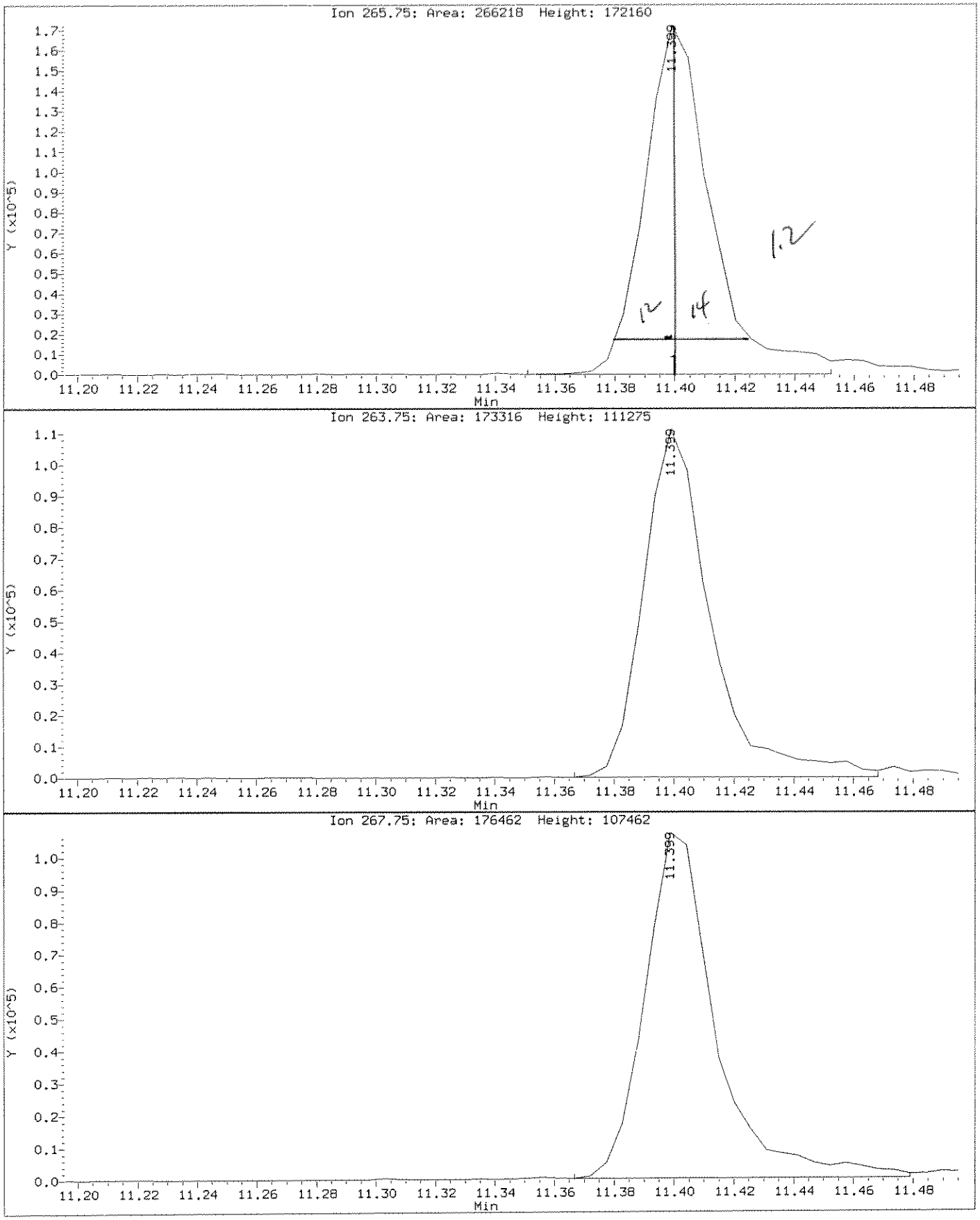
Q - Qualifier signal failed the ratio test.
H - Operator selected an alternate compound hit.

RDW
10-20-11

% Breakdown DDT 2.4%

Data File: \\ELABNSHO4\DD\chem\bna3.i\101911b3.b\SEQ-TUN1ex.D
Injection Date: 19-OCT-2011 14:12
Instrument: bna3.i
Client Sample ID: 50ppm DFTPP

Compound: Pentachlorophenol
CAS Number: 87-86-5



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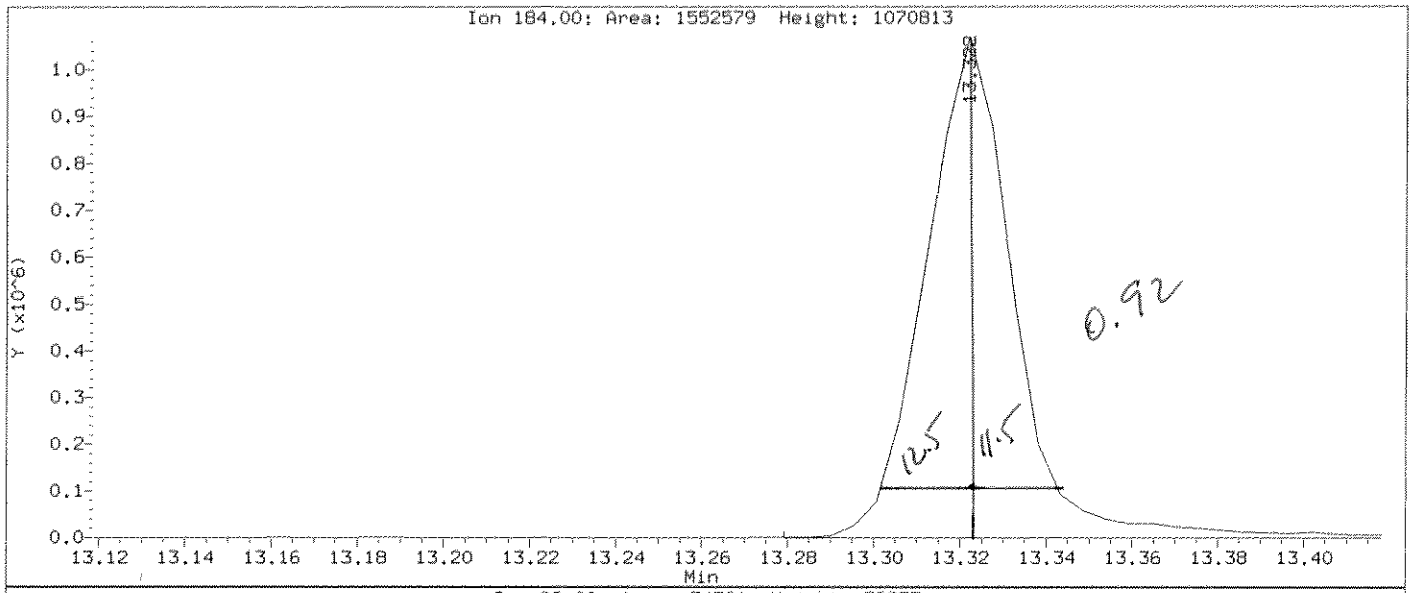
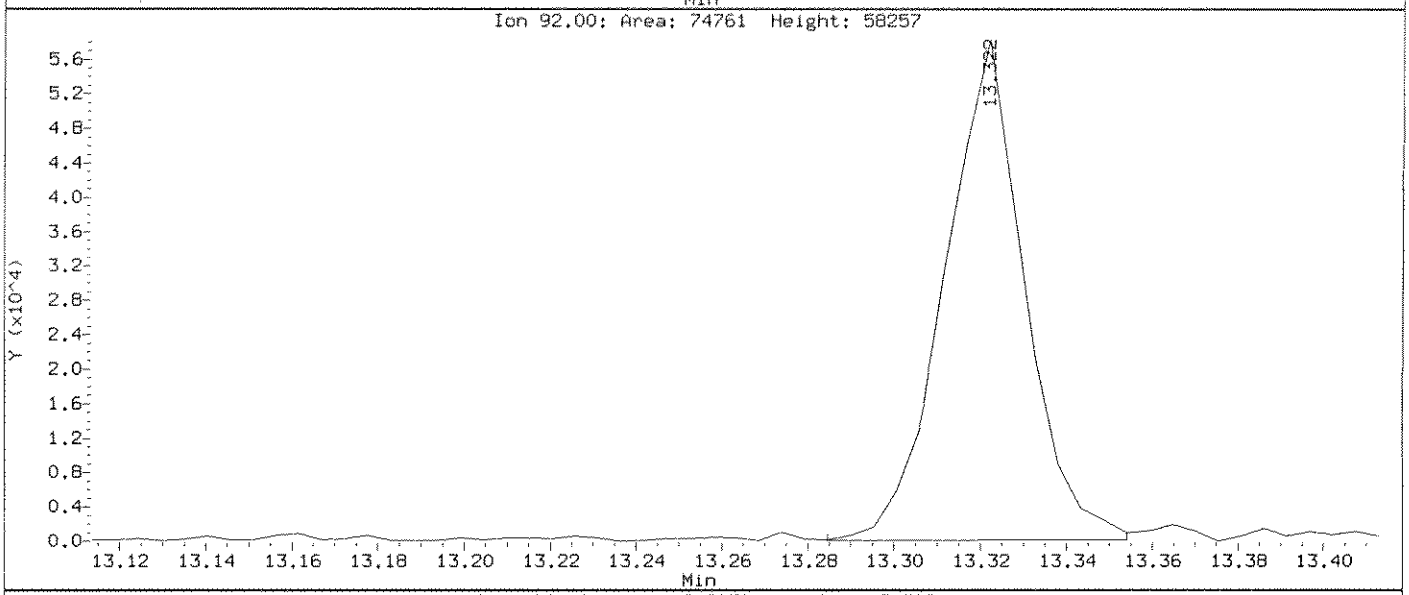
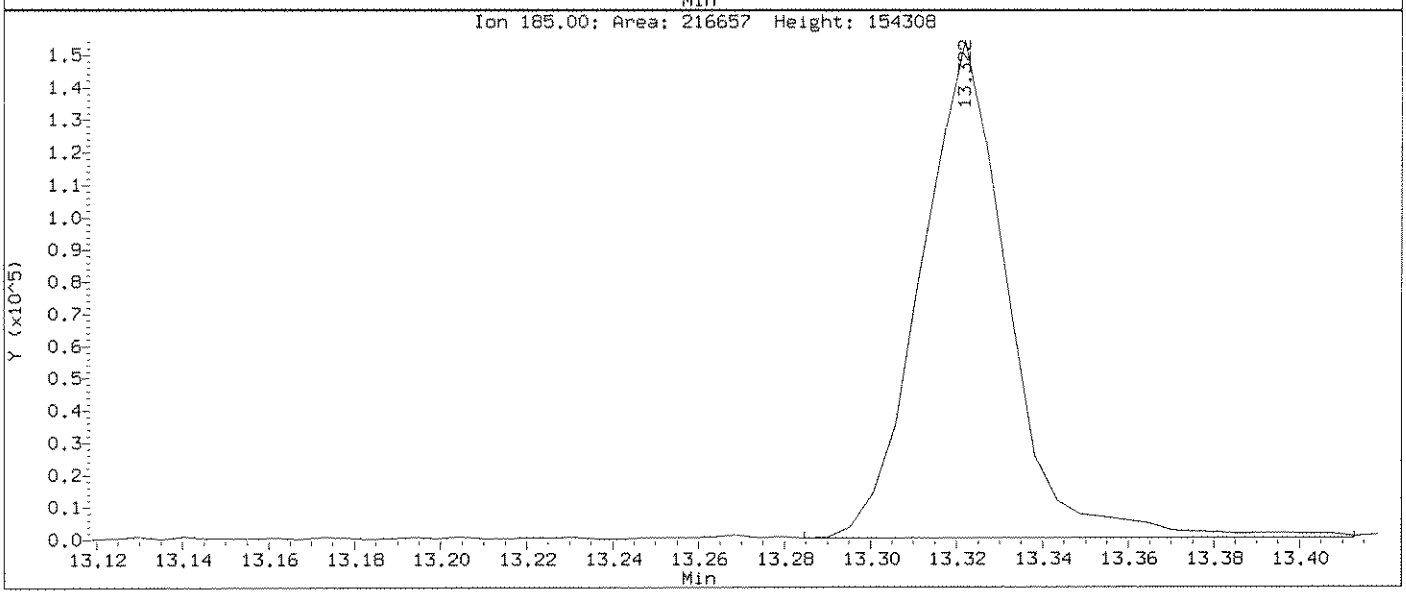
Injection Date: 19-OCT-2011 14:12
Instrument: bna3.i
Client Sample ID: 50ppm DFTPP

Compound: Benzidine
CAS Number: 92-87-5







Data File: \\ELABNSH04\DD\chem\bna3.i\101911b3.b\SEQ-CCV1.D
Report Date: 20-Oct-2011 08:52

Laboratory Name

Data file : \\ELABNSH04\DD\chem\bna3.i\101911b3.b\SEQ-CCV1.D
Lab Smp Id: CCV50PPM
Inj Date : 19-OCT-2011 14:39 MS Autotune Date: 28-JUL-1998 06:19
Operator : RDW Inst ID: bna3.i
Smp Info : CCV50PPM;;;;;;11J0398
Misc Info : ;2;CCV;;;;ppbnax.sub;
Comment :
Method : \\ELABNSH04\DD\chem\bna3.i\101911b3.b\IXBN3.m
Meth Date : 19-Oct-2011 16:31 mcobb Quant Type: ISTD
Cal Date : 30-APR-2011 01:58 Cal File: SEQ-CALG.D
Als bottle: 2 Continuing Calibration Sample
Dil Factor: 1.00000
Integrator: HP RTE Compound Sublist: ppbnax.sub
Target Version: 4.04
Processing Host: ELABNSH04

Concentration Formula: Amt * DF * Uf * Vt* Vi/(Amt * Vi)

Name	Value	Description
DF	1.000	Dilution Factor
Uf	1.000	ng unit correction factor
Vt	1000.000	Volume of final extract (uL)
Vi	0.500	Volume injected (uL)
Amt	1000.000	Volume of initial extraction

10-20-11

Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	AMOUNTS CAL-AMT (ng/ul)	AMOUNTS ON-COL (ng/ul)
* 1 1,4-Dichlorobenzene-d4	152	6.905	6.905	(1.000)	551979	40.0000	
$ 2 2-Fluorophenol	112	5.345	5.345	(0.774)	1506709	100.000	95.60
$ 3 Phenol-d6	99	6.451	6.451	(0.934)	2085075	100.000	96.06
4 Pyridine	79	4.031	4.031	(0.584)	692301	50.0000	33.83
5 1,4-Dioxane	88	3.700	3.700	(0.536)	252246	50.0000	33.81
6 N-Nitroso-di-methylamine	42	3.972	3.972	(0.575)	427819	50.0000	45.28
7 Aniline	93	6.499	6.499	(0.941)	1288151	50.0000	44.46
10 Phenol	94	6.467	6.467	(0.937)	1130173	50.0000	48.53
11 bis(2-Chloroethyl)ether	93	6.558	6.558	(0.950)	841832	50.0000	47.00
12 2-Chlorophenol	128	6.654	6.654	(0.964)	842366	50.0000	46.42
13 1,3-Dichlorobenzene	146	6.835	6.835	(0.990)	1002528	50.0000	50.88
14 1,4-Dichlorobenzene	146	6.926	6.926	(1.003)	1030866	50.0000	51.70
15 Benzyl alcohol	108	7.076	7.076	(1.025)	565341	50.0000	47.26
16 1,2-Dichlorobenzene	146	7.113	7.113	(1.030)	944346	50.0000	50.55

10/20/11

Data File: \\ELABNSH04\DD\chem\bna3.i\101911b3.b\SEQ-CCV1.D
Report Date: 20-Oct-2011 08:52

	Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	AMOUNTS CAL-AMT (ng/ul)	AMOUNTS ON-COL (ng/ul)
	17 2-Methylphenol	108	7.220	7.220	(1.046)	817404	50.0000	49.01
	18 2,2'-Oxybis-1-chloropropane	45	7.231	7.231	(1.047)	1046422	50.0000	38.94(Q)
	19 3-Methylphenol	108	7.418	7.418	(1.074)	891734	50.0000	50.95
	20 4-Methylphenol	108	7.418	7.418	(1.074)	891734	50.0000	50.95
	196 3-Methylphenol/4-Methylphenol	108	7.418	7.418	(1.074)	883789	50.0000	50.49
	21 N-Nitroso-di-n-propylamine	70	7.407	7.407	(1.073)	725012	50.0000	50.81
	22 Hexachloroethane	117	7.541	7.541	(1.092)	369140	50.0000	48.95
	32 Benzaldehyde	106	6.371	6.371	(0.923)	406517	50.0000	29.16
*	33 Naphthalene-d8	136	8.529	8.529	(1.000)	1914116	40.0000	
$	34 Nitrobenzene-d5	82	7.605	7.605	(0.892)	1009642	50.0000	51.77
	35 Nitrobenzene	77	7.631	7.631	(0.895)	1031643	50.0000	52.48
	39 Isophorone	82	7.941	7.941	(0.931)	1751236	50.0000	49.17
	40 2-Nitrophenol	139	8.032	8.032	(0.942)	469384	50.0000	50.52
	42 2,4-Dimethylphenol	107	8.091	8.091	(0.949)	919760	50.0000	52.85
	43 Benzoic acid	105	8.262	8.262	(0.969)	578062	50.0000	45.08(MH)
	44 bis(2-Chloroethoxy)methane	93	8.198	8.198	(0.961)	953992	50.0000	46.69
	47 2,4-Dichlorophenol	162	8.353	8.353	(0.979)	798621	50.0000	54.78
	62 2,6-Dichlorophenol	162	8.636	8.636	(1.013)	822866	50.0000	57.61
	50 1,2,4-Trichlorobenzene	180	8.449	8.449	(0.991)	924275	50.0000	56.45
	51 Naphthalene	128	8.556	8.556	(1.003)	2426201	50.0000	50.91
	52 4-Chloroaniline	127	8.625	8.625	(1.011)	1018742	50.0000	50.38
	53 Hexachlorobutadiene	225	8.689	8.689	(1.019)	553490	50.0000	61.90
	54 4-Chloro-3-methylphenol	107	9.266	9.266	(1.086)	783210	50.0000	52.57
	55 2-Methylnaphthalene	141	9.437	9.437	(1.106)	1383720	50.0000	48.40
	56 1-Methylnaphthalene	141	9.565	9.565	(1.122)	1386686	50.0000	49.34
	57 Acetophenone	105	7.412	7.412	(1.073)	1328567	50.0000	53.43
	67 1,2,4,5-Tetrachlorobenzene	216	9.645	9.645	(1.131)	954056	50.0000	59.46
	68 Caprolactam	113	9.138	9.138	(1.071)	276030	50.0000	51.12
*	69 Acenaphthene-d10	164	10.762	10.762	(1.000)	1219364	40.0000	
	70 Hexachlorocyclopentadiene	237	9.619	9.619	(0.894)	608878	50.0000	53.27
	71 2,4,6-Trichlorophenol	196	9.806	9.806	(0.911)	564904	50.0000	48.51
	72 2,4,5-Trichlorophenol	196	9.864	9.864	(0.917)	606543	50.0000	48.03(H)
	73 2-Chloronaphthalene	162	10.062	10.062	(0.935)	1818310	50.0000	54.84
$	74 2-Fluorobiphenyl	172	9.896	9.896	(0.920)	2038298	50.0000	52.84
	75 2-Nitroaniline	65	10.201	10.201	(0.948)	539498	50.0000	47.83
	76 Dimethylphthalate	163	10.415	10.415	(0.968)	1929072	50.0000	50.85
	77 Acenaphthylene	152	10.586	10.586	(0.984)	2586915	50.0000	49.19
	78 2,6-Dinitrotoluene	165	10.500	10.500	(0.976)	455256	50.0000	49.92
	79 3-Nitroaniline	138	10.730	10.730	(0.997)	452041	50.0000	45.90
	80 Acenaphthene	153	10.805	10.805	(1.004)	1611739	50.0000	47.62
	81 2,4-Dinitrophenol	184	10.863	10.863	(1.009)	296666	50.0000	52.48
	83 4-Nitrophenol	65	10.965	10.965	(1.019)	395097	50.0000	47.62
	84 Dibenzofuran	168	11.024	11.024	(1.024)	2422481	50.0000	51.77
	85 2,4-Dinitrotoluene	165	11.018	11.018	(1.024)	628127	50.0000	52.43
	86 Diethylphthalate	149	11.296	11.296	(1.050)	1898997	50.0000	52.14
	87 4-Chlorophenyl-phenylether	204	11.440	11.440	(1.063)	1028961	50.0000	54.15
	88 Fluorene	166	11.456	11.456	(1.065)	2061349	50.0000	50.56

Data File: \\ELABNSH04\DD\chem\bna3.i\101911b3.b\SEQ-CCV1.D
Report Date: 20-Oct-2011 08:52

Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	AMOUNTS CAL-AMT (ng/ul)	AMOUNTS ON-COL (ng/ul)
89 4-Nitroaniline	138	11.504	11.504	(1.069)	451323	50.0000	45.24
96 2,3,4,6-Tetrachlorophenol	232	11.130	11.130	(1.034)	495699	50.0000	48.67(H)
100 1,1'-Biphenyl	154	10.030	10.030	(0.932)	2147663	50.0000	48.77
* 102 Phenanthrene-d10	188	12.664	12.664	(1.000)	2021396	40.0000	
103 1,2-Diphenylhydrazine	77	11.643	11.643	(0.919)	2038249	50.0000	47.41(H)
104 Carbazole	167	12.989	12.989	(1.026)	2392423	50.0000	45.33
105 4,6-Dinitro-2-methylphenol	198	11.536	11.536	(0.911)	414800	50.0000	56.45
106 N-Nitrosodiphenylamine	169	11.601	11.601	(0.916)	1723330	50.0000	50.68
$ 107 2,4,6-Tribromophenol	330	11.766	11.766	(0.929)	580813	100.000	104.6(A)
108 4-Bromophenyl-phenylether	248	12.060	12.060	(0.952)	613435	50.0000	53.13
109 Hexachlorobenzene	284	12.145	12.145	(0.959)	630161	50.0000	51.03
110 Pentachlorophenol	266	12.413	12.413	(0.980)	312520	50.0000	38.10
111 Phenanthrene	178	12.696	12.696	(1.003)	2716074	50.0000	49.96
112 Anthracene	178	12.765	12.765	(1.008)	2779390	50.0000	50.33
115 Di-n-butylphthalate	149	13.444	13.444	(1.062)	2683894	50.0000	44.93
116 Fluoranthene	202	14.453	14.453	(1.141)	2458364	50.0000	39.43
129 Atrazine	200	12.268	12.268	(0.969)	223085	50.0000	18.83
* 132 Chrysene-d12	240	17.092	17.092	(1.000)	1590768	40.0000	
133 Benzidine	184	14.683	14.683	(0.859)	1019578	50.0000	39.98(a)
134 Pyrene	202	14.838	14.838	(0.868)	2437891	50.0000	52.67
$ 135 Terphenyl-d14	244	15.084	15.084	(0.882)	1673082	50.0000	56.38
136 Butylbenzylphthalate	149	15.986	15.986	(0.935)	1055509	50.0000	51.74
137 3,3'-Dichlorobenzidine	252	17.028	17.028	(0.996)	859413	50.0000	53.13
138 Benzo(a)anthracene	228	17.076	17.076	(0.999)	2237412	50.0000	50.26
139 Chrysene	228	17.146	17.146	(1.003)	2174260	50.0000	52.17(H)
140 Bis(2-ethylhexyl)phthalate	149	17.135	17.135	(1.002)	1472145	50.0000	54.49
* 154 Perylene-d12	264	20.036	20.036	(1.000)	1402669	40.0000	
155 Di-n-octylphthalate	149	18.476	18.476	(0.922)	2372801	50.0000	56.18
156 Benzo(b)fluoranthene	252	19.240	19.240	(0.960)	2189746	50.0000	57.10
157 Benzo(k)fluoranthene	252	19.288	19.288	(0.963)	1985574	50.0000	51.12(H)
158 Benzo(a)pyrene	252	19.913	19.913	(0.994)	1872235	50.0000	51.05
159 Indeno(1,2,3-cd)pyrene	276	22.766	22.766	(1.136)	1822270	50.0000	50.06
160 Dibenz(a,h)anthracene	278	22.824	22.824	(1.139)	1787959	50.0000	50.76
161 Benzo(g,h,i)perylene	276	23.572	23.572	(1.177)	1719625	50.0000	47.46

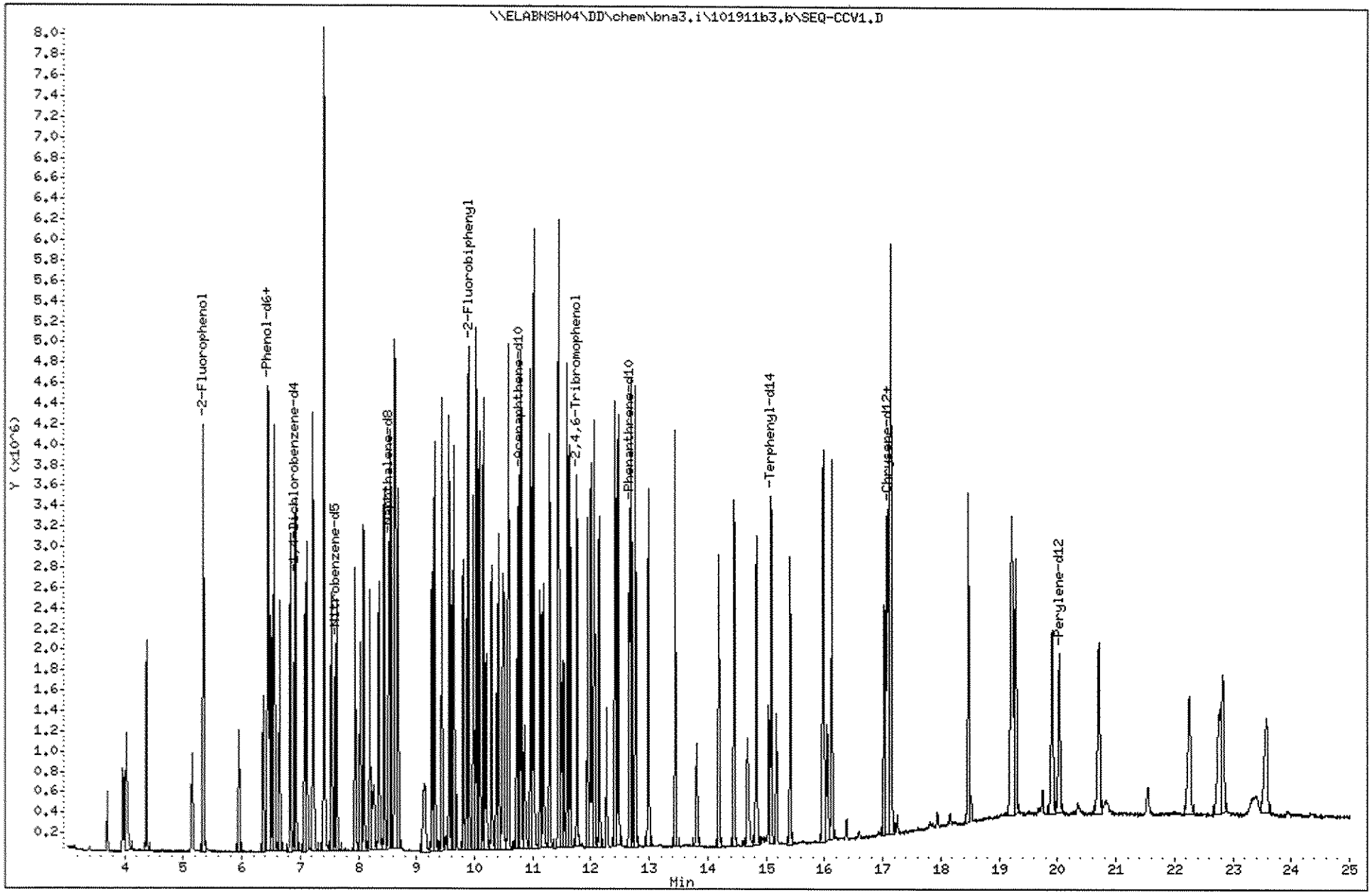
QC Flag Legend

a - Target compound detected but, quantitated amount Below Limit Of Quantitation(BLOQ).
A - Target compound detected but, quantitated amount exceeded maximum amount.
Q - Qualifier signal failed the ratio test.
M - Compound response manually integrated.
H - Operator selected an alternate compound hit.

Data File: \\ELABNSH04\DD\chem\bna3.i\101911b3.b\SEQ-CCV1.D
Date : 19-OCT-2011 14:39
Client ID:
Sample Info: CCV50PPM;;;;;;11J0398
Volume Injected (uL): 0.5
Column phase: fused silica

Instrument: bna3.i

Operator: RDW
Column diameter: 0.25



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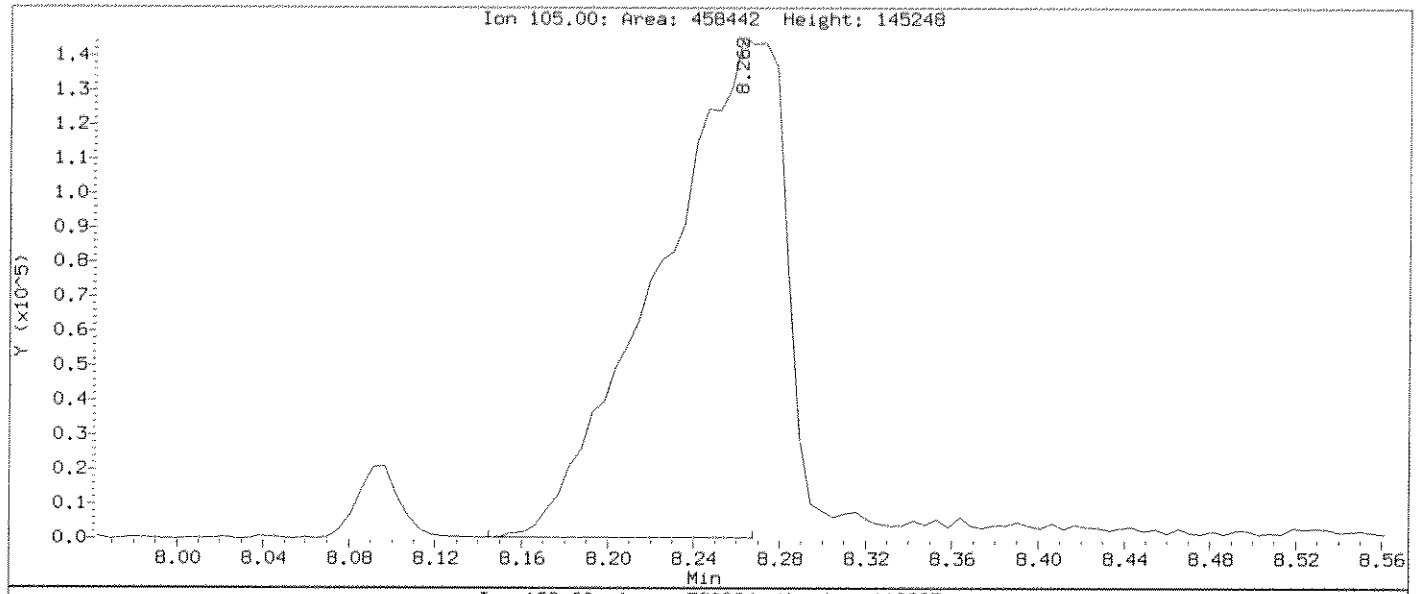
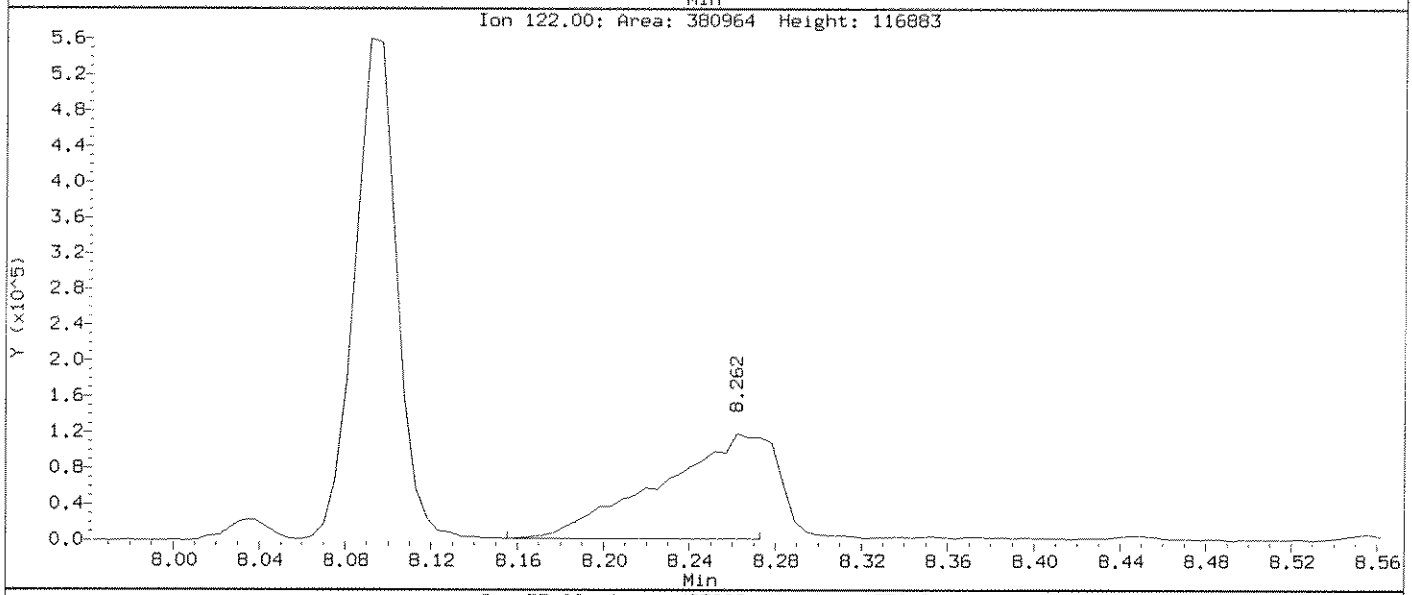
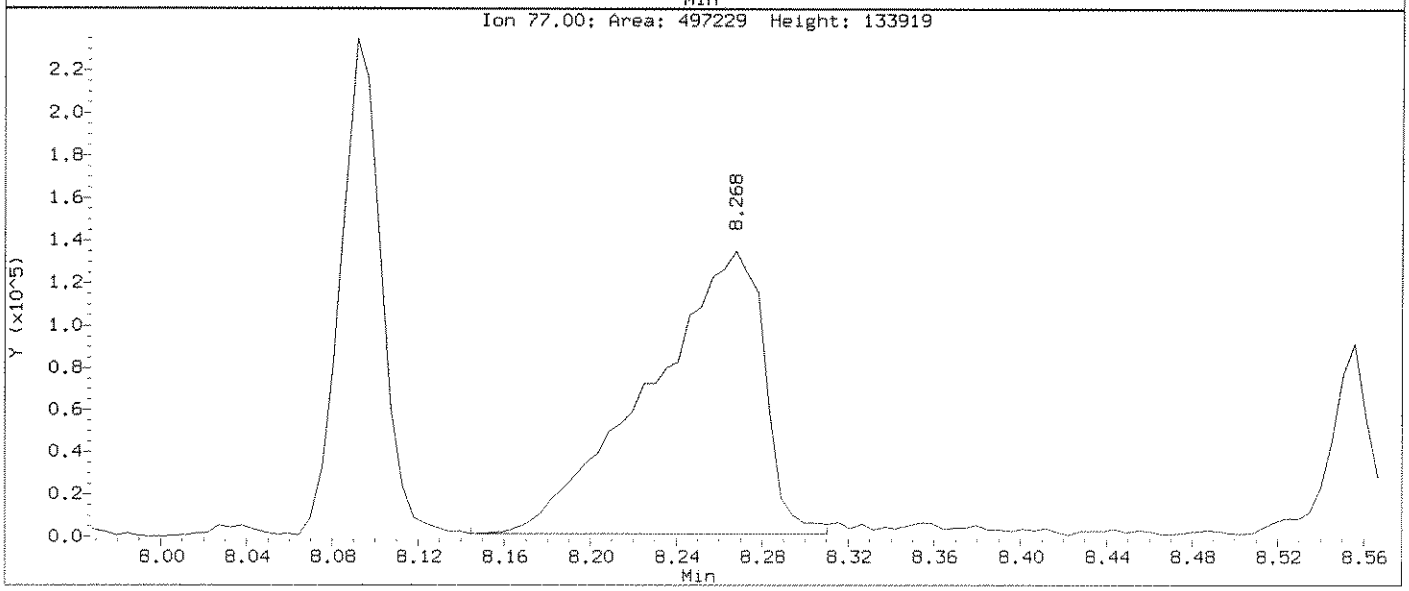
Data File: \\ELABNSH04\DD\chem\bna3.i\101911b3.b\SEQ-CCV1.D
Injection Date: 19-OCT-2011 14:39
Instrument: bna3.i
Client Sample ID:

Compound: Benzoic acid
CAS Number: 65-85-0

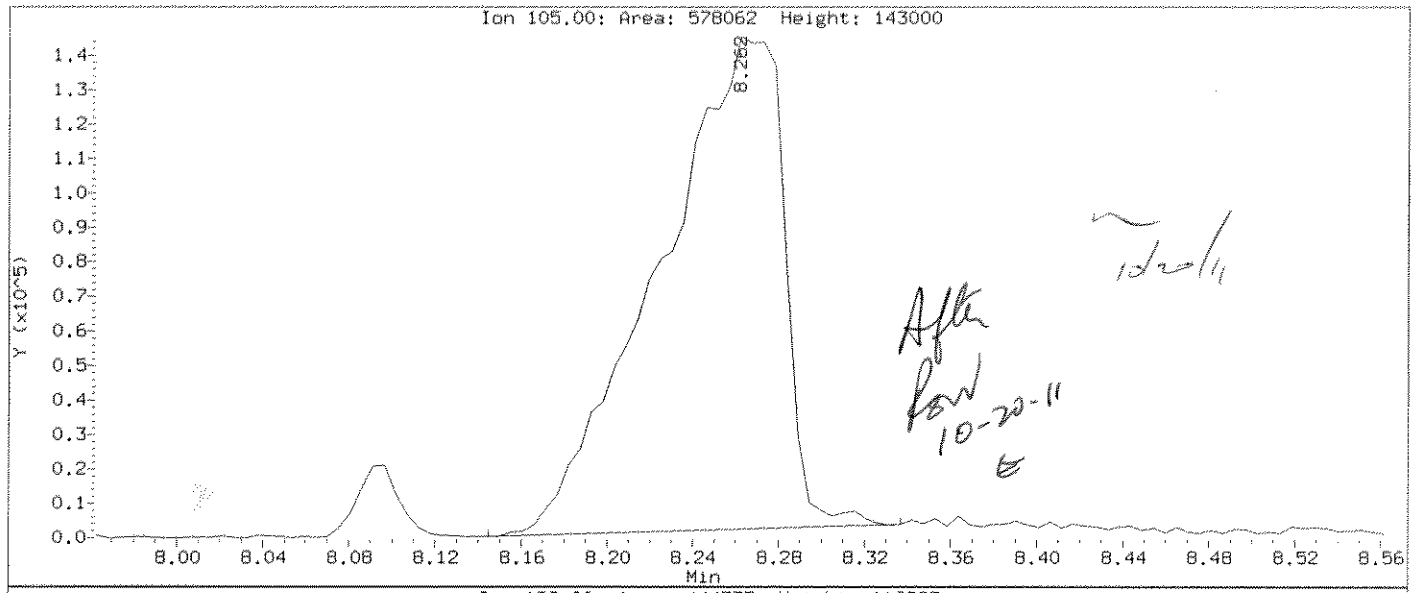


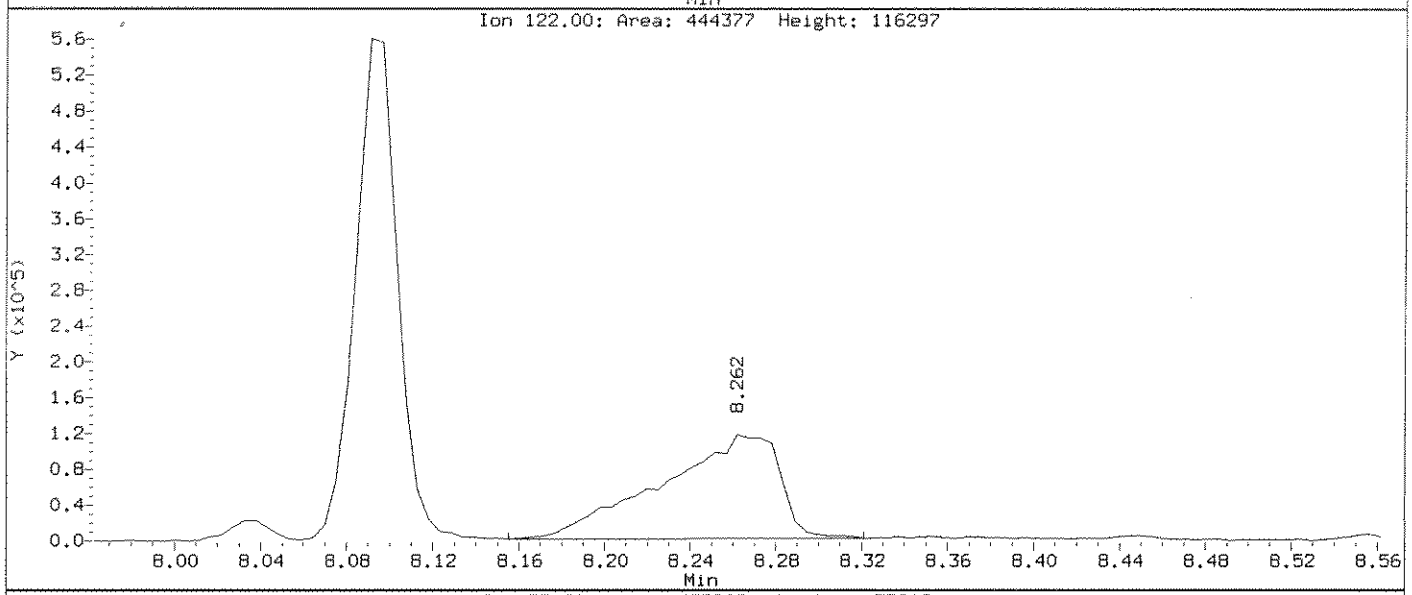


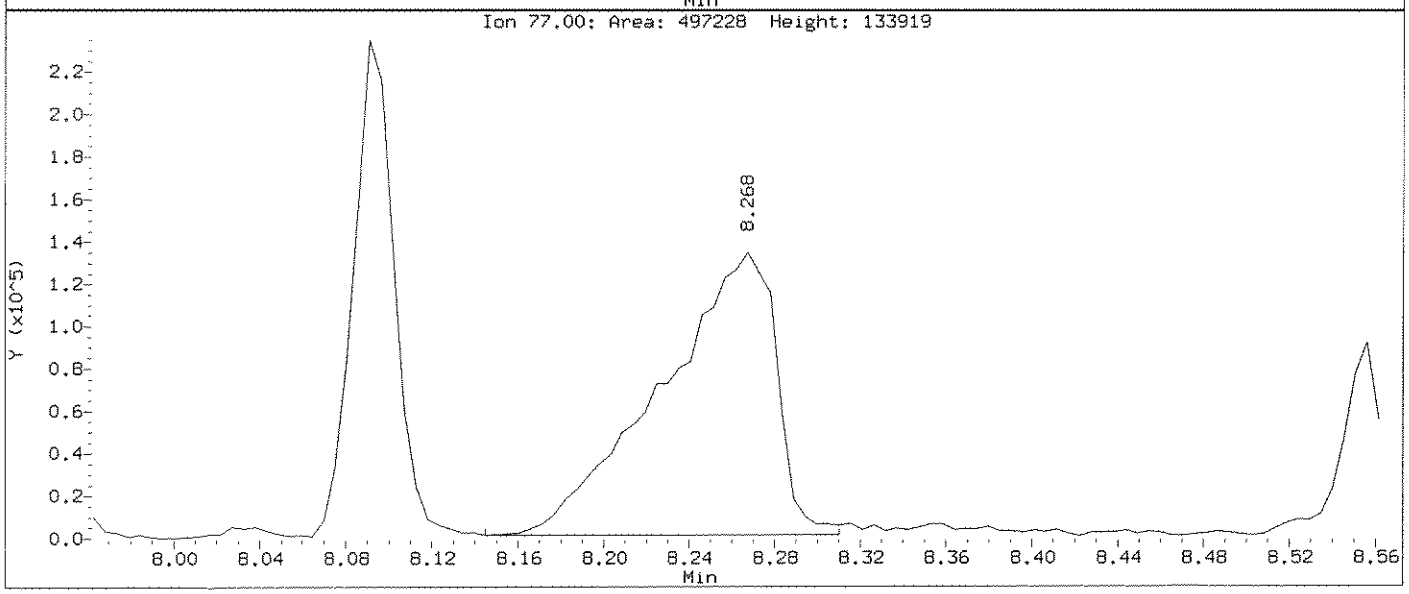


Data File: \\ELABNSHO4\DD\chem\bna3.i\101911b3.b\SEQ-CCV1.D
Injection Date: 19-OCT-2011 14:39
Instrument: bna3.i
Client Sample ID:

Compound: Benzoic acid
CAS Number: 65-85-0







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Report Date: 20-Oct-2011 09:10

Laboratory Name

Data file : \\ELABNSH04\DD\chem\bna3.i\101911b3.b\J06004B1.D
Lab Smp Id: 1J06004-BLK1 Client Smp ID: 1J06004-BLK1
Inj Date : 19-OCT-2011 22:16
Operator : RDW Inst ID: bna3.i
Smp Info : 1J06004-BLK1;;1000;1000;UG/L;;06-OCT-2011
Misc Info : ;0;;;;1J06004;ppbnax.sub;
Comment :
Method : \\ELABNSH04\DD\chem\bna3.i\101911b3.b\IXBN3.m
Meth Date : 19-Oct-2011 16:31 mcobb Quant Type: ISTD
Cal Date : 30-APR-2011 01:58 Cal File: SEQ-CALG.D
Als bottle: 15 QC Sample: BLANK
Dil Factor: 1.00000
Integrator: HP RTE Compound Sublist: ppbnax.sub
Target Version: 4.04
Processing Host: TARGET04_VM

Concentration Formula: Amt * DF * Uf * Vt* Vi/(Amt * Vi)

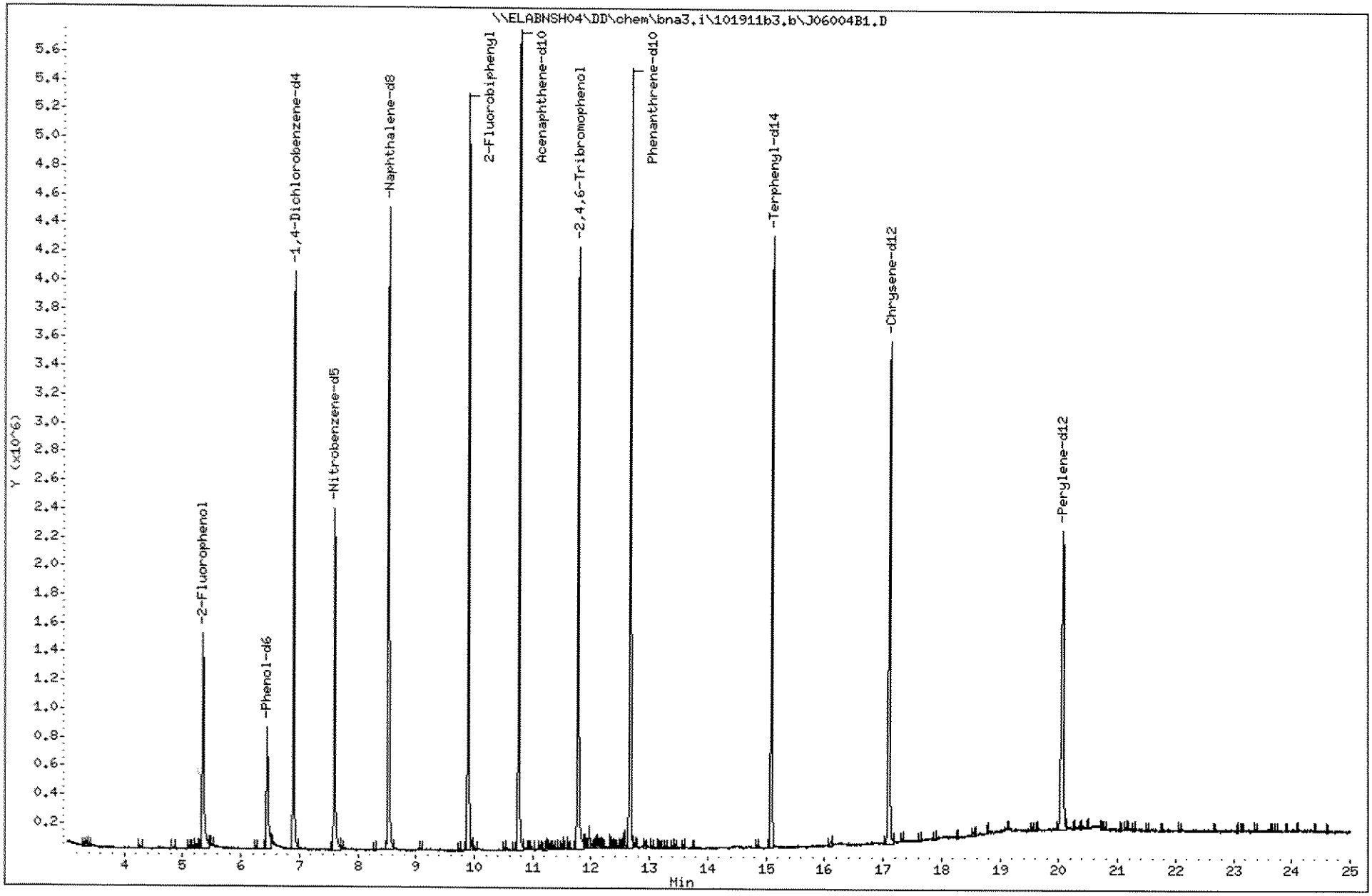
Name	Value	Description
DF	1.000	Dilution Factor
Uf	0.000	ng unit correction factor
Vt	1000.000	Volume of final extract (uL)
Vi	0.500	Volume injected (uL)
Amt	1000.000	Volume of initial extraction

Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS ON-COLUMN (ng/ul)	FINAL (ug/L)
* 1 1,4-Dichlorobenzene-d4	152	6.899	6.905	(1.000)	958475	40.0000	
$ 2 2-Fluorophenol	112	5.350	5.345	(0.775)	806754	29.4774	29.48
$ 3 Phenol-d6	99	6.445	6.451	(0.934)	609140	16.1611	16.16
* 33 Naphthalene-d8	136	8.518	8.529	(1.000)	3394377	40.0000	
$ 34 Nitrobenzene-d5	82	7.599	7.605	(0.892)	1319124	38.1422	38.14
* 69 Acenaphthene-d10	164	10.762	10.762	(1.000)	2140374	40.0000	
$ 74 2-Fluorobiphenyl	172	9.891	9.896	(0.919)	2489975	36.7732	36.77
* 102 Phenanthrene-d10	188	12.664	12.664	(1.000)	3223316	40.0000	
$ 107 2,4,6-Tribromophenol	330	11.772	11.766	(0.930)	770238	86.9975	87.00
* 132 Chrysene-d12	240	17.103	17.092	(1.000)	2769959	40.0000	
$ 135 Terphenyl-d14	244	15.089	15.084	(0.882)	2394766	46.3429	46.34
* 154 Perylene-d12	264	20.068	20.036	(1.000)	2181483	40.0000	

Data File: \\ELABNSH04\DD\chem\bna3.i\101911b3.b\J06004B1.D
Date : 19-OCT-2011 22:16
Client ID: 1J06004-BLK1
Sample Info: 1J06004-BLK1;;1000;1000;UG/L;;06-OCT-2011
Volume Injected (uL): 0.5
Column phase: fused silica

Instrument: bna3.i

Operator: RDW
Column diameter: 0.25



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Report Date: 20-Oct-2011 09:10

Laboratory Name

Data file : \\ELABNSH04\DD\chem\bna3.i\101911b3.b\J06004L1.D
Lab Smp Id: 1J06004-BS1 Client Smp ID: 1J06004-BS1
Inj Date : 19-OCT-2011 22:51 MS Autotune Date: 28-JUL-1998 06:19
Operator : RDW Inst ID: bna3.i
Smp Info : 1J06004-BS1;;1000;1000;UG/L;;06-OCT-2011
Misc Info : ;0;;;;1J06004;ppbnax.sub;
Comment :
Method : \\ELABNSH04\DD\chem\bna3.i\101911b3.b\IXBN3.m
Meth Date : 19-Oct-2011 16:31 mcobb Quant Type: ISTD
Cal Date : 30-APR-2011 01:58 Cal File: SEQ-CALG.D
Als bottle: 16 QC Sample: LCS
Dil Factor: 1.00000
Integrator: HP RTE Compound Sublist: ppbnax.sub
Target Version: 4.04
Processing Host: TARGET04_VM

Concentration Formula: Amt * DF * Uf * Vt* Vi/(Amt * Vi)

Name	Value	Description
DF	1.000	Dilution Factor
Uf	0.000	ng unit correction factor
Vt	1000.000	Volume of final extract (uL)
Vi	0.500	Volume injected (uL)
Amt	1000.000	Volume of initial extraction

10-20-11

Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS ON-COLUMN (ng/ul)	FINAL (ug/L)
* 1 1,4-Dichlorobenzene-d4	152	6.897	6.905	(1.000)	215229	40.0000	
$ 2 2-Fluorophenol	112	5.337	5.345	(0.774)	192825	31.3755	31.38
$ 3 Phenol-d6	99	6.448	6.451	(0.935)	145840	17.2310	17.23
4 Pyridine	79	4.023	4.031	(0.583)	39407	4.93910	4.939(a)
5 1,4-Dioxane	88	3.681	3.700	(0.534)	22484	7.72983	7.730(H)
6 N-Nitroso-di-methylamine	42	3.959	3.972	(0.574)	50069	13.5918	13.59
7 Aniline	93	6.491	6.499	(0.941)	199730	17.6810	17.68
10 Phenol	94	6.464	6.467	(0.937)	91507	10.0767	10.08(Q)
11 bis(2-Chloroethyl)ether	93	6.550	6.558	(0.950)	258972	37.0843	37.08
12 2-Chlorophenol	128	6.651	6.654	(0.964)	169677	23.9803	23.98
13 1,3-Dichlorobenzene	146	6.827	6.835	(0.990)	168986	21.9967	22.00
14 1,4-Dichlorobenzene	146	6.918	6.926	(1.003)	183155	23.5572	23.56
15 Benzyl alcohol	108	7.073	7.076	(1.026)	107222	22.9901	22.99
16 1,2-Dichlorobenzene	146	7.111	7.113	(1.031)	184997	25.3969	25.40

10/20/11

Data File: \\ELABNSH04\DD\chem\bna3.i\101911b3.b\J06004L1.D
Report Date: 20-Oct-2011 09:10

	Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS ON-COLUMN (ng/ul)	FINAL (ug/L)
	17 2-Methylphenol	108	7.223	7.220	(1.047)	140761	21.6444	21.64(Q)
	18 2,2'-Oxybis-1-chloropropane	45	7.223	7.231	(1.047)	353701	33.7601	33.76
	19 3-Methylphenol	108	7.420	7.418	(1.076)	143959	21.0930	21.09
	20 4-Methylphenol	108	7.420	7.418	(1.076)	143959	21.0930	21.09
	196 3-Methylphenol/4-Methylphenol	108	7.420	7.418	(1.076)	145091	21.2589	21.26
	21 N-Nitroso-di-n-propylamine	70	7.394	7.407	(1.072)	219028	39.3689	39.37
	22 Hexachloroethane	117	7.533	7.541	(1.092)	42406	14.4220	14.42(R)
	32 Benzaldehyde	106	6.363	6.371	(0.923)	195079	35.8925	35.89
*	33 Naphthalene-d8	136	8.521	8.529	(1.000)	756644	40.0000	
$	34 Nitrobenzene-d5	82	7.602	7.605	(0.892)	297407	38.5780	38.58
	35 Nitrobenzene	77	7.623	7.631	(0.895)	336803	43.3433	43.34
	39 Isophorone	82	7.928	7.941	(0.930)	510496	36.2599	36.26
	40 2-Nitrophenol	139	8.029	8.032	(0.942)	126919	34.5596	34.56
	42 2,4-Dimethylphenol	107	8.099	8.091	(0.950)	229382	33.3450	33.34
	43 Benzoic acid	105	8.094	8.262	(0.950)	7738	1.52672	1.527(aQM)
	44 bis(2-Chloroethoxy)methane	93	8.190	8.198	(0.961)	358060	44.3312	44.33
	47 2,4-Dichlorophenol	162	8.377	8.353	(0.983)	213891	37.1131	37.11
	62 2,6-Dichlorophenol	162	8.633	8.636	(1.013)	235147	41.6481	41.65
	50 1,2,4-Trichlorobenzene	180	8.446	8.449	(0.991)	174656	26.9841	26.98
	51 Naphthalene	128	8.548	8.556	(1.003)	660435	35.0577	35.06
	52 4-Chloroaniline	127	8.633	8.625	(1.013)	209814	26.2508	26.25
	53 Hexachlorobutadiene	225	8.687	8.689	(1.019)	72059	20.3867	20.39
	54 4-Chloro-3-methylphenol	107	9.280	9.266	(1.089)	208896	35.4688	35.47
	55 2-Methylnaphthalene	141	9.434	9.437	(1.107)	374172	33.1101	33.11
	56 1-Methylnaphthalene	141	9.563	9.565	(1.122)	349360	31.4488	31.45
	57 Acetophenone	105	7.404	7.412	(1.074)	357266	36.8468	36.85
	67 1,2,4,5-Tetrachlorobenzene	216	9.648	9.645	(1.132)	278194	43.8637	43.86
	68 Caprolactam	113	9.125	9.138	(1.071)	14539	6.81133	6.811(QRM)
*	69 Acenaphthene-d10	164	10.759	10.762	(1.000)	493680	40.0000	
	70 Hexachlorocyclopentadiene	237	9.616	9.619	(0.894)	21488	4.64310	4.643(aR)
	71 2,4,6-Trichlorophenol	196	9.814	9.806	(0.912)	175760	37.2792	37.28
	72 2,4,5-Trichlorophenol	196	9.899	9.864	(0.920)	180103	35.2255	35.22
	73 2-Chloronaphthalene	162	10.059	10.062	(0.935)	488701	36.4018	36.40
$	74 2-Fluorobiphenyl	172	9.894	9.896	(0.920)	625756	40.0669	40.07
	75 2-Nitroaniline	65	10.204	10.201	(0.948)	179103	39.2182	39.22
	76 Dimethylphthalate	163	10.401	10.415	(0.967)	730249	47.5457	47.54
	77 Acenaphthylene	152	10.588	10.586	(0.984)	735501	34.5427	34.54
	78 2,6-Dinitrotoluene	165	10.498	10.500	(0.976)	159388	43.1647	43.16
	79 3-Nitroaniline	138	10.727	10.730	(0.997)	107367	26.9261	26.93
	80 Acenaphthene	153	10.802	10.805	(1.004)	500871	36.5492	36.55
	81 2,4-Dinitrophenol	184	10.904	10.863	(1.013)	15073	6.58584	6.586(aR)
	83 4-Nitrophenol	65	11.021	10.965	(1.024)	35144	10.4623	10.46(aQM)
	84 Dibenzofuran	168	11.021	11.024	(1.024)	804072	42.4393	42.44
	85 2,4-Dinitrotoluene	165	11.021	11.018	(1.024)	221542	45.6768	45.68
	86 Diethylphthalate	149	11.283	11.296	(1.049)	734916	49.8404	49.84
	87 4-Chlorophenyl-phenylether	204	11.438	11.440	(1.063)	362150	47.0730	47.07
	88 Fluorene	166	11.454	11.456	(1.065)	679770	41.1791	41.18

Data File: \\ELABNSH04\DD\chem\bna3.i\101911b3.b\J06004L1.D
Report Date: 20-Oct-2011 09:10

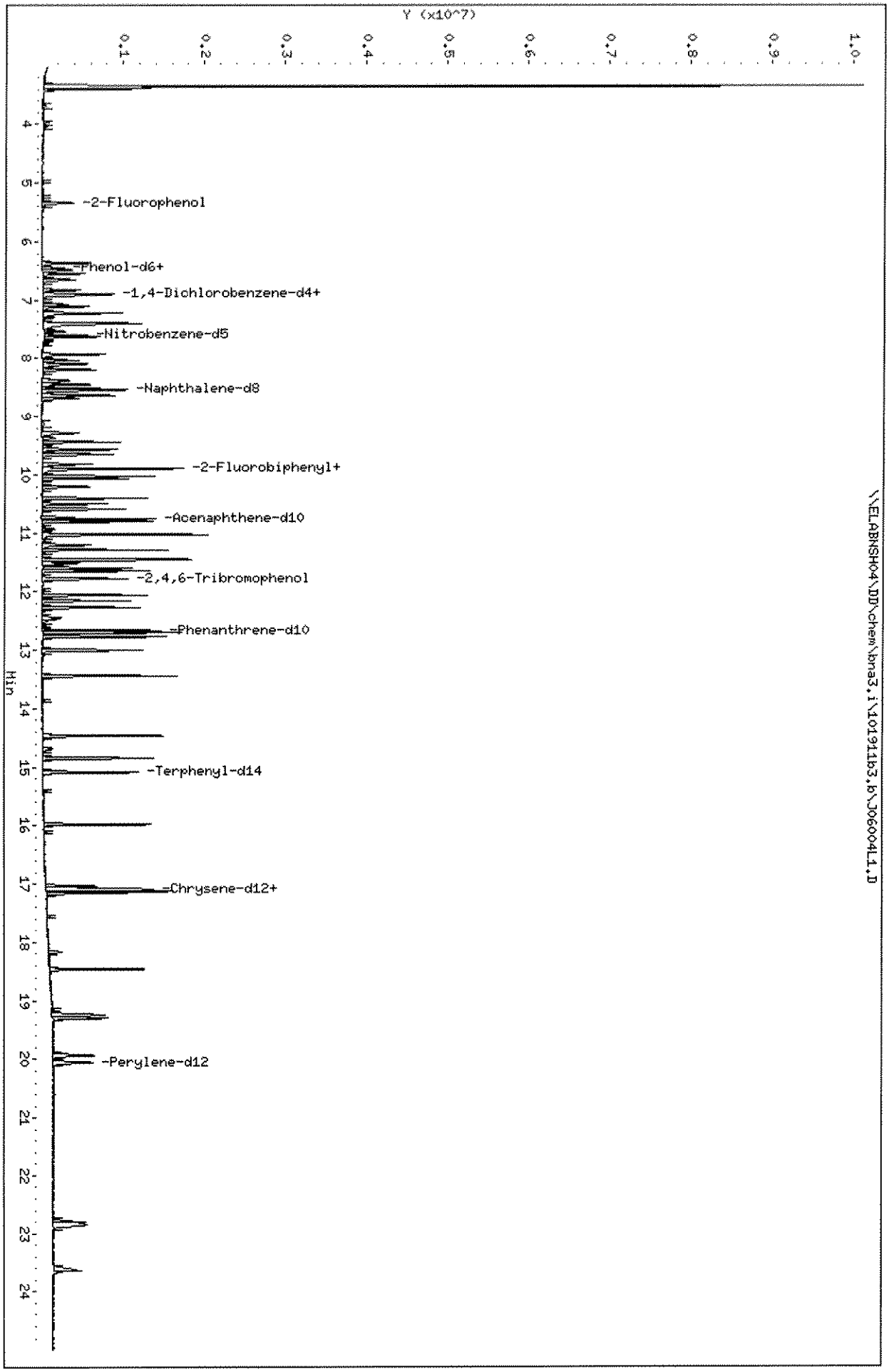
Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS ON-COLUMN (ng/ul)	FINAL (ug/L)
89 4-Nitroaniline	138	11.513	11.504	(1.070)	130806	32.3826	32.38
96 2,3,4,6-Tetrachlorophenol	232	11.203	11.130	(1.041)	147992	35.8933	35.89
100 1,1'-Biphenyl	154	10.027	10.030	(0.932)	682276	38.2711	38.27
* 102 Phenanthrene-d10	188	12.661	12.664	(1.000)	892000	40.0000	
103 1,2-Diphenylhydrazine	77	11.641	11.643	(0.919)	694370	36.6020	36.60
104 Carbazole	167	12.998	12.989	(1.027)	919160	39.4664	39.47
105 4,6-Dinitro-2-methylphenol	198	11.555	11.536	(0.913)	71443	22.0316	22.03
106 N-Nitrosodiphenylamine	169	11.598	11.601	(0.916)	460195	30.6686	30.67
$ 107 2,4,6-Tribromophenol	330	11.774	11.766	(0.930)	201120	82.0872	82.09
108 4-Bromophenyl-phenylether	248	12.057	12.060	(0.952)	238560	46.8219	46.82
109 Hexachlorobenzene	284	12.154	12.145	(0.960)	241410	44.3013	44.30
110 Pentachlorophenol	266	12.442	12.413	(0.983)	78670	21.7351	21.74
111 Phenanthrene	178	12.693	12.696	(1.003)	1038480	43.2847	43.28
112 Anthracene	178	12.763	12.765	(1.008)	1056060	43.3405	43.34
115 Di-n-butylphthalate	149	13.436	13.444	(1.061)	1183546	44.9012	44.90
116 Fluoranthene	202	14.461	14.453	(1.142)	1137217	41.3315	41.33
129 Atrazine	200	12.266	12.268	(0.969)	225431	43.1147	43.11
* 132 Chrysene-d12	240	17.100	17.092	(1.000)	661564	40.0000	
133 Benzidine	184	14.680	14.683	(0.858)	95506	9.00450	9.004(a)
134 Pyrene	202	14.841	14.838	(0.868)	1142011	59.3325	59.33
$ 135 Terphenyl-d14	244	15.086	15.084	(0.882)	667741	54.1040	54.10
136 Butylbenzylphthalate	149	15.973	15.986	(0.934)	453441	53.4450	53.44
137 3,3'-Dichlorobenzidine	252	17.031	17.028	(0.996)	260331	38.7004	38.70
138 Benzo(a)anthracene	228	17.074	17.076	(0.998)	843261	45.5517	45.55
139 Chrysene	228	17.154	17.146	(1.003)	761463	43.9371	43.94
140 Bis(2-ethylhexyl)phthalate	149	17.122	17.135	(1.001)	559803	49.8261	49.83
* 154 Perylene-d12	264	20.049	20.036	(1.000)	484795	40.0000	
155 Di-n-octylphthalate	149	18.463	18.476	(0.921)	865051	59.2642	59.26
156 Benzo(b)fluoranthene	252	19.237	19.240	(0.960)	610560	46.0609	46.06
157 Benzo(k)fluoranthene	252	19.296	19.288	(0.962)	654197	48.7278	48.73
158 Benzo(a)pyrene	252	19.937	19.913	(0.994)	535176	42.2206	42.22
159 Indeno(1,2,3-cd)pyrene	276	22.811	22.766	(1.138)	598929	47.6076	47.61(M)
160 Dibenz(a,h)anthracene	278	22.854	22.824	(1.140)	510112	41.9013	41.90
161 Benzo(g,h,i)perylene	276	23.618	23.572	(1.178)	507615	40.5394	40.54

QC Flag Legend

a - Target compound detected but, quantitated amount
    Below Limit Of Quantitation(BLOQ).
Q - Qualifier signal failed the ratio test.
R - Spike/Surrogate failed recovery limits.
M - Compound response manually integrated.
H - Operator selected an alternate compound hit.

Data File: \\ELABNSH04\DD\chem\bna3,i\101911b3,b\J06004L1,D
Date : 19-OCT-2011 22:51
Client ID: 1J06004-BS1
Sample Info: 1J06004-BS1;1000;1000;UG/L;06-OCT-2011
Volume Injected (uL): 0.5
Column phase: fused silica

Instrument: bna3,i
Operator: RDM
Column diameter: 0.25



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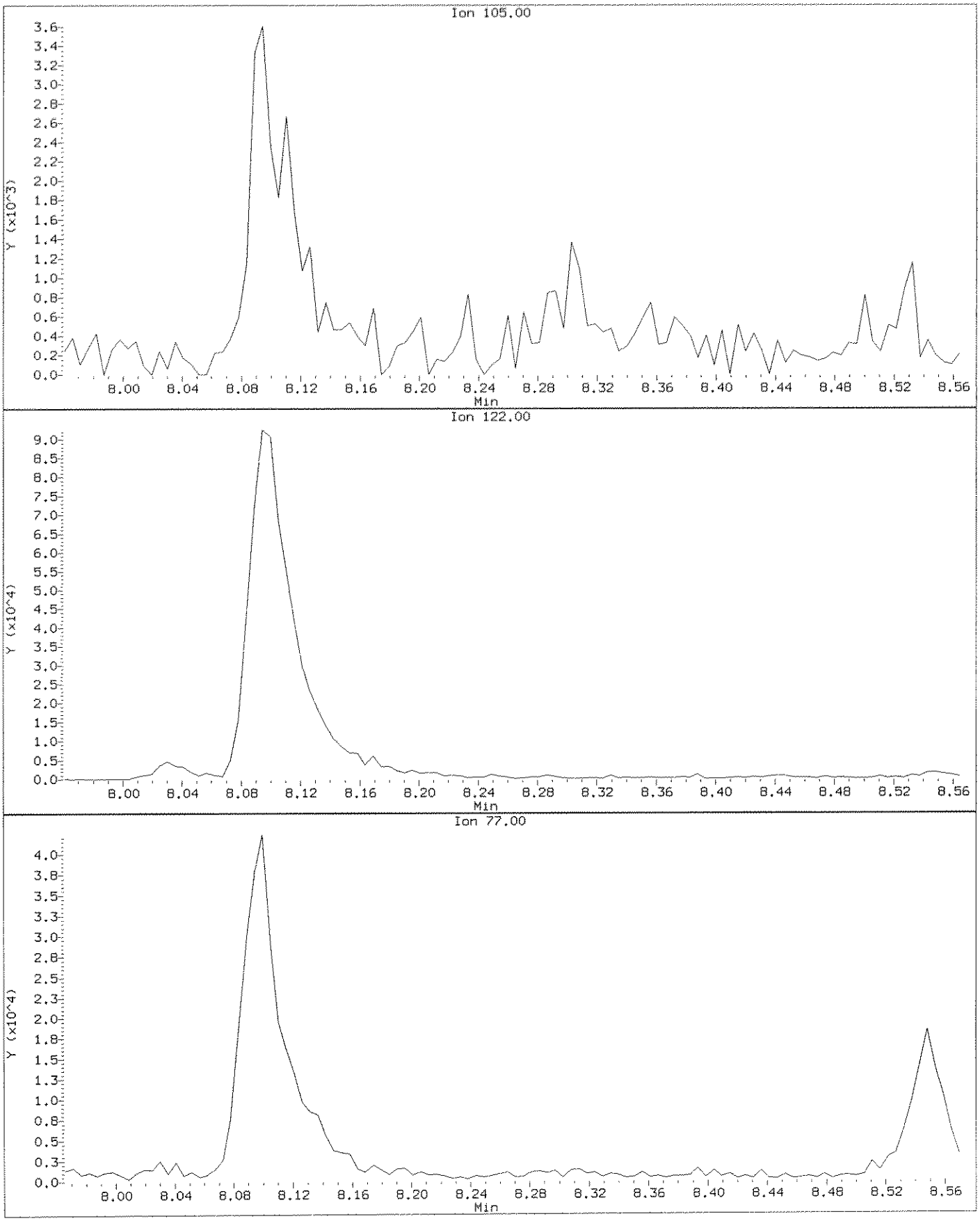
Injection Date: 19-OCT-2011 22:51
Instrument: bna3.i
Client Sample ID: 1J06004-BS1

Compound: Benzoic acid
CAS Number: 65-85-0



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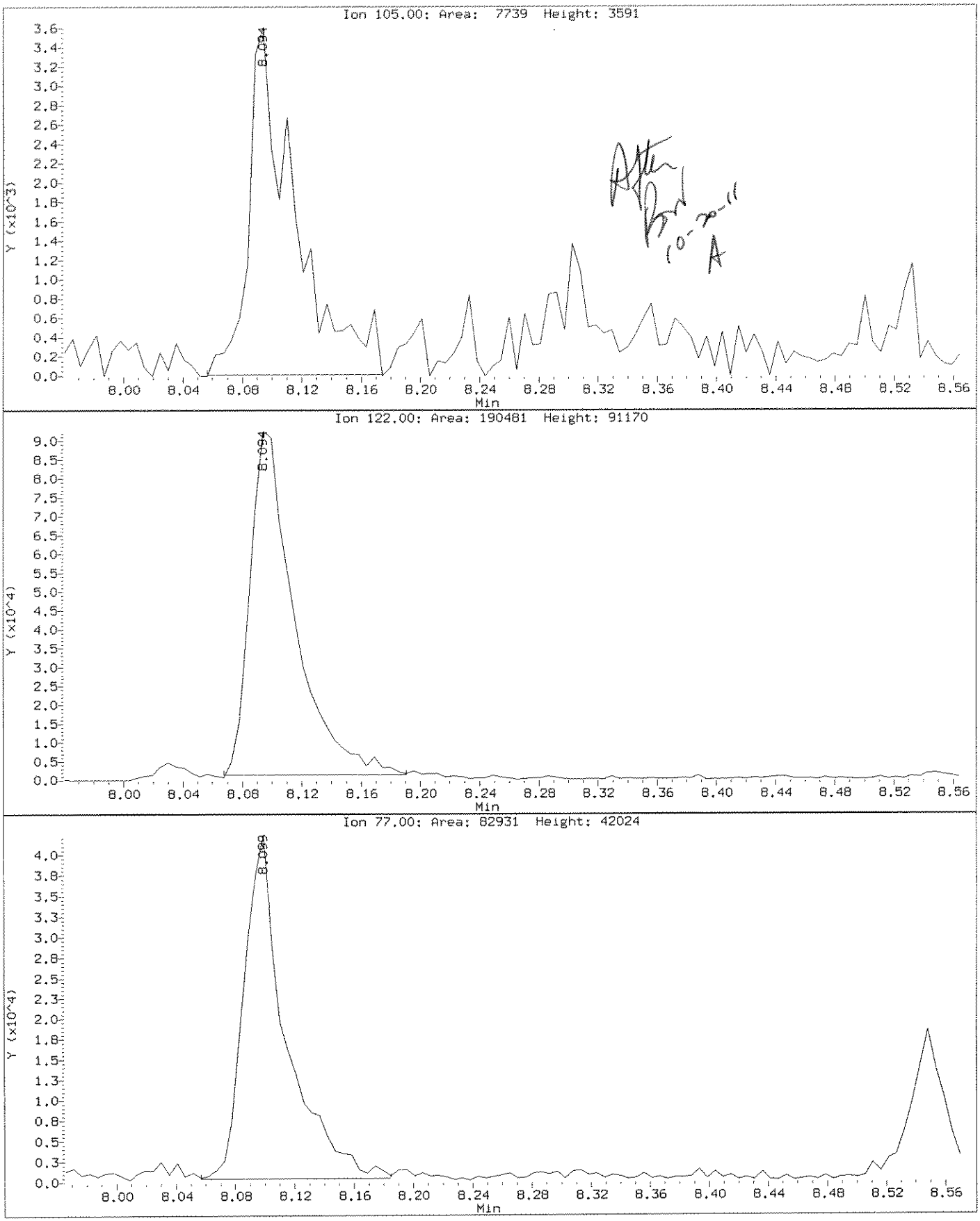
Instrument: bna3.i
Client Sample ID: 1J06004-BS1

Compound: Benzoic acid
CAS Number: 65-85-0



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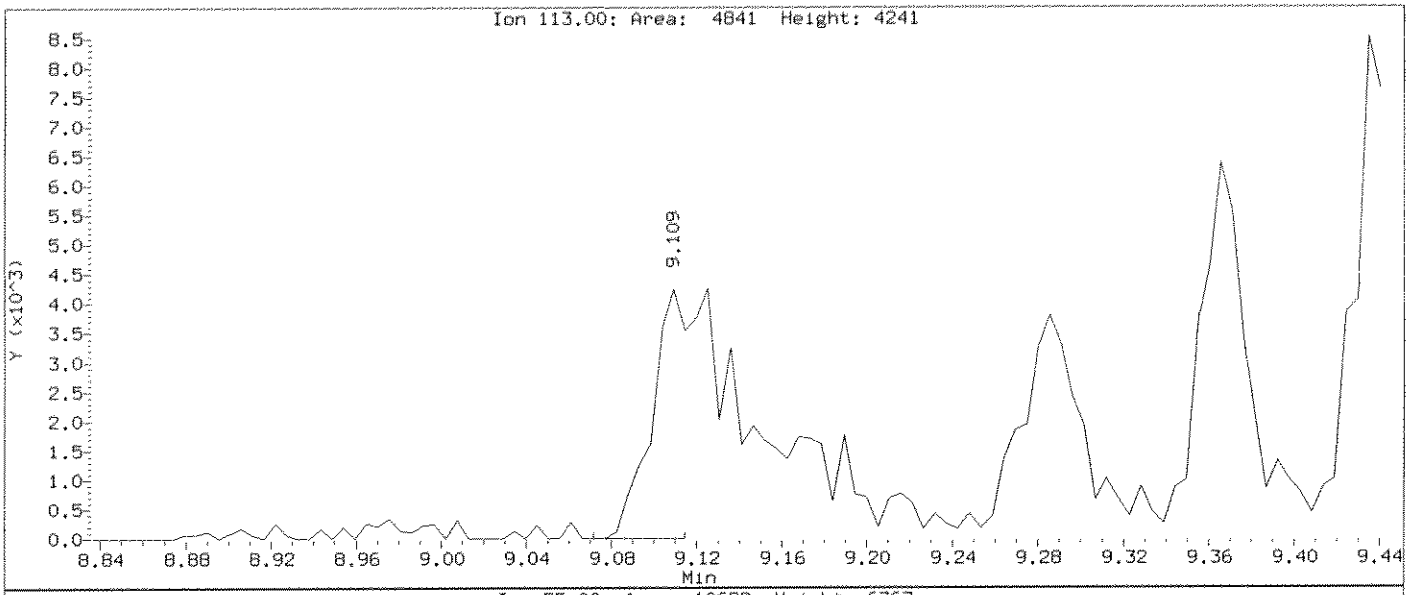
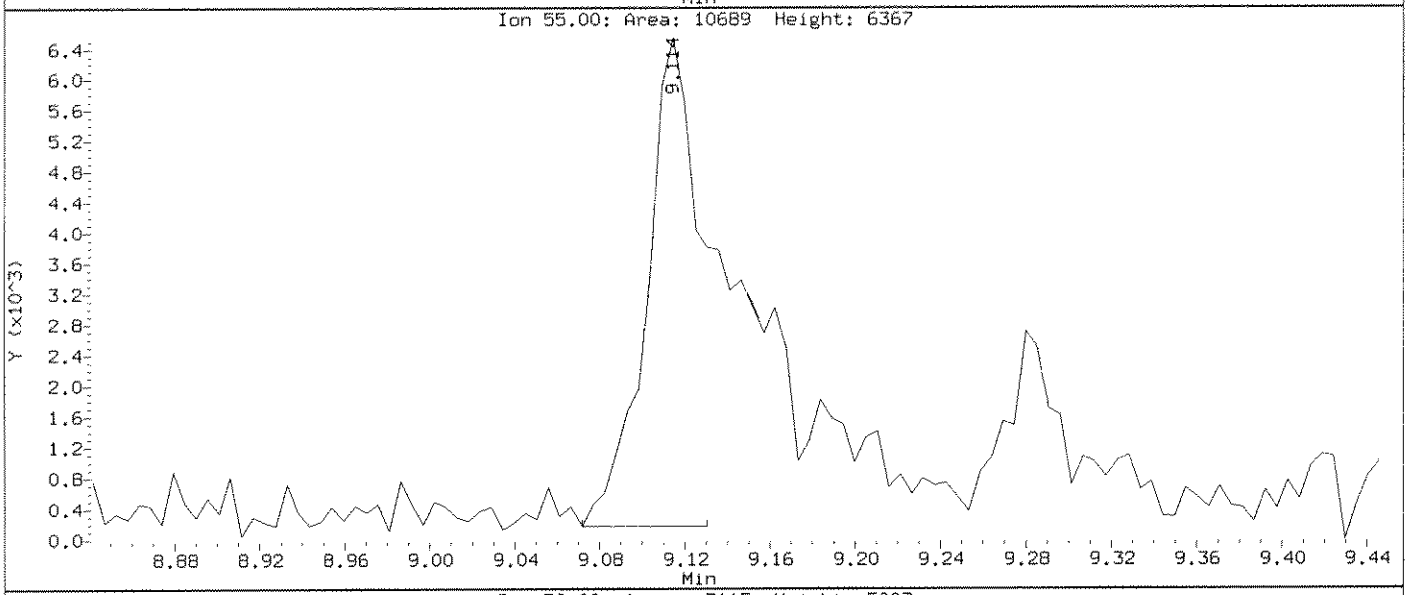
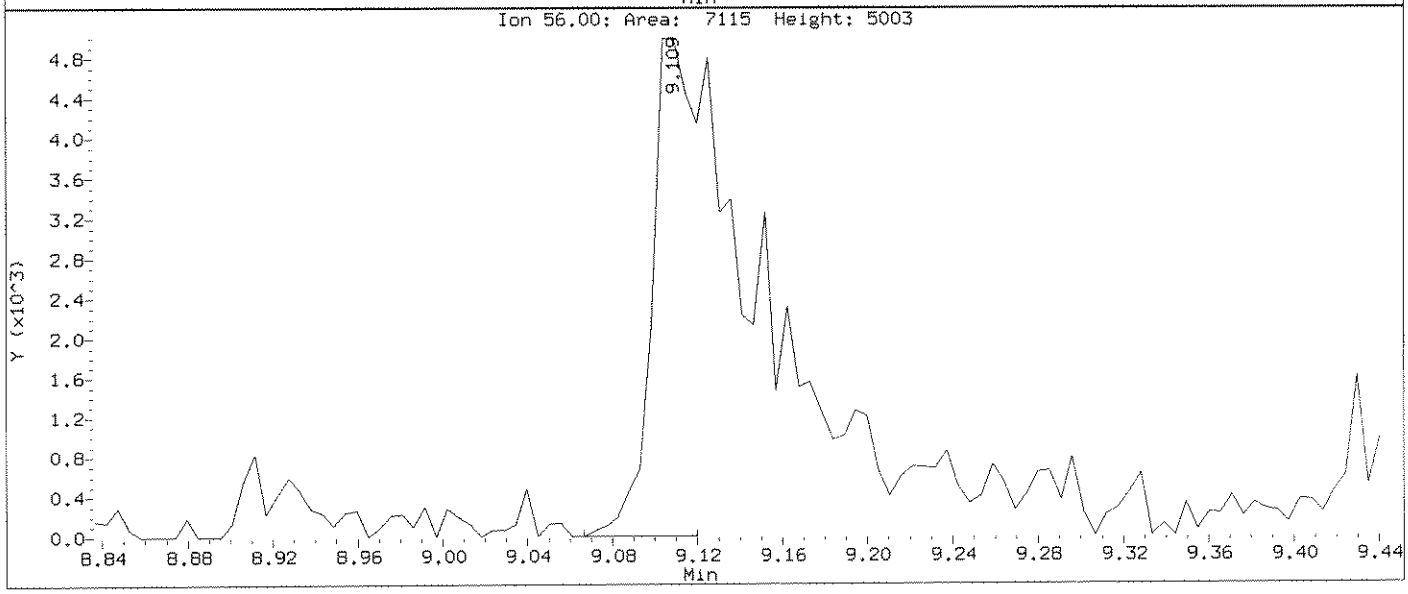
Instrument: bna3.i
Client Sample ID: 1J06004-BS1

Compound: Caprolactam
CAS Number: 105-60-2







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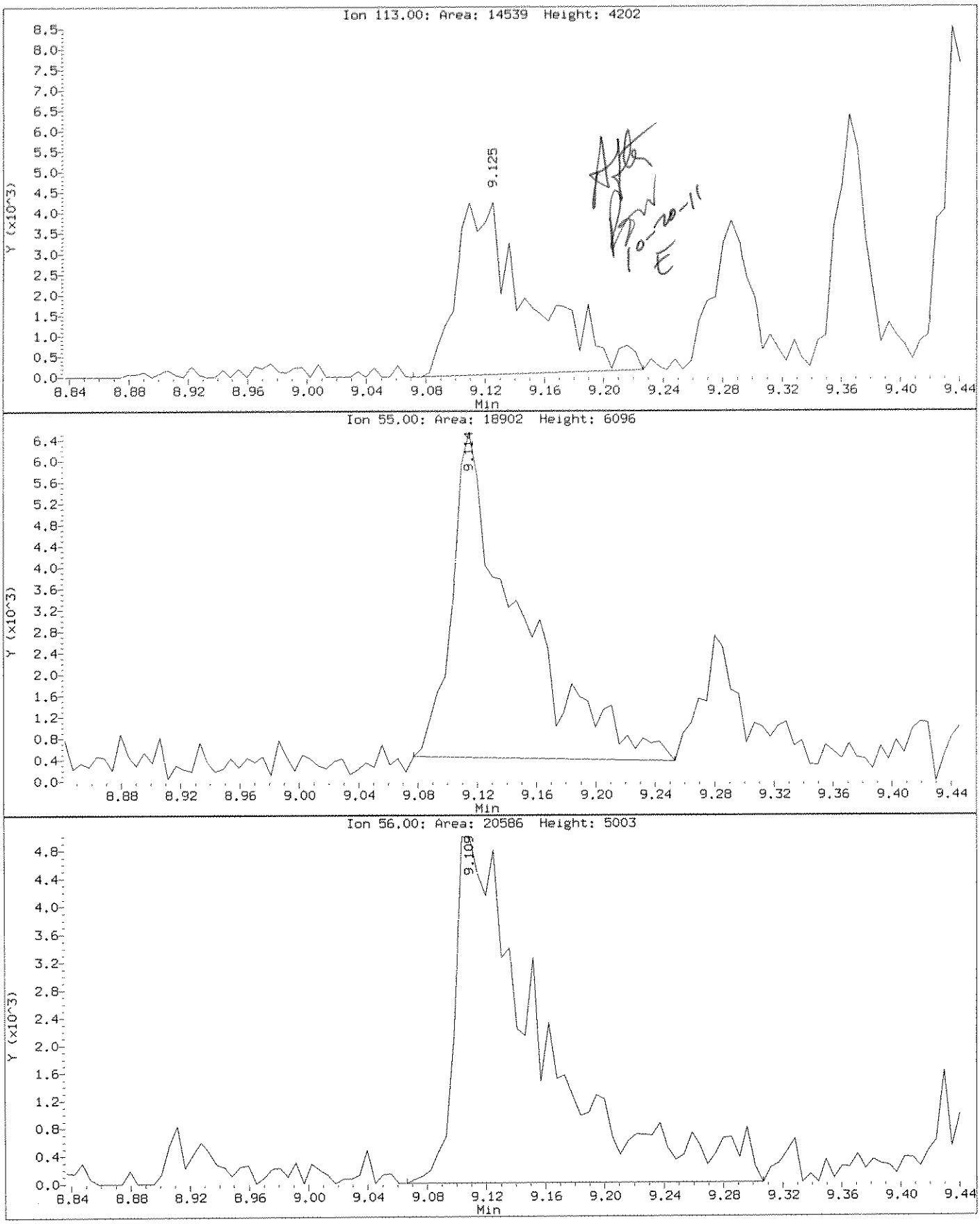
Injection Date: 19-OCT-2011 22:51
Instrument: bna3.i
Client Sample ID: 1J06004-BS1

Compound: Caprolactam
CAS Number: 105-60-2



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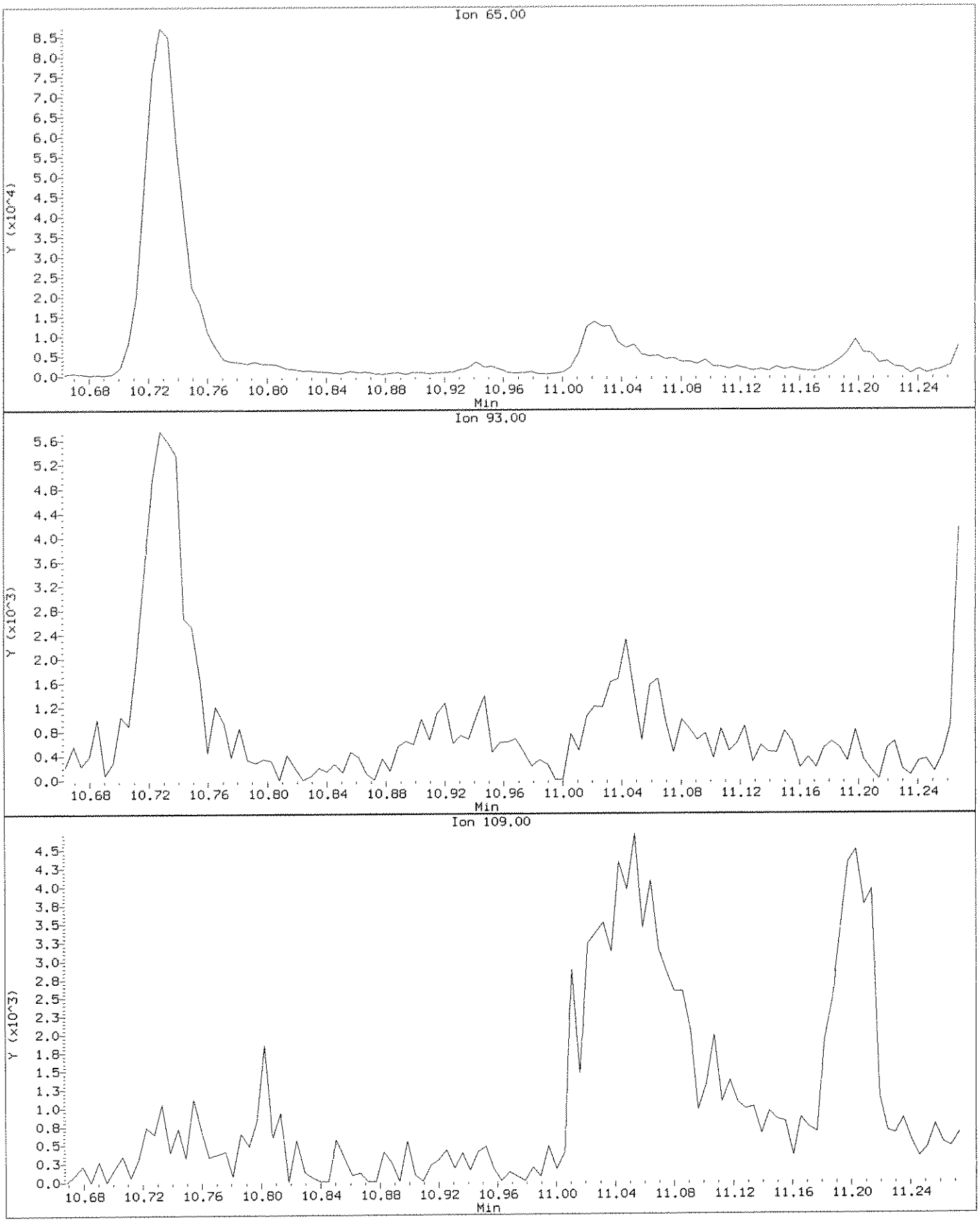
Injection Date: 19-OCT-2011 22:51
Instrument: bna3.i
Client Sample ID: 1J06004-B51

Compound: 4-Nitrophenol
CAS Number: 100-02-7



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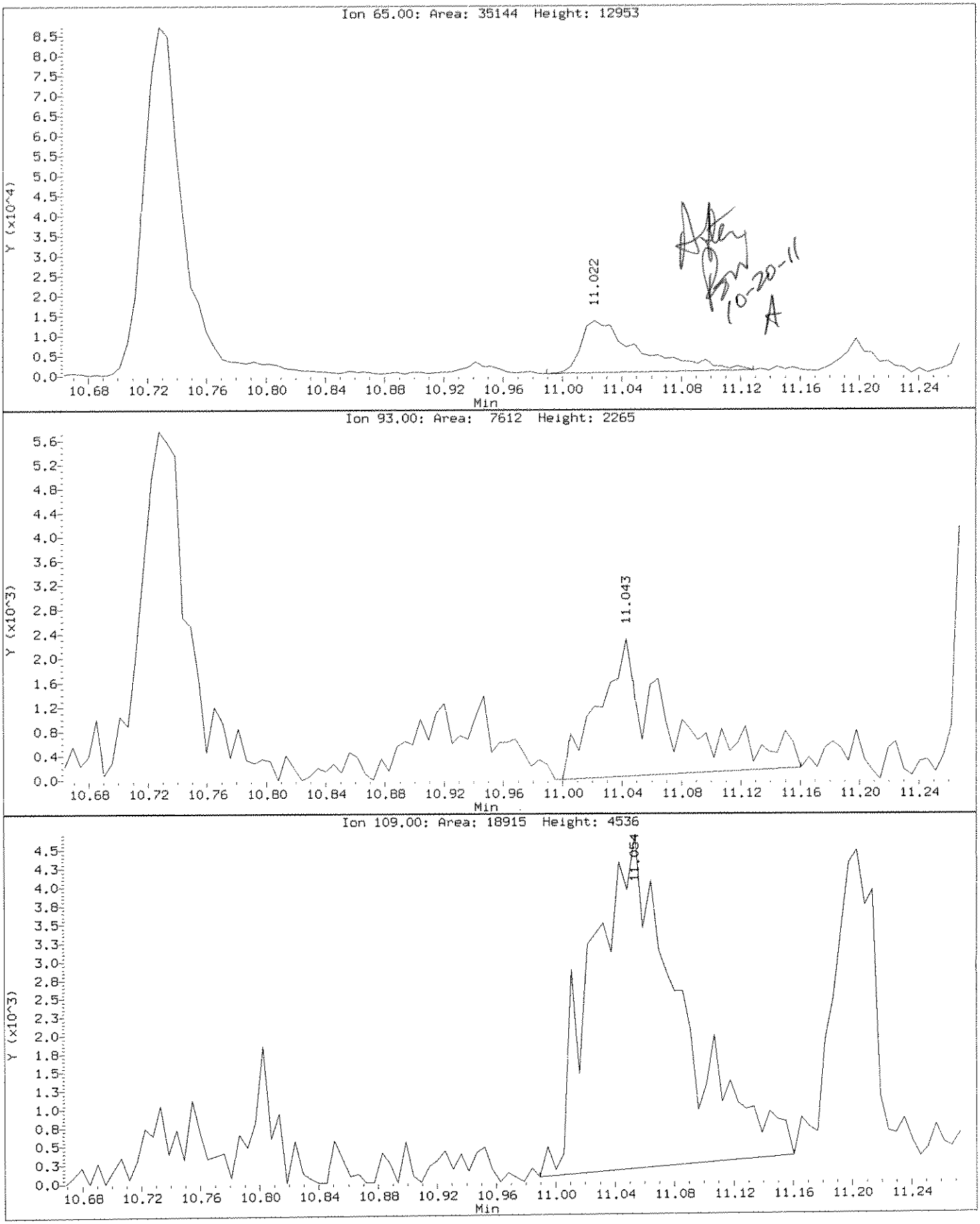
Injection Date: 19-OCT-2011 22:51
Instrument: bna3.i
Client Sample ID: 1J06004-B51

Compound: 4-Nitrophenol
CAS Number: 100-02-7



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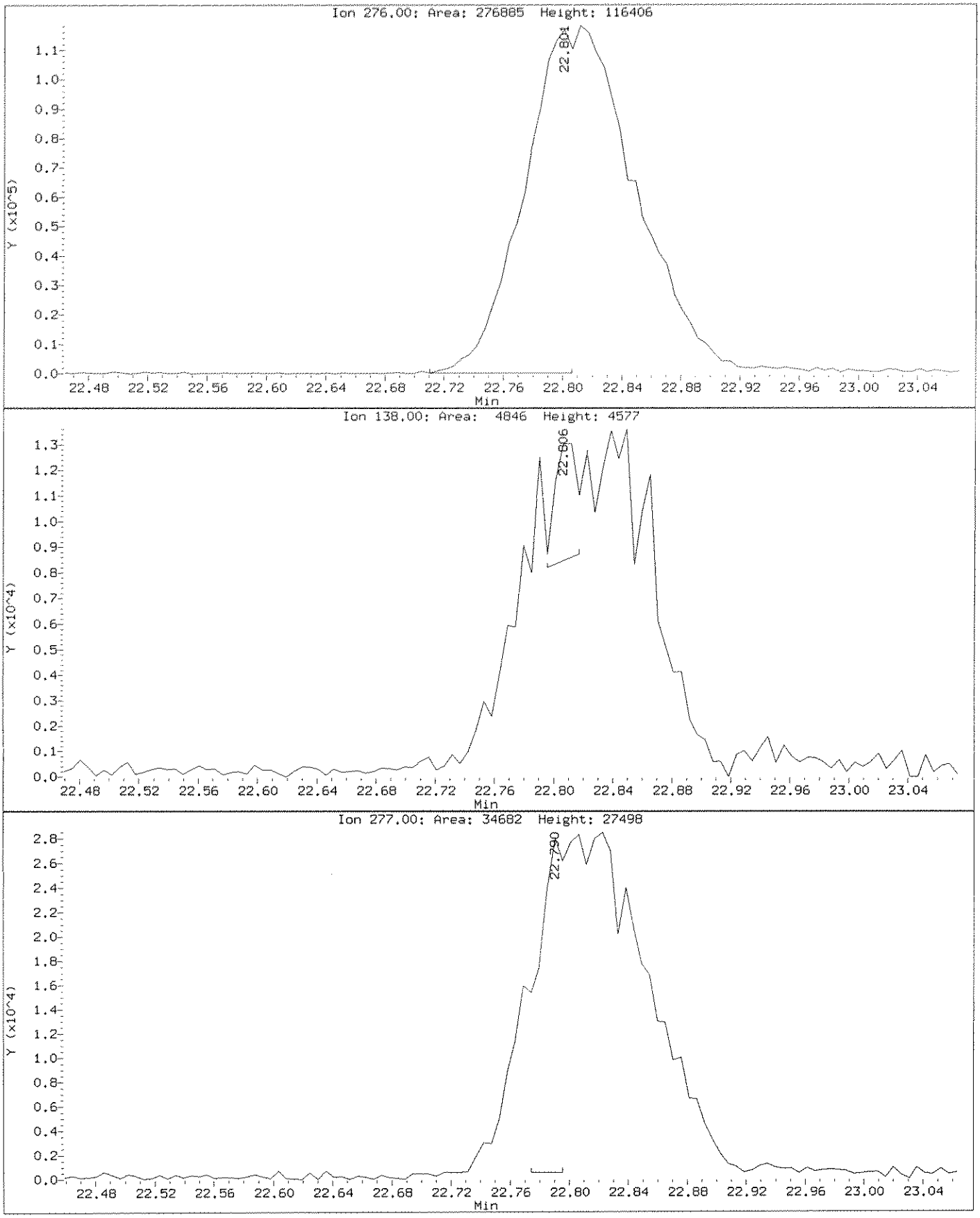
Injection Date: 19-OCT-2011 22:51
Instrument: bna3.i
Client Sample ID: 1J06004-BS1

Compound: Indeno(1,2,3-cd)pyrene
CAS Number: 193-39-5



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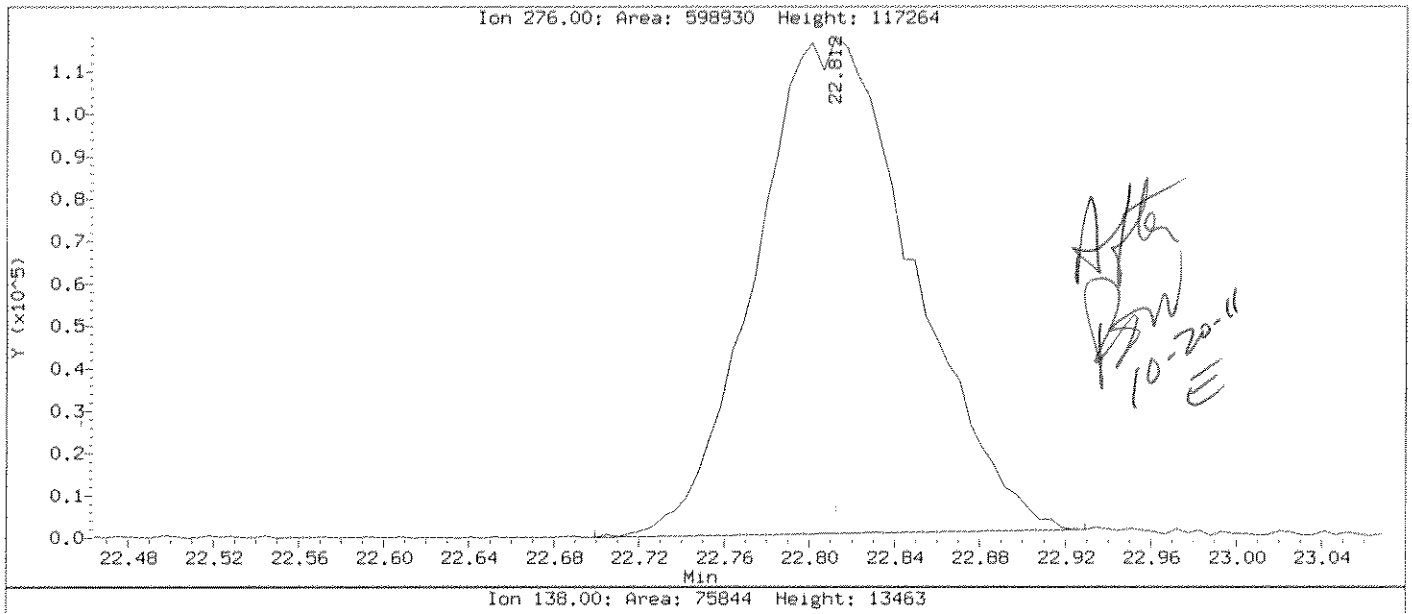
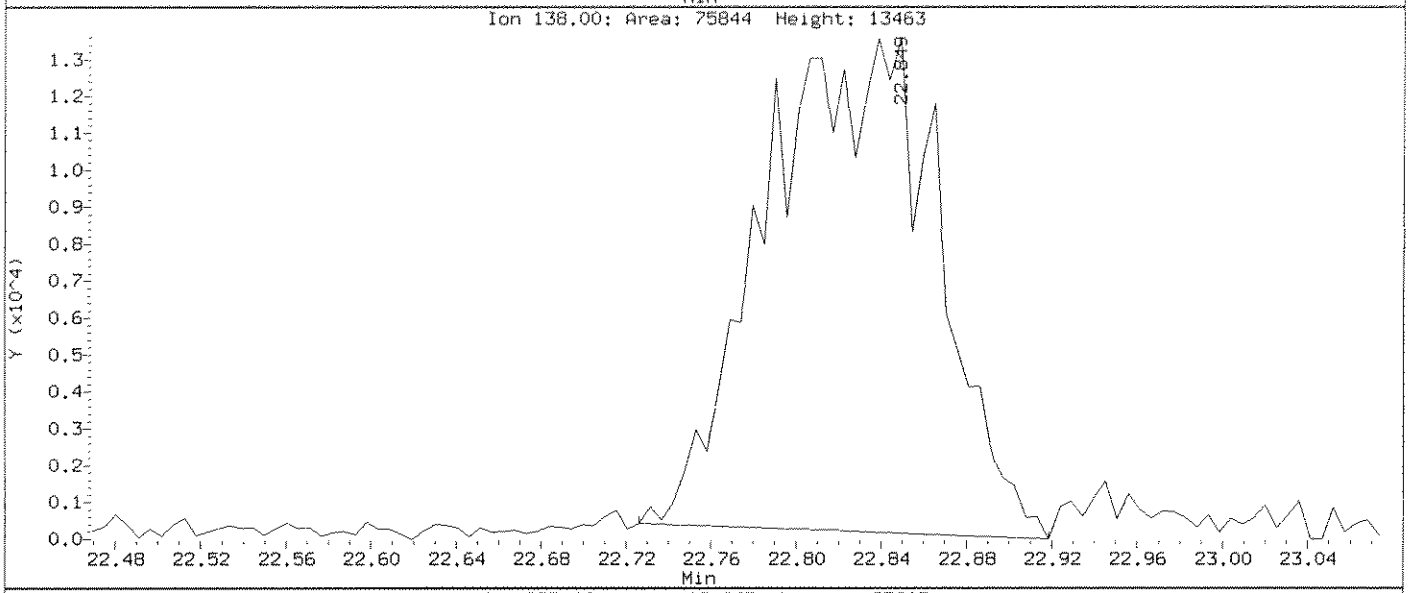
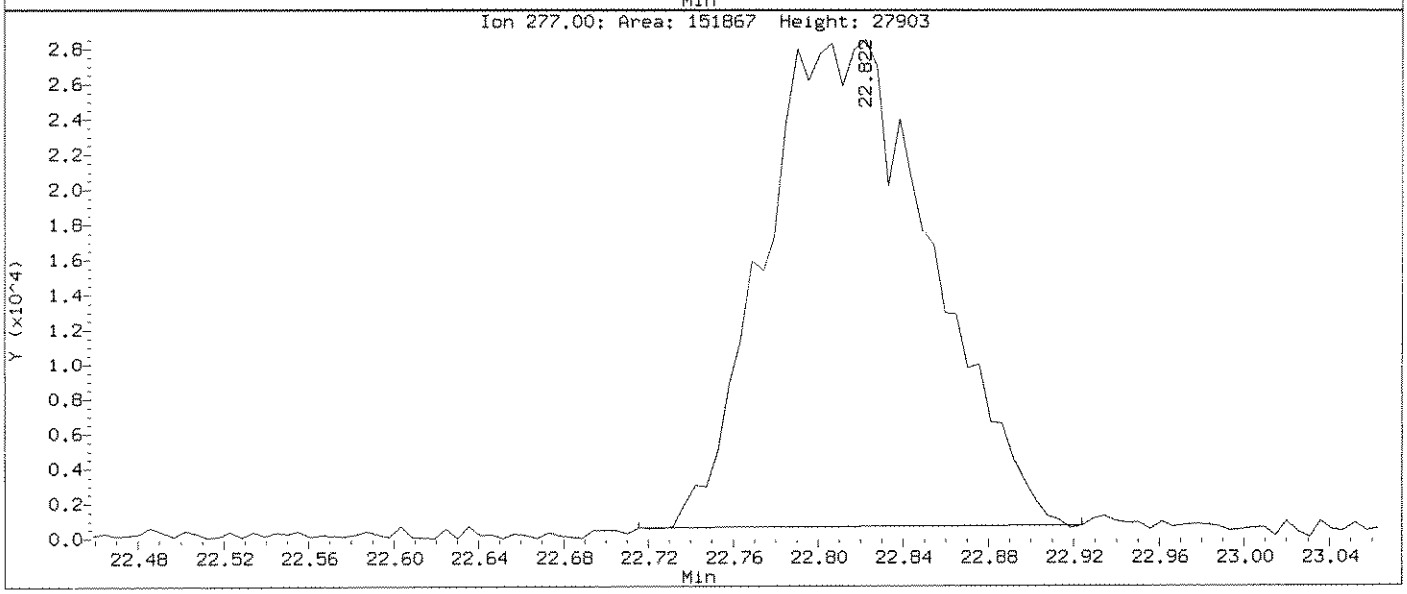
Injection Date: 19-OCT-2011 22:51
Instrument: bna3.i
Client Sample ID: 1J06004-BS1

Compound: Indeno(1,2,3-cd)pyrene
CAS Number: 193-39-5



After
10-20-11





Data File: \\ELABNSH04\DD\chem\bna3.i\101911b3.b\1000309R.D
Report Date: 20-Oct-2011 10:22

Laboratory Name

Data file : \\ELABNSH04\DD\chem\bna3.i\101911b3.b\1000309R.D
Lab Smp Id: 1110003-09 Client Smp ID: FLC-5-MW03-092911
Inj Date : 19-OCT-2011 23:27 MS Autotune Date: 28-JUL-1998 06:19
Operator : RDW Inst ID: bna3.i
Smp Info : 1110003-09;;1000;1000;UG/L;;14-OCT-2011
Misc Info : ;0;;;;1J14001;ppbnax.sub;
Comment :
Method : \\ELABNSH04\DD\chem\bna3.i\101911b3.b\IXBN3.m
Meth Date : 20-Oct-2011 10:20 rward Quant Type: ISTD
Cal Date : 30-APR-2011 01:58 Cal File: SEQ-CALG.D
Als bottle: 17
Dil Factor: 1.00000
Integrator: HP RTE Compound Sublist: ppbnax.sub
Target Version: 4.04
Processing Host: TARGET04_VM

Concentration Formula: Amt * DF * Uf * Vt* Vi/(Amt * Vi)

Name	Value	Description
DF	1.000	Dilution Factor
Uf	0.000	ng unit correction factor
Vt	1000.000	Volume of final extract (uL)
Vi	0.500	Volume injected (uL)
Amt	1000.000	Volume of initial extraction

10-20-11

Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS ON-COLUMN (ng/ul)	FINAL (ug/L)
* 1 1,4-Dichlorobenzene-d4	152	6.904	6.905	(1.000)	842309	40.0000	
$ 2 2-Fluorophenol	112	5.355	5.345	(0.776)	321027	13.3475	13.35(R)
$ 3 Phenol-d6	99	6.455	6.451	(0.935)	266459	8.04441	8.044(RM)
* 33 Naphthalene-d8	136	8.528	8.529	(1.000)	2954953	40.0000	
$ 34 Nitrobenzene-d5	82	7.604	7.605	(0.892)	596625	19.8167	19.82(R)
* 69 Acenaphthene-d10	164	10.766	10.762	(1.000)	1830947	40.0000	
$ 74 2-Fluorobiphenyl	172	9.901	9.896	(0.920)	1004803	17.3473	17.35(R)
* 102 Phenanthrene-d10	188	12.674	12.664	(1.000)	2586222	40.0000	
$ 107 2,4,6-Tribromophenol	330	11.781	11.766	(0.930)	248749	35.0171	35.02(R)
* 132 Chrysene-d12	240	17.118	17.092	(1.000)	2425565	40.0000	
$ 135 Terphenyl-d14	244	15.094	15.084	(0.882)	768924	16.9928	16.99(R)
* 154 Perylene-d12	264	20.083	20.036	(1.000)	1992389	40.0000	

10/20/11

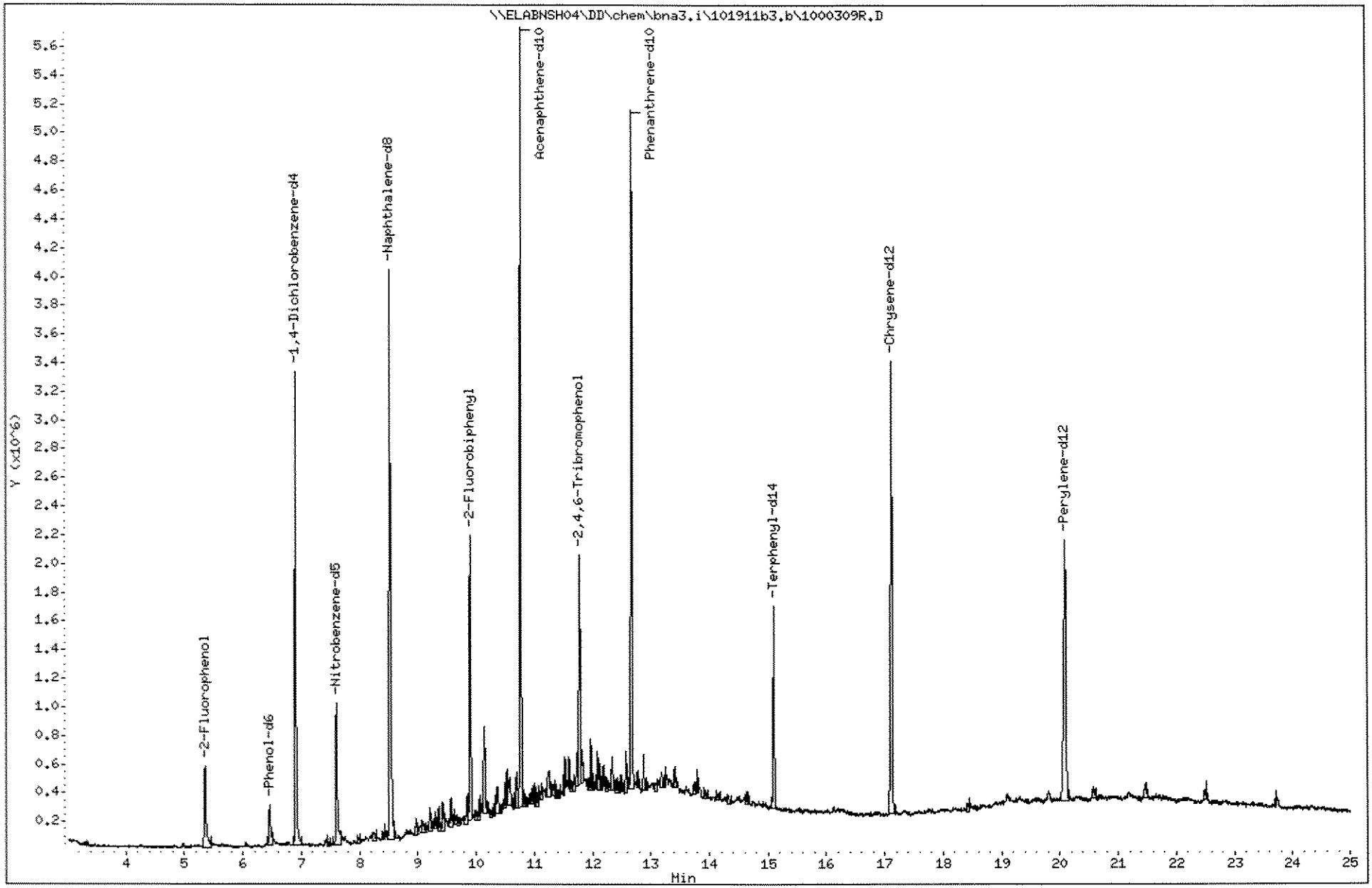
Data File: \\ELABNSH04\DD\chem\bna3.i\101911b3.b\1000309R.D
Report Date: 20-Oct-2011 10:22

QC Flag Legend

R - Spike/Surrogate failed recovery limits.
M - Compound response manually integrated.

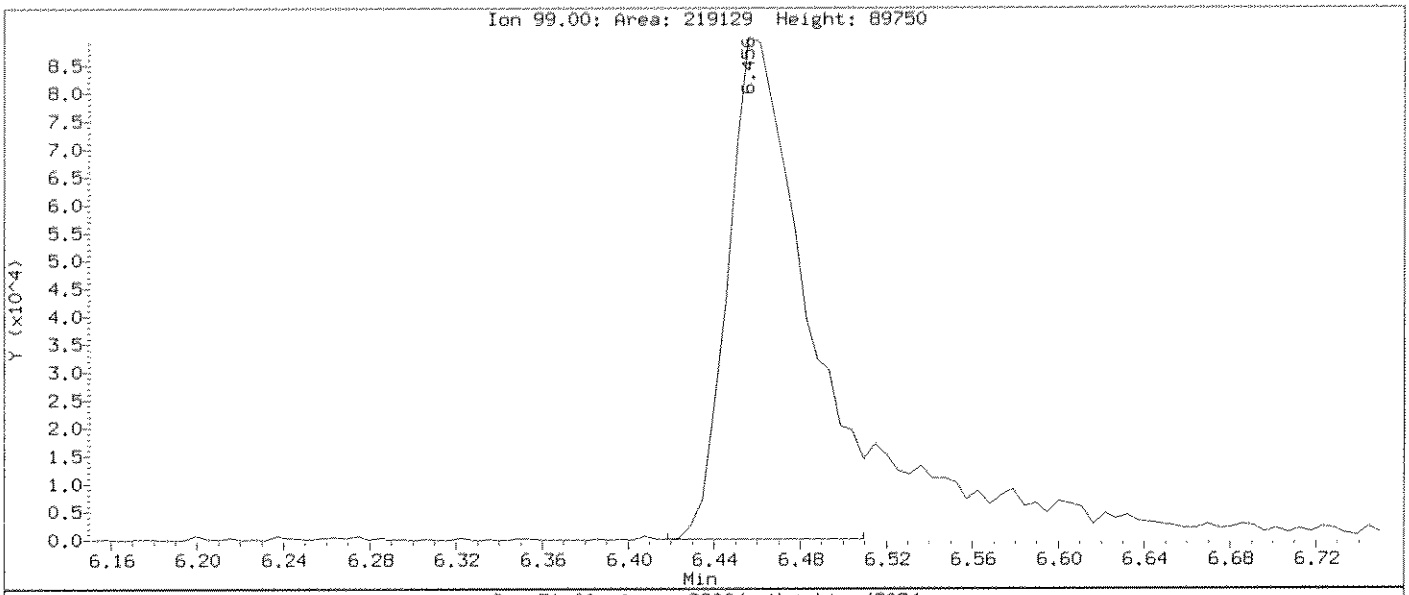
Data File: \\ELABNSH04\DD\chem\bna3.i\101911b3.b\1000309R.D
Date : 19-OCT-2011 23:27
Client ID: FLC-5-MW03-092911
Sample Info: 1110003-09;;1000;1000;UG/L;;14-OCT-2011
Volume Injected (uL): 0.5
Column phase: fused silica

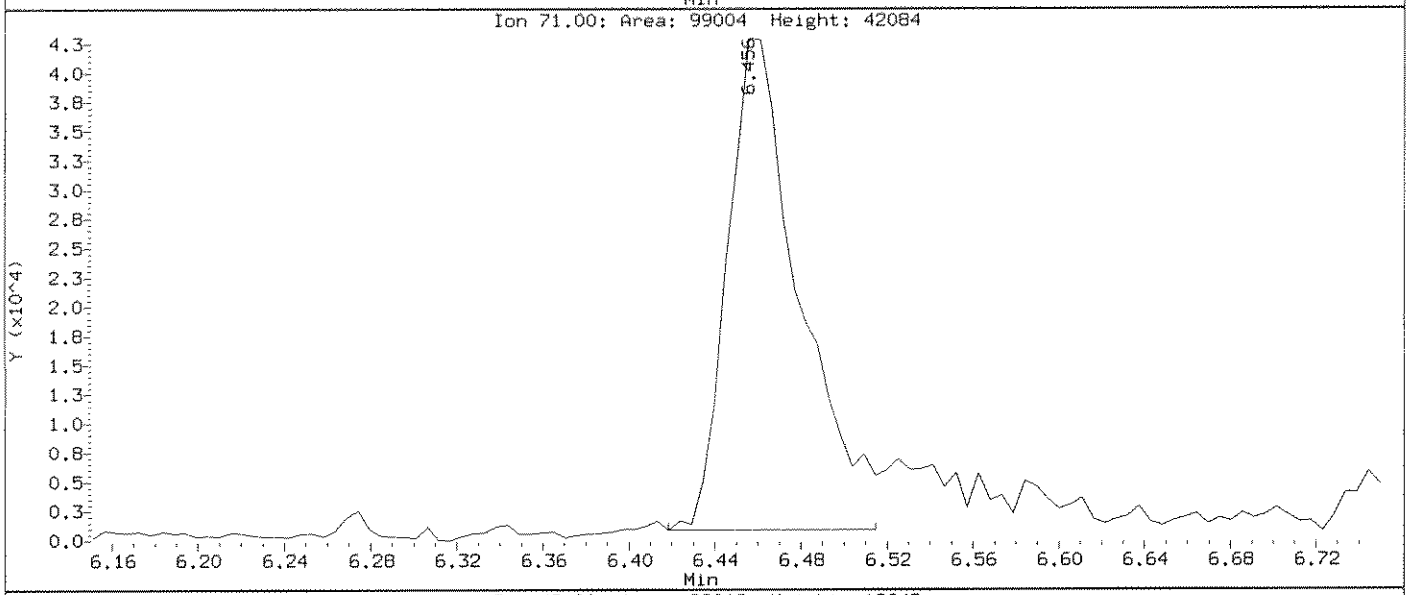
Instrument: bna3.i
Operator: RDW
Column diameter: 0.25

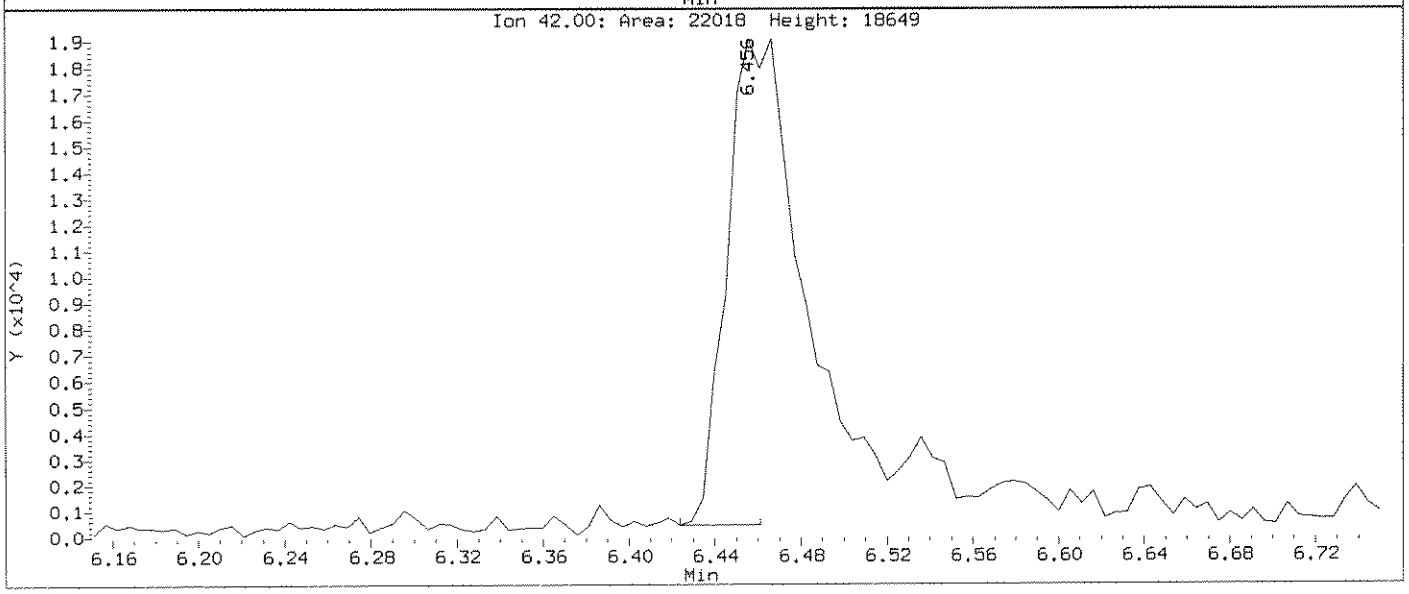


Data File: \\ELABNSH04\DD\chem\bna3.i\101911b3.b\1000309R.D
Injection Date: 19-OCT-2011 23:27
Instrument: bna3.i
Client Sample ID: FLC-5-MW03-092911

Compound: Phenol-d6
CAS Number: 13127-88-3

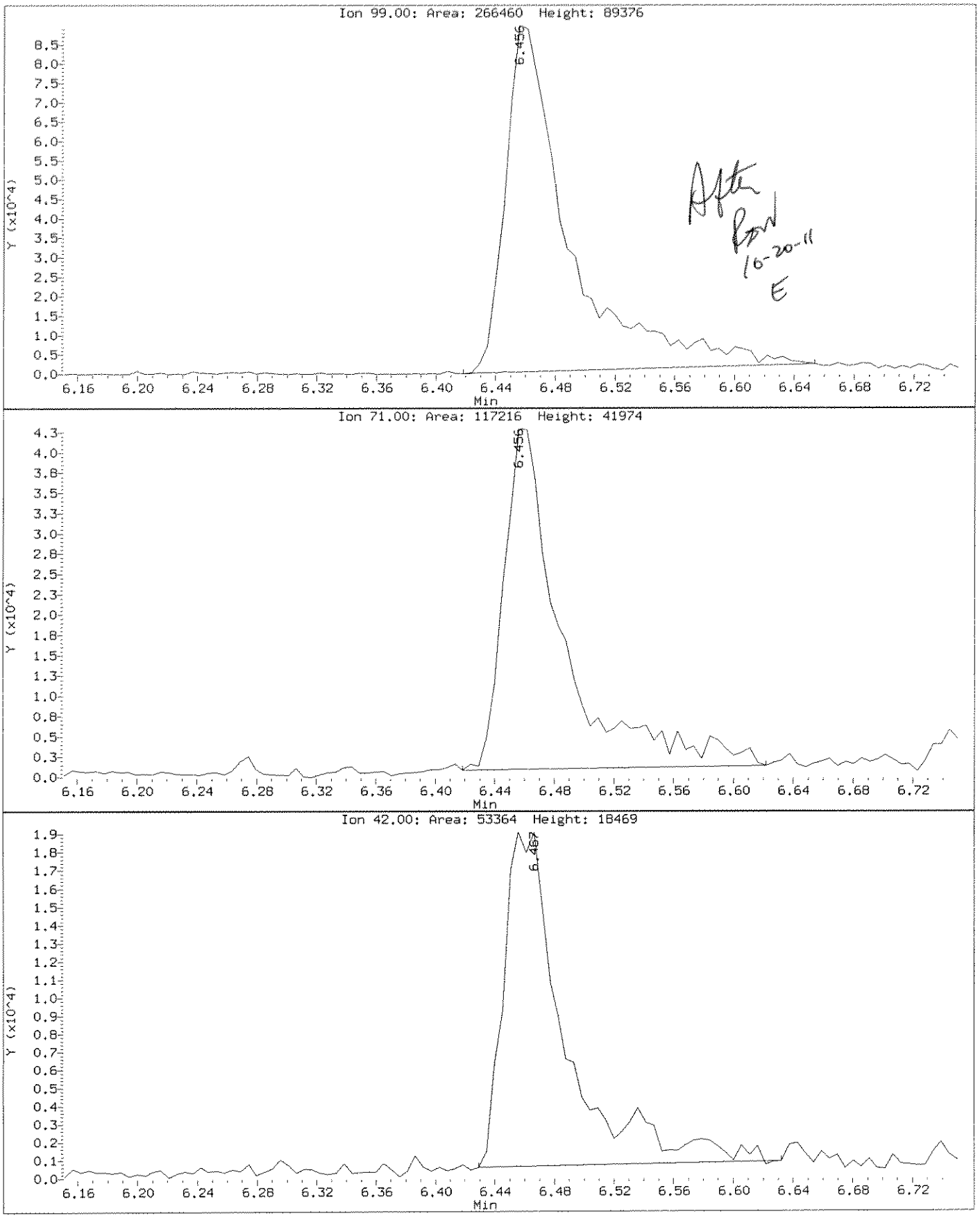






Data File: \\ELABNSHO4\DD\chem\bna3.i\101911b3.b\1000309R.D
Injection Date: 19-OCT-2011 23:27
Instrument: bna3.i
Client Sample ID: FLC-5-MW03-092911

Compound: Phenol-d6
CAS Number: 13127-88-3



Data File: \\ELABNSH04\DD\chem\bna3.i\101911b3.b\1000312R.D
Report Date: 20-Oct-2011 10:22

Laboratory Name

Data file : \\ELABNSH04\DD\chem\bna3.i\101911b3.b\1000312R.D
Lab Smp Id: 1110003-12 Client Smp ID: FLC-5-MW01-092911
Inj Date : 20-OCT-2011 00:02 MS Autotune Date: 28-JUL-1998 06:19
Operator : RDW Inst ID: bna3.i
Smp Info : 1110003-12;;1000;1000;UG/L;;14-OCT-2011
Misc Info : ;0;;;;1J14001;ppbnax.sub;
Comment :
Method : \\ELABNSH04\DD\chem\bna3.i\101911b3.b\IXBN3.m
Meth Date : 20-Oct-2011 10:20 rward Quant Type: ISTD
Cal Date : 30-APR-2011 01:58 Cal File: SEQ-CALG.D
Als bottle: 18
Dil Factor: 1.00000
Integrator: HP RTE Compound Sublist: ppbnax.sub
Target Version: 4.04
Processing Host: TARGET04_VM

Concentration Formula: Amt * DF * Uf * Vt* Vi/(Amt * Vi)

Name	Value	Description
DF	1.000	Dilution Factor
Uf	0.000	ng unit correction factor
Vt	1000.000	Volume of final extract (uL)
Vi	0.500	Volume injected (uL)
Amt	1000.000	Volume of initial extraction

10-20-11

Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS ON-COLUMN (ng/ul)	FINAL (ug/L)
* 1 1,4-Dichlorobenzene-d4	152	6.900	6.905	(1.000)	722599	40.0000	
$ 2 2-Fluorophenol	112	5.350	5.345	(0.775)	431675	20.9213	20.92
$ 3 Phenol-d6	99	6.467	6.451	(0.937)	367235	12.9236	12.92
* 33 Naphthalene-d8	136	8.524	8.529	(1.000)	2434982	40.0000	
$ 34 Nitrobenzene-d5	82	7.605	7.605	(0.892)	964751	38.8865	38.89
51 Naphthalene	128	8.550	8.556	(1.003)	42912	0.70783	0.7078(a)
56 1-Methylnaphthalene	141	9.565	9.565	(1.122)	179830	5.03025	5.030
* 69 Acenaphthene-d10	164	10.767	10.762	(1.000)	1477717	40.0000	
$ 74 2-Fluorobiphenyl	172	9.897	9.896	(0.919)	1663224	35.5784	35.58
80 Acenaphthene	153	10.805	10.805	(1.003)	80729	1.96805	1.968(a)
88 Fluorene	166	11.462	11.456	(1.064)	39026	0.78981	0.7898(a)
* 102 Phenanthrene-d10	188	12.680	12.664	(1.000)	2110807	40.0000	
$ 107 2,4,6-Tribromophenol	330	11.798	11.766	(0.930)	434425	74.9292	74.93
* 132 Chrysene-d12	240	17.135	17.092	(1.000)	1860583	40.0000	

10/20/11

Data File: \\ELABNSH04\DD\chem\bna3.i\101911b3.b\1000312R.D
Report Date: 20-Oct-2011 10:22

Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS ON-COLUMN (ng/ul)	FINAL (ug/L)
$ 135 Terphenyl-d14	244	15.110	15.084	(0.882)	997997	28.7524	28.75
* 154 Perylene-d12	264	20.100	20.036	(1.000)	1679533	40.0000	

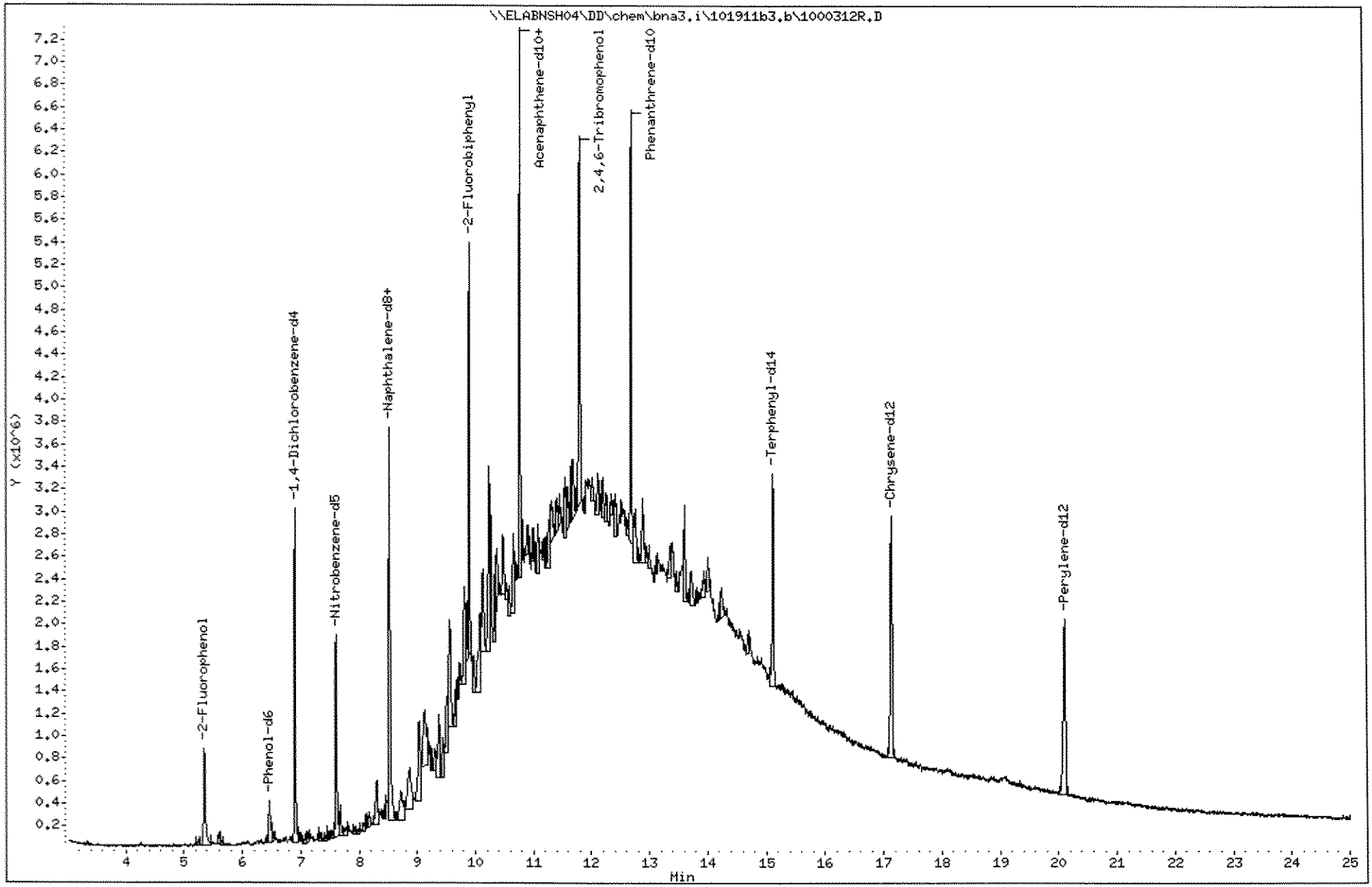
QC Flag Legend

a - Target compound detected but, quantitated amount
Below Limit Of Quantitation(BLOQ).

Data File: \\ELABNSH04\DD\chem\bna3.i\101911b3.b\1000312R.D
Date : 20-OCT-2011 00:02
Client ID: FLC-5-MW01-092911
Sample Info: 1110003-12;;1000;1000;UG/L;;14-OCT-2011
Volume Injected (uL): 0.5
Column phase: fused silica

Instrument: bna3.i

Operator: RDW
Column diameter: 0.25



Data File: \\ELABNSH04\DD\chem\bna3.i\101911b3.b\1000312R.D

Date : 20-OCT-2011 00:02

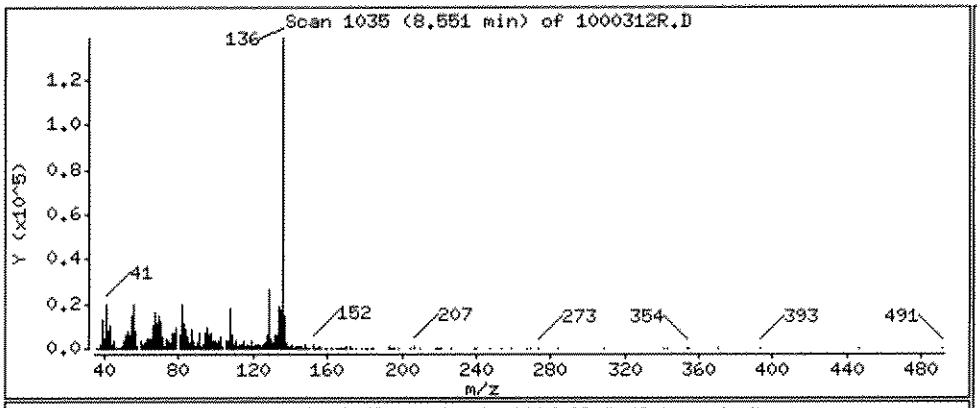
Client ID: FLC-5-MW01-092911 | Instrument: bna3.i

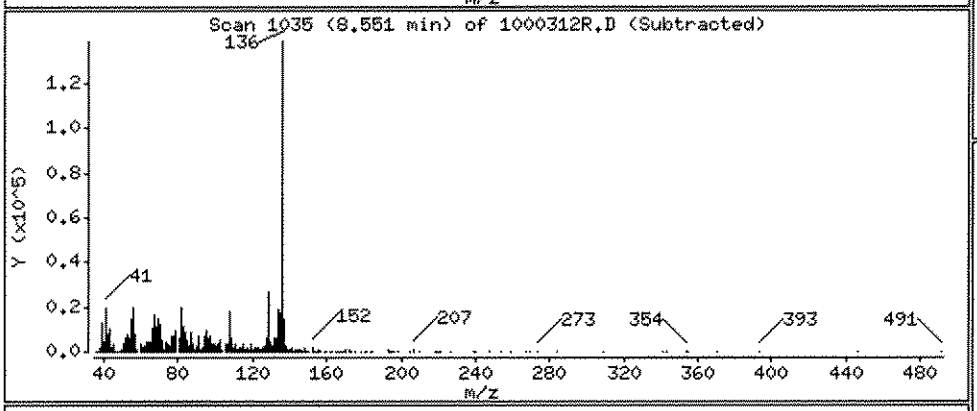
Sample Info: 1110003-12;;1000;1000;UG/L;;14-OCT-2011

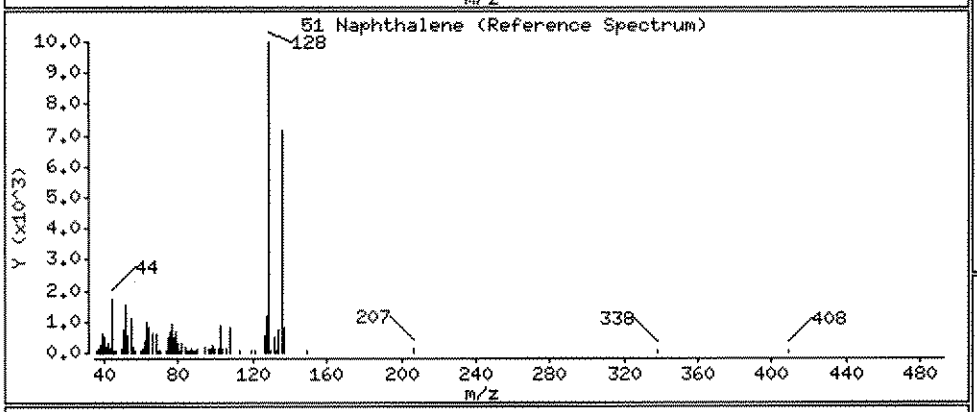
Volume Injected (uL): 0.5 | Operator: RDW

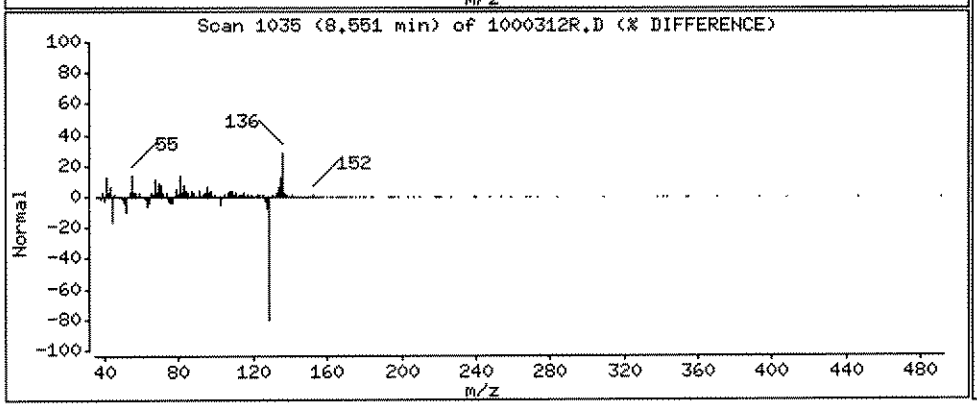
Column phase: fused silica | Column diameter: 0.25

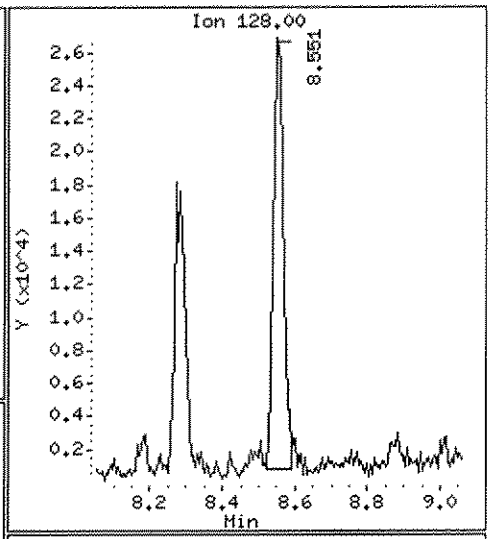
51 Naphthalene | Concentration: 0.7078 ug/L

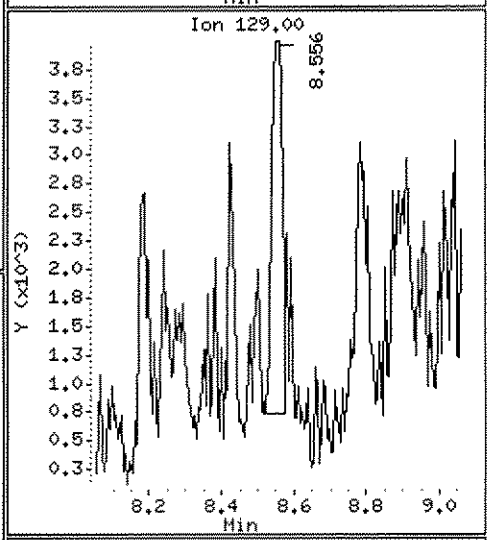


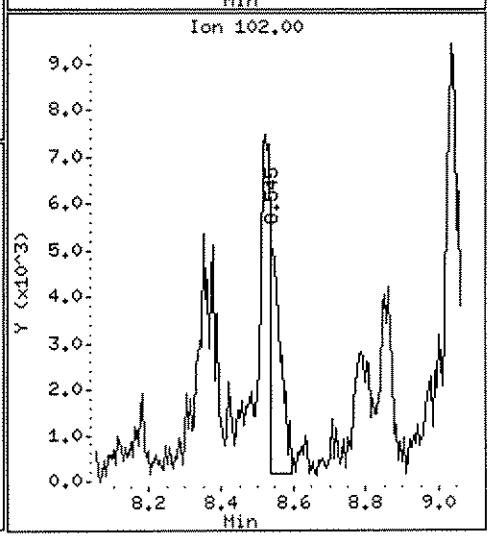












Data File: \\ELABNSH04\DD\chem\bna3.i\101911b3.b\1000312R.D

Date : 20-OCT-2011 00:02

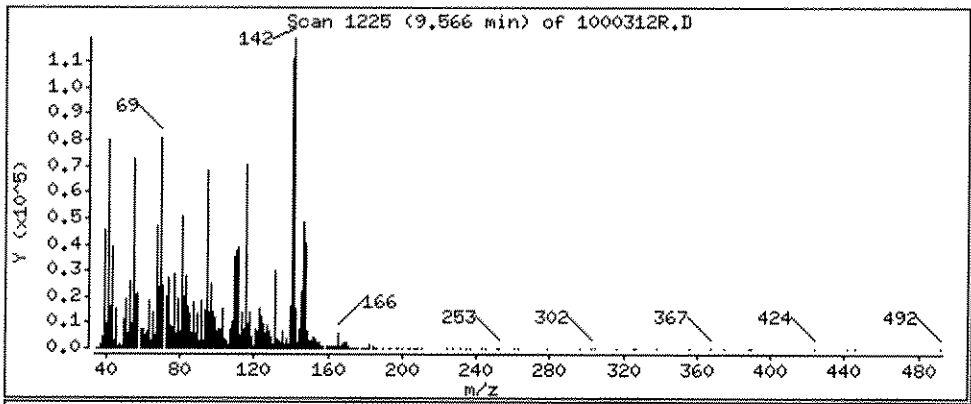
Client ID: FLC-5-MW01-092911 Instrument: bna3.i

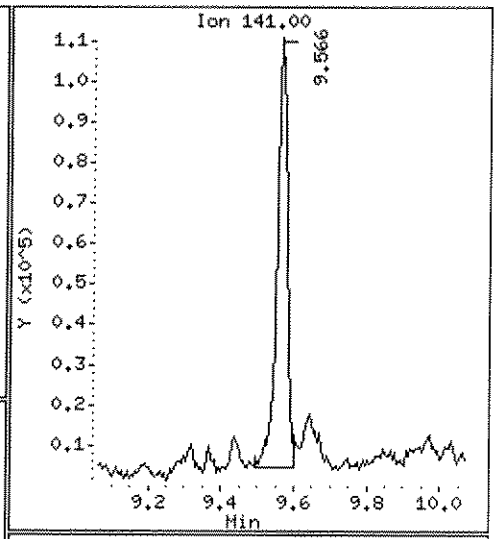
Sample Info: 1110003-12;;1000;1000;UG/L;;14-OCT-2011

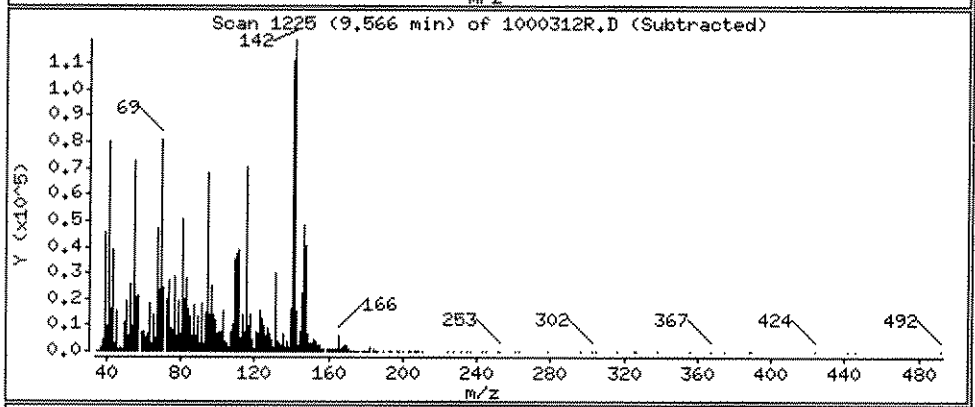
Volume Injected (uL): 0.5 Operator: RDW

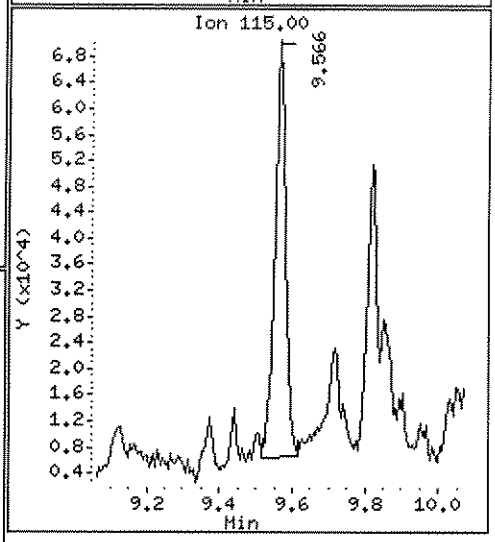
Column phase: fused silica Column diameter: 0.25

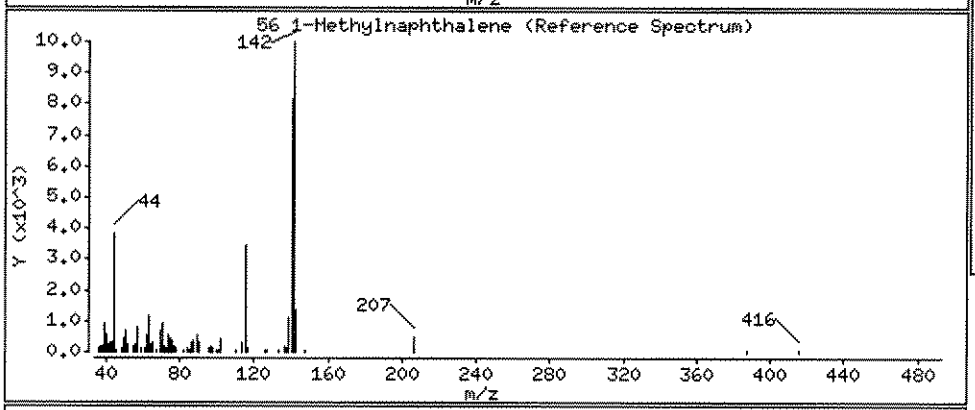
56 1-Methylnaphthalene Concentration: 5.030 ug/L

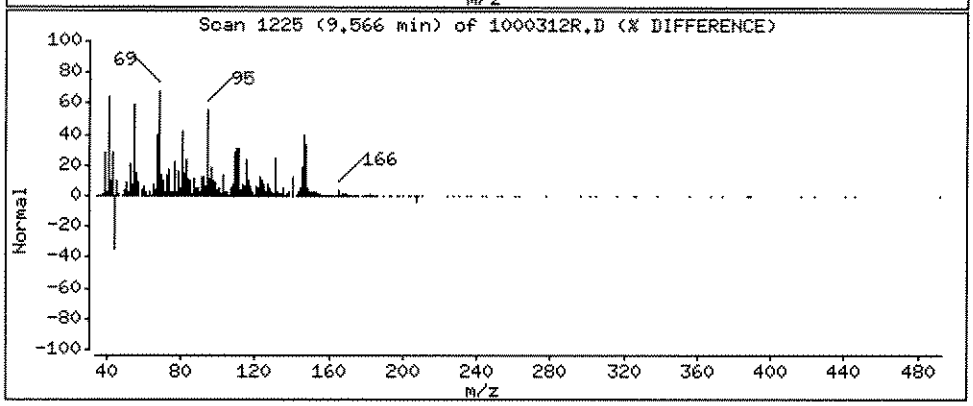












Data File: \\ELABNSH04\DD\chem\bna3.i\101911b3.b\1000312R.D

Date : 20-OCT-2011 00:02

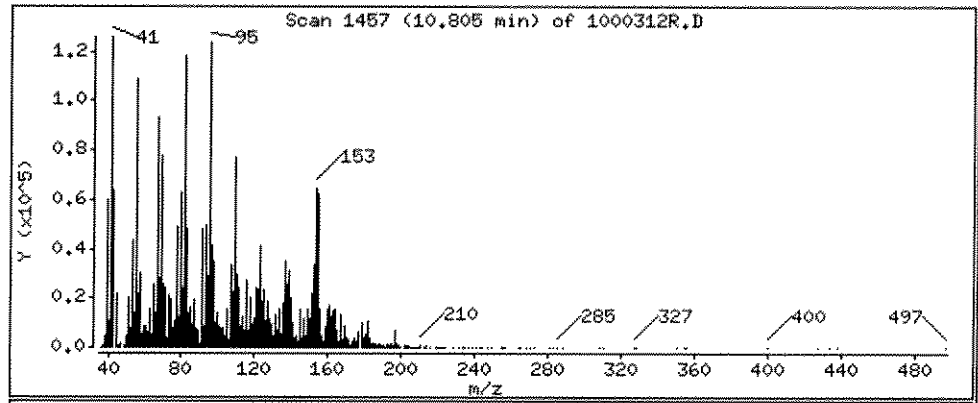
Client ID: FLC-5-HW01-092911 Instrument: bna3.i

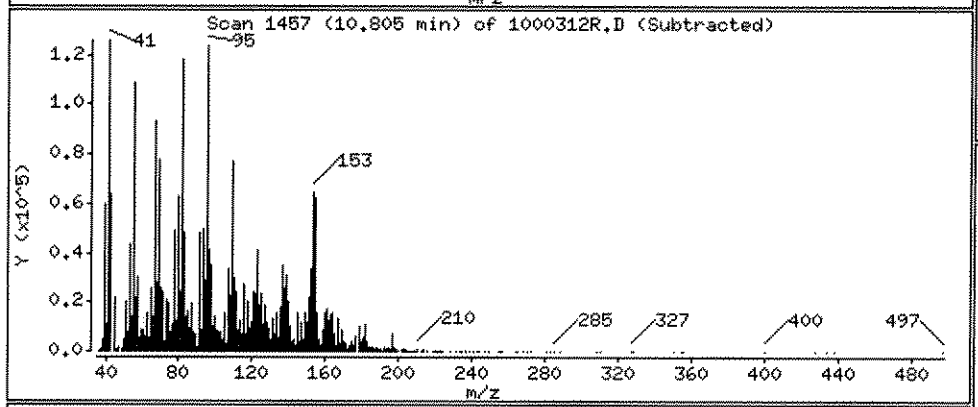
Sample Info: 1110003-12;;1000;1000;UG/L;;14-OCT-2011

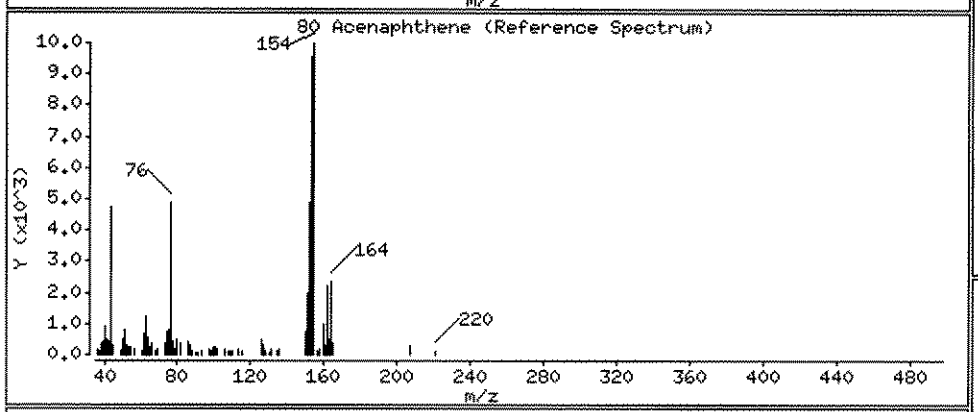
Volume Injected (uL): 0.5 Operator: RDW

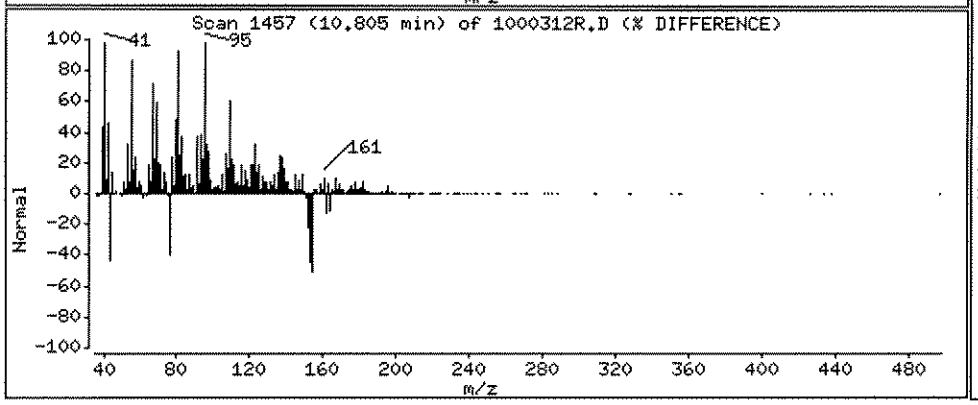
Column phase: fused silica Column diameter: 0.25

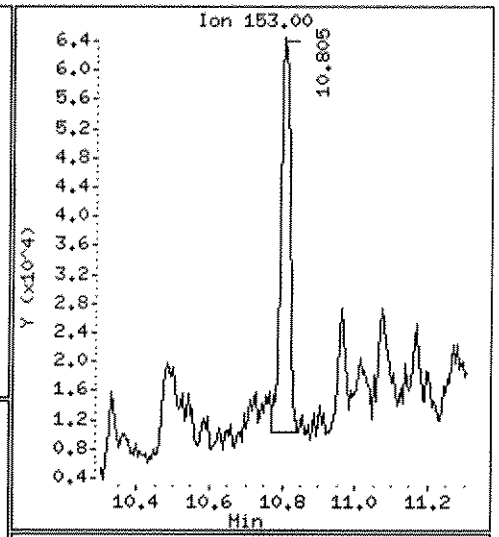
80 Acenaphthene Concentration: 1.968 ug/L

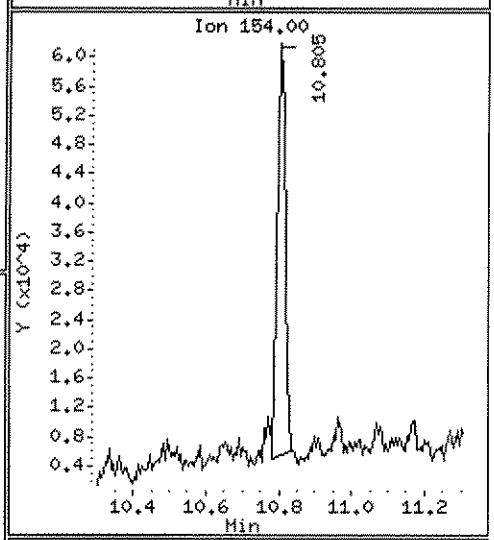


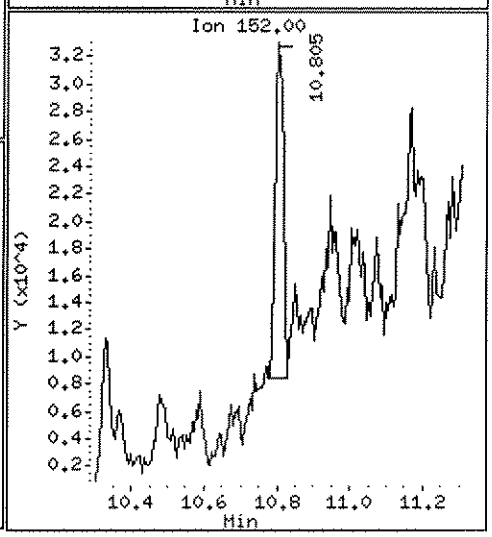












Data File: \\ELABNSH04\DD\chem\bna3.i\101911b3.b\1000312R.D

Date : 20-OCT-2011 00:02

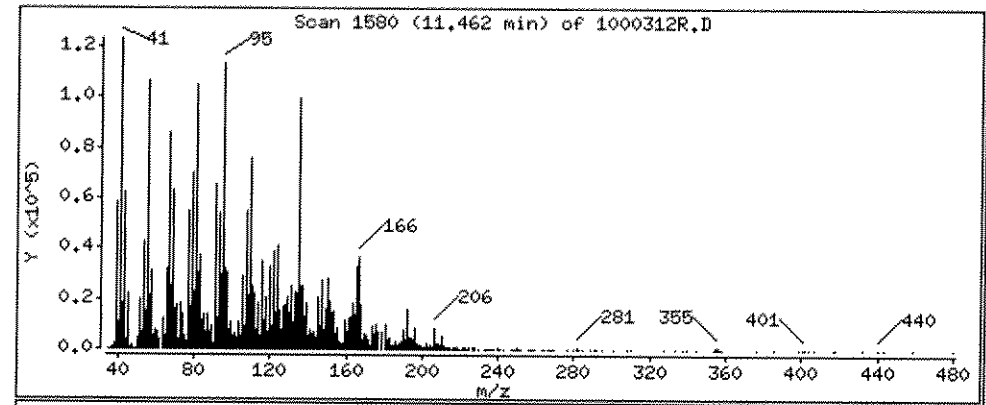
Client ID: FLC-5-MW01-092911 Instrument: bna3.i

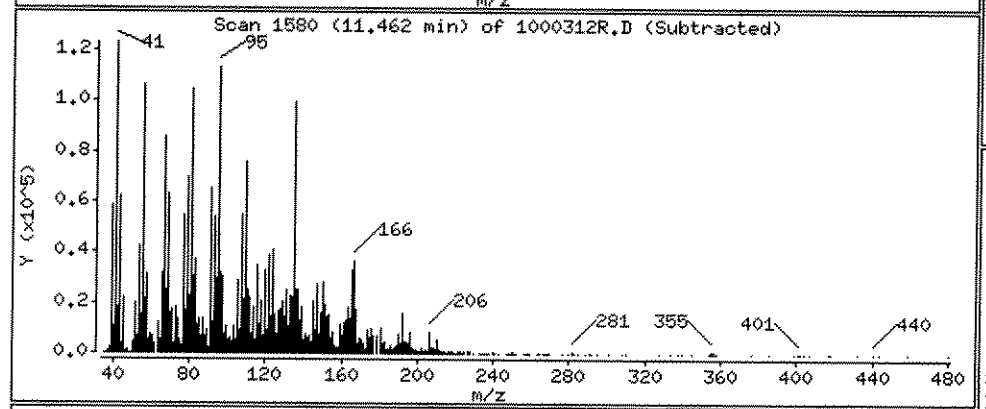
Sample Info: 1110003-12;;1000;1000;UG/L;;14-OCT-2011

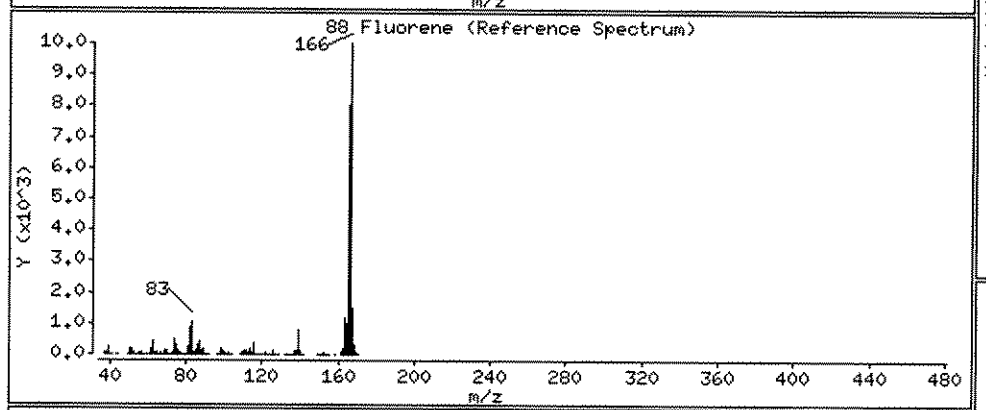
Volume Injected (uL): 0.5 Operator: RDW

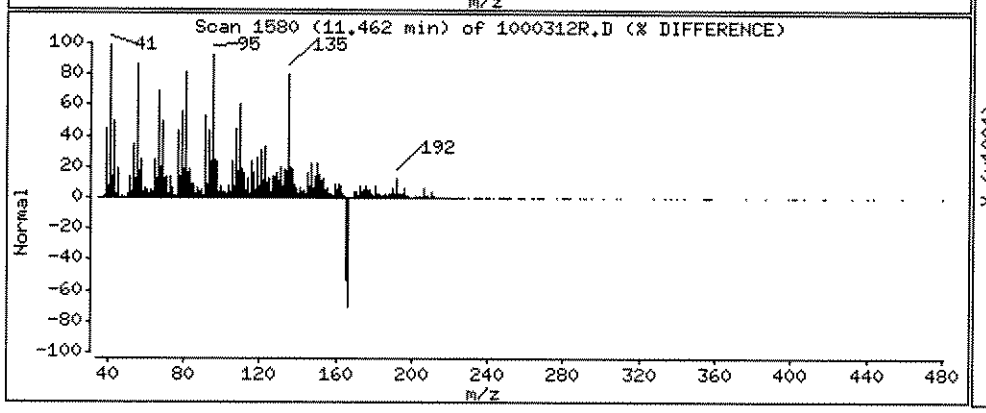
Column phase: fused silica Column diameter: 0.25

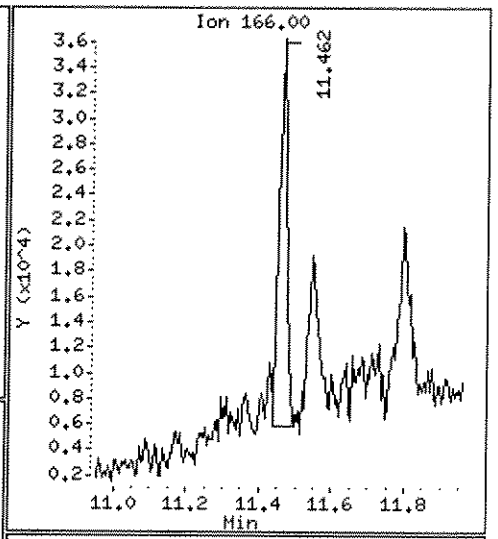
88 Fluorene Concentration: 0.7898 ug/L

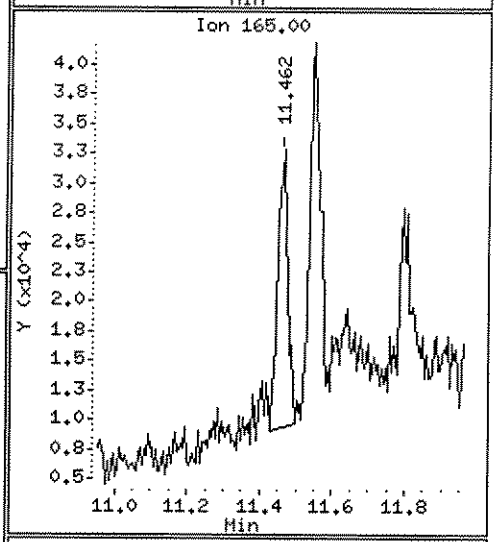


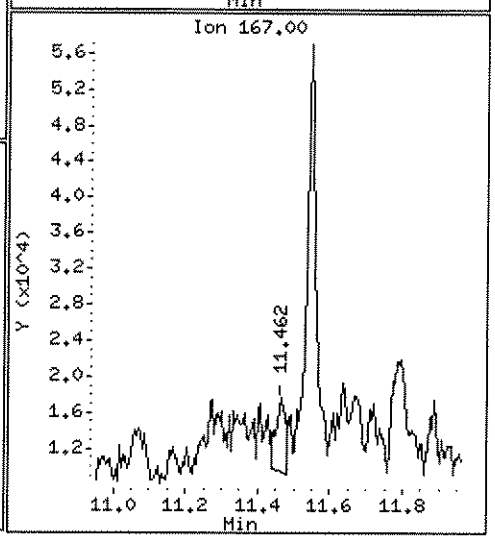












PREPARATION BENCH SHEET

1J03003

Empirical Laboratories, LLC **Printed: 10/20/2011 10:05:18AM**

Instrument:

Matrix: Water **Prepared using: EXT - EXT_3510** **Surrogate used: 11I0104**

Lab Number	Cont ID	Analysis	Prepared	Initial (mL)	Final (mL)	Spike ID	Source ID	ul Spike	ul Surrogate	PH	Extraction Comments
1109252-01	P	SMS_BNA_8270C_3510_REG	10/03/2011	1060	1				500	NA	requires 3-Methlphenol/4-Methylphenol,LOW SAMPLE VOLUME
1109252-03	O	SMS_BNA_8270C_3510_REG	10/03/2011	1020	1				500	NA	use both 1x&100x-ADM
1109252-03RE1	O	SMS_BNA_8270C_3510_REG	10/03/2011	1020	1				500	NA	use both 1x&100x-ADM
1109252-05	O	SMS_BNA_8270C_3510_REG	10/03/2011	1060	1				500	NA	use 100x-NO LOWER DIL-ADM
1109252-05RE1	O	SMS_BNA_8270C_3510_REG	10/03/2011	1060	1				500	NA	RR 200x for acetophenone-ADM
1110003-01	I	SMS_BNA_8270C_3510_REG	10/03/2011	1070	1				500	NA	
1110003-01	I	SMS_BNA_8270C_LOW_3510	10/03/2011	1070	1				500	NA	HCBD_PCP_PAHs for waters!
1110003-03	H	SMS_BNA_8270C_3510_REG	10/03/2011	1080	1				500	NA	
1110003-03	H	SMS_BNA_8270C_LOW_3510	10/03/2011	1080	1				500	NA	HCBD_PCP_PAHs for waters!
1110003-05	H	SMS_BNA_8270C_3510_REG	10/03/2011	1080	1				500	NA	
1110003-05	H	SMS_BNA_8270C_LOW_3510	10/03/2011	1080	1				500	NA	HCBD_PCP_PAHs for waters!
1110003-07	G	SMS_BNA_8270C_LOW_3510	10/03/2011	1080	1				500	NA	HCBD_PCP_PAHs for waters!
1110003-07	G	SMS_BNA_8270C_3510_REG	10/03/2011	1080	1				500	NA	
1110003-09	I	SMS_BNA_8270C_LOW_3510	10/03/2011	1080	1				500	NA	HCBD_PCP_PAHs for waters!
1110003-09	I	SMS_BNA_8270C_3510_REG	10/03/2011	1080	1				500	NA	
1110003-11	G	SMS_BNA_8270C_3510_REG	10/03/2011	1070	1				500	NA	
1110003-11	G	SMS_BNA_8270C_LOW_3510	10/03/2011	1070	1				500	NA	HCBD_PCP_PAHs for waters!
1110003-12	G	SMS_BNA_8270C_3510_REG	10/03/2011	1080	1				500	NA	MS/MSD
1110003-12	G	SMS_BNA_8270C_LOW_3510	10/03/2011	1080	1				500	NA	Added for BatchQC in: 1J03003
1110003-14	G	SMS_BNA_8270C_3510_REG	10/03/2011	1080	1				500	NA	
1110003-14	G	SMS_BNA_8270C_LOW_3510	10/03/2011	1080	1				500	NA	HCBD_PCP_PAHs for waters!
1J03003-BLK1		QC	10/03/2011	1000	1				500	NA	

Spiking Witnessed By Date

Preparation Reviewed By Date

Extracts Received By Date

604

1110003

PREPARATION BENCH SHEET

1J03003

Empirical Laboratories, LLC **Printed: 10/20/2011 10:05:18AM**

Instrument:

605

Matrix: Water **Prepared using: EXT - EXT_3510** **Surrogate used: 11I0104**

Lab Number	Cont ID	Analysis	Prepared	Initial (mL)	Final (mL)	Spike ID	Source ID	ul Spike	ul Surrogate	PH	Extraction Comments
1J03003-BLK2		QC	10/03/2011	1000	1				500	NA	LL
1J03003-BS1		QC	10/03/2011	1000	1	11I0554		500	500	NA	REG
1J03003-BS2		QC	10/03/2011	1000	1	11I0558		1000	500	NA	LL
1J03003-MS1		QC	10/03/2011	1080	1	11I0554	1110003-12	500	500	NA	REG
1J03003-MSD1		QC	10/03/2011	1080	1	11I0554	1110003-12	500	500	NA	REG

Reagents Used:

Standard	Description
11I0388	1:1 H2SO4/DIH2O
11I0389	10N NaOH for Extractions
11I0738	Methylene Chloride
11I0761	Sodium Sulfate Anhydrous

1110003

Spiking Witnessed By Date

Preparation Reviewed By Date

Extracts Received By Date

PREPARATION BENCH SHEET

1J06004

Empirical Laboratories, LLC

Printed: 10/31/2011 3:59:46PM

Instrument:

Matrix: Water **Prepared using: EXT - EXT_3510** **Surrogate used: 11I0104**

Lab Number	Cont ID	Analysis	Prepared	Initial (mL)	Final (mL)	Spike ID	Source ID	ul Spike	ul Surrogate	PH	Extraction Comments
1110003-09RE1	G	SMS_BNA_8270C_3510_REG	10/06/2011	1080	1				500	NA	Re-extract added 10/6/2011 by DMG
1110003-12RE1	T	SMS_BNA_8270C_3510_REG	10/06/2011	1070	1				500	NA	Re-extract added 10/6/2011 by DMG
1110016-01	B	SMS_PAH_8270C_3510_LOW	10/06/2011	1080	1				500	NA	
1110019-01	P	SMS_BNA_8270C_3510_REG	10/06/2011	1060	1				500	NA	requires 3-Methlphenol/4-Methylphenol
1110019-03	N	SMS_BNA_8270C_3510_REG	10/06/2011	1080	1				500	NA	requires 3-Methlphenol/4-Methylphenol
1110019-05	O	SMS_BNA_8270C_3510_REG	10/06/2011	1070	1				500	NA	requires 3-Methlphenol/4-Methylphenol
1110019-07	BA	SMS_PAH_8270C_3510_LOW	10/06/2011	1060	1				500	NA	Added for BatchQC in: 1J06004
1110019-07	BA	SMS_BNA_8270C_3510_REG	10/06/2011	1060	1				500	NA	MS/MSD.requires 3-Methlphenol/4-Methylphenol
1110019-09	P	SMS_BNA_8270C_3510_REG	10/06/2011	1060	1				500	NA	requires 3-Methlphenol/4-Methylphenol
1110019-11	N	SMS_BNA_8270C_3510_REG	10/06/2011	1060	1				500	NA	requires 3-Methlphenol/4-Methylphenol
1J06004-BLK1		QC	10/06/2011	1000	1				500	NA	
1J06004-BLK2		QC	10/06/2011	1000	1				500	NA	
1J06004-BS1		QC	10/06/2011	1000	1	11J0026		500	500	NA	reg
1J06004-BS2		QC	10/06/2011	1000	1	11J0025		1000	500	NA	LL
1J06004-MRL1		QC	10/06/2011	1000	1	11J0026		15	500	NA	lcs 1 only
1J06004-MS1		QC	10/06/2011	1080	1	11J0026	1110019-07	500	500	NA	reg
1J06004-MSD1		QC	10/06/2011	1040	1	11J0026	1110019-07	500	500	NA	reg

Spiking Witnessed By Date

Preparation Reviewed By Date

Extracts Received By Date

606

1110003

PREPARATION BENCH SHEET

1J06004

Empirical Laboratories, LLC

Printed: 10/31/2011 3:59:46PM

Instrument:

Matrix: Water

Prepared using: EXT - EXT_3510

Surrogate used: 11I0104

Lab Number	Cont ID	Analysis	Prepared	Initial (mL)	Final (mL)	Spike ID	Source ID	ul Spike	ul Surrogate	PH	Extraction Comments

Reagents Used:

Standard	Description
11I0388	1:1 H2SO4/DIH2O
11I0389	10N NaOH for Extractions
11I0738	Methylene Chloride
11I0761	Sodium Sulfate Anhydrous

spike 2 added on benchsheet 10312011 since it was left out of data entry in error. dmg made change in element under m cobb id instead of dmg

Spiking Witnessed By Date

Preparation Reviewed By Date

Extracts Received By Date

607

1110003

Data for SW8270C Forms

ANALYSIS DATA SHEET

FLC-4-MW01-092911

Laboratory:	Empirical Laboratories, LLC			SDG:	1110003
Client:	Tetra Tech NUS, Inc. (T010)			Project:	Navy Fuel Depot CTO JM46
Matrix:	Water	Laboratory ID:	1110003-01	File ID:	1000301.D
Sampled:	09/29/11 08:20	Prepared:	10/03/11 12:10	Analyzed:	10/26/11 22:43
Solids:		Preparation:	EXT_3510	Dilution:	1

Batch: 1J03003 Sequence: 1J30114 Calibration: 1238006 Instrument: MS-BNA4

CAS NO.	COMPOUND	CONC. (ug/L)	DL	LOD	LOQ	Q
83-32-9	Acenaphthene		0.0467	0.0935	0.187	U
208-96-8	Acenaphthylene		0.0467	0.0935	0.187	U
120-12-7	Anthracene		0.0467	0.0935	0.187	U
56-55-3	Benzo(a)anthracene		0.0467	0.0935	0.187	U
50-32-8	Benzo(a)pyrene		0.0467	0.0935	0.187	U
205-99-2	Benzo(b)fluoranthene		0.0467	0.0935	0.187	U
191-24-2	Benzo(g,h,i)perylene		0.0467	0.0935	0.187	U
207-08-9	Benzo(k)fluoranthene		0.0467	0.0935	0.187	U
218-01-9	Chrysene		0.0467	0.0935	0.187	U
53-70-3	Dibenz(a,h)anthracene		0.0467	0.0935	0.187	U
206-44-0	Fluoranthene		0.0467	0.0935	0.187	U
86-73-7	Fluorene		0.0467	0.0935	0.187	U
87-68-3	Hexachlorobutadiene		0.234	0.467	0.935	U
193-39-5	Indeno(1,2,3-cd)pyrene		0.0467	0.0935	0.187	U
90-12-0	1-Methylnaphthalene		0.0467	0.0935	0.187	U
91-57-6	2-Methylnaphthalene		0.0467	0.0935	0.187	U
91-20-3	Naphthalene		0.0467	0.0935	0.187	U
87-86-5	Pentachlorophenol		0.935	1.87	3.74	Y, Q, U
85-01-8	Phenanthrene	0.0708	0.0467	0.0935	0.187	IV
129-00-0	Pyrene		0.0467	0.0935	0.187	U

SYSTEM MONITORING COMPOUND	ADDED (ug/L)	CONC (ug/L)	% REC	QC LIMITS	Q
2-Fluorobiphenyl	46.73	31.10	66.5	34 - 167	
Terphenyl-d14	46.73	38.75	82.9	34 - 167	
2,4,6-Tribromophenol	93.46	71.34	76.3	34 - 167	

ANALYSIS DATA SHEET

FLC-4-MW02-092911

Laboratory:	Empirical Laboratories, LLC			SDG:	1110003
Client:	Tetra Tech NUS, Inc. (T010)			Project:	Navy Fuel Depot CTO JM46
Matrix:	Water	Laboratory ID:	1110003-03	File ID:	1000303.D
Sampled:	09/29/11 09:30	Prepared:	10/03/11 12:10	Analyzed:	10/26/11 23:12
Solids:		Preparation:	EXT_3510	Dilution:	1

Batch: 1J03003 Sequence: 1J30114 Calibration: 1238006 Instrument: MS-BNA4

CAS NO.	COMPOUND	CONC. (ug/L)	DL	LOD	LOQ	Q
83-32-9	Acenaphthene	0.0631	0.0463	0.0926	0.185	I
208-96-8	Acenaphthylene		0.0463	0.0926	0.185	U
120-12-7	Anthracene		0.0463	0.0926	0.185	U
56-55-3	Benzo(a)anthracene		0.0463	0.0926	0.185	U
50-32-8	Benzo(a)pyrene		0.0463	0.0926	0.185	U
205-99-2	Benzo(b)fluoranthene		0.0463	0.0926	0.185	U
191-24-2	Benzo(g,h,i)perylene		0.0463	0.0926	0.185	U
207-08-9	Benzo(k)fluoranthene		0.0463	0.0926	0.185	U
218-01-9	Chrysene		0.0463	0.0926	0.185	U
53-70-3	Dibenz(a,h)anthracene		0.0463	0.0926	0.185	U
206-44-0	Fluoranthene		0.0463	0.0926	0.185	U
86-73-7	Fluorene		0.0463	0.0926	0.185	U
87-68-3	Hexachlorobutadiene		0.231	0.463	0.926	U
193-39-5	Indeno(1,2,3-cd)pyrene		0.0463	0.0926	0.185	U
90-12-0	1-Methylnaphthalene		0.0463	0.0926	0.185	U
91-57-6	2-Methylnaphthalene		0.0463	0.0926	0.185	U
91-20-3	Naphthalene		0.0463	0.0926	0.185	U
87-86-5	Pentachlorophenol		0.926	1.85	3.70	Y, Q, U
85-01-8	Phenanthrene	0.0917	0.0463	0.0926	0.185	IV
129-00-0	Pyrene		0.0463	0.0926	0.185	U

SYSTEM MONITORING COMPOUND	ADDED (ug/L)	CONC (ug/L)	% REC	QC LIMITS	Q
2-Fluorobiphenyl	46.30	29.55	63.8	34 - 167	
Terphenyl-d14	46.30	43.22	93.4	34 - 167	
2,4,6-Tribromophenol	92.59	77.32	83.5	34 - 167	

ANALYSIS DATA SHEET

FLC-5-MW05-092911

Laboratory:	Empirical Laboratories, LLC			SDG:	1110003
Client:	Tetra Tech NUS, Inc. (T010)			Project:	Navy Fuel Depot CTO JM46
Matrix:	Water	Laboratory ID:	1110003-05	File ID:	1000305.D
Sampled:	09/29/11 11:25	Prepared:	10/03/11 12:10	Analyzed:	10/26/11 23:42
Solids:		Preparation:	EXT_3510	Dilution:	1

Batch: 1J03003 Sequence: 1J30114 Calibration: 1238006 Instrument: MS-BNA4

CAS NO.	COMPOUND	CONC. (ug/L)	DL	LOD	LOQ	Q
83-32-9	Acenaphthene	0.101	0.0463	0.0926	0.185	I
208-96-8	Acenaphthylene		0.0463	0.0926	0.185	U
120-12-7	Anthracene		0.0463	0.0926	0.185	U
56-55-3	Benzo(a)anthracene		0.0463	0.0926	0.185	U
50-32-8	Benzo(a)pyrene		0.0463	0.0926	0.185	U
205-99-2	Benzo(b)fluoranthene		0.0463	0.0926	0.185	U
191-24-2	Benzo(g,h,i)perylene		0.0463	0.0926	0.185	U
207-08-9	Benzo(k)fluoranthene		0.0463	0.0926	0.185	U
218-01-9	Chrysene		0.0463	0.0926	0.185	U
53-70-3	Dibenz(a,h)anthracene		0.0463	0.0926	0.185	U
206-44-0	Fluoranthene		0.0463	0.0926	0.185	U
86-73-7	Fluorene		0.0463	0.0926	0.185	U
87-68-3	Hexachlorobutadiene		0.231	0.463	0.926	U
193-39-5	Indeno(1,2,3-cd)pyrene		0.0463	0.0926	0.185	U
90-12-0	1-Methylnaphthalene	0.678	0.0463	0.0926	0.185	
91-57-6	2-Methylnaphthalene	0.104	0.0463	0.0926	0.185	I
91-20-3	Naphthalene		0.0463	0.0926	0.185	U
87-86-5	Pentachlorophenol		0.926	1.85	3.70	Y, Q, U
85-01-8	Phenanthrene	0.0885	0.0463	0.0926	0.185	IV
129-00-0	Pyrene		0.0463	0.0926	0.185	U

SYSTEM MONITORING COMPOUND	ADDED (ug/L)	CONC (ug/L)	% REC	QC LIMITS	Q
2-Fluorobiphenyl	46.30	20.08	43.4	34 - 167	
Terphenyl-d14	46.30	21.80	47.1	34 - 167	
2,4,6-Tribromophenol	92.59	56.90	61.5	34 - 167	

ANALYSIS DATA SHEET

FLC-5-MW04-092911

Laboratory:	Empirical Laboratories, LLC			SDG:	1110003
Client:	Tetra Tech NUS, Inc. (T010)			Project:	Navy Fuel Depot CTO JM46
Matrix:	Water	Laboratory ID:	1110003-07	File ID:	1000307.D
Sampled:	09/29/11 12:50	Prepared:	10/03/11 12:10	Analyzed:	10/27/11 00:11
Solids:		Preparation:	EXT_3510	Dilution:	1

Batch: 1J03003 Sequence: 1J30114 Calibration: 1238006 Instrument: MS-BNA4

CAS NO.	COMPOUND	CONC. (ug/L)	DL	LOD	LOQ	Q
83-32-9	Acenaphthene		0.0463	0.0926	0.185	U
208-96-8	Acenaphthylene		0.0463	0.0926	0.185	U
120-12-7	Anthracene		0.0463	0.0926	0.185	U
56-55-3	Benzo(a)anthracene		0.0463	0.0926	0.185	U
50-32-8	Benzo(a)pyrene		0.0463	0.0926	0.185	U
205-99-2	Benzo(b)fluoranthene		0.0463	0.0926	0.185	U
191-24-2	Benzo(g,h,i)perylene		0.0463	0.0926	0.185	U
207-08-9	Benzo(k)fluoranthene		0.0463	0.0926	0.185	U
218-01-9	Chrysene		0.0463	0.0926	0.185	U
53-70-3	Dibenz(a,h)anthracene		0.0463	0.0926	0.185	U
206-44-0	Fluoranthene		0.0463	0.0926	0.185	U
86-73-7	Fluorene		0.0463	0.0926	0.185	U
87-68-3	Hexachlorobutadiene		0.231	0.463	0.926	U
193-39-5	Indeno(1,2,3-cd)pyrene		0.0463	0.0926	0.185	U
90-12-0	1-Methylnaphthalene		0.0463	0.0926	0.185	U
91-57-6	2-Methylnaphthalene		0.0463	0.0926	0.185	U
91-20-3	Naphthalene		0.0463	0.0926	0.185	U
87-86-5	Pentachlorophenol		0.926	1.85	3.70	Y, Q, U
85-01-8	Phenanthrene	0.0708	0.0463	0.0926	0.185	IV
129-00-0	Pyrene		0.0463	0.0926	0.185	U

SYSTEM MONITORING COMPOUND	ADDED (ug/L)	CONC (ug/L)	% REC	QC LIMITS	Q
2-Fluorobiphenyl	46.30	24.77	53.5	34 - 167	
Terphenyl-d14	46.30	36.46	78.8	34 - 167	
2,4,6-Tribromophenol	92.59	70.74	76.4	34 - 167	

ANALYSIS DATA SHEET

FLC-5-MW03-092911

Laboratory:	Empirical Laboratories, LLC			SDG:	1110003
Client:	Tetra Tech NUS, Inc. (T010)			Project:	Navy Fuel Depot CTO JM46
Matrix:	Water	Laboratory ID:	1110003-09	File ID:	1000309.D
Sampled:	09/29/11 14:00	Prepared:	10/03/11 12:10	Analyzed:	10/27/11 00:41
Solids:		Preparation:	EXT_3510	Dilution:	1

Batch: 1J03003 Sequence: 1J30114 Calibration: 1238006 Instrument: MS-BNA4

CAS NO.	COMPOUND	CONC. (ug/L)	DL	LOD	LOQ	Q
83-32-9	Acenaphthene		0.0463	0.0926	0.185	U
208-96-8	Acenaphthylene		0.0463	0.0926	0.185	U
120-12-7	Anthracene		0.0463	0.0926	0.185	U
56-55-3	Benzo(a)anthracene		0.0463	0.0926	0.185	U
50-32-8	Benzo(a)pyrene		0.0463	0.0926	0.185	U
205-99-2	Benzo(b)fluoranthene		0.0463	0.0926	0.185	U
191-24-2	Benzo(g,h,i)perylene		0.0463	0.0926	0.185	U
207-08-9	Benzo(k)fluoranthene		0.0463	0.0926	0.185	U
218-01-9	Chrysene		0.0463	0.0926	0.185	U
53-70-3	Dibenz(a,h)anthracene		0.0463	0.0926	0.185	U
206-44-0	Fluoranthene		0.0463	0.0926	0.185	U
86-73-7	Fluorene		0.0463	0.0926	0.185	U
87-68-3	Hexachlorobutadiene		0.231	0.463	0.926	U
193-39-5	Indeno(1,2,3-cd)pyrene		0.0463	0.0926	0.185	U
90-12-0	1-Methylnaphthalene		0.0463	0.0926	0.185	U
91-57-6	2-Methylnaphthalene		0.0463	0.0926	0.185	U
91-20-3	Naphthalene		0.0463	0.0926	0.185	U
87-86-5	Pentachlorophenol		0.926	1.85	3.70	Y, Q, U
85-01-8	Phenanthrene	0.0999	0.0463	0.0926	0.185	IV
129-00-0	Pyrene		0.0463	0.0926	0.185	U

SYSTEM MONITORING COMPOUND	ADDED (ug/L)	CONC (ug/L)	% REC	QC LIMITS	Q
2-Fluorobiphenyl	46.30	7.900	17.1	34 - 167	*
Terphenyl-d14	46.30	12.06	26.1	34 - 167	*
2,4,6-Tribromophenol	92.59	17.96	19.4	34 - 167	*

ANALYSIS DATA SHEET

FLC-RB02-092911

Laboratory:	Empirical Laboratories, LLC			SDG:	1110003
Client:	Tetra Tech NUS, Inc. (T010)			Project:	Navy Fuel Depot CTO JM46
Matrix:	Water	Laboratory ID:	1110003-11	File ID:	1000311.D
Sampled:	09/29/11 14:35	Prepared:	10/03/11 12:10	Analyzed:	10/27/11 01:10
Solids:		Preparation:	EXT_3510	Dilution:	1

Batch: 1J03003 Sequence: 1J30114 Calibration: 1238006 Instrument: MS-BNA4

CAS NO.	COMPOUND	CONC. (ug/L)	DL	LOD	LOQ	Q
83-32-9	Acenaphthene		0.0467	0.0935	0.187	U
208-96-8	Acenaphthylene		0.0467	0.0935	0.187	U
120-12-7	Anthracene		0.0467	0.0935	0.187	U
56-55-3	Benzo(a)anthracene		0.0467	0.0935	0.187	U
50-32-8	Benzo(a)pyrene		0.0467	0.0935	0.187	U
205-99-2	Benzo(b)fluoranthene		0.0467	0.0935	0.187	U
191-24-2	Benzo(g,h,i)perylene		0.0467	0.0935	0.187	U
207-08-9	Benzo(k)fluoranthene		0.0467	0.0935	0.187	U
218-01-9	Chrysene		0.0467	0.0935	0.187	U
53-70-3	Dibenz(a,h)anthracene		0.0467	0.0935	0.187	U
206-44-0	Fluoranthene		0.0467	0.0935	0.187	U
86-73-7	Fluorene		0.0467	0.0935	0.187	U
87-68-3	Hexachlorobutadiene		0.234	0.467	0.935	U
193-39-5	Indeno(1,2,3-cd)pyrene		0.0467	0.0935	0.187	U
90-12-0	1-Methylnaphthalene		0.0467	0.0935	0.187	U
91-57-6	2-Methylnaphthalene		0.0467	0.0935	0.187	U
91-20-3	Naphthalene	0.0501	0.0467	0.0935	0.187	I
87-86-5	Pentachlorophenol		0.935	1.87	3.74	Y, Q, U
85-01-8	Phenanthrene	0.114	0.0467	0.0935	0.187	IV
129-00-0	Pyrene		0.0467	0.0935	0.187	U

SYSTEM MONITORING COMPOUND	ADDED (ug/L)	CONC (ug/L)	% REC	QC LIMITS	Q
2-Fluorobiphenyl	46.73	26.07	55.8	34 - 167	
Terphenyl-d14	46.73	30.53	65.3	34 - 167	
2,4,6-Tribromophenol	93.46	46.83	50.1	34 - 167	

ANALYSIS DATA SHEET

FLC-5-MW01-092911

Laboratory:	Empirical Laboratories, LLC			SDG:	1110003
Client:	Tetra Tech NUS, Inc. (T010)			Project:	Navy Fuel Depot CTO JM46
Matrix:	Water	Laboratory ID:	1110003-12	File ID:	1000312.D
Sampled:	09/30/11 09:15	Prepared:	10/03/11 12:10	Analyzed:	10/27/11 01:39
Solids:		Preparation:	EXT_3510	Dilution:	1

Batch: 1J03003 Sequence: 1J30114 Calibration: 1238006 Instrument: MS-BNA4

CAS NO.	COMPOUND	CONC. (ug/L)	DL	LOD	LOQ	Q
83-32-9	Acenaphthene	1.27	0.0463	0.0926	0.185	
208-96-8	Acenaphthylene		0.0463	0.0926	0.185	U
120-12-7	Anthracene		0.0463	0.0926	0.185	U
56-55-3	Benzo(a)anthracene		0.0463	0.0926	0.185	U
50-32-8	Benzo(a)pyrene		0.0463	0.0926	0.185	U
205-99-2	Benzo(b)fluoranthene		0.0463	0.0926	0.185	U
191-24-2	Benzo(g,h,i)perylene		0.0463	0.0926	0.185	U
207-08-9	Benzo(k)fluoranthene		0.0463	0.0926	0.185	U
218-01-9	Chrysene		0.0463	0.0926	0.185	U
53-70-3	Dibenz(a,h)anthracene		0.0463	0.0926	0.185	U
206-44-0	Fluoranthene		0.0463	0.0926	0.185	U
86-73-7	Fluorene		0.0463	0.0926	0.185	U
87-68-3	Hexachlorobutadiene		0.231	0.463	0.926	U
193-39-5	Indeno(1,2,3-cd)pyrene		0.0463	0.0926	0.185	U
90-12-0	1-Methylnaphthalene	1.57	0.0463	0.0926	0.185	
91-57-6	2-Methylnaphthalene		0.0463	0.0926	0.185	U
91-20-3	Naphthalene	0.168	0.0463	0.0926	0.185	I
87-86-5	Pentachlorophenol		0.926	1.85	3.70	Y, Q, N, U
85-01-8	Phenanthrene	0.567	0.0463	0.0926	0.185	V
129-00-0	Pyrene		0.0463	0.0926	0.185	U

SYSTEM MONITORING COMPOUND	ADDED (ug/L)	CONC (ug/L)	% REC	QC LIMITS	Q
2-Fluorobiphenyl	46.30	11.46	24.8	34 - 167	*
Terphenyl-d14	46.30	24.22	52.3	34 - 167	
2,4,6-Tribromophenol	92.59	53.47	57.7	34 - 167	

ANALYSIS DATA SHEET

FLC-5-MW02-092911

Laboratory:	Empirical Laboratories, LLC			SDG:	1110003
Client:	Tetra Tech NUS, Inc. (T010)			Project:	Navy Fuel Depot CTO JM46
Matrix:	Water	Laboratory ID:	1110003-14	File ID:	1000314.D
Sampled:	09/30/11 11:05	Prepared:	10/03/11 12:10	Analyzed:	10/27/11 02:09
Solids:		Preparation:	EXT_3510	Dilution:	1

Batch: 1J03003 Sequence: 1J30114 Calibration: 1238006 Instrument: MS-BNA4

CAS NO.	COMPOUND	CONC. (ug/L)	DL	LOD	LOQ	Q
83-32-9	Acenaphthene		0.0463	0.0926	0.185	U
208-96-8	Acenaphthylene		0.0463	0.0926	0.185	U
120-12-7	Anthracene		0.0463	0.0926	0.185	U
56-55-3	Benzo(a)anthracene		0.0463	0.0926	0.185	U
50-32-8	Benzo(a)pyrene		0.0463	0.0926	0.185	U
205-99-2	Benzo(b)fluoranthene		0.0463	0.0926	0.185	U
191-24-2	Benzo(g,h,i)perylene		0.0463	0.0926	0.185	U
207-08-9	Benzo(k)fluoranthene		0.0463	0.0926	0.185	U
218-01-9	Chrysene		0.0463	0.0926	0.185	U
53-70-3	Dibenz(a,h)anthracene		0.0463	0.0926	0.185	U
206-44-0	Fluoranthene		0.0463	0.0926	0.185	U
86-73-7	Fluorene		0.0463	0.0926	0.185	U
87-68-3	Hexachlorobutadiene		0.231	0.463	0.926	U
193-39-5	Indeno(1,2,3-cd)pyrene		0.0463	0.0926	0.185	U
90-12-0	1-Methylnaphthalene		0.0463	0.0926	0.185	U
91-57-6	2-Methylnaphthalene		0.0463	0.0926	0.185	U
91-20-3	Naphthalene		0.0463	0.0926	0.185	U
87-86-5	Pentachlorophenol		0.926	1.85	3.70	Y, Q, U
85-01-8	Phenanthrene	0.118	0.0463	0.0926	0.185	IV
129-00-0	Pyrene		0.0463	0.0926	0.185	U

SYSTEM MONITORING COMPOUND	ADDED (ug/L)	CONC (ug/L)	% REC	QC LIMITS	Q
2-Fluorobiphenyl	46.30	23.56	50.9	34 - 167	
Terphenyl-d14	46.30	26.26	56.7	34 - 167	
2,4,6-Tribromophenol	92.59	52.65	56.9	34 - 167	

SURROGATE STANDARD RECOVERY AND RT SUMMARY

SW8270C

Laboratory:	Empirical Laboratories, LLC	SDG:	1110003
Client:	Tetra Tech NUS, Inc. (T010)	Project:	Navy Fuel Depot CTO JM46
Sequence:	1J30114	Instrument:	MS-BNA4
		Calibration:	1238006

Surrogate Compound	Spike Level	% Recovery	Recovery Limits	RT	CCV RT	RT Diff	RT Diff Limit	Q
Calibration Check (1J30114-CCV1) ug/mL				Lab File ID: SEQ-CCV2.D		Analyzed: 10/26/11 21:14		
2-Fluorobiphenyl	5.000	105	80 - 120	7.712	7.712	0.0000	+/-0.500	
Terphenyl-d14	5.000	116	80 - 120	12.537	12.537	0.0000	+/-0.500	
2,4,6-Tribromophenol	10.00	96.2	80 - 120	9.506	9.506	0.0000	+/-0.500	
LCS (1J03003-BS2) ug/L				Lab File ID: J03003L1.D		Analyzed: 10/26/11 21:44		
2-Fluorobiphenyl	50.00	80.2	34 - 167	7.721	7.712	0.0090	+/-0.500	
Terphenyl-d14	50.00	82.2	34 - 167	12.537	12.537	0.0000	+/-0.500	
2,4,6-Tribromophenol	100.0	71.7	34 - 167	9.515	9.506	0.0090	+/-0.500	
Blank (1J03003-BLK2) ug/L				Lab File ID: J03003B1.D		Analyzed: 10/26/11 22:13		
2-Fluorobiphenyl	50.00	66.2	34 - 167	7.721	7.712	0.0090	+/-0.500	
Terphenyl-d14	50.00	102	34 - 167	12.546	12.537	0.0090	+/-0.500	
2,4,6-Tribromophenol	100.0	77.1	34 - 167	9.515	9.506	0.0090	+/-0.500	
FLC-4-MW01-092911 (1110003-01) ug/L				Lab File ID: 1000301.D		Analyzed: 10/26/11 22:43		
2-Fluorobiphenyl	46.73	66.5	34 - 167	7.721	7.712	0.0090	+/-0.500	
Terphenyl-d14	46.73	82.9	34 - 167	12.537	12.537	0.0000	+/-0.500	
2,4,6-Tribromophenol	93.46	76.3	34 - 167	9.515	9.506	0.0090	+/-0.500	
FLC-4-MW02-092911 (1110003-03) ug/L				Lab File ID: 1000303.D		Analyzed: 10/26/11 23:12		
2-Fluorobiphenyl	46.30	63.8	34 - 167	7.721	7.712	0.0090	+/-0.500	
Terphenyl-d14	46.30	93.4	34 - 167	12.546	12.537	0.0090	+/-0.500	
2,4,6-Tribromophenol	92.59	83.5	34 - 167	9.515	9.506	0.0090	+/-0.500	
FLC-5-MW05-092911 (1110003-05) ug/L				Lab File ID: 1000305.D		Analyzed: 10/26/11 23:42		
2-Fluorobiphenyl	46.30	43.4	34 - 167	7.721	7.712	0.0090	+/-0.500	
Terphenyl-d14	46.30	47.1	34 - 167	12.546	12.537	0.0090	+/-0.500	
2,4,6-Tribromophenol	92.59	61.5	34 - 167	9.515	9.506	0.0090	+/-0.500	
FLC-5-MW04-092911 (1110003-07) ug/L				Lab File ID: 1000307.D		Analyzed: 10/27/11 00:11		
2-Fluorobiphenyl	46.30	53.5	34 - 167	7.721	7.712	0.0090	+/-0.500	
Terphenyl-d14	46.30	78.8	34 - 167	12.546	12.537	0.0090	+/-0.500	
2,4,6-Tribromophenol	92.59	76.4	34 - 167	9.515	9.506	0.0090	+/-0.500	
FLC-5-MW03-092911 (1110003-09) ug/L				Lab File ID: 1000309.D		Analyzed: 10/27/11 00:41		
2-Fluorobiphenyl	46.30	17.1	34 - 167	7.712	7.712	0.0000	+/-0.500	*
Terphenyl-d14	46.30	26.1	34 - 167	12.537	12.537	0.0000	+/-0.500	*
2,4,6-Tribromophenol	92.59	19.4	34 - 167	9.515	9.506	0.0090	+/-0.500	*

SURROGATE STANDARD RECOVERY AND RT SUMMARY

SW8270C

Laboratory:	Empirical Laboratories, LLC	SDG:	1110003
Client:	Tetra Tech NUS, Inc. (T010)	Project:	Navy Fuel Depot CTO JM46
Sequence:	1J30114	Instrument:	MS-BNA4
		Calibration:	1238006

Surrogate Compound	Spike Level	% Recovery	Recovery Limits	RT	CCV RT	RT Diff	RT Diff Limit	Q
FLC-RB02-092911 (1110003-11) ug/L				Lab File ID: 1000311.D		Analyzed: 10/27/11 01:10		
2-Fluorobiphenyl	46.73	55.8	34 - 167	7.721	7.712	0.0090	+/-0.500	
Terphenyl-d14	46.73	65.3	34 - 167	12.536	12.537	-0.0010	+/-0.500	
2,4,6-Tribromophenol	93.46	50.1	34 - 167	9.515	9.506	0.0090	+/-0.500	
FLC-5-MW01-092911 (1110003-12) ug/L				Lab File ID: 1000312.D		Analyzed: 10/27/11 01:39		
2-Fluorobiphenyl	46.30	24.8	34 - 167	7.721	7.712	0.0090	+/-0.500	*
Terphenyl-d14	46.30	52.3	34 - 167	12.555	12.537	0.0180	+/-0.500	
2,4,6-Tribromophenol	92.59	57.7	34 - 167	9.524	9.506	0.0180	+/-0.500	
FLC-5-MW02-092911 (1110003-14) ug/L				Lab File ID: 1000314.D		Analyzed: 10/27/11 02:09		
2-Fluorobiphenyl	46.30	50.9	34 - 167	7.721	7.712	0.0090	+/-0.500	
Terphenyl-d14	46.30	56.7	34 - 167	12.546	12.537	0.0090	+/-0.500	
2,4,6-Tribromophenol	92.59	56.9	34 - 167	9.515	9.506	0.0090	+/-0.500	
Matrix Spike (1J03003-MS2) ug/L				Lab File ID: 1000312M.D		Analyzed: 10/27/11 02:38		
2-Fluorobiphenyl	46.30	57.3	34 - 167	7.721	7.712	0.0090	+/-0.500	
Terphenyl-d14	46.30	39.1	34 - 167	12.555	12.537	0.0180	+/-0.500	
2,4,6-Tribromophenol	92.59	58.2	34 - 167	9.534	9.506	0.0280	+/-0.500	
Matrix Spike Dup (1J03003-MSD2) ug/L				Lab File ID: 1000312S.D		Analyzed: 10/27/11 03:07		
2-Fluorobiphenyl	46.30	44.3	34 - 167	7.721	7.712	0.0090	+/-0.500	
Terphenyl-d14	46.30	21.3	34 - 167	12.546	12.537	0.0090	+/-0.500	*
2,4,6-Tribromophenol	92.59	32.9	34 - 167	9.524	9.506	0.0180	+/-0.500	*

LCS / LCS DUPLICATE RECOVERY

SW8270C

Laboratory:	Empirical Laboratories, LLC	SDG:	1110003
Client:	Tetra Tech NUS, Inc. (T010)	Project:	Navy Fuel Depot CTO JM46
Matrix:	Water		
Batch:	1J03003	Laboratory ID:	1J03003-BS2
Preparation:	EXT_3510	Initial/Final:	1000 mL / 1 mL

ANALYTE	SPIKE ADDED (ug/L)	LCS CONCENTRATION (ug/L)	LCS % REC.	QC LIMITS REC.
Acenaphthene	1.000	0.8291	82.9	41 - 132
Acenaphthylene	1.000	0.7446	74.5	43 - 140
Anthracene	1.000	0.7488	74.9	50 - 139
Benzo(a)anthracene	1.000	0.6774	67.7	58 - 141
Benzo(a)pyrene	1.000	0.7066	70.7	31 - 142
Benzo(b)fluoranthene	1.000	0.8918	89.2	42 - 156
Benzo(g,h,i)perylene	1.000	0.8614	86.1	12 - 171
Benzo(k)fluoranthene	1.000	0.9075	90.7	49 - 165
Chrysene	1.000	0.6761	67.6	51 - 155
Dibenz(a,h)anthracene	1.000	0.8001	80.0	28 - 153
Fluoranthene	1.000	0.8664	86.6	47 - 158
Fluorene	1.000	0.8667	86.7	40 - 140
Hexachlorobutadiene	1.000	0.8133	81.3	25 - 105
Indeno(1,2,3-cd)pyrene	1.000	0.8631	86.3	20 - 167
1-Methylnaphthalene	1.000	0.8807	88.1	35 - 131
2-Methylnaphthalene	1.000	0.8372	83.7	36 - 121
Naphthalene	1.000	0.7847	78.5	39 - 125
Pentachlorophenol	**1.000**	**1.262**	**126**	**40 - 115**
Phenanthrene	1.000	0.9740	97.4	46 - 144
Pyrene	1.000	0.7948	79.5	39 - 158

MATRIX SPIKE / MATRIX SPIKE DUPLICATE RECOVERY

SW8270C

FLC-5-MW01-092911

Laboratory: Empirical Laboratories, LLC

SDG: 1110003

Client: Tetra Tech NUS, Inc. (T010)

Project: Navy Fuel Depot CTO JM46

Matrix: Water

Batch: 1J03003

% Solids:

Source Sample Name: **1110003-12**

ANALYTE	SPIKE ADDED (ug/L)	SAMPLE CONCENTRATION (ug/L)	MS CONCENTRATION (ug/L)	MS % REC.	Q	QC LIMITS REC.
Acenaphthene	46.30	1.272	33.12	68.8		41 - 132
Acenaphthylene	46.30	ND	27.56	59.5		43 - 140
Anthracene	46.30	ND	33.06	71.4		50 - 139
Benzo(a)anthracene	46.30	ND	44.99	97.2		58 - 141
Benzo(a)pyrene	46.30	ND	36.96	79.8		31 - 142
Benzo(b)fluoranthene	46.30	ND	39.70	85.7		42 - 156
Benzo(g,h,i)perylene	46.30	ND	39.97	86.3		12 - 171
Benzo(k)fluoranthene	46.30	ND	38.82	83.8		49 - 165
Chrysene	46.30	ND	41.25	89.1		51 - 155
Dibenz(a,h)anthracene	46.30	ND	42.60	92.0		28 - 153
Fluoranthene	46.30	ND	38.34	82.8		47 - 158
Fluorene	46.30	ND	33.50	72.4		40 - 140
Hexachlorobutadiene	46.30	ND	27.44	59.3		25 - 105
Indeno(1,2,3-cd)pyrene	46.30	ND	41.21	89.0		20 - 167
1-Methylnaphthalene	46.30	1.573	35.18	72.6		35 - 131
2-Methylnaphthalene	46.30	ND	31.21	67.4		36 - 121
Naphthalene	46.30	0.1681	28.78	61.8		39 - 125
Pentachlorophenol	46.30	ND	24.96	53.9		40 - 115
Phenanthrene	46.30	0.5668	34.32	72.9		46 - 144
Pyrene	46.30	ND	38.79	83.8		39 - 158

MATRIX SPIKE / MATRIX SPIKE DUPLICATE RECOVERY

SW8270C

FLC-5-MW01-092911

Laboratory: Empirical Laboratories, LLC

SDG: 1110003

Client: Tetra Tech NUS, Inc. (T010)

Project: Navy Fuel Depot CTO JM46

Matrix: Water

Batch: 1J03003

% Solids:

Source Sample Name: **1110003-12**

ANALYTE	SPIKE ADDED (ug/L)	MSD CONCENTRATION (ug/L)	MSD % REC. #	% RPD	Q	QC LIMITS RPD	QC LIMITS REC.
Acenaphthene	46.30	25.76	52.9	25.0		30	41 - 132
Acenaphthylene	46.30	22.03	47.6	22.3		30	43 - 140
Anthracene	46.30	26.75	57.8	21.1		30	50 - 139
Benzo(a)anthracene	46.30	35.15	75.9	24.6		30	58 - 141
Benzo(a)pyrene	46.30	29.38	63.5	22.9		30	31 - 142
Benzo(b)fluoranthene	46.30	31.33	67.7	23.6		30	42 - 156
Benzo(g,h,i)perylene	46.30	32.20	69.6	21.5		30	12 - 171
Benzo(k)fluoranthene	46.30	31.66	68.4	20.3		30	49 - 165
Chrysene	46.30	32.54	70.3	23.6		30	51 - 155
Dibenz(a,h)anthracene	46.30	33.31	71.9	24.5		30	28 - 153
Fluoranthene	46.30	30.12	65.1	24.0		30	47 - 158
Fluorene	46.30	27.45	59.3	19.8		30	40 - 140
Hexachlorobutadiene	46.30	21.37	46.2	24.9		30	25 - 105
Indeno(1,2,3-cd)pyrene	46.30	32.58	70.4	23.4		30	20 - 167
1-Methylnaphthalene	46.30	27.88	56.8	23.2		30	35 - 131
2-Methylnaphthalene	46.30	24.73	53.4	23.2		30	36 - 121
Naphthalene	46.30	22.71	48.7	23.6		30	39 - 125
Pentachlorophenol	46.30	15.14	32.7	49.0	* *	30	40 - 115
Phenanthrene	46.30	28.27	59.8	19.3		30	46 - 144
Pyrene	46.30	30.61	66.1	23.6		30	39 - 158

PREPARATION BATCH SUMMARY

SW8270C

Laboratory: Empirical Laboratories, LLC SDG: 1110003

Client: Tetra Tech NUS, Inc. (T010) Project: Navy Fuel Depot CTO JM46

Batch: 1J03003 Batch Matrix: Water Preparation: EXT_3510

SAMPLE NAME	LAB SAMPLE ID	DATE PREPARED	INITIAL VOL./WEIGHT	FINAL VOL.
FLC-4-MW01-092911	1110003-01	10/03/11 12:10	1,070.00	1.00
FLC-4-MW02-092911	1110003-03	10/03/11 12:10	1,080.00	1.00
FLC-5-MW05-092911	1110003-05	10/03/11 12:10	1,080.00	1.00
FLC-5-MW04-092911	1110003-07	10/03/11 12:10	1,080.00	1.00
FLC-5-MW03-092911	1110003-09	10/03/11 12:10	1,080.00	1.00
FLC-RB02-092911	1110003-11	10/03/11 12:10	1,070.00	1.00
FLC-5-MW01-092911	1110003-12	10/03/11 12:10	1,080.00	1.00
FLC-5-MW02-092911	1110003-14	10/03/11 12:10	1,080.00	1.00
Blank	1J03003-BLK2	10/03/11 12:10	1,000.00	1.00
LCS	1J03003-BS2	10/03/11 12:10	1,000.00	1.00
FLC-5-MW01-092911	1J03003-MS2	10/03/11 12:10	1,080.00	1.00
FLC-5-MW01-092911	1J03003-MSD2	10/03/11 12:10	1,080.00	1.00

MASS SPECTROMETER INSTRUMENT PERFORMANCE CHECK

SW8270C

Laboratory:	Empirical Laboratories, LLC	SDG:	1110003
Client:	Tetra Tech NUS, Inc. (T010)	Project:	Navy Fuel Depot CTO JM46
Lab File ID:	SEQ-TUN1.D	Injection Date:	08/24/11
Instrument ID:	MS-BNA4	Injection Time:	14:16
Sequence:	1H23712	Lab Sample ID:	1H23712-TUN1

m/z	ION ABUNDANCE CRITERIA	% RELATIVE ABUNDANCE	
51	30 - 60% of 198	46.6	PASS
68	Less than 2% of 69	1.46	PASS
69	Less than 200% of 198	49.8	PASS
70	Less than 2% of 69	0.379	PASS
127	40 - 60% of 198	57.3	PASS
197	Less than 1% of 198	0	PASS
198	Base peak, 100% relative abundance	100	PASS
199	5 - 9% of 198	6.71	PASS
275	10 - 30% of 198	25	PASS
365	1 - 200% of 198	3.37	PASS
441	0.001 - 100% of 443	79.7	PASS
442	40 - 200% of 198	97.7	PASS
443	17 - 23% of 442	19.5	PASS

MASS SPECTROMETER INSTRUMENT PERFORMANCE CHECK

SW8270C

Laboratory:	Empirical Laboratories, LLC	SDG:	1110003
Client:	Tetra Tech NUS, Inc. (T010)	Project:	Navy Fuel Depot CTO JM46
Lab File ID:	SEQ-TUN2.D	Injection Date:	10/26/11
Instrument ID:	MS-BNA4	Injection Time:	20:57
Sequence:	1J30114	Lab Sample ID:	1J30114-TUN1

m/z	ION ABUNDANCE CRITERIA	% RELATIVE ABUNDANCE	
51	30 - 60% of 198	38.9	PASS
68	Less than 2% of 69	1.41	PASS
69	Less than 200% of 198	46.3	PASS
70	Less than 2% of 69	0.493	PASS
127	40 - 60% of 198	53.5	PASS
197	Less than 1% of 198	0.593	PASS
198	Base peak, 100% relative abundance	100	PASS
199	5 - 9% of 198	6.98	PASS
275	10 - 30% of 198	23.4	PASS
365	1 - 200% of 198	2.66	PASS
441	0.001 - 100% of 443	78.1	PASS
442	40 - 200% of 198	79.8	PASS
443	17 - 23% of 442	20.3	PASS

ANALYSIS SEQUENCE SUMMARY

SW8270C

Laboratory:	Empirical Laboratories, LLC	SDG:	1110003
Client:	Tetra Tech NUS, Inc. (T010)	Project:	Navy Fuel Depot CTO JM46
Sequence:	1H23712	Instrument:	MS-BNA4
Calibration:	1238006		

Sample Name	Lab Sample ID	Lab File ID	Analysis Date/Time
MS Tune	1H23712-TUN1	SEQ-TUN1.D	08/24/11 14:16
Cal Standard	1H23712-CAL1	SEQ-CAL1.D	08/24/11 14:35
Cal Standard	1H23712-CAL2	SEQ-CAL2.D	08/24/11 15:05
Cal Standard	1H23712-CAL3	SEQ-CAL3.D	08/24/11 15:35
Cal Standard	1H23712-CAL4	SEQ-CAL4.D	08/24/11 16:05
Cal Standard	1H23712-CAL5	SEQ-CAL5.D	08/24/11 16:35
Cal Standard	1H23712-CAL6	SEQ-CAL6.D	08/24/11 17:05
Cal Standard	1H23712-CAL7	SEQ-CAL7.D	08/24/11 17:34
Cal Standard	1H23712-CAL9	SEQ-CAL9.D	08/24/11 18:33
Initial Cal Check	1H23712-ICV1	SEQ-ICV1.D	08/24/11 19:02

ANALYSIS SEQUENCE SUMMARY

SW8270C

Laboratory:	Empirical Laboratories, LLC	SDG:	1110003
Client:	Tetra Tech NUS, Inc. (T010)	Project:	Navy Fuel Depot CTO JM46
Sequence:	1J30114	Instrument:	MS-BNA4
Calibration:	1238006		

Sample Name	Lab Sample ID	Lab File ID	Analysis Date/Time
MS Tune	1J30114-TUN1	SEQ-TUN2.D	10/26/11 20:57
Calibration Check	1J30114-CCV1	SEQ-CCV2.D	10/26/11 21:14
LCS	1J03003-BS2	J03003L1.D	10/26/11 21:44
Blank	1J03003-BLK2	J03003B1.D	10/26/11 22:13
FLC-4-MW01-092911	1110003-01	1000301.D	10/26/11 22:43
FLC-4-MW02-092911	1110003-03	1000303.D	10/26/11 23:12
FLC-5-MW05-092911	1110003-05	1000305.D	10/26/11 23:42
FLC-5-MW04-092911	1110003-07	1000307.D	10/27/11 00:11
FLC-5-MW03-092911	1110003-09	1000309.D	10/27/11 00:41
FLC-RB02-092911	1110003-11	1000311.D	10/27/11 01:10
FLC-5-MW01-092911	1110003-12	1000312.D	10/27/11 01:39
FLC-5-MW02-092911	1110003-14	1000314.D	10/27/11 02:09
FLC-5-MW01-092911	1J03003-MS2	1000312M.D	10/27/11 02:38
FLC-5-MW01-092911	1J03003-MSD2	1000312S.D	10/27/11 03:07

INTERNAL STANDARD AREA AND RT SUMMARY
SW8270C

Laboratory: Empirical Laboratories, LLC
SDG: 1110003
Client: Tetra Tech NUS, Inc. (T010)
Project: Navy Fuel Depot CTO JM46
Sequence: 1J30114
Instrument: MS-BNA4
Calibration: 1238006

Internal Standard	Response	RT	Reference Response	Reference RT	Area %	Area % Limits	RT Diff	RT Diff Limit	Q
Calibration Check (1J30114-CCV1)			Lab File ID: SEQ-CCV2.D			Analyzed: 10/26/11 21:14			
Phenanthrene-d10	135386	10.361	105583	10.012	128	50 - 200	0.3490	+/-0.50	
Perylene-d12	75087	17.082	58058	16.483	129	50 - 200	0.5990	+/-0.50	
LCS (1J03003-BS2)			Lab File ID: J03003L1.D			Analyzed: 10/26/11 21:44			
Phenanthrene-d10	132303	10.361	135386	10.361	98	50 - 200	0.0000	+/-0.50	
Perylene-d12	42171	17.083	75087	17.082	56	50 - 200	0.0010	+/-0.50	
Blank (1J03003-BLK2)			Lab File ID: J03003B1.D			Analyzed: 10/26/11 22:13			
Phenanthrene-d10	158288	10.37	135386	10.361	117	50 - 200	0.0090	+/-0.50	
Perylene-d12	52721	17.082	75087	17.082	70	50 - 200	0.0000	+/-0.50	
FLC-4-MW01-092911 (1110003-01)			Lab File ID: 1000301.D			Analyzed: 10/26/11 22:43			
Phenanthrene-d10	136308	10.361	135386	10.361	101	50 - 200	0.0000	+/-0.50	
Perylene-d12	44842	17.082	75087	17.082	60	50 - 200	0.0000	+/-0.50	
FLC-4-MW02-092911 (1110003-03)			Lab File ID: 1000303.D			Analyzed: 10/26/11 23:12			
Phenanthrene-d10	143995	10.37	135386	10.361	106	50 - 200	0.0090	+/-0.50	
Perylene-d12	55669	17.082	75087	17.082	74	50 - 200	0.0000	+/-0.50	
FLC-5-MW05-092911 (1110003-05)			Lab File ID: 1000305.D			Analyzed: 10/26/11 23:42			
Phenanthrene-d10	141370	10.37	135386	10.361	104	50 - 200	0.0090	+/-0.50	
Perylene-d12	49379	17.082	75087	17.082	66	50 - 200	0.0000	+/-0.50	
FLC-5-MW04-092911 (1110003-07)			Lab File ID: 1000307.D			Analyzed: 10/27/11 00:11			
Phenanthrene-d10	141814	10.371	135386	10.361	105	50 - 200	0.0100	+/-0.50	
Perylene-d12	58062	17.082	75087	17.082	77	50 - 200	0.0000	+/-0.50	
FLC-5-MW03-092911 (1110003-09)			Lab File ID: 1000309.D			Analyzed: 10/27/11 00:41			
Phenanthrene-d10	150903	10.37	135386	10.361	111	50 - 200	0.0090	+/-0.50	
Perylene-d12	55234	17.082	75087	17.082	74	50 - 200	0.0000	+/-0.50	
FLC-RB02-092911 (1110003-11)			Lab File ID: 1000311.D			Analyzed: 10/27/11 01:10			
Phenanthrene-d10	144737	10.361	135386	10.361	107	50 - 200	0.0000	+/-0.50	
Perylene-d12	64605	17.082	75087	17.082	86	50 - 200	0.0000	+/-0.50	
FLC-5-MW01-092911 (1110003-12)			Lab File ID: 1000312.D			Analyzed: 10/27/11 01:39			
Phenanthrene-d10	139269	10.38	135386	10.361	103	50 - 200	0.0190	+/-0.50	
Perylene-d12	66075	17.101	75087	17.082	88	50 - 200	0.0190	+/-0.50	
FLC-5-MW02-092911 (1110003-14)			Lab File ID: 1000314.D			Analyzed: 10/27/11 02:09			
Phenanthrene-d10	139227	10.371	135386	10.361	103	50 - 200	0.0100	+/-0.50	
Perylene-d12	60751	17.092	75087	17.082	81	50 - 200	0.0100	+/-0.50	
Matrix Spike (1J03003-MS2)			Lab File ID: 1000312M.D			Analyzed: 10/27/11 02:38			
Phenanthrene-d10	163206	10.38	135386	10.361	121	50 - 200	0.0190	+/-0.50	
Perylene-d12	77512	17.101	75087	17.082	103	50 - 200	0.0190	+/-0.50	

INTERNAL STANDARD AREA AND RT SUMMARY
SW8270C

Laboratory:	Empirical Laboratories, LLC	SDG:	1110003
Client:	Tetra Tech NUS, Inc. (T010)	Project:	Navy Fuel Depot CTO JM46
Sequence:	1J30114	Instrument:	MS-BNA4
		Calibration:	1238006

Internal Standard	Response	RT	Reference Response	Reference RT	Area %	Area % Limits	RT Diff	RT Diff Limit	Q
Matrix Spike Dup (1J03003-MSD2)			Lab File ID: 1000312S.D			Analyzed: 10/27/11 03:07			
Phenanthrene-d10	159083	10.38	135386	10.361	118	50 - 200	0.0190	+/-0.50	
Perylene-d12	74909	17.092	75087	17.082	100	50 - 200	0.0100	+/-0.50	

INITIAL CALIBRATION DATA

SW8270C

Laboratory:	Empirical Laboratories, LLC	SDG:	1110003
Client:	Tetra Tech NUS, Inc. (T010)	Project:	Navy Fuel Depot CTO JM46
Calibration:	1238006	Instrument:	MS-BNA4
Matrix:	Water	Calibration Dates:	8/24/11 14:35 8/24/11 18:33

Compound	Level 01		Level 02		Level 03		Level 04		Level 05		Level 06	
	ug/mL	RF	ug/mL	RF	ug/mL	RF	ug/mL	RF	ug/mL	RF	ug/mL	RF
Acenaphthene	0.1	0.9250935	0.2	0.9137168	0.5	0.9364989	1	0.8390082	5	0.9269314	10	0.8393586
Acenaphthylene	0.1	1.310504	0.2	1.352461	0.5	1.271225	1	1.290937	5	1.386269	10	1.244926
Anthracene	0.1	1.06615	0.2	1.134831	0.5	1.101345	1	1.102299	5	1.188356	10	1.148519
Benzo(a)anthracene	0.1	0.5409415	0.2	0.6742062	0.5	0.5788873	1	0.7281002	5	0.6593813	10	0.7987934
Benzo(a)pyrene	0.1	1.378905	0.2	1.002256	0.5	1.016483	1	1.019308	5	1.075559	10	1.127809
Benzo(b)fluoranthene	0.1	1.122247	0.2	1.081127	0.5	1.238364	1	1.347532	5	1.400773	10	1.437569
Benzo(g,h,i)perylene	0.1	0.6978619	0.2	0.7632258	0.5	0.8646701	1	0.7961693	5	0.8182613	10	0.795468
Benzo(k)fluoranthene	0.1	1.344346	0.2	1.226983	0.5	1.325082	1	1.236505	5	1.347683	10	1.446366
1,4-Dioxane	0.1	~~0.2807645~~	0.2	~~0.3183737~~	0.5	0.2708987	1	0.2169383	5	0.2263519	10	0.1911079
Carbazole	0.1	0.805164	0.2	0.748765	0.5	0.726024	1	0.9099382	5	0.8356716	10	0.7480102
Chrysene	0.1	0.5955121	0.2	0.6734888	0.5	0.5942531	1	0.7589479	5	0.660282	10	0.8081928
Dibenz(a,h)anthracene	0.1	0.6888766	0.2	0.7301866	0.5	0.6212773	1	0.7604637	5	0.8511152	10	0.8183589
Dibenzofuran	0.1	1.109842	0.2	1.009951	0.5	1.079967	1	1.095555	5	1.119407	10	1.03878
Di-n-octylphthalate	0.1	2.081836	0.2	1.837604	0.5	2.382857	1	2.023149	5	2.484434	10	2.384983
Bis(2-ethylhexyl)phthalate	0.1	1.772648	0.2	1.402655	0.5	1.746382	1	1.492163	5	1.834525	10	1.578448
Fluoranthene	0.1	0.9437932	0.2	1.144311	0.5	0.9607296	1	1.154921	5	1.122071	10	1.164182
Fluorene	0.1	0.7208357	0.2	0.7935516	0.5	0.8908906	1	0.8564163	5	0.9304082	10	0.8408686
2-Fluorobiphenyl	0.1	0.9588967	0.2	1.008414	0.5	0.9847565	1	0.9339003	5	0.9920094	10	0.8838859
Hexachlorobenzene	0.1	0.3964686	0.2	0.40231	0.5	0.3521092	1	0.3729767	5	0.356676	10	0.3264119
Hexachlorobutadiene	0.1	0.2584688	0.2	0.2972103	0.5	0.2885062	1	0.299158	5	0.2873645	10	0.2588622
Hexachlorocyclopentadiene	0.1	0.1100403	0.2	0.1417898	0.5	0.1327695	1	0.1796596	5	0.2421029	10	0.2484514
Hexachloroethane	0.1		0.2		0.5		1		5		10	
Indeno(1,2,3-cd)pyrene	0.1	0.7780389	0.2	0.7517426	0.5	0.7584511	1	0.7398291	5	0.7760122	10	0.8214657
Isophorone	0.1	0.9161932	0.2	1.015639	0.5	1.054392	1	0.9941468	5	1.058899	10	0.9183759
1-Methylnaphthalene	0.1	0.9628524	0.2	0.8826634	0.5	0.9399633	1	0.8267998	5	0.8932794	10	0.7948718
2-Methylnaphthalene	0.1	0.9978244	0.2	0.8913748	0.5	0.9675566	1	0.8669293	5	0.9100694	10	0.7917116
Naphthalene	0.1	1.747878	0.2	1.602784	0.5	1.531261	1	1.442401	5	1.532498	10	1.3281
N-Nitrosodiphenylamine	0.1		0.2		0.5		1		5		10	
N-Nitroso-di-n-propylamine	0.1	0.3780387	0.2	0.3538853	0.5	0.3875892	1	0.3550856	5	0.3875937	10	0.3380094
Pentachlorophenol	0.1		0.2		0.5	~~4.401875E-02~~	1	7.394183E-02	5	0.1140907	10	0.1406113
Phenanthrene	0.1	1.100493	0.2	1.227222	0.5	1.113348	1	1.180057	5	1.188825	10	1.148797

INITIAL CALIBRATION DATA

SW8270C

Laboratory:	Empirical Laboratories, LLC	SDG:	1110003
Client:	Tetra Tech NUS, Inc. (T010)	Project:	Navy Fuel Depot CTO JM46
Calibration:	1238006	Instrument:	MS-BNA4
Matrix:	Water	Calibration Dates:	8/24/11 14:35 8/24/11 18:33

Compound	Level 01		Level 02		Level 03		Level 04		Level 05		Level 06	
	ug/mL	RF	ug/mL	RF	ug/mL	RF	ug/mL	RF	ug/mL	RF	ug/mL	RF
Pyrene	0.1	1.188956	0.2	1.014922	0.5	0.9682087	1	1.142021	5	1.1344	10	1.157542
Terphenyl-d14	0.1	0.5796893	0.2	0.6757435	0.5	0.5439169	1	0.6142371	5	0.613267	10	0.6844251
2,4,6-Tribromophenol	0.2	~~0.144293~~	0.4	~~0.1036649~~	1	0.1499083	2	0.1575348	10	0.1820851	20	0.1756278

INITIAL CALIBRATION DATA (Continued)

SW8270C

Laboratory:	Empirical Laboratories, LLC	SDG:	1110003
Client:	Tetra Tech NUS, Inc. (T010)	Project:	Navy Fuel Depot CTO JM46
Calibration:	1238006	Instrument:	MS-BNA4
Matrix:	Water	Calibration Dates:	8/24/11 14:35 8/24/11 18:33

Compound	Level 07		Level 08		Level 09		Level 10		Level 11		Level 12	
	ug/mL	RF	ug/mL	RF	ug/mL	RF	ug/mL	RF	ug/mL	RF	ug/mL	RF
Acenaphthene	20	0.8784872	50	0.8458228								
Acenaphthylene	20	1.297533	50	1.20877								
Anthracene	20	1.205372	50	1.177482								
Benzo(a)anthracene	20	0.7839756	50	0.8122166								
Benzo(a)pyrene	20	1.205292	50	1.177397								
Benzo(b)fluoranthene	20	1.575784	50	1.477207								
Benzo(g,h,i)perylene	20	0.9098913	50	0.885178								
Benzo(k)fluoranthene	20	1.46597	50	1.416125								
1,4-Dioxane	20	0.1978183	50	0.1858208								
Carbazole	20	~~0.533024~~	50	~~0.1673948~~								
Chrysene	20	0.7485348	50	0.7758677								
Dibenz(a,h)anthracene	20	0.9273779	50	0.9395602								
Dibenzofuran	20	1.080127	50	1.036678								
Di-n-octylphthalate	20	2.711246	50	2.357188								
Bis(2-ethylhexyl)phthalate	20	1.874446	50	1.507926								
Fluoranthene	20	1.131794	50	1.144791								
Fluorene	20	0.885353	50	0.8574573								
2-Fluorobiphenyl	20	0.9326552	50	0.8648192								
Hexachlorobenzene	20	0.3371224	50	0.3207613								
Hexachlorobutadiene	20	0.2757839	50	0.2544433								
Hexachlorocyclopentadiene	20	0.2872022	50	0.2795768								
Hexachloroethane	20		50									
Indeno(1,2,3-cd)pyrene	20	0.9101472	50	0.9226895								
Isophorone	20	0.9777567	50	0.8985924								
1-Methylnaphthalene	20	0.8391113	50	0.7766753								
2-Methylnaphthalene	20	0.8795573	50	0.8287812								
Naphthalene	20	1.40468	50	1.318393								
N-Nitrosodiphenylamine	20		50									
N-Nitroso-di-n-propylamine	20	0.3589454	50	0.3343617								
Pentachlorophenol	20	0.162175	50	0.1706571								
Phenanthrene	20	1.192468	50	1.157994								

INITIAL CALIBRATION DATA (Continued)

SW8270C

Laboratory:	Empirical Laboratories, LLC	SDG:	1110003
Client:	Tetra Tech NUS, Inc. (T010)	Project:	Navy Fuel Depot CTO JM46
Calibration:	1238006	Instrument:	MS-BNA4
Matrix:	Water	Calibration Dates:	8/24/11 14:35 8/24/11 18:33

Compound	Level 07		Level 08		Level 09		Level 10		Level 11		Level 12	
	ug/mL	RF	ug/mL	RF	ug/mL	RF	ug/mL	RF	ug/mL	RF	ug/mL	RF
Pyrene	20	1.154247	50	1.138918								
Terphenyl-d14	20	0.6894383	50	0.6732402								
2,4,6-Tribromophenol	40	0.1903821	100	0.183212								

INITIAL CALIBRATION DATA (Continued)

SW8270C

Laboratory:	Empirical Laboratories, LLC	SDG:	1110003
Client:	Tetra Tech NUS, Inc. (T010)	Project:	Navy Fuel Depot CTO JM46
Calibration:	1238006	Instrument:	MS-BNA4
Matrix:	Water	Calibration Dates:	8/24/11 14:35 8/24/11 18:33

Compound	Mean RF	RF RSD	Mean RT	RT RSD	Linear r	Quad COD	LIMIT	Q
Acenaphthene	0.8881147	4.765862	8.240375	8.005672E-02			CCC ()	*
Acenaphthylene	1.295328	4.367363	8.027625	8.607367E-02			15	
Anthracene	1.140544	4.254591	10.10862	0.0700752			15	
Benzo(a)anthracene	0.6970627	14.59061	13.80988	0.0529908			15	
Benzo(a)pyrene	1.125376	11.34597	16.38237	4.577814E-02			CCC ()	*
Benzo(b)fluoranthene	1.335075	13.04297	15.80187	8.137397E-02			15	
Benzo(g,h,i)perylene	0.8163407	8.478144	18.8055	4.843521E-02			15	
Benzo(k)fluoranthene	1.351132	6.606248	15.85263	0.0761119			15	
1,4-Dioxane	0.2148226	14.68292	1.8985	0.1928826			15	
Carbazole	0.7955955	8.720815	10.3205	3.570712E-02			15	
Chrysene	0.7018849	11.75411	13.87237	4.522786E-02			15	
Dibenz(a,h)anthracene	0.792152	14.22527	18.3905	4.438511E-02			15	
Dibenzofuran	1.071288	3.625778	8.45425	7.957409E-02			15	
Di-n-octylphthalate	2.282912	12.3476	15.27513	1.080603E-02			CCC ()	*
Bis(2-ethylhexyl)phthalate	1.651149	10.74033	14.01225	2.946812E-02			15	
Fluoranthene	1.095824	8.181104	11.52912	1.610412E-02			CCC ()	*
Fluorene	0.8469727	7.646974	8.87125	4.967807E-02			15	
2-Fluorobiphenyl	0.9449172	5.432361	7.39325	5.511184E-02			15	
Hexachlorobenzene	0.3581045	8.525264	9.53925	4.144637E-02			15	
Hexachlorobutadiene	0.2774747	6.561169	6.258125	4.708383E-02			CCC ()	*
Hexachlorocyclopentadiene	0.2026991	34.59102	7.123375	6.064274E-02	0.9992763		0.995	
Hexachloroethane							15	
Indeno(1,2,3-cd)pyrene	0.807297	8.877407	18.33625	0.0475878			15	
Isophorone	0.9792494	6.426912	5.56275	0.1266547			15	
1-Methylnaphthalene	0.8645271	7.716576	7.057125	4.664672E-02			15	
2-Methylnaphthalene	0.8917256	7.590679	6.94225	9.738335E-02			15	
Naphthalene	1.488499	9.765898	6.111375	7.795345E-02			15	
N-Nitrosodiphenylamine							CCC ()	
N-Nitroso-di-n-propylamine	0.3616886	5.751036	5.101875	0.1887678			15	
Pentachlorophenol	0.1322952	29.68742	9.7948	0.0847485		0.9994601	CCC ()	*
Phenanthrene	1.163651	3.638206	10.04475	7.061639E-02			15	
Pyrene	1.112402	6.963902	11.839	6.221472E-02			15	

INITIAL CALIBRATION DATA (Continued)

SW8270C

Laboratory:	Empirical Laboratories, LLC	SDG:	1110003
Client:	Tetra Tech NUS, Inc. (T010)	Project:	Navy Fuel Depot CTO JM46
Calibration:	1238006	Instrument:	MS-BNA4
Matrix:	Water	Calibration Dates:	8/24/11 14:35 8/24/11 18:33

Compound	Mean RF	RF RSD	Mean RT	RT RSD	Linear r	Quad COD	LIMIT	Q
Terphenyl-d14	0.6342447	8.591082	12.10513	2.846396E-02			15	
2,4,6-Tribromophenol	0.173125	9.199082	9.170834	8.799438E-02			15	

INITIAL CALIBRATION CHECK

SW8270C

Laboratory:	Empirical Laboratories, LLC	SDG:	1110003
Client:	Tetra Tech NUS, Inc. (T010)	Project:	Navy Fuel Depot CTO JM46
Instrument ID:	MS-BNA4	Calibration:	1238006
Lab File ID:	SEQ-ICV1.D	Calibration Date:	08/24/11 14:16
Sequence:	1H23712	Injection Date:	08/24/11
Lab Sample ID:	1H23712-ICV1	Injection Time:	19:02

		CONC. (ug/mL)		RESPONSE FACTOR			% DIFF / DRIFT	
COMPOUND	TYPE	STD	ICV	ICAL	ICV	MIN (#)	ICV	LIMIT (#)
Acenaphthene	A	5.000	5.510	0.8881147	0.9786847		10.2	20
Acenaphthylene	A	5.000	5.578	1.295328	1.445077		11.6	20
Anthracene	A	5.000	5.626	1.140544	1.283382		12.5	20
Benzo(a)anthracene	A	5.000	5.418	0.6970627	0.7552943		8.4	20
Benzo(a)pyrene	A	5.000	5.079	1.125376	1.143152		1.6	20
Benzo(b)fluoranthene	A	5.000	5.229	1.335075	1.39628		4.6	20
Benzo(g,h,i)perylene	A	5.000	5.076	0.8163407	0.8286846		1.5	20
Benzo(k)fluoranthene	A	5.000	5.414	1.351132	1.462908		8.3	20
Chrysene	A	5.000	5.424	0.7018849	0.7614294		8.5	20
Dibenz(a,h)anthracene	A	5.000	5.548	0.792152	0.8789424		11.0	20
Fluoranthene	A	5.000	5.359	1.095824	1.174563		7.2	20
Fluorene	A	5.000	5.736	0.8469727	0.9715661		14.7	20
Hexachlorobutadiene	A	5.000	5.930	0.2774747	0.3291088		18.6	20
Indeno(1,2,3-cd)pyrene	A	5.000	5.009	0.807297	0.808753		0.2	20
1-Methylnaphthalene	A	5.000	4.971	0.8645271	0.8594861		-0.6	20
2-Methylnaphthalene	A	5.000	5.068	0.8917256	0.9037654		1.4	20
Naphthalene	A	5.000	5.687	1.488499	1.69304		13.7	20
Pentachlorophenol	Q	5.000	4.982	0.1322952	0.1281199		-0.4	20
Phenanthrene	A	5.000	5.574	1.163651	1.297238		11.5	20
Pyrene	A	5.000	5.539	1.112402	1.232241		10.8	20
2-Fluorobiphenyl	A	5.000	5.058	0.9449172	0.9558622		1.2	20
Terphenyl-d14	A	5.000	5.406	0.6342447	0.6857866		8.1	20
2,4,6-Tribromophenol	A	10.00	11.07	0.173125	0.1915846		10.7	20

Column to be used to flag Response Factor and %Diff/Drift values with an asterisk

* Values outside of QC limits

CONTINUING CALIBRATION CHECK

SW8270C

Laboratory:	Empirical Laboratories, LLC	SDG:	1110003
Client:	Tetra Tech NUS, Inc. (T010)	Project:	Navy Fuel Depot CTO JM46
Instrument ID:	MS-BNA4	Calibration:	1238006
Lab File ID:	SEQ-CCV2.D	Calibration Date:	08/24/11 14:16
Sequence:	1J30114	Injection Date:	10/26/11
Lab Sample ID:	1J30114-CCV1	Injection Time:	21:14

		CONC. (ug/mL)		RESPONSE FACTOR			% DIFF / DRIFT	
COMPOUND	TYPE	STD	CCV	ICAL	CCV	MIN (#)	CCV	LIMIT (#)
Acenaphthene	A	5.000	4.885	0.8881147	0.8677382		-2.3	20
Acenaphthylene	A	5.000	5.131	1.295328	1.329307		2.6	20
Anthracene	A	5.000	4.848	1.140544	1.106001		-3.0	20
Benzo(a)anthracene	A	5.000	5.693	0.6970627	0.7937025		13.9	20
Benzo(a)pyrene	A	5.000	4.967	1.125376	1.11806		-0.7	20
Benzo(b)fluoranthene	A	5.000	4.805	1.335075	1.282928		-3.9	20
Benzo(g,h,i)perylene	A	5.000	5.721	0.8163407	0.9341031		14.4	20
Benzo(k)fluoranthene	A	5.000	4.888	1.351132	1.320998		-2.2	20
Chrysene	A	5.000	5.647	0.7018849	0.7927437		12.9	20
Dibenz(a,h)anthracene	A	5.000	5.648	0.792152	0.894834		13.0	20
Fluoranthene	A	5.000	5.066	1.095824	1.110314		1.3	20
Fluorene	A	5.000	5.188	0.8469727	0.8788471		3.8	20
Hexachlorobutadiene	A	5.000	4.948	0.2774747	0.2745838		-1.0	20
Indeno(1,2,3-cd)pyrene	A	5.000	5.464	0.807297	0.8822726		9.3	20
1-Methylnaphthalene	A	5.000	4.969	0.8645271	0.8591346		-0.6	20
2-Methylnaphthalene	A	5.000	4.902	0.8917256	0.87434		-1.9	20
Naphthalene	A	5.000	4.671	1.488499	1.39045		-6.6	20
Pentachlorophenol	Q	5.000	3.650	0.1322952	8.382994E-02		-27.0	20 *
Phenanthrene	A	5.000	4.869	1.163651	1.13321		-2.6	20
Pyrene	A	5.000	5.043	1.112402	1.12198		0.9	20
2-Fluorobiphenyl	A	5.000	5.236	0.9449172	0.9894465		4.7	20
Terphenyl-d14	A	5.000	5.778	0.6342447	0.7329945		15.6	20
2,4,6-Tribromophenol	A	10.00	9.616	0.173125	0.1664877		-3.8	20

Column to be used to flag Response Factor and %Diff/Drift values with an asterisk

* Values outside of QC limits

ANALYSIS DATA SHEET

Blank

Laboratory: Empirical Laboratories, LLC SDG: 1110003

Client: Tetra Tech NUS, Inc. (T010) Project: Navy Fuel Depot CTO JM46

Matrix: Laboratory ID: 1J03003-BLK2 File ID: J03003B1.D

Sampled: Prepared: Analyzed: 10/26/11 22:13

Solids: Preparation: EXT_3510 Dilution:

Batch: 1J03003 Sequence: 1J30114 Calibration: 1238006 Instrument: MS-BNA4

CAS NO.	COMPOUND	CONC. (ug/L)	DL	LOD	LOQ	Q
83-32-9	Acenaphthene		0.0500	0.100	0.200	U
208-96-8	Acenaphthylene		0.0500	0.100	0.200	U
120-12-7	Anthracene		0.0500	0.100	0.200	U
56-55-3	Benzo(a)anthracene		0.0500	0.100	0.200	U
50-32-8	Benzo(a)pyrene		0.0500	0.100	0.200	U
205-99-2	Benzo(b)fluoranthene		0.0500	0.100	0.200	U
191-24-2	Benzo(g,h,i)perylene		0.0500	0.100	0.200	U
207-08-9	Benzo(k)fluoranthene		0.0500	0.100	0.200	U
218-01-9	Chrysene		0.0500	0.100	0.200	U
53-70-3	Dibenz(a,h)anthracene		0.0500	0.100	0.200	U
206-44-0	Fluoranthene		0.0500	0.100	0.200	U
86-73-7	Fluorene		0.0500	0.100	0.200	U
87-68-3	Hexachlorobutadiene		0.250	0.500	1.00	U
193-39-5	Indeno(1,2,3-cd)pyrene		0.0500	0.100	0.200	U
90-12-0	1-Methylnaphthalene		0.0500	0.100	0.200	U
91-57-6	2-Methylnaphthalene		0.0500	0.100	0.200	U
91-20-3	Naphthalene		0.0500	0.100	0.200	U
87-86-5	Pentachlorophenol		1.00	2.00	4.00	Q, Y, U
85-01-8	Phenanthrene	0.0807	0.0500	0.100	0.200	I
129-00-0	Pyrene		0.0500	0.100	0.200	U

SYSTEM MONITORING COMPOUND	ADDED (ug/L)	CONC (ug/L)	% REC	QC LIMITS	Q
2-Fluorobiphenyl	50.00	33.08	66.2	34 - 167	
Terphenyl-d14	50.00	51.23	102	34 - 167	
2,4,6-Tribromophenol	100.0	77.13	77.1	34 - 167	

ANALYSIS DATA SHEET

LCS

Laboratory: Empirical Laboratories, LLC SDG: 1110003

Client: Tetra Tech NUS, Inc. (T010) Project: Navy Fuel Depot CTO JM46

Matrix: Laboratory ID: 1J03003-BS2 File ID: J03003L1.D

Sampled: Prepared: Analyzed: 10/26/11 21:44

Solids: Preparation: EXT_3510 Dilution:

Batch: 1J03003 Sequence: 1J30114 Calibration: 1238006 Instrument: MS-BNA4

CAS NO.	COMPOUND	CONC. (ug/L)	DL	LOD	LOQ	Q
83-32-9	Acenaphthene	0.8291	0.0500	0.100	0.200	
208-96-8	Acenaphthylene	0.7446	0.0500	0.100	0.200	
120-12-7	Anthracene	0.7488	0.0500	0.100	0.200	
56-55-3	Benzo(a)anthracene	0.6774	0.0500	0.100	0.200	
50-32-8	Benzo(a)pyrene	0.7066	0.0500	0.100	0.200	
205-99-2	Benzo(b)fluoranthene	0.8918	0.0500	0.100	0.200	
191-24-2	Benzo(g,h,i)perylene	0.8614	0.0500	0.100	0.200	
207-08-9	Benzo(k)fluoranthene	0.9075	0.0500	0.100	0.200	
218-01-9	Chrysene	0.6761	0.0500	0.100	0.200	
53-70-3	Dibenz(a,h)anthracene	0.8001	0.0500	0.100	0.200	
206-44-0	Fluoranthene	0.8664	0.0500	0.100	0.200	
86-73-7	Fluorene	0.8667	0.0500	0.100	0.200	
87-68-3	Hexachlorobutadiene	0.8133	0.250	0.500	1.00	I
193-39-5	Indeno(1,2,3-cd)pyrene	0.8631	0.0500	0.100	0.200	
90-12-0	1-Methylnaphthalene	0.8807	0.0500	0.100	0.200	
91-57-6	2-Methylnaphthalene	0.8372	0.0500	0.100	0.200	
91-20-3	Naphthalene	0.7847	0.0500	0.100	0.200	
87-86-5	Pentachlorophenol	1.262	1.00	2.00	4.00	Y, I
85-01-8	Phenanthrene	0.9740	0.0500	0.100	0.200	
129-00-0	Pyrene	0.7948	0.0500	0.100	0.200	

SYSTEM MONITORING COMPOUND	ADDED (ug/L)	CONC (ug/L)	% REC	QC LIMITS	Q
2-Fluorobiphenyl	50.00	40.08	80.2	34 - 167	
Terphenyl-d14	50.00	41.10	82.2	34 - 167	
2,4,6-Tribromophenol	100.0	71.67	71.7	34 - 167	

ANALYSIS DATA SHEET

Matrix Spike

Laboratory: Empirical Laboratories, LLC SDG: 1110003

Client: Tetra Tech NUS, Inc. (T010) Project: Navy Fuel Depot CTO JM46

Matrix: Laboratory ID: 1J03003-MS2 File ID: 1000312M.D

Sampled: Prepared: Analyzed: 10/27/11 02:38

Solids: Preparation: EXT_3510 Dilution:

Batch: 1J03003 Sequence: 1J30114 Calibration: 1238006 Instrument: MS-BNA4

CAS NO.	COMPOUND	CONC. (ug/L)	DL	LOD	LOQ	Q
83-32-9	Acenaphthene	33.12	0.0463	0.0926	0.185	
208-96-8	Acenaphthylene	27.56	0.0463	0.0926	0.185	
120-12-7	Anthracene	33.06	0.0463	0.0926	0.185	
56-55-3	Benzo(a)anthracene	44.99	0.0463	0.0926	0.185	
50-32-8	Benzo(a)pyrene	36.96	0.0463	0.0926	0.185	
205-99-2	Benzo(b)fluoranthene	39.70	0.0463	0.0926	0.185	
191-24-2	Benzo(g,h,i)perylene	39.97	0.0463	0.0926	0.185	
207-08-9	Benzo(k)fluoranthene	38.82	0.0463	0.0926	0.185	
218-01-9	Chrysene	41.25	0.0463	0.0926	0.185	
53-70-3	Dibenz(a,h)anthracene	42.60	0.0463	0.0926	0.185	
206-44-0	Fluoranthene	38.34	0.0463	0.0926	0.185	
86-73-7	Fluorene	33.50	0.0463	0.0926	0.185	
87-68-3	Hexachlorobutadiene	27.44	0.231	0.463	0.926	
193-39-5	Indeno(1,2,3-cd)pyrene	41.21	0.0463	0.0926	0.185	
90-12-0	1-Methylnaphthalene	35.18	0.0463	0.0926	0.185	
91-57-6	2-Methylnaphthalene	31.21	0.0463	0.0926	0.185	
91-20-3	Naphthalene	28.78	0.0463	0.0926	0.185	
87-86-5	Pentachlorophenol	24.96	0.926	1.85	3.70	Y
85-01-8	Phenanthrene	34.32	0.0463	0.0926	0.185	
129-00-0	Pyrene	38.79	0.0463	0.0926	0.185	

SYSTEM MONITORING COMPOUND	ADDED (ug/L)	CONC (ug/L)	% REC	QC LIMITS	Q
2-Fluorobiphenyl	46.30	26.54	57.3	34 - 167	
Terphenyl-d14	46.30	18.08	39.1	34 - 167	
2,4,6-Tribromophenol	92.59	53.91	58.2	34 - 167	

ANALYSIS DATA SHEET

Matrix Spike Dup

Laboratory: Empirical Laboratories, LLC SDG: 1110003

Client: Tetra Tech NUS, Inc. (T010) Project: Navy Fuel Depot CTO JM46

Matrix: Laboratory ID: 1J03003-MSD2 File ID: 1000312S.D

Sampled: Prepared: Analyzed: 10/27/11 03:07

Solids: Preparation: EXT_3510 Dilution:

Batch: 1J03003 Sequence: 1J30114 Calibration: 1238006 Instrument: MS-BNA4

CAS NO.	COMPOUND	CONC. (ug/L)	DL	LOD	LOQ	Q
83-32-9	Acenaphthene	25.76	0.0463	0.0926	0.185	
208-96-8	Acenaphthylene	22.03	0.0463	0.0926	0.185	
120-12-7	Anthracene	26.75	0.0463	0.0926	0.185	
56-55-3	Benzo(a)anthracene	35.15	0.0463	0.0926	0.185	
50-32-8	Benzo(a)pyrene	29.38	0.0463	0.0926	0.185	
205-99-2	Benzo(b)fluoranthene	31.33	0.0463	0.0926	0.185	
191-24-2	Benzo(g,h,i)perylene	32.20	0.0463	0.0926	0.185	
207-08-9	Benzo(k)fluoranthene	31.66	0.0463	0.0926	0.185	
218-01-9	Chrysene	32.54	0.0463	0.0926	0.185	
53-70-3	Dibenz(a,h)anthracene	33.31	0.0463	0.0926	0.185	
206-44-0	Fluoranthene	30.12	0.0463	0.0926	0.185	
86-73-7	Fluorene	27.45	0.0463	0.0926	0.185	
87-68-3	Hexachlorobutadiene	21.37	0.231	0.463	0.926	
193-39-5	Indeno(1,2,3-cd)pyrene	32.58	0.0463	0.0926	0.185	
90-12-0	1-Methylnaphthalene	27.88	0.0463	0.0926	0.185	
91-57-6	2-Methylnaphthalene	24.73	0.0463	0.0926	0.185	
91-20-3	Naphthalene	22.71	0.0463	0.0926	0.185	
87-86-5	Pentachlorophenol	15.14	0.926	1.85	3.70	Y
85-01-8	Phenanthrene	28.27	0.0463	0.0926	0.185	
129-00-0	Pyrene	30.61	0.0463	0.0926	0.185	

SYSTEM MONITORING COMPOUND	ADDED (ug/L)	CONC (ug/L)	% REC	QC LIMITS	Q
2-Fluorobiphenyl	46.30	20.53	44.3	34 - 167	
Terphenyl-d14	46.30	9.852	21.3	34 - 167	
2,4,6-Tribromophenol	92.59	30.44	32.9	34 - 167	

HOLDING TIME SUMMARY

SW8270C

Laboratory: Empirical Laboratories, LLC SDG: 1110003

Client: Tetra Tech NUS, Inc. (T010) Project: Navy Fuel Depot CTO JM46

Sample Name	Date Collected	Date Received	Date Prepared	Days to Prep	Max Days to Prep	Date Analyzed	Days to Analysis	Max Days to Analysis	Q
FLC-4-MW01-092911	09/29/11 08:20	10/01/11 09:10	10/03/11 12:10	4.20	7.00	10/26/11 22:43	23.44	40.00	
FLC-4-MW02-092911	09/29/11 09:30	10/01/11 09:10	10/03/11 12:10	4.15	7.00	10/26/11 23:12	23.46	40.00	
FLC-5-MW05-092911	09/29/11 11:25	10/01/11 09:10	10/03/11 12:10	4.07	7.00	10/26/11 23:42	23.48	40.00	
FLC-5-MW04-092911	09/29/11 12:50	10/01/11 09:10	10/03/11 12:10	4.01	7.00	10/27/11 00:11	23.50	40.00	
FLC-5-MW03-092911	09/29/11 14:00	10/01/11 09:10	10/03/11 12:10	3.97	7.00	10/27/11 00:41	23.52	40.00	
FLC-RB02-092911	09/29/11 14:35	10/01/11 09:10	10/03/11 12:10	3.94	7.00	10/27/11 01:10	23.54	40.00	
FLC-5-MW01-092911	09/30/11 09:15	10/01/11 09:10	10/03/11 12:10	3.16	7.00	10/27/11 01:39	23.56	40.00	
FLC-5-MW02-092911	09/30/11 11:05	10/01/11 09:10	10/03/11 12:10	3.09	7.00	10/27/11 02:09	23.58	40.00	

Data for SW8270C
Supporting Raw Data / Logs

Sequence Name: C:\msdchem\1\sequence\082411b4.S
Comment: EPA8270
Operator: MEC
Data Path: D:\DATA\082411B4\
Instrument Control Pre-Seq Cmd:
Data Analysis Pre-Seq Cmd:

Instrument Control Post-Seq Cmd:
Data Analysis Post-Seq Cmd:

94 8

8/25/11

Method Sections To Run
(X) Full Method
( ) Reprocessing Only

On A Barcode Mismatch
(X) Inject Anyway
( ) Don't Inject

Line			Sample Name/Misc Info
1)	Sample	1	SEQ-TUN1 DFBN4LOW DF0824B1;;;;;11G0602 14:16, 8/24
2)	Sample	2	SEQ-CAL1 IXBN4LOW CAL-0.10PPM;;;;;11D0430
3)	Sample	3	SEQ-CAL2 IXBN4LOW CAL-0.20PPM;;;;;11C0008
4)	Sample	4	SEQ-CAL3 IXBN4LOW CAL-0.50PPM;;;;;11C0009
5)	Sample	5	SEQ-CAL4 IXBN4LOW CAL-1.00PPM;;;;;11C0010
6)	Sample	6	SEQ-CAL5 IXBN4LOW CAL-5.00PPM;;;;;11C0011
7)	Sample	7	SEQ-CAL6 IXBN4LOW CAL-10.0PPM;;;;;11C0012
8)	Sample	8	SEQ-CAL7 IXBN4LOW CAL-20.0PPM;;;;;11C0013
9)	Sample	9	SEQ-CAL8 IXBN4LOW CAL-40.0PPM;;;;;11C0014 - Did not use
10)	Sample	10	SEQ-CAL9 IXBN4LOW CAL-50.0PPM;;;;;11C0015
11)	Sample	11	SEQ-ICV1 IXBN4LOW ICV-5.0PPM;;;;;11H0666 19:02, 8/24

Last Modified: Thu Aug 25 12:53:58 2011

Data File: \\ELABNSH05\TARGET\chem\bna4.i\082411B4.b\SEQ-TUN1.D

Date : 24-AUG-2011 14:16

Client ID: 50ppm DFTPP

Instrument: bna4.i

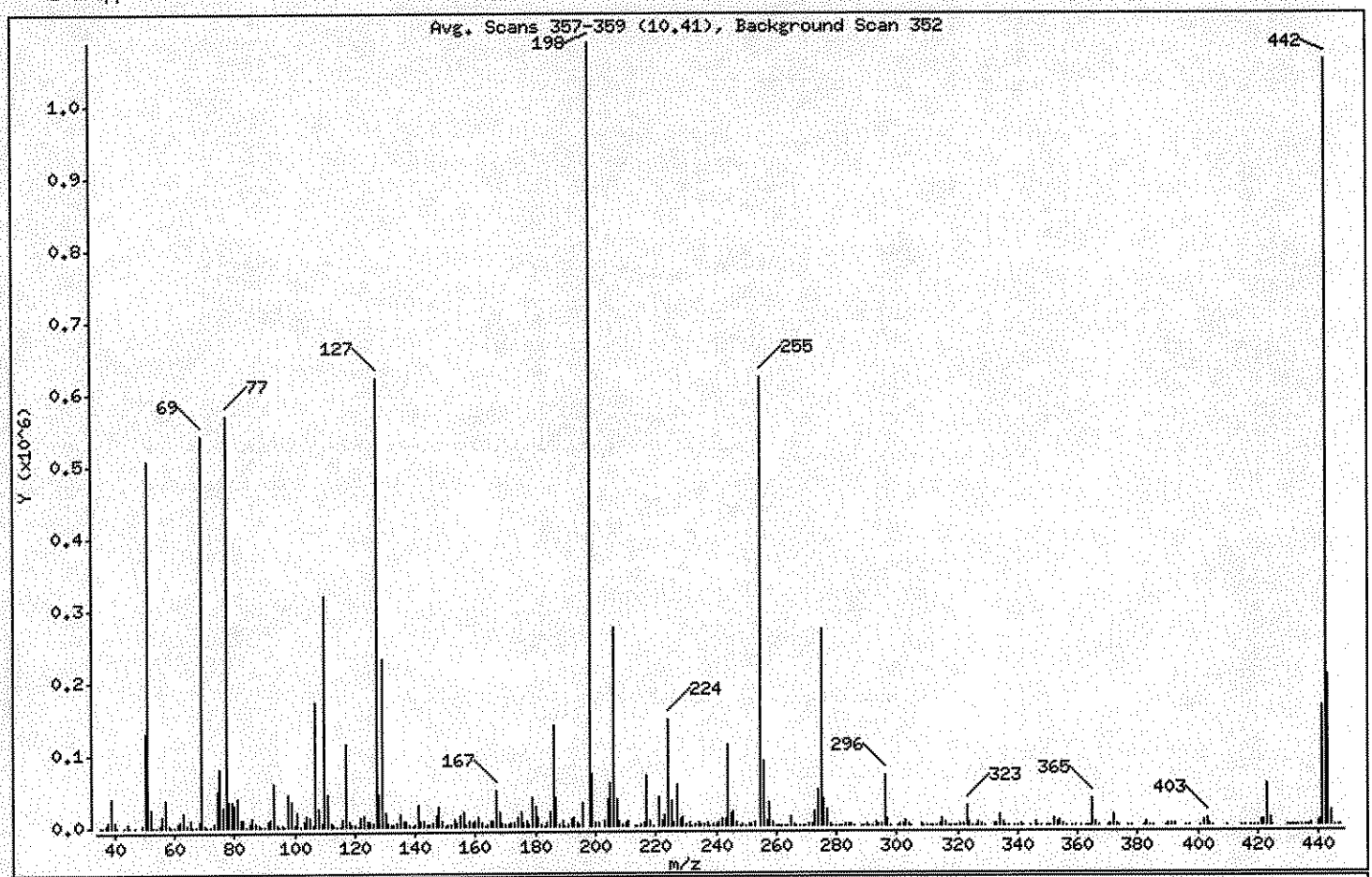
Sample Info: DF0824B1;;;;;11G0602

Operator: MEC

Column phase: DB5-MS

Column diameter: 0.25

1 dftpp



m/e	ION ABUNDANCE CRITERIA	% RELATIVE ABUNDANCE
198	Base Peak, 100% relative abundance	100.00
51	30.00 - 60.00% of mass 198	46.61
68	Less than 2.00% of mass 69	0.73 (1.46)
69	Mass 69 relative abundance	49.80
70	Less than 2.00% of mass 69	0.19 (0.38)
127	40.00 - 60.00% of mass 198	57.32
197	Less than 1.00% of mass 198	0.00
199	5.00 - 9.00% of mass 198	6.71
275	10.00 - 30.00% of mass 198	24.96
365	Greater than 1.00% of mass 198	3.37
441	Present, but less than mass 443	15.21
442	Greater than 40.00% of mass 198	97.74
443	17.00 - 23.00% of mass 442	19.08 (19.52)

MB 8/29/11

8/25/11

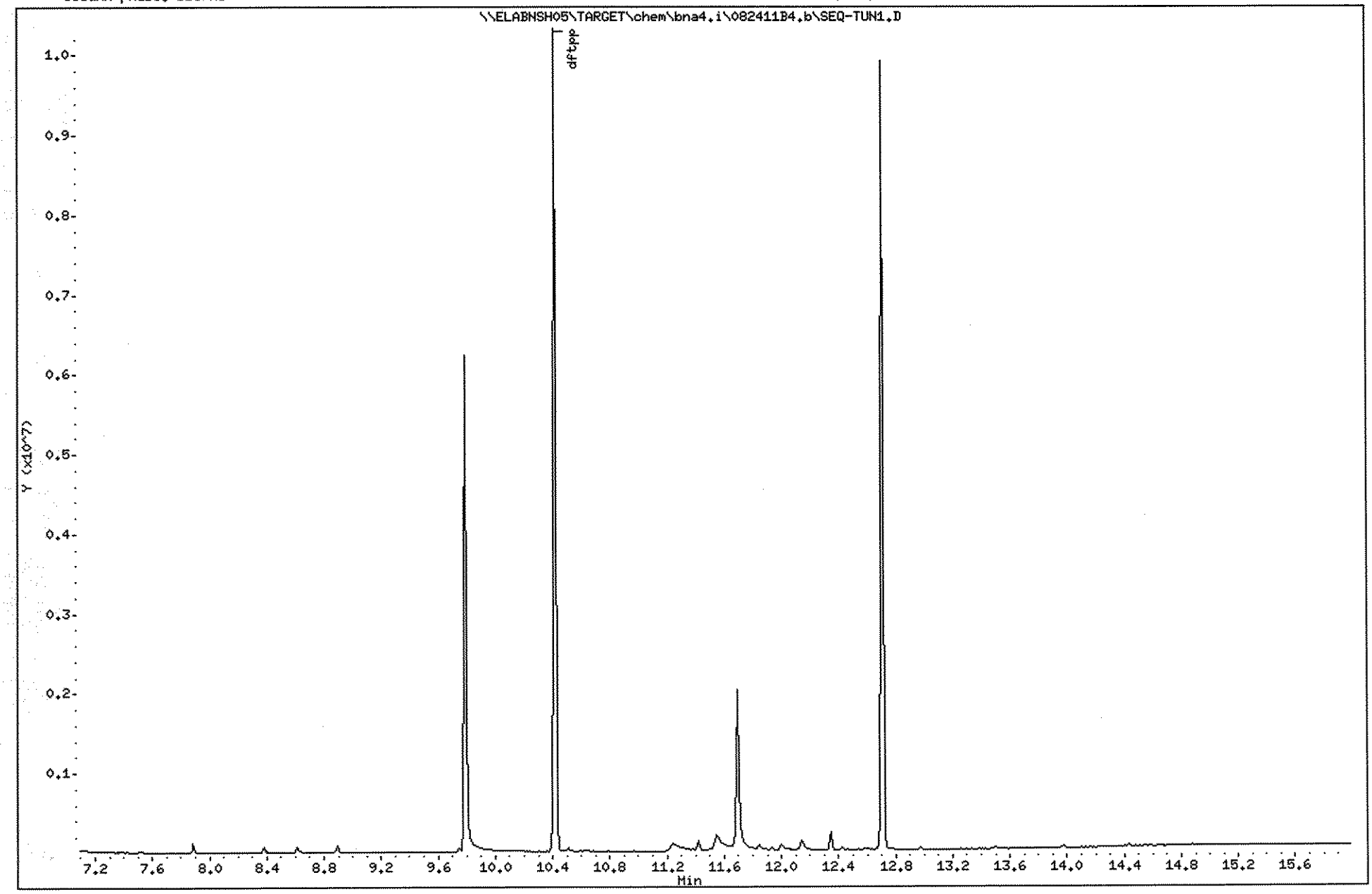
Data File: \\ELABNSH05\TARGET\chem\bna4.i\082411B4.b\SEQ-TUN1.D
Date : 24-AUG-2011 14:16
Client ID: 50ppm DFTPP
Sample Info: DF0824B1;;;;;11G0602

Instrument: bna4.i

Operator: MEC

Column phase: DB5-MS

Column diameter: 0.25



Data File: \\ELABNSH05\TARGET\chem\bna4.i\082411B4.b\SEQ-TUN1.D

Date : 24-AUG-2011 14:16

Client ID: 50ppm DFTPP

Instrument: bna4.i

Sample Info: DF0824B1;;;;;11G0602

Operator: MEC

Column phase: DB5-MS

Column diameter: 0.25

Data File: SEQ-TUN1.D
Spectrum: Avg. Scans 357-359 (10.41), Background Scan 352
Location of Maximum: 198.00
Number of points: 370

m/z	Y	m/z	Y	m/z	Y	m/z	Y
35.10	138	131.10	4502	228.00	9004	324.00	4866
36.00	474	132.00	1705	229.00	12159	325.10	402
37.10	2005	132.90	1315	230.10	2236	326.00	540
38.00	6378	134.00	5818	231.10	5125	327.00	4229
39.10	39464	135.10	18280	232.10	753	328.00	2854
40.00	6603	136.00	7029	233.00	1378	329.10	617
41.00	1236	137.10	6834	234.00	4842	332.10	2357
43.10	660	138.00	1788	234.90	3330	333.10	2133
44.10	4908	139.10	1200	236.00	2480	334.10	13837
45.00	1193	140.00	2025	237.00	4686	335.10	4338
47.00	423	141.00	28952	237.80	638	336.10	918
49.10	3558	141.90	7897	239.10	2160	336.90	216
50.10	131072	143.10	7384	240.10	1311	338.80	271
51.10	507136	144.00	1973	241.10	3979	340.00	651
52.10	24000	145.00	1425	242.00	8771	341.10	2919
53.00	1221	146.00	4848	243.10	9978	341.90	629
54.20	223	147.00	14151	244.10	113416	344.20	249
55.00	2457	148.00	28664	245.10	17808	346.00	5212
56.00	14955	149.00	6707	246.00	19448	347.00	649
57.00	37184	150.10	826	247.00	4497	348.10	204
58.10	1756	151.00	3216	247.90	1030	349.90	215
58.90	660	151.70	1992	248.30	1118	350.40	267
60.10	363	153.10	9624	249.00	3551	351.00	1000
61.00	5660	154.00	5769	249.90	869	352.10	8895
62.00	8086	155.00	15540	250.90	1294	353.10	6158
63.00	20144	156.10	21128	252.00	1826	354.10	7429
64.00	3316	157.00	3658	253.10	4117	354.90	1385
65.10	10893	157.90	6646	255.00	624000	356.30	256
66.00	799	159.00	5642	256.00	90392	358.20	112
67.10	956	160.00	7656	257.00	6302	359.20	573
68.10	7893	161.00	12251	258.00	33480	360.90	459
69.00	541824	162.00	4703	259.10	5279	362.70	252
70.00	2055	163.10	588	260.10	981	363.40	273
70.90	408	164.00	1664	260.80	427	364.00	433
72.20	303	165.00	8325	261.30	434	365.00	36664

Data File: \\ELABNSH05\TARGET\chem\bna4.i\082411B4.b\SEQ-TUN1.D

Date : 24-AUG-2011 14:16

Client ID: 50ppm DFTPP

Instrument: bna4.i

Sample Info: DF0824B1;;;;;11G0602

Operator: MEC

Column phase: DB5-MS

Column diameter: 0.25

Data File: SEQ-TUN1.D

Spectrum: Avg. Scans 357-359 (10.41), Background Scan 352

Location of Maximum: 198.00

Number of points: 370

m/z	Y	m/z	Y	m/z	Y	m/z	Y
73.00	4043	166.00	7207	262.20	346	366.00	5005
74.10	49112	167.00	49120	263.10	407	367.10	164
75.00	80200	168.00	20816	264.00	971	370.10	962
76.10	27680	168.90	4036	265.00	13079	371.00	2501
77.10	569728	170.00	1783	266.00	2803	372.10	14555
78.10	35456	170.90	2296	266.90	103	373.00	3418
79.00	36152	172.00	4430	267.70	582	374.00	404
80.00	29072	173.10	6027	269.10	291	376.90	521
81.00	39992	174.00	12520	270.00	785	378.00	157
81.90	9879	175.10	20560	271.00	2666	382.00	196
83.00	9046	176.00	5522	272.10	2995	383.00	3920
84.00	810	177.00	8099	273.00	19936	384.00	1004
85.00	5800	178.00	2592	274.00	49536	385.00	358
86.00	11610	179.00	41128	275.00	271616	389.10	199
87.00	4452	180.00	27560	276.00	36416	390.10	2362
88.00	1318	181.00	12872	277.00	21792	391.10	1338
89.00	916	182.00	1710	278.00	3399	392.20	1272
89.90	247	182.90	626	279.00	379	395.80	339
91.00	8746	184.00	4485	280.00	434	397.00	259
92.00	9130	185.10	20656	280.90	192	401.00	1146
93.00	59384	186.00	138816	282.00	874	402.00	6987
94.10	3526	187.00	40968	283.00	2871	403.10	8872
95.10	674	188.00	3592	284.10	1658	404.10	3391
96.10	3331	189.00	8228	285.00	3644	404.80	546
96.90	1175	189.90	1166	286.10	714	409.90	196
98.00	44512	191.00	3689	288.20	286	414.90	271
99.00	34736	192.00	10442	289.00	1193	416.10	173
100.00	2907	193.00	12985	290.00	1299	417.70	219
101.00	20352	194.10	3883	291.00	705	418.70	276
101.90	976	194.90	2118	292.10	709	419.80	134
103.00	6912	196.00	32528	293.00	4287	421.00	7606
104.00	14081	198.00	1088000	294.00	2124	422.00	7403
105.00	12574	199.00	72968	295.10	2637	423.10	57088
106.10	3327	200.00	6125	296.00	69536	424.00	10523
107.00	173248	201.50	4922	297.00	10565	424.80	1227

Data File: \\ELABNSH05\TARGET\chem\bna4.i\082411B4.b\SEQ-TUN1.D

Date : 24-AUG-2011 14:16

Client ID: 50ppm DFTPP

Instrument: bna4.i

Sample Info: DF0824B1;;;;;11G0602

Operator: MEC

Column phase: DB5-MS

Column diameter: 0.25

Data File: SEQ-TUN1.D

Spectrum: Avg. Scans 357-359 (10.41), Background Scan 352

Location of Maximum: 198.00

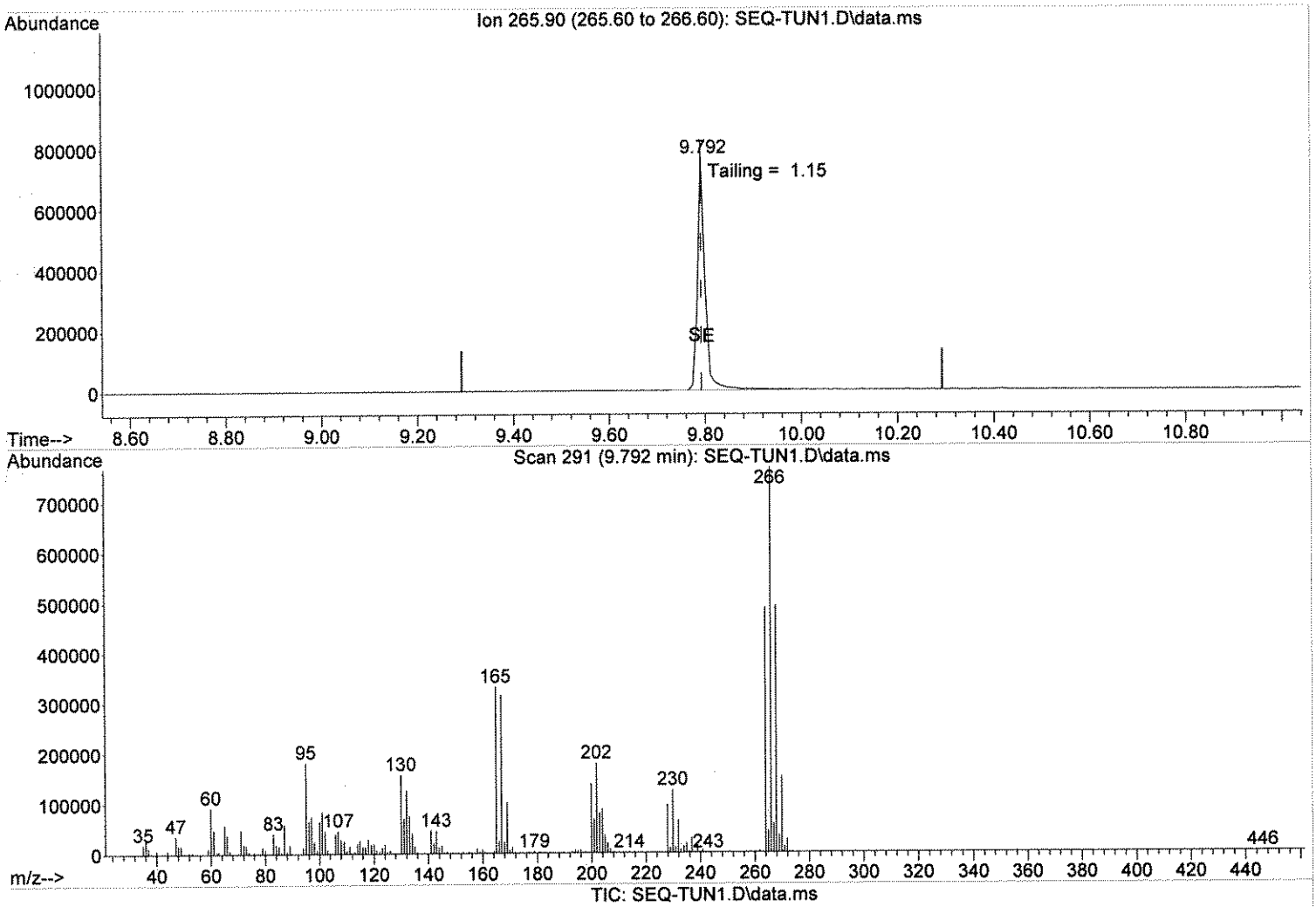
Number of points: 370

m/z	Y	m/z	Y	m/z	Y	m/z	Y
108.00	26152	203.00	7451	298.00	605	429.60	190
109.00	4944	204.00	37648	300.20	135	430.10	122
110.00	319552	205.00	59264	301.00	1305	430.80	245
111.00	43816	206.10	274752	302.10	1316	431.30	241
112.10	5010	207.10	37320	303.00	6982	431.90	131
113.00	1582	208.00	8671	304.00	2575	432.40	255
114.00	560	209.10	2570	304.90	372	433.10	326
115.20	628	210.10	3893	308.10	1713	434.40	659
116.00	9960	211.10	8320	308.90	626	435.40	854
117.00	114336	213.00	707	310.00	712	436.00	677
118.00	8149	214.00	478	311.10	337	436.90	812
119.00	1373	214.90	2603	312.10	389	437.70	1873
120.00	1876	216.10	4872	313.00	772	439.60	4716
121.10	587	217.00	70024	314.00	3665	440.20	7504
122.00	11336	218.00	7826	315.00	9322	441.00	165440
123.10	14790	219.00	917	316.10	4467	442.10	1063424
124.00	7473	221.00	41160	317.10	938	443.10	207616
125.00	6445	222.00	8021	317.80	129	444.10	20712
126.20	4835	223.00	15731	318.90	190	445.00	1250
127.00	623616	224.00	148288	319.70	160	446.20	808
128.00	46192	225.00	34144	321.00	1718	447.30	349
129.00	232320	226.10	3769	322.10	1608		
130.00	19416	227.00	57160	323.10	27128		

Quantitation Report (Qedit)

Data Path : D:\DATA\082411B4\
Data File : SEQ-TUN1.D
Acq On : 24 Aug 2011 2:16 pm
Operator : MEC
Sample : DF0824B1;;;;;11G0602
Misc : ;3;DFTPP;;;;all.sub;
ALS Vial : 1 Sample Multiplier: 1

Quant Time: Aug 25 12:42:42 2011
Quant Method : C:\MSDCHEM\1\METHODS\DFTPP.M
Quant Title : DFTPP EVALUATION
QLast Update : Thu Jun 30 14:07:24 2011
Response via : Initial Calibration



(1) pentachlorophenol

9.792min (+0.000) 0.00 m

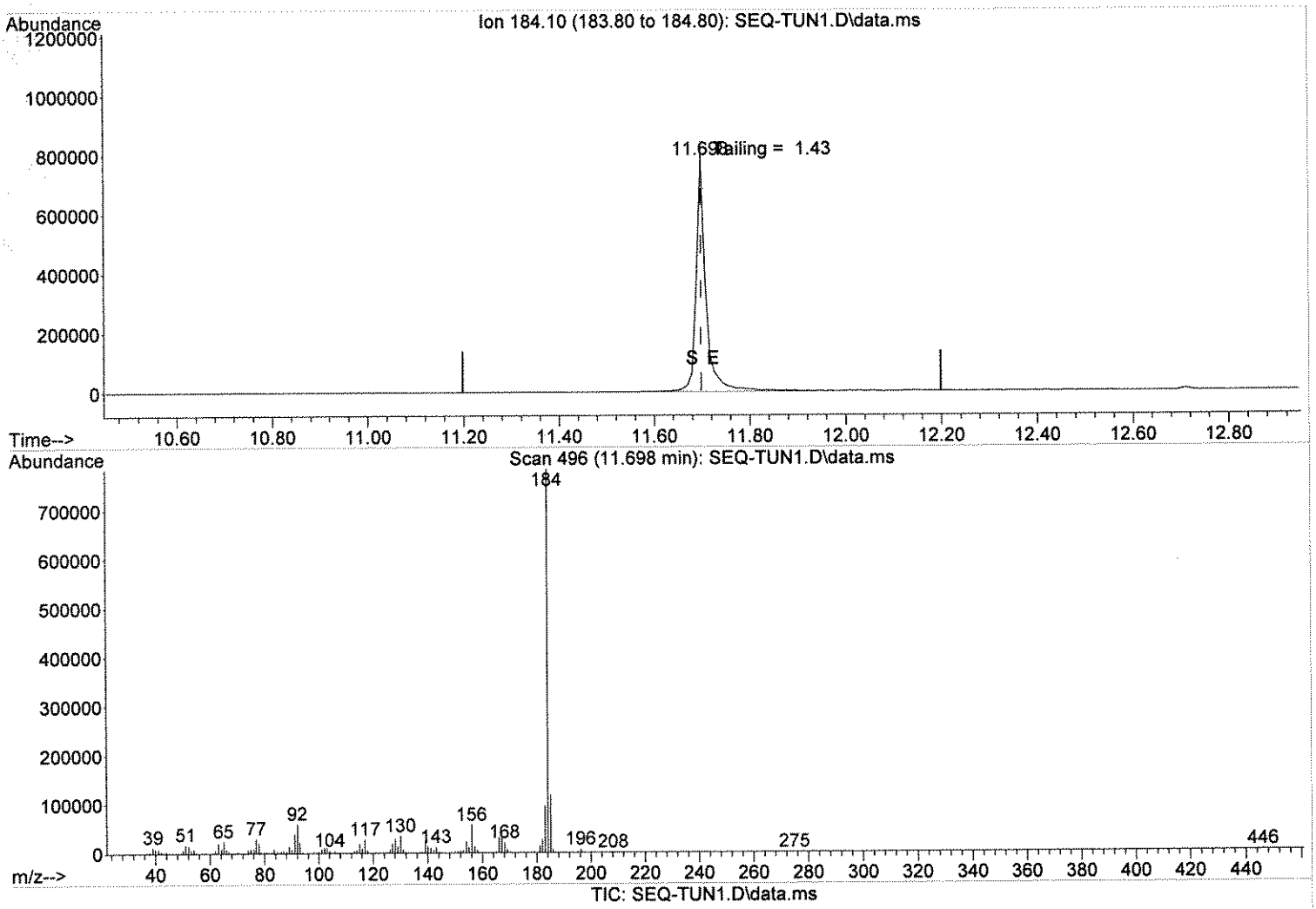
response 857816

Ion	Exp%	Act%
265.90	100	100
0.00	0.00	0.00
0.00	0.00	0.00
0.00	0.00	0.00

Quantitation Report (Qedit)

Data Path : D:\DATA\082411B4\
Data File : SEQ-TUN1.D
Acq On : 24 Aug 2011 2:16 pm
Operator : MEC
Sample : DF0824B1;;;;;11G0602
Misc : ;3;DFTPP;;;;all.sub;
ALS Vial : 1 Sample Multiplier: 1

Quant Time: Aug 25 12:42:42 2011
Quant Method : C:\MSDCHEM\1\METHODS\DFTPP.M
Quant Title : DFTPP EVALUATION
QLast Update : Thu Jun 30 14:07:24 2011
Response via : Initial Calibration



(2) benzidine

11.698min (-0.000) 0.00

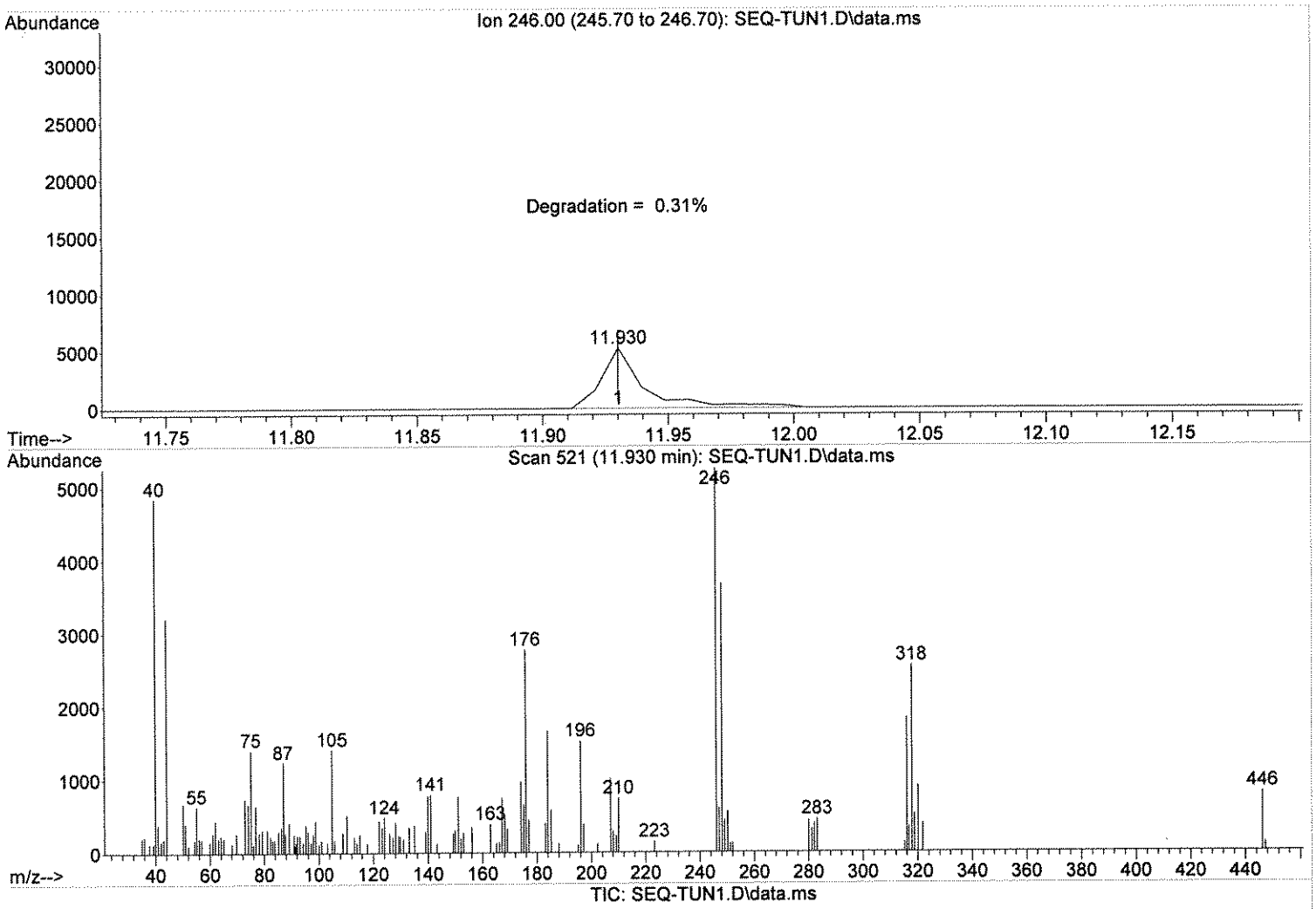
response 1127655

Ion	Exp%	Act%
184.10	100	100
0.00	0.00	0.00
0.00	0.00	0.00
0.00	0.00	0.00

Quantitation Report (Qedit)

Data Path : D:\DATA\082411B4\
Data File : SEQ-TUN1.D
Acq On : 24 Aug 2011 2:16 pm
Operator : MEC
Sample : DF0824B1;;;;;11G0602
Misc : ;3;DFTPP;;;;all.sub;
ALS Vial : 1 Sample Multiplier: 1

Quant Time: Aug 25 12:42:42 2011
Quant Method : C:\MSDCHEM\1\METHODS\DFTPP.M
Quant Title : DFTPP EVALUATION
QLast Update : Thu Jun 30 14:07:24 2011
Response via : Initial Calibration



(3) p,p'-DDE

11.930min (+0.000) 0.00 m

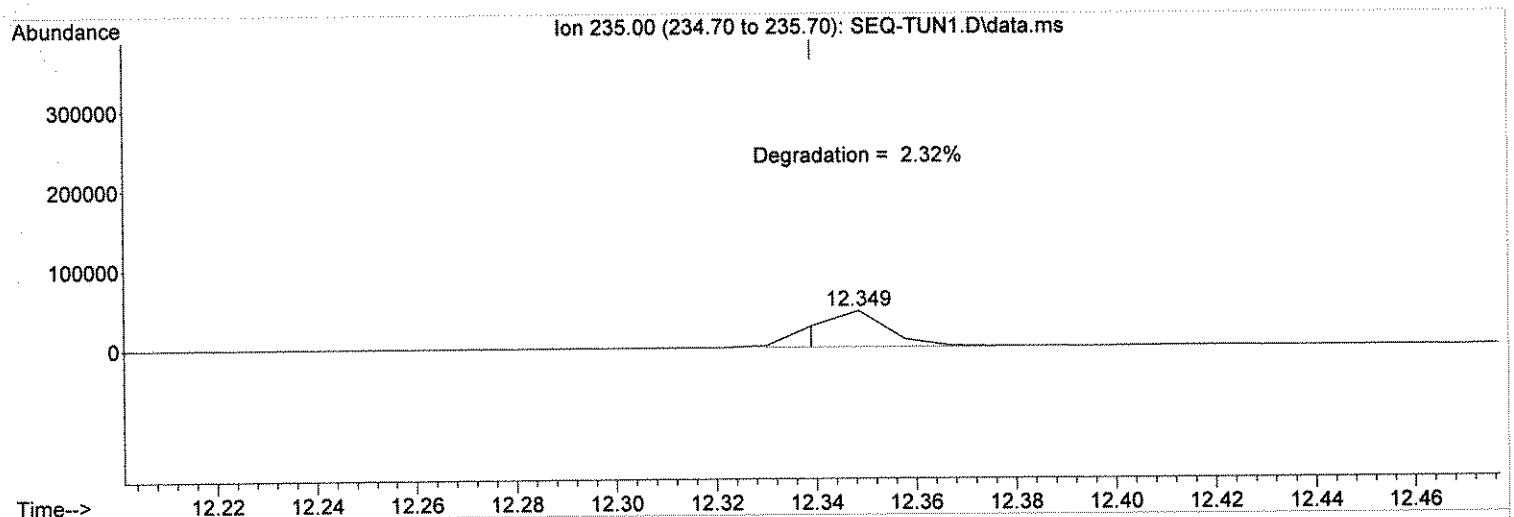
response 6184

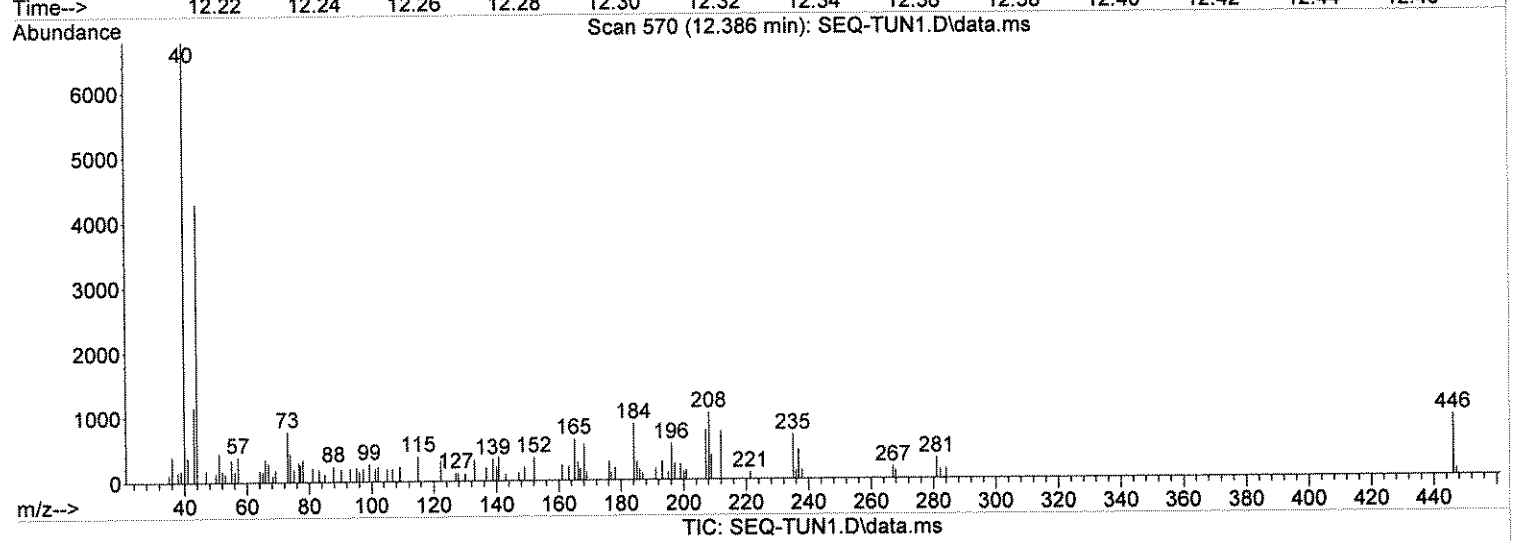
Ion	Exp%	Act%
246.00	100	100
0.00	0.00	0.00
0.00	0.00	0.00
0.00	0.00	0.00

Quantitation Report (Qedit)

Data Path : D:\DATA\082411B4\
Data File : SEQ-TUN1.D
Acq On : 24 Aug 2011 2:16 pm
Operator : MEC
Sample : DF0824B1;;;;;11G0602
Misc : ;3;DFTPP;;;;all.sub;
ALS Vial : 1 Sample Multiplier: 1

Quant Time: Aug 25 12:42:42 2011
Quant Method : C:\MSDCHEM\1\METHODS\DFTPP.M
Quant Title : DFTPP EVALUATION
QLast Update : Thu Jun 30 14:07:24 2011
Response via : Initial Calibration





(4) m,p'-DDD

12.349min (+0.010) 0.00 m

response 46815

Ion	Exp%	Act%
235.00	100	100
0.00	0.00	0.00
0.00	0.00	0.00
0.00	0.00	0.00

Data File: \\ELABNSH05\TARGET\chem\bna4.i\082411B4.b\SEQ-CAL1.D
Report Date: 25-Aug-2011 13:28

Laboratory Name

Data file : \\ELABNSH05\TARGET\chem\bna4.i\082411B4.b\SEQ-CAL1.D
Lab Smp Id: SEQ-CAL1 Client Smp ID: SEQ-CAL1
Inj Date : 24-AUG-2011 14:35 MS Autotune Date: 16-JUN-2011 16:30
Operator : MEC Inst ID: bna4.i
Smp Info : CAL-0.10PPM;;;;;11D0430
Misc Info : ;1;;;1;;pahmisc.sub;
Comment :
Method : \\ELABNSH05\TARGET\chem\bna4.i\082411B4.b\IXBN4LOW.m
Meth Date : 25-Aug-2011 13:28 mcobb Quant Type: ISTD
Cal Date : 24-AUG-2011 14:35 Cal File: SEQ-CAL1.D
Als bottle: 2 Calibration Sample, Level: 1
Dil Factor: 1.00000
Integrator: HP RTE Compound Sublist: pahmisc.sub
Target Version: 4.04
Processing Host: TARGET09_VM

VM 8/29/11

Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	AMOUNTS CAL-AMT (ng/ul)	AMOUNTS ON-COL (ng/ul)
* 102 Phenanthrene-d10	188	10.012	10.012	(1.000)	111232	1.00000	
4 1,4-Dioxane	88	1.906	1.906	(0.190)	3123	0.10000	0.1307
21 N-Nitroso-di-n-propylamine	70	5.104	5.104	(0.510)	4205	0.10000	0.1045
39 Isophorone	82	5.559	5.559	(0.555)	10191	0.10000	0.09356
51 Naphthalene	128	6.108	6.108	(0.610)	19442	0.10000	0.1174
53 Hexachlorobutadiene	225	6.257	6.257	(0.625)	2875	0.10000	0.09315
55 2-Methylnaphthalene	142	6.945	6.945	(0.694)	11099	0.10000	0.1119
56 1-Methylnaphthalene	142	7.056	7.056	(0.705)	10710	0.10000	0.1114
70 Hexachlorocyclopentadiene	237	7.121	7.121	(0.711)	1224	0.10000	0.3885
$ 74 2-Fluorobiphenyl	172	7.391	7.391	(0.738)	10666	0.10000	0.1015
77 Acenaphthylene	152	8.023	8.023	(0.801)	14577	0.10000	0.1012
80 Acenaphthene	153	8.237	8.237	(0.823)	10290	0.10000	0.1042
84 Dibenzofuran	168	8.451	8.451	(0.844)	12345	0.10000	0.1036
88 Fluorene	166	8.869	8.869	(0.886)	8018	0.10000	0.08511
104 Carbazole	167	10.328	10.328	(1.032)	8956	0.10000	0.1012
$ 107 2,4,6-Tribromophenol	330	9.176	9.176	(0.916)	3210	0.20000	0.1667
111 Phenanthrene	178	10.040	10.040	(1.003)	12241	0.10000	0.09457
109 Hexachlorobenzene	284	9.538	9.538	(0.953)	4410	0.10000	0.1107
112 Anthracene	178	10.105	10.105	(1.009)	11859	0.10000	0.09348
116 Fluoranthene	202	11.528	11.528	(1.151)	10498	0.10000	0.08613
134 Pyrene	202	11.844	11.844	(1.183)	13225	0.10000	0.1069
* 154 Perylene-d12	264	16.483	16.483	(1.000)	43404	1.00000	
$ 135 Terphenyl-d14	244	12.104	12.104	(1.209)	6448	0.10000	0.09140
138 Benzo(a)anthracene	228	13.815	13.815	(1.380)	6017	0.10000	0.07760
139 Chrysene	228	13.870	13.870	(1.385)	6624	0.10000	0.08484
140 Bis(2-ethylhexyl)phthalate	149	14.010	14.010	(0.850)	7694	0.10000	0.1074

8/25/11

Data File: \\ELABNSH05\TARGET\chem\bna4.i\082411B4.b\SEQ-CAL1.D
Report Date: 25-Aug-2011 13:28

Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	AMOUNTS CAL-AMT (ng/ul)	AMOUNTS ON-COL (ng/ul)
155 Di-n-octylphthalate	149	15.274	15.274	(0.927)	9036	0.10000	0.09119
156 Benzo(b)fluoranthene	252	15.804	15.804	(0.959)	4871	0.10000	0.08406
157 Benzo(k)fluoranthene	252	15.850	15.850	(0.962)	5835	0.10000	0.09950
158 Benzo(a)pyrene	252	16.380	16.380	(0.994)	5985	0.10000	0.1225
159 Indeno(1,2,3-cd)pyrene	276	18.342	18.342	(1.113)	3377	0.10000	0.09638
160 Dibenz(a,h)anthracene	278	18.388	18.388	(1.116)	2990	0.10000	0.08696(M)
161 Benzo(g,h,i)perylene	276	18.807	18.807	(1.141)	3029	0.10000	0.08549

QC Flag Legend

M - Compound response manually integrated.

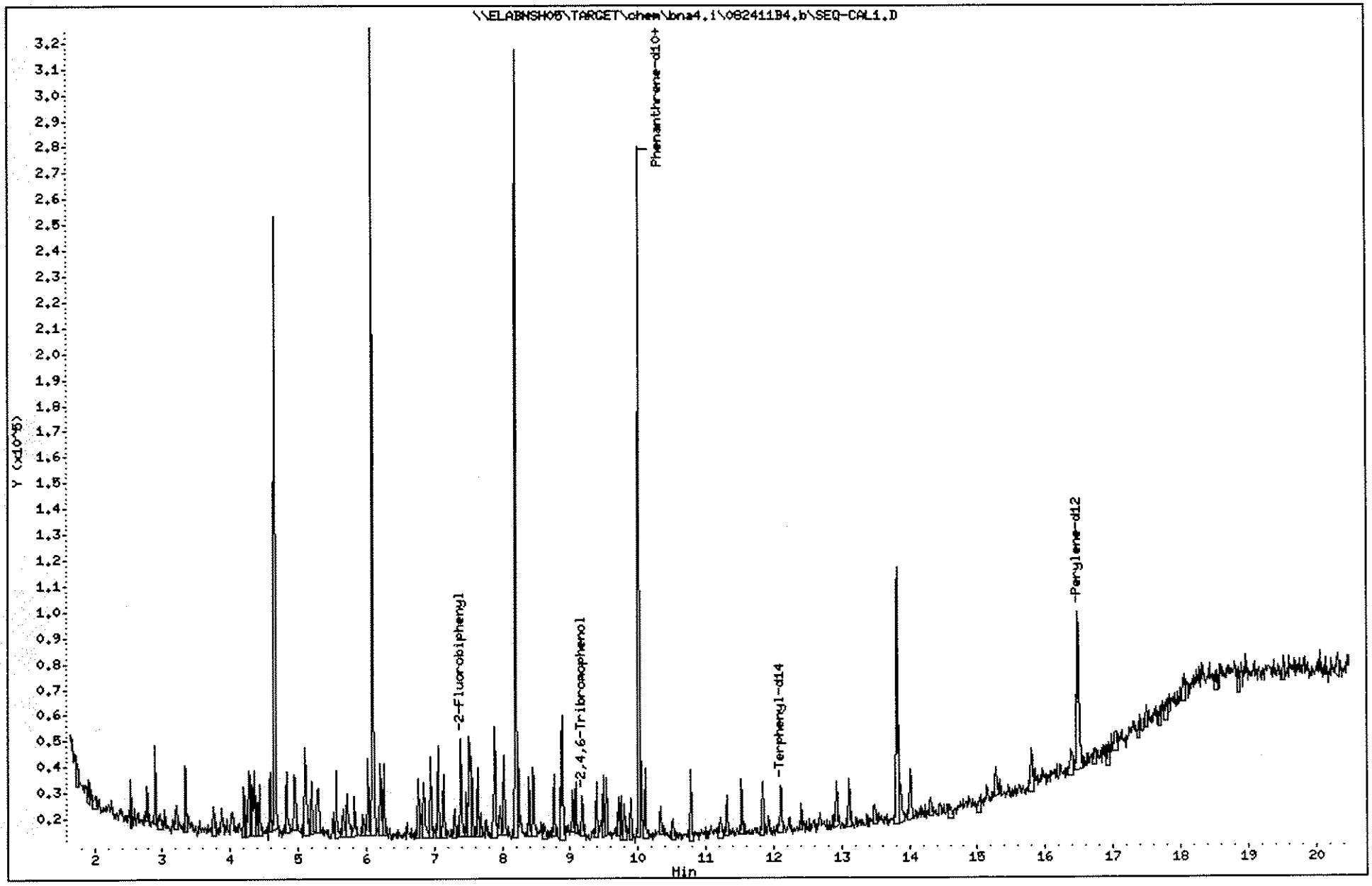
Data File: \\ELABNSHO5\TARGET\chem\bna4.i\082411B4.b\SEQ-CAL1.D
Date : 24-AUG-2011 14:35
Client ID: SEQ-CAL1
Sample Info: CAL-0.10PPM;;;;;11D0430

Instrument: bna4.i

Operator: MEC

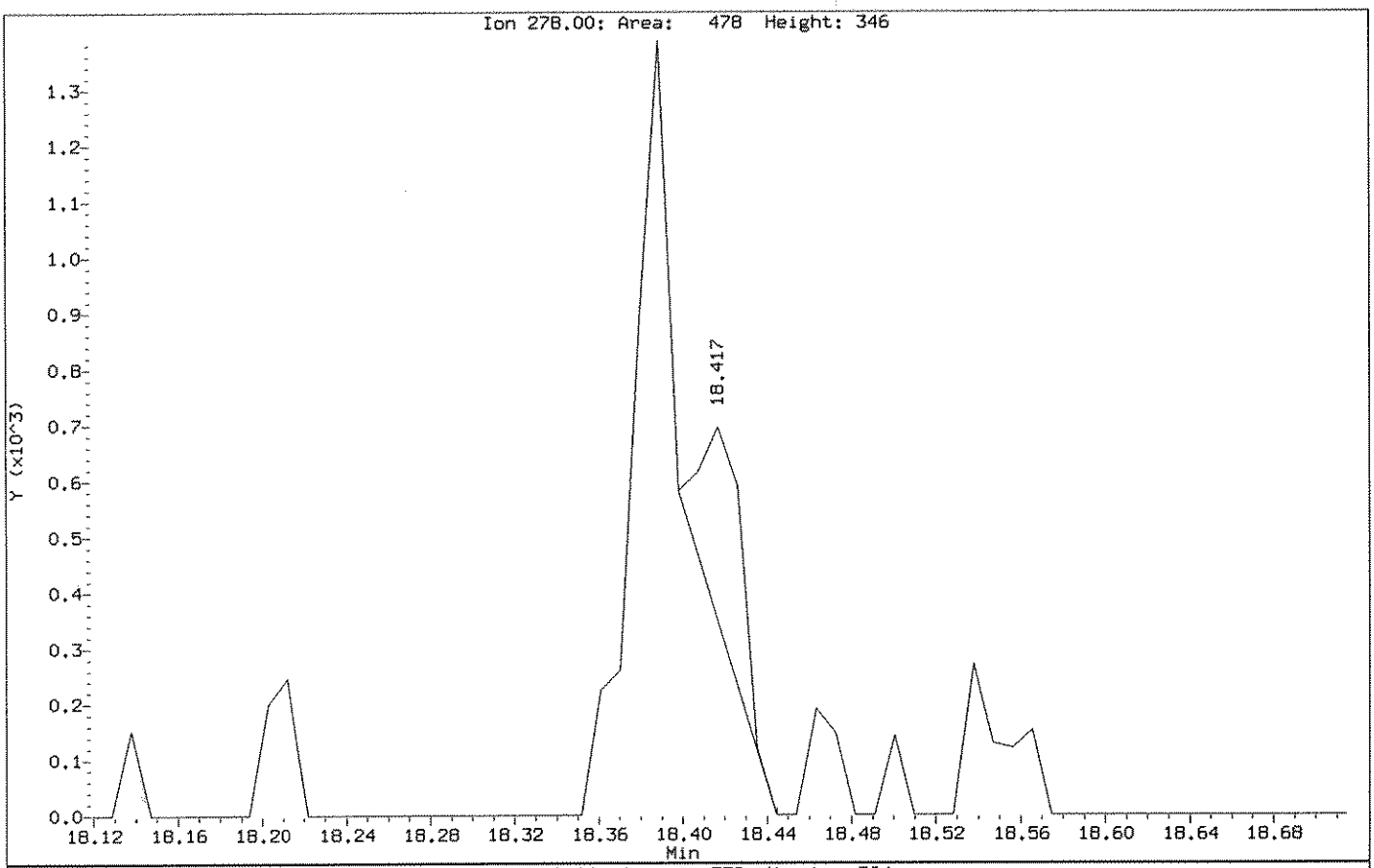
Column phase: fused silica

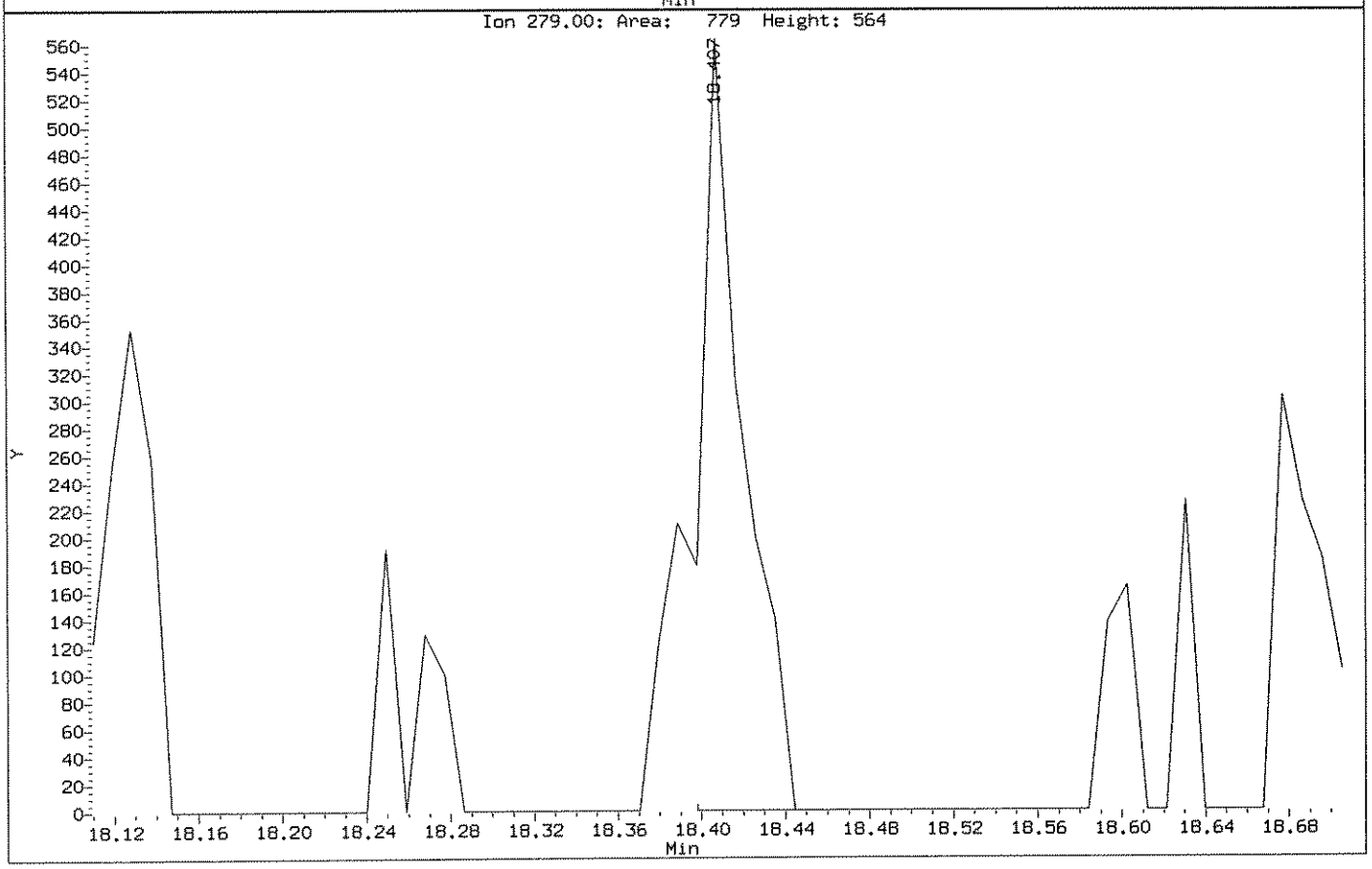
Column diameter: 0.25



Data File: \\ELABNSHO5\TARGET\chem\bna4.i\082411B4.b\SEQ-CAL1.D
Injection Date: 24-AUG-2011 14:35
Instrument: bna4.i
Client Sample ID: SEQ-CAL1

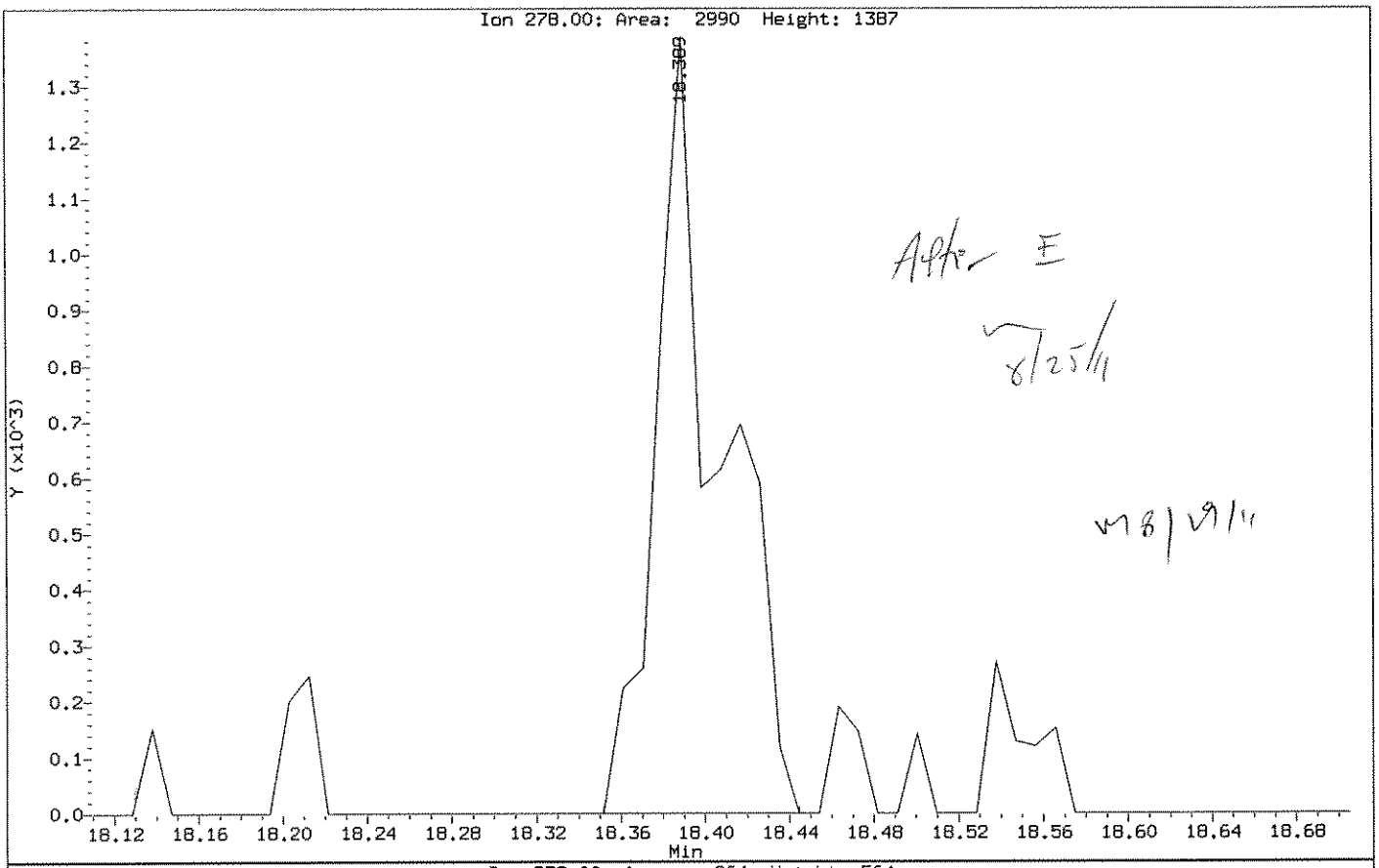
Compound: Dibenz(a,h)anthracene
CAS Number: 53-70-3

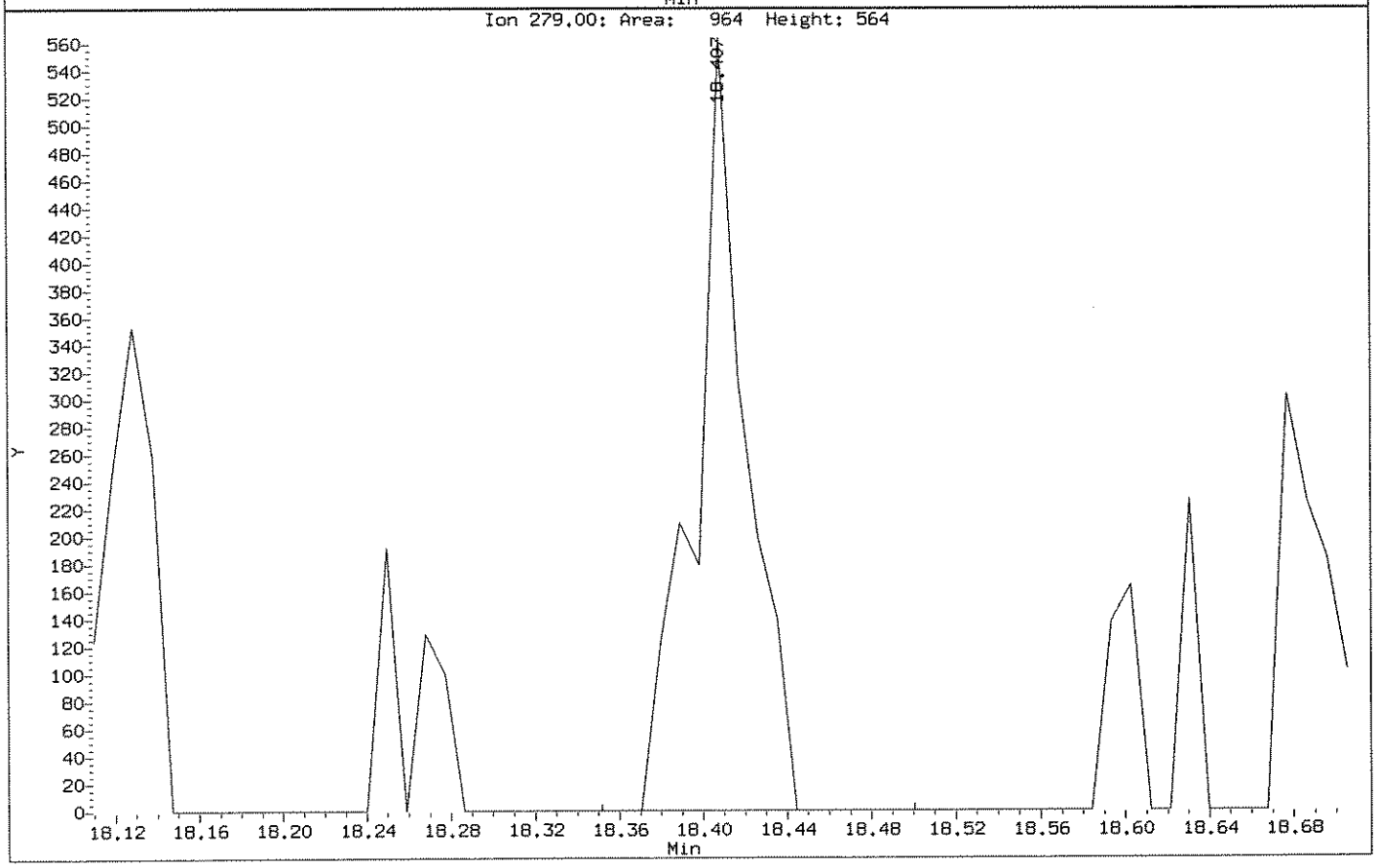




Data File: \\ELABNSHO5\TARGET\chem\bna4.i\082411B4.b\SEQ-CAL1.D
Injection Date: 24-AUG-2011 14:35
Instrument: bna4.i
Client Sample ID: SEQ-CAL1

Compound: Dibenz(a,h)anthracene
CAS Number: 53-70-3





Data File: \\ELABNSH05\TARGET\chem\bna4.i\082411B4.b\SEQ-CAL2.D
Report Date: 25-Aug-2011 13:28

Laboratory Name

Data file : \\ELABNSH05\TARGET\chem\bna4.i\082411B4.b\SEQ-CAL2.D
Lab Smp Id: SEQ-CAL2 Client Smp ID: SEQ-CAL2
Inj Date : 24-AUG-2011 15:05 MS Autotune Date: 16-JUN-2011 16:30
Operator : MEC Inst ID: bna4.i
Smp Info : CAL-0.20PPM;;;;;11C0008
Misc Info : ;1;;;2;;pahmisc.sub;
Comment :
Method : \\ELABNSH05\TARGET\chem\bna4.i\082411B4.b\IXBN4LOW.m
Meth Date : 25-Aug-2011 13:28 mcobb Quant Type: ISTD
Cal Date : 24-AUG-2011 14:35 Cal File: SEQ-CAL1.D
Als bottle: 3 Calibration Sample, Level: 2
Dil Factor: 1.00000
Integrator: HP RTE Compound Sublist: pahmisc.sub
Target Version: 4.04
Processing Host: TARGET09_VM

m 8/25/11

Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	AMOUNTS CAL-AMT (ng/ul)	AMOUNTS ON-COL (ng/ul)
* 102 Phenanthrene-d10	188	10.012	10.012	(1.000)	97574	1.00000	
4 1,4-Dioxane	88	1.906	1.906	(0.190)	6213	0.20000	0.2964
21 N-Nitroso-di-n-propylamine	70	5.095	5.095	(0.509)	6906	0.20000	0.1957
39 Isophorone	82	5.560	5.560	(0.555)	19820	0.20000	0.2074
51 Naphthalene	128	6.108	6.108	(0.610)	31278	0.20000	0.2154
53 Hexachlorobutadiene	225	6.257	6.257	(0.625)	5800	0.20000	0.2142
55 2-Methylnaphthalene	142	6.945	6.945	(0.694)	17395	0.20000	0.1999
56 1-Methylnaphthalene	142	7.056	7.056	(0.705)	17225	0.20000	0.2042
70 Hexachlorocyclopentadiene	237	7.121	7.121	(0.711)	2767	0.20000	0.4500
$ 74 2-Fluorobiphenyl	172	7.391	7.391	(0.738)	19679	0.20000	0.2134
77 Acenaphthylene	152	8.023	8.023	(0.801)	26393	0.20000	0.2088
80 Acenaphthene	153	8.237	8.237	(0.823)	17831	0.20000	0.2058
84 Dibenzofuran	168	8.451	8.451	(0.844)	19709	0.20000	0.1885
88 Fluorene	166	8.869	8.869	(0.886)	15486	0.20000	0.1874
104 Carbazole	167	10.319	10.319	(1.031)	14612	0.20000	0.1882
$ 107 2,4,6-Tribromophenol	330	9.166	9.166	(0.916)	4046	0.40000	0.2395
111 Phenanthrene	178	10.040	10.040	(1.003)	23949	0.20000	0.2109
109 Hexachlorobenzene	284	9.538	9.538	(0.953)	7851	0.20000	0.2247
112 Anthracene	178	10.105	10.105	(1.009)	22146	0.20000	0.1990
116 Fluoranthene	202	11.528	11.528	(1.151)	22331	0.20000	0.2088
134 Pyrene	202	11.835	11.835	(1.182)	19806	0.20000	0.1825
* 154 Perylene-d12	264	16.483	16.483	(1.000)	49638	1.00000	
$ 135 Terphenyl-d14	244	12.104	12.104	(1.209)	13187	0.20000	0.2131
138 Benzo(a)anthracene	228	13.805	13.805	(1.379)	13157	0.20000	0.1934
139 Chrysene	228	13.870	13.870	(1.385)	13143	0.20000	0.1919
140 Bis(2-ethylhexyl)phthalate	149	14.010	14.010	(0.850)	13925	0.20000	0.1699

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Data File: \\ELABNSH05\TARGET\chem\bna4.i\082411B4.b\SEQ-CAL2.D
Report Date: 25-Aug-2011 13:28

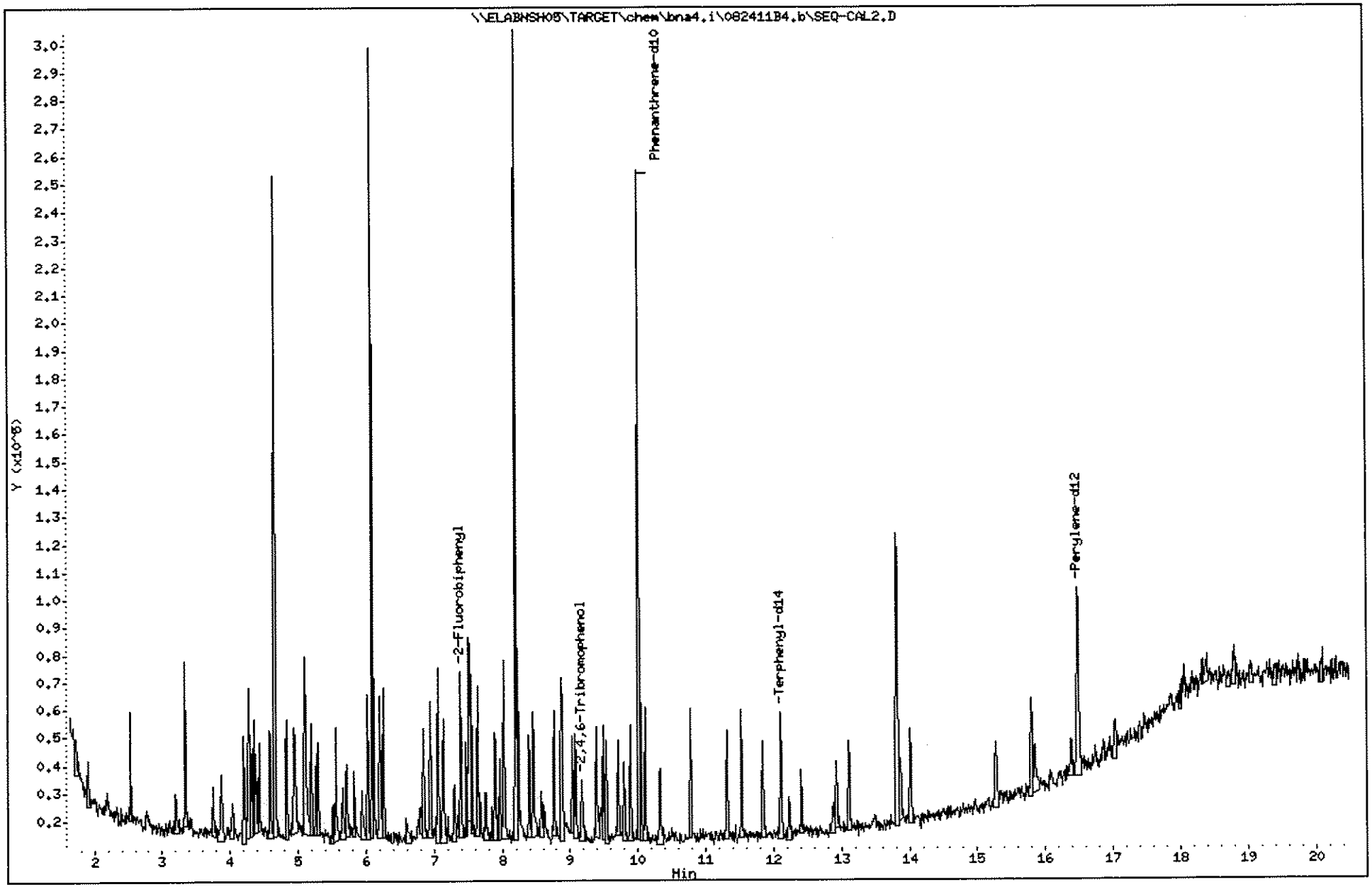
Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	AMOUNTS CAL-AMT (ng/ul)	AMOUNTS ON-COL (ng/ul)
155 Di-n-octylphthalate	149	15.274	15.274	(0.927)	18243	0.20000	0.1610
156 Benzo(b)fluoranthene	252	15.795	15.795	(0.958)	10733	0.20000	0.1620
157 Benzo(k)fluoranthene	252	15.851	15.851	(0.962)	12181	0.20000	0.1816
158 Benzo(a)pyrene	252	16.380	16.380	(0.994)	9950	0.20000	0.1781
159 Indeno(1,2,3-cd)pyrene	276	18.333	18.333	(1.112)	7463	0.20000	0.1862
160 Dibenz(a,h)anthracene	278	18.388	18.388	(1.116)	7249	0.20000	0.1844
161 Benzo(g,h,i)perylene	276	18.807	18.807	(1.141)	7577	0.20000	0.1870

Data File: \\ELABNSH05\TARGET\chem\bna4.i\082411B4.b\SEQ-CAL2.D
Date : 24-AUG-2011 15:05
Client ID: SEQ-CAL2
Sample Info: CAL-0.20PPM;;;;;11C0008

Column phase: fused silica

Instrument: bna4.i

Operator: MEC
Column diameter: 0.25



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1110003

Data File: \\ELABNSH05\TARGET\chem\bna4.i\082411B4.b\SEQ-CAL3.D
Report Date: 25-Aug-2011 13:28

Laboratory Name

Data file : \\ELABNSH05\TARGET\chem\bna4.i\082411B4.b\SEQ-CAL3.D
Lab Smp Id: SEQ-CAL3 Client Smp ID: SEQ-CAL3
Inj Date : 24-AUG-2011 15:35 MS Autotune Date: 16-JUN-2011 16:30
Operator : MEC Inst ID: bna4.i
Smp Info : CAL-0.50PPM;;;;;11C0009
Misc Info : ;1;;;3;;pahmisc.sub;
Comment :
Method : \\ELABNSH05\TARGET\chem\bna4.i\082411B4.b\IXBN4LOW.m
Meth Date : 25-Aug-2011 13:28 mcobb Quant Type: ISTD
Cal Date : 24-AUG-2011 14:35 Cal File: SEQ-CAL1.D
Als bottle: 4 Calibration Sample, Level: 3
Dil Factor: 1.00000
Integrator: HP RTE Compound Sublist: pahmisc.sub
Target Version: 4.04
Processing Host: TARGET09_VM

m 8/29/11

Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	AMOUNTS CAL-AMT (ng/ul)	AMOUNTS ON-COL (ng/ul)
* 102 Phenanthrene-d10	188	10.012	10.012	(1.000)	98140	1.00000	
4 1,4-Dioxane	88	1.906	1.906	(0.190)	13293	0.50000	0.6305
21 N-Nitroso-di-n-propylamine	70	5.095	5.095	(0.509)	19019	0.50000	0.5358
39 Isophorone	82	5.559	5.559	(0.555)	51739	0.50000	0.5384
51 Naphthalene	128	6.108	6.108	(0.610)	75139	0.50000	0.5144
53 Hexachlorobutadiene	225	6.257	6.257	(0.625)	14157	0.50000	0.5199
55 2-Methylnaphthalene	142	6.935	6.935	(0.693)	47478	0.50000	0.5425
56 1-Methylnaphthalene	142	7.056	7.056	(0.705)	46124	0.50000	0.5436
70 Hexachlorocyclopentadiene	237	7.121	7.121	(0.711)	6515	0.50000	0.5847
$ 74 2-Fluorobiphenyl	172	7.391	7.391	(0.738)	48322	0.50000	0.5211
77 Acenaphthylene	152	8.023	8.023	(0.801)	62379	0.50000	0.4907
80 Acenaphthene	153	8.237	8.237	(0.823)	45954	0.50000	0.5272
84 Dibenzofuran	168	8.451	8.451	(0.844)	52994	0.50000	0.5040
88 Fluorene	166	8.869	8.869	(0.886)	43716	0.50000	0.5259
104 Carbazole	167	10.319	10.319	(1.031)	35626	0.50000	0.4563
110 Pentachlorophenol	266	9.817	9.817	(0.981)	2160	0.50000	1.251
$ 107 2,4,6-Tribromophenol	330	9.166	9.166	(0.916)	14712	1.00000	0.8659
111 Phenanthrene	178	10.040	10.040	(1.003)	54632	0.50000	0.4784
109 Hexachlorobenzene	284	9.538	9.538	(0.953)	17278	0.50000	0.4916
112 Anthracene	178	10.105	10.105	(1.009)	54043	0.50000	0.4828
116 Fluoranthene	202	11.528	11.528	(1.151)	47143	0.50000	0.4384
134 Pyrene	202	11.834	11.834	(1.182)	47510	0.50000	0.4352
* 154 Perylene-d12	264	16.483	16.483	(1.000)	35794	1.00000	
$ 135 Terphenyl-d14	244	12.104	12.104	(1.209)	26690	0.50000	0.4288
138 Benzo(a)anthracene	228	13.805	13.805	(1.379)	28406	0.50000	0.4152
139 Chrysene	228	13.870	13.870	(1.385)	29160	0.50000	0.4233

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Data File: \\ELABNSH05\TARGET\chem\bna4.i\082411B4.b\SEQ-CAL3.D
Report Date: 25-Aug-2011 13:28

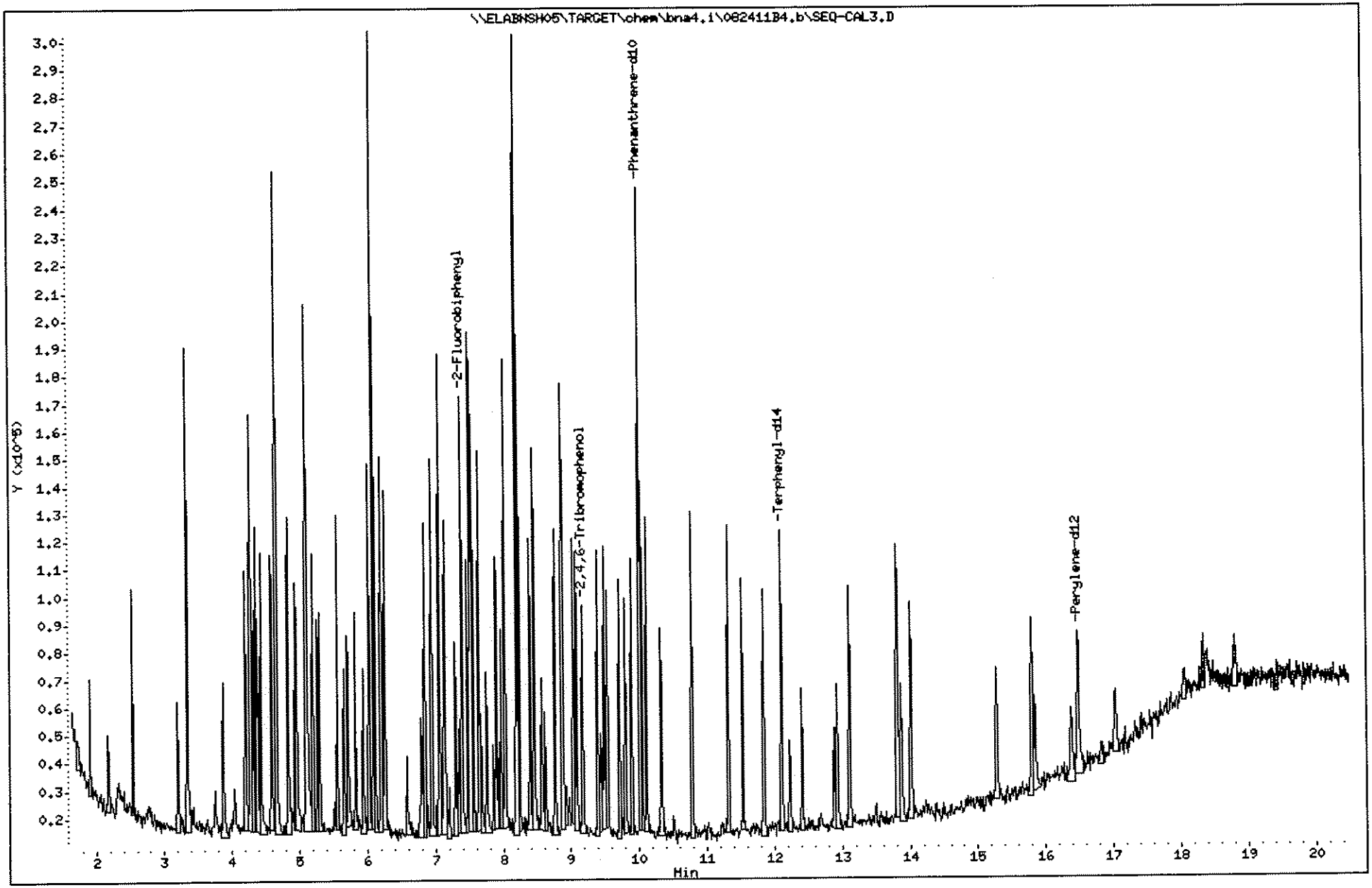
Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	AMOUNTS CAL-AMT (ng/ul)	AMOUNTS ON-COL (ng/ul)
140 Bis(2-ethylhexyl)phthalate	149	14.010	14.010	(0.850)	31255	0.50000	0.5288
155 Di-n-octylphthalate	149	15.274	15.274	(0.927)	42646	0.50000	0.5219
156 Benzo(b)fluoranthene	252	15.795	15.795	(0.958)	22163	0.50000	0.4638
157 Benzo(k)fluoranthene	252	15.841	15.841	(0.961)	23715	0.50000	0.4904
158 Benzo(a)pyrene	252	16.380	16.380	(0.994)	18192	0.50000	0.4516
159 Indeno(1,2,3-cd)pyrene	276	18.342	18.342	(1.113)	13574	0.50000	0.4697
160 Dibenz(a,h)anthracene	278	18.398	18.398	(1.116)	11119	0.50000	0.3921
161 Benzo(g,h,i)perylene	276	18.807	18.807	(1.141)	15475	0.50000	0.5296

Data File: \\ELABNSH05\TARGET\chem\bna4.i\082411B4.b\SEQ-CAL3.D
Date : 24-AUG-2011 15:35
Client ID: SEQ-CAL3
Sample Info: CAL-0.50PPM;;;;;11C0009

Column phase: fused silica

Instrument: bna4.i

Operator: HEC
Column diameter: 0.25



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Data File: \\ELABNSH05\TARGET\chem\bna4.i\082411B4.b\SEQ-CAL4.D
Report Date: 25-Aug-2011 13:28

Laboratory Name

Data file : \\ELABNSH05\TARGET\chem\bna4.i\082411B4.b\SEQ-CAL4.D
Lab Smp Id: SEQ-CAL4 Client Smp ID: SEQ-CAL4
Inj Date : 24-AUG-2011 16:05 MS Autotune Date: 16-JUN-2011 16:30
Operator : MEC Inst ID: bna4.i
Smp Info : CAL-1.00PPM;;;;;11C0010
Misc Info : ;1;;;4;;pahmisc.sub;
Comment :
Method : \\ELABNSH05\TARGET\chem\bna4.i\082411B4.b\IXBN4LOW.m
Meth Date : 25-Aug-2011 13:28 mcobb Quant Type: ISTD
Cal Date : 24-AUG-2011 14:35 Cal File: SEQ-CAL1.D
Als bottle: 5 Calibration Sample, Level: 4
Dil Factor: 1.00000
Integrator: HP RTE Compound Sublist: pahmisc.sub
Target Version: 4.04
Processing Host: TARGET09_VM

m 8/25/11

Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	AMOUNTS CAL-AMT (ng/ul)	AMOUNTS ON-COL (ng/ul)
* 102 Phenanthrene-d10	188	10.012	10.012	(1.000)	105583	1.00000	
4 1,4-Dioxane	88	1.897	1.897	(0.189)	22905	1.00000	1.010
21 N-Nitroso-di-n-propylamine	70	5.095	5.095	(0.509)	37491	1.00000	0.9817
39 Isophorone	82	5.559	5.559	(0.555)	104965	1.00000	1.015
51 Naphthalene	128	6.108	6.108	(0.610)	152293	1.00000	0.9690
53 Hexachlorobutadiene	225	6.257	6.257	(0.625)	31586	1.00000	1.078
55 2-Methylnaphthalene	142	6.935	6.935	(0.693)	91533	1.00000	0.9722
56 1-Methylnaphthalene	142	7.056	7.056	(0.705)	87296	1.00000	0.9564
70 Hexachlorocyclopentadiene	237	7.121	7.121	(0.711)	18969	1.00000	0.9862
$ 74 2-Fluorobiphenyl	172	7.391	7.391	(0.738)	98604	1.00000	0.9883
77 Acenaphthylene	152	8.023	8.023	(0.801)	136301	1.00000	0.9966
80 Acenaphthene	153	8.237	8.237	(0.823)	88585	1.00000	0.9447
84 Dibenzofuran	168	8.451	8.451	(0.844)	115672	1.00000	1.023
88 Fluorene	166	8.869	8.869	(0.886)	90423	1.00000	1.011
104 Carbazole	167	10.319	10.319	(1.031)	96074	1.00000	1.144
110 Pentachlorophenol	266	9.789	9.789	(0.978)	7807	1.00000	1.565
$ 107 2,4,6-Tribromophenol	330	9.166	9.166	(0.916)	33266	2.00000	1.820
111 Phenanthrene	178	10.040	10.040	(1.003)	124594	1.00000	1.014
109 Hexachlorobenzene	284	9.538	9.538	(0.953)	39380	1.00000	1.042
112 Anthracene	178	10.105	10.105	(1.009)	116384	1.00000	0.9665
116 Fluoranthene	202	11.528	11.528	(1.151)	121940	1.00000	1.054
134 Pyrene	202	11.834	11.834	(1.182)	120578	1.00000	1.027
* 154 Perylene-d12	264	16.483	16.483	(1.000)	58058	1.00000	
$ 135 Terphenyl-d14	244	12.104	12.104	(1.209)	64853	1.00000	0.9684
138 Benzo(a)anthracene	228	13.805	13.805	(1.379)	76875	1.00000	1.044
139 Chrysene	228	13.870	13.870	(1.385)	80132	1.00000	1.081

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Data File: \\ELABNSH05\TARGET\chem\bna4.i\082411B4.b\SEQ-CAL4.D
Report Date: 25-Aug-2011 13:28

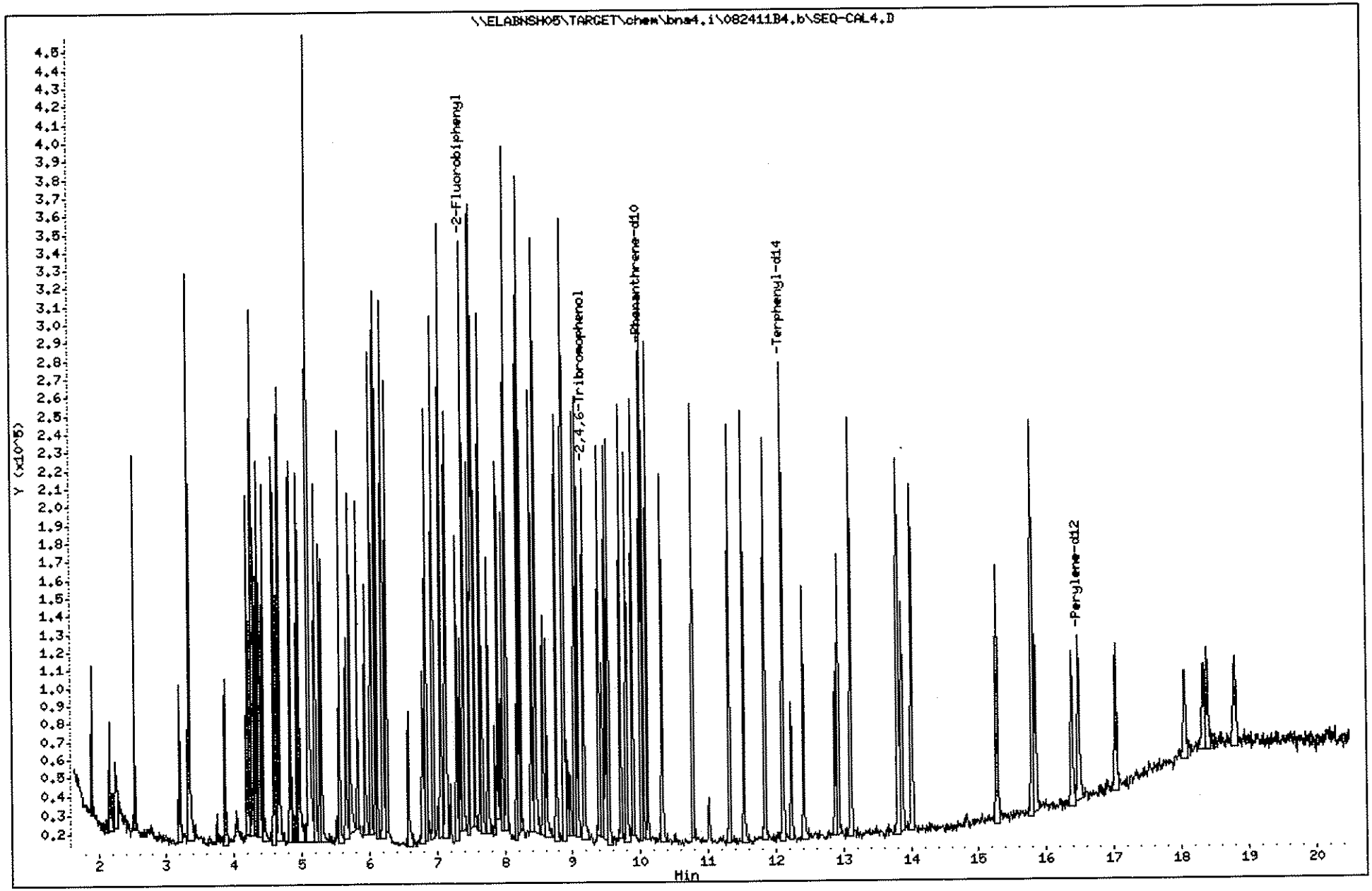
Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	AMOUNTS CAL-AMT (ng/ul)	AMOUNTS ON-COL (ng/ul)
140 Bis(2-ethylhexyl)phthalate	149	14.010	14.010	(0.850)	86632	1.00000	0.9037
155 Di-n-octylphthalate	149	15.274	15.274	(0.927)	117460	1.00000	0.8862
156 Benzo(b)fluoranthene	252	15.795	15.795	(0.958)	78235	1.00000	1.009
157 Benzo(k)fluoranthene	252	15.841	15.841	(0.961)	71789	1.00000	0.9152
158 Benzo(a)pyrene	252	16.380	16.380	(0.994)	59179	1.00000	0.9057
159 Indeno(1,2,3-cd)pyrene	276	18.323	18.323	(1.112)	42953	1.00000	0.9164
160 Dibenz(a,h)anthracene	278	18.379	18.379	(1.115)	44151	1.00000	0.9600
161 Benzo(g,h,i)perylene	276	18.797	18.797	(1.140)	46224	1.00000	0.9753

Data File: \\ELABNSH05\TARGET\chem\bna4.i\082411B4.b\SEQ-CAL4.D
Date : 24-AUG-2011 16:05
Client ID: SEQ-CAL4
Sample Info: CAL-1.00PPM;;;;;11C0010

Column phase: fused silica

Instrument: bna4.i

Operator: HEC
Column diameter: 0.25



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1110003

Data File: \\ELABNSH05\TARGET\chem\bna4.i\082411B4.b\SEQ-CAL5.D
Report Date: 25-Aug-2011 13:28

Laboratory Name

Data file : \\ELABNSH05\TARGET\chem\bna4.i\082411B4.b\SEQ-CAL5.D
Lab Smp Id: SEQ-CAL5 Client Smp ID: SEQ-CAL5
Inj Date : 24-AUG-2011 16:35 MS Autotune Date: 16-JUN-2011 16:30
Operator : MEC Inst ID: bna4.i
Smp Info : CAL-5.00PPM;;;;;11C0011
Misc Info : ;1;;;5;;pahmisc.sub;
Comment :
Method : \\ELABNSH05\TARGET\chem\bna4.i\082411B4.b\IXBN4LOW.m
Meth Date : 25-Aug-2011 13:28 mcobb Quant Type: ISTD
Cal Date : 24-AUG-2011 14:35 Cal File: SEQ-CAL1.D
Als bottle: 6 Calibration Sample, Level: 5
Dil Factor: 1.00000
Integrator: HP RTE Compound Sublist: pahmisc.sub
Target Version: 4.04
Processing Host: TARGET09_VM

m 8/29/11

Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	AMOUNTS CAL-AMT (ng/ul)	AMOUNTS ON-COL (ng/ul)
* 102 Phenanthrene-d10	188	10.012	10.012	(1.000)	99917	1.00000	
4 1,4-Dioxane	88	1.897	1.897	(0.189)	113082	5.00000	5.268
21 N-Nitroso-di-n-propylamine	70	5.095	5.095	(0.509)	193636	5.00000	5.358
39 Isophorone	82	5.559	5.559	(0.555)	529010	5.00000	5.407
51 Naphthalene	128	6.108	6.108	(0.610)	765613	5.00000	5.148
53 Hexachlorobutadiene	225	6.257	6.257	(0.625)	143563	5.00000	5.178
55 2-Methylnaphthalene	142	6.935	6.935	(0.693)	454657	5.00000	5.103
56 1-Methylnaphthalene	142	7.056	7.056	(0.705)	446269	5.00000	5.166
70 Hexachlorocyclopentadiene	237	7.121	7.121	(0.711)	120951	5.00000	4.640
$ 74 2-Fluorobiphenyl	172	7.391	7.391	(0.738)	495593	5.00000	5.249
77 Acenaphthylene	152	8.023	8.023	(0.801)	692559	5.00000	5.351
80 Acenaphthene	153	8.237	8.237	(0.823)	463081	5.00000	5.218
84 Dibenzofuran	168	8.451	8.451	(0.844)	559239	5.00000	5.224
88 Fluorene	166	8.869	8.869	(0.886)	464818	5.00000	5.492
104 Carbazole	167	10.319	10.319	(1.031)	417489	5.00000	5.252
110 Pentachlorophenol	266	9.789	9.789	(0.978)	56998	5.00000	4.560
$ 107 2,4,6-Tribromophenol	330	9.166	9.166	(0.916)	181934	10.0000	10.52
111 Phenanthrene	178	10.040	10.040	(1.003)	593919	5.00000	5.108
109 Hexachlorobenzene	284	9.538	9.538	(0.953)	178190	5.00000	4.980
112 Anthracene	178	10.105	10.105	(1.009)	593685	5.00000	5.210
116 Fluoranthene	202	11.528	11.528	(1.151)	560570	5.00000	5.120
134 Pyrene	202	11.834	11.834	(1.182)	566729	5.00000	5.099
* 154 Perylene-d12	264	16.483	16.483	(1.000)	43447	1.00000	
$ 135 Terphenyl-d14	244	12.104	12.104	(1.209)	306379	5.00000	4.835
138 Benzo(a)anthracene	228	13.805	13.805	(1.379)	329417	5.00000	4.730
139 Chrysene	228	13.870	13.870	(1.385)	329867	5.00000	4.704

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Data File: \\ELABNSH05\TARGET\chem\bna4.i\082411B4.b\SEQ-CAL5.D
Report Date: 25-Aug-2011 13:28

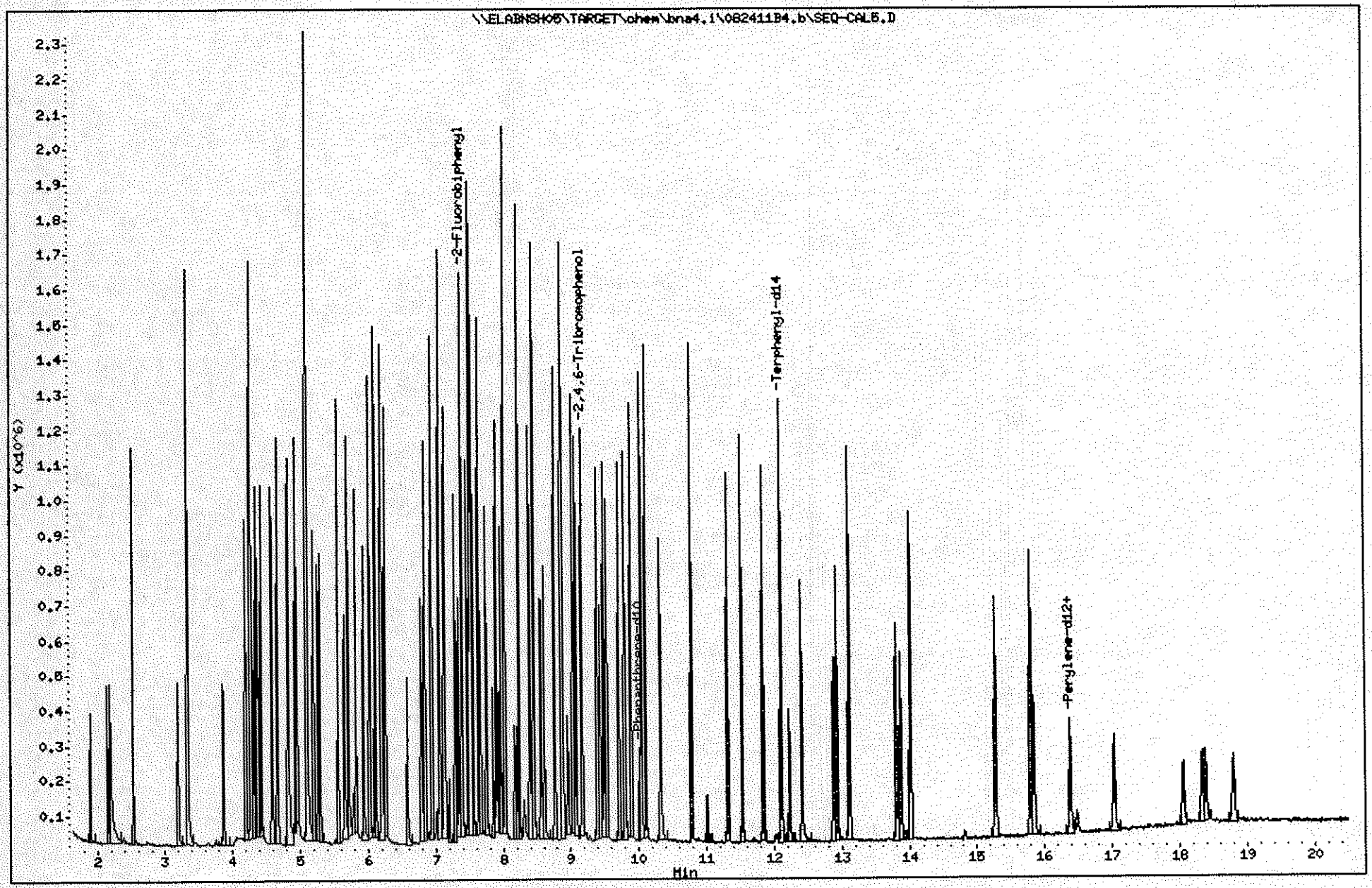
Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	AMOUNTS CAL-AMT (ng/ul)	AMOUNTS ON-COL (ng/ul)
140 Bis(2-ethylhexyl)phthalate	149	14.010	14.010	(0.850)	398523	5.00000	5.555
155 Di-n-octylphthalate	149	15.274	15.274	(0.927)	539706	5.00000	5.441
156 Benzo(b)fluoranthene	252	15.795	15.795	(0.958)	304297	5.00000	5.246
157 Benzo(k)fluoranthene	252	15.850	15.850	(0.962)	292764	5.00000	4.987
158 Benzo(a)pyrene	252	16.380	16.380	(0.994)	233649	5.00000	4.779
159 Indeno(1,2,3-cd)pyrene	276	18.333	18.333	(1.112)	168577	5.00000	4.806
160 Dibenz(a,h)anthracene	278	18.388	18.388	(1.116)	184892	5.00000	5.372
161 Benzo(g,h,i)perylene	276	18.797	18.797	(1.140)	177755	5.00000	5.012

Data File: \\ELABNSHO5\TARGET\chem\bna4.i\082411B4.b\SEQ-CAL5.D
Date : 24-AUG-2011 16:35
Client ID: SEQ-CAL5
Sample Info: CAL-5.00PPM;;;;;11C0011

Column phase: fused silica

Instrument: bna4.i

Operator: HEC
Column diameter: 0.25



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1110003

Data File: \\ELABNSH05\TARGET\chem\bna4.i\082411B4.b\SEQ-CAL6.D
Report Date: 25-Aug-2011 13:28

Laboratory Name

Data file : \\ELABNSH05\TARGET\chem\bna4.i\082411B4.b\SEQ-CAL6.D
Lab Smp Id: SEQ-CAL6 Client Smp ID: SEQ-CAL6
Inj Date : 24-AUG-2011 17:05 MS Autotune Date: 16-JUN-2011 16:30
Operator : MEC Inst ID: bna4.i
Smp Info : CAL-10.0PPM;;;;;11C0012
Misc Info : ;1;;;6;;pahmisc.sub;
Comment :
Method : \\ELABNSH05\TARGET\chem\bna4.i\082411B4.b\IXBN4LOW.m
Meth Date : 25-Aug-2011 13:28 mcobb Quant Type: ISTD
Cal Date : 24-AUG-2011 14:35 Cal File: SEQ-CAL1.D
Als bottle: 7 Calibration Sample, Level: 6
Dil Factor: 1.00000
Integrator: HP RTE Compound Sublist: pahmisc.sub
Target Version: 4.04
Processing Host: TARGET09_VM

m 8/29/11

Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	AMOUNTS CAL-AMT (ng/ul)	AMOUNTS ON-COL (ng/ul)
* 102 Phenanthrene-d10	188	10.012	10.012	(1.000)	125561	1.00000	
4 1,4-Dioxane	88	1.897	1.897	(0.189)	239957	10.0000	8.896
21 N-Nitroso-di-n-propylamine	70	5.104	5.104	(0.510)	424408	10.0000	9.345
39 Isophorone	82	5.559	5.559	(0.555)	1153122	10.0000	9.378
51 Naphthalene	128	6.117	6.117	(0.611)	1667576	10.0000	8.922
53 Hexachlorobutadiene	225	6.257	6.257	(0.625)	325030	10.0000	9.329
55 2-Methylnaphthalene	142	6.944	6.944	(0.694)	994081	10.0000	8.878
56 1-Methylnaphthalene	142	7.056	7.056	(0.705)	998049	10.0000	9.194
70 Hexachlorocyclopentadiene	237	7.121	7.121	(0.711)	311958	10.0000	9.154
$ 74 2-Fluorobiphenyl	172	7.391	7.391	(0.738)	1109816	10.0000	9.354
77 Acenaphthylene	152	8.032	8.032	(0.802)	1563141	10.0000	9.611
80 Acenaphthene	153	8.237	8.237	(0.823)	1053907	10.0000	9.451
84 Dibenzofuran	168	8.450	8.450	(0.844)	1304302	10.0000	9.696
88 Fluorene	166	8.869	8.869	(0.886)	1055803	10.0000	9.928
104 Carbazole	167	10.319	10.319	(1.031)	939209	10.0000	9.402
110 Pentachlorophenol	266	9.789	9.789	(0.978)	176553	10.0000	9.558
$ 107 2,4,6-Tribromophenol	330	9.166	9.166	(0.916)	441040	20.0000	20.29
111 Phenanthrene	178	10.049	10.049	(1.004)	1442441	10.0000	9.872
109 Hexachlorobenzene	284	9.538	9.538	(0.953)	409846	10.0000	9.115
112 Anthracene	178	10.105	10.105	(1.009)	1442092	10.0000	10.07
116 Fluoranthene	202	11.528	11.528	(1.151)	1461759	10.0000	10.62
134 Pyrene	202	11.834	11.834	(1.182)	1453421	10.0000	10.40
* 154 Perylene-d12	264	16.483	16.483	(1.000)	67079	1.00000	
$ 135 Terphenyl-d14	244	12.104	12.104	(1.209)	859371	10.0000	10.79
138 Benzo(a)anthracene	228	13.805	13.805	(1.379)	1002973	10.0000	11.46
139 Chrysene	228	13.870	13.870	(1.385)	1014775	10.0000	11.51

8/25/11

Data File: \\ELABNSH05\TARGET\chem\bna4.i\082411B4.b\SEQ-CAL6.D
Report Date: 25-Aug-2011 13:28

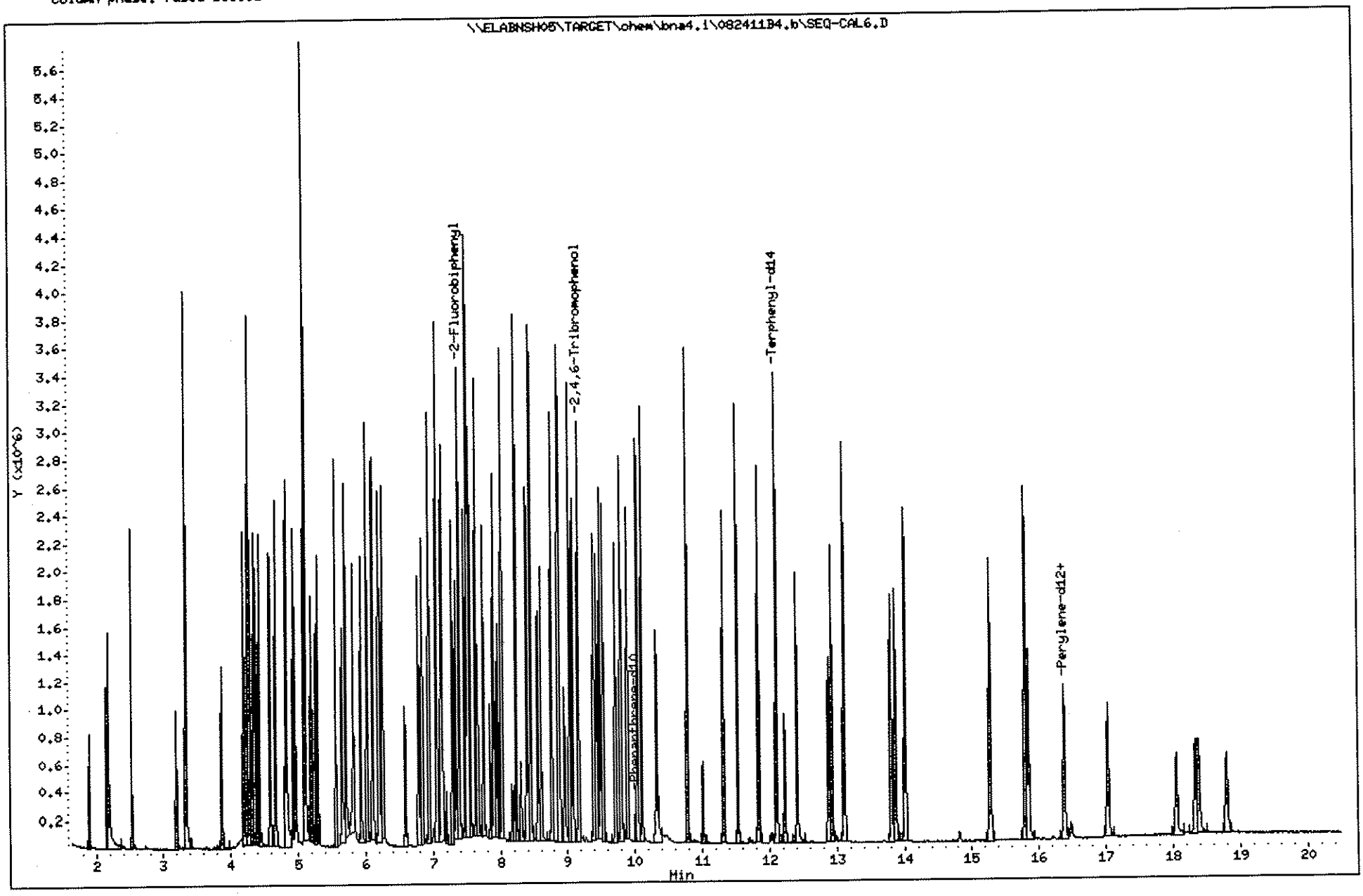
Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	AMOUNTS CAL-AMT (ng/ul)	AMOUNTS ON-COL (ng/ul)
140 Bis(2-ethylhexyl)phthalate	149	14.010	14.010	(0.850)	1058807	10.0000	9.560
155 Di-n-octylphthalate	149	15.274	15.274	(0.927)	1599823	10.0000	10.45
156 Benzo(b)fluoranthene	252	15.795	15.795	(0.958)	964307	10.0000	10.77
157 Benzo(k)fluoranthene	252	15.850	15.850	(0.962)	970208	10.0000	10.70
158 Benzo(a)pyrene	252	16.380	16.380	(0.994)	756523	10.0000	10.02
159 Indeno(1,2,3-cd)pyrene	276	18.333	18.333	(1.112)	551031	10.0000	10.18
160 Dibenz(a,h)anthracene	278	18.388	18.388	(1.116)	548947	10.0000	10.33
161 Benzo(g,h,i)perylene	276	18.797	18.797	(1.140)	533592	10.0000	9.744

Data File: \\ELABNSH05\TARGET\chem\bna4.i\082411B4.b\SEQ-CAL6.D
Date : 24-AUG-2011 17:05
Client ID: SEQ-CAL6
Sample Info: CAL-10.0PPM;;;;;11C0012

Instrument: bna4.i

Operator: HEC
Column diameter: 0.25

Column phase: fused silica



Data File: \\ELABNSH05\TARGET\chem\bna4.i\082411B4.b\SEQ-CAL7.D
Report Date: 25-Aug-2011 13:29

Laboratory Name

Data file : \\ELABNSH05\TARGET\chem\bna4.i\082411B4.b\SEQ-CAL7.D
Lab Smp Id: SEQ-CAL7 Client Smp ID: SEQ-CAL7
Inj Date : 24-AUG-2011 17:34 MS Autotune Date: 16-JUN-2011 16:30
Operator : MEC Inst ID: bna4.i
Smp Info : CAL-20.0PPM;;;;;11C0013
Misc Info : ;1;;;7;;pahmisc.sub;
Comment :
Method : \\ELABNSH05\TARGET\chem\bna4.i\082411B4.b\IXBN4LOW.m
Meth Date : 25-Aug-2011 13:28 mcobb Quant Type: ISTD
Cal Date : 24-AUG-2011 14:35 Cal File: SEQ-CAL1.D
Als bottle: 8 Calibration Sample, Level: 7
Dil Factor: 1.00000
Integrator: HP RTE Compound Sublist: pahmisc.sub
Target Version: 4.04
Processing Host: TARGET09_VM

MB 8/29/11

Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	AMOUNTS CAL-AMT (ng/ul)	AMOUNTS ON-COL (ng/ul)
* 102 Phenanthrene-d10	188	10.022	10.022	(1.000)	118485	1.00000	
4 1,4-Dioxane	88	1.897	1.897	(0.189)	468770	20.0000	18.42
21 N-Nitroso-di-n-propylamine	70	5.104	5.104	(0.509)	850593	20.0000	19.85
39 Isophorone	82	5.569	5.569	(0.556)	2316990	20.0000	19.97
51 Naphthalene	128	6.117	6.117	(0.610)	3328671	20.0000	18.87
53 Hexachlorobutadiene	225	6.257	6.257	(0.624)	653525	20.0000	19.88
55 2-Methylnaphthalene	142	6.945	6.945	(0.693)	2084287	20.0000	19.73
56 1-Methylnaphthalene	142	7.056	7.056	(0.704)	1988442	20.0000	19.41
70 Hexachlorocyclopentadiene	237	7.130	7.130	(0.712)	680583	20.0000	20.71
$ 74 2-Fluorobiphenyl	172	7.400	7.400	(0.738)	2210113	20.0000	19.74
77 Acenaphthylene	152	8.032	8.032	(0.801)	3074763	20.0000	20.03
80 Acenaphthene	153	8.246	8.246	(0.823)	2081751	20.0000	19.78
84 Dibenzofuran	168	8.460	8.460	(0.844)	2559577	20.0000	20.16
88 Fluorene	166	8.878	8.878	(0.886)	2098021	20.0000	20.91
104 Carbazole	167	10.319	10.319	(1.030)	1263107	20.0000	13.40
110 Pentachlorophenol	266	9.799	9.799	(0.978)	384306	20.0000	20.35
$ 107 2,4,6-Tribromophenol	330	9.176	9.176	(0.916)	902297	40.0000	43.99
111 Phenanthrene	178	10.050	10.050	(1.003)	2825791	20.0000	20.50
109 Hexachlorobenzene	284	9.538	9.538	(0.952)	798879	20.0000	18.83
112 Anthracene	178	10.115	10.115	(1.009)	2856371	20.0000	21.14
116 Fluoranthene	202	11.528	11.528	(1.150)	2682012	20.0000	20.66
134 Pyrene	202	11.844	11.844	(1.182)	2735218	20.0000	20.75
* 154 Perylene-d12	264	16.483	16.483	(1.000)	53744	1.00000	
$ 135 Terphenyl-d14	244	12.104	12.104	(1.208)	1633762	20.0000	21.74
138 Benzo(a)anthracene	228	13.815	13.815	(1.378)	1857787	20.0000	22.49
139 Chrysene	228	13.870	13.870	(1.384)	1773803	20.0000	21.33

8/25/11

Data File: \\ELABNSH05\TARGET\chem\bna4.i\082411B4.b\SEQ-CAL7.D
Report Date: 25-Aug-2011 13:29

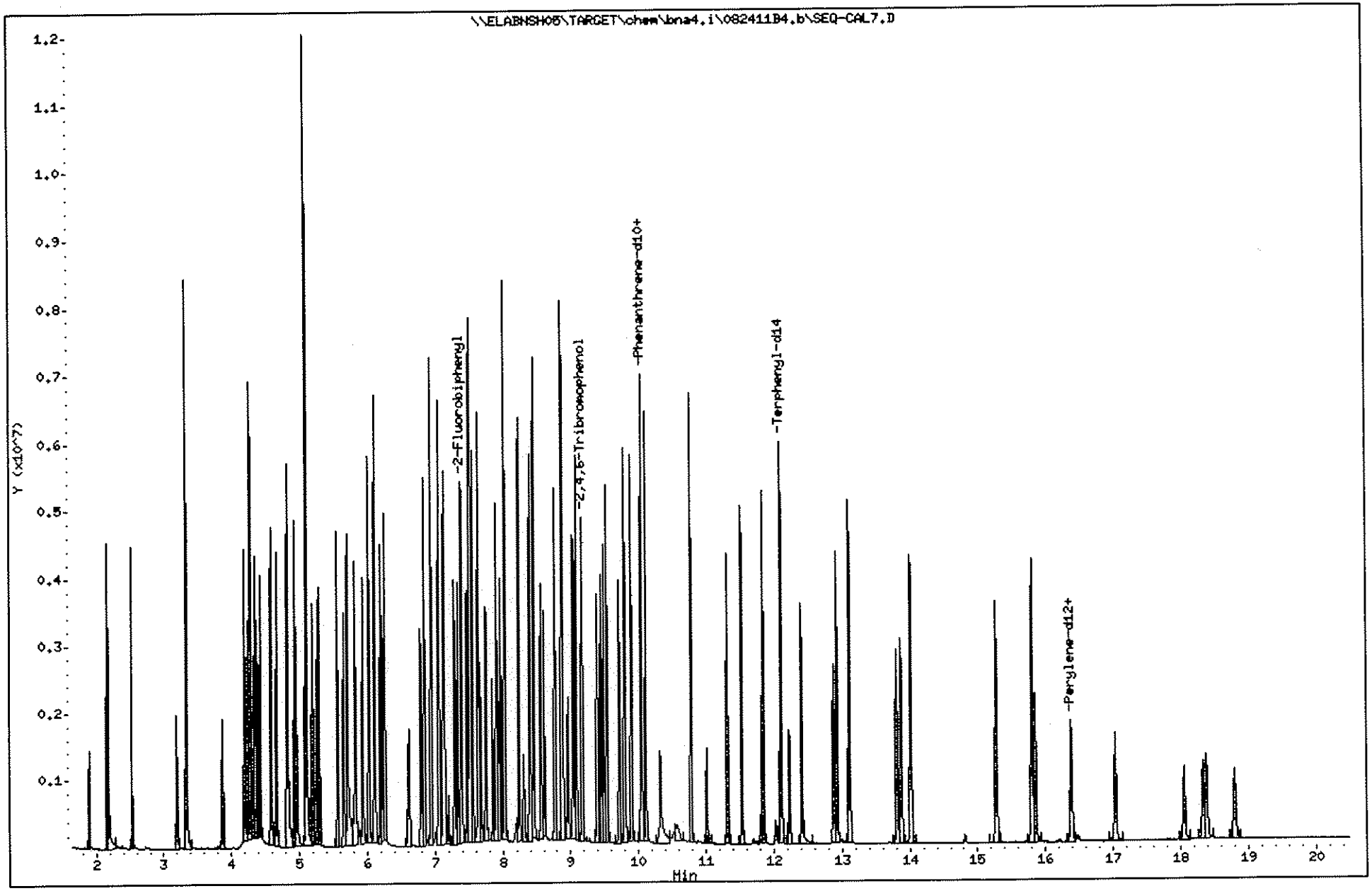
Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	AMOUNTS CAL-AMT (ng/ul)	AMOUNTS ON-COL (ng/ul)
140 Bis(2-ethylhexyl)phthalate	149	14.019	14.019	(0.851)	2014804	20.0000	22.70
155 Di-n-octylphthalate	149	15.274	15.274	(0.927)	2914264	20.0000	23.75
156 Benzo(b)fluoranthene	252	15.804	15.804	(0.959)	1693779	20.0000	23.60
157 Benzo(k)fluoranthene	252	15.860	15.860	(0.962)	1575742	20.0000	21.70
158 Benzo(a)pyrene	252	16.380	16.380	(0.994)	1295544	20.0000	21.42
159 Indeno(1,2,3-cd)pyrene	276	18.333	18.333	(1.112)	978299	20.0000	22.55
160 Dibenz(a,h)anthracene	278	18.388	18.388	(1.116)	996820	20.0000	23.41
161 Benzo(g,h,i)perylene	276	18.807	18.807	(1.141)	978024	20.0000	22.29

Data File: \\ELABNSH05\TARGET\chem\bna4.i\082411B4.b\SEQ-CAL7.D
Date : 24-AUG-2011 17:34
Client ID: SEQ-CAL7
Sample Info: CAL-20.0PPM;;;;;11C0013

Column phase: fused silica

Instrument: bna4.i

Operator: MEC
Column diameter: 0.25



675

1110003

Data File: \\ELABNSH05\TARGET\chem\bna4.i\082411B4.b\SEQ-CAL9.D
Report Date: 25-Aug-2011 13:29

Laboratory Name

Data file : \\ELABNSH05\TARGET\chem\bna4.i\082411B4.b\SEQ-CAL9.D
Lab Smp Id: SEQ-CAL9 Client Smp ID: SEQ-CAL9
Inj Date : 24-AUG-2011 18:33 MS Autotune Date: 16-JUN-2011 16:30
Operator : MEC Inst ID: bna4.i
Smp Info : CAL-50.0PPM;;;;;11C0015
Misc Info : ;1;;;9;;pahmisc.sub;
Comment :
Method : \\ELABNSH05\TARGET\chem\bna4.i\082411B4.b\IXBN4LOW.m
Meth Date : 25-Aug-2011 13:29 mcobb Quant Type: ISTD
Cal Date : 24-AUG-2011 18:33 Cal File: SEQ-CAL9.D
Als bottle: 10 Calibration Sample, Level: 9
Dil Factor: 1.00000
Integrator: HP RTE Compound Sublist: pahmisc.sub
Target Version: 4.04
Processing Host: TARGET09_VM

m 8/29/11

Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	AMOUNTS CAL-AMT (ng/ul)	AMOUNTS ON-COL (ng/ul)
* 102 Phenanthrene-d10	188	10.022	10.022	(1.000)	128361	1.00000	
4 1,4-Dioxane	88	1.897	1.897	(0.189)	1192607	50.0000	43.25
21 N-Nitroso-di-n-propylamine	70	5.123	5.123	(0.511)	2145950	50.0000	46.22
39 Isophorone	82	5.578	5.578	(0.557)	5767211	50.0000	45.88
51 Naphthalene	128	6.117	6.117	(0.610)	8461512	50.0000	44.28
53 Hexachlorobutadiene	225	6.266	6.266	(0.625)	1633030	50.0000	45.85
55 2-Methylnaphthalene	142	6.954	6.954	(0.694)	5319159	50.0000	46.47
56 1-Methylnaphthalene	142	7.065	7.065	(0.705)	4984741	50.0000	44.92
70 Hexachlorocyclopentadiene	237	7.131	7.131	(0.712)	1794338	50.0000	49.89
$ 74 2-Fluorobiphenyl	172	7.400	7.400	(0.738)	5550453	50.0000	45.76
77 Acenaphthylene	152	8.042	8.042	(0.802)	7757947	50.0000	46.66
80 Acenaphthene	153	8.255	8.255	(0.824)	5428533	50.0000	47.62
84 Dibenzofuran	168	8.469	8.469	(0.845)	6653451	50.0000	48.38
88 Fluorene	166	8.878	8.878	(0.886)	5503204	50.0000	50.62(A)
104 Carbazole	167	10.328	10.328	(1.031)	1074348	50.0000	10.52
110 Pentachlorophenol	266	9.808	9.808	(0.979)	1095286	50.0000	49.96
$ 107 2,4,6-Tribromophenol	330	9.185	9.185	(0.917)	2351727	100.000	105.8(A)
111 Phenanthrene	178	10.059	10.059	(1.004)	7432064	50.0000	49.76
109 Hexachlorobenzene	284	9.548	9.548	(0.953)	2058662	50.0000	44.78
112 Anthracene	178	10.124	10.124	(1.010)	7557141	50.0000	51.62(A)
116 Fluoranthene	202	11.537	11.537	(1.151)	7347329	50.0000	52.23(A)
134 Pyrene	202	11.853	11.853	(1.183)	7309632	50.0000	51.19(A)
* 154 Perylene-d12	264	16.492	16.492	(1.000)	70348	1.00000	
$ 135 Terphenyl-d14	244	12.113	12.113	(1.209)	4320889	50.0000	53.07(A)
138 Benzo(a)anthracene	228	13.824	13.824	(1.379)	5212847	50.0000	58.26(A)
139 Chrysene	228	13.889	13.889	(1.386)	4979558	50.0000	55.27(A)

8/29/11

Data File: \\ELABNSH05\TARGET\chem\bna4.i\082411B4.b\SEQ-CAL9.D
Report Date: 25-Aug-2011 13:29

Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	AMOUNTS CAL-AMT (ng/ul)	AMOUNTS ON-COL (ng/ul)
140 Bis(2-ethylhexyl)phthalate	149	14.019	14.019	(0.850)	5303978	50.0000	45.66
155 Di-n-octylphthalate	149	15.283	15.283	(0.927)	8291174	50.0000	51.63(A)
156 Benzo(b)fluoranthene	252	15.832	15.832	(0.960)	5195929	50.0000	55.32(A)
157 Benzo(k)fluoranthene	252	15.878	15.878	(0.963)	4981079	50.0000	52.40(A)
158 Benzo(a)pyrene	252	16.399	16.399	(0.994)	4141376	50.0000	52.31(A)
159 Indeno(1,2,3-cd)pyrene	276	18.351	18.351	(1.113)	3245468	50.0000	57.15(A)
160 Dibenz(a,h)anthracene	278	18.407	18.407	(1.116)	3304809	50.0000	59.30(A)
161 Benzo(g,h,i)perylene	276	18.825	18.825	(1.141)	3113525	50.0000	54.22(A)

QC Flag Legend

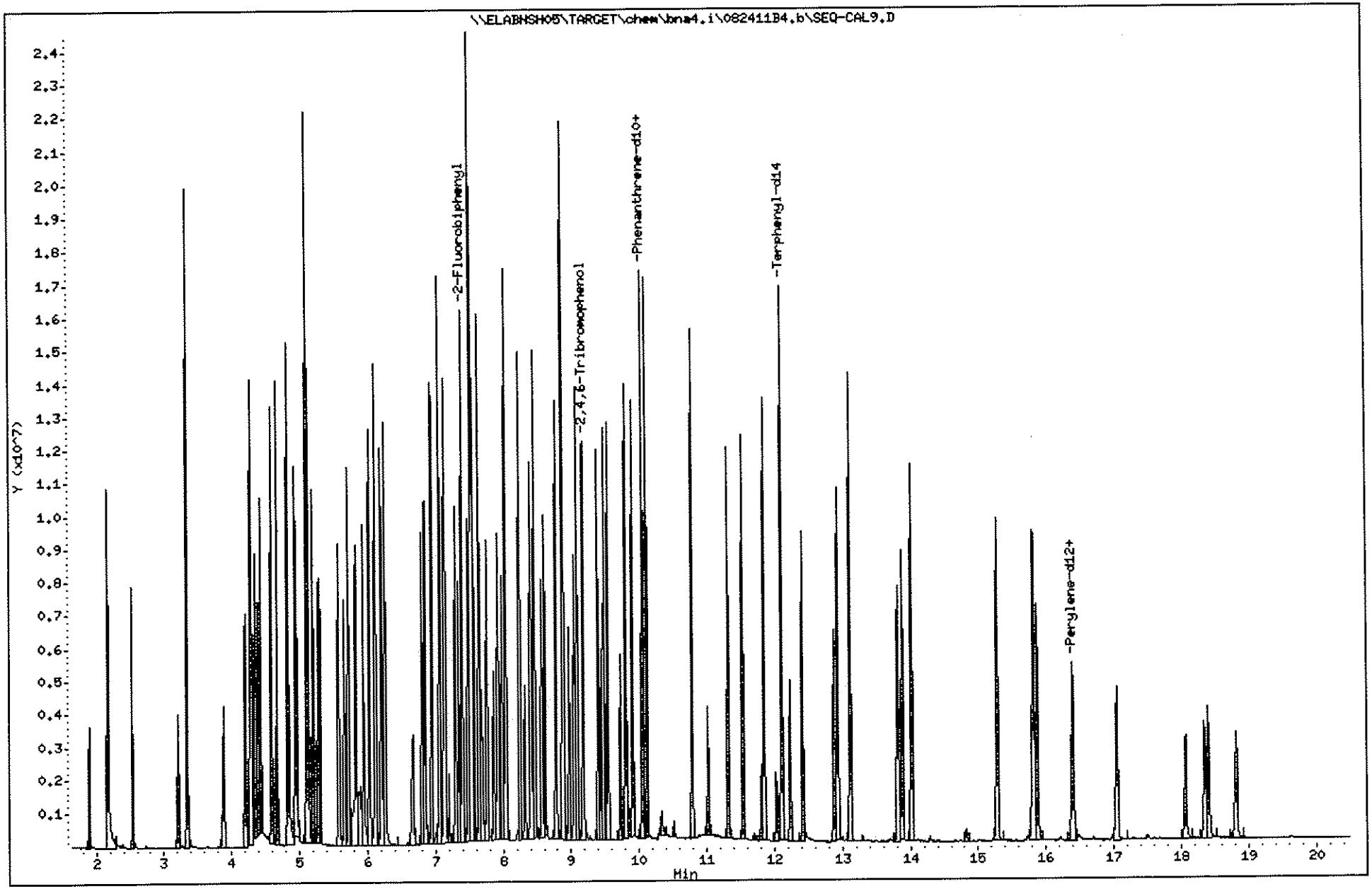
A - Target compound detected but, quantitated amount exceeded maximum amount.

Data File: \\ELABNSH05\TARGET\chem\bna4.i\082411B4.b\SEQ-CAL9.D
Date : 24-AUG-2011 18:33
Client ID: SEQ-CAL9
Sample Info: CAL-50.0PPM;;;;;11C0015

Column phase: fused silica

Instrument: bna4.i

Operator: HEC
Column diameter: 0.25



Data File: \\ELABNSH05\TARGET\chem\bna4.i\082411B4.b\SEQ-ICV1.D
Report Date: 25-Aug-2011 13:42

Laboratory Name

Data file : \\ELABNSH05\TARGET\chem\bna4.i\082411B4.b\SEQ-ICV1.D
Lab Smp Id: SEQ-ICV1 Client Smp ID: SEQ-ICV1
Inj Date : 24-AUG-2011 19:02 MS Autotune Date: 16-JUN-2011 16:30
Operator : MEC Inst ID: bna4.i
Smp Info : ICV-5.0PPM;;;;;
Misc Info : ;1;;;;;pahmisc.sub;
Comment :
Method : \\ELABNSH05\TARGET\chem\bna4.i\082411B4.b\IXBN4LOW.m
Meth Date : 25-Aug-2011 13:41 mcobb Quant Type: ISTD
Cal Date : 24-AUG-2011 18:33 Cal File: SEQ-CAL9.D
Als bottle: 11 QC Sample: ICV
Dil Factor: 1.00000
Integrator: HP RTE Compound Sublist: pahmisc.sub
Target Version: 4.04
Processing Host: TARGET09_VM

m 8/29/11

Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS ON-COLUMN (ng/ul)	FINAL (ng/ul)
* 102 Phenanthrene-d10	188	10.012	10.022	(1.000)	113055	1.00000	
4 1,4-Dioxane	88	1.897	1.897	(0.189)	103786	4.27335	4.273
21 N-Nitroso-di-n-propylamine	70	5.095	5.123	(0.509)	218009	5.33150	5.332
39 Isophorone	82	5.559	5.578	(0.555)	595518	5.37913	5.379
51 Naphthalene	128	6.108	6.117	(0.610)	957033	5.68707	5.687
53 Hexachlorobutadiene	225	6.257	6.266	(0.625)	186037	5.93043	5.930
55 2-Methylnaphthalene	142	6.935	6.954	(0.693)	510876	5.06751	5.068
56 1-Methylnaphthalene	142	7.056	7.065	(0.705)	485846	4.97085	4.971
70 Hexachlorocyclopentadiene	237	7.121	7.131	(0.711)	132522	4.50370	4.504
$ 74 2-Fluorobiphenyl	172	7.391	7.400	(0.738)	540325	5.05792	5.058
77 Acenaphthylene	152	8.023	8.042	(0.801)	816866	5.57804	5.578
80 Acenaphthene	153	8.237	8.255	(0.823)	553226	5.50990	5.510
84 Dibenzofuran	168	8.451	8.469	(0.844)	665044	5.49103	5.491
88 Fluorene	166	8.869	8.878	(0.886)	549202	5.73552	5.736
104 Carbazole	167	10.319	10.328	(1.031)	530599	5.89908	5.899
110 Pentachlorophenol	266	9.789	9.808	(0.978)	72423	4.98182	4.982
$ 107 2,4,6-Tribromophenol	330	9.166	9.185	(0.916)	216596	11.0663	11.07
111 Phenanthrene	178	10.040	10.059	(1.003)	733296	5.57400	5.574
109 Hexachlorobenzene	284	9.538	9.548	(0.953)	205796	5.08320	5.083
112 Anthracene	178	10.105	10.124	(1.009)	725464	5.62618	5.626
116 Fluoranthene	202	11.528	11.537	(1.151)	663951	5.35927	5.359
134 Pyrene	202	11.834	11.853	(1.182)	696555	5.53865	5.539
* 154 Perylene-d12	264	16.483	16.492	(1.000)	49469	1.00000	
$ 135 Terphenyl-d14	244	12.104	12.113	(1.209)	387658	5.40632	5.406
138 Benzo(a)anthracene	228	13.805	13.824	(1.379)	426949	5.41769	5.418
139 Chrysene	228	13.870	13.889	(1.385)	430417	5.42418	5.424

8/25/11

Data File: \\ELABNSH05\TARGET\chem\bna4.i\082411B4.b\SEQ-ICV1.D
Report Date: 25-Aug-2011 13:42

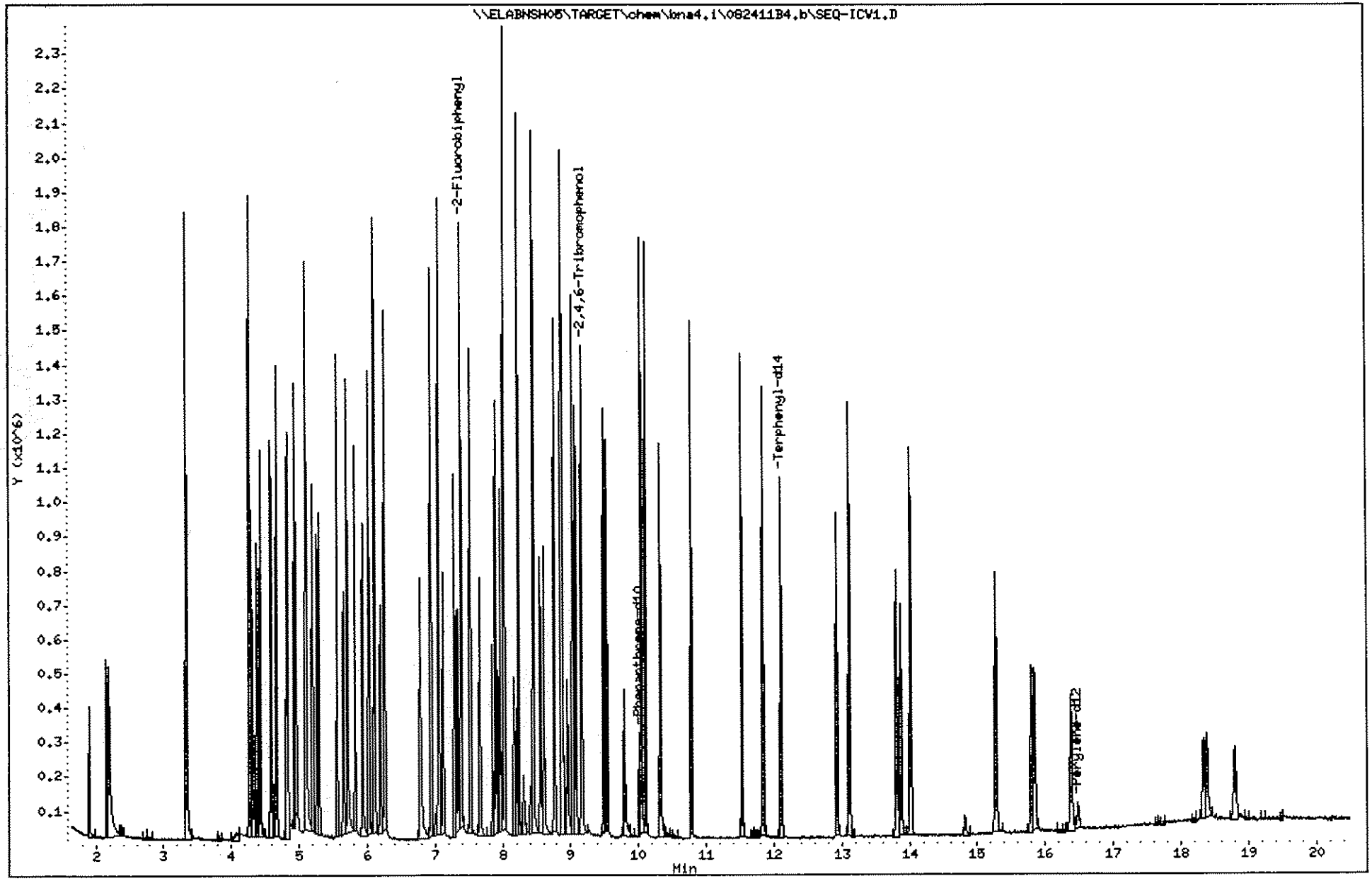
Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS ON-COLUMN (ng/ul)	FINAL (ng/ul)
140 Bis(2-ethylhexyl)phthalate	149	14.010	14.019	(0.850)	487320	5.96616	5.966
155 Di-n-octylphthalate	149	15.274	15.283	(0.927)	645580	5.71647	5.716
156 Benzo(b)fluoranthene	252	15.795	15.832	(0.958)	345363	5.22922	5.229
157 Benzo(k)fluoranthene	252	15.851	15.878	(0.962)	361843	5.41364	5.414
158 Benzo(a)pyrene	252	16.380	16.399	(0.994)	282753	5.07898	5.079
159 Indeno(1,2,3-cd)pyrene	276	18.333	18.351	(1.112)	200041	5.00902	5.009
160 Dibenz(a,h)anthracene	278	18.388	18.407	(1.116)	217402	5.54781	5.548
161 Benzo(g,h,i)perylene	276	18.797	18.825	(1.140)	204971	5.07561	5.076

Data File: \\ELABNSHO5\TARGET\chem\bna4.i\082411B4.b\SEQ-ICV1.D
Date : 24-AUG-2011 19:02
Client ID: SEQ-ICV1
Sample Info: ICV-5.0PPM;;;;;

Column phase: fused silica

Instrument: bna4.i

Operator: HEC
Column diameter: 0.25

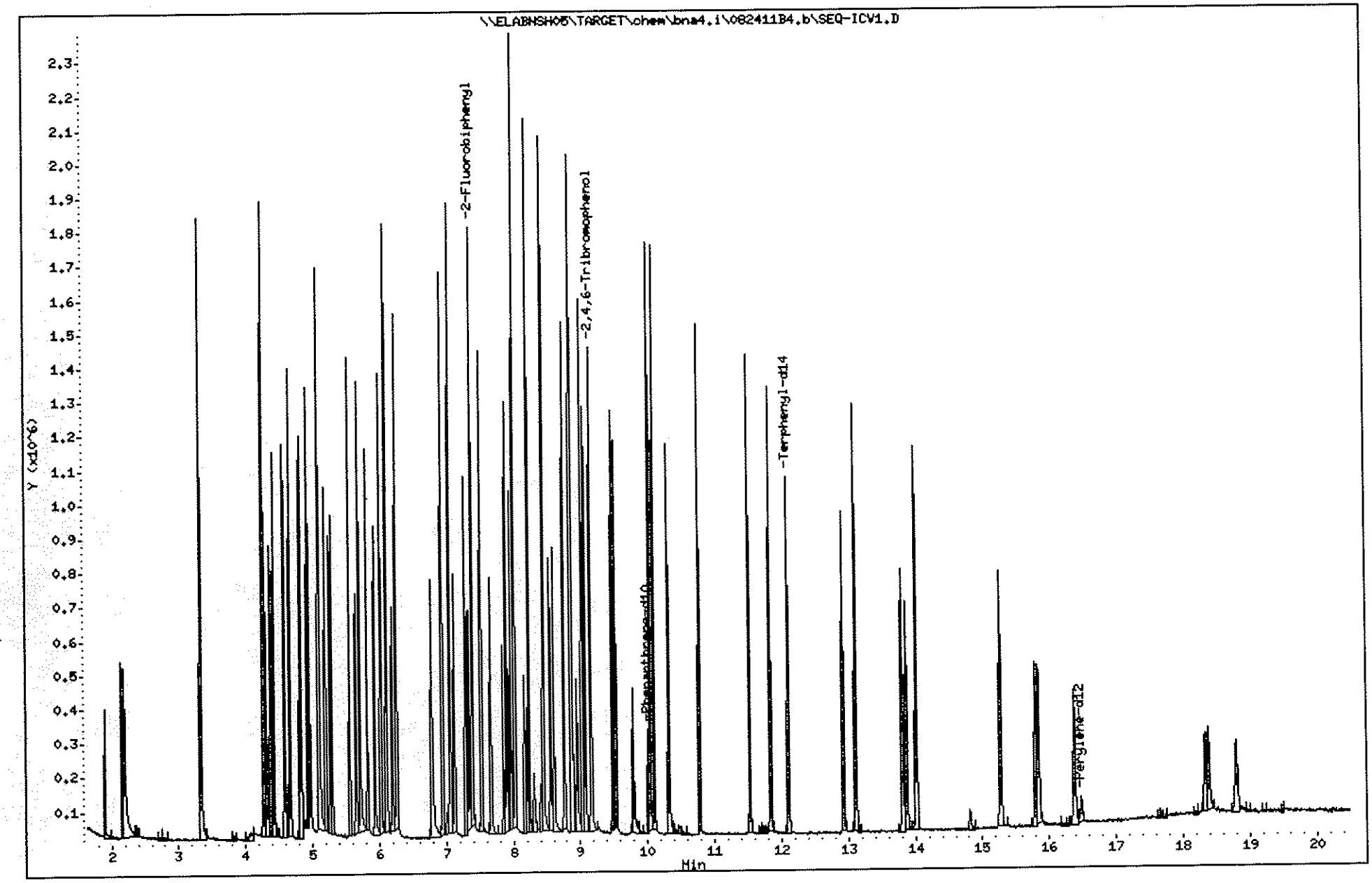


Data File: \\ELABNSH05\TARGET\chem\bna4.i\082411B4.b\SEQ-ICV1.D
Date : 24-AUG-2011 19:02
Client ID: SEQ-ICV1
Sample Info: ICV-5.0PPM;;;;;

Column phase: fused silica

Instrument: bna4.i

Operator: HEC
Column diameter: 0.25



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1110003

Sequence Name: C:\msdchem\1\sequence\102611b4.S
Comment: EPA8270
Operator: MEC
Data Path: D:\DATA\102611B4\
Instrument Control Pre-Seq Cmd:
Data Analysis Pre-Seq Cmd:

1012

Instrument Control Post-Seq Cmd:
Data Analysis Post-Seq Cmd:

10/27/11

Method Sections To Run
(X) Full Method
( ) Reprocessing Only

On A Barcode Mismatch
(X) Inject Anyway
( ) Don't Inject

Line			Sample Name/Misc Info	
1)	Sample	1	SEQ-TUN1 DFBN4LOW DF1026B1;;;;;;11J0328	10:04, 10/26
2)	Sample	2	SEQ-CCV1 IXBN4LOW CCV-5.0PPM;;;;;;11J0587	
3)	Spike	3	J06004L1 IXBN4LOW 1J06004-BS2;1;1000;1000;1;UG/	
4)	Blank	4	J06004B1 IXBN4LOW 1J06004-BLK2;1;1000;1000;1;UG	IS@40
5)	Sample	5	1001601 IXBN4LOW 1110016-01;1;1000;1000;1;UG/L	
6)	Spike	6	J05016L1 IXBN4LOW 1J0~~6004~~-BS2;1;15;1000;1;UG/KG	5016
7)	Spike	7	J05016L2 IXBN4LOW 1J0~~6004~~-BS3;1;15;1000;1;UG/KG	5016
8)	Blank	8	J05016B1 IXBN4LOW 1J0~~6004~~-BLK2;1;15;1000;1;UG/K	5016
9)	Sample	9	1001701 IXBN4LOW 1110017-01;1;15;1000;1;UG/KG;	
10)	Sample	10	1001702 IXBN4LOW 1110017-02;1;15;1000;1;UG/KG;	
11)	Sample	11	1001703 IXBN4LOW 1110017-03;1;15;1000;1;UG/KG;	
12)	Sample	12	1001704 IXBN4LOW 1110017-04;1;15;1000;1;UG/KG;	T1
13)	Sample	13	1001705 IXBN4LOW 1110017-05;1;15;1000;1;UG/KG;	
14)	Sample	14	1001706 IXBN4LOW 1110017-06;1;15;1000;1;UG/KG;	
15)	Sample	15	1001707 IXBN4LOW 1110017-07;1;15;1000;1;UG/KG;	
16)	Sample	16	1001708 IXBN4LOW 1110017-08;1;15;1000;1;UG/KG;	
17)	Sample	17	1001709 IXBN4LOW 1110017-09;1;15;1000;1;UG/KG;	
18)	Sample	18	1001710 IXBN4LOW 1110017-10;1;15;1000;1;UG/KG;	
19)	Sample	19	1001711 IXBN4LOW 1110017-11;1;15;1000;1;UG/KG;	
20)	Sample	20	1001712 IXBN4LOW 1110017-12;1;15;1000;1;UG/KG;	
21)	Sample	21	1001713 IXBN4LOW 1110017-13;1;15;1000;1;UG/KG;	
22)	Sample	22	1001714 IXBN4LOW 1110017-14;1;15;1000;1;UG/KG;	20:22, 10/26
23)	Sample	1	SEQ-TUN2 DFBN4LOW DF1026B2;;;;;;11J0328	20:57, 10/26
24)	Sample	2	SEQ-CCV2 IXBN4LOW CCV-5.0PPM;;;;;;11J0587	
25)	Spike	23	J03003L1 IXBN4LOW 1J03003-BS2;1;1000;1000;1;UG/	
26)	Blank	24	J03003B1 IXBN4LOW 1J03003-BLK2;1;1000;1000;1;UG	
27)	Sample	25	1000301 IXBN4LOW 1110003-01;1;1000;1000;1;UG/L	
28)	Sample	26	1000303 IXBN4LOW 1110003-03;1;1000;1000;1;UG/L	
29)	Sample	27	1000305 IXBN4LOW 1110003-05;1;1000;1000;1;UG/L	T2
30)	Sample	28	1000307 IXBN4LOW 1110003-07;1;1000;1000;1;UG/L	
31)	Sample	29	1000309 IXBN4LOW 1110003-09;1;1000;1000;1;UG/L	
32)	Sample	30	1000311 IXBN4LOW 1110003-11;1;1000;1000;1;UG/L	
33)	Sample	31	1000312 IXBN4LOW 1110003-12;1;1000;1000;1;UG/L	
34)	Sample	32	1000314 IXBN4LOW 1110003-14;1;1000;1000;1;UG/L	
35)	Spike	33	1000312M IXBN4LOW 1J03003-MS2;1;1000;1000;1;UG/	
36)	Duplicate	34	1000312S IXBN4LOW 1J03003-MSD2;1;1000;1000;1;UG	3:07, 10/27

Data File: \\ELABNSH05\TARGET\chem\bna4.i\102611B4E.b\SEQ-TUN2.D

Date : 26-OCT-2011 20:57

Client ID: 50ppm DFTPP

Instrument: bna4.i

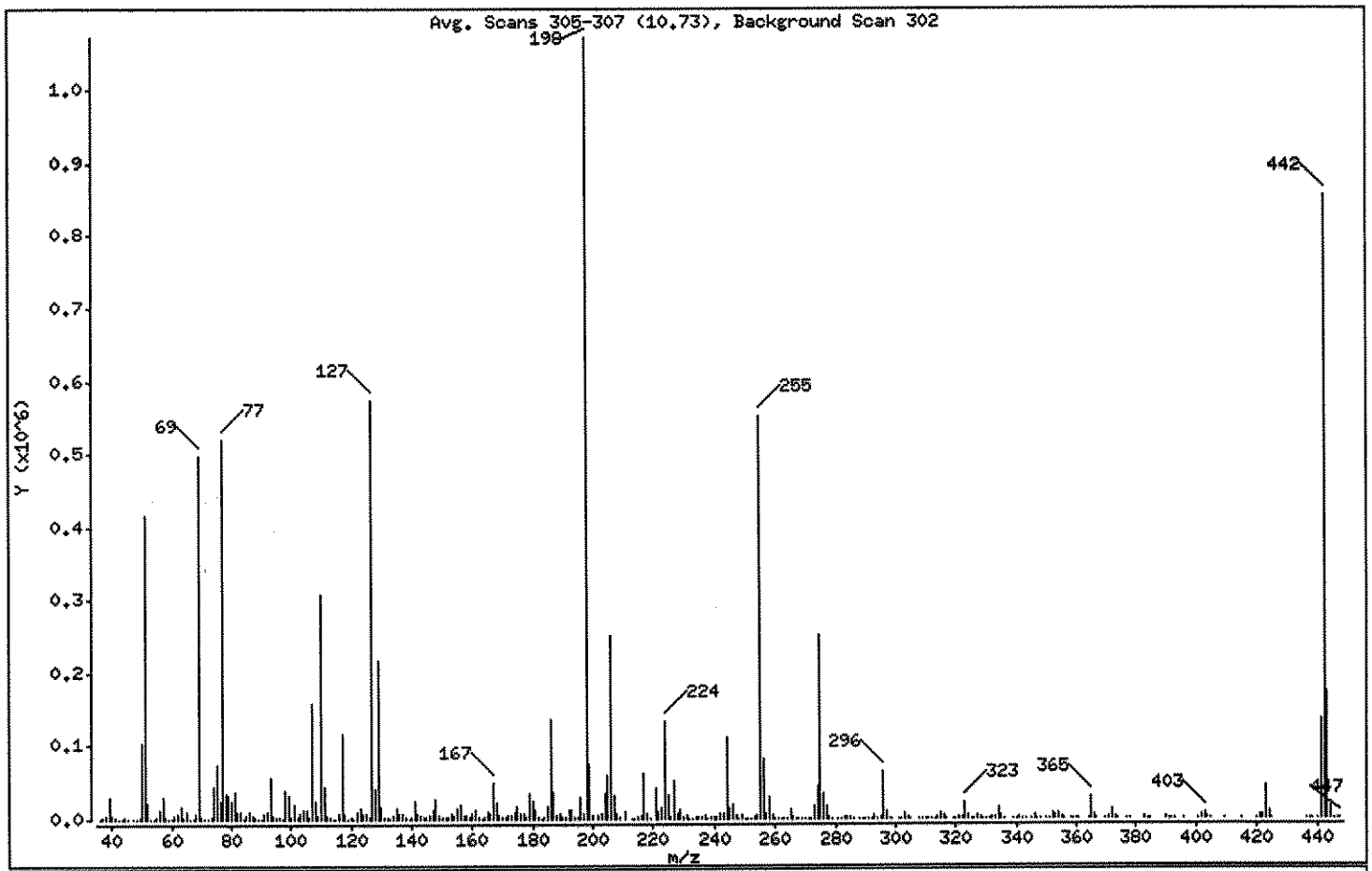
Sample Info: DF1026B2;;;;;;11J0328

Operator: MEC

Column phase: DB5-MS

Column diameter: 0.25

1 dftpp



m/e	ION ABUNDANCE CRITERIA	% RELATIVE ABUNDANCE
198	Base Peak, 100% relative abundance	100.00
51	30.00 - 60.00% of mass 198	38.86
68	Less than 2.00% of mass 69	0.65 (1.41)
69	Mass 69 relative abundance	46.34
70	Less than 2.00% of mass 69	0.23 (0.49)
127	40.00 - 60.00% of mass 198	53.49
197	Less than 1.00% of mass 198	0.59
199	5.00 - 9.00% of mass 198	6.98
275	10.00 - 30.00% of mass 198	23.45
365	Greater than 1.00% of mass 198	2.66
441	Present, but less than mass 443	12.63
442	Greater than 40.00% of mass 198	79.78
443	17.00 - 23.00% of mass 442	16.18 (20.28)

11.1.11

MEC 10/27/11

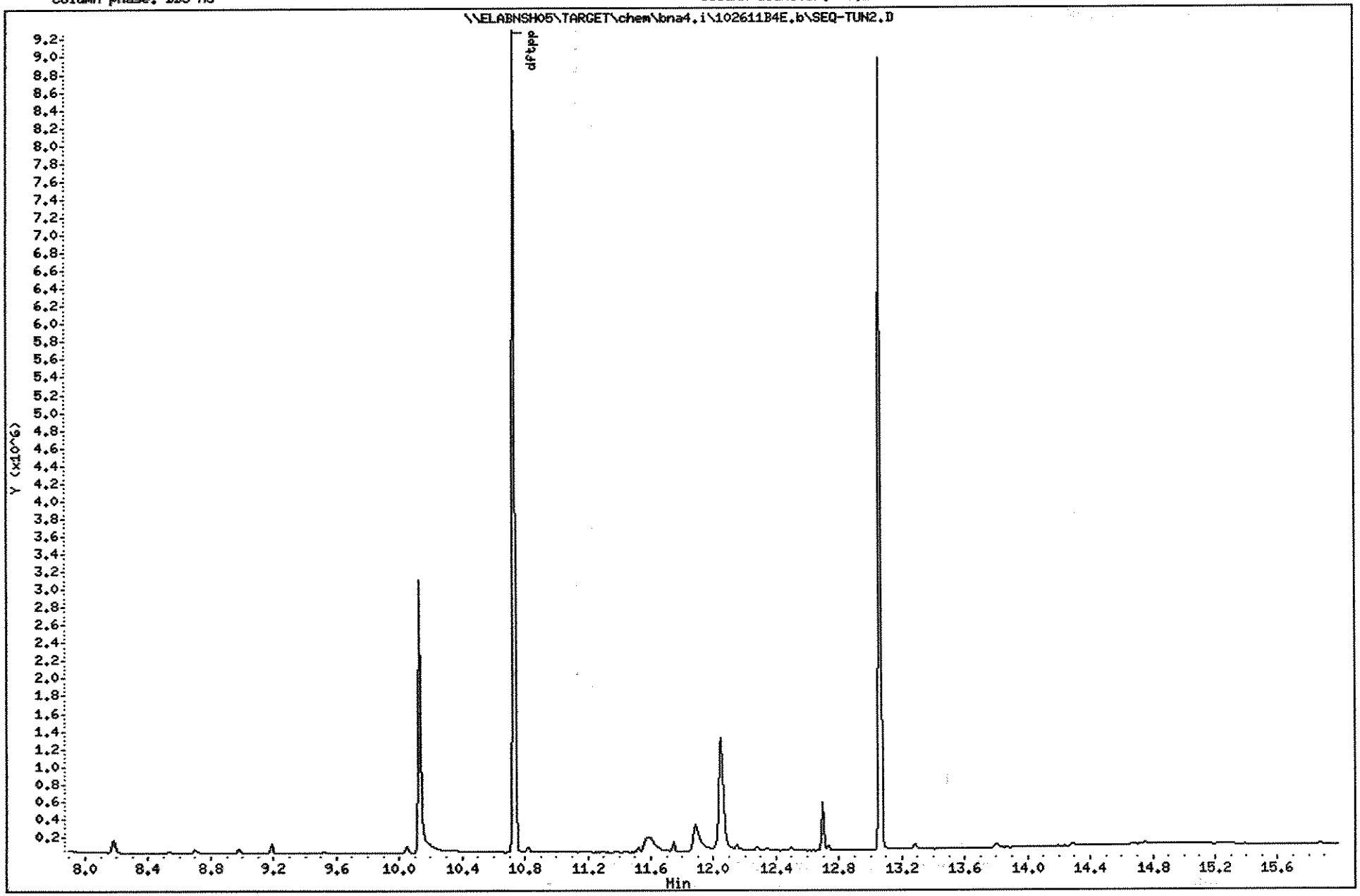
Data File: \\ELABNSH05\TARGET\chem\bna4.i\102611B4E.b\SEQ-TUN2.D
Date : 26-OCT-2011 20:57
Client ID: 50ppm DFTPP
Sample Info: DF1026B2;;;;;;11J0328

Instrument: bna4.i

Operator: MEC

Column phase: DB5-MS

Column diameter: 0.25



Data File: \\ELABNSH05\TARGET\chem\bna4.i\102611B4.b\SEQ-CCV2.D
Report Date: 27-Oct-2011 09:56

Laboratory Name

J.H. 11.1.11

Data file : \\ELABNSH05\TARGET\chem\bna4.i\102611B4.b\SEQ-CCV2.D
Lab Smp Id: SEQ-CCV1 Client Smp ID: SEQ-CCV1
Inj Date : 26-OCT-2011 21:14 MS Autotune Date: 23-OCT-2011 10:06
Operator : MEC Inst ID: bna4.i
Smp Info : CCV-5.0PPM;;;;;;11J0587
Misc Info : ;;;;;;pahmisc.sub;
Comment :
Method : \\ELABNSH05\TARGET\chem\bna4.i\102611B4.b\IXBN4LOW.m
Meth Date : 27-Oct-2011 09:56 mcobb Quant Type: ISTD
Cal Date : 24-AUG-2011 18:33 Cal File: SEQ-CAL9.D
Als bottle: 2 Continuing Calibration Sample
Dil Factor: 1.00000
Integrator: HP RTE Compound Sublist: pahmisc.sub
Target Version: 4.04
Processing Host: TARGET09_VM

Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	AMOUNTS CAL-AMT (ng/ul)	AMOUNTS ON-COL (ng/ul)
* 102 Phenanthrene-d10	188	10.361	10.361	(1.000)	135386	1.00000	
4 1,4-Dioxane	88	2.143	2.143	(0.207)	112320	5.00000	3.862
21 N-Nitroso-di-n-propylamine	70	5.397	5.397	(0.521)	217220	5.00000	4.436
39 Isophorone	82	5.862	5.862	(0.566)	577761	5.00000	4.358
51 Naphthalene	128	6.429	6.429	(0.620)	941237	5.00000	4.671
53 Hexachlorobutadiene	225	6.578	6.578	(0.635)	185874	5.00000	4.948
55 2-Methylnaphthalene	142	7.266	7.266	(0.701)	591867	5.00000	4.902
56 1-Methylnaphthalene	142	7.386	7.386	(0.713)	581574	5.00000	4.969
70 Hexachlorocyclopentadiene	237	7.451	7.451	(0.719)	139392	5.00000	3.998
$ 74 2-Fluorobiphenyl	172	7.712	7.712	(0.744)	669786	5.00000	5.236
77 Acenaphthylene	152	8.362	8.362	(0.807)	899848	5.00000	5.131
80 Acenaphthene	153	8.576	8.576	(0.828)	587398	5.00000	4.885
84 Dibenzofuran	168	8.790	8.790	(0.848)	737513	5.00000	5.085
88 Fluorene	166	9.208	9.208	(0.889)	594918	5.00000	5.188
104 Carbazole	167	10.668	10.668	(1.030)	616772	5.00000	5.726
110 Pentachlorophenol	266	10.138	10.138	(0.978)	56747	5.00000	3.650
$ 107 2,4,6-Tribromophenol	330	9.506	9.506	(0.917)	225401	10.0000	9.616
111 Phenanthrene	178	10.398	10.398	(1.004)	767104	5.00000	4.869
109 Hexachlorobenzene	284	9.878	9.878	(0.953)	241112	5.00000	4.973
112 Anthracene	178	10.463	10.463	(1.010)	748685	5.00000	4.848
116 Fluoranthene	202	11.932	11.932	(1.152)	751605	5.00000	5.066
134 Pyrene	202	12.267	12.267	(1.184)	759502	5.00000	5.043
* 154 Perylene-d12	264	17.082	17.082	(1.000)	75087	1.00000	
$ 135 Terphenyl-d14	244	12.537	12.537	(1.210)	496186	5.00000	5.778
138 Benzo(a)anthracene	228	14.331	14.331	(1.383)	537281	5.00000	5.693
139 Chrysene	228	14.396	14.396	(1.389)	536632	5.00000	5.647

MEC
10/27/11

Data File: \\ELABNSH05\TARGET\chem\bna4.i\102611B4.b\SEQ-CCV2.D
Report Date: 27-Oct-2011 09:56

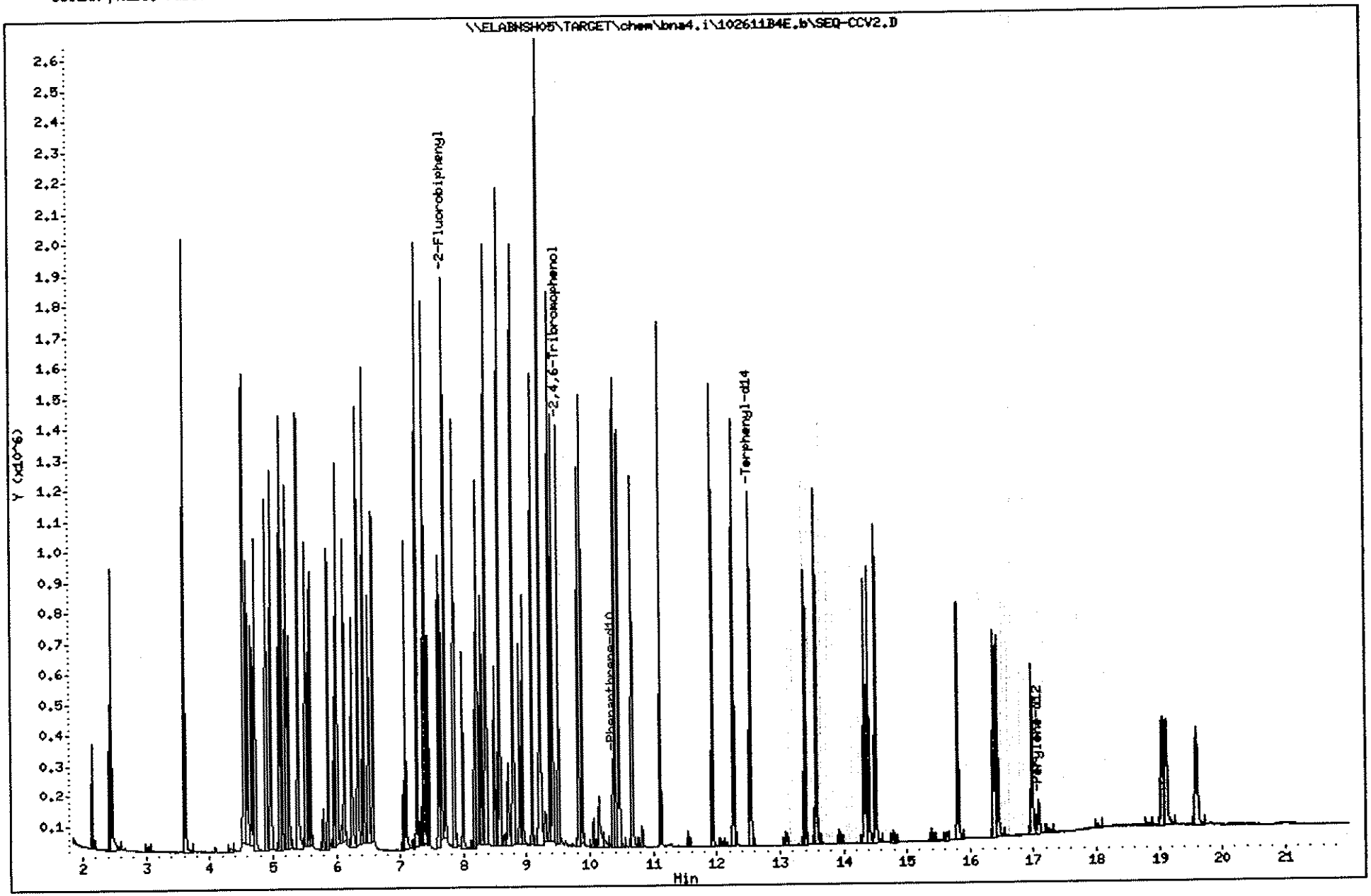
Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	AMOUNTS CAL-AMT (ng/ul)	AMOUNTS ON-COL (ng/ul)
140 Bis(2-ethylhexyl)phthalate	149	14.507	14.507	(0.849)	545958	5.00000	4.404
155 Di-n-octylphthalate	149	15.809	15.809	(0.925)	762066	5.00000	4.446
156 Benzo(b)fluoranthene	252	16.376	16.376	(0.959)	481656	5.00000	4.805
157 Benzo(k)fluoranthene	252	16.432	16.432	(0.962)	495949	5.00000	4.888
158 Benzo(a)pyrene	252	16.980	16.980	(0.994)	419759	5.00000	4.967
159 Indeno(1,2,3-cd)pyrene	276	19.044	19.044	(1.115)	331236	5.00000	5.464
160 Dibenz(a,h)anthracene	278	19.109	19.109	(1.119)	335952	5.00000	5.648
161 Benzo(g,h,i)perylene	276	19.583	19.583	(1.146)	350695	5.00000	5.721

Data File: \\ELABNSH05\TARGET\chem\bna4.i\102611B4E.b\SEQ-CCV2.D
Date : 26-OCT-2011 21:14
Client ID: SEQ-CCV1
Sample Info: CCV-5.0PPM;;;;;;1110587

Column phase: fused silica

Instrument: bna4.i

Operator: HEC
Column diameter: 0.25



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1110003

Data File: \\ELABNSH05\TARGET\chem\bna4.i\102611B4E.b\J03003L1.D
Report Date: 28-Oct-2011 10:40

Laboratory Name

JH. 11.1.11

Data file : \\ELABNSH05\TARGET\chem\bna4.i\102611B4E.b\J03003L1.D
Lab Smp Id: 1J03003-BS2 Client Smp ID: 1J03003-BS2
Inj Date : 26-OCT-2011 21:44 MS Autotune Date: 23-OCT-2011 10:06
Operator : MEC Inst ID: bna4.i
Smp Info : 1J03003-BS2;1;1000;1000;1;UG/L;03-OCT-2011
Misc Info : ;3;LCS;;;1J03003;pahmisc.sub;
Comment :
Method : \\ELABNSH05\TARGET\chem\bna4.i\102611B4E.b\IXBN4LOW.m
Meth Date : 28-Oct-2011 10:39 mcobb Quant Type: ISTD
Cal Date : 24-AUG-2011 18:33 Cal File: SEQ-CAL9.D
Als bottle: 23 QC Sample: LCS
Dil Factor: 1.00000
Integrator: HP RTE Compound Sublist: pahmisc.sub
Target Version: 4.04
Processing Host: TARGET09_VM

Concentration Formula: Amt * DF * Uf * Vt* Vi/(Amt * Vi)

Name	Value	Description
DF	1.000	Dilution Factor
Uf	1.000	ng unit correction factor
Vt	1000.000	Volume of final extract (uL)
Vi	1.000	Volume injected (uL)
Amt	1000.000	Volume of initial extraction

Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS ON-COLUMN (ng/ul)	FINAL (ug/L)
* 102 Phenanthrene-d10	188	10.361	10.361	(1.000)	132303	1.00000	
21 N-Nitroso-di-n-propylamine	70	5.397	5.397	(0.521)	41888	0.87536	0.8754
39 Isophorone	82	5.862	5.862	(0.566)	96711	0.74647	0.7465
51 Naphthalene	128	6.429	6.429	(0.620)	154533	0.78470	0.7847
53 Hexachlorobutadiene	225	6.578	6.578	(0.635)	29858	0.81333	0.8133
55 2-Methylnaphthalene	142	7.266	7.266	(0.701)	98770	0.83719	0.8372
56 1-Methylnaphthalene	142	7.386	7.386	(0.713)	100736	0.88072	0.8807
70 Hexachlorocyclopentadiene	237	7.442	7.451	(0.718)	10848	0.64005	0.6400
$ 74 2-Fluorobiphenyl	172	7.721	7.712	(0.745)	5010866	40.0820	40.08
77 Acenaphthylene	152	8.363	8.362	(0.807)	127608	0.74461	0.7446
80 Acenaphthene	153	8.576	8.576	(0.828)	97422	0.82912	0.8291
84 Dibenzofuran	168	8.790	8.790	(0.848)	125184	0.88323	0.8832
88 Fluorene	166	9.208	9.208	(0.889)	97122	0.86672	0.8667
104 Carbazole	167	10.668	10.668	(1.030)	90187	0.85680	0.8568

MEC
10/28/11

Data File: \\ELABNSH05\TARGET\chem\bna4.i\102611B4E.b\J03003L1.D
Report Date: 28-Oct-2011 10:40

Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS ON-COLUMN (ng/ul)	FINAL (ug/L)
110 Pentachlorophenol	266	10.296	10.138	(0.994)	3163	1.26222	1.262(RM)
$ 107 2,4,6-Tribromophenol	330	9.515	9.506	(0.918)	1641670	71.6731	71.67
111 Phenanthrene	178	10.398	10.398	(1.004)	149948	0.97398	0.9740
109 Hexachlorobenzene	284	9.878	9.878	(0.953)	41026	0.86592	0.8659
112 Anthracene	178	10.464	10.463	(1.010)	112991	0.74879	0.7488
116 Fluoranthene	202	11.932	11.932	(1.152)	125614	0.86642	0.8664
134 Pyrene	202	12.267	12.267	(1.184)	116971	0.79478	0.7948
* 154 Perylene-d12	264	17.083	17.082	(1.000)	42171	1.00000	
$ 135 Terphenyl-d14	244	12.537	12.537	(1.210)	3449207	41.1048	41.10
138 Benzo(a)anthracene	228	14.331	14.331	(1.383)	62473	0.67741	0.6774
139 Chrysene	228	14.396	14.396	(1.389)	62787	0.67614	0.6761
140 Bis(2-ethylhexyl)phthalate	149	14.507	14.507	(0.849)	96439	1.38501	1.385(R)
155 Di-n-octylphthalate	149	15.800	15.809	(0.925)	111863	1.16194	1.162
156 Benzo(b)fluoranthene	252	16.376	16.376	(0.959)	50208	0.89177	0.8918
157 Benzo(k)fluoranthene	252	16.432	16.432	(0.962)	51706	0.90746	0.9075
158 Benzo(a)pyrene	252	16.980	16.980	(0.994)	33535	0.70662	0.7066
159 Indeno(1,2,3-cd)pyrene	276	19.044	19.044	(1.115)	29385	0.86313	0.8631
160 Dibenz(a,h)anthracene	278	19.109	19.109	(1.119)	26729	0.80013	0.8001
161 Benzo(g,h,i)perylene	276	19.593	19.583	(1.147)	29655	0.86142	0.8614

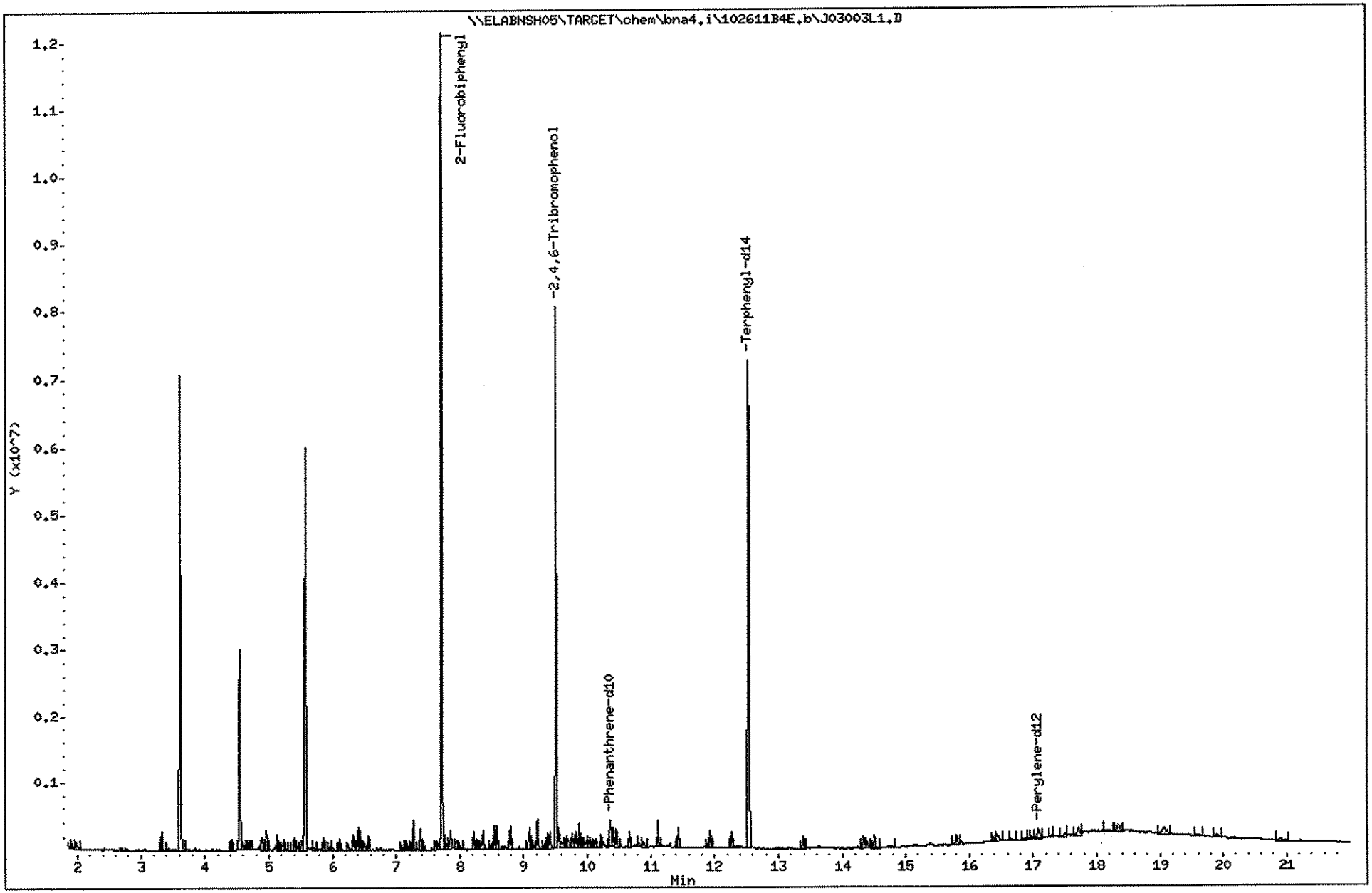
QC Flag Legend

R - Spike/Surrogate failed recovery limits.
M - Compound response manually integrated.

Data File: \\ELABNSH05\TARGET\chem\bna4.i\102611B4E.b\J03003L1.D
Date : 26-OCT-2011 21:44
Client ID: 1J03003-BS2
Sample Info: 1J03003-BS2;1;1000;1000;1;UG/L;03-OCT-2011
Volume Injected (uL): 1.0
Column phase: fused silica

Instrument: bna4.i

Operator: HEC
Column diameter: 0.25



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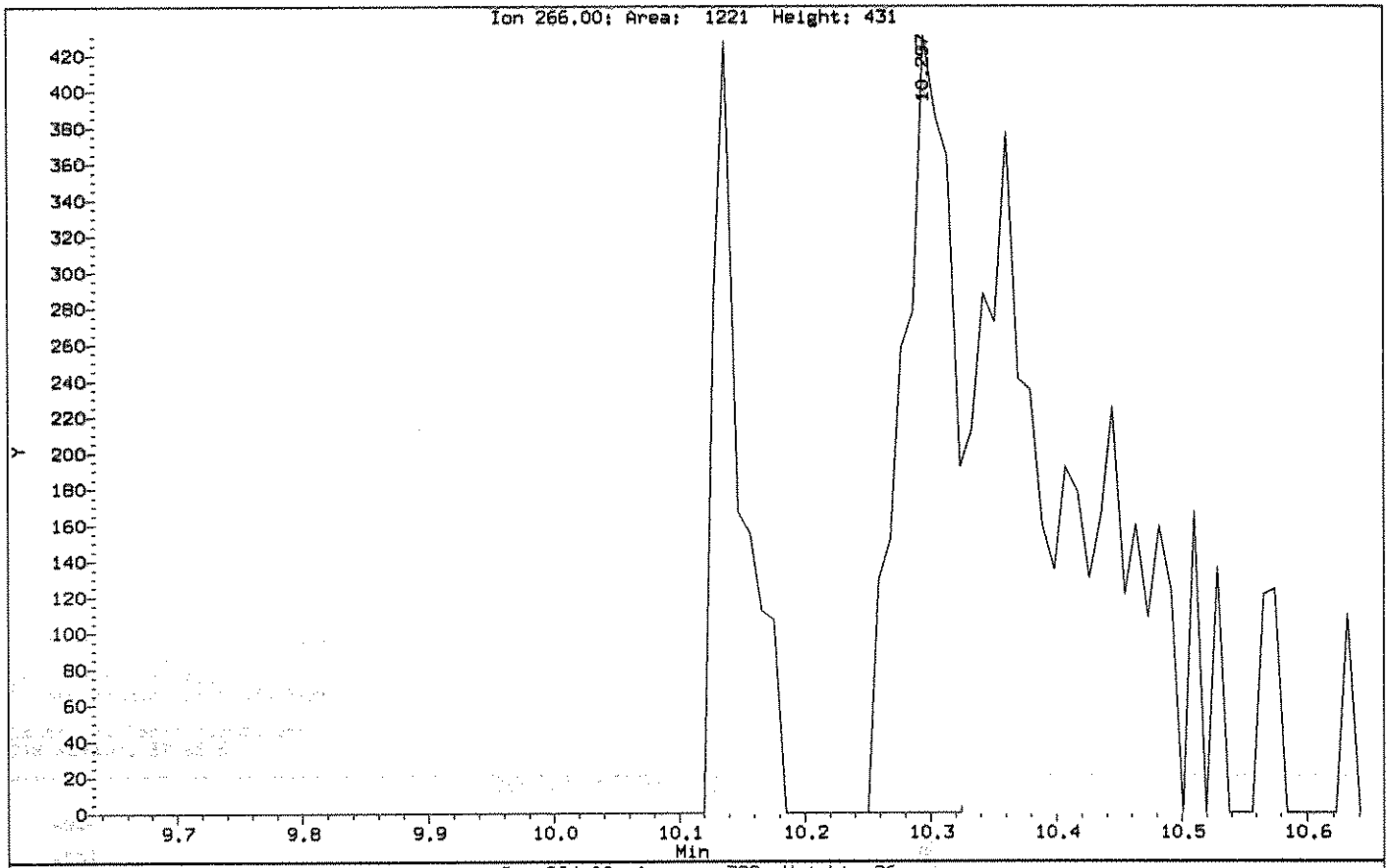
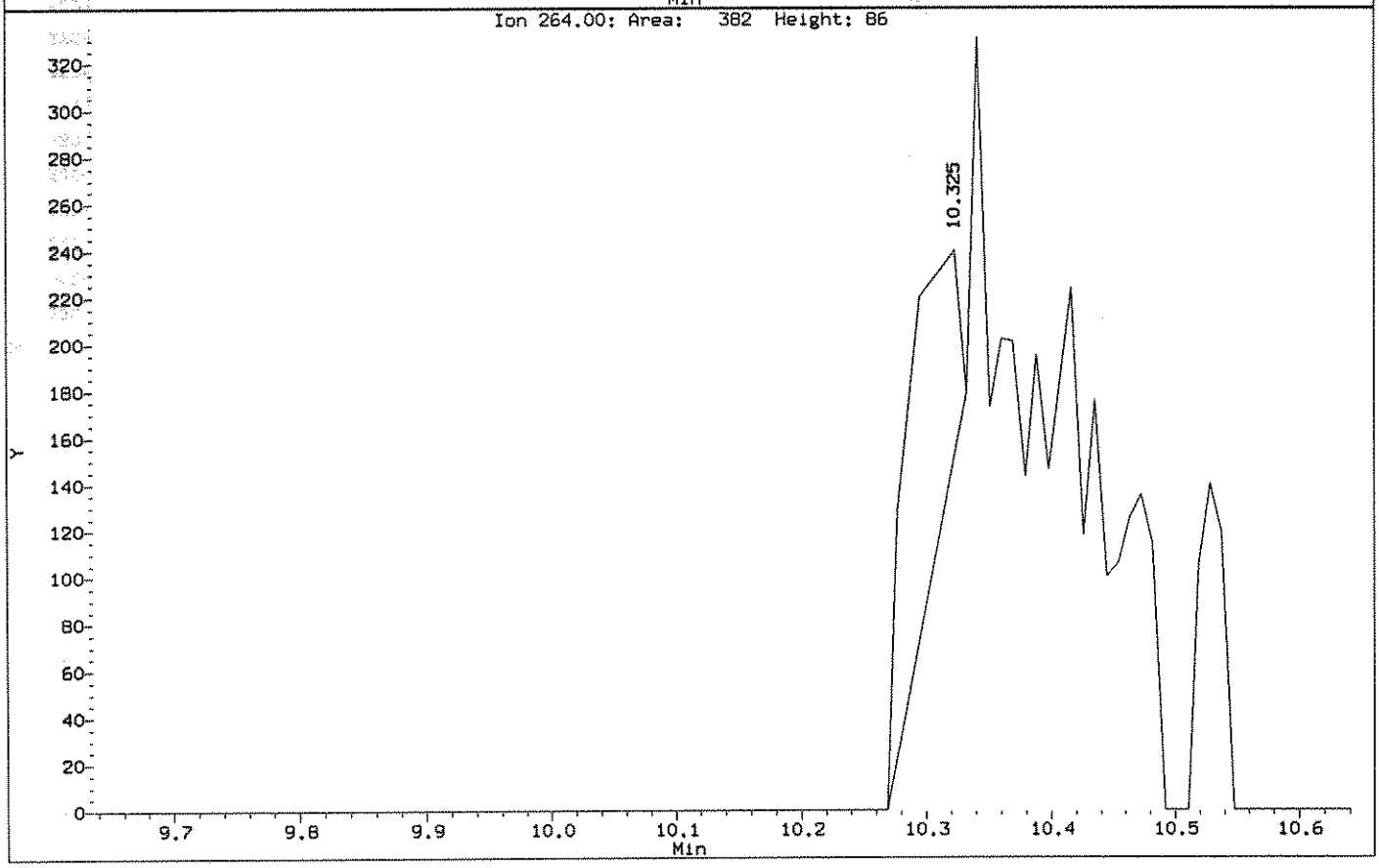
1110003

Data File: \\ELABNSH05\TARGET\chem\bna4.i\102611B4E.b\J03003L1.D
Injection Date: 26-OCT-2011 21:44
Instrument: bna4.i
Client Sample ID: 1J03003-BS2

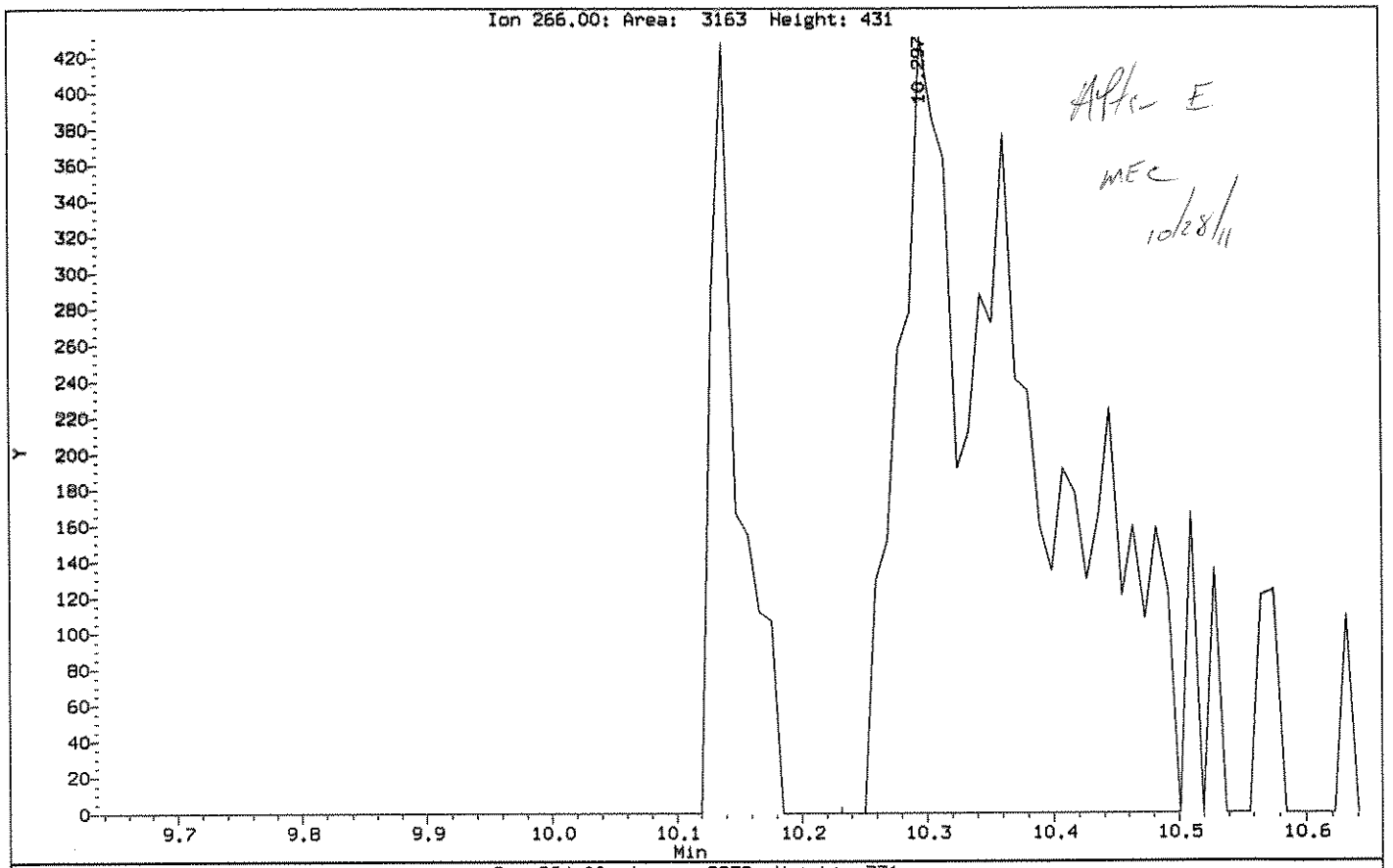
Compound: Pentachlorophenol
CAS Number: 87-86-5

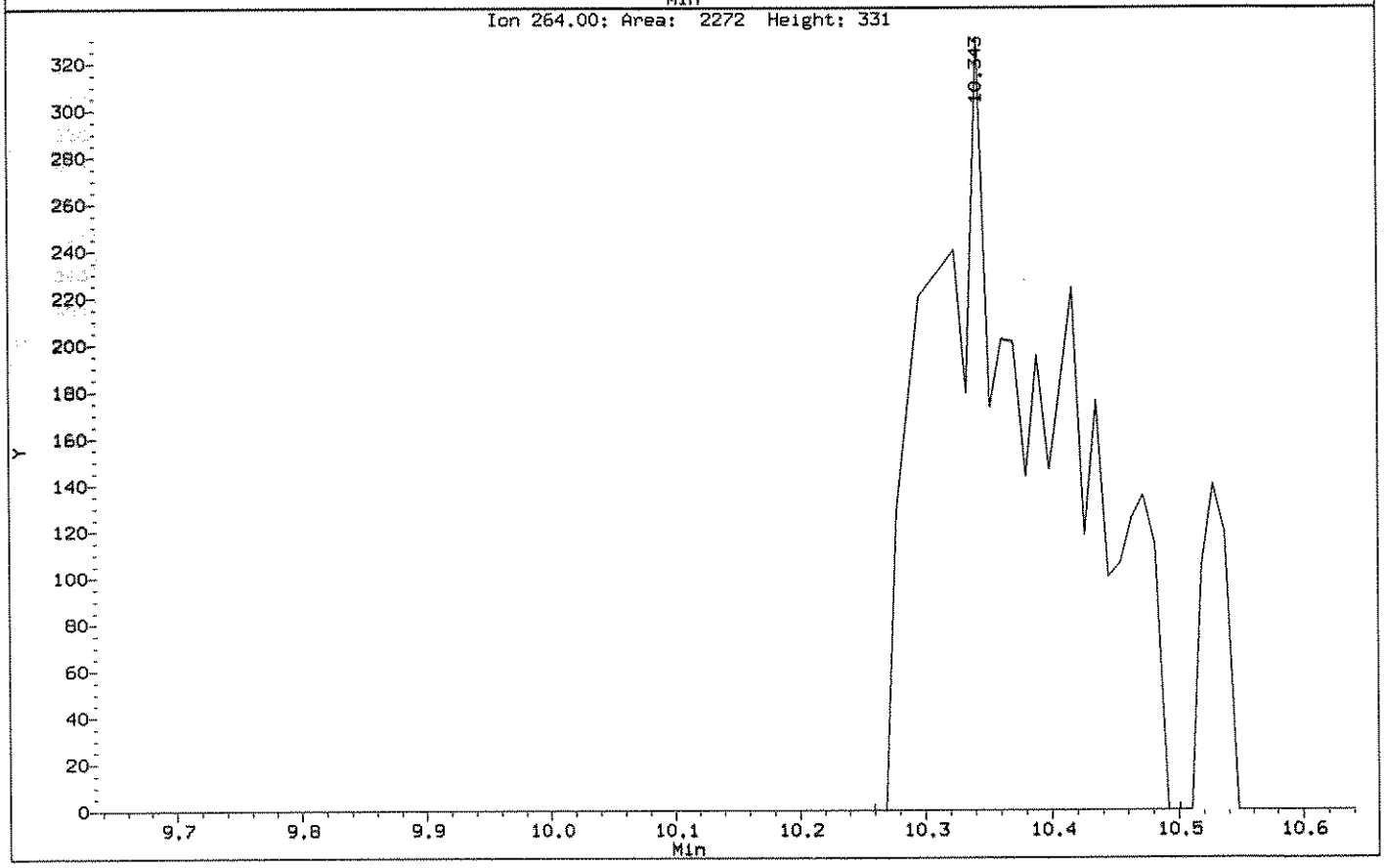




Data File: \\ELABNSH05\TARGET\chem\bna4.i\102611B4E.b\J03003L1.D
Injection Date: 26-OCT-2011 21:44
Instrument: bna4.i
Client Sample ID: 1J03003-BS2

Compound: Pentachlorophenol
CAS Number: 87-86-5





Data File: \\ELABNSH05\TARGET\chem\bna4.i\102611B4E.b\J03003B1.D
Report Date: 28-Oct-2011 10:40

J.H. 11.1.11

Laboratory Name

Data file : \\ELABNSH05\TARGET\chem\bna4.i\102611B4E.b\J03003B1.D
Lab Smp Id: 1J03003-BLK2 Client Smp ID: 1J03003-BLK2
Inj Date : 26-OCT-2011 22:13 MS Autotune Date: 23-OCT-2011 10:06
Operator : MEC Inst ID: bna4.i
Smp Info : 1J03003-BLK2;1;1000;1000;1;UG/L;03-OCT-2011
Misc Info : ;3;BLANK;;;1J03003;pahmisc.sub;
Comment :
Method : \\ELABNSH05\TARGET\chem\bna4.i\102611B4E.b\IXBN4LOW.m
Meth Date : 28-Oct-2011 10:39 mcobb Quant Type: ISTD
Cal Date : 24-AUG-2011 18:33 Cal File: SEQ-CAL9.D
Als bottle: 24 QC Sample: BLANK
Dil Factor: 1.00000
Integrator: HP RTE Compound Sublist: pahmisc.sub
Target Version: 4.04
Processing Host: TARGET09_VM

Concentration Formula: Amt * DF * Uf * Vt* Vi/(Amt * Vi)

Name	Value	Description
DF	1.000	Dilution Factor
Uf	1.000	ng unit correction factor
Vt	1000.000	Volume of final extract (uL)
Vi	1.000	Volume injected (uL)
Amt	1000.000	Volume of initial extraction

Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS ON-COLUMN (ng/ul)	FINAL (ug/L)
* 102 Phenanthrene-d10	188	10.370	10.361	(1.000)	158288	1.00000	
$ 74 2-Fluorobiphenyl	172	7.721	7.712	(0.745)	4947015	33.0751	33.08
$ 107 2,4,6-Tribromophenol	330	9.515	9.506	(0.918)	2113594	77.1283	77.13
111 Phenanthrene	178	10.398	10.398	(1.003)	14857	0.08066	0.08066
116 Fluoranthene	202	11.932	11.932	(1.151)	6902	0.03979	0.03979(a)
134 Pyrene	202	12.267	12.267	(1.183)	4145	0.02354	0.02354(a)
* 154 Perylene-d12	264	17.082	17.082	(1.000)	52721	1.00000	
$ 135 Terphenyl-d14	244	12.546	12.537	(1.210)	5142914	51.2277	51.23(A)
140 Bis(2-ethylhexyl)phthalate	149	14.507	14.507	(0.849)	9210	0.10580	0.1058
155 Di-n-octylphthalate	149	15.883	15.809	(0.930)	4895	0.04067	0.04067(a)

MEC
10/28/11

Data File: \\ELABNSH05\TARGET\chem\bna4.i\102611B4E.b\J03003B1.D
Report Date: 28-Oct-2011 10:40

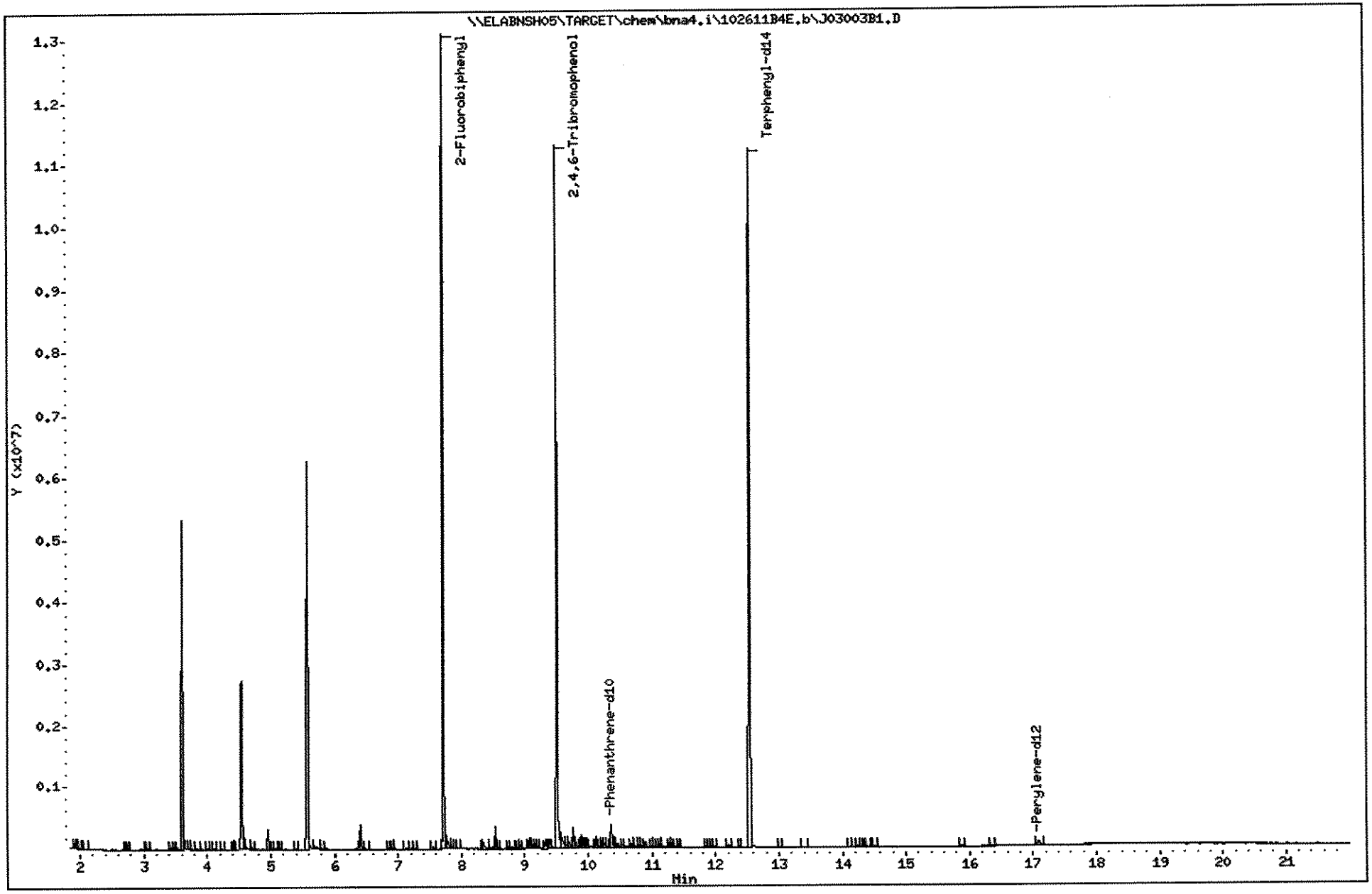
QC Flag Legend

a - Target compound detected but, quantitated amount
    Below Limit Of Quantitation(BLOQ).
A - Target compound detected but, quantitated amount
    exceeded maximum amount.

Data File: \\ELABNSH05\TARGET\chem\bna4.i\102611B4E.b\J03003B1.D
Date : 26-OCT-2011 22:13
Client ID: 1J03003-BLK2
Sample Info: 1J03003-BLK2;1;1000;1000;1;UG/L;03-OCT-2011
Volume Injected (uL): 1.0
Column phase: fused silica

Instrument: bna4.i

Operator: HEC
Column diameter: 0.25



Data File: \\ELABNSH05\TARGET\chem\bna4.i\102611B4E.b\J03003B1.D

Date : 26-OCT-2011 22:13

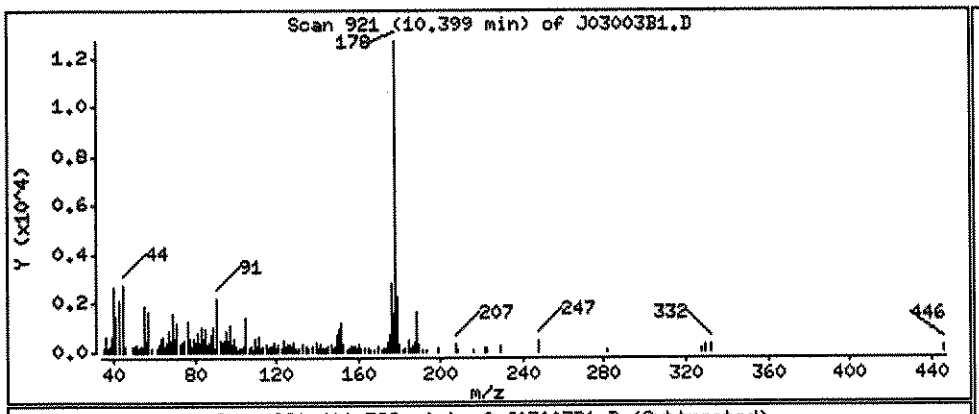
Client ID: 1J03003-BLK2 Instrument: bna4.i

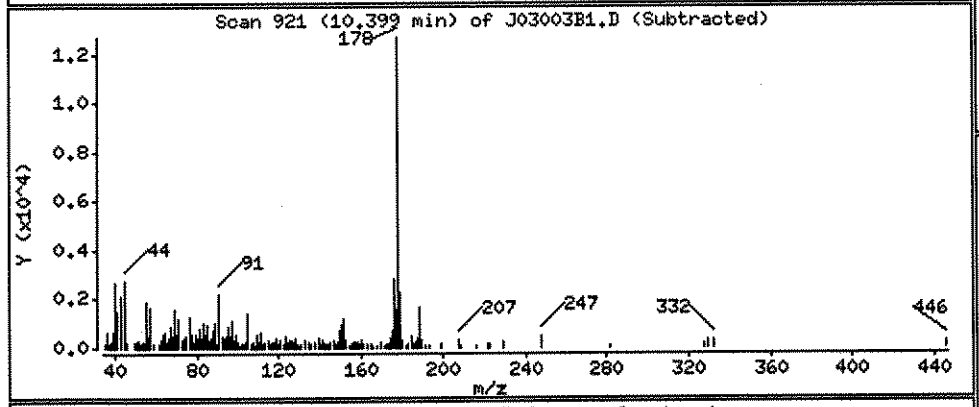
Sample Info: 1J03003-BLK2;1;1000;1000;1;UG/L;03-OCT-2011

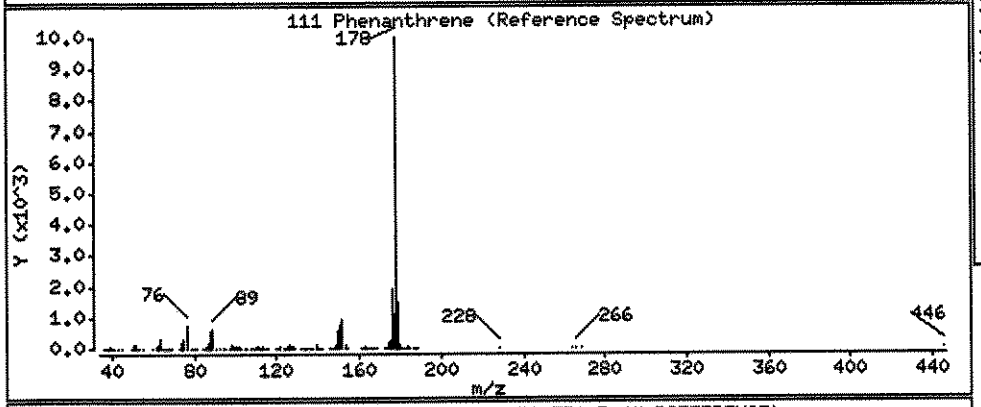
Volume Injected (uL): 1.0 Operator: MEC

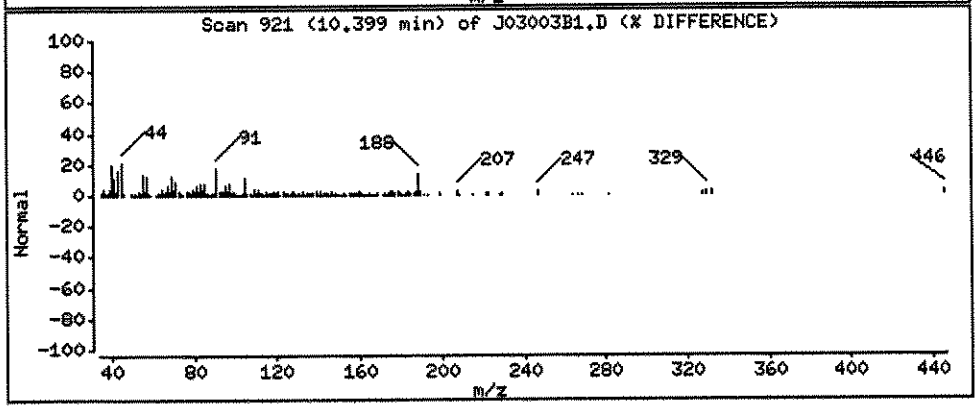
Column phase: fused silica Column diameter: 0.25

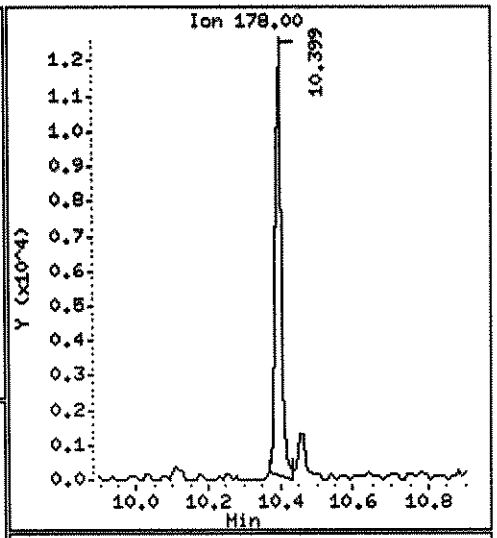
111 Phenanthrene Concentration: 0.08066 ug/L

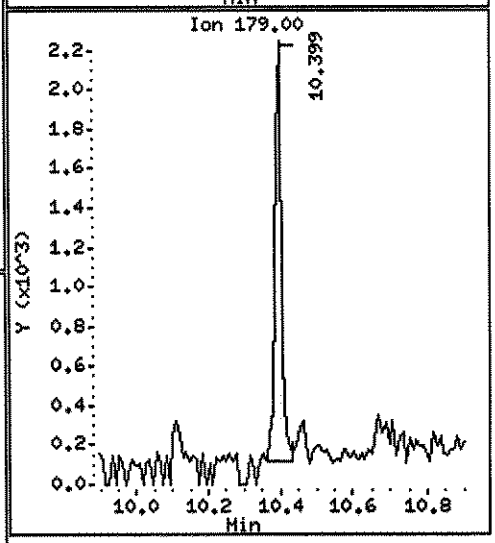












Data File: \\ELABNSH05\TARGET\chem\bna4.i\102611B4E.b\J03003B1.D

Date : 26-OCT-2011 22:13

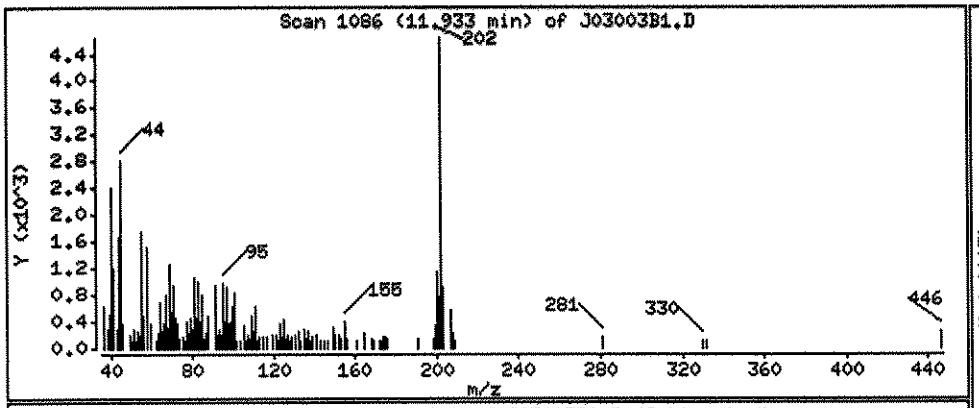
Client ID: 1J03003-BLK2 Instrument: bna4.i

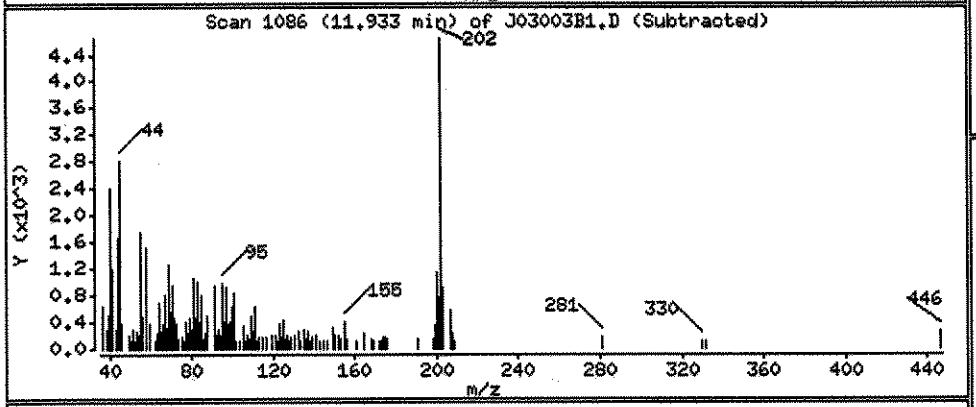
Sample Info: 1J03003-BLK2;1;1000;1000;1;UG/L;03-OCT-2011

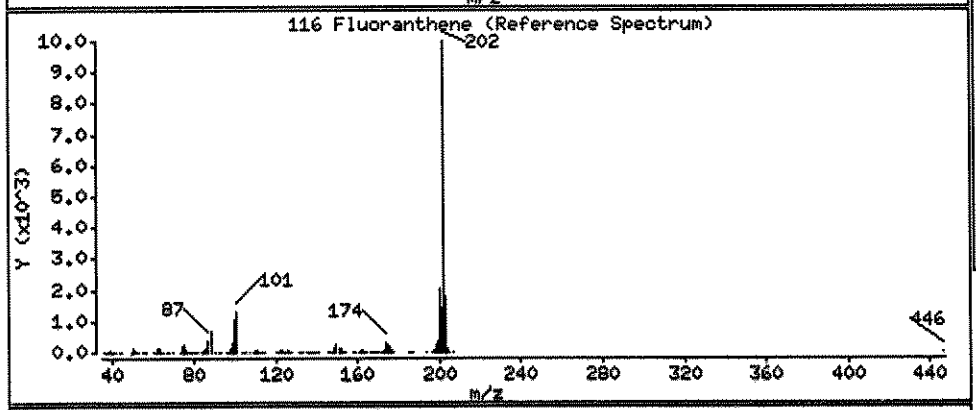
Volume Injected (uL): 1.0 Operator: MEC

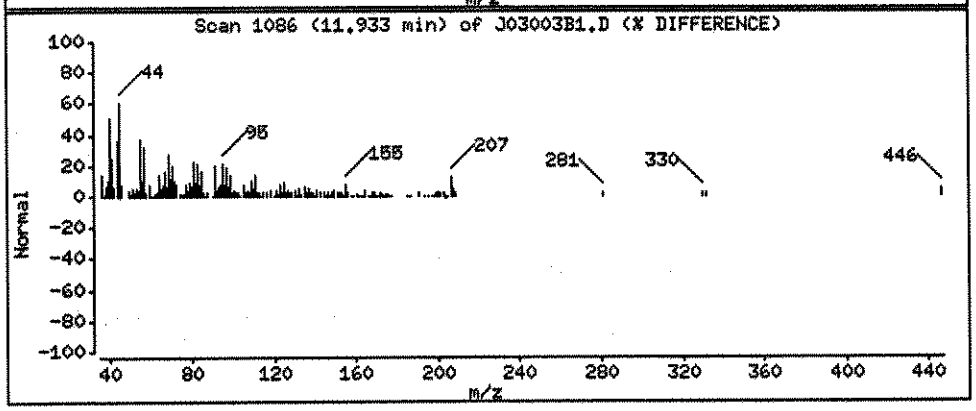
Column phase: fused silica Column diameter: 0.25

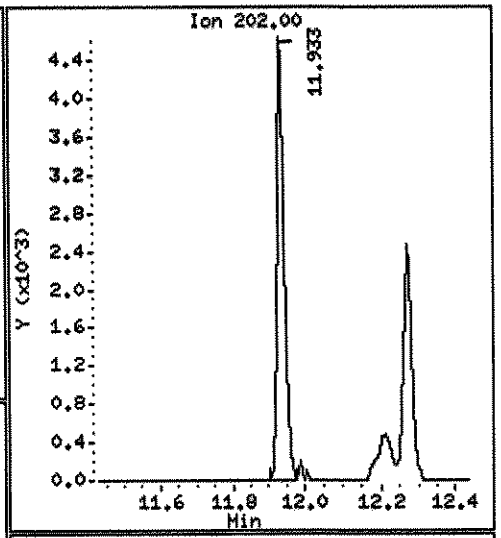
116 Fluoranthene Concentration: 0.03979 ug/L

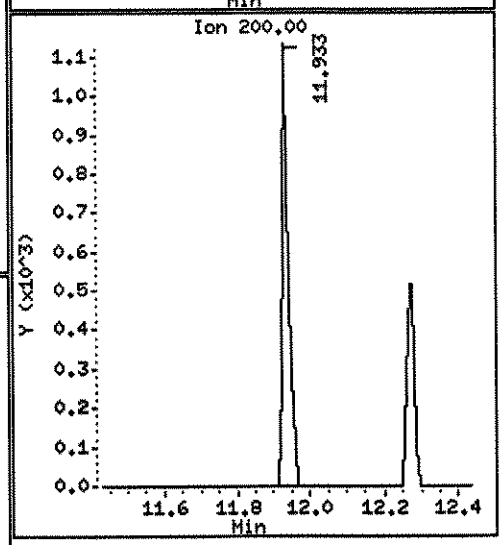












Data File: \\ELABNSH05\TARGET\chem\bna4.i\102611B4E.b\J03003B1.D

Date : 26-OCT-2011 22:13

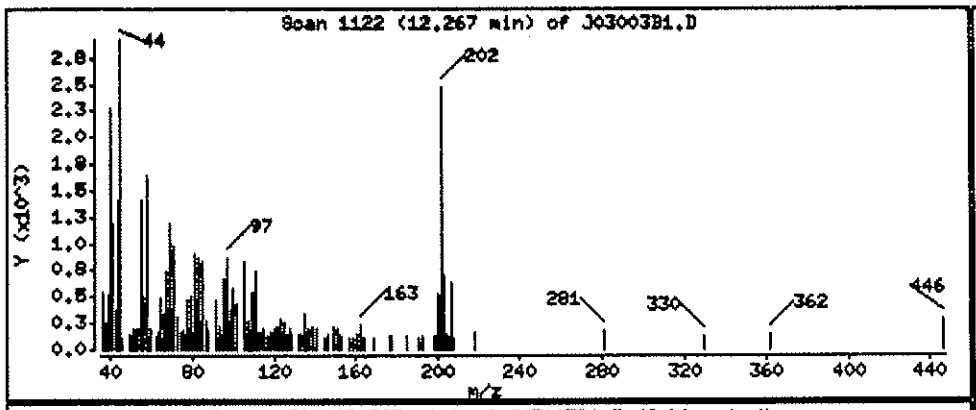
Client ID: 1J03003-BLK2 Instrument: bna4.i

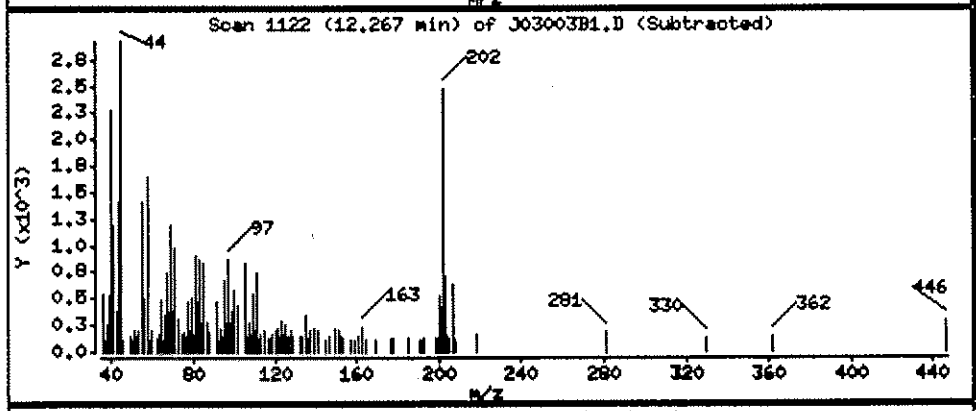
Sample Info: 1J03003-BLK2;1;1000;1000;1;UG/L;03-OCT-2011

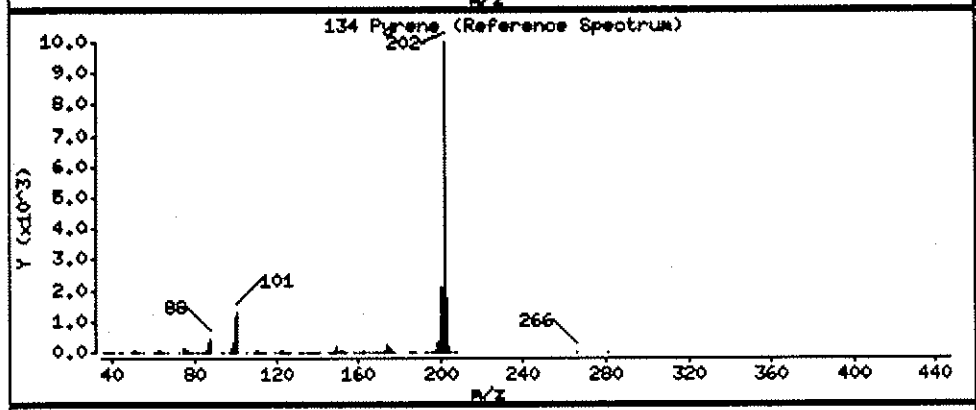
Volume Injected (uL): 1.0 Operator: HEC

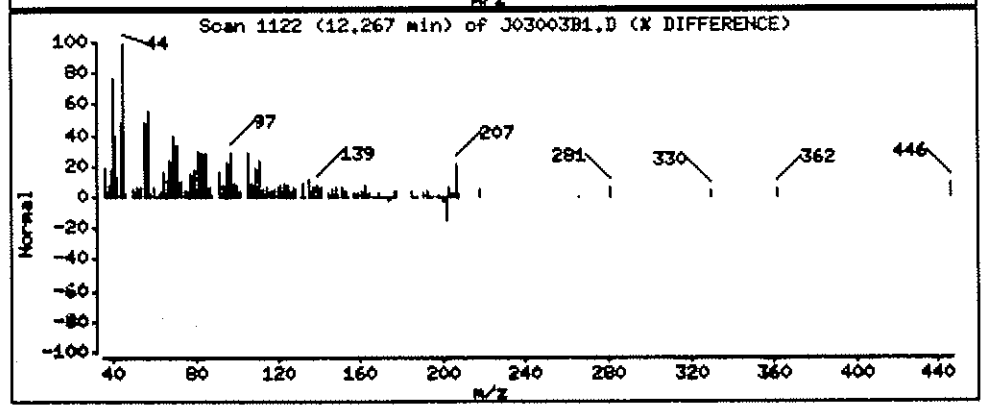
Column phase: fused silica Column diameter: 0.25

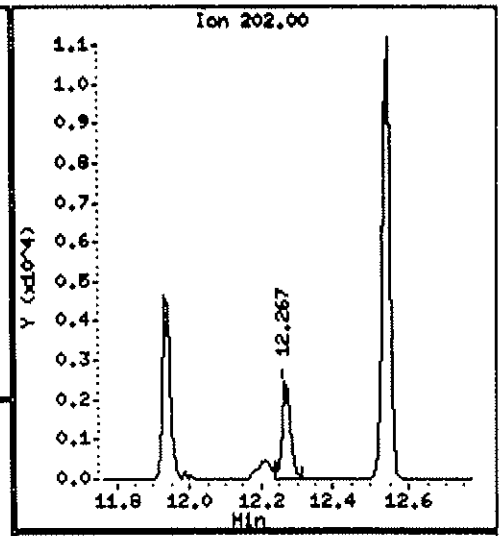
134 Pyrene Concentration: 0.02354 ug/L

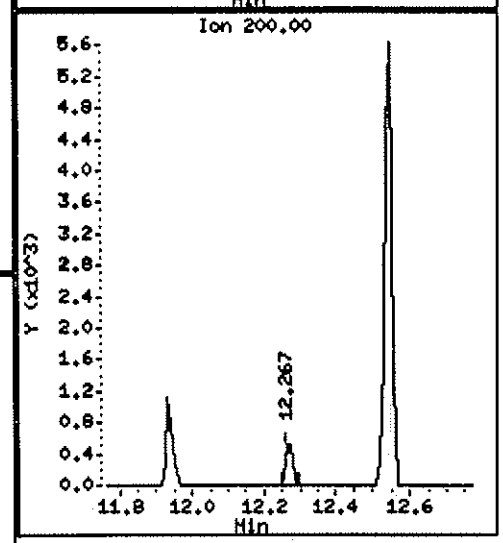












Data File: \\ELABNSHOB\TARGET\chem\bna4.i\102611B4E.b\J03003B1.D

Date : 26-OCT-2011 22:13

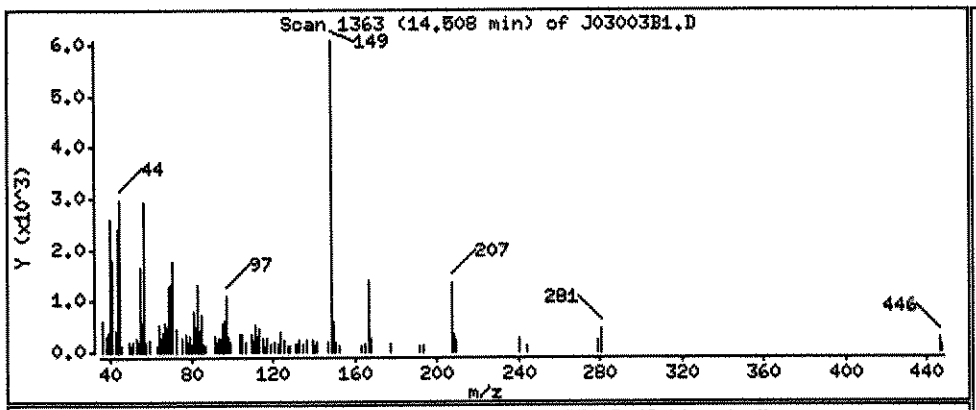
Client ID: 1J03003-BLK2 Instrument: bna4.i

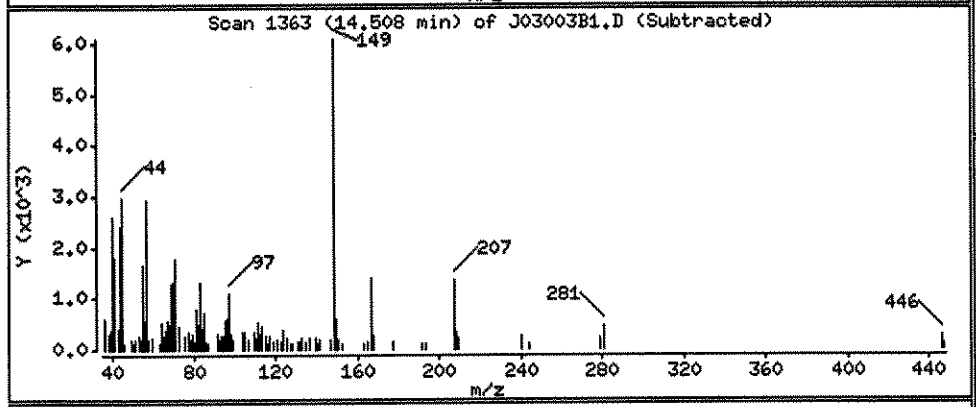
Sample Info: 1J03003-BLK2;1;1000;1000;1;UG/L;03-OCT-2011

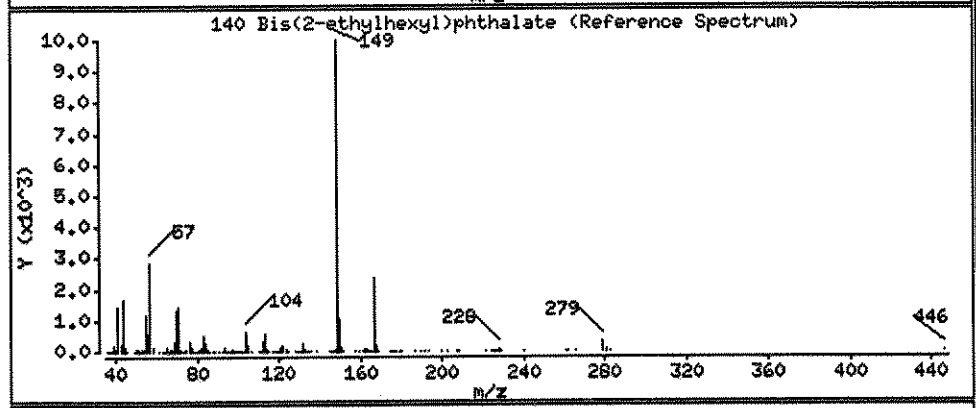
Volume Injected (uL): 1.0 Operator: MEC

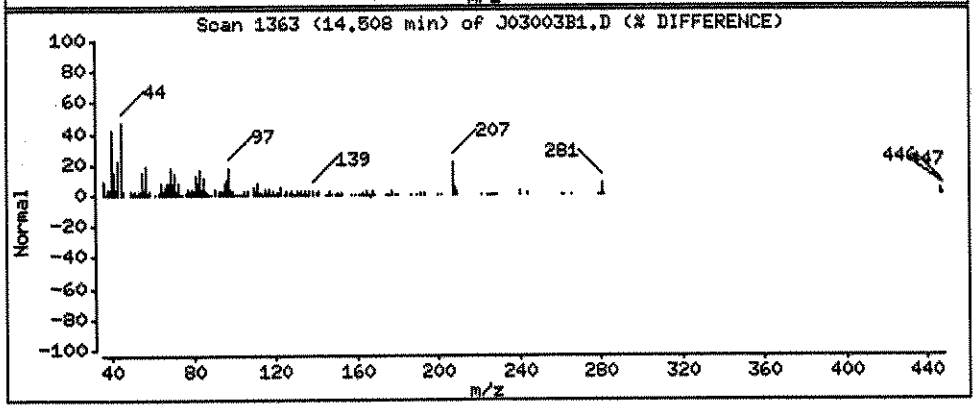
Column phase: fused silica Column diameter: 0.25

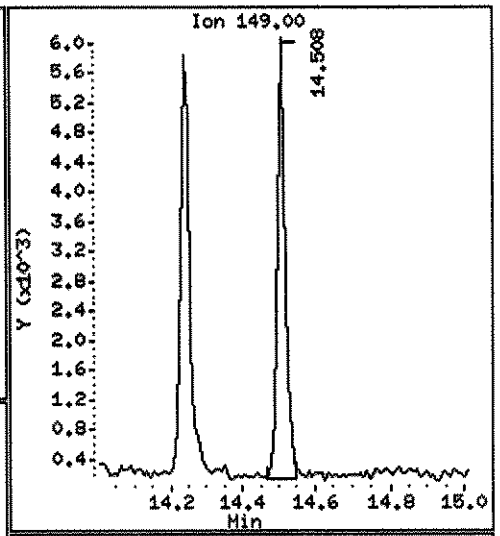
140 Bis(2-ethylhexyl)phthalate Concentration: 0.1058 ug/L

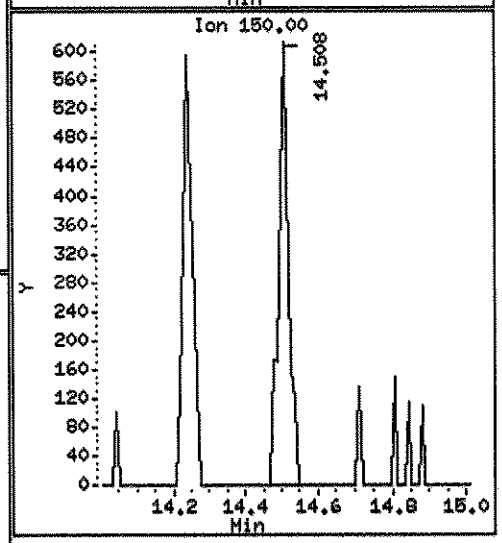












Data File: \\ELABNSH05\TARGET\chem\bna4.i\102611B4E.b\J03003B1.D

Date : 26-OCT-2011 22:13

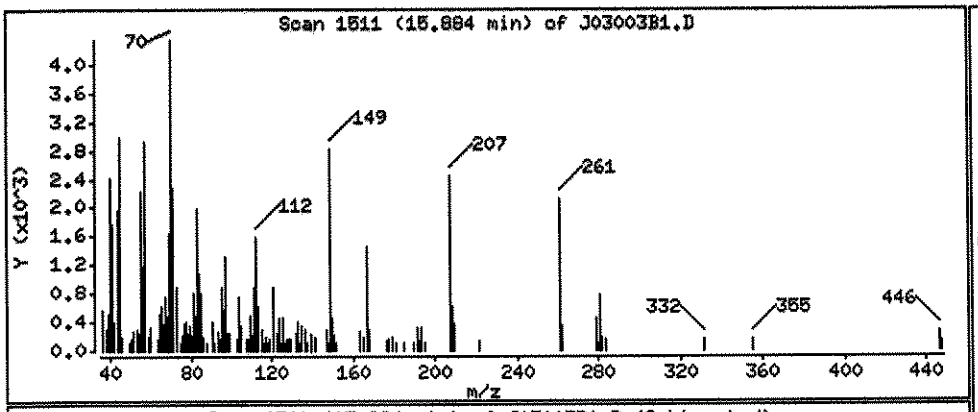
Client ID: 1J03003-BLK2 Instrument: bna4.i

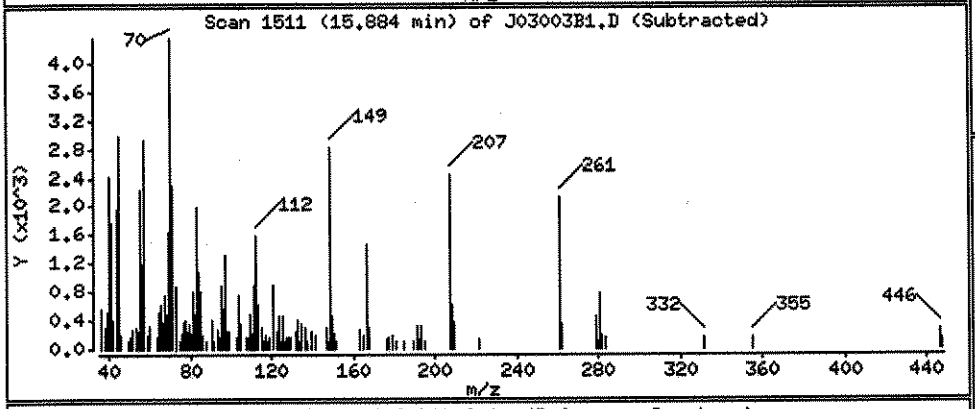
Sample Info: 1J03003-BLK2;1;1000;1000;1;UG/L;03-OCT-2011

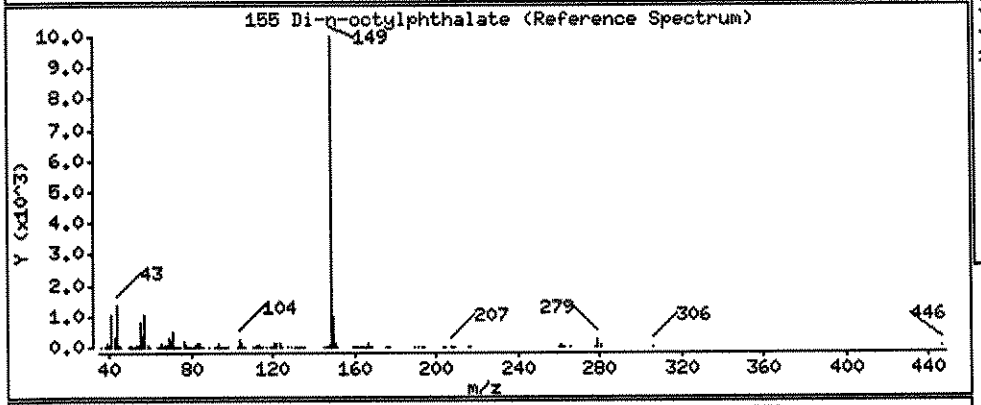
Volume Injected (uL): 1.0 Operator: MEC

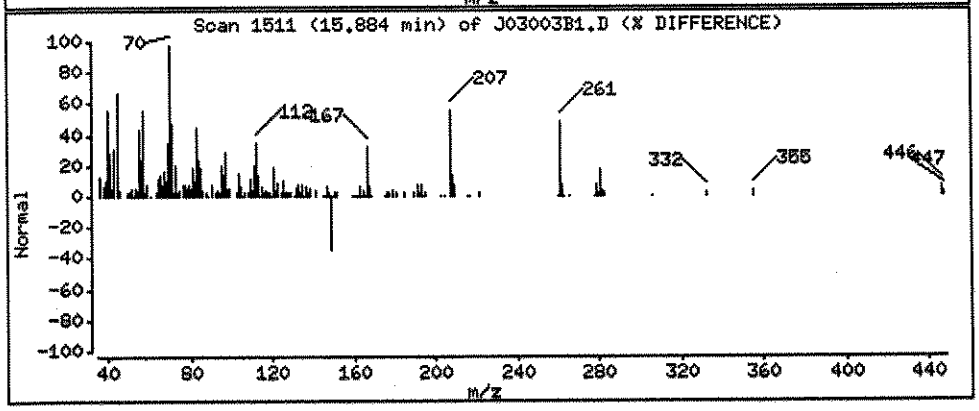
Column phase: fused silica Column diameter: 0.25

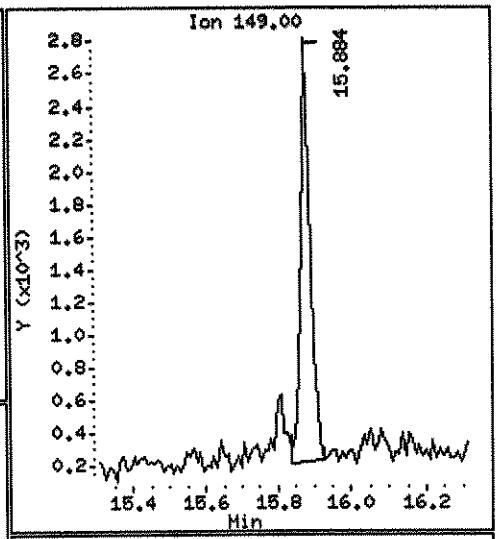
155 Di-n-octylphthalate Concentration: 0.04067 ug/L

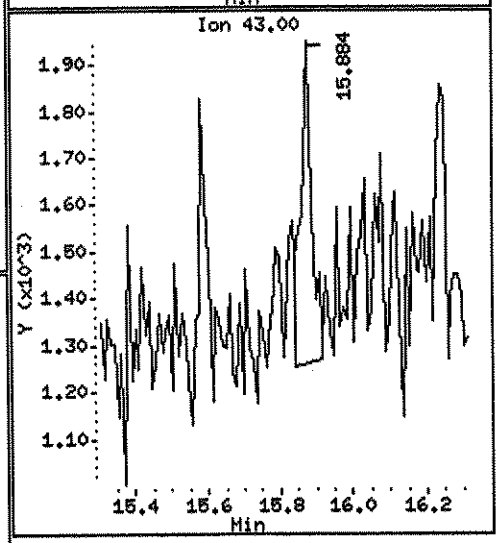












Data File: \\ELABNSH05\TARGET\chem\bna4.i\102611B4E.b\1000301.D
Report Date: 28-Oct-2011 10:40

11.1.11

Laboratory Name

Data file : \\ELABNSH05\TARGET\chem\bna4.i\102611B4E.b\1000301.D
Lab Smp Id: 1110003-01 Client Smp ID: FLC-4-MW01-092911
Inj Date : 26-OCT-2011 22:43 MS Autotune Date: 23-OCT-2011 10:06
Operator : MEC Inst ID: bna4.i
Smp Info : 1110003-01;1;1000;1000;1;UG/L;03-OCT-2011
Misc Info : ;0;;;;1J03003;pahmisc.sub;
Comment :
Method : \\ELABNSH05\TARGET\chem\bna4.i\102611B4E.b\IXBN4LOW.m
Meth Date : 28-Oct-2011 10:39 mcobb Quant Type: ISTD
Cal Date : 24-AUG-2011 18:33 Cal File: SEQ-CAL9.D
Als bottle: 25
Dil Factor: 1.00000
Integrator: HP RTE Compound Sublist: pahmisc.sub
Target Version: 4.04
Processing Host: TARGET09_VM

Concentration Formula: Amt * DF * Uf * Vt* Vi/(Amt * Vi)

Name	Value	Description
DF	1.000	Dilution Factor
Uf	1.000	ng unit correction factor
Vt	1000.000	Volume of final extract (uL)
Vi	1.000	Volume injected (uL)
Amt	1000.000	Volume of initial extraction

Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS ON-COLUMN (ng/ul)	FINAL (UG/L)
* 102 Phenanthrene-d10	188	10.361	10.361	(1.000)	136308	1.00000	
$ 74 2-Fluorobiphenyl	172	7.721	7.712	(0.745)	4285541	33.2729	33.27
84 Dibenzofuran	168	8.790	8.790	(0.848)	3025	0.02072	0.02072(a)
88 Fluorene	166	9.208	9.208	(0.889)	2405	0.02083	0.02083(a)
$ 107 2,4,6-Tribromophenol	330	9.515	9.506	(0.918)	1801262	76.3301	76.33
111 Phenanthrene	178	10.398	10.398	(1.004)	12009	0.07571	0.07571
116 Fluoranthene	202	11.932	11.932	(1.152)	6180	0.04137	0.04137(a)
134 Pyrene	202	12.267	12.267	(1.184)	3844	0.02535	0.02535(a)
* 154 Perylene-d12	264	17.082	17.082	(1.000)	44842	1.00000	
$ 135 Terphenyl-d14	244	12.537	12.537	(1.210)	3584380	41.4606	41.46
140 Bis(2-ethylhexyl)phthalate	149	14.507	14.507	(0.849)	10523	0.14212	0.1421
155 Di-n-octylphthalate	149	15.883	15.809	(0.930)	3845	0.03756	0.03756(a)
156 Benzo(b)fluoranthene	252	16.385	16.376	(0.959)	1328	0.02218	0.02218(aM)

MEC
10/28/11

Data File: \\ELABNSH05\TARGET\chem\bna4.i\102611B4E.b\1000301.D
Report Date: 28-Oct-2011 10:40

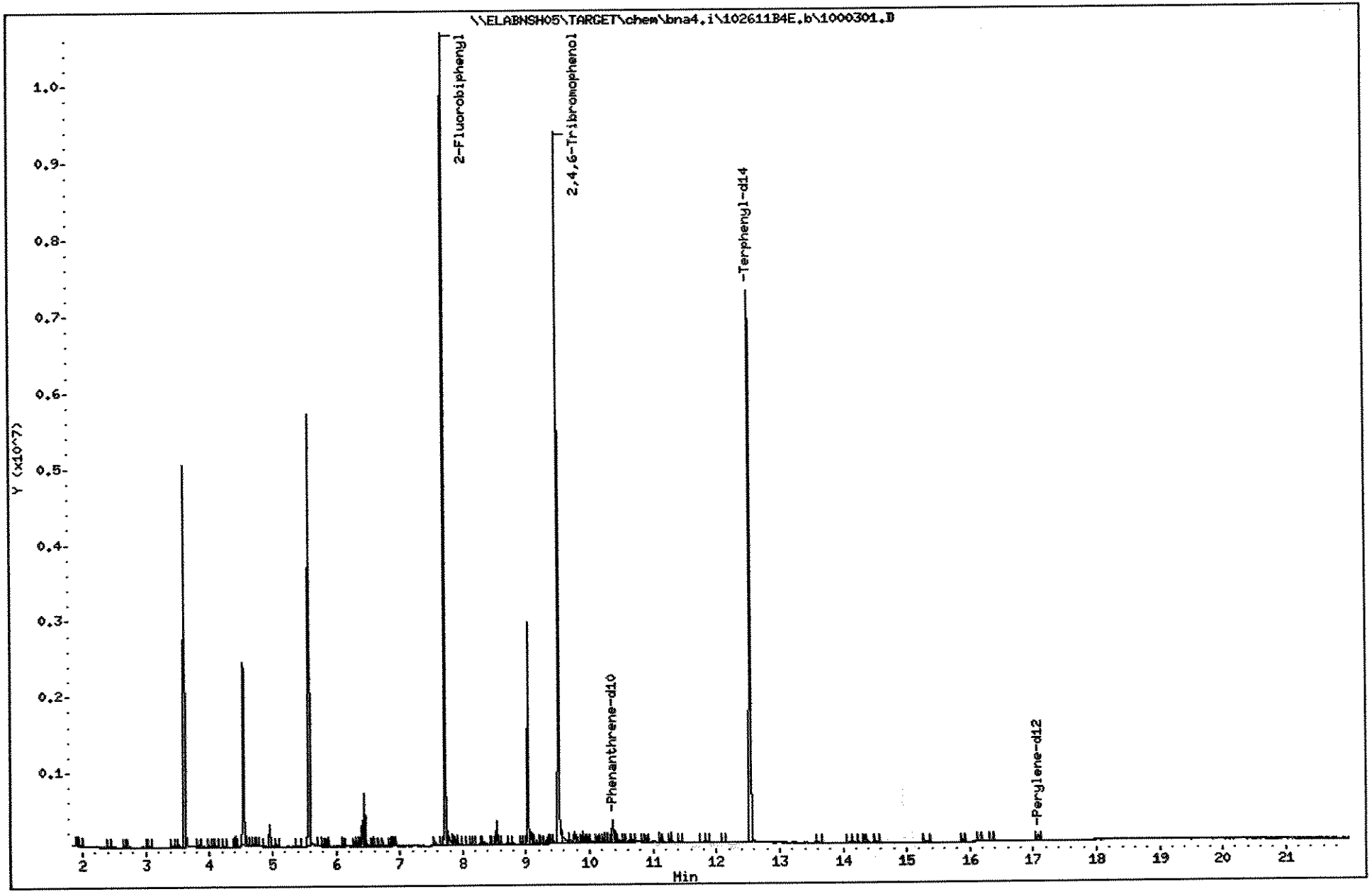
QC Flag Legend

a - Target compound detected but, quantitated amount
    Below Limit Of Quantitation(BLOQ).
M - Compound response manually integrated.

Data File: \\ELABNSH05\TARGET\chem\bna4.i\102611B4E.b\1000301.D
Date : 26-OCT-2011 22:43
Client ID: FLC-4-MW01-092911
Sample Info: 1110003-01;1;1000;1000;1;UG/L;03-OCT-2011
Volume Injected (uL): 1.0
Column phase: fused silica

Instrument: bna4.i

Operator: HEC
Column diameter: 0.25



704

1110003

Data File: \\ELABNSH05\TARGET\chem\bna4.i\102611B4E.b\1000301.D

Date : 26-OCT-2011 22:43

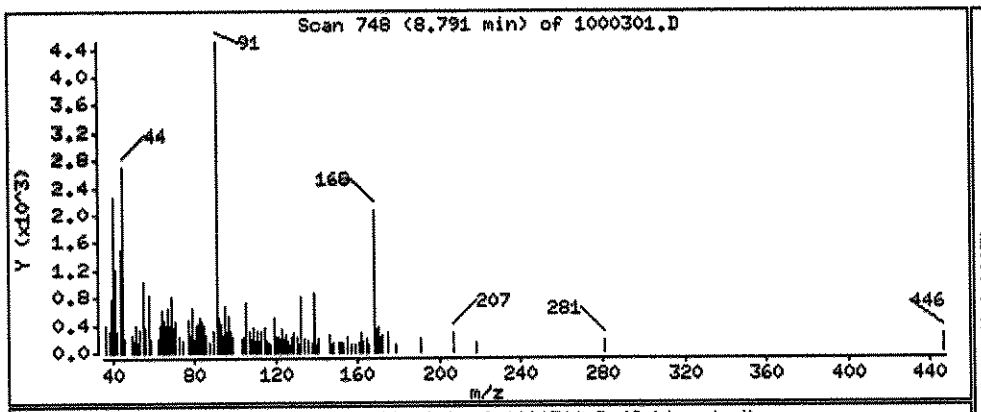
Client ID: FLC-4-MW01-092911 Instrument: bna4.i

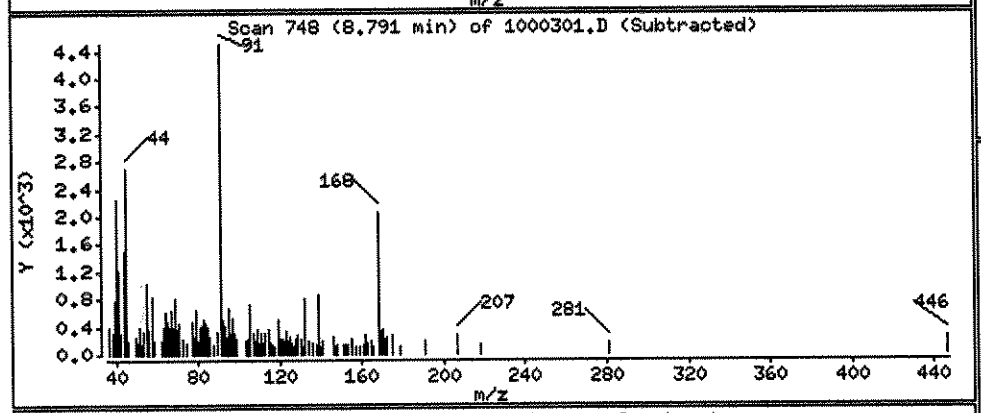
Sample Info: 1110003-01;1;1000;1000;1;UG/L;03-OCT-2011

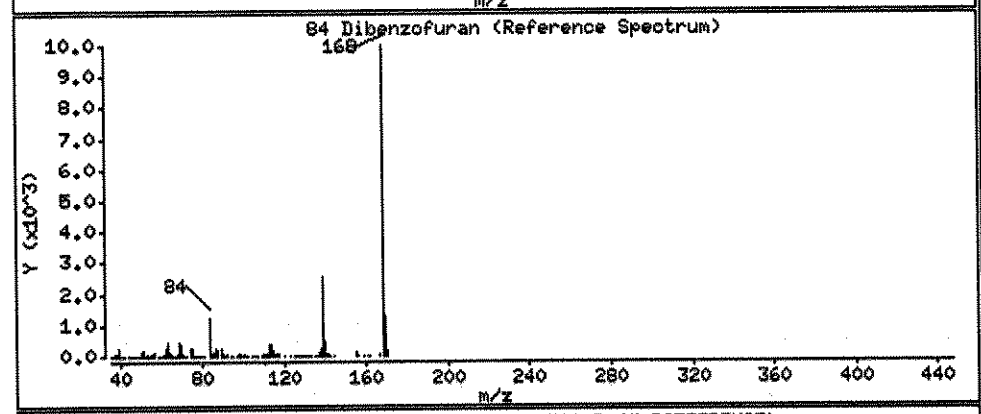
Volume Injected (uL): 1.0 Operator: MEC

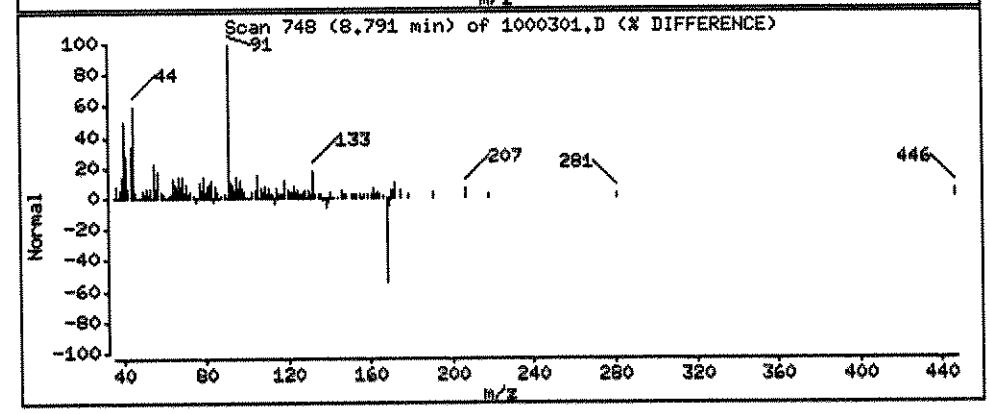
Column phase: fused silica Column diameter: 0.25

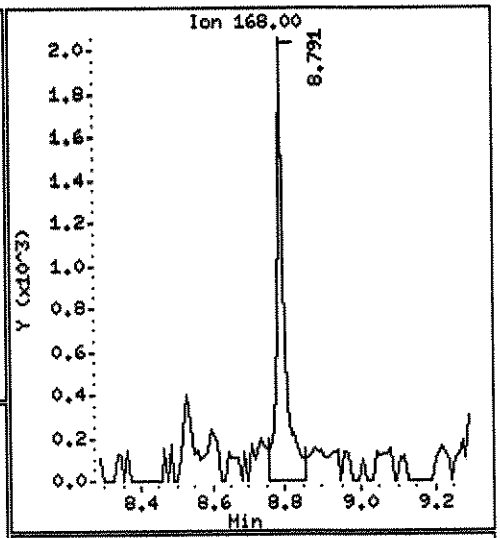
84 Dibenzofuran Concentration: 0.02072 UG/L

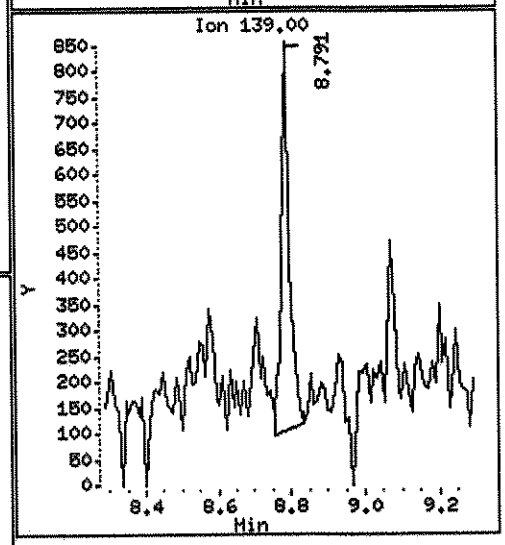












Data File: \\ELABNSHO5\TARGET\chem\bna4.i\102611B4E.b\1000301.D

Date : 26-OCT-2011 22:43

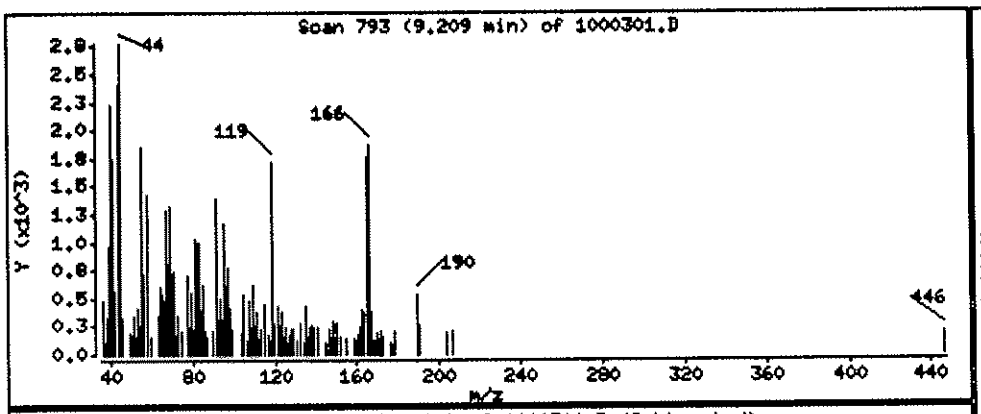
Client ID: FLC-4-HW01-092911 Instrument: bna4.i

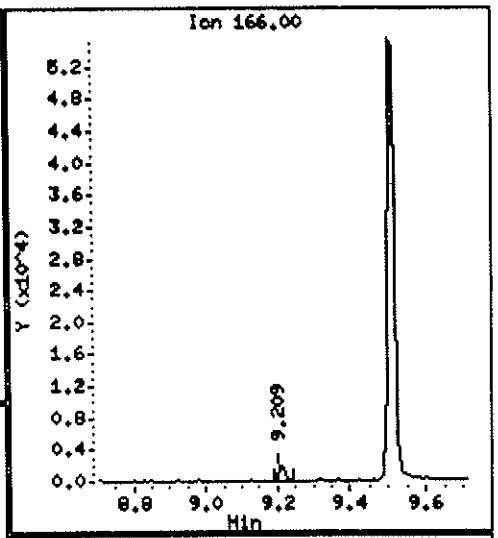
Sample Info: 1110003-01;1;1000;1000;1;UG/L;03-OCT-2011

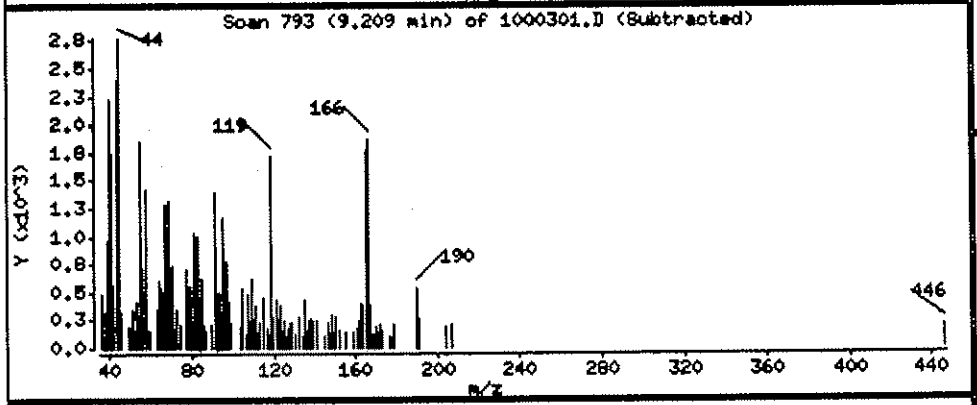
Volume Injected (uL): 1.0 Operator: HEC

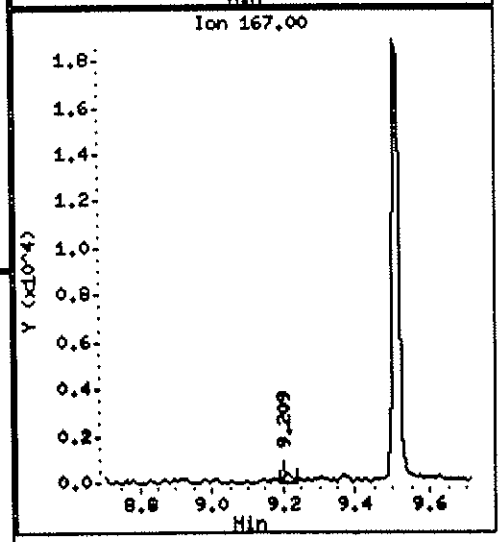
Column phase: fused silica Column diameter: 0.25

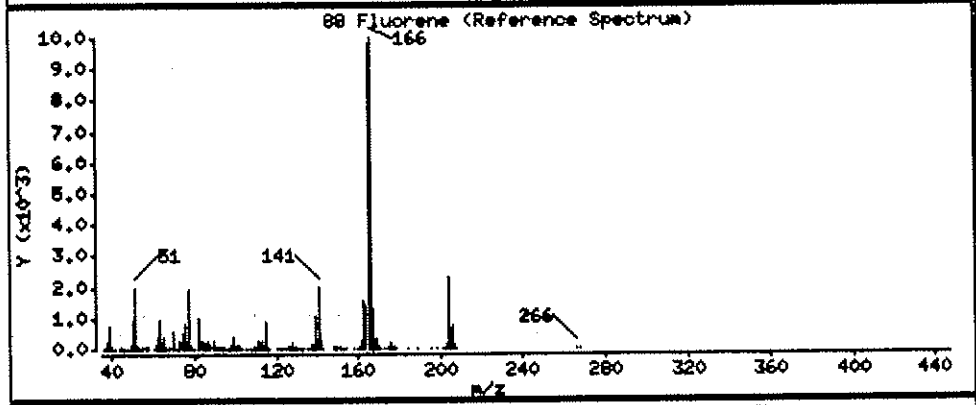
88 Fluorene Concentration: 0.02083 UG/L

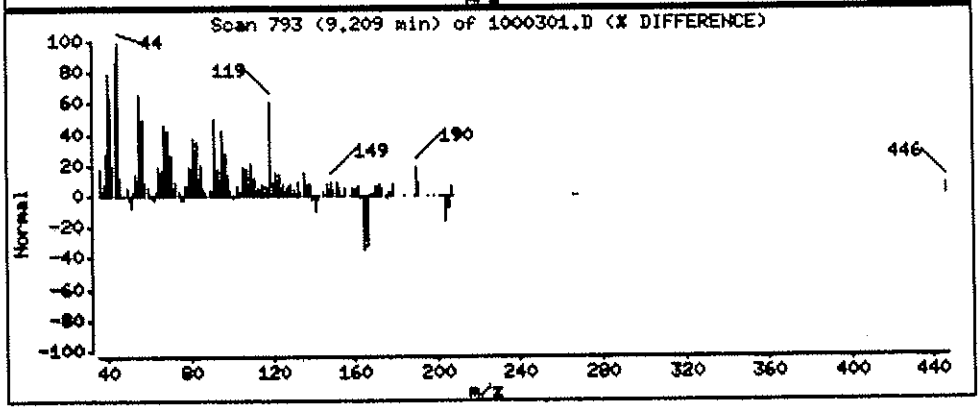












Data File: \\ELABNSH05\TARGET\chem\bna4.i\102611B4E.b\1000301.D

Date : 26-OCT-2011 22:43

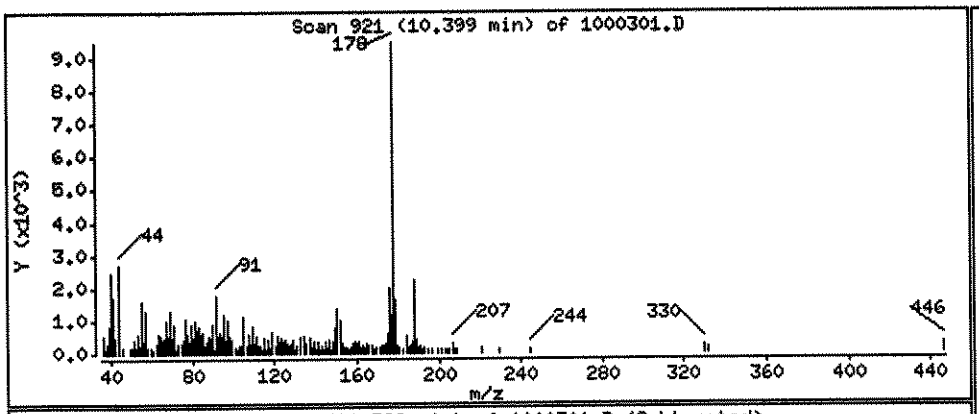
Client ID: FLC-4-MW01-092911 Instrument: bna4.i

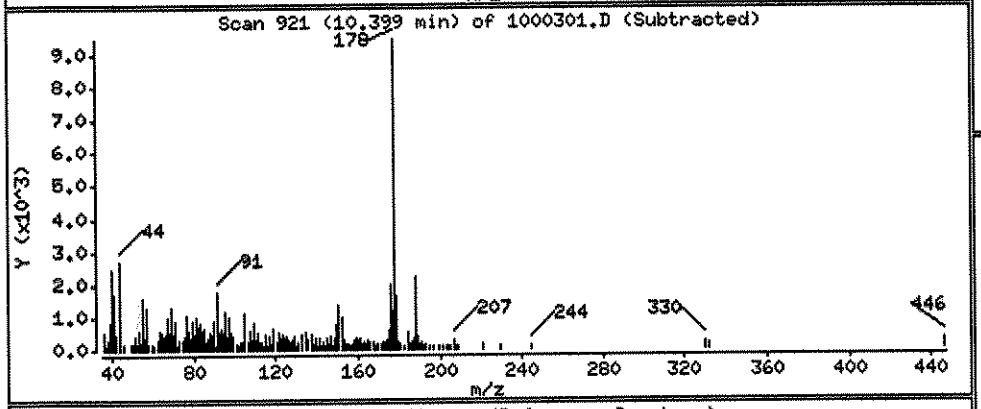
Sample Info: 1110003-01;1;1000;1000;1;UG/L;03-OCT-2011

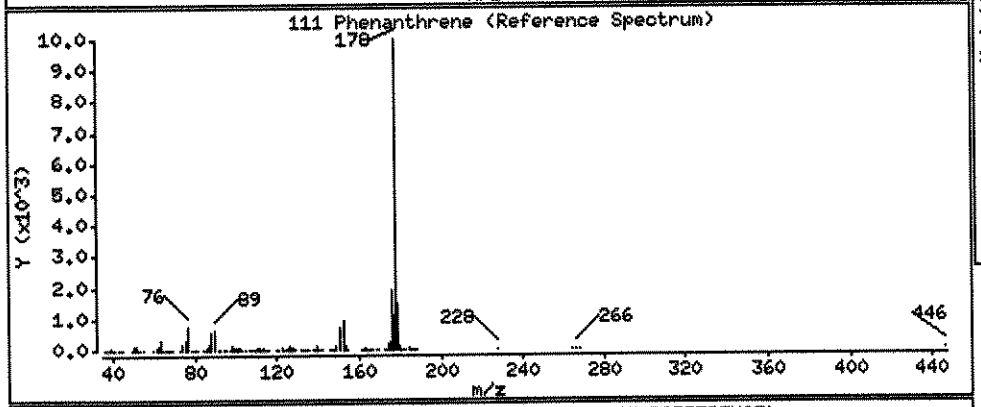
Volume Injected (uL): 1.0 Operator: MEC

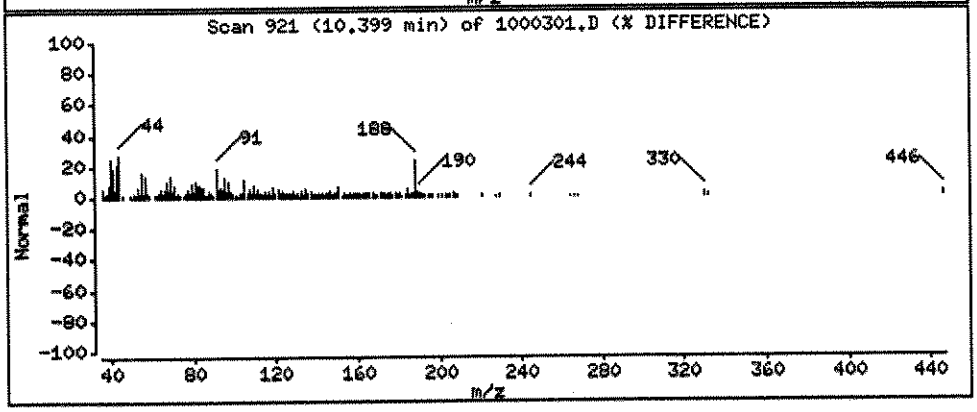
Column phase: fused silica Column diameter: 0.25

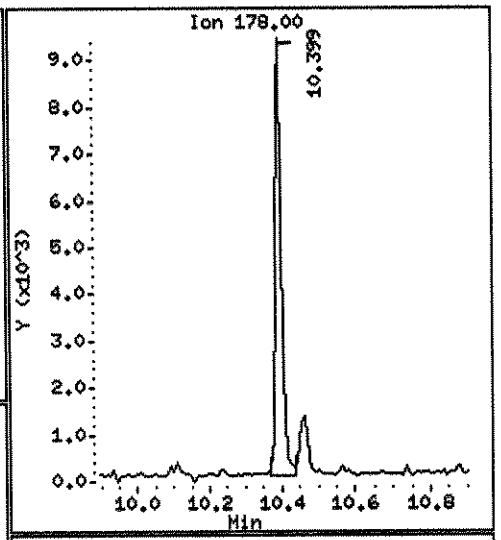
111 Phenanthrene Concentration: 0.07571 UG/L

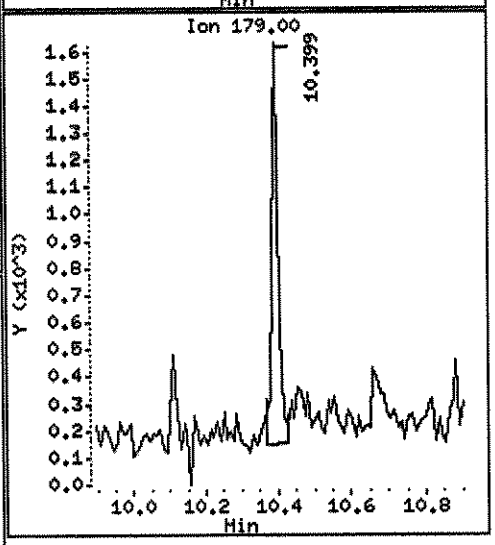












Data File: \\ELABNSH05\TARGET\chem\bna4.i\102611B4E.b\1000301.D

Date : 26-OCT-2011 22:43

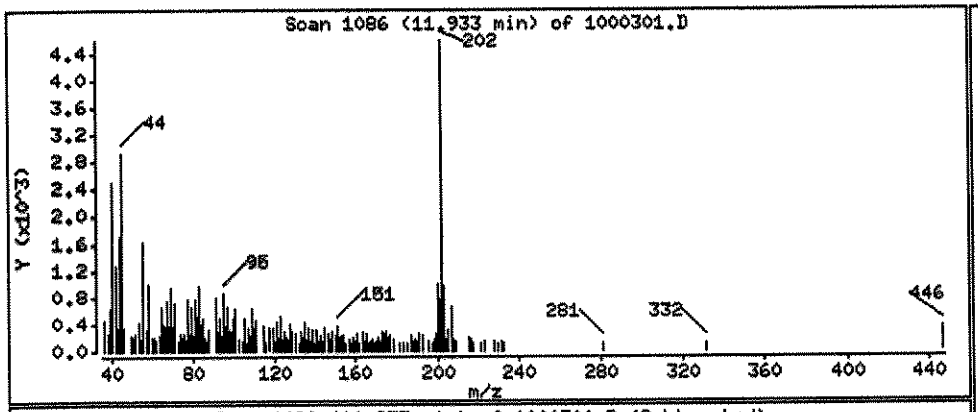
Client ID: FLC-4-MW01-092911 Instrument: bna4.i

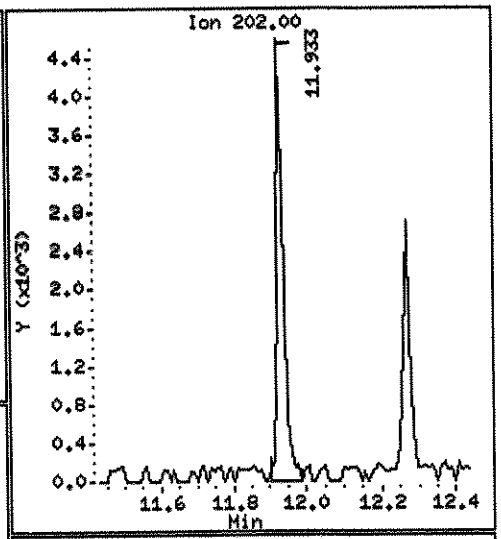
Sample Info: 1110003-01;1;1000;1000;1;UG/L;03-OCT-2011

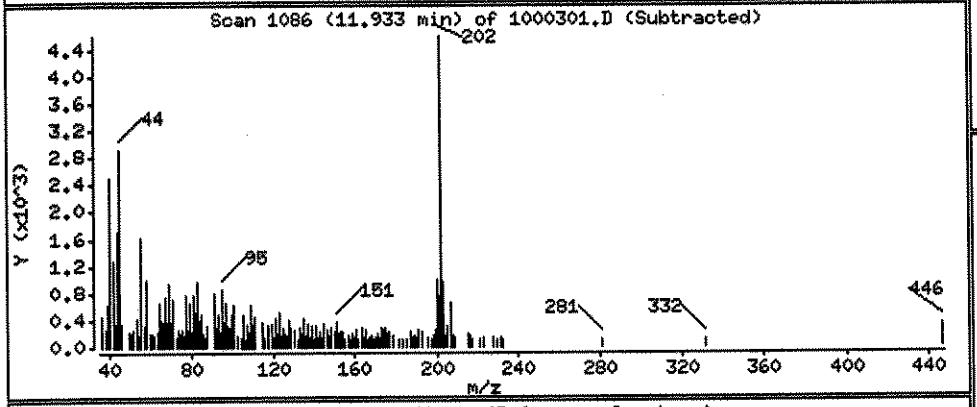
Volume Injected (uL): 1.0 Operator: MEC

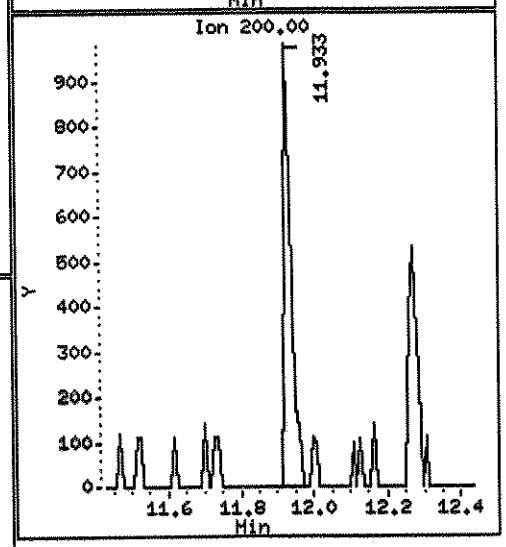
Column phase: fused silica Column diameter: 0.25

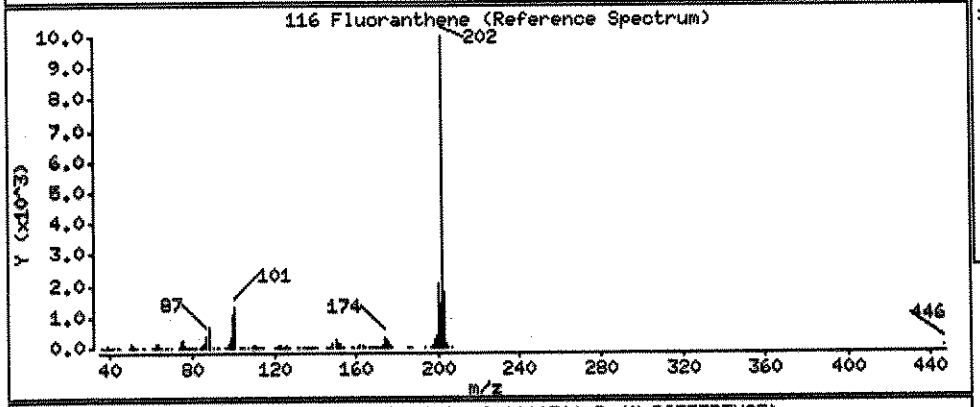
116 Fluoranthene Concentration: 0.04137 UG/L

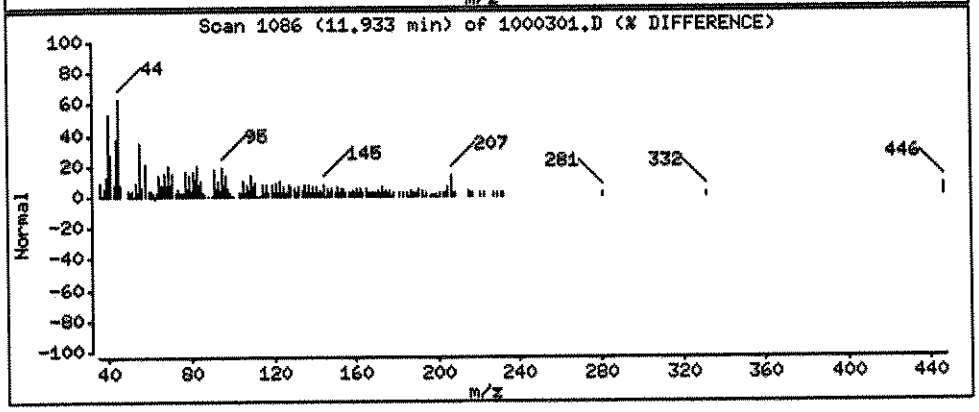












Data File: \\ELABNSH05\TARGET\chem\bna4.i\102611B4E.b\1000301.D

Date : 26-OCT-2011 22:43

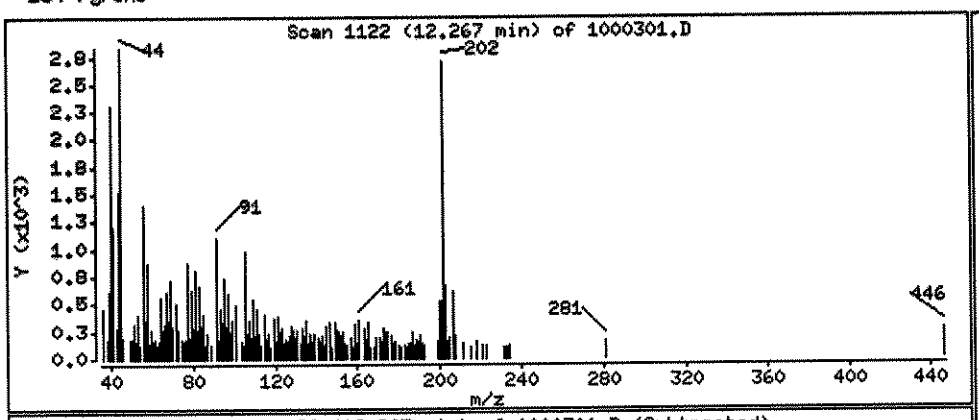
Client ID: FLC-4-MW01-092911 Instrument: bna4.i

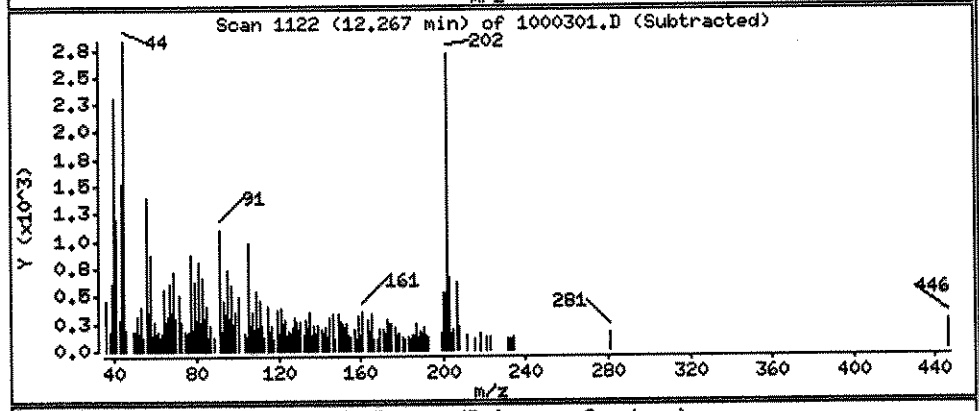
Sample Info: 1110003-01;1;1000;1000;1;UG/L;03-OCT-2011

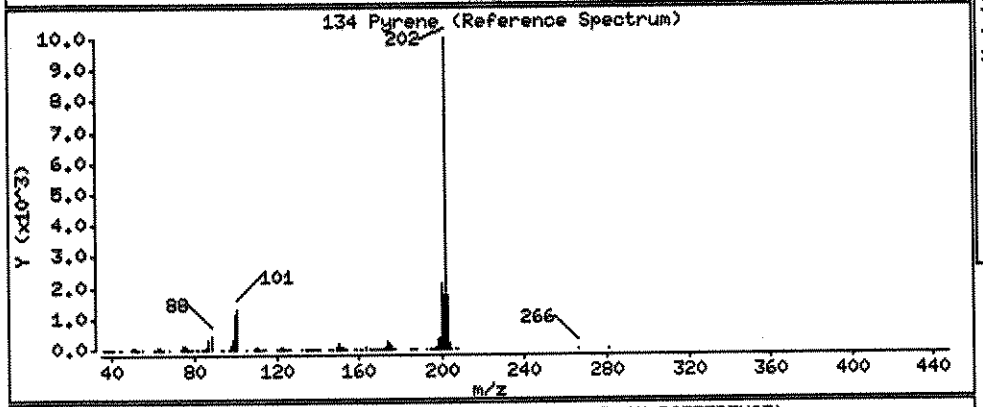
Volume Injected (uL): 1.0 Operator: MEC

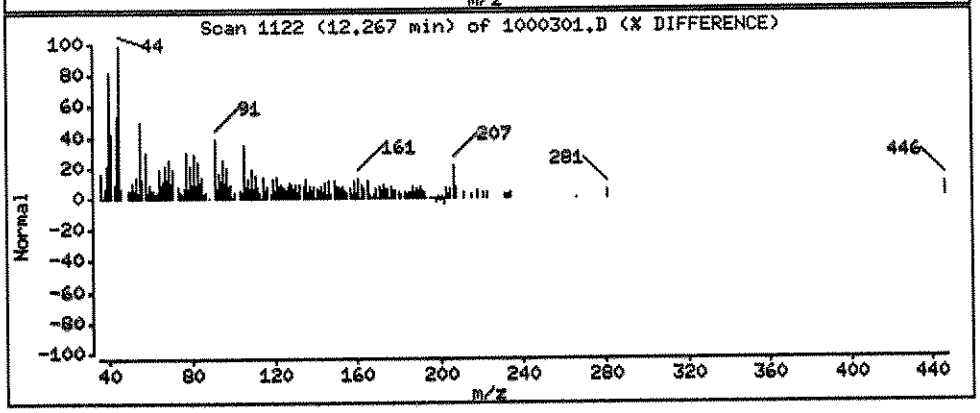
Column phase: fused silica Column diameter: 0.25

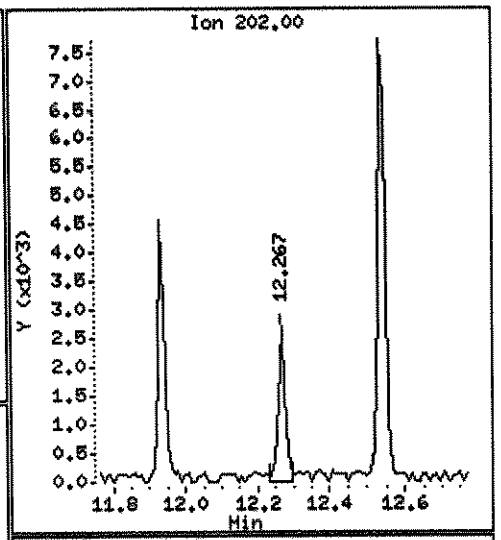
134 Pyrene Concentration: 0.02535 UG/L

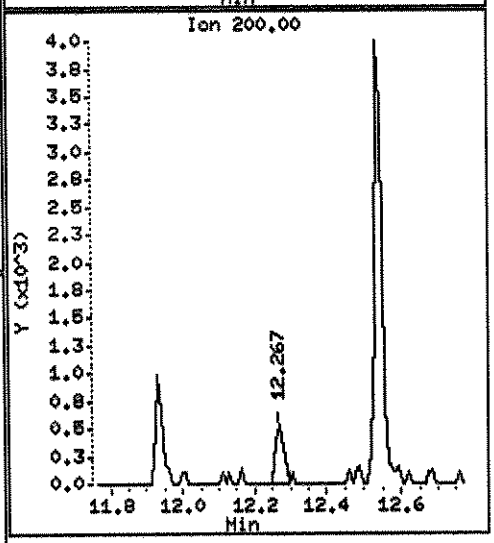












Data File: \\ELABNSH05\TARGET\chem\bna4.i\102611B4E.b\1000301.D

Date : 26-OCT-2011 22:43

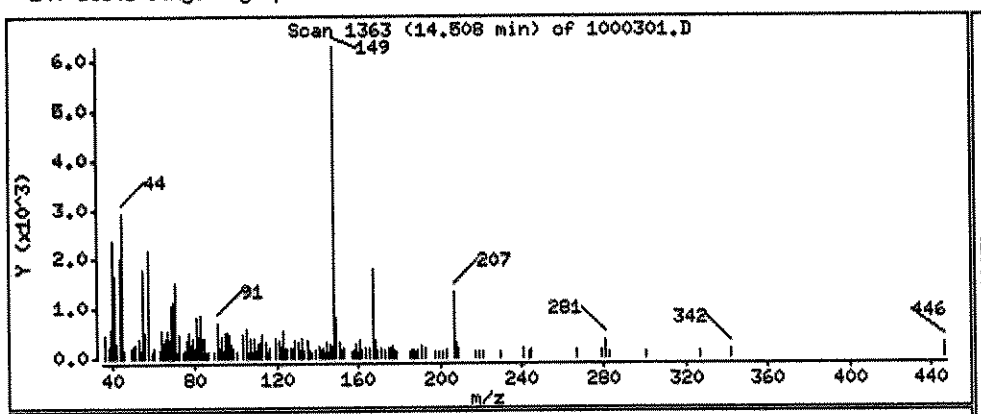
Client ID: FLC-4-HW01-092911 Instrument: bna4.i

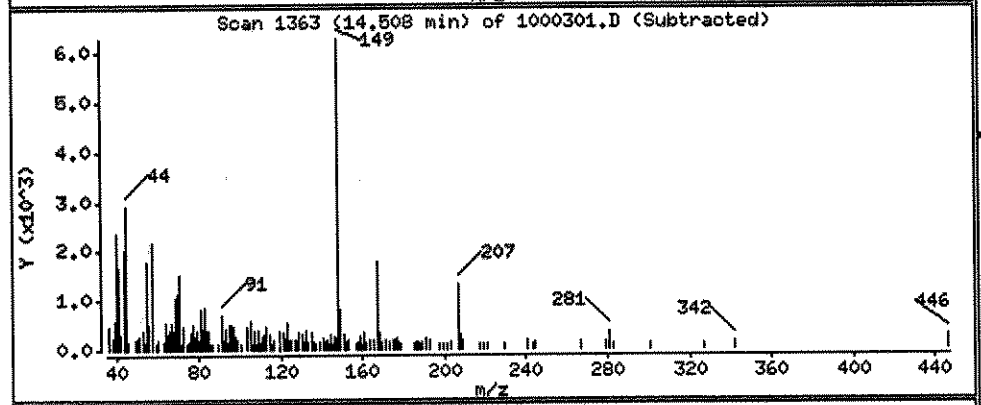
Sample Info: 1110003-01;1;1000;1000;1;UG/L;03-OCT-2011

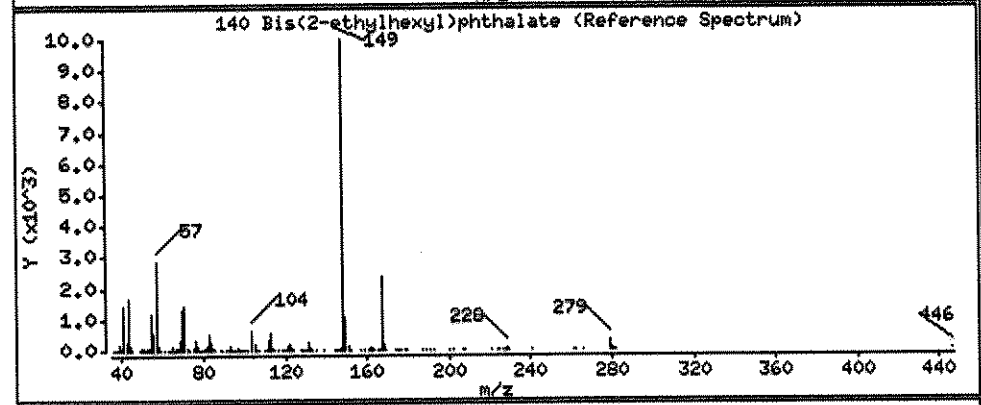
Volume Injected (uL): 1.0 Operator: HEC

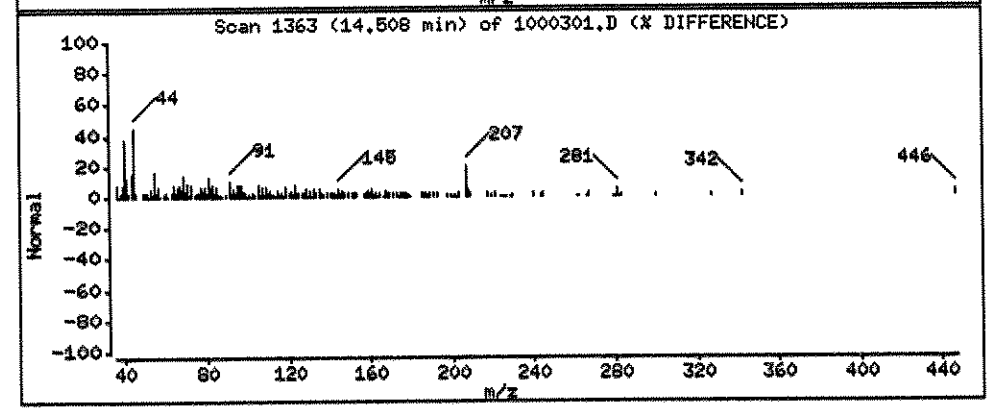
Column phase: fused silica Column diameter: 0.25

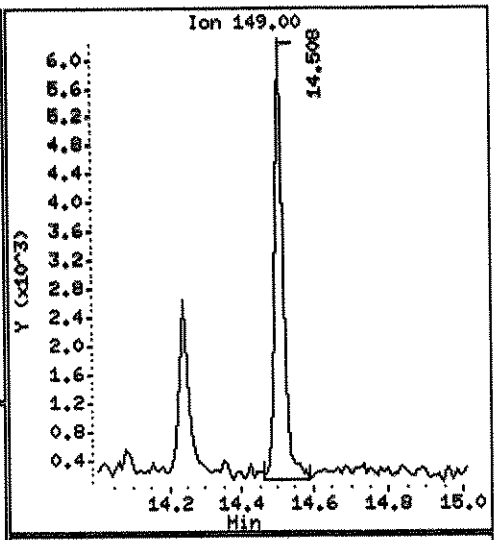
140 Bis(2-ethylhexyl)phthalate Concentration: 0.1421 UG/L

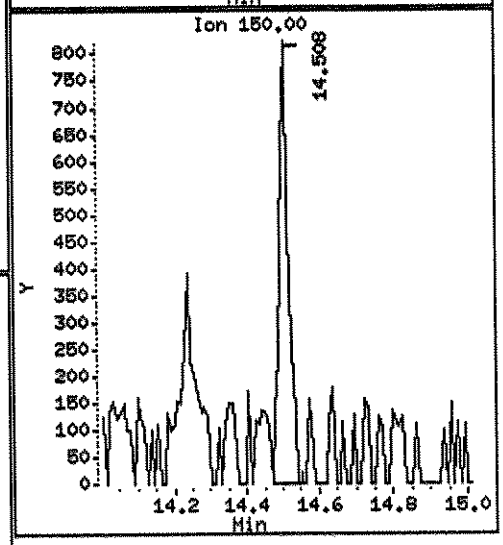












Data File: \\ELAINSHOS\TARGET\chem\bna4.i\102611B4E.b\1000301.D

Date : 26-OCT-2011 22:43

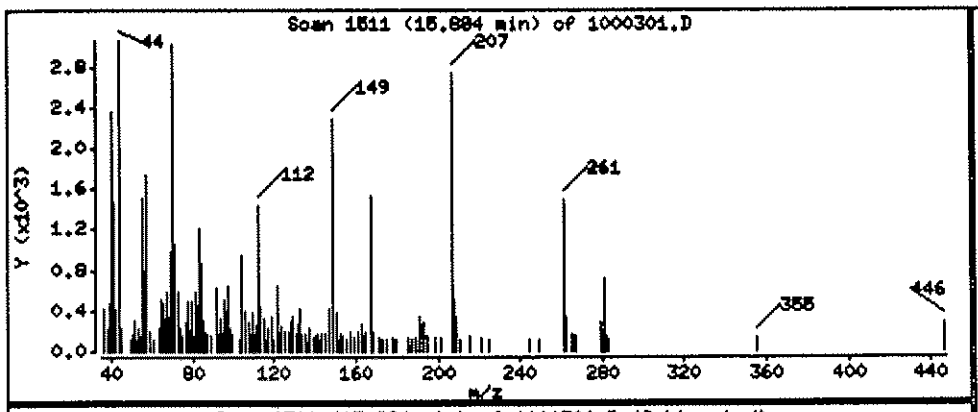
Client ID: FLC-4-HW01-092911 Instrument: bna4.i

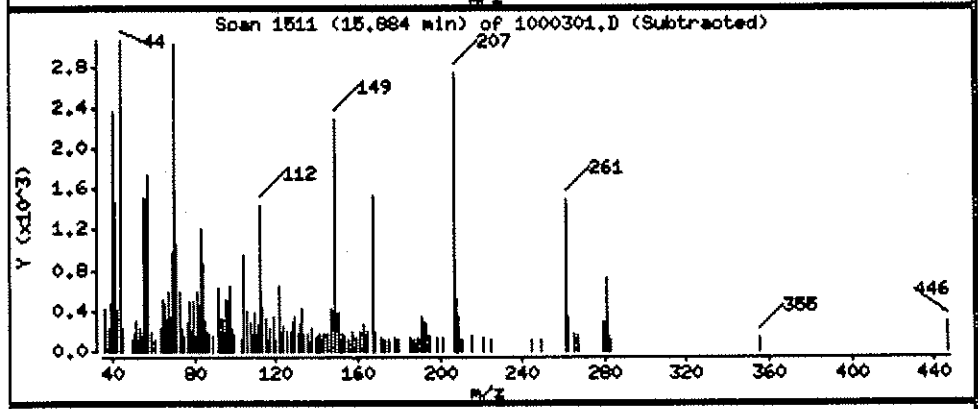
Sample Info: 1110003-01;1;1000;1000;1;UG/L;03-OCT-2011

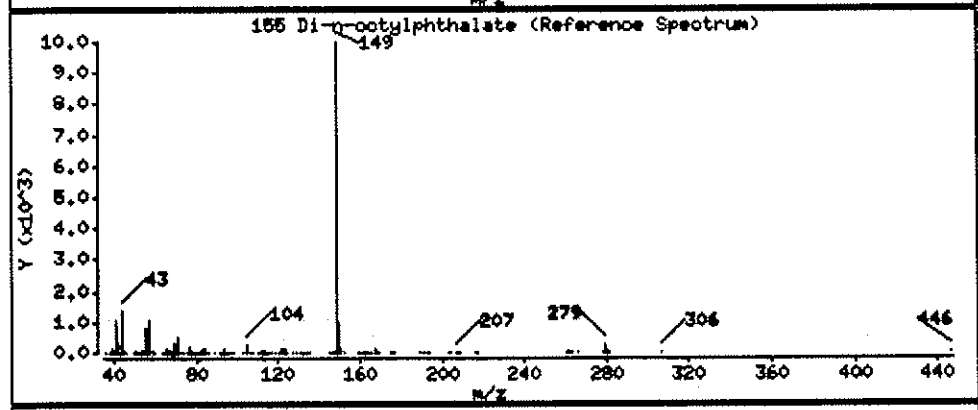
Volume Injected (uL): 1.0 Operator: HEC

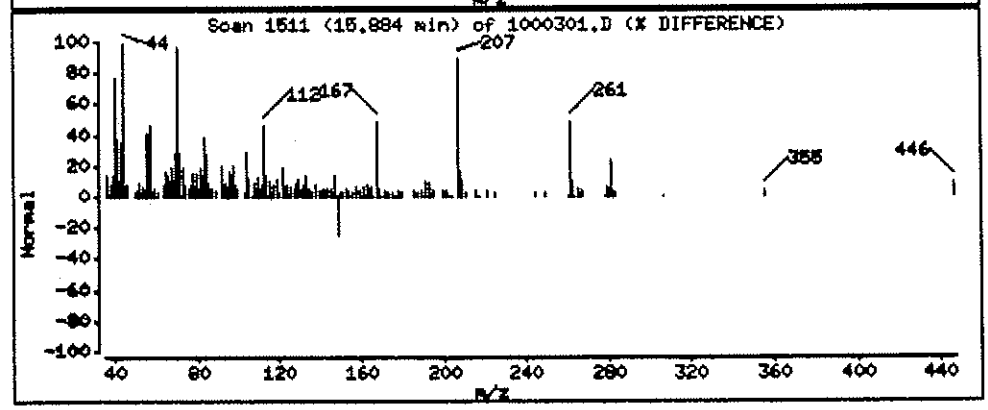
Column phase: fused silica Column diameter: 0.25

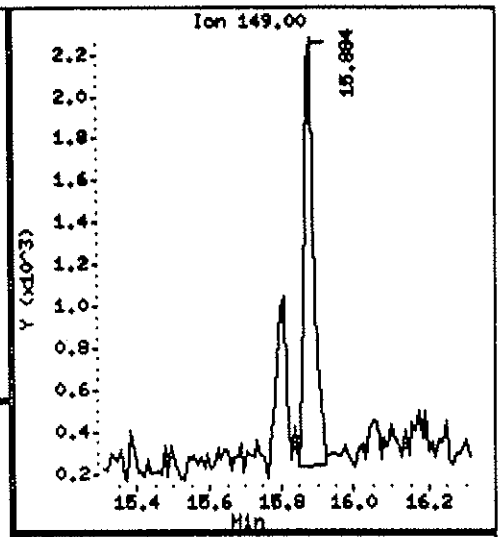
155 Di-n-octylphthalate Concentration: 0.03756 UG/L

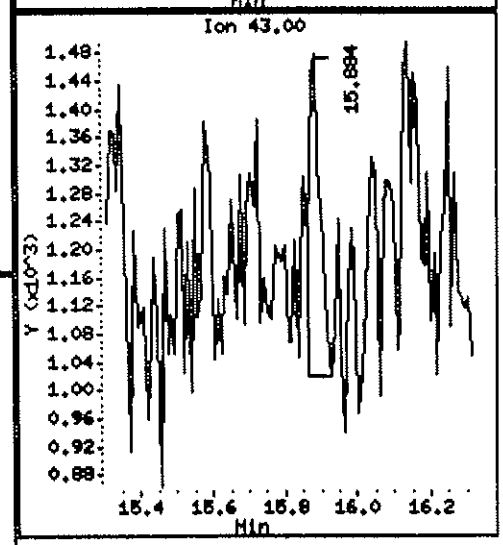






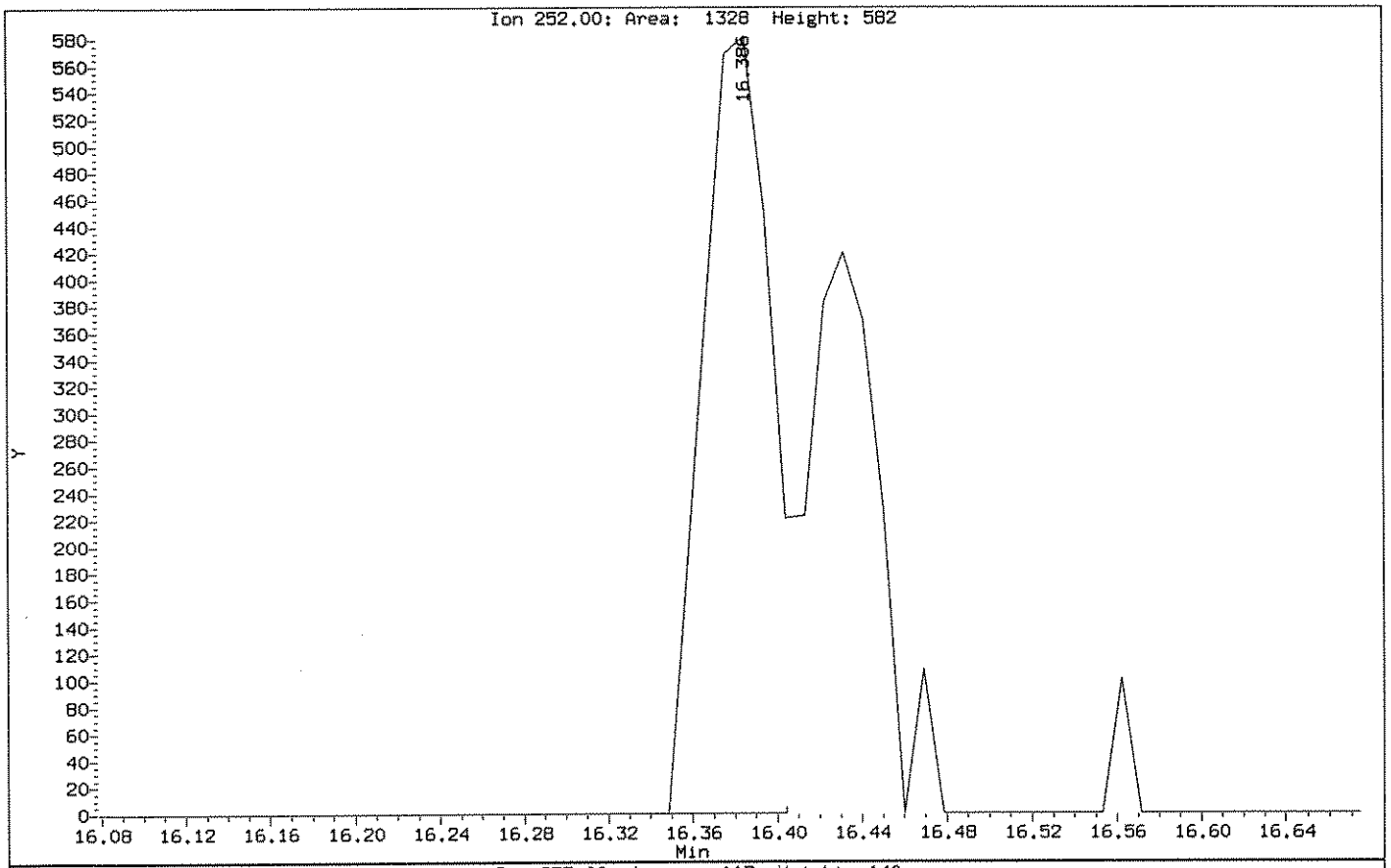


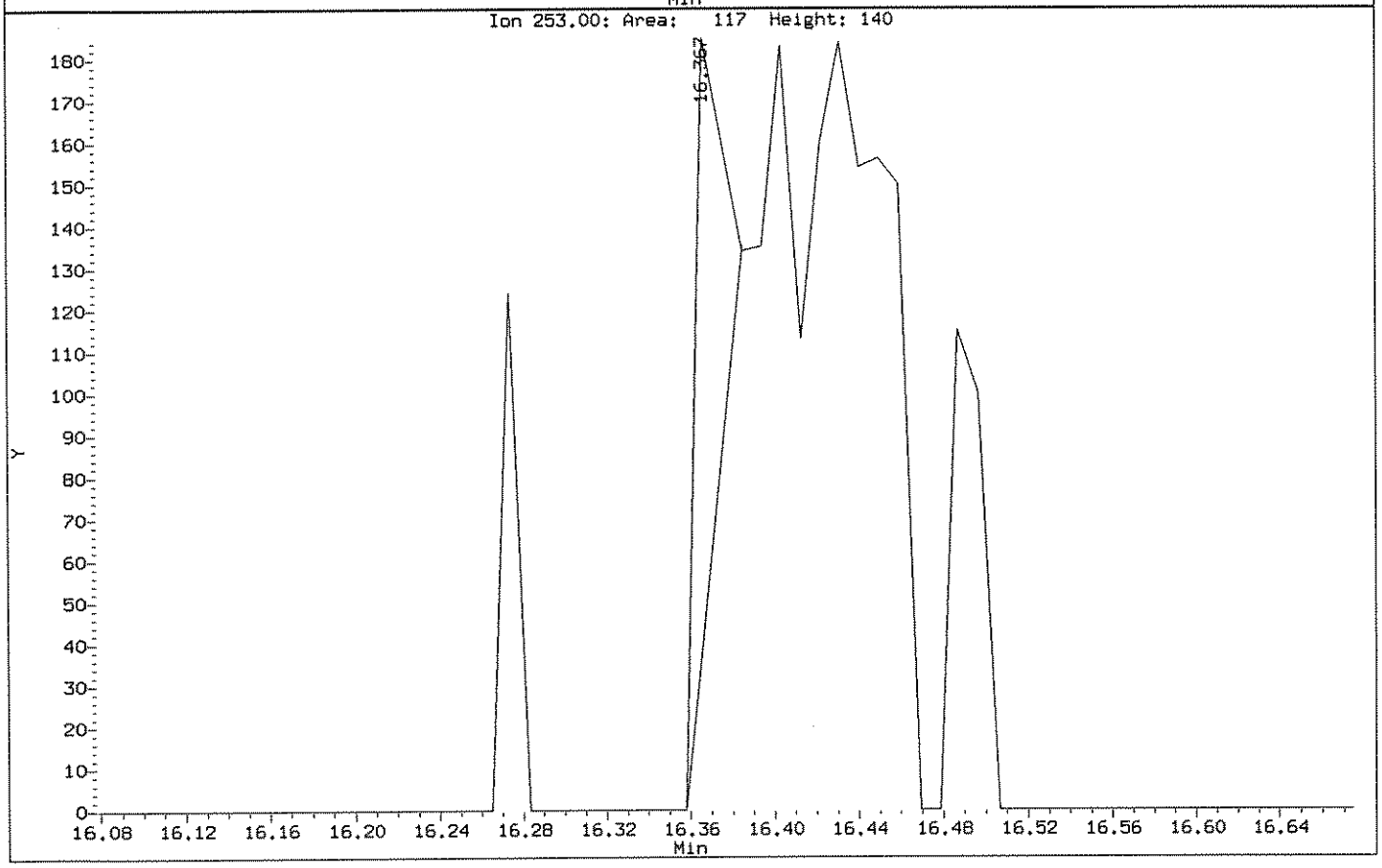




Data File: \\ELABNSH05\TARGET\chem\bna4.i\102611B4E.b\1000301.D
Injection Date: 26-OCT-2011 22:43
Instrument: bna4.i
Client Sample ID: FLC-4-MW01-092911

Compound: Benzo(b)fluoranthene
CAS Number: 205-99-2





Data File: \\ELAINHHOS\TARGET\chem\bna4.i\10261124E.b\1000301.D

Date : 26-OCT-2011 22:43

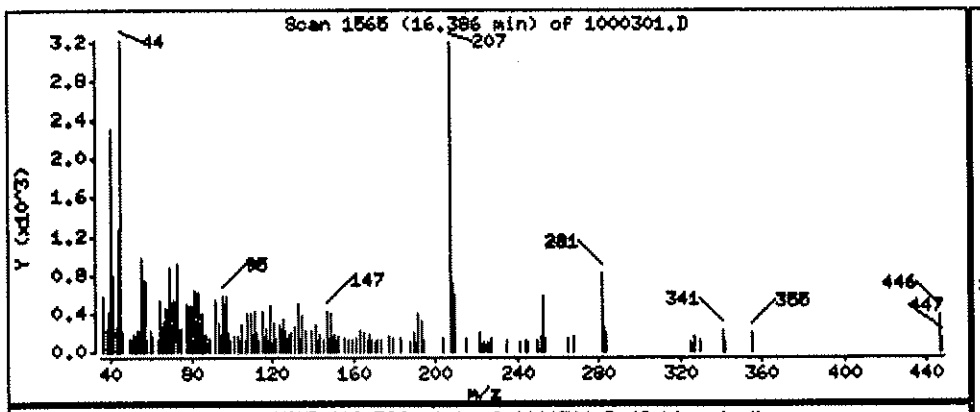
Client ID: FLC-4-HW01-092911 Instrument: bna4.i

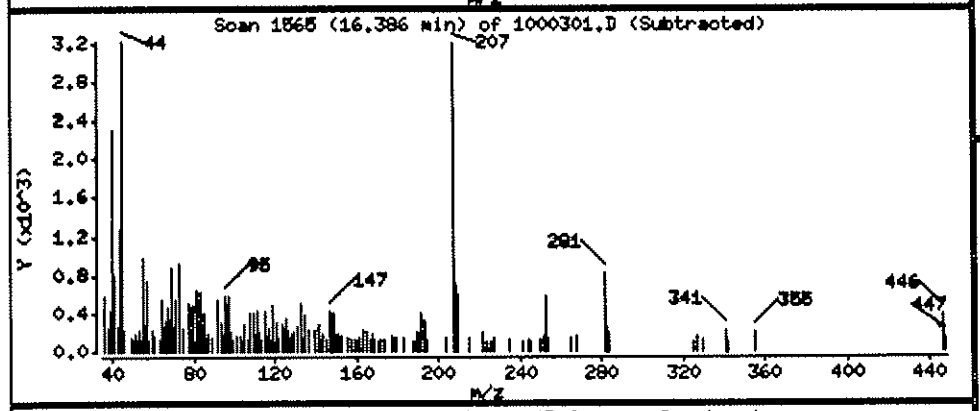
Sample Info: 1110003-01;1;1000;1000;1;UG/L;03-OCT-2011

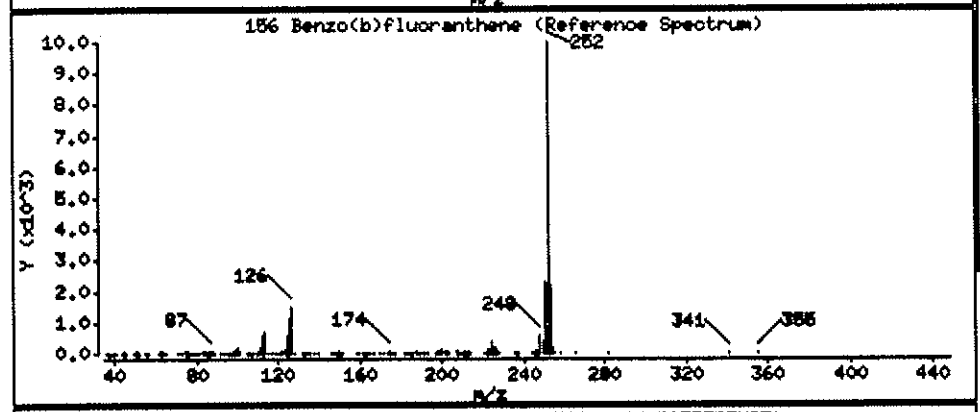
Volume Injected (uL): 1.0 Operator: HEC

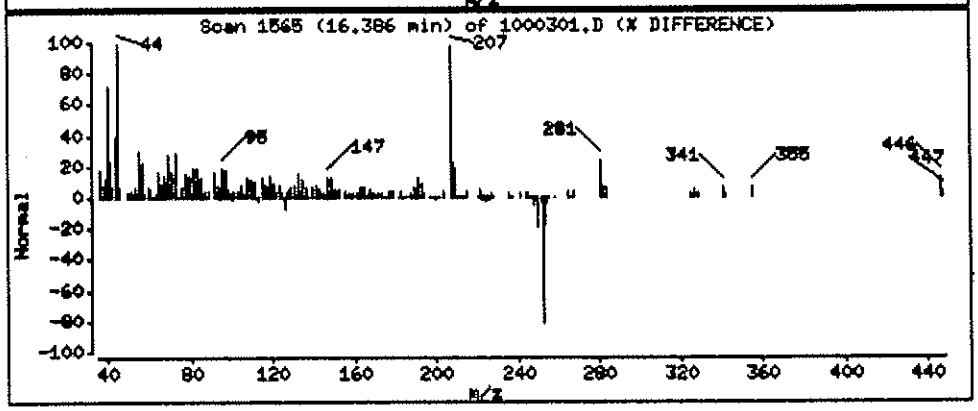
Column phase: fused silica Column diameter: 0.25

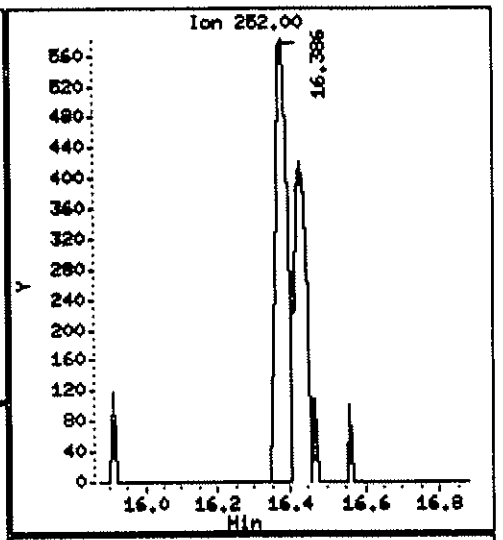
156 Benzo(b)fluoranthene Concentration: 0.02218 UG/L

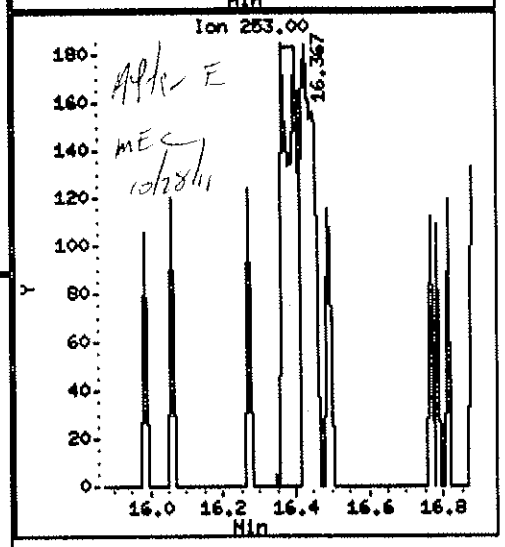












Data File: \\ELABNSH05\TARGET\chem\bna4.i\102611B4E.b\1000303.D
Report Date: 28-Oct-2011 10:40

J.H. 11.1.11

Laboratory Name

Data file : \\ELABNSH05\TARGET\chem\bna4.i\102611B4E.b\1000303.D
Lab Smp Id: 1110003-03 Client Smp ID: FLC-4-MW02-092911
Inj Date : 26-OCT-2011 23:12 MS Autotune Date: 23-OCT-2011 10:06
Operator : MEC Inst ID: bna4.i
Smp Info : 1110003-03;1;1000;1000;1;UG/L;03-OCT-2011
Misc Info : ;0;;;;1J03003;pahmisc.sub;
Comment :
Method : \\ELABNSH05\TARGET\chem\bna4.i\102611B4E.b\IXBN4LOW.m
Meth Date : 28-Oct-2011 10:39 mcobb Quant Type: ISTD
Cal Date : 24-AUG-2011 18:33 Cal File: SEQ-CAL9.D
Als bottle: 26
Dil Factor: 1.00000
Integrator: HP RTE Compound Sublist: pahmisc.sub
Target Version: 4.04
Processing Host: TARGET09_VM

Concentration Formula: Amt * DF * Uf * Vt* Vi/(Amt * Vi)

Name	Value	Description
DF	1.000	Dilution Factor
Uf	1.000	ng unit correction factor
Vt	1000.000	Volume of final extract (uL)
Vi	1.000	Volume injected (uL)
Amt	1000.000	Volume of initial extraction

Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS ON-COLUMN (ng/ul)	FINAL (UG/L)
* 102 Phenanthrene-d10	188	10.370	10.361	(1.000)	143995	1.00000	
$ 74 2-Fluorobiphenyl	172	7.721	7.712	(0.745)	4342363	31.9143	31.91
80 Acenaphthene	153	8.576	8.576	(0.827)	8722	0.06820	0.06820
84 Dibenzofuran	168	8.790	8.790	(0.848)	4124	0.02673	0.02673(a)
$ 107 2,4,6-Tribromophenol	330	9.515	9.506	(0.918)	2081732	83.5060	83.50
111 Phenanthrene	178	10.398	10.398	(1.003)	16596	0.09905	0.09904
116 Fluoranthene	202	11.932	11.932	(1.151)	6765	0.04287	0.04287(a)
134 Pyrene	202	12.267	12.267	(1.183)	4582	0.02861	0.02860(a)
* 154 Perylene-d12	264	17.082	17.082	(1.000)	55669	1.00000	
$ 135 Terphenyl-d14	244	12.546	12.537	(1.210)	4263360	46.6818	46.68
140 Bis(2-ethylhexyl)phthalate	149	14.507	14.507	(0.849)	11573	0.12591	0.1259

MEC
10/28/11

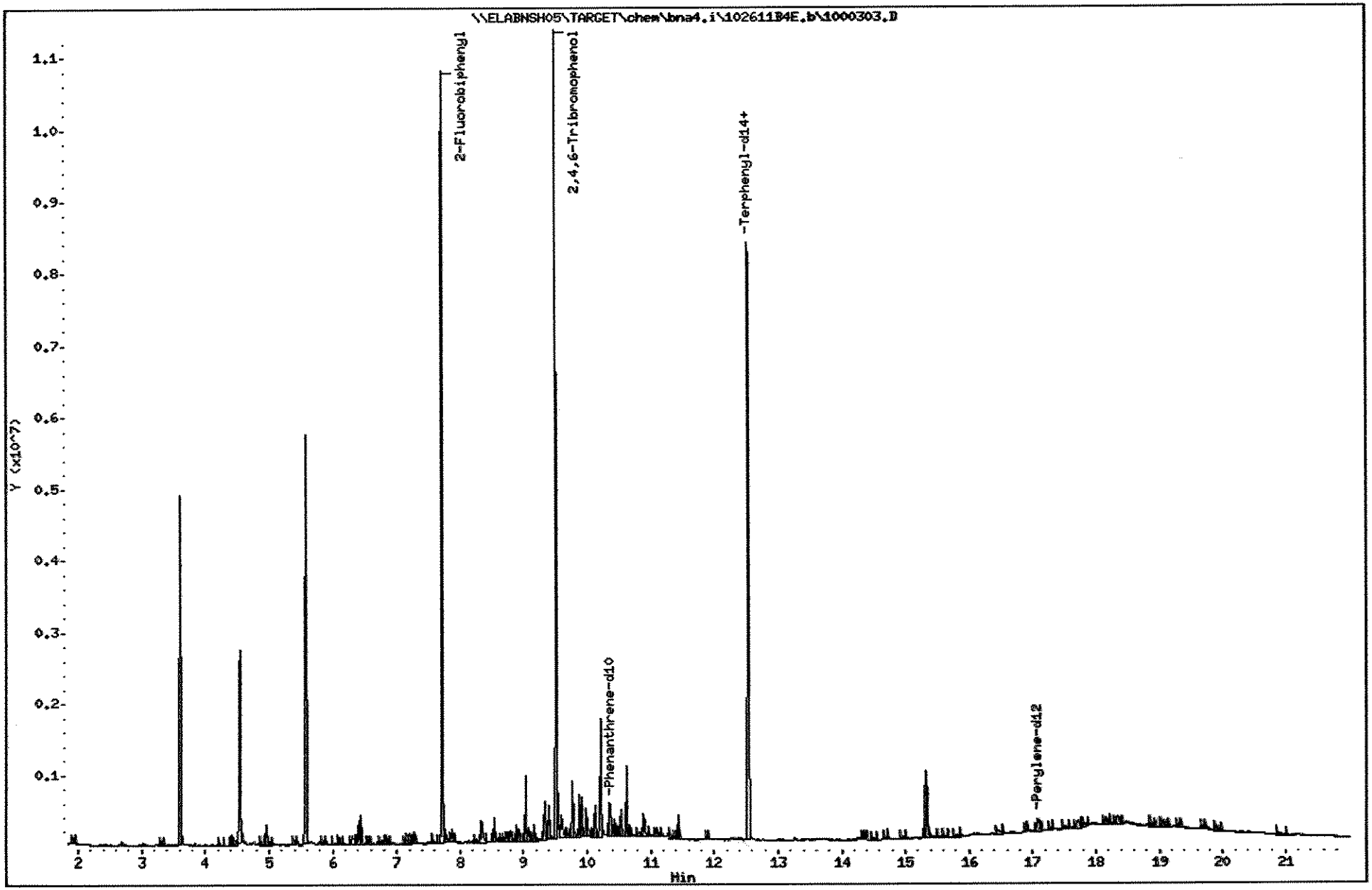
Data File: \\ELABNSH05\TARGET\chem\bna4.i\102611B4E.b\1000303.D
Report Date: 28-Oct-2011 10:40

QC Flag Legend

a - Target compound detected but, quantitated amount
Below Limit Of Quantitation(BLOQ).

Data File: \\ELABNSH05\TARGET\chem\bna4.i\102611B4E.b\1000303.D
Date : 26-OCT-2011 23:12
Client ID: FLC-4-MW02-092911
Sample Info: 1110003-03;1;1000;1000;1;UG/L;03-OCT-2011
Volume Injected (uL): 1.0
Column phase: fused silica

Instrument: bna4.i
Operator: MEC
Column diameter: 0.25



716

1110003

Data File: \\ELABNSHOB\TARGET\chem\bna4.i\102611B4E.b\1000303.D

Date : 26-OCT-2011 23:12

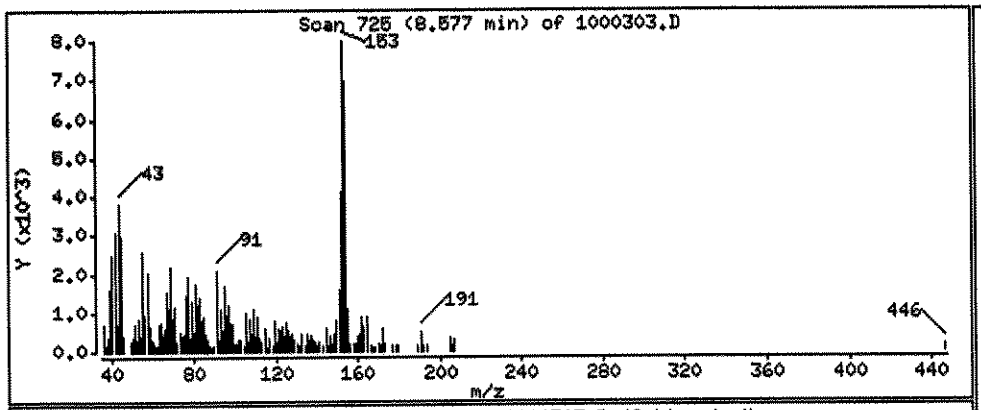
Client ID: FLC-4-MW02-092911 Instrument: bna4.i

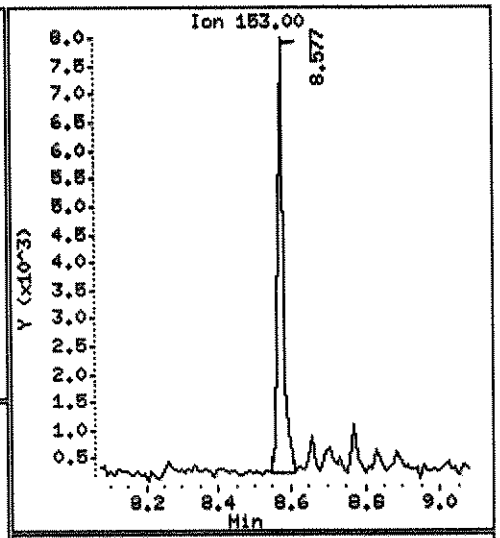
Sample Info: 1110003-03;1;1000;1000;1;UG/L;03-OCT-2011

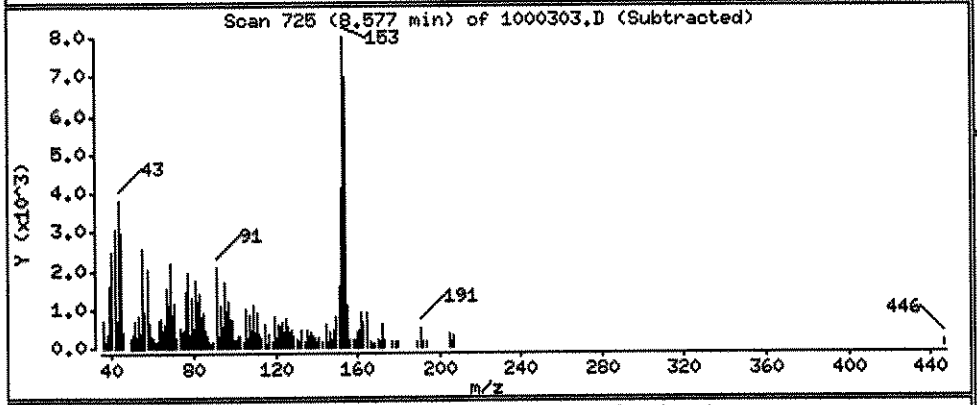
Volume Injected (uL): 1.0 Operator: MEC

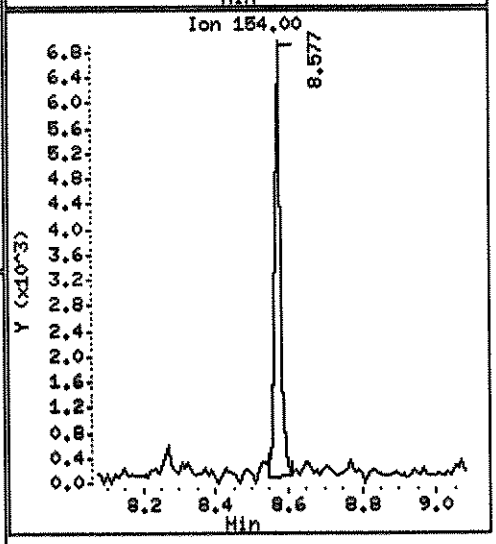
Column phase: fused silica Column diameter: 0.25

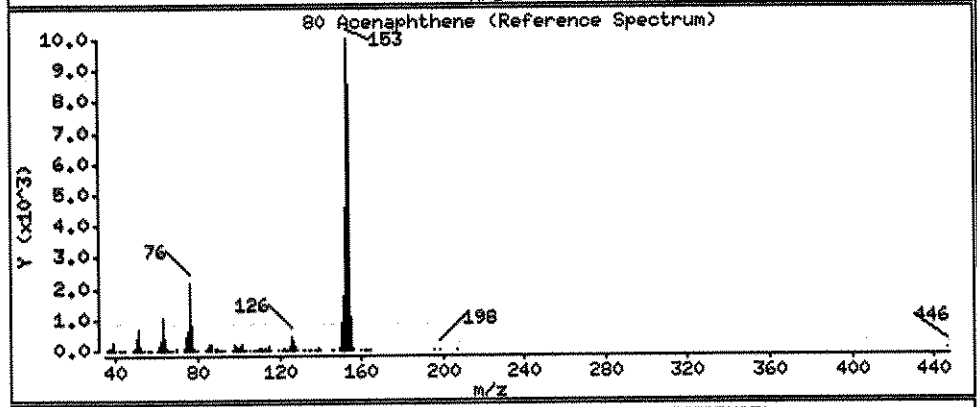
80 Acenaphthene Concentration: 0.06820 UG/L

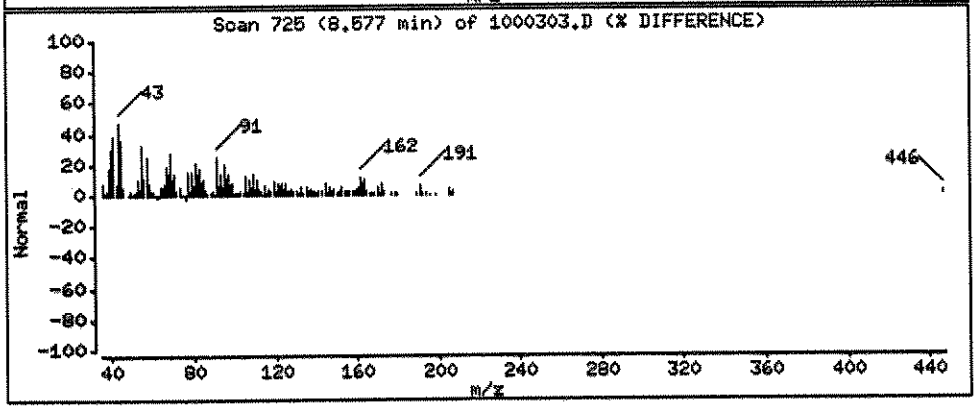












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Date : 26-OCT-2011 23:12

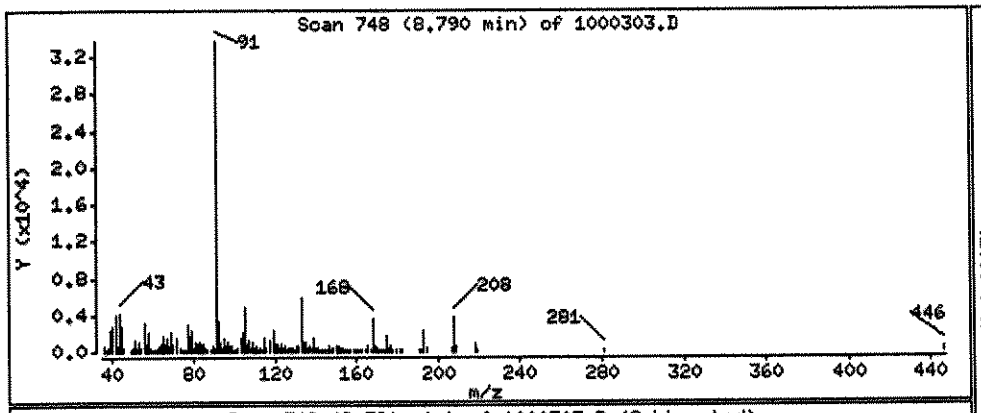
Client ID: FLC-4-MW02-092911 Instrument: bna4.i

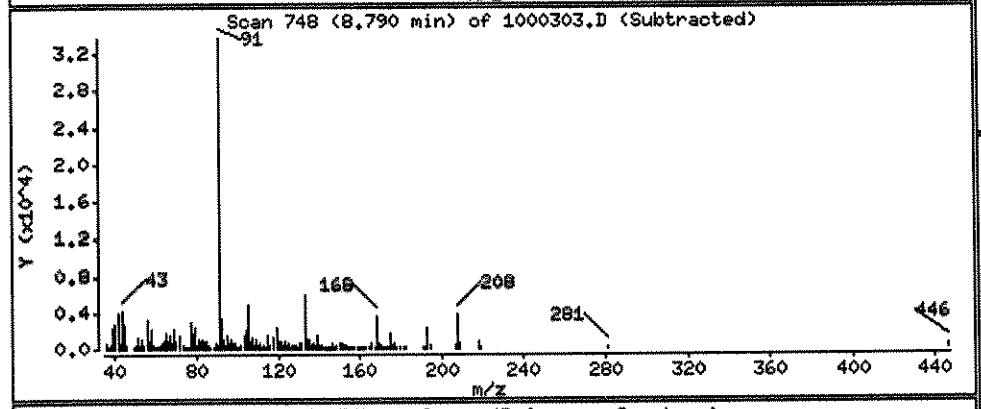
Sample Info: 1110003-03;1;1000;1000;1;UG/L;03-OCT-2011

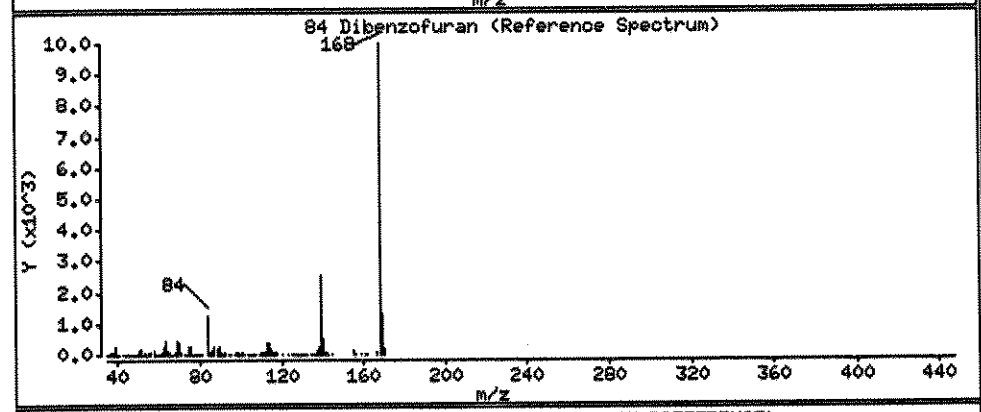
Volume Injected (uL): 1.0 Operator: MEC

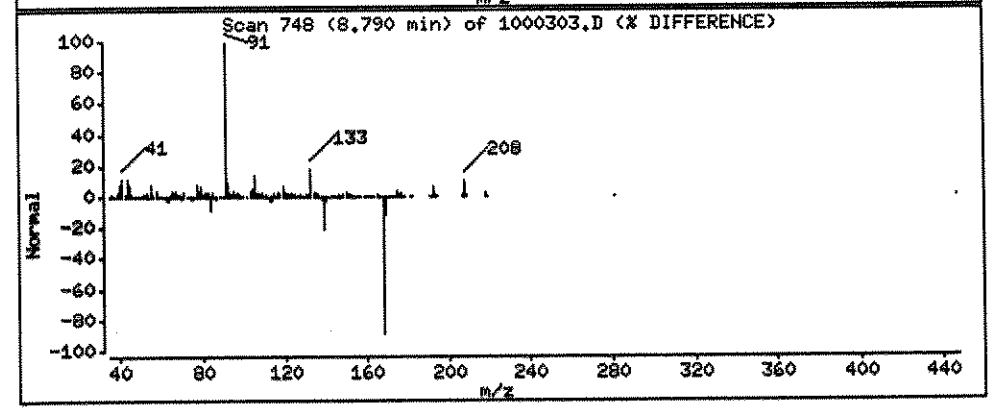
Column phase: fused silica Column diameter: 0.25

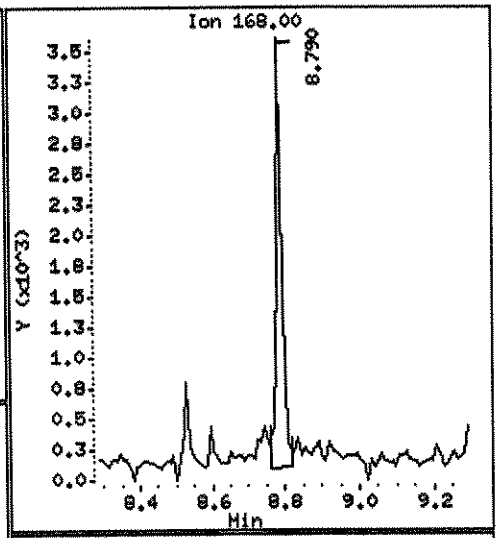
84 Dibenzofuran Concentration: 0.02673 UG/L

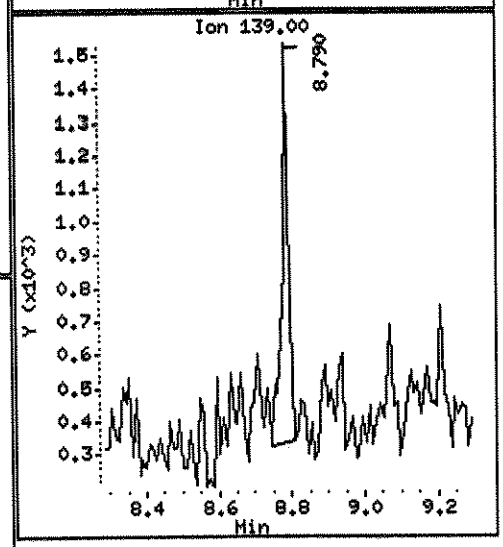












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Date : 26-OCT-2011 23:12

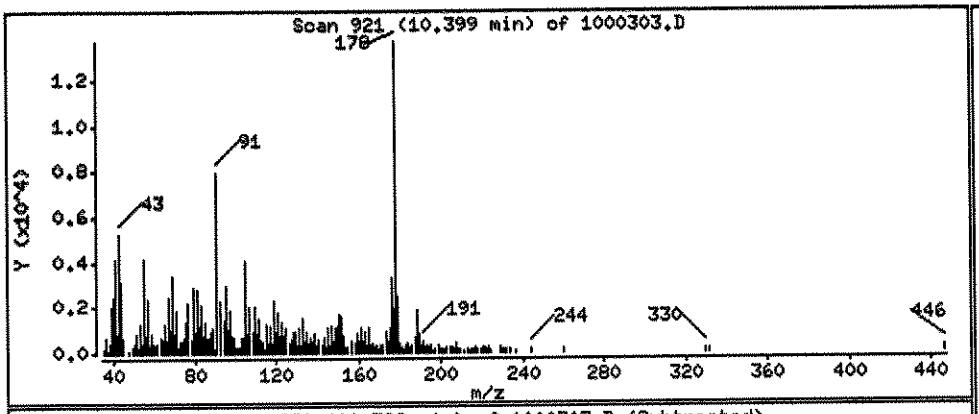
Client ID: FLC-4-HW02-092911 Instrument: bna4.i

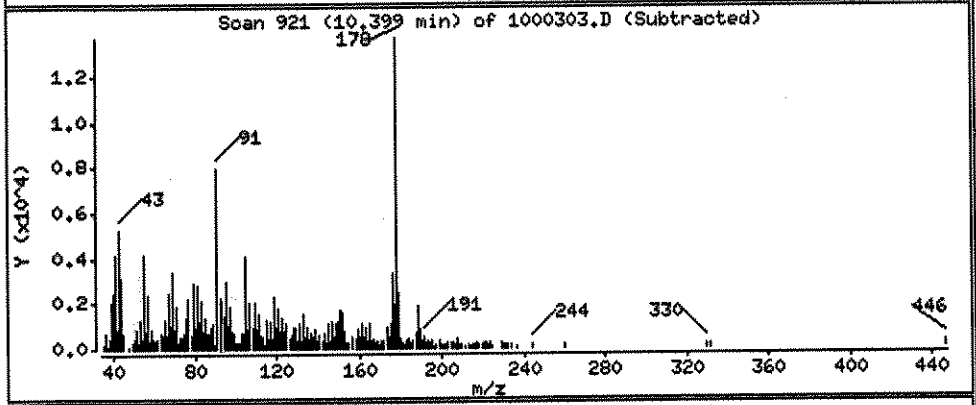
Sample Info: 1110003-03;1;1000;1000;1;UG/L;03-OCT-2011

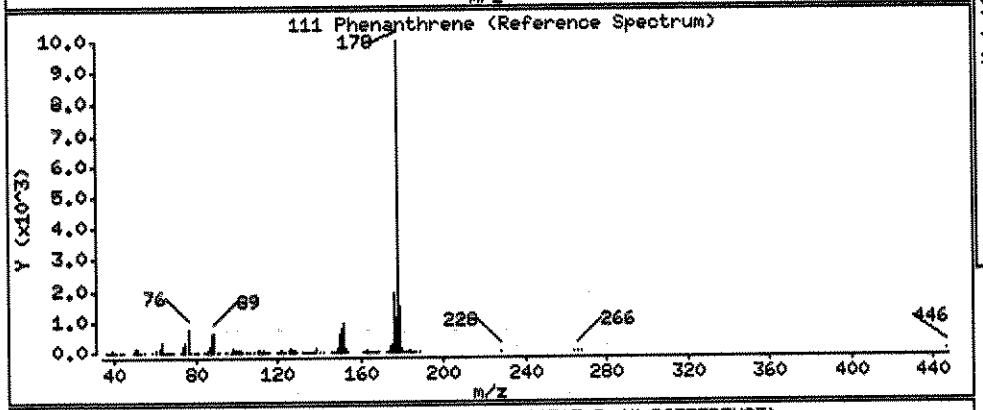
Volume Injected (uL): 1.0 Operator: MEC

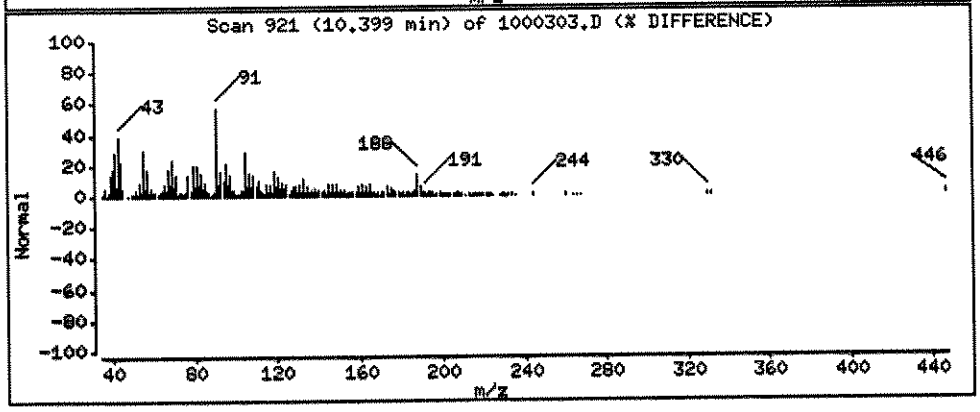
Column phase: fused silica Column diameter: 0.25

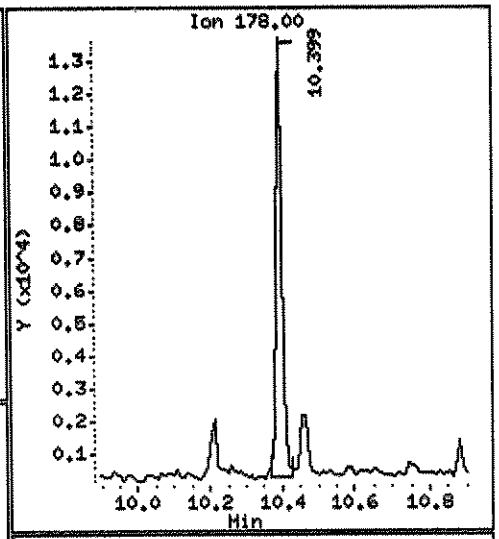
111 Phenanthrene Concentration: 0.09904 UG/L

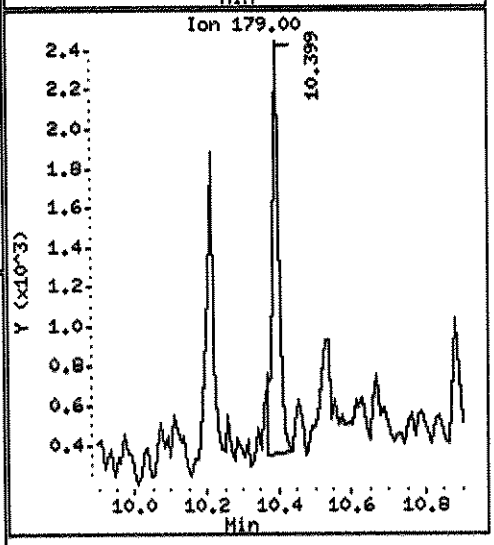












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Date : 26-OCT-2011 23:12

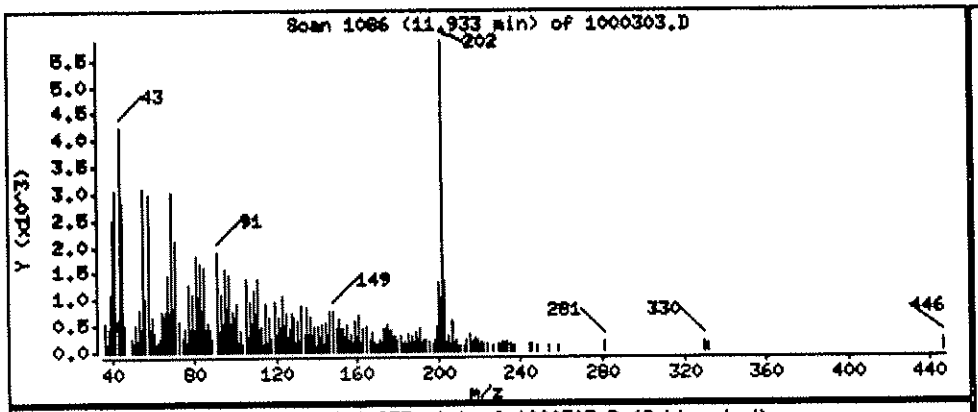
Client ID: FLC-4-HW02-092911 Instrument: bna4.i

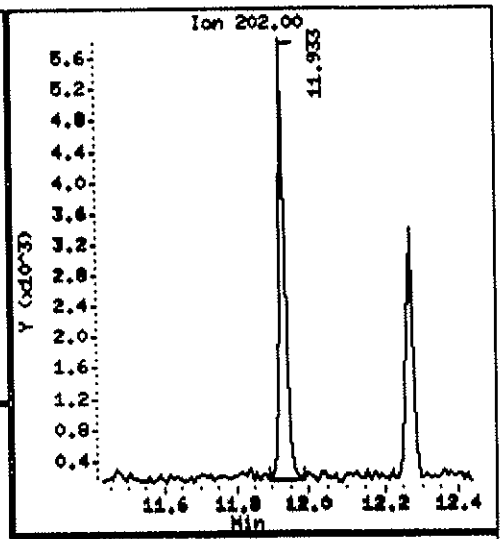
Sample Info: 1110003-03;1;1000;1000;1;UG/L;03-OCT-2011

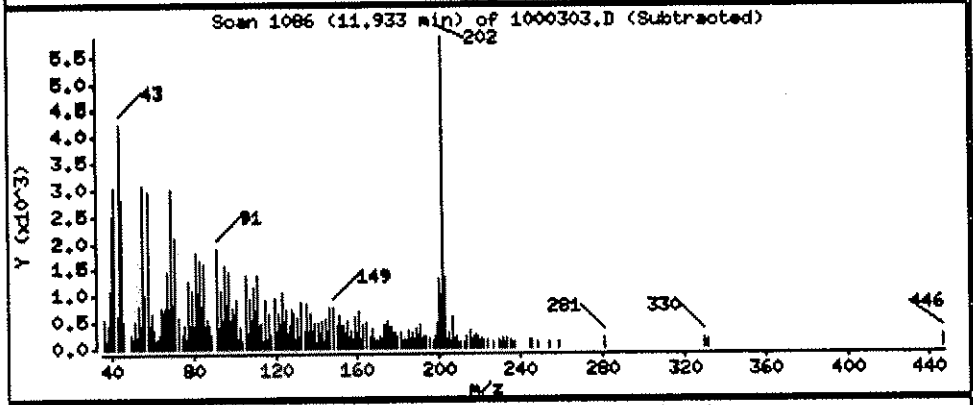
Volume Injected (uL): 1.0 Operator: HEC

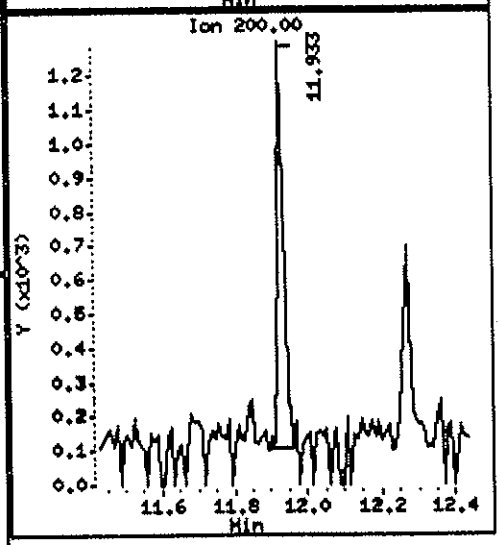
Column phase: Fused silica Column diameter: 0.25

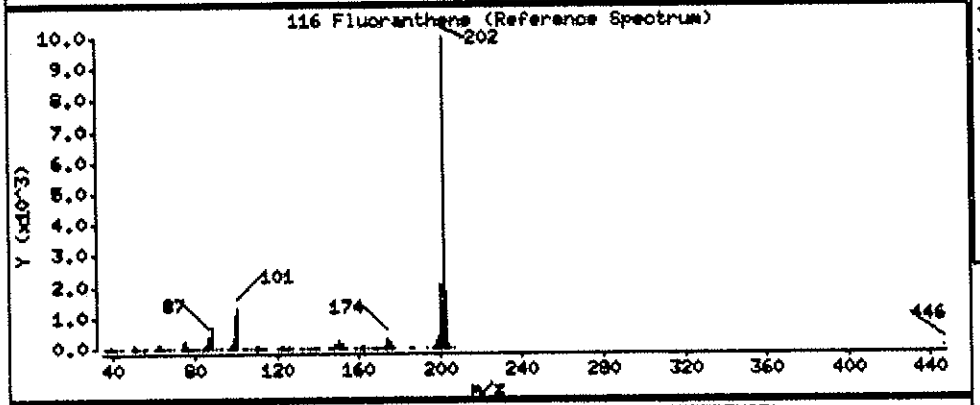
116 Fluoranthene Concentration: 0.04287 UG/L

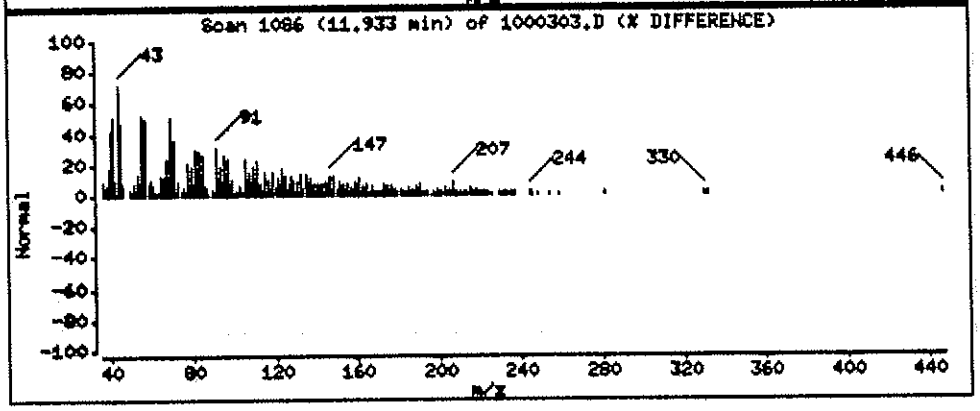












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Date : 26-OCT-2011 23:12

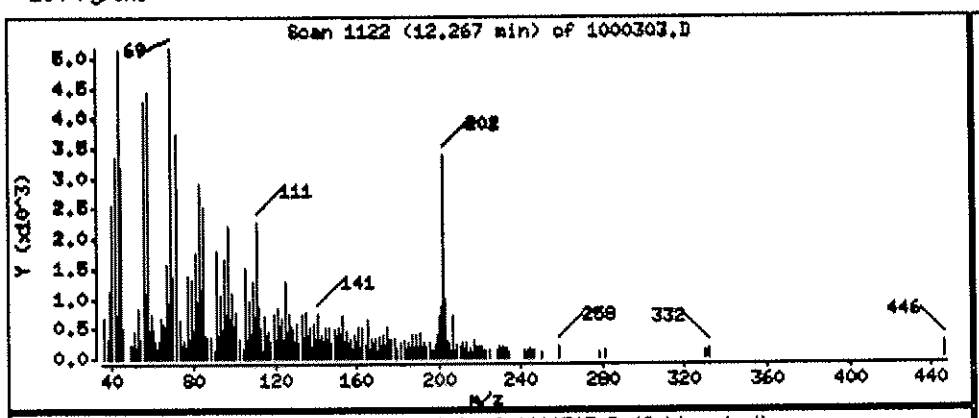
Client ID: FLC-4-HW02-092911 Instrument: bna4.i

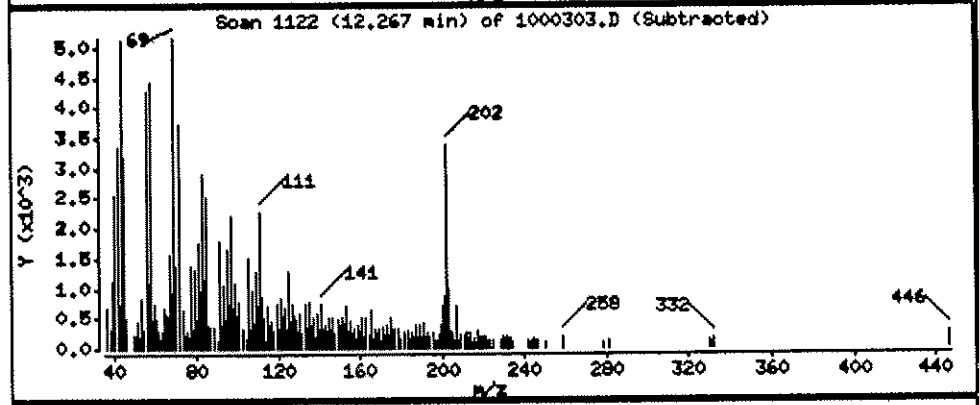
Sample Info: 1110003-03;1;1000;1000;1;UG/L;03-OCT-2011

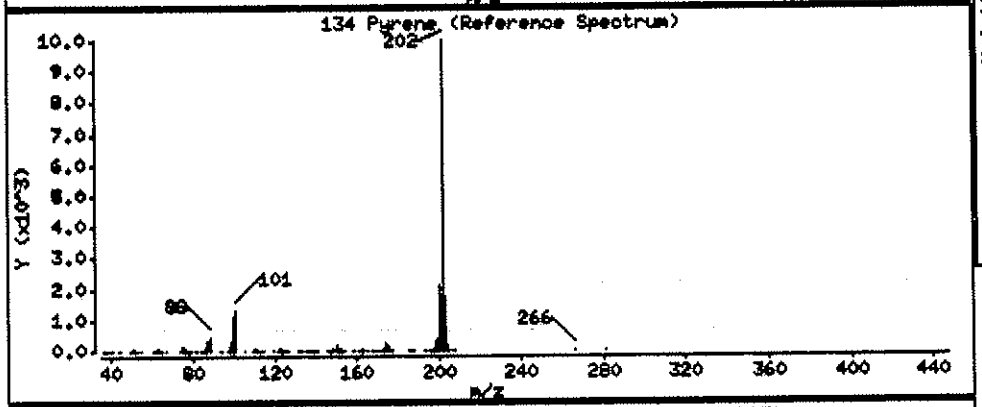
Volume Injected (uL): 1.0 Operator: HEC

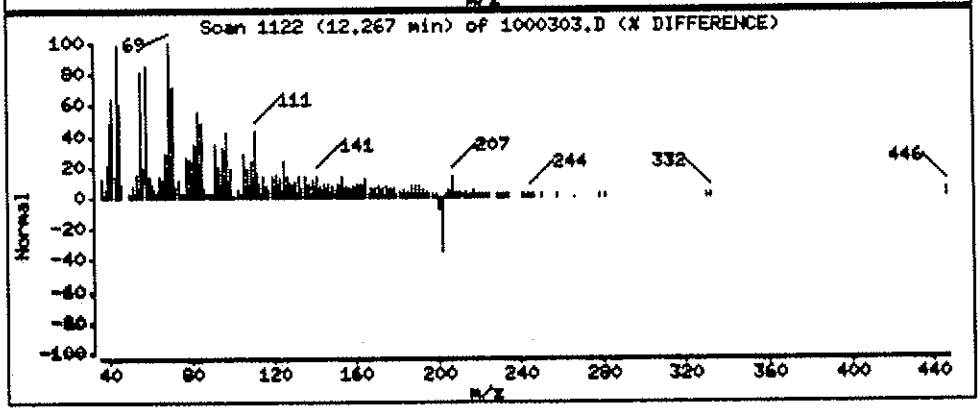
Column phase: fused silica Column diameter: 0.25

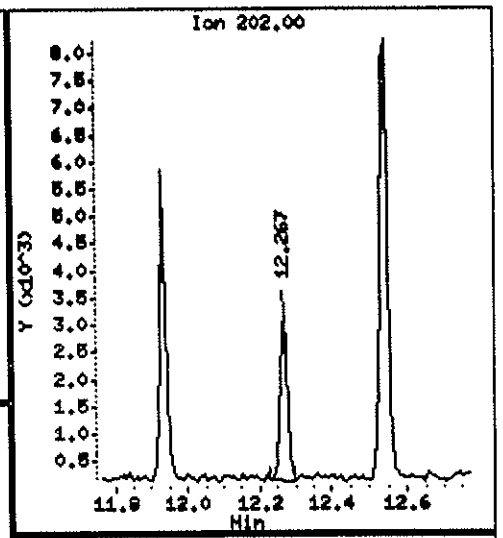
134 Pyrene Concentration: 0.02860 UG/L

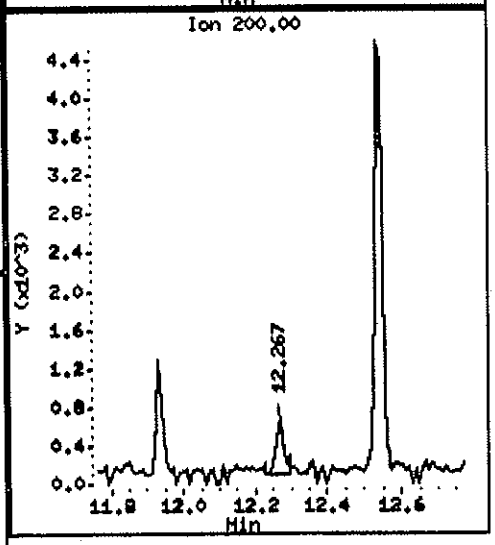












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Date : 26-OCT-2011 23:12

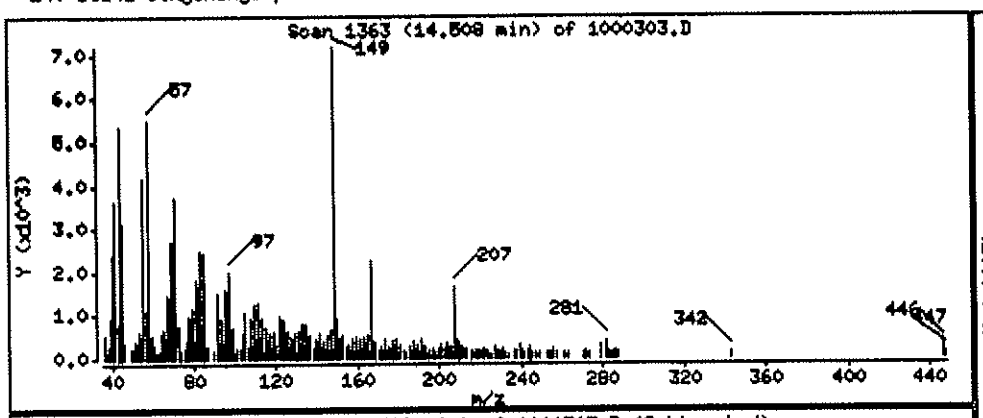
Client ID: FLC-4-HWO2-092911 Instrument: bna4.i

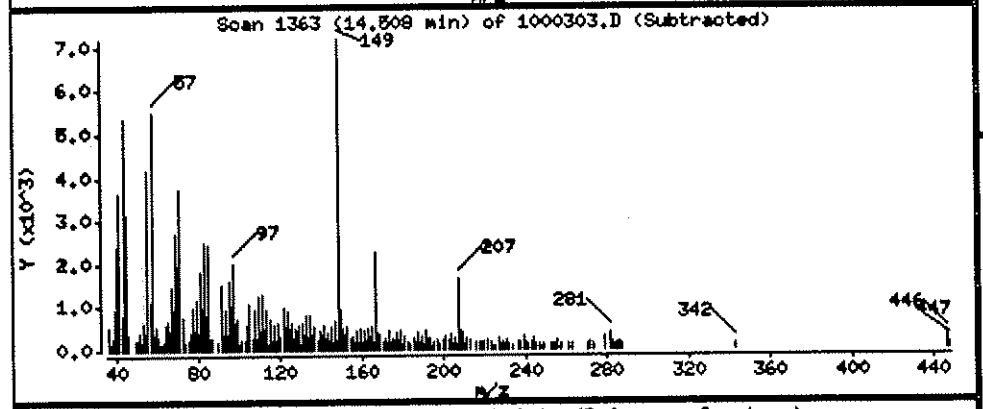
Sample Info: 1110003-03;1;1000;1000;1;UG/L;03-OCT-2011

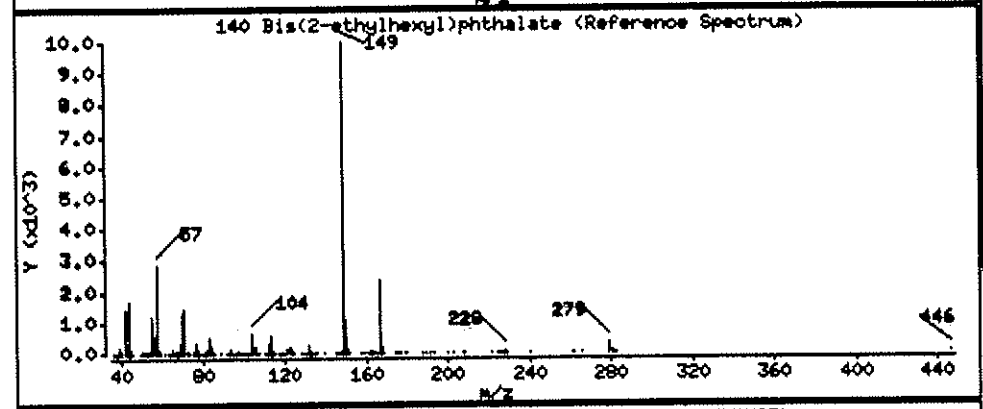
Volume Injected (uL): 1.0 Operator: HEC

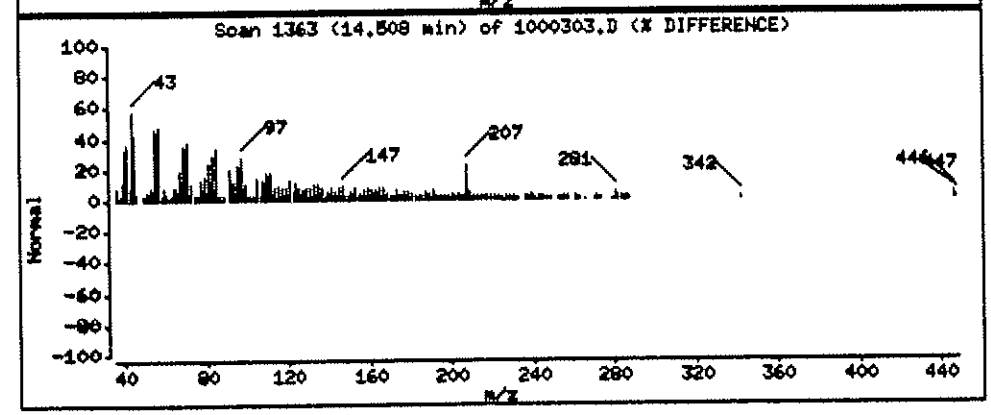
Column phase: fused silica Column diameter: 0.25

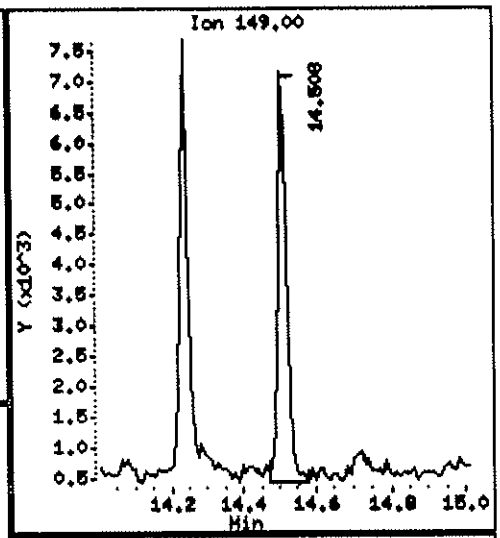
140 Bis(2-ethylhexyl)phthalate Concentration: 0.1259 UG/L

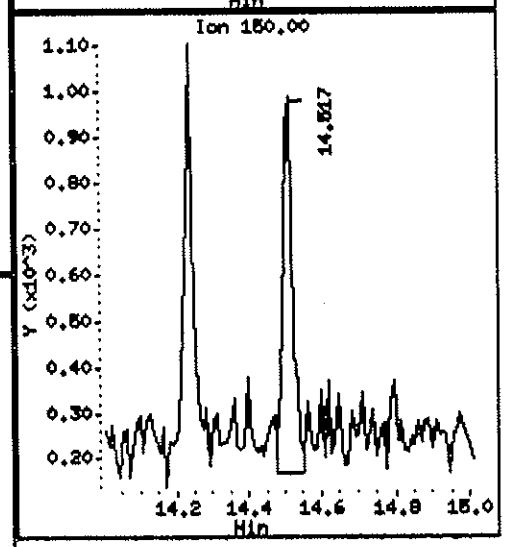












Data File: \\ELABNSH05\TARGET\chem\bna4.i\102611B4E.b\1000305.D
Report Date: 28-Oct-2011 10:41

JH. 11.1.11

Laboratory Name

Data file : \\ELABNSH05\TARGET\chem\bna4.i\102611B4E.b\1000305.D
Lab Smp Id: 1110003-05 Client Smp ID: FLC-5-MW05-092911
Inj Date : 26-OCT-2011 23:42 MS Autotune Date: 23-OCT-2011 10:06
Operator : MEC Inst ID: bna4.i
Smp Info : 1110003-05;1;1000;1000;1;UG/L;03-OCT-2011
Misc Info : ;0;;;;1J03003;pahmisc.sub;
Comment :
Method : \\ELABNSH05\TARGET\chem\bna4.i\102611B4E.b\IXBN4LOW.m
Meth Date : 28-Oct-2011 10:39 mcobb Quant Type: ISTD
Cal Date : 24-AUG-2011 18:33 Cal File: SEQ-CAL9.D
Als bottle: 27
Dil Factor: 1.00000
Integrator: HP RTE Compound Sublist: pahmisc.sub
Target Version: 4.04
Processing Host: TARGET09_VM

Concentration Formula: Amt * DF * Uf * Vt* Vi/(Amt * Vi)

Name	Value	Description
DF	1.000	Dilution Factor
Uf	1.000	ng unit correction factor
Vt	1000.000	Volume of final extract (uL)
Vi	1.000	Volume injected (uL)
Amt	1000.000	Volume of initial extraction

Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS ON-COLUMN (ng/ul)	FINAL (UG/L)
* 102 Phenanthrene-d10	188	10.370	10.361	(1.000)	141370	1.00000	(M)
55 2-Methylnaphthalene	142	7.265	7.266	(1.000)	14217	0.11278	0.1128
56 1-Methylnaphthalene	142	7.386	7.386	(1.000)	89542	0.73264	0.7326
$ 74 2-Fluorobiphenyl	172	7.721	7.712	(1.000)	2897346	21.6895	21.69
80 Acenaphthene	153	8.576	8.576	(1.000)	13678	0.10894	0.1089
$ 107 2,4,6-Tribromophenol	330	9.515	9.506	(1.000)	1504033	61.4526	61.45
111 Phenanthrene	178	10.398	10.398	(1.000)	15722	0.09557	0.09557
* 154 Perylene-d12	264	17.082	17.082	(1.000)	49379	1.00000	
$ 135 Terphenyl-d14	244	12.546	12.537	(1.000)	2110778	23.5412	23.54
140 Bis(2-ethylhexyl)phthalate	149	14.507	14.507	(0.849)	10045	0.12320	0.1232

MEC
10/28/11

Data File: \\ELABNSH05\TARGET\chem\bna4.i\102611B4E.b\1000305.D
Report Date: 28-Oct-2011 10:41

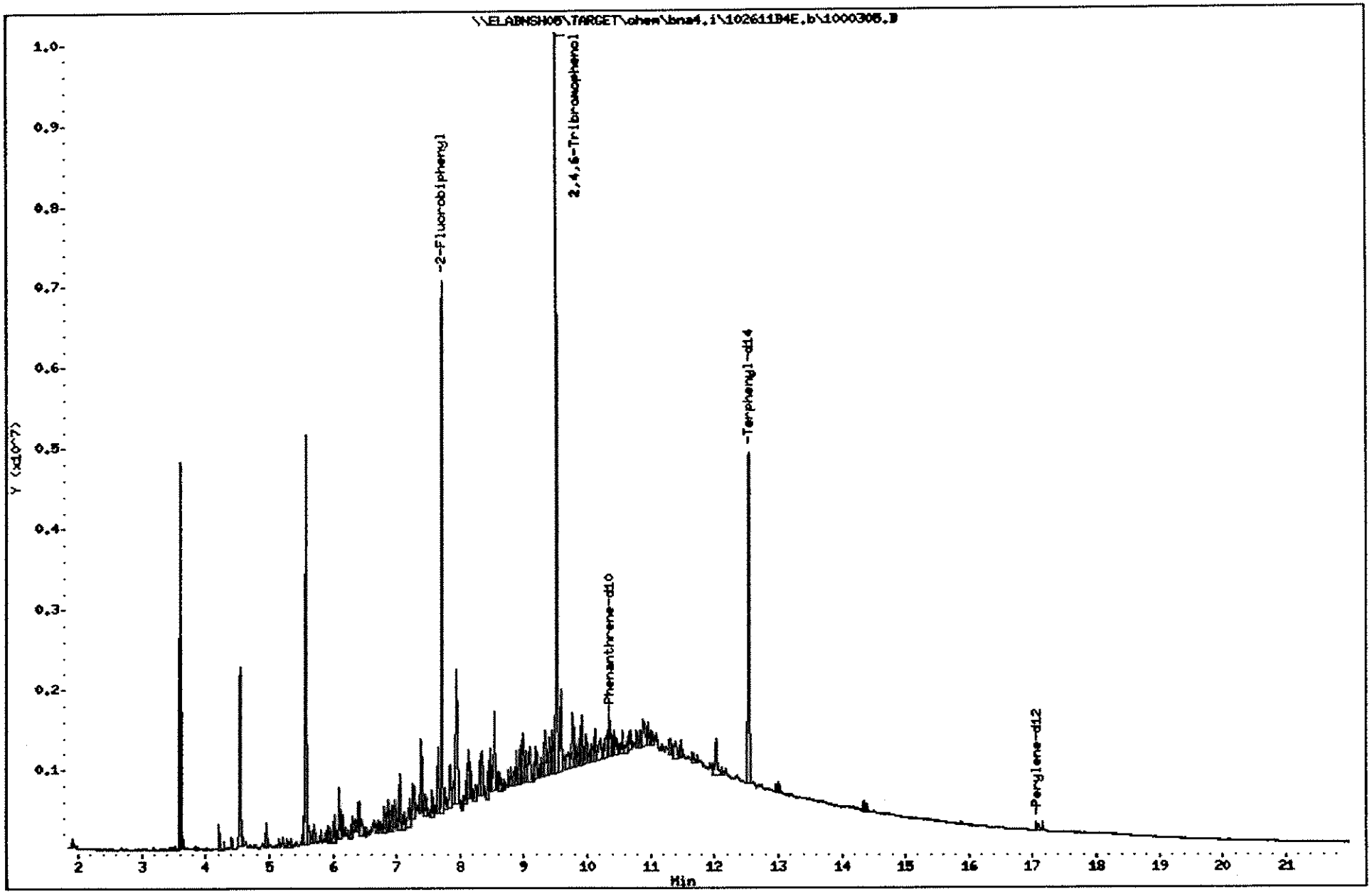
QC Flag Legend

M - Compound response manually integrated.

Data File: \\ELABNSHO6\TARGET\chem\bna4.i\102611B4E.b\1000305.D
Date : 26-OCT-2011 23:42
Client ID: FLC-5-HW06-092911
Sample Info: 1110003-06;1;1000;1000;1;UG/L;03-OCT-2011
Volume Injected (uL): 1.0
Column phase: fused silica

Instrument: bna4.i

Operator: HEC
Column diameter: 0.25



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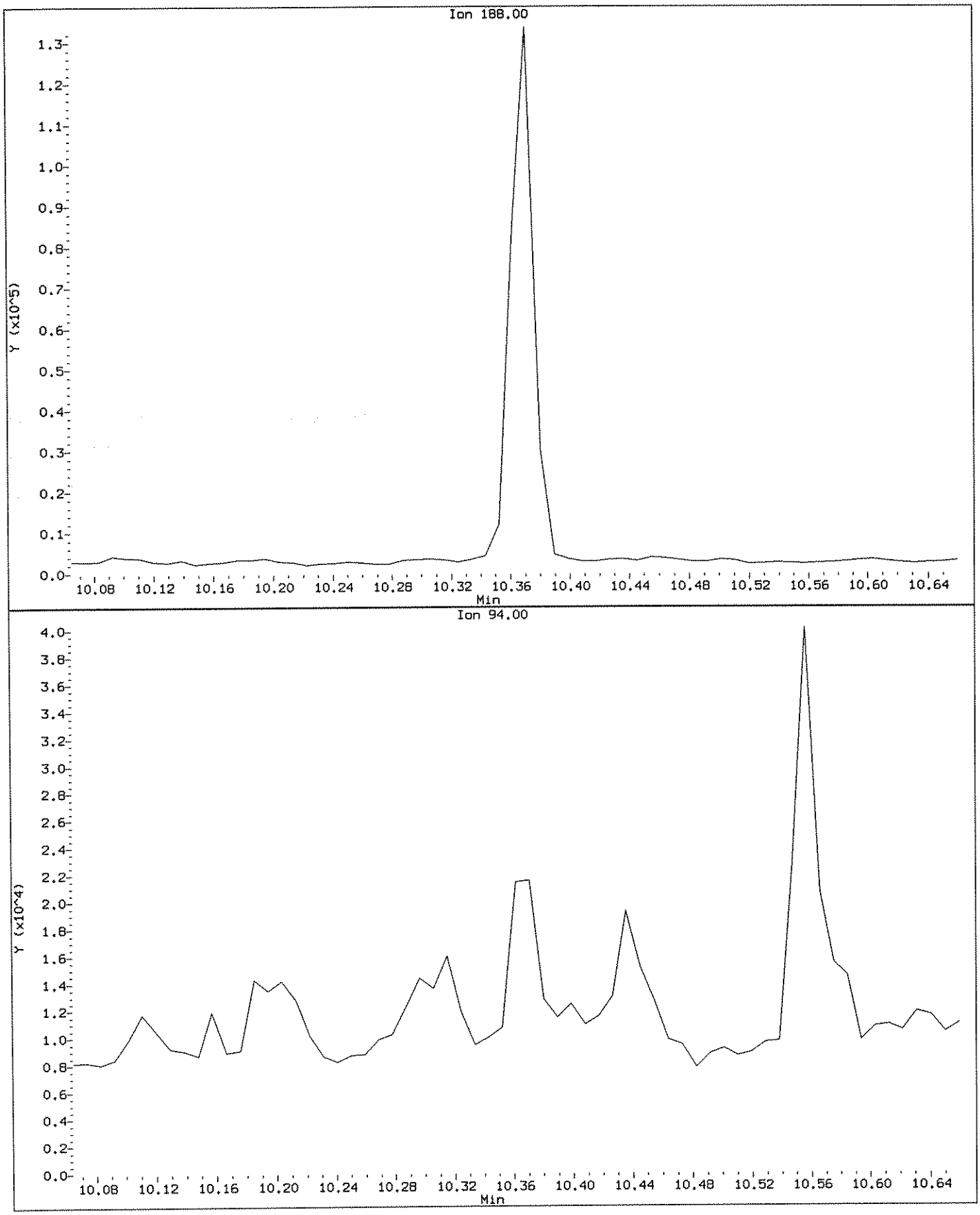
Injection Date: 26-OCT-2011 23:42
Instrument: bna4.i
Client Sample ID: FLC-5-MW05-092911

Compound: Phenanthrene-d10
CAS Number: 1517-22-2



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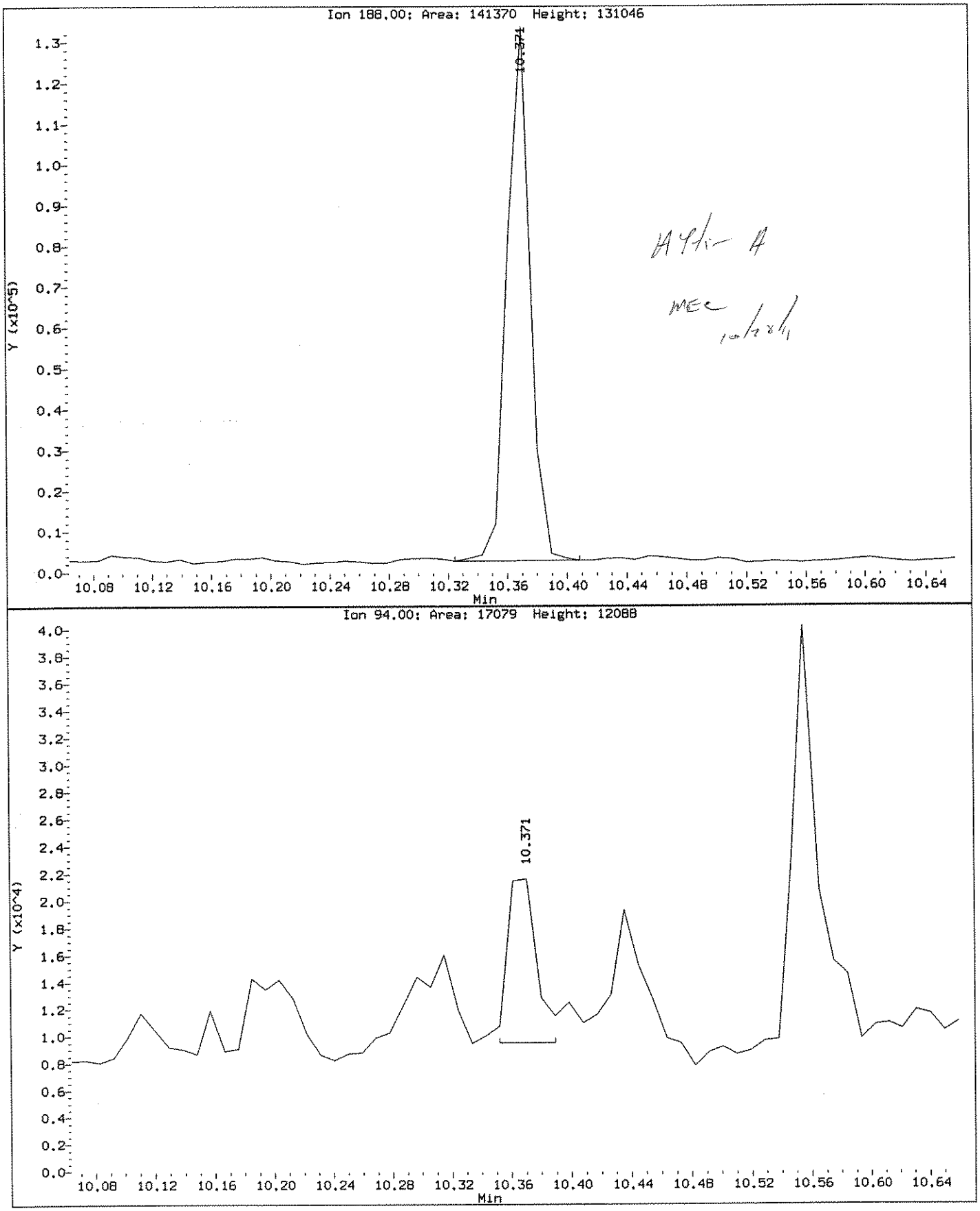
Injection Date: 26-OCT-2011 23:42
Instrument: bna4.i
Client Sample ID: FLC-5-MW05-092911

Compound: Phenanthrene-d10
CAS Number: 1517-22-2



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Date : 26-OCT-2011 23:42

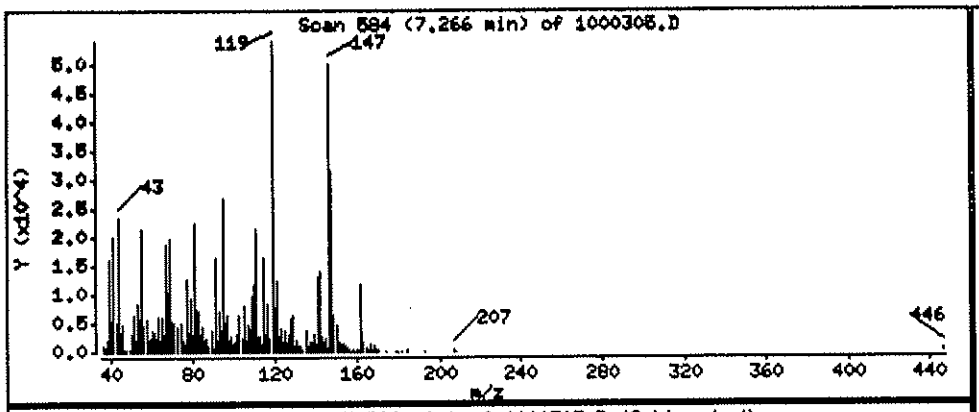
Client ID: FLC-5-MW05-092911 Instrument: bna4.i

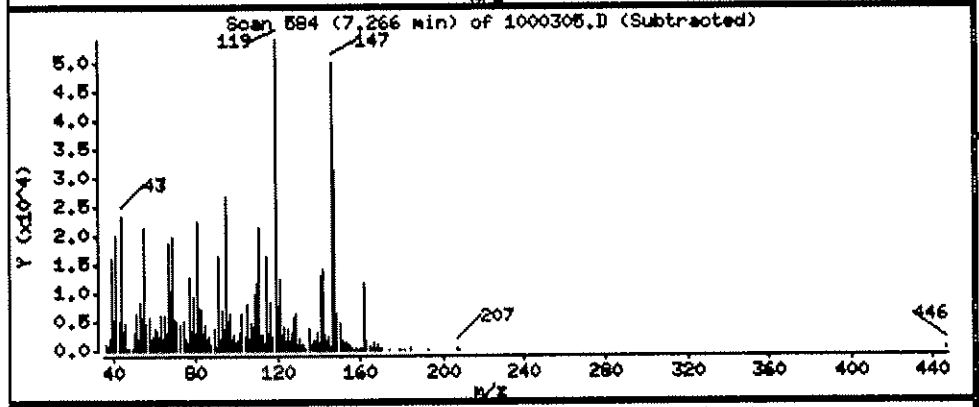
Sample Info: 1110003-05;1;1000;1000;1;UG/L;03-OCT-2011

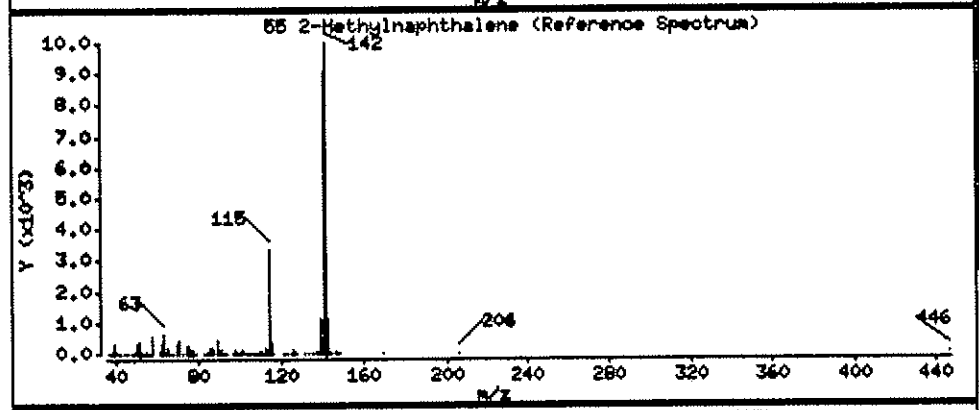
Volume Injected (uL): 1.0 Operator: HEC

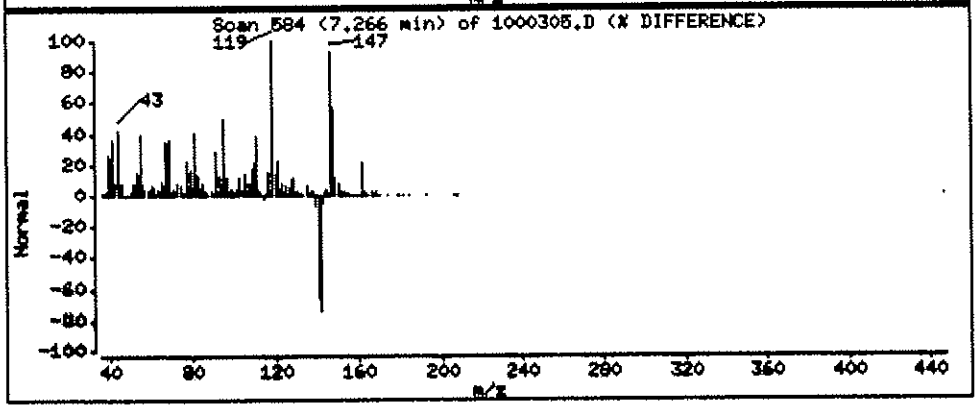
Column phase: fused silica Column diameter: 0.25

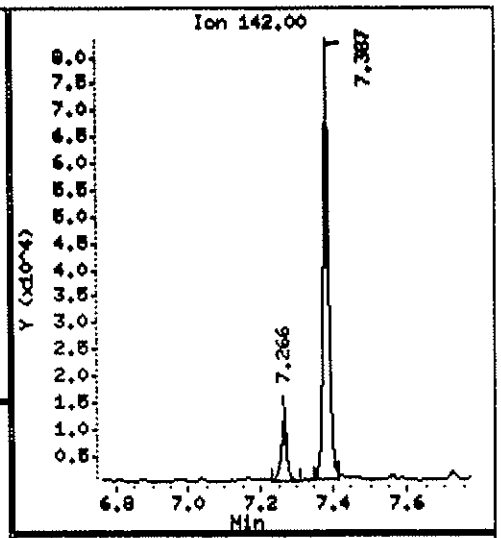
55 2-Methylnaphthalene Concentration: 0.1128 UG/L

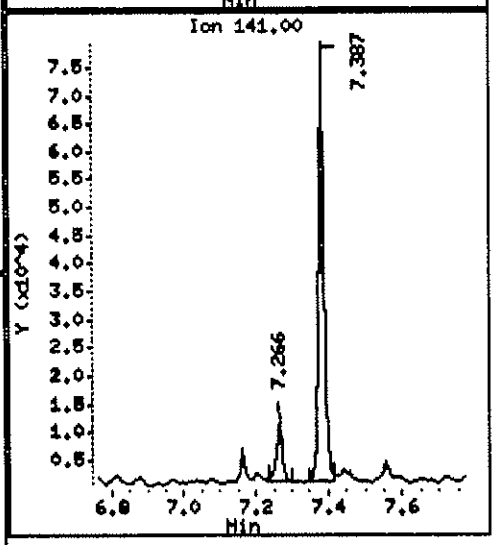












Data File: \\ELABNSHOS\TARGET\chem\bna4.i\102611B4E.b\1000305.D

Date : 26-OCT-2011 23:42

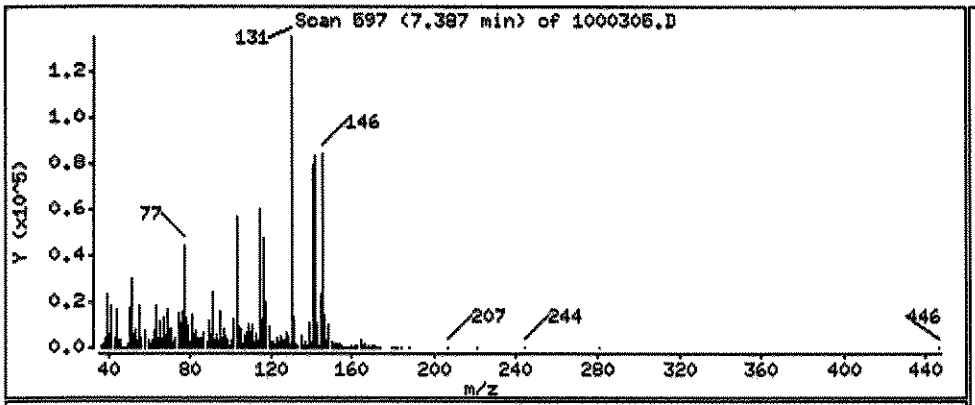
Client ID: FLC-5-MW05-092911 Instrument: bna4.i

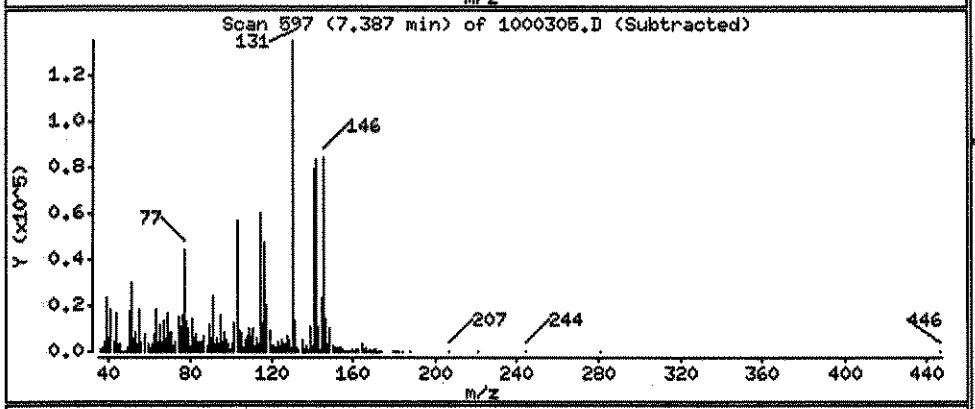
Sample Info: 1110003-05;1;1000;1000;1;UG/L;03-OCT-2011

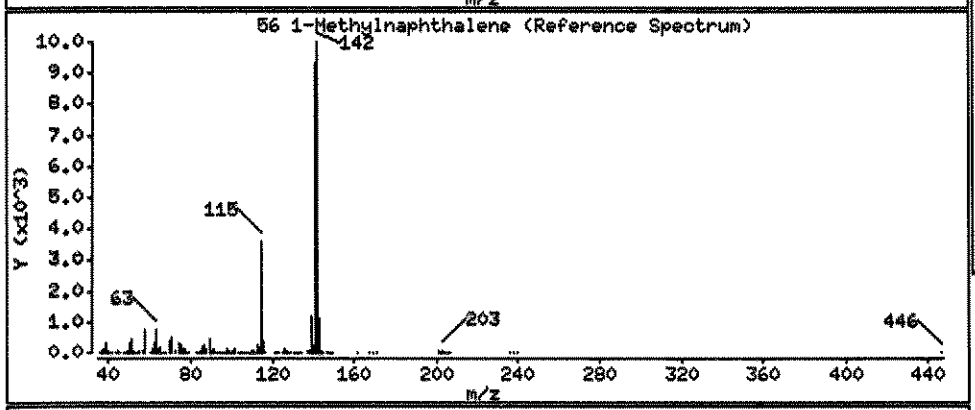
Volume Injected (uL): 1.0 Operator: MEC

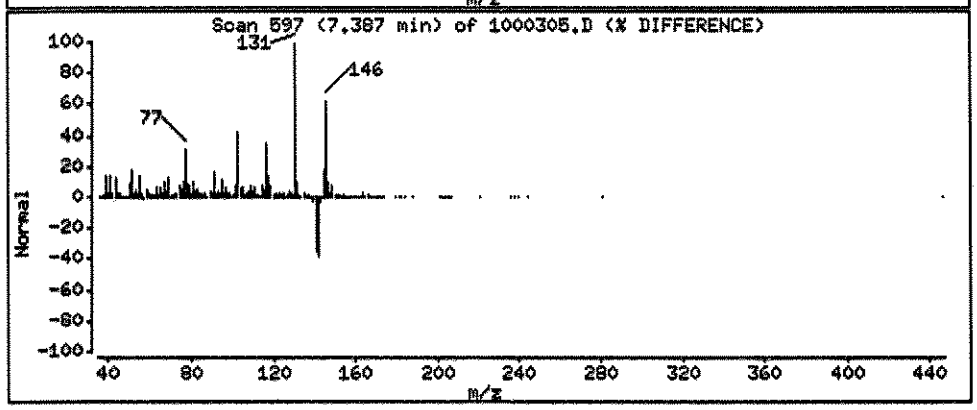
Column phase: fused silica Column diameter: 0.25

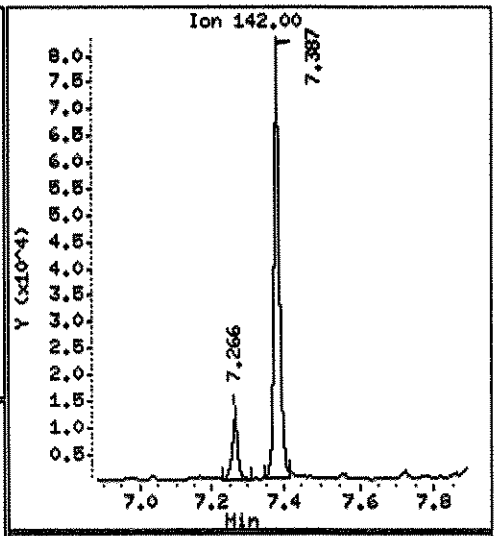
56 1-Methylnaphthalene Concentration: 0.7326 UG/L

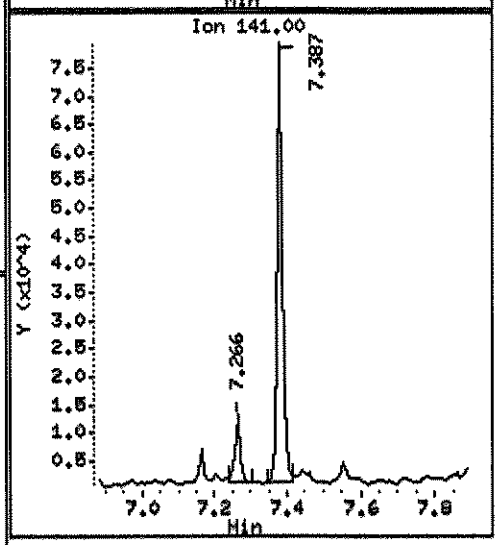












Data File: \\ELAINSWOS\TARGET\chem\bna4.i\102611D4E.b\1000305.D

Date : 26-OCT-2011 23:42

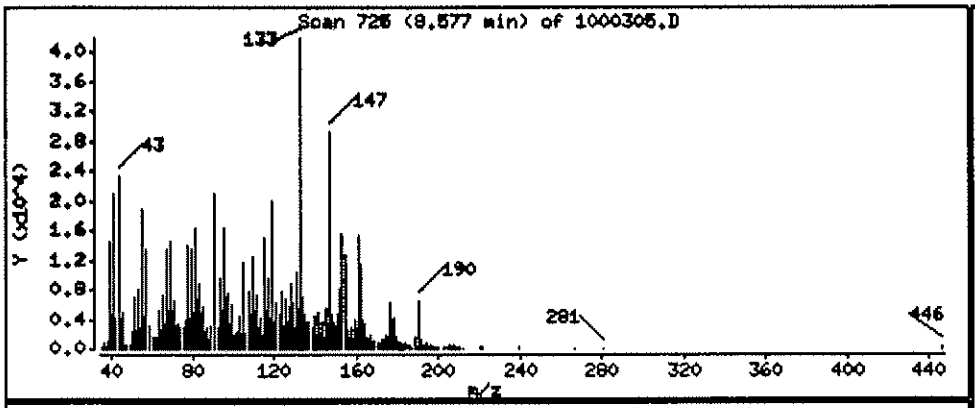
Client ID: FLC-5-MW05-092911 Instrument: bna4.i

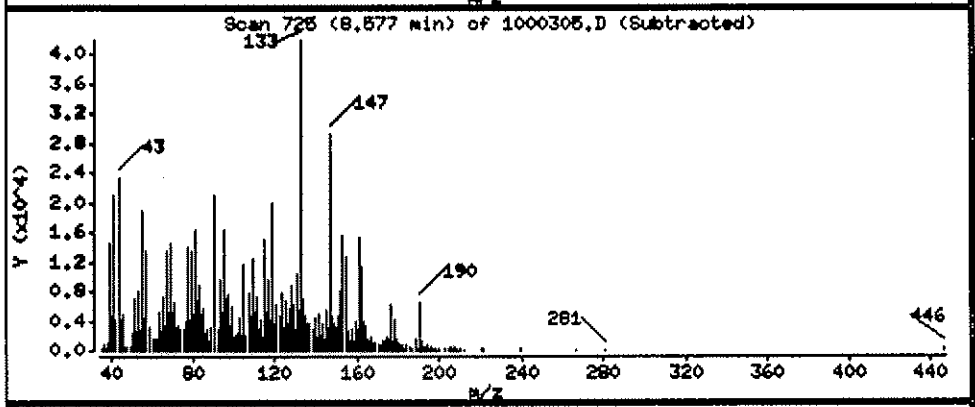
Sample Info: 1110003-05;1;1000;1000;1;UG/L;03-OCT-2011

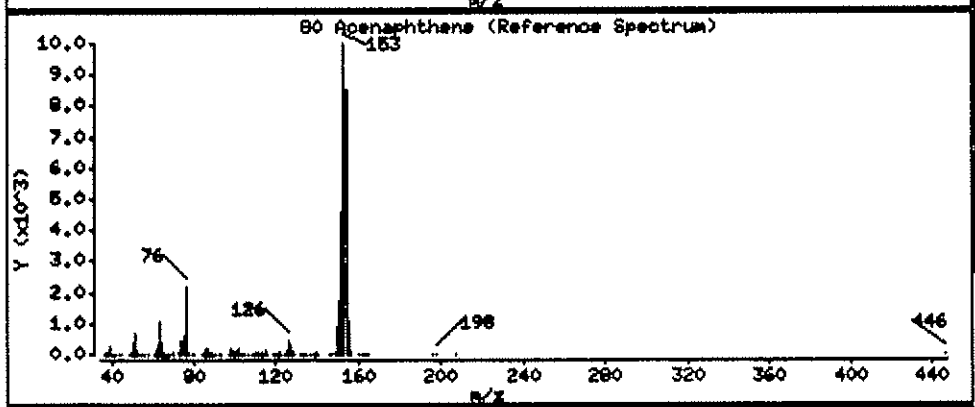
Volume Injected (uL): 1.0 Operator: HEC

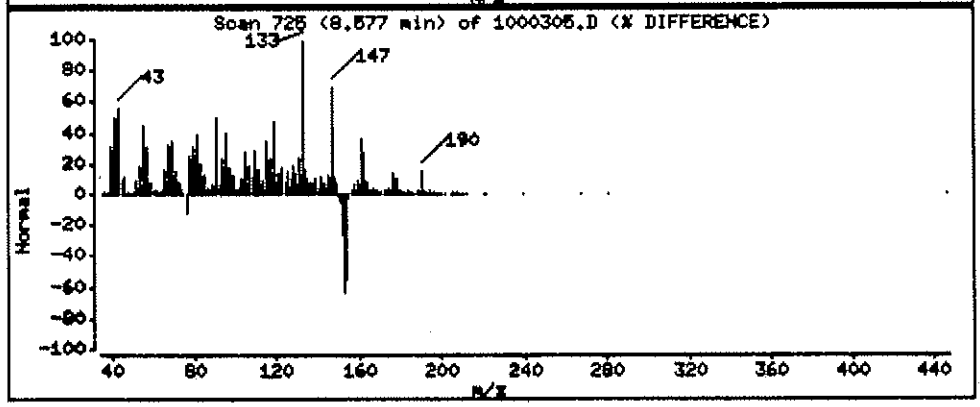
Column phase: fused silica Column diameter: 0.25

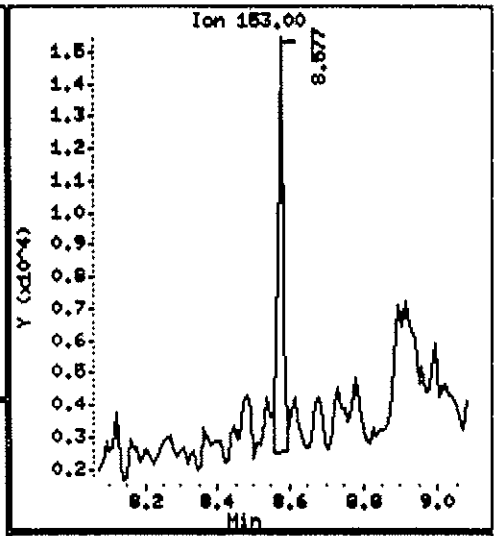
80 Acenaphthene Concentration: 0.1089 UG/L

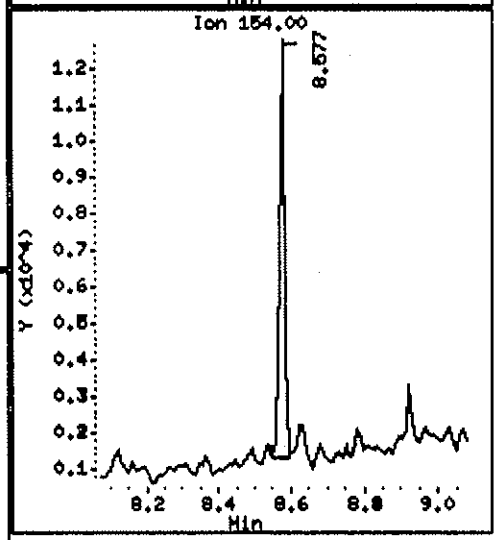












Data File: \\ELAINSHOS\TARGET\chem\bna4.i\102611B4E.b\1000305.D

Date : 26-OCT-2011 23:42

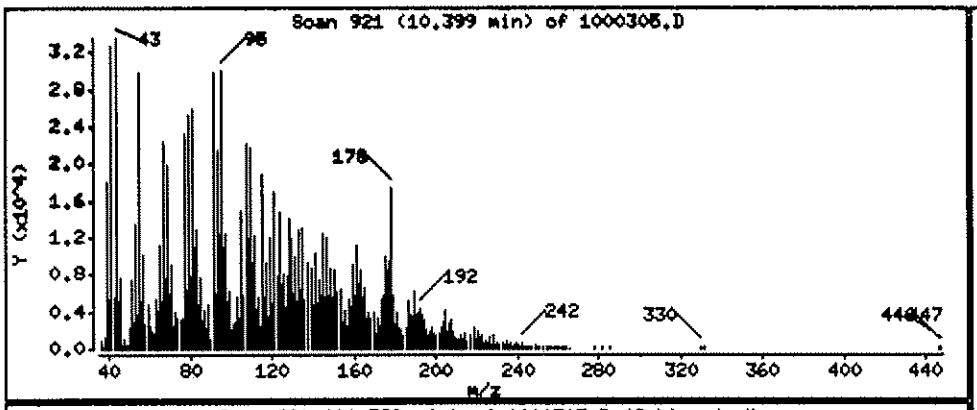
Client ID: FLC-5-MW05-092911 Instrument: bna4.i

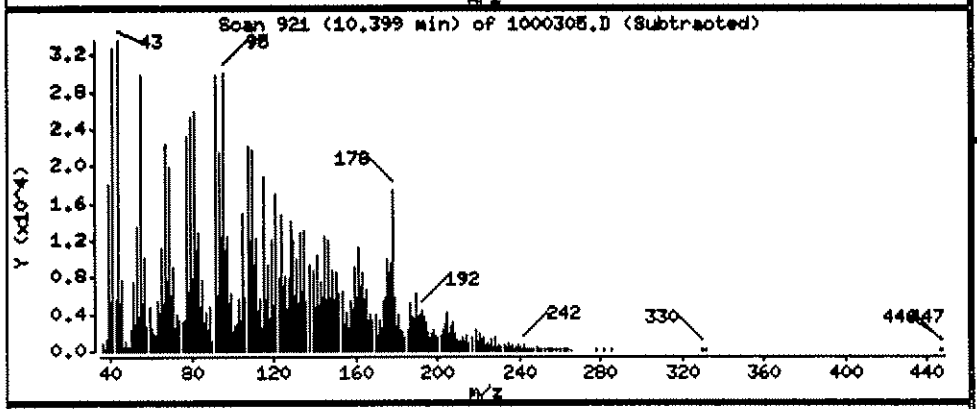
Sample Info: 1110003-05;1;1000;1000;1;UG/L;03-OCT-2011

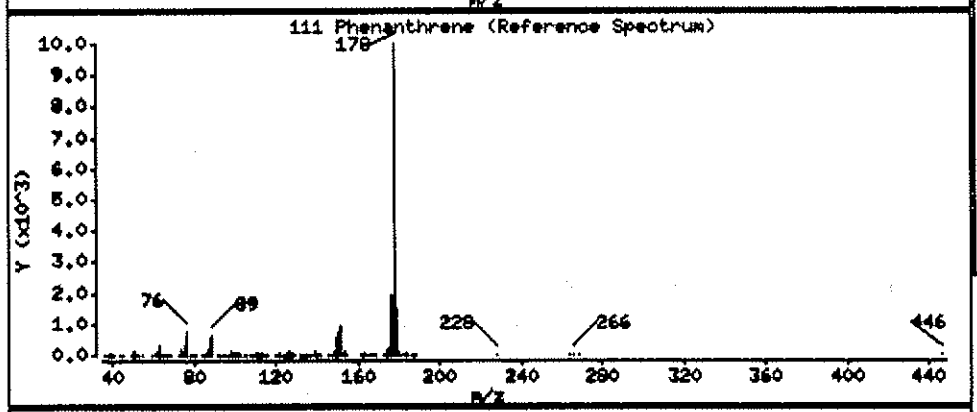
Volume Injected (uL): 1.0 Operator: HEC

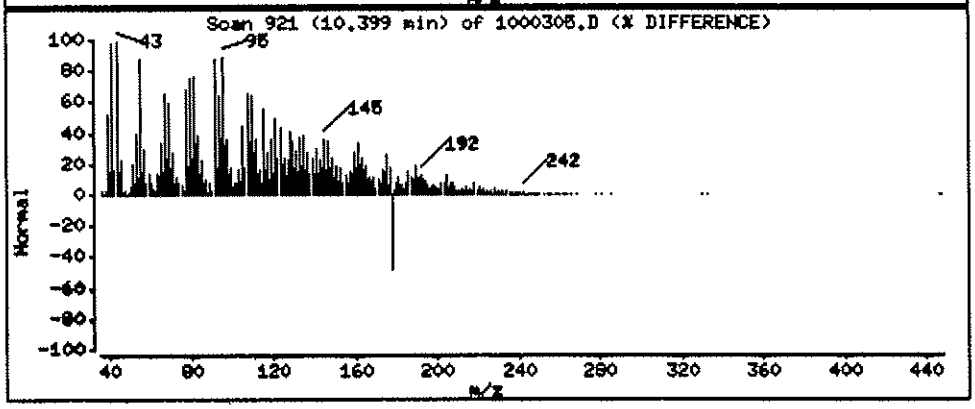
Column phase: fused silica Column diameter: 0.25

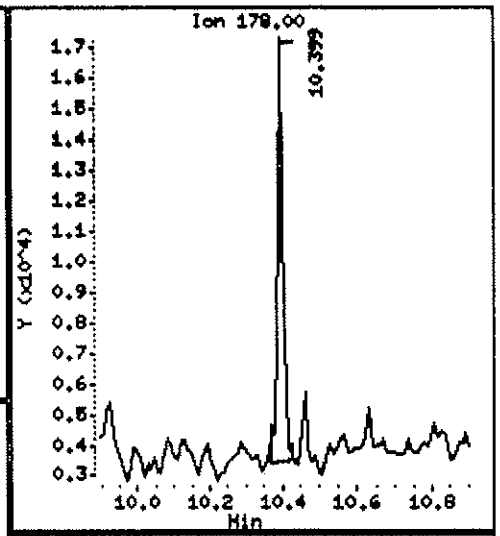
111 Phenanthrene Concentration: 0.09557 UG/L

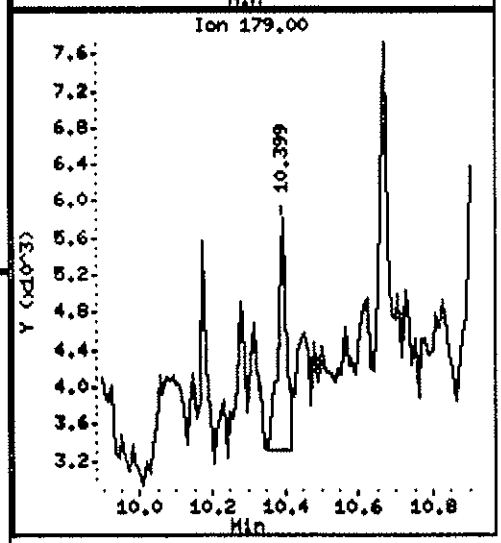












Data File: \\ELAB\HW06\TARGET\chem\bna4.i\102611B4E.b\1000305.D

Date : 26-OCT-2011 23:42

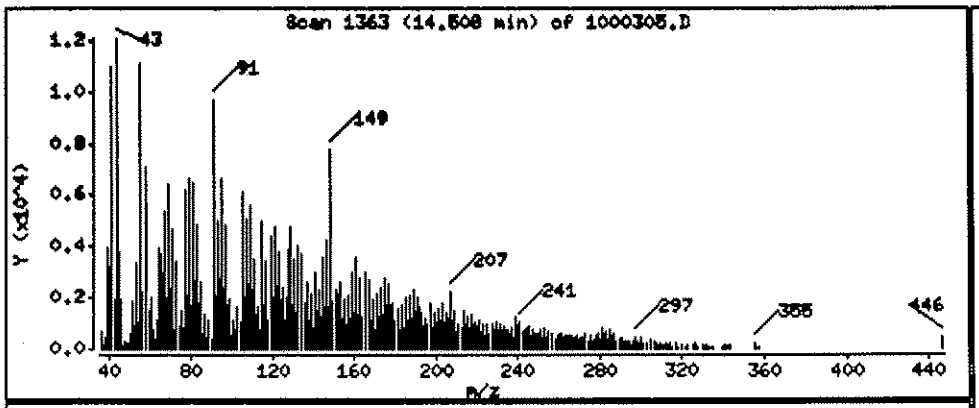
Client ID: FLC-5-HW06-092911 Instrument: bna4.i

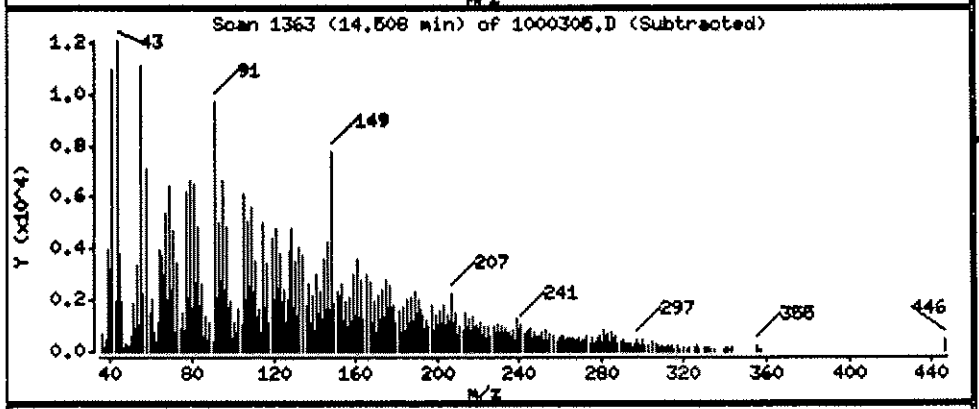
Sample Info: 1110003-05;1;1000;1000;1;UG/L;03-OCT-2011

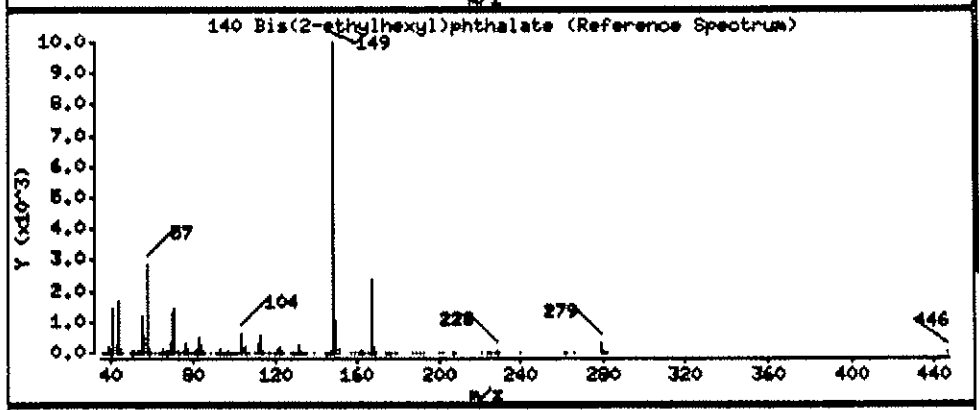
Volume Injected (uL): 1.0 Operator: HEC

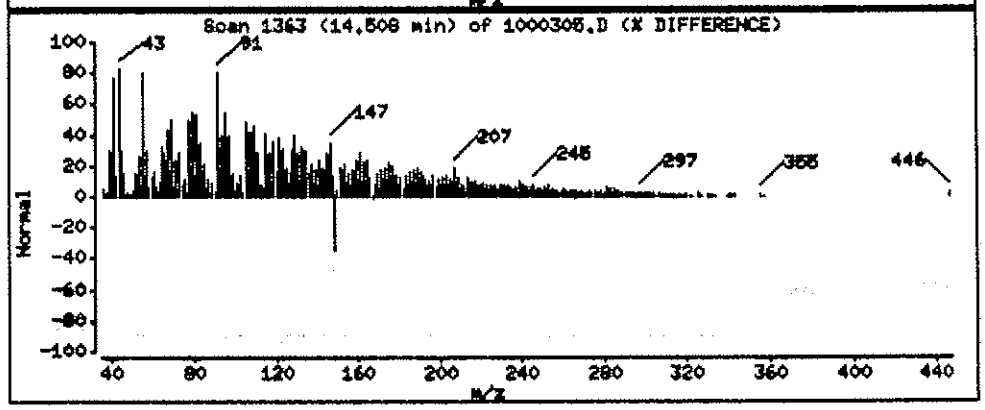
Column phase: fused silica Column diameter: 0.25

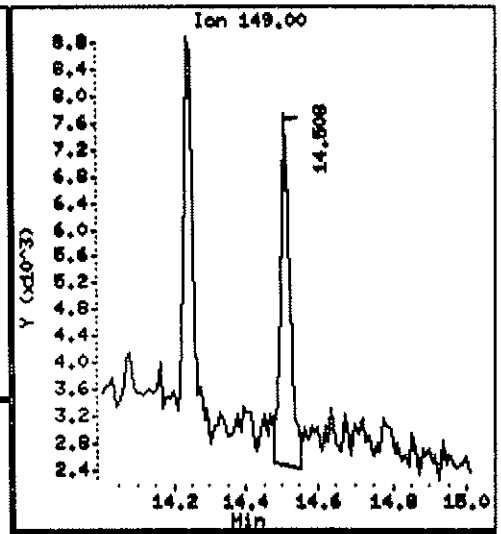
140 Bis(2-ethylhexyl)phthalate Concentration: 0.1232 UG/L

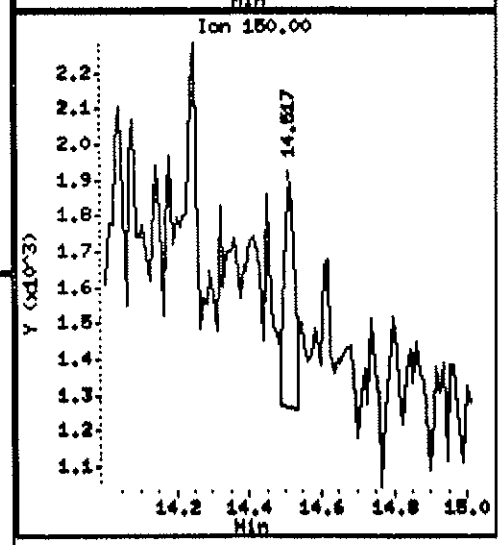












Data File: \\ELABNSH05\TARGET\chem\bna4.i\102611B4E.b\1000307.D
Report Date: 28-Oct-2011 10:41

Laboratory Name

J.H. 11.1.11

Data file : \\ELABNSH05\TARGET\chem\bna4.i\102611B4E.b\1000307.D
Lab Smp Id: 1110003-07 Client Smp ID: FLC-5-MW04-092911
Inj Date : 27-OCT-2011 00:11 MS Autotune Date: 23-OCT-2011 10:06
Operator : MEC Inst ID: bna4.i
Smp Info : 1110003-07;1;1000;1000;1;UG/L;03-OCT-2011
Misc Info : ;0;;;;1J03003;pahmisc.sub;
Comment :
Method : \\ELABNSH05\TARGET\chem\bna4.i\102611B4E.b\IXBN4LOW.m
Meth Date : 28-Oct-2011 10:39 mcobb Quant Type: ISTD
Cal Date : 24-AUG-2011 18:33 Cal File: SEQ-CAL9.D
Als bottle: 28
Dil Factor: 1.00000
Integrator: HP RTE Compound Sublist: pahmisc.sub
Target Version: 4.04
Processing Host: TARGET09_VM

Concentration Formula: Amt * DF * Uf * Vt* Vi/(Amt * Vi)

Name	Value	Description
DF	1.000	Dilution Factor
Uf	1.000	ng unit correction factor
Vt	1000.000	Volume of final extract (uL)
Vi	1.000	Volume injected (uL)
Amt	1000.000	Volume of initial extraction

Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS ON-COLUMN (ng/ul)	FINAL (UG/L)
* 102 Phenanthrene-d10	188	10.371	10.361	(1.000)	141814	1.00000	
$ 74 2-Fluorobiphenyl	172	7.721	7.712	(0.745)	3584239	26.7476	26.75
$ 107 2,4,6-Tribromophenol	330	9.515	9.506	(0.918)	1875710	76.3988	76.40
111 Phenanthrene	178	10.398	10.398	(1.003)	12610	0.07641	0.07641
116 Fluoranthene	202	11.932	11.932	(1.151)	5894	0.03793	0.03793(a)
134 Pyrene	202	12.267	12.267	(1.183)	3185	0.02019	0.02019(a)
* 154 Perylene-d12	264	17.082	17.082	(1.000)	58062	1.00000	
$ 135 Terphenyl-d14	244	12.546	12.537	(1.210)	3841904	39.3787	39.38
140 Bis(2-ethylhexyl)phthalate	149	14.517	14.507	(0.850)	9778	0.10199	0.1020

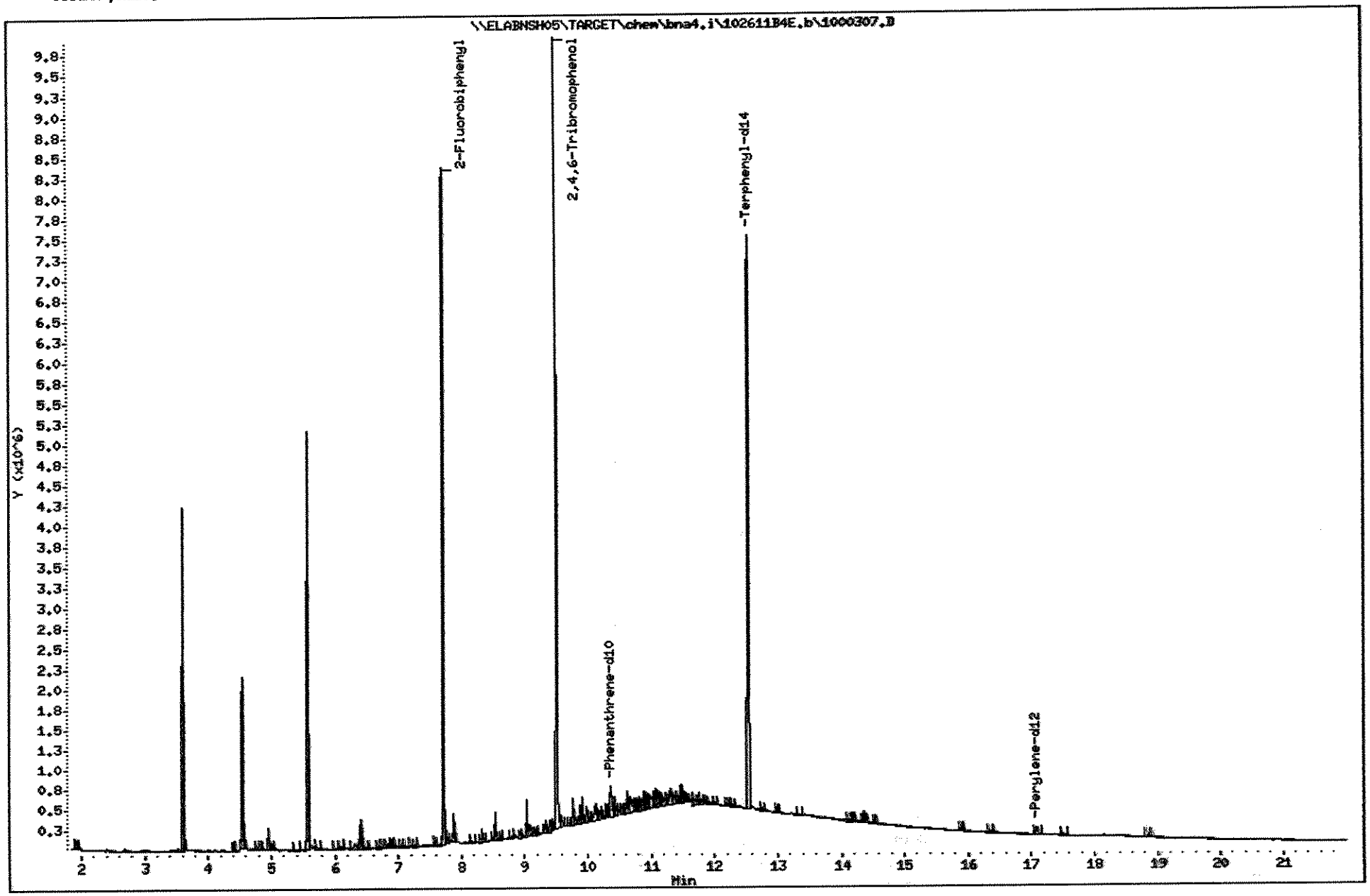
QC Flag Legend

a - Target compound detected but, quantitated amount
Below Limit Of Quantitation(BLOQ).

MEC
10/28/11

Data File: \\ELABNSH05\TARGET\chem\bna4.i\102611B4E.b\1000307.D
Date : 27-OCT-2011 00:11
Client ID: FLC-5-MW04-092911
Sample Info: 1110003-07;1;1000;1000;1;UG/L;03-OCT-2011
Volume Injected (uL): 1.0
Column phase: fused silica

Instrument: bna4.i
Operator: MEC
Column diameter: 0.25



Data File: \\ELAINSHOB\TARGET\chem\bna4.i\10261134E.b\1000307.D

Date : 27-OCT-2011 00:11

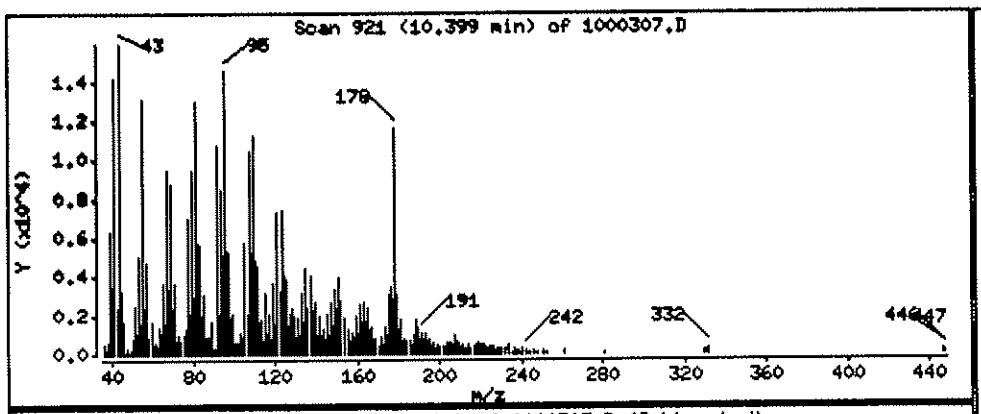
Client ID: FLC-5-HW04-092911 Instrument: bna4.i

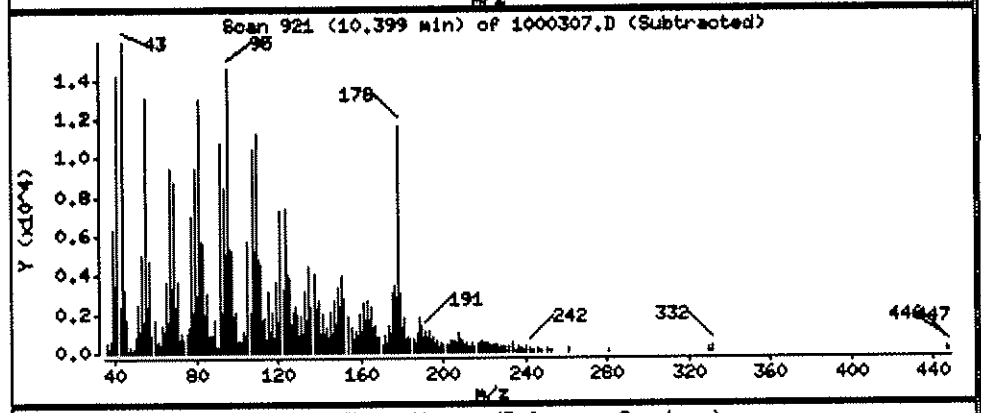
Sample Info: 1110003-07;1;1000;1000;1;UG/L;03-OCT-2011

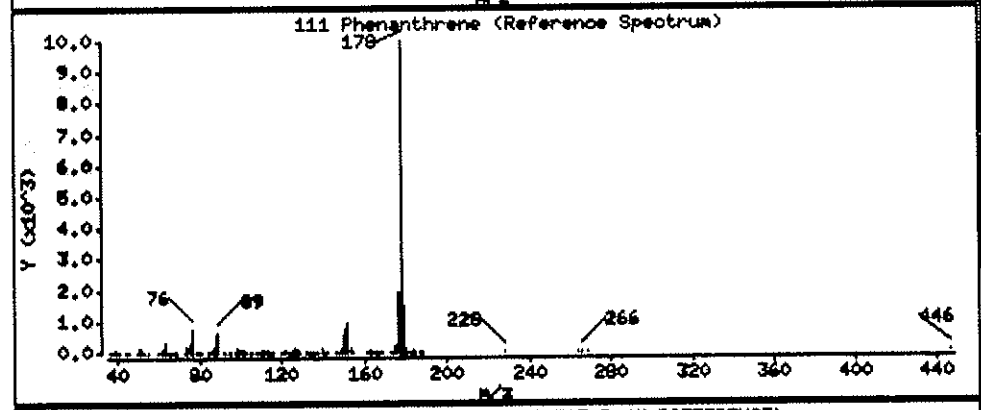
Volume Injected (uL): 1.0 Operator: MEC

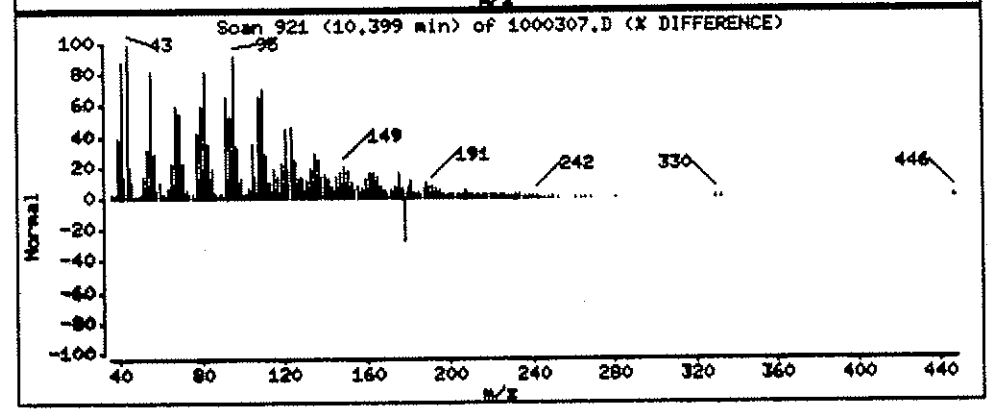
Column phase: fused silica Column diameter: 0.25

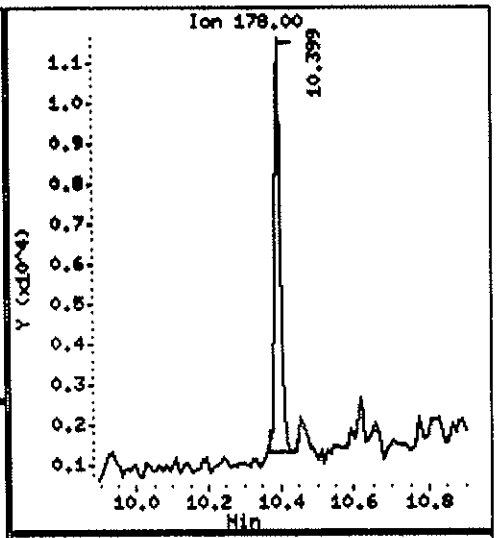
111 Phenanthrene Concentration: 0.07641 UG/L

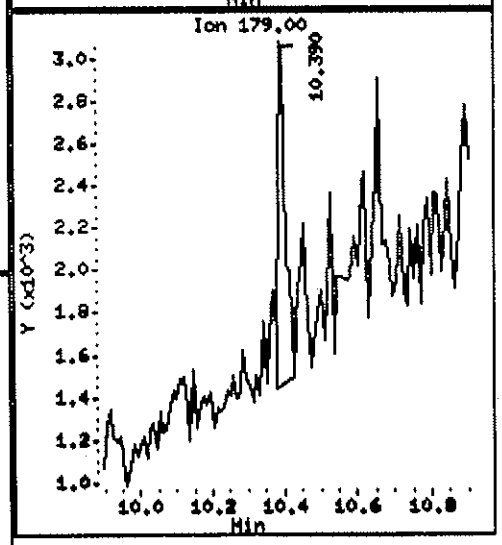












Data File: \\ELAINSHOS\TARGET\chem\bna4.i\10361134E.b\1000307.D

Date : 27-OCT-2011 00:11

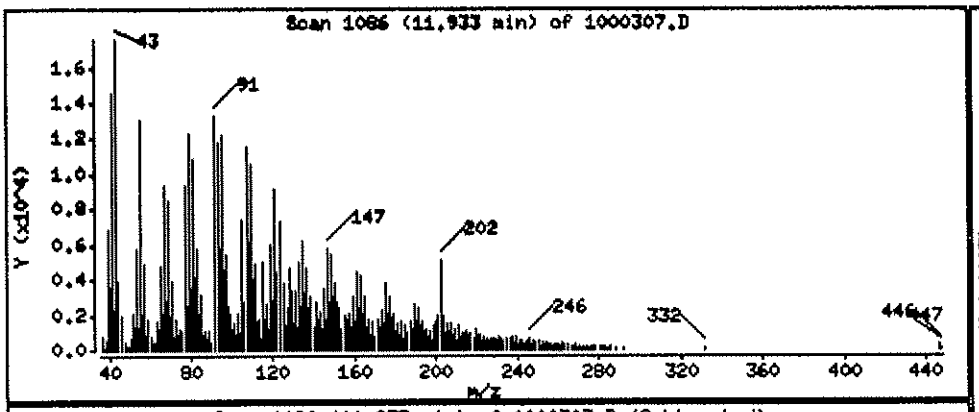
Client ID: FLC-5-HW04-092911 Instrument: bna4.i

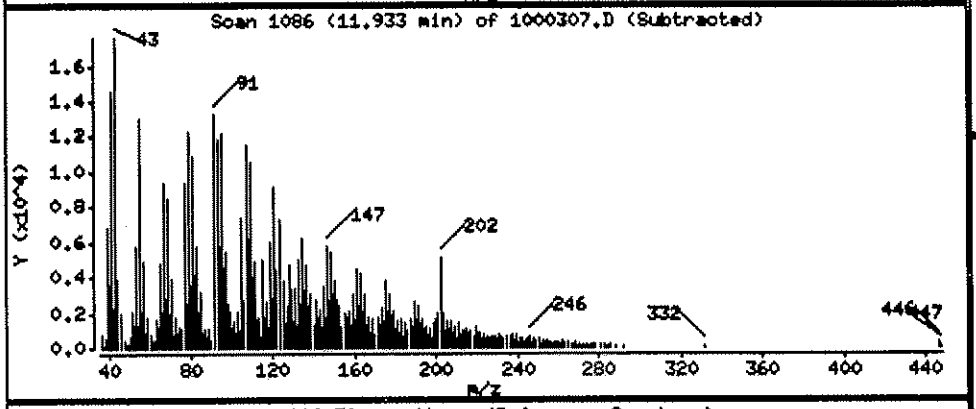
Sample Info: 1110003-07;1;1000;1000;1;UG/L;03-OCT-2011

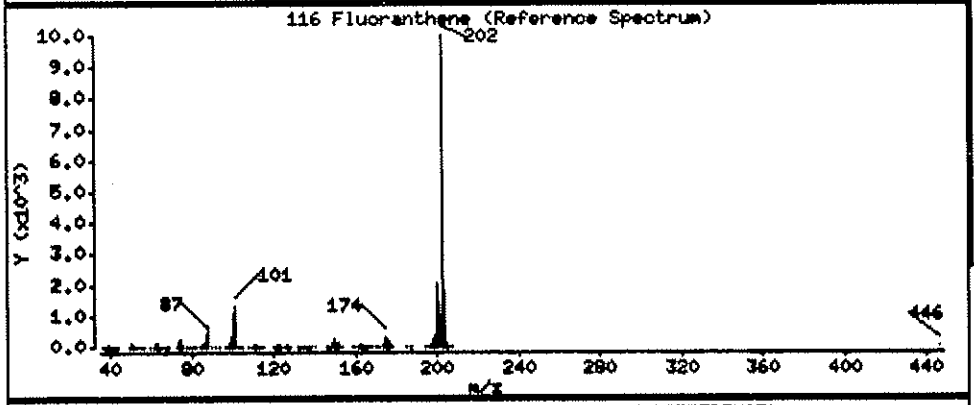
Volume Injected (uL): 1.0 Operator: HEC

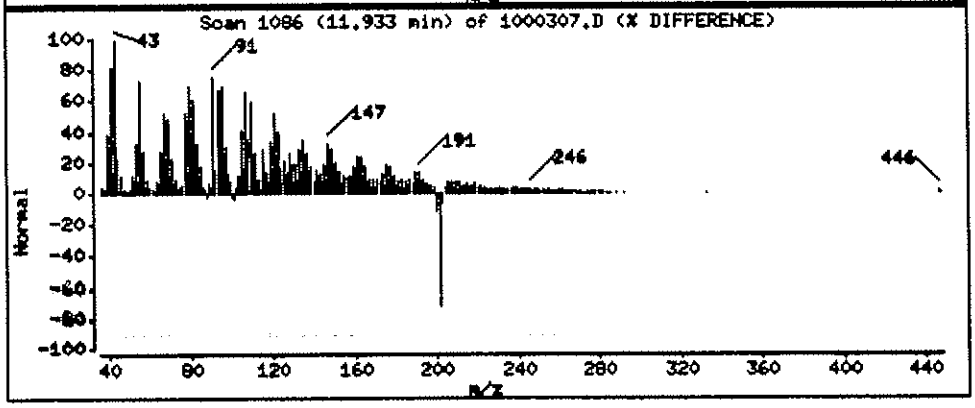
Column phase: fused silica Column diameter: 0.25

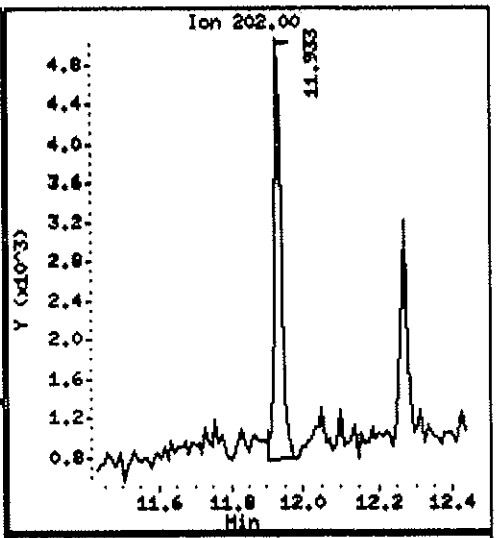
116 Fluoranthene Concentration: 0.03793 UG/L

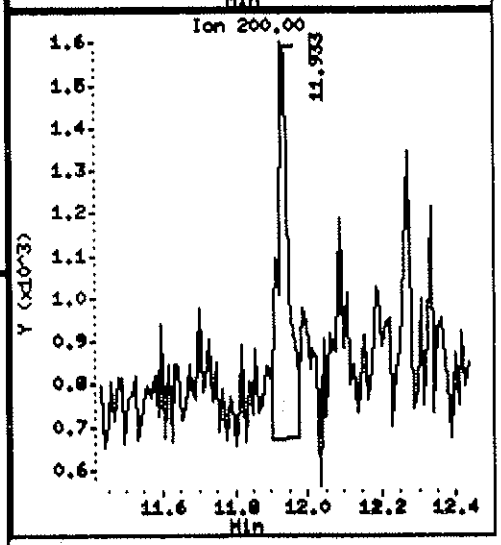












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Date : 27-OCT-2011 00:11

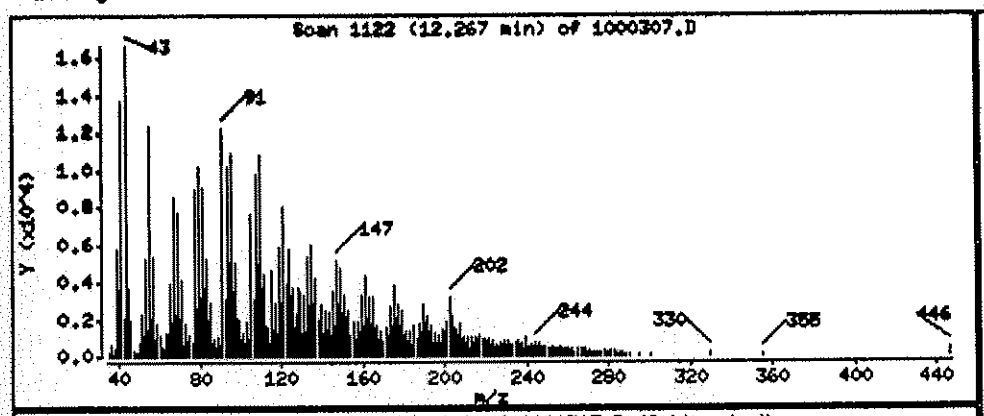
Client ID: FLC-5-HW04-092911 Instrument: bna4.i

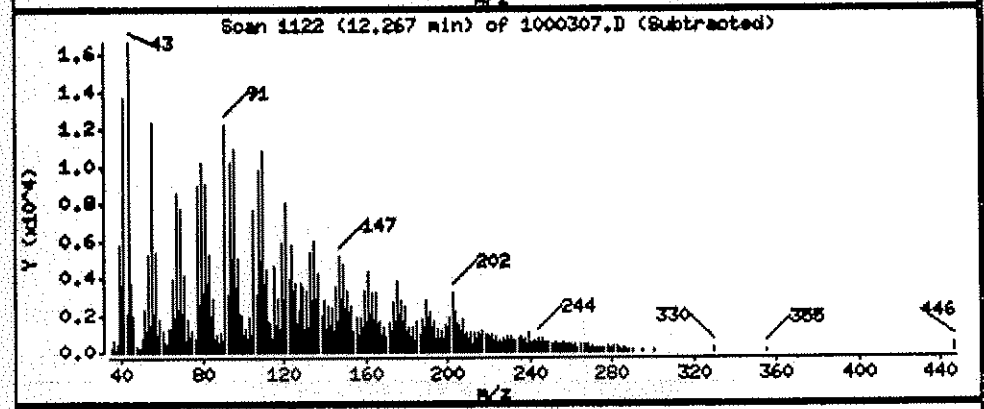
Sample Info: 1110003-07;1;1000;1000;1;UG/L;03-OCT-2011

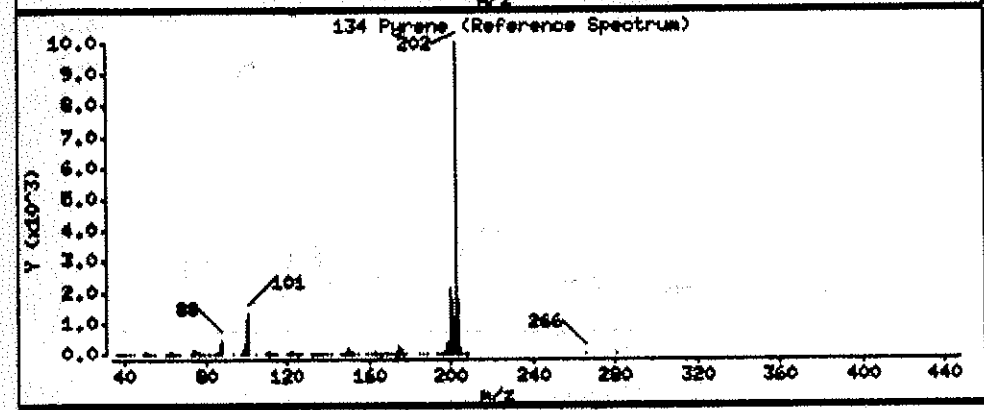
Volume Injected (uL): 1.0 Operator: HEC

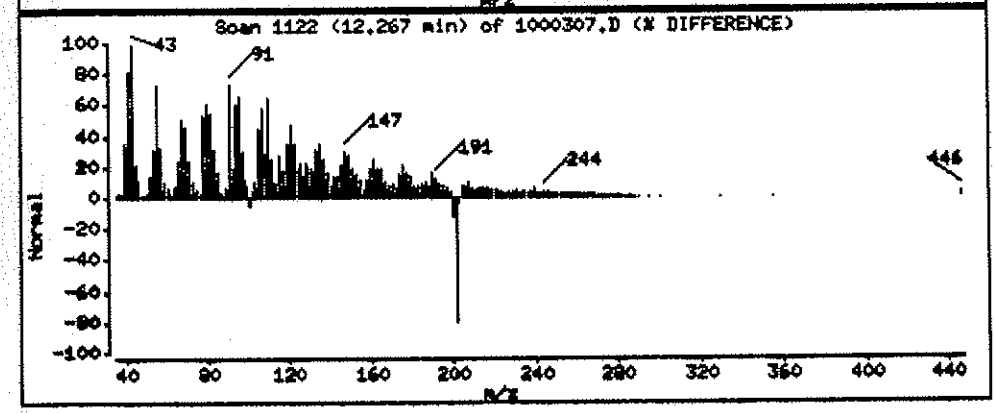
Column phase: fused silica Column diameter: 0.25

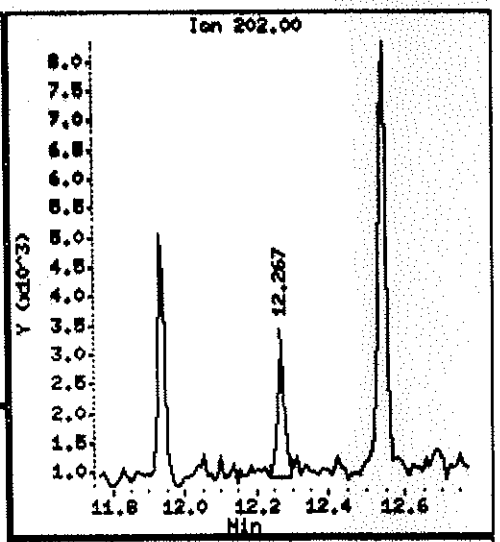
134 Pyrene Concentration: 0.02019 UG/L

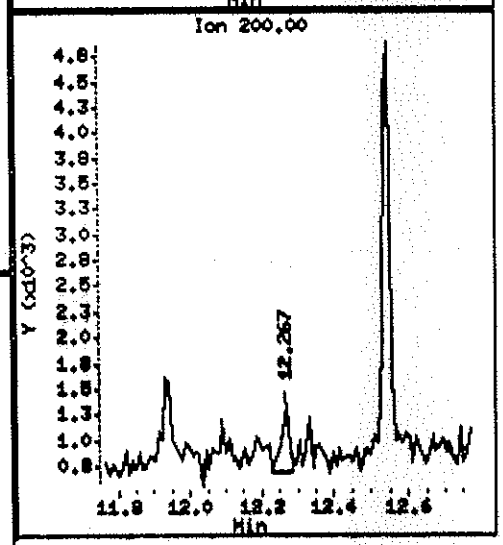












Data File: \\ELAINSHOB\TARGET\chem\bna4.i\10261184E.b\1000307.D

Date : 27-OCT-2011 00:11

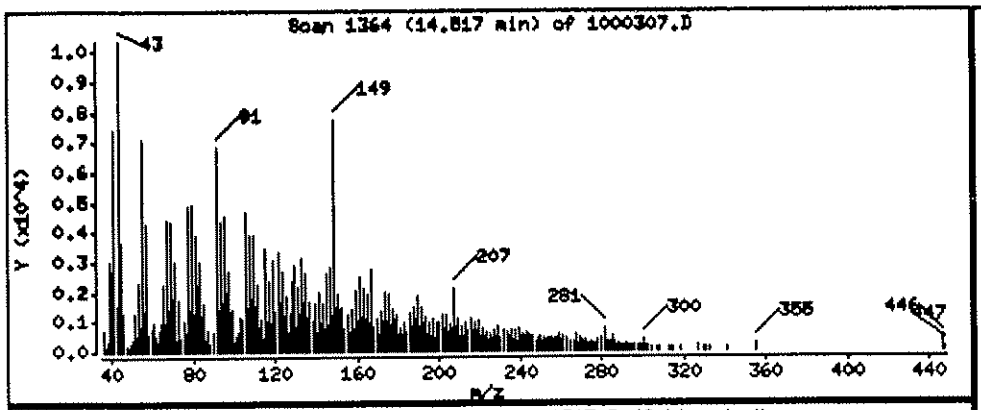
Client ID: FLC-5-HW04-092911 Instrument: bna4.i

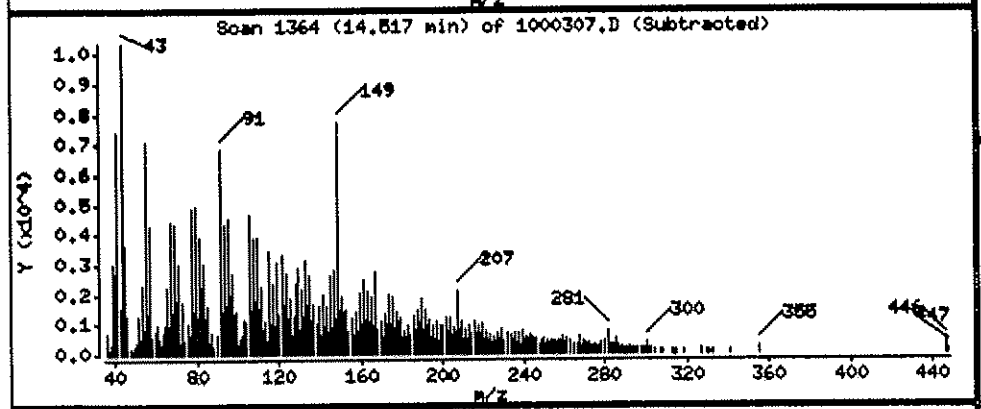
Sample Info: 1110003-07;1;1000;1000;1;UG/L;03-OCT-2011

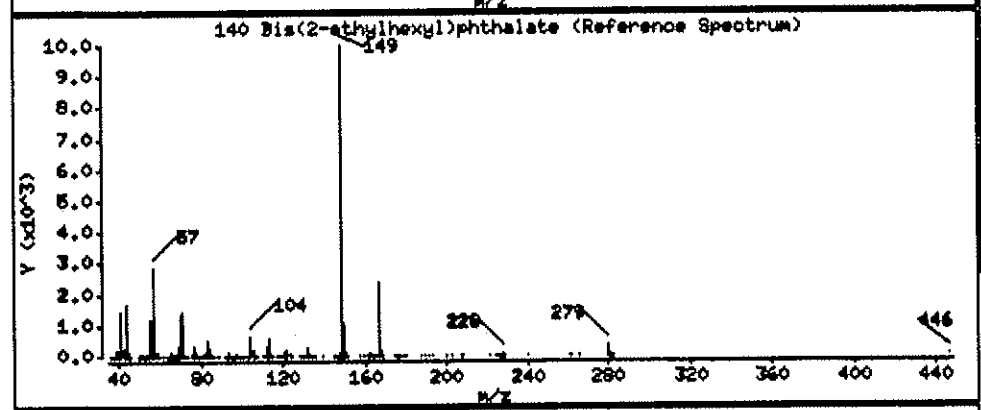
Volume Injected (uL): 1.0 Operator: HEC

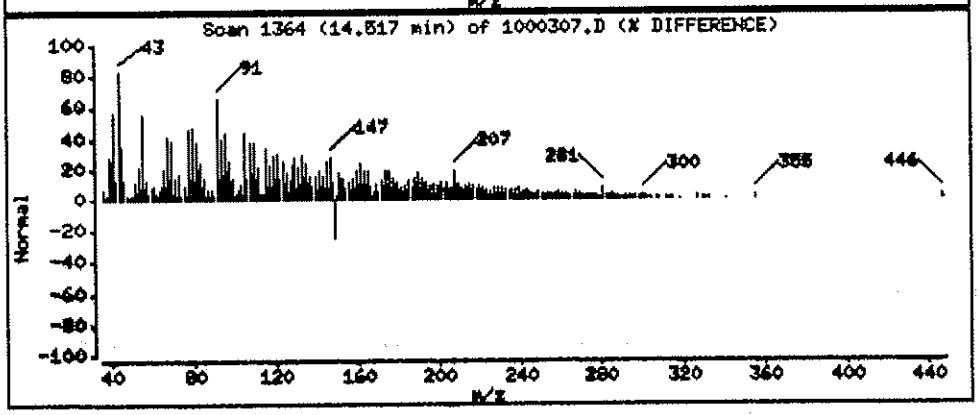
Column phase: fused silica Column diameter: 0.25

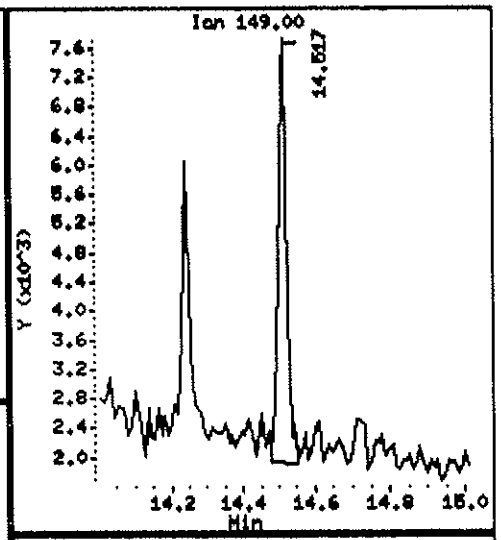
140 Bis(2-ethylhexyl)phthalate Concentration: 0.1020 UG/L

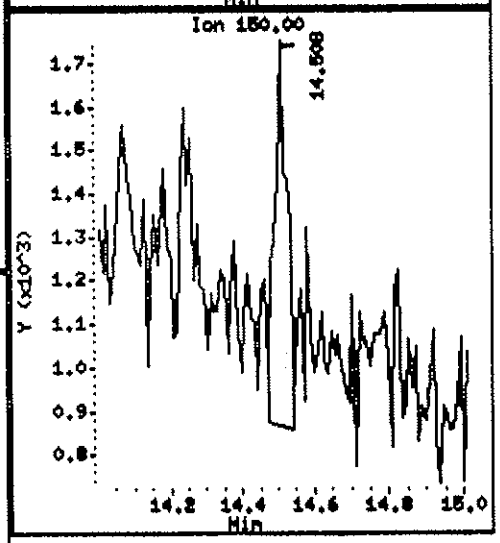












Data File: \\ELABNSH05\TARGET\chem\bna4.i\102611B4E.b\1000309.D
Report Date: 28-Oct-2011 10:41

Laboratory Name

11.1.11

Data file : \\ELABNSH05\TARGET\chem\bna4.i\102611B4E.b\1000309.D
Lab Smp Id: 1110003-09 Client Smp ID: FLC-5-MW03-092911
Inj Date : 27-OCT-2011 00:41 MS Autotune Date: 23-OCT-2011 10:06
Operator : MEC Inst ID: bna4.i
Smp Info : 1110003-09;1;1000;1000;1;UG/L;03-OCT-2011
Misc Info : ;0;;;;1J03003;pahmisc.sub;
Comment :
Method : \\ELABNSH05\TARGET\chem\bna4.i\102611B4E.b\IXBN4LOW.m
Meth Date : 28-Oct-2011 10:39 mcobb Quant Type: ISTD
Cal Date : 24-AUG-2011 18:33 Cal File: SEQ-CAL9.D
Als bottle: 29
Dil Factor: 1.00000
Integrator: HP RTE Compound Sublist: pahmisc.sub
Target Version: 4.04
Processing Host: TARGET09_VM

Concentration Formula: Amt * DF * Uf * Vt* Vi/(Amt * Vi)

Name	Value	Description
DF	1.000	Dilution Factor
Uf	1.000	ng unit correction factor
Vt	1000.000	Volume of final extract (uL)
Vi	1.000	Volume injected (uL)
Amt	1000.000	Volume of initial extraction

Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS ON-COLUMN (ng/ul)	FINAL (UG/L)
* 102 Phenanthrene-d10	188	10.370	10.361	(1.000)	150903	1.00000	
$ 74 2-Fluorobiphenyl	172	7.712	7.712	(0.744)	1216522	8.53156	8.532
$ 107 2,4,6-Tribromophenol	330	9.515	9.506	(0.918)	506808	19.3993	19.40
111 Phenanthrene	178	10.398	10.398	(1.003)	18953	0.10793	0.1079
116 Fluoranthene	202	11.932	11.932	(1.151)	7304	0.04417	0.04417(a)
134 Pyrene	202	12.267	12.267	(1.183)	5199	0.03097	0.03097(a)
* 154 Perylene-d12	264	17.082	17.082	(1.000)	55234	1.00000	
$ 135 Terphenyl-d14	244	12.537	12.537	(1.209)	1246982	13.0288	13.03
140 Bis(2-ethylhexyl)phthalate	149	14.507	14.507	(0.849)	11990	0.13147	0.1315

QC Flag Legend

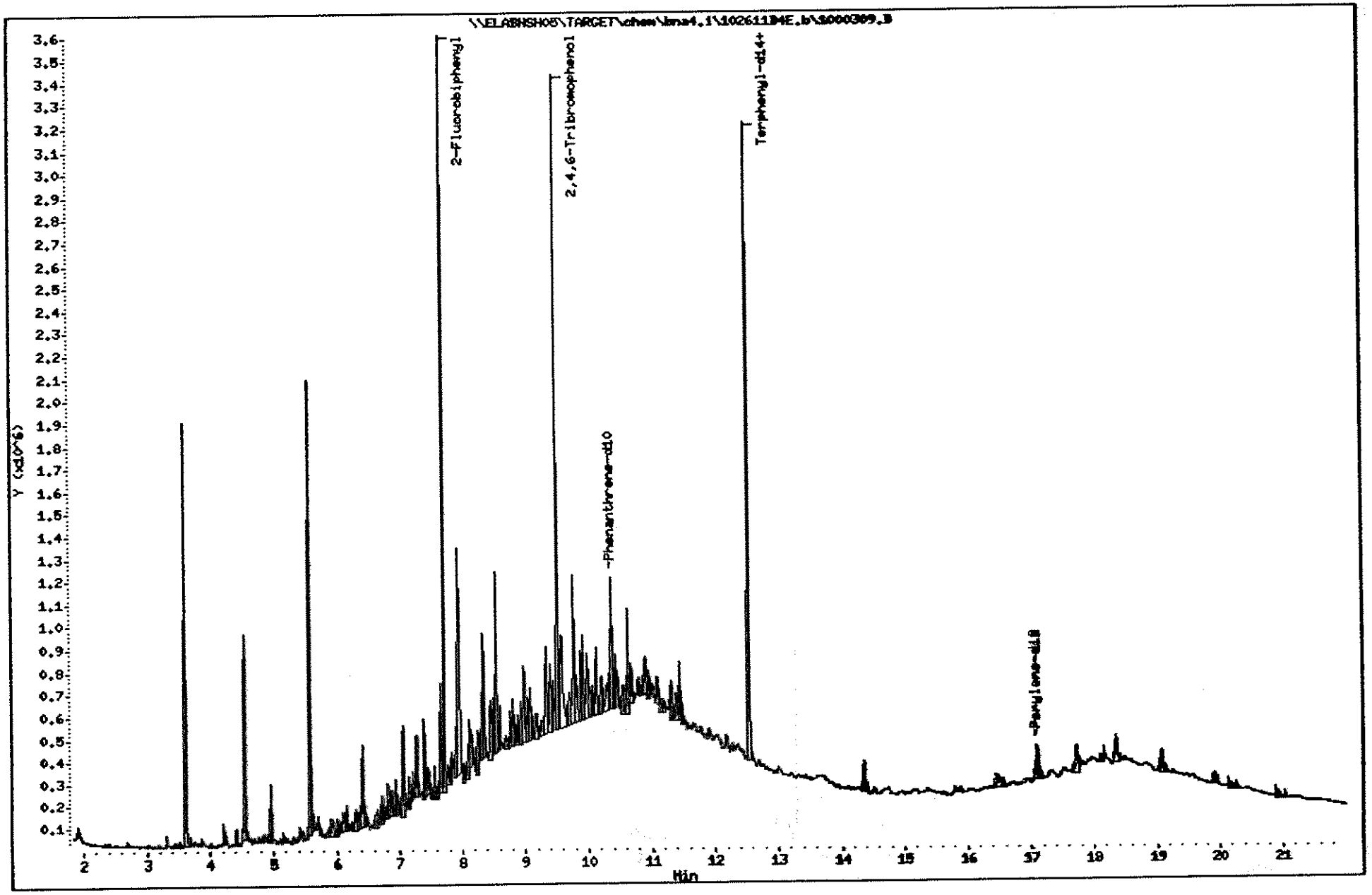
a - Target compound detected but, quantitated amount Below Limit Of Quantitation(BLOQ).

MEC
10/28/11

Data File: \\ELABNSH05\TARGET\chem\hms4.i\102611B4E.b\1000309.D
Date : 27-OCT-2011 00:41
Client ID: FLC-5-HM03-092911
Sample Info: 1110003-09;1;1000;1000;1;UE/L;03-OCT-2011
Volume Injected (uL): 1.0
Column phase: fused silica

Instrument: hms4.i

Operator: MEC
Column diameter: 0.25



740

1110003

Data File: \\ELAB\HSMS\TARGET\chem\bna4.i\10841134E.b\1000309.D

Date : 27-OCT-2011 00:41

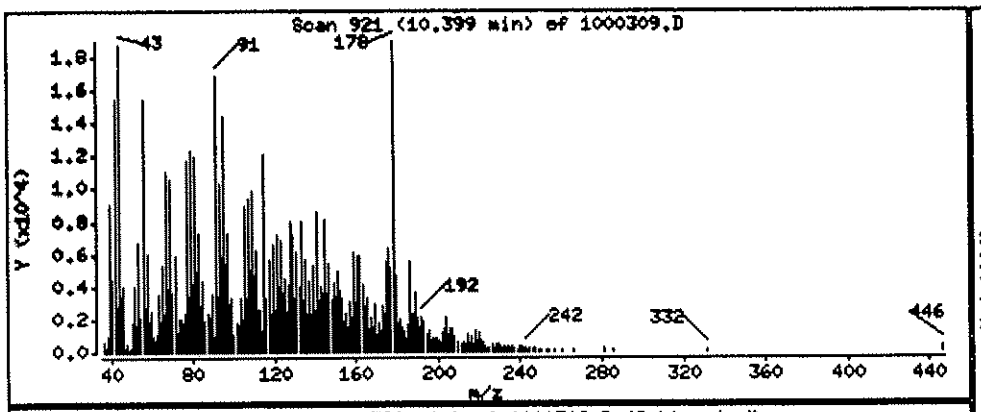
Client ID: FLC-5-HS03-092911 Instrument: bna4.i

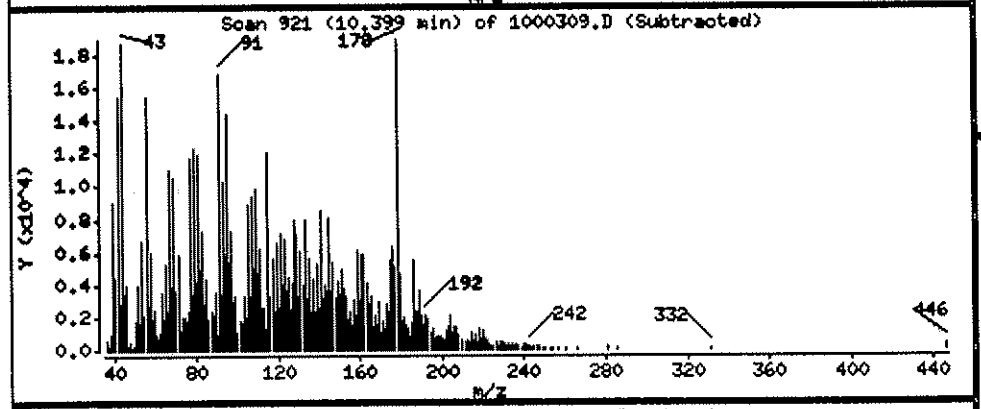
Sample Info: 1110003-09;1;1000;1000;1;UG/L;03-OCT-2011

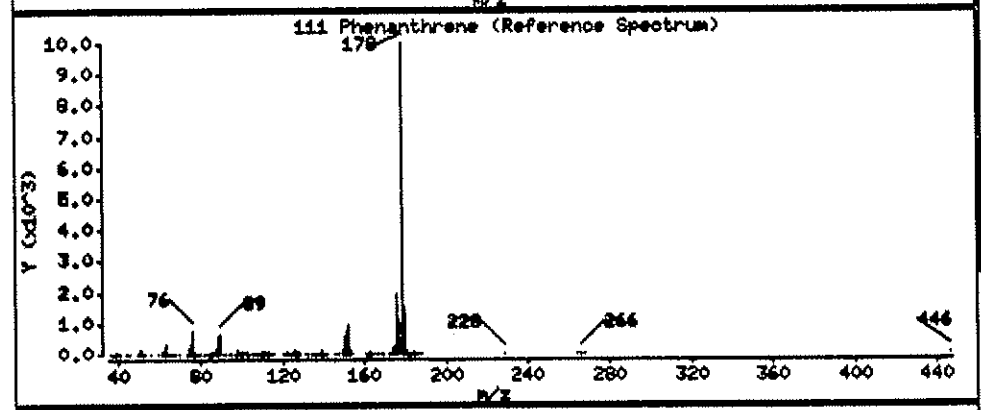
Volume Injected (uL): 1.0 Operator: HEC

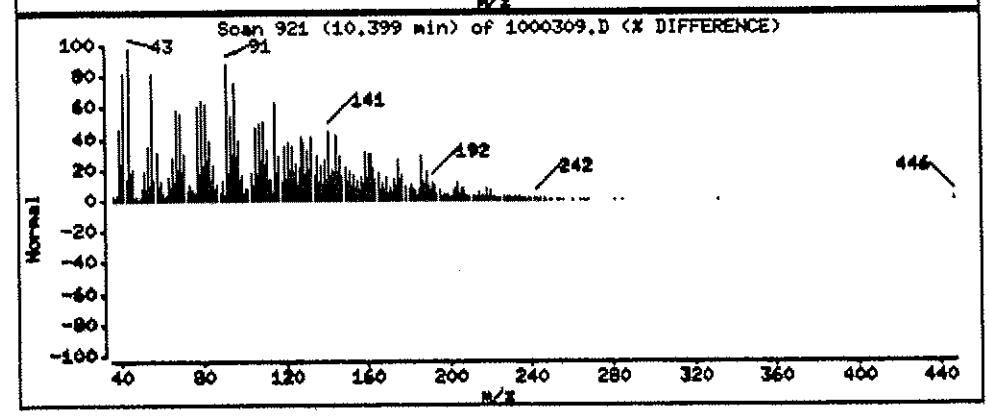
Column phase: fused silica Column diameter: 0.25

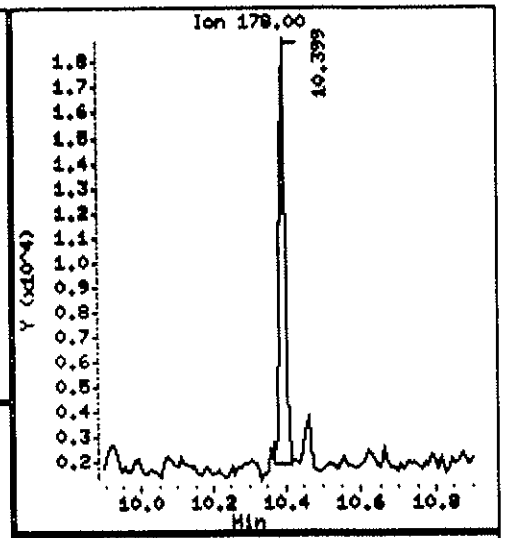
111 Phenanthrene Concentration: 0.1079 UG/L

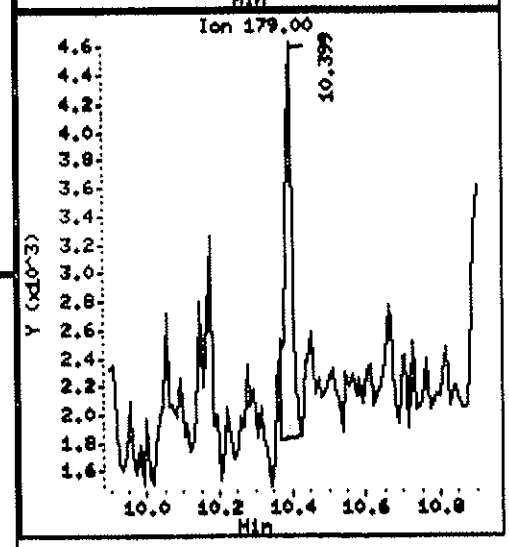












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Date : 27-OCT-2011 00:41

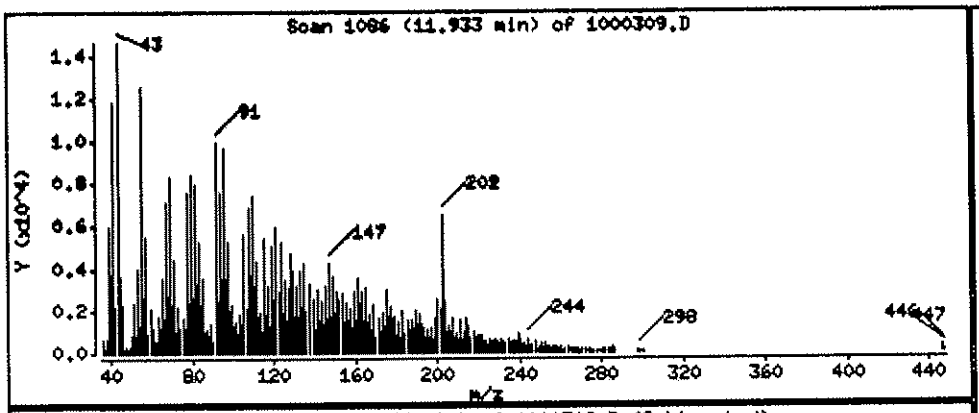
Client ID: FLC-5-HW03-092911 Instrument: bna4.i

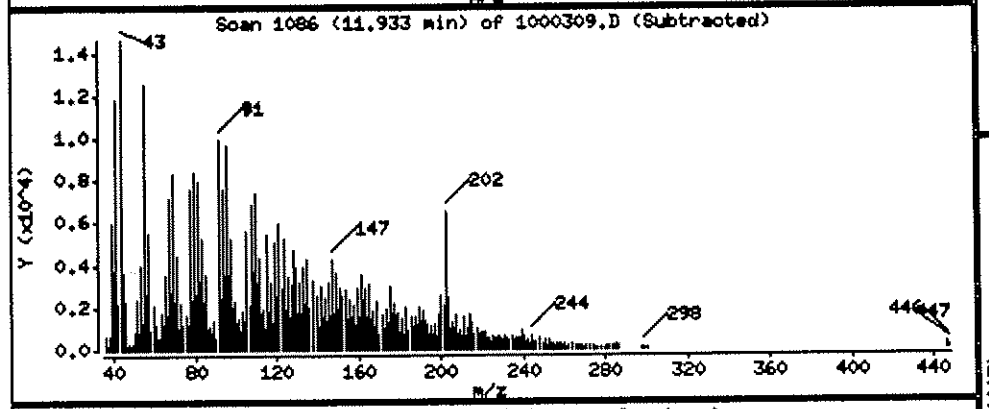
Sample Info: 1110003-09;1;1000;1000;1;UG/L;03-OCT-2011

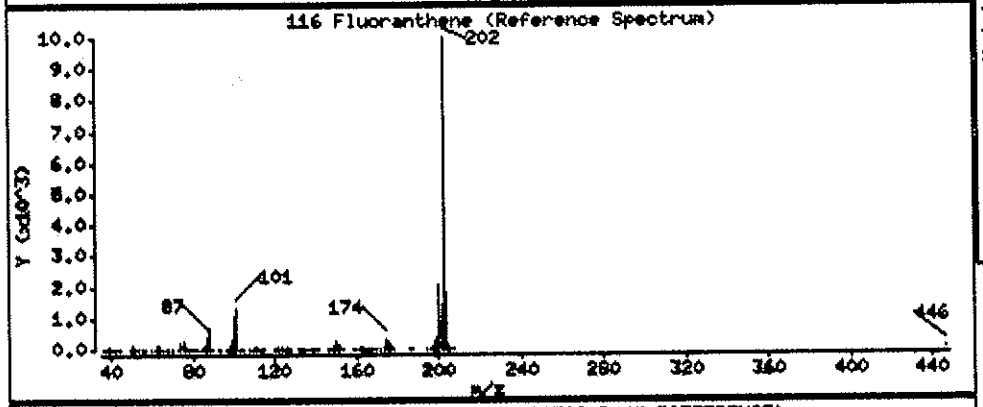
Volume Injected (uL): 1.0 Operator: HEC

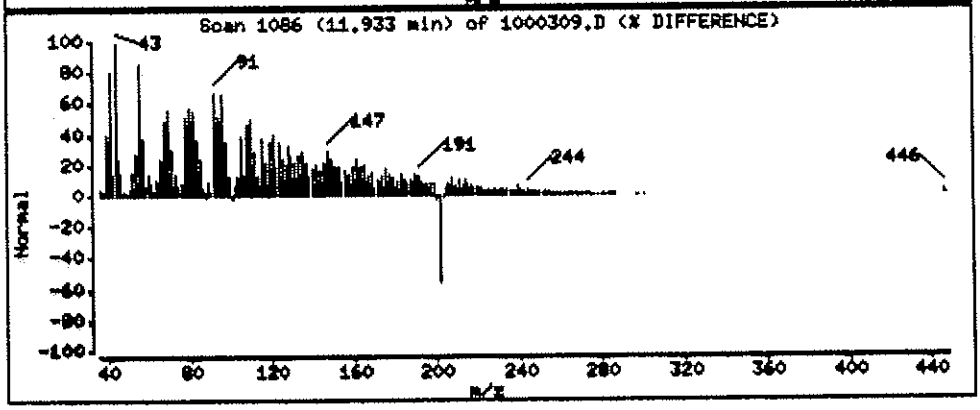
Column phase: fused silica Column diameter: 0.25

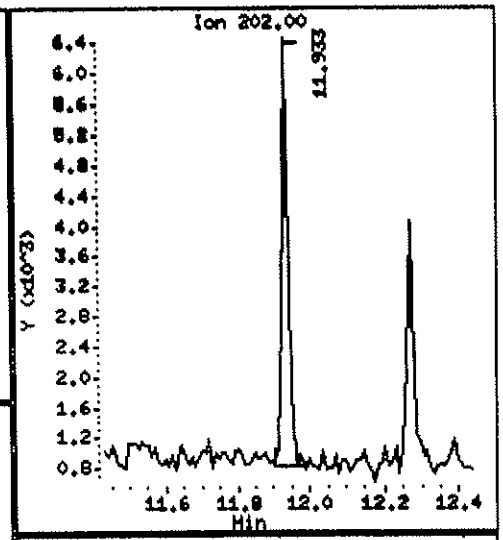
116 Fluoranthene Concentration: 0.04417 UG/L

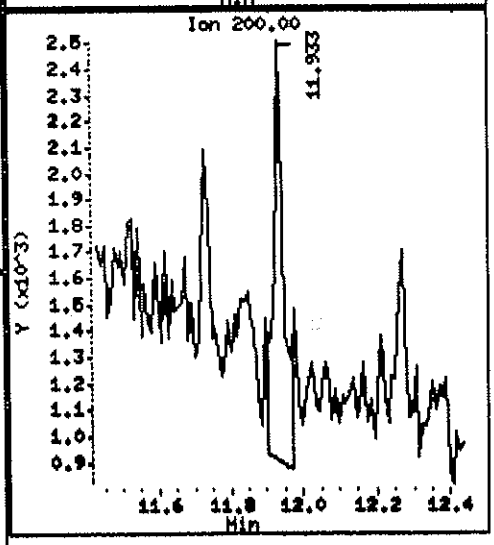












Data File: \\ELAINGNOE\TARGET\chem\bna4.i\102611B4E.b\1000309.D

Date : 27-OCT-2011 00:41

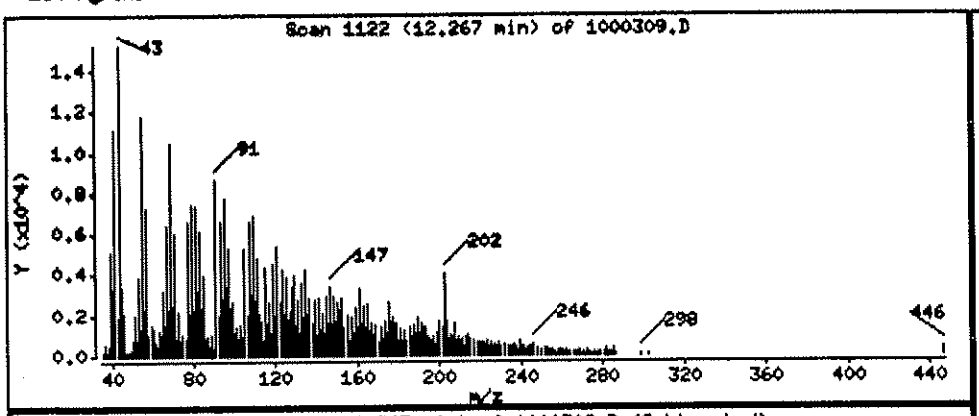
Client ID: FLC-5-HW03-092911 Instrument: bna4.i

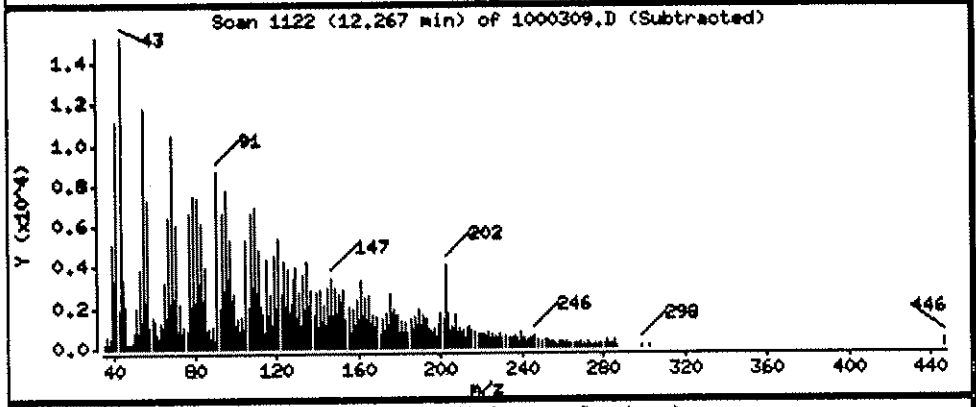
Sample Info: 1110003-09;1;1000;1000;1;UG/L;03-OCT-2011

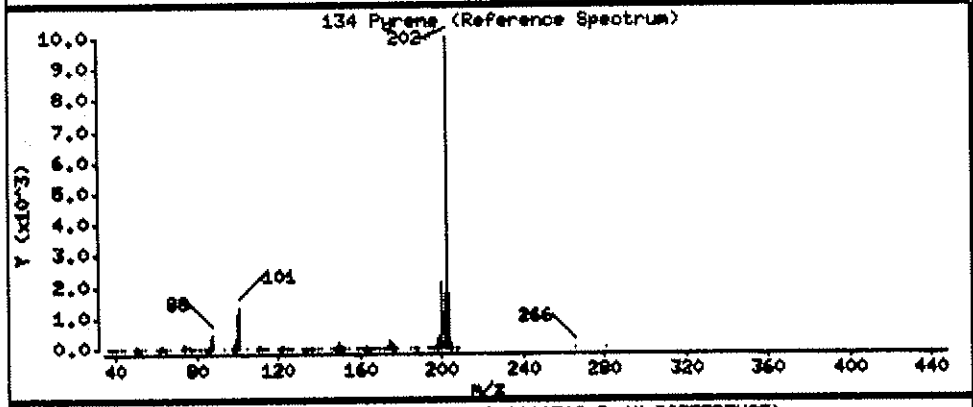
Volume Injected (uL): 1.0 Operator: MEC

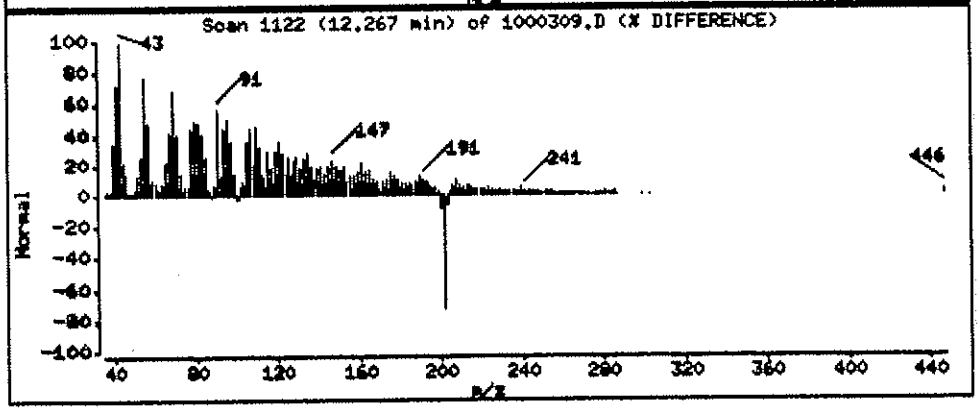
Column phase: Fused silica Column diameter: 0.25

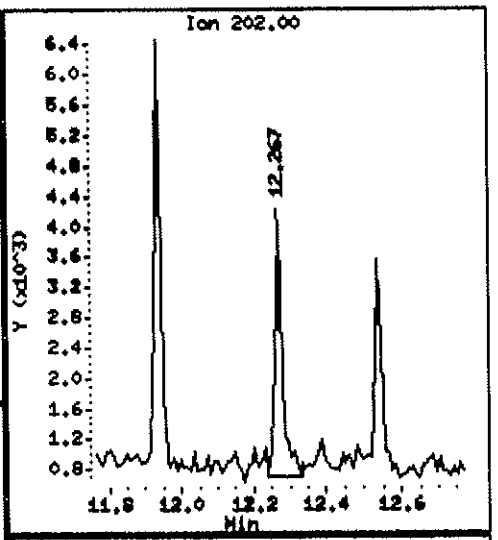
134 Pyrene Concentration: 0.03097 UG/L

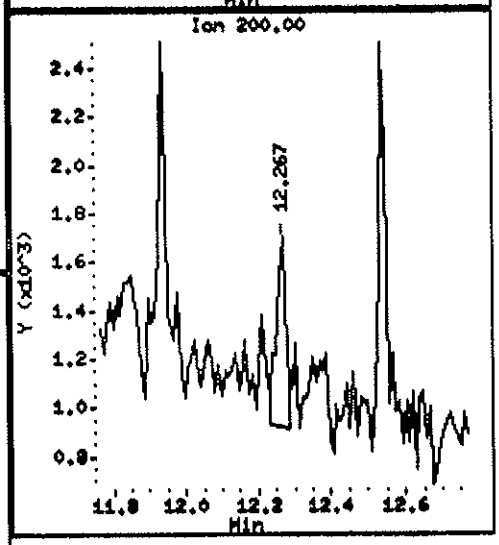












Data File: \\ELAINSHOD\TARGET\chem\bna4.i\102611B4E.b\1000309.D

Date : 27-OCT-2011 00:41

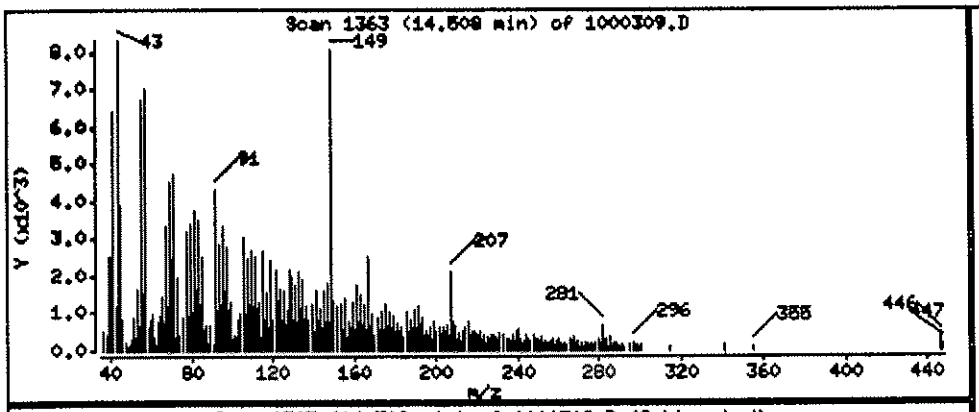
Client ID: FLC-5-HW03-092911 Instrument: bna4.i

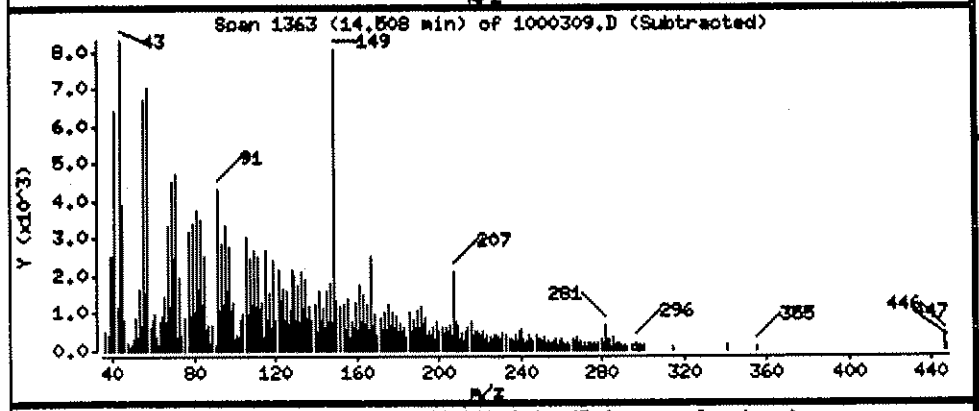
Sample Info: 1110003-09;1;1000;1000;1;UG/L;03-OCT-2011

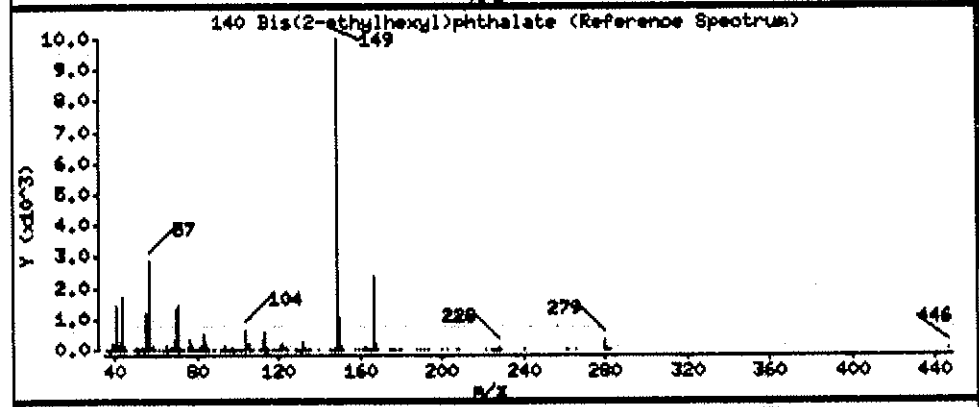
Volume Injected (uL): 1.0 Operator: MEC

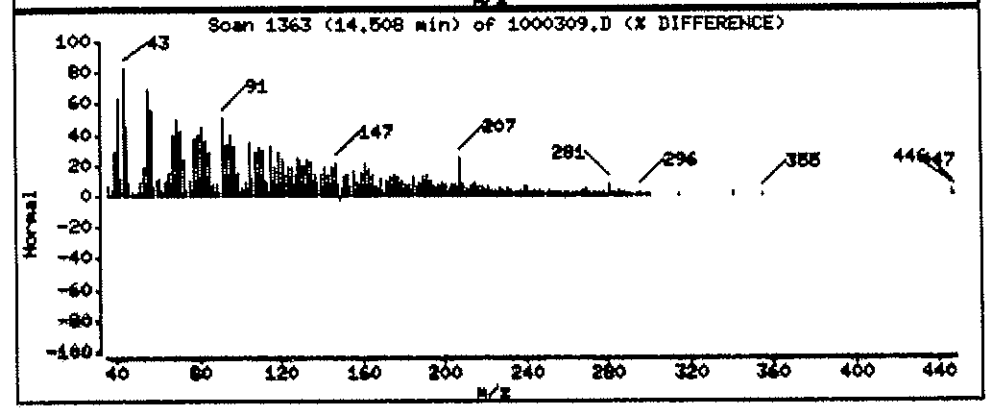
Column phase: fused silica Column diameter: 0.25

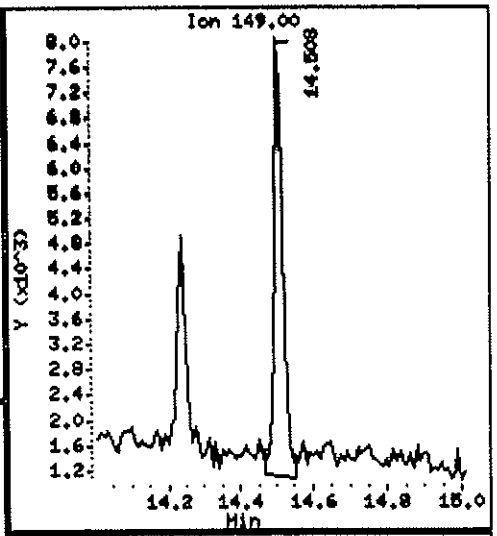
140 Bis(2-ethylhexyl)phthalate Concentration: 0.1315 UG/L

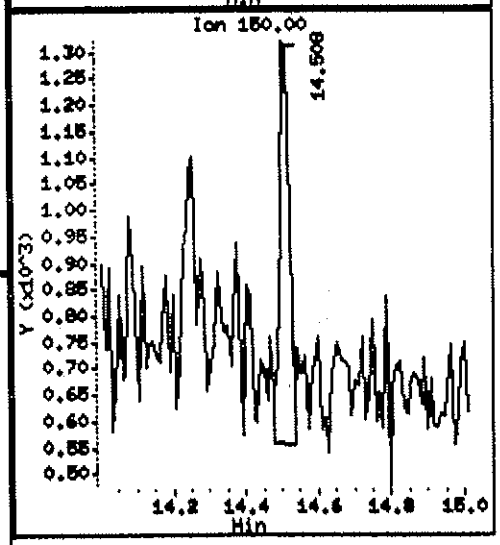












Data File: \\ELABNSH05\TARGET\chem\bna4.i\102611B4E.b\1000311.D
Report Date: 28-Oct-2011 10:41

J.H. 11.1.11

Laboratory Name

Data file : \\ELABNSH05\TARGET\chem\bna4.i\102611B4E.b\1000311.D
Lab Smp Id: 1110003-11 Client Smp ID: FLC-RB02-092911
Inj Date : 27-OCT-2011 01:10 MS Autotune Date: 23-OCT-2011 10:06
Operator : MEC Inst ID: bna4.i
Smp Info : 1110003-11;1;1000;1000;1;UG/L;03-OCT-2011
Misc Info : ;0;;;;1J03003;pahmisc.sub;
Comment :
Method : \\ELABNSH05\TARGET\chem\bna4.i\102611B4E.b\IXBN4LOW.m
Meth Date : 28-Oct-2011 10:39 mcobb Quant Type: ISTD
Cal Date : 24-AUG-2011 18:33 Cal File: SEQ-CAL9.D
Als bottle: 30
Dil Factor: 1.00000
Integrator: HP RTE Compound Sublist: pahmisc.sub
Target Version: 4.04
Processing Host: TARGET09_VM

Concentration Formula: Amt * DF * Uf * Vt* Vi/(Amt * Vi)

Name	Value	Description
DF	1.000	Dilution Factor
Uf	1.000	ng unit correction factor
Vt	1000.000	Volume of final extract (uL)
Vi	1.000	Volume injected (uL)
Amt	1000.000	Volume of initial extraction

Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS ON-COLUMN (ng/ul)	CONCENTRATIONS FINAL (UG/L)
* 102 Phenanthrene-d10	188	10.361	10.361	(1.000)	144737	1.00000	
21 N-Nitroso-di-n-propylamine	70	5.360	5.397	(0.517)	6620	0.12646	0.1264
51 Naphthalene	128	6.429	6.429	(0.620)	11552	0.05362	0.05362
$ 74 2-Fluorobiphenyl	172	7.721	7.712	(0.745)	3814942	27.8942	27.89
84 Dibenzofuran	168	8.790	8.790	(0.848)	3262	0.02104	0.02104(a)
88 Fluorene	166	9.208	9.208	(0.889)	3005	0.02451	0.02451(a)
$ 107 2,4,6-Tribromophenol	330	9.515	9.506	(0.918)	1255662	50.1110	50.11
111 Phenanthrene	178	10.398	10.398	(1.004)	20481	0.12160	0.1216
116 Fluoranthene	202	11.932	11.932	(1.152)	6979	0.04400	0.04400(a)
134 Pyrene	202	12.267	12.267	(1.184)	4328	0.02688	0.02688(a)
* 154 Perylene-d12	264	17.082	17.082	(1.000)	64605	1.00000	
$ 135 Terphenyl-d14	244	12.536	12.537	(1.210)	2998657	32.6656	32.66
140 Bis(2-ethylhexyl)phthalate	149	14.507	14.507	(0.849)	9997	0.09372	0.09372

MEC
10/28/11

Data File: \\ELABNSH05\TARGET\chem\bna4.i\102611B4E.b\1000311.D
Report Date: 28-Oct-2011 10:41

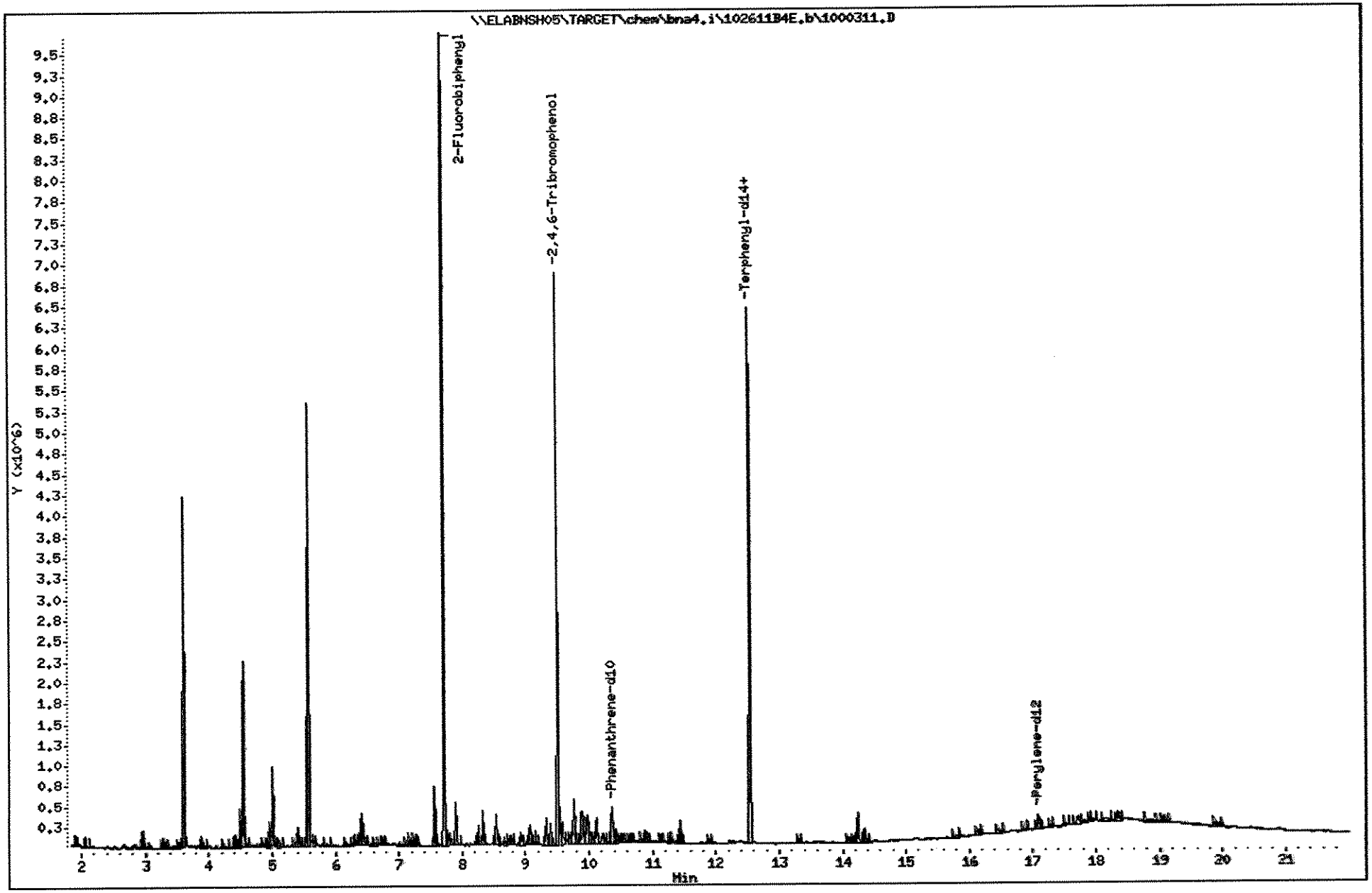
QC Flag Legend

a - Target compound detected but, quantitated amount
Below Limit Of Quantitation(BLOQ).

Data File: \\ELABNSH05\TARGET\chem\bna4.i\102611B4E.b\1000311.D
Date : 27-OCT-2011 01:10
Client ID: FLC-RB02-092911
Sample Info: 1110003-11;1;1000;1000;1;UG/L;03-OCT-2011
Volume Injected (uL): 1.0
Column phase: fused silica

Instrument: bna4.i

Operator: MEC
Column diameter: 0.25



Data File: \\ELABNSHOB\TARGET\chem\bna4.i\102611B4E.b\1000311.D

Date : 27-OCT-2011 01:10

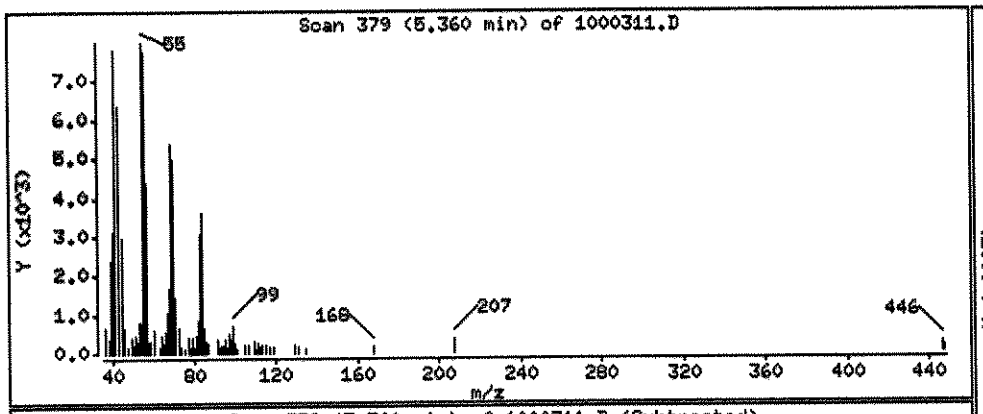
Client ID: FLC-RB02-092911 Instrument: bna4.i

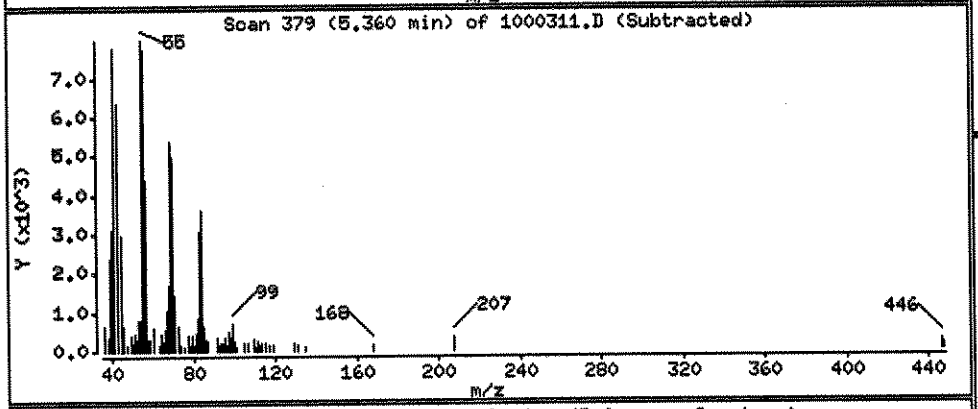
Sample Info: 1110003-11;1;1000;1000;1;UG/L;03-OCT-2011

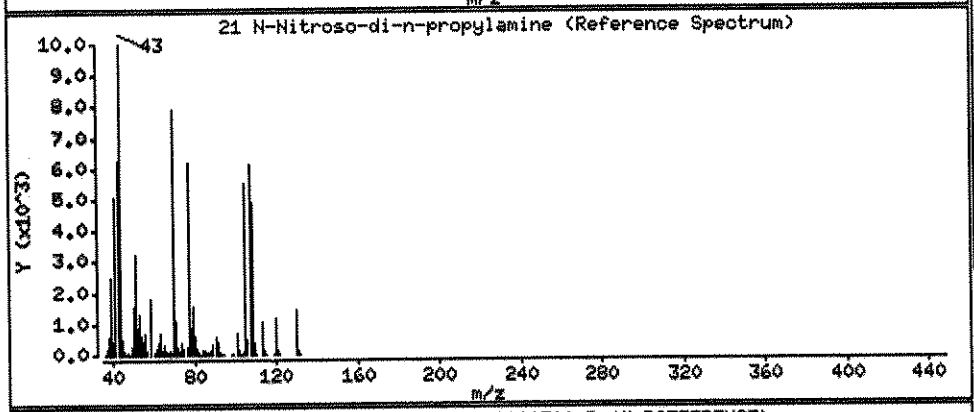
Volume Injected (uL): 1.0 Operator: HEC

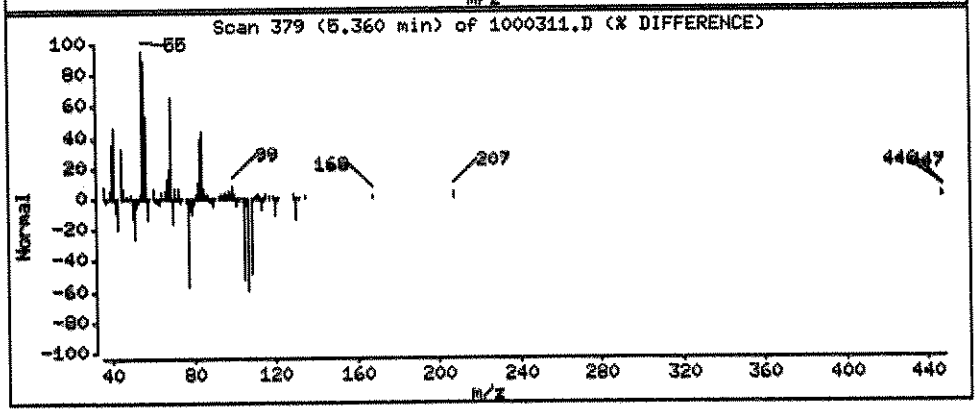
Column phase: fused silica Column diameter: 0.25

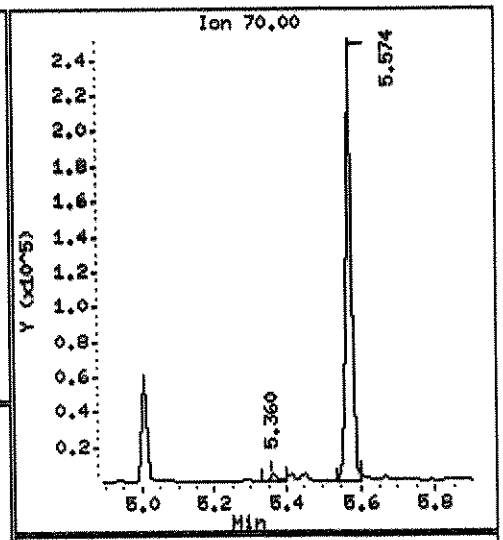
21 N-Nitroso-di-n-propylamine Concentration: 0.1264 UG/L

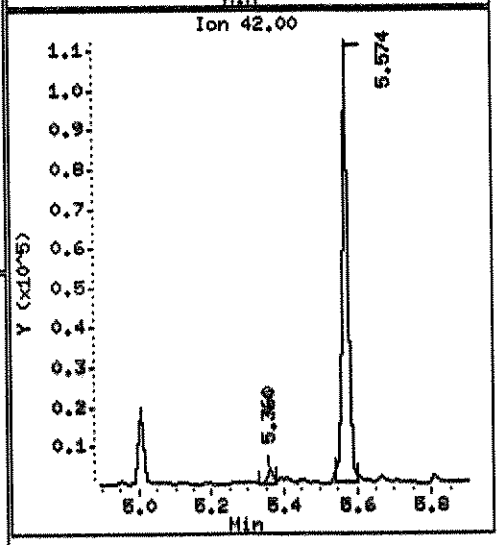












Data File: \\ELABNSHOB\TARGET\chem\bna4.i\102611B4E.b\1000311.D

Date : 27-OCT-2011 01:10

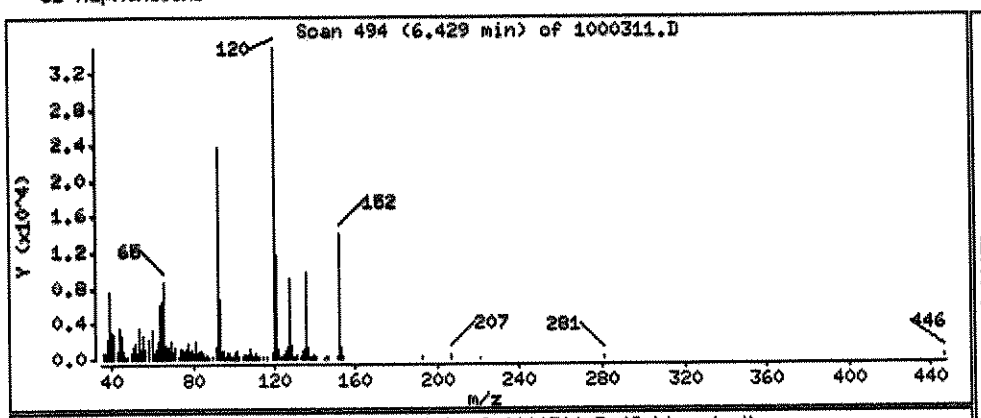
Client ID: FLC-RB02-092911 Instrument: bna4.i

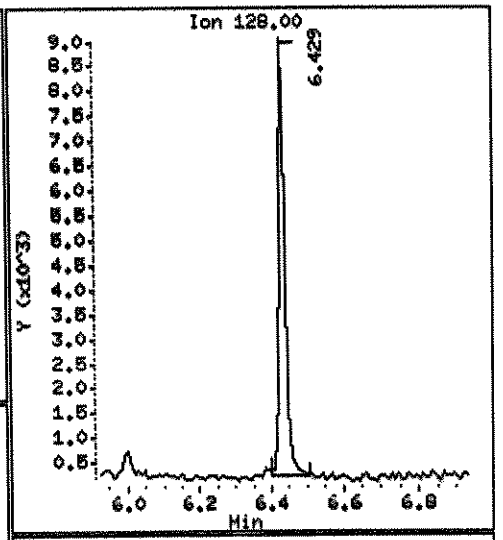
Sample Info: 1110003-11;1;1000;1000;1;UG/L;03-OCT-2011

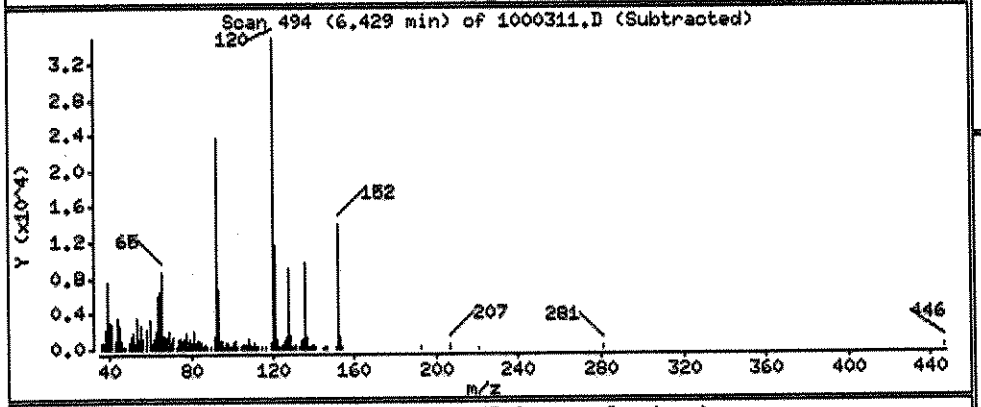
Volume Injected (uL): 1.0 Operator: MEC

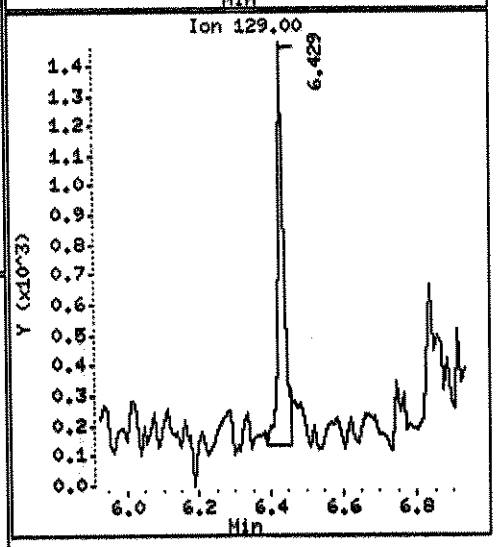
Column phase: fused silica Column diameter: 0.25

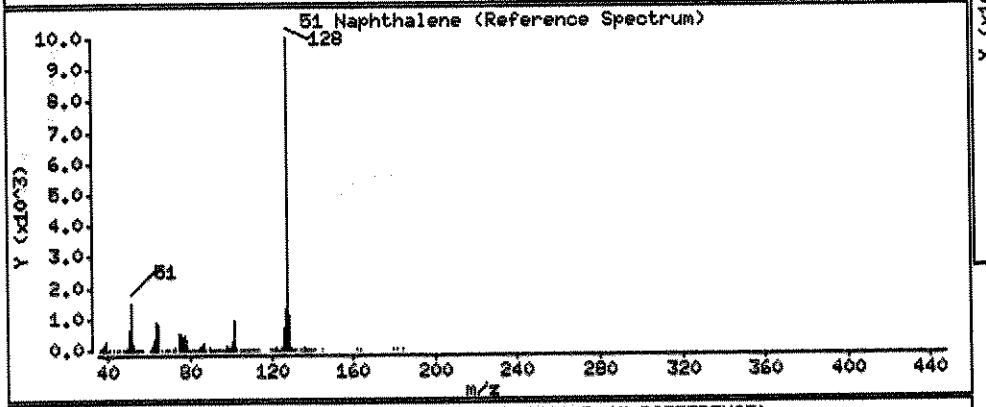
51 Naphthalene Concentration: 0.05362 UG/L

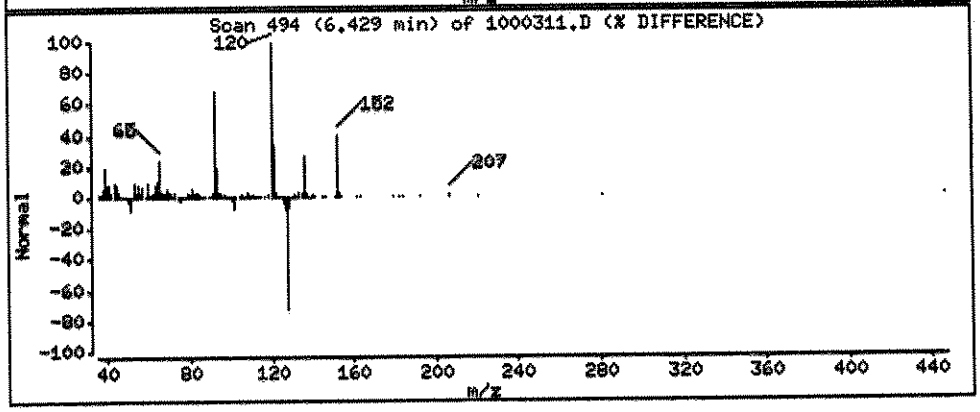












Data File: \\ELABNSH05\TARGET\chem\bna4.i\102611B4E.b\1000311.D

Date : 27-OCT-2011 01:10

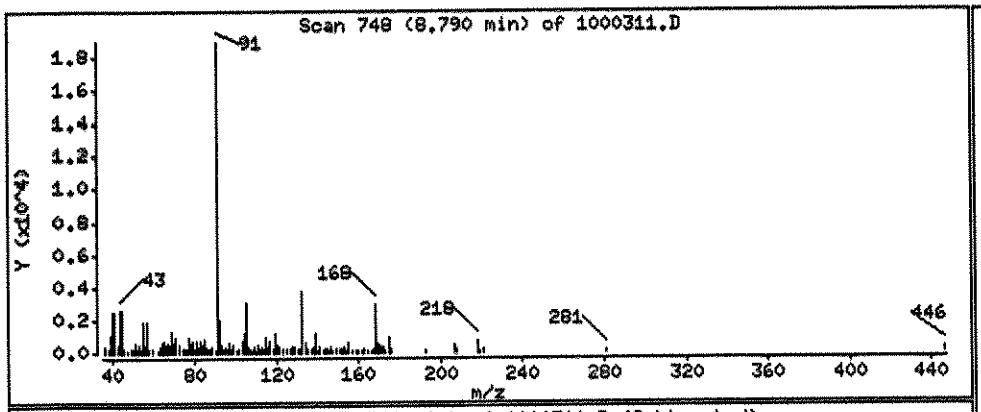
Client ID: FLC-RB02-092911 Instrument: bna4.i

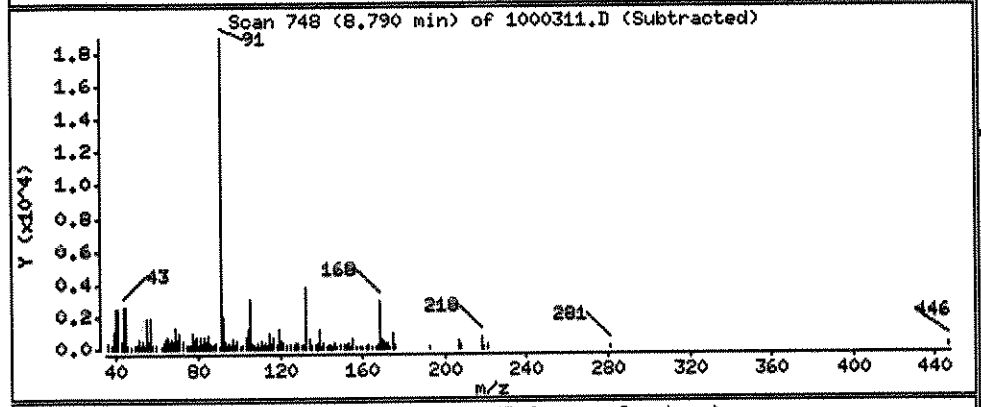
Sample Info: 1110003-11;1;1000;1000;1;UG/L;03-OCT-2011

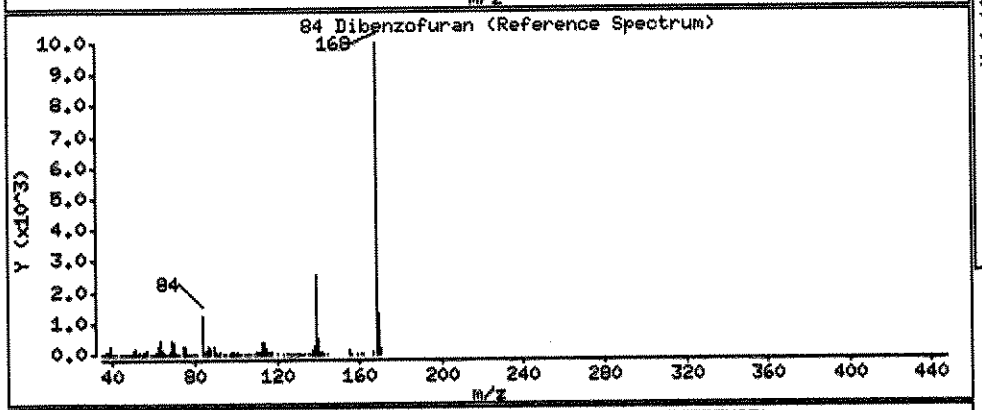
Volume Injected (uL): 1.0 Operator: MEC

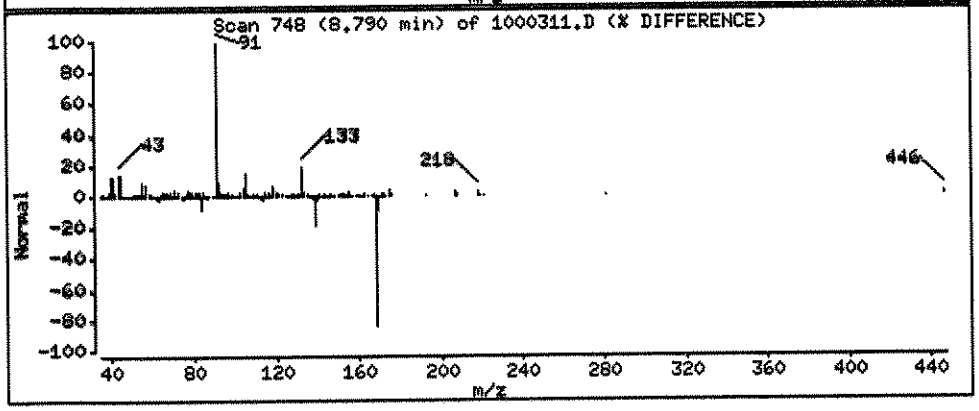
Column phase: fused silica Column diameter: 0.25

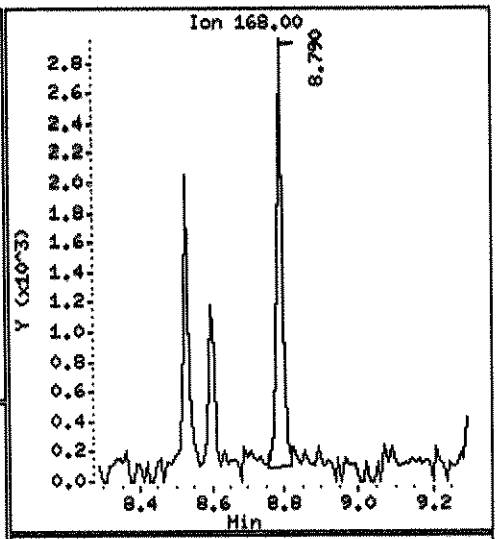
84 Dibenzofuran Concentration: 0.02104 UG/L

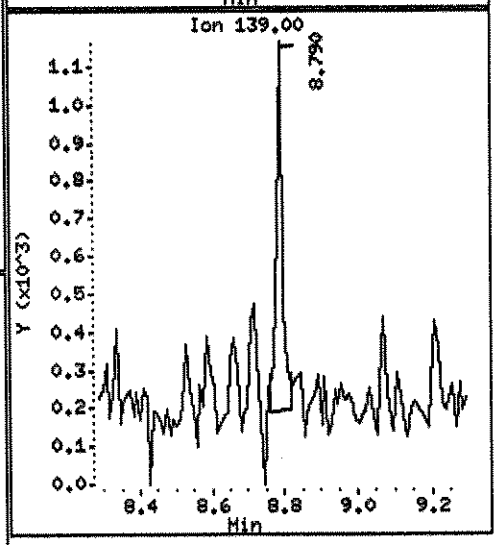












Data File: \\ELAINSHOS\TARGET\chem\bna4.i\10261134E.b\1000311.D

Date : 27-OCT-2011 01:10

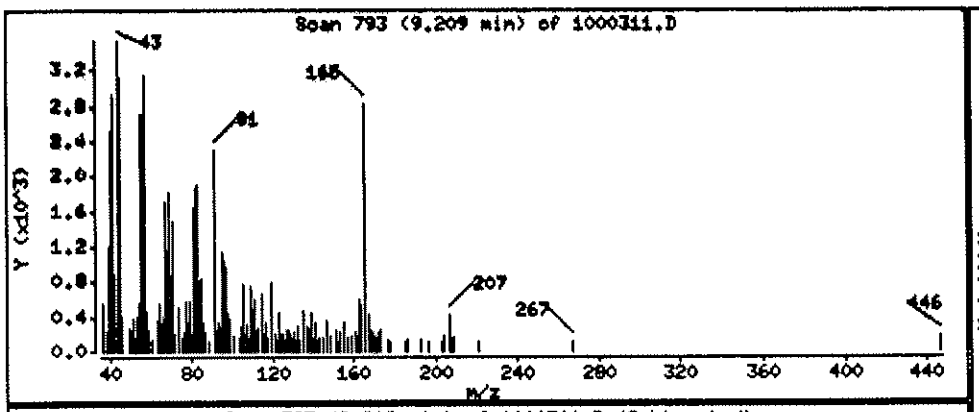
Client ID: FLC-RB02-092911 Instrument: bna4.i

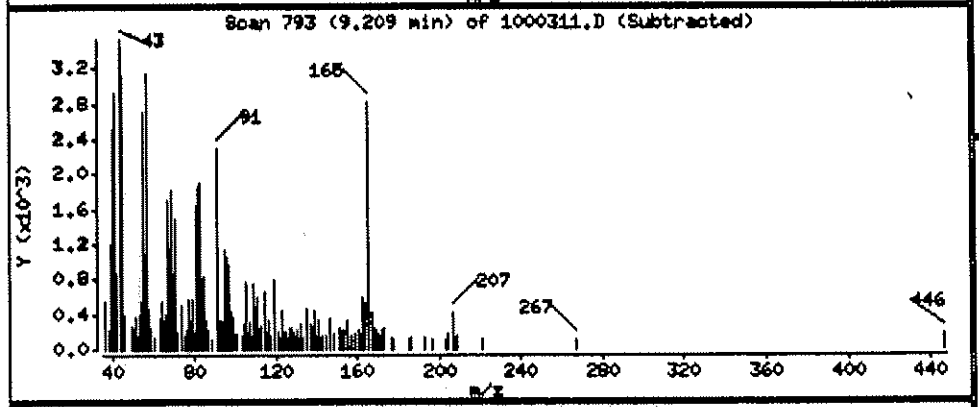
Sample Info: 1110003-11;1;1000;1000;1;UG/L;03-OCT-2011

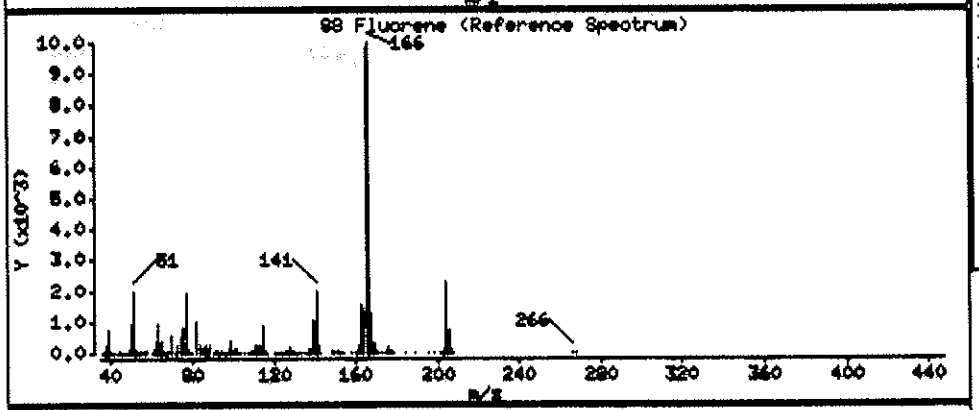
Volume Injected (uL): 1.0 Operator: MEC

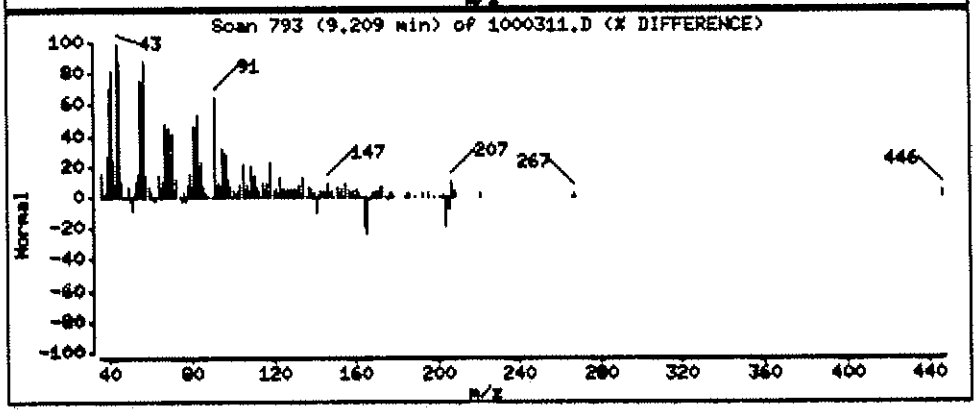
Column phase: fused silica Column diameter: 0.25

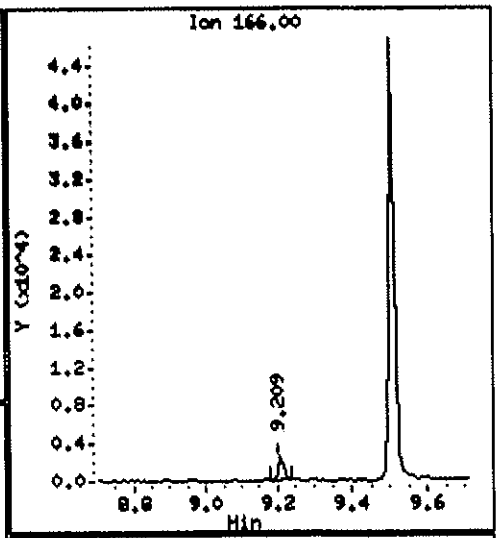
88 Fluorene Concentration: 0.02451 UG/L

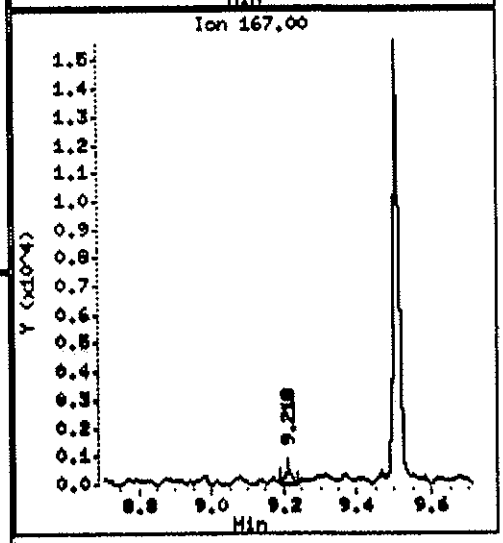












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Date : 27-OCT-2011 01:10

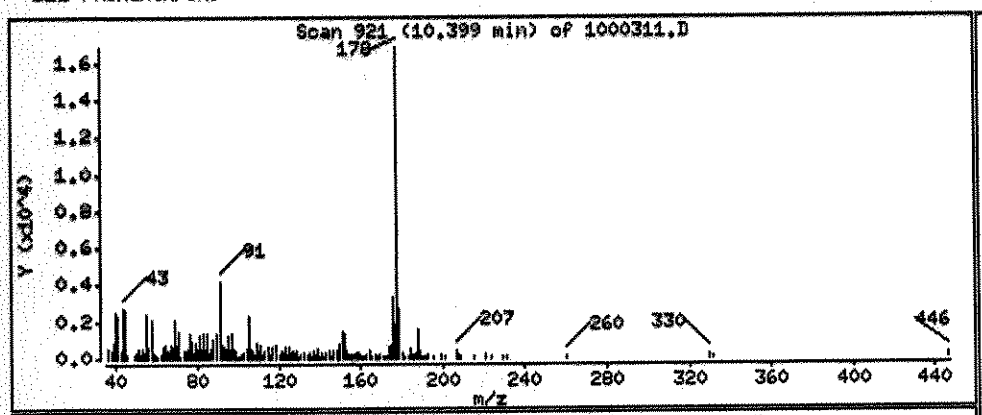
Client ID: FLC-RB02-092911 Instrument: bna4.i

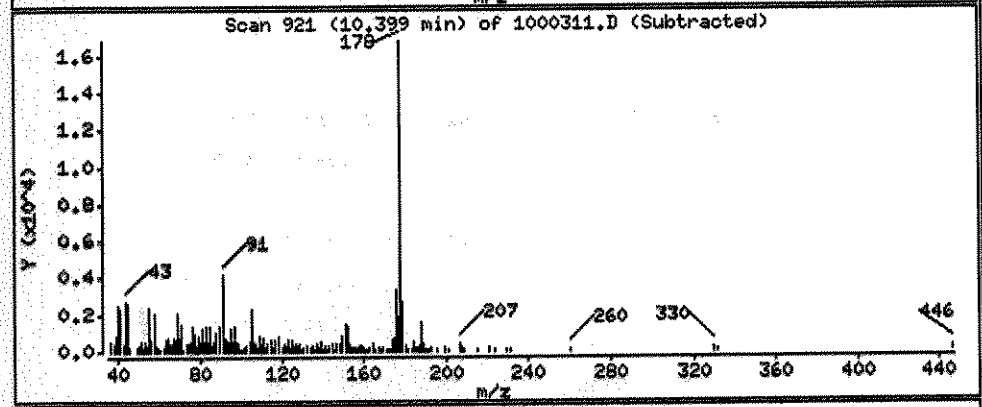
Sample Info: 1110003-11;1;1000;1000;1;UG/L;03-OCT-2011

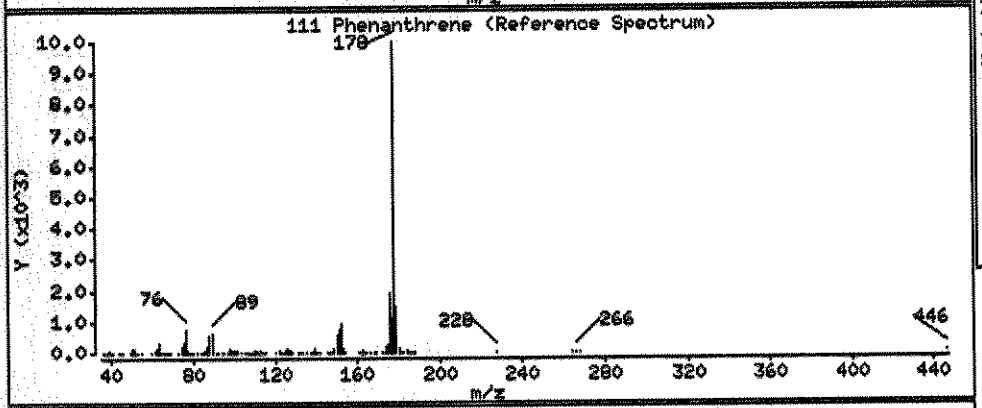
Volume Injected (uL): 1.0 Operator: MEC

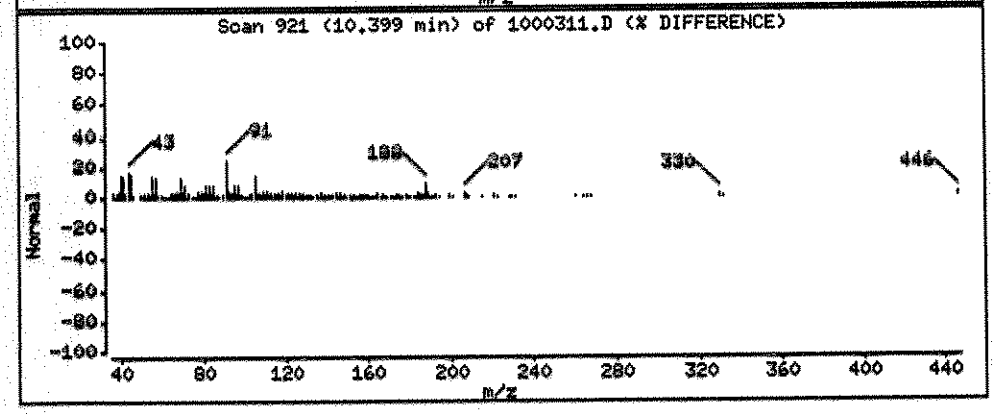
Column phase: fused silica Column diameter: 0.25

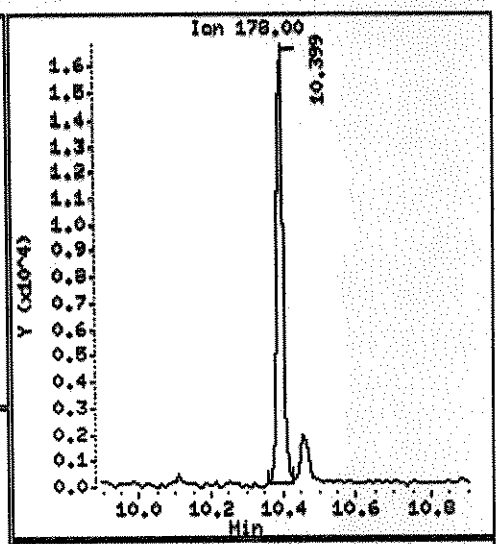
111 Phenanthrene Concentration: 0.1216 UG/L

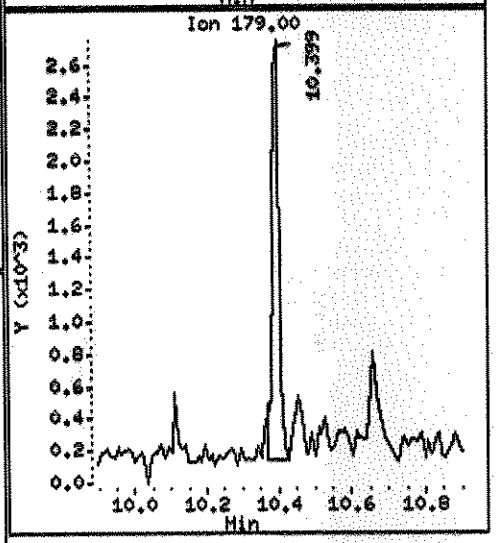












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Date : 27-OCT-2011 01:10

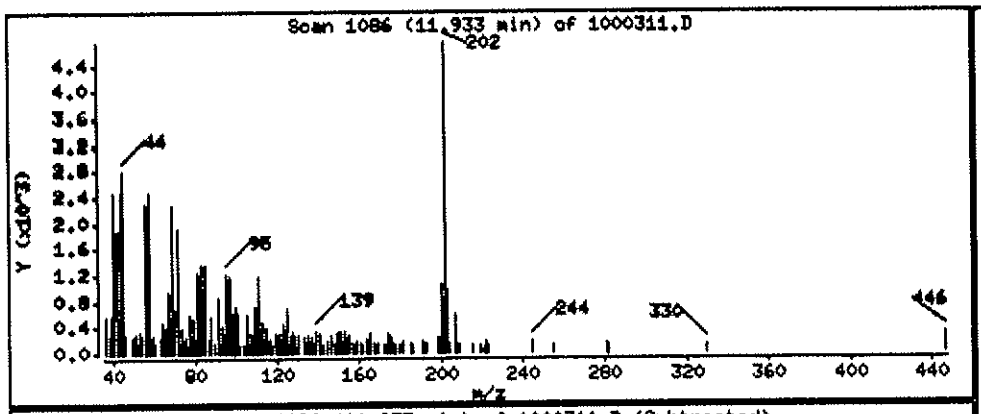
Client ID: FLC-RD02-092911 Instrument: bna4.i

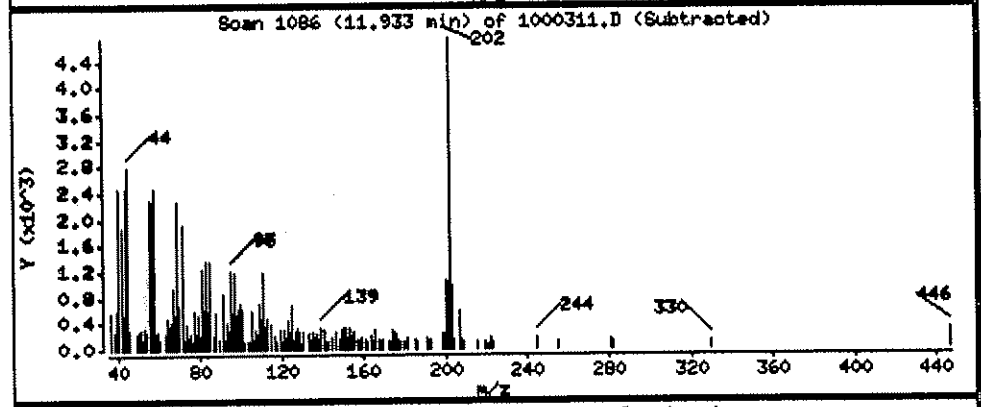
Sample Info: 1110003-11;1;1000;1000;1;UG/L;03-OCT-2011

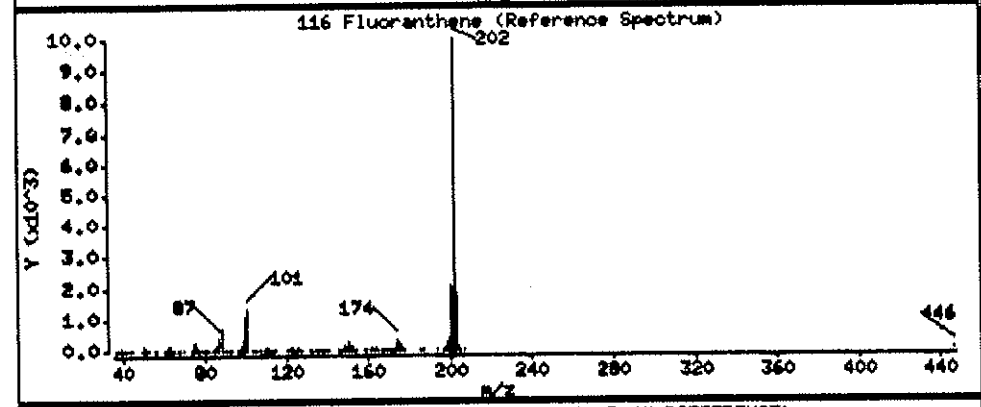
Volume Injected (uL): 1.0 Operator: HEC

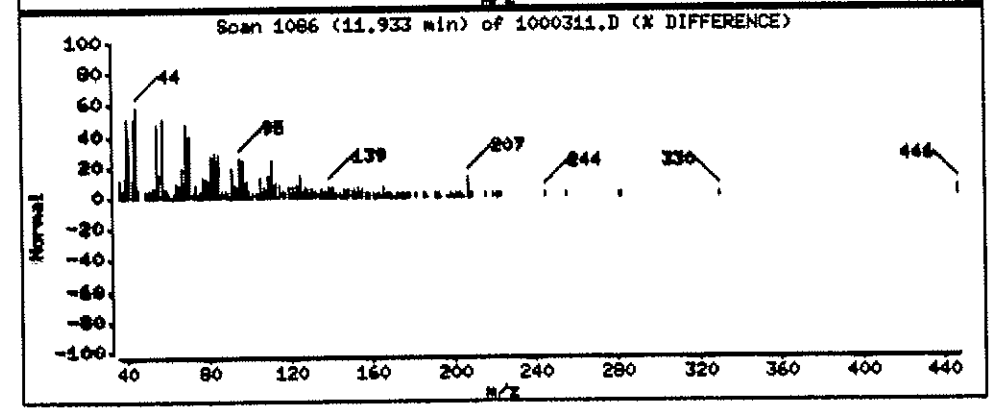
Column phase: fused silica Column diameter: 0.25

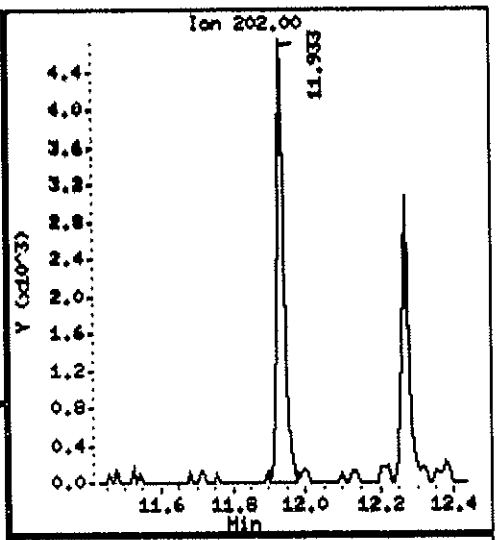
116 Fluoranthene Concentration: 0.04400 UG/L

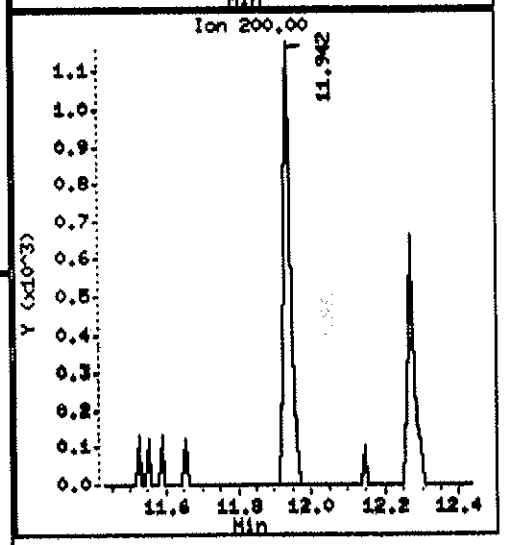












Data File: \\BLANKHOE\TARGET\chem\bna4.i\10261124E.b\1000311.D

Date : 27-OCT-2011 01:10

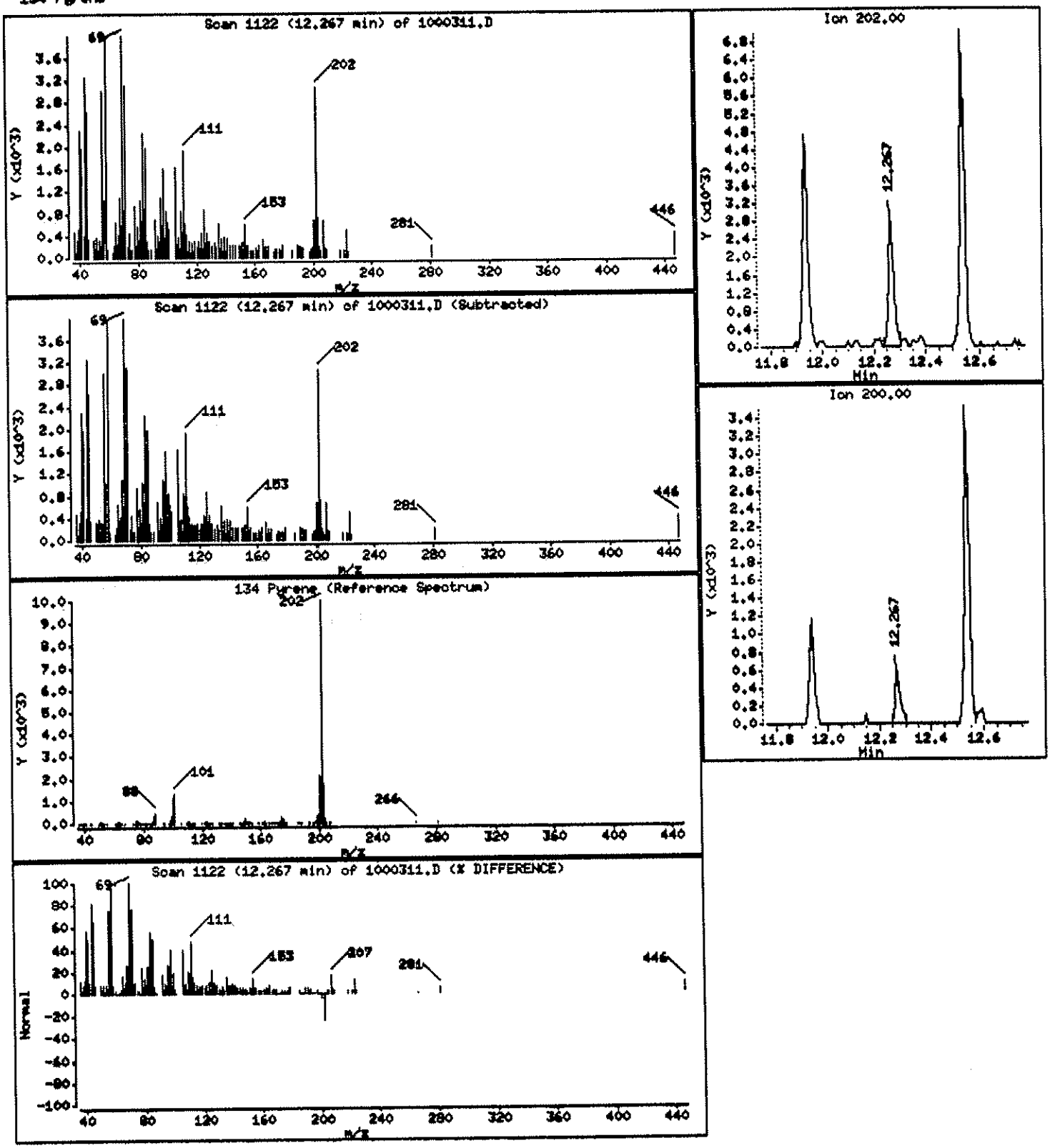
Client ID: FLC-RB02-092911 Instrument: bna4.i

Sample Info: 1110003-11;1;1000;1000;1;UG/L;03-OCT-2011

Volume Injected (uL): 1.0 Operator: HEC

Column phase: fused silica Column diameter: 0.25

134 Pyrene Concentration: 0.02668 UG/L



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Date : 27-OCT-2011 01:10

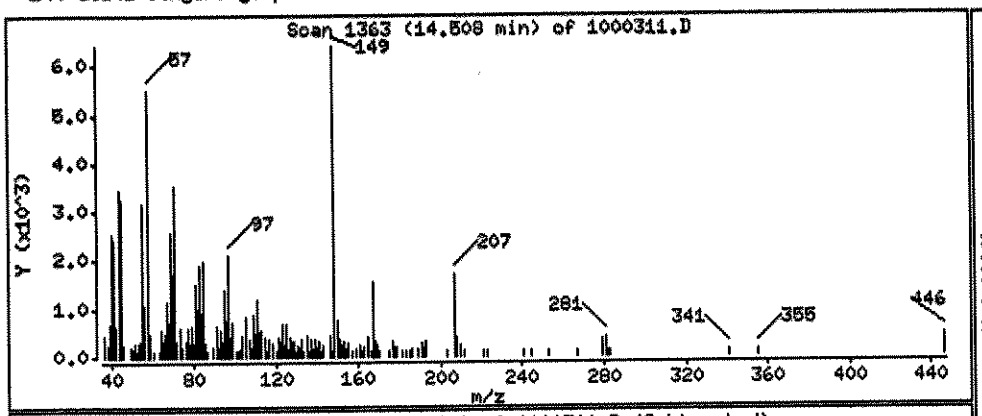
Client ID: FLC-RB02-092911 Instrument: bna4.i

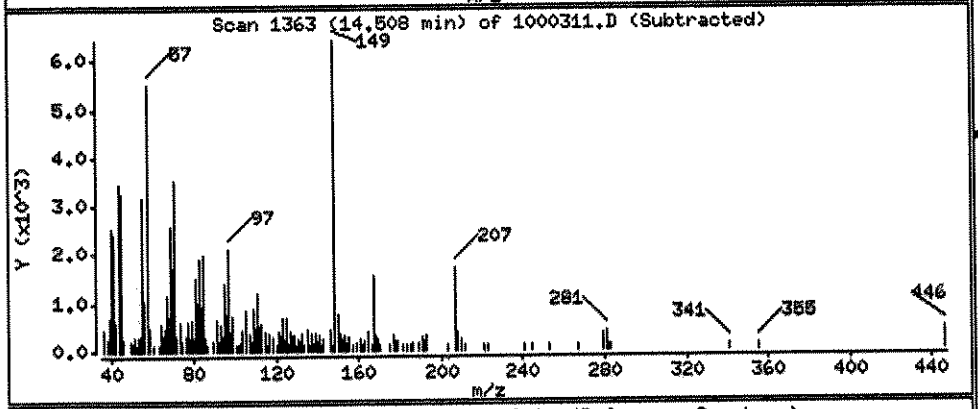
Sample Info: 1110003-11;1;1000;1000;1;UG/L;03-OCT-2011

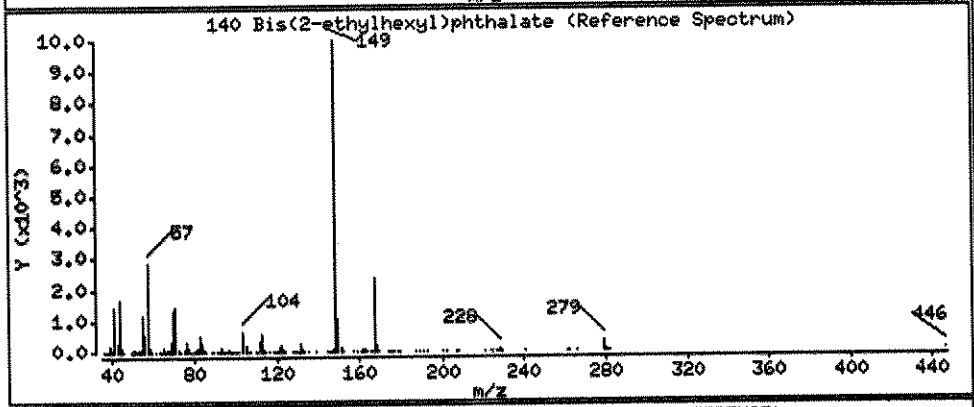
Volume Injected (uL): 1.0 Operator: MEC

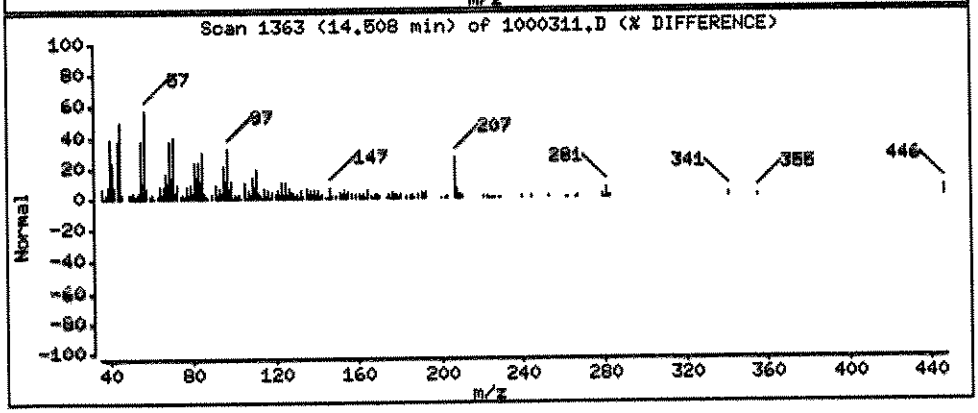
Column phase: fused silica Column diameter: 0.25

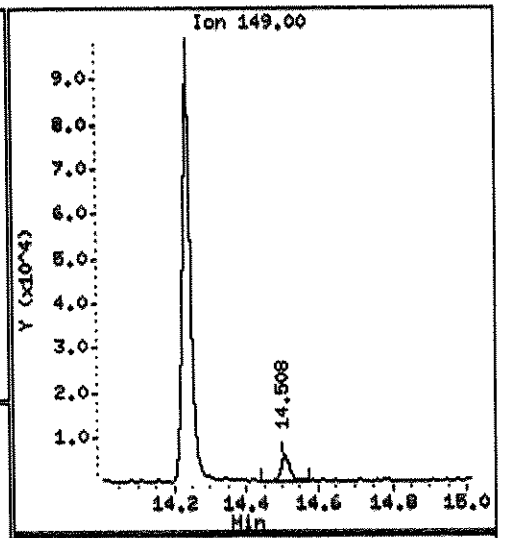
140 Bis(2-ethylhexyl)phthalate Concentration: 0.09372 UG/L

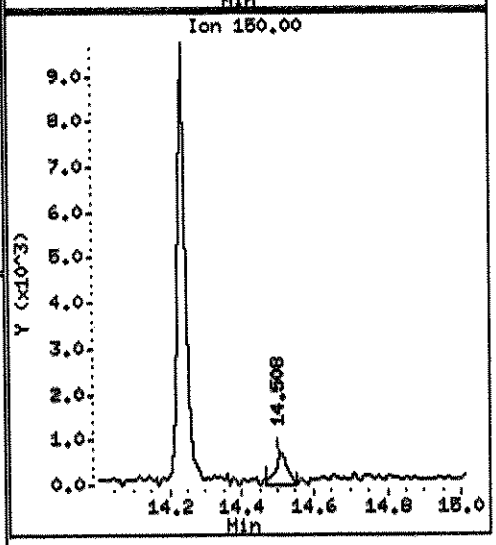












Data File: \\ELABNSH05\TARGET\chem\bna4.i\102611B4E.b\1000312.D
Report Date: 28-Oct-2011 10:42

JH. 11.1.11

Laboratory Name

Data file : \\ELABNSH05\TARGET\chem\bna4.i\102611B4E.b\1000312.D
Lab Smp Id: 1110003-12 Client Smp ID: FLC-5-MW01-092911
Inj Date : 27-OCT-2011 01:39 MS Autotune Date: 23-OCT-2011 10:06
Operator : MEC Inst ID: bna4.i
Smp Info : 1110003-12;1;1000;1000;1;UG/L;03-OCT-2011
Misc Info : ;0;;;;1J03003;pahmisc.sub;
Comment :
Method : \\ELABNSH05\TARGET\chem\bna4.i\102611B4E.b\IXBN4LOW.m
Meth Date : 28-Oct-2011 10:39 mcobb Quant Type: ISTD
Cal Date : 24-AUG-2011 18:33 Cal File: SEQ-CAL9.D
Als bottle: 31
Dil Factor: 1.00000
Integrator: HP RTE Compound Sublist: pahmisc.sub
Target Version: 4.04
Processing Host: TARGET09_VM

Concentration Formula: Amt * DF * Uf * Vt* Vi/(Amt * Vi)

Name	Value	Description
DF	1.000	Dilution Factor
Uf	1.000	ng unit correction factor
Vt	1000.000	Volume of final extract (uL)
Vi	1.000	Volume injected (uL)
Amt	1000.000	Volume of initial extraction

Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS ON-COLUMN (ng/ul)	FINAL (UG/L)
* 102 Phenanthrene-d10	188	10.380	10.361	(1.000)	139269	1.00000	(M)
51 Naphthalene	128	6.429	6.429	(1.000)	37636	0.18155	0.1816
56 1-Methylnaphthalene	142	7.386	7.386	(1.000)	204516	1.69861	1.699
$ 74 2-Fluorobiphenyl	172	7.721	7.712	(1.000)	1629226	12.3804	12.38
80 Acenaphthene	153	8.576	8.576	(1.000)	169907	1.37369	1.374
$ 107 2,4,6-Tribromophenol	330	9.524	9.506	(1.000)	1392379	57.7488	57.75
111 Phenanthrene	178	10.408	10.398	(1.000)	99198	0.61210	0.6121
* 154 Perylene-d12	264	17.101	17.082	(1.000)	66075	1.00000	
$ 135 Terphenyl-d14	244	12.555	12.537	(1.000)	2310787	26.1607	26.16

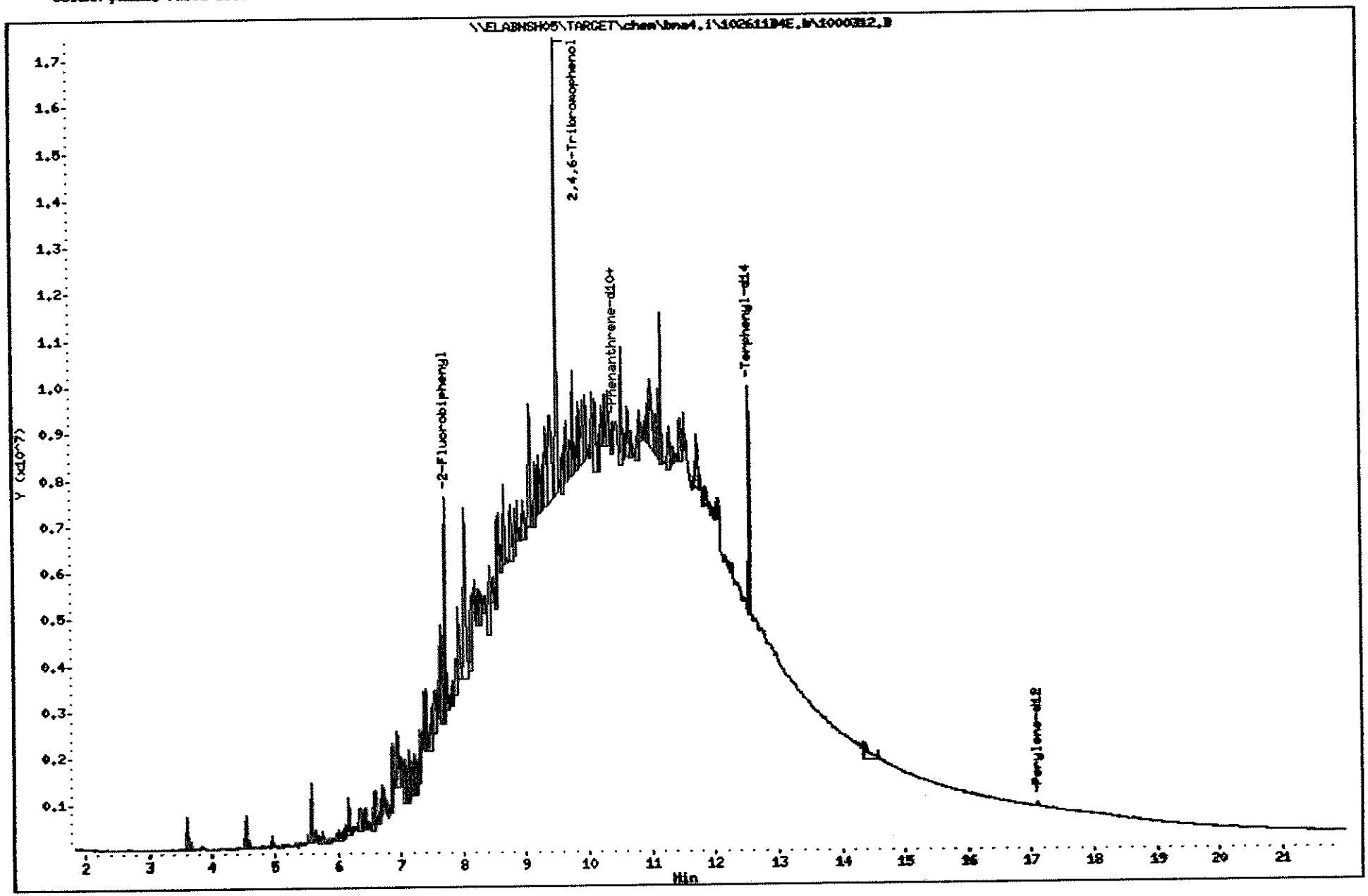
QC Flag Legend

M - Compound response manually integrated.

MEC
10/28/11

Data File: \\ELABNSH05\TARGET\chem\bma4.i\102611B4E.b\1000312.D
Date : 27-OCT-2011 01:39
Client ID: FLC-5-MM01-092911
Sample Info: 1110003-12;1;1000;1000;1;UE/L;03-OCT-2011
Volume Injected (uL): 1.0
Column phase: Fused silica

Instrument: bma4.i
Operator: MEC
Column diameter: 0.25

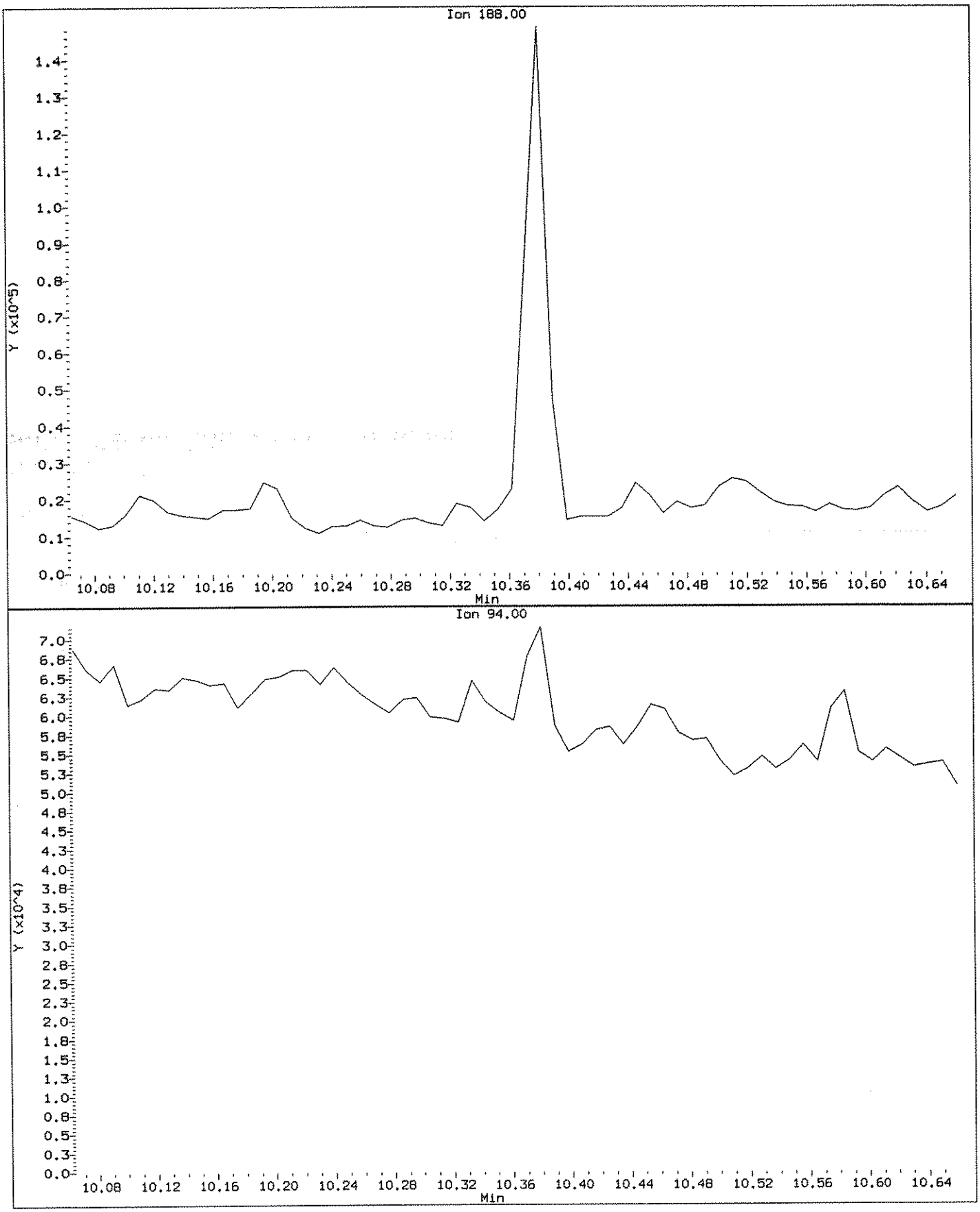


757

1110003

Data File: \\ELABNSH05\TARGET\chem\bna4.i\102611B4E.b\1000312.D
Injection Date: 27-OCT-2011 01:39
Instrument: bna4.i
Client Sample ID: FLC-5-MW01-092911

Compound: Phenanthrene-d10
CAS Number: 1517-22-2



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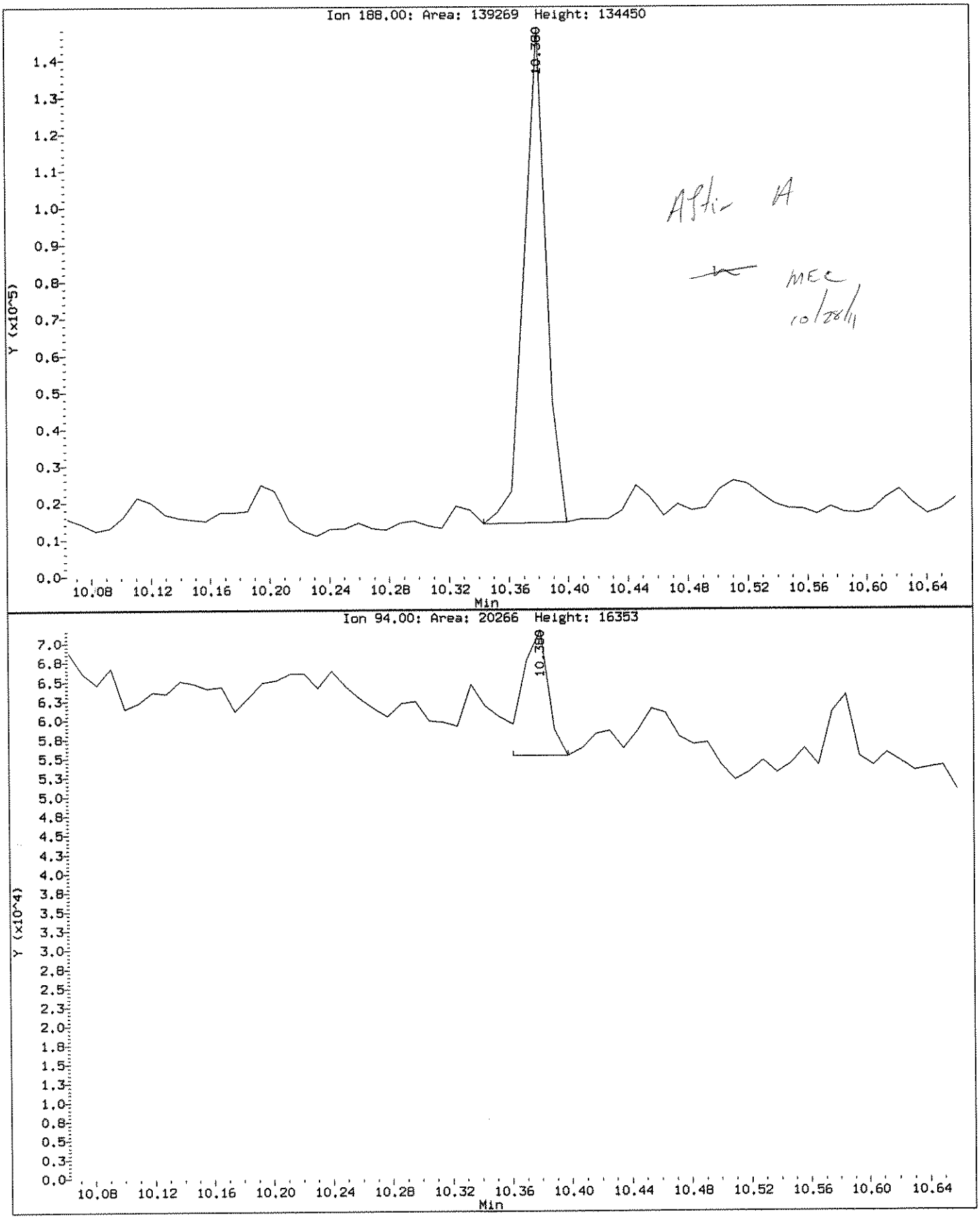
Injection Date: 27-OCT-2011 01:39
Instrument: bna4.i
Client Sample ID: FLC-5-MW01-092911

Compound: Phenanthrene-d10
CAS Number: 1517-22-2



After A
MEC
10/28/11

Data File: \\BLABHGMS\TARGET\chem\bna4.i\10261L94E.b\1000312.D

Date : 27-OCT-2011 01:39

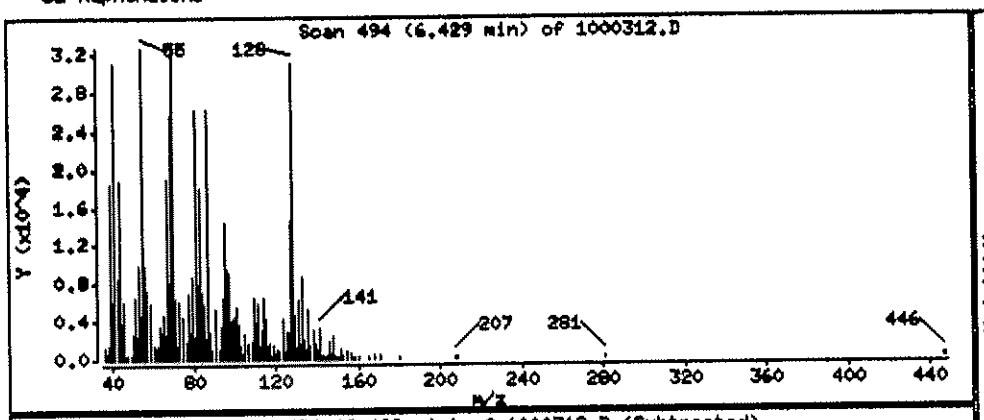
Client ID: FLC-5-M401-092911 Instrument: bna4.i

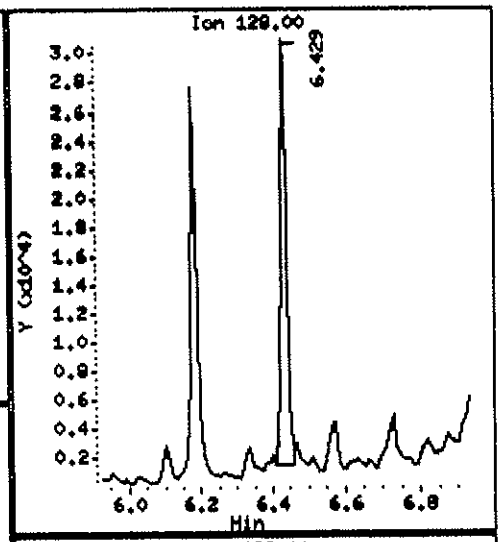
Sample Info: 1110003-12;1;1000;1000;1;UG/L;03-OCT-2011

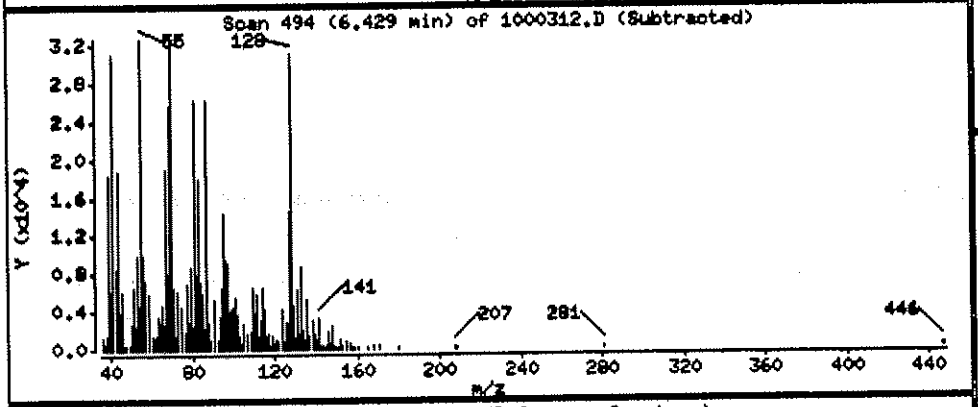
Volume Injected (uL): 1.0 Operator: MEC

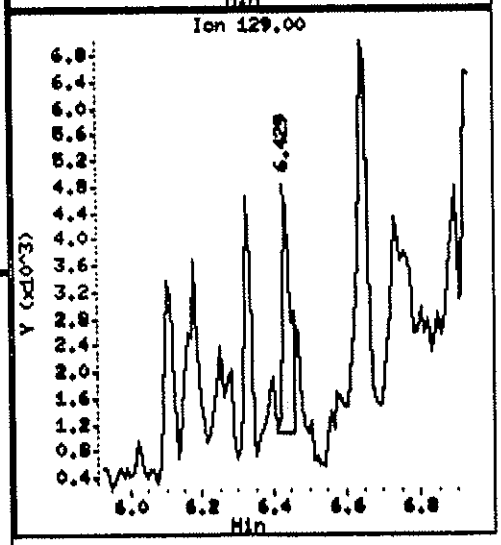
Column phase: fused silica Column diameter: 0.25

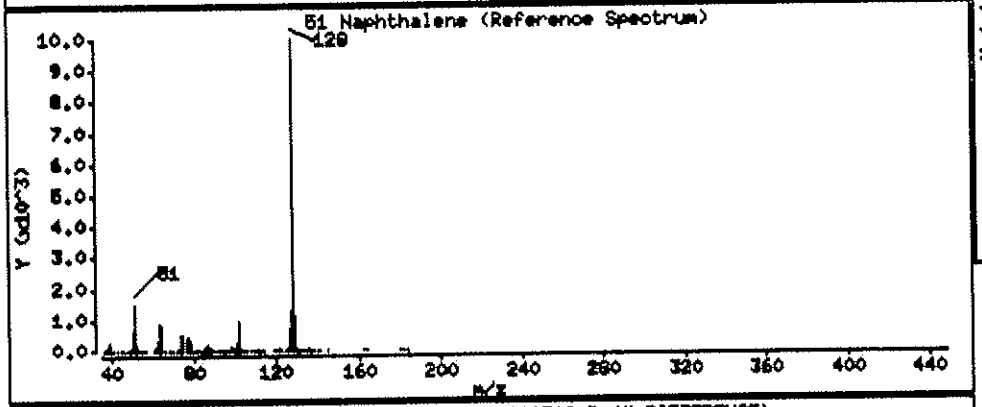
51 Naphthalene Concentration: 0.1816 UG/L

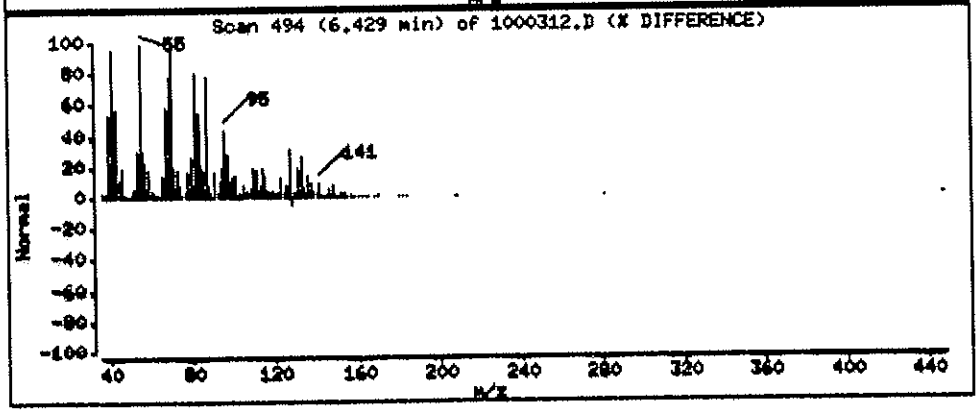












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Date : 27-OCT-2011 01:39

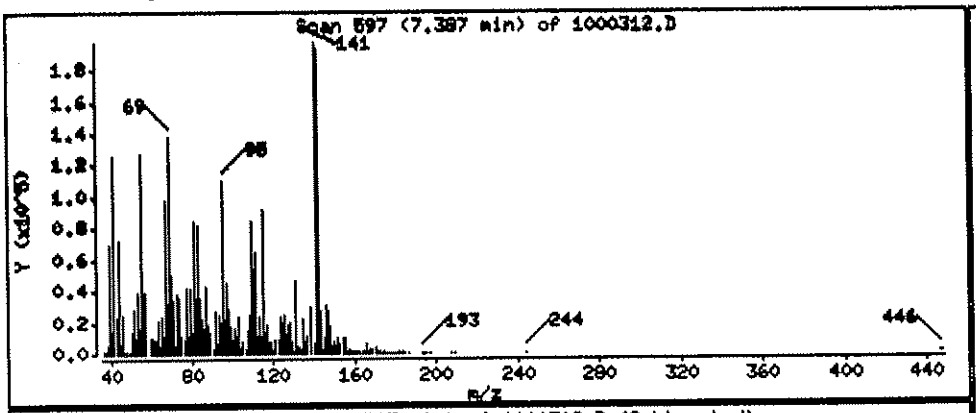
Client ID: FLC-5-HW01-092911 Instrument: bna4.i

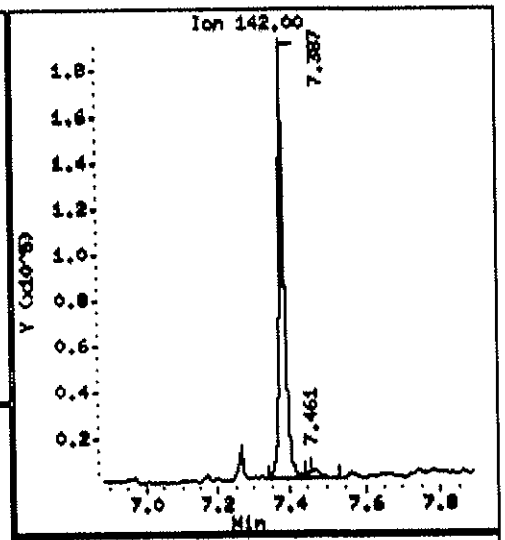
Sample Info: 1110003-12;1;1000;1000;1;UG/L;03-OCT-2011

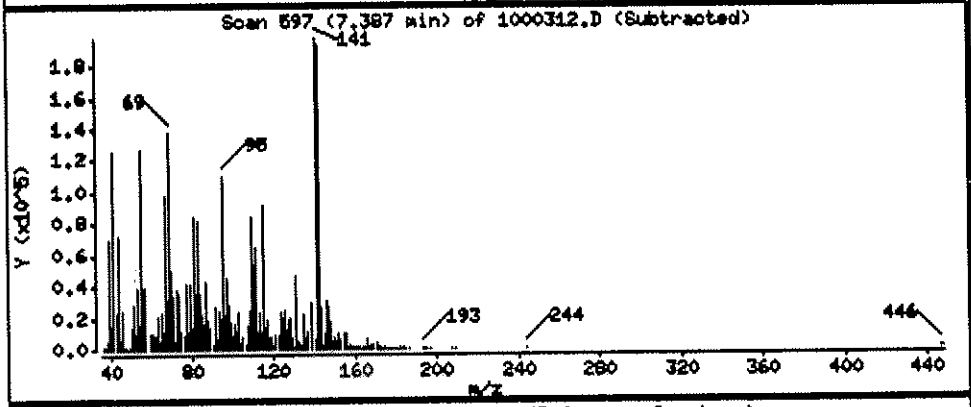
Volume Injected (uL): 1.0 Operator: MEC

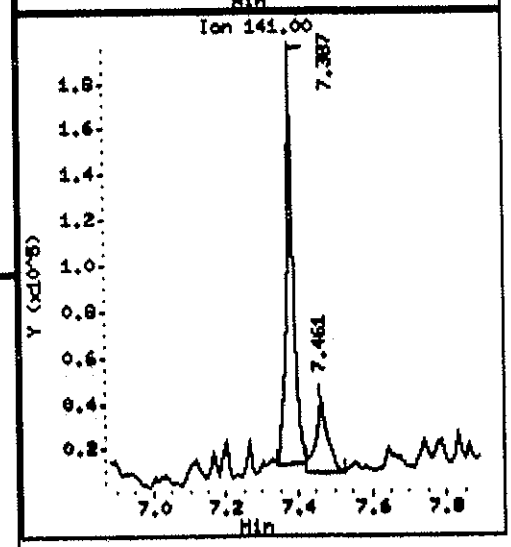
Column phase: fused silica Column diameter: 0.25

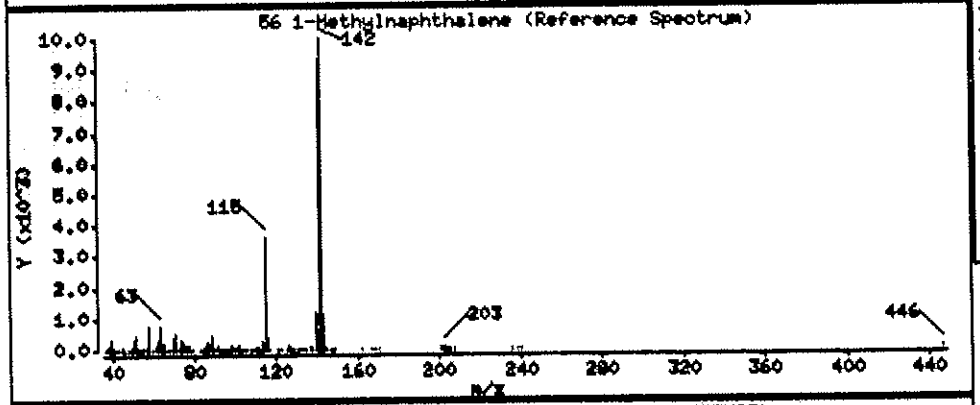
56 1-Methylnaphthalene Concentration: 1.699 UG/L

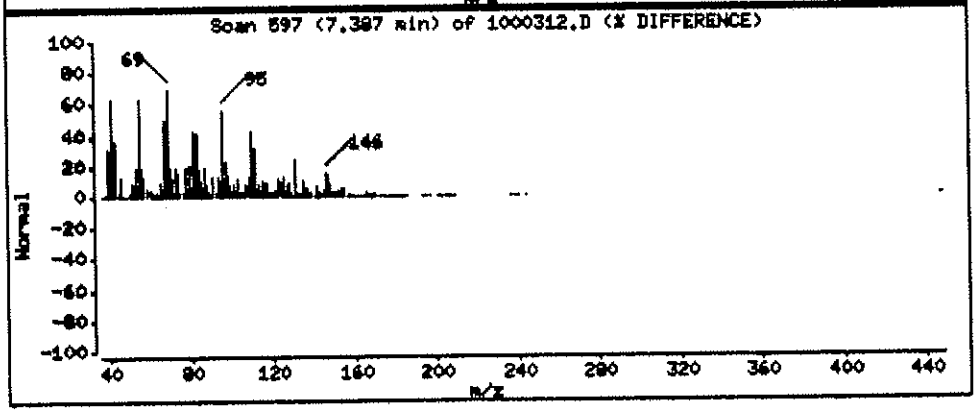












Data File: \\ELASHMHOF\TARGET\chem\bna4.i\10941194E.b\1000312.D

Date : 27-OCT-2011 01:39

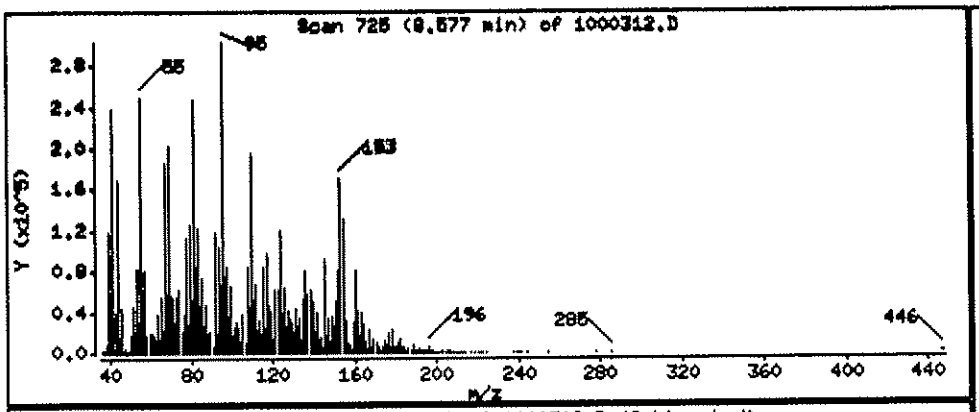
Client ID: FLC-5-HW01-092911 Instrument: bna4.i

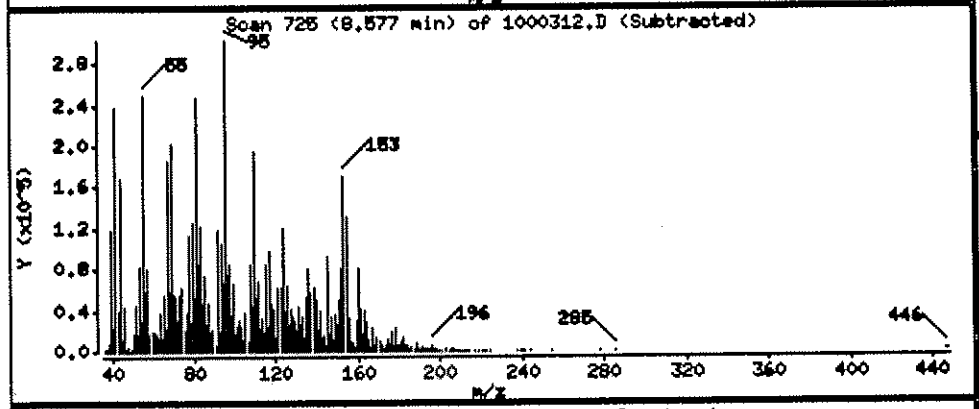
Sample Info: 1110003-12;1;1000;1000;1;UG/L;03-OCT-2011

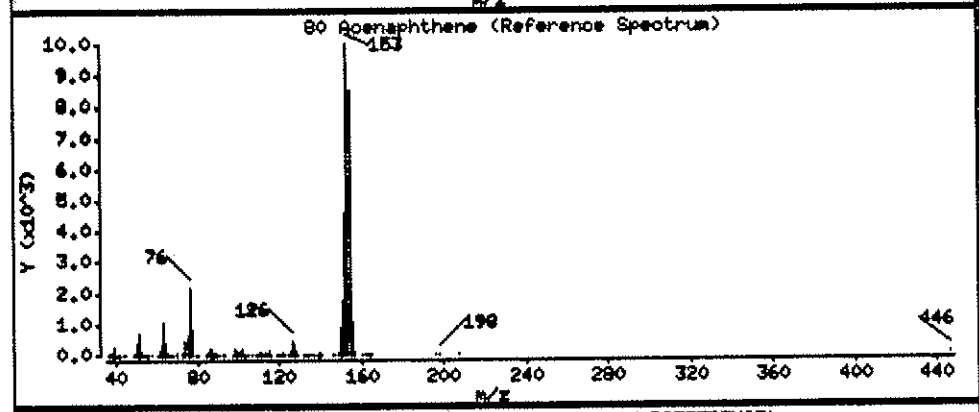
Volume Injected (uL): 1.0 Operator: MZC

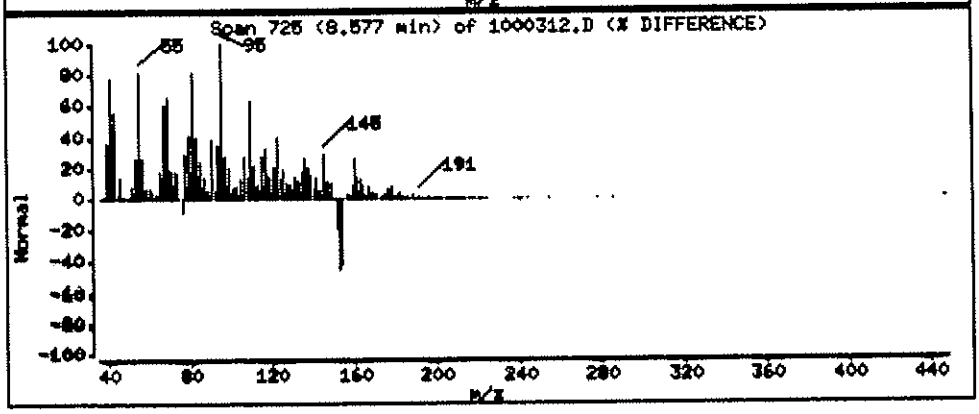
Column phase: fused silica Column diameter: 0.25

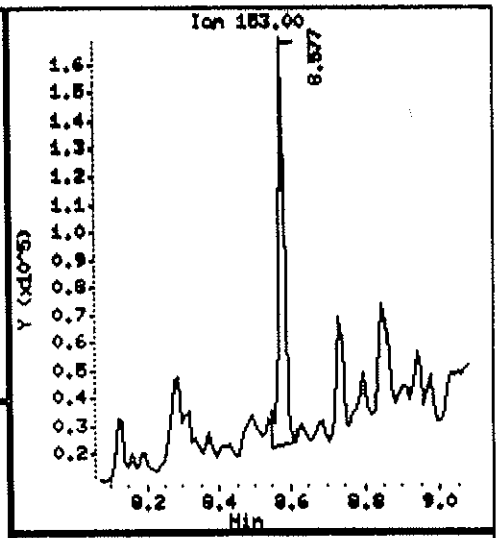
90 Acenaphthene Concentration: 1.374 UG/L

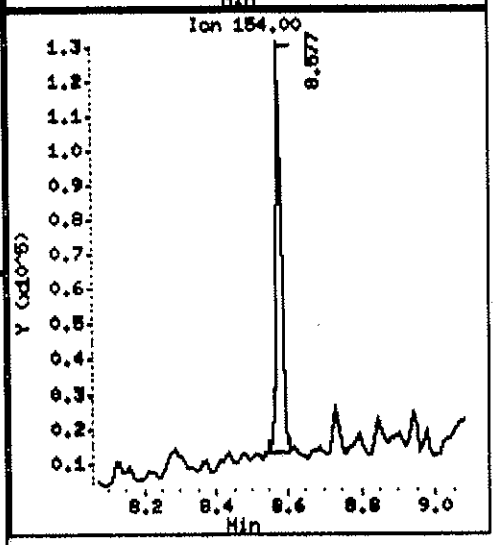












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Date : 27-OCT-2011 01:39

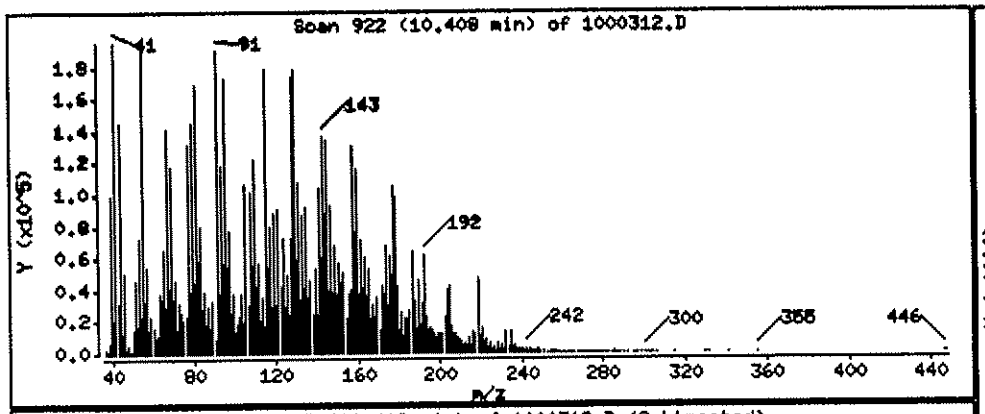
Client ID: FLC-5-HW01-092911 Instrument: bna4.i

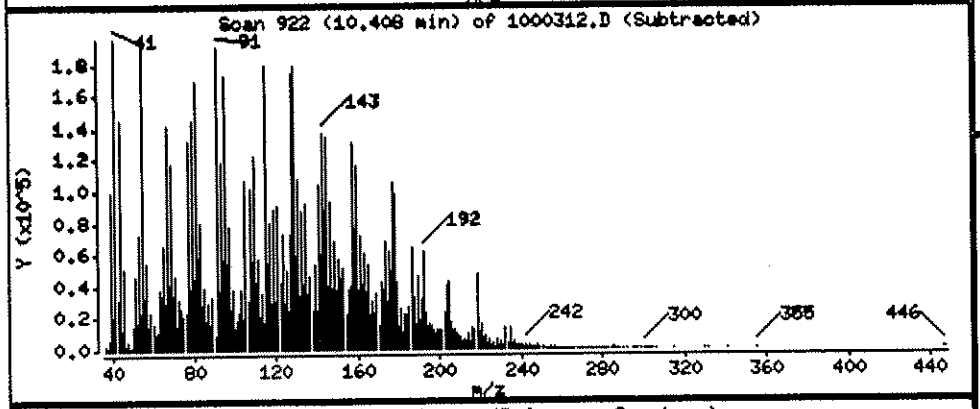
Sample Info: 1110003-12;1;1000;1000;1;UG/L;03-OCT-2011

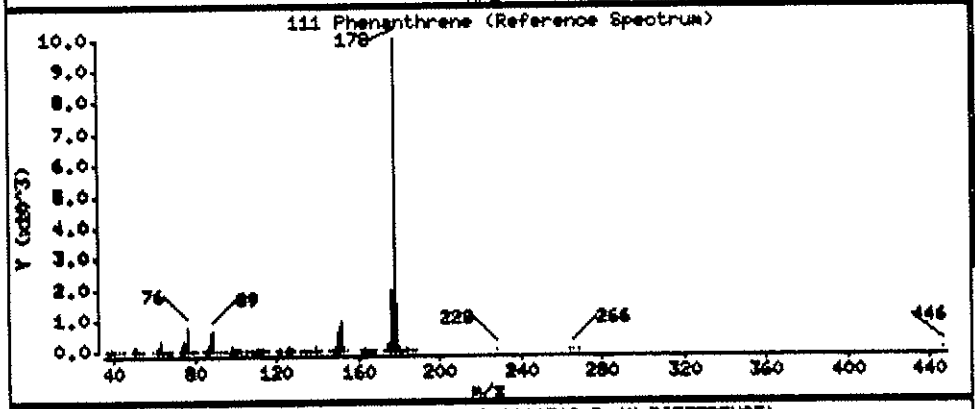
Volume Injected (uL): 1.0 Operator: HEC

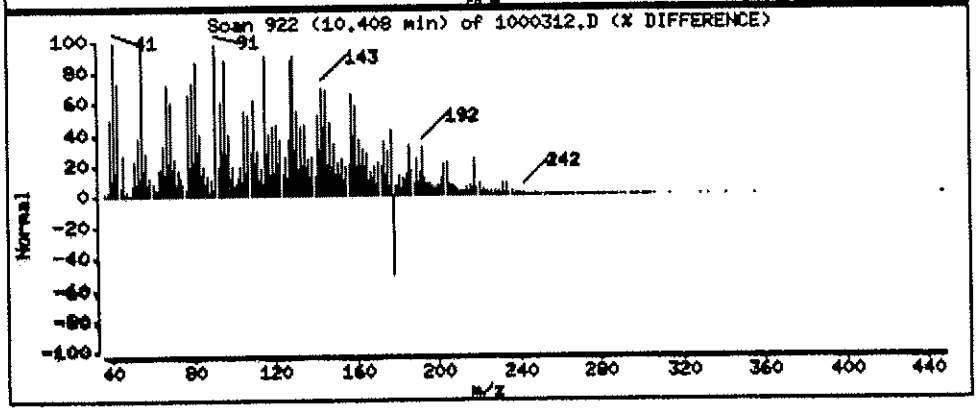
Column phase: fused silica Column diameter: 0.25

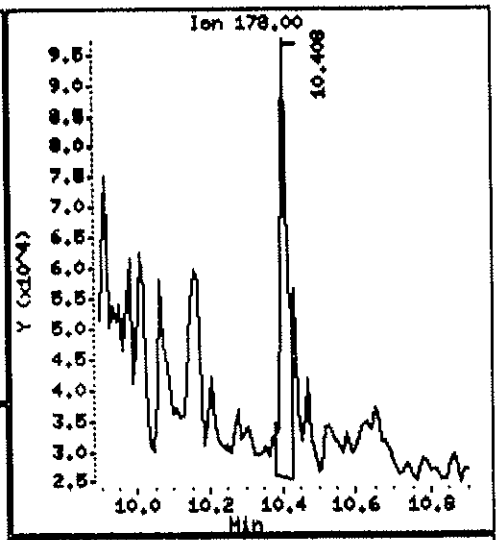
111 Phenanthrene Concentration: 0.6121 UG/L

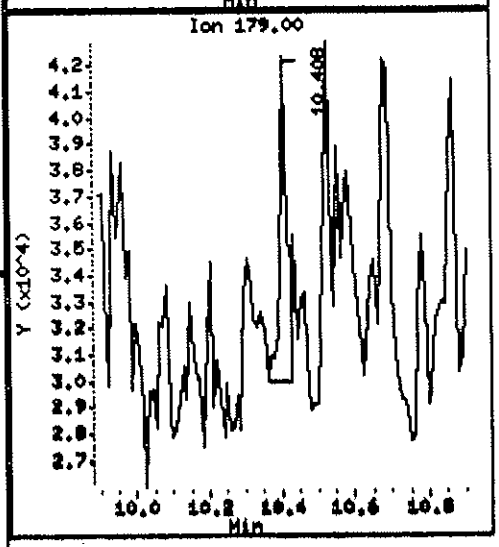












Data File: \\ELABNSH05\TARGET\chem\bna4.i\102611B4E.b\1000314.D
Report Date: 28-Oct-2011 10:42

11.1.11

Laboratory Name

Data file : \\ELABNSH05\TARGET\chem\bna4.i\102611B4E.b\1000314.D
Lab Smp Id: 1110003-14 Client Smp ID: FLC-5-MW02-092911
Inj Date : 27-OCT-2011 02:09 MS Autotune Date: 23-OCT-2011 10:06
Operator : MEC Inst ID: bna4.i
Smp Info : 1110003-14;1;1000;1000;1;UG/L;03-OCT-2011
Misc Info : ;0;;;;1J03003;pahmisc.sub;
Comment :
Method : \\ELABNSH05\TARGET\chem\bna4.i\102611B4E.b\IXBN4LOW.m
Meth Date : 28-Oct-2011 10:39 mcobb Quant Type: ISTD
Cal Date : 24-AUG-2011 18:33 Cal File: SEQ-CAL9.D
Als bottle: 32
Dil Factor: 1.00000
Integrator: HP RTE Compound Sublist: pahmisc.sub
Target Version: 4.04
Processing Host: TARGET09_VM

Concentration Formula: Amt * DF * Uf * Vt* Vi/(Amt * Vi)

Name	Value	Description
DF	1.000	Dilution Factor
Uf	1.000	ng unit correction factor
Vt	1000.000	Volume of final extract (uL)
Vi	1.000	Volume injected (uL)
Amt	1000.000	Volume of initial extraction

Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS ON-COLUMN (ng/ul)	CONCENTRATIONS FINAL (UG/L)
* 102 Phenanthrene-d10	188	10.371	10.361	(1.000)	139227	1.00000	
51 Naphthalene	128	6.438	6.429	(0.621)	9387	0.04530	0.04530(a)
56 1-Methylnaphthalene	142	7.386	7.386	(0.712)	3301	0.02742	0.02742(a)
$ 74 2-Fluorobiphenyl	172	7.721	7.712	(0.745)	3347419	25.4444	25.44
80 Acenaphthene	153	8.576	8.576	(0.827)	5327	0.04308	0.04308(a)
$ 107 2,4,6-Tribromophenol	330	9.515	9.506	(0.918)	1370546	56.8605	56.86
111 Phenanthrene	178	10.398	10.398	(1.003)	20626	0.12731	0.1273
* 154 Perylene-d12	264	17.092	17.082	(1.000)	60751	1.00000	
$ 135 Terphenyl-d14	244	12.546	12.537	(1.210)	2504456	28.3618	28.36
139 Chrysene	228	14.405	14.396	(1.389)	3608	0.03692	0.03692(a)
161 Benzo(g,h,i)perylene	276	19.593	19.583	(1.146)	1251	0.02523	0.02522(a)

MEC
10/28/11

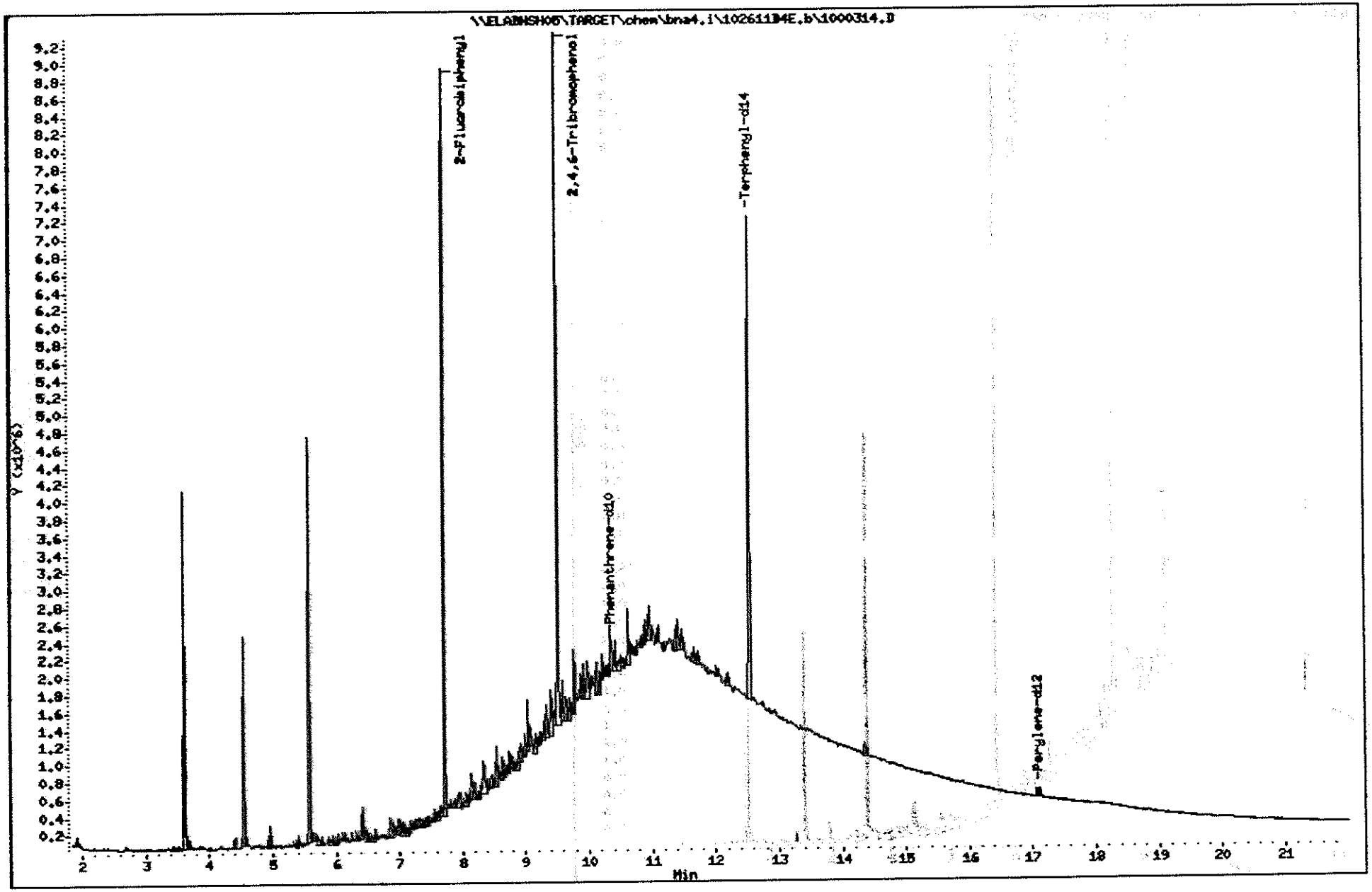
Data File: \\ELABNSH05\TARGET\chem\bna4.i\102611B4E.b\1000314.D
Report Date: 28-Oct-2011 10:42

QC Flag Legend

a - Target compound detected but, quantitated amount
Below Limit Of Quantitation(BLOQ).

Data File: \\ELABNSHO5\TARGET\chem\bna4.i\10261194E.b\1000314.D
Date : 27-OCT-2011 02:09
Client ID: FLC-5-NW02-092911
Sample Info: 1110003-14;1;1000;1000;1;WE/L;03-OCT-2011
Volume Injected (uL): 1.0
Column phase: fused silica

Instrument: bna4.i
Operator: MEO
Column diameter: 0.25



766

1110003

Data File: \\ELABNSH06\TARGET\chem\bna4.i\102611B4E.b\1000314.D

Date : 27-OCT-2011 02:09

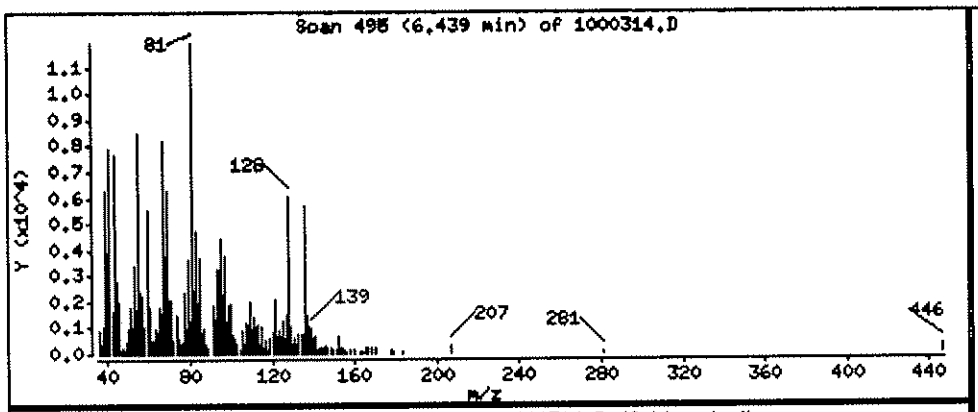
Client ID: FLC-6-MW02-092911 Instrument: bna4.i

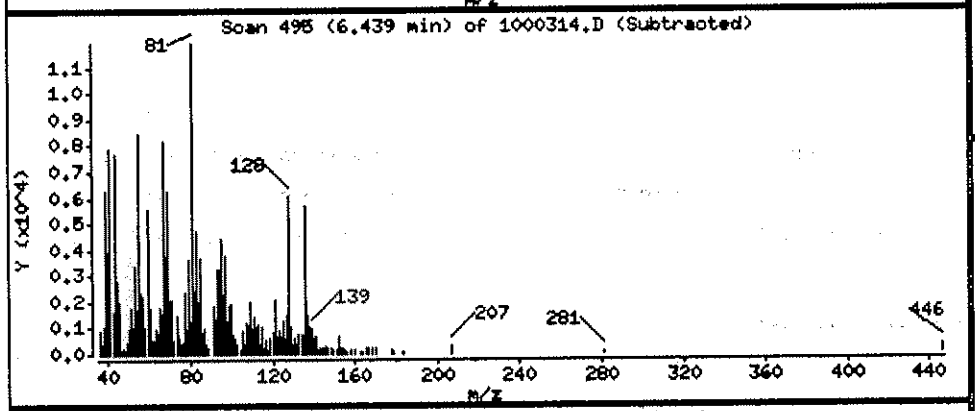
Sample Info: 1110003-14;1;1000;1000;1;UG/L;03-OCT-2011

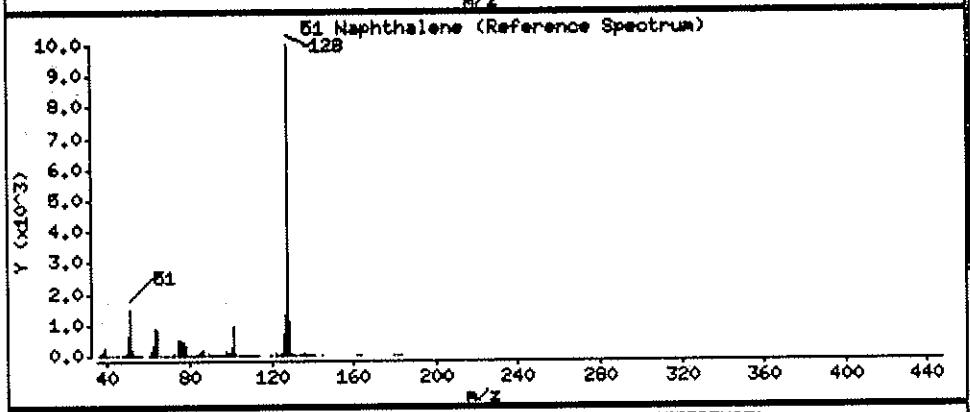
Volume Injected (uL): 1.0 Operator: MEC

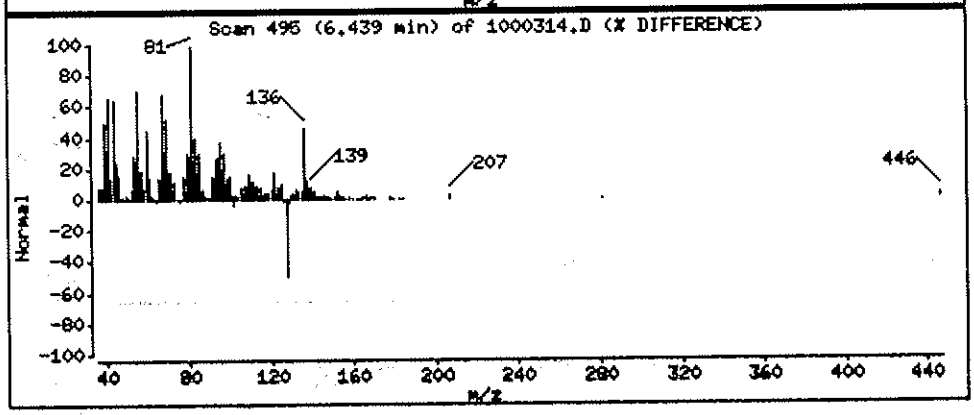
Column phase: fused silica Column diameter: 0.25

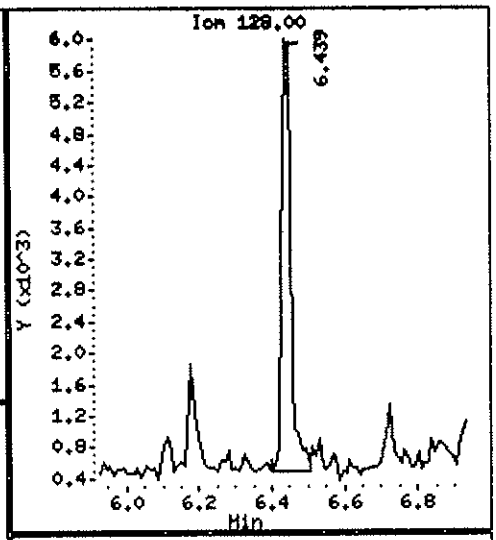
51 Naphthalene Concentration: 0.04530 UG/L

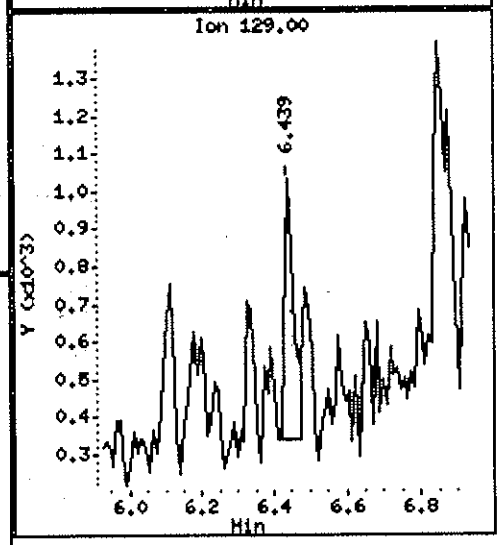












Data File: \\ELABNSHO5\TARGET\chem\bna4.i\10261134E.b\1000314.D

Date : 27-OCT-2011 02:09

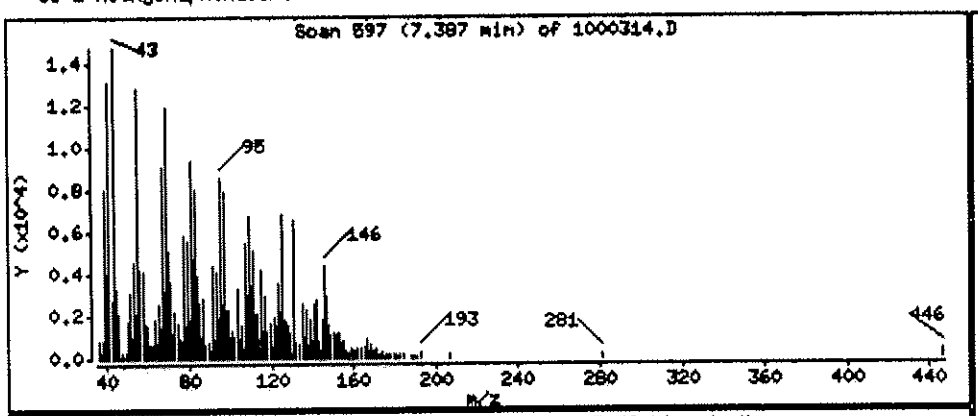
Client ID: FLC-5-MW02-092911 Instrument: bna4.i

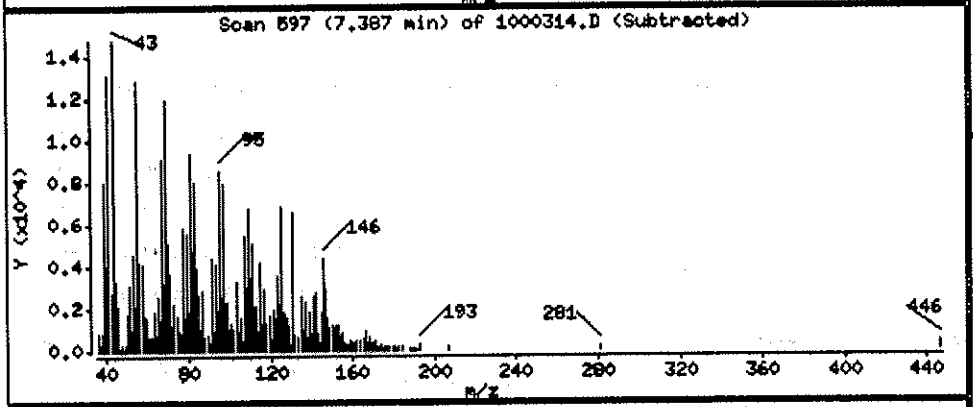
Sample Info: 1110003-14;1;1000;1000;1;UG/L;03-OCT-2011

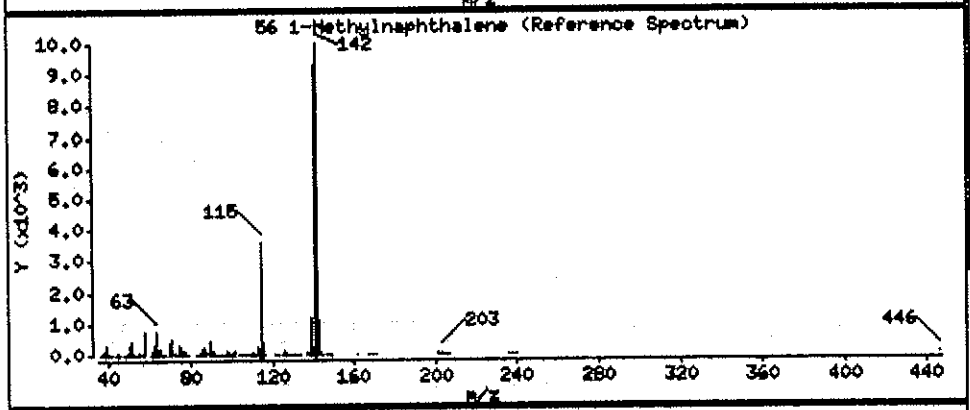
Volume Injected (uL): 1.0 Operator: MEC

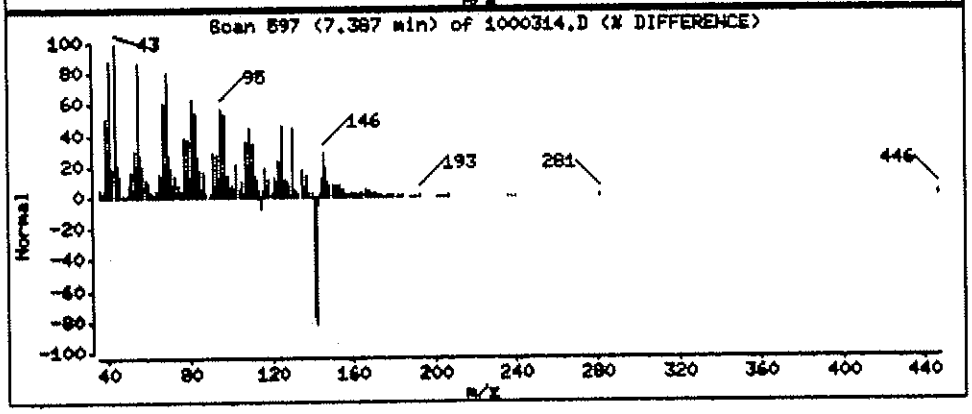
Column phase: fused silica Column diameter: 0.25

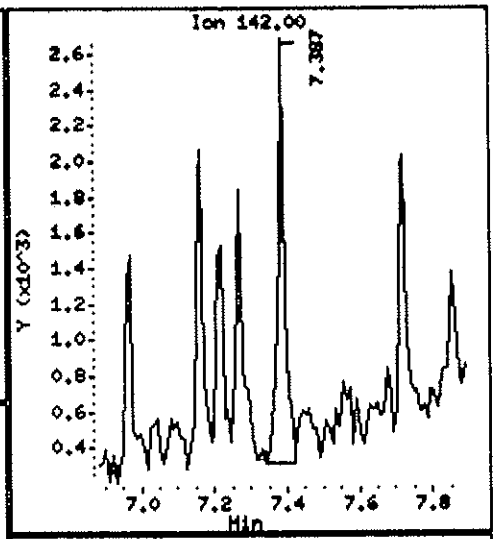
56 1-Methylnaphthalene Concentration: 0.02742 UG/L

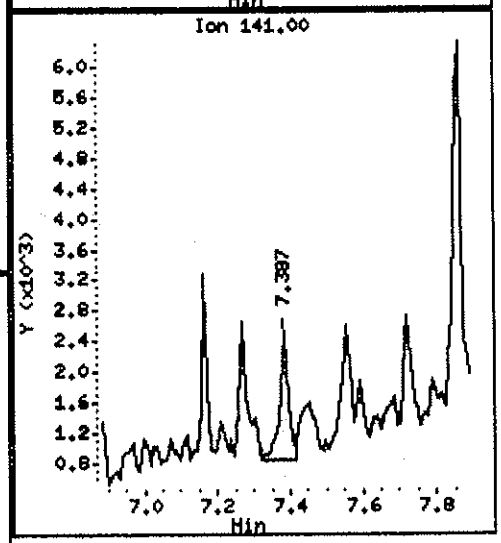












Data File: \\ELABNSH05\TARGET\chem\bna4.i\102611B4E.b\1000314.D

Date : 27-OCT-2011 02:09

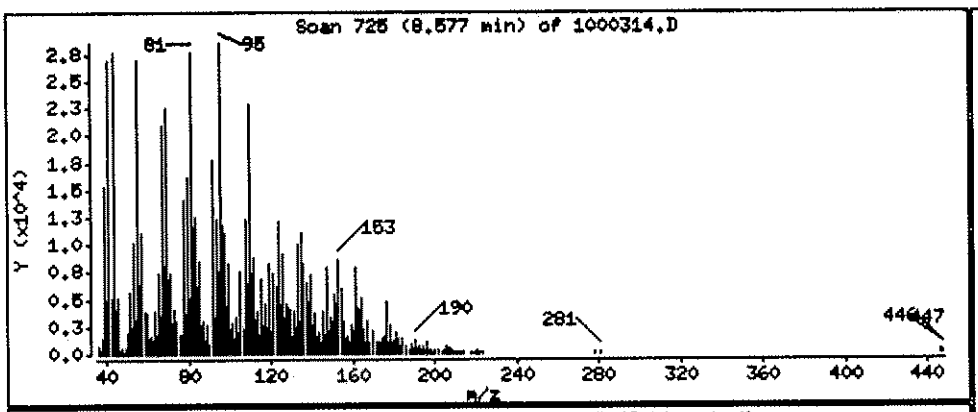
Client ID: FLC-5-MW02-092911 Instrument: bna4.i

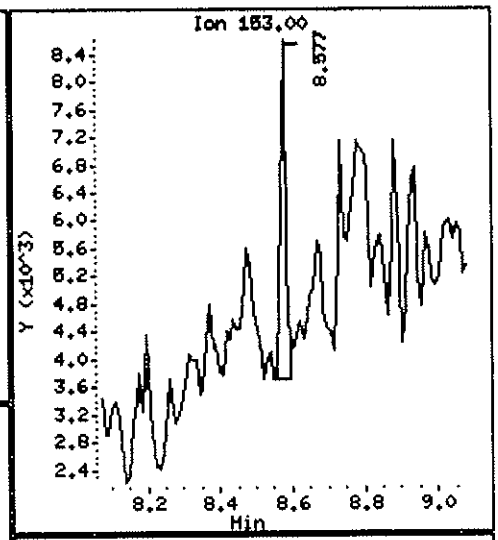
Sample Info: 1110003-14;1;1000;1000;1;UG/L;03-OCT-2011

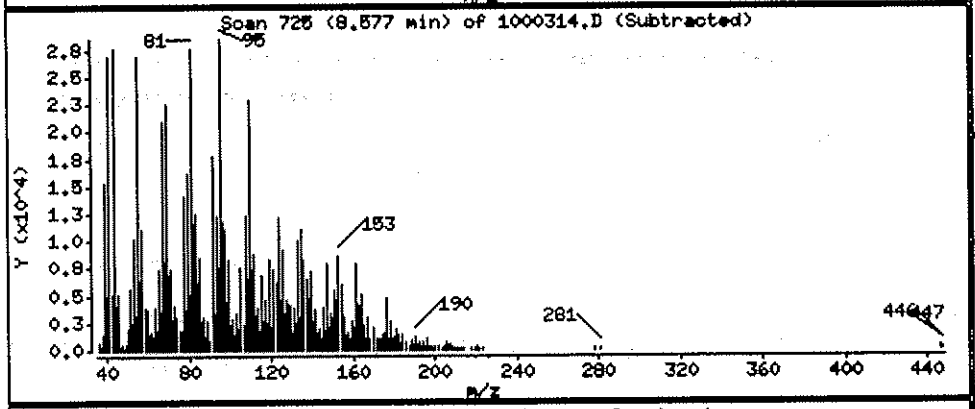
Volume Injected (uL): 1.0 Operator: HEC

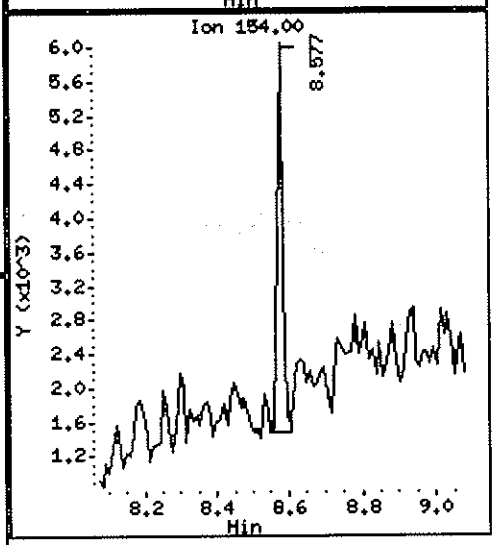
Column phase: fused silica Column diameter: 0.25

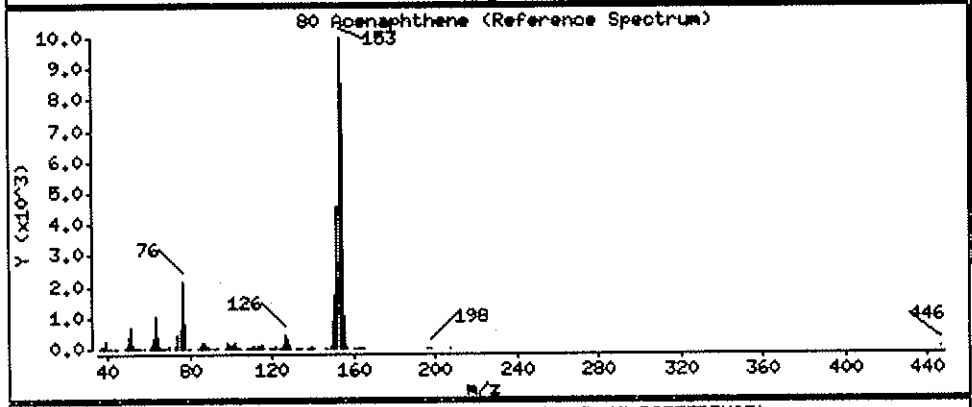
80 Acenaphthene Concentration: 0.04308 UG/L

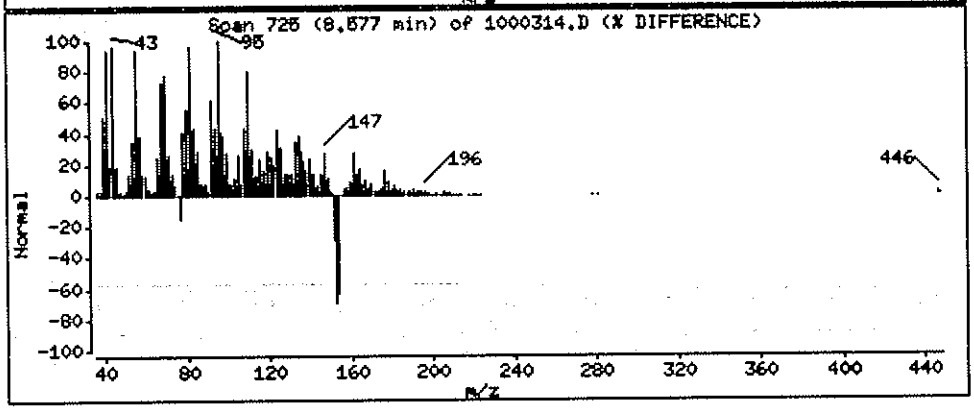












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Date : 27-OCT-2011 02:09

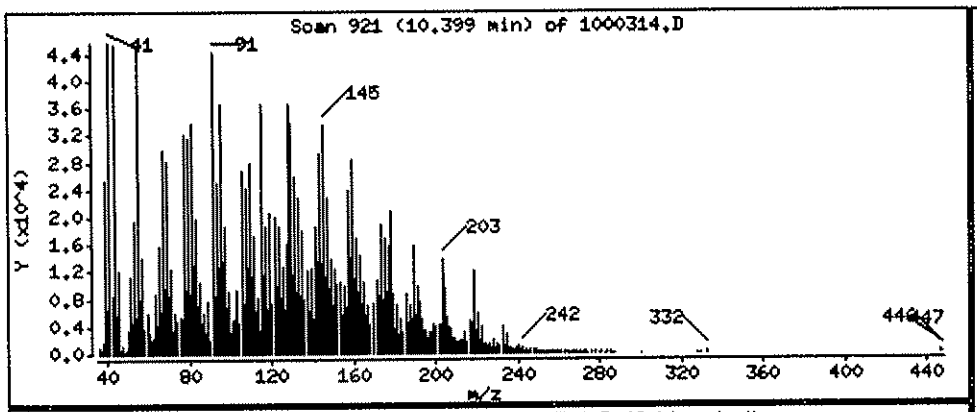
Client ID: FLC-5-HW02-092911 Instrument: bna4.i

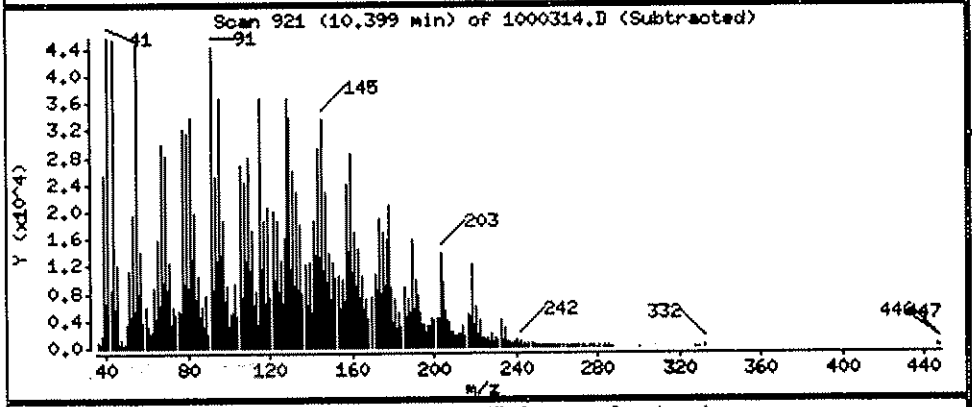
Sample Info: 1110003-14;1;1000;1000;1;UG/L;03-OCT-2011

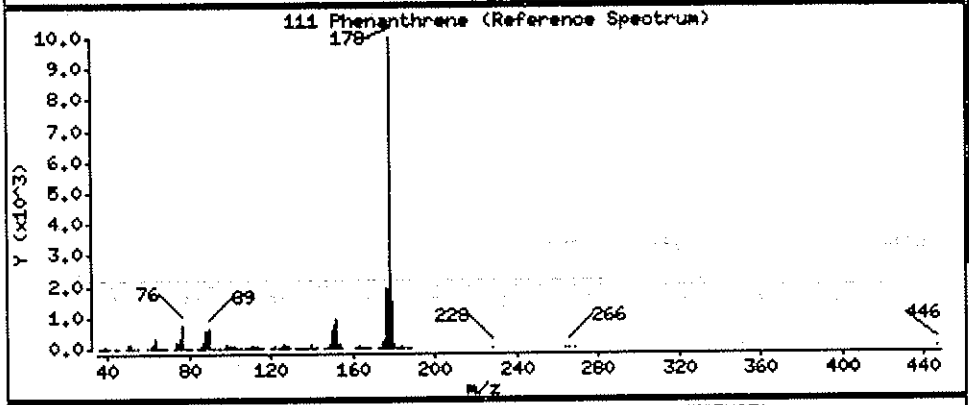
Volume Injected (uL): 1.0 Operator: MEC

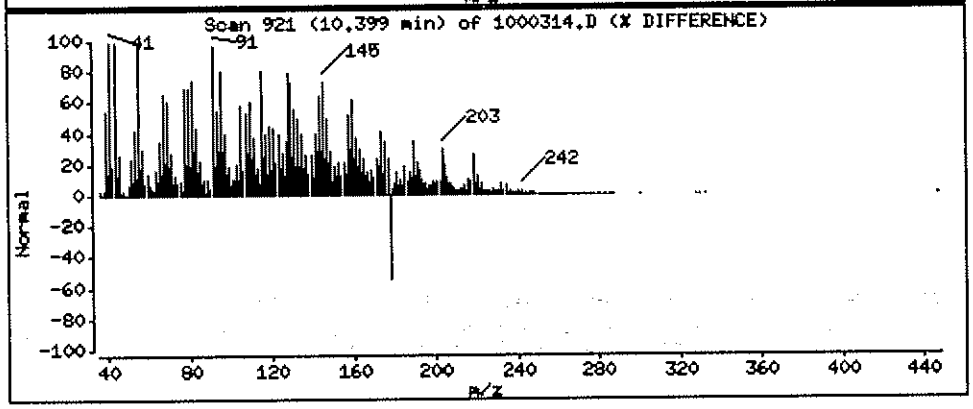
Column phase: fused silica Column diameter: 0.25

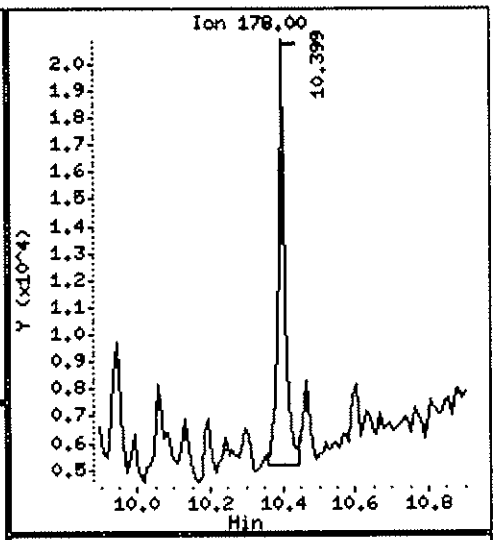
111 Phenanthrene Concentration: 0.1273 UG/L

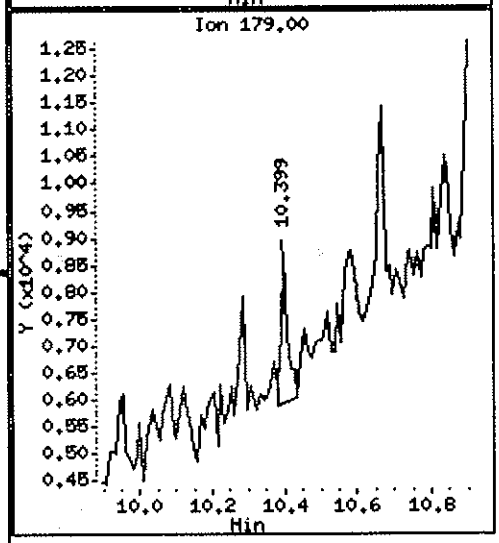












Data File: \\ELAINSH06\TARGET\chem\bna4.i\102611B4E.b\1000314.D

Date : 27-OCT-2011 02:09

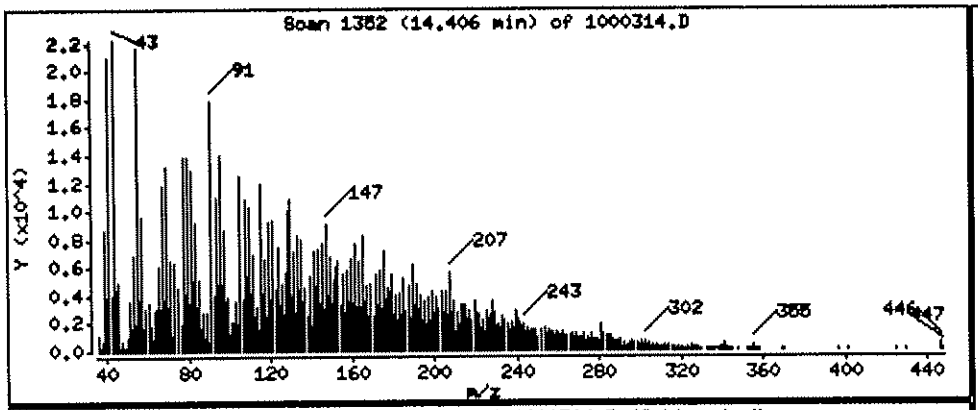
Client ID: FLC-5-MW02-092911 Instrument: bna4.i

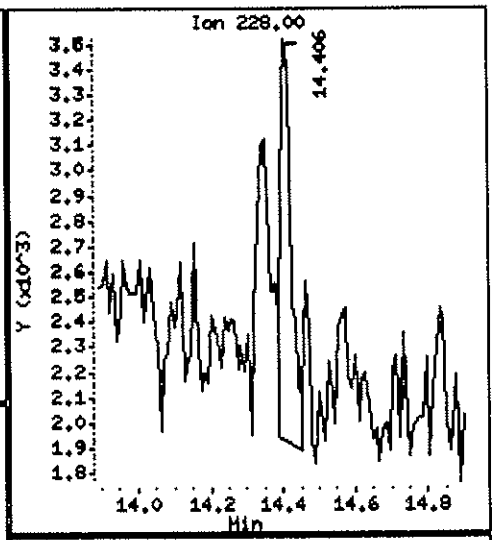
Sample Info: 1110003-14;1;1000;1000;1;UG/L;03-OCT-2011

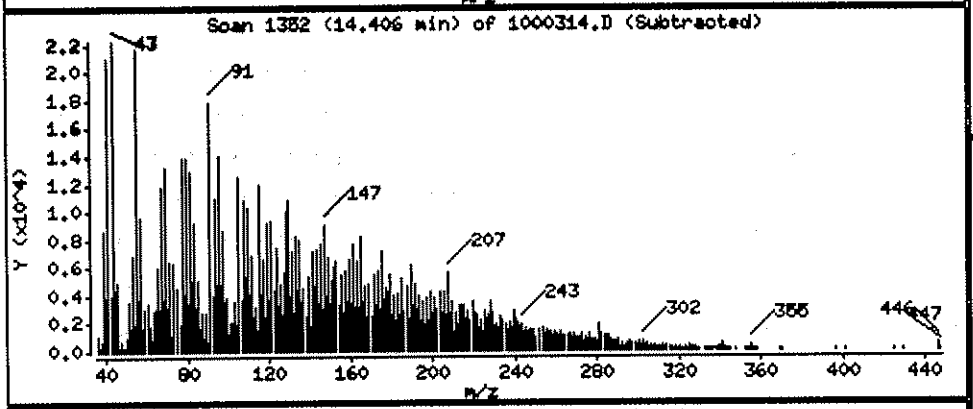
Volume Injected (uL): 1.0 Operator: HEC

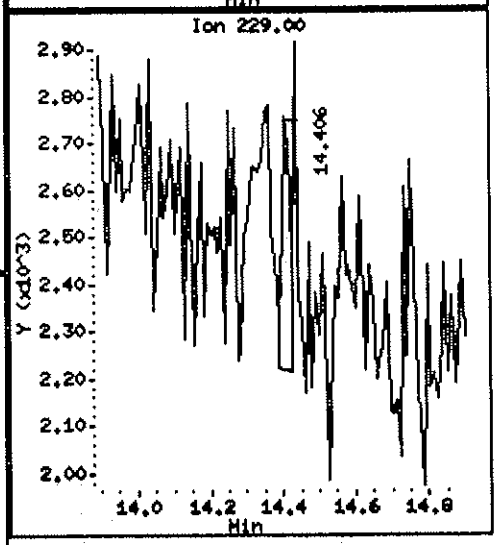
Column phase: fused silica Column diameter: 0.25

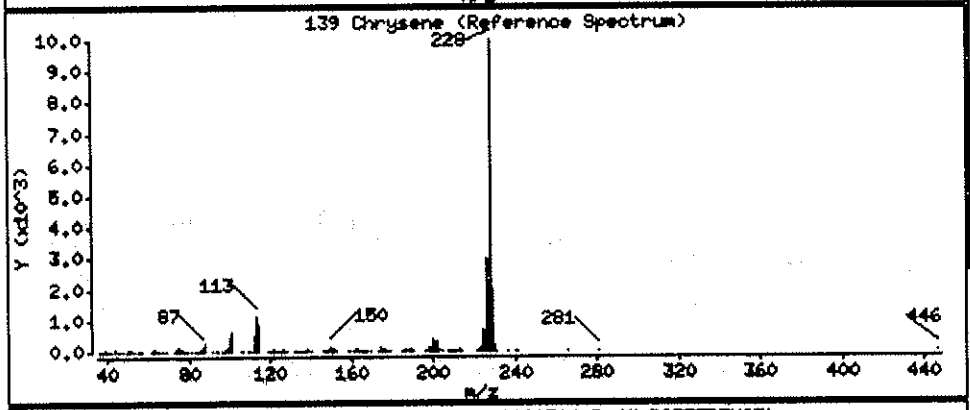
139 Chrysene Concentration: 0.03692 UG/L

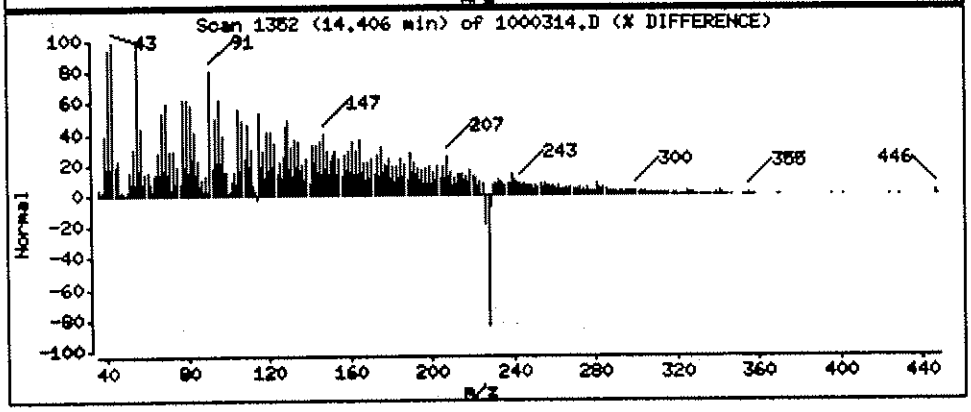












Data File: \\ELABNSHO5\TARGET\chem\bna4.i\102611B4E.b\1000314.D

Date : 27-OCT-2011 02:09

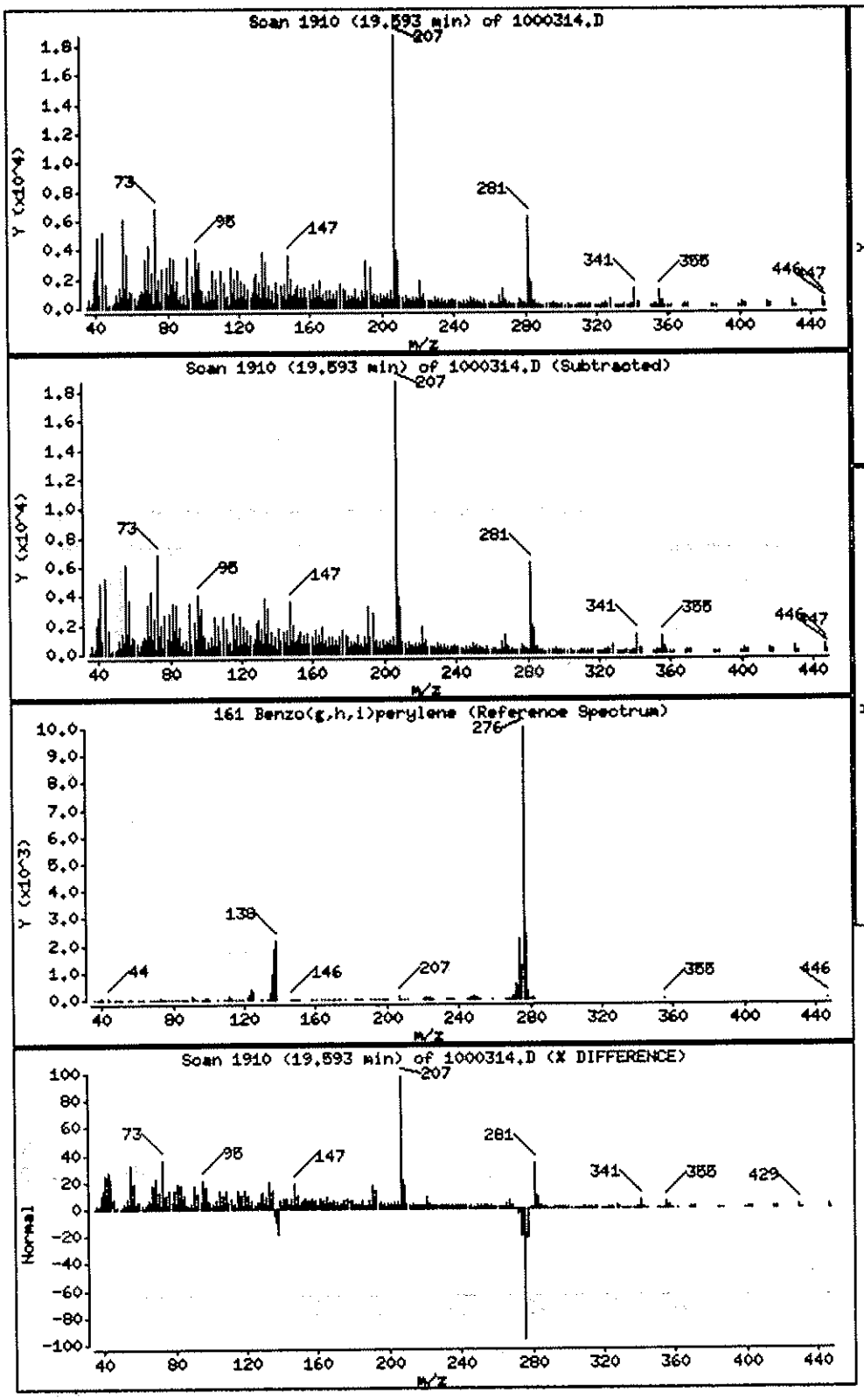
Client ID: FLC-5-MW02-092911 Instrument: bna4.i

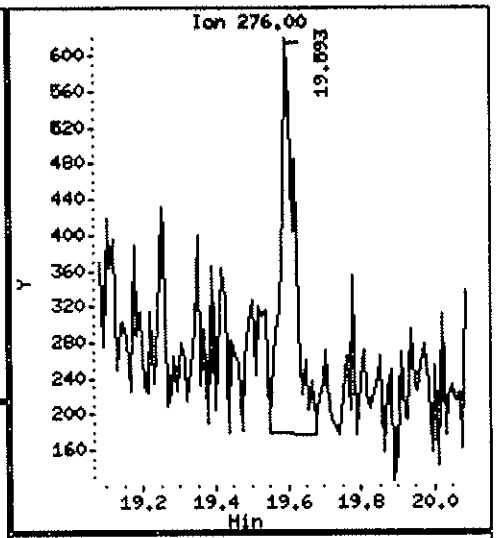
Sample Info: 1110003-14;1;1000;1000;1;UG/L;03-OCT-2011

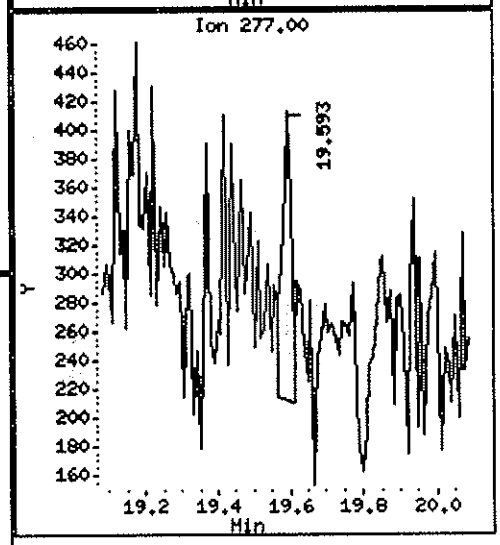
Volume Injected (uL): 1.0 Operator: MEC

Column phase: fused silica Column diameter: 0.25

161 Benzo(g,h,i)perylene Concentration: 0.02522 UG/L







Data File: \\ELABNSH05\TARGET\chem\bna4.i\102611B4E.b\1000312M.D
Report Date: 28-Oct-2011 10:42

Laboratory Name

Data file : \\ELABNSH05\TARGET\chem\bna4.i\102611B4E.b\1000312M.D
Lab Smp Id: 1J03003-MS2 Client Smp ID: 1J03003-MS2
Inj Date : 27-OCT-2011 02:38 MS Autotune Date: 23-OCT-2011 10:06
Operator : MEC Inst ID: bna4.i
Smp Info : 1J03003-MS2;1;1000;1000;1;UG/L;03-OCT-2011
Misc Info : ;3;MS;;;1J03003;pahmisc.sub;
Comment :
Method : \\ELABNSH05\TARGET\chem\bna4.i\102611B4E.b\IXBN4LOW.m
Meth Date : 28-Oct-2011 10:39 mcobb Quant Type: ISTD
Cal Date : 24-AUG-2011 18:33 Cal File: SEQ-CAL9.D
Als bottle: 33 QC Sample: MS
Dil Factor: 1.00000
Integrator: HP RTE Compound Sublist: pahmisc.sub
Target Version: 4.04
Processing Host: TARGET09_VM

Concentration Formula: Amt * DF * Uf * Vt* Vi/(Amt * Vi)

Name	Value	Description
DF	1.000	Dilution Factor
Uf	1.000	ng unit correction factor
Vt	1000.000	Volume of final extract (uL)
Vi	1.000	Volume injected (uL)
Amt	1000.000	Volume of initial extraction

Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS ON-COLUMN (ng/ul)	FINAL (ug/L)
* 102 Phenanthrene-d10	188	10.380	10.361	(1.000)	163206	1.00000	(M)
4 1,4-Dioxane	88	2.152	2.143	(1.000)	367462	10.4808	10.48 (R)
21 N-Nitroso-di-n-propylamine	70	5.415	5.397	(1.000)	2064321	34.9709	34.97
39 Isophorone	82	5.880	5.862	(1.000)	5126124	32.0745	32.07
51 Naphthalene	128	6.438	6.429	(1.000)	7550619	31.0812	31.08
53 Hexachlorobutadiene	225	6.577	6.578	(1.000)	1342261	29.6400	29.64
55 2-Methylnaphthalene	142	7.275	7.266	(1.000)	4906259	33.7119	33.71
56 1-Methylnaphthalene	142	7.395	7.386	(1.000)	5361494	37.9989	38.00
70 Hexachlorocyclopentadiene	237	7.451	7.451	(1.000)	559624	12.5016	12.50
$ 74 2-Fluorobiphenyl	172	7.721	7.712	(1.000)	4420851	28.6666	28.67
77 Acenaphthylene	152	8.372	8.362	(1.000)	6292807	29.7666	29.77
80 Acenaphthene	153	8.595	8.576	(1.000)	5184455	35.7683	35.77
84 Dibenzofuran	168	8.809	8.790	(1.000)	6283140	35.9364	35.94
88 Fluorene	166	9.227	9.208	(1.000)	5000848	36.1775	36.18

MEC

Data File: \\ELABNSH05\TARGET\chem\bna4.i\102611B4E.b\1000312M.D
Report Date: 28-Oct-2011 10:42

Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS ON-COLUMN (ng/ul)	FINAL (ug/L)
104 Carbazole	167	10.696	10.668	(1.000)	5880330	45.2870	45.29
110 Pentachlorophenol	266	10.156	10.138	(1.000)	716543	26.9598	26.96
$ 107 2,4,6-Tribromophenol	330	9.534	9.506	(1.000)	1645019	58.2204	58.22
111 Phenanthrene	178	10.417	10.398	(1.000)	7039704	37.0677	37.07
109 Hexachlorobenzene	284	9.896	9.878	(1.000)	2239155	38.3123	38.31
112 Anthracene	178	10.482	10.463	(1.000)	6646939	35.7086	35.71
116 Fluoranthene	202	11.969	11.932	(1.000)	7405571	41.4077	41.41
134 Pyrene	202	12.304	12.267	(1.000)	7605482	41.8918	41.89
* 154 Perylene-d12	264	17.101	17.082	(1.000)	77512	1.00000	
$ 135 Terphenyl-d14	244	12.555	12.537	(1.000)	2021449	19.5285	19.53
138 Benzo(a)anthracene	228	14.368	14.331	(1.000)	5528289	48.5940	48.59
139 Chrysene	228	14.433	14.396	(1.000)	5102846	44.5462	44.55(H)
140 Bis(2-ethylhexyl)phthalate	149	14.535	14.507	(0.850)	6763932	52.8499	52.85(A)
155 Di-n-octylphthalate	149	15.827	15.809	(0.926)	10231938	57.8229	57.82(A)
156 Benzo(b)fluoranthene	252	16.413	16.376	(0.960)	4436529	42.8715	42.87
157 Benzo(k)fluoranthene	252	16.469	16.432	(0.963)	4390619	41.9236	41.92(H)
158 Benzo(a)pyrene	252	17.008	16.980	(0.995)	3482068	39.9182	39.92
159 Indeno(1,2,3-cd)pyrene	276	19.072	19.044	(1.115)	2784945	44.5056	44.50
160 Dibenz(a,h)anthracene	278	19.137	19.109	(1.119)	2824967	46.0083	46.01
161 Benzo(g,h,i)perylene	276	19.620	19.583	(1.147)	2731361	43.1657	43.16

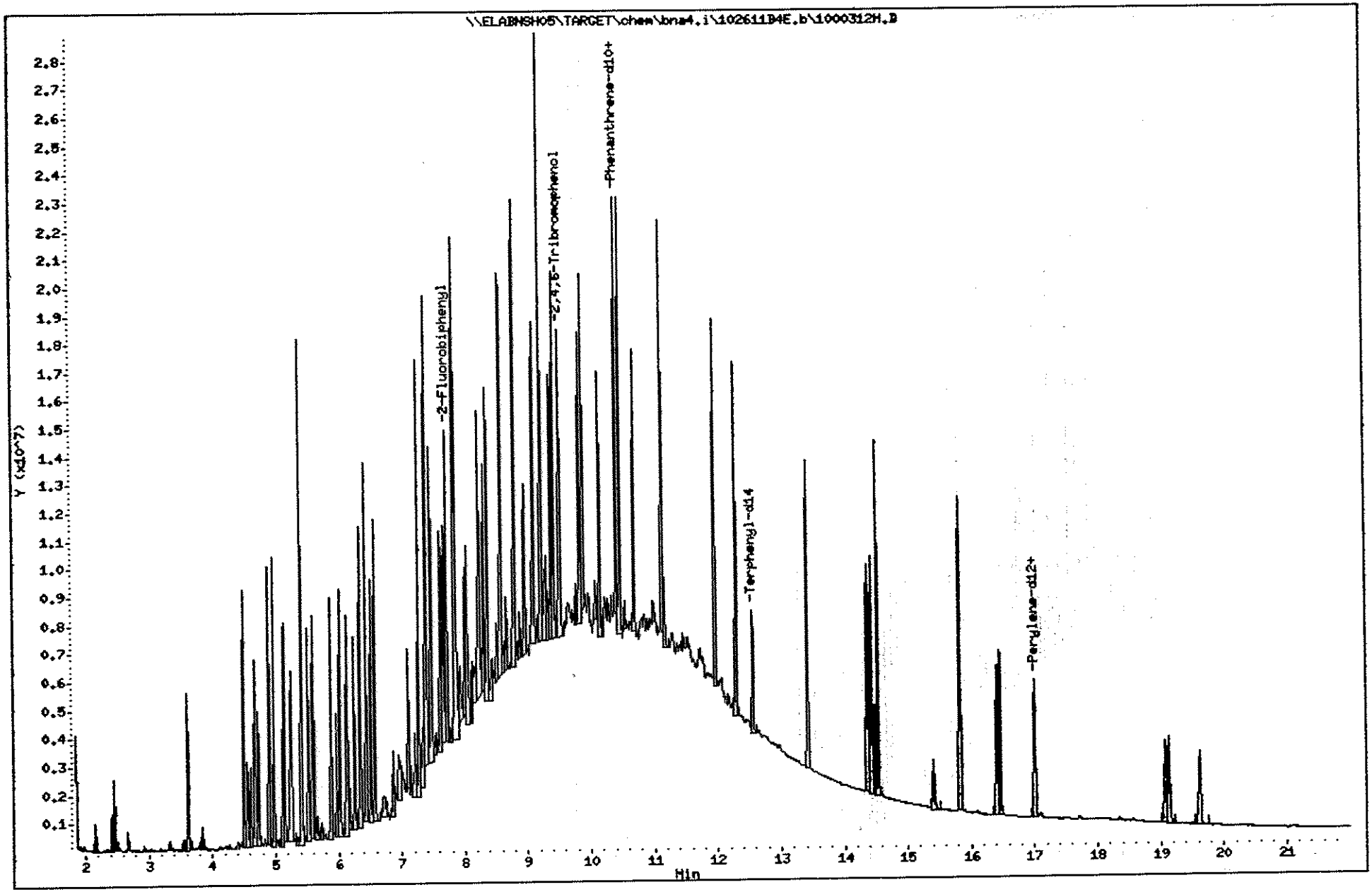
QC Flag Legend

A - Target compound detected but, quantitated amount exceeded maximum amount.
R - Spike/Surrogate failed recovery limits.
M - Compound response manually integrated.
H - Operator selected an alternate compound hit.

Data File: \\ELABNSH05\TARGET\chem\bna4.i\102611B4E.b\1000312H.D
Date : 27-OCT-2011 02:38
Client ID: 1J03003-MS2
Sample Info: 1J03003-MS2;1;1000;1000;1;UG/L;03-OCT-2011
Volume Injected (uL): 1.0
Column phase: fused silica

Instrument: bna4.i

Operator: MEC
Column diameter: 0.25

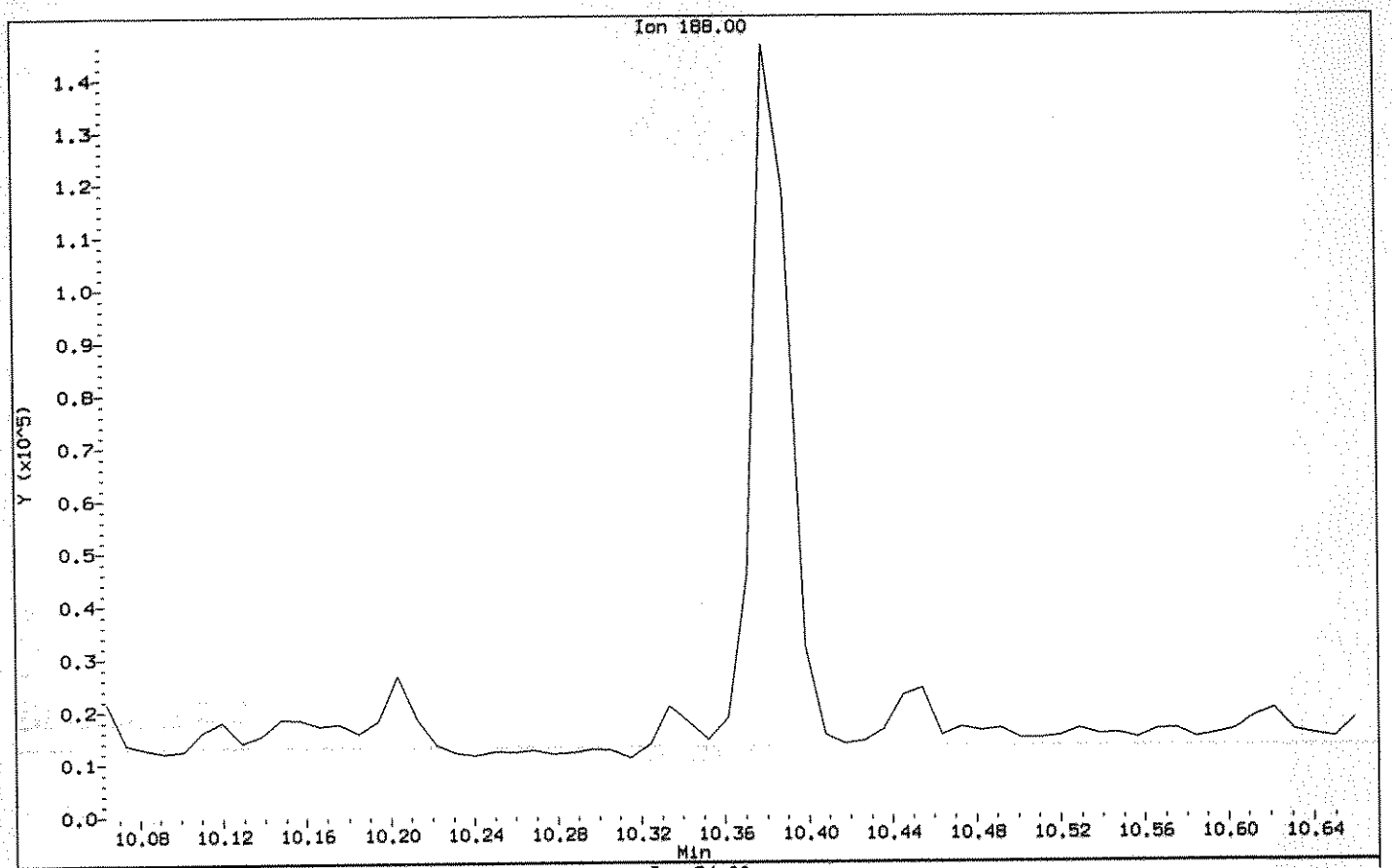


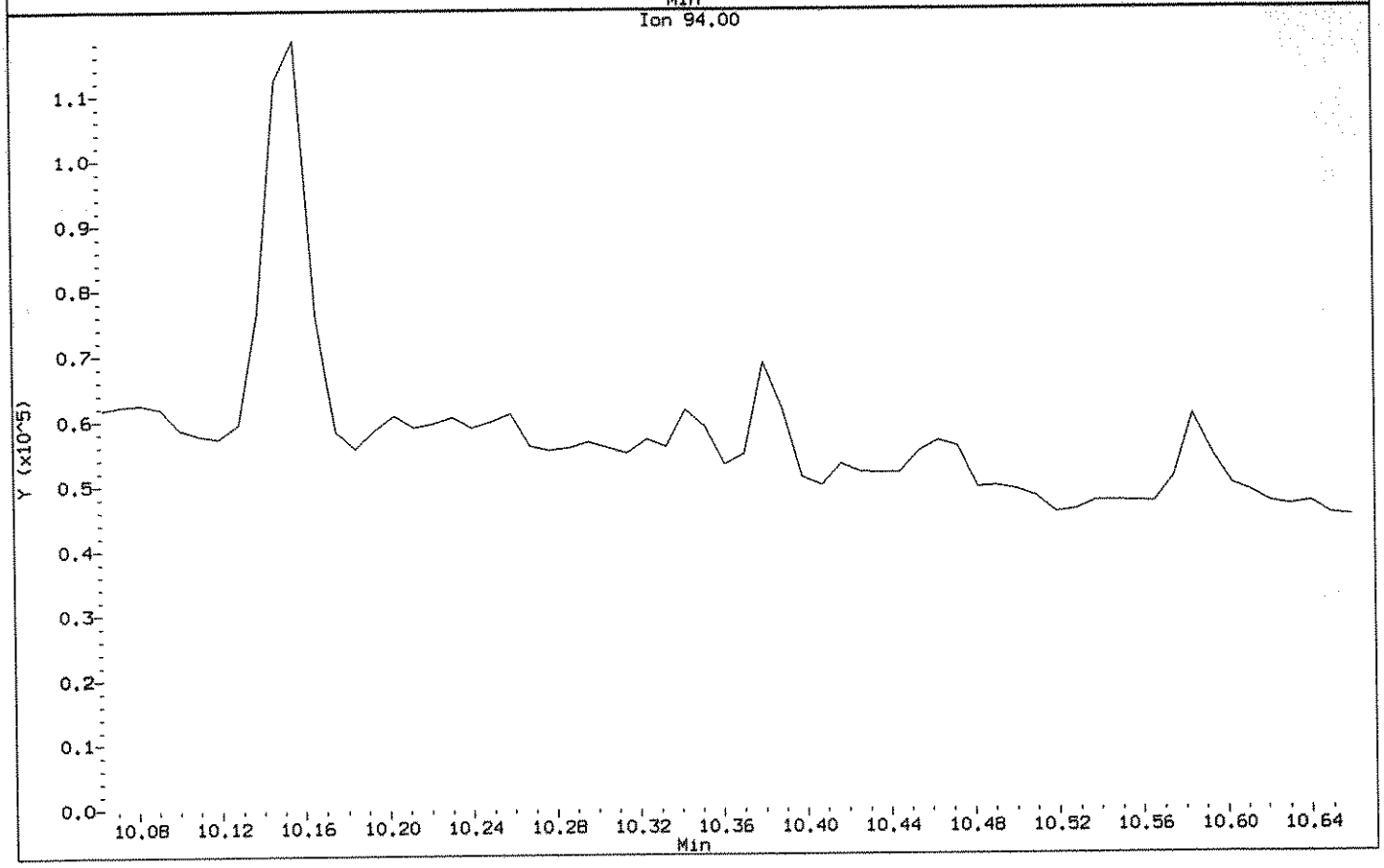
775

1110003

Data File: \\ELABNSHO5\TARGET\chem\bna4.i\102611B4E.b\1000312M.D
Injection Date: 27-OCT-2011 02:38
Instrument: bna4.i
Client Sample ID: 1J03003-MS2

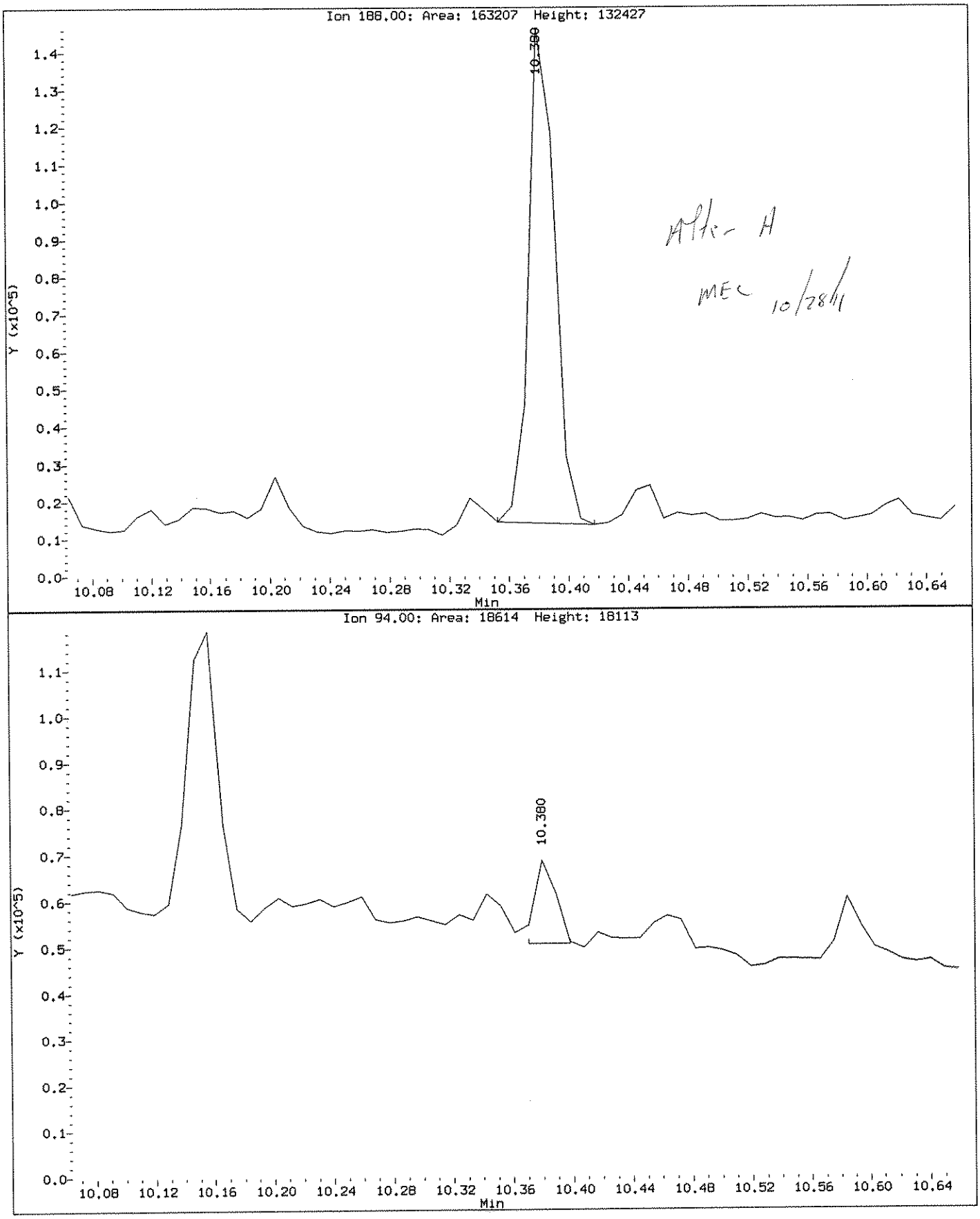
Compound: Phenanthrene-d10
CAS Number: 1517-22-2





Data File: \\ELABNSHO5\TARGET\chem\bna4.i\102611B4E.b\1000312M.D
Injection Date: 27-OCT-2011 02:38
Instrument: bna4.i
Client Sample ID: 1J03003-MS2

Compound: Phenanthrene-d10
CAS Number: 1517-22-2



Mike H
MEC 10/28/11

Data File: \\ELABNSH05\TARGET\chem\bna4.i\102611B4E.b\1000312S.D
Report Date: 28-Oct-2011 10:42

Laboratory Name

11.1.11

Data file : \\ELABNSH05\TARGET\chem\bna4.i\102611B4E.b\1000312S.D
Lab Smp Id: 1J03003-MSD2 Client Smp ID: 1J03003-MSD2
Inj Date : 27-OCT-2011 03:07 MS Autotune Date: 23-OCT-2011 10:06
Operator : MEC Inst ID: bna4.i
Smp Info : 1J03003-MSD2;1;1000;1000;1;UG/L;03-OCT-2011
Misc Info : ;3;MSD;;;1J03003;pahmisc.sub;
Comment :
Method : \\ELABNSH05\TARGET\chem\bna4.i\102611B4E.b\IXBN4LOW.m
Meth Date : 28-Oct-2011 10:39 mcobb Quant Type: ISTD
Cal Date : 24-AUG-2011 18:33 Cal File: SEQ-CAL9.D
Als bottle: 34 QC Sample: MSD
Dil Factor: 1.00000
Integrator: HP RTE Compound Sublist: pahmisc.sub
Target Version: 4.04
Processing Host: TARGET09_VM

Concentration Formula: Amt * DF * Uf * Vt* Vi/(Amt * Vi)

Name	Value	Description
DF	1.000	Dilution Factor
Uf	1.000	ng unit correction factor
Vt	1000.000	Volume of final extract (uL)
Vi	1.000	Volume injected (uL)
Amt	1000.000	Volume of initial extraction

Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS ON-COLUMN (ng/ul)	FINAL (ug/L)
* 102 Phenanthrene-d10	188	10.380	10.361	(1.000)	159083	1.00000	(M)
4 1,4-Dioxane	88	2.143	2.143	(1.000)	286644	8.38763	8.388(R)
21 N-Nitroso-di-n-propylamine	70	5.406	5.397	(1.000)	1472448	25.5907	25.59
39 Isophorone	82	5.880	5.862	(1.000)	3659083	23.4885	23.49(R)
51 Naphthalene	128	6.438	6.429	(1.000)	5807174	24.5241	24.52
53 Hexachlorobutadiene	225	6.577	6.578	(1.000)	1018791	23.0801	23.08
55 2-Methylnaphthalene	142	7.275	7.266	(1.000)	3788858	26.7087	26.71
56 1-Methylnaphthalene	142	7.396	7.386	(1.000)	4141007	30.1095	30.11
70 Hexachlorocyclopentadiene	237	7.451	7.451	(1.000)	541766	12.4187	12.42
$ 74 2-Fluorobiphenyl	172	7.721	7.712	(1.000)	3332808	22.1714	22.17
77 Acenaphthylene	152	8.372	8.362	(1.000)	4902904	23.7930	23.79(R)
80 Acenaphthene	153	8.585	8.576	(1.000)	3930183	27.8176	27.82
84 Dibenzofuran	168	8.799	8.790	(1.000)	4956420	29.0829	29.08
88 Fluorene	166	9.227	9.208	(1.000)	3994715	29.6478	29.65

MEC
10/28/11

Data File: \\ELABNSH05\TARGET\chem\bna4.i\102611B4E.b\1000312S.D
Report Date: 28-Oct-2011 10:42

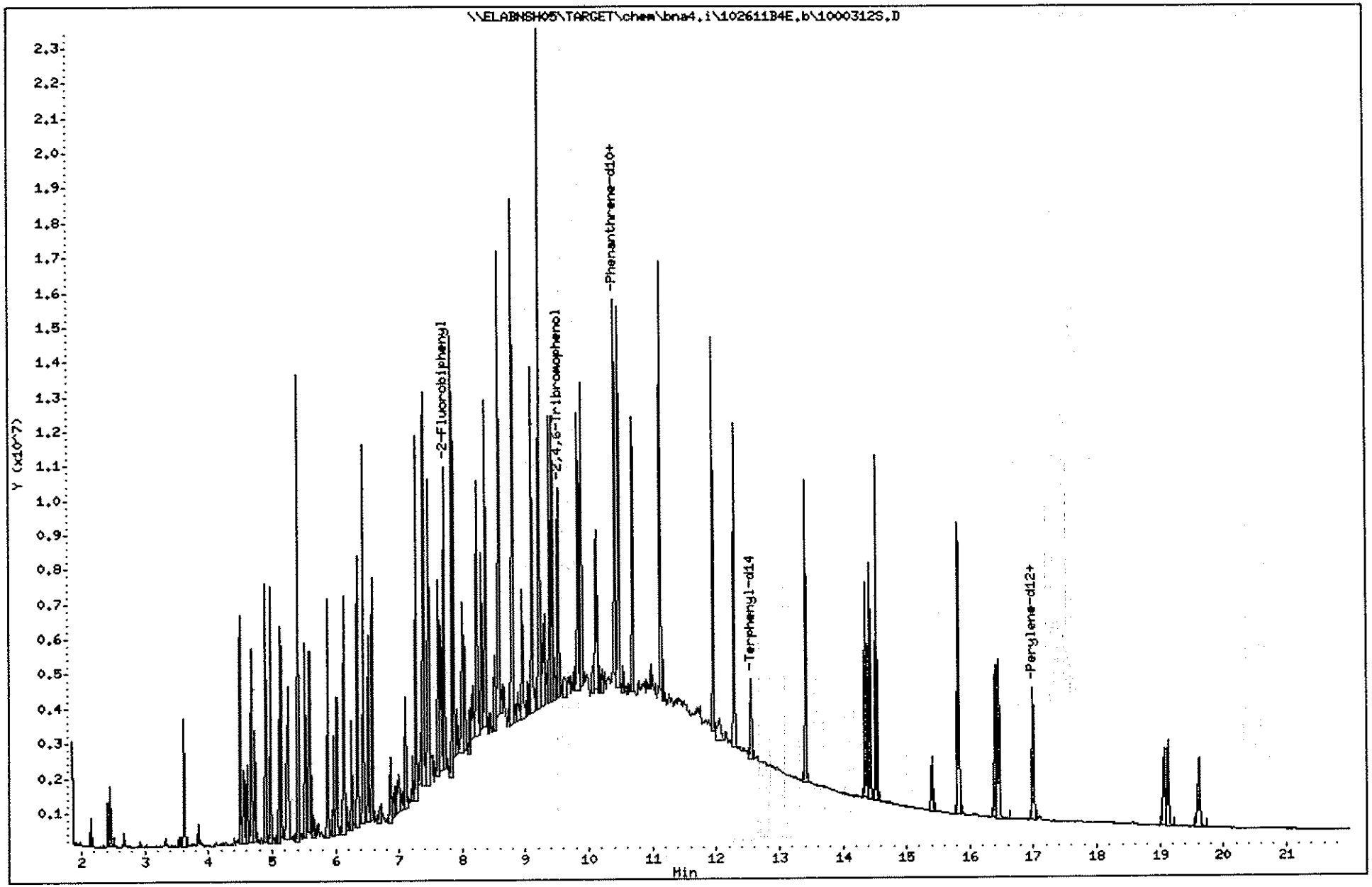
Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS ON-COLUMN (ng/ul)	FINAL (ug/L)
104 Carbazole	167	10.686	10.668	(1.000)	4614103	36.4562	36.46
110 Pentachlorophenol	266	10.147	10.138	(1.000)	406849	16.3539	16.35(R)
$ 107 2,4,6-Tribromophenol	330	9.524	9.506	(1.000)	905314	32.8712	32.87
111 Phenanthrene	178	10.408	10.398	(1.000)	5651480	30.5292	30.53
109 Hexachlorobenzene	284	9.887	9.878	(1.000)	1731734	30.3982	30.40
112 Anthracene	178	10.473	10.463	(1.000)	5241668	28.8891	28.89
116 Fluoranthene	202	11.960	11.932	(1.000)	5670812	32.5297	32.53
134 Pyrene	202	12.295	12.267	(1.000)	5850676	33.0614	33.06
* 154 Perylene-d12	264	17.092	17.082	(1.000)	74909	1.00000	
$ 135 Terphenyl-d14	244	12.546	12.537	(1.000)	1073544	10.6399	10.64
138 Benzo(a)anthracene	228	14.358	14.331	(1.000)	4209931	37.9646	37.96
139 Chrysene	228	14.424	14.396	(1.000)	3924494	35.1475	35.15
140 Bis(2-ethylhexyl)phthalate	149	14.526	14.507	(0.850)	5292657	42.7911	42.79
155 Di-n-octylphthalate	149	15.818	15.809	(0.925)	8017699	46.8842	46.88
156 Benzo(b)fluoranthene	252	16.404	16.376	(0.960)	3383927	33.8362	33.84
157 Benzo(k)fluoranthene	252	16.459	16.432	(0.963)	3461067	34.1962	34.20
158 Benzo(a)pyrene	252	16.999	16.980	(0.995)	2674503	31.7257	31.72
159 Indeno(1,2,3-cd)pyrene	276	19.062	19.044	(1.115)	2128179	35.1917	35.19
160 Dibenz(a,h)anthracene	278	19.128	19.109	(1.119)	2134457	35.9704	35.97
161 Benzo(g,h,i)perylene	276	19.620	19.583	(1.148)	2126547	34.7752	34.78

QC Flag Legend

R - Spike/Surrogate failed recovery limits.
M - Compound response manually integrated.

Data File: \\ELABNSH05\TARGET\chem\bna4.i\102611B4E.b\1000312S.D
Date : 27-OCT-2011 03:07
Client ID: 1J03003-HSD2
Sample Info: 1J03003-HSD2;1;1000;1000;1;UG/L;03-OCT-2011
Volume Injected (uL): 1.0
Column phase: fused silica

Instrument: bna4.i
Operator: HEC
Column diameter: 0.25

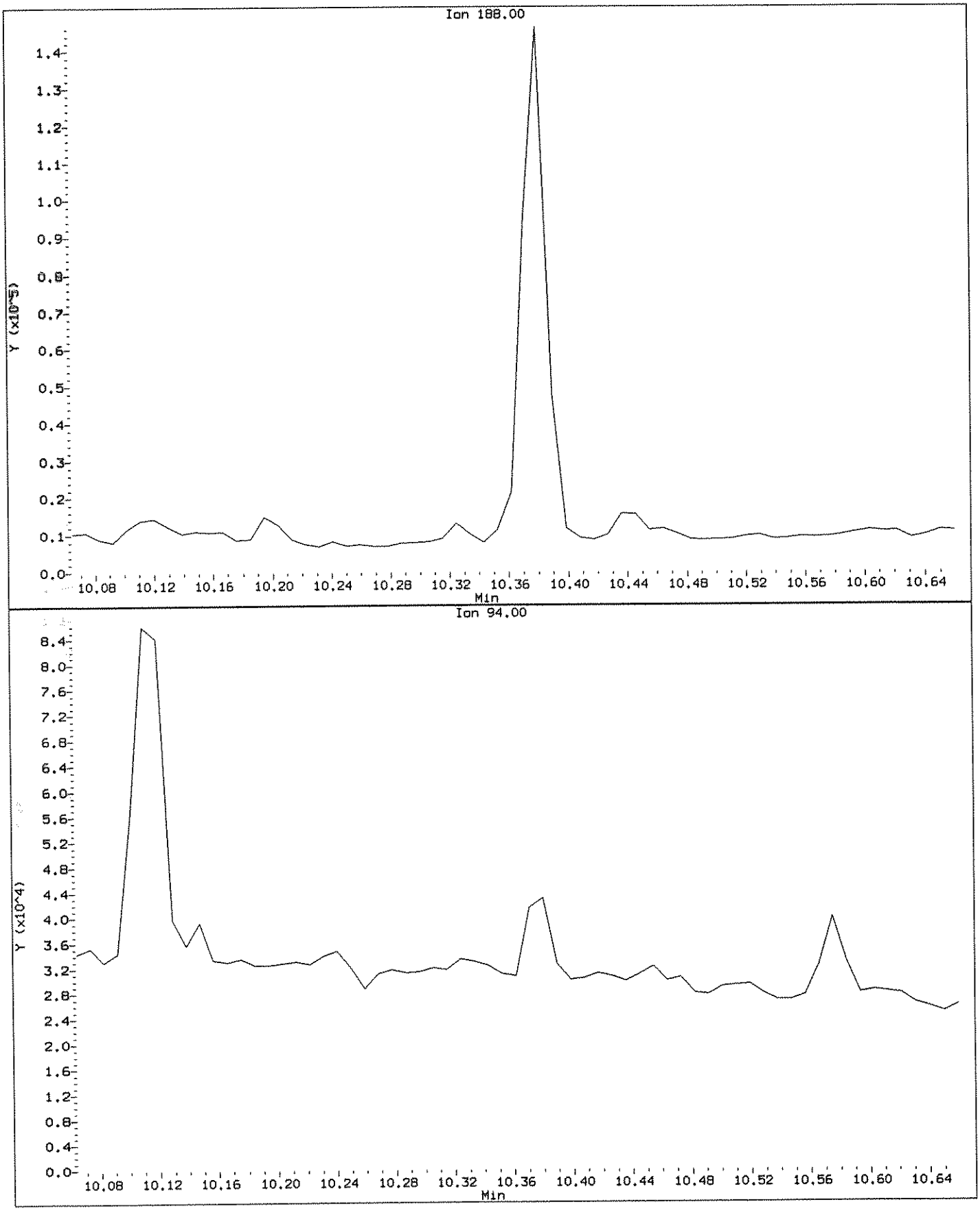


780

1110003

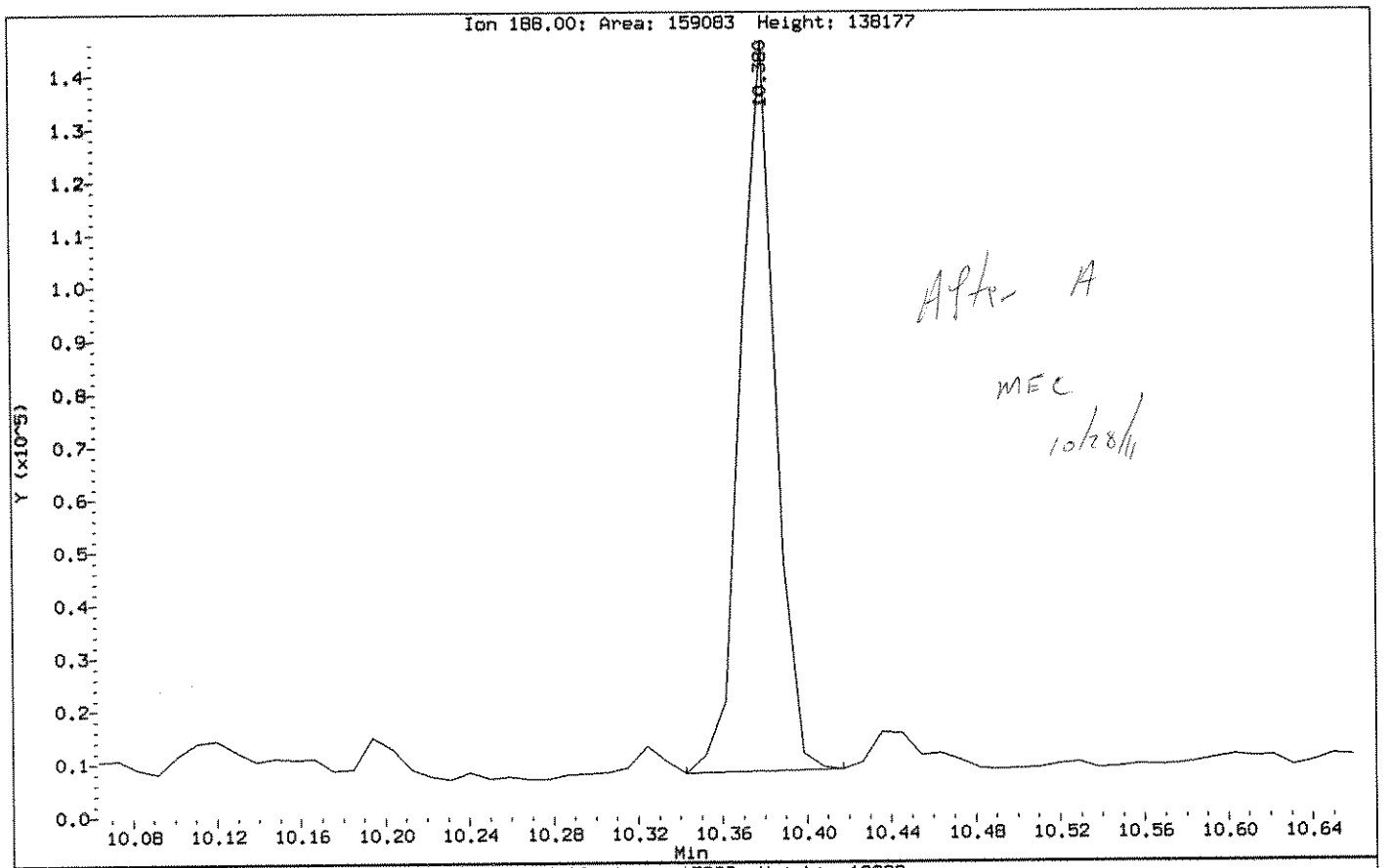
Data File: \\ELABNSHO5\TARGET\chem\bna4.i\102611B4E.b\10003125.D
Injection Date: 27-OCT-2011 03:07
Instrument: bna4.i
Client Sample ID: 1J03003-MSD2

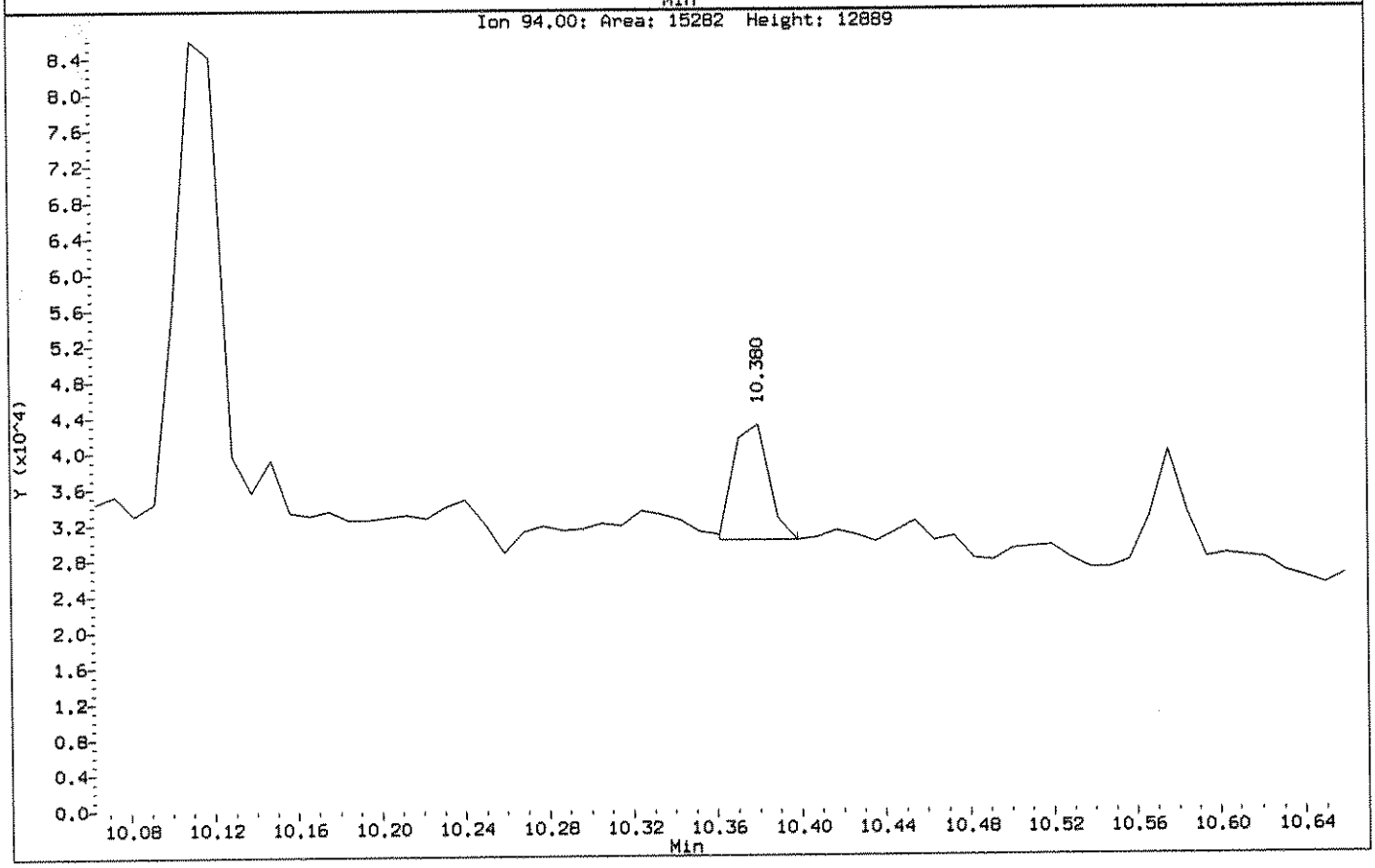
Compound: Phenanthrene-d10
CAS Number: 1517-22-2



Data File: \\ELABNSHO5\TARGET\chem\bna4.i\10261194E.b\10003125.D
Injection Date: 27-OCT-2011 03:07
Instrument: bna4.i
Client Sample ID: 1J03003-MSD2

Compound: Phenanthrene-d10
CAS Number: 1517-22-2





PREPARATION BENCH SHEET

1J03003

Empirical Laboratories, LLC **Printed: 10/20/2011 10:05:18AM**

Instrument:

783

Matrix: Water **Prepared using: EXT - EXT_3510** **Surrogate used: 11I0104**

Lab Number	Cont ID	Analysis	Prepared	Initial (mL)	Final (mL)	Spike ID	Source ID	ul Spike	ul Surrogate	PH	Extraction Comments
1109252-01	P	SMS_BNA_8270C_3510_REG	10/03/2011	1060	1				500	NA	requires 3-Methlphenol/4-Methylphenol,LOW SAMPLE VOLUME
1109252-03	O	SMS_BNA_8270C_3510_REG	10/03/2011	1020	1				500	NA	use both 1x&100x-ADM
1109252-03RE1	O	SMS_BNA_8270C_3510_REG	10/03/2011	1020	1				500	NA	use both 1x&100x-ADM
1109252-05	O	SMS_BNA_8270C_3510_REG	10/03/2011	1060	1				500	NA	use 100x-NO LOWER DIL-ADM
1109252-05RE1	O	SMS_BNA_8270C_3510_REG	10/03/2011	1060	1				500	NA	RR 200x for acetophenone-ADM
1110003-01	I	SMS_BNA_8270C_3510_REG	10/03/2011	1070	1				500	NA	
1110003-01	I	SMS_BNA_8270C_LOW_3510	10/03/2011	1070	1				500	NA	HCBD_PCP_PAHs for waters!
1110003-03	H	SMS_BNA_8270C_3510_REG	10/03/2011	1080	1				500	NA	
1110003-03	H	SMS_BNA_8270C_LOW_3510	10/03/2011	1080	1				500	NA	HCBD_PCP_PAHs for waters!
1110003-05	H	SMS_BNA_8270C_3510_REG	10/03/2011	1080	1				500	NA	
1110003-05	H	SMS_BNA_8270C_LOW_3510	10/03/2011	1080	1				500	NA	HCBD_PCP_PAHs for waters!
1110003-07	G	SMS_BNA_8270C_LOW_3510	10/03/2011	1080	1				500	NA	HCBD_PCP_PAHs for waters!
1110003-07	G	SMS_BNA_8270C_3510_REG	10/03/2011	1080	1				500	NA	
1110003-09	I	SMS_BNA_8270C_LOW_3510	10/03/2011	1080	1				500	NA	HCBD_PCP_PAHs for waters!
1110003-09	I	SMS_BNA_8270C_3510_REG	10/03/2011	1080	1				500	NA	
1110003-11	G	SMS_BNA_8270C_3510_REG	10/03/2011	1070	1				500	NA	
1110003-11	G	SMS_BNA_8270C_LOW_3510	10/03/2011	1070	1				500	NA	HCBD_PCP_PAHs for waters!
1110003-12	G	SMS_BNA_8270C_3510_REG	10/03/2011	1080	1				500	NA	MS/MSD
1110003-12	G	SMS_BNA_8270C_LOW_3510	10/03/2011	1080	1				500	NA	Added for BatchQC in: 1J03003
1110003-14	G	SMS_BNA_8270C_3510_REG	10/03/2011	1080	1				500	NA	
1110003-14	G	SMS_BNA_8270C_LOW_3510	10/03/2011	1080	1				500	NA	HCBD_PCP_PAHs for waters!
1J03003-BLK1		QC	10/03/2011	1000	1				500	NA	

1110003

Spiking Witnessed By Date

Preparation Reviewed By Date

Extracts Received By Date

PREPARATION BENCH SHEET

1J03003

Empirical Laboratories, LLC **Printed: 10/20/2011 10:05:18AM**

Instrument:

784

Matrix: Water **Prepared using: EXT - EXT_3510** **Surrogate used: 11I0104**

Lab Number	Cont ID	Analysis	Prepared	Initial (mL)	Final (mL)	Spike ID	Source ID	ul Spike	ul Surrogate	PH	Extraction Comments
1J03003-BLK2		QC	10/03/2011	1000	1				500	NA	LL
1J03003-BS1		QC	10/03/2011	1000	1	11I0554		500	500	NA	REG
1J03003-BS2		QC	10/03/2011	1000	1	11I0558		1000	500	NA	LL
1J03003-MS1		QC	10/03/2011	1080	1	11I0554	1110003-12	500	500	NA	REG
1J03003-MSD1		QC	10/03/2011	1080	1	11I0554	1110003-12	500	500	NA	REG

Reagents Used:

Standard	Description
11I0388	1:1 H2SO4/DIH2O
11I0389	10N NaOH for Extractions
11I0738	Methylene Chloride
11I0761	Sodium Sulfate Anhydrous

1110003

Spiking Witnessed By Date

Preparation Reviewed By Date

Extracts Received By Date

Data for SW8082A
Forms

ANALYSIS SEQUENCE SUMMARY

SW8082A

Laboratory:	Empirical Laboratories, LLC	SDG:	1110003
Client:	Tetra Tech NUS, Inc. (T010)	Project:	Navy Fuel Depot CTO JM46
Sequence:	1J28607	Instrument:	GL-ECD3
Calibration:	1286006		

Sample Name	Lab Sample ID	Lab File ID	Analysis Date/Time
Cal Standard	1J28607-CAL6	022F2201.D	10/10/11 17:52
Cal Standard	1J28607-CAL6	022R2201.D	10/10/11 17:52
Cal Standard	1J28607-CAL5	023F2301.D	10/10/11 18:11
Cal Standard	1J28607-CAL5	023R2301.D	10/10/11 18:11
Cal Standard	1J28607-CAL4	024F2401.D	10/10/11 18:29
Cal Standard	1J28607-CAL4	024R2401.D	10/10/11 18:29
Cal Standard	1J28607-CAL3	025F2501.D	10/10/11 18:48
Cal Standard	1J28607-CAL3	025R2501.D	10/10/11 18:48
Cal Standard	1J28607-CAL2	026F2601.D	10/10/11 19:07
Cal Standard	1J28607-CAL2	026R2601.D	10/10/11 19:07
Cal Standard	1J28607-CAL1	027R2701.D	10/10/11 19:26
Cal Standard	1J28607-CAL1	027F2701.D	10/10/11 19:26
Initial Cal Check	1J28607-ICV1	028R2801.D	10/10/11 19:45
Initial Cal Check	1J28607-ICV1	028F2801.D	10/10/11 19:45
Cal Standard	1J28607-CAL7	029R2901.D	10/10/11 20:03
Cal Standard	1J28607-CAL7	029F2901.D	10/10/11 20:03
Cal Standard	1J28607-CAL8	030R3001.D	10/10/11 20:22
Cal Standard	1J28607-CAL8	030F3001.D	10/10/11 20:22
Cal Standard	1J28607-CAL9	031F3101.D	10/10/11 20:41
Cal Standard	1J28607-CAL9	031R3101.D	10/10/11 20:41
Cal Standard	1J28607-CALA	032F3201.D	10/10/11 21:00
Cal Standard	1J28607-CALA	032R3201.D	10/10/11 21:00
Cal Standard	1J28607-CALB	033F3301.D	10/10/11 21:19
Cal Standard	1J28607-CALB	033R3301.D	10/10/11 21:19
Cal Standard	1J28607-CALC	034F3401.D	10/10/11 21:37
Cal Standard	1J28607-CALC	034R3401.D	10/10/11 21:37
Initial Cal Check	1J28607-ICV2	035R3501.D	10/10/11 21:56
Initial Cal Check	1J28607-ICV2	035F3501.D	10/10/11 21:56

ANALYSIS SEQUENCE SUMMARY

SW8082A

Laboratory:	Empirical Laboratories, LLC	SDG:	1110003
Client:	Tetra Tech NUS, Inc. (T010)	Project:	Navy Fuel Depot CTO JM46
Sequence:	1J28715	Instrument:	GL-ECD3
Calibration:	1286006		

Sample Name	Lab Sample ID	Lab File ID	Analysis Date/Time
Calibration Check	1J28715-CCV1	002R0201.D	10/12/11 13:35
Calibration Check	1J28715-CCV1	002F0201.D	10/12/11 13:35
Calibration Check	1J28715-CCV2	003R0301.D	10/12/11 13:54
Calibration Check	1J28715-CCV2	003F0301.D	10/12/11 13:54
Blank	1J04002-BLK1	005R0501.D	10/12/11 14:31
Blank	1J04002-BLK1	005F0501.D	10/12/11 14:31
LCS	1J04002-BS2	007R0701.D	10/12/11 15:09
LCS	1J04002-BS2	007F0701.D	10/12/11 15:09
FLC-4-MW01-092911	1110003-01	008F0801.D	10/12/11 15:27
FLC-4-MW01-092911	1110003-01	008R0801.D	10/12/11 15:27
FLC-4-MW02-092911	1110003-03	009F0901.D	10/12/11 15:46
FLC-4-MW02-092911	1110003-03	009R0901.D	10/12/11 15:46
FLC-5-MW05-092911	1110003-05	010R1001.D	10/12/11 16:05
FLC-5-MW05-092911	1110003-05	010F1001.D	10/12/11 16:05
FLC-5-MW04-092911	1110003-07	011R1101.D	10/12/11 16:23
FLC-5-MW04-092911	1110003-07	011F1101.D	10/12/11 16:23
FLC-5-MW03-092911	1110003-09	012R1201.D	10/12/11 16:42
FLC-5-MW03-092911	1110003-09	012F1201.D	10/12/11 16:42
FLC-RB02-092911	1110003-11	013R1301.D	10/12/11 17:01
FLC-RB02-092911	1110003-11	013F1301.D	10/12/11 17:01
FLC-5-MW01-092911	1110003-12	014R1401.D	10/12/11 17:20
FLC-5-MW01-092911	1110003-12	014F1401.D	10/12/11 17:20
FLC-5-MW01-092911	1J04002-MS2	017F1701.D	10/12/11 18:16
FLC-5-MW01-092911	1J04002-MS2	017R1701.D	10/12/11 18:16
FLC-5-MW01-092911	1J04002-MSD2	018R1801.D	10/12/11 18:35
FLC-5-MW01-092911	1J04002-MSD2	018F1801.D	10/12/11 18:35
FLC-5-MW02-092911	1110003-14	019R1901.D	10/12/11 18:54
FLC-5-MW02-092911	1110003-14	019F1901.D	10/12/11 18:54
Calibration Check	1J28715-CCV3	025F2501.D	10/12/11 20:46
Calibration Check	1J28715-CCV3	025R2501.D	10/12/11 20:46
Calibration Check	1J28715-CCV4	026R2601.D	10/12/11 21:05
Calibration Check	1J28715-CCV4	026F2601.D	10/12/11 21:05

ANALYSIS SEQUENCE SUMMARY

SW8082A

Laboratory:	Empirical Laboratories, LLC	SDG:	1110003
Client:	Tetra Tech NUS, Inc. (T010)	Project:	Navy Fuel Depot CTO JM46
Sequence:	1J29602	Instrument:	GL-ECD3
Calibration:	1286006		

Sample Name	Lab Sample ID	Lab File ID	Analysis Date/Time
Calibration Check	1J29602-CCV1	002R0201.D	10/19/11 09:23
Calibration Check	1J29602-CCV1	002F0201.D	10/19/11 09:23
Blank	1J13003-BLK2	003R0301.D	10/19/11 09:42
Blank	1J13003-BLK2	003F0301.D	10/19/11 09:42
LCS	1J13003-BS3	004R0401.D	10/19/11 10:01
LCS	1J13003-BS3	004F0401.D	10/19/11 10:01
FLC-5-MW02-092911	1110003-14RE1	005R0501.D	10/19/11 10:19
FLC-5-MW02-092911	1110003-14RE1	005F0501.D	10/19/11 10:19
Calibration Check	1J29602-CCV2	006R0601.D	10/19/11 10:38
Calibration Check	1J29602-CCV2	006F0601.D	10/19/11 10:38

ANALYSIS DATA SHEET

FLC-4-MW01-092911

Laboratory:	Empirical Laboratories, LLC			SDG:	1110003
Client:	Tetra Tech NUS, Inc. (T010)			Project:	Navy Fuel Depot CTO JM46
Matrix:	Water	Laboratory ID:	1110003-01	File ID:	008F0801.D
Sampled:	09/29/11 08:20	Prepared:	10/04/11 11:10	Analyzed:	10/12/11 15:27
Solids:		Preparation:	EXT_3510	Dilution:	1

Batch: 1J04002 Sequence: 1J28715 Calibration: 1286006 Instrument: GL-ECD3

CAS NO.	COMPOUND	CONC. (ug/L)	DL	LOD	LOQ	Q
12674-11-2	Aroclor-1016		0.120	0.250	0.500	U
11104-28-2	Aroclor-1221		0.120	0.250	0.500	U
11141-16-5	Aroclor-1232		0.120	0.250	0.500	U
53469-21-9	Aroclor-1242		0.120	0.250	0.500	U
12672-29-6	Aroclor-1248		0.120	0.250	0.500	U
11097-69-1	Aroclor-1254		0.120	0.250	0.500	U
11096-82-5	Aroclor-1260		0.120	0.250	0.500	U

SYSTEM MONITORING COMPOUND	ADDED (ug/L)	CONC (ug/L)	% REC	QC LIMITS	Q
Tetrachloro-m-xylene	0.5000	0.3461	69.2	25 - 140	
Tetrachloro-m-xylene [2C]	0.5000	0.3701	74.0	25 - 140	
Decachlorobiphenyl	0.5000	0.2065	41.3	40 - 135	
Decachlorobiphenyl [2C]	0.5000	0.2302	46.0	40 - 135	Y

* Values outside of QC limits

ANALYSIS DATA SHEET

FLC-4-MW02-092911

Laboratory:	Empirical Laboratories, LLC			SDG:	1110003
Client:	Tetra Tech NUS, Inc. (T010)			Project:	Navy Fuel Depot CTO JM46
Matrix:	Water	Laboratory ID:	1110003-03	File ID:	009F0901.D
Sampled:	09/29/11 09:30	Prepared:	10/04/11 11:10	Analyzed:	10/12/11 15:46
Solids:		Preparation:	EXT_3510	Dilution:	1

Batch: 1J04002 Sequence: 1J28715 Calibration: 1286006 Instrument: GL-ECD3

CAS NO.	COMPOUND	CONC. (ug/L)	DL	LOD	LOQ	Q
12674-11-2	Aroclor-1016		0.120	0.250	0.500	U
11104-28-2	Aroclor-1221		0.120	0.250	0.500	U
11141-16-5	Aroclor-1232		0.120	0.250	0.500	U
53469-21-9	Aroclor-1242		0.120	0.250	0.500	U
12672-29-6	Aroclor-1248		0.120	0.250	0.500	U
11097-69-1	Aroclor-1254		0.120	0.250	0.500	U
11096-82-5	Aroclor-1260		0.120	0.250	0.500	U

SYSTEM MONITORING COMPOUND	ADDED (ug/L)	CONC (ug/L)	% REC	QC LIMITS	Q
Tetrachloro-m-xylene	0.5000	0.3428	68.6	25 - 140	
Tetrachloro-m-xylene [2C]	0.5000	0.3409	68.2	25 - 140	
Decachlorobiphenyl	0.5000	0.1909	38.2	40 - 135	*
Decachlorobiphenyl [2C]	0.5000	0.2074	41.5	40 - 135	Y

* Values outside of QC limits

ANALYSIS DATA SHEET

FLC-5-MW05-092911

Laboratory:	Empirical Laboratories, LLC			SDG:	1110003
Client:	Tetra Tech NUS, Inc. (T010)			Project:	Navy Fuel Depot CTO JM46
Matrix:	Water	Laboratory ID:	1110003-05	File ID:	010F1001.D
Sampled:	09/29/11 11:25	Prepared:	10/04/11 11:10	Analyzed:	10/12/11 16:05
Solids:		Preparation:	EXT_3510	Dilution:	1

Batch: 1J04002 Sequence: 1J28715 Calibration: 1286006 Instrument: GL-ECD3

CAS NO.	COMPOUND	CONC. (ug/L)	DL	LOD	LOQ	Q
12674-11-2	Aroclor-1016		0.120	0.250	0.500	U
11104-28-2	Aroclor-1221		0.120	0.250	0.500	U
11141-16-5	Aroclor-1232		0.120	0.250	0.500	U
53469-21-9	Aroclor-1242		0.120	0.250	0.500	U
12672-29-6	Aroclor-1248		0.120	0.250	0.500	U
11097-69-1	Aroclor-1254		0.120	0.250	0.500	U
11096-82-5	Aroclor-1260		0.120	0.250	0.500	U

SYSTEM MONITORING COMPOUND	ADDED (ug/L)	CONC (ug/L)	% REC	QC LIMITS	Q
Tetrachloro-m-xylene	0.5000	0.2489	49.8	25 - 140	
Tetrachloro-m-xylene [2C]	0.5000	0.2137	42.7	25 - 140	
Decachlorobiphenyl	0.5000	0.1047	20.9	40 - 135	*
Decachlorobiphenyl [2C]	0.5000	0.09178	18.4	40 - 135	*Y

* Values outside of QC limits

ANALYSIS DATA SHEET

FLC-5-MW04-092911

Laboratory:	Empirical Laboratories, LLC			SDG:	1110003
Client:	Tetra Tech NUS, Inc. (T010)			Project:	Navy Fuel Depot CTO JM46
Matrix:	Water	Laboratory ID:	1110003-07	File ID:	011F1101.D
Sampled:	09/29/11 12:50	Prepared:	10/04/11 11:10	Analyzed:	10/12/11 16:23
Solids:		Preparation:	EXT_3510	Dilution:	1

Batch: 1J04002 Sequence: 1J28715 Calibration: 1286006 Instrument: GL-ECD3

CAS NO.	COMPOUND	CONC. (ug/L)	DL	LOD	LOQ	Q
12674-11-2	Aroclor-1016		0.120	0.250	0.500	U
11104-28-2	Aroclor-1221		0.120	0.250	0.500	U
11141-16-5	Aroclor-1232		0.120	0.250	0.500	U
53469-21-9	Aroclor-1242		0.120	0.250	0.500	U
12672-29-6	Aroclor-1248		0.120	0.250	0.500	U
11097-69-1	Aroclor-1254		0.120	0.250	0.500	U
11096-82-5	Aroclor-1260		0.120	0.250	0.500	U

SYSTEM MONITORING COMPOUND	ADDED (ug/L)	CONC (ug/L)	% REC	QC LIMITS	Q
Tetrachloro-m-xylene	0.5000	0.2772	55.4	25 - 140	
Tetrachloro-m-xylene [2C]	0.5000	0.2709	54.2	25 - 140	
Decachlorobiphenyl	0.5000	0.1346	26.9	40 - 135	*
Decachlorobiphenyl [2C]	0.5000	0.1304	26.1	40 - 135	*Y

* Values outside of QC limits

ANALYSIS DATA SHEET

FLC-5-MW03-092911

Laboratory:	Empirical Laboratories, LLC			SDG:	1110003
Client:	Tetra Tech NUS, Inc. (T010)			Project:	Navy Fuel Depot CTO JM46
Matrix:	Water	Laboratory ID:	1110003-09	File ID:	012F1201.D
Sampled:	09/29/11 14:00	Prepared:	10/04/11 11:10	Analyzed:	10/12/11 16:42
Solids:		Preparation:	EXT_3510	Dilution:	1

Batch: 1J04002 Sequence: 1J28715 Calibration: 1286006 Instrument: GL-ECD3

CAS NO.	COMPOUND	CONC. (ug/L)	DL	LOD	LOQ	Q
12674-11-2	Aroclor-1016		0.120	0.250	0.500	U
11104-28-2	Aroclor-1221		0.120	0.250	0.500	U
11141-16-5	Aroclor-1232		0.120	0.250	0.500	U
53469-21-9	Aroclor-1242		0.120	0.250	0.500	U
12672-29-6	Aroclor-1248		0.120	0.250	0.500	U
11097-69-1	Aroclor-1254		0.120	0.250	0.500	U
11096-82-5	Aroclor-1260		0.120	0.250	0.500	U

SYSTEM MONITORING COMPOUND	ADDED (ug/L)	CONC (ug/L)	% REC	QC LIMITS	Q
Tetrachloro-m-xylene	0.5000	0.1971	39.4	25 - 140	
Tetrachloro-m-xylene [2C]	0.5000	0.1683	33.7	25 - 140	
Decachlorobiphenyl	0.5000	0.07341	14.7	40 - 135	*
Decachlorobiphenyl [2C]	0.5000	0.06309	12.6	40 - 135	*Y

* Values outside of QC limits

ANALYSIS DATA SHEET

FLC-RB02-092911

Laboratory:	Empirical Laboratories, LLC			SDG:	1110003
Client:	Tetra Tech NUS, Inc. (T010)			Project:	Navy Fuel Depot CTO JM46
Matrix:	Water	Laboratory ID:	1110003-11	File ID:	013F1301.D
Sampled:	09/29/11 14:35	Prepared:	10/04/11 11:10	Analyzed:	10/12/11 17:01
Solids:		Preparation:	EXT_3510	Dilution:	1

Batch: 1J04002 Sequence: 1J28715 Calibration: 1286006 Instrument: GL-ECD3

CAS NO.	COMPOUND	CONC. (ug/L)	DL	LOD	LOQ	Q
12674-11-2	Aroclor-1016		0.120	0.250	0.500	U
11104-28-2	Aroclor-1221		0.120	0.250	0.500	U
11141-16-5	Aroclor-1232		0.120	0.250	0.500	U
53469-21-9	Aroclor-1242		0.120	0.250	0.500	U
12672-29-6	Aroclor-1248		0.120	0.250	0.500	U
11097-69-1	Aroclor-1254		0.120	0.250	0.500	U
11096-82-5	Aroclor-1260		0.120	0.250	0.500	U

SYSTEM MONITORING COMPOUND	ADDED (ug/L)	CONC (ug/L)	% REC	QC LIMITS	Q
Tetrachloro-m-xylene	0.5000	0.3539	70.8	25 - 140	
Tetrachloro-m-xylene [2C]	0.5000	0.3706	74.1	25 - 140	
Decachlorobiphenyl	0.5000	0.1409	28.2	40 - 135	*
Decachlorobiphenyl [2C]	0.5000	0.1502	30.0	40 - 135	*Y

* Values outside of QC limits

ANALYSIS DATA SHEET

FLC-5-MW01-092911

Laboratory:	Empirical Laboratories, LLC			SDG:	1110003
Client:	Tetra Tech NUS, Inc. (T010)			Project:	Navy Fuel Depot CTO JM46
Matrix:	Water	Laboratory ID:	1110003-12	File ID:	014R1401.D
Sampled:	09/30/11 09:15	Prepared:	10/04/11 11:10	Analyzed:	10/12/11 17:20
Solids:		Preparation:	EXT_3510	Dilution:	1

Batch: 1J04002 Sequence: 1J28715 Calibration: 1286006 Instrument: GL-ECD3

CAS NO.	COMPOUND	CONC. (ug/L)	DL	LOD	LOQ	Q
12674-11-2	Aroclor-1016 [2C]		5.00	5.00	5.00	UXN, Q, , Z-01
11104-28-2	Aroclor-1221		5.00	5.00	5.00	UZ-01
11141-16-5	Aroclor-1232		5.00	5.00	5.00	UZ-01
53469-21-9	Aroclor-1242		5.00	5.00	5.00	UZ-01
12672-29-6	Aroclor-1248		5.00	5.00	5.00	UZ-01
11097-69-1	Aroclor-1254 [2C]		5.00	5.00	5.00	UX, Z-01
11096-82-5	Aroclor-1260		5.00	5.00	5.00	UN, Z-01

SYSTEM MONITORING COMPOUND	ADDED (ug/L)	CONC (ug/L)	% REC	QC LIMITS	Q
Tetrachloro-m-xylene	0.5000	0.2448	49.0	25 - 140	
Tetrachloro-m-xylene [2C]	0.5000	0.1740	34.8	25 - 140	
Decachlorobiphenyl	0.5000	0.1009	20.2	40 - 135	*
Decachlorobiphenyl [2C]	0.5000	0.07207	14.4	40 - 135	*Y

* Values outside of QC limits

ANALYSIS DATA SHEET

FLC-5-MW02-092911

Laboratory:	Empirical Laboratories, LLC			SDG:	1110003
Client:	Tetra Tech NUS, Inc. (T010)			Project:	Navy Fuel Depot CTO JM46
Matrix:	Water	Laboratory ID:	1110003-14	File ID:	019F1901.D
Sampled:	09/30/11 11:05	Prepared:	10/04/11 11:10	Analyzed:	10/12/11 18:54
Solids:		Preparation:	EXT_3510	Dilution:	1

Batch: 1J04002 Sequence: 1J28715 Calibration: 1286006 Instrument: GL-ECD3

CAS NO.	COMPOUND	CONC. (ug/L)	DL	LOD	LOQ	Q
12674-11-2	Aroclor-1016		0.120	0.250	0.500	U
11104-28-2	Aroclor-1221		0.120	0.250	0.500	U
11141-16-5	Aroclor-1232		0.120	0.250	0.500	U
53469-21-9	Aroclor-1242		0.120	0.250	0.500	U
12672-29-6	Aroclor-1248		0.120	0.250	0.500	U
11097-69-1	Aroclor-1254 [2C]		0.120	0.250	0.500	UX
11096-82-5	Aroclor-1260		0.120	0.250	0.500	U

SYSTEM MONITORING COMPOUND	ADDED (ug/L)	CONC (ug/L)	% REC	QC LIMITS	Q
Tetrachloro-m-xylene	0.5000	0.2246	44.9	25 - 140	
Tetrachloro-m-xylene [2C]	0.5000	0.1933	38.7	25 - 140	
Decachlorobiphenyl	0.5000	0.06967	13.9	40 - 135	*
Decachlorobiphenyl [2C]	0.5000	0.04823	9.65	40 - 135	*Y

* Values outside of QC limits

ANALYSIS DATA SHEET

FLC-5-MW02-092911

Laboratory:	Empirical Laboratories, LLC			SDG:	1110003
Client:	Tetra Tech NUS, Inc. (T010)			Project:	Navy Fuel Depot CTO JM46
Matrix:	Water	Laboratory ID:	1110003-14RE1	File ID:	005F0501.D
Sampled:	09/30/11 11:05	Prepared:	10/13/11 13:30	Analyzed:	10/19/11 10:19
Solids:		Preparation:	EXT_3510	Dilution:	1

Batch: 1J13003 Sequence: 1J29602 Calibration: 1286006 Instrument: GL-ECD3

CAS NO.	COMPOUND	CONC. (ug/L)	DL	LOD	LOQ	Q
12674-11-2	Aroclor-1016		0.111	0.231	0.463	UH2
11104-28-2	Aroclor-1221		0.111	0.231	0.463	UH2
11141-16-5	Aroclor-1232		0.111	0.231	0.463	UH2
53469-21-9	Aroclor-1242		0.111	0.231	0.463	UH2
12672-29-6	Aroclor-1248		0.111	0.231	0.463	UH2
11097-69-1	Aroclor-1254		0.111	0.231	0.463	UH2
11096-82-5	Aroclor-1260		0.111	0.231	0.463	UH2

SYSTEM MONITORING COMPOUND	ADDED (ug/L)	CONC (ug/L)	% REC	QC LIMITS	Q
Tetrachloro-m-xylene	0.4630	0.2922	63.1	25 - 140	H2
Tetrachloro-m-xylene [2C]	0.4630	0.5031	109	25 - 140	H2, X
Decachlorobiphenyl	0.4630	0.08783	19.0	40 - 135	*H2
Decachlorobiphenyl [2C]	0.4630	0.1570	33.9	40 - 135	*H2, X

* Values outside of QC limits

LCS / LCS DUPLICATE RECOVERY

SW8082A

Laboratory:	Empirical Laboratories, LLC	SDG:	1110003
Client:	Tetra Tech NUS, Inc. (T010)	Project:	Navy Fuel Depot CTO JM46
Matrix:	Water		
Batch:	1J04002	Laboratory ID:	1J04002-BS2
Preparation:	EXT_3510	Initial/Final:	1000 mL / 10 mL

ANALYTE	SPIKE ADDED (ug/L)	LCS CONCENTRATION (ug/L)	LCS % REC.	QC LIMITS REC.
Aroclor-1016	1.000	1.069	107	25 - 145
Aroclor-1016 [2C]	**1.000**	**1.783**	**178**	**25 - 145**
Aroclor-1260	5.000	3.929	78.6	30 - 145
Aroclor-1260 [2C]	5.000	6.871	137	30 - 145

LCS / LCS DUPLICATE RECOVERY

SW8082A

Laboratory:	Empirical Laboratories, LLC	SDG:	1110003
Client:	Tetra Tech NUS, Inc. (T010)	Project:	Navy Fuel Depot CTO JM46
Matrix:	Water		
Batch:	1J13003	Laboratory ID:	1J13003-BS3
Preparation:	EXT_3510	Initial/Final:	1000 mL / 10 mL

ANALYTE	SPIKE ADDED (ug/L)	LCS CONCENTRATION (ug/L)	LCS % REC.	QC LIMITS REC.
Aroclor-1016	1.000	1.097	110	25 - 145
Aroclor-1016 [2C]	**1.000**	**2.755**	**275**	**25 - 145**
Aroclor-1260	5.000	4.017	80.3	30 - 145
Aroclor-1260 [2C]	**5.000**	**10.73**	**215**	**30 - 145**

MATRIX SPIKE / MATRIX SPIKE DUPLICATE RECOVERY

SW8082A

FLC-5-MW01-092911

Laboratory: Empirical Laboratories, LLC

SDG: 1110003

Client: Tetra Tech NUS, Inc. (T010)

Project: Navy Fuel Depot CTO JM46

Matrix: Water

Batch: 1J04002

% Solids:

Source Sample Name: **1110003-12**

ANALYTE	SPIKE ADDED (ug/L)	SAMPLE CONCENTRATION (ug/L)	MS CONCENTRATION (ug/L)	MS % REC.	Q	QC LIMITS REC.
Aroclor-1016	1.000	ND	0.8897	89.0		25 - 145
Aroclor-1016 [2C]	1.000	ND	0.8907	89.1		25 - 145
Aroclor-1260	5.000	ND	1.157	23.1	*	30 - 145
Aroclor-1260 [2C]	5.000	ND	0.6988	14.0	*	30 - 145

ANALYTE	SPIKE ADDED (ug/L)	MSD CONCENTRATION (ug/L)	MSD % REC. #	% RPD	Q	QC LIMITS RPD	QC LIMITS REC.
Aroclor-1016	1.000	0.9376	93.8	5.24		30	25 - 145
Aroclor-1016 [2C]	1.000	0.5939	59.4	40.0	*	30	25 - 145
Aroclor-1260	5.000	1.083	21.7	6.60	*	30	30 - 145
Aroclor-1260 [2C]	5.000	0.7203	14.4	3.04	*	30	30 - 145

PREPARATION BATCH SUMMARY

SW8082A

Laboratory: Empirical Laboratories, LLC SDG: 1110003

Client: Tetra Tech NUS, Inc. (T010) Project: Navy Fuel Depot CTO JM46

Batch: 1J04002 Batch Matrix: Water Preparation: EXT_3510

SAMPLE NAME	LAB SAMPLE ID	DATE PREPARED	INITIAL VOL./WEIGHT	FINAL VOL.
FLC-4-MW01-092911	1110003-01	10/04/11 11:10	1,000.00	10.00
FLC-4-MW02-092911	1110003-03	10/04/11 11:10	1,000.00	10.00
FLC-5-MW05-092911	1110003-05	10/04/11 11:10	1,000.00	10.00
FLC-5-MW04-092911	1110003-07	10/04/11 11:10	1,000.00	10.00
FLC-5-MW03-092911	1110003-09	10/04/11 11:10	1,000.00	10.00
FLC-RB02-092911	1110003-11	10/04/11 11:10	1,000.00	10.00
FLC-5-MW01-092911	1110003-12	10/04/11 11:10	1,000.00	10.00
FLC-5-MW02-092911	1110003-14	10/04/11 11:10	1,000.00	10.00
Blank	1J04002-BLK1	10/04/11 11:10	1,000.00	10.00
LCS	1J04002-BS2	10/04/11 11:10	1,000.00	10.00
FLC-5-MW01-092911	1J04002-MS2	10/04/11 11:10	1,000.00	10.00
FLC-5-MW01-092911	1J04002-MSD2	10/04/11 11:10	1,000.00	10.00

PREPARATION BATCH SUMMARY

SW8082A

Laboratory: Empirical Laboratories, LLC SDG: 1110003

Client: Tetra Tech NUS, Inc. (T010) Project: Navy Fuel Depot CTO JM46

Batch: 1J13003 Batch Matrix: Water Preparation: EXT_3510

SAMPLE NAME	LAB SAMPLE ID	DATE PREPARED	INITIAL VOL./WEIGHT	FINAL VOL.
FLC-5-MW02-092911	1110003-14RE1	10/13/11 13:30	1,080.00	10.00
Blank	1J13003-BLK2	10/13/11 13:30	1,000.00	10.00
LCS	1J13003-BS3	10/13/11 13:30	1,000.00	10.00

ANALYSIS DATA SHEET

Blank

Laboratory:	Empirical Laboratories, LLC	SDG:	1110003
Client:	Tetra Tech NUS, Inc. (T010)	Project:	Navy Fuel Depot CTO JM46

Matrix:		Laboratory ID:	1J04002-BLK1	File ID:	005F0501.D
Sampled:		Prepared:	10/04/11 11:10	Analyzed:	10/12/11 14:31
Solids:		Preparation:	EXT_3510	Dilution:	

Batch:	1J04002	Sequence:	1J28715	Calibration:	1286006	Instrument:	GL-ECD3

CAS NO.	COMPOUND	CONC. (ug/L)	DL	LOD	LOQ	Q
12674-11-2	Aroclor-1016		0.120	0.250	0.500	UX
11104-28-2	Aroclor-1221		0.120	0.250	0.500	U
11141-16-5	Aroclor-1232		0.120	0.250	0.500	U
53469-21-9	Aroclor-1242		0.120	0.250	0.500	U
12672-29-6	Aroclor-1248		0.120	0.250	0.500	U
11097-69-1	Aroclor-1254		0.120	0.250	0.500	UX
11096-82-5	Aroclor-1260		0.120	0.250	0.500	UX

SYSTEM MONITORING COMPOUND	ADDED (ug/L)	CONC (ug/L)	% REC	QC LIMITS	Q
Tetrachloro-m-xylene	0.5000	0.3640	72.8	25 - 140	
Tetrachloro-m-xylene [2C]	0.5000	0.4229	84.6	25 - 140	
Decachlorobiphenyl	0.5000	0.1893	37.9	40 - 135	*
Decachlorobiphenyl [2C]	0.5000	0.2188	43.8	40 - 135	Y

* Values outside of QC limits

ANALYSIS DATA SHEET

Blank

Laboratory:	Empirical Laboratories, LLC	SDG:	1110003
Client:	Tetra Tech NUS, Inc. (T010)	Project:	Navy Fuel Depot CTO JM46

Matrix:		Laboratory ID:	1J13003-BLK2	File ID:	003F0301.D
Sampled:		Prepared:	10/13/11 13:30	Analyzed:	10/19/11 09:42
Solids:		Preparation:	EXT_3510	Dilution:	

Batch:	1J13003	Sequence:	1J29602	Calibration:	1286006	Instrument:	GL-ECD3

CAS NO.	COMPOUND	CONC. (ug/L)	DL	LOD	LOQ	Q
12674-11-2	Aroclor-1016		0.120	0.250	0.500	UX
11104-28-2	Aroclor-1221		0.120	0.250	0.500	U
11141-16-5	Aroclor-1232		0.120	0.250	0.500	U
53469-21-9	Aroclor-1242		0.120	0.250	0.500	U
12672-29-6	Aroclor-1248		0.120	0.250	0.500	U
11097-69-1	Aroclor-1254		0.120	0.250	0.500	U
11096-82-5	Aroclor-1260		0.120	0.250	0.500	UX

SYSTEM MONITORING COMPOUND	ADDED (ug/L)	CONC (ug/L)	% REC	QC LIMITS	Q
Tetrachloro-m-xylene	0.5000	0.3739	74.8	25 - 140	
Tetrachloro-m-xylene [2C]	0.5000	0.6531	131	25 - 140	X
Decachlorobiphenyl	0.5000	0.2346	46.9	40 - 135	
Decachlorobiphenyl [2C]	0.5000	0.4451	89.0	40 - 135	X

* Values outside of QC limits

INITIAL CALIBRATION STANDARDS

SW8082A

Laboratory:	Empirical Laboratories, LLC	SDG:	1110003
Client:	Tetra Tech NUS, Inc. (T010)	Project:	Navy Fuel Depot CTO JM46
Sequence:	1J27703	Instrument:	GL-ECD3
Calibration:	1286006		

Standard ID	Description	Lab Sample ID	Lab File ID	Analysis Date/Time
11I0868	Pest_ICAL6 @ 5ppb	1J27703-CAL6	004R0401.D	09/30/11 07:06
11I0868	Pest_ICAL6 @ 5ppb	1J27703-CAL6	004F0401.D	09/30/11 07:06
11I0869	Pest_ICAL5 @ 10ppb	1J27703-CAL5	005F0501.D	09/30/11 07:25
11I0869	Pest_ICAL5 @ 10ppb	1J27703-CAL5	005R0501.D	09/30/11 07:25
11I0839	Pest_ICAL4@25ppb	1J27703-CAL4	006R0601.D	09/30/11 07:44
11I0839	Pest_ICAL4@25ppb	1J27703-CAL4	006F0601.D	09/30/11 07:44
11I0840	Pest_ICAL3@50ppb	1J27703-CAL3	007F0701.D	09/30/11 08:02
11I0840	Pest_ICAL3@50ppb	1J27703-CAL3	007R0701.D	09/30/11 08:02
11I0841	Pest. ICAL2 @ 100ppb	1J27703-CAL2	008R0801.D	09/30/11 08:21
11I0841	Pest. ICAL2 @ 100ppb	1J27703-CAL2	008F0801.D	09/30/11 08:21
11I0842	Pest_ICAL1@200ppb	1J27703-CAL1	009R0901.D	09/30/11 08:40
11I0842	Pest_ICAL1@200ppb	1J27703-CAL1	009F0901.D	09/30/11 08:40
11I0878	Pest_ICAL7 @ 1ppb	1J27703-CAL7	015F1501.D	09/30/11 11:18
11I0878	Pest_ICAL7 @ 1ppb	1J27703-CAL7	015R1501.D	09/30/11 11:18

INITIAL CALIBRATION STANDARDS

SW8082A

Laboratory:	Empirical Laboratories, LLC	SDG:	1110003
Client:	Tetra Tech NUS, Inc. (T010)	Project:	Navy Fuel Depot CTO JM46
Sequence:	1J28607	Instrument:	GL-ECD3
Calibration:	1286006		

Standard ID	Description	Lab Sample ID	Lab File ID	Analysis Date/Time
11J0019	Aro-1660 Cal6@50/2.5	1J28607-CAL6	022R2201.D	10/10/11 17:52
11J0019	Aro-1660 Cal6@50/2.5	1J28607-CAL6	022F2201.D	10/10/11 17:52
11J0018	Aro-1660 Cal5@100/5	1J28607-CAL5	023F2301.D	10/10/11 18:11
11J0018	Aro-1660 Cal5@100/5	1J28607-CAL5	023R2301.D	10/10/11 18:11
11J0017	Aro-1660 Cal4@500/25	1J28607-CAL4	024F2401.D	10/10/11 18:29
11J0017	Aro-1660 Cal4@500/25	1J28607-CAL4	024R2401.D	10/10/11 18:29
11J0016	Aro-1660 Cal3@750/37.5	1J28607-CAL3	025R2501.D	10/10/11 18:48
11J0016	Aro-1660 Cal3@750/37.5	1J28607-CAL3	025F2501.D	10/10/11 18:48
11J0015	Aro-1660 Cal2@1000/50 (CCV)	1J28607-CAL2	026R2601.D	10/10/11 19:07
11J0015	Aro-1660 Cal2@1000/50 (CCV)	1J28607-CAL2	026F2601.D	10/10/11 19:07
11J0014	Aro-1660 Cal1@2500/125	1J28607-CAL1	027R2701.D	10/10/11 19:26
11J0014	Aro-1660 Cal1@2500/125	1J28607-CAL1	027F2701.D	10/10/11 19:26
11J0045	Aroclor-1254 CAL 6 (50 ppb)	1J28607-CAL7	029R2901.D	10/10/11 20:03
11J0045	Aroclor-1254 CAL 6 (50 ppb)	1J28607-CAL7	029F2901.D	10/10/11 20:03
11J0044	Aroclor-1254 CAL 5 (100 ppb)	1J28607-CAL8	030F3001.D	10/10/11 20:22
11J0044	Aroclor-1254 CAL 5 (100 ppb)	1J28607-CAL8	030R3001.D	10/10/11 20:22
11J0043	Aroclor-1254 CAL 4 (500 ppb)	1J28607-CAL9	031F3101.D	10/10/11 20:41
11J0043	Aroclor-1254 CAL 4 (500 ppb)	1J28607-CAL9	031R3101.D	10/10/11 20:41
11J0042	Aroclor-1254 CAL 3 (750 ppb)	1J28607-CALA	032F3201.D	10/10/11 21:00
11J0042	Aroclor-1254 CAL 3 (750 ppb)	1J28607-CALA	032R3201.D	10/10/11 21:00
11J0041	Aroclor-1254 CCV 1000ppb	1J28607-CALB	033F3301.D	10/10/11 21:19
11J0041	Aroclor-1254 CCV 1000ppb	1J28607-CALB	033R3301.D	10/10/11 21:19
11J0040	Aroclor-1254 CAL 1 (2500 ppb)	1J28607-CALC	034R3401.D	10/10/11 21:37
11J0040	Aroclor-1254 CAL 1 (2500 ppb)	1J28607-CALC	034F3401.D	10/10/11 21:37

INITIAL CALIBRATION DATA

SW8082A

Laboratory:	Empirical Laboratories, LLC	SDG:	1110003
Client:	Tetra Tech NUS, Inc. (T010)	Project:	Navy Fuel Depot CTO JM46
Calibration:	1286006	Instrument:	GL-ECD3
Matrix:	Water	Calibration Dates:	11/24/10 20:08 10/10/11 21:37

Compound	Level 01		Level 02		Level 03		Level 04		Level 05		Level 06	
	ug/L	RF	ug/L	RF	ug/L	RF	ug/L	RF	ug/L	RF	ug/L	RF
Aroclor-1016	2500	1027.861	1000	1053.834	750	1018.486	500	1041.356	100	1180.97	50	1196.384
Aroclor-1016 (1)	2500	1579.595	1000	1660.668	750	1612.904	500	1644.272	100	1903.85	50	1913.64
Aroclor-1016 (2)	2500	791.7648	1000	821.788	750	792.7853	500	811.1	100	916.71	50	912.3
Aroclor-1016 (3)	2500	780.3408	1000	799.052	750	768.764	500	784.742	100	873.38	50	873
Aroclor-1016 (4)	2500	1201.915	1000	1181.036	750	1141.581	500	1171.316	100	1309.02	50	1390.9
Aroclor-1016 (5)	2500	785.6888	1000	806.625	750	776.396	500	795.35	100	901.89	50	892.08
Aroclor-1016 [2C]	2500	691.7532	1000	762.9158	750	752.7395	500	790.8856	100	976.644	50	1029.38
Aroclor-1016 (1) [2C]	2500	972.4664	1000	1113.484	750	1083.869	500	1165.64	100	1451.5	50	1522.26
Aroclor-1016 (2) [2C]	2500	575.3704	1000	628.724	750	620.2454	500	647.398	100	806.67	50	839.66
Aroclor-1016 (3) [2C]	2500	805.648	1000	867.846	750	876.212	500	898.542	100	1097.78	50	1162.52
Aroclor-1016 (4) [2C]	2500	544.512	1000	592.651	750	585.3333	500	612.552	100	753.38	50	791.42
Aroclor-1016 (5) [2C]	2500	560.7688	1000	611.874	750	598.0374	500	630.296	100	773.89	50	831.04
Aroclor-1221												
Aroclor-1221 (1)												
Aroclor-1221 (2)												
Aroclor-1221 (3)												
Aroclor-1221 (4)												
Aroclor-1221 (5)												
Aroclor-1221 [2C]												
Aroclor-1221 (1) [2C]												
Aroclor-1221 (2) [2C]												
Aroclor-1221 (3) [2C]												
Aroclor-1221 (4) [2C]												
Aroclor-1221 (5) [2C]												
Aroclor-1242												
Aroclor-1242 (1)												
Aroclor-1242 (2)												
Aroclor-1242 (3)												
Aroclor-1242 (4)												
Aroclor-1242 (5)												
Aroclor-1242 [2C]												

INITIAL CALIBRATION DATA

SW8082A

Laboratory:	Empirical Laboratories, LLC	SDG:	1110003
Client:	Tetra Tech NUS, Inc. (T010)	Project:	Navy Fuel Depot CTO JM46
Calibration:	1286006	Instrument:	GL-ECD3
Matrix:	Water	Calibration Dates:	11/24/10 20:08 10/10/11 21:37

Compound	Level 01		Level 02		Level 03		Level 04		Level 05		Level 06	
	ug/L	RF	ug/L	RF	ug/L	RF	ug/L	RF	ug/L	RF	ug/L	RF
Aroclor-1242 (1) [2C]												
Aroclor-1242 (2) [2C]												
Aroclor-1242 (3) [2C]												
Aroclor-1242 (4) [2C]												
Aroclor-1242 (5) [2C]												
Aroclor-1254												
Aroclor-1254 (1)												
Aroclor-1254 (2)												
Aroclor-1254 (3)												
Aroclor-1254 (4)												
Aroclor-1254 (5)												
Aroclor-1254 [2C]												
Aroclor-1254 (1) [2C]												
Aroclor-1254 (2) [2C]												
Aroclor-1254 (3) [2C]												
Aroclor-1254 (4) [2C]												
Aroclor-1254 (5) [2C]												
Aroclor-1260	2500	2304.061	1000	2312.261	750	2167.251	500	2235.512	100	2506.03	50	2399.48
Aroclor-1260 (1)	2500	4174.52	1000	4119.257	750	3854.752	500	3950.348	100	4353.65	50	4186.7
Aroclor-1260 (2)	2500	2173.332	1000	2187.683	750	2057.761	500	2132.812	100	2416.88	50	2348.58
Aroclor-1260 (3)	2500	2418.496	1000	2437.691	750	2278.393	500	2353.292	100	2652.37	50	2509.06
Aroclor-1260 (4)	2500	1711.609	1000	1737.872	750	1627.029	500	1692.942	100	1936.88	50	1828.56
Aroclor-1260 (5)	2500	1042.347	1000	1078.8	750	1018.316	500	1048.17	100	1170.37	50	1124.5
Aroclor-1260 [2C]	2500	1368.937	1000	1511.138	750	1451.055	500	1537.107	100	1912.354	50	1922.556
Aroclor-1260 (1) [2C]	2500	2134.062	1000	2360.478	750	2263.561	500	2397.774	100	2938.16	50	2883.2
Aroclor-1260 (2) [2C]	2500	1294.35	1000	1446.451	750	1378.733	500	1460.602	100	1806.38	50	1836.08
Aroclor-1260 (3) [2C]	2500	1175.427	1000	1301.931	750	1255.52	500	1336.508	100	1712.98	50	1784.08
Aroclor-1260 (4) [2C]	2500	1303.722	1000	1415.137	750	1364.815	500	1439.406	100	1789.37	50	1788.58
Aroclor-1260 (5) [2C]	2500	937.1228	1000	1031.695	750	992.644	500	1051.244	100	1314.88	50	1320.84
Aroclor-1268												
Aroclor-1268 (1)												

INITIAL CALIBRATION DATA

SW8082A

Laboratory:	Empirical Laboratories, LLC	SDG:	1110003
Client:	Tetra Tech NUS, Inc. (T010)	Project:	Navy Fuel Depot CTO JM46
Calibration:	1286006	Instrument:	GL-ECD3
Matrix:	Water	Calibration Dates:	11/24/10 20:08 10/10/11 21:37

Compound	Level 01		Level 02		Level 03		Level 04		Level 05		Level 06	
	ug/L	RF	ug/L	RF	ug/L	RF	ug/L	RF	ug/L	RF	ug/L	RF
Aroclor-1268 (2)												
Aroclor-1268 (3)												
Aroclor-1268 (4)												
Aroclor-1268 (5)												
Aroclor-1268 [2C]												
Aroclor-1268 (1) [2C]												
Aroclor-1268 (2) [2C]												
Aroclor-1268 (3) [2C]												
Aroclor-1268 (4) [2C]												
Aroclor-1268 (5) [2C]												
Tetrachloro-m-xylene	250		100		75		50		10		5	
Tetrachloro-m-xylene [2C]	250		100		75		50		10		5	
Decachlorobiphenyl	250		100		75		50		10		5	
Decachlorobiphenyl [2C]	250		100		75		50		10		5	

INITIAL CALIBRATION DATA (Continued)

SW8082A

Laboratory:	Empirical Laboratories, LLC	SDG:	1110003
Client:	Tetra Tech NUS, Inc. (T010)	Project:	Navy Fuel Depot CTO JM46
Calibration:	1286006	Instrument:	GL-ECD3
Matrix:	Water	Calibration Dates:	11/24/10 20:08 10/10/11 21:37

Compound	Level 07		Level 08		Level 09		Level 10		Level 11		Level 12	
	ug/L	RF	ug/L	RF	ug/L	RF	ug/L	RF	ug/L	RF	ug/L	RF
Aroclor-1016												
Aroclor-1016 (1)												
Aroclor-1016 (2)												
Aroclor-1016 (3)												
Aroclor-1016 (4)												
Aroclor-1016 (5)												
Aroclor-1016 [2C]												
Aroclor-1016 (1) [2C]												
Aroclor-1016 (2) [2C]												
Aroclor-1016 (3) [2C]												
Aroclor-1016 (4) [2C]												
Aroclor-1016 (5) [2C]												
Aroclor-1221												
Aroclor-1221 (1)												
Aroclor-1221 (2)												
Aroclor-1221 (3)												
Aroclor-1221 (4)												
Aroclor-1221 (5)												
Aroclor-1221 [2C]												
Aroclor-1221 (1) [2C]												
Aroclor-1221 (2) [2C]												
Aroclor-1221 (3) [2C]												
Aroclor-1221 (4) [2C]												
Aroclor-1221 (5) [2C]												
Aroclor-1242												
Aroclor-1242 (1)												
Aroclor-1242 (2)												
Aroclor-1242 (3)												
Aroclor-1242 (4)												
Aroclor-1242 (5)												
Aroclor-1242 [2C]												

INITIAL CALIBRATION DATA (Continued)

SW8082A

Laboratory:	Empirical Laboratories, LLC	SDG:	1110003
Client:	Tetra Tech NUS, Inc. (T010)	Project:	Navy Fuel Depot CTO JM46
Calibration:	1286006	Instrument:	GL-ECD3
Matrix:	Water	Calibration Dates:	11/24/10 20:08 10/10/11 21:37

Compound	Level 07		Level 08		Level 09		Level 10		Level 11		Level 12	
	ug/L	RF	ug/L	RF	ug/L	RF	ug/L	RF	ug/L	RF	ug/L	RF
Aroclor-1242 (1) [2C]												
Aroclor-1242 (2) [2C]												
Aroclor-1242 (3) [2C]												
Aroclor-1242 (4) [2C]												
Aroclor-1242 (5) [2C]												
Aroclor-1254	50	1835.08	100	1738.566	500	1715.916	750	1670.54	1000	1645.41	2500	1638.573
Aroclor-1254 (1)	50	2306.88	100	2207.07	500	2189.214	750	2158.348	1000	2132.445	2500	2129.485
Aroclor-1254 (2)	50	796.12	100	768.45	500	737.254	750	709.86	1000	696.675	2500	679.1652
Aroclor-1254 (3)	50	2282.2	100	2148.03	500	2116.142	750	2038.368	1000	2013.552	2500	1994.815
Aroclor-1254 (4)	50	1855.8	100	1733.3	500	1702.33	750	1666.984	1000	1633.62	2500	1634.362
Aroclor-1254 (5)	50	1934.4	100	1835.98	500	1834.64	750	1779.139	1000	1750.76	2500	1755.035
Aroclor-1254 [2C]	50	1643.524	100	1519.946	500	1362.755	750	1289.972	1000	1244.311	2500	1122.28
Aroclor-1254 (1) [2C]	50	2094.2	100	1975.61	500	1772.714	750	1693.875	1000	1620.706	2500	1465.687
Aroclor-1254 (2) [2C]	50	1712	100	1588.89	500	1415.624	750	1334.785	1000	1290.341	2500	1152.224
Aroclor-1254 (3) [2C]	50	1463.64	100	1338	500	1219.818	750	1153.868	1000	1115.093	2500	997.996
Aroclor-1254 (4) [2C]	50	1105.04	100	1010.59	500	910.824	750	863.8027	1000	835.265	2500	745.0544
Aroclor-1254 (5) [2C]	50	1842.74	100	1686.64	500	1494.796	750	1403.527	1000	1360.15	2500	1250.438
Aroclor-1260												
Aroclor-1260 (1)												
Aroclor-1260 (2)												
Aroclor-1260 (3)												
Aroclor-1260 (4)												
Aroclor-1260 (5)												
Aroclor-1260 [2C]												
Aroclor-1260 (1) [2C]												
Aroclor-1260 (2) [2C]												
Aroclor-1260 (3) [2C]												
Aroclor-1260 (4) [2C]												
Aroclor-1260 (5) [2C]												
Aroclor-1268												
Aroclor-1268 (1)												

INITIAL CALIBRATION DATA (Continued)

SW8082A

Laboratory:	Empirical Laboratories, LLC	SDG:	1110003
Client:	Tetra Tech NUS, Inc. (T010)	Project:	Navy Fuel Depot CTO JM46
Calibration:	1286006	Instrument:	GL-ECD3
Matrix:	Water	Calibration Dates:	11/24/10 20:08 10/10/11 21:37

Compound	Level 07		Level 08		Level 09		Level 10		Level 11		Level 12	
	ug/L	RF	ug/L	RF	ug/L	RF	ug/L	RF	ug/L	RF	ug/L	RF
Aroclor-1268 (2)												
Aroclor-1268 (3)												
Aroclor-1268 (4)												
Aroclor-1268 (5)												
Aroclor-1268 [2C]												
Aroclor-1268 (1) [2C]												
Aroclor-1268 (2) [2C]												
Aroclor-1268 (3) [2C]												
Aroclor-1268 (4) [2C]												
Aroclor-1268 (5) [2C]												
Tetrachloro-m-xylene	5		10		50		75		100		250	
Tetrachloro-m-xylene [2C]	5		10		50		75		100		250	
Decachlorobiphenyl	5		10		50		75		100		250	
Decachlorobiphenyl [2C]	5		10		50		75		100		250	

INITIAL CALIBRATION DATA (Continued)

SW8082A

Laboratory:	Empirical Laboratories, LLC	SDG:	1110003	
Client:	Tetra Tech NUS, Inc. (T010)	Project:	Navy Fuel Depot CTO JM46	
Calibration:	1286006	Instrument:	GL-ECD3	
Matrix:	Water	Calibration Dates:	11/24/10 20:08	10/10/11 21:37

Compound	Level 13		Level 14		Level 15		Level 16		Level 17		Level 18	
	ug/L	RF	ug/L	RF	ug/L	RF	ug/L	RF	ug/L	RF	ug/L	RF
Aroclor-1016												
Aroclor-1016 (1)												
Aroclor-1016 (2)												
Aroclor-1016 (3)												
Aroclor-1016 (4)												
Aroclor-1016 (5)												
Aroclor-1016 [2C]												
Aroclor-1016 (1) [2C]												
Aroclor-1016 (2) [2C]												
Aroclor-1016 (3) [2C]												
Aroclor-1016 (4) [2C]												
Aroclor-1016 (5) [2C]												
Aroclor-1221												
Aroclor-1221 (1)												
Aroclor-1221 (2)												
Aroclor-1221 (3)												
Aroclor-1221 (4)												
Aroclor-1221 (5)												
Aroclor-1221 [2C]												
Aroclor-1221 (1) [2C]												
Aroclor-1221 (2) [2C]												
Aroclor-1221 (3) [2C]												
Aroclor-1221 (4) [2C]												
Aroclor-1221 (5) [2C]												
Aroclor-1242												
Aroclor-1242 (1)												
Aroclor-1242 (2)												
Aroclor-1242 (3)												
Aroclor-1242 (4)												
Aroclor-1242 (5)												
Aroclor-1242 [2C]												

INITIAL CALIBRATION DATA (Continued)

SW8082A

Laboratory:	Empirical Laboratories, LLC	SDG:	1110003
Client:	Tetra Tech NUS, Inc. (T010)	Project:	Navy Fuel Depot CTO JM46
Calibration:	1286006	Instrument:	GL-ECD3
Matrix:	Water	Calibration Dates:	11/24/10 20:08 10/10/11 21:37

Compound	Level 13		Level 14		Level 15		Level 16		Level 17		Level 18	
	ug/L	RF	ug/L	RF	ug/L	RF	ug/L	RF	ug/L	RF	ug/L	RF
Aroclor-1242 (1) [2C]												
Aroclor-1242 (2) [2C]												
Aroclor-1242 (3) [2C]												
Aroclor-1242 (4) [2C]												
Aroclor-1242 (5) [2C]												
Aroclor-1254												
Aroclor-1254 (1)												
Aroclor-1254 (2)												
Aroclor-1254 (3)												
Aroclor-1254 (4)												
Aroclor-1254 (5)												
Aroclor-1254 [2C]												
Aroclor-1254 (1) [2C]												
Aroclor-1254 (2) [2C]												
Aroclor-1254 (3) [2C]												
Aroclor-1254 (4) [2C]												
Aroclor-1254 (5) [2C]												
Aroclor-1260												
Aroclor-1260 (1)												
Aroclor-1260 (2)												
Aroclor-1260 (3)												
Aroclor-1260 (4)												
Aroclor-1260 (5)												
Aroclor-1260 [2C]												
Aroclor-1260 (1) [2C]												
Aroclor-1260 (2) [2C]												
Aroclor-1260 (3) [2C]												
Aroclor-1260 (4) [2C]												
Aroclor-1260 (5) [2C]												
Aroclor-1268												
Aroclor-1268 (1)												

INITIAL CALIBRATION DATA (Continued)

SW8082A

Laboratory:	Empirical Laboratories, LLC	SDG:	1110003	
Client:	Tetra Tech NUS, Inc. (T010)	Project:	Navy Fuel Depot CTO JM46	
Calibration:	1286006	Instrument:	GL-ECD3	
Matrix:	Water	Calibration Dates:	11/24/10 20:08	10/10/11 21:37

Compound	Level 13		Level 14		Level 15		Level 16		Level 17		Level 18	
	ug/L	RF	ug/L	RF	ug/L	RF	ug/L	RF	ug/L	RF	ug/L	RF
Aroclor-1268 (2)												
Aroclor-1268 (3)												
Aroclor-1268 (4)												
Aroclor-1268 (5)												
Aroclor-1268 [2C]												
Aroclor-1268 (1) [2C]												
Aroclor-1268 (2) [2C]												
Aroclor-1268 (3) [2C]												
Aroclor-1268 (4) [2C]												
Aroclor-1268 (5) [2C]												
Tetrachloro-m-xylene	200	38106.29	100	37581.37	50	36962.48	25	37949.2	10	36755.6	5	35353
Tetrachloro-m-xylene [2C]	200	31738.79	100	33692.32	50	34968.94	25	37009.72	10	37847.6	5	37074.8
Decachlorobiphenyl	200	35647.94	100	34447.06	50	34026.18	25	34903.36	10	35790.3	5	36222.6
Decachlorobiphenyl [2C]	200	26149.9	100	26407.68	50	26939.58	25	28082.16	10	29359.1	5	30235.4

INITIAL CALIBRATION DATA (Continued)

SW8082A

Laboratory:	Empirical Laboratories, LLC	SDG:	1110003	
Client:	Tetra Tech NUS, Inc. (T010)	Project:	Navy Fuel Depot CTO JM46	
Calibration:	1286006	Instrument:	GL-ECD3	
Matrix:	Water	Calibration Dates:	11/24/10 20:08	10/10/11 21:37

Compound	Level 19		Level 20		Level 21		Level 22		Level 23		Level 24	
	ug/L	RF	ug/L	RF	ug/L	RF	ug/L	RF	ug/L	RF	ug/L	RF
Aroclor-1016												
Aroclor-1016 (1)												
Aroclor-1016 (2)												
Aroclor-1016 (3)												
Aroclor-1016 (4)												
Aroclor-1016 (5)												
Aroclor-1016 [2C]												
Aroclor-1016 (1) [2C]												
Aroclor-1016 (2) [2C]												
Aroclor-1016 (3) [2C]												
Aroclor-1016 (4) [2C]												
Aroclor-1016 (5) [2C]												
Aroclor-1221												
Aroclor-1221 (1)												
Aroclor-1221 (2)												
Aroclor-1221 (3)												
Aroclor-1221 (4)												
Aroclor-1221 (5)												
Aroclor-1221 [2C]												
Aroclor-1221 (1) [2C]												
Aroclor-1221 (2) [2C]												
Aroclor-1221 (3) [2C]												
Aroclor-1221 (4) [2C]												
Aroclor-1221 (5) [2C]												
Aroclor-1242												
Aroclor-1242 (1)												
Aroclor-1242 (2)												
Aroclor-1242 (3)												
Aroclor-1242 (4)												
Aroclor-1242 (5)												
Aroclor-1242 [2C]												

INITIAL CALIBRATION DATA (Continued)

SW8082A

Laboratory:	Empirical Laboratories, LLC		SDG:	1110003	
Client:	Tetra Tech NUS, Inc. (T010)		Project:	Navy Fuel Depot CTO JM46	
Calibration:	1286006		Instrument:	GL-ECD3	
Matrix:	Water		Calibration Dates:	11/24/10 20:08	10/10/11 21:37

Compound	Level 19		Level 20		Level 21		Level 22		Level 23		Level 24	
	ug/L	RF	ug/L	RF	ug/L	RF	ug/L	RF	ug/L	RF	ug/L	RF
Aroclor-1242 (1) [2C]												
Aroclor-1242 (2) [2C]												
Aroclor-1242 (3) [2C]												
Aroclor-1242 (4) [2C]												
Aroclor-1242 (5) [2C]												
Aroclor-1254												
Aroclor-1254 (1)												
Aroclor-1254 (2)												
Aroclor-1254 (3)												
Aroclor-1254 (4)												
Aroclor-1254 (5)												
Aroclor-1254 [2C]												
Aroclor-1254 (1) [2C]												
Aroclor-1254 (2) [2C]												
Aroclor-1254 (3) [2C]												
Aroclor-1254 (4) [2C]												
Aroclor-1254 (5) [2C]												
Aroclor-1260												
Aroclor-1260 (1)												
Aroclor-1260 (2)												
Aroclor-1260 (3)												
Aroclor-1260 (4)												
Aroclor-1260 (5)												
Aroclor-1260 [2C]												
Aroclor-1260 (1) [2C]												
Aroclor-1260 (2) [2C]												
Aroclor-1260 (3) [2C]												
Aroclor-1260 (4) [2C]												
Aroclor-1260 (5) [2C]												
Aroclor-1268												
Aroclor-1268 (1)												

INITIAL CALIBRATION DATA (Continued)

SW8082A

Laboratory:	Empirical Laboratories, LLC	SDG:	1110003
Client:	Tetra Tech NUS, Inc. (T010)	Project:	Navy Fuel Depot CTO JM46
Calibration:	1286006	Instrument:	GL-ECD3
Matrix:	Water	Calibration Dates:	11/24/10 20:08 10/10/11 21:37

Compound	Level 19		Level 20		Level 21		Level 22		Level 23		Level 24	
	ug/L	RF	ug/L	RF	ug/L	RF	ug/L	RF	ug/L	RF	ug/L	RF
Aroclor-1268 (2)												
Aroclor-1268 (3)												
Aroclor-1268 (4)												
Aroclor-1268 (5)												
Aroclor-1268 [2C]												
Aroclor-1268 (1) [2C]												
Aroclor-1268 (2) [2C]												
Aroclor-1268 (3) [2C]												
Aroclor-1268 (4) [2C]												
Aroclor-1268 (5) [2C]												
Tetrachloro-m-xylene	1	41012										
Tetrachloro-m-xylene [2C]	1	45751										
Decachlorobiphenyl	1	50907										
Decachlorobiphenyl [2C]	1	44181										

INITIAL CALIBRATION DATA (Continued)

SW8082A

Laboratory:	Empirical Laboratories, LLC		SDG:	1110003	
Client:	Tetra Tech NUS, Inc. (T010)		Project:	Navy Fuel Depot CTO JM46	
Calibration:	1286006		Instrument:	GL-ECD3	
Matrix:	Water		Calibration Dates:	11/24/10 20:08	10/10/11 21:37

Compound	Level 25		Level 26		Level 27		Level 28		Level 29		Level 30	
	ug/L	RF	ug/L	RF	ug/L	RF	ug/L	RF	ug/L	RF	ug/L	RF
Aroclor-1016												
Aroclor-1016 (1)												
Aroclor-1016 (2)												
Aroclor-1016 (3)												
Aroclor-1016 (4)												
Aroclor-1016 (5)												
Aroclor-1016 [2C]												
Aroclor-1016 (1) [2C]												
Aroclor-1016 (2) [2C]												
Aroclor-1016 (3) [2C]												
Aroclor-1016 (4) [2C]												
Aroclor-1016 (5) [2C]												
Aroclor-1221												
Aroclor-1221 (1)												
Aroclor-1221 (2)												
Aroclor-1221 (3)												
Aroclor-1221 (4)												
Aroclor-1221 (5)												
Aroclor-1221 [2C]												
Aroclor-1221 (1) [2C]												
Aroclor-1221 (2) [2C]												
Aroclor-1221 (3) [2C]												
Aroclor-1221 (4) [2C]												
Aroclor-1221 (5) [2C]												
Aroclor-1242												
Aroclor-1242 (1)												
Aroclor-1242 (2)												
Aroclor-1242 (3)												
Aroclor-1242 (4)												
Aroclor-1242 (5)												
Aroclor-1242 [2C]												

INITIAL CALIBRATION DATA (Continued)

SW8082A

Laboratory:	Empirical Laboratories, LLC		SDG:	1110003	
Client:	Tetra Tech NUS, Inc. (T010)		Project:	Navy Fuel Depot CTO JM46	
Calibration:	1286006		Instrument:	GL-ECD3	
Matrix:	Water		Calibration Dates:	11/24/10 20:08	10/10/11 21:37

Compound	Level 25		Level 26		Level 27		Level 28		Level 29		Level 30	
	ug/L	RF	ug/L	RF	ug/L	RF	ug/L	RF	ug/L	RF	ug/L	RF
Aroclor-1242 (1) [2C]												
Aroclor-1242 (2) [2C]												
Aroclor-1242 (3) [2C]												
Aroclor-1242 (4) [2C]												
Aroclor-1242 (5) [2C]												
Aroclor-1254												
Aroclor-1254 (1)												
Aroclor-1254 (2)												
Aroclor-1254 (3)												
Aroclor-1254 (4)												
Aroclor-1254 (5)												
Aroclor-1254 [2C]												
Aroclor-1254 (1) [2C]												
Aroclor-1254 (2) [2C]												
Aroclor-1254 (3) [2C]												
Aroclor-1254 (4) [2C]												
Aroclor-1254 (5) [2C]												
Aroclor-1260												
Aroclor-1260 (1)												
Aroclor-1260 (2)												
Aroclor-1260 (3)												
Aroclor-1260 (4)												
Aroclor-1260 (5)												
Aroclor-1260 [2C]												
Aroclor-1260 (1) [2C]												
Aroclor-1260 (2) [2C]												
Aroclor-1260 (3) [2C]												
Aroclor-1260 (4) [2C]												
Aroclor-1260 (5) [2C]												
Aroclor-1268												
Aroclor-1268 (1)												

INITIAL CALIBRATION DATA (Continued)

SW8082A

Laboratory:	Empirical Laboratories, LLC	SDG:	1110003	
Client:	Tetra Tech NUS, Inc. (T010)	Project:	Navy Fuel Depot CTO JM46	
Calibration:	1286006	Instrument:	GL-ECD3	
Matrix:	Water	Calibration Dates:	11/24/10 20:08	10/10/11 21:37

Compound	Level 25		Level 26		Level 27		Level 28		Level 29		Level 30	
	ug/L	RF	ug/L	RF	ug/L	RF	ug/L	RF	ug/L	RF	ug/L	RF
Aroclor-1268 (2)												
Aroclor-1268 (3)												
Aroclor-1268 (4)												
Aroclor-1268 (5)												
Aroclor-1268 [2C]												
Aroclor-1268 (1) [2C]												
Aroclor-1268 (2) [2C]												
Aroclor-1268 (3) [2C]												
Aroclor-1268 (4) [2C]												
Aroclor-1268 (5) [2C]												
Tetrachloro-m-xylene												
Tetrachloro-m-xylene [2C]												
Decachlorobiphenyl												
Decachlorobiphenyl [2C]												

INITIAL CALIBRATION DATA (Continued)

SW8082A

Laboratory:	Empirical Laboratories, LLC	SDG:	1110003
Client:	Tetra Tech NUS, Inc. (T010)	Project:	Navy Fuel Depot CTO JM46
Calibration:	1286006	Instrument:	GL-ECD3
Matrix:	Water	Calibration Dates:	11/24/10 20:08 10/10/11 21:37

Compound	Level 31		Level 32		Level 33		Level 34		Level 35		Level 36	
	ug/L	RF	ug/L	RF	ug/L	RF	ug/L	RF	ug/L	RF	ug/L	RF
Aroclor-1016												
Aroclor-1016 (1)												
Aroclor-1016 (2)												
Aroclor-1016 (3)												
Aroclor-1016 (4)												
Aroclor-1016 (5)												
Aroclor-1016 [2C]												
Aroclor-1016 (1) [2C]												
Aroclor-1016 (2) [2C]												
Aroclor-1016 (3) [2C]												
Aroclor-1016 (4) [2C]												
Aroclor-1016 (5) [2C]												
Aroclor-1221			2500	307532	1000	333316.4	750	320409.6	500	348046	100	378792
Aroclor-1221 (1)			2500	728923.6	1000	778165	750	723902.6	500	802690	100	824840
Aroclor-1221 (2)			2500	216062.4	1000	237462	750	244377.3	500	257578	100	311960
Aroclor-1221 (3)			2500	104058	1000	121292	750	128961.3	500	132516	100	159070
Aroclor-1221 (4)			2500	300668.4	1000	322243	750	314241.3	500	330856	100	362630
Aroclor-1221 (5)			2500	187947.6	1000	207420	750	190565.3	500	216590	100	235460
Aroclor-1221 [2C]			2500	303385.7	1000	330077.8	750	338338.9	500	356715.6	100	437050
Aroclor-1221 (1) [2C]			2500	664010.4	1000	719811	750	733489.3	500	776988	100	935640
Aroclor-1221 (2) [2C]			2500	223760.4	1000	246313	750	255236	500	272496	100	365590
Aroclor-1221 (3) [2C]			2500	116794	1000	128145	750	134201.3	500	140266	100	170860
Aroclor-1221 (4) [2C]			2500	322662.8	1000	347962	750	355941.3	500	370240	100	441340
Aroclor-1221 (5) [2C]			2500	189701.2	1000	208158	750	212826.7	500	223588	100	271820
Aroclor-1242												
Aroclor-1242 (1)												
Aroclor-1242 (2)												
Aroclor-1242 (3)												
Aroclor-1242 (4)												
Aroclor-1242 (5)												
Aroclor-1242 [2C]												

INITIAL CALIBRATION DATA (Continued)

SW8082A

Laboratory:	Empirical Laboratories, LLC		SDG:	1110003	
Client:	Tetra Tech NUS, Inc. (T010)		Project:	Navy Fuel Depot CTO JM46	
Calibration:	1286006		Instrument:	GL-ECD3	
Matrix:	Water		Calibration Dates:	11/24/10 20:08	10/10/11 21:37

Compound	Level 31		Level 32		Level 33		Level 34		Level 35		Level 36	
	ug/L	RF	ug/L	RF	ug/L	RF	ug/L	RF	ug/L	RF	ug/L	RF
Aroclor-1242 (1) [2C]												
Aroclor-1242 (2) [2C]												
Aroclor-1242 (3) [2C]												
Aroclor-1242 (4) [2C]												
Aroclor-1242 (5) [2C]												
Aroclor-1254												
Aroclor-1254 (1)												
Aroclor-1254 (2)												
Aroclor-1254 (3)												
Aroclor-1254 (4)												
Aroclor-1254 (5)												
Aroclor-1254 [2C]												
Aroclor-1254 (1) [2C]												
Aroclor-1254 (2) [2C]												
Aroclor-1254 (3) [2C]												
Aroclor-1254 (4) [2C]												
Aroclor-1254 (5) [2C]												
Aroclor-1260												
Aroclor-1260 (1)												
Aroclor-1260 (2)												
Aroclor-1260 (3)												
Aroclor-1260 (4)												
Aroclor-1260 (5)												
Aroclor-1260 [2C]												
Aroclor-1260 (1) [2C]												
Aroclor-1260 (2) [2C]												
Aroclor-1260 (3) [2C]												
Aroclor-1260 (4) [2C]												
Aroclor-1260 (5) [2C]												
Aroclor-1268												
Aroclor-1268 (1)												

INITIAL CALIBRATION DATA (Continued)

SW8082A

Laboratory:	Empirical Laboratories, LLC	SDG:	1110003	
Client:	Tetra Tech NUS, Inc. (T010)	Project:	Navy Fuel Depot CTO JM46	
Calibration:	1286006	Instrument:	GL-ECD3	
Matrix:	Water	Calibration Dates:	11/24/10 20:08	10/10/11 21:37

Compound	Level 31		Level 32		Level 33		Level 34		Level 35		Level 36	
	ug/L	RF	ug/L	RF	ug/L	RF	ug/L	RF	ug/L	RF	ug/L	RF
Aroclor-1268 (2)												
Aroclor-1268 (3)												
Aroclor-1268 (4)												
Aroclor-1268 (5)												
Aroclor-1268 [2C]												
Aroclor-1268 (1) [2C]												
Aroclor-1268 (2) [2C]												
Aroclor-1268 (3) [2C]												
Aroclor-1268 (4) [2C]												
Aroclor-1268 (5) [2C]												
Tetrachloro-m-xylene												
Tetrachloro-m-xylene [2C]												
Decachlorobiphenyl												
Decachlorobiphenyl [2C]												

INITIAL CALIBRATION DATA (Continued)
SW8082A

Laboratory:	Empirical Laboratories, LLC	SDG:	1110003
Client:	Tetra Tech NUS, Inc. (T010)	Project:	Navy Fuel Depot CTO JM46
Calibration:	1286006	Instrument:	GL-ECD3
Matrix:	Water	Calibration Dates:	11/24/10 20:08 10/10/11 21:37

Compound	Level 37		Level 38		Level 39		Level 40		Level 41		Level 42	
	ug/L	RF	ug/L	RF	ug/L	RF	ug/L	RF	ug/L	RF	ug/L	RF
Aroclor-1016												
Aroclor-1016 (1)												
Aroclor-1016 (1) [2C]												
Aroclor-1016 (2)												
Aroclor-1016 (2) [2C]												
Aroclor-1016 (3)												
Aroclor-1016 (3) [2C]												
Aroclor-1016 (4)												
Aroclor-1016 (4) [2C]												
Aroclor-1016 (5)												
Aroclor-1016 (5) [2C]												
Aroclor-1016 [2C]												
Aroclor-1221	50	396.84										
Aroclor-1221 (1)	50	849.84										
Aroclor-1221 (1) [2C]	50	999.46										
Aroclor-1221 (2)	50	350.5										
Aroclor-1221 (2) [2C]	50	395.28										
Aroclor-1221 (3)	50	167.7										
Aroclor-1221 (3) [2C]	50	182.74										
Aroclor-1221 (4)	50	373.22										
Aroclor-1221 (4) [2C]	50	459.36										
Aroclor-1221 (5)	50	242.94										
Aroclor-1221 (5) [2C]	50	286										
Aroclor-1221 [2C]	50	464.568										
Aroclor-1242			2500	714.6152	1000	773.864	750	766.4409	500	800.142	100	839.58
Aroclor-1242 (1)			2500	1153.122	1000	1206.357	750	1152.667	500	1176.62	100	1132.34
Aroclor-1242 (1) [2C]			2500	1004.368	1000	1128.679	750	1186.243	500	1272.788	100	1376.57
Aroclor-1242 (2)			2500	661.4412	1000	716.351	750	737.4827	500	749.32	100	761.54
Aroclor-1242 (2) [2C]			2500	393.898	1000	438.104	750	454.1413	500	484.81	100	531.97
Aroclor-1242 (3)			2500	656.1024	1000	734.123	750	751.2386	500	812.104	100	984.35
Aroclor-1242 (3) [2C]			2500	765.3696	1000	814.241	750	874.14	500	894.472	100	984.68

INITIAL CALIBRATION DATA (Continued)
SW8082A

Laboratory: Empirical Laboratories, LLC
SDG: 1110003
Client: Tetra Tech NUS, Inc. (T010)
Project: Navy Fuel Depot CTO JM46
Calibration: 1286006
Instrument: GL-ECD3
Matrix: Water
Calibration Dates: 11/24/10 20:08 10/10/11 21:37

Compound	Level 37		Level 38		Level 39		Level 40		Level 41		Level 42	
	ug/L	RF	ug/L	RF	ug/L	RF	ug/L	RF	ug/L	RF	ug/L	RF
Aroclor-1242 (4)			2500	506.5976	1000	569.426	750	558.7454	500	596.908	100	686.11
Aroclor-1242 (4) [2C]			2500	737.3052	1000	827.079	750	907.6013	500	978.762	100	1046.56
Aroclor-1242 (5)			2500	595.8128	1000	643.063	750	632.0707	500	665.758	100	633.56
Aroclor-1242 (5) [2C]			2500	665.342	1000	713.173	750	750.8666	500	807.302	100	883.14
Aroclor-1242 [2C]			2500	713.2564	1000	784.2552	750	834.5984	500	887.6268	100	964.584
Aroclor-1254												
Aroclor-1254 (1)												
Aroclor-1254 (1) [2C]												
Aroclor-1254 (2)												
Aroclor-1254 (2) [2C]												
Aroclor-1254 (3)												
Aroclor-1254 (3) [2C]												
Aroclor-1254 (4)												
Aroclor-1254 (4) [2C]												
Aroclor-1254 (5)												
Aroclor-1254 (5) [2C]												
Aroclor-1254 [2C]												
Aroclor-1260												
Aroclor-1260 (1)												
Aroclor-1260 (1) [2C]												
Aroclor-1260 (2)												
Aroclor-1260 (2) [2C]												
Aroclor-1260 (3)												
Aroclor-1260 (3) [2C]												
Aroclor-1260 (4)												
Aroclor-1260 (4) [2C]												
Aroclor-1260 (5)												
Aroclor-1260 (5) [2C]												
Aroclor-1260 [2C]												
Aroclor-1268												
Aroclor-1268 (1)												

INITIAL CALIBRATION DATA (Continued)
SW8082A

Laboratory:	Empirical Laboratories, LLC	SDG:	1110003
Client:	Tetra Tech NUS, Inc. (T010)	Project:	Navy Fuel Depot CTO JM46
Calibration:	1286006	Instrument:	GL-ECD3
Matrix:	Water	Calibration Dates:	11/24/10 20:08 10/10/11 21:37

Compound	Level 37		Level 38		Level 39		Level 40		Level 41		Level 42	
	ug/L	RF	ug/L	RF	ug/L	RF	ug/L	RF	ug/L	RF	ug/L	RF
Aroclor-1268 (1) [2C]												
Aroclor-1268 (2)												
Aroclor-1268 (2) [2C]												
Aroclor-1268 (3)												
Aroclor-1268 (3) [2C]												
Aroclor-1268 (4)												
Aroclor-1268 (4) [2C]												
Aroclor-1268 (5)												
Aroclor-1268 (5) [2C]												
Aroclor-1268 [2C]												
Decachlorobiphenyl												
Decachlorobiphenyl [2C]												
Tetrachloro-m-xylene												
Tetrachloro-m-xylene [2C]												

INITIAL CALIBRATION DATA (Continued)

SW8082A

Laboratory:	Empirical Laboratories, LLC	SDG:	1110003
Client:	Tetra Tech NUS, Inc. (T010)	Project:	Navy Fuel Depot CTO JM46
Calibration:	1286006	Instrument:	GL-ECD3
Matrix:	Water	Calibration Dates:	11/24/10 20:08 10/10/11 21:37

Compound	Mean RF	RF RSD	Mean RT	RT RSD	Linear r	Quad COD	LIMIT	Q
Aroclor-1016	1086.482	7.382581	7.696667	1.181709E-02			20	
Aroclor-1016 (1)	1719.155	8.695351	7.507	1.616572E-02			20	
Aroclor-1016 (2)	841.0747	6.897483	6.939833	1.516496E-02			20	
Aroclor-1016 (3)	813.2131	5.836037	7.1625	1.046833E-02			20	
Aroclor-1016 (4)	1232.628	7.826969	7.480167	1.264096E-02			20	
Aroclor-1016 (5)	826.3383	6.743423	7.696667	1.181709E-02			20	
Aroclor-1016 [2C]	834.053	16.28738	6.989666	8.416166E-03			20	
Aroclor-1016 (1) [2C]	1218.203	17.94857	6.683167	2.045933E-02			20	
Aroclor-1016 (2) [2C]	686.3446	15.89462	6.405667	1.793878E-02			20	
Aroclor-1016 (3) [2C]	951.4247	15.06136	6.662167	2.326798E-02			20	
Aroclor-1016 (4) [2C]	646.6414	15.56012	6.891167	1.621363E-02			20	
Aroclor-1016 (5) [2C]	667.651	16.23689	6.989666	8.416166E-03			20	
Aroclor-1221	347.4893	9.924339	5.7135	4.536247E-02			20	
Aroclor-1221 (1)	784.7269	6.504846	5.7135	4.536247E-02			20	
Aroclor-1221 (2)	269.6566	18.92312	4.818833	5.276151E-02			20	
Aroclor-1221 (3)	135.5996	17.55865	5.322	5.949774E-02			20	
Aroclor-1221 (4)	333.9765	8.476765	5.551167	5.769338E-02			20	
Aroclor-1221 (5)	213.4872	10.62871	5.638167	4.761936E-02			20	
Aroclor-1221 [2C]	371.6894	17.28238	4.621167	2.395263E-02			20	
Aroclor-1221 (1) [2C]	804.8998	16.47422	4.621167	2.395263E-02			20	
Aroclor-1221 (2) [2C]	293.1126	23.90633	3.882667	0.0386834			20	*
Aroclor-1221 (3) [2C]	145.5011	17.6839	4.319833	2.417878E-02			20	
Aroclor-1221 (4) [2C]	382.9177	14.30278	4.487667	2.750918E-02			20	
Aroclor-1221 (5) [2C]	232.0156	16.46603	4.557667	2.353323E-02			20	
Aroclor-1242	791.4603	6.481551	7.114	2.068065E-02			20	
Aroclor-1242 (1)	1175.404	3.172852	6.611	5.346339E-02			20	
Aroclor-1242 (2)	739.2291	6.648799	6.2935	1.573445E-02			20	
Aroclor-1242 (3)	828.5963	18.00172	6.782333	3.062254E-02			20	
Aroclor-1242 (4)	598.9812	11.70324	6.888667	2.426782E-02			20	
Aroclor-1242 (5)	615.0907	8.397498	7.114	2.068065E-02			20	
Aroclor-1242 [2C]	874.1401	14.34553	6.077667	0.0297564			20	
Aroclor-1242 (1) [2C]	1245.915	14.42601	5.314833	9.833187E-03			20	

INITIAL CALIBRATION DATA (Continued)

SW8082A

Laboratory:	Empirical Laboratories, LLC	SDG:	1110003
Client:	Tetra Tech NUS, Inc. (T010)	Project:	Navy Fuel Depot CTO JM46
Calibration:	1286006	Instrument:	GL-ECD3
Matrix:	Water	Calibration Dates:	11/24/10 20:08 10/10/11 21:37

Compound	Mean RF	RF RSD	Mean RT	RT RSD	Linear r	Quad COD	LIMIT	Q
Aroclor-1242 (2) [2C]	485.7606	15.86386	4.645833	2.298644E-02			20	
Aroclor-1242 (3) [2C]	900.7638	12.44385	5.294	1.873726E-02			20	
Aroclor-1242 (4) [2C]	940.3279	15.74699	5.353667	2.229515E-02			20	
Aroclor-1242 (5) [2C]	797.9339	14.08717	6.077667	0.0297564			20	
Aroclor-1254	1707.347	4.326653	10.15817	1.944162E-02			20	
Aroclor-1254 (1)	2187.24	3.024677	9.254667	1.826903E-02			20	
Aroclor-1254 (2)	731.254	6.11381	7.810667	9.312323E-03			20	
Aroclor-1254 (3)	2098.851	5.135603	8.795333	1.043912E-02			20	
Aroclor-1254 (4)	1704.399	4.914188	9.62	6.474001E-03			20	
Aroclor-1254 (5)	1814.992	3.824426	10.15817	1.944162E-02			20	
Aroclor-1254 [2C]	1363.798	13.93896	9.131333	7.810192E-03	0.9970381		0.995	
Aroclor-1254 (1) [2C]	1770.465	13.0785	8.3075	1.097712E-03			20	
Aroclor-1254 (2) [2C]	1415.644	14.45847	7.6225	1.239695E-02			20	
Aroclor-1254 (3) [2C]	1214.736	13.66567	7.804333	1.632193E-02			20	
Aroclor-1254 (4) [2C]	911.7627	14.13673	8.472666	2.276172E-02			20	
Aroclor-1254 (5) [2C]	1506.382	14.64173	9.131333	7.810192E-03			20	
Aroclor-1260	2320.766	5.160111	12.07133	8.489679E-03			20	
Aroclor-1260 (1)	4106.538	4.356999	10.95217	3.799964E-03			20	
Aroclor-1260 (2)	2219.508	6.12611	9.799333	1.940447E-02			20	
Aroclor-1260 (3)	2441.55	5.307402	10.1575	0.0177201			20	
Aroclor-1260 (4)	1755.815	6.285123	10.26133	1.233625E-02			20	
Aroclor-1260 (5)	1080.417	5.298136	12.07133	8.489679E-03			20	
Aroclor-1260 [2C]	1617.191	14.8215	9.829667	1.210242E-02			20	
Aroclor-1260 (1) [2C]	2496.206	13.38858	9.829667	1.210242E-02			20	
Aroclor-1260 (2) [2C]	1537.099	14.83478	8.7125	1.246643E-02			20	
Aroclor-1260 (3) [2C]	1427.741	17.87927	8.906167	1.344607E-02			20	
Aroclor-1260 (4) [2C]	1516.838	14.23116	9.129667	1.585641E-02			20	
Aroclor-1260 (5) [2C]	1108.071	15.0823	9.513	0.0128168			20	
Aroclor-1268	4950.131	5.884554	11.3085	1.188354E-02			20	
Aroclor-1268 (1)	10633.26	7.456442	11.3085	1.188354E-02			20	
Aroclor-1268 (2)	4906.048	5.456476	10.2125	1.012895E-02			20	
Aroclor-1268 (3)	4157.727	4.834059	10.31367	0.0165684			20	

INITIAL CALIBRATION DATA (Continued)

SW8082A

Laboratory:	Empirical Laboratories, LLC		SDG:	1110003	
Client:	Tetra Tech NUS, Inc. (T010)		Project:	Navy Fuel Depot CTO JM46	
Calibration:	1286006		Instrument:	GL-ECD3	
Matrix:	Water		Calibration Dates:	11/24/10 20:08	10/10/11 21:37

Compound	Mean RF	RF RSD	Mean RT	RT RSD	Linear r	Quad COD	LIMIT	Q
Aroclor-1268 (4)	3544.431	4.935248	10.54033	0.0108443			20	
Aroclor-1268 (5)	1509.183	4.2704	10.9575	1.378519E-02			20	
Aroclor-1268 [2C]	2609.566	9.647623	9.6885	5.674121E-03			20	
Aroclor-1268 (1) [2C]	5435.372	9.304561	9.6885	5.674121E-03			20	
Aroclor-1268 (2) [2C]	2529.701	10.17003	8.657166	1.145883E-02			20	
Aroclor-1268 (3) [2C]	2239.34	9.177625	8.736334	9.409822E-03			20	
Aroclor-1268 (4) [2C]	1942.012	10.40219	8.974167	8.895803E-03			20	
Aroclor-1268 (5) [2C]	901.405	10.01399	9.357	1.944801E-02			20	
Tetrachloro-m-xylene	37674.28	4.616576	5.741857	1.602179E-02			20	
Tetrachloro-m-xylene [2C]	36869.02	12.12627	5.084429	2.045503E-02			20	
Decachlorobiphenyl	37420.63	16.02721	12.17614	1.669349E-02			20	
Decachlorobiphenyl [2C]	30193.55	21.03715	11.09257	9.165985E-03	0.9999551		0.995	

INITIAL CALIBRATION CHECK

SW8082A

Laboratory:	Empirical Laboratories, LLC	SDG:	1110003
Client:	Tetra Tech NUS, Inc. (T010)	Project:	Navy Fuel Depot CTO JM46
Instrument ID:	GL-ECD3	Calibration:	1286006
Lab File ID:	028F2801.D	Calibration Date:	10/10/11 00:00
Sequence:	1J28607	Injection Date:	10/10/11
Lab Sample ID:	1J28607-ICV1	Injection Time:	19:45

		CONC. (ug/L)		RESPONSE FACTOR			% DIFF / DRIFT	
COMPOUND	TYPE	STD	ICV	ICAL	ICV	MIN (#)	ICV	LIMIT (#)
Aroclor-1016 (1)	A	1000	964.3	1719.155	1657.742		-3.6	20
Aroclor-1016 (2)	A	1000	991.6	841.0747	834.003		-0.8	20
Aroclor-1016 (3)	A	1000	997.1	813.2131	810.844		-0.3	20
Aroclor-1016 (4)	A	1000	1003	1232.628	1236.746		0.3	20
Aroclor-1016 (5)	A	1000	980.0	826.3383	809.824		-2.0	20
Aroclor-1016 (1) [2C]	A	1000	893.5	1218.203	1088.503		-10.6	20
Aroclor-1016 (2) [2C]	A	1000	939.7	686.3446	644.952		-6.0	20
Aroclor-1016 (3) [2C]	A	1000	963.4	951.4247	916.643		-3.7	20
Aroclor-1016 (4) [2C]	A	1000	933.1	646.6414	603.381		-6.7	20
Aroclor-1016 (5) [2C]	A	1000	949.4	667.651	633.87		-5.1	20
Aroclor-1260 (1)	A	1000	882.0	4106.538	3622.208		-11.8	20
Aroclor-1260 (2)	A	1000	978.6	2219.508	2171.945		-2.1	20
Aroclor-1260 (3)	A	1000	1044	2441.55	2550.106		4.4	20
Aroclor-1260 (4)	A	1000	832.1	1755.815	1461.029		-16.8	20
Aroclor-1260 (5)	A	1000	779.8	1080.417	842.541		-22.0	20 *
Aroclor-1260 (1) [2C]	A	1000	863.2	2496.206	2154.641		-13.7	20
Aroclor-1260 (2) [2C]	A	1000	935.6	1537.099	1438.165		-6.4	20
Aroclor-1260 (3) [2C]	A	1000	918.7	1427.741	1311.635		-8.1	20
Aroclor-1260 (4) [2C]	A	1000	1008	1516.838	1529.655		0.8	20
Aroclor-1260 (5) [2C]	A	1000	830.1	1108.071	919.792		-17.0	20

Column to be used to flag Response Factor and %Diff/Drift values with an asterisk

* Values outside of QC limits

INITIAL CALIBRATION CHECK

SW8082A

Laboratory:	Empirical Laboratories, LLC	SDG:	1110003
Client:	Tetra Tech NUS, Inc. (T010)	Project:	Navy Fuel Depot CTO JM46
Instrument ID:	GL-ECD3	Calibration:	1286006
Lab File ID:	035F3501.D	Calibration Date:	10/10/11 00:00
Sequence:	1J28607	Injection Date:	10/10/11
Lab Sample ID:	1J28607-ICV2	Injection Time:	21:56

		CONC. (ug/L)		RESPONSE FACTOR			% DIFF / DRIFT	
COMPOUND	TYPE	STD	ICV	ICAL	ICV	MIN (#)	ICV	LIMIT (#)
Aroclor-1254 (1)	A	1000	1098	2187.24	2400.516		9.8	20
Aroclor-1254 (2)	A	1000	1060	731.254	775.185		6.0	20
Aroclor-1254 (3)	A	1000	1080	2098.851	2267.501		8.0	20
Aroclor-1254 (4)	A	1000	1092	1704.399	1860.656		9.2	20
Aroclor-1254 (5)	A	1000	1101	1814.992	1997.703		10.1	20
Aroclor-1254 (1) [2C]	A	1000	1028	1770.465	1820.825		2.8	20
Aroclor-1254 (2) [2C]	A	1000	1012	1415.644	1432.582		1.2	20
Aroclor-1254 (3) [2C]	A	1000	1023	1214.736	1242.781		2.3	20
Aroclor-1254 (4) [2C]	A	1000	1029	911.7627	938.068		2.9	20
Aroclor-1254 (5) [2C]	A	1000	1053	1506.382	1585.708		5.3	20

Column to be used to flag Response Factor and %Diff/Drift values with an asterisk

* Values outside of QC limits

CONTINUING CALIBRATION CHECK

SW8082A

Laboratory:	Empirical Laboratories, LLC	SDG:	1110003
Client:	Tetra Tech NUS, Inc. (T010)	Project:	Navy Fuel Depot CTO JM46
Instrument ID:	GL-ECD3	Calibration:	1286006
Lab File ID:	002F0201.D	Calibration Date:	10/10/11 00:00
Sequence:	1J28715	Injection Date:	10/12/11
Lab Sample ID:	1J28715-CCV1	Injection Time:	13:35

		CONC. (ug/L)		RESPONSE FACTOR			% DIFF / DRIFT	
COMPOUND	TYPE	STD	CCV	ICAL	CCV	MIN (#)	CCV	LIMIT (#)
Aroclor-1016 (1)	A	1000	1015	1719.155	1744.796		1.5	20
Aroclor-1016 (2)	A	1000	948.0	841.0747	797.375		-5.2	20
Aroclor-1016 (3)	A	1000	974.5	813.2131	792.504		-2.5	20
Aroclor-1016 (4)	A	1000	972.6	1232.628	1198.831		-2.7	20
Aroclor-1016 (5)	A	1000	947.1	826.3383	782.652		-5.3	20
Aroclor-1016 (1) [2C]	A	1000	1460	1218.203	1779.241		46.1	20 *
Aroclor-1016 (2) [2C]	A	1000	1378	686.3446	945.606		37.8	20 *
Aroclor-1016 (3) [2C]	A	1000	1373	951.4247	1306.512		37.3	20 *
Aroclor-1016 (4) [2C]	A	1000	1147	646.6414	741.534		14.7	20
Aroclor-1016 (5) [2C]	A	1000	1441	667.651	962.303		44.1	20 *
Aroclor-1260 (1)	A	1000	987.9	4106.538	4056.893		-1.2	20
Aroclor-1260 (2)	A	1000	998.0	2219.508	2214.978		-0.2	20
Aroclor-1260 (3)	A	1000	988.5	2441.55	2413.563		-1.1	20
Aroclor-1260 (4)	A	1000	972.3	1755.815	1707.235		-2.8	20
Aroclor-1260 (5)	A	1000	982.7	1080.417	1061.777		-1.7	20
Aroclor-1260 (1) [2C]	A	1000	1400	2496.206	3493.536		40.0	20 *
Aroclor-1260 (2) [2C]	A	1000	1317	1537.099	2024.292		31.7	20 *
Aroclor-1260 (3) [2C]	A	1000	1128	1427.741	1610.77		12.8	20
Aroclor-1260 (4) [2C]	A	1000	1398	1516.838	2120.596		39.8	20 *
Aroclor-1260 (5) [2C]	A	1000	1360	1108.071	1507.012		36.0	20 *
Tetrachloro-m-xylene	A	100.0	91.85	37674.28	34604.73		-8.1	20
Tetrachloro-m-xylene [2C]	A	100.0	98.77	36869.02	36414.12		-1.2	20
Decachlorobiphenyl	A	100.0	88.75	37420.63	33212.2		-11.2	20
Decachlorobiphenyl [2C]	L	100.0	93.71	30193.55	24718.8		-6.3	20

Column to be used to flag Response Factor and %Diff/Drift values with an asterisk

* Values outside of QC limits

CONTINUING CALIBRATION CHECK

SW8082A

Laboratory:	Empirical Laboratories, LLC	SDG:	1110003
Client:	Tetra Tech NUS, Inc. (T010)	Project:	Navy Fuel Depot CTO JM46
Instrument ID:	GL-ECD3	Calibration:	1286006
Lab File ID:	003F0301.D	Calibration Date:	10/10/11 00:00
Sequence:	1J28715	Injection Date:	10/12/11
Lab Sample ID:	1J28715-CCV2	Injection Time:	13:54

		CONC. (ug/L)		RESPONSE FACTOR			% DIFF / DRIFT	
COMPOUND	TYPE	STD	CCV	ICAL	CCV	MIN (#)	CCV	LIMIT (#)
Aroclor-1254 (1)	A	1000	880.9	2187.24	1926.815		-11.9	20
Aroclor-1254 (2)	A	1000	877.7	731.254	641.827		-12.2	20
Aroclor-1254 (3)	A	1000	829.4	2098.851	1740.718		-17.1	20
Aroclor-1254 (4)	A	1000	869.4	1704.399	1481.732		-13.1	20
Aroclor-1254 (5)	A	1000	879.4	1814.992	1596.204		-12.1	20
Aroclor-1254 (1) [2C]	A	1000	1386	1770.465	2453.451		38.6	20 *
Aroclor-1254 (2) [2C]	A	1000	1374	1415.644	1944.78		37.4	20 *
Aroclor-1254 (3) [2C]	A	1000	1397	1214.736	1696.9		39.7	20 *
Aroclor-1254 (4) [2C]	A	1000	1384	911.7627	1262.09		38.4	20 *
Aroclor-1254 (5) [2C]	A	1000	1376	1506.382	2072.107		37.6	20 *

Column to be used to flag Response Factor and %Diff/Drift values with an asterisk

* Values outside of QC limits

CONTINUING CALIBRATION CHECK

SW8082A

Laboratory:	Empirical Laboratories, LLC	SDG:	1110003
Client:	Tetra Tech NUS, Inc. (T010)	Project:	Navy Fuel Depot CTO JM46
Instrument ID:	GL-ECD3	Calibration:	1286006
Lab File ID:	025F2501.D	Calibration Date:	10/10/11 00:00
Sequence:	1J28715	Injection Date:	10/12/11
Lab Sample ID:	1J28715-CCV3	Injection Time:	20:46

		CONC. (ug/L)		RESPONSE FACTOR			% DIFF / DRIFT	
COMPOUND	TYPE	STD	CCV	ICAL	CCV	MIN (#)	CCV	LIMIT (#)
Aroclor-1016 (1)	A	1000	998.0	1719.155	1715.789		-0.2	20
Aroclor-1016 (2)	A	1000	907.8	841.0747	763.493		-9.2	20
Aroclor-1016 (3)	A	1000	923.3	813.2131	750.849		-7.7	20
Aroclor-1016 (4)	A	1000	911.9	1232.628	1124.054		-8.8	20
Aroclor-1016 (5)	A	1000	905.3	826.3383	748.068		-9.5	20
Aroclor-1016 (1) [2C]	A	1000	1153	1218.203	1405.197		15.3	20
Aroclor-1016 (2) [2C]	A	1000	1086	686.3446	745.313		8.6	20
Aroclor-1016 (3) [2C]	A	1000	1079	951.4247	1026.664		7.9	20
Aroclor-1016 (4) [2C]	A	1000	969.9	646.6414	627.209		-3.0	20
Aroclor-1016 (5) [2C]	A	1000	1093	667.651	729.736		9.3	20
Aroclor-1260 (1)	A	1000	999.9	4106.538	4106.114		-0.01	20
Aroclor-1260 (2)	A	1000	962.2	2219.508	2135.528		-3.8	20
Aroclor-1260 (3)	A	1000	985.7	2441.55	2406.599		-1.4	20
Aroclor-1260 (4)	A	1000	1052	1755.815	1846.383		5.2	20
Aroclor-1260 (5)	A	1000	1048	1080.417	1131.792		4.8	20
Aroclor-1260 (1) [2C]	A	1000	1118	2496.206	2789.553		11.8	20
Aroclor-1260 (2) [2C]	A	1000	1054	1537.099	1619.527		5.4	20
Aroclor-1260 (3) [2C]	A	1000	960.1	1427.741	1370.748		-4.0	20
Aroclor-1260 (4) [2C]	A	1000	1007	1516.838	1527.378		0.7	20
Aroclor-1260 (5) [2C]	A	1000	1017	1108.071	1126.917		1.7	20
Tetrachloro-m-xylene	A	100.0	83.69	37674.28	31529.39		-16.3	20
Tetrachloro-m-xylene [2C]	A	100.0	83.16	36869.02	30659.36		-16.8	20
Decachlorobiphenyl	A	100.0	89.02	37420.63	33312.54		-11.0	20
Decachlorobiphenyl [2C]	L	100.0	76.84	30193.55	20328.69		-23.2	20 *

Column to be used to flag Response Factor and %Diff/Drift values with an asterisk

* Values outside of QC limits

CONTINUING CALIBRATION CHECK

SW8082A

Laboratory:	Empirical Laboratories, LLC	SDG:	1110003
Client:	Tetra Tech NUS, Inc. (T010)	Project:	Navy Fuel Depot CTO JM46
Instrument ID:	GL-ECD3	Calibration:	1286006
Lab File ID:	026F2601.D	Calibration Date:	10/10/11 00:00
Sequence:	1J28715	Injection Date:	10/12/11
Lab Sample ID:	1J28715-CCV4	Injection Time:	21:05

		CONC. (ug/L)		RESPONSE FACTOR			% DIFF / DRIFT	
COMPOUND	TYPE	STD	CCV	ICAL	CCV	MIN (#)	CCV	LIMIT (#)
Aroclor-1254 (1)	A	1000	910.4	2187.24	1991.285		-9.0	20
Aroclor-1254 (2)	A	1000	877.0	731.254	641.3		-12.3	20
Aroclor-1254 (3)	A	1000	868.2	2098.851	1822.335		-13.2	20
Aroclor-1254 (4)	A	1000	910.6	1704.399	1552.079		-8.9	20
Aroclor-1254 (5)	A	1000	909.5	1814.992	1650.674		-9.1	20
Aroclor-1254 (1) [2C]	A	1000	1162	1770.465	2057.273		16.2	20
Aroclor-1254 (2) [2C]	A	1000	1166	1415.644	1650.666		16.6	20
Aroclor-1254 (3) [2C]	A	1000	1176	1214.736	1428.898		17.6	20
Aroclor-1254 (4) [2C]	A	1000	1123	911.7627	1024.356		12.3	20
Aroclor-1254 (5) [2C]	A	1000	1146	1506.382	1725.929		14.6	20

Column to be used to flag Response Factor and %Diff/Drift values with an asterisk

* Values outside of QC limits

CONTINUING CALIBRATION CHECK

SW8082A

Laboratory:	Empirical Laboratories, LLC	SDG:	1110003
Client:	Tetra Tech NUS, Inc. (T010)	Project:	Navy Fuel Depot CTO JM46
Instrument ID:	GL-ECD3	Calibration:	1286006
Lab File ID:	002F0201.D	Calibration Date:	10/10/11 00:00
Sequence:	1J29602	Injection Date:	10/19/11
Lab Sample ID:	1J29602-CCV1	Injection Time:	09:23

		CONC. (ug/L)		RESPONSE FACTOR			% DIFF / DRIFT	
COMPOUND	TYPE	STD	CCV	ICAL	CCV	MIN (#)	CCV	LIMIT (#)
Aroclor-1016 (1)	A	1000	1019	1719.155	1751.888		1.9	20
Aroclor-1016 (2)	A	1000	963.3	841.0747	810.238		-3.7	20
Aroclor-1016 (3)	A	1000	973.8	813.2131	791.93		-2.6	20
Aroclor-1016 (4)	A	1000	939.6	1232.628	1158.139		-6.0	20
Aroclor-1016 (5)	A	1000	935.4	826.3383	772.934		-6.5	20
Aroclor-1016 (1) [2C]	A	1000	2267	1218.203	2761.432		127	20 *
Aroclor-1016 (2) [2C]	A	1000	2054	686.3446	1410.033		105	20 *
Aroclor-1016 (3) [2C]	A	1000	2006	951.4247	1908.522		101	20 *
Aroclor-1016 (4) [2C]	A	1000	1678	646.6414	1085.246		67.8	20 *
Aroclor-1016 (5) [2C]	A	1000	2065	667.651	1378.769		107	20 *
Aroclor-1260 (1)	A	1000	950.8	4106.538	3904.488		-4.9	20
Aroclor-1260 (2)	A	1000	982.8	2219.508	2181.374		-1.7	20
Aroclor-1260 (3)	A	1000	959.4	2441.55	2342.555		-4.1	20
Aroclor-1260 (4)	A	1000	965.7	1755.815	1695.584		-3.4	20
Aroclor-1260 (5)	A	1000	926.9	1080.417	1001.472		-7.3	20
Aroclor-1260 (1) [2C]	A	1000	2215	2496.206	5528.948		121	20 *
Aroclor-1260 (2) [2C]	A	1000	2033	1537.099	3124.577		103	20 *
Aroclor-1260 (3) [2C]	A	1000	1843	1427.741	2631.771		84.3	20 *
Aroclor-1260 (4) [2C]	A	1000	2098	1516.838	3182.076		110	20 *
Aroclor-1260 (5) [2C]	A	1000	2125	1108.071	2354.328		112	20 *
Tetrachloro-m-xylene	A	100.0	94.71	37674.28	35681.46		-5.3	20
Tetrachloro-m-xylene [2C]	A	100.0	152.9	36869.02	56372.92		52.9	20 *
Decachlorobiphenyl	A	100.0	83.52	37420.63	31255.71		-16.5	20
Decachlorobiphenyl [2C]	L	100.0	154.4	30193.55	40498.56		54.4	20 *

Column to be used to flag Response Factor and %Diff/Drift values with an asterisk

* Values outside of QC limits

CONTINUING CALIBRATION CHECK

SW8082A

Laboratory:	Empirical Laboratories, LLC	SDG:	1110003
Client:	Tetra Tech NUS, Inc. (T010)	Project:	Navy Fuel Depot CTO JM46
Instrument ID:	GL-ECD3	Calibration:	1286006
Lab File ID:	006F0601.D	Calibration Date:	10/10/11 00:00
Sequence:	1J29602	Injection Date:	10/19/11
Lab Sample ID:	1J29602-CCV2	Injection Time:	10:38

		CONC. (ug/L)		RESPONSE FACTOR			% DIFF / DRIFT	
COMPOUND	TYPE	STD	CCV	ICAL	CCV	MIN (#)	CCV	LIMIT (#)
Aroclor-1016 (1)	A	1000	1070	1719.155	1839.963		7.0	20
Aroclor-1016 (2)	A	1000	1007	841.0747	847.251		0.7	20
Aroclor-1016 (3)	A	1000	1026	813.2131	834.488		2.6	20
Aroclor-1016 (4)	A	1000	1010	1232.628	1244.949		1.0	20
Aroclor-1016 (5)	A	1000	1002	826.3383	828.477		0.3	20
Aroclor-1016 (1) [2C]	A	1000	2357	1218.203	2871.67		136	20 *
Aroclor-1016 (2) [2C]	A	1000	2022	686.3446	1387.926		102	20 *
Aroclor-1016 (3) [2C]	A	1000	1828	951.4247	1739.276		82.8	20 *
Aroclor-1016 (4) [2C]	A	1000	1673	646.6414	1081.975		67.3	20 *
Aroclor-1016 (5) [2C]	A	1000	2079	667.651	1388.368		108	20 *
Aroclor-1260 (1)	A	1000	1030	4106.538	4230.51		3.0	20
Aroclor-1260 (2)	A	1000	1072	2219.508	2378.891		7.2	20
Aroclor-1260 (3)	A	1000	1042	2441.55	2544.746		4.2	20
Aroclor-1260 (4)	A	1000	1053	1755.815	1849.211		5.3	20
Aroclor-1260 (5)	A	1000	996.8	1080.417	1076.981		-0.3	20
Aroclor-1260 (1) [2C]	A	1000	2283	2496.206	5699.66		128	20 *
Aroclor-1260 (2) [2C]	A	1000	2150	1537.099	3305.08		115	20 *
Aroclor-1260 (3) [2C]	A	1000	1942	1427.741	2772.896		94.2	20 *
Aroclor-1260 (4) [2C]	A	1000	2181	1516.838	3307.777		118	20 *
Aroclor-1260 (5) [2C]	A	1000	2204	1108.071	2442.62		120	20 *
Tetrachloro-m-xylene	A	100.0	97.63	37674.28	36782.87		-2.4	20
Tetrachloro-m-xylene [2C]	A	100.0	147.7	36869.02	54443.26		47.7	20 *
Decachlorobiphenyl	A	100.0	91.14	37420.63	34106.81		-8.9	20
Decachlorobiphenyl [2C]	L	100.0	159.2	30193.55	41753.06		59.2	20 *

Column to be used to flag Response Factor and %Diff/Drift values with an asterisk

* Values outside of QC limits

SURROGATE STANDARD RECOVERY AND RT SUMMARY

SW8082A

Laboratory:	Empirical Laboratories, LLC	SDG:	1110003
Client:	Tetra Tech NUS, Inc. (T010)	Project:	Navy Fuel Depot CTO JM46
Sequence:	1J28715	Instrument:	GL-ECD3
		Calibration:	1286006

Surrogate Compound	Spike Level	% Recovery	Recovery Limits	RT	CCV RT	RT Diff	RT Diff Limit	Q
Calibration Check (1J28715-CCV1) ug/L				Lab File ID: 002F0201.D		Analyzed: 10/12/11 13:35		
Tetrachloro-m-xylene	100.0	91.8	80 - 120	6.129	6.129	0.0000	+/-0.030	
Tetrachloro-m-xylene [2C]	100.0	98.8	80 - 120	5.421	5.421	0.0000	+/-0.030	
Decachlorobiphenyl	100.0	88.8	80 - 120	12.707	12.707	0.0000	+/-0.030	
Decachlorobiphenyl [2C]	100.0	93.7	80 - 120	11.573	11.573	0.0000	+/-0.030	
Blank (1J04002-BLK1) ug/L				Lab File ID: 005F0501.D		Analyzed: 10/12/11 14:31		
Tetrachloro-m-xylene	0.5000	72.8	25 - 140	6.13	6.129	0.0010	+/-0.030	
Tetrachloro-m-xylene [2C]	0.5000	84.6	25 - 140	5.424	5.421	0.0030	+/-0.030	
Decachlorobiphenyl	0.5000	37.9	40 - 135	12.708	12.707	0.0010	+/-0.030	*
Decachlorobiphenyl [2C]	0.5000	43.8	40 - 135	11.576	11.573	0.0030	+/-0.030	
LCS (1J04002-BS2) ug/L				Lab File ID: 007F0701.D		Analyzed: 10/12/11 15:09		
Tetrachloro-m-xylene	0.5000	75.5	25 - 140	6.131	6.129	0.0020	+/-0.030	
Tetrachloro-m-xylene [2C]	0.5000	84.2	25 - 140	5.425	5.421	0.0040	+/-0.030	
Decachlorobiphenyl	0.5000	37.9	40 - 135	12.709	12.707	0.0020	+/-0.030	*
Decachlorobiphenyl [2C]	0.5000	42.7	40 - 135	11.577	11.573	0.0040	+/-0.030	
FLC-4-MW01-092911 (1110003-01) ug/L				Lab File ID: 008F0801.D		Analyzed: 10/12/11 15:27		
Tetrachloro-m-xylene	0.5000	69.2	25 - 140	6.13	6.129	0.0010	+/-0.030	
Tetrachloro-m-xylene [2C]	0.5000	74.0	25 - 140	5.424	5.421	0.0030	+/-0.030	
Decachlorobiphenyl	0.5000	41.3	40 - 135	12.708	12.707	0.0010	+/-0.030	
Decachlorobiphenyl [2C]	0.5000	46.0	40 - 135	11.576	11.573	0.0030	+/-0.030	
FLC-4-MW02-092911 (1110003-03) ug/L				Lab File ID: 009F0901.D		Analyzed: 10/12/11 15:46		
Tetrachloro-m-xylene	0.5000	68.6	25 - 140	6.13	6.129	0.0010	+/-0.030	
Tetrachloro-m-xylene [2C]	0.5000	68.2	25 - 140	5.426	5.421	0.0050	+/-0.030	
Decachlorobiphenyl	0.5000	38.2	40 - 135	12.71	12.707	0.0030	+/-0.030	*
Decachlorobiphenyl [2C]	0.5000	41.5	40 - 135	11.576	11.573	0.0030	+/-0.030	
FLC-5-MW05-092911 (1110003-05) ug/L				Lab File ID: 010F1001.D		Analyzed: 10/12/11 16:05		
Tetrachloro-m-xylene	0.5000	49.8	25 - 140	6.13	6.129	0.0010	+/-0.030	
Tetrachloro-m-xylene [2C]	0.5000	42.7	25 - 140	5.426	5.421	0.0050	+/-0.030	
Decachlorobiphenyl	0.5000	20.9	40 - 135	12.708	12.707	0.0010	+/-0.030	*
Decachlorobiphenyl [2C]	0.5000	18.4	40 - 135	11.577	11.573	0.0040	+/-0.030	*
FLC-5-MW04-092911 (1110003-07) ug/L				Lab File ID: 011F1101.D		Analyzed: 10/12/11 16:23		
Tetrachloro-m-xylene	0.5000	55.4	25 - 140	6.131	6.129	0.0020	+/-0.030	
Tetrachloro-m-xylene [2C]	0.5000	54.2	25 - 140	5.425	5.421	0.0040	+/-0.030	
Decachlorobiphenyl	0.5000	26.9	40 - 135	12.709	12.707	0.0020	+/-0.030	*
Decachlorobiphenyl [2C]	0.5000	26.1	40 - 135	11.577	11.573	0.0040	+/-0.030	*

SURROGATE STANDARD RECOVERY AND RT SUMMARY

SW8082A

Laboratory:	Empirical Laboratories, LLC	SDG:	1110003
Client:	Tetra Tech NUS, Inc. (T010)	Project:	Navy Fuel Depot CTO JM46
Sequence:	1J28715	Instrument:	GL-ECD3
		Calibration:	1286006

Surrogate Compound	Spike Level	% Recovery	Recovery Limits	RT	CCV RT	RT Diff	RT Diff Limit	Q
FLC-5-MW03-092911 (1110003-09) ug/L				Lab File ID: 012F1201.D		Analyzed: 10/12/11 16:42		
Tetrachloro-m-xylene	0.5000	39.4	25 - 140	6.131	6.129	0.0020	+/-0.030	
Tetrachloro-m-xylene [2C]	0.5000	33.7	25 - 140	5.425	5.421	0.0040	+/-0.030	
Decachlorobiphenyl	0.5000	14.7	40 - 135	12.708	12.707	0.0010	+/-0.030	*
Decachlorobiphenyl [2C]	0.5000	12.6	40 - 135	11.575	11.573	0.0020	+/-0.030	*
FLC-RB02-092911 (1110003-11) ug/L				Lab File ID: 013F1301.D		Analyzed: 10/12/11 17:01		
Tetrachloro-m-xylene	0.5000	70.8	25 - 140	6.129	6.129	0.0000	+/-0.030	
Tetrachloro-m-xylene [2C]	0.5000	74.1	25 - 140	5.425	5.421	0.0040	+/-0.030	
Decachlorobiphenyl	0.5000	28.2	40 - 135	12.709	12.707	0.0020	+/-0.030	*
Decachlorobiphenyl [2C]	0.5000	30.0	40 - 135	11.579	11.573	0.0060	+/-0.030	*
FLC-5-MW01-092911 (1110003-12) ug/L				Lab File ID: 014F1401.D		Analyzed: 10/12/11 17:20		
Tetrachloro-m-xylene	0.5000	49.0	25 - 140	6.131	6.129	0.0020	+/-0.030	
Tetrachloro-m-xylene [2C]	0.5000	34.8	25 - 140	5.425	5.421	0.0040	+/-0.030	
Decachlorobiphenyl	0.5000	20.2	40 - 135	12.707	12.707	0.0000	+/-0.030	*
Decachlorobiphenyl [2C]	0.5000	14.4	40 - 135	11.578	11.573	0.0050	+/-0.030	*
Matrix Spike (1J04002-MS2) ug/L				Lab File ID: 017F1701.D		Analyzed: 10/12/11 18:16		
Tetrachloro-m-xylene	0.5000	44.3	25 - 140	6.13	6.129	0.0010	+/-0.030	
Tetrachloro-m-xylene [2C]	0.5000	31.6	25 - 140	5.426	5.421	0.0050	+/-0.030	
Decachlorobiphenyl	0.5000	13.9	40 - 135	12.71	12.707	0.0030	+/-0.030	*
Decachlorobiphenyl [2C]	0.5000	8.97	40 - 135	11.577	11.573	0.0040	+/-0.030	*
Matrix Spike Dup (1J04002-MSD2) ug/L				Lab File ID: 018F1801.D		Analyzed: 10/12/11 18:35		
Tetrachloro-m-xylene	0.5000	35.2	25 - 140	6.131	6.129	0.0020	+/-0.030	
Tetrachloro-m-xylene [2C]	0.5000	24.6	25 - 140	5.425	5.421	0.0040	+/-0.030	*
Decachlorobiphenyl	0.5000	16.5	40 - 135	12.709	12.707	0.0020	+/-0.030	*
Decachlorobiphenyl [2C]	0.5000	10.2	40 - 135	11.579	11.573	0.0060	+/-0.030	*
FLC-5-MW02-092911 (1110003-14) ug/L				Lab File ID: 019F1901.D		Analyzed: 10/12/11 18:54		
Tetrachloro-m-xylene	0.5000	44.9	25 - 140	6.131	6.129	0.0020	+/-0.030	
Tetrachloro-m-xylene [2C]	0.5000	38.7	25 - 140	5.425	5.421	0.0040	+/-0.030	
Decachlorobiphenyl	0.5000	13.9	40 - 135	12.711	12.707	0.0040	+/-0.030	*
Decachlorobiphenyl [2C]	0.5000	9.65	40 - 135	11.577	11.573	0.0040	+/-0.030	*
Calibration Check (1J28715-CCV3) ug/L				Lab File ID: 025F2501.D		Analyzed: 10/12/11 20:46		
Tetrachloro-m-xylene	100.0	83.7	80 - 120	6.131	6.129	0.0020	+/-0.030	
Tetrachloro-m-xylene [2C]	100.0	83.2	80 - 120	5.425	5.421	0.0040	+/-0.030	
Decachlorobiphenyl	100.0	89.0	80 - 120	12.708	12.707	0.0010	+/-0.030	
Decachlorobiphenyl [2C]	100.0	76.8	80 - 120	11.579	11.573	0.0060	+/-0.030	*

SURROGATE STANDARD RECOVERY AND RT SUMMARY

SW8082A

Laboratory:	Empirical Laboratories, LLC	SDG:	1110003
Client:	Tetra Tech NUS, Inc. (T010)	Project:	Navy Fuel Depot CTO JM46
Sequence:	1J29602	Instrument:	GL-ECD3
		Calibration:	1286006

Surrogate Compound	Spike Level	% Recovery	Recovery Limits	RT	CCV RT	RT Diff	RT Diff Limit	Q
Calibration Check (1J29602-CCV1) ug/L				Lab File ID: 002F0201.D		Analyzed: 10/19/11 09:23		
Tetrachloro-m-xylene	100.0	94.7	80 - 120	6.063	6.063	0.0000	+/-0.030	
Tetrachloro-m-xylene [2C]	100.0	153	80 - 120	5.369	5.369	0.0000	+/-0.030	*
Decachlorobiphenyl	100.0	83.5	80 - 120	12.613	12.613	0.0000	+/-0.030	
Decachlorobiphenyl [2C]	100.0	154	80 - 120	11.499	11.499	0.0000	+/-0.030	*
Blank (1J13003-BLK2) ug/L				Lab File ID: 003F0301.D		Analyzed: 10/19/11 09:42		
Tetrachloro-m-xylene	0.5000	74.8	25 - 140	6.063	6.063	0.0000	+/-0.030	
Tetrachloro-m-xylene [2C]	0.5000	131	25 - 140	5.369	5.369	0.0000	+/-0.030	
Decachlorobiphenyl	0.5000	46.9	40 - 135	12.613	12.613	0.0000	+/-0.030	
Decachlorobiphenyl [2C]	0.5000	89.0	40 - 135	11.499	11.499	0.0000	+/-0.030	
LCS (1J13003-BS3) ug/L				Lab File ID: 004F0401.D		Analyzed: 10/19/11 10:01		
Tetrachloro-m-xylene	0.5000	72.5	25 - 140	6.064	6.063	0.0010	+/-0.030	
Tetrachloro-m-xylene [2C]	0.5000	127	25 - 140	5.37	5.369	0.0010	+/-0.030	
Decachlorobiphenyl	0.5000	53.5	40 - 135	12.614	12.613	0.0010	+/-0.030	
Decachlorobiphenyl [2C]	0.5000	98.6	40 - 135	11.498	11.499	-0.0010	+/-0.030	
FLC-5-MW02-092911 (1110003-14RE1) ug/L				Lab File ID: 005F0501.D		Analyzed: 10/19/11 10:19		
Tetrachloro-m-xylene	0.4630	63.1	25 - 140	6.064	6.063	0.0010	+/-0.030	
Tetrachloro-m-xylene [2C]	0.4630	109	25 - 140	5.371	5.369	0.0020	+/-0.030	
Decachlorobiphenyl	0.4630	19.0	40 - 135	12.614	12.613	0.0010	+/-0.030	*
Decachlorobiphenyl [2C]	0.4630	33.9	40 - 135	11.5	11.499	0.0010	+/-0.030	*
Calibration Check (1J29602-CCV2) ug/L				Lab File ID: 006F0601.D		Analyzed: 10/19/11 10:38		
Tetrachloro-m-xylene	100.0	97.6	80 - 120	6.064	6.063	0.0010	+/-0.030	
Tetrachloro-m-xylene [2C]	100.0	148	80 - 120	5.371	5.369	0.0020	+/-0.030	*
Decachlorobiphenyl	100.0	91.1	80 - 120	12.615	12.613	0.0020	+/-0.030	
Decachlorobiphenyl [2C]	100.0	159	80 - 120	11.501	11.499	0.0020	+/-0.030	*

HOLDING TIME SUMMARY

SW8082A

Laboratory: Empirical Laboratories, LLC SDG: 1110003

Client: Tetra Tech NUS, Inc. (T010) Project: Navy Fuel Depot CTO JM46

Sample Name	Date Collected	Date Received	Date Prepared	Days to Prep	Max Days to Prep	Date Analyzed	Days to Analysis	Max Days to Analysis	Q
FLC-4-MW01-092911	09/29/11 08:20	10/01/11 09:10	10/04/11 11:10	5.16	7.00	10/12/11 15:27	8.18	40.00	
FLC-4-MW02-092911	09/29/11 09:30	10/01/11 09:10	10/04/11 11:10	5.11	7.00	10/12/11 15:46	8.19	40.00	
FLC-5-MW05-092911	09/29/11 11:25	10/01/11 09:10	10/04/11 11:10	5.03	7.00	10/12/11 16:05	8.20	40.00	
FLC-5-MW04-092911	09/29/11 12:50	10/01/11 09:10	10/04/11 11:10	4.97	7.00	10/12/11 16:23	8.22	40.00	
FLC-5-MW03-092911	09/29/11 14:00	10/01/11 09:10	10/04/11 11:10	4.92	7.00	10/12/11 16:42	8.23	40.00	
FLC-RB02-092911	09/29/11 14:35	10/01/11 09:10	10/04/11 11:10	4.90	7.00	10/12/11 17:01	8.24	40.00	
FLC-5-MW01-092911	09/30/11 09:15	10/01/11 09:10	10/04/11 11:10	4.12	7.00	10/12/11 17:20	8.26	40.00	
FLC-5-MW02-092911	09/30/11 11:05	10/01/11 09:10	10/04/11 11:10	4.05	7.00	10/12/11 18:54	8.32	40.00	
FLC-5-MW02-092911	09/30/11 11:05	10/01/11 09:10	10/13/11 13:30	13.14	7.00	10/19/11 10:19	5.87	40.00	*

ANALYSIS DATA SHEET

LCS

Laboratory: Empirical Laboratories, LLC
SDG: 1110003
Client: Tetra Tech NUS, Inc. (T010)
Project: Navy Fuel Depot CTO JM46
Matrix:
Laboratory ID: 1J04002-BS2
File ID: 007F0701.D
Sampled:
Prepared:
Analyzed: 10/12/11 15:09
Solids:
Preparation: EXT_3510
Dilution:
Batch: 1J04002
Sequence: 1J28715
Calibration: 1286006
Instrument: GL-ECD3

CAS NO.	COMPOUND	CONC. (ug/L)	DL	LOD	LOQ	Q
12674-11-2	Aroclor-1016	1.069	0.120	0.250	0.500	P
11104-28-2	Aroclor-1221		0.120	0.250	0.500	U
11141-16-5	Aroclor-1232		0.120	0.250	0.500	U
53469-21-9	Aroclor-1242		0.120	0.250	0.500	U
12672-29-6	Aroclor-1248		0.120	0.250	0.500	U
11097-69-1	Aroclor-1254		0.120	0.250	0.500	U
11096-82-5	Aroclor-1260	3.929	0.120	0.250	0.500	P

SYSTEM MONITORING COMPOUND	ADDED (ug/L)	CONC (ug/L)	% REC	QC LIMITS	Q
Tetrachloro-m-xylene	0.5000	0.3774	75.5	25 - 140	
Decachlorobiphenyl	0.5000	0.1895	37.9	40 - 135	

ANALYSIS DATA SHEET

LCS

Laboratory: Empirical Laboratories, LLC
SDG: 1110003
Client: Tetra Tech NUS, Inc. (T010)
Project: Navy Fuel Depot CTO JM46
Matrix:
Laboratory ID: 1J04002-BS2
File ID: 007R0701.D
Sampled:
Prepared:
Analyzed: 10/12/11 15:09
Solids:
Preparation: EXT_3510
Dilution:
Batch: 1J04002
Sequence: 1J28715
Calibration: 1286006
Instrument: GL-ECD3

CAS NO.	COMPOUND	CONC. (ug/L)	DL	LOD	LOQ	Q
12674-11-2	Aroclor-1016 [2C]	1.783	0.120	0.250	0.500	P, X
11104-28-2	Aroclor-1221 [2C]		0.120	0.250	0.500	U
11141-16-5	Aroclor-1232 [2C]		0.120	0.250	0.500	U
53469-21-9	Aroclor-1242 [2C]		0.120	0.250	0.500	U
12672-29-6	Aroclor-1248 [2C]		0.120	0.250	0.500	U
11097-69-1	Aroclor-1254 [2C]		0.120	0.250	0.500	X U
11096-82-5	Aroclor-1260 [2C]	6.871	0.120	0.250	0.500	P, X

SYSTEM MONITORING COMPOUND	ADDED (ug/L)	CONC (ug/L)	% REC	QC LIMITS	Q
Tetrachloro-m-xylene [2C]	0.5000	0.4209	84.2	25 - 140	
Decachlorobiphenyl [2C]	0.5000	0.2135	42.7	40 - 135	Y

ANALYSIS DATA SHEET

Matrix Spike

Laboratory: Empirical Laboratories, LLC SDG: 1110003

Client: Tetra Tech NUS, Inc. (T010) Project: Navy Fuel Depot CTO JM46

Matrix: Laboratory ID: 1J04002-MS2 File ID: 017F1701.D

Sampled: Prepared: Analyzed: 10/12/11 18:16

Solids: Preparation: EXT_3510 Dilution:

Batch: 1J04002 Sequence: 1J28715 Calibration: 1286006 Instrument: GL-ECD3

CAS NO.	COMPOUND	CONC. (ug/L)	DL	LOD	LOQ	Q
12674-11-2	Aroclor-1016	0.8897	0.120	0.250	0.500	
11104-28-2	Aroclor-1221		0.120	0.250	0.500	U
11141-16-5	Aroclor-1232		0.120	0.250	0.500	U
53469-21-9	Aroclor-1242		0.120	0.250	0.500	U
12672-29-6	Aroclor-1248		0.120	0.250	0.500	U
11097-69-1	Aroclor-1254		0.120	0.250	0.500	U
11096-82-5	Aroclor-1260	1.157	0.120	0.250	0.500	P

SYSTEM MONITORING COMPOUND	ADDED (ug/L)	CONC (ug/L)	% REC	QC LIMITS	Q
Tetrachloro-m-xylene	0.5000	0.2216	44.3	25 - 140	
Decachlorobiphenyl	0.5000	0.06927	13.9	40 - 135	

ANALYSIS DATA SHEET

Matrix Spike

Laboratory: Empirical Laboratories, LLC SDG: 1110003

Client: Tetra Tech NUS, Inc. (T010) Project: Navy Fuel Depot CTO JM46

Matrix: Laboratory ID: 1J04002-MS2 File ID: 017R1701.D

Sampled: Prepared: Analyzed: 10/12/11 18:16

Solids: Preparation: EXT_3510 Dilution:

Batch: 1J04002 Sequence: 1J28715 Calibration: 1286006 Instrument: GL-ECD3

CAS NO.	COMPOUND	CONC. (ug/L)	DL	LOD	LOQ	Q
12674-11-2	Aroclor-1016 [2C]	0.8907	0.120	0.250	0.500	X
11104-28-2	Aroclor-1221 [2C]		0.120	0.250	0.500	U
11141-16-5	Aroclor-1232 [2C]		0.120	0.250	0.500	U
53469-21-9	Aroclor-1242 [2C]		0.120	0.250	0.500	U
12672-29-6	Aroclor-1248 [2C]		0.120	0.250	0.500	U
11097-69-1	Aroclor-1254 [2C]		0.120	0.250	0.500	X U
11096-82-5	Aroclor-1260 [2C]	0.6988	0.120	0.250	0.500	P, X

SYSTEM MONITORING COMPOUND	ADDED (ug/L)	CONC (ug/L)	% REC	QC LIMITS	Q
Tetrachloro-m-xylene [2C]	0.5000	0.1579	31.6	25 - 140	
Decachlorobiphenyl [2C]	0.5000	0.04484	8.97	40 - 135	Y

ANALYSIS DATA SHEET

Matrix Spike Dup

Laboratory: Empirical Laboratories, LLC SDG: 1110003

Client: Tetra Tech NUS, Inc. (T010) Project: Navy Fuel Depot CTO JM46

Matrix: Laboratory ID: 1J04002-MSD2 File ID: 018F1801.D

Sampled: Prepared: Analyzed: 10/12/11 18:35

Solids: Preparation: EXT_3510 Dilution:

Batch: 1J04002 Sequence: 1J28715 Calibration: 1286006 Instrument: GL-ECD3

CAS NO.	COMPOUND	CONC. (ug/L)	DL	LOD	LOQ	Q
12674-11-2	Aroclor-1016	0.9376	0.120	0.250	0.500	P
11104-28-2	Aroclor-1221		0.120	0.250	0.500	U
11141-16-5	Aroclor-1232		0.120	0.250	0.500	U
53469-21-9	Aroclor-1242		0.120	0.250	0.500	U
12672-29-6	Aroclor-1248		0.120	0.250	0.500	U
11097-69-1	Aroclor-1254		0.120	0.250	0.500	U
11096-82-5	Aroclor-1260	1.083	0.120	0.250	0.500	P

SYSTEM MONITORING COMPOUND	ADDED (ug/L)	CONC (ug/L)	% REC	QC LIMITS	Q
Tetrachloro-m-xylene	0.5000	0.1760	35.2	25 - 140	
Decachlorobiphenyl	0.5000	0.08241	16.5	40 - 135	

ANALYSIS DATA SHEET

Matrix Spike Dup

Laboratory: Empirical Laboratories, LLC SDG: 1110003

Client: Tetra Tech NUS, Inc. (T010) Project: Navy Fuel Depot CTO JM46

Matrix: Laboratory ID: 1J04002-MSD2 File ID: 018R1801.D

Sampled: Prepared: Analyzed: 10/12/11 18:35

Solids: Preparation: EXT_3510 Dilution:

Batch: 1J04002 Sequence: 1J28715 Calibration: 1286006 Instrument: GL-ECD3

CAS NO.	COMPOUND	CONC. (ug/L)	DL	LOD	LOQ	Q
12674-11-2	Aroclor-1016 [2C]	0.5939	0.120	0.250	0.500	P, X
11104-28-2	Aroclor-1221 [2C]		0.120	0.250	0.500	U
11141-16-5	Aroclor-1232 [2C]		0.120	0.250	0.500	U
53469-21-9	Aroclor-1242 [2C]		0.120	0.250	0.500	U
12672-29-6	Aroclor-1248 [2C]		0.120	0.250	0.500	U
11097-69-1	Aroclor-1254 [2C]		0.120	0.250	0.500	X U
11096-82-5	Aroclor-1260 [2C]	0.7203	0.120	0.250	0.500	P, X

SYSTEM MONITORING COMPOUND	ADDED (ug/L)	CONC (ug/L)	% REC	QC LIMITS	Q
Tetrachloro-m-xylene [2C]	0.5000	0.1230	24.6	25 - 140	
Decachlorobiphenyl [2C]	0.5000	0.05097	10.2	40 - 135	Y

ANALYSIS DATA SHEET

LCS

Laboratory: Empirical Laboratories, LLC SDG: 1110003

Client: Tetra Tech NUS, Inc. (T010) Project: Navy Fuel Depot CTO JM46

Matrix: Laboratory ID: 1J13003-BS3 File ID: 004F0401.D

Sampled: Prepared: Analyzed: 10/19/11 10:01

Solids: Preparation: EXT_3510 Dilution:

Batch: 1J13003 Sequence: 1J29602 Calibration: 1286006 Instrument: GL-ECD3

CAS NO.	COMPOUND	CONC. (ug/L)	DL	LOD	LOQ	Q
12674-11-2	Aroclor-1016	1.097	0.120	0.250	0.500	P
11104-28-2	Aroclor-1221		0.120	0.250	0.500	U
11141-16-5	Aroclor-1232		0.120	0.250	0.500	U
53469-21-9	Aroclor-1242		0.120	0.250	0.500	U
12672-29-6	Aroclor-1248		0.120	0.250	0.500	U
11097-69-1	Aroclor-1254		0.120	0.250	0.500	U
11096-82-5	Aroclor-1260	4.017	0.120	0.250	0.500	P

SYSTEM MONITORING COMPOUND	ADDED (ug/L)	CONC (ug/L)	% REC	QC LIMITS	Q
Tetrachloro-m-xylene	0.5000	0.3627	72.5	25 - 140	
Decachlorobiphenyl	0.5000	0.2673	53.5	40 - 135	

ANALYSIS DATA SHEET

LCS

Laboratory: Empirical Laboratories, LLC
SDG: 1110003
Client: Tetra Tech NUS, Inc. (T010)
Project: Navy Fuel Depot CTO JM46
Matrix:
Laboratory ID: 1J13003-BS3
File ID: 004R0401.D
Sampled:
Prepared:
Analyzed: 10/19/11 10:01
Solids:
Preparation: EXT_3510
Dilution:
Batch: 1J13003
Sequence: 1J29602
Calibration: 1286006
Instrument: GL-ECD3

CAS NO.	COMPOUND	CONC. (ug/L)	DL	LOD	LOQ	Q
12674-11-2	Aroclor-1016 [2C]	2.755	0.120	0.250	0.500	P, X
11104-28-2	Aroclor-1221 [2C]		0.120	0.250	0.500	U
11141-16-5	Aroclor-1232 [2C]		0.120	0.250	0.500	U
53469-21-9	Aroclor-1242 [2C]		0.120	0.250	0.500	U
12672-29-6	Aroclor-1248 [2C]		0.120	0.250	0.500	U
11097-69-1	Aroclor-1254 [2C]		0.120	0.250	0.500	U
11096-82-5	Aroclor-1260 [2C]	10.73	0.120	0.250	0.500	P, X

SYSTEM MONITORING COMPOUND	ADDED (ug/L)	CONC (ug/L)	% REC	QC LIMITS	Q
Tetrachloro-m-xylene [2C]	0.5000	0.6367	127	25 - 140	X
Decachlorobiphenyl [2C]	0.5000	0.4931	98.6	40 - 135	X

FORM X
IDENTIFICATION SUMMARY
FOR SINGLE COMPONENT ANALYTES

LCS

Lab Name: Empirical Laboratories, LLC

Lab Sample ID: 1J04002-BS2 Date(s) Analyzed: 10/12/2011 10/12/2011

Instrument ID (1): GL-ECD3 Instrument ID (2): GL-ECD3

GC Column (1): ID: (mm) GC Column (2): ID: (mm)

ANALYTE	COL	RT	RT WINDOW		CONCENTRATION	%D
			FROM	TO		
Aroclor-1016	1	7.70	7.67	7.73	1.069	
	2	6.99	6.96	7.02	1.783	50
Aroclor-1260	1	12.07	12.04	12.10	3.929	
	2	9.83	9.80	9.86	6.871	55

FORM X
IDENTIFICATION SUMMARY
FOR SINGLE COMPONENT ANALYTES

Matrix Spike

Lab Name: Empirical Laboratories, LLC

Lab Sample ID: 1J04002-MS2

Date(s) Analyzed: 10/12/2011 10/12/2011

Instrument ID (1): GL-ECD3

Instrument ID (2): GL-ECD3

GC Column (1): ID: (mm)

GC Column (2): ID: (mm)

ANALYTE	COL	RT	RT WINDOW		CONCENTRATION	%D
			FROM	TO		
Aroclor-1016	1	7.67	7.67	7.73	0.8897	
	2	6.99	6.96	7.02	0.8907	0
Aroclor-1260	1	12.07	12.04	12.10	1.157	
	2	9.83	9.80	9.86	0.6988	49

FORM X
IDENTIFICATION SUMMARY
FOR SINGLE COMPONENT ANALYTES

Matrix Spike Dup

Lab Name: Empirical Laboratories, LLC

Lab Sample ID: 1J04002-MSD2 Date(s) Analyzed: 10/12/2011 10/12/2011

Instrument ID (1): GL-ECD3 Instrument ID (2): GL-ECD3

GC Column (1): ID: (mm) GC Column (2): ID: (mm)

ANALYTE	COL	RT	RT WINDOW		CONCENTRATION	%D
			FROM	TO		
Aroclor-1016	1	7.68	7.67	7.73	0.9376	
	2	6.99	6.96	7.02	0.5939	45
Aroclor-1260	1	12.07	12.04	12.10	1.083	
	2	9.83	9.80	9.86	0.7203	40

FORM X
IDENTIFICATION SUMMARY
FOR SINGLE COMPONENT ANALYTES

LCS

Lab Name: Empirical Laboratories, LLC

Lab Sample ID: 1J13003-BS3 Date(s) Analyzed: 10/19/2011 10/19/2011

Instrument ID (1): GL-ECD3 Instrument ID (2): GL-ECD3

GC Column (1): ID: (mm) GC Column (2): ID: (mm)

ANALYTE	COL	RT	RT WINDOW		CONCENTRATION	%D
			FROM	TO		
Aroclor-1016	1	7.62	7.67	7.73	1.097	
	2	6.93	6.96	7.02	2.755	86
Aroclor-1260	1	11.98	12.04	12.10	4.017	
	2	9.76	9.80	9.86	10.73	91

Data for SW8082A
Supporting Raw Data / Logs

Sequence: C:\HPCHEM\ECD3\SEQUENCE\101011.s\ECD.3\HP. F/F\8081_82 PG 401

EM210

Sequence Table (Front/BACK Injector):

Quantification Part:

Line	Location	SampleName	SampleAmount	ISTDAmt	Multiplier	Dilution
1	Vial 1	Pest Primer				
2	Vial 2	SEQ-PEM1 ID#				11I0420
3	Vial 3	SEQ-CCV1 (A/B)				11I0419
4	Vial 4	SEQ-CCV2 (Chlor)				11I0754
5	Vial 5	SEQ-CCV3 (Tox)				11I0795
6	Vial 6	SEQ-CCV4 (1660)				11I0557
7	Vial 7	SEQ-CCV5 (1254)				11J0041
8	Vial 8	1I29017-BLK1				
9	Vial 9	1I29017-BS1				
10	Vial 10	1109149-02 1x				
11	Vial 11	1I29017-MS1				
12	Vial 12	1I29017-MSD1				
13	Vial 13	1I29017-MS2				
14	Vial 14	1109149-03				
15	Vial 15	1109149-05				
16	Vial 16	1109149-06				
17	Vial 17	SEQ-CCV6 (A/B)				
18	Vial 18	SEQ-CCV7 (Chlor)				
19	Vial 19	SEQ-CCV8 (Tox)				
20	Vial 20	SEQ-CCV9 (1660)				
21	Vial 21	SEQ-CCVA (1254)				
22	Vial 22	SEQ-CAL6 1660				11J0019
23	Vial 23	SEQ-CAL5				11J0018
24	Vial 24	SEQ-CAL4				11J0017
25	Vial 25	SEQ-CAL3				11J0016
26	Vial 26	SEQ-CAL2				11J0015
27	Vial 27	SEQ-CAL1				11J0014
28	Vial 28	SEQ-ICV1				11I0051
29	Vial 29	SEQ-CAL7 1254				11J0045
30	Vial 30	SEQ-CAL8				11J0044
31	Vial 31	SEQ-CAL9				11J0043
32	Vial 32	SEQ-CALA				11J0042
33	Vial 33	SEQ-CALB				11J0041
34	Vial 34	SEQ-CALC				11J0040
35	Vial 35	SEQ-ICV2				11G0018
36	Vial 36	SEQ-CCVB (1660)				11I0557
37	Vial 37	SEQ-CCVC (1254)				11J0041
38	Vial 38	1109182-19;CuA 1x				
39	Vial 39	1109182-20;CuA				
40	Vial 40	1109182-21;CuA				
41	Vial 41	1109182-22;CuA				
42	Vial 42	1109182-23;CuA				
43	Vial 43	SEQ-CCVD (1660)				
44	Vial 44	SEQ-CCVE (1254)				
45	Vial 45	1I29003-BLK1,CuA				
46	Vial 46	1I29003-BS1;CuA				
47	Vial 47	1109180-24;CuA 1x				
48	Vial 48	1109180-25;CuA				
49	Vial 49	1109180-26;CuA				
50	Vial 50	1109181-01;CuA				
51	Vial 51	1109181-02;CuA				
52	Vial 52	1109181-03;CuA				
53	Vial 53	1109181-04;CuA				
54	Vial 54	1109181-05;CuA				
55	Vial 55	1109181-06;CuA				
56	Vial 56	1109181-07;CuA				
57	Vial 57	1109181-08;CuA				
58	Vial 58	SEQ-CCVF (1660)				
59	Vial 59	SEQ-CCVG (1254)				

@ All lines crossed out can be found with a different set of data. This set includes only the 1660 and 1254 Aroclor calibrations.

SP

10/12/11

Sequence: C:\HPCHEM\ECD3\SEQUENCE\101011.S \ECD.3\HP.E/F\8081_82 PG 402 Em210

Line	Location	SampleName	SampleAmount	ISTDAmt	Multiplier	Dilution
60	Vial 60	1109181-09;CuA				
61	Vial 61	1109181-10;CuA				
62	Vial 62	1109182-01;CuA				
63	Vial 63	1109182-02;CuA				
64	Vial 64	1109182-03;CuA				
65	Vial 65	1I29003-MS1;CuA				
66	Vial 66	1I29003-MSD1;CuA				
67	Vial 67	1109182-04;CuA				
68	Vial 68	1109182-05;CuA				
69	Vial 69	1109182-06;CuA				
70	Vial 70	1109182-07;CuA				
71	Vial 71	SEQ-CCVH(1660)				
72	Vial 72	SEQ-CCVI(1254)				

~~Sequence Table (Back Injector):~~

~~No entries -- empty table!~~

SP

Laboratory Name

SW-846 METHODS 8081A/8082 10/12/11

10.12.11

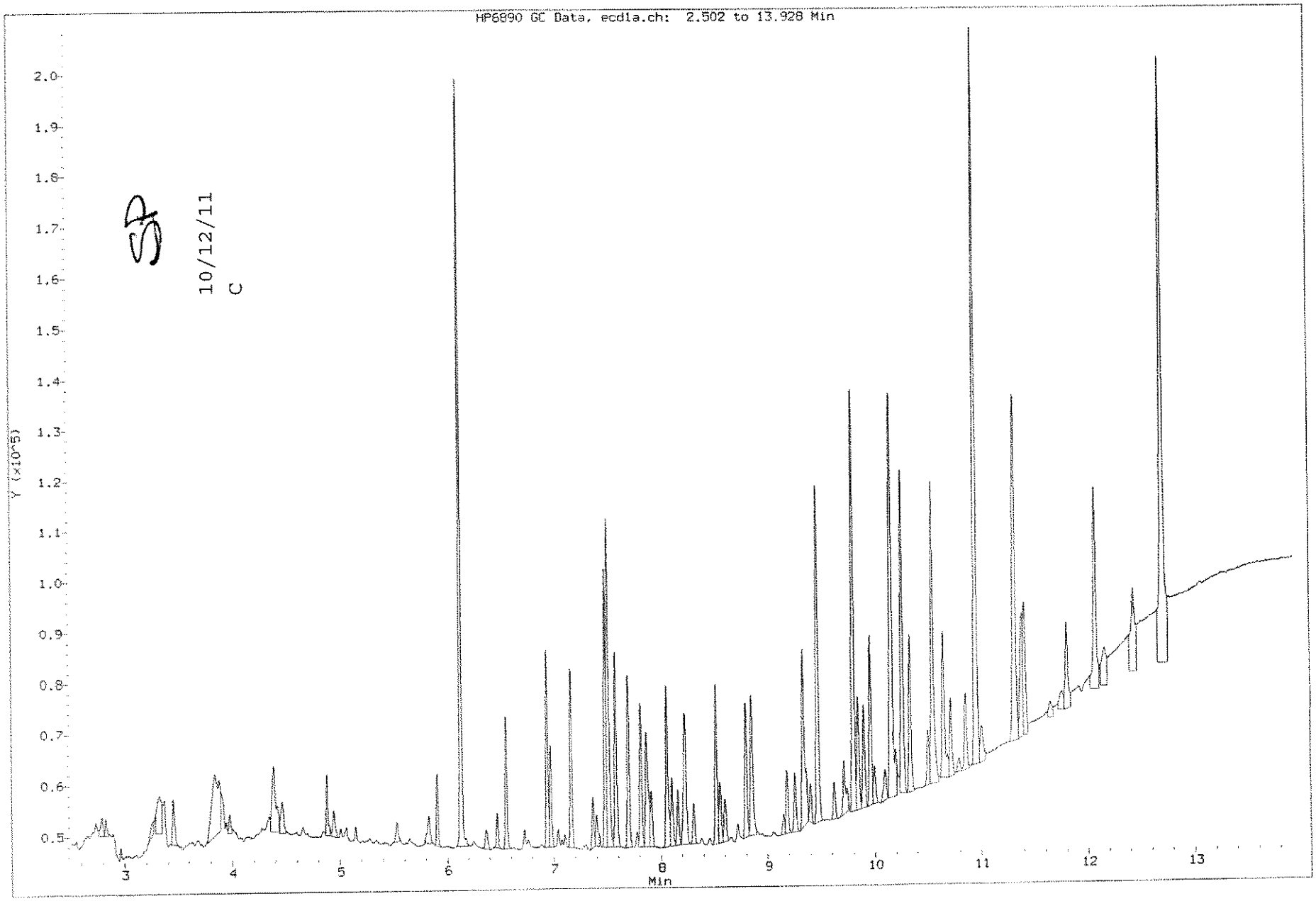
Data file : \\ELABNSH05\TARGET\chem\ecd3.i\101011.b\022F2201.D
Lab Smp Id: SEQ-CAL6
Inj Date : 10-OCT-2011 17:52
Operator : EM Inst ID: ecd3.i
Smp Info : SEQ-CAL6
Misc Info : ;;;;;;AR1660.sub
Comment :
Method : \\ELABNSH05\TARGET\chem\ecd3.i\101011.b\8081_82F.m
Meth Date : 11-Oct-2011 23:14 spatrona Quant Type: ESTD
Cal Date : 10-AUG-2011 19:35 Cal File: 002F0101.D
Als bottle: 22 Calibration Sample, Level: 6
Dil Factor: 1.00000
Integrator: Falcon Compound Sublist: AR1660.sub
Target Version: 4.04 Sample Matrix: None
Processing Host: TARGET14_VM

RT	EXP RT	DLT RT	RESPONSE	AMOUNTS CAL-AMT (ng/mL)	ON-COL (ng/mL)	TARGET RANGE	RATIO
29 PCB-1016					CAS #: 12674-11-2		
7.506	7.506	(0.000)	95682	50.0000	55.66	80.00- 120.00	100.00(M)
6.939	6.939	(0.000)	45615	50.0000	54.23	38.14- 57.21	47.67
7.163	7.163	(0.000)	43650	50.0000	53.68	36.50- 54.74	45.62
7.479	7.479	(0.000)	69545	50.0000	56.42	58.15- 87.22	72.68
7.578	7.578	(0.000)	55989			46.81- 70.22	58.52
7.696	7.696	(0.000)	44604	50.0000	53.98	37.29- 55.94	46.62
		Average of Peak Amounts =			54.79		
35 PCB-1260					CAS #: 11096-82-5		
10.953	10.953	(0.000)	@209335	50.0000	50.98	80.00- 120.00	100.00(M)
9.466	9.466	(0.000)	94123			35.97- 53.96	44.96
9.799	9.799	(0.000)	117429	50.0000	52.91	44.88- 67.32	56.10
10.158	10.158	(0.000)	125453	50.0000	51.38	47.94- 71.92	59.93
10.261	10.261	(0.000)	91428	50.0000	52.07	34.94- 52.41	43.68
10.549	10.549	(0.000)	97047			37.09- 55.63	46.36
11.319	11.319	(0.000)	129152			49.36- 74.04	61.70
12.071	12.071	(0.000)	56225	50.0000	52.04	21.49- 32.23	26.86
		Average of Peak Amounts =			51.88		

QC Flag Legend

M - Compound response manually integrated.

Data File: \\ELABNSH05\TARGET\chem\ecd3.i\101011.b\022F2201.D
Injection Date: 10-OCT-2011 17:52
Instrument: ecd3.i
Client Sample ID:



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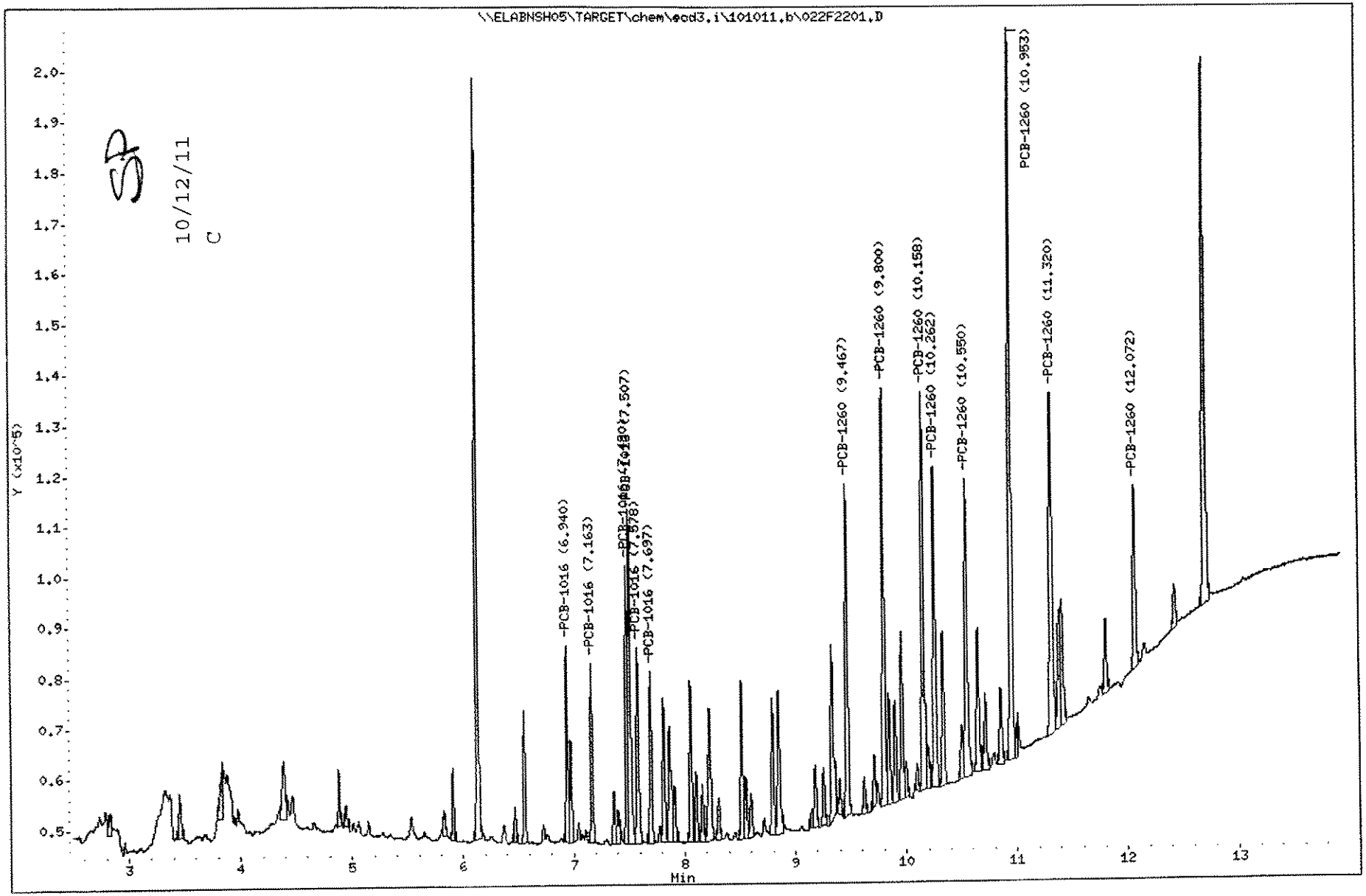
1110003

Data File: \\ELABNSH05\TARGET\chem\ecd3.i\101011.b\022F2201.D
Date : 10-OCT-2011 17:52
Client ID:
Sample Info: SEQ-CAL6

Column phase: ZB HR-1

Instrument: ecd3.i

Operator: EM
Column diameter: 0.32



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1110003

SP

Laboratory Name 10/12/11

J.H. 10.12.11

SW-846 METHODS 8081A/8082

Data file : \\ELABNSH05\TARGET\chem\ecd3.i\101011.b\023F2301.D
Lab Smp Id: SEQ-CAL5
Inj Date : 10-OCT-2011 18:11
Operator : EM
Inst ID: ecd3.i
Smp Info : SEQ-CAL5
Misc Info : ;;;;;;AR1660.sub
Comment :
Method : \\ELABNSH05\TARGET\chem\ecd3.i\101011.b\8081_82F.m
Meth Date : 11-Oct-2011 23:15 spatrona
Quant Type: ESTD
Cal Date : 10-AUG-2011 19:35
Cal File: 002F0101.D
Als bottle: 23
Calibration Sample, Level: 5
Dil Factor: 1.00000
Integrator: Falcon
Compound Sublist: AR1660.sub
Target Version: 4.04
Sample Matrix: None
Processing Host: TARGET14_VM

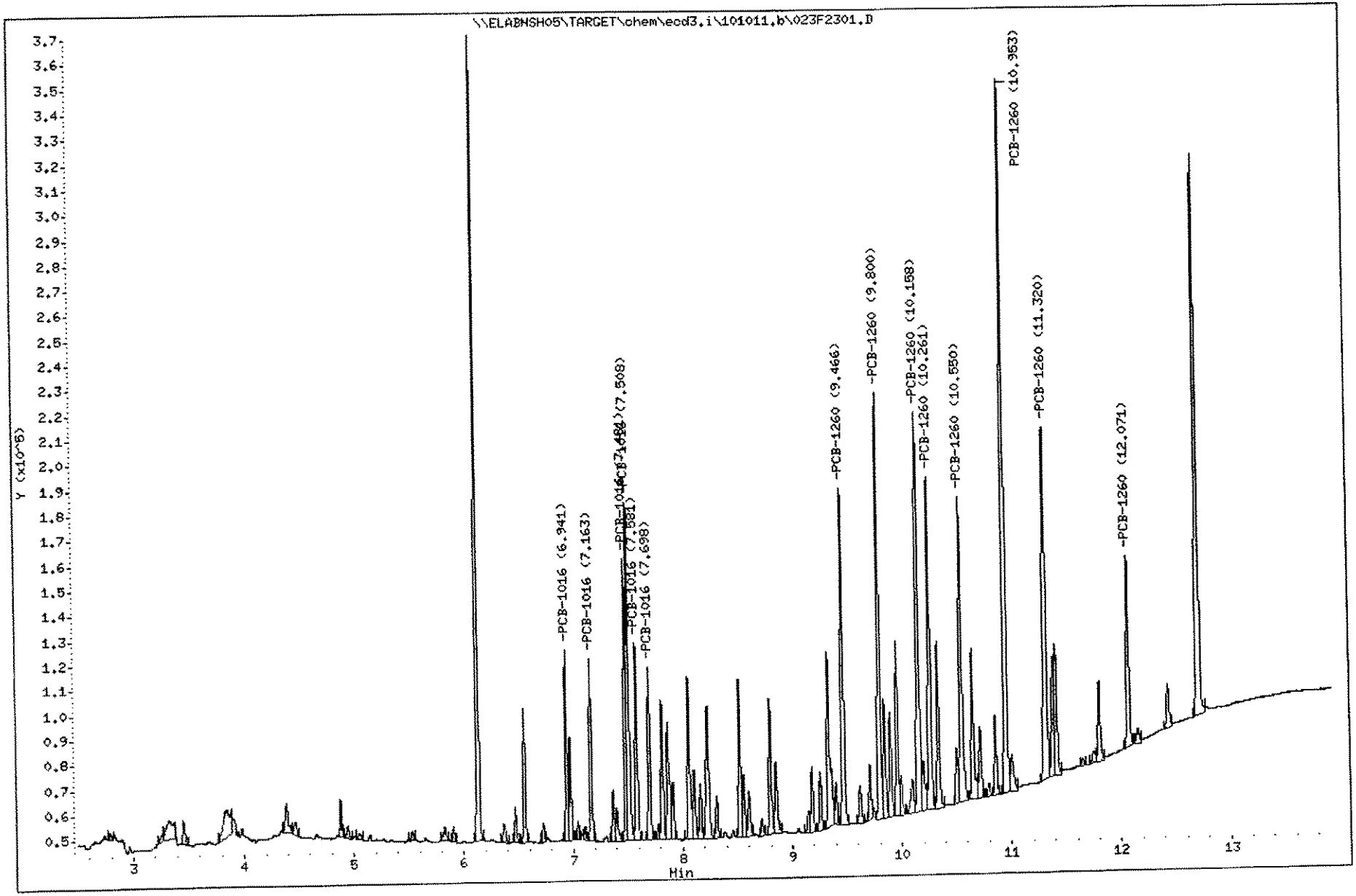
RT	EXP RT	DLT RT	RESPONSE	AMOUNTS CAL-AMT (ng/mL)	ON-COL (ng/mL)	TARGET RANGE	RATIO
29 PCB-1016					CAS #: 12674-11-2		
7.508	7.508	(0.000)	190385	100.000 X	110.7	80.00- 120.00	100.00
6.941	6.941	(0.000)	91671	100.000	109.0	38.52- 57.78	48.15
7.163	7.163	(0.000)	87338	100.000	107.4	36.70- 55.05	45.87
7.481	7.481	(0.000)	130902	100.000	106.2	55.01- 82.51	68.76
7.581	7.581	(0.000)	110489			46.43- 69.64	58.03
7.698	7.698	(0.000)	@ 90189	100.000	109.1	37.90- 56.85	47.37
		Average of Peak Amounts =			108.5		
35 PCB-1260					CAS #: 11096-82-5		
10.953	10.953	(0.000)	435365	100.000	106.0	80.00- 120.00	100.00
9.466	9.466	(0.000)	195022			35.84- 53.75	44.80
9.799	9.799	(0.000)	241688	100.000	108.9	44.41- 66.62	55.51
10.158	10.158	(0.000)	265237	100.000	108.6	48.74- 73.11	60.92
10.261	10.261	(0.000)	193688	100.000	110.3	35.59- 53.39	44.49
10.549	10.549	(0.000)	200029			36.76- 55.13	45.95
11.319	11.319	(0.000)	265479			48.78- 73.17	60.98
12.071	12.071	(0.000)	117037	100.000	108.3	21.51- 32.26	26.88
		Average of Peak Amounts =			108.4		

Data File: \\ELABNSH05\TARGET\chem\ecd3.i\101011.b\023F2301.D
Date : 10-OCT-2011 18:11
Client ID:
Sample Info: SEQ-CAL5

Column phase: ZB MR-1

Instrument: ecd3.i

Operator: EH
Column diameter: 0.32



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Laboratory Name 10/12/11

J.H. 10.12.11

SW-846 METHODS 8081A/8082

Data file : \\ELABNSH05\TARGET\chem\ecd3.i\101011.b\024F2401.D
Lab Smp Id: SEQ-CAL4
Inj Date : 10-OCT-2011 18:29
Operator : EM
Inst ID: ecd3.i
Smp Info : SEQ-CAL4
Misc Info : ;;;;;;AR1660.sub
Comment :
Method : \\ELABNSH05\TARGET\chem\ecd3.i\101011.b\8081_82F.m
Meth Date : 11-Oct-2011 23:15 spatrona
Quant Type: ESTD
Cal Date : 10-AUG-2011 19:35
Cal File: 002F0101.D
Als bottle: 24
Calibration Sample, Level: 4
Dil Factor: 1.00000
Integrator: Falcon
Compound Sublist: AR1660.sub
Target Version: 4.04
Sample Matrix: None
Processing Host: TARGET14_VM

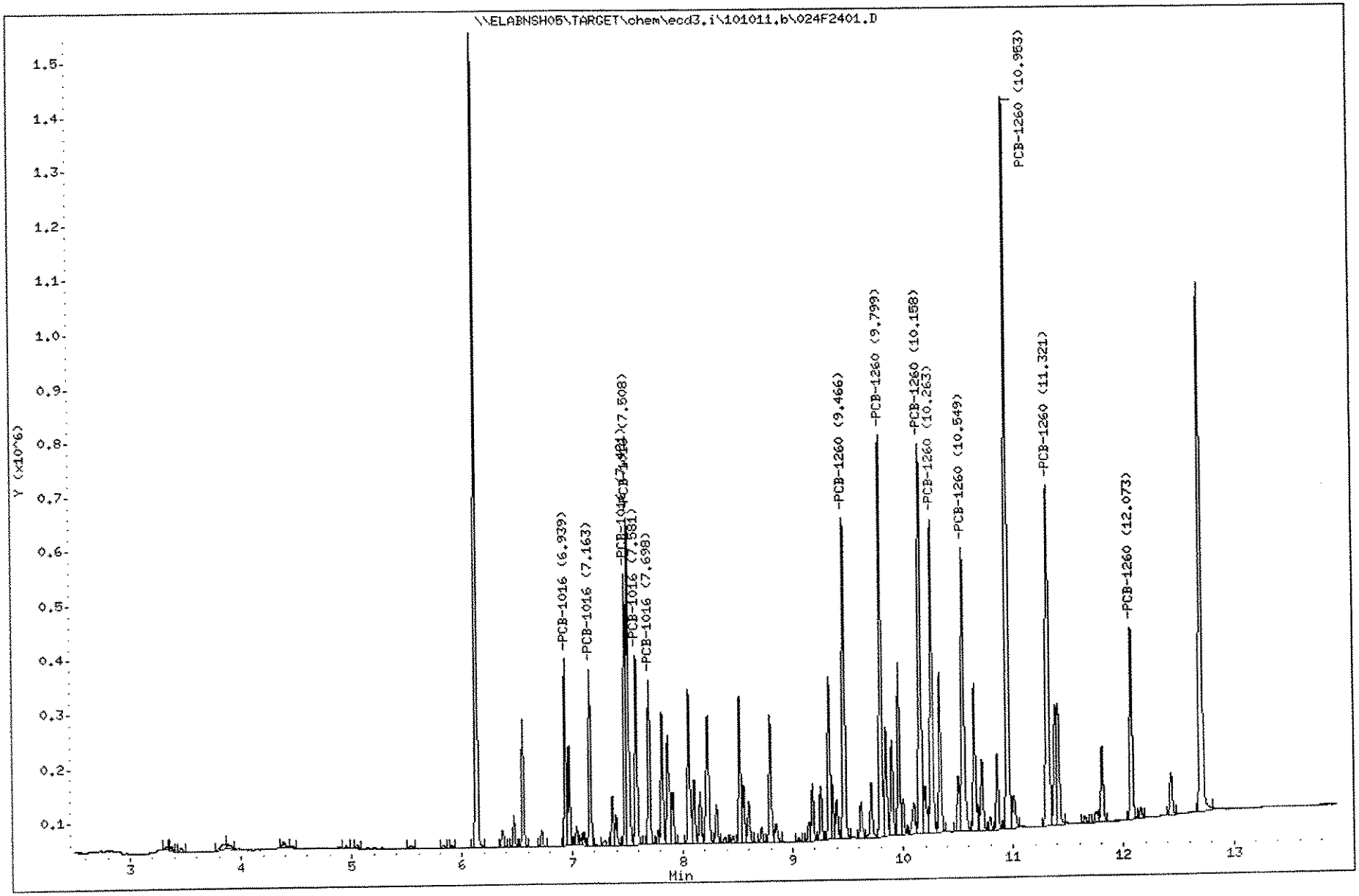
RT	EXP RT	DLT RT	RESPONSE	AMOUNTS CAL-AMT (ng/mL)	ON-COL (ng/mL)	TARGET RANGE	RATIO
29 PCB-1016					CAS #: 12674-11-2		
7.507	7.507	(0.000)	822136	500.000 X	478.2	80.00- 120.00	100.00
6.939	6.939	(0.000)	405550	500.000	482.2	39.46- 59.19	49.33
7.162	7.162	(0.000)	392371	500.000	482.5	38.18- 57.27	47.73
7.481	7.481	(0.000)	@ 585658	500.000	475.1	56.99- 85.48	71.24
7.581	7.581	(0.000)	480703			46.78- 70.16	58.47
7.697	7.697	(0.000)	397675	500.000	481.2	38.70- 58.05	48.37
		Average of Peak Amounts =			479.9		
35 PCB-1260					CAS #: 11096-82-5		
10.952	10.952	(0.000)	1975174	500.000	481.0	80.00- 120.00	100.00
9.466	9.466	(0.000)	847147			34.31- 51.47	42.89
9.799	9.799	(0.000)	1066406	500.000	480.5	43.19- 64.79	53.99
10.157	10.157	(0.000)	1176646	500.000	481.9	47.66- 71.49	59.57
10.262	10.262	(0.000)	846471	500.000	482.1	34.28- 51.43	42.86
10.549	10.549	(0.000)	887534			35.95- 53.92	44.93
11.321	11.321	(0.000)	1190753			48.23- 72.34	60.29
12.072	12.072	(0.000)	524085	500.000	485.1	21.23- 31.84	26.53
		Average of Peak Amounts =			482.1		

Data File: \\ELABNSH05\TARGET\chem\ecd3.i\101011.b\024F2401.D
Date : 10-OCT-2011 18:29
Client ID:
Sample Info: SEQ-CAL4

Instrument: ecd3.i

Operator: EM
Column diameter: 0.32

Column phase: ZB MR-1



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Laboratory Name 10/12/11

SW-846 METHODS 8081A/8082

JH. 10.12.11

Data file : \\ELABNSH05\TARGET\chem\ecd3.i\101011.b\025F2501.D
Lab Smp Id: SEQ-CAL3
Inj Date : 10-OCT-2011 18:48
Operator : EM Inst ID: ecd3.i
Smp Info : SEQ-CAL3
Misc Info : ;;;;;;AR1660.sub
Comment :
Method : \\ELABNSH05\TARGET\chem\ecd3.i\101011.b\8081_82F.m
Meth Date : 11-Oct-2011 23:15 spatrona Quant Type: ESTD
Cal Date : 10-AUG-2011 19:35 Cal File: 002F0101.D
Als bottle: 25 Calibration Sample, Level: 3
Dil Factor: 1.00000
Integrator: Falcon Compound Sublist: AR1660.sub
Target Version: 4.04 Sample Matrix: None
Processing Host: TARGET14_VM

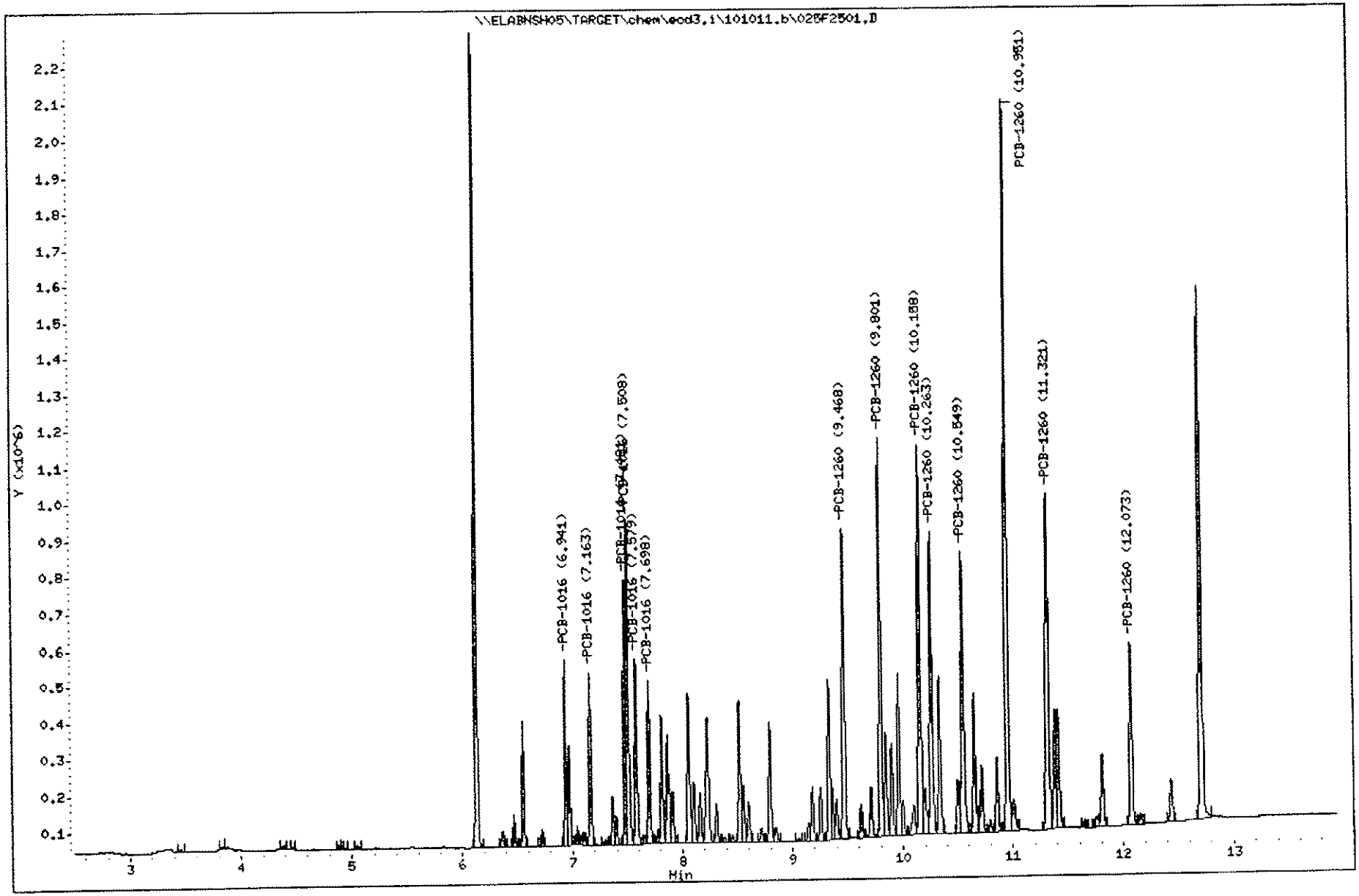
RT	EXP RT	DLT RT	RESPONSE	AMOUNTS CAL-AMT (ng/mL)	ON-COL (ng/mL)	TARGET RANGE	RATIO
29 PCB-1016					CAS #: 12674-11-2		
7.507	7.507	(0.000)	1209678	750.000 X	703.6	80.00- 120.00	100.00
6.940	6.940	(0.000)	594589	750.000	706.9	39.32- 58.98	49.15
7.162	7.162	(0.000)	@ 576573	750.000	709.0	38.13- 57.20	47.66
7.480	7.480	(0.000)	856186	750.000	694.6	56.62- 84.93	70.78
7.579	7.579	(0.000)	702910			46.49- 69.73	58.11
7.697	7.697	(0.000)	582297	750.000	704.7	38.51- 57.76	48.14
		Average of Peak Amounts =			703.8		
35 PCB-1260					CAS #: 11096-82-5		
10.950	10.950	(0.000)	2891064	750.000	704.0	80.00- 120.00	100.00
9.467	9.467	(0.000)	1215606			33.64- 50.46	42.05
9.800	9.800	(0.000)	1543321	750.000	695.3	42.71- 64.06	53.38
10.157	10.157	(0.000)	1708795	750.000	699.9	47.28- 70.93	59.11
10.262	10.262	(0.000)	1220272	750.000	695.0	33.77- 50.65	42.21
10.549	10.549	(0.000)	1281418			35.46- 53.19	44.32
11.320	11.320	(0.000)	1730764			47.89- 71.84	59.87
12.072	12.072	(0.000)	763737	750.000	706.9	21.13- 31.70	26.42
		Average of Peak Amounts =			700.2		

Data File: \\ELABNSHO5\TARGET\chem\ecd3.i\101011.b\025F2501.D
Date : 10-OCT-2011 18:48
Client ID:
Sample Info: SEQ-CAL3

Column phase: ZB MR-1

Instrument: ecd3.i

Operator: EM
Column diameter: 0.32



SP

Laboratory Name 10/12/11

10.12.11

SW-846 METHODS 8081A/8082

Data file : \\ELABNSH05\TARGET\chem\ecd3.i\101011.b\026F2601.D
Lab Smp Id: SEQ-CAL2
Inj Date : 10-OCT-2011 19:07
Operator : EM Inst ID: ecd3.i
Smp Info : SEQ-CAL2
Misc Info : ;;;;;;AR1660.sub
Comment :
Method : \\ELABNSH05\TARGET\chem\ecd3.i\101011.b\8081_82F.m
Meth Date : 11-Oct-2011 23:16 spatrona Quant Type: ESTD
Cal Date : 10-AUG-2011 19:35 Cal File: 002F0101.D
Als bottle: 26 Calibration Sample, Level: 2
Dil Factor: 1.00000
Integrator: Falcon Compound Sublist: AR1660.sub
Target Version: 4.04 Sample Matrix: None
Processing Host: TARGET14_VM

RT	EXP RT	DLT RT	RESPONSE	AMOUNTS CAL-AMT (ng/mL)	ON-COL (ng/mL)	TARGET RANGE	RATIO
29 PCB-1016					CAS #: 12674-11-2		
7.507	7.507	(0.000)	1660668	1000.00	966.0	80.00- 120.00	100.00
6.940	6.940	(0.000)	@821788	1000.00	977.1	39.59- 59.38	49.49
7.162	7.162	(0.000)	799052	1000.00	982.6	38.49- 57.74	48.12
7.480	7.480	(0.000)	1181036	1000.00	958.1	56.89- 85.34	71.12
7.579	7.579	(0.000)	966289			46.55- 69.82	58.19
7.695	7.695	(0.000)	806625	1000.00	976.1	38.86- 58.29	48.57
		Average of Peak Amounts =			972		
35 PCB-1260					CAS #: 11096-82-5		
10.952	10.952	(0.000)	4119257	1000.00	1003	80.00- 120.00	100.00
9.465	9.465	(0.000)	1704473			33.10- 49.65	41.38
9.799	9.799	(0.000)	2187683	1000.00	985.7	42.49- 63.73	53.11
10.157	10.157	(0.000)	2437691	1000.00	998.4	47.34- 71.01	59.18
10.260	10.260	(0.000)	1737872	1000.00	989.8	33.75- 50.63	42.19
10.549	10.549	(0.000)	1808891			35.13- 52.70	43.91
11.319	11.319	(0.000)	2461556			47.81- 71.71	59.76
12.070	12.070	(0.000)	1078800	1000.00	998.5	20.95- 31.43	26.19
		Average of Peak Amounts =			995.1		

Data File: \\ELABHSH05\TARGET\chem\ecd3.i\101011.b\026F2601.D

Page 2

Date : 10-OCT-2011 19:07

Client ID:

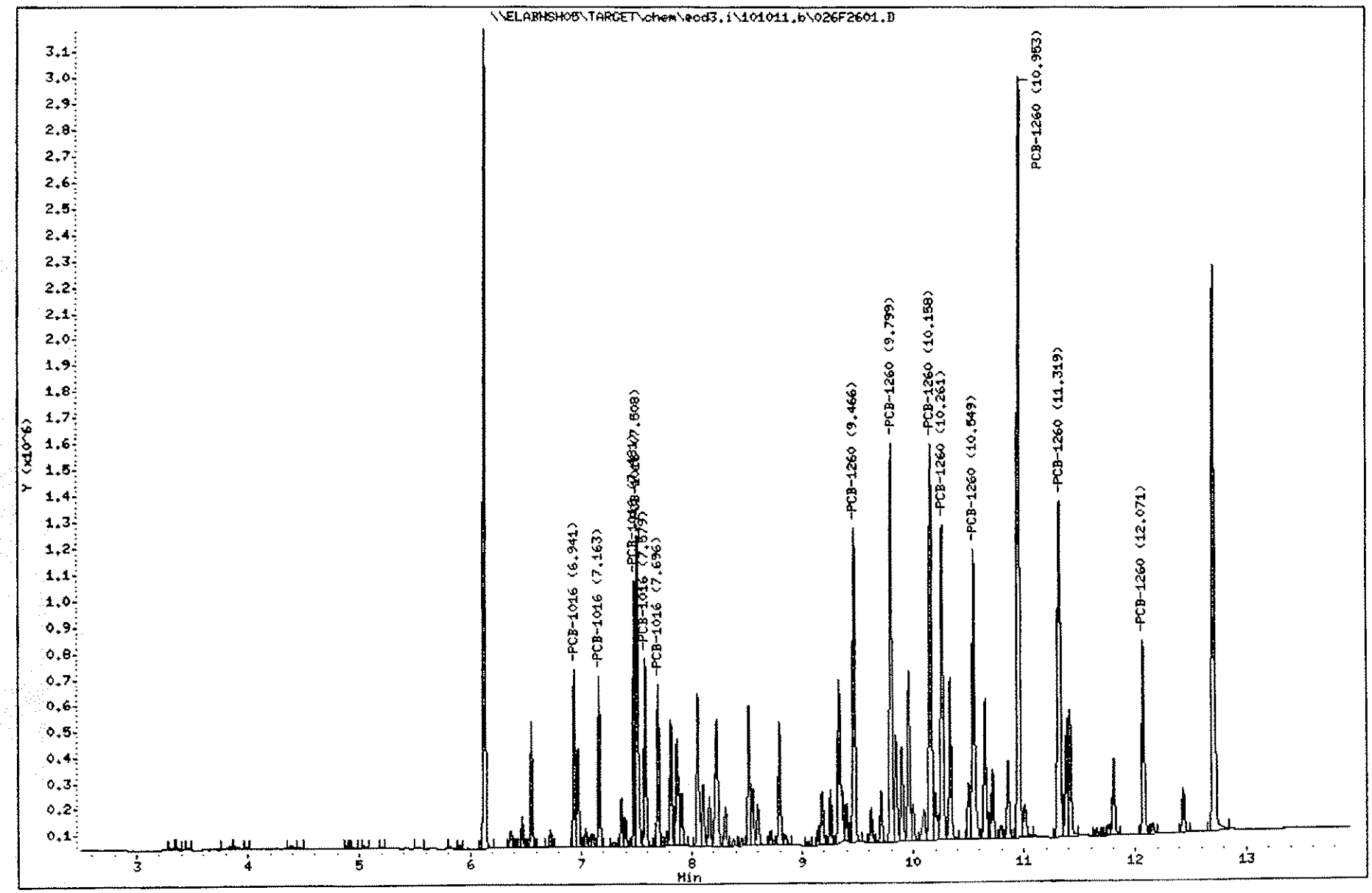
Instrument: ecd3.i

Sample Info: SEQ-CAL2

Operator: EH

Column phase: ZB MR-1

Column diameter: 0.32



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1110003

SP

Laboratory Name 10/12/11

JH. 10.12.11

SW-846 METHODS 8081A/8082

Data file : \\ELABNSH05\TARGET\chem\ecd3.i\101011.b\027F2701.D
Lab Smp Id: SEQ-CAL1
Inj Date : 10-OCT-2011 19:26
Operator : EM Inst ID: ecd3.i
Smp Info : SEQ-CAL1
Misc Info : ;;;;;;AR1660.sub
Comment :
Method : \\ELABNSH05\TARGET\chem\ecd3.i\101011.b\8081_82F.m
Meth Date : 11-Oct-2011 23:16 spatrona Quant Type: ESTD
Cal Date : 10-AUG-2011 19:35 Cal File: 002F0101.D
Als bottle: 27 Calibration Sample, Level: 1
Dil Factor: 1.00000
Integrator: Falcon Compound Sublist: AR1660.sub
Target Version: 4.04 Sample Matrix: None
Processing Host: TARGET14_VM

RT	EXP RT	DLT RT		RESPONSE	AMOUNTS CAL-AMT (ng/mL)	ON-COL (ng/mL)	TARGET RANGE	RATIO
29 PCB-1016						CAS #: 12674-11-2		
7.507	7.507	(0.000)	@	3948987	2500.00	2297	80.00- 120.00	100.00
6.940	6.940	(0.000)		1979412	2500.00	2353	40.10- 60.15	50.12
7.163	7.163	(0.000)		1950852	2500.00	2399	39.52- 59.28	49.40
7.480	7.480	(0.000)		3004787	2500.00	2438	60.87- 91.31	76.09
7.580	7.580	(0.000)		2350979			47.63- 71.44	59.53
7.697	7.697	(0.000)		1964222	2500.00	2377	39.79- 59.69	49.74
		Average of Peak Amounts =				2373		
35 PCB-1260						CAS #: 11096-82-5		
10.953	10.953	(0.000)		10436302	2500.00	2541	80.00- 120.00	100.00
9.467	9.467	(0.000)		4238082			32.49- 48.73	40.61
9.800	9.800	(0.000)		5433330	2500.00	2448	41.65- 62.47	52.06
10.158	10.158	(0.000)		6046241	2500.00	2476	46.35- 69.52	57.93
10.262	10.262	(0.000)		4279022	2500.00	2437	32.80- 49.20	41.00
10.548	10.548	(0.000)		4466568			34.24- 51.36	42.80
11.320	11.320	(0.000)		6068104			46.52- 69.77	58.14
12.072	12.072	(0.000)		2605867	2500.00	2412	19.98- 29.96	24.97
		Average of Peak Amounts =				2463		

Data File: \\ELABNSH05\TARGET\chem\ecd3.i\101011.b\027F2701.D

Date : 10-OCT-2011 19:26

Client ID:

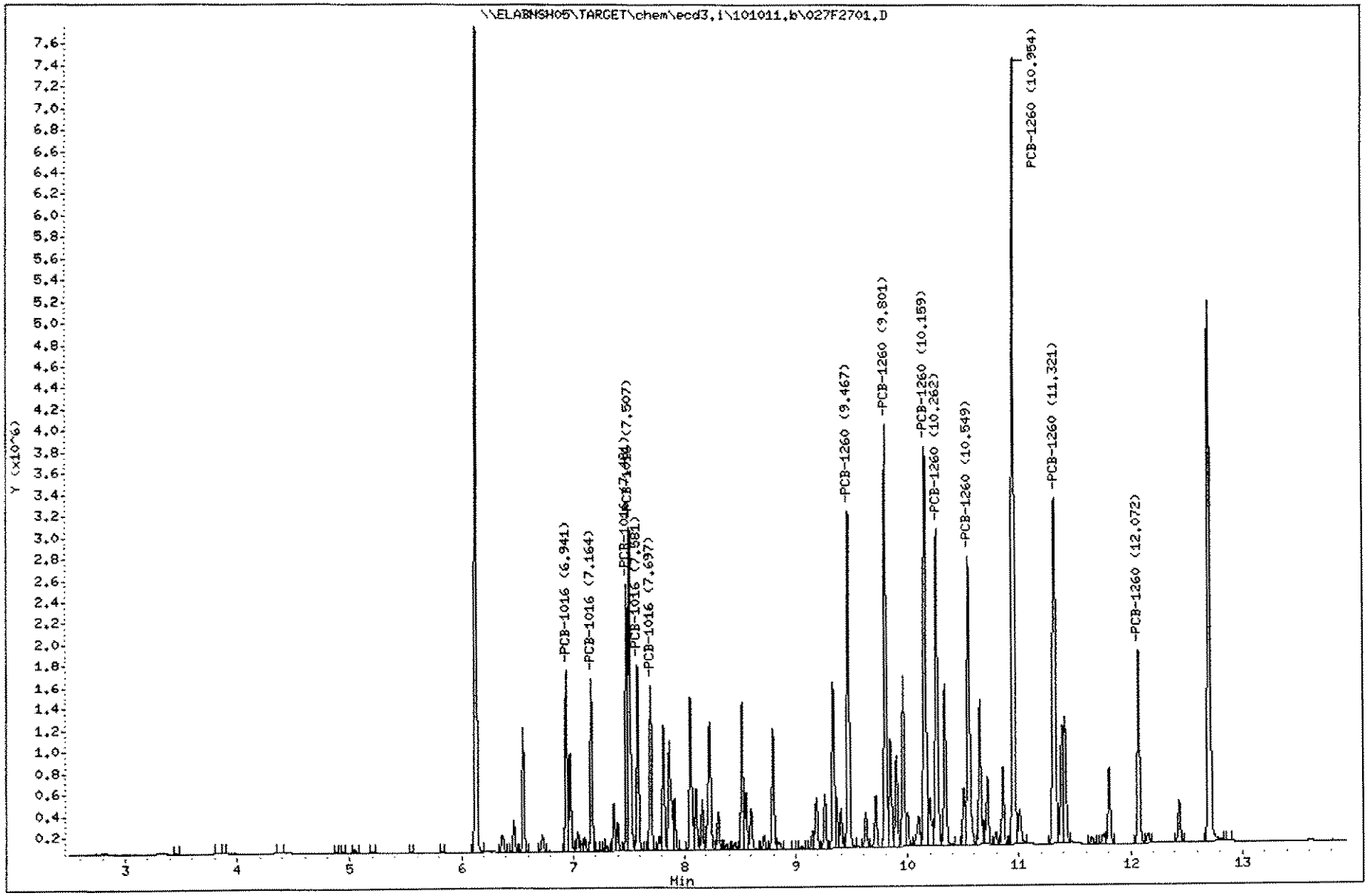
Instrument: ecd3.i

Sample Info: SEQ-CAL1

Operator: EM

Column phase: ZB MR-1

Column diameter: 0.32



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1110003

SP

Laboratory Name

SW-846 METHODS 8081A/8082

10/12/11

J.H. 10.12.11

Data file : \\ELABNSH05\TARGET\chem\ecd3.i\101011.b\028F2801.D
Lab Smp Id: SEQ-ICV1
Inj Date : 10-OCT-2011 19:45
Operator : EM Inst ID: ecd3.i
Smp Info : SEQ-ICV1
Misc Info : ;;;;;;AR1660.sub
Comment :
Method : \\ELABNSH05\TARGET\chem\ecd3.i\101011.b\8081_82F.m
Meth Date : 11-Oct-2011 23:16 spatrona Quant Type: ESTD
Cal Date : 10-AUG-2011 19:35 Cal File: 002F0101.D
Als bottle: 28 Continuing Calibration Sample
Dil Factor: 1.00000
Integrator: Falcon Compound Sublist: AR1660.sub
Target Version: 4.04 Sample Matrix: None
Processing Host: TARGET14_VM

RT	EXP RT	DLT RT	RESPONSE	AMOUNTS CAL-AMT (ng/mL)	AMOUNTS ON-COL (ng/mL)	TARGET RANGE	RATIO
29 PCB-1016					CAS #: 12674-11-2		
7.506	7.506	(0.000)	1657742	1000.00	964.3	80.00- 120.00	100.00
6.940	6.940	(0.000)	834003	1000.00	991.6	40.25- 60.37	50.31
7.163	7.163	(0.000)	810844	1000.00	997.1	39.13- 58.70	48.91
7.480	7.480	(0.000)	1236746	1000.00	1003	59.68- 89.53	74.60
7.580	7.580	(0.000)	982429			47.41- 71.12	59.26
7.696	7.696	(0.000)	809824	1000.00	980.0	39.08- 58.62	48.85
		Average of Peak Amounts =			987.3		
35 PCB-1260					CAS #: 11096-82-5		
10.951	10.951	(0.000)	3622208	1000.00 X	882.0	80.00- 120.00	100.00
9.466	9.466	(0.000)	1712748			37.83- 56.74	47.28
9.800	9.800	(0.000)	2171945	1000.00	978.6	47.97- 71.95	59.96
10.156	10.156	(0.000)	2550106	1000.00	1044	56.32- 84.48	70.40
10.261	10.261	(0.000)	1461029	1000.00	832.1	32.27- 48.40	40.34
10.548	10.548	(0.000)	1656357			36.58- 54.87	45.73
11.320	11.320	(0.000)	2190567			48.38- 72.57	60.48
12.071	12.071	(0.000)	842541	1000.00	779.8	18.61- 27.91	23.26
		Average of Peak Amounts =			903.4		

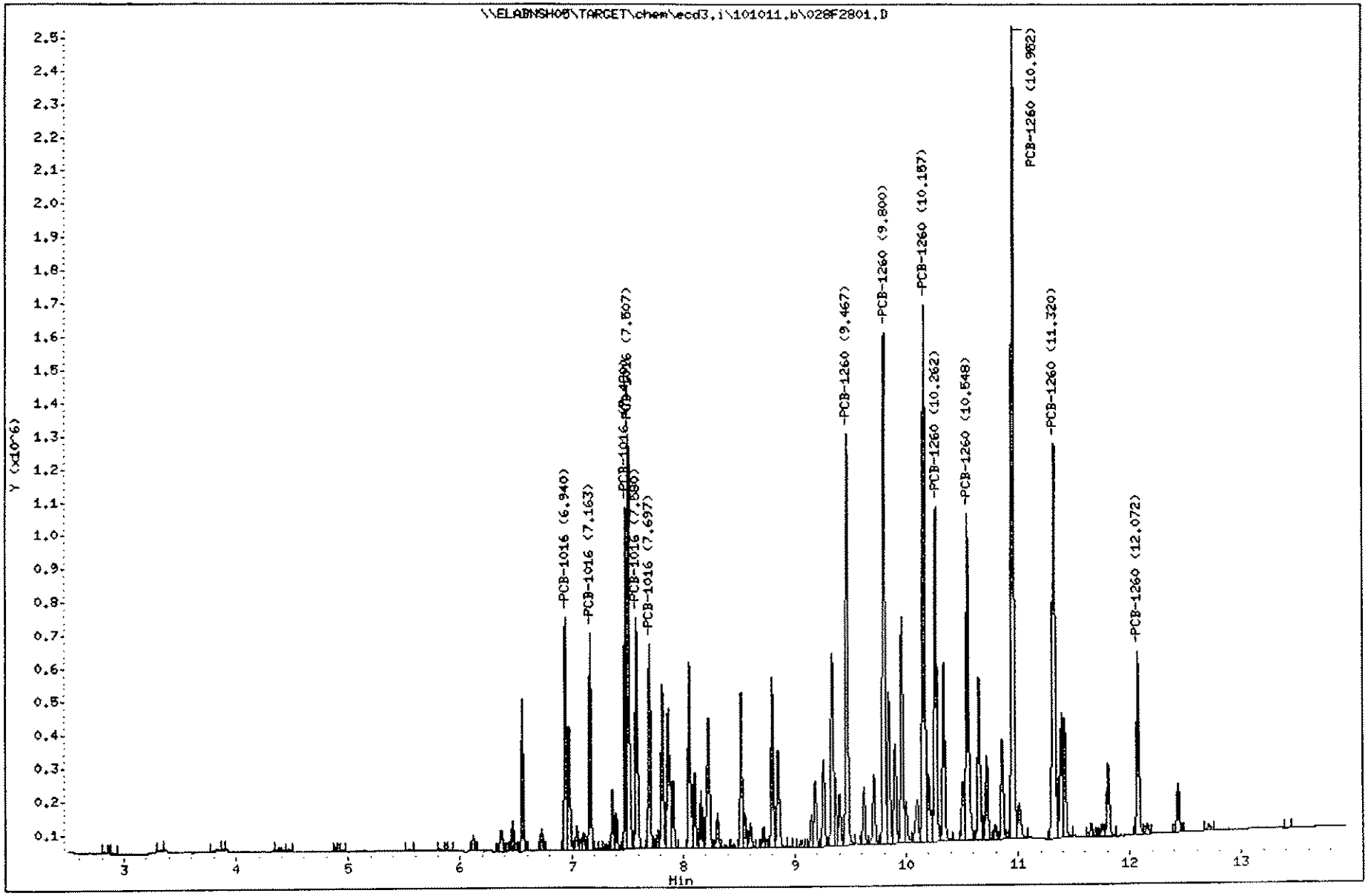
Data File: \\ELABNSHOB\TARGET\chem\ecd3.i\101011.b\028F2801.D
Date : 10-OCT-2011 19:45
Client ID:
Sample Info: SEQ-ICV1

Instrument: ecd3.i

Operator: EM

Column phase: ZB MR-1

Column diameter: 0.32



SP

Laboratory Name

10/12/11

SW-846 METHODS 8081A/8082

J.H. 10.12.11

Data file : \\ELABNSH05\TARGET\chem\ecd3.i\101011.b\022R2201.D
Lab Smp Id: SEQ-CAL6
Inj Date : 10-OCT-2011 17:52
Operator : EM
Smp Info : SEQ-CAL6
Misc Info : ;;;;;;AR1660.sub
Comment :
Method : \\ELABNSH05\TARGET\chem\ecd3.i\101011.b\8081_82R.m
Meth Date : 11-Oct-2011 23:15 spatrona
Cal Date : 10-AUG-2011 19:35
Als bottle: 22
Dil Factor: 1.00000
Integrator: Falcon
Target Version: 4.04
Processing Host: TARGET14_VM

Inst ID: ecd3.i

Quant Type: ESTD
Cal File: 002R0101.D
Calibration Sample, Level: 6

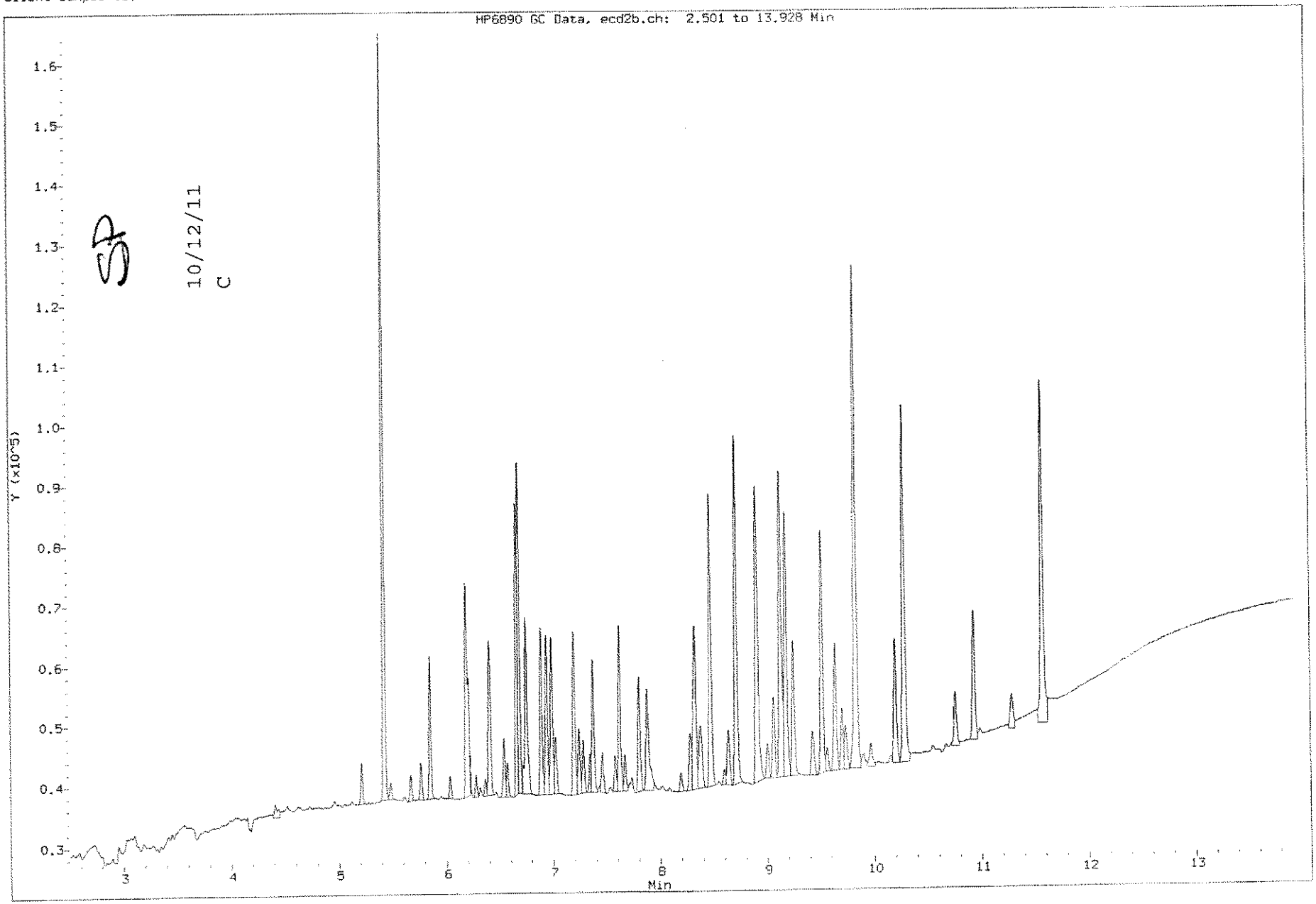
Compound Sublist: AR1660.sub
Sample Matrix: None

RT	EXP RT	DLT RT	RESPONSE	AMOUNTS CAL-AMT (ng/mL)	AMOUNTS ON-COL (ng/mL)	TARGET RANGE	RATIO
29 PCB-1016 [2C]					CAS #: 12674-11-2		
6.682	6.682	(0.000)	76113	50.0000	62.48	80.00- 120.00	100.00(M)
5.850	5.850	(0.000)	28564			30.02- 45.03	37.53
6.405	6.405	(0.000)	41983	50.0000	61.17	44.13- 66.19	55.16
6.660	6.660	(0.000)	58126	50.0000	61.09	61.09- 91.64	76.37
6.890	6.890	(0.000)	39571	50.0000	61.19	41.59- 62.39	51.99
6.989	6.989	(0.000)	41552	50.0000	62.24	43.67- 65.51	54.59
Average of Peak Amounts =					61.63		
35 PCB-1260 [2C]					CAS #: 11096-82-5		
9.829	9.829	(0.000)	@ 144160	50.0000	57.75	80.00- 120.00	100.00
8.712	8.712	(0.000)	91804	50.0000	59.72	50.95- 76.42	63.68
8.905	8.905	(0.000)	89204	50.0000	62.48	49.50- 74.25	61.88
9.129	9.129	(0.000)	89429	50.0000	58.96	49.63- 74.44	62.03
9.179	9.179	(0.000)	75155			41.71- 62.56	52.13
9.512	9.512	(0.000)	66042	50.0000	59.60	36.65- 54.97	45.81
10.280	10.280	(0.000)	101574			56.37- 84.55	70.46
10.930	10.930	(0.000)	34863			19.35- 29.02	24.18
Average of Peak Amounts =					59.7		

QC Flag Legend

M - Compound response manually integrated.

Data File: \\ELABNSHO5\TARGET\chem\ecd3.i\101011.b\022R2201.D
Injection Date: 10-OCT-2011 17:52
Instrument: ecd3.i
Client Sample ID:

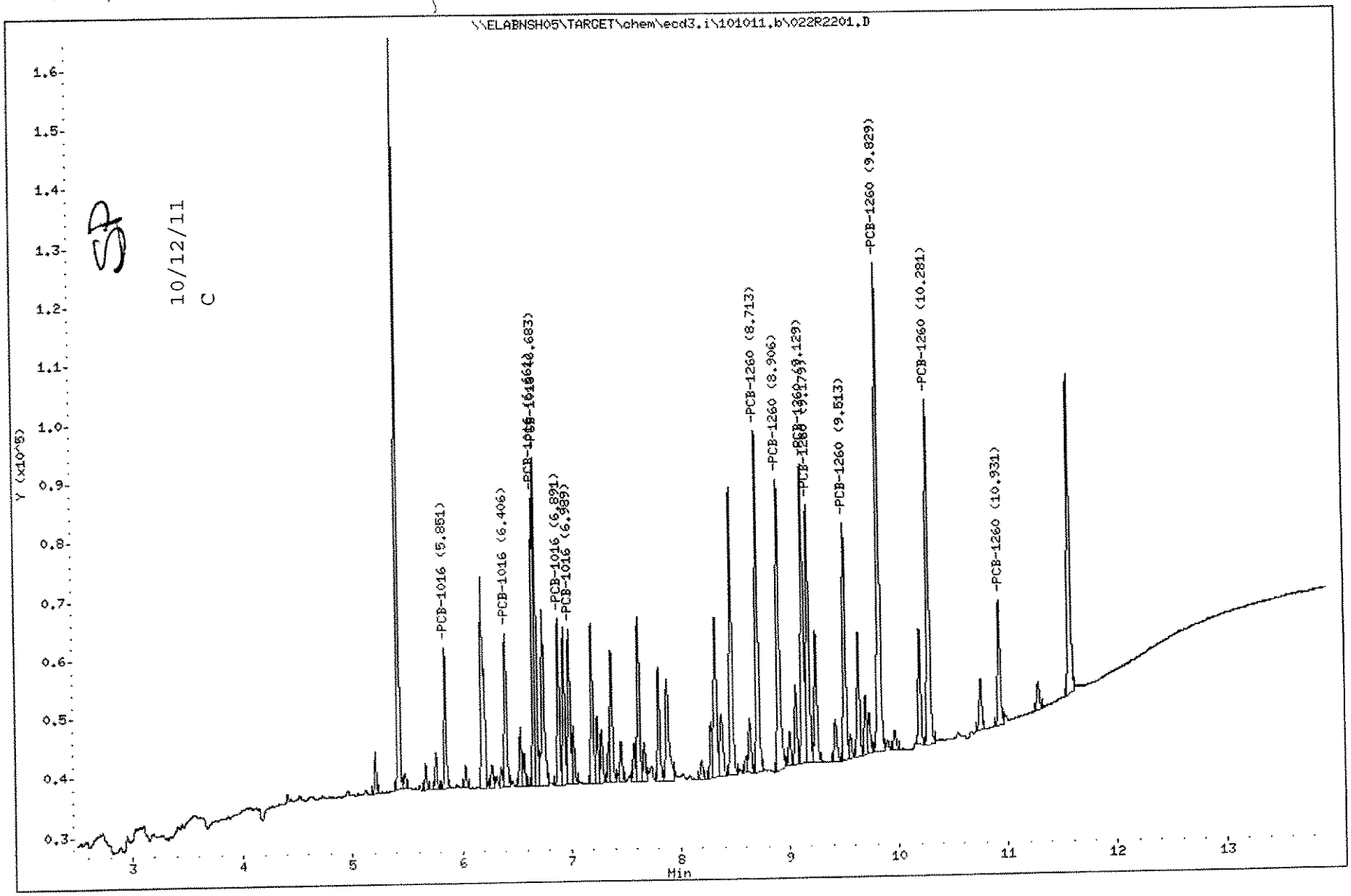


Data File: \\ELABNSH05\TARGET\chem\ecd3.i\101011.b\022R2201.D
Date : 10-OCT-2011 17:52
Client ID:
Sample Info: SEQ-CAL6

Column phase: ZB MR-2

Instrument: ecd3.i

Operator: EM
Column diameter: 0.32



SP

Laboratory Name

10/12/11

SW-846 METHODS 8081A/8082

JH 10.12.11

Data file : \\ELABNSH05\TARGET\chem\ecd3.i\101011.b\023R2301.D
Lab Smp Id: SEQ-CAL5
Inj Date : 10-OCT-2011 18:11
Operator : EM Inst ID: ecd3.i
Smp Info : SEQ-CAL5
Misc Info : ;;;;;;AR1660.sub
Comment :
Method : \\ELABNSH05\TARGET\chem\ecd3.i\101011.b\8081_82R.m
Meth Date : 11-Oct-2011 23:15 spatrona Quant Type: ESTD
Cal Date : 10-AUG-2011 19:35 Cal File: 002R0101.D
Als bottle: 23 Calibration Sample, Level: 5
Dil Factor: 1.00000
Integrator: Falcon Compound Sublist: AR1660.sub
Target Version: 4.04 Sample Matrix: None
Processing Host: TARGET14_VM

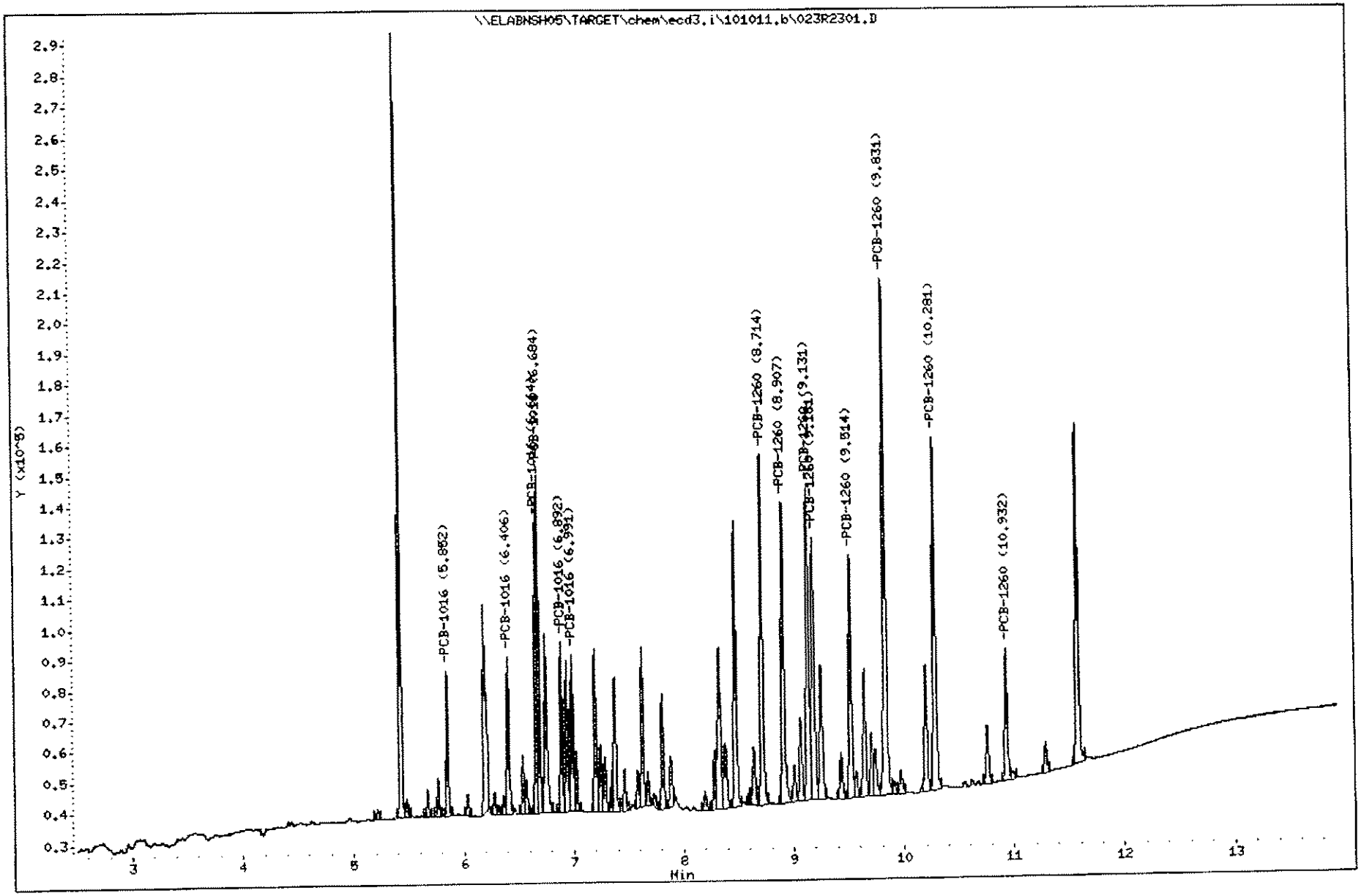
RT	EXP RT	DLT RT	RESPONSE	AMOUNTS CAL-AMT (ng/mL)	ON-COL (ng/mL)	TARGET RANGE	RATIO
29 PCB-1016 [2C]					CAS #: 12674-11-2		
6.684	6.684	(0.000)	145150	100.000	119.2	80.00- 120.00	100.00
5.852	5.852	(0.000)	55977			30.85- 46.28	38.56
6.405	6.405	(0.000)	80667	100.000	117.9	44.46- 66.69	55.57
6.664	6.664	(0.000)	109778	100.000	115.4	60.50- 90.76	75.63
6.892	6.892	(0.000)	75338	100.000	116.5	41.52- 62.28	51.90
6.990	6.990	(0.000)	@ 77389	100.000	115.9	42.65- 63.98	53.32
		Average of Peak Amounts =			116.9		
35 PCB-1260 [2C]					CAS #: 11096-82-5		
9.830	9.830	(0.000)	293816	100.000	117.7	80.00- 120.00	100.00
8.714	8.714	(0.000)	180638	100.000	117.5	49.18- 73.78	61.48
8.907	8.907	(0.000)	171298	100.000	120.0	46.64- 69.96	58.30
9.130	9.130	(0.000)	178937	100.000	118.0	48.72- 73.08	60.90
9.180	9.180	(0.000)	151013			41.12- 61.68	51.40
9.514	9.514	(0.000)	131488	100.000	118.7	35.80- 53.70	44.75
10.280	10.280	(0.000)	205798			56.03- 84.05	70.04
10.932	10.932	(0.000)	71048			19.34- 29.02	24.18
		Average of Peak Amounts =			118.4		

Data File: \\ELABNSH05\TARGET\chem\ecd3.i\101011.b\023R2301.D
Date : 10-OCT-2011 18:11
Client ID:
Sample Info: SEQ-CAL5

Column phase: ZB MR-2

Instrument: ecd3.i

Operator: EM
Column diameter: 0.32



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Laboratory Name 10/12/11

SW-846 METHODS 8081A/8082

Jff. 10.12.11

Data file : \\ELABNSH05\TARGET\chem\ecd3.i\101011.b\024R2401.D
Lab Smp Id: SEQ-CAL4
Inj Date : 10-OCT-2011 18:29
Operator : EM Inst ID: ecd3.i
Smp Info : SEQ-CAL4
Misc Info : ;;;;;;AR1660.sub
Comment :
Method : \\ELABNSH05\TARGET\chem\ecd3.i\101011.b\8081_82R.m
Meth Date : 11-Oct-2011 23:15 spatrona Quant Type: ESTD
Cal Date : 10-AUG-2011 19:35 Cal File: 002R0101.D
Als bottle: 24 Calibration Sample, Level: 4
Dil Factor: 1.00000
Integrator: Falcon Compound Sublist: AR1660.sub
Target Version: 4.04 Sample Matrix: None
Processing Host: TARGET14_VM

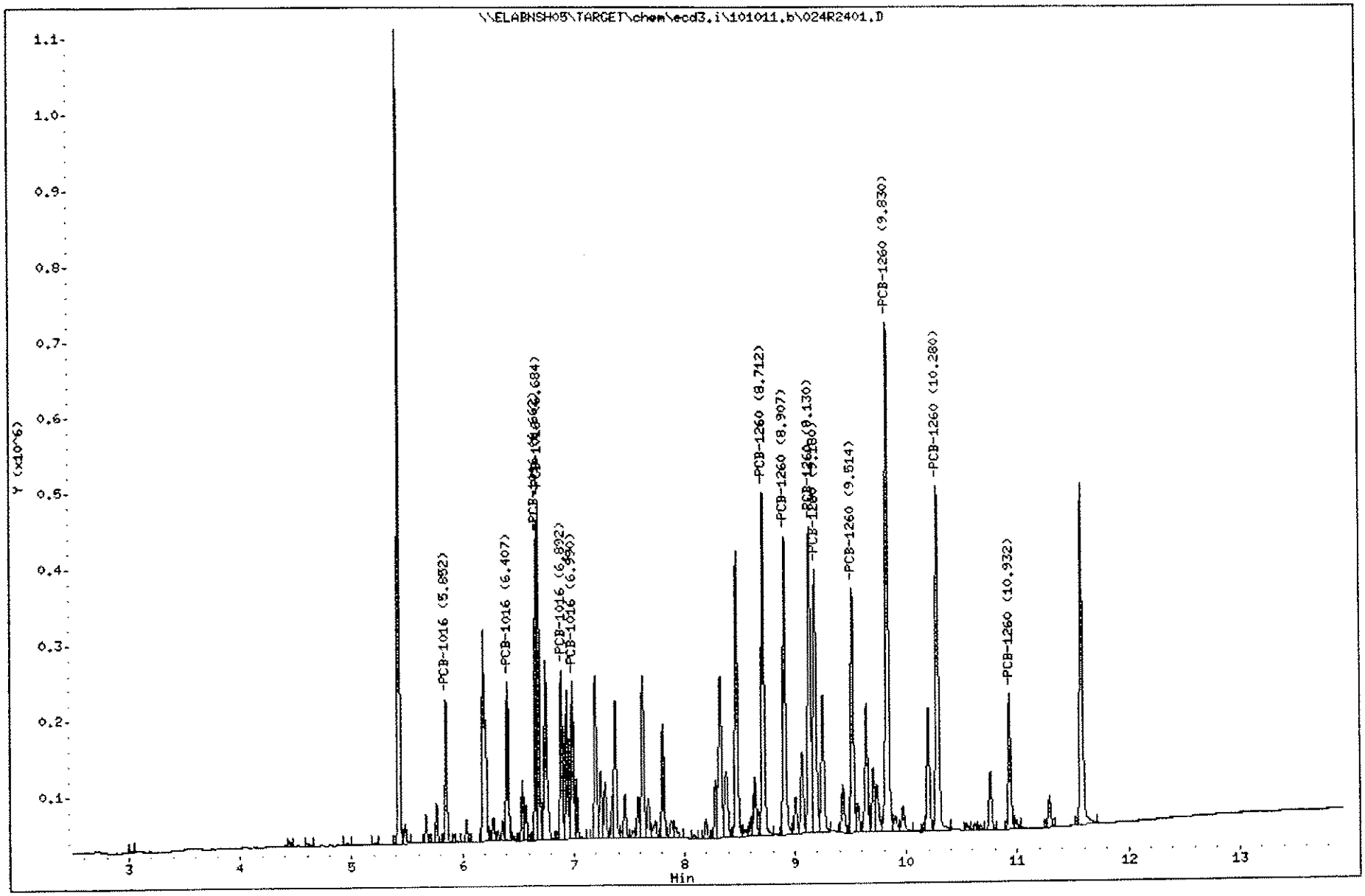
RT	EXP RT	DLT RT	RESPONSE	AMOUNTS CAL-AMT (ng/mL)	ON-COL (ng/mL)	TARGET RANGE	RATIO
29 PCB-1016 [2C]					CAS #: 12674-11-2		
6.683	6.683	(0.000)	582820	500.000	478.4	80.00- 120.00	100.00
5.852	5.852	(0.000)	225916			31.01- 46.52	38.76
6.407	6.407	(0.000)	323699	500.000	471.6	44.43- 66.65	55.54
6.662	6.662	(0.000)	449271	500.000	472.2	61.67- 92.50	77.09
6.892	6.892	(0.000)	@ 306276	500.000	473.6	42.04- 63.06	52.55
6.990	6.990	(0.000)	315148	500.000	472.0	43.26- 64.89	54.07
		Average of Peak Amounts =			473.6		
35 PCB-1260 [2C]					CAS #: 11096-82-5		
9.830	9.830	(0.000)	1198887	500.000	480.3	80.00- 120.00	100.00
8.712	8.712	(0.000)	730301	500.000	475.1	48.73- 73.10	60.91
8.907	8.907	(0.000)	668254	500.000	468.0	44.59- 66.89	55.74
9.130	9.130	(0.000)	719703	500.000	474.5	48.02- 72.04	60.03
9.180	9.180	(0.000)	609903			40.70- 61.05	50.87
9.513	9.513	(0.000)	525622	500.000	474.4	35.07- 52.61	43.84
10.280	10.280	(0.000)	851370			56.81- 85.22	71.01
10.932	10.932	(0.000)	288620			19.26- 28.89	24.07
		Average of Peak Amounts =			474.5		

Data File: \\ELABNSH05\TARGET\chem\ecd3.i\101011.b\024R2401.D
Date : 10-OCT-2011 18:29
Client ID:
Sample Info: SEQ-CAL4

Column phase: ZB MR-2

Instrument: ecd3.i

Operator: EH
Column diameter: 0.32



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Laboratory Name 10/12/11

SW-846 METHODS 8081A/8082 J.H. 10.12.11

Data file : \\ELABNSH05\TARGET\chem\ecd3.i\101011.b\025R2501.D
Lab Smp Id: SEQ-CAL3
Inj Date : 10-OCT-2011 18:48
Operator : EM Inst ID: ecd3.i
Smp Info : SEQ-CAL3
Misc Info : ;;;;;;AR1660.sub
Comment :
Method : \\ELABNSH05\TARGET\chem\ecd3.i\101011.b\8081_82R.m
Meth Date : 11-Oct-2011 23:16 spatrona Quant Type: ESTD
Cal Date : 10-AUG-2011 19:35 Cal File: 002R0101.D
Als bottle: 25 Calibration Sample, Level: 3
Dil Factor: 1.00000
Integrator: Falcon Compound Sublist: AR1660.sub
Target Version: 4.04 Sample Matrix: None
Processing Host: TARGET14_VM

RT	EXP RT	DLT RT	RESPONSE	AMOUNTS CAL-AMT (ng/mL)	ON-COL (ng/mL)	TARGET RANGE	RATIO
29 PCB-1016 [2C]					CAS #: 12674-11-2		
6.683	6.683	(0.000)	812902	750.000 X	667.3	80.00- 120.00	100.00
5.851	5.851	(0.000)	323257			31.81- 47.72	39.77
6.405	6.405	(0.000)	465184	750.000	677.8	45.78- 68.67	57.23
6.661	6.661	(0.000)	@ 657159	750.000	690.7	64.67- 97.01	80.84
6.891	6.891	(0.000)	439000	750.000	678.9	43.20- 64.80	54.00
6.990	6.990	(0.000)	448528	750.000	671.8	44.14- 66.21	55.18
		Average of Peak Amounts =			677.3		
35 PCB-1260 [2C]					CAS #: 11096-82-5		
9.830	9.830	(0.000)	1697671	750.000	680.1	80.00- 120.00	100.00
8.713	8.713	(0.000)	1034050	750.000	672.7	48.73- 73.09	60.91
8.906	8.906	(0.000)	941640	750.000	659.5	44.37- 66.56	55.47
9.130	9.130	(0.000)	1023611	750.000	674.8	48.24- 72.35	60.30
9.180	9.180	(0.000)	864750			40.75- 61.12	50.94
9.513	9.513	(0.000)	744483	750.000	671.9	35.08- 52.62	43.85
10.280	10.280	(0.000)	1205691			56.82- 85.22	71.02
10.931	10.931	(0.000)	411741			19.40- 29.10	24.25
		Average of Peak Amounts =			671.8		

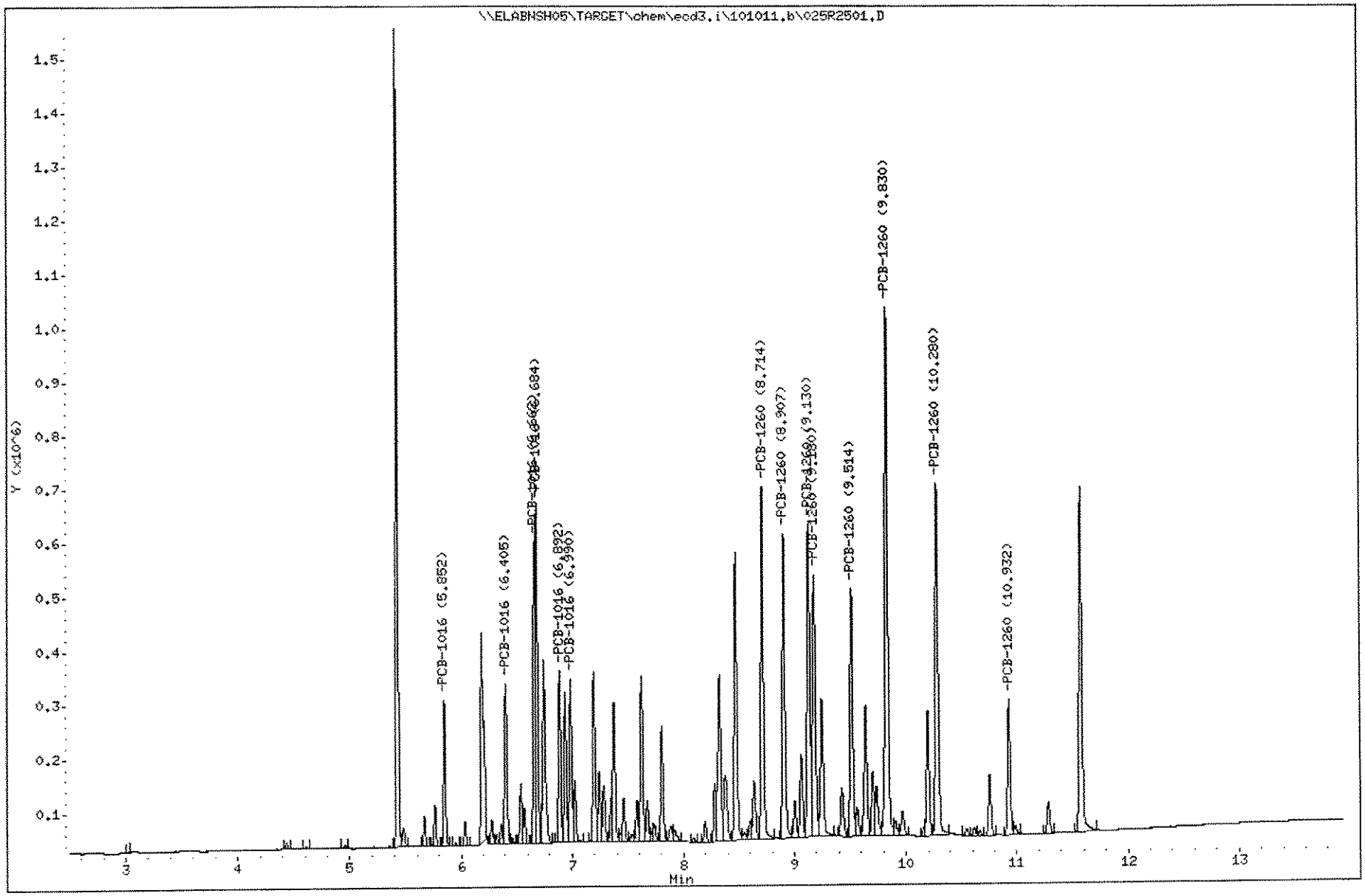
Data File: \\ELABNSH05\TARGET\chem\ecd3.i\101011.b\025R2501.D
Date : 10-OCT-2011 18:48
Client ID:
Sample Info: SEQ-CAL3

Instrument: ecd3.i

Operator: EH

Column phase: ZB MR-2

Column diameter: 0.32



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Laboratory Name 10/12/11

SW-846 METHODS 8081A/8082

10.12.11

Data file : \\ELABNSH05\TARGET\chem\ecd3.i\101011.b\026R2601.D
Lab Smp Id: SEQ-CAL2
Inj Date : 10-OCT-2011 19:07
Operator : EM Inst ID: ecd3.i
Smp Info : SEQ-CAL2
Misc Info : ;;;;;;AR1660.sub
Comment :
Method : \\ELABNSH05\TARGET\chem\ecd3.i\101011.b\8081_82R.m
Meth Date : 11-Oct-2011 23:16 spatrona Quant Type: ESTD
Cal Date : 10-AUG-2011 19:35 Cal File: 002R0101.D
Als bottle: 26 Calibration Sample, Level: 2
Dil Factor: 1.00000
Integrator: Falcon Compound Sublist: AR1660.sub
Target Version: 4.04 Sample Matrix: None
Processing Host: TARGET14_VM

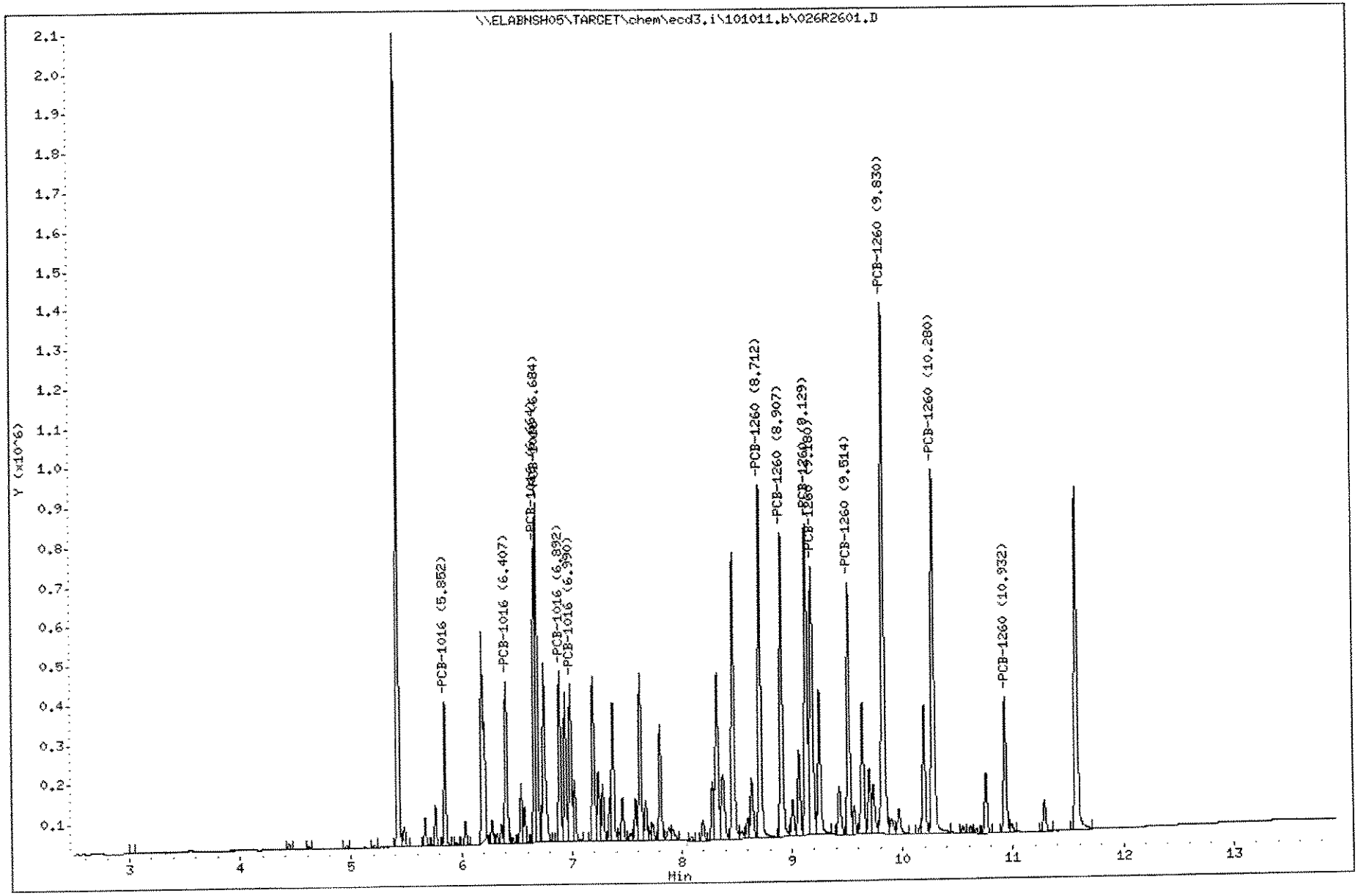
RT	EXP RT	DLT RT	RESPONSE	AMOUNTS CAL-AMT (ng/mL)	ON-COL (ng/mL)	TARGET RANGE	RATIO
29 PCB-1016 [2C]					CAS #: 12674-11-2		
6.683	6.683	(0.000)	1113484	1000.00	914.0	80.00- 120.00	100.00
5.851	5.851	(0.000)	434457			31.21- 46.82	39.02
6.406	6.406	(0.000)	@628724	1000.00	916.0	45.17- 67.76	56.46
6.663	6.663	(0.000)	867846	1000.00	912.2	62.35- 93.53	77.94
6.891	6.891	(0.000)	592651	1000.00	916.5	42.58- 63.87	53.22
6.990	6.990	(0.000)	611874	1000.00	916.4	43.96- 65.94	54.95
Average of Peak Amounts =					915		
35 PCB-1260 [2C]					CAS #: 11096-82-5		
9.830	9.830	(0.000)	2360478	1000.00	945.6	80.00- 120.00	100.00
8.711	8.711	(0.000)	1446451	1000.00	941.0	49.02- 73.53	61.28
8.906	8.906	(0.000)	1301931	1000.00	911.9	44.12- 66.19	55.16
9.128	9.128	(0.000)	1415137	1000.00	933.0	47.96- 71.94	59.95
9.180	9.180	(0.000)	1195903			40.53- 60.80	50.66
9.513	9.513	(0.000)	1031695	1000.00	931.1	34.97- 52.45	43.71
10.280	10.280	(0.000)	1698912			57.58- 86.37	71.97
10.931	10.931	(0.000)	572161			19.39- 29.09	24.24
Average of Peak Amounts =					932.5		

Data File: \\ELABNSH05\TARGET\chem\ecd3.i\101011.b\026R2601.D
Date : 10-OCT-2011 19:07
Client ID:
Sample Info: SEQ-CAL2

Column phase: ZB MR-2

Instrument: ecd3.i

Operator: EM
Column diameter: 0.32



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10/12/11

Laboratory Name

10-12-11

SW-846 METHODS 8081A/8082

Data file : \\ELABNSH05\TARGET\chem\ecd3.i\101011.b\027R2701.D
Lab Smp Id: SEQ-CAL1
Inj Date : 10-OCT-2011 19:26
Operator : EM Inst ID: ecd3.i
Smp Info : SEQ-CAL1
Misc Info : ;;;;;;AR1660.sub
Comment :
Method : \\ELABNSH05\TARGET\chem\ecd3.i\101011.b\8081_82R.m
Meth Date : 11-Oct-2011 23:16 spatrona Quant Type: ESTD
Cal Date : 10-AUG-2011 19:35 Cal File: 002R0101.D
Als bottle: 27 Calibration Sample, Level: 1
Dil Factor: 1.00000
Integrator: Falcon Compound Sublist: AR1660.sub
Target Version: 4.04 Sample Matrix: None
Processing Host: TARGET14_VM

RT	EXP RT	DLT RT	RESPONSE	AMOUNTS CAL-AMT (ng/mL)	AMOUNTS ON-COL (ng/mL)	TARGET RANGE	RATIO
29 PCB-1016 [2C]					CAS #: 12674-11-2		
6.684	6.684	(0.000)	@ 2431166	2500.00	1996	80.00- 120.00	100.00
5.851	5.851	(0.000)	967945			31.85- 47.78	39.81
6.406	6.406	(0.000)	1438426	2500.00	2096	47.33- 71.00	59.17
6.663	6.663	(0.000)	2014120	2500.00	2117	66.28- 99.42	82.85
6.891	6.891	(0.000)	1361280	2500.00	2105	44.79- 67.19	55.99
6.989	6.989	(0.000)	1401922	2500.00	2100	46.13- 69.20	57.66
		Average of Peak Amounts =			2083		
35 PCB-1260 [2C]					CAS #: 11096-82-5		
9.829	9.829	(0.000)	5335155	2500.00	2137	80.00- 120.00	100.00
8.713	8.713	(0.000)	3235874	2500.00	2105	48.52- 72.78	60.65
8.906	8.906	(0.000)	2938567	2500.00	2058	44.06- 66.10	55.08
9.131	9.131	(0.000)	3259306	2500.00	2149	48.87- 73.31	61.09
9.179	9.179	(0.000)	2702798			40.53- 60.79	50.66
9.513	9.513	(0.000)	2342807	2500.00	2114	35.13- 52.70	43.91
10.281	10.281	(0.000)	3856582			57.83- 86.74	72.29
10.931	10.931	(0.000)	1297576			19.46- 29.19	24.32
		Average of Peak Amounts =			2113		

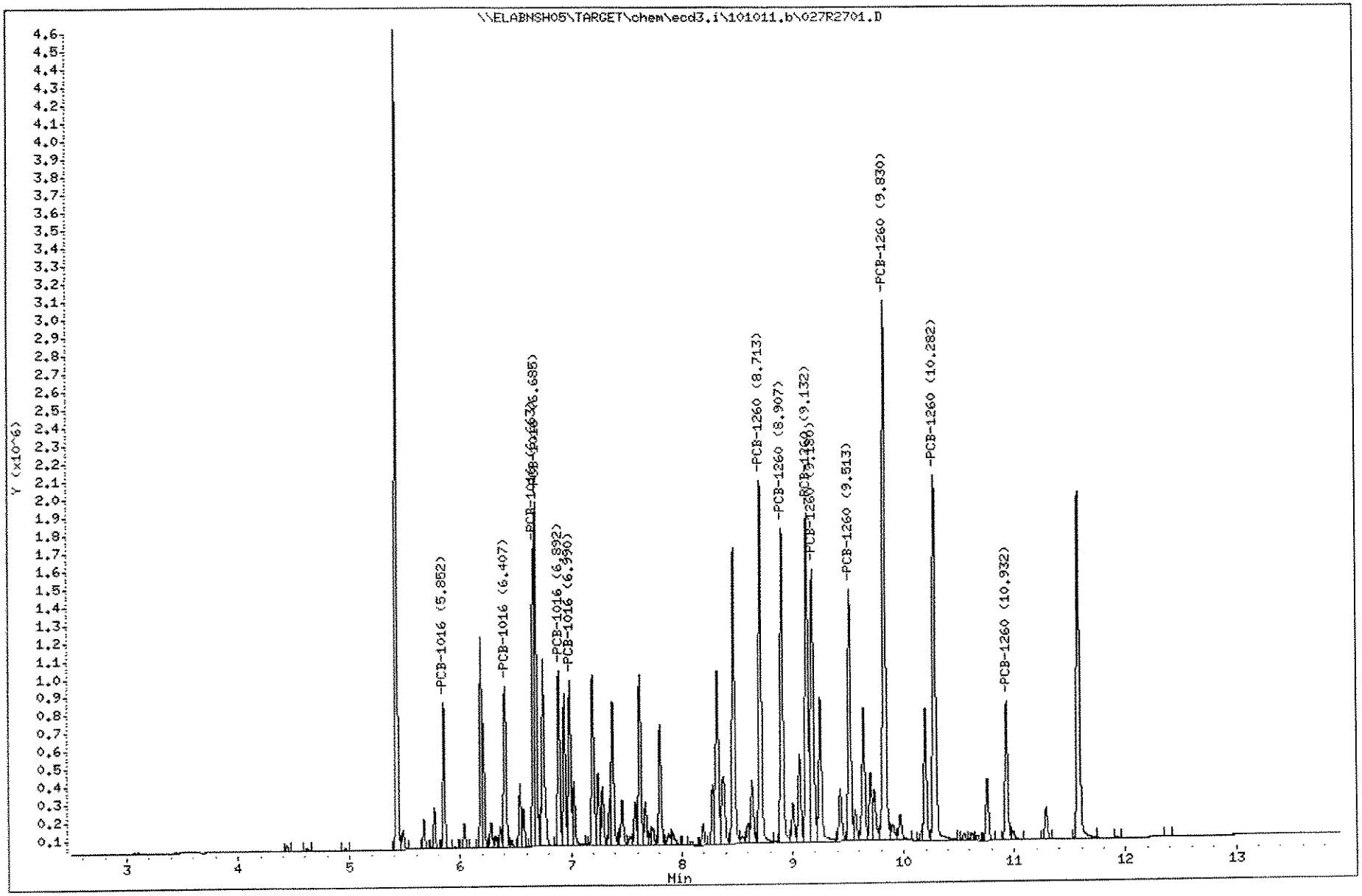
Data File: \\ELABNSH05\TARGET\chem\ecd3.i\101011.b\027R2701.D
Date : 10-OCT-2011 19:26
Client ID:
Sample Info: SEQ-CAL1

Instrument: ecd3.i

Operator: EM

Column phase: ZB MR-2

Column diameter: 0.32



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10/12/11

Laboratory Name

SW-846 METHODS 8081A/8082

J.H. 10-12-11

Data file : \\ELABNSH05\TARGET\chem\ecd3.i\101011.b\028R2801.D
Lab Smp Id: SEQ-ICV1
Inj Date : 10-OCT-2011 19:45
Operator : EM
Inst ID: ecd3.i
Smp Info : SEQ-ICV1
Misc Info : ;;;;;;AR1660.sub
Comment :
Method : \\ELABNSH05\TARGET\chem\ecd3.i\101011.b\8081_82R.m
Meth Date : 11-Oct-2011 23:16 spatrona
Quant Type: ESTD
Cal Date : 10-AUG-2011 19:35
Cal File: 002R0101.D
Als bottle: 28
Continuing Calibration Sample
Dil Factor: 1.00000
Integrator: Falcon
Compound Sublist: AR1660.sub
Target Version: 4.04
Sample Matrix: None
Processing Host: TARGET14_VM

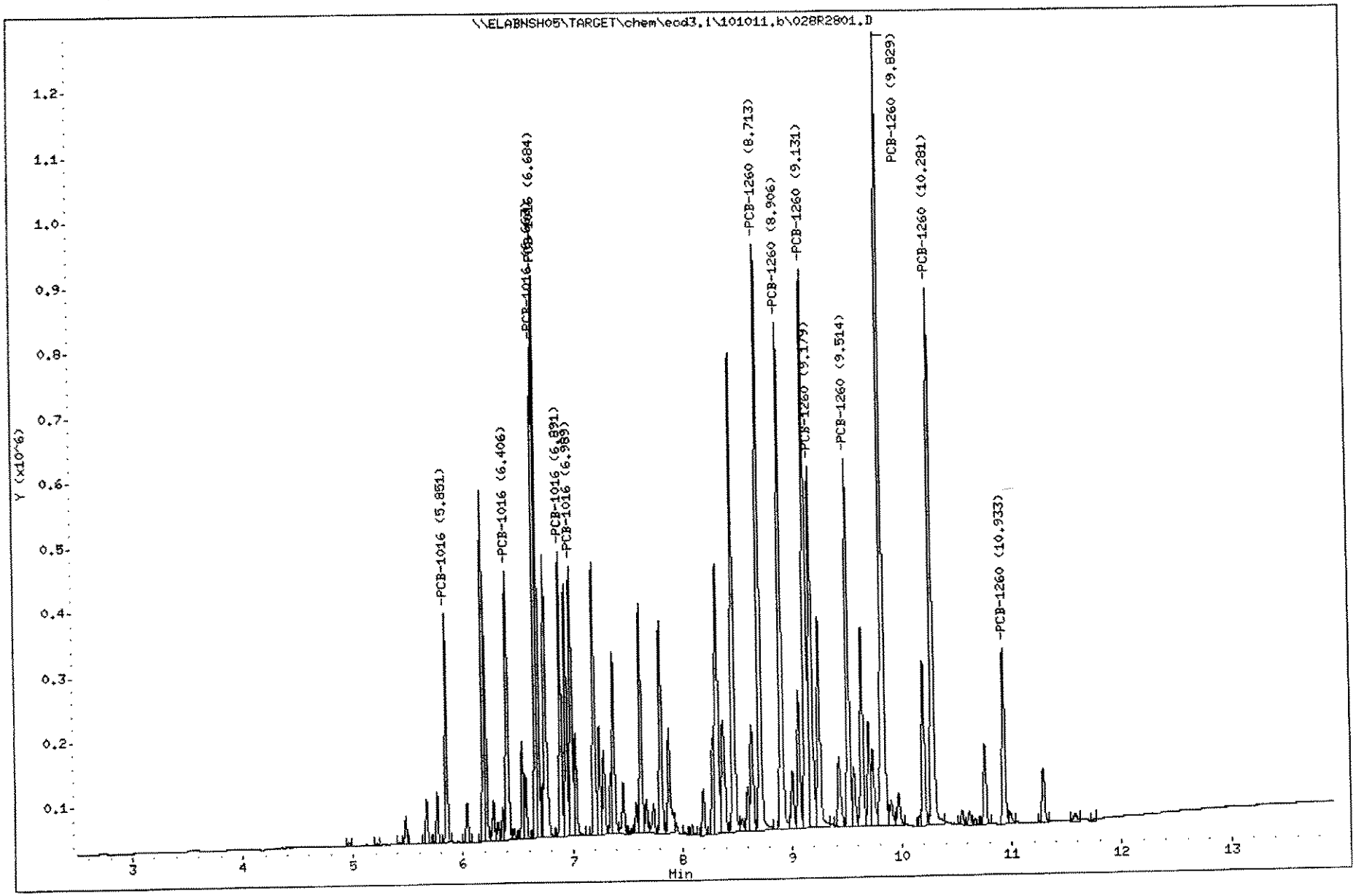
RT	EXP RT	DLT RT	RESPONSE	AMOUNTS CAL-AMT (ng/mL)	ON-COL (ng/mL)	TARGET RANGE	RATIO
29 PCB-1016 [2C]					CAS #: 12674-11-2		
6.684	6.684	(0.000)	1088503	1000.00 X	893.5	80.00- 120.00	100.00
5.851	5.851	(0.000)	421644			30.99- 46.48	38.74
6.406	6.406	(0.000)	644952	1000.00	939.7	47.40- 71.10	59.25
6.662	6.662	(0.000)	916643	1000.00	963.4	67.37- 101.05	84.21
6.891	6.891	(0.000)	603381	1000.00	933.1	44.35- 66.52	55.43
6.989	6.989	(0.000)	633870	1000.00	949.4	46.59- 69.88	58.23
Average of Peak Amounts =					935.8		
35 PCB-1260 [2C]					CAS #: 11096-82-5		
9.829	9.829	(0.000)	2154641	1000.00	863.2	80.00- 120.00	100.00
8.712	8.712	(0.000)	1438165	1000.00	935.6	53.40- 80.10	66.75
8.906	8.906	(0.000)	1311635	1000.00	918.7	48.70- 73.05	60.87
9.131	9.131	(0.000)	1529655	1000.00	1008	56.79- 85.19	70.99
9.179	9.179	(0.000)	1037880			38.54- 57.80	48.17
9.514	9.514	(0.000)	919792	1000.00	830.1	34.15- 51.23	42.69
10.281	10.281	(0.000)	1517984			56.36- 84.54	70.45
10.932	10.932	(0.000)	431148			16.01- 24.01	20.01
Average of Peak Amounts =					911.2		

Data File: \\ELABNSH05\TARGET\chem\ecd3.i\101011.b\028R2801.D
Date : 10-OCT-2011 19:45
Client ID:
Sample Info: SEQ-ICV1

Column phase: ZB MR-2

Instrument: ecd3.i

Operator: EH
Column diameter: 0.32



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Laboratory Name 10/12/11

10-12-11

SW-846 METHODS 8081A/8082

Data file : \\ELABNSH05\TARGET\chem\ecd3.i\101011.b\029F2901.D
Lab Smp Id: SEQ-CAL7
Inj Date : 10-OCT-2011 20:03
Operator : EM
Smp Info : SEQ-CAL7
Misc Info : ;;;;;;AR1254.sub
Comment :
Method : \\ELABNSH05\TARGET\chem\ecd3.i\101011.b\8081_82F.m
Meth Date : 11-Oct-2011 23:17 spatrona
Cal Date : 10-AUG-2011 19:35
Als bottle: 29
Dil Factor: 1.00000
Integrator: Falcon
Target Version: 4.04
Processing Host: TARGET14_VM

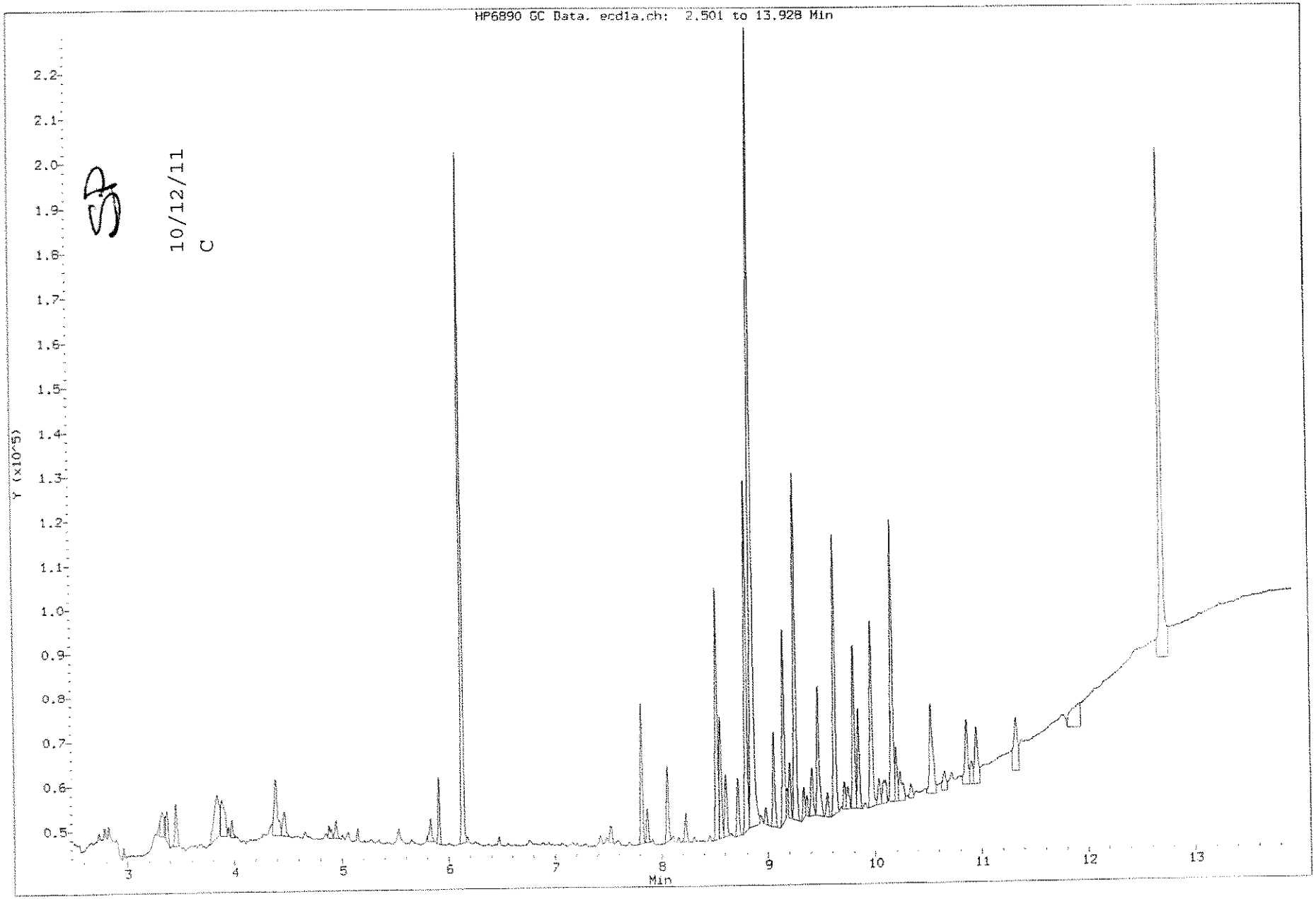
Inst ID: ecd3.i

Quant Type: ESTD
Cal File: 002F0101.D
Calibration Sample, Level: 6

Compound Sublist: AR1254.sub
Sample Matrix: None

RT	EXP RT	DLT RT	RESPONSE	AMOUNTS CAL-AMT (ng/mL)	ON-COL (ng/mL)	TARGET RANGE	RATIO
34 PCB-1254					CAS #: 11097-69-1		
9.254	9.254	(0.000)	@115344	50.0000	52.73	80.00- 120.00	100.00
7.811	7.811	(0.000)	39806	50.0000	54.44	27.61- 41.41	34.51
8.521	8.521	(0.000)	75574			52.42- 78.62	65.52
8.796	8.796	(0.000)	114110	50.0000	54.37	79.14- 118.72	98.93
9.621	9.621	(0.000)	92790	50.0000	54.44	64.36- 96.54	80.45
10.159	10.159	(0.000)	96720	50.0000	53.29	67.08- 100.62	83.85
		Average of Peak Amounts =			53.85		

Data File: \\ELABNSHOS\TARGET\chem\ecd3.i\101011.b\029F2901.D
Injection Date: 10-OCT-2011 20:03
Instrument: ecd3.i
Client Sample ID:

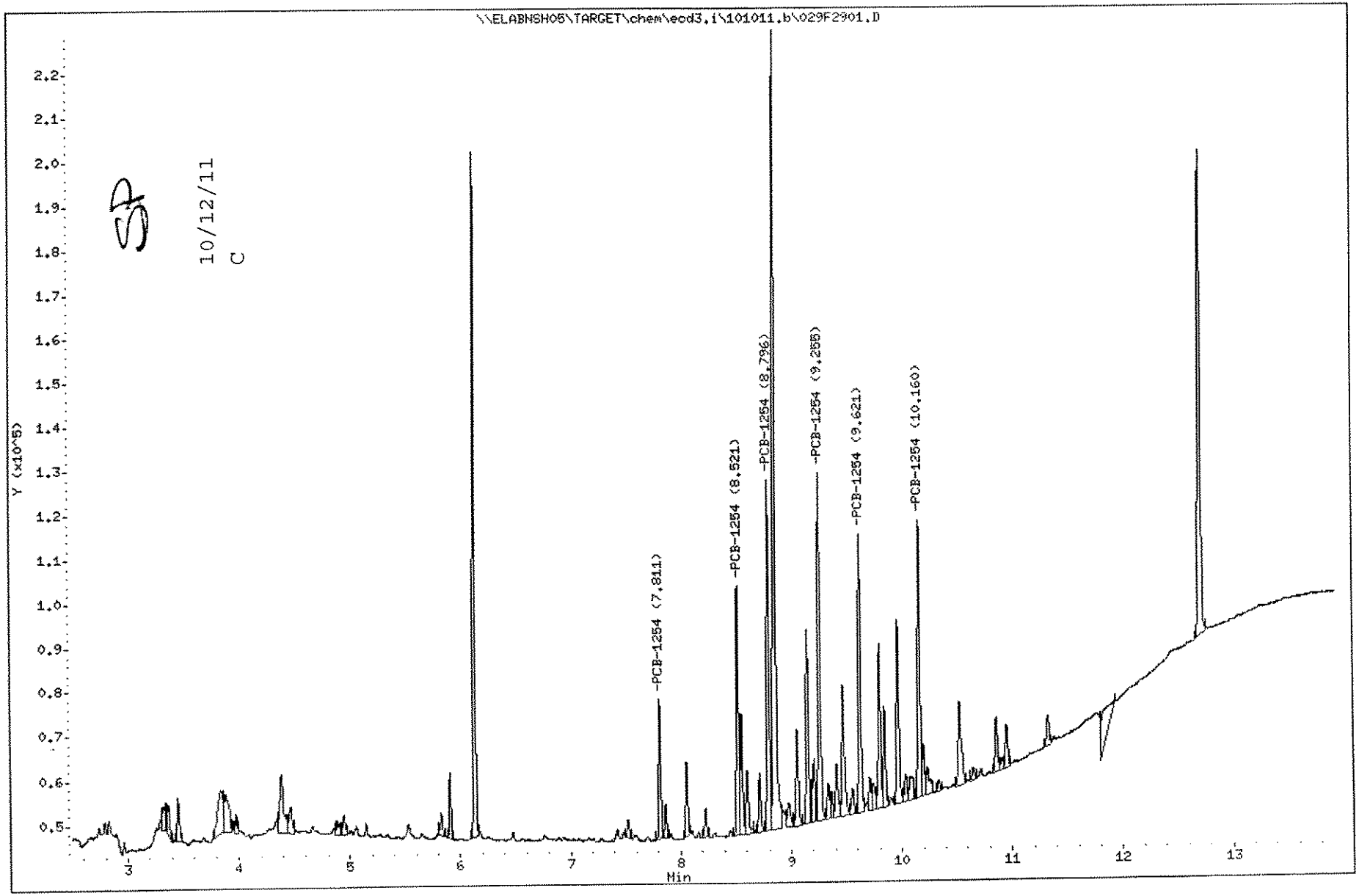


Data File: \\ELABNSH05\TARGET\chem\ecd3.i\101011.b\029F2901.D
Date : 10-OCT-2011 20:03
Client ID:
Sample Info: SEQ-CAL7

Column phase: ZB MR-1

Instrument: ecd3.i

Operator: EM
Column diameter: 0.32



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Laboratory Name

10/12/11

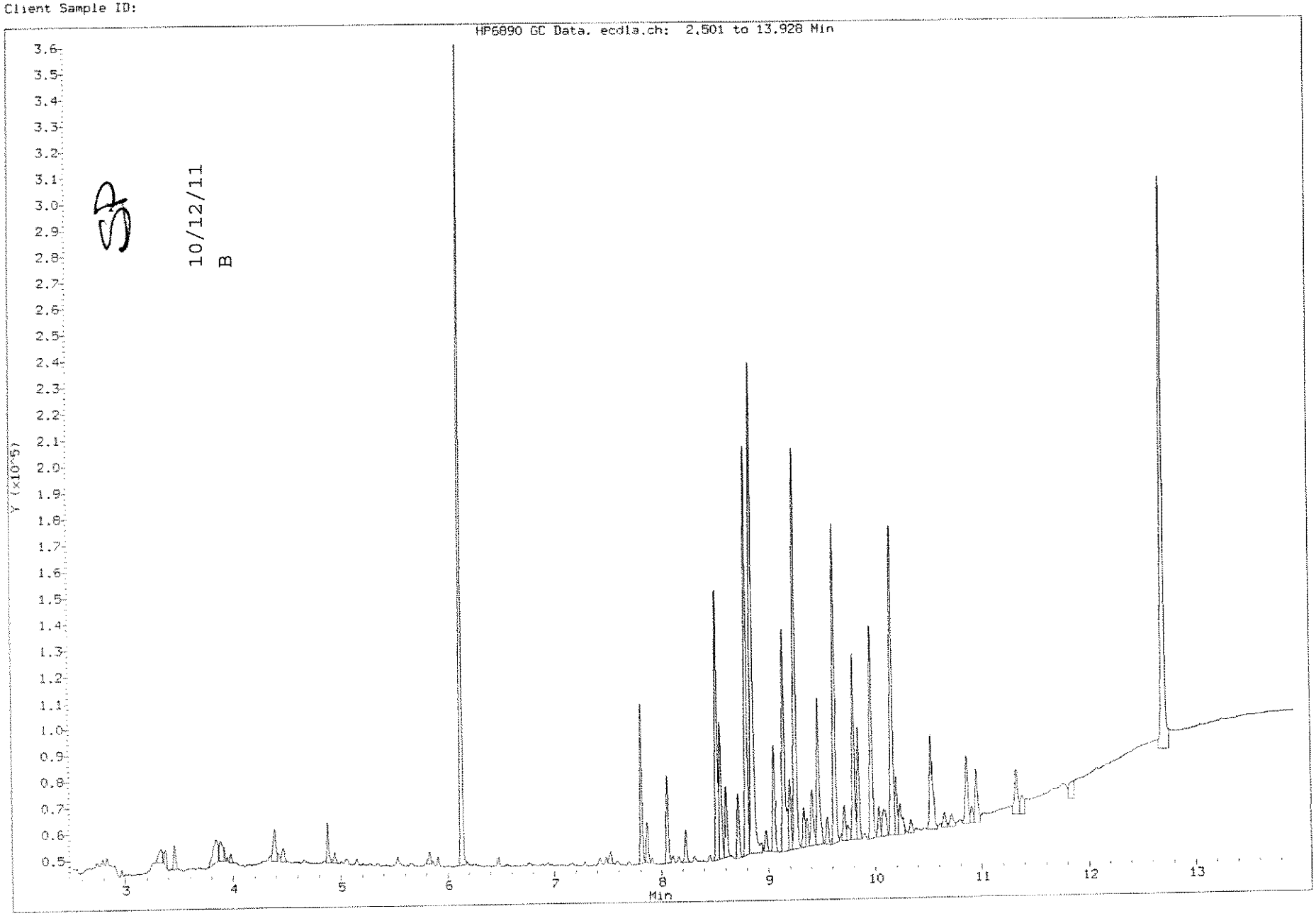
SW-846 METHODS 8081A/8082

J.H. 10.12.11

Data file : \\ELABNSH05\TARGET\chem\ecd3.i\101011.b\030F3001.D
Lab Smp Id: SEQ-CAL8
Inj Date : 10-OCT-2011 20:22
Operator : EM
Inst ID: ecd3.i
Smp Info : SEQ-CAL8
Misc Info : ;;;;;;AR1254.sub
Comment :
Method : \\ELABNSH05\TARGET\chem\ecd3.i\101011.b\8081_82F.m
Meth Date : 11-Oct-2011 23:17 spatrona
Quant Type: ESTD
Cal Date : 10-AUG-2011 19:35
Cal File: 002F0101.D
Als bottle: 30
Calibration Sample, Level: 5
Dil Factor: 1.00000
Integrator: Falcon
Compound Sublist: AR1254.sub
Target Version: 4.04
Sample Matrix: None
Processing Host: TARGET14_VM

RT	EXP RT	DLT RT	RESPONSE	AMOUNTS CAL-AMT (ng/mL)	AMOUNTS ON-COL (ng/mL)	TARGET RANGE	RATIO
**	=====	========	========	=======	=======	==========	=====
34 PCB-1254					CAS #: 11097-69-1		
9.256	9.256	(0.000)	220707	100.000	100.9	80.00- 120.00	100.00
7.811	7.811	(0.000)	76845	100.000	105.1	27.85- 41.78	34.82
8.521	8.521	(0.000)	143694			52.08- 78.13	65.11
8.796	8.796	(0.000)	214803	100.000	102.3	77.86- 116.79	97.32
9.621	9.621	(0.000)	173330	100.000	101.7	62.83- 94.24	78.53
10.159	10.159	(0.000)	@ 183598	100.000	101.2	66.55- 99.82	83.19
		Average of Peak Amounts =			102.2		

Data File: \\ELABNSH05\TARGET\chem\ecd3.i\101011.b\030F3001.D
Injection Date: 10-OCT-2011 20:22
Instrument: ecd3.i
Client Sample ID:



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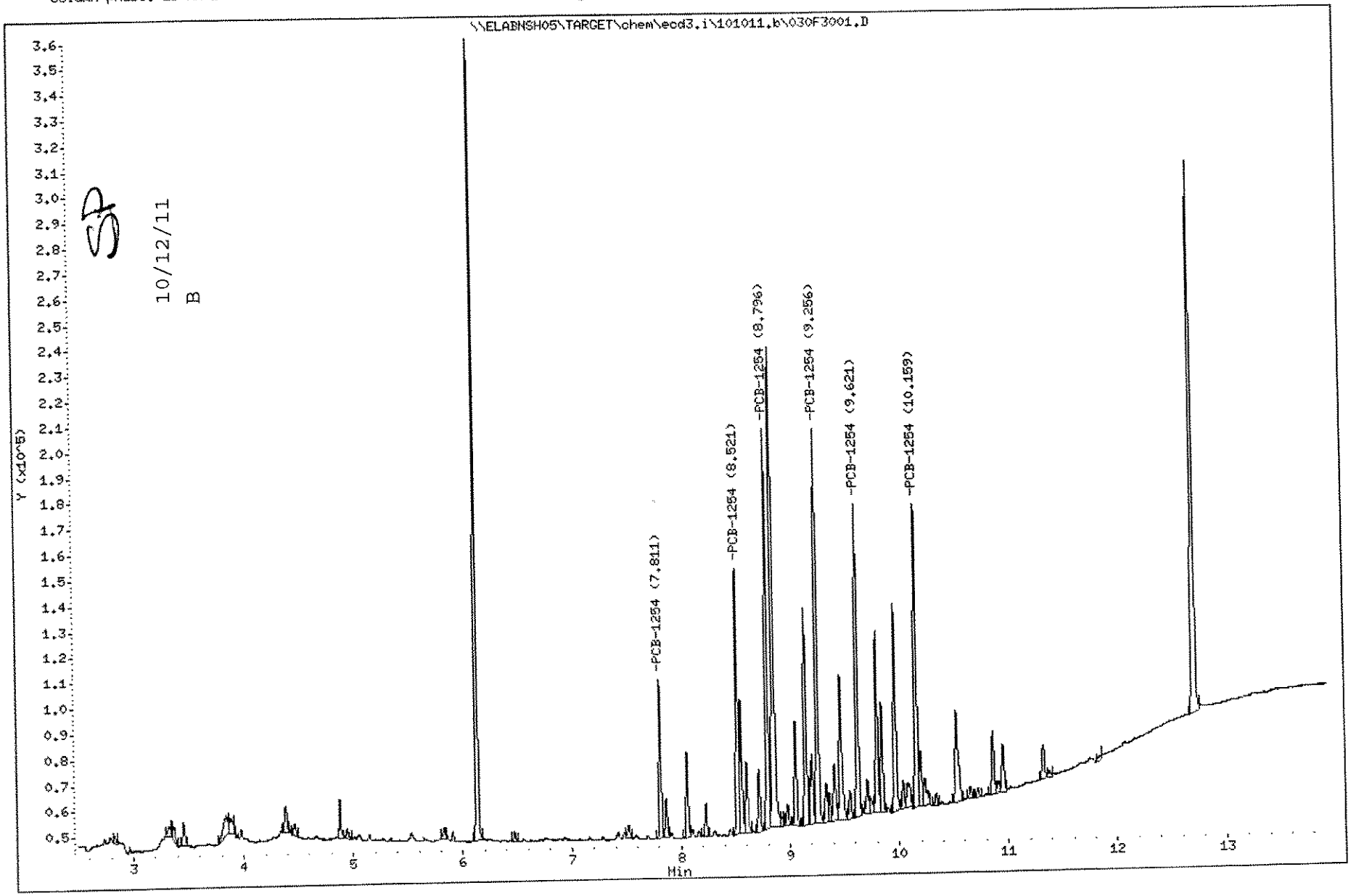
Data File: \\ELABNSH05\TARGET\chem\ecd3.i\101011.b\030F3001.D
Date : 10-OCT-2011 20:22
Client ID:
Sample Info: SEQ-CAL8

Column phase: ZB MR-1

Instrument: ecd3.i

Operator: EH
Column diameter: 0.32



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J.H. 10.12.11

Laboratory Name

SW-846 METHODS 8081A/8082

Data file : \\ELABNSH05\TARGET\chem\ecd3.i\101011.b\031F3101.D
Lab Smp Id: SEQ-CAL9
Inj Date : 10-OCT-2011 20:41
Operator : EM Inst ID: ecd3.i
Smp Info : SEQ-CAL9
Misc Info : ;;;;;;AR1254.sub
Comment :
Method : \\ELABNSH05\TARGET\chem\ecd3.i\101011.b\8081_82F.m
Meth Date : 11-Oct-2011 23:17 spatrona Quant Type: ESTD
Cal Date : 10-AUG-2011 19:35 Cal File: 002F0101.D
Als bottle: 31 Calibration Sample, Level: 4
Dil Factor: 1.00000
Integrator: Falcon Compound Sublist: AR1254.sub
Target Version: 4.04 Sample Matrix: None
Processing Host: TARGET14_VM

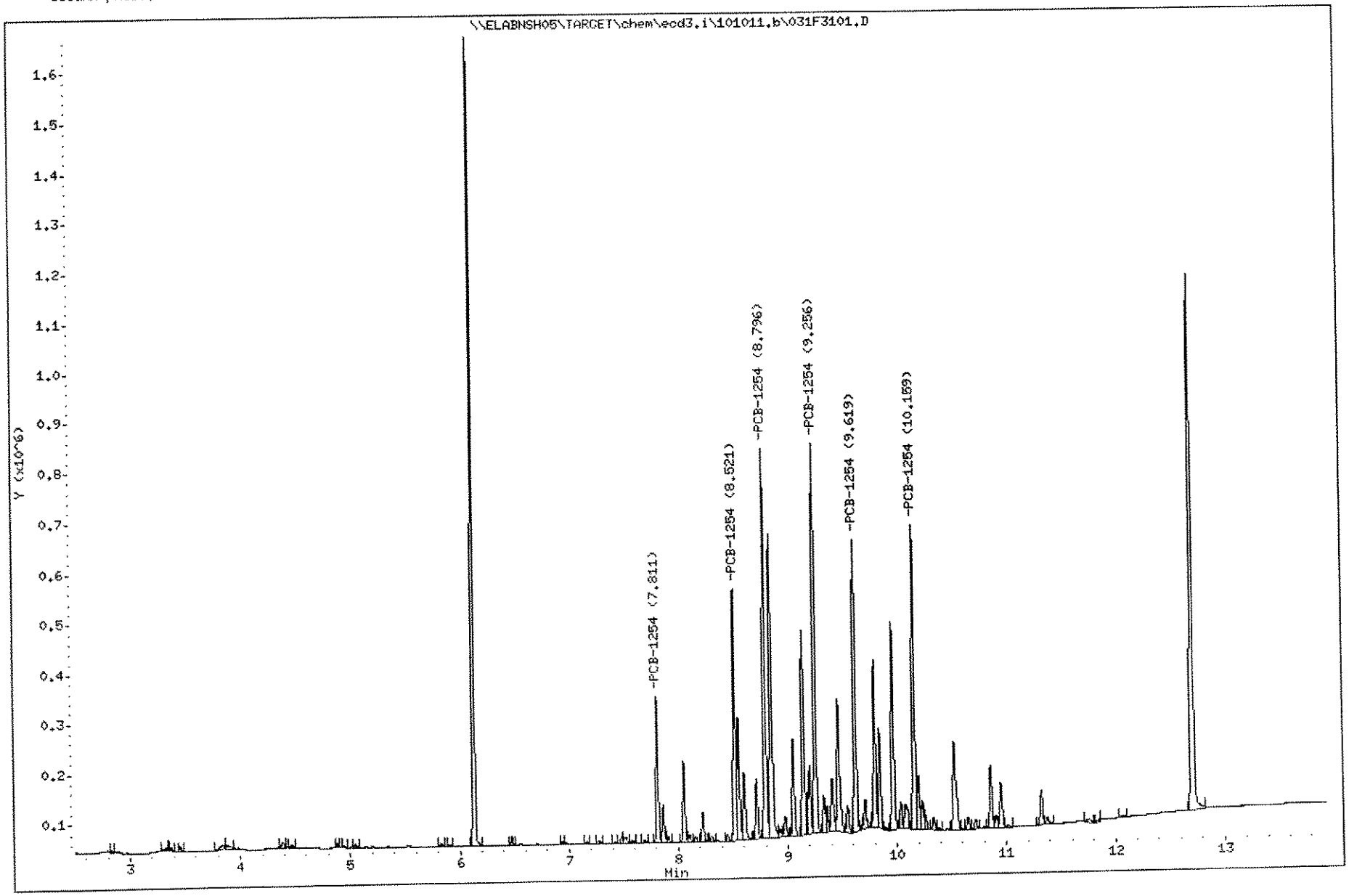
RT	EXP RT	DLT RT	RESPONSE	AMOUNTS CAL-AMT (ng/mL)	AMOUNTS ON-COL (ng/mL)	TARGET RANGE	RATIO
34 PCB-1254					CAS #: 11097-69-1		
9.255	9.255	(0.000)	1094607	500.000	500.4	80.00- 120.00	100.00
7.810	7.810	(0.000)	368627	500.000	504.1	26.94- 40.41	33.68
8.520	8.520	(0.000)	674145			49.27- 73.91	61.59
8.795	8.795	(0.000)	1058071	500.000	504.1	77.33- 115.99	96.66
9.618	9.618	(0.000)	@851165	500.000	499.4	62.21- 93.31	77.76
10.158	10.158	(0.000)	917320	500.000 X	505.4	67.04- 100.56	83.80
		Average of Peak Amounts =			502.7		

Data File: \\ELABNSH05\TARGET\chem\ecd3.i\101011.b\031F3101.D
Date : 10-OCT-2011 20:41
Client ID:
Sample Info: SEQ-CAL9

Column phase: ZB MR-1

Instrument: ecd3.i

Operator: EM
Column diameter: 0.32



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J.H. 10.12.11

Laboratory Name

SW-846 METHODS 8081A/8082

Data file : \\ELABNSH05\TARGET\chem\ecd3.i\101011.b\032F3201.D
Lab Smp Id: SEQ-CALA
Inj Date : 10-OCT-2011 21:00
Operator : EM
Smp Info : SEQ-CALA
Misc Info : ;;;;;;AR1254.sub
Comment :
Method : \\ELABNSH05\TARGET\chem\ecd3.i\101011.b\8081_82F.m
Meth Date : 11-Oct-2011 23:17 spatrona
Cal Date : 10-AUG-2011 19:35
Als bottle: 32
Dil Factor: 1.00000
Integrator: Falcon
Target Version: 4.04
Processing Host: TARGET14_VM

Inst ID: ecd3.i

Quant Type: ESTD
Cal File: 002F0101.D
Calibration Sample, Level: 3

Compound Sublist: AR1254.sub
Sample Matrix: None

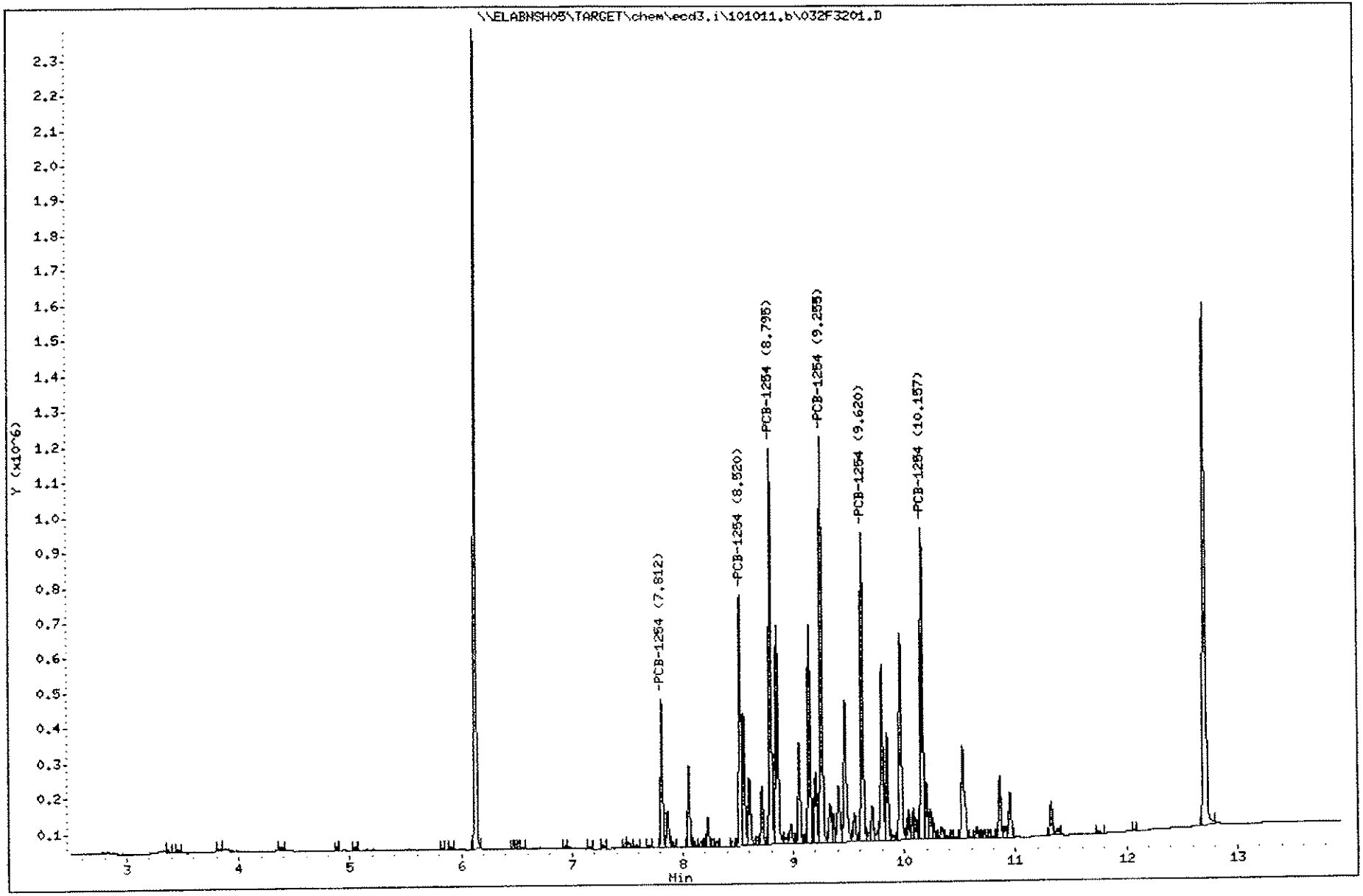
RT	EXP RT	DLT RT	RESPONSE	AMOUNTS CAL-AMT (ng/mL)	AMOUNTS ON-COL (ng/mL)	TARGET RANGE	RATIO
34 PCB-1254					CAS #: 11097-69-1		
9.255	9.255	(0.000)	1618761	750.000	740.1	80.00- 120.00	100.00
7.812	7.812	(0.000)	532395	750.000	728.0	26.31- 39.47	32.89
8.520	8.520	(0.000)	988183			48.84- 73.25	61.05
8.795	8.795	(0.000)	@1528776	750.000	728.4	75.55- 113.33	94.44
9.620	9.620	(0.000)	1250238	750.000	733.5	61.79- 92.68	77.23
10.157	10.157	(0.000)	1334354	750.000 X	735.2	65.94- 98.92	82.43
		Average of Peak Amounts =			733.1		

Data File: \\ELABNSH05\TARGET\chem\ecd3.i\101011.b\032F3201.D
Date : 10-OCT-2011 21:00
Client ID:
Sample Info: SEQ-CALA

Column phase: ZB MR-1

Instrument: ecd3.i

Operator: EM
Column diameter: 0.32



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10/12/11

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Laboratory Name

SW-846 METHODS 8081A/8082

Data file : \\ELABNSH05\TARGET\chem\ecd3.i\101011.b\033F3301.D
Lab Smp Id: SEQ-CALB
Inj Date : 10-OCT-2011 21:19
Operator : EM Inst ID: ecd3.i
Smp Info : SEQ-CALB
Misc Info : ;;;;;;AR1254.sub
Comment :
Method : \\ELABNSH05\TARGET\chem\ecd3.i\101011.b\8081_82F.m
Meth Date : 11-Oct-2011 23:18 spatrona Quant Type: ESTD
Cal Date : 10-AUG-2011 19:35 Cal File: 002F0101.D
Als bottle: 33 Calibration Sample, Level: 2
Dil Factor: 1.00000
Integrator: Falcon Compound Sublist: AR1254.sub
Target Version: 4.04 Sample Matrix: None
Processing Host: TARGET14_VM

RT	EXP RT	DLT RT	RESPONSE	AMOUNTS CAL-AMT (ng/mL)	AMOUNTS ON-COL (ng/mL)	TARGET RANGE	RATIO
34 PCB-1254					CAS #: 11097-69-1		
9.253	9.253	(0.000)	2132445	1000.00	974.9	80.00- 120.00	100.00
7.810	7.810	(0.000)	@ 696675	1000.00	952.7	26.14- 39.20	32.67
8.520	8.520	(0.000)	1292172			48.48- 72.71	60.60
8.795	8.795	(0.000)	2013552	1000.00	959.4	75.54- 113.31	94.42
9.620	9.620	(0.000)	1633620	1000.00	958.5	61.29- 91.93	76.61
10.158	10.158	(0.000)	1750760	1000.00	964.6	65.68- 98.52	82.10

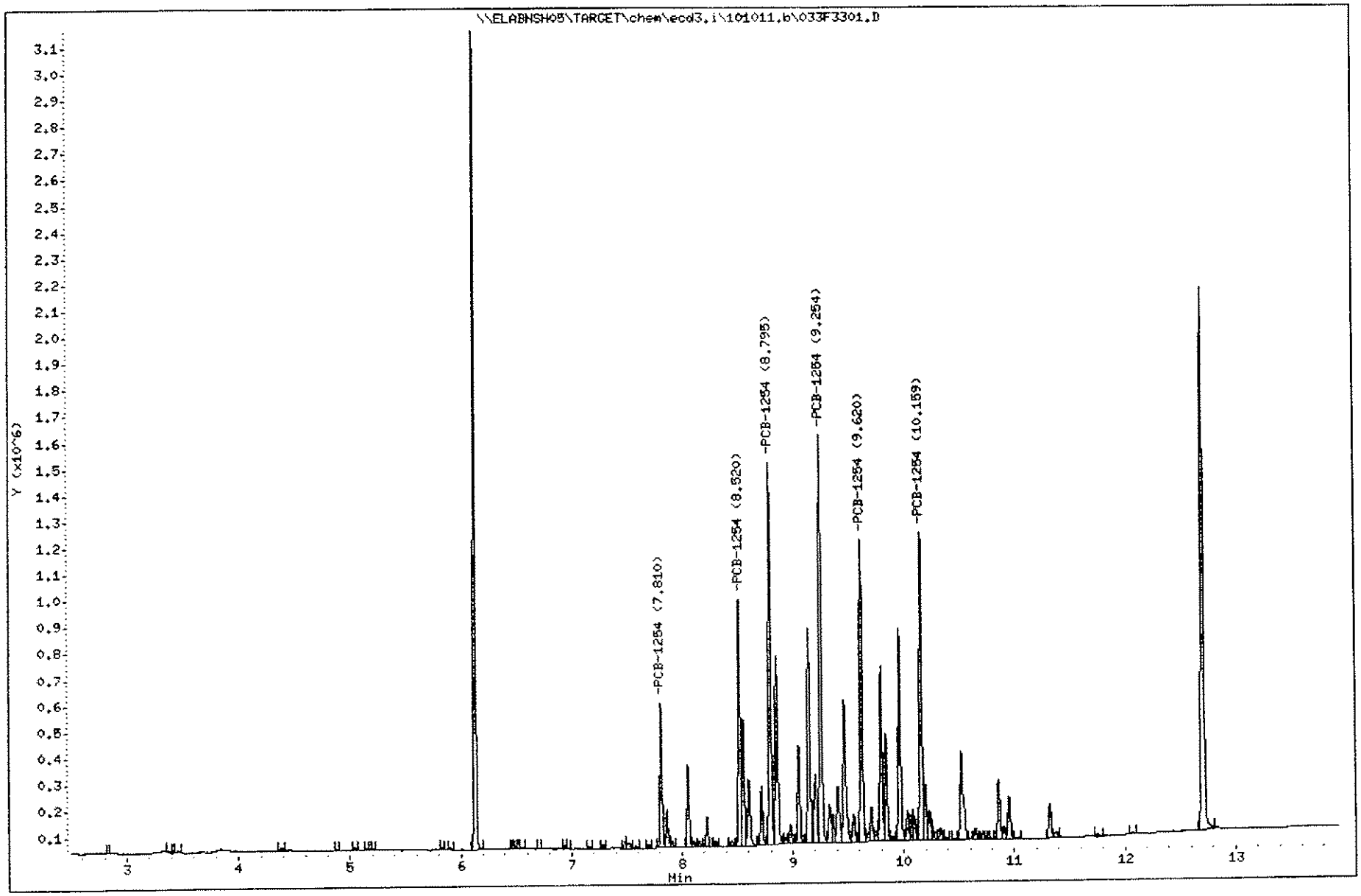
Average of Peak Amounts = 962

Data File: \\ELABNSH05\TARGET\chem\ecd3.i\101011.b\033F3301.D
Date : 10-OCT-2011 21:19
Client ID:
Sample Info: SEQ-CALB

Instrument: ecd3.i

Operator: EM
Column diameter: 0.32

Column phase: ZB MR-1



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Laboratory Name 10/12/11

J.H. 10.12.11

SW-846 METHODS 8081A/8082

Data file : \\ELABNSH05\TARGET\chem\ecd3.i\101011.b\034F3401.D
Lab Smp Id: SEQ-CALC
Inj Date : 10-OCT-2011 21:37
Operator : EM Inst ID: ecd3.i
Smp Info : SEQ-CALC
Misc Info : ;;;;;;AR1254.sub
Comment :
Method : \\ELABNSH05\TARGET\chem\ecd3.i\101011.b\8081_82F.m
Meth Date : 11-Oct-2011 23:18 spatrona Quant Type: ESTD
Cal Date : 10-AUG-2011 19:35 Cal File: 002F0101.D
Als bottle: 34 Calibration Sample, Level: 1
Dil Factor: 1.00000
Integrator: Falcon Compound Sublist: AR1254.sub
Target Version: 4.04 Sample Matrix: None
Processing Host: TARGET14_VM

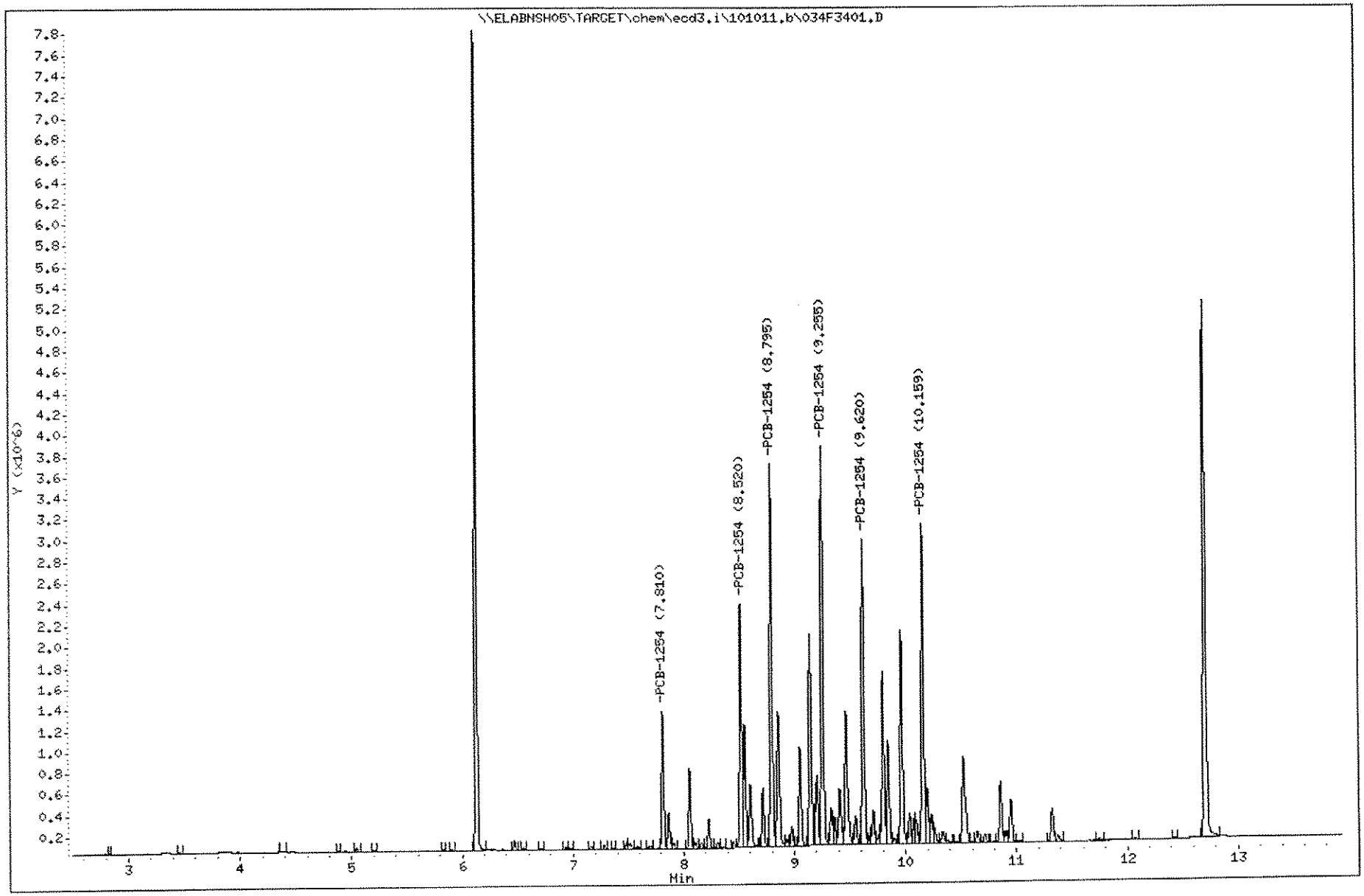
RT	EXP RT	DLT RT	RESPONSE	AMOUNTS CAL-AMT (ng/mL)	AMOUNTS ON-COL (ng/mL)	TARGET RANGE	RATIO
34 PCB-1254					CAS #: 11097-69-1		
9.255	9.255	(0.000)	@5323713	2500.00	2434	80.00- 120.00	100.00
7.810	7.810	(0.000)	1697913	2500.00	2322	25.51- 38.27	31.89
8.520	8.520	(0.000)	3141552			47.21- 70.81	59.01
8.795	8.795	(0.000)	4987038	2500.00	2376	74.94- 112.41	93.68
9.620	9.620	(0.000)	4085906	2500.00	2397	61.40- 92.10	76.75
10.158	10.158	(0.000)	4387588	2500.00 X	2417	65.93- 98.90	82.42
		Average of Peak Amounts =			2389		

Data File: \\ELABNSH05\TARGET\chem\ecd3.i\101011.b\034F3401.D
Date : 10-OCT-2011 21:37
Client ID:
Sample Info: SEQ-CALC

Instrument: ecd3.i

Operator: EM

Column phase: ZB MR-1
Column diameter: 0.32



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J.H. 10.12.11

Laboratory Name

SW-846 METHODS 8081A/8082

Data file : \\ELABNSH05\TARGET\chem\ecd3.i\101011.b\035F3501.D
Lab Smp Id: SEQ-ICV2
Inj Date : 10-OCT-2011 21:56
Operator : EM
Inst ID: ecd3.i
Smp Info : SEQ-ICV2
Misc Info : ;;;;;;AR1254.sub
Comment :
Method : \\ELABNSH05\TARGET\chem\ecd3.i\101011.b\8081_82F.m
Meth Date : 11-Oct-2011 23:18 spatrona
Quant Type: ESTD
Cal Date : 10-AUG-2011 19:35
Cal File: 002F0101.D
Als bottle: 35
Continuing Calibration Sample
Dil Factor: 1.00000
Integrator: Falcon
Compound Sublist: AR1254.sub
Target Version: 4.04
Sample Matrix: None
Processing Host: TARGET14_VM

RT	EXP RT	DLT RT	RESPONSE	AMOUNTS CAL-AMT (ng/mL)	ON-COL (ng/mL)	TARGET RANGE	RATIO
34 PCB-1254					CAS #: 11097-69-1		
9.254	9.254	(0.000)	2400516	1000.00	1098	80.00- 120.00	100.00
7.811	7.811	(0.000)	775185	1000.00	1060	25.83- 38.75	32.29
8.519	8.519	(0.000)	1452629			48.41- 72.62	60.51
8.794	8.794	(0.000)	2267501	1000.00	1080	75.57- 113.35	94.46
9.621	9.621	(0.000)	1860656	1000.00	1092	62.01- 93.01	77.51
10.159	10.159	(0.000)	1997703	1000.00	1101	66.58- 99.86	83.22
		Average of Peak Amounts =			1086		

Data File: \\ELABNSH05\TARGET\chem\ecd3.i\101011.b\035F3501.D

Page 2

Date : 10-OCT-2011 21:56

Client ID:

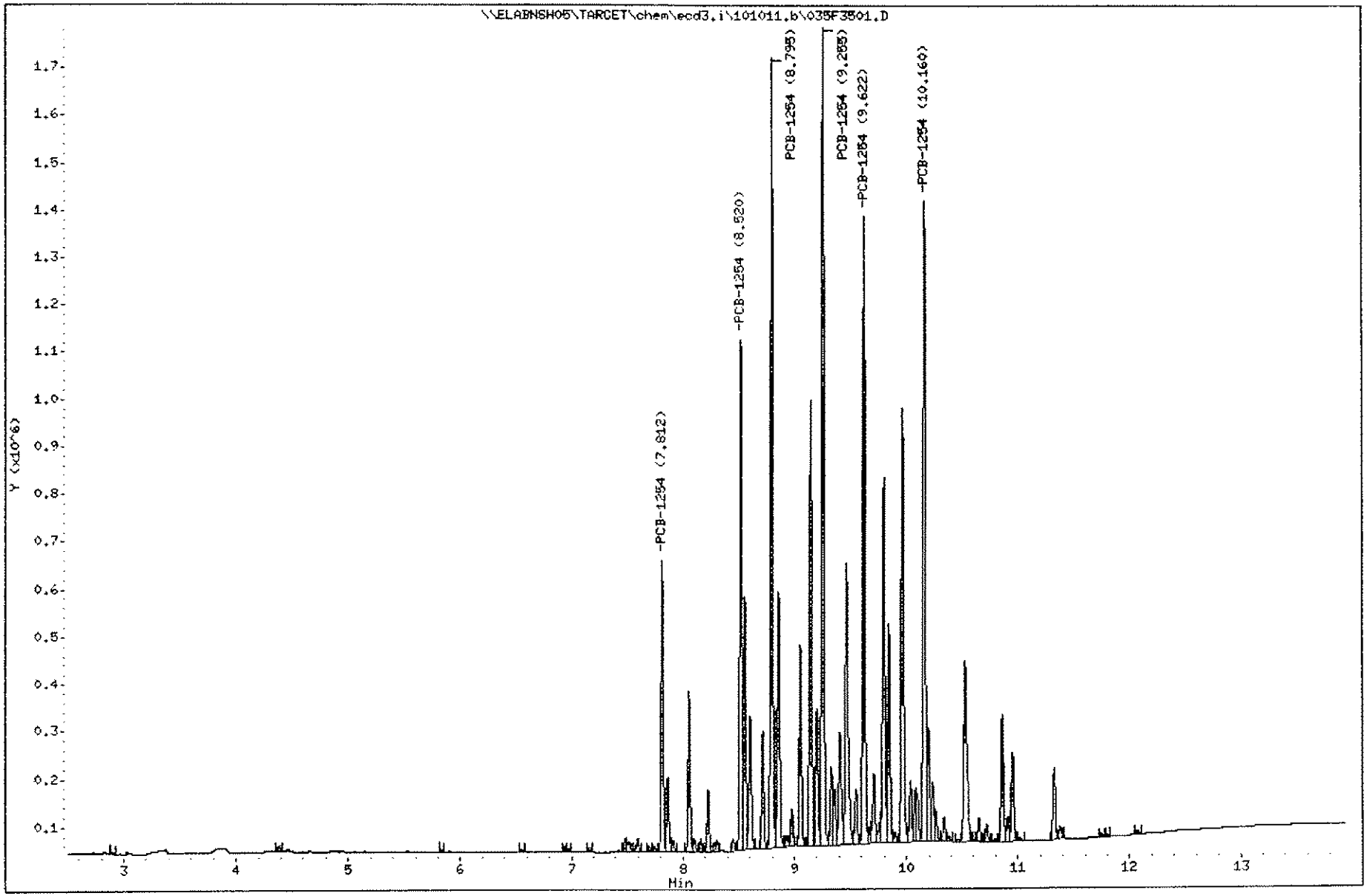
Instrument: ecd3.i

Sample Info: SEQ-ICV2

Operator: EM

Column phase: ZB MR-1

Column diameter: 0.32



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Laboratory Name 10/12/11

SW-846 METHODS 8081A/8082

10.12.11

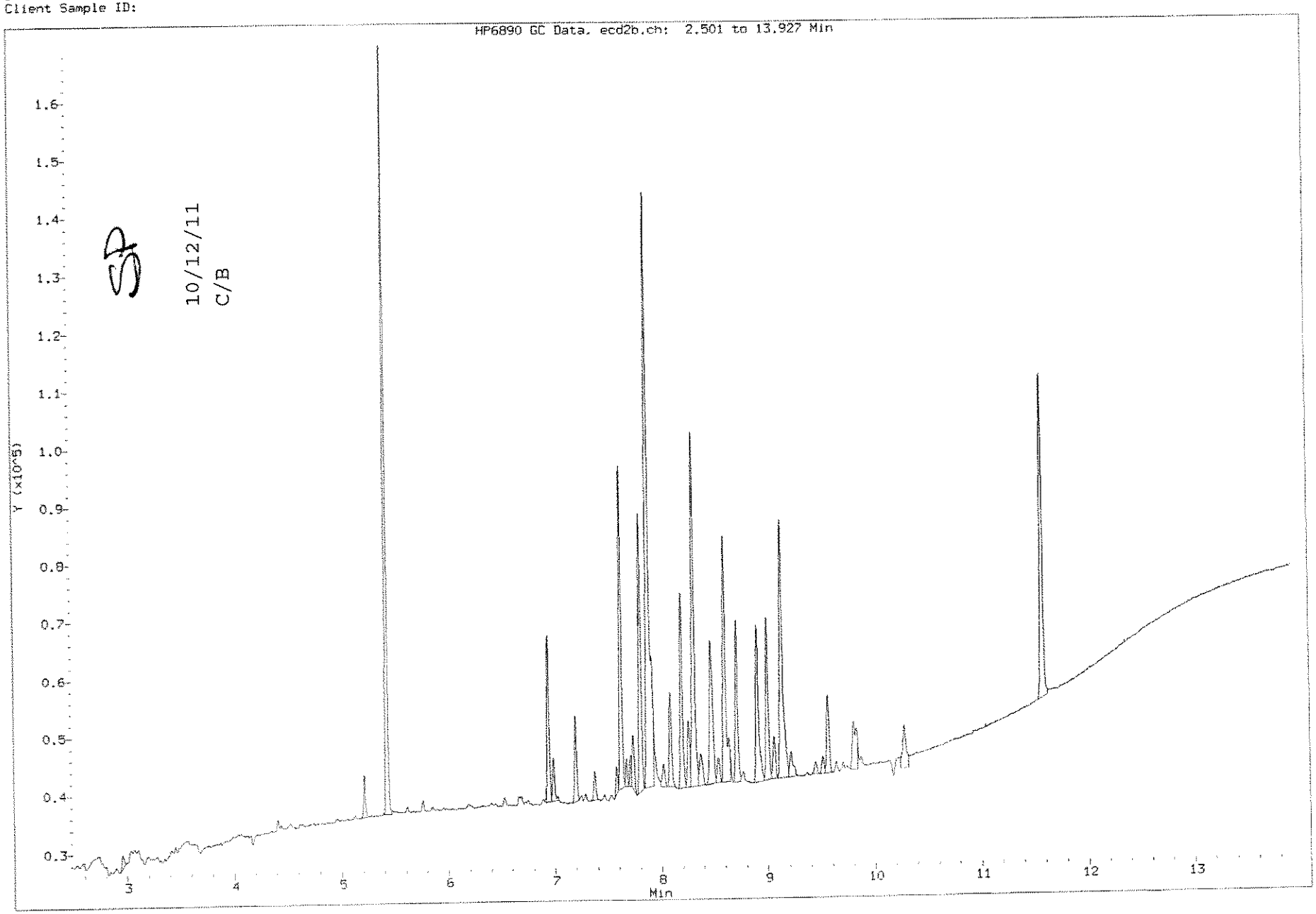
Data file : \\ELABNSH05\TARGET\chem\ecd3.i\101011.b\029R2901.D
Lab Smp Id: SEQ-CAL7
Inj Date : 10-OCT-2011 20:03
Operator : EM Inst ID: ecd3.i
Smp Info : SEQ-CAL7
Misc Info : ;;;;;;AR1254.sub
Comment :
Method : \\ELABNSH05\TARGET\chem\ecd3.i\101011.b\8081_82R.m
Meth Date : 11-Oct-2011 23:17 spatrona Quant Type: ESTD
Cal Date : 10-AUG-2011 19:35 Cal File: 002R0101.D
Als bottle: 29 Calibration Sample, Level: 6
Dil Factor: 1.00000
Integrator: Falcon Compound Sublist: AR1254.sub
Target Version: 4.04 Sample Matrix: None
Processing Host: TARGET14_VM

RT	EXP RT	DLT RT	RESPONSE	AMOUNTS CAL-AMT (ng/mL)	AMOUNTS ON-COL (ng/mL)	TARGET RANGE	RATIO
34 PCB-1254 [2C]					CAS #: 11097-69-1		
8.309	8.309	(0.000)	@ 104710	50.0000	59.14	80.00- 120.00	100.00(M)
7.195	7.195	(0.000)	20579			15.72- 23.58	19.65
7.624	7.624	(0.000)	85600	50.0000	60.47	65.40- 98.10	81.75
7.805	7.805	(0.000)	73182	50.0000	60.24	55.91- 83.87	69.89
8.474	8.474	(0.000)	55252	50.0000	60.60	42.21- 63.32	52.77
9.132	9.132	(0.000)	92137	50.0000 X	61.16	70.39- 105.59	87.99
		Average of Peak Amounts =			60.32		

QC Flag Legend

M - Compound response manually integrated.

Data File: \\ELABNSH05\TARGET\chem\ecd3.i\101011.b\029R2901.D
Injection Date: 10-OCT-2011 20:03
Instrument: ecd3.i
Client Sample ID:



905

1110003

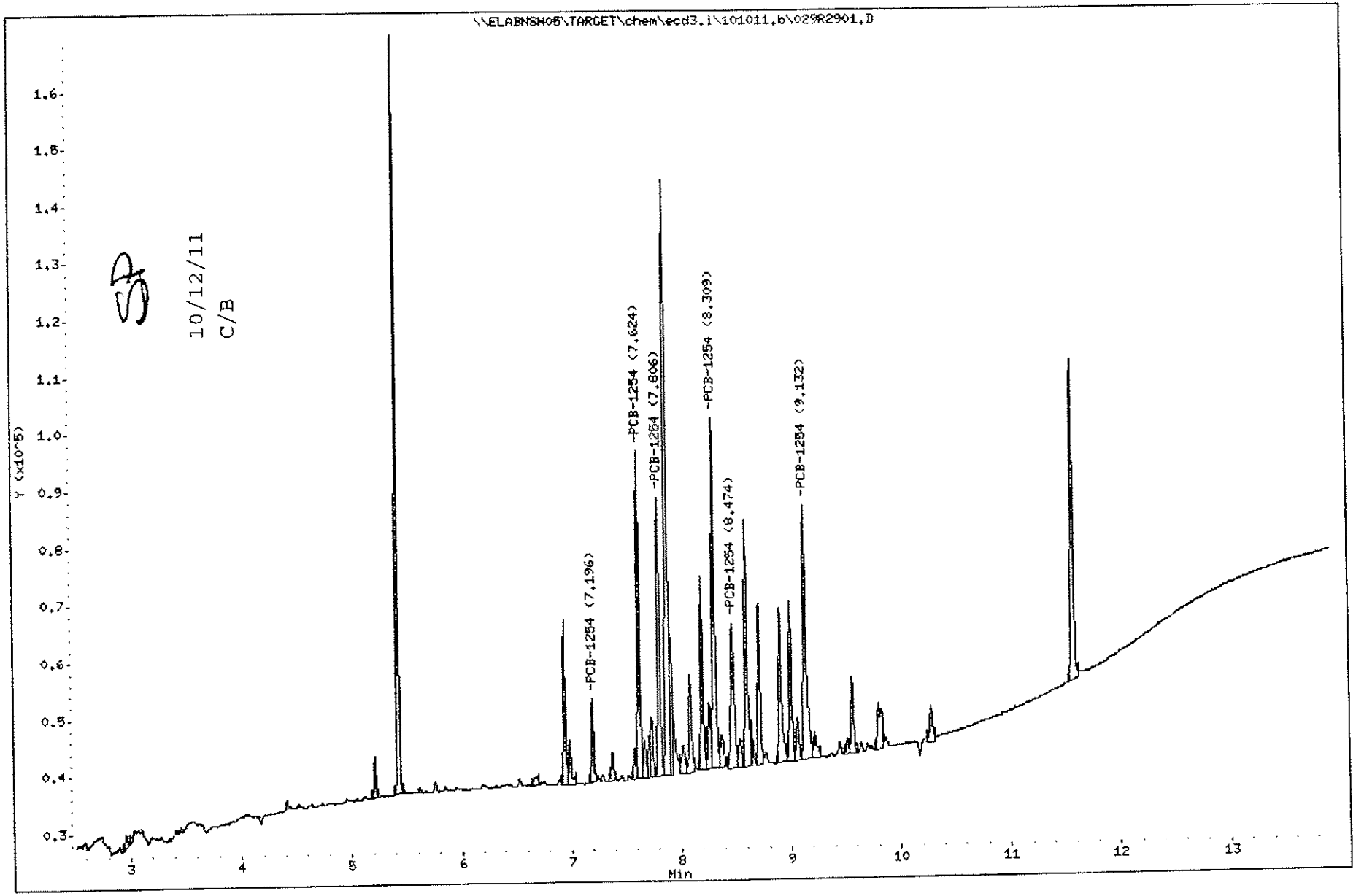
Data File: \\ELABNSH05\TARGET\chem\ecd3.i\101011.b\029R2901.D
Date : 10-OCT-2011 20:03
Client ID:
Sample Info: SEQ-CAL7

Column phase: ZB MR-2

10.12.11

Instrument: ecd3.i

Operator: EH
Column diameter: 0.32



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J.H. 10.12.11

Laboratory Name

SW-846 METHODS 8081A/8082

Data file : \\ELABNSH05\TARGET\chem\ecd3.i\101011.b\030R3001.D
Lab Smp Id: SEQ-CAL8
Inj Date : 10-OCT-2011 20:22
Operator : EM Inst ID: ecd3.i
Smp Info : SEQ-CAL8
Misc Info : ;;;;;;AR1254.sub
Comment :
Method : \\ELABNSH05\TARGET\chem\ecd3.i\101011.b\8081_82R.m
Meth Date : 11-Oct-2011 23:17 spatrona Quant Type: ESTD
Cal Date : 10-AUG-2011 19:35 Cal File: 002R0101.D
Als bottle: 30 Calibration Sample, Level: 5
Dil Factor: 1.00000
Integrator: Falcon Compound Sublist: AR1254.sub
Target Version: 4.04 Sample Matrix: None
Processing Host: TARGET14_VM

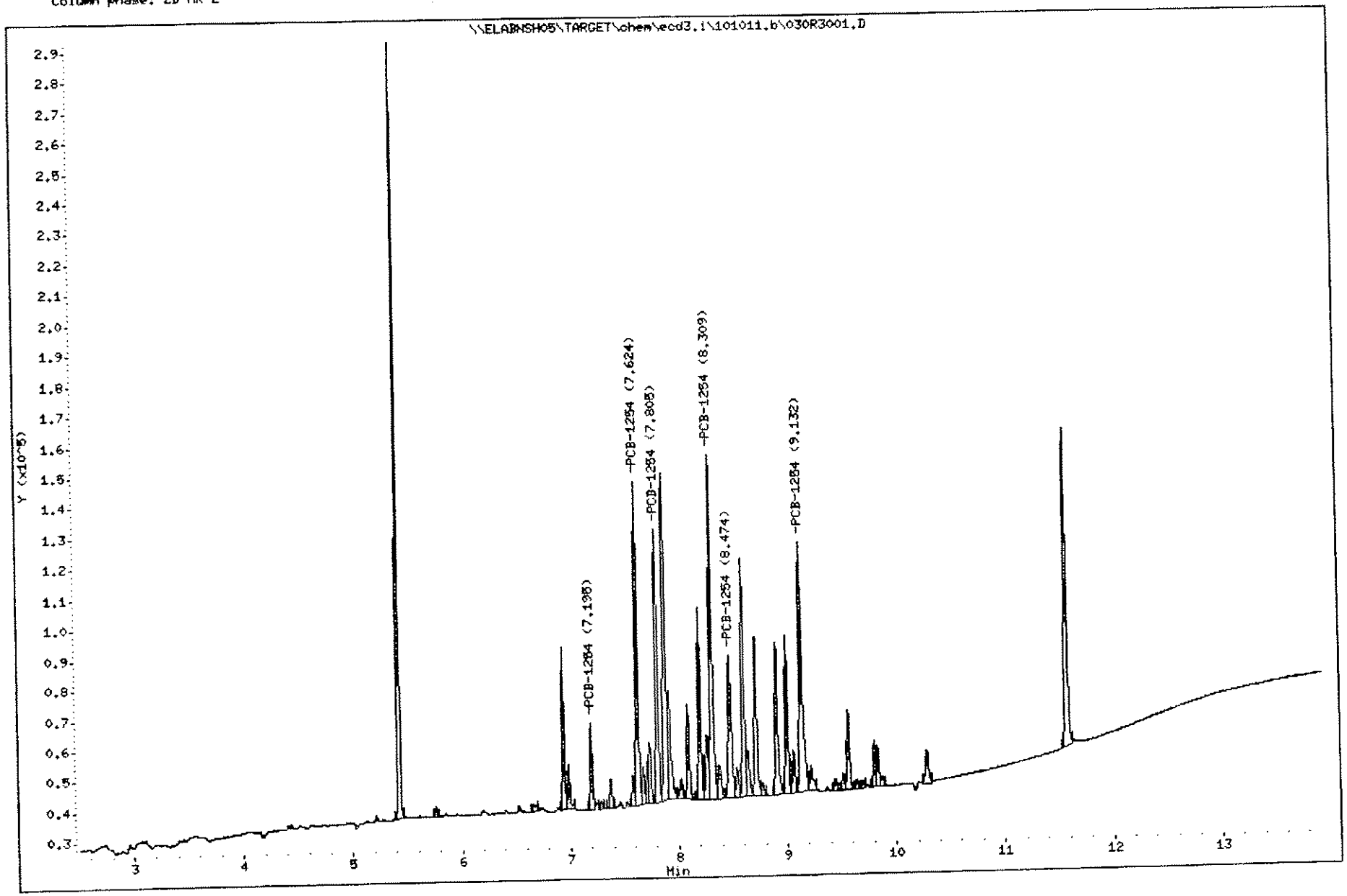
RT	EXP RT	DLT RT	RESPONSE	AMOUNTS CAL-AMT (ng/mL)	AMOUNTS ON-COL (ng/mL)	TARGET RANGE	RATIO
34 PCB-1254 [2C]					CAS #: 11097-69-1		
8.308	8.308	(0.000)	197561	100.000	111.6	80.00- 120.00	100.00
7.195	7.195	(0.000)	39904			16.16- 24.24	20.20
7.623	7.623	(0.000)	158889	100.000	112.2	64.34- 96.51	80.43
7.805	7.805	(0.000)	133800	100.000	110.1	54.18- 81.27	67.73
8.473	8.473	(0.000)	101059	100.000	110.8	40.92- 61.38	51.15
9.132	9.132	(0.000)	@ 168664	100.000	112.0	68.30- 102.45	85.37
		Average of Peak Amounts =			111.4		

Data File: \\ELABNSH05\TARGET\chem\ecd3.i\101011.b\030R3001.D
Date : 10-OCT-2011 20:22
Client ID:
Sample Info: SEQ-CAL8

Column phase: ZB MR-2

Instrument: ecd3.i

Operator: EM
Column diameter: 0.32



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10/12/11

J.H. 10.12.11

Laboratory Name

SW-846 METHODS 8081A/8082

Data file : \\ELABNSH05\TARGET\chem\ecd3.i\101011.b\031R3101.D
Lab Smp Id: SEQ-CAL9
Inj Date : 10-OCT-2011 20:41
Operator : EM
Inst ID: ecd3.i
Smp Info : SEQ-CAL9
Misc Info : ;;;;;;AR1254.sub
Comment :
Method : \\ELABNSH05\TARGET\chem\ecd3.i\101011.b\8081_82R.m
Meth Date : 11-Oct-2011 23:17 spatrona
Quant Type: ESTD
Cal Date : 10-AUG-2011 19:35
Cal File: 002R0101.D
Als bottle: 31
Calibration Sample, Level: 4
Dil Factor: 1.00000
Integrator: Falcon
Compound Sublist: AR1254.sub
Target Version: 4.04
Sample Matrix: None
Processing Host: TARGET14_VM

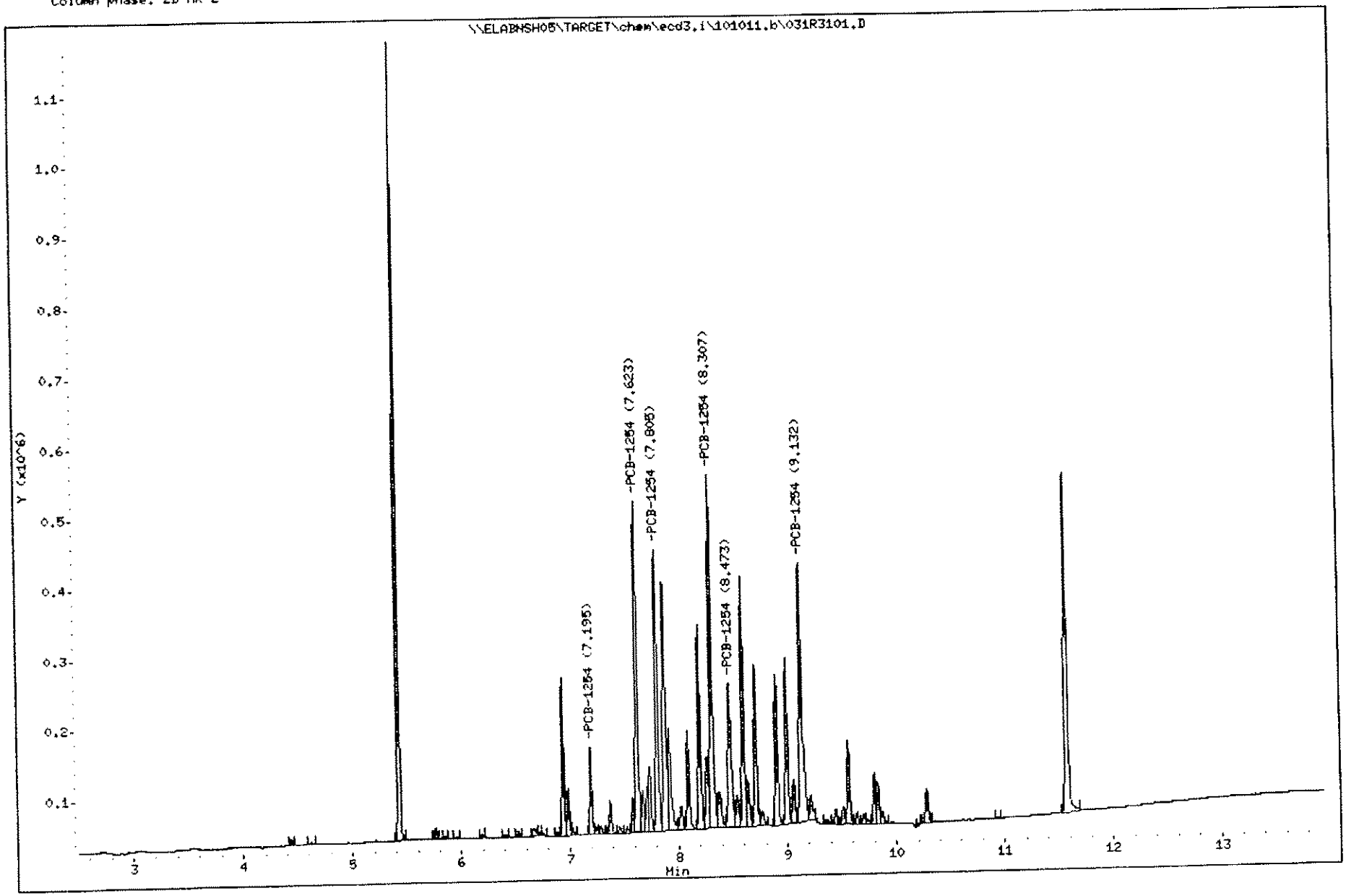
RT	EXP RT	DLT RT	RESPONSE	AMOUNTS CAL-AMT (ng/mL)	AMOUNTS ON-COL (ng/mL)	TARGET RANGE	RATIO
34 PCB-1254 [2C]					CAS #: 11097-69-1		
8.306	8.306	(0.000)	886357	500.000	500.6	80.00- 120.00	100.00
7.194	7.194	(0.000)	176509			15.93- 23.90	19.91
7.623	7.623	(0.000)	707812	500.000	500.0	63.89- 95.83	79.86
7.804	7.804	(0.000)	609909	500.000	502.1	55.05- 82.57	68.81
8.473	8.473	(0.000)	@ 455412	500.000	499.5	41.10- 61.66	51.38
9.131	9.131	(0.000)	747398	500.000	496.2	67.46- 101.19	84.32
		Average of Peak Amounts =			499.7		

Data File: \\ELABNSH05\TARGET\chem\ecd3.i\101011.b\031R3101.D
Date : 10-OCT-2011 20:41
Client ID:
Sample Info: SEQ-CAL9

Column phase: ZB MR-2

Instrument: ecd3.i

Operator: EH
Column diameter: 0.32



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10/12/11

J.H. 10.12.11

Laboratory Name

SW-846 METHODS 8081A/8082

Data file : \\ELABNSH05\TARGET\chem\ecd3.i\101011.b\032R3201.D
Lab Smp Id: SEQ-CALA
Inj Date : 10-OCT-2011 21:00
Operator : EM
Inst ID: ecd3.i
Smp Info : SEQ-CALA
Misc Info : ;;;;;;AR1254.sub
Comment :
Method : \\ELABNSH05\TARGET\chem\ecd3.i\101011.b\8081_82R.m
Meth Date : 11-Oct-2011 23:18 spatrona
Quant Type: ESTD
Cal Date : 10-AUG-2011 19:35
Cal File: 002R0101.D
Als bottle: 32
Calibration Sample, Level: 3
Dil Factor: 1.00000
Integrator: Falcon
Compound Sublist: AR1254.sub
Target Version: 4.04
Sample Matrix: None
Processing Host: TARGET14_VM

RT	EXP RT	DLT RT	RESPONSE	AMOUNTS CAL-AMT (ng/mL)	AMOUNTS ON-COL (ng/mL)	TARGET RANGE	RATIO
34 PCB-1254 [2C]					CAS #: 11097-69-1		
8.308	8.308	(0.000)	1270406	750.000	717.6	80.00- 120.00	100.00
7.194	7.194	(0.000)	252496			15.90- 23.85	19.88
7.621	7.621	(0.000)	1001089	750.000	707.2	63.04- 94.56	78.80
7.804	7.804	(0.000)	@ 865401	750.000	712.4	54.50- 81.74	68.12
8.473	8.473	(0.000)	647852	750.000	710.5	40.80- 61.19	51.00
9.131	9.131	(0.000)	1052645	750.000	698.8	66.29- 99.43	82.86
		Average of Peak Amounts =			709.3		

Data File: \\ELABNSH05\TARGET\chem\ecd3.i\101011.b\032R3201.D

Date : 10-OCT-2011 21:00

Client ID:

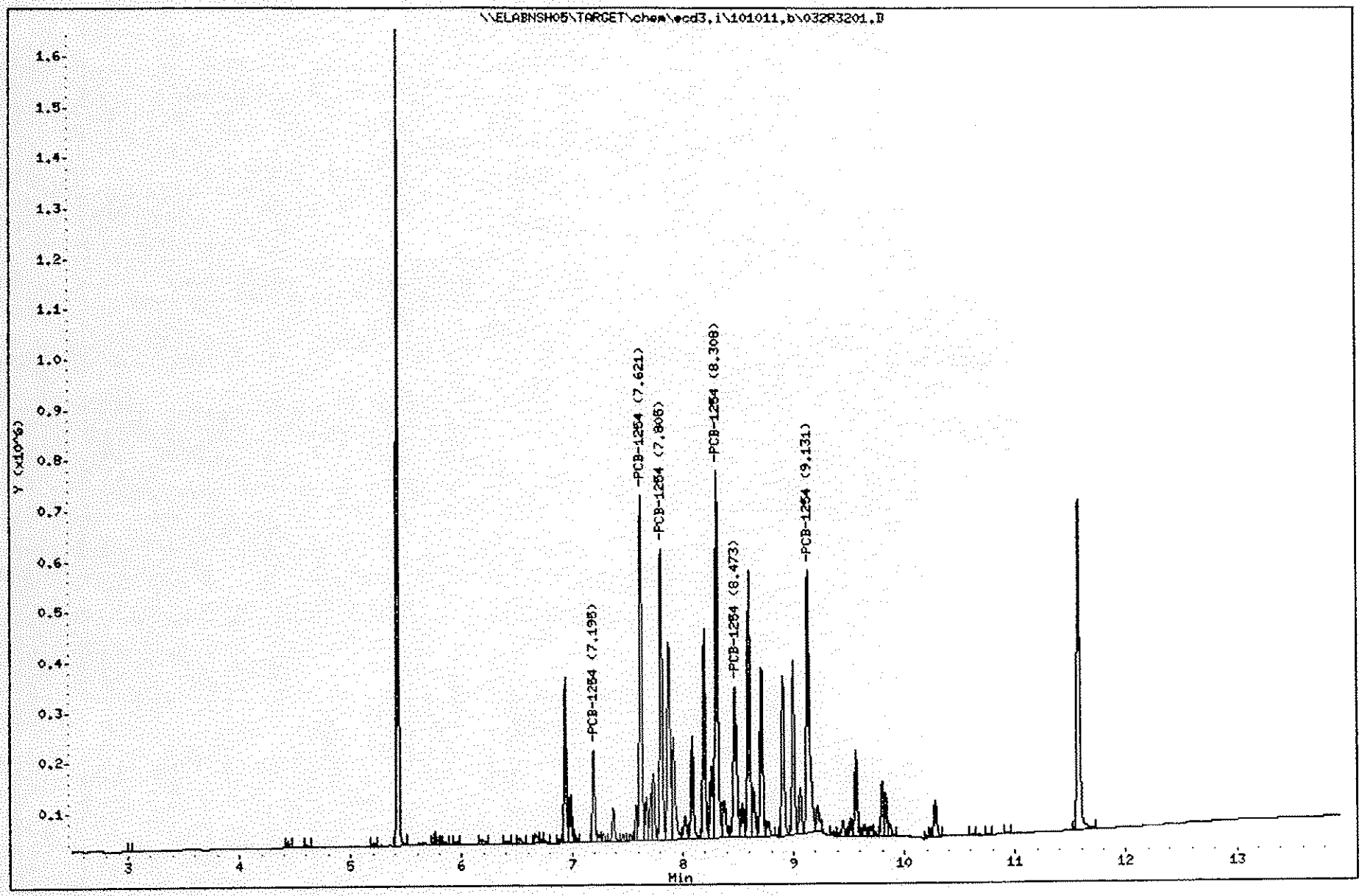
Sample Info: SEQ-CALA

Column phase: ZB HR-2

Instrument: ecd3.i

Operator: EM

Column diameter: 0.32



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Laboratory Name

SW-846 METHODS 8081A/8082

10.12.11

Data file : \\ELABNSH05\TARGET\chem\ecd3.i\101011.b\033R3301.D
Lab Smp Id: SEQ-CALB
Inj Date : 10-OCT-2011 21:19
Operator : EM
Smp Info : SEQ-CALB
Misc Info : ;;;;;;AR1254.sub
Comment :
Method : \\ELABNSH05\TARGET\chem\ecd3.i\101011.b\8081_82R.m
Meth Date : 11-Oct-2011 23:18 spatrona
Cal Date : 10-AUG-2011 19:35
Als bottle: 33
Dil Factor: 1.00000
Integrator: Falcon
Target Version: 4.04
Processing Host: TARGET14_VM

Inst ID: ecd3.i

Quant Type: ESTD
Cal File: 002R0101.D
Calibration Sample, Level: 2

Compound Sublist: AR1254.sub
Sample Matrix: None

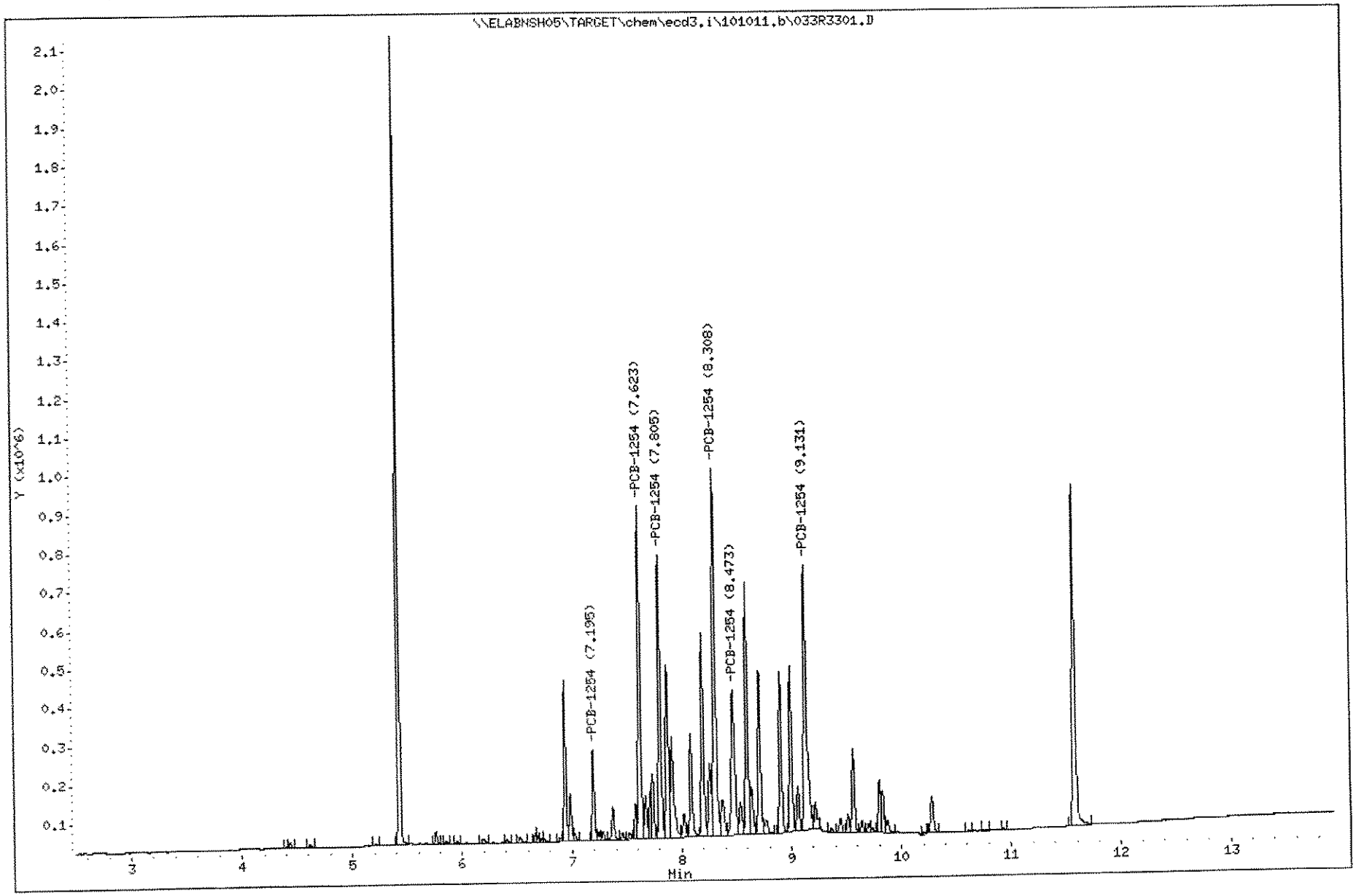
RT	EXP RT	DLT RT	RESPONSE	AMOUNTS CAL-AMT (ng/mL)	AMOUNTS ON-COL (ng/mL)	TARGET RANGE	RATIO
34 PCB-1254 [2C]					CAS #: 11097-69-1		
8.307	8.307	(0.000)	1620706	1000.00	915.4	80.00- 120.00	100.00
7.194	7.194	(0.000)	325545			16.07- 24.10	20.09
7.622	7.622	(0.000)	@1290341	1000.00	911.5	63.69- 95.54	79.62
7.804	7.804	(0.000)	1115093	1000.00	918.0	55.04- 82.56	68.80
8.472	8.472	(0.000)	835265	1000.00	916.1	41.23- 61.84	51.54
9.131	9.131	(0.000)	1360150	1000.00	902.9	67.14- 100.71	83.92
		Average of Peak Amounts =			912.8		

Data File: \\ELABNSH05\TARGET\chem\ecd3.i\101011.b\033R3301.D
Date : 10-OCT-2011 21:19
Client ID:
Sample Info: SEQ-CALB

Column phase: ZB MR-2

Instrument: ecd3.i

Operator: EM
Column diameter: 0.32



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Laboratory Name

SW-846 METHODS 8081A/8082

10.12.11

Data file : \\ELABNSH05\TARGET\chem\ecd3.i\101011.b\034R3401.D
Lab Smp Id: SEQ-CALC
Inj Date : 10-OCT-2011 21:37
Operator : EM
Inst ID: ecd3.i
Smp Info : SEQ-CALC
Misc Info : ;;;;;;AR1254.sub
Comment :
Method : \\ELABNSH05\TARGET\chem\ecd3.i\101011.b\8081_82R.m
Meth Date : 11-Oct-2011 23:18 spatrona
Quant Type: ESTD
Cal Date : 10-AUG-2011 19:35
Cal File: 002R0101.D
Als bottle: 34
Calibration Sample, Level: 1
Dil Factor: 1.00000
Integrator: Falcon
Compound Sublist: AR1254.sub
Target Version: 4.04
Sample Matrix: None
Processing Host: TARGET14_VM

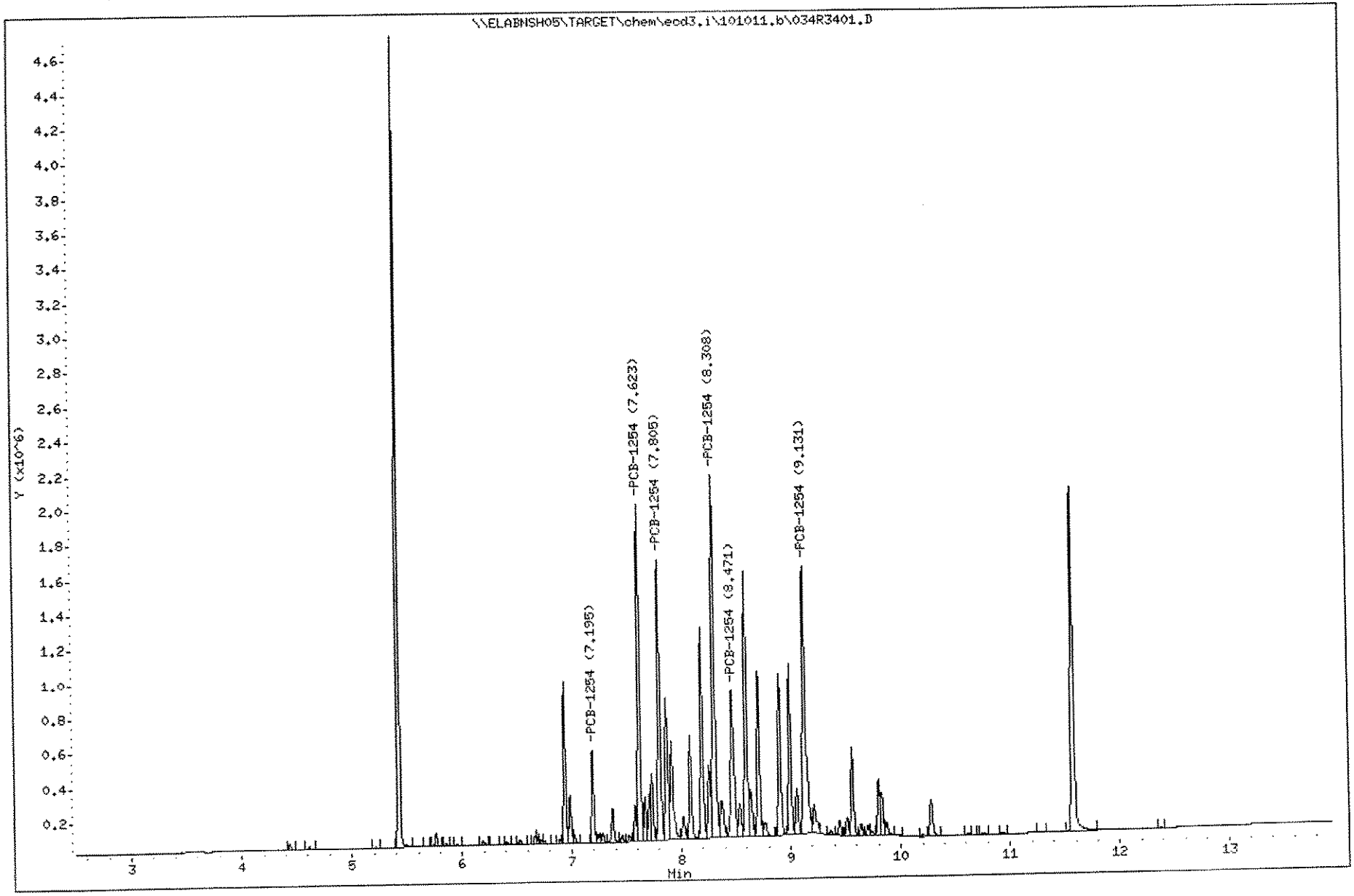
RT	EXP RT	DLT RT	RESPONSE	AMOUNTS CAL-AMT (ng/mL)	ON-COL (ng/mL)	TARGET RANGE	RATIO
34 PCB-1254 [2C]					CAS #: 11097-69-1		
8.307	8.307	(0.000)	@ 3664217	2500.00	2070	80.00- 120.00	100.00
7.194	7.194	(0.000)	745821			16.28- 24.43	20.35
7.622	7.622	(0.000)	2880559	2500.00	2035	62.89- 94.34	78.61
7.804	7.804	(0.000)	2494990	2500.00	2054	54.47- 81.71	68.09
8.471	8.471	(0.000)	1862636	2500.00	2043	40.67- 61.00	50.83
9.131	9.131	(0.000)	3126094	2500.00	2075	68.25- 102.38	85.31
		Average of Peak Amounts =			2055		

Data File: \\ELABNSH05\TARGET\chem\ecd3.i\101011.b\034R3401.D
Date : 10-OCT-2011 21:37
Client ID:
Sample Info: SEQ-CALC

Instrument: ecd3.i

Operator: EM
Column diameter: 0.32

Column phase: ZB MR-2



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Laboratory Name

10/12/11

ICV ~~CONTINUING CALIBRATION~~ COMPOUNDS

J.H. 10.12.11

Instrument ID: ecd3.i
Lab File ID: 035R3501.D
Analysis Type:
Lab Sample ID: SEQ-ICV2
Injection Date: 10-OCT-2011 21:56
Init. Cal. Date(s): 01-JUL-2010 10-OCT-2011
Init. Cal. Times: 08:58 21:37
Quant Type: ESTD
Method: \\ELABNSH05\TARGET\chem\ecd3.i\101011.b\8081_82R.m

COMPOUND	RRF	RF100	MIN RRF	%D	MAX %D	
34 PCB-1254(1)	1770	1821	0.010	2.8	20.0	
(2)	++++	++++	0.010	++++	20.0	<-
(3)	1416	1433	0.010	1.2	20.0	
(4)	1215	1243	0.010	2.3	20.0	
(5)	912	938	0.010	2.9	20.0	
(6)	1506	1586	0.010	5.3	20.0	

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Laboratory Name 10/12/11

SW-846 METHODS 8081A/8082

D.H. 10.12.11

Data file : \\ELABNSH05\TARGET\chem\ecd3.i\101011.b\035R3501.D
Lab Smp Id: SEQ-ICV2
Inj Date : 10-OCT-2011 21:56
Operator : EM
Smp Info : SEQ-ICV2
Misc Info : ;;;;;;AR1254.sub
Comment :
Method : \\ELABNSH05\TARGET\chem\ecd3.i\101011.b\8081_82R.m
Meth Date : 11-Oct-2011 23:18 spatrona
Cal Date : 10-AUG-2011 19:35
Als bottle: 35
Dil Factor: 1.00000
Integrator: Falcon
Target Version: 4.04
Processing Host: TARGET14_VM

Inst ID: ecd3.i

Quant Type: ESTD
Cal File: 002R0101.D
Continuing Calibration Sample

Compound Sublist: AR1254.sub
Sample Matrix: None

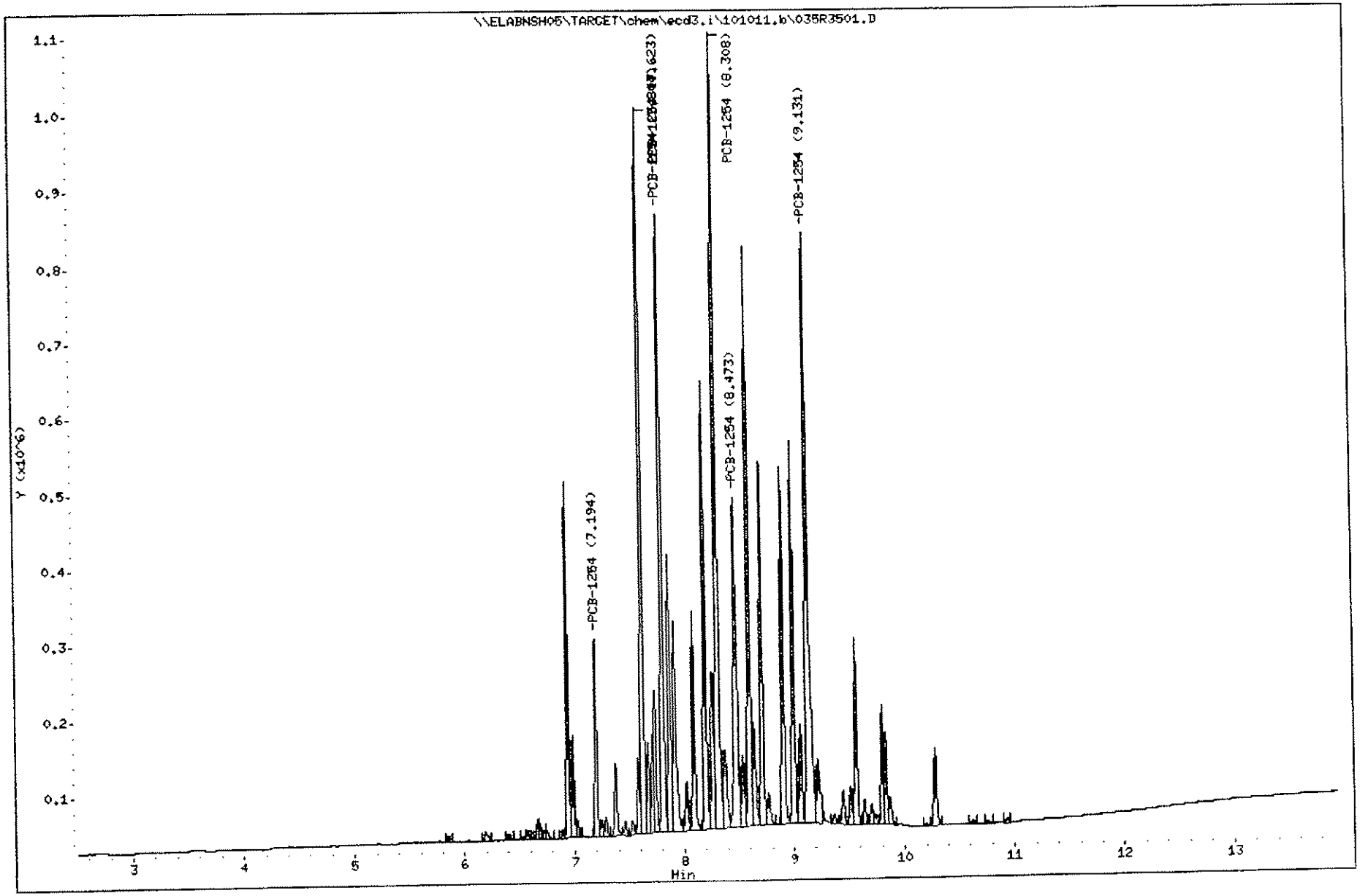
RT	EXP RT	DLT RT	RESPONSE	AMOUNTS CAL-AMT (ng/mL)	AMOUNTS ON-COL (ng/mL)	TARGET RANGE	RATIO
34 PCB-1254 (2C)					CAS #: 11097-69-1		
8.307	8.307	(0.000)	1820825	1000.00	1028	80.00- 120.00	100.00
7.194	7.194	(0.000)	363716			15.98- 23.97	19.98
7.622	7.622	(0.000)	1432582	1000.00	1012	62.94- 94.41	78.68
7.804	7.804	(0.000)	1242781	1000.00	1023	54.60- 81.90	68.25
8.472	8.472	(0.000)	938068	1000.00	1029	41.22- 61.82	51.52
9.130	9.130	(0.000)	1585708	1000.00	1053	69.67- 104.50	87.09
		Average of Peak Amounts =			1029		

Data File: \\ELABNSH05\TARGET\chem\ecd3.i\101011.b\035R3501.D
Date : 10-OCT-2011 21:56
Client ID:
Sample Info: SEQ-ICV2

Column phase: ZB MR-2

Instrument: ecd3.i

Operator: EH
Column diameter: 0.32



Sequence: C:\HPCHEM\ECD3\SEQUENCE\101211.S\ECD.S\ HP.7F\8081_82 PG 403 Em 210

10.14.11

Sequence Table (Front/BACK Injector):

Quantification Part:

Line	Location	SampleName	SampleAmount	ISTDAmt	Multiplier	Dilution
1	Vial 1	Pest Primer				
2	Vial 2	SEQ-CCV1(1660) 11J0557				
3	Vial 3	SEQ-CCV2(1254) 11J0041				
4	Vial 4	1109182-19;CuA 1x				
5	Vial 5	1J04002-BLK1				
6	Vial 6	1J04002-BS1 — NOT NEEDED				
7	Vial 7	1J04002-BS2				
8	Vial 8	111003-01 1x				
9	Vial 9	111003-03				
10	Vial 10	111003-05				
11	Vial 11	111003-07				
12	Vial 12	111003-09				
13	Vial 13	111003-11				
14	Vial 14	111003-12				
15	Vial 15	1J04002-MS1				
16	Vial 16	1J04002-MSD1 > NOT NEEDED				
17	Vial 17	1J04002-MS2				
18	Vial 18	1J04002-MSD2				
19	Vial 19	111003-14				
20	Vial 20	1I29004-BLK1;CuA				
21	Vial 21	1I29004-BS1;CuA				
22	Vial 22	1109180-01;CuA 1x				
23	Vial 23	1I29004-MS1;CuA				
24	Vial 24	1I29004-MSD1;CuA				
25	Vial 25	SEQ-CCV3 (1660)				
26	Vial 26	SEQ-CCV4 (1254)				
27	Vial 27	1109180-02;CuA 1x				
28	Vial 28	1109180-03;CuA				
29	Vial 29	1109180-04;CuA				
30	Vial 30	1109180-05;CuA				
31	Vial 31	1109180-06;CuA				
32	Vial 32	1109180-07;CuA				
33	Vial 33	1109180-08;CuA				
34	Vial 34	1109180-09;CuA				
35	Vial 35	1109180-10;CuA				
36	Vial 36	1109180-11;CuA				
37	Vial 37	SEQ-CCV5(1660)				
38	Vial 38	SEQ-CCV6 (1254)				
39	Vial 39	1109180-12;CuA 1x				
40	Vial 40	1109180-13;CuA				
41	Vial 41	1109180-14;CuA				
42	Vial 42	1109180-15;CuA				
43	Vial 43	1109180-16;CuA				
44	Vial 44	1109180-17;CuA				
45	Vial 45	1109180-18;CuA				
46	Vial 46	1109180-19;CuA				
47	Vial 47	1109180-20;CuA				
48	Vial 48	1I29016-BLK1;CuA				
49	Vial 49	1I29016-BS1;CuA				
50	Vial 50	1109191-01;CuA 1x				
51	Vial 51	SEQ-CCV7(1660)				
52	Vial 52	SEQ-CCV8 (1254)				
53	Vial 53	1109191-02;CuA 1x				
54	Vial 54	1I29016-MS1;CuA				
55	Vial 55	1I29016-MSD1;CuA				
56	Vial 56	1109191-03;CuA				
57	Vial 57	1109191-04,CuA				
58	Vial 58	1109191-05;CuA				
59	Vial 59	1109191-06;CuA				

Sequence: C:\HPCHEM\ECD3\SEQUENCE\101211.S \ECD-3\ MP 7F \8081-8C MG 404 EM 210

10.14.11

Line	Location	SampleName	SampleAmount	ISTDAmt	Multiplier	Dilution
60	Vial 60	1109192-01;CuA 1X				
61	Vial 61	1109192-02;CuA				
62	Vial 62	1109192-03;CuA				
63	Vial 63	1109192-04;CuA				
64	Vial 64	1109192-05;CuA				
65	Vial 65	SEQ-CCV9 (1660)				
66	Vial 66	SEQ-CCVA (1254)				
67	Vial 67	1109192-06;CuA 1X				
68	Vial 68	1109192-07;CuA				
69	Vial 69	1109192-08;CuA				
70	Vial 70	1109192-09;CuA				
71	Vial 71	1109192-10;CuA				
72	Vial 72	1109192-11;CuA				
73	Vial 73	1109192-13;CuA				
74	Vial 74	1109192-14;CuA				
75	Vial 75	1109192-15;CuA				
76	Vial 76	1J03002-BLK1;CuA				
77	Vial 77	1J03002-BS1;CuA				
78	Vial 78	1J03002-BS2;CuA				
79	Vial 79	1109192-16;CuA 1X				
80	Vial 80	1J03002-MS1;CuA				
81	Vial 81	1J03002-MSD1;CuA				
82	Vial 82	1J03002-MS2;CuA				
83	Vial 83	1J03002-MSD2;CuA				
84	Vial 84	SEQ-CCVB (1660)				
85	Vial 85	SEQ-CCVC (1254)				
86	Vial 86	1109192-17;CuA 1X				
87	Vial 87	1109192-18;CuA				
88	Vial 88	1109192-19;CuA				
89	Vial 89	1109192-20;CuA				
90	Vial 90	SEQ-CCVD (1660)				
91	Vial 91	SEQ-CCVE (1254)				
92	Vial 92	PCB-1221 11H0200				
93	Vial 93	PCB-1232 10L0110				
94	Vial 94	PCB-1242 11F0254				
95	Vial 95	PCB-1248 1170304				
96	Vial 96	PCB-1262 10K02222 EM 10.14.11				
97	Vial 97	PCB-1268 10K0736				

RE-ANALYZED

10.14.11

LOW BOTH COLUMNS

~~Sequence Table (Back Injector)~~:

No ~~entries - empty table!~~

J.H. 10.14.11

Empirical Laboratories, LLC

SW-846 METHODS 8081A/8082

Data file : \\BC\TARGET\chem\ecd3.i\101211.b\002F0201.D
Lab Smp Id: SEQ-CCV1
Inj Date : 12-OCT-2011 13:35
Operator : EM Inst ID: ecd3.i
Smp Info : SEQ-CCV1
Misc Info : ;;;;;;1660D.sub
Comment :
Method : \\BC\TARGET\chem\ecd3.i\101211.b\8081_82F.m
Meth Date : 13-Oct-2011 22:46 jeh Quant Type: ESTD
Cal Date : 10-AUG-2011 19:35 Cal File: 002F0101.D
Als bottle: 2 Continuing Calibration Sample
Dil Factor: 1.00000
Integrator: Falcon Compound Sublist: 1660d.sub
Target Version: 4.04 Sample Matrix: None
Processing Host: NSH-LAPTOP1

RT	EXP RT	DLT RT	RESPONSE	AMOUNTS CAL-AMT (ng/mL)	AMOUNTS ON-COL (ng/mL)	TARGET RANGE	RATIO
29 PCB-1016					CAS #: 12674-11-2		
7.502	7.502	(0.000)	1744796	1000.00 X	1015	80.00- 120.00	100.00
6.935	6.935	(0.000)	797375	1000.00	948.0	36.56- 54.84	45.70
7.159	7.159	(0.000)	792504	1000.00	974.5	36.34- 54.51	45.42
7.477	7.477	(0.000)	1198831	1000.00	972.6	54.97- 82.45	68.71
7.575	7.575	(0.000)	971771			44.56- 66.83	55.70
7.694	7.694	(0.000)	782652	1000.00	947.1	35.89- 53.83	44.86
		Average of Peak Amounts =			971.4		
35 PCB-1260					CAS #: 11096-82-5		
10.949	10.949	(0.000)	4056893	1000.00	987.9	80.00- 120.00	100.00
9.464	9.464	(0.000)	1767407			34.85- 52.28	43.57
9.797	9.797	(0.000)	2214978	1000.00	998.0	43.68- 65.52	54.60
10.155	10.156	(-0.001)	2413563	1000.00	988.5	47.59- 71.39	59.49
10.259	10.259	(0.000)	1707235	1000.00	972.3	33.67- 50.50	42.08
10.545	10.546	(-0.001)	1807127			35.64- 53.45	44.54
11.317	11.317	(0.000)	2491502			49.13- 73.70	61.41
12.069	12.069	(0.000)	1061777	1000.00	982.7	20.94- 31.41	26.17
		Average of Peak Amounts =			985.9		
$ 38 TCMX					CAS #: 877-09-8		
6.129	6.129	(0.000)	3460473	100.000	91.85		
$ 39 DCB					CAS #: 2051-24-3		
12.707	12.707	(0.000)	* 3321220	100.000	88.75		

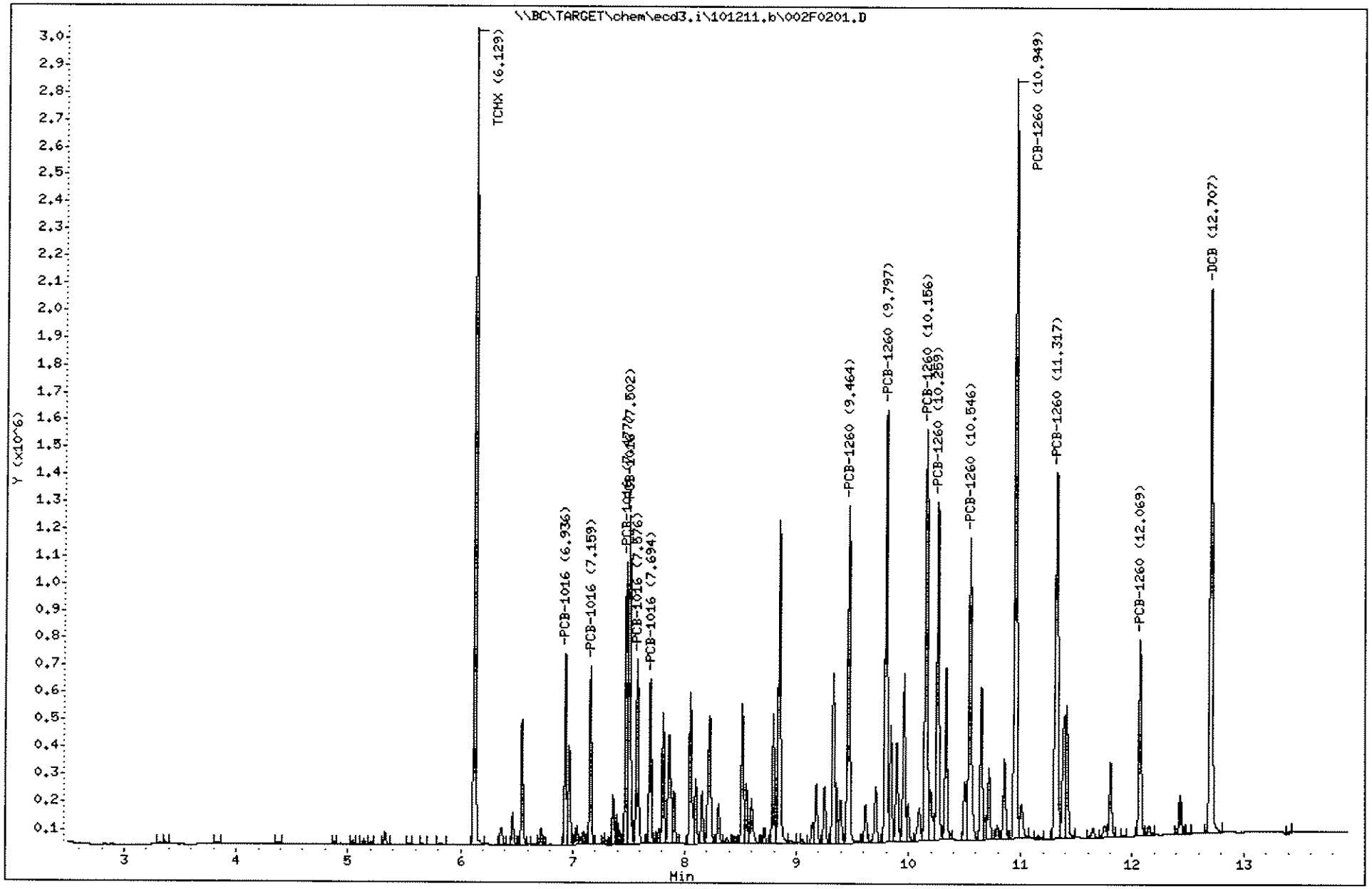
10/16/11

Data File: \\BC\TARGET\chem\ecd3.i\101211.b\002F0201.D
Date : 12-OCT-2011 13:35
Client ID:
Sample Info: SEQ-CCV1

Column phase: ZB HR-1

Instrument: ecd3.i

Operator: EM
Column diameter: 0.32



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10.14.11

Empirical Laboratories, LLC

SW-846 METHODS 8081A/8082

Data file : \\BC\TARGET\chem\ecd3.i\101211.b\002R0201.D
Lab Smp Id: SEQ-CCV1
Inj Date : 12-OCT-2011 13:35
Operator : EM
Inst ID: ecd3.i
Smp Info : SEQ-CCV1
Misc Info : ;;;;;;1660D.sub
Comment :
Method : \\BC\TARGET\chem\ecd3.i\101211.b\8081_82R.m
Meth Date : 13-Oct-2011 22:46 jeh
Quant Type: ESTD
Cal Date : 10-AUG-2011 19:35
Cal File: 002R0101.D
Als bottle: 2
Continuing Calibration Sample
Dil Factor: 1.00000
Integrator: Falcon
Compound Sublist: 1660d.sub
Target Version: 4.04
Sample Matrix: None
Processing Host: NSH-LAPTOP1

RT	EXP RT	DLT RT	RESPONSE	AMOUNTS CAL-AMT (ng/mL)	AMOUNTS ON-COL (ng/mL)	TARGET RANGE	RATIO
29 PCB-1016 [2C]					CAS #: 12674-11-2		
6.681	6.681	(0.000)	1779241	1000.00	1460	80.00- 120.00	100.00
5.848	5.848	(0.000)	656377			29.51- 44.27	36.89
6.403	6.403	(0.000)	945606	1000.00	1378	42.52- 63.78	53.15
6.660	6.660	(0.000)	1306512	1000.00	1373	58.74- 88.12	73.43
6.888	6.888	(0.000)	741534	1000.00	1147	33.34- 50.01	41.68
6.986	6.986	(0.000)	962303	1000.00	1441	43.27- 64.90	54.09
		Average of Peak Amounts =			1360		
35 PCB-1260 [2C]					CAS #: 11096-82-5		
9.826	9.826	(0.000)	3493536	1000.00	1400	80.00- 120.00	100.00
8.710	8.710	(0.000)	2024292	1000.00	1317	46.36- 69.53	57.94
8.903	8.903	(0.000)	1610770	1000.00	1128	36.89- 55.33	46.11
9.126	9.126	(0.000)	2120596	1000.00	1398	48.56- 72.84	60.70
9.176	9.176	(0.000)	1646792			37.71- 56.57	47.14
9.510	9.510	(0.000)	1507012	1000.00	1360	34.51- 51.76	43.14
10.278	10.278	(0.000)	2292746			52.50- 78.75	65.63
10.930	10.930	(0.000)	737836			16.90- 25.34	21.12
		Average of Peak Amounts =			1321		
$ 38 TCMX [2C]					CAS #: 877-09-8		
5.421	5.421	(0.000)	3641412	100.000	98.77		
$ 39 DCB [2C]					CAS #: 2051-24-3		
11.573	11.573	(0.000)	2471880	100.000	93.71 *		

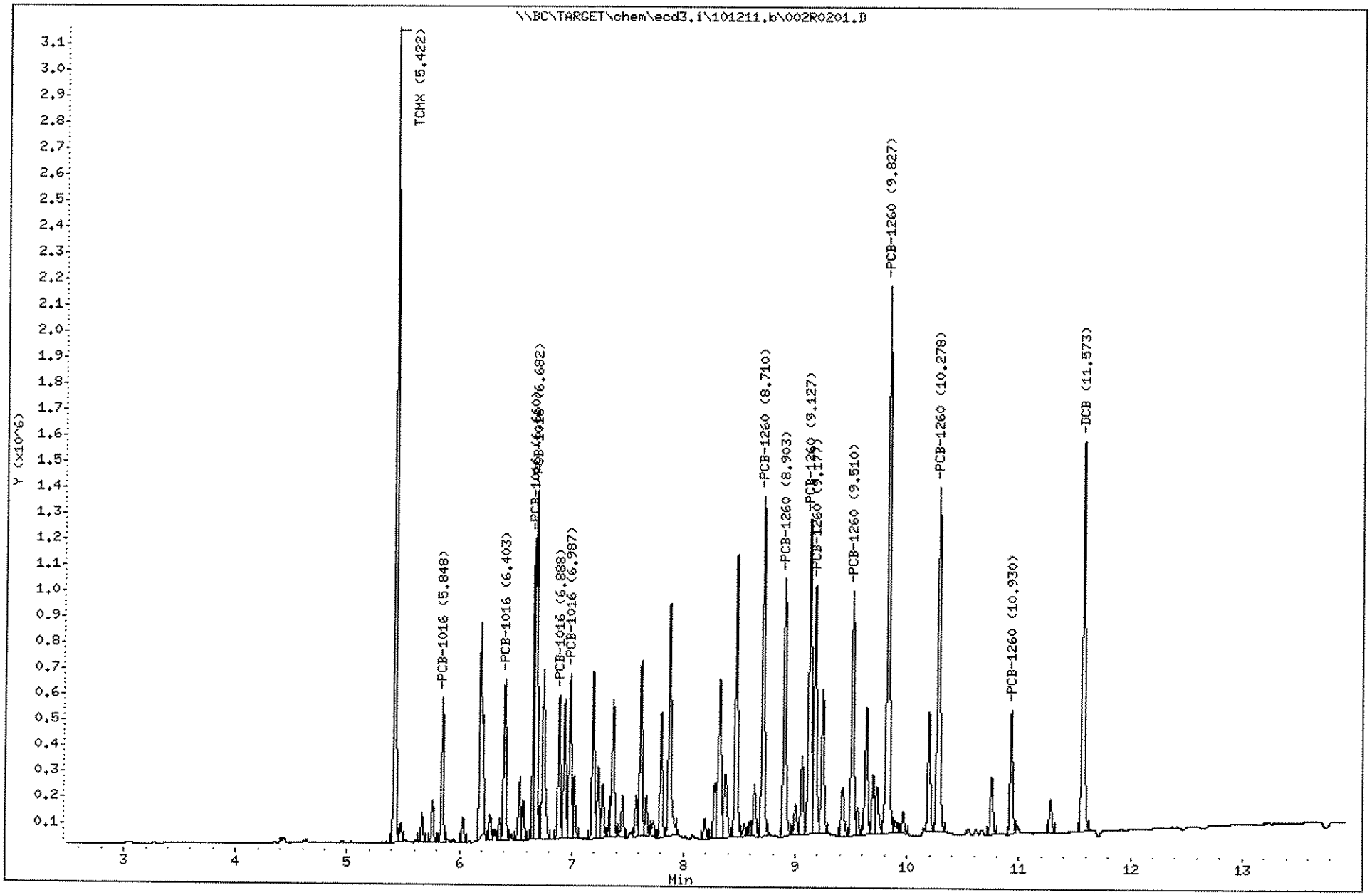
10/16/11

Data File: \\BC\TARGET\chem\ecd3.i\101211.b\002R0201.D
Date : 12-OCT-2011 13:35
Client ID:
Sample Info: SEQ-CCV1

Column phase: ZB MR-2

Instrument: ecd3.i

Operator: EM
Column diameter: 0.32



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J.H. 10.14.11

Empirical Laboratories, LLC

SW-846 METHODS 8081A/8082

Data file : \\BC\TARGET\chem\ecd3.i\101211.b\003F0301.D
Lab Smp Id: SEQ-CCV2
Inj Date : 12-OCT-2011 13:54
Operator : EM Inst ID: ecd3.i
Smp Info : SEQ-CCV2
Misc Info : ;;;;;;AR1254.sub
Comment :
Method : \\BC\TARGET\chem\ecd3.i\101211.b\8081_82F.m
Meth Date : 13-Oct-2011 22:46 jeh Quant Type: ESTD
Cal Date : 10-AUG-2011 19:35 Cal File: 002F0101.D
Als bottle: 3 Continuing Calibration Sample
Dil Factor: 1.00000
Integrator: Falcon Compound Sublist: AR1254.sub
Target Version: 4.04 Sample Matrix: None
Processing Host: NSH-LAPTOP1

RT	EXP RT	DLT RT	RESPONSE	AMOUNTS CAL-AMT (ng/mL)	AMOUNTS ON-COL (ng/mL)	TARGET RANGE	RATIO
34 PCB-1254					CAS #: 11097-69-1		
9.251	9.251	(0.000)	*1926815	1000.00	880.9	80.00- 120.00	100.00
7.808	7.808	(0.000)	641827	1000.00	877.7	26.65- 39.97	33.31
8.516	8.516	(0.000)	1176214			48.84- 73.25	61.04
8.793	8.793	(0.000)	1740718	1000.00	829.4	72.27- 108.41	90.34
9.618	9.618	(0.000)	1481732	1000.00	869.4	61.52- 92.28	76.90
10.155	10.155	(0.000)	1596204	1000.00	879.4	66.27- 99.41	82.84
		Average of Peak Amounts =			867.4		

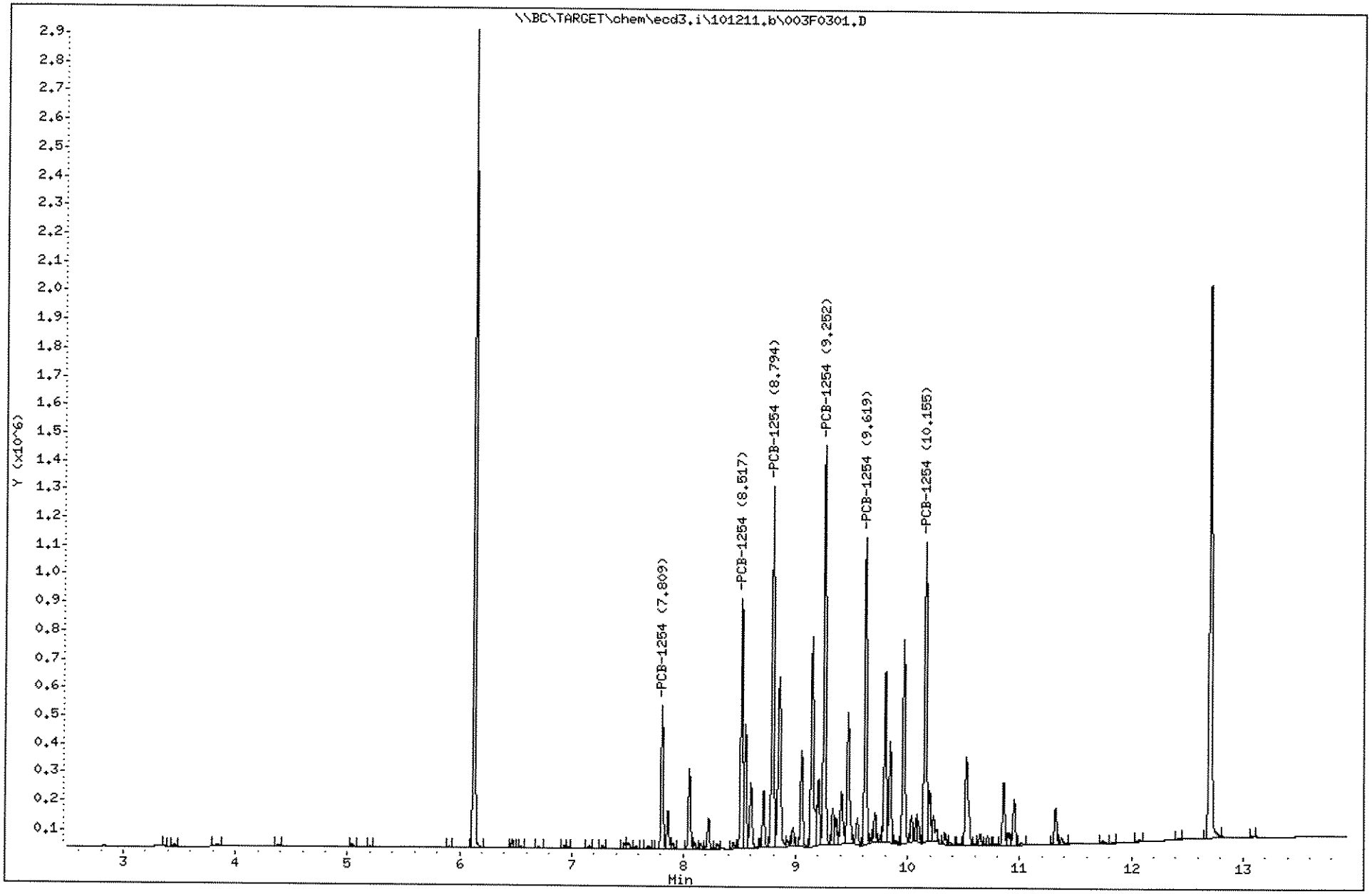
10/16/11

Data File: \\BC\TARGET\chem\ecd3.i\101211.b\003F0301.D
Date : 12-OCT-2011 13:54
Client ID:
Sample Info: SEQ-CCV2

Column phase: ZB MR-1

Instrument: ecd3.i

Operator: EM
Column diameter: 0.32



J.H. 10.14.11

Empirical Laboratories, LLC

SW-846 METHODS 8081A/8082

Data file : \\BC\TARGET\chem\ecd3.i\101211.b\003R0301.D
Lab Smp Id: SEQ-CCV2
Inj Date : 12-OCT-2011 13:54
Operator : EM
Smp Info : SEQ-CCV2
Misc Info : ;;;;;;AR1254.sub
Comment :
Method : \\BC\TARGET\chem\ecd3.i\101211.b\8081_82R.m
Meth Date : 13-Oct-2011 22:47 jeh
Cal Date : 10-AUG-2011 19:35
Als bottle: 3
Dil Factor: 1.00000
Integrator: Falcon
Target Version: 4.04
Processing Host: NSH-LAPTOP1

Inst ID: ecd3.i

Quant Type: ESTD
Cal File: 002R0101.D
Continuing Calibration Sample

Compound Sublist: AR1254.sub
Sample Matrix: None

RT	EXP RT	DLT RT	RESPONSE	AMOUNTS CAL-AMT (ng/mL)	AMOUNTS ON-COL (ng/mL)	TARGET RANGE	RATIO
34 PCB-1254 [2C]					CAS #: 11097-69-1		
8.306	8.306	(0.000)	2453451	1000.00 ✗	1386	80.00- 120.00	100.00
7.192	7.192	(0.000)	480858			15.68- 23.52	19.60
7.621	7.621	(0.000)	1944780	1000.00	1374	63.41- 95.12	79.27
7.802	7.802	(0.000)	1696900	1000.00	1397	55.33- 83.00	69.16
8.471	8.471	(0.000)	1262090	1000.00	1384	41.15- 61.73	51.44
9.129	9.129	(0.000)	* 2072107	1000.00	1376	67.57- 101.35	84.46
		Average of Peak Amounts =			1383		

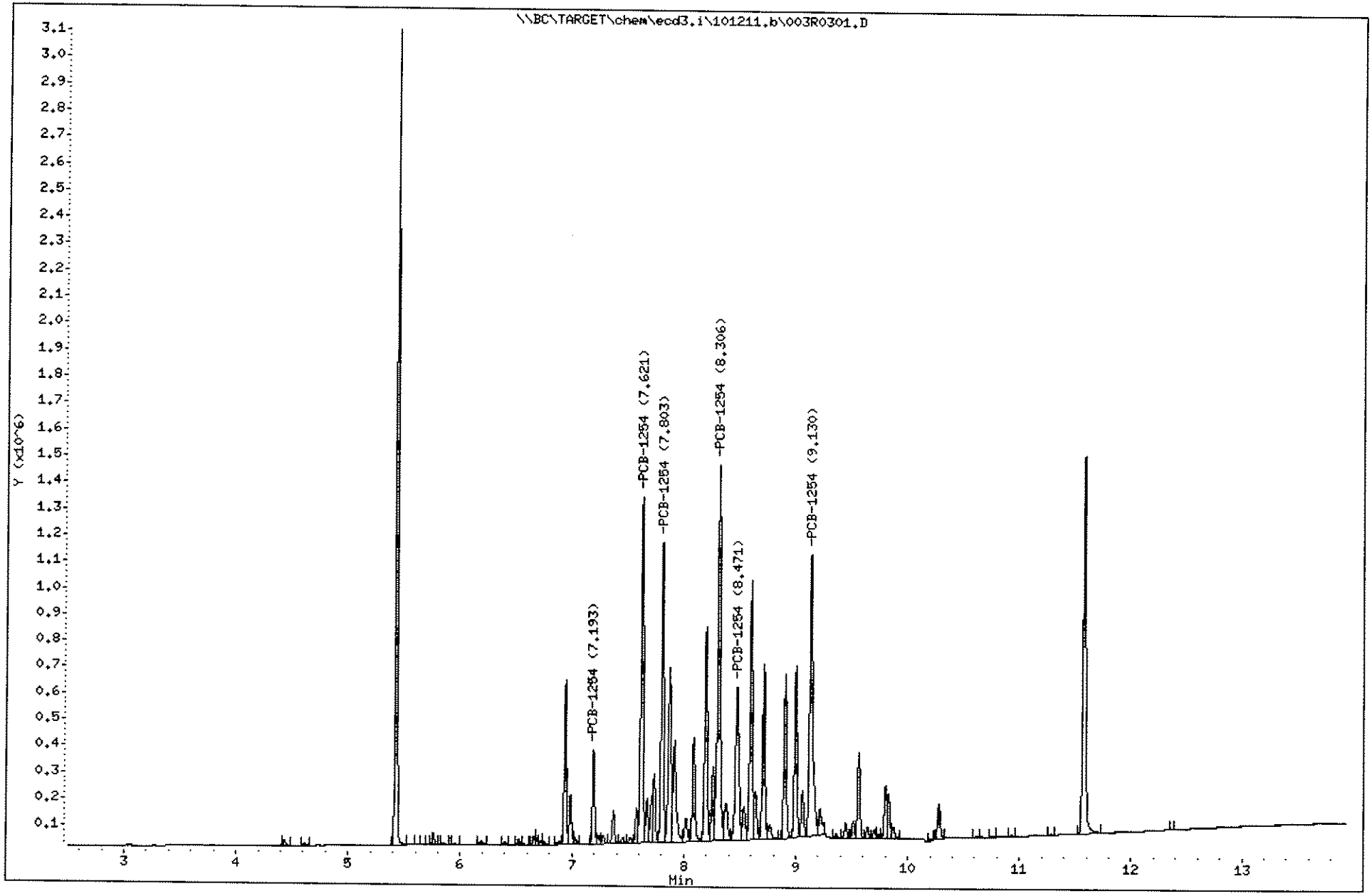
10/16/11

Data File: \\BC\TARGET\chem\ecd3.i\101211.b\003R0301.D
Date : 12-OCT-2011 13:54
Client ID:
Sample Info: SEQ-CCV2

Column phase: ZB MR-2

Instrument: ecd3.i

Operator: EM
Column diameter: 0.32



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Sample #1 : \\BC\TARGET\chem\ecd3.i\101211.b\005F0501.D
Sample #2 : \\BC\TARGET\chem\ecd3.i\101211.b\005R0501.D
Inj Date : 12-OCT-2011 14:31
Sample Info: 1J04002-BLK1
Misc Info : ;;;;;;PCB.sub
Cal Date : 13-OCT-2011 22:46
Operator : EM
Inst ID : ecd3.i
Dil Factor : 1.000000

Method #1 : \\BC\TARGET\chem\ecd3.i\101211.b\8081_82F.m
Method #2 : \\BC\TARGET\chem\ecd3.i\101211.b\8081_82R.m
Sub List #1 : PCB.sub
Sub List #2 : PCB.sub
Col #1 Phase : ZB MR-1
Col #2 Phase : ZB MR-2

Compound	RT#1	RT#2	Resp#1	Resp#2	Conc#1	Conc#2	Target Range	Ratio
TCMX	6.130	5.424	1371505	1559147	36.40	42.29		100.00(R)
DCB	12.708	11.576	708213	602818	18.92	21.88		100.00(R)

QC Flag Legend

R - Spike/Surrogate failed recovery limits.

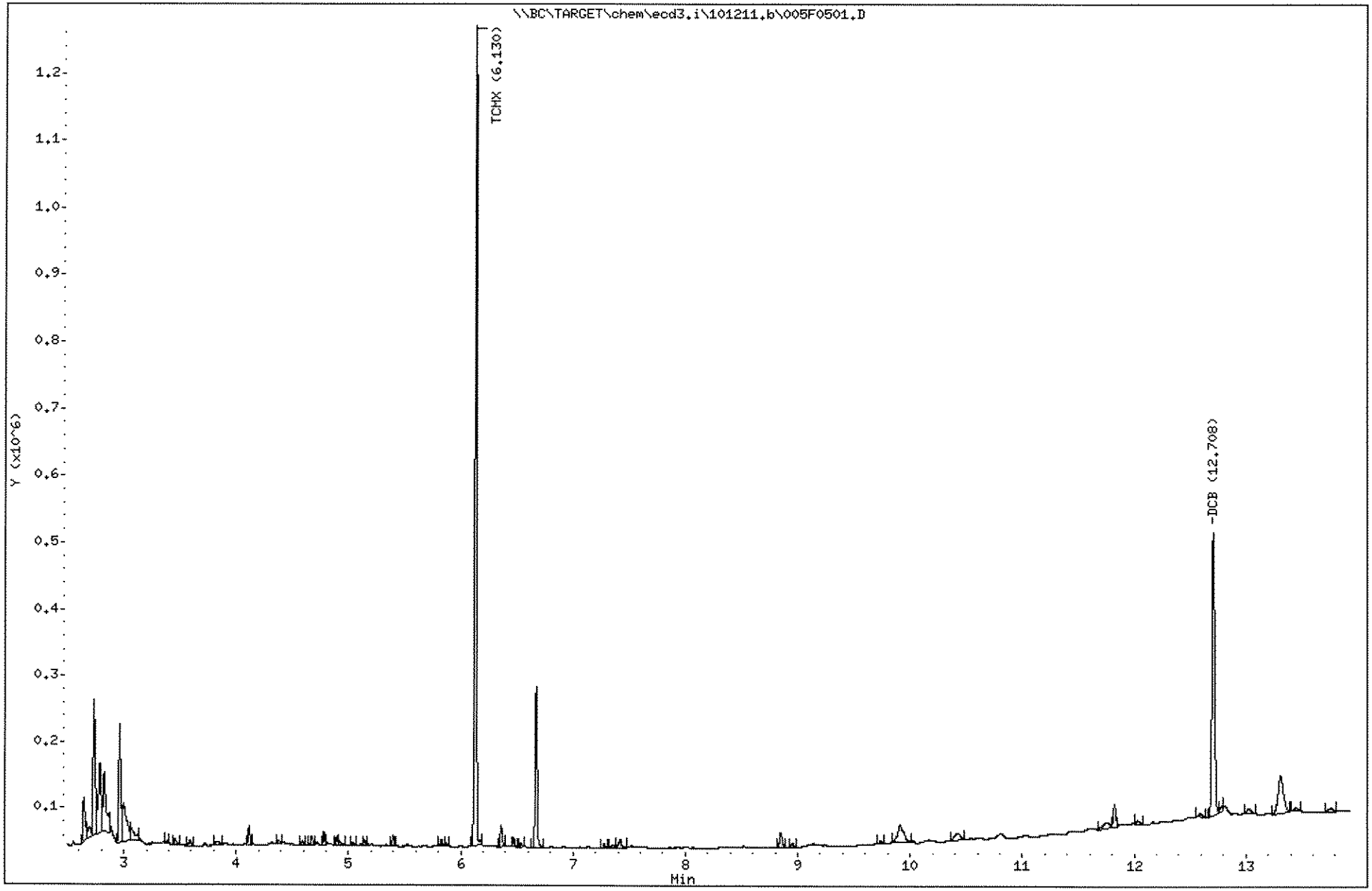
10/16/11

Data File: \\BC\TARGET\chem\ecd3.i\101211.b\005F0501.D
Date : 12-OCT-2011 14:31
Client ID:
Sample Info: 1J04002-BLK1

Column phase: ZB MR-1

Instrument: ecd3.i

Operator: EM
Column diameter: 0.32

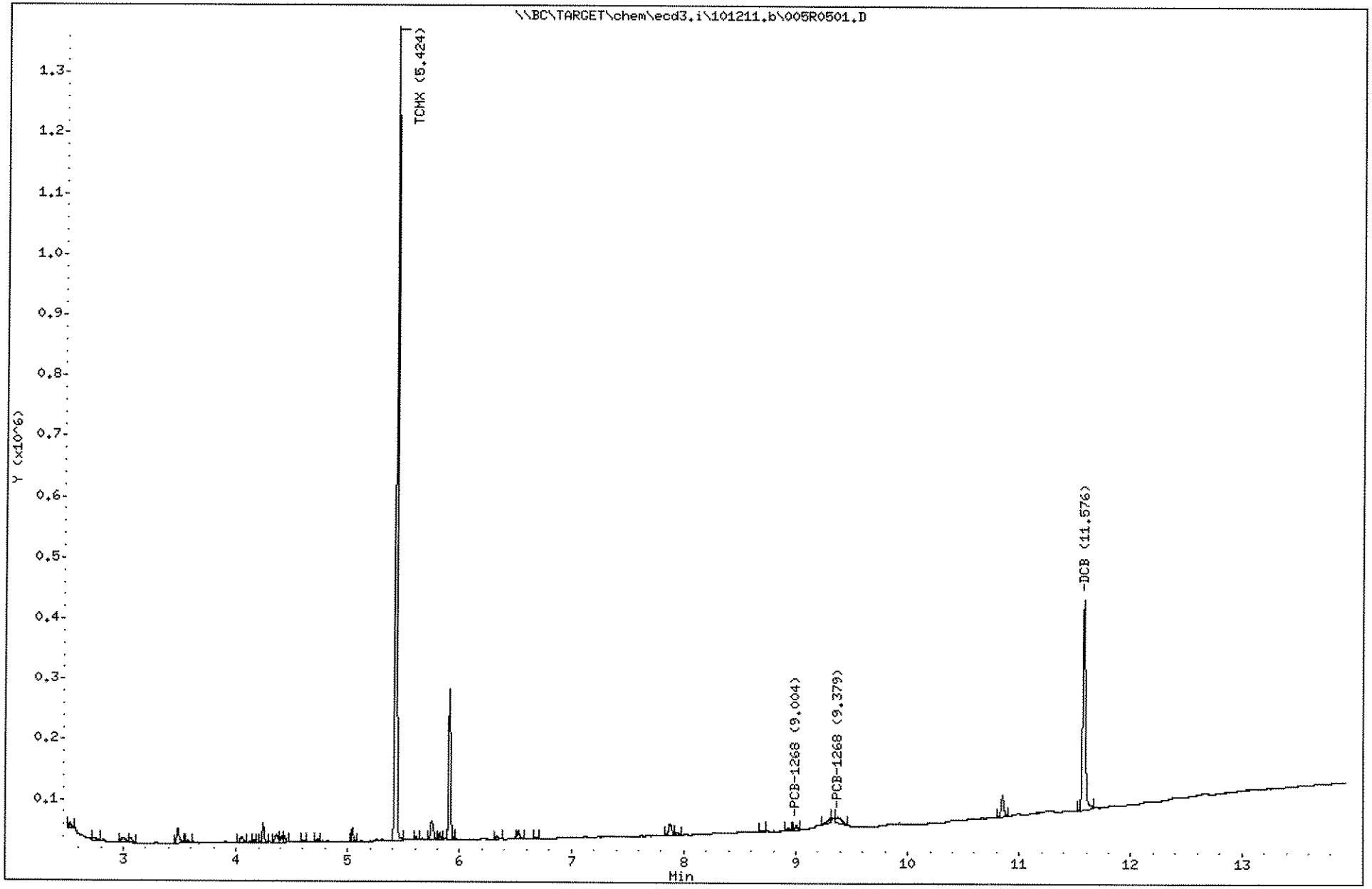


Data File: \\BC\TARGET\chem\ecd3.i\101211.b\005R0501.D
Date : 12-OCT-2011 14:31
Client ID:
Sample Info: 1J04002-BLK1

Column phase: ZB MR-2

Instrument: ecd3.i

Operator: EM
Column diameter: 0.32



J.H. 10.14.11

Empirical Laboratories, LLC

Sample #1 : \\BC\TARGET\chem\ecd3.i\101211.b\007F0701.D
Sample #2 : \\BC\TARGET\chem\ecd3.i\101211.b\007R0701.D
Inj Date : 12-OCT-2011 15:09
Sample Info: 1J04002-BS2
Misc Info : ;;;;;;PCB.sub
Cal Date : 13-OCT-2011 22:46
Operator : EM
Inst ID : ecd3.i
Dil Factor : 1.000000

Method #1 : \\BC\TARGET\chem\ecd3.i\101211.b\8081_82F.m
Method #2 : \\BC\TARGET\chem\ecd3.i\101211.b\8081_82R.m
Sub List #1 : PCB.sub
Sub List #2 : PCB.sub
Col #1 Phase : ZB MR-1
Col #2 Phase : ZB MR-2

Compound	RT#1	RT#2	Resp#1	Resp#2	Conc#1	Conc#2	Target Range	Ratio
PCB-1016	7.506	6.685	186171	213304	108.3	175.1	80.00- 120.00	100.00
	6.939	5.852	90222	75287	107.3		36.56- 54.84	48.46
	7.161	6.407	87025	116279	107.0	169.4	36.34- 54.51	46.74
	7.479	6.664	127661	176965	103.6	186.0	54.97- 82.45	68.57
	7.579	6.892	107959	115334		178.4	33.34- 50.01	54.07
	7.696	6.992	89546	121966	108.4	182.7	35.89- 53.83	48.10
		Average of Peak Amounts =			106.9	178.3		
PCB-1260	10.951	9.830	1555504	1593008	378.8	638.2	80.00- 120.00	100.00
	9.464	8.714	769570	1102487		717.2	46.36- 69.53	69.21
	9.798	8.907	969313	1006541	436.7	705.0	43.68- 65.52	62.32
	10.156	9.132	1139451	1190814	466.7	785.1	47.59- 71.39	73.25
	10.261	9.182	640440	806143	364.8		33.67- 50.50	41.17
	10.548	9.515	731938	653637		589.9	34.51- 51.76	41.03
	11.321	10.282	944573	1094859			52.50- 78.75	68.73
	12.071	10.934	343159	312152	317.6		20.94- 31.41	22.06
		Average of Peak Amounts =			392.9	687.1		
TCMX	6.131	5.425	1421809	1551843	37.74	42.09		100.00(R)
DCB	12.709	11.577	709025	589175	18.95	21.35		100.00(R)

QC Flag Legend

R - Spike/Surrogate failed recovery limits.

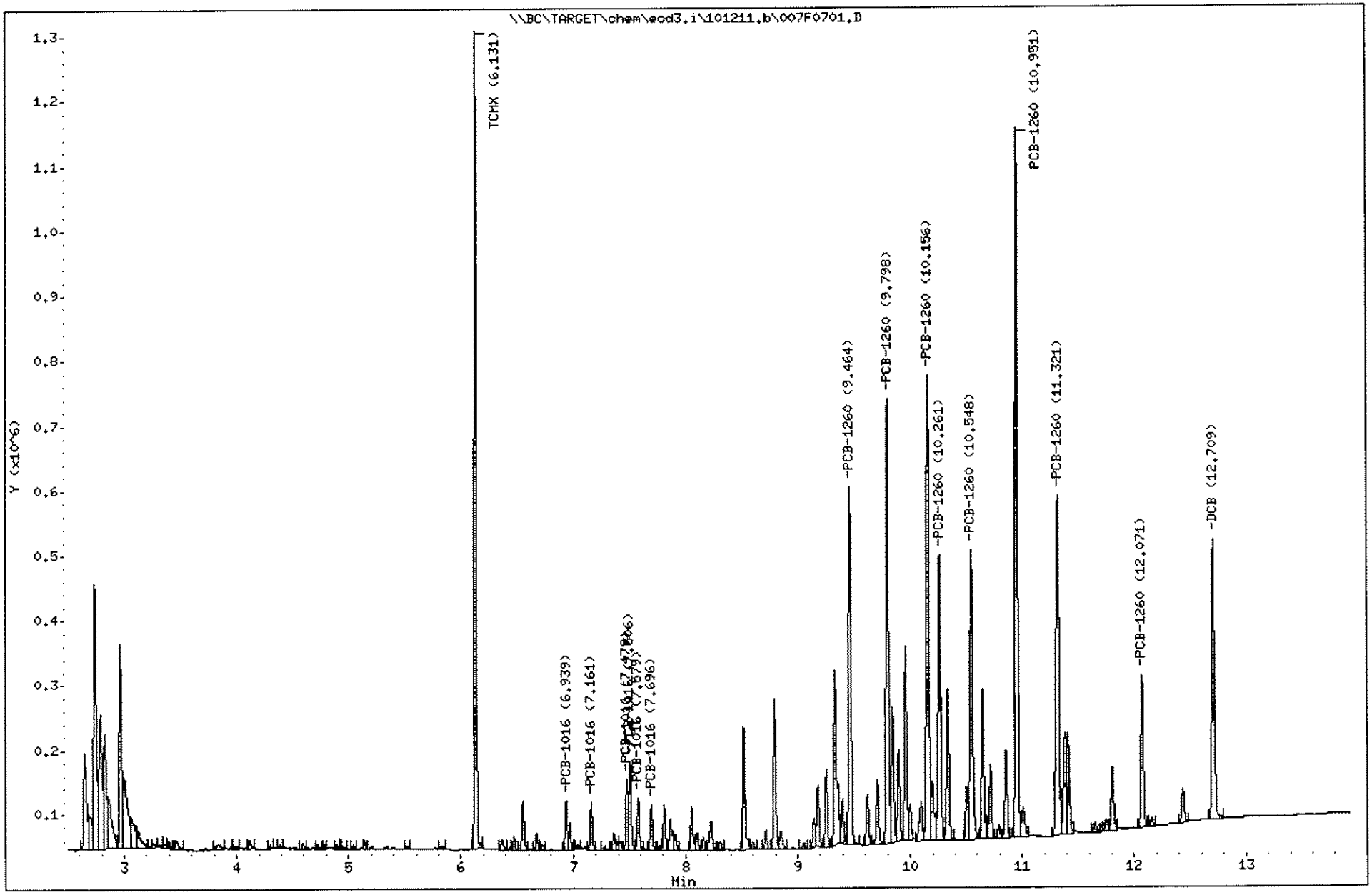
10/16/11

Data File: \\BC\TARGET\chem\ecd3.i\101211.b\007F0701.D
Date : 12-OCT-2011 15:09
Client ID:
Sample Info: 1J04002-BS2

Instrument: ecd3.i

Operator: EM
Column diameter: 0.32

Column phase: ZB MR-1



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Data File: \\BC\TARGET\chem\ecd3.i\101211.b\007R0701.D

Date : 12-OCT-2011 15:09

Client ID:

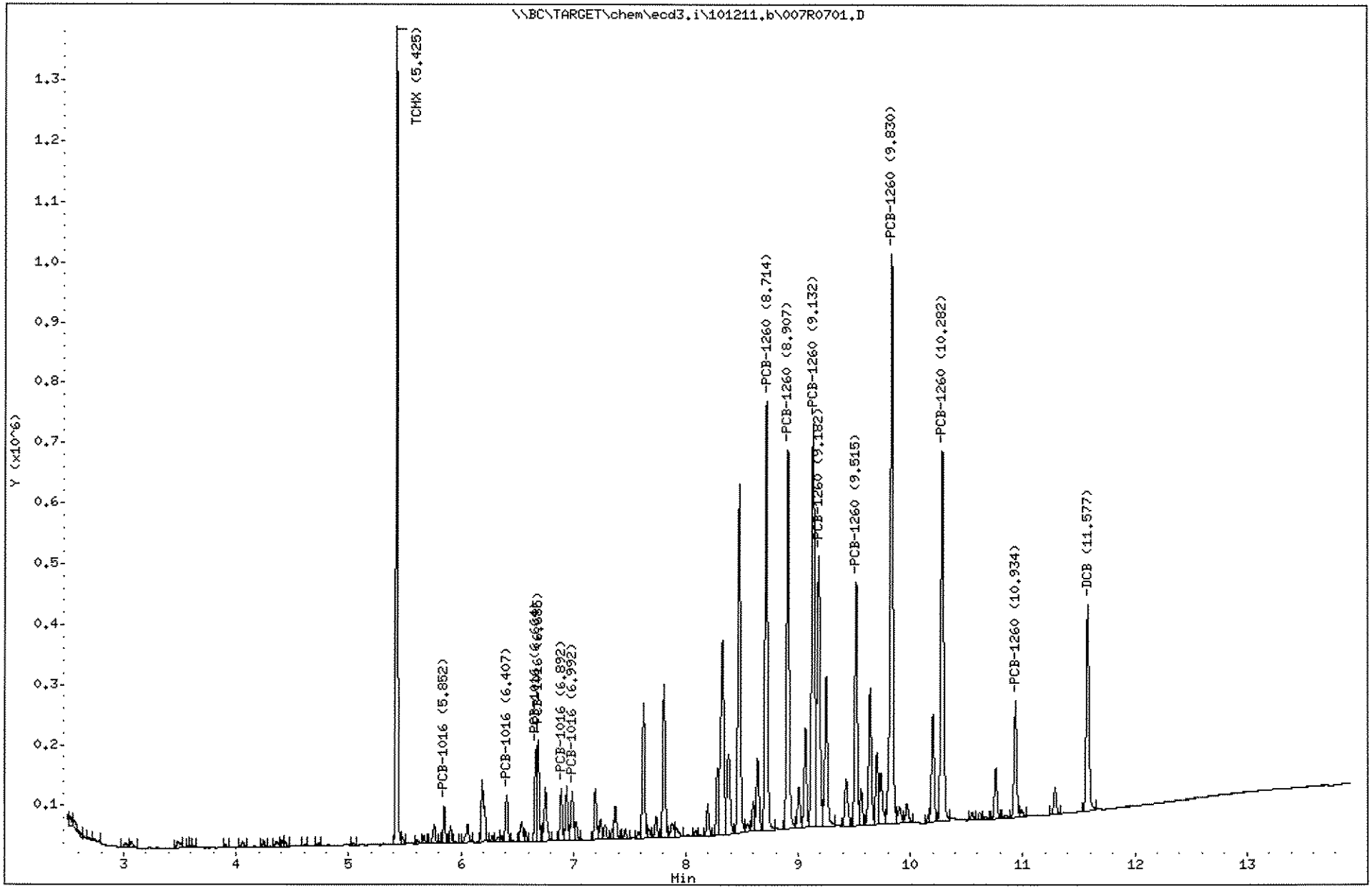
Sample Info: 1J04002-BS2

Column phase: ZB MR-2

Instrument: ecd3.i

Operator: EM

Column diameter: 0.32



935

1110003

10.14.11

Empirical Laboratories, LLC

Sample #1 : \\BC\TARGET\chem\ecd3.i\101211.b\008F0801.D
Sample #2 : \\BC\TARGET\chem\ecd3.i\101211.b\008R0801.D
Inj Date : 12-OCT-2011 15:27
Sample Info: 111003-01
Misc Info : ;;;;;;PCB.sub
Cal Date : 13-OCT-2011 22:46
Operator : EM
Inst ID : ecd3.i
Dil Factor : 1.000000

Method #1 : \\BC\TARGET\chem\ecd3.i\101211.b\8081_82F.m
Method #2 : \\BC\TARGET\chem\ecd3.i\101211.b\8081_82R.m
Sub List #1 : PCB.sub
Sub List #2 : PCB.sub
Col #1 Phase : ZB MR-1
Col #2 Phase : ZB MR-2

Compound	RT#1	RT#2	Resp#1	Resp#2	Conc#1	Conc#2	Target Range	Ratio
TCMX	6.131	5.425	1303857	1364507	34.61	37.01		100.00(R)
DCB	12.709	11.577	772893	632393	20.65	23.02		100.00(R)

QC Flag Legend

R - Spike/Surrogate failed recovery limits.

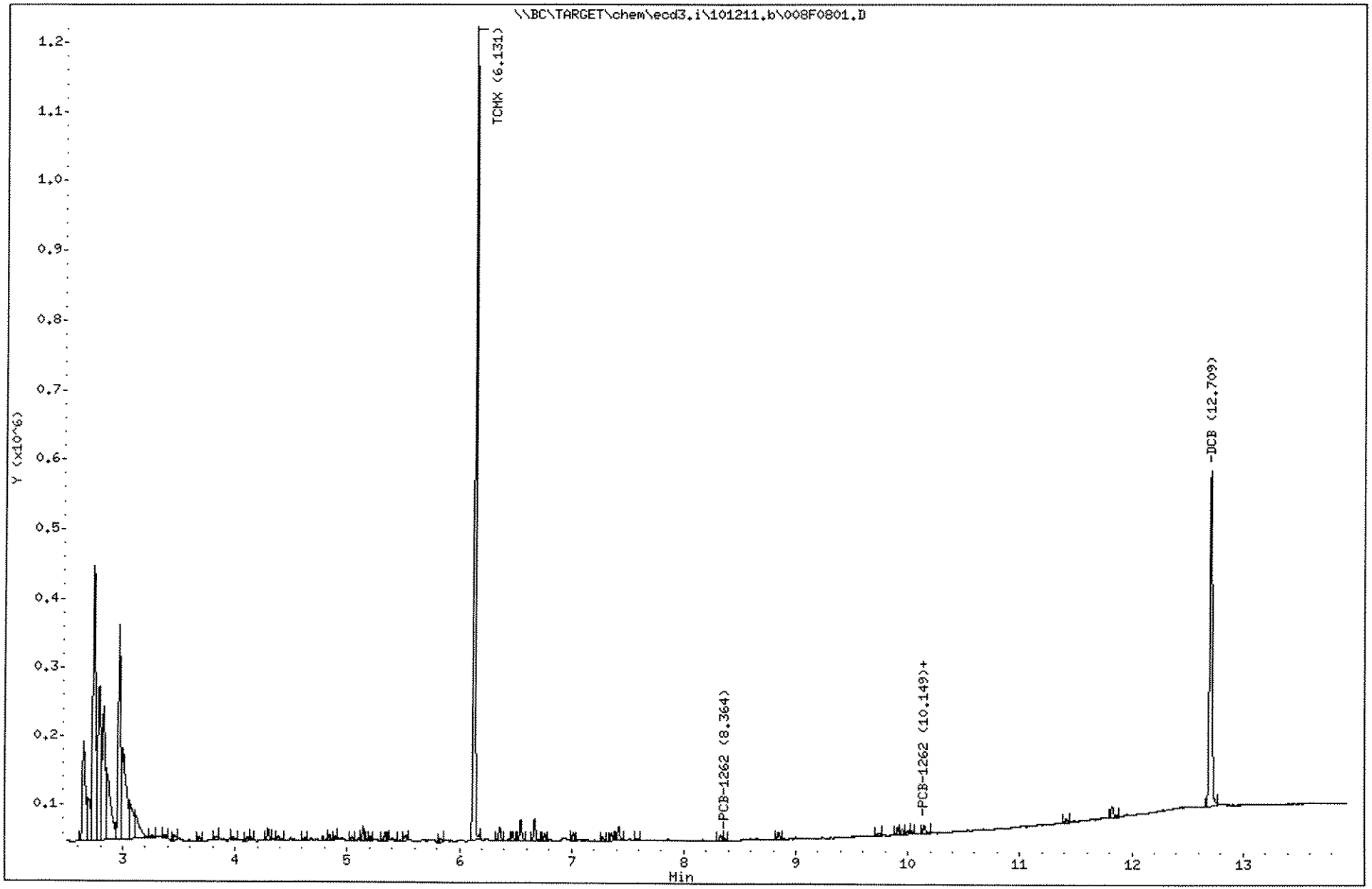
10/16/11

Data File: \\BC\TARGET\chem\ecd3.i\101211.b\008F0801.D
Date : 12-OCT-2011 15:27
Client ID:
Sample Info: 111003-01

Column phase: ZB MR-1

Instrument: ecd3.i

Operator: EM
Column diameter: 0.32

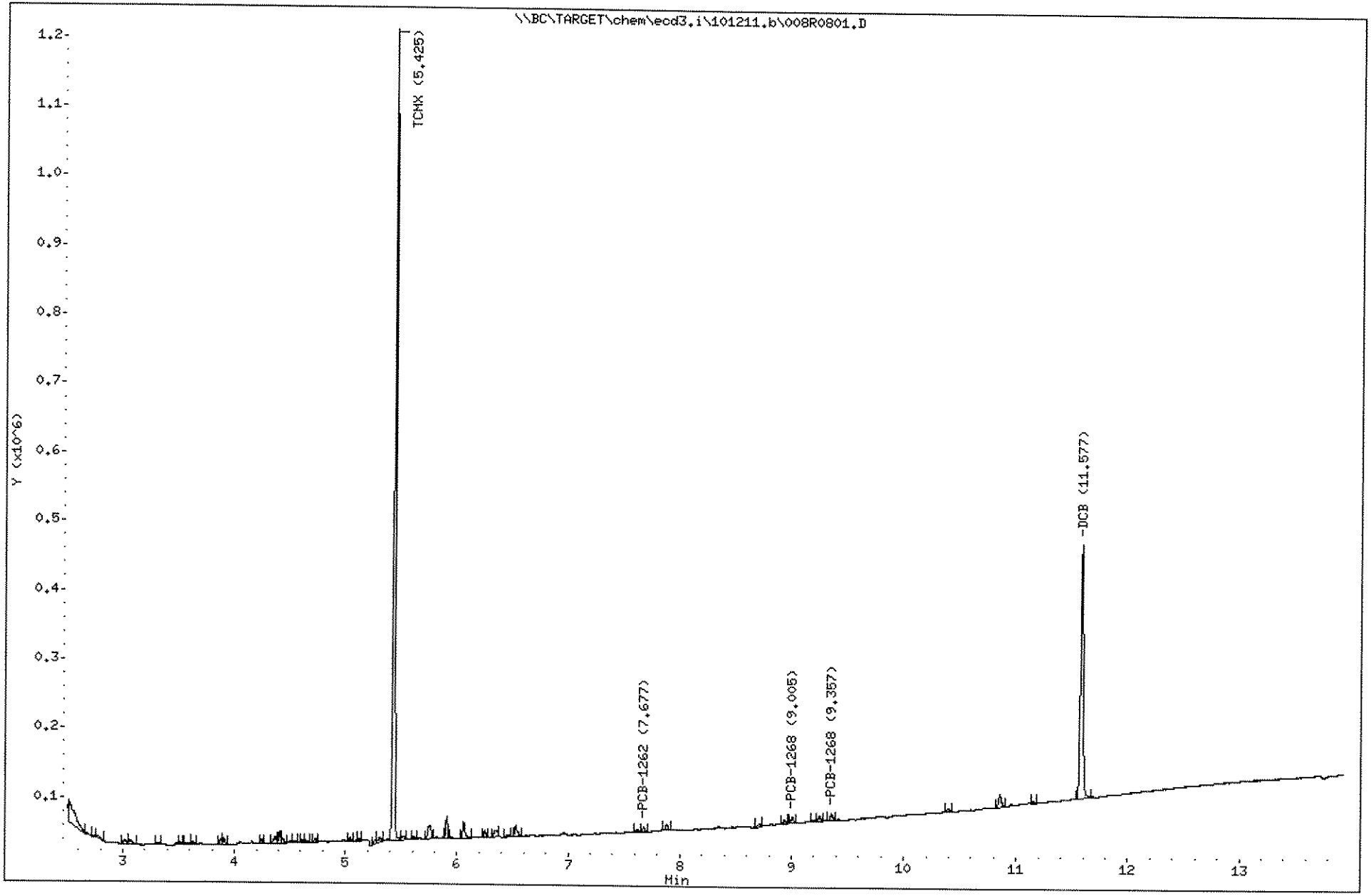


Data File: \\BC\TARGET\chem\ecd3.i\101211.b\008R0801.D
Date : 12-OCT-2011 15:27
Client ID:
Sample Info: 111003-01

Column phase: ZB MR-2

Instrument: ecd3.i

Operator: EM
Column diameter: 0.32



938

1110003

JH. 10.14.11

Empirical Laboratories, LLC

Sample #1 : \\BC\TARGET\chem\ecd3.i\101211.b\009F0901.D
Sample #2 : \\BC\TARGET\chem\ecd3.i\101211.b\009R0901.D
Inj Date : 12-OCT-2011 15:46
Sample Info: 111003-03
Misc Info : ;;;;;;PCB.sub
Cal Date : 13-OCT-2011 22:46
Operator : EM
Inst ID : ecd3.i
Dil Factor : 1.000000

Method #1 : \\BC\TARGET\chem\ecd3.i\101211.b\8081_82F.m
Method #2 : \\BC\TARGET\chem\ecd3.i\101211.b\8081_82R.m
Sub List #1 : PCB.sub
Sub List #2 : PCB.sub
Col #1 Phase : ZB MR-1
Col #2 Phase : ZB MR-2

Compound	RT#1	RT#2	Resp#1	Resp#2	Conc#1	Conc#2	Target Range	Ratio
TCMX	6.130	5.426	1291360	1256981	34.28	34.09		100.00(R)
DCB	12.710	11.576	714458	573052	19.09	20.74		100.00(R)

QC Flag Legend

R - Spike/Surrogate failed recovery limits.

10/16/11

Data File: \\BC\TARGET\chem\ecd3.i\101211.b\009F0901.D

Date : 12-OCT-2011 15:46

Client ID:

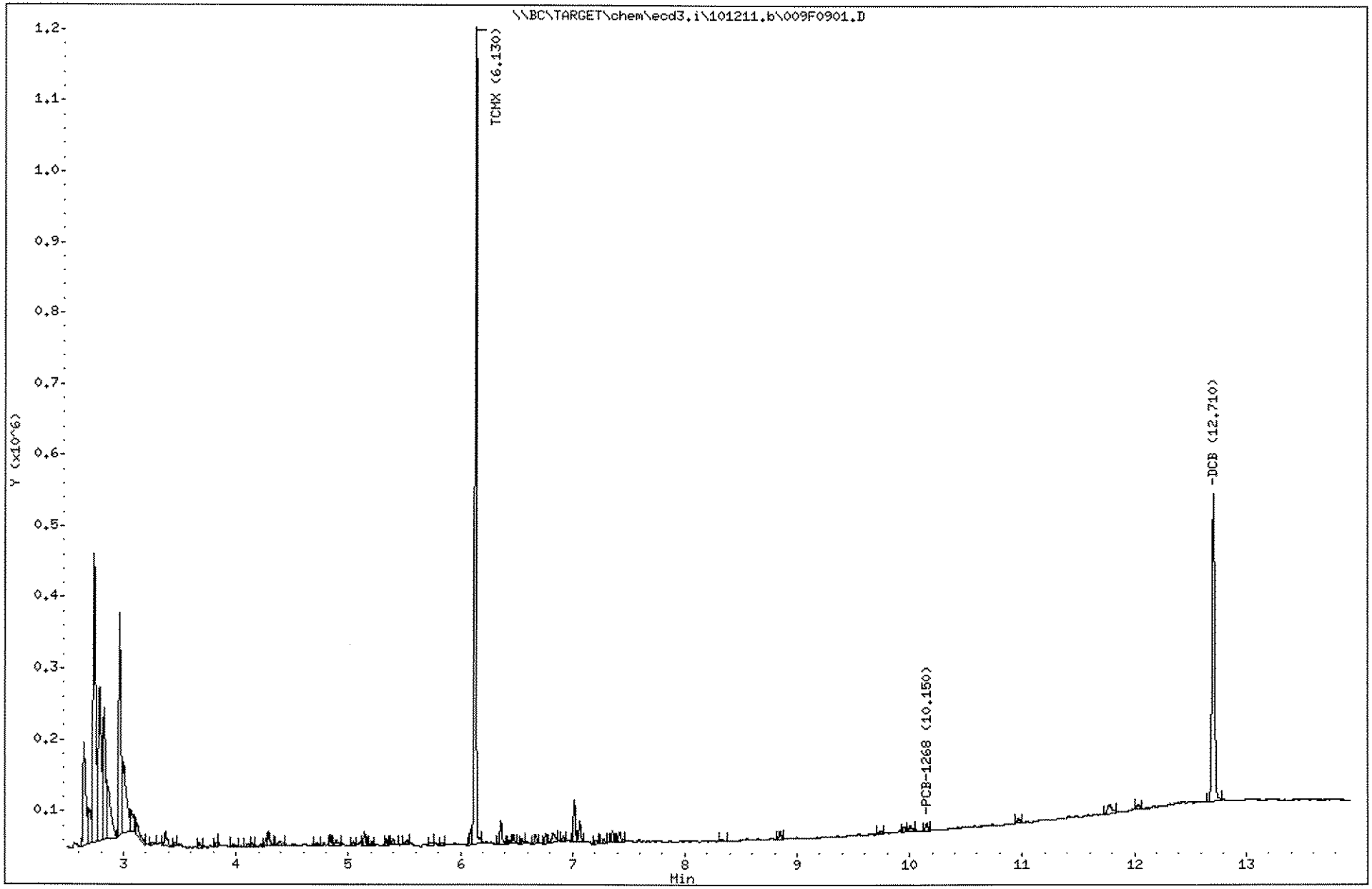
Instrument: ecd3.i

Sample Info: 111003-03

Operator: EM

Column phase: ZB MR-1

Column diameter: 0.32

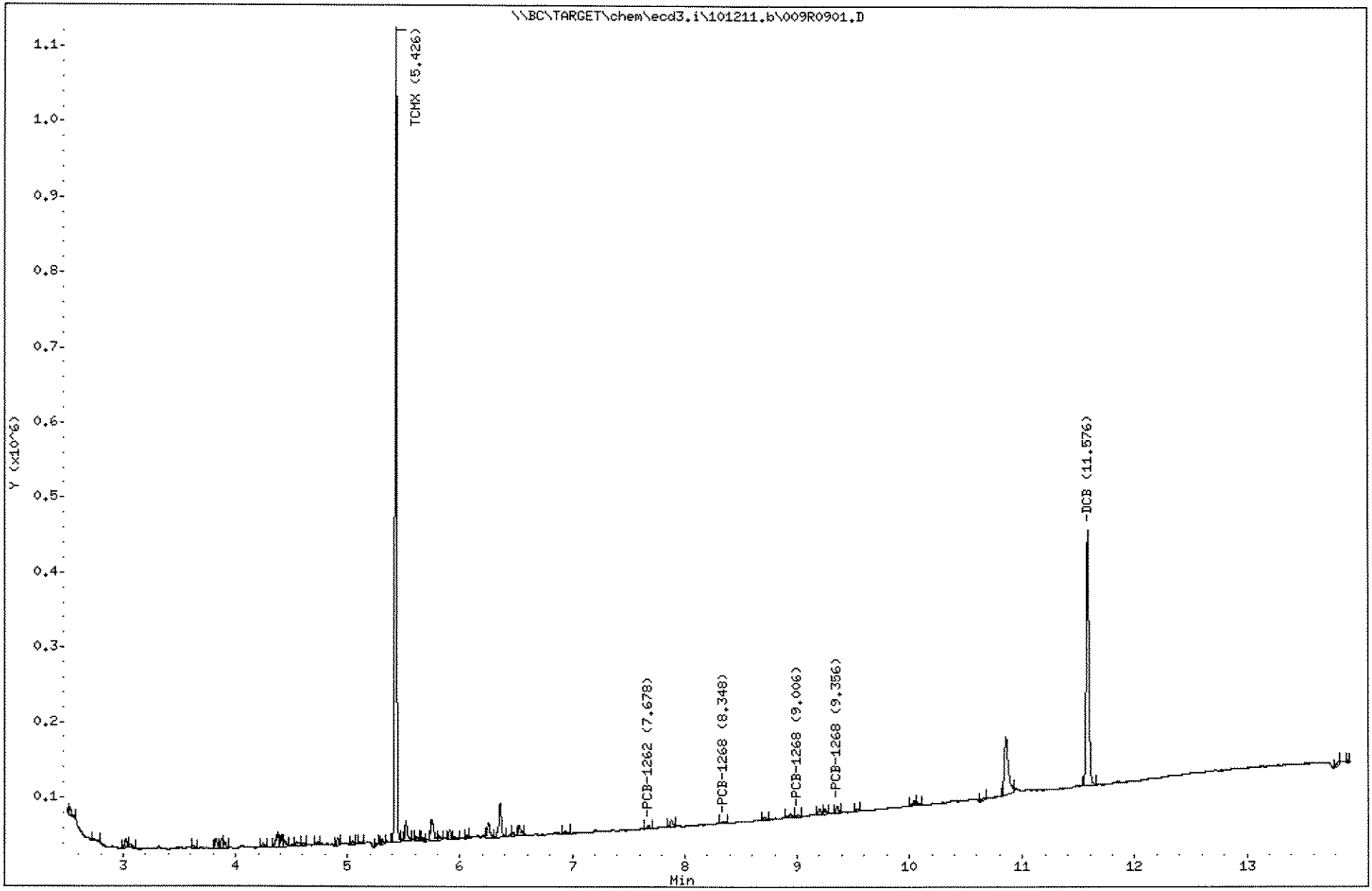


Data File: \\BC\TARGET\chem\ecd3.i\101211.b\009R0901.D
Date : 12-OCT-2011 15:46
Client ID:
Sample Info: 111003-03

Column phase: ZB MR-2

Instrument: ecd3.i

Operator: EM
Column diameter: 0.32



941

1110003

10.14.11

Empirical Laboratories, LLC

Sample #1 : \\BC\TARGET\chem\ecd3.i\101211.b\010F1001.D
Sample #2 : \\BC\TARGET\chem\ecd3.i\101211.b\010R1001.D
Inj Date : 12-OCT-2011 16:05
Sample Info: 111003-05
Misc Info : ;;;;;;PCB.sub
Cal Date : 13-OCT-2011 22:46
Operator : EM
Inst ID : ecd3.i
Dil Factor : 1.000000

Method #1 : \\BC\TARGET\chem\ecd3.i\101211.b\8081_82F.m
Method #2 : \\BC\TARGET\chem\ecd3.i\101211.b\8081_82R.m
Sub List #1 : PCB.sub
Sub List #2 : PCB.sub
Col #1 Phase : ZB MR-1
Col #2 Phase : ZB MR-2

Compound	RT#1	RT#2	Resp#1	Resp#2	Conc#1	Conc#2	Target Range	Ratio
TCMX	6.130	5.426	937662	787794	24.89	21.37		100.00(R)
DCB	12.709	11.578	391966	272331	10.47	9.178		100.00(R)

QC Flag Legend

R - Spike/Surrogate failed recovery limits.

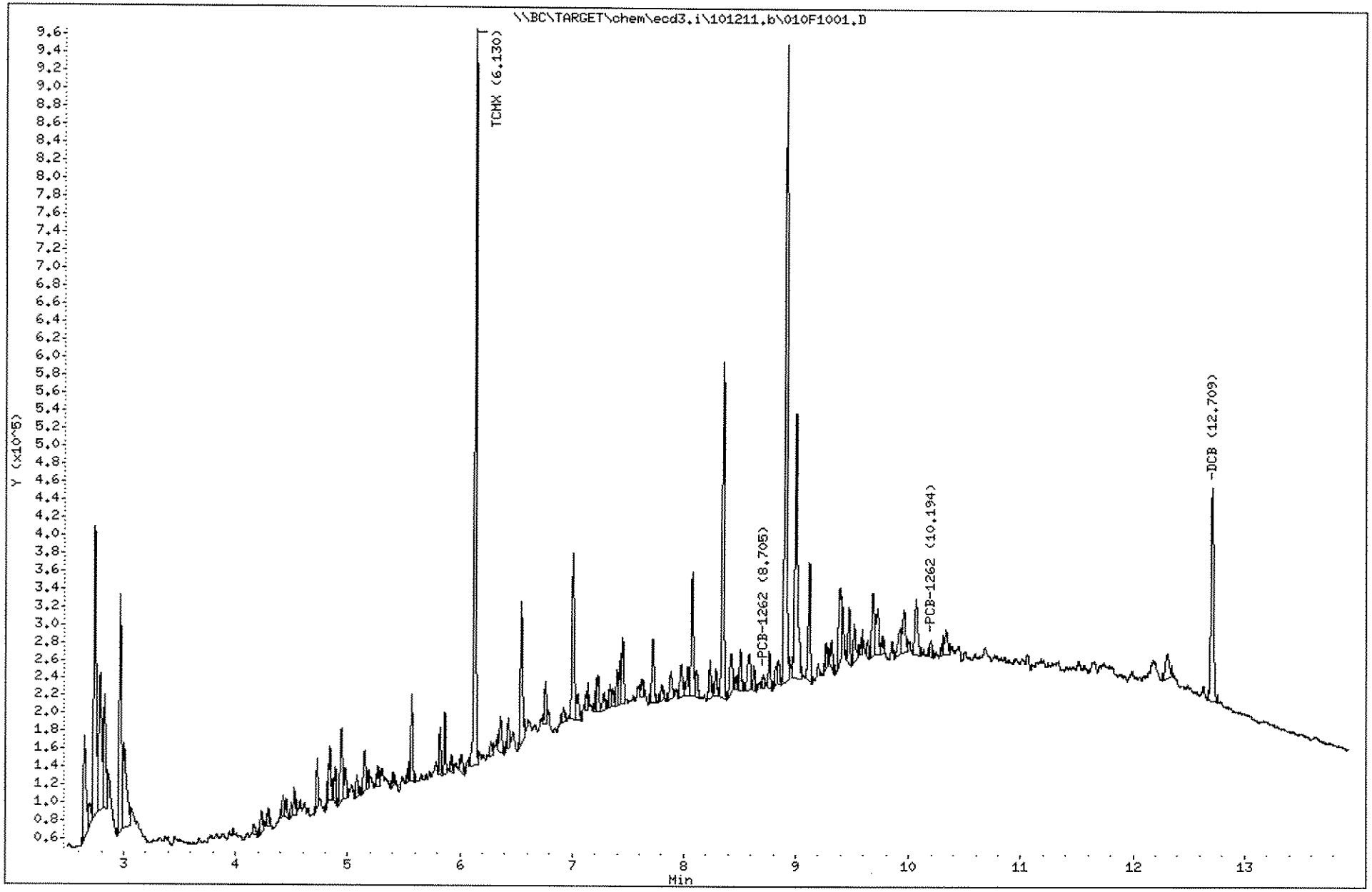
10/16/11

Data File: \\BC\TARGET\chem\ecd3.i\101211.b\010F1001.D
Date : 12-OCT-2011 16:05
Client ID:
Sample Info: 111003-05

Column phase: ZB MR-1

Instrument: ecd3.i

Operator: EM
Column diameter: 0.32

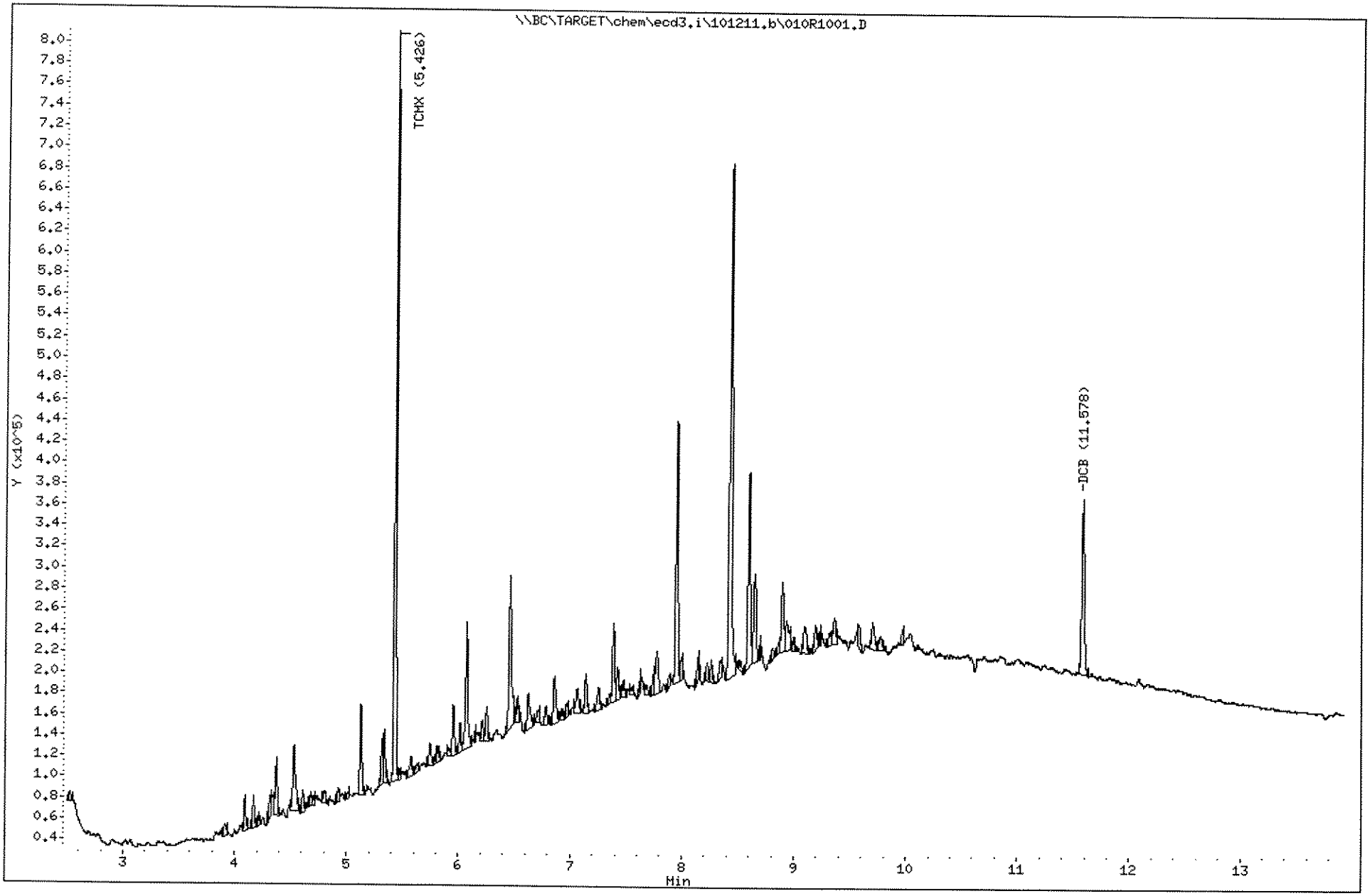


Data File: \\BC\TARGET\chem\ecd3.i\101211.b\010R1001.D
Date : 12-OCT-2011 16:05
Client ID:
Sample Info: 111003-05

Column phase: ZB MR-2

Instrument: ecd3.i

Operator: EM
Column diameter: 0.32



944

1110003

J.H. 10.14.11

Empirical Laboratories, LLC

Sample #1 : \\BC\TARGET\chem\ecd3.i\101211.b\011F1101.D
Sample #2 : \\BC\TARGET\chem\ecd3.i\101211.b\011R1101.D
Inj Date : 12-OCT-2011 16:23
Sample Info: 111003-07
Misc Info : ;;;;;;PCB.sub
Cal Date : 13-OCT-2011 22:46
Operator : EM
Inst ID : ecd3.i
Dil Factor : 1.000000

Method #1 : \\BC\TARGET\chem\ecd3.i\101211.b\8081_82F.m
Method #2 : \\BC\TARGET\chem\ecd3.i\101211.b\8081_82R.m
Sub List #1 : PCB.sub
Sub List #2 : PCB.sub
Col #1 Phase : ZB MR-1
Col #2 Phase : ZB MR-2

Compound	RT#1	RT#2	Resp#1	Resp#2	Conc#1	Conc#2	Target Range	Ratio
TCMX	6.132	5.426	1044367	998729	27.72	27.09		100.00(R)
DCB	12.710	11.578	503669	372897	13.46	13.04		100.00(R)

QC Flag Legend

R - Spike/Surrogate failed recovery limits.

10/16/11

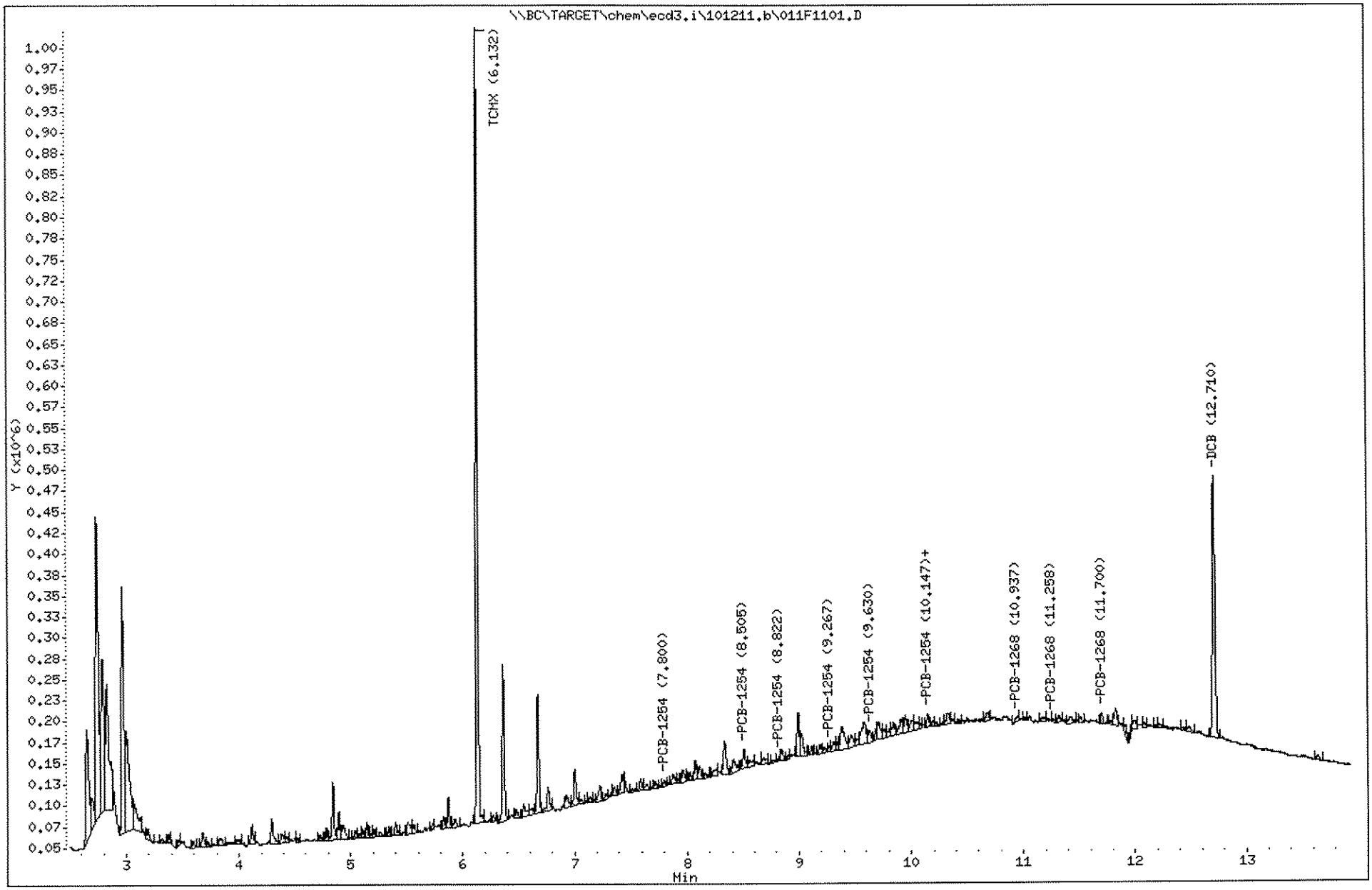
Data File: \\BC\TARGET\chem\ecd3.i\101211.b\011F1101.D
Date : 12-OCT-2011 16:23
Client ID:
Sample Info: 111003-07

Instrument: ecd3.i

Operator: EM

Column phase: ZB MR-1

Column diameter: 0.32



946

1110003

Data File: \\BC\TARGET\chem\ecd3.i\101211.b\011R1101.D

Date : 12-OCT-2011 16:23

Client ID:

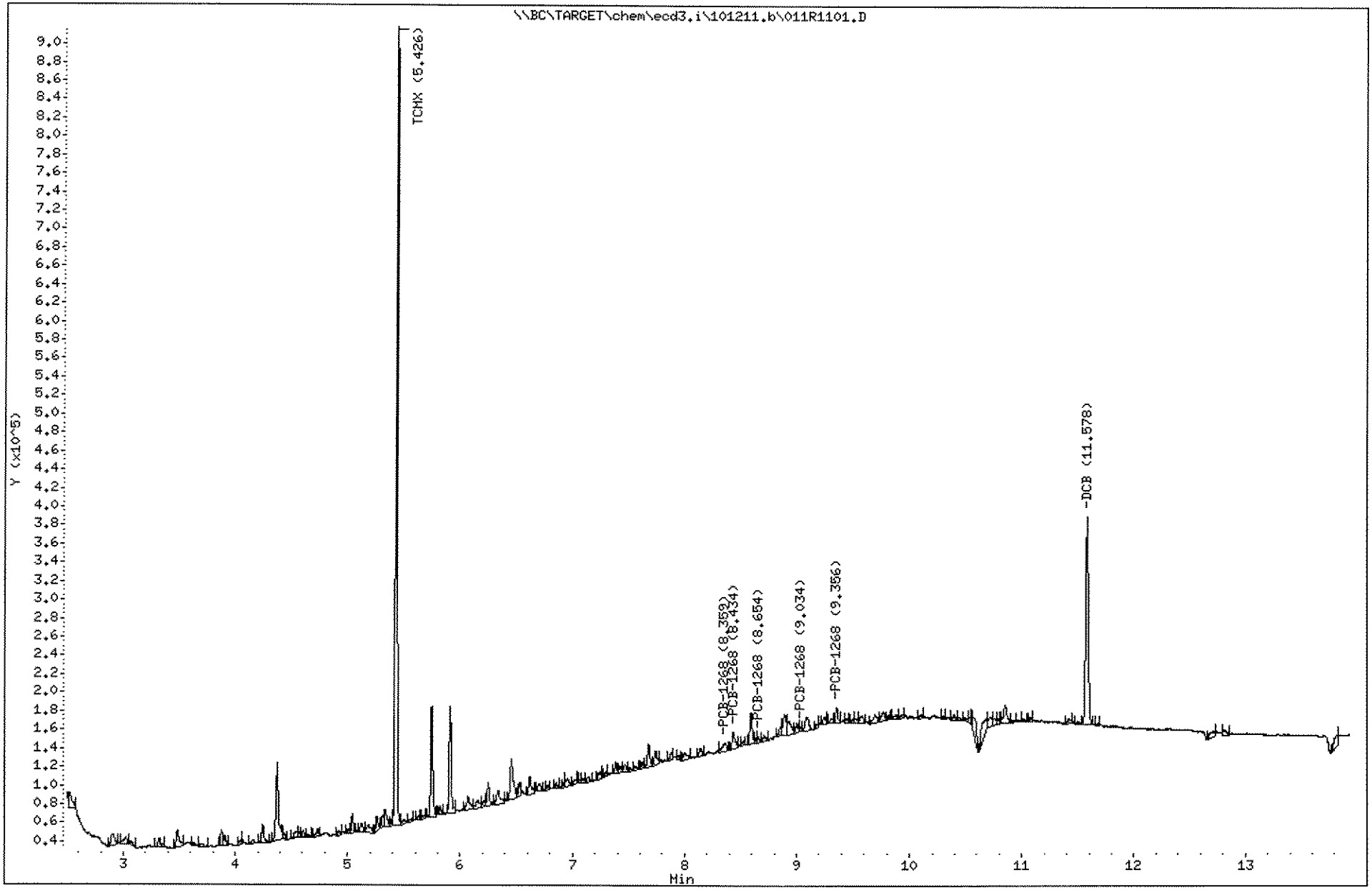
Sample Info: 111003-07

Column phase: ZB MR-2

Instrument: ecd3.i

Operator: EM

Column diameter: 0.32



J.H. 10.14.11

Empirical Laboratories, LLC

Sample #1 : \\BC\TARGET\chem\ecd3.i\101211.b\012F1201.D
Sample #2 : \\BC\TARGET\chem\ecd3.i\101211.b\012R1201.D
Inj Date : 12-OCT-2011 16:42
Sample Info: 111003-09
Misc Info : ;;;;;;PCB.sub
Cal Date : 13-OCT-2011 22:46
Operator : EM
Inst ID : ecd3.i
Dil Factor : 1.000000

Method #1 : \\BC\TARGET\chem\ecd3.i\101211.b\8081_82F.m
Method #2 : \\BC\TARGET\chem\ecd3.i\101211.b\8081_82R.m
Sub List #1 : PCB.sub
Sub List #2 : PCB.sub
Col #1 Phase : ZB MR-1
Col #2 Phase : ZB MR-2

Compound	RT#1	RT#2	Resp#1	Resp#2	Conc#1	Conc#2	Target Range	Ratio
TCMX	6.132	5.426	742411	620612	19.71	16.83		100.00(R)
DCB	12.708	11.576	274700	197676	7.341	6.309		100.00(R)

TCMX ⇒ $\frac{620612}{36869} = 16.83 \times 10\,mL \div 1000\,mL = 0.1683\,\mu g/L$

QC Flag Legend

R - Spike/Surrogate failed recovery limits.

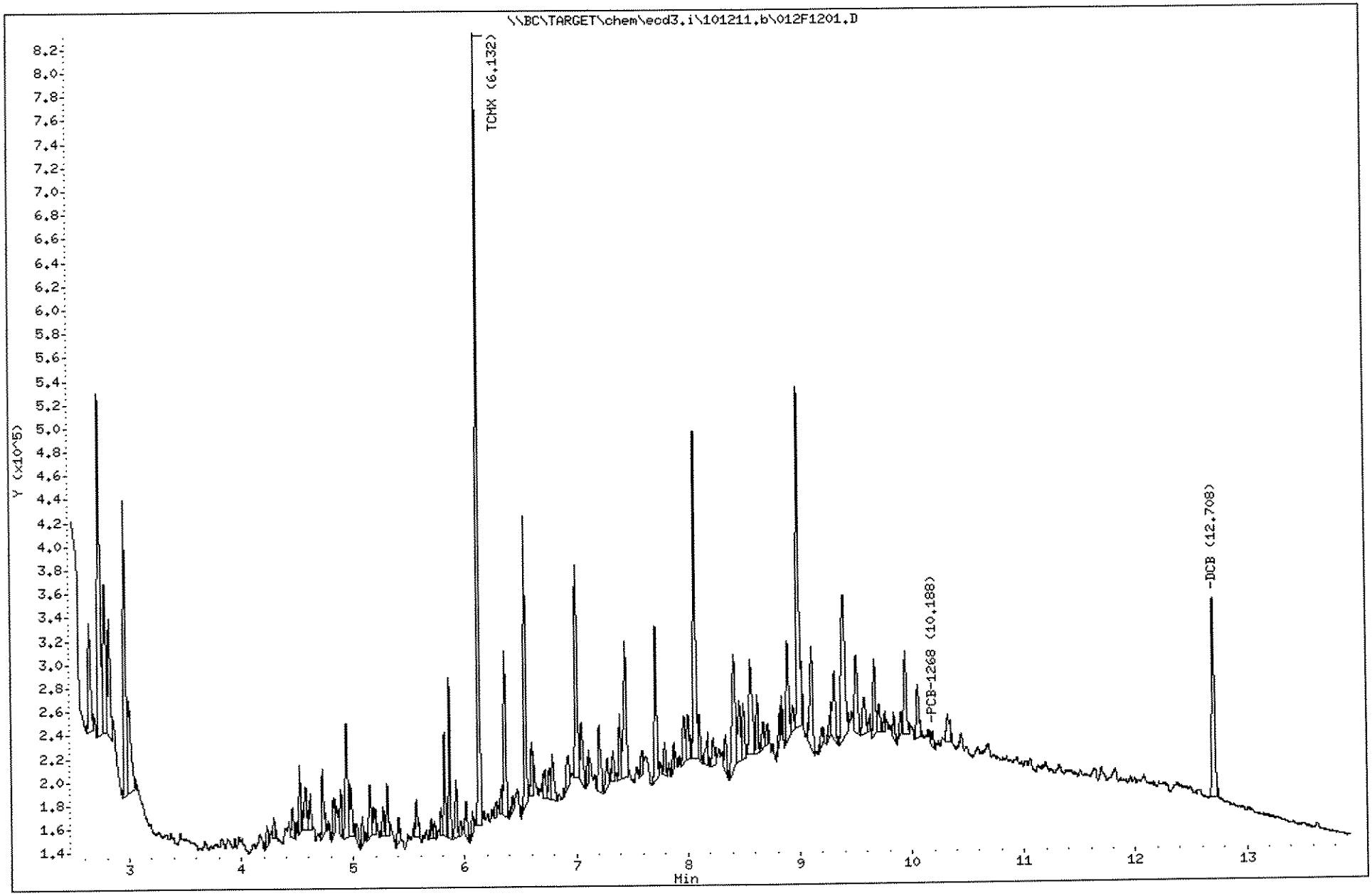
10/16/11

Data File: \\BC\TARGET\chem\ecd3.i\101211.b\012F1201.D
Date : 12-OCT-2011 16:42
Client ID:
Sample Info: 111003-09

Instrument: ecd3.i

Operator: EM
Column diameter: 0.32

Column phase: ZB MR-1



Data File: \\BC\TARGET\chem\ecd3.i\101211.b\012R1201.D

Date : 12-OCT-2011 16:42

Client ID:

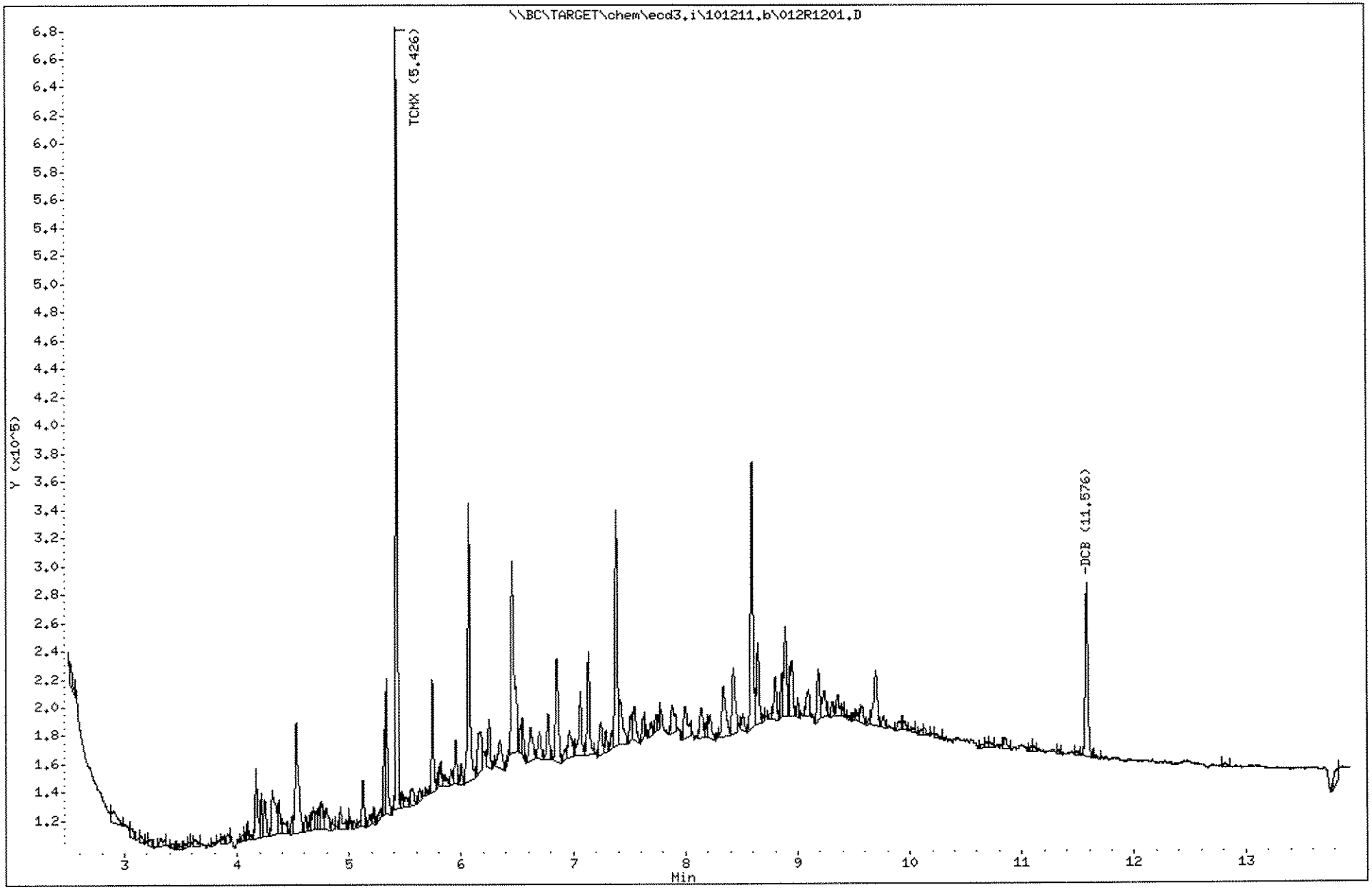
Sample Info: 111003-09

Column phase: ZB MR-2

Instrument: ecd3.i

Operator: EM

Column diameter: 0.32



J.H. 10.14.11

Empirical Laboratories, LLC

Sample #1 : \\BC\TARGET\chem\ecd3.i\101211.b\013F1301.D
Sample #2 : \\BC\TARGET\chem\ecd3.i\101211.b\013R1301.D
Inj Date : 12-OCT-2011 17:01
Sample Info: 111003-11
Misc Info : ;;;;;;PCB.sub
Cal Date : 13-OCT-2011 22:46
Operator : EM
Inst ID : ecd3.i
Dil Factor : 1.000000

Method #1 : \\BC\TARGET\chem\ecd3.i\101211.b\8081_82F.m
Method #2 : \\BC\TARGET\chem\ecd3.i\101211.b\8081_82R.m
Sub List #1 : PCB.sub
Sub List #2 : PCB.sub
Col #1 Phase : ZB MR-1
Col #2 Phase : ZB MR-2

Compound	RT#1	RT#2	Resp#1	Resp#2	Conc#1	Conc#2	Target Range	Ratio
TCMX	6.130	5.426	1333130	1366426	35.38	37.06		100.00(R)
DCB	12.710	11.579	527220	424364	14.09	15.02		100.00(R)

QC Flag Legend

R - Spike/Surrogate failed recovery limits.

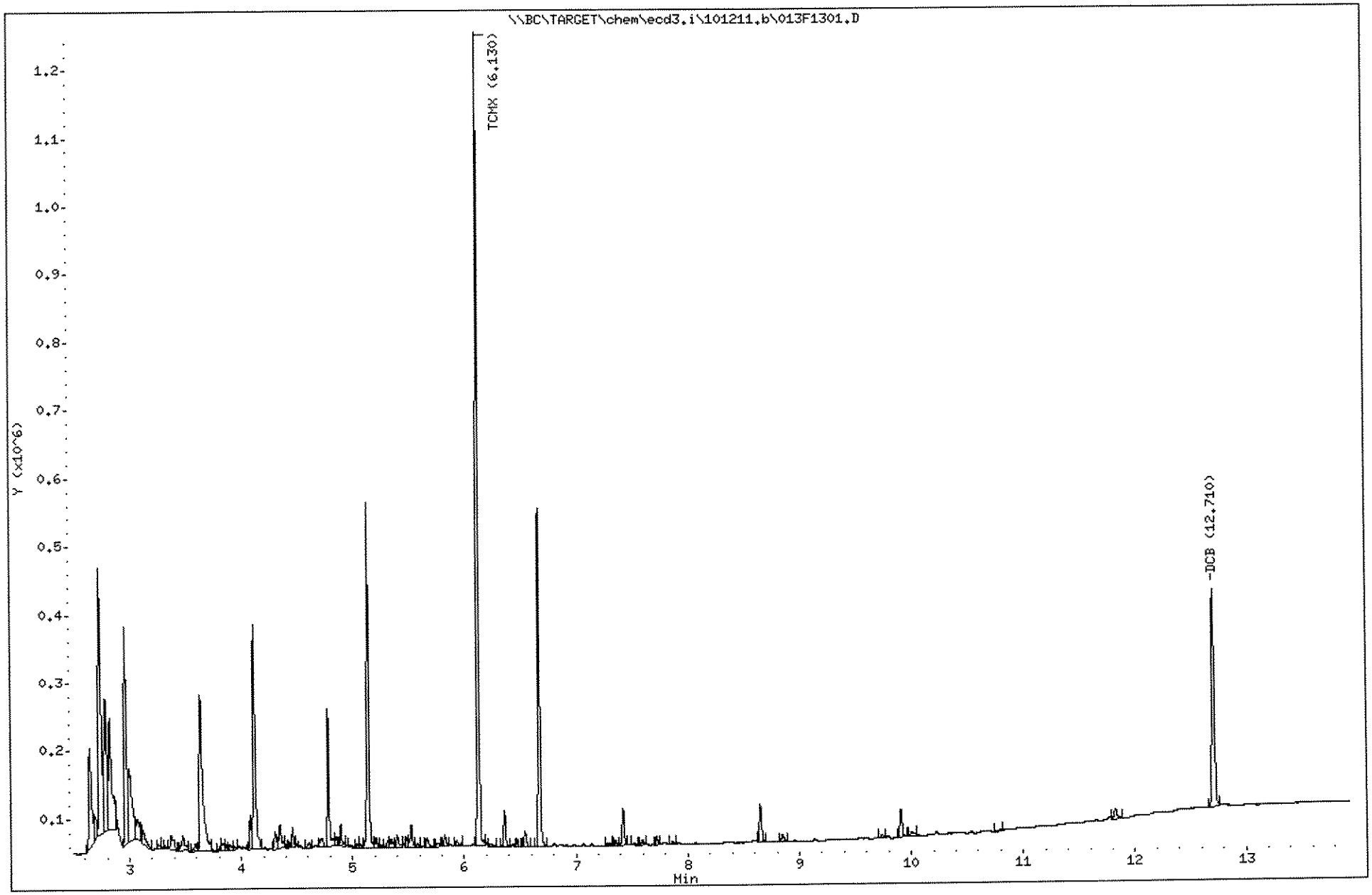
10/16/11

Data File: \\BC\TARGET\chem\ecd3.i\101211.b\013F1301.D
Date : 12-OCT-2011 17:01
Client ID:
Sample Info: 111003-11

Instrument: ecd3.i

Operator: EM
Column diameter: 0.32

Column phase: ZB MR-1

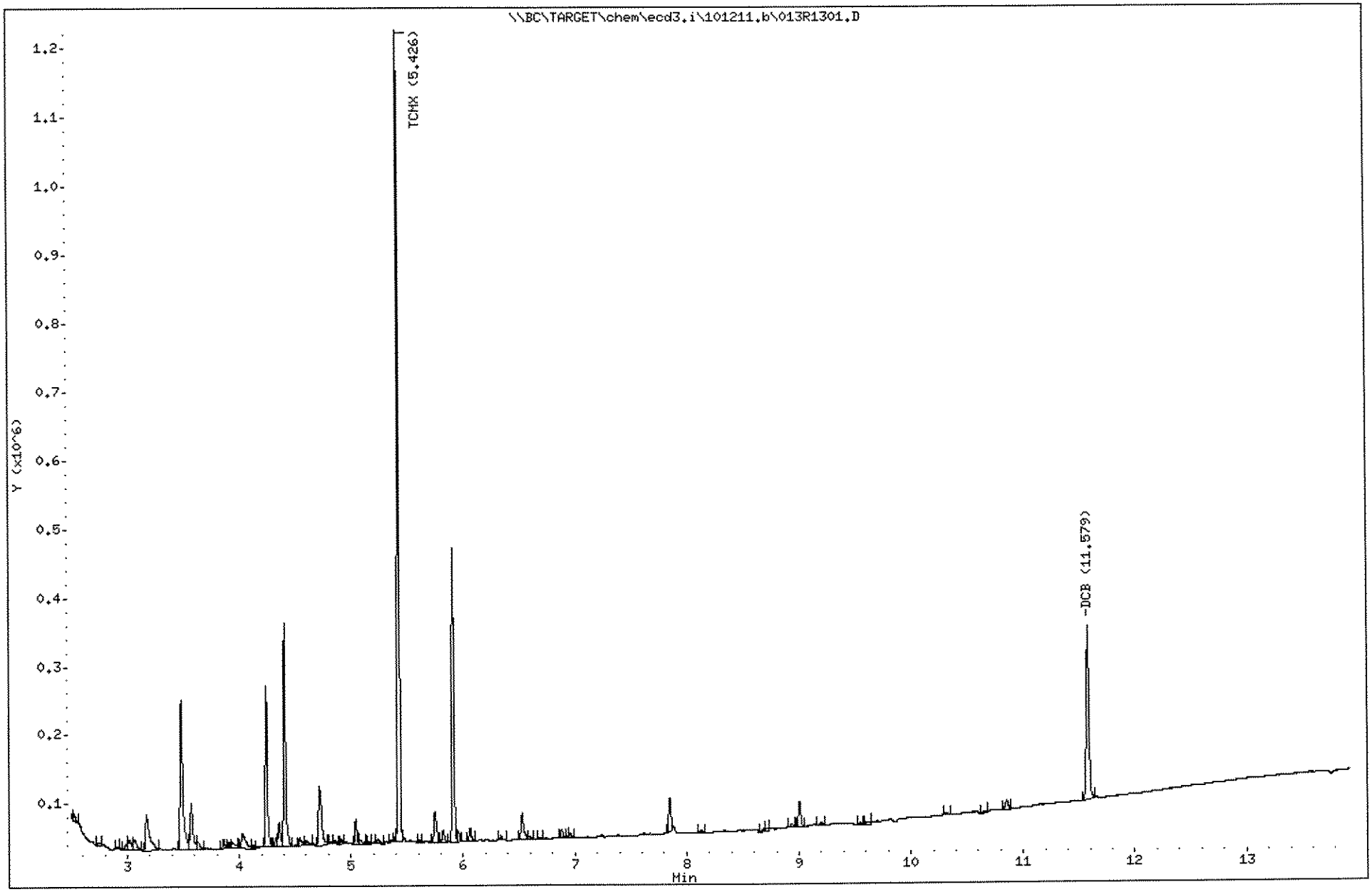


Data File: \\BC\TARGET\chem\ecd3.i\101211.b\013R1301.D
Date : 12-OCT-2011 17:01
Client ID:
Sample Info: 111003-11

Instrument: ecd3.i

Operator: EM
Column diameter: 0.32

Column phase: ZB MR-2



J.H. 10.14.11

Empirical Laboratories, LLC

Sample #1 : \\BC\TARGET\chem\ecd3.i\101211.b\014F1401.D
Sample #2 : \\BC\TARGET\chem\ecd3.i\101211.b\014R1401.D
Inj Date : 12-OCT-2011 17:20
Sample Info: 111003-12
Misc Info : ;;;;;;PCB.sub
Cal Date : 13-OCT-2011 22:46
Operator : EM
Inst ID : ecd3.i
Dil Factor : 1.000000

Method #1 : \\BC\TARGET\chem\ecd3.i\101211.b\8081_82F.m
Method #2 : \\BC\TARGET\chem\ecd3.i\101211.b\8081_82R.m
Sub List #1 : PCB.sub
Sub List #2 : PCB.sub
Col #1 Phase : ZB MR-1
Col #2 Phase : ZB MR-2

Compound	RT#1	RT#2	Resp#1	Resp#2	Conc#1	Conc#2	Target Range	Ratio	
PCB-1016	7.516	0.000	58512	0	34.04	0.0000	80.00- 120.00	100.00	N.R.
	6.933	0.000	277215	0	329.6	0.0000	36.56- 54.84	473.77	
	7.178	0.000	209120	0	257.2	0.0000	36.34- 54.51	357.40	
	7.475	0.000	157302	0	127.6	0.0000	54.97- 82.45	268.84	
	7.598	0.000	65584	0	0.0000	0.0000	44.56- 66.83	112.09	
	7.676	0.000	41161	0	49.81	0.0000	35.89- 53.83	70.35	
		Average of Peak Amounts =			159.6	0.0000			
PCB-1254	9.255	0.000	175193	0	80.10	0.0000	80.00- 120.00	100.00(M)	NC
	7.786	0.000	49867	0	68.19	0.0000	26.65- 39.97	28.46(M)	
	8.496	0.000	354931	0	0.0000	0.0000	48.84- 73.25	202.59(M)	
	8.781	0.000	720902	0	343.5	0.0000	72.27- 108.41	411.49(M)	
	9.628	0.000	165437	0	97.06	0.0000	61.52- 92.28	94.43(M)	
	10.148	0.000	179213	0	98.74	0.0000	66.27- 99.41	102.29(M)	
		Average of Peak Amounts =			137.5	0.0000 NC			
TCMX	6.131	5.426	922309	641614	24.48	17.40		100.00(R)	
DCB	12.708	11.579	377679	221028	10.09	7.207		100.00(R)	

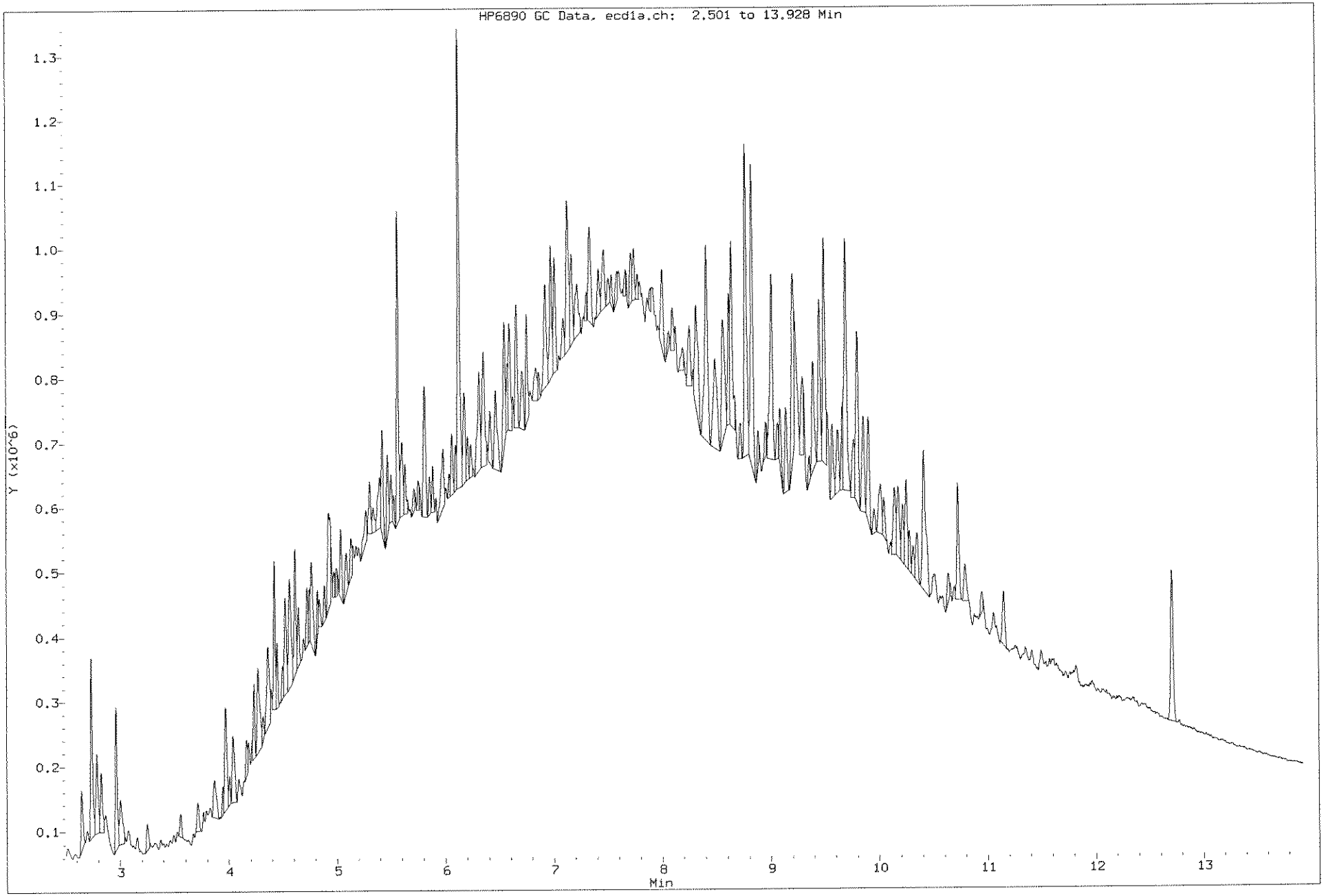
QC Flag Legend

* RAISE DL/LOD/LOQ FOR ALL PCB'S DUE TO SAMPLE MATRIX *

R - Spike/Surrogate failed recovery limits.
M - Compound response manually integrated.

10/16/11

Data File: \\BC\TARGET\chem\ecd3.i\101211.b\014F1401.D
Injection Date: 12-OCT-2011 17:20
Instrument: ecd3.i
Client Sample ID:

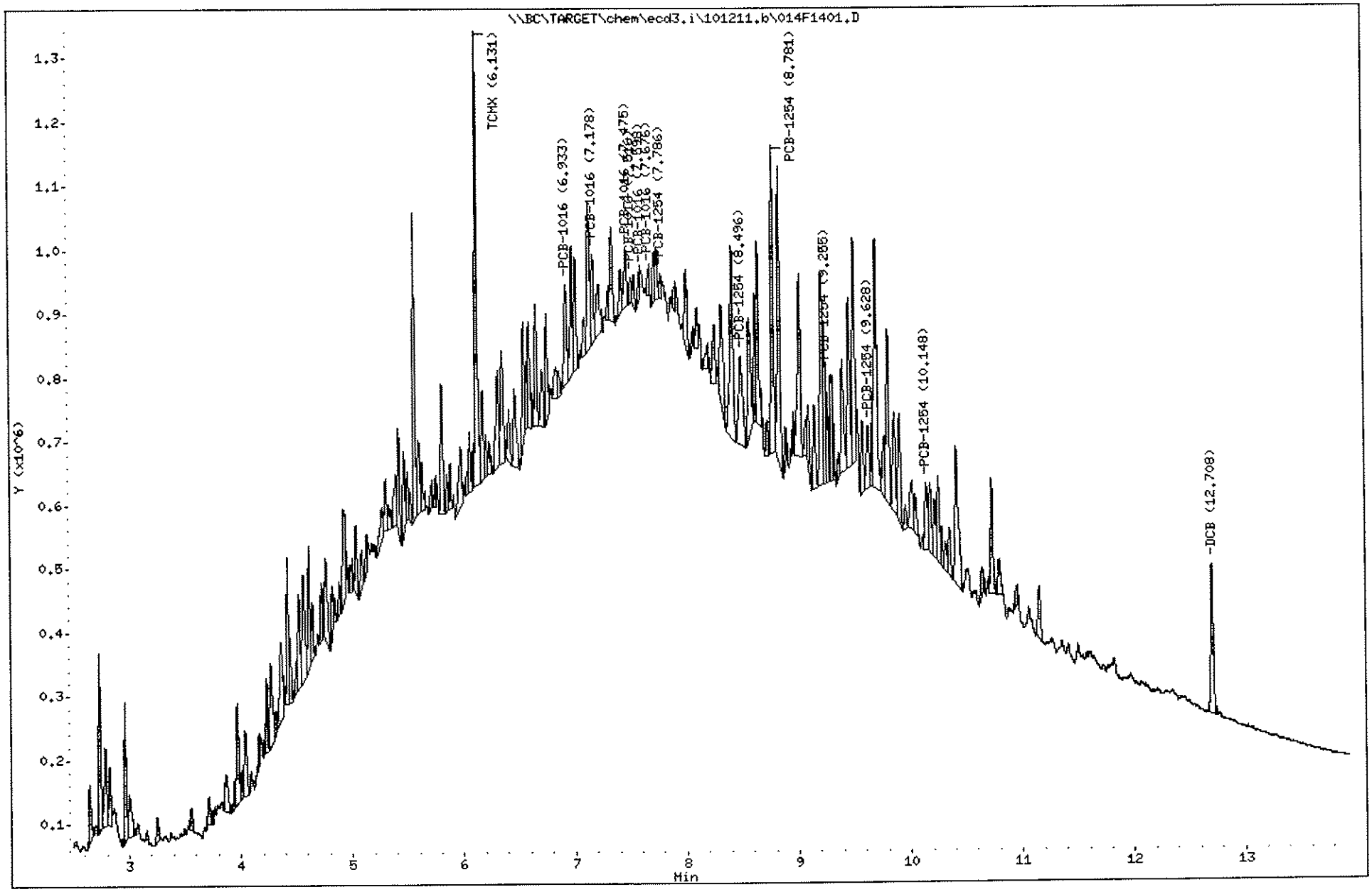


Data File: \\BC\TARGET\chem\ecd3.i\101211.b\014F1401.D
Date : 12-OCT-2011 17:20
Client ID:
Sample Info: 111003-12

Column phase: ZB MR-1

Instrument: ecd3.i

Operator: EM
Column diameter: 0.32



956

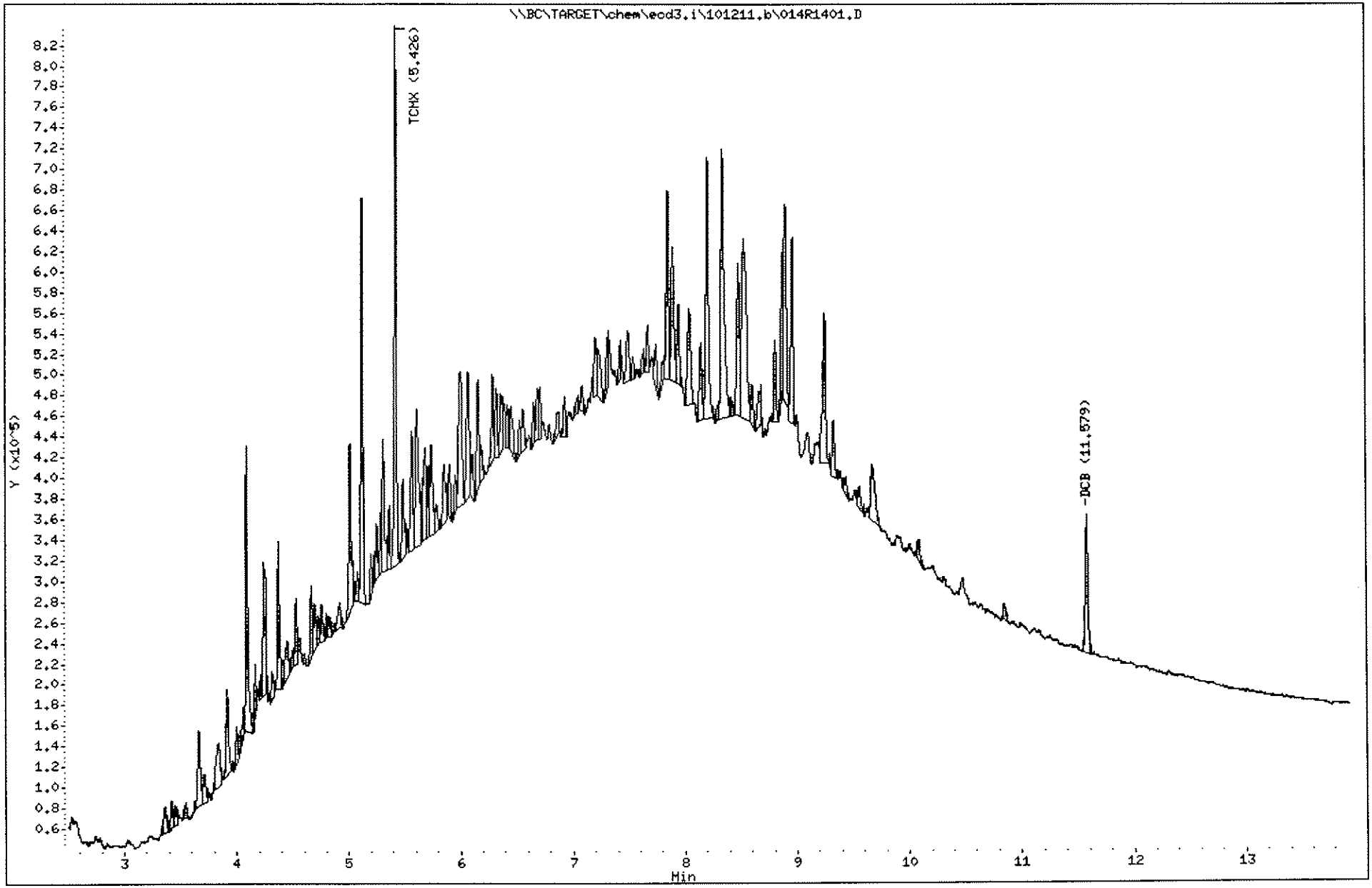
1110003

Data File: \\BC\TARGET\chem\ecd3.i\101211.b\014R1401.D
Date : 12-OCT-2011 17:20
Client ID:
Sample Info: 111003-12

Column phase: ZB MR-2

Instrument: ecd3.i

Operator: EM
Column diameter: 0.32



J.H. 10.14.11

Empirical Laboratories, LLC

Sample #1 : \\BC\TARGET\chem\ecd3.i\101211.b\017F1701.D
Sample #2 : \\BC\TARGET\chem\ecd3.i\101211.b\017R1701.D
Inj Date : 12-OCT-2011 18:16
Sample Info: 1J04002-MS2
Misc Info : ;;;;;;PCB.sub
Cal Date : 14-OCT-2011 08:46
Operator : EM
Inst ID : ecd3.i
Dil Factor : 1.000000

Method #1 : \\BC\TARGET\chem\ecd3.i\101211.b\8081_82F.m
Method #2 : \\BC\TARGET\chem\ecd3.i\101211.b\8081_82R.m
Sub List #1 : PCB.sub
Sub List #2 : PCB.sub
Col #1 Phase : ZB MR-1
Col #2 Phase : ZB MR-2

Compound	RT#1	RT#2	Resp#1	Resp#2	Conc#1	Conc#2	Target Range	Ratio
PCB-1016	7.507	6.686	131049	137748	76.23	113.1	80.00- 120.00	100.00
	6.934	5.856	264835	83570	314.9		36.40- 54.59	202.09
	7.139	6.401	412253	65224	506.9	95.03	35.27- 52.91	314.58
	7.477	6.658	157676	99740	127.9	104.8	55.40- 83.09	120.32
	7.582	6.883	127434	39624		61.28	38.94- 58.41	28.77
	7.670	6.988	51875	47510	62.78	71.16	34.81- 52.22	39.58
		Average of Peak Amounts = 88.97			217.7	89.07		
PCB-1260	10.952	9.833	419233	178725	102.1	71.60	80.00- 120.00	100.00
	9.462	8.715	615574	100260		65.23	45.67- 68.51	56.10
	9.805	8.896	652465	550047	204.0	385.2	44.09- 66.14	155.63
	10.157	9.133	354573	96894	145.2	63.88	48.27- 72.40	84.58
	10.259	9.183	264166	93535	150.4		33.85- 50.78	63.01
	10.549	9.515	88513	87326		78.81	32.25- 48.37	48.86
	11.320	10.283	145337	138027			53.56- 80.34	77.23
	12.072	10.933	70210	42354	64.98		18.63- 27.94	16.75
		Average of Peak Amounts = 115.7			152.3	132.9 69.88		
TCMX	6.130	5.426	834966	582007	22.16	15.78		100.00(R)
DCB	12.710	11.578	259231	150179	6.927	4.484		100.00(R)

QC Flag Legend

R - Spike/Surrogate failed recovery limits.

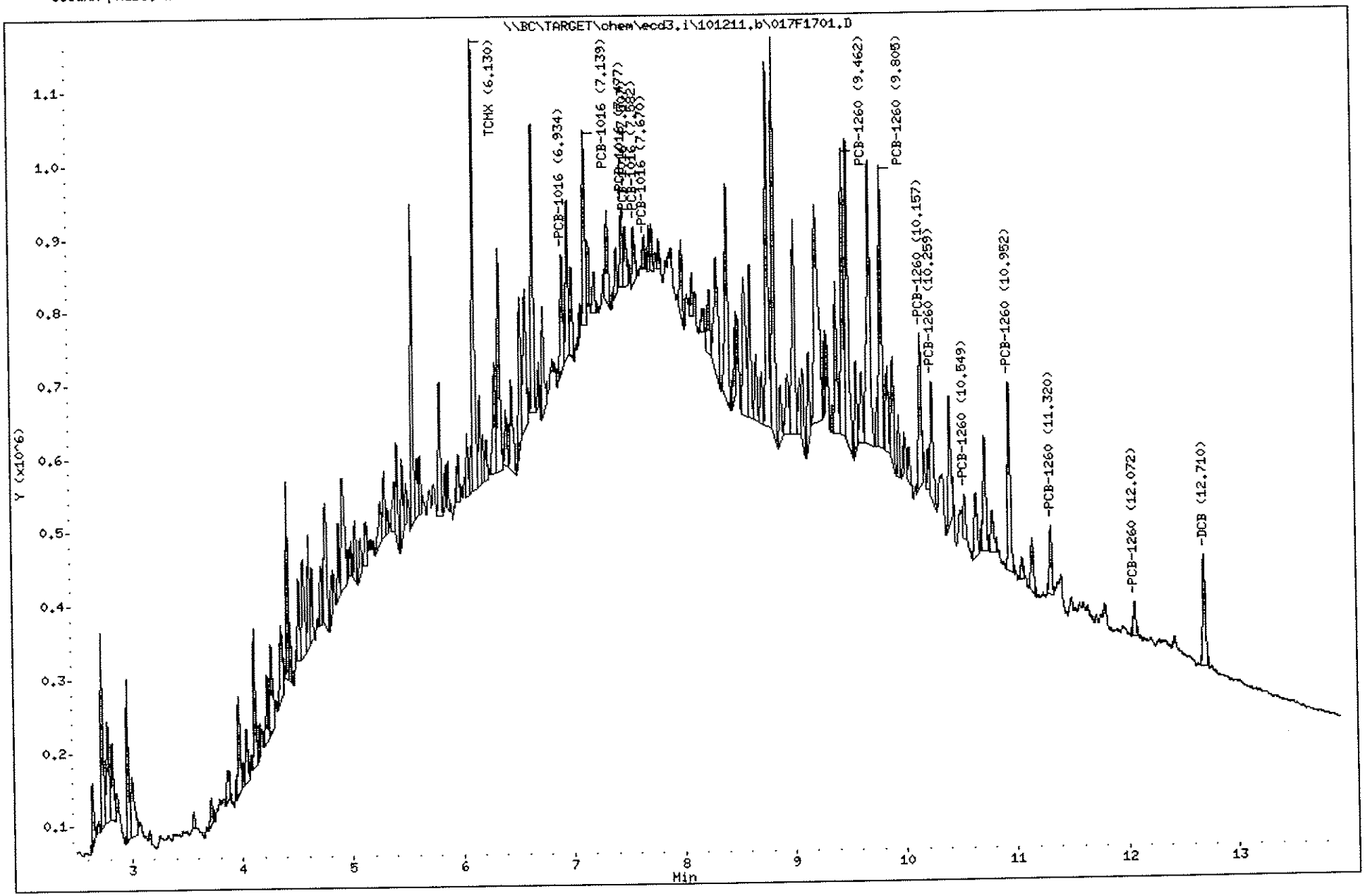
10/16/11

Data File: \\BC\TARGET\chem\ecd3.i\101211.b\017F1701.D
Date : 12-OCT-2011 18:16
Client ID:
Sample Info: 1J04002-MS2

Column phase: ZB MR-1

Instrument: ecd3.i

Operator: EH
Column diameter: 0.32



959

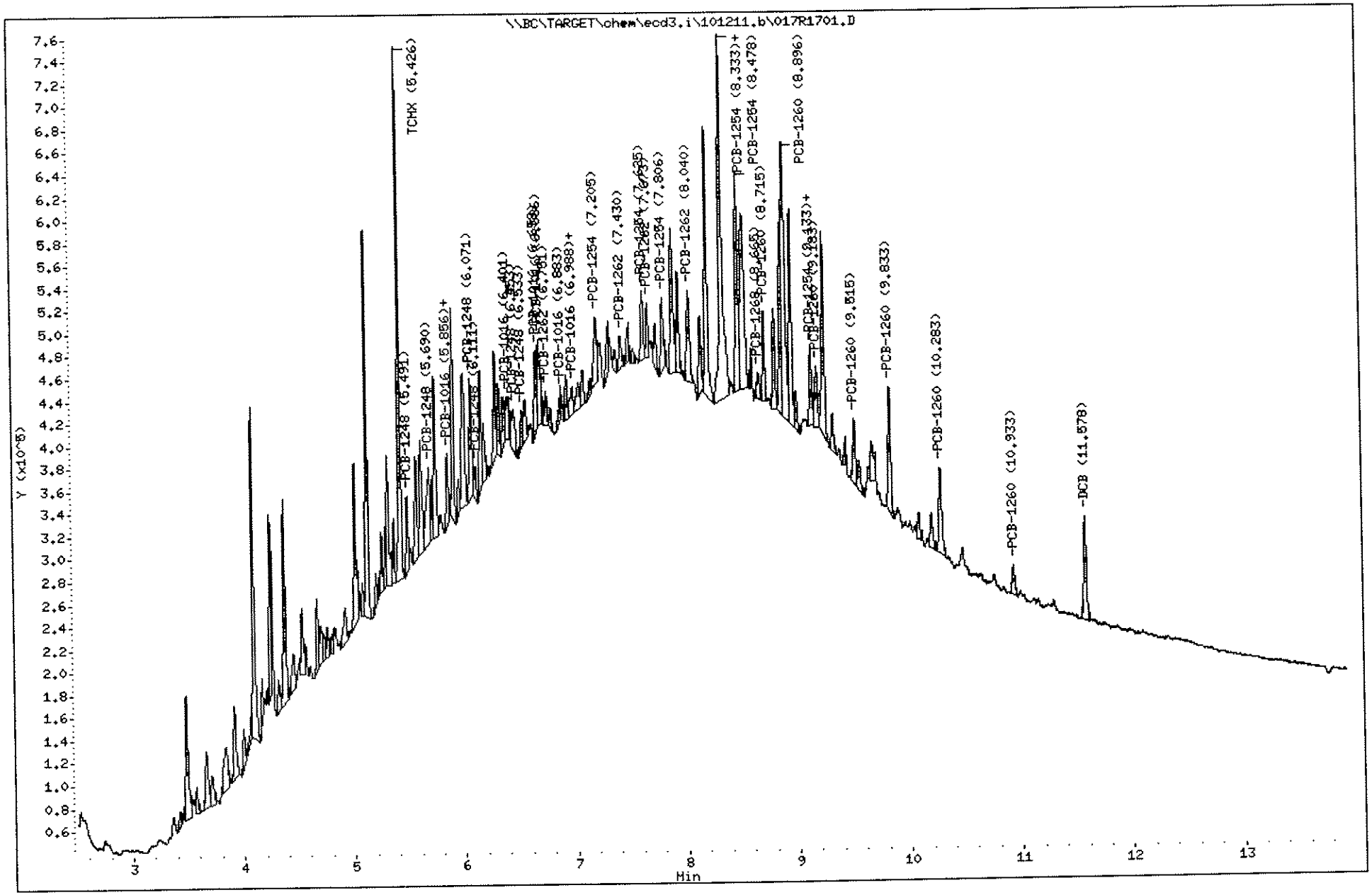
1110003

Data File: \\BC\TARGET\chem\ecd3.i\101211.b\017R1701.D
Date : 12-OCT-2011 18:16
Client ID:
Sample Info: 1J04002-MS2

Instrument: ecd3.i

Operator: EM
Column diameter: 0.32

Column phase: ZB MR-2



J.H. 10.14.11

Empirical Laboratories, LLC

Sample #1 : \\BC\TARGET\chem\ecd3.i\101211.b\018F1801.D
Sample #2 : \\BC\TARGET\chem\ecd3.i\101211.b\018R1801.D
Inj Date : 12-OCT-2011 18:35
Sample Info: 1J04002-MSD2
Misc Info : ;;;;;;PCB.sub
Cal Date : 13-OCT-2011 22:46
Operator : EM
Inst ID : ecd3.i
Dil Factor : 1.000000

Method #1 : \\BC\TARGET\chem\ecd3.i\101211.b\8081_82F.m
Method #2 : \\BC\TARGET\chem\ecd3.i\101211.b\8081_82R.m
Sub List #1 : PCB.sub
Sub List #2 : PCB.sub
Col #1 Phase : ZB MR-1
Col #2 Phase : ZB MR-2

Compound	RT#1	RT#2	Resp#1	Resp#2	Conc#1	Conc#2	Target Range	Ratio
PCB-1016	7.507	6.686	133069	107789	77.40	88.48	80.00- 120.00	100.00
	6.935	5.858	279691	77880	322.5		36.56- 54.84	210.18
	7.138	6.403	352499	123860	433.5	190.5	36.34- 54.51	264.90
	7.477	6.658	132508	85573	107.5	89.94	54.97- 82.45	99.58
	7.582	6.888	111093	20100		31.08	33.34- 50.01	18.65
	7.680	6.989	79640	18742	96.38	28.07	35.89- 53.83	59.85
		Average of Peak Amounts =			209.4	82.61	93.74 59.39	
PCB-1260	10.953	9.834	411372	167522	100.2	67.11	80.00- 120.00	100.00
	9.462	8.716	664446	100435		65.34	46.36- 69.53	59.95
	9.808	8.898	798107	487302	359.6	341.3	43.68- 65.52	194.01
	10.153	9.133	401000	109469	164.2	72.17	47.59- 71.39	97.48
	10.260	9.184	241562	122572	137.6		33.67- 50.50	58.72
	10.548	9.518	109921	92545		83.52	34.51- 51.76	55.24
	11.323	10.283	125351	132518			52.50- 78.75	79.10
	12.072	10.933	33686	42408	31.18		20.94- 31.41	8.19
		Average of Peak Amounts =			158.6	125.9	108.3 72.04	
TCMX	6.132	5.426	663181	453653	17.60	12.30		100.00(R)
DCB	12.710	11.579	308383	166122	8.241	5.097		100.00(R)

QC Flag Legend

R - Spike/Surrogate failed recovery limits.

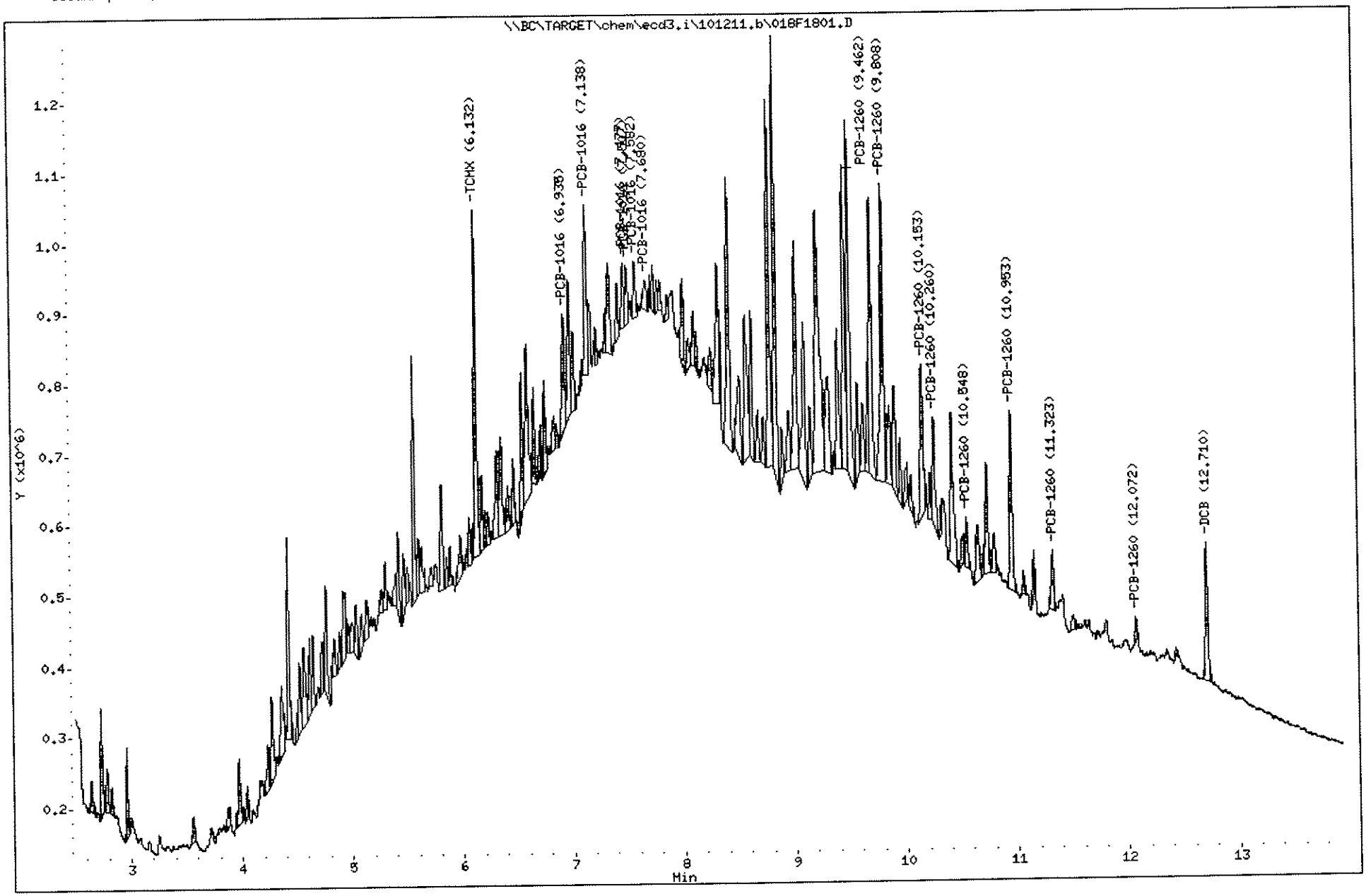
10/16/11

Data File: \\BC\TARGET\chem\ecd3.i\101211.b\018F1801.D
Date : 12-OCT-2011 18:35
Client ID:
Sample Info: 1J04002-MSD2

Instrument: ecd3.i

Operator: EH
Column diameter: 0.32

Column phase: ZB MR-1



962

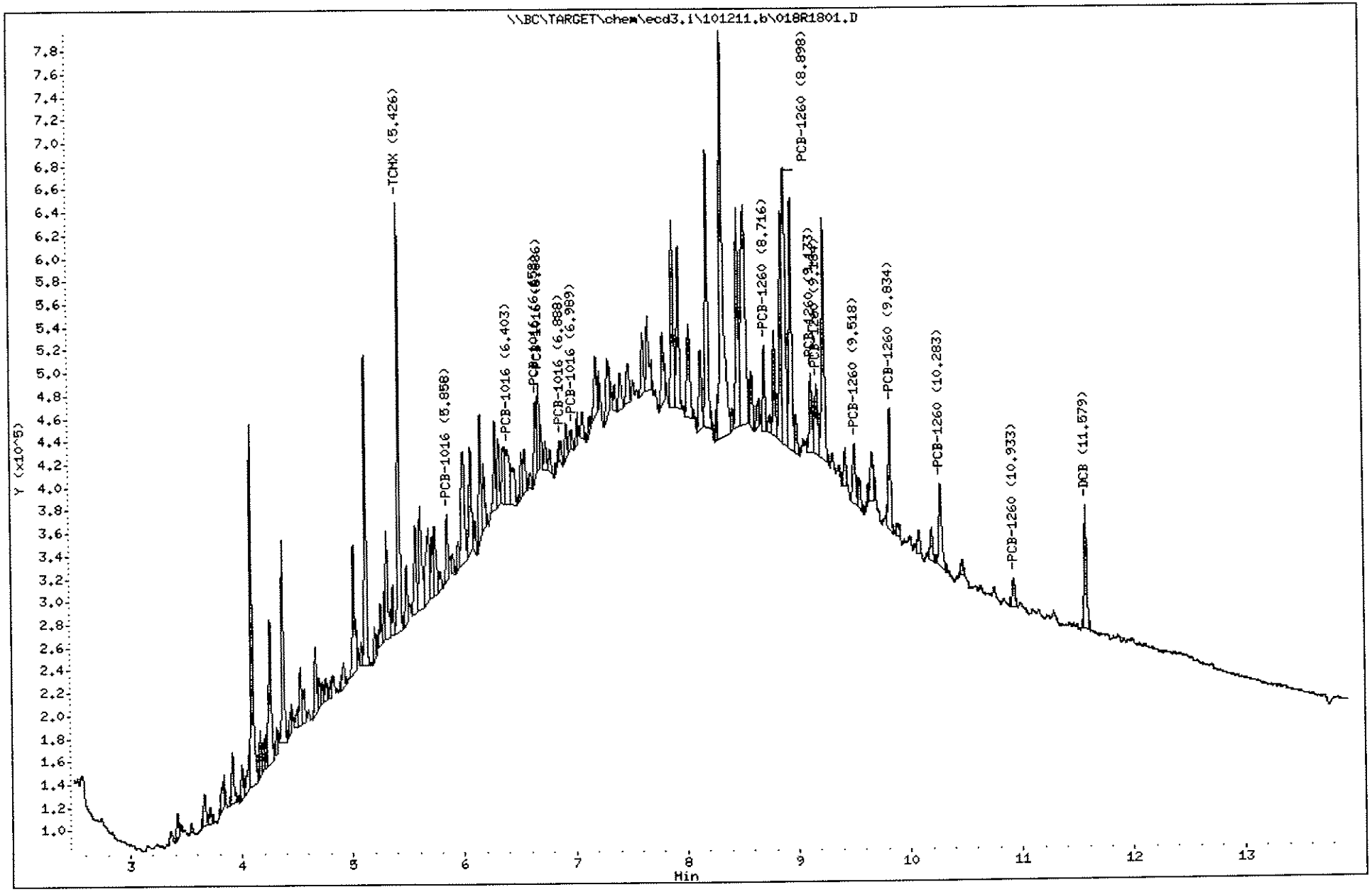
1110003

Data File: \\BC\TARGET\chem\ecd3.i\101211.b\018R1801.D
Date : 12-OCT-2011 18:35
Client ID:
Sample Info: 1J04002-MSD2

Instrument: ecd3.i

Operator: EM
Column diameter: 0.32

Column phase: ZB MR-2



— RE-EX'D —

Data File: \\BC\TARGET\chem\ecd3.i\101211.b\019F1901.D
Report Date: 13-Oct-2011 22:55

J.H. 10.14.11

Empirical Laboratories, LLC

Sample #1 : \\BC\TARGET\chem\ecd3.i\101211.b\019F1901.D
Sample #2 : \\BC\TARGET\chem\ecd3.i\101211.b\019R1901.D
Inj Date : 12-OCT-2011 18:54
Sample Info: 111003-14
Misc Info : ;;;;;;PCB.sub
Cal Date : 13-OCT-2011 22:46
Operator : EM
Inst ID : ecd3.i
Dil Factor : 1.000000

Method #1 : \\BC\TARGET\chem\ecd3.i\101211.b\8081_82F.m
Method #2 : \\BC\TARGET\chem\ecd3.i\101211.b\8081_82R.m
Sub List #1 : PCB.sub
Sub List #2 : PCB.sub
Col #1 Phase : ZB MR-1
Col #2 Phase : ZB MR-2

Compound	RT#1	RT#2	Resp#1	Resp#2	Conc#1	Conc#2	Target Range	Ratio	
PCB-1254	9.226	0.000	184670	0	84.43	0.0000	80.00- 120.00	100.00	NC
	7.788	0.000	41754	0	57.10	0.0000	26.65- 39.97	22.61	
	8.508	0.000	60594	0	0.0000	0.0000	48.84- 73.25	32.81	
	8.781	0.000	137469	0	65.50	0.0000	72.27- 108.41	74.44	
	9.625	0.000	100614	0	59.03	0.0000	61.52- 92.28	54.48	
	10.180	0.000	33581	0	18.50	0.0000	66.27- 99.41	18.18	
			Average of Peak Amounts =		56.91	0.0000	NC		
TCMX	6.131	5.426	846292	712776	22.46	19.33		100.00(R)	
DCB	12.711	11.577	260708	159002	6.967	4.823	< 10% RPD.	100.00(R)	

QC Flag Legend

R - Spike/Surrogate failed recovery limits.

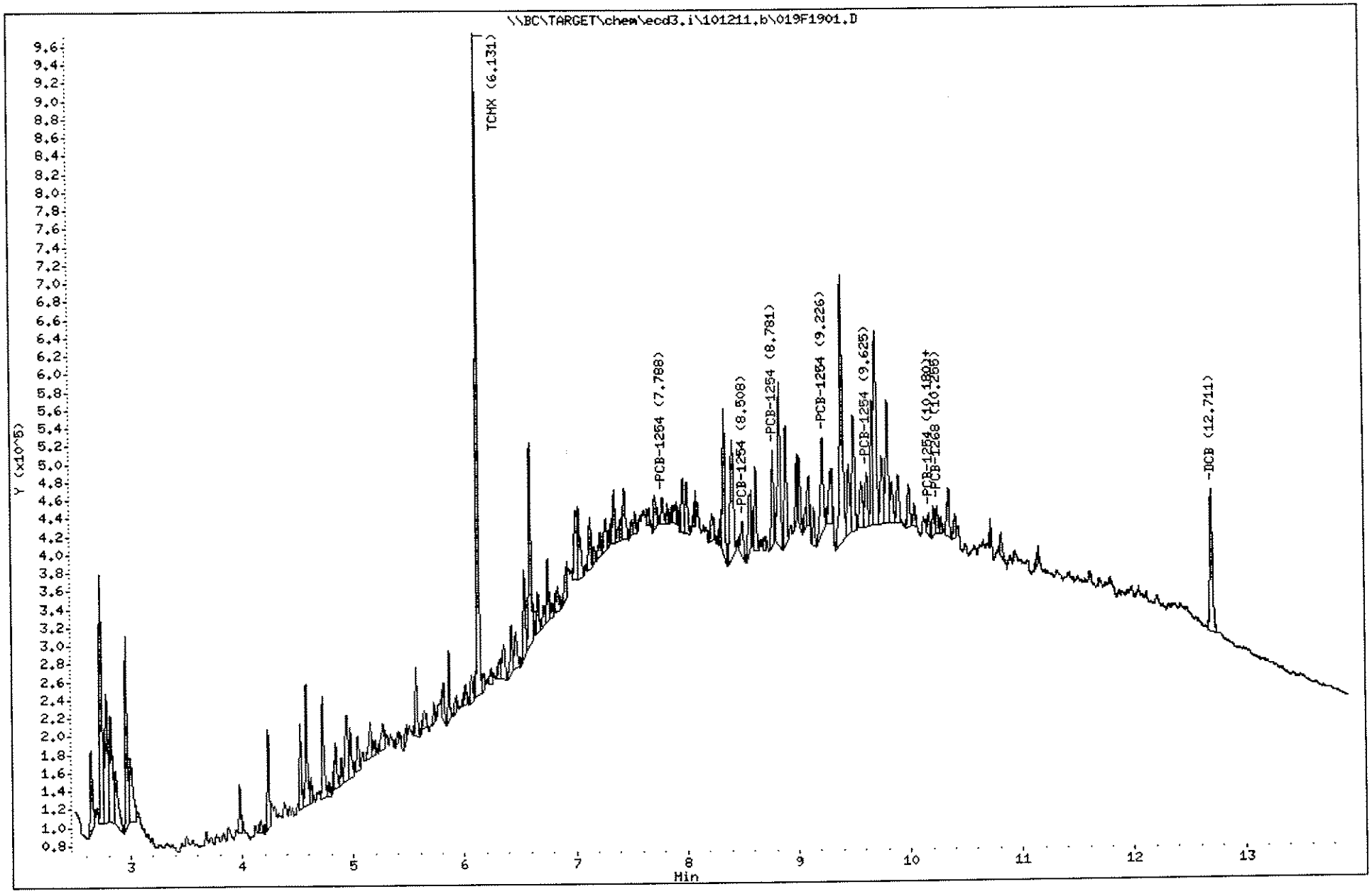
10/16/11

Data File: \\BC\TARGET\chem\ecd3.i\101211.b\019F1901.D
Date : 12-OCT-2011 18:54
Client ID:
Sample Info: 111003-14

Instrument: ecd3.i

Operator: EM
Column diameter: 0.32

Column phase: ZB MR-1

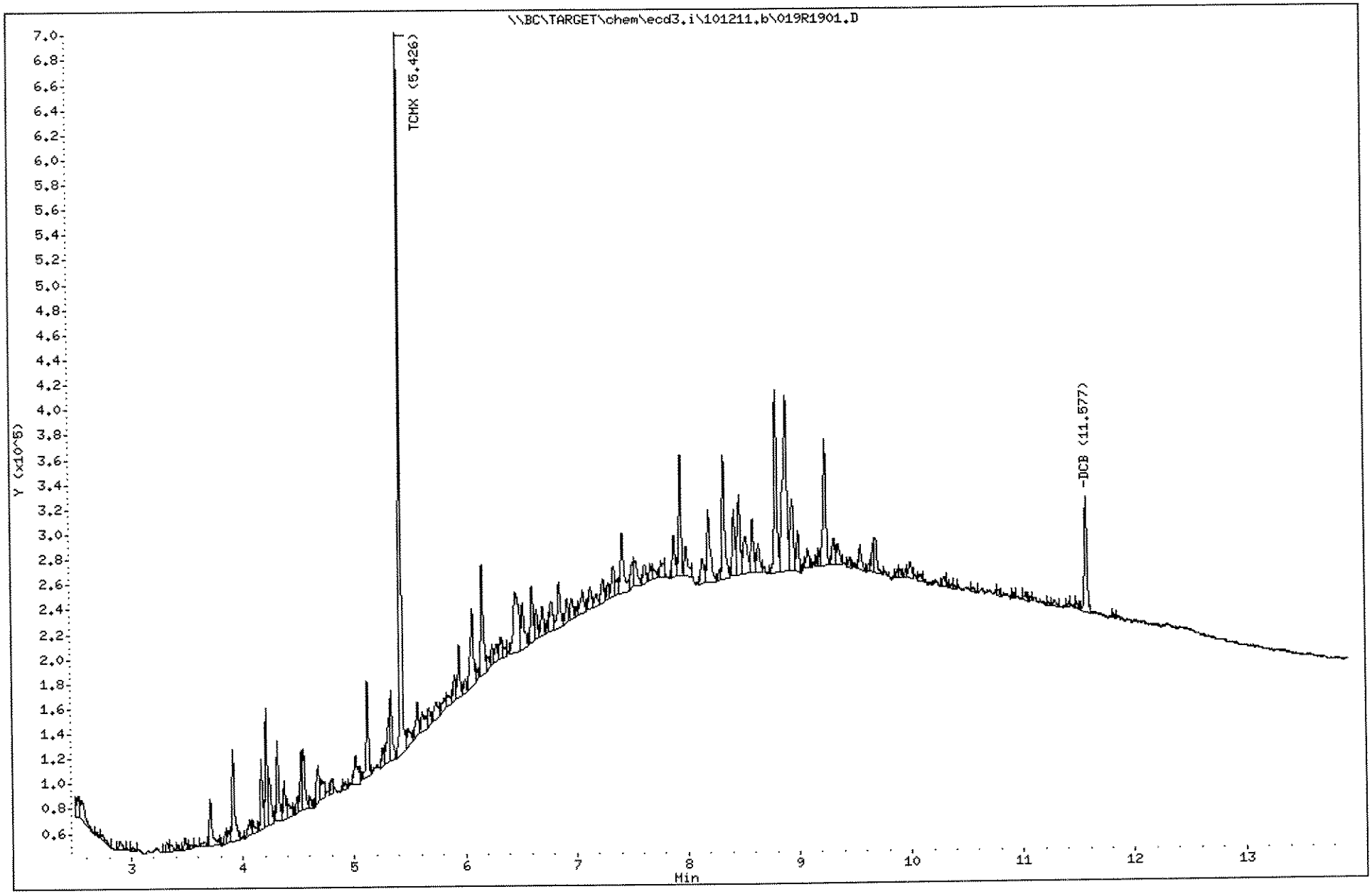


Data File: \\BC\TARGET\chem\ecd3.i\101211.b\019R1901.D
Date : 12-OCT-2011 18:54
Client ID:
Sample Info: 111003-14

Column phase: ZB MR-2

Instrument: ecd3.i

Operator: EM
Column diameter: 0.32



966

1110003

JH. 10.14.11

Empirical Laboratories, LLC

SW-846 METHODS 8081A/8082

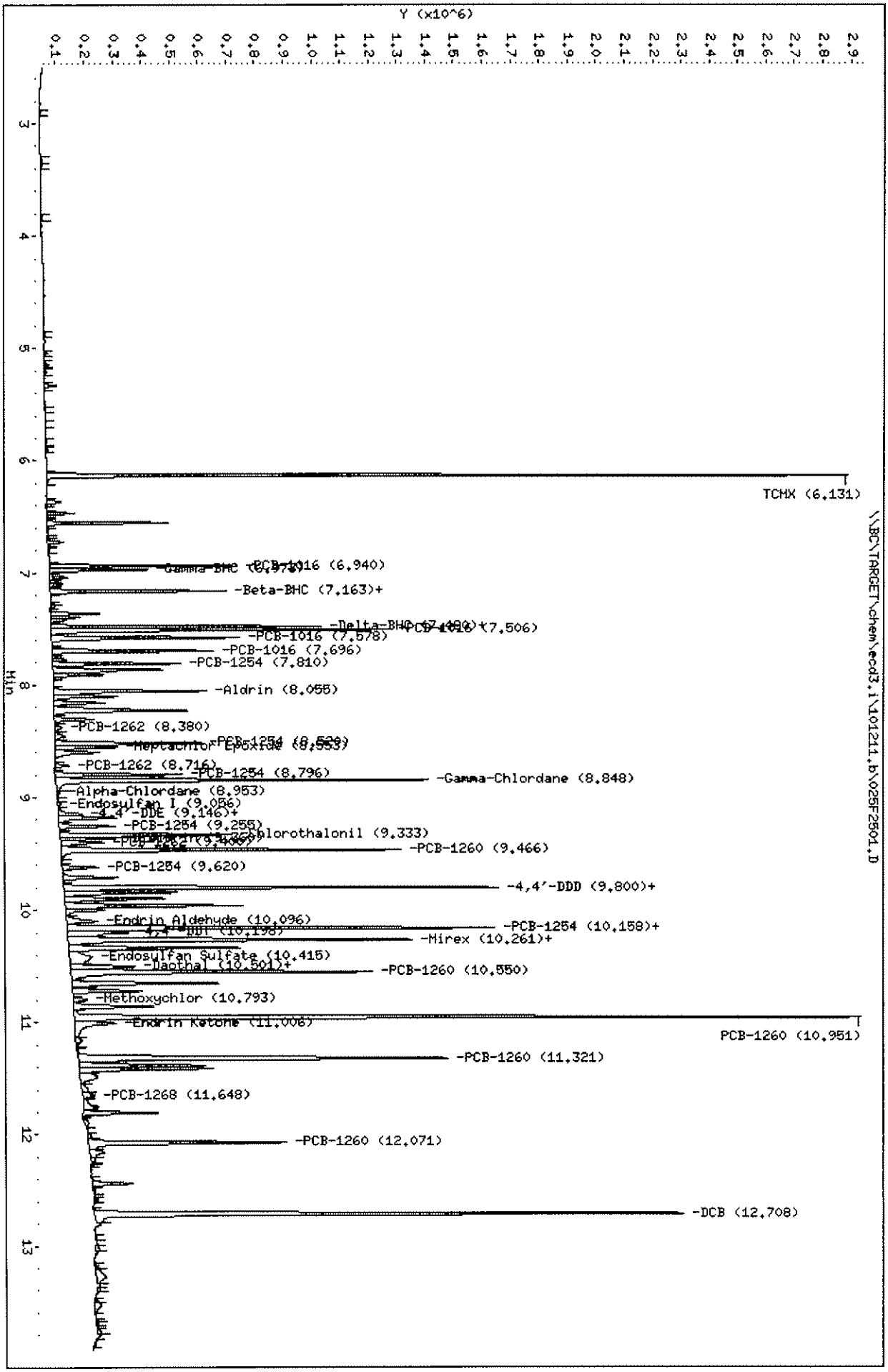
Data file : \\BC\TARGET\chem\ecd3.i\101211.b\025F2501.D
Lab Smp Id: SEQ-CCV3
Inj Date : 12-OCT-2011 20:46
Operator : EM
Inst ID: ecd3.i
Smp Info : SEQ-CCV3
Misc Info : ;;;;;;1660D.sub
Comment :
Method : \\BC\TARGET\chem\ecd3.i\101211.b\8081_82F.m
Meth Date : 13-Oct-2011 22:58 jeh
Quant Type: ESTD
Cal Date : 10-AUG-2011 19:35
Cal File: 002F0101.D
Als bottle: 25
Continuing Calibration Sample
Dil Factor: 1.00000
Integrator: Falcon
Compound Sublist: 1660d.sub
Target Version: 4.04
Sample Matrix: None
Processing Host: NSH-LAPTOP1

RT	EXP RT	DLT RT	RESPONSE	AMOUNTS CAL-AMT (ng/mL)	AMOUNTS ON-COL (ng/mL)	TARGET RANGE	RATIO
29 PCB-1016					CAS #: 12674-11-2		
7.506	7.502	(0.004)	1715789	1000.00	998.0	80.00- 120.00	100.00
6.939	6.935	(0.004)	763493	1000.00	907.8	35.60- 53.40	44.50
7.163	7.159	(0.004)	750849	1000.00	923.3	35.01- 52.51	43.76
7.479	7.477	(0.002)	1124054	1000.00	911.9	52.41- 78.61	65.51
7.578	7.575	(0.003)	942417			43.94- 65.91	54.93
7.696	7.694	(0.002)	748068	1000.00	905.3	34.88- 52.32	43.60
		Average of Peak Amounts =			929.3		
35 PCB-1260					CAS #: 11096-82-5		
10.951	10.949	(0.002)	4106114	1000.00	999.9	80.00- 120.00	100.00
9.466	9.464	(0.002)	1705029			33.22- 49.83	41.52
9.799	9.797	(0.002)	2135528	1000.00	962.2	41.61- 62.41	52.01
10.158	10.156	(0.002)	2406599	1000.00	985.7	46.89- 70.33	58.61
10.261	10.259	(0.002)	1846383	1000.00	1052	35.97- 53.96	44.97
10.549	10.546	(0.003)	1816800			35.40- 53.10	44.25
11.321	11.317	(0.004)	2461452			47.96- 71.94	59.95
12.071	12.069	(0.002)	1131792	1000.00	1048	22.05- 33.08	27.56
		Average of Peak Amounts =			1009		
$ 38 TCMX					CAS #: 877-09-8		
6.131	6.129	(0.002)	* 3152939	100.000	83.69		
$ 39 DCB					CAS #: 2051-24-3		
12.708	12.707	(0.001)	3331254	100.000	89.02		

10/16/11

Data File: \\BC\TARGET\chem\ecd3.i\101211.b\025F2501.D
Date : 12-OCT-2011 20:46
Client ID:
Sample Info: SEQ-CCV3
Column phase: ZB HR-1

Instrument: ecd3.i
Operator: EM
Column diameter: 0.32



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J.H. 10.14.11

Empirical Laboratories, LLC

SW-846 METHODS 8081A/8082

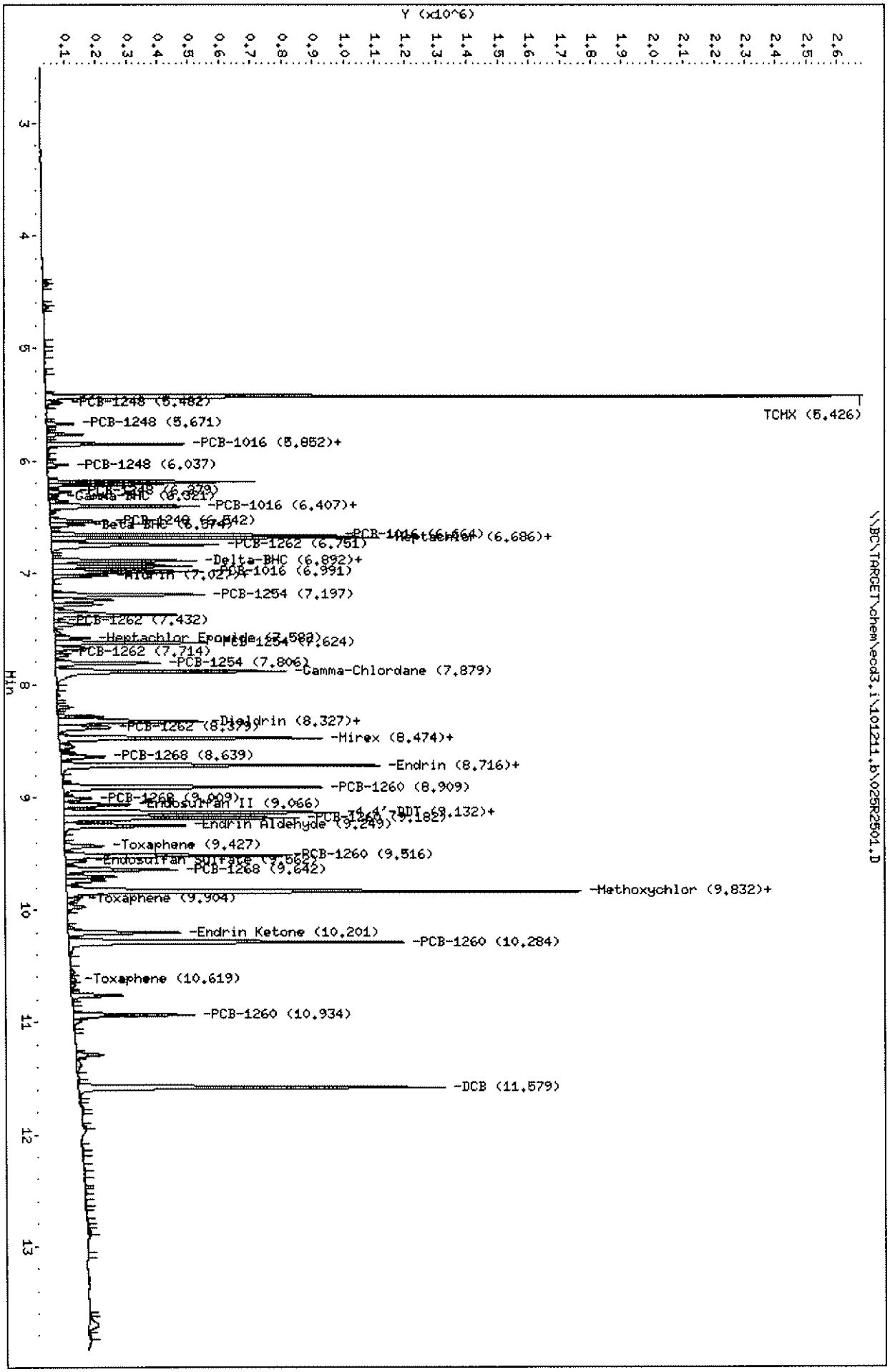
Data file : \\BC\TARGET\chem\ecd3.i\101211.b\025R2501.D
Lab Smp Id: SEQ-CCV3
Inj Date : 12-OCT-2011 20:46
Operator : EM
Inst ID: ecd3.i
Smp Info : SEQ-CCV3
Misc Info : ;;;;;;1660D.sub
Comment :
Method : \\BC\TARGET\chem\ecd3.i\101211.b\8081_82R.m
Meth Date : 13-Oct-2011 22:59 jeh
Quant Type: ESTD
Cal Date : 10-AUG-2011 19:35
Cal File: 002R0101.D
Als bottle: 25
Continuing Calibration Sample
Dil Factor: 1.00000
Integrator: Falcon
Compound Sublist: 1660d.sub
Target Version: 4.04
Sample Matrix: None
Processing Host: NSH-LAPTOP1

RT	EXP RT	DLT RT	RESPONSE	AMOUNTS CAL-AMT (ng/mL)	AMOUNTS ON-COL (ng/mL)	TARGET RANGE	RATIO
29 PCB-1016 [2C]					CAS #: 12674-11-2		
6.685	6.681	(0.004)	1405197	1000.00	1153	80.00- 120.00	100.00
5.852	5.848	(0.004)	528844			30.11- 45.16	37.63
6.407	6.403	(0.004)	745313	1000.00	1086	42.43- 63.65	53.04
6.664	6.660	(0.004)	1026664	1000.00	1079	58.45- 87.67	73.06
6.892	6.888	(0.004)	627209	1000.00	969.9	35.71- 53.56	44.63
6.990	6.986	(0.004)	729736	1000.00	1093	41.54- 62.32	51.93
		Average of Peak Amounts =			1076		
35 PCB-1260 [2C]					CAS #: 11096-82-5		
9.832	9.826	(0.006)	2789553	1000.00 ✗	1118	80.00- 120.00	100.00
8.715	8.710	(0.005)	1619527	1000.00	1054	46.45- 69.67	58.06
8.909	8.903	(0.006)	1370748	1000.00	960.1	39.31- 58.97	49.14
9.132	9.126	(0.006)	1527378	1000.00	1007	43.80- 65.70	54.75
9.182	9.176	(0.006)	1298813			37.25- 55.87	46.56
9.515	9.510	(0.005)	1126917	1000.00	1017	32.32- 48.48	40.40
10.284	10.278	(0.006)	1910750			54.80- 82.20	68.50
10.934	10.930	(0.004)	636229			18.25- 27.37	22.81
		Average of Peak Amounts =			1031		
$ 38 TCMX [2C]					CAS #: 877-09-8		
5.425	5.421	(0.004)	*3065936	100.000	83.16		
$ 39 DCB [2C]					CAS #: 2051-24-3		
11.579	11.573	(0.006)	2032869	100.000	76.84		

10/16/11

Data File: \\BC\TARGET\chem\ecd3.i\101211.b\025R2501.D
Date : 12-OCT-2011 20:46
Client ID:
Sample Info: SEQ-CCV3
Column phase: ZB HR-2

Instrument: ecd3.i
Operator: EM
Column diameter: 0.32



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Empirical Laboratories, LLC

SW-846 METHODS 8081A/8082

Data file : \\BC\TARGET\chem\ecd3.i\101211.b\026F2601.D
Lab Smp Id: SEQ-CCV4
Inj Date : 12-OCT-2011 21:05
Operator : EM Inst ID: ecd3.i
Smp Info : SEQ-CCV4
Misc Info : ;;;;;;AR1254.sub
Comment :
Method : \\BC\TARGET\chem\ecd3.i\101211.b\8081_82F.m
Meth Date : 13-Oct-2011 22:59 jeh Quant Type: ESTD
Cal Date : 10-AUG-2011 19:35 Cal File: 002F0101.D
Als bottle: 26 Continuing Calibration Sample
Dil Factor: 1.00000
Integrator: Falcon Compound Sublist: AR1254.sub
Target Version: 4.04 Sample Matrix: None
Processing Host: NSH-LAPTOP1

RT	EXP RT	DLT RT	RESPONSE	AMOUNTS CAL-AMT (ng/mL)	AMOUNTS ON-COL (ng/mL)	TARGET RANGE	RATIO
34 PCB-1254					CAS #: 11097-69-1		
9.254	9.251	(0.003)	1991285	1000.00	910.4	80.00- 120.00	100.00
7.810	7.808	(0.002)	641300	1000.00	877.0	25.76- 38.65	32.21
8.519	8.516	(0.003)	1194218			47.98- 71.97	59.97
8.794	8.793	(0.001)	1822335	1000.00	868.2	73.21- 109.82	91.52
9.620	9.618	(0.002)	1552079	1000.00	910.6	62.35- 93.53	77.94
10.159	10.155	(0.004)	* 1650674	1000.00	909.5	66.32- 99.47	82.89
		Average of Peak Amounts =			895.1		

10/16/11

Data File: \\BC\TARGET\chem\ecd3.i\101211.b\026F2601.D

Date : 12-OCT-2011 21:05

Client ID:

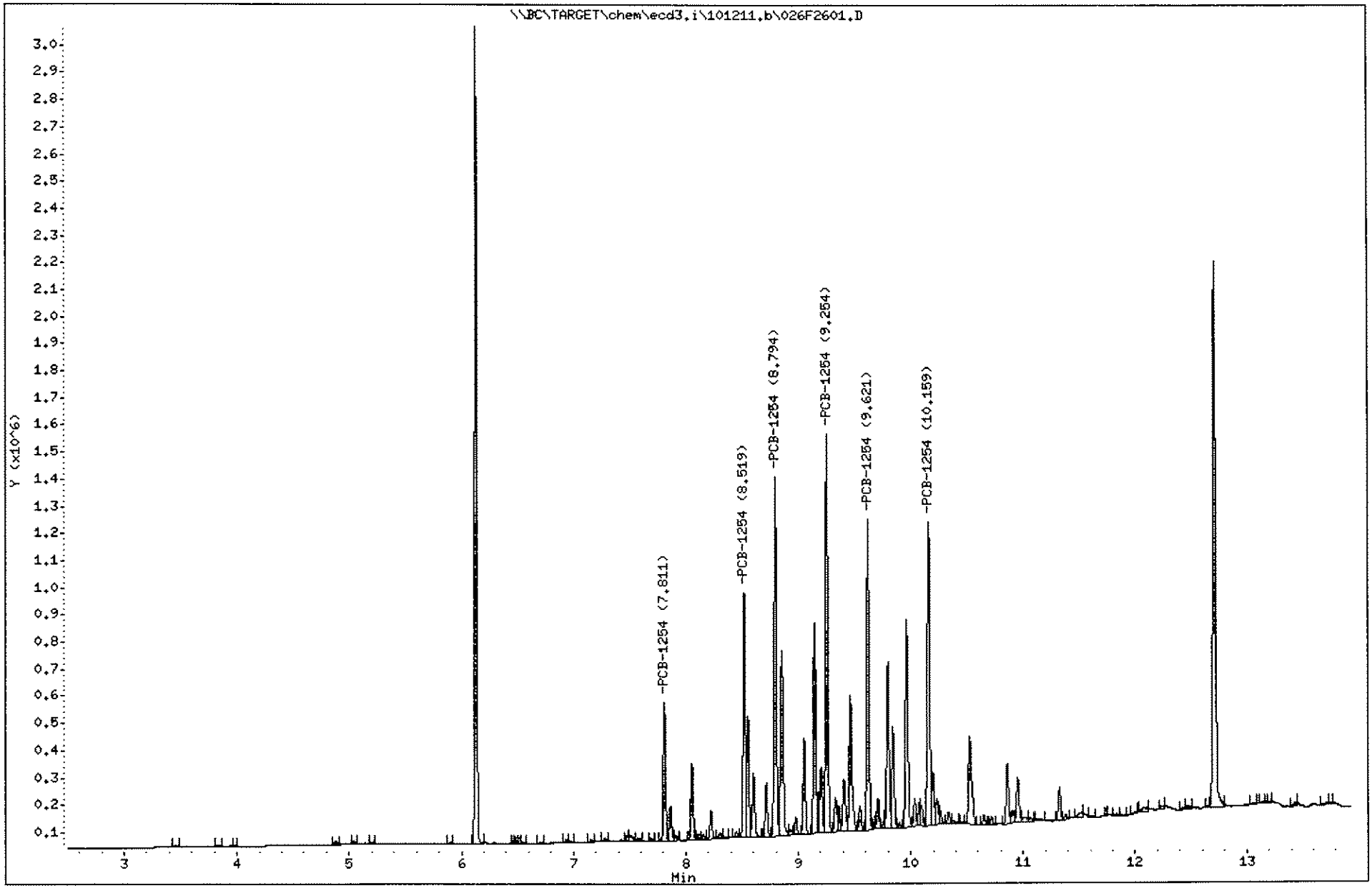
Instrument: ecd3.i

Sample Info: SEQ-CCV4

Operator: EM

Column phase: ZB MR-1

Column diameter: 0.32



J.H. 10.14.11

Empirical Laboratories, LLC

SW-846 METHODS 8081A/8082

Data file : \\BC\TARGET\chem\ecd3.i\101211.b\026R2601.D
Lab Smp Id: SEQ-CCV4
Inj Date : 12-OCT-2011 21:05
Operator : EM Inst ID: ecd3.i
Smp Info : SEQ-CCV4
Misc Info : ;;;;;;AR1254.sub
Comment :
Method : \\BC\TARGET\chem\ecd3.i\101211.b\8081_82R.m
Meth Date : 13-Oct-2011 22:59 jeh Quant Type: ESTD
Cal Date : 10-AUG-2011 19:35 Cal File: 002R0101.D
Als bottle: 26 Continuing Calibration Sample
Dil Factor: 1.00000
Integrator: Falcon Compound Sublist: AR1254.sub
Target Version: 4.04 Sample Matrix: None
Processing Host: NSH-LAPTOP1

RT	EXP RT	DLT RT	RESPONSE	AMOUNTS CAL-AMT (ng/mL)	AMOUNTS ON-COL (ng/mL)	TARGET RANGE	RATIO
**	======	========	========	=======	=======	==========	=====
34 PCB-1254 [2C]					CAS #: 11097-69-1		
8.310	8.306	(0.004)	2057273	1000.00	1162	80.00- 120.00	100.00
7.196	7.192	(0.004)	406603			15.81- 23.72	19.76
7.623	7.621	(0.002)	1650666	1000.00	1166	64.19- 96.28	80.24
7.806	7.802	(0.004)	1428898	1000.00	1176	55.56- 83.35	69.46
8.473	8.471	(0.002)	*1024356	1000.00	1123	39.83- 59.75	49.79
9.133	9.129	(0.004)	1725929	1000.00 X	1146	67.12- 100.67	83.89
		Average of Peak Amounts =			1155		

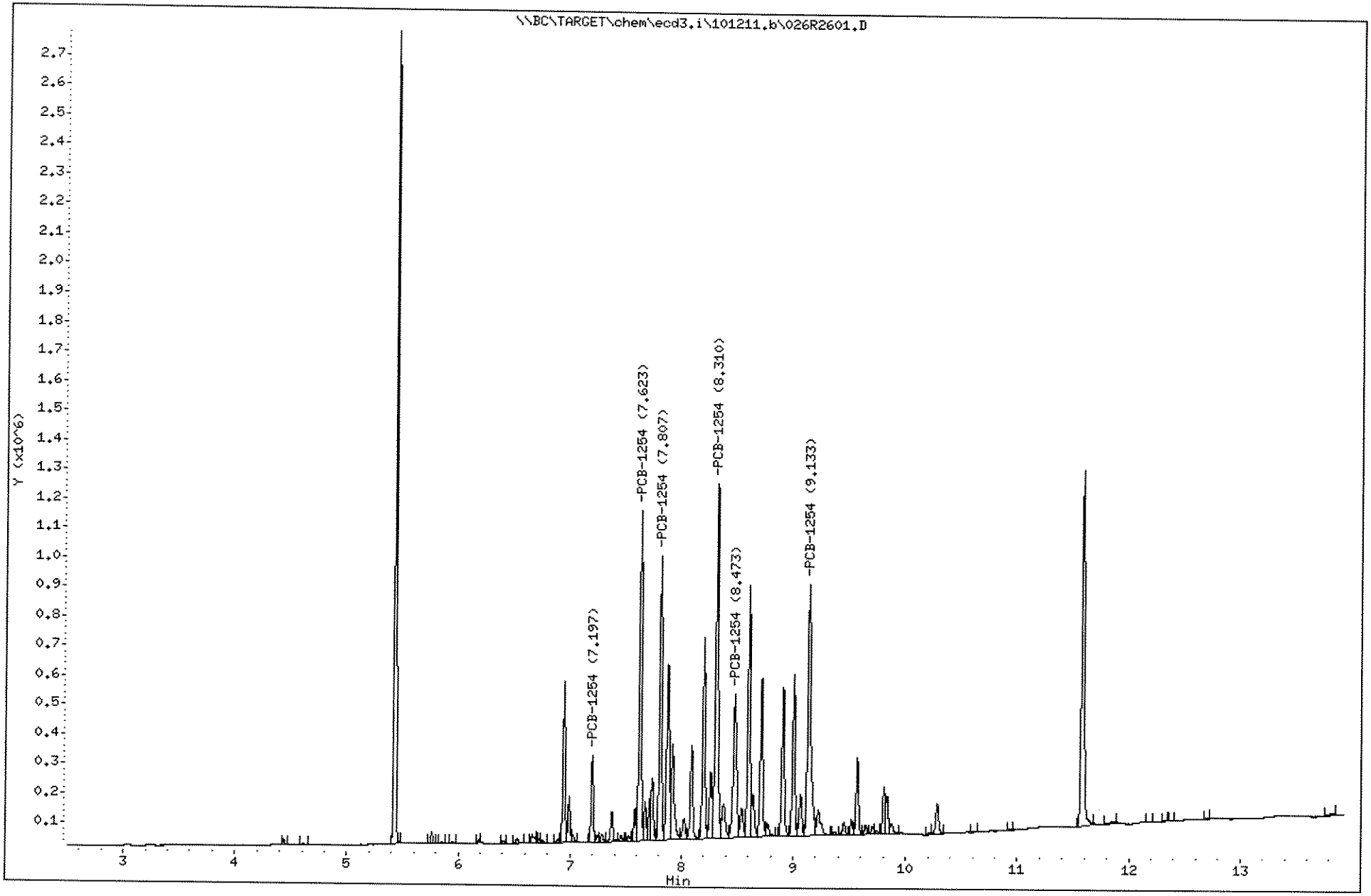
10/16/11

Data File: \\BC\TARGET\chem\ecd3.i\101211.b\026R2601.D
Date : 12-OCT-2011 21:05
Client ID:
Sample Info: SEQ-CCV4

Column phase: ZB MR-2

Instrument: ecd3.i

Operator: EM
Column diameter: 0.32



Sequence: C:\HPCHEM\ECD3\SEQUENCE\101911.S\ECD.3\HP.E/F\8081_82 PG 406 EM210 10.19.11

Sequence Table (Front/BACK Injector):

Quantification Part:

Line	Location	SampleName	SampleAmount	ISTDAmt	Multiplier	Dilution
1	Vial 1	PEST PRIMER				
2	Vial 2	SEQ-CCV1\\I055 (1660)				
3	Vial 3	1J13003BLK1;ACID				
4	Vial 4	1J13003BS2;ACID				
5	Vial 5	1110003-14;ACID RE1 EM210 10.19.11				
6	Vial 6	SEQ-CCV2(1660)				

~~Sequence Table (Back Injector):~~

No ~~entries - empty table!~~

SP

10/24/11

Laboratory Name

J.H. 10.25.11

SW-846 METHODS 8081A/8082

Data file : \\ELABNSH05\TARGET\chem\ecd3.i\101911.b\002F0201.D
Lab Smp Id: SEQ-CCV1
Inj Date : 19-OCT-2011 09:23
Operator : EM Inst ID: ecd3.i
Smp Info : SEQ-CCV1
Misc Info : ;;;;;;1660D.sub
Comment :
Method : \\ELABNSH05\TARGET\chem\ecd3.i\101911.b\8081_82F.m
Meth Date : 23-Oct-2011 21:39 spatrona Quant Type: ESTD
Cal Date : 10-AUG-2011 19:35 Cal File: 002F0101.D
Als bottle: 2 Continuing Calibration Sample
Dil Factor: 1.00000
Integrator: Falcon Compound Sublist: 1660D.sub
Target Version: 4.04 Sample Matrix: None
Processing Host: TARGET14_VM

RT	EXP RT	DLT RT	RESPONSE	AMOUNTS CAL-AMT (ng/mL)	AMOUNTS ON-COL (ng/mL)	TARGET RANGE	RATIO
29 PCB-1016					CAS #: 12674-11-2		
7.430	7.430	(0.000)	1751888	1000.00	1019	80.00- 120.00	100.00
6.867	6.867	(0.000)	810238	1000.00	963.3	37.00- 55.50	46.25
7.087	7.087	(0.000)	791930	1000.00	973.8	36.16- 54.25	45.20
7.403	7.403	(0.000)	1158139	1000.00	939.6	52.89- 79.33	66.11
7.502	7.502	(0.000)	960736			43.87- 65.81	54.84
7.618	7.618	(0.000)	772934	1000.00	935.4	35.30- 52.94	44.12
Average of Peak Amounts =					966.2		
35 PCB-1260					CAS #: 11096-82-5		
10.865	10.865	(0.000)	3904488	1000.00	950.8	80.00- 120.00	100.00
9.382	9.382	(0.000)	1684920			34.52- 51.78	43.15
9.715	9.715	(0.000)	2181374	1000.00	982.8	44.69- 67.04	55.87
10.072	10.072	(0.000)	2342555	1000.00	959.4	48.00- 72.00	60.00
10.177	10.177	(0.000)	1695584	1000.00	965.7	34.74- 52.11	43.43
10.462	10.462	(0.000)	1720289			35.25- 52.87	44.06
11.232	11.232	(0.000)	2371394			48.59- 72.88	60.74
11.983	11.983	(0.000)	1001472	1000.00	926.9	20.52- 30.78	25.65
Average of Peak Amounts =					957.1		
$ 38 TCMX					CAS #: 877-09-8		
6.063	6.063	(0.000)	3568146	100.000	94.71		
$ 39 DCB					CAS #: 2051-24-3		
12.613	12.613	(0.000)	3125571	100.000	83.52		

Data File: \\ELABNSH05\TARGET\chem\ecd3.i\101911.b\002F0201.D

Date : 19-OCT-2011 09:23

Client ID:

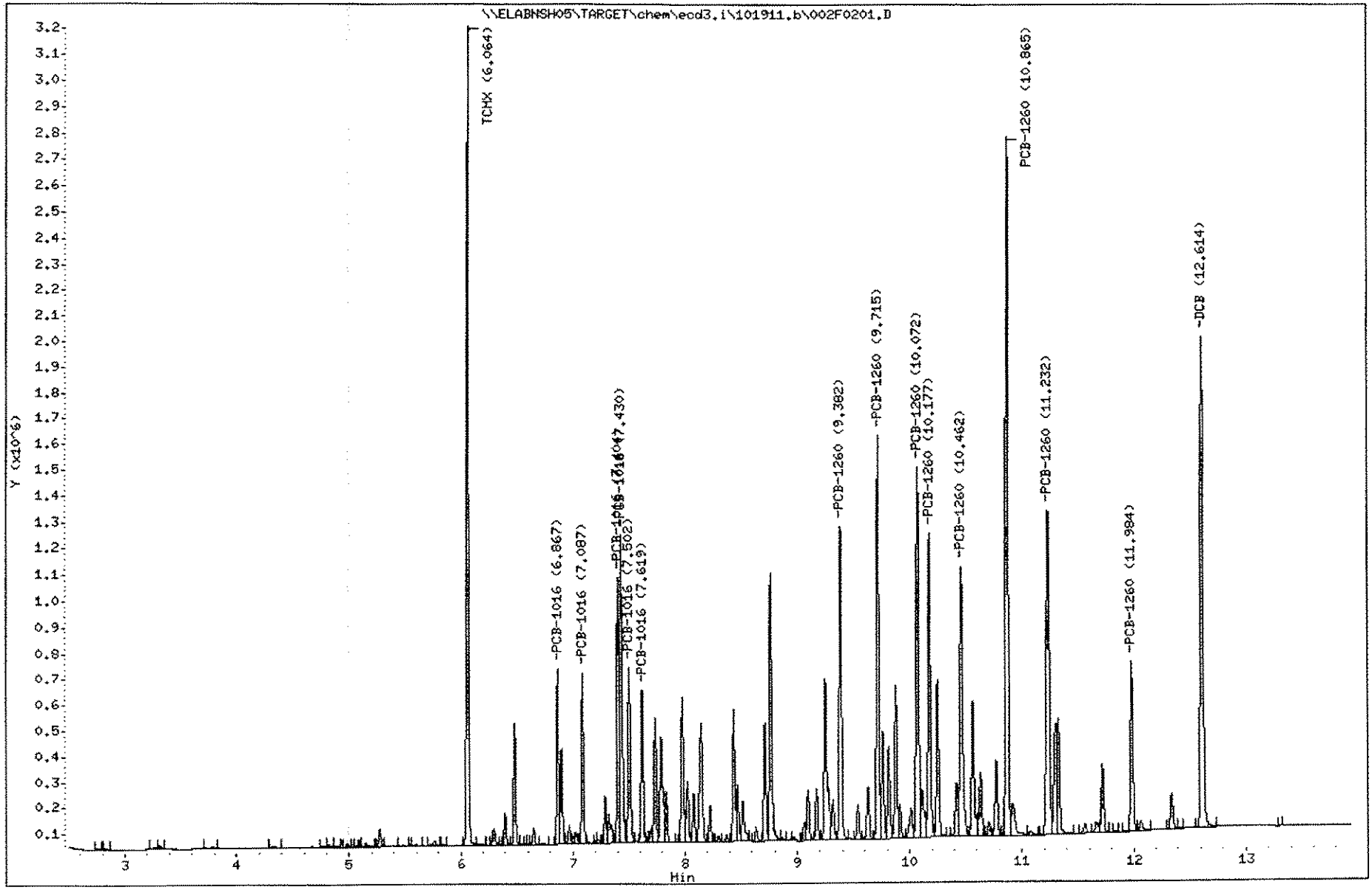
Sample Info: SEQ-CCV1

Column phase: ZB MR-1

Instrument: ecd3.i

Operator: EM

Column diameter: 0.32



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1110003

SP

10/24/11

Laboratory Name

SW-846 METHODS 8081A/8082

JH. 10-25.11

Data file : \\ELABNSH05\TARGET\chem\ecd3.i\101911.b\002R0201.D
Lab Smp Id: SEQ-CCV1
Inj Date : 19-OCT-2011 09:23
Operator : EM Inst ID: ecd3.i
Smp Info : SEQ-CCV1
Misc Info : ;;;;;;1660D.sub
Comment :
Method : \\ELABNSH05\TARGET\chem\ecd3.i\101911.b\8081_82R.m
Meth Date : 23-Oct-2011 21:39 spatrona Quant Type: ESTD
Cal Date : 10-AUG-2011 19:35 Cal File: 002R0101.D
Als bottle: 2 Continuing Calibration Sample
Dil Factor: 1.00000
Integrator: Falcon Compound Sublist: 1660D.sub
Target Version: 4.04 Sample Matrix: None
Processing Host: TARGET14_VM

RT	EXP RT	DLT RT	RESPONSE	AMOUNTS CAL-AMT (ng/mL)	AMOUNTS ON-COL (ng/mL)	TARGET RANGE	RATIO
29 PCB-1016 [2C]					CAS #: 12674-11-2		
6.619	6.619	(0.000)	2761432	1000.00	2267	80.00- 120.00	100.00
5.792	5.792	(0.000)	970794			28.12- 42.19	35.16
6.342	6.342	(0.000)	1410033	1000.00	2054	40.85- 61.27	51.06
6.599	6.599	(0.000)	1908522	1000.00	2006	55.29- 82.94	69.11
6.826	6.826	(0.000)	1085246	1000.00	1678	31.44- 47.16	39.30
6.924	6.924	(0.000)	1378769	1000.00	2065	39.94- 59.92	49.93
Average of Peak Amounts =					2014		
35 PCB-1260 [2C]					CAS #: 11096-82-5		
9.756	9.756	(0.000)	5528948	1000.00 X	2215	80.00- 120.00	100.00
8.641	8.641	(0.000)	3124577	1000.00	2033	45.21- 67.82	56.51
8.832	8.832	(0.000)	2631771	1000.00	1843	38.08- 57.12	47.60
9.057	9.057	(0.000)	3182076	1000.00	2098	46.04- 69.06	57.55
9.106	9.106	(0.000)	2708348			39.19- 58.78	48.98
9.439	9.439	(0.000)	2354328	1000.00	2125	34.07- 51.10	42.58
10.206	10.206	(0.000)	3795944			54.92- 82.39	68.66
10.857	10.857	(0.000)	1164287			16.85- 25.27	21.06
Average of Peak Amounts =					2063		
$ 38 TCMX [2C]					CAS #: 877-09-8		
5.369	5.369	(0.000)	5637292	100.000	152.9		(A)
$ 39 DCB [2C]					CAS #: 2051-24-3		
11.499	11.499	(0.000)	4049856	100.000	154.4		(A)

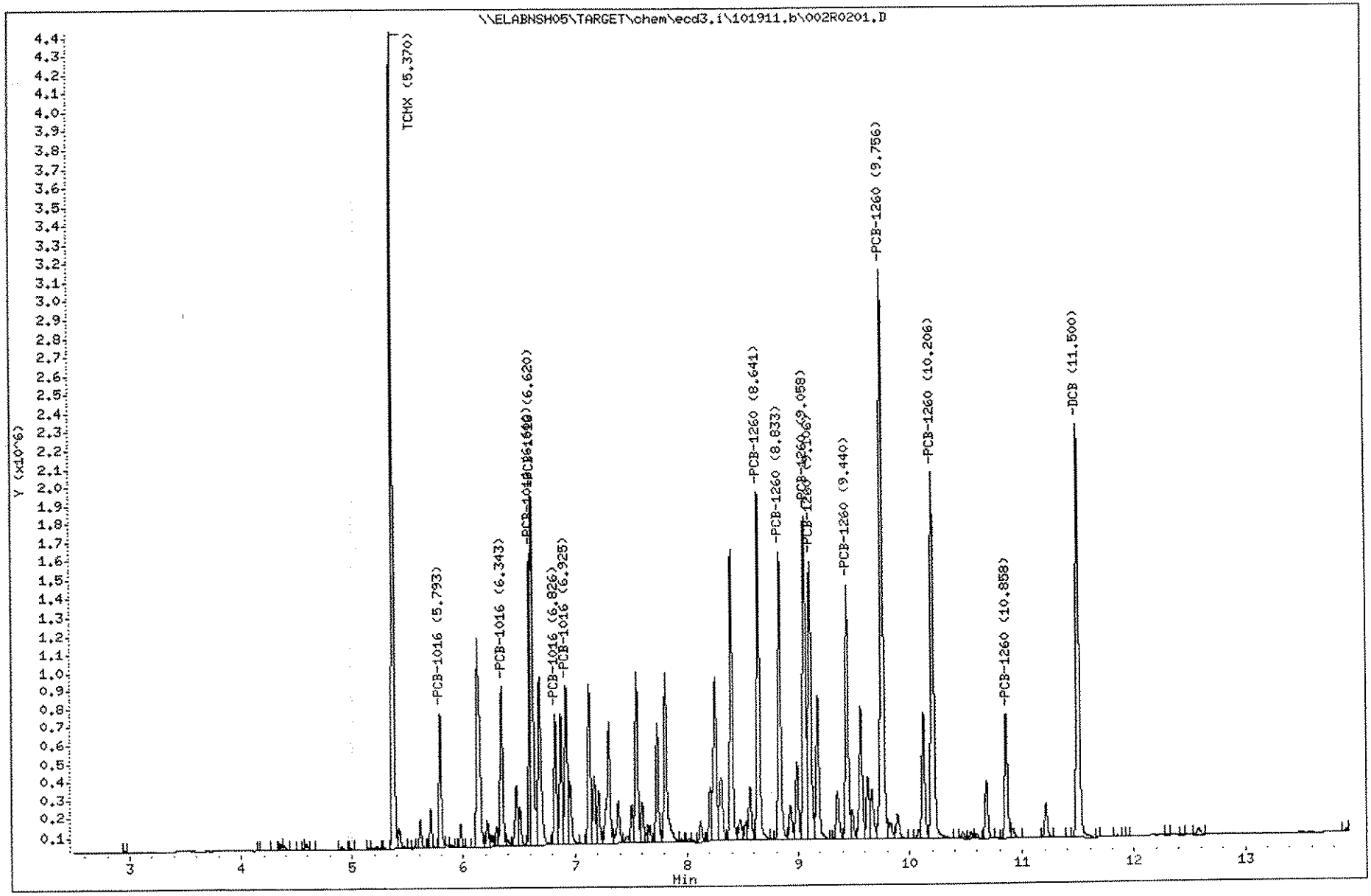
QC Flag Legend

A - Target compound detected but, quantitated amount exceeded maximum amount.

Data File: \\ELABNSH05\TARGET\chem\ecd3.i\101911.b\002R0201.D
Date : 19-OCT-2011 09:23
Client ID:
Sample Info: SEQ-CCV1

Instrument: ecd3.i
Operator: EM
Column diameter: 0.32

Column phase: ZB MR-2



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1110003

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J.H. 10.25.11

Laboratory Name

SW-846 METHODS 8081A/8082

Data file : \\ELABNSH05\TARGET\chem\ecd3.i\101911.b\003F0301.D
Lab Smp Id: 1J13003-BLK2
Inj Date : 19-OCT-2011 09:42
Operator : EM Inst ID: ecd3.i
Smp Info : 1J13003-BLK2;ACID
Misc Info : ;;;;;;PCB.sub
Comment :
Method : \\ELABNSH05\TARGET\chem\ecd3.i\101911.b\8081_82F.m
Meth Date : 23-Oct-2011 21:40 spatrona Quant Type: ESTD
Cal Date : 10-AUG-2011 19:35 Cal File: 002F0101.D
Als bottle: 3
Dil Factor: 1.00000
Integrator: Falcon Compound Sublist: PCB.sub
Target Version: 4.04 Sample Matrix: None
Processing Host: TARGET14_VM

RT	EXP RT	DLT RT	RESPONSE	CONCENTRATIONS ON-COL (ng/mL)	FINAL (ng/mL)	TARGET RANGE	RATIO	
$ 38 TCMX					CAS #: 877-09-8			
6.063	6.063	(0.000)	1408474	37.3856	37.38			(R)
$ 39 DCB					CAS #: 2051-24-3			
12.613	12.613	(0.000)	877853	23.4591	23.46			(R)

QC Flag Legend

R - Spike/Surrogate failed recovery limits.

@The sample name was changed from 1J13003-BLK1 to 1J13003-BLK2 for reporting reasons follow acid cleanup.

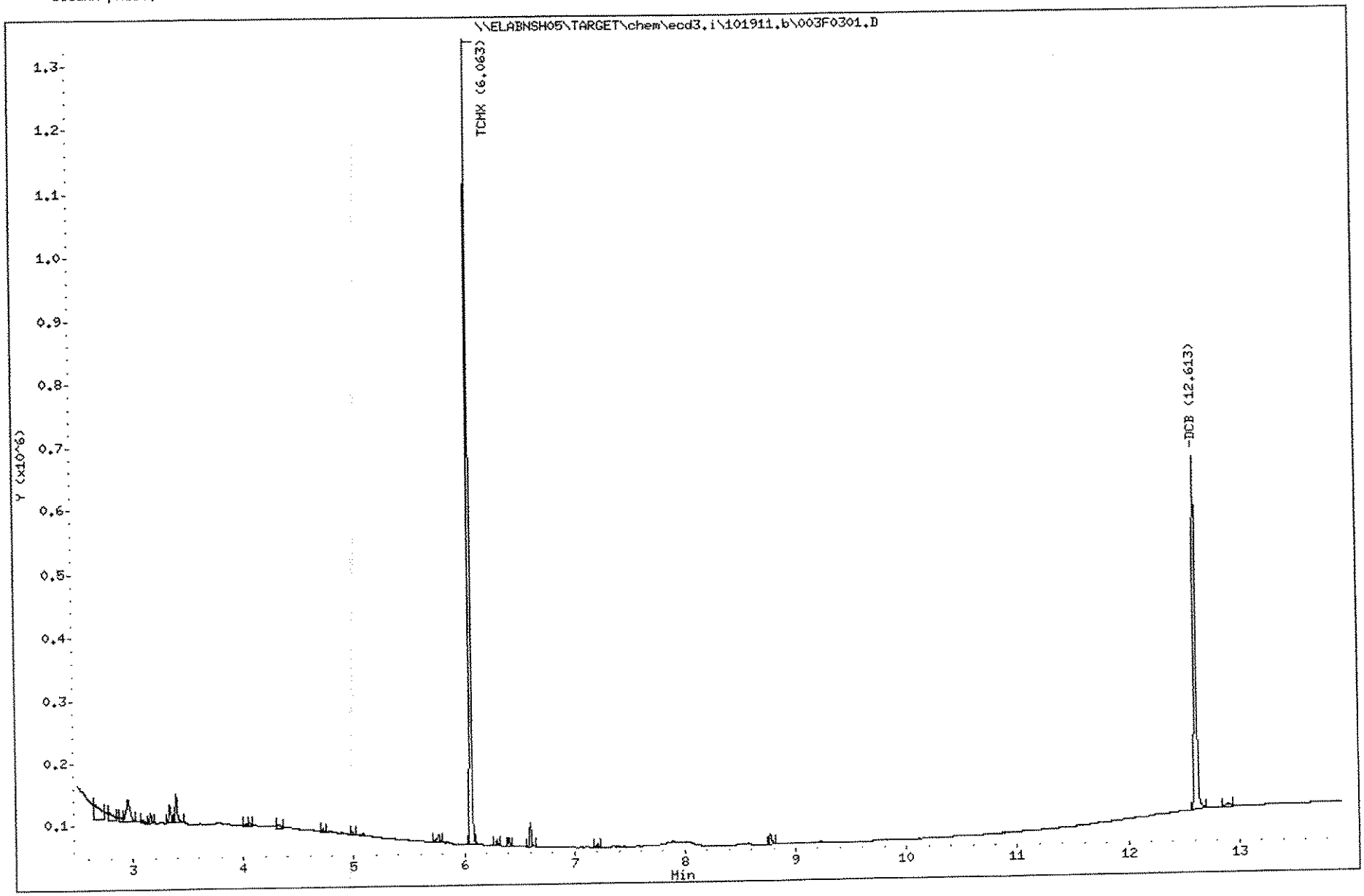
TCMX front:
1408474/37674.2771=37.38556*10mL/1000mL=0.3738556

Data File: \\ELABNSH05\TARGET\chem\ecd3.i\101911.b\003F0301.D
Date : 19-OCT-2011 09:42
Client ID:
Sample Info: 1J13003-BLK2;ACID

Column phase: ZB MR-1

Instrument: ecd3.i

Operator: EM
Column diameter: 0.32



SP
10/24/11
JH. 10.25.11

Laboratory Name

SW-846 METHODS 8081A/8082

Data file : \\ELABNSH05\TARGET\chem\ecd3.i\101911.b\003R0301.D
Lab Smp Id: 1J13003-BLK2
Inj Date : 19-OCT-2011 09:42
Operator : EM
Inst ID: ecd3.i
Smp Info : 1J13003-BLK2;ACID
Misc Info : ;;;;;;PCB.sub
Comment :
Method : \\ELABNSH05\TARGET\chem\ecd3.i\101911.b\8081_82R.m
Meth Date : 23-Oct-2011 21:40 spatrona
Quant Type: ESTD
Cal Date : 10-AUG-2011 19:35
Cal File: 002R0101.D
Als bottle: 3
Dil Factor: 1.00000
Integrator: Falcon
Compound Sublist: PCB.sub
Target Version: 4.04
Sample Matrix: None
Processing Host: TARGET14_VM

RT	EXP RT	DLT RT	RESPONSE	CONCENTRATIONS ON-COL (ng/mL)	FINAL (ng/mL)	TARGET RANGE	RATIO	
$ 38 TCMX [2C]					CAS #: 877-09-8			
5.369	5.369	(0.000)	2407986	65.3119	65.31			(R)
$ 39 DCB [2C]					CAS #: 2051-24-3			
11.499	11.499	(0.000)	1191665	44.5088	44.51			(R)

QC Flag Legend

R - Spike/Surrogate failed recovery limits.

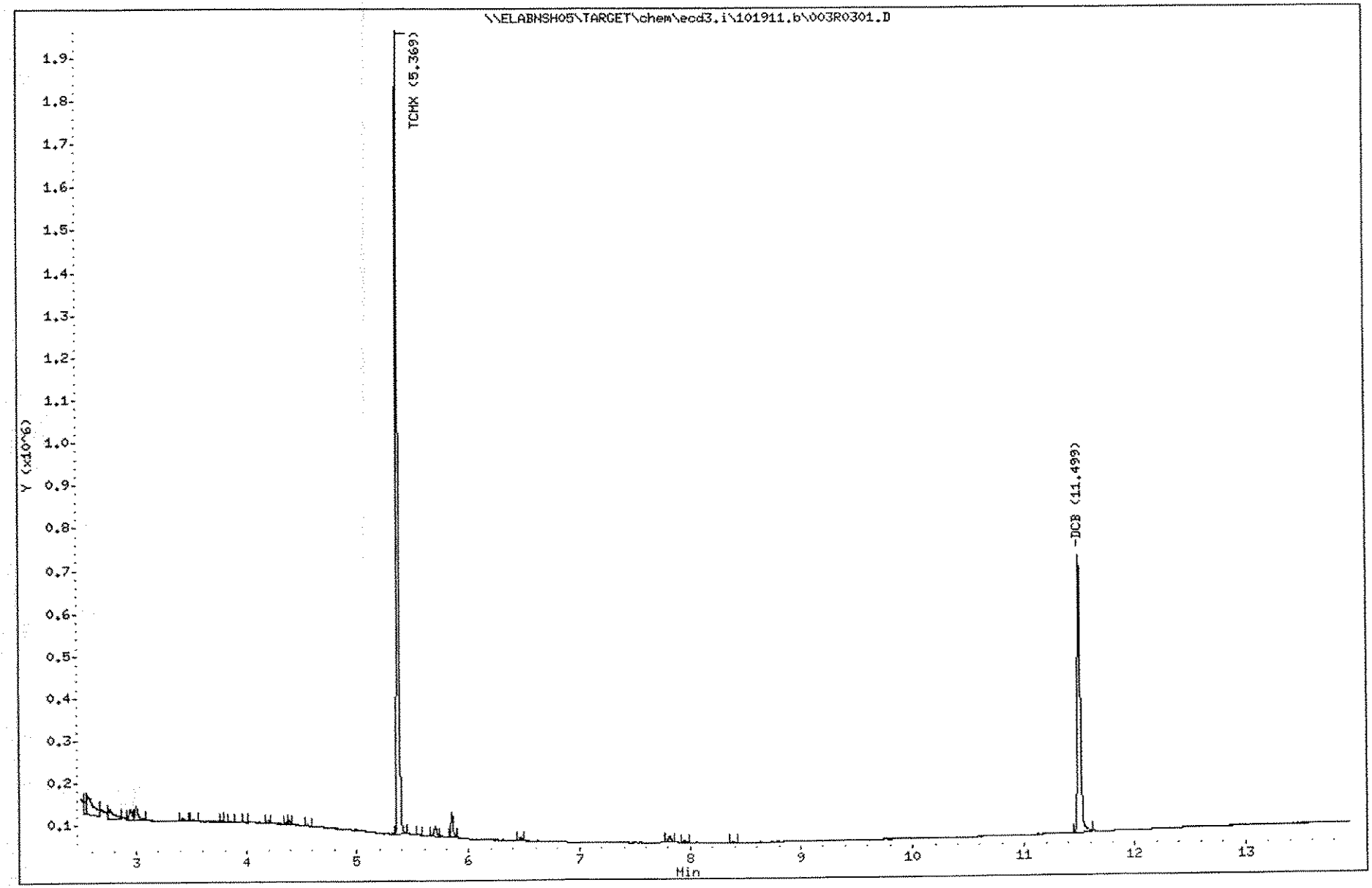
@The sample name was changed from 1J13003-BLK1 to 1J13003-BLK2 for reporting reasons follow acid cleanup.

Data File: \\ELABNSH05\TARGET\chem\ecd3.i\101911.b\003R0301.D
Date : 19-OCT-2011 09:42
Client ID:
Sample Info: 1J13003-BLK2;ACID

Column phase: ZB MR-2

Instrument: ecd3.i

Operator: EH
Column diameter: 0.32



SP

10/24/11

JH. 10.25.11

Laboratory Name

SW-846 METHODS 8081A/8082

Data file : \\ELABNSH05\TARGET\chem\ecd3.i\101911.b\004F0401.D
Lab Smp Id: 1J13003-BS3
Inj Date : 19-OCT-2011 10:01
Operator : EM Inst ID: ecd3.i
Smp Info : 1J13003-BS3;ACID
Misc Info : ;;;;;;PCB.sub
Comment :
Method : \\ELABNSH05\TARGET\chem\ecd3.i\101911.b\8081_82F.m
Meth Date : 23-Oct-2011 21:40 spatrona Quant Type: ESTD
Cal Date : 10-AUG-2011 19:35 Cal File: 002F0101.D
Als bottle: 4
Dil Factor: 1.00000
Integrator: Falcon Compound Sublist: PCB.sub
Target Version: 4.04 Sample Matrix: None
Processing Host: TARGET14_VM

RT	EXP RT	DLT RT	RESPONSE	CONCENTRATIONS ON-COL (ng/mL)	FINAL (ng/mL)	TARGET RANGE	RATIO
29 PCB-1016					CAS #: 12674-11-2		
7.431	7.430	(0.001)	180476	104.979	105.0	80.00- 120.00	100.00
6.867	6.867	(0.000)	92473	109.946	109.9	36.84- 55.26	51.24
7.089	7.087	(0.002)	92022	113.159	113.2	36.28- 54.42	50.99
7.404	7.403	(0.001)	138921	112.703	112.7	54.13- 81.19	76.97
7.504	7.502	(0.002)	107853			45.05- 67.57	59.76
7.619	7.618	(0.001)	89010	107.716	107.7	36.02- 54.03	49.32
		Average of Peak Concentrations =			109.7		
35 PCB-1260					CAS #: 11096-82-5		
10.866	10.865	(0.001)	1556751	379.091	379.1	80.00- 120.00	100.00
9.382	9.382	(0.000)	785867			35.22- 52.83	50.48
9.716	9.715	(0.001)	1009210	454.700	454.7	44.99- 67.48	64.83
10.072	10.072	(0.000)	1142317	467.865	467.9	48.12- 72.18	73.38
10.176	10.177	(-0.001)	666464	379.575	379.6	34.97- 52.45	42.81
10.462	10.462	(0.000)	733863			35.73- 53.60	47.14
11.234	11.232	(0.002)	941531			48.60- 72.91	60.48
11.984	11.983	(0.001)	353633	327.312	327.3	20.37- 30.55	22.72
		Average of Peak Concentrations =			401.7		
$ 38 TCMX					CAS #: 877-09-8		
6.064	6.063	(0.001)	1366285	36.2657	36.26		(R)
$ 39 DCB					CAS #: 2051-24-3		
12.614	12.613	(0.001)	1000084	26.7255	26.72		(R)

@The sample name was changed from 1J13003-BS1 to 1J13003-BS3 for reporting reasons follow acid cleanup.

QC Flag Legend

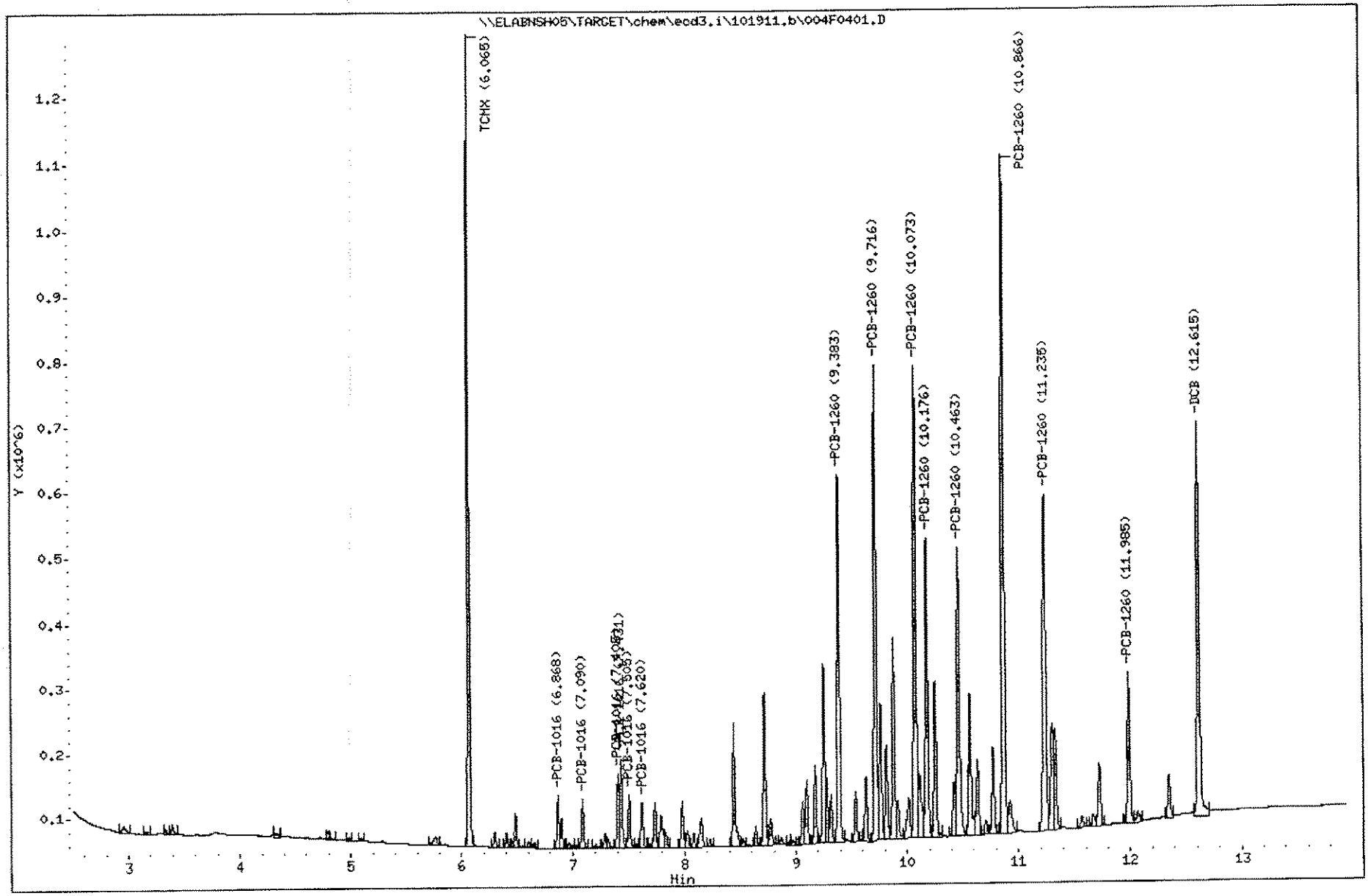
R - Spike/Surrogate failed recovery limits.

Data File: \\ELABNSH05\TARGET\chem\ecd3.i\101911.b\004F0401.D
Date : 19-OCT-2011 10:01
Client ID:
Sample Info: 1J13003-BS3;ACID

Instrument: ecd3.i

Operator: EM
Column diameter: 0.32

Column phase: ZB HR-1



SP

Laboratory Name

10/24/11

SW-846 METHODS 8081A/8082

10.25.11

Data file : \\ELABNSH05\TARGET\chem\ecd3.i\101911.b\004R0401.D
Lab Smp Id: 1J13003-BS3
Inj Date : 19-OCT-2011 10:01
Operator : EM Inst ID: ecd3.i
Smp Info : 1J13003-BS3;ACID
Misc Info : ;;;;;;PCB.sub
Comment :
Method : \\ELABNSH05\TARGET\chem\ecd3.i\101911.b\8081_82R.m
Meth Date : 23-Oct-2011 21:40 spatrona Quant Type: ESTD
Cal Date : 10-AUG-2011 19:35 Cal File: 002R0101.D
Als bottle: 4
Dil Factor: 1.00000
Integrator: Falcon Compound Sublist: PCB.sub
Target Version: 4.04 Sample Matrix: None
Processing Host: TARGET14_VM

RT	EXP RT	DLT RT	RESPONSE	CONCENTRATIONS ON-COL (ng/mL)	FINAL (ng/mL)	TARGET RANGE	RATIO
29 PCB-1016 [2C]					CAS #: 12674-11-2		
6.620	6.619	(0.001)	376854	309.352	309.4	80.00- 120.00	100.00
5.793	5.792	(0.001)	123960			26.90- 40.34	32.89
6.345	6.342	(0.003)	178593	260.209	260.2	38.67- 58.00	47.39
6.600	6.599	(0.001)	240230	252.495	252.5	48.45- 72.68	63.75
6.827	6.826	(0.001)	177000	273.722	273.7	30.14- 45.21	46.97
6.925	6.924	(0.001)	188028	281.626	281.6	38.68- 58.02	49.89
Average of Peak Concentrations =					275.5		
35 PCB-1260 [2C]					CAS #: 11096-82-5		
9.758	9.756	(0.002)	2518530	1008.94	1009	80.00- 120.00	100.00
8.642	8.641	(0.001)	1705802	1109.75	1110	46.39- 69.58	67.73
8.833	8.832	(0.001)	1553082	1087.79	1088	38.92- 58.38	61.67
9.058	9.057	(0.001)	1807101	1191.36	1191	46.43- 69.64	71.75
9.108	9.106	(0.002)	1259041			39.31- 58.97	49.99
9.440	9.439	(0.001)	1073747	969.024	969.0	34.28- 51.43	42.63
10.205	10.206	(-0.001)	1727287			55.47- 83.20	68.58
10.857	10.857	(0.000)	474635			17.15- 25.72	18.85
Average of Peak Concentrations =					1073		
$ 38 TCMX [2C]					CAS #: 877-09-8		
5.370	5.369	(0.001)	2347297	63.6658	63.66		(R)
$ 39 DCB [2C]					CAS #: 2051-24-3		
11.498	11.499	(-0.001)	1316609	49.3104	49.31		(R)

@The sample name was changed from 1J13003-BS1 to 1J13003-BS3 for reporting reasons follow acid cleanup.

QC Flag Legend

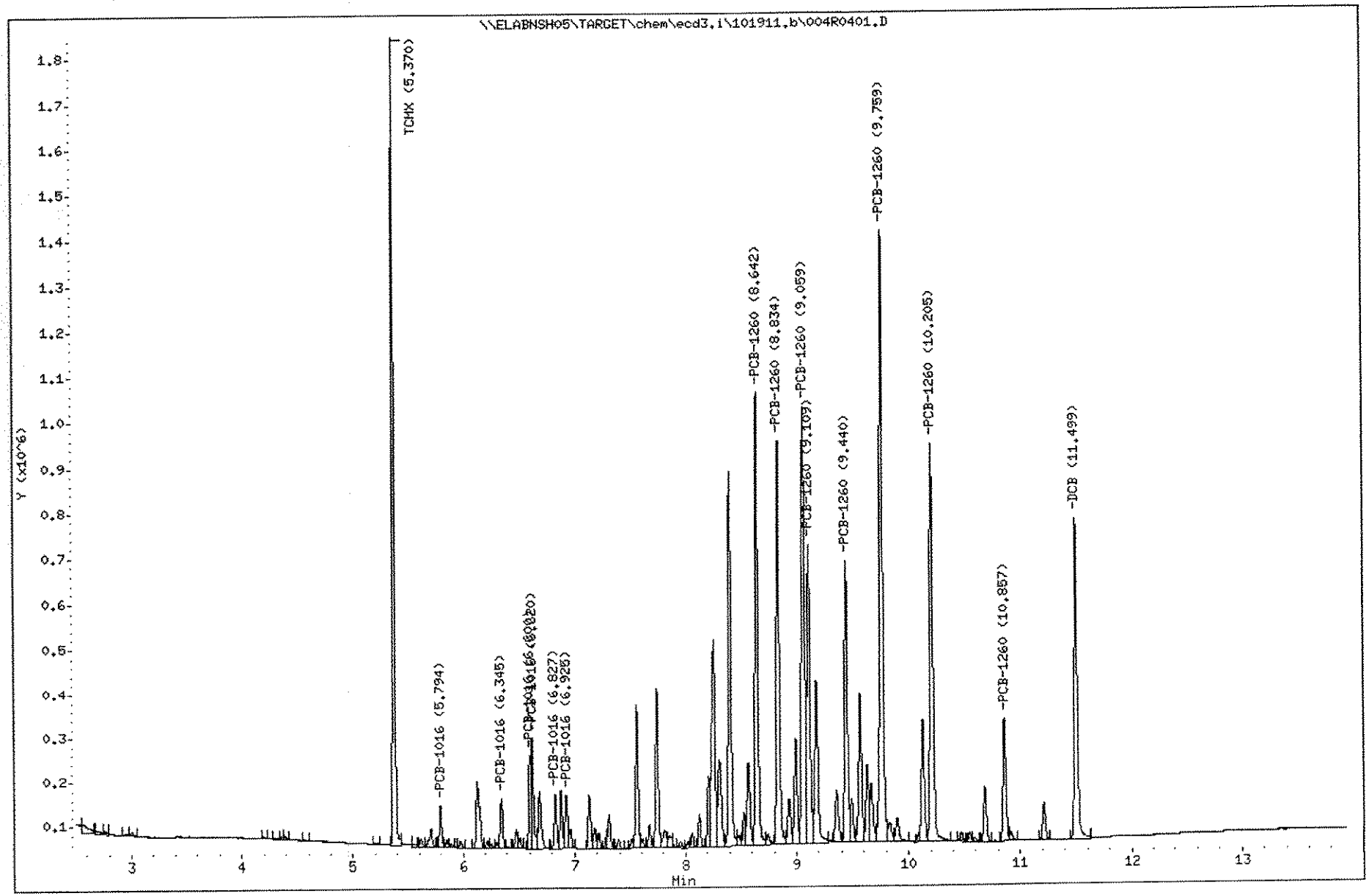
R - Spike/Surrogate failed recovery limits.

Data File: \\ELABNSH05\TARGET\chem\ecd3.i\101911.b\004R0401.D
Date : 19-OCT-2011 10:01
Client ID:
Sample Info: 1J13003-BS3;ACID

Instrument: ecd3.i

Operator: EM
Column diameter: 0.32

Column phase: ZB MR-2



990

1110003

SP 10/24/11 J.H. 10.25.11

Laboratory Name

SW-846 METHODS 8081A/8082

Data file : \\ELABNSH05\TARGET\chem\ecd3.i\101911.b\005F0501.D
Lab Smp Id: 1110003-14 RE1 10/24/11 Client Smp ID: FLC-5-MW02-092911
Inj Date : 19-OCT-2011 10:19 SP
Operator : EM Inst ID: ecd3.i
Smp Info : 1110003-14;ACID
Misc Info : ;;;;;;PCB.sub
Comment :
Method : \\ELABNSH05\TARGET\chem\ecd3.i\101911.b\8081_82F.m
Meth Date : 23-Oct-2011 21:39 spatrona Quant Type: ESTD
Cal Date : 10-AUG-2011 19:35 Cal File: 002F0101.D
Als bottle: 5
Dil Factor: 1.00000
Integrator: Falcon Compound Sublist: PCB.sub
Target Version: 4.04 Sample Matrix: None
Processing Host: TARGET14_VM

RT	EXP RT	DLT RT	RESPONSE	CONCENTRATIONS ON-COL (ng/mL)	FINAL (ng/mL)	TARGET RANGE	RATIO	
$ 38 TCMX					CAS #: 877-09-8			
6.064	6.063	(0.001)	1189100	31.5626	31.56			(R)
$ 39 DCB					CAS #: 2051-24-3			
12.614	12.613	(0.001)	354961	9.48570	9.486			(R)

QC Flag Legend

R - Spike/Surrogate failed recovery limits.

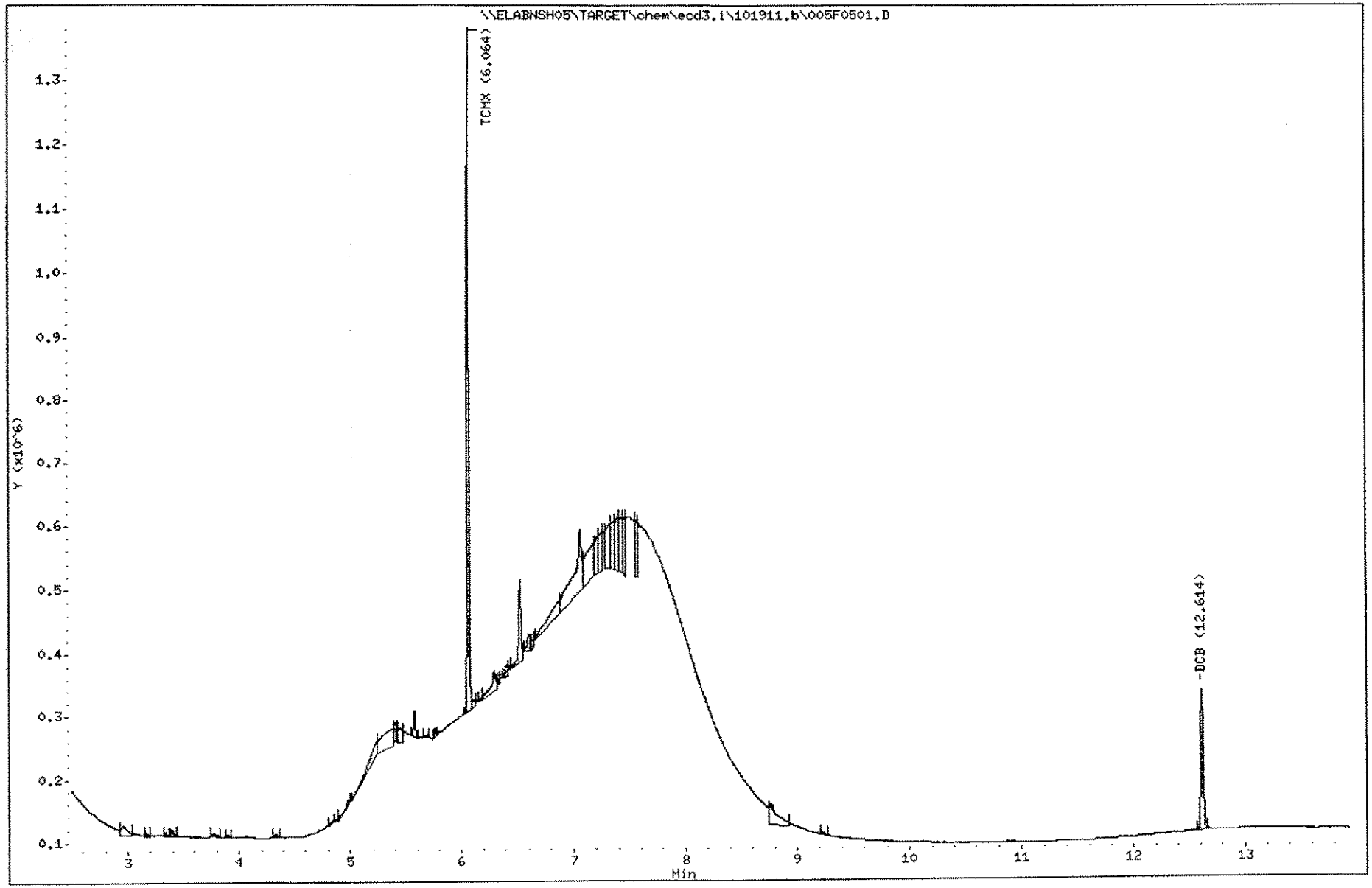
@Although there is significant sulfur interference on the front column, the rear is much more clear. Furthermore, following the acid cleaning, there is no pattern of aroclors throughout the sample. Therefore, the sample will be reported from this run.

Data File: \\ELABNSH05\TARGET\chem\ecd3.i\101911.b\005F0501.D
Date : 19-OCT-2011 10:19
Client ID: FLC-5-MW02-092911
Sample Info: 1110003-14;ACID

Column phase: ZB MR-1

Instrument: ecd3.i

Operator: EM
Column diameter: 0.32



992

1110003

SP

Laboratory Name 10/24/11

D.H. 10.25.11

SW-846 METHODS 8081A/8082

Data file : \\ELABNSH05\TARGET\chem\ecd3.i\101911.b\005R0501.D
Lab Smp Id: 1110003-14 RE1 10/24/11 Client Smp ID: FLC-5-MW02-092911
Inj Date : 19-OCT-2011 10:19
Operator : EM SP Inst ID: ecd3.i
Smp Info : 1110003-14;ACID
Misc Info : ;;;;;;PCB.sub
Comment :
Method : \\ELABNSH05\TARGET\chem\ecd3.i\101911.b\8081_82R.m
Meth Date : 23-Oct-2011 21:39 spatrona Quant Type: ESTD
Cal Date : 10-AUG-2011 19:35 Cal File: 002R0101.D
Als bottle: 5
Dil Factor: 1.00000
Integrator: Falcon Compound Sublist: PCB.sub
Target Version: 4.04 Sample Matrix: None
Processing Host: TARGET14_VM

RT	EXP RT	DLT RT	RESPONSE	CONCENTRATIONS ON-COL (ng/mL)	FINAL (ng/mL)	TARGET RANGE	RATIO	
$ 38 TCMX [2C]					CAS #: 877-09-8			
5.371	5.369	(0.002)	2003400	54.3383	54.34			(R)
$ 39 DCB [2C]					CAS #: 2051-24-3			
11.500	11.499	(0.001)	474716	16.9561	16.96			(R)

QC Flag Legend

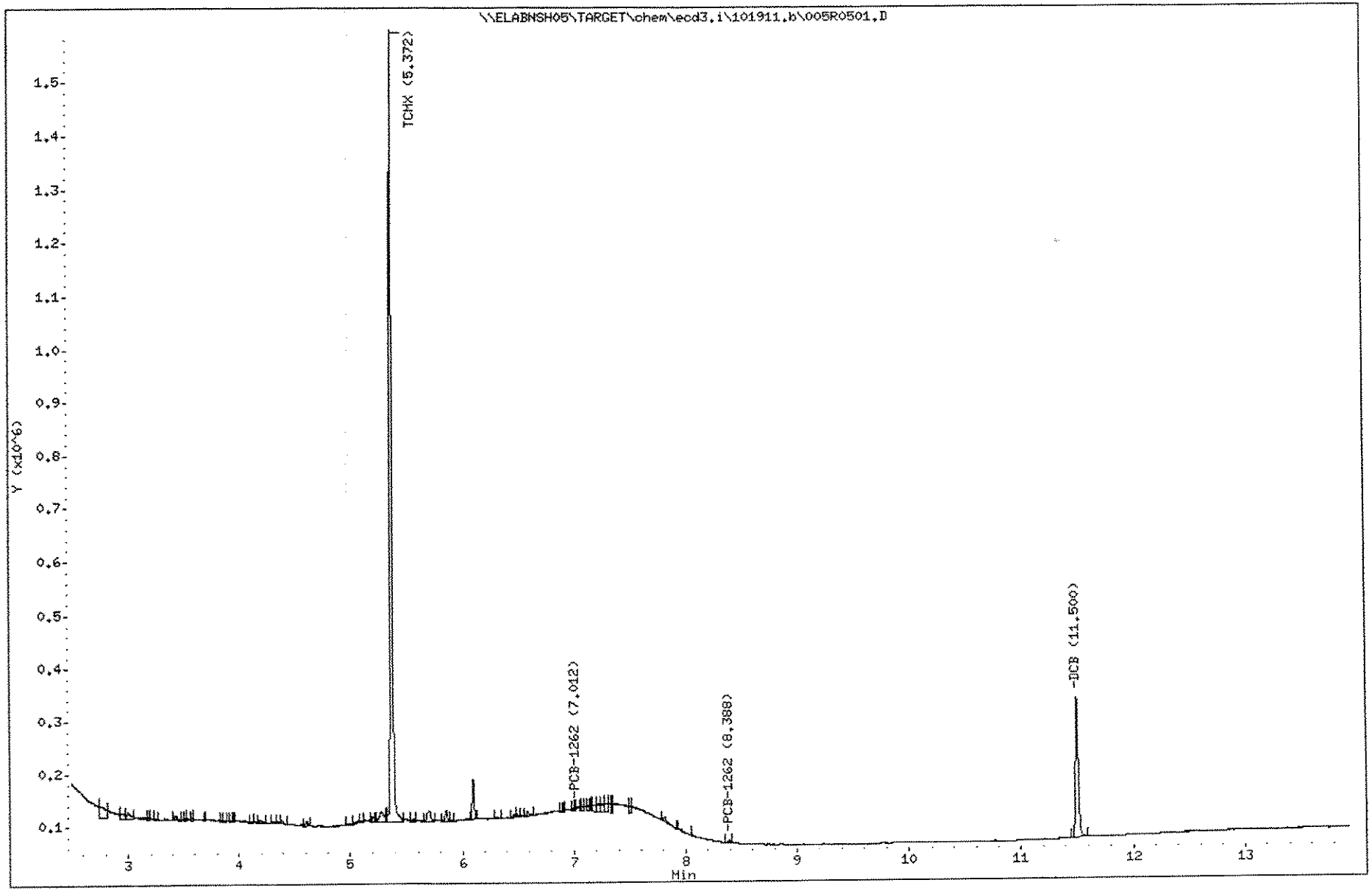
R - Spike/Surrogate failed recovery limits.

Data File: \\ELABNSH05\TARGET\chem\ecd3.i\101911.b\005R0501.D
Date : 19-OCT-2011 10:19
Client ID: FLC-5-MW02-092911
Sample Info: 1110003-14;ACID

Column phase: ZB MR-2

Instrument: ecd3.i

Operator: EM
Column diameter: 0.32



994

1110003

SP

Laboratory Name 10/24/11

J.H. 10.25.11

SW-846 METHODS 8081A/8082

Data file : \\ELABNSH05\TARGET\chem\ecd3.i\101911.b\006F0601.D
Lab Smp Id: SEQ-CCV2
Inj Date : 19-OCT-2011 10:38
Operator : EM
Inst ID: ecd3.i
Smp Info : SEQ-CCV2
Misc Info : ;;;;;;1660D.sub
Comment :
Method : \\ELABNSH05\TARGET\chem\ecd3.i\101911.b\8081_82F.m
Meth Date : 23-Oct-2011 21:40 spatrona
Quant Type: ESTD
Cal Date : 10-AUG-2011 19:35
Cal File: 002F0101.D
Als bottle: 6
Continuing Calibration Sample
Dil Factor: 1.00000
Integrator: Falcon
Compound Sublist: 1660D.sub
Target Version: 4.04
Sample Matrix: None
Processing Host: TARGET14_VM

RT	EXP RT	DLT RT	RESPONSE	AMOUNTS CAL-AMT (ng/mL)	AMOUNTS ON-COL (ng/mL)	TARGET RANGE	RATIO
29 PCB-1016					CAS #: 12674-11-2		
7.432	7.430	(0.002)	1839963	1000.00	1070	80.00- 120.00	100.00
6.867	6.867	(0.000)	847251	1000.00	1007	36.84- 55.26	46.05
7.089	7.087	(0.002)	834488	1000.00	1026	36.28- 54.42	45.35
7.405	7.403	(0.002)	1244949	1000.00	1010	54.13- 81.19	67.66
7.504	7.502	(0.002)	1036023			45.05- 67.57	56.31
7.619	7.618	(0.001)	828477	1000.00	1002	36.02- 54.03	45.03
Average of Peak Amounts =					1023		
35 PCB-1260					CAS #: 11096-82-5		
10.865	10.865	(0.000)	4230510	1000.00	1030	80.00- 120.00	100.00
9.384	9.382	(0.002)	1862347			35.22- 52.83	44.02
9.717	9.715	(0.002)	2378891	1000.00	1072	44.99- 67.48	56.23
10.072	10.072	(0.000)	2544746	1000.00	1042	48.12- 72.18	60.15
10.177	10.177	(0.000)	1849211	1000.00	1053	34.97- 52.45	43.71
10.464	10.462	(0.002)	1889588			35.73- 53.60	44.67
11.232	11.232	(0.000)	2570280			48.60- 72.91	60.76
11.984	11.983	(0.001)	1076981	1000.00	996.8	20.37- 30.55	25.46
Average of Peak Amounts =					1039		
$ 38 TCMX					CAS #: 877-09-8		
6.064	6.063	(0.001)	3678287	100.000	97.63		
$ 39 DCB					CAS #: 2051-24-3		
12.615	12.613	(0.002)	3410681	100.000	91.14		

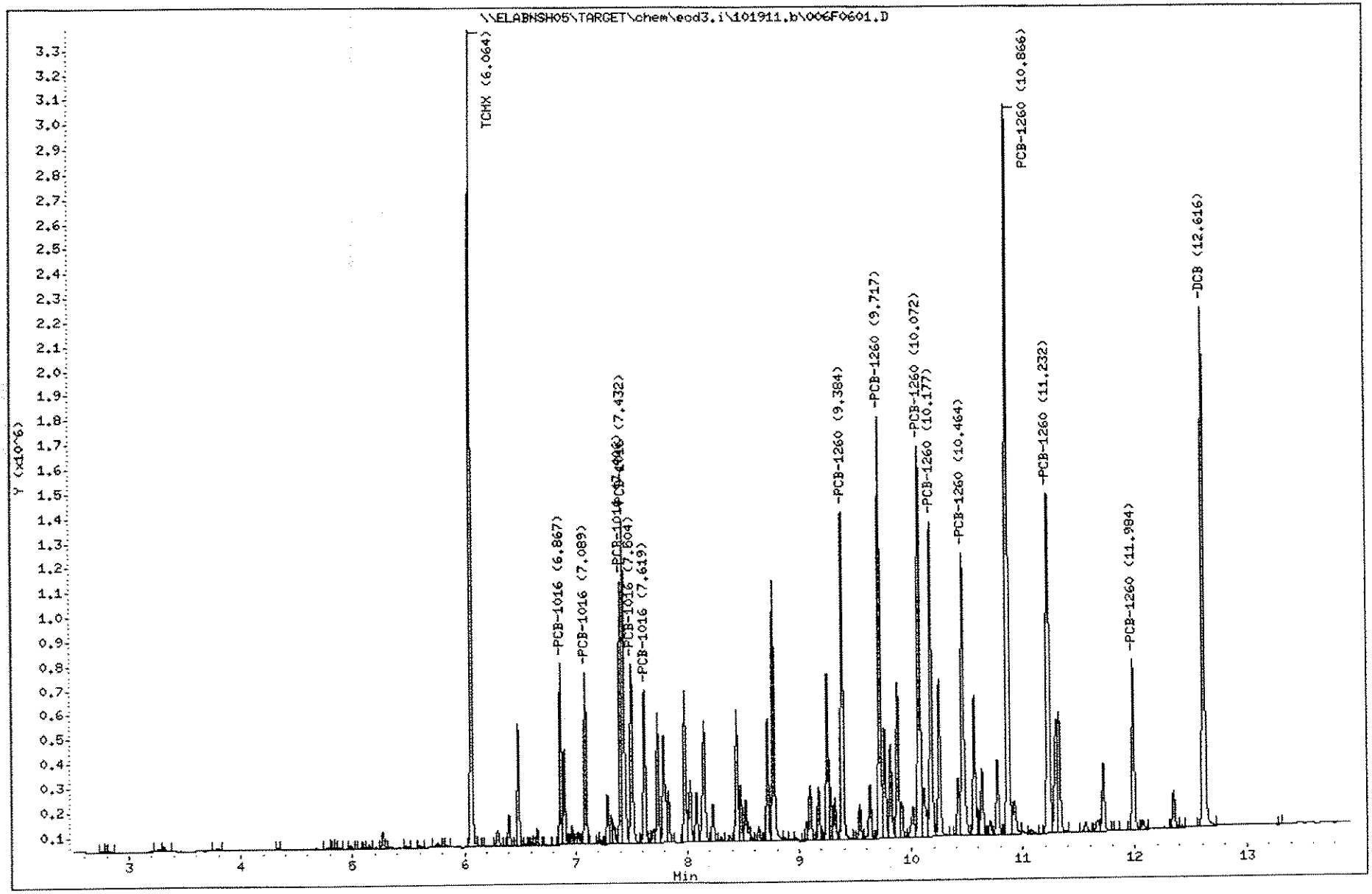
Data File: \\ELABNSH05\TARGET\chem\ecd3.i\101911.b\006F0601.D
Date : 19-OCT-2011 10:38
Client ID:
Sample Info: SEQ-CCV2

Instrument: ecd3.i

Operator: EM

Column phase: ZB HR-1

Column diameter: 0.32



SP

Laboratory Name

10/24/11

SW-846 METHODS 8081A/8082

D.H. 10.25.11

Data file : \\ELABNSH05\TARGET\chem\ecd3.i\101911.b\006R0601.D
Lab Smp Id: SEQ-CCV2
Inj Date : 19-OCT-2011 10:38
Operator : EM Inst ID: ecd3.i
Smp Info : SEQ-CCV2
Misc Info : ;;;;;;1660D.sub
Comment :
Method : \\ELABNSH05\TARGET\chem\ecd3.i\101911.b\8081_82R.m
Meth Date : 23-Oct-2011 21:40 spatrona Quant Type: ESTD
Cal Date : 10-AUG-2011 19:35 Cal File: 002R0101.D
Als bottle: 6 Continuing Calibration Sample
Dil Factor: 1.00000
Integrator: Falcon Compound Sublist: 1660D.sub
Target Version: 4.04 Sample Matrix: None
Processing Host: TARGET14_VM

RT	EXP RT	DLT RT	RESPONSE	AMOUNTS CAL-AMT (ng/mL)	AMOUNTS ON-COL (ng/mL)	TARGET RANGE	RATIO
**	======	========	========	=======	=======	==========	=====
29 PCB-1016 [2C]					CAS #: 12674-11-2		
6.621	6.619	(0.002)	2871670	1000.00	2357	80.00- 120.00	100.00
5.794	5.792	(0.002)	965476			26.90- 40.34	33.62
6.344	6.342	(0.002)	1387926	1000.00	2022	38.67- 58.00	48.33
6.601	6.599	(0.002)	1739276	1000.00	1828	48.45- 72.68	60.57
6.828	6.826	(0.002)	1081975	1000.00	1673	30.14- 45.21	37.68
6.924	6.924	(0.000)	1388368	1000.00	2079	38.68- 58.02	48.35
Average of Peak Amounts =					1992		
35 PCB-1260 [2C]					CAS #: 11096-82-5		
9.758	9.756	(0.002)	5699660	1000.00	2283	80.00- 120.00	100.00
8.643	8.641	(0.002)	3305080	1000.00	2150	46.39- 69.58	57.99
8.834	8.832	(0.002)	2772896	1000.00	1942	38.92- 58.38	48.65
9.059	9.057	(0.002)	3307777	1000.00	2181	46.43- 69.64	58.03
9.108	9.106	(0.002)	2800966			39.31- 58.97	49.14
9.441	9.439	(0.002)	2442620	1000.00	2204	34.28- 51.43	42.86
10.206	10.206	(0.000)	3951721			55.47- 83.20	69.33
10.859	10.857	(0.002)	1221699			17.15- 25.72	21.43
Average of Peak Amounts =					2152		
$ 38 TCMX [2C]					CAS #: 877-09-8		
5.371	5.369	(0.002)	5444326	100.000	147.7		(A)
$ 39 DCB [2C]					CAS #: 2051-24-3		
11.501	11.499	(0.002)	4175306	100.000	159.2		(A)

QC Flag Legend

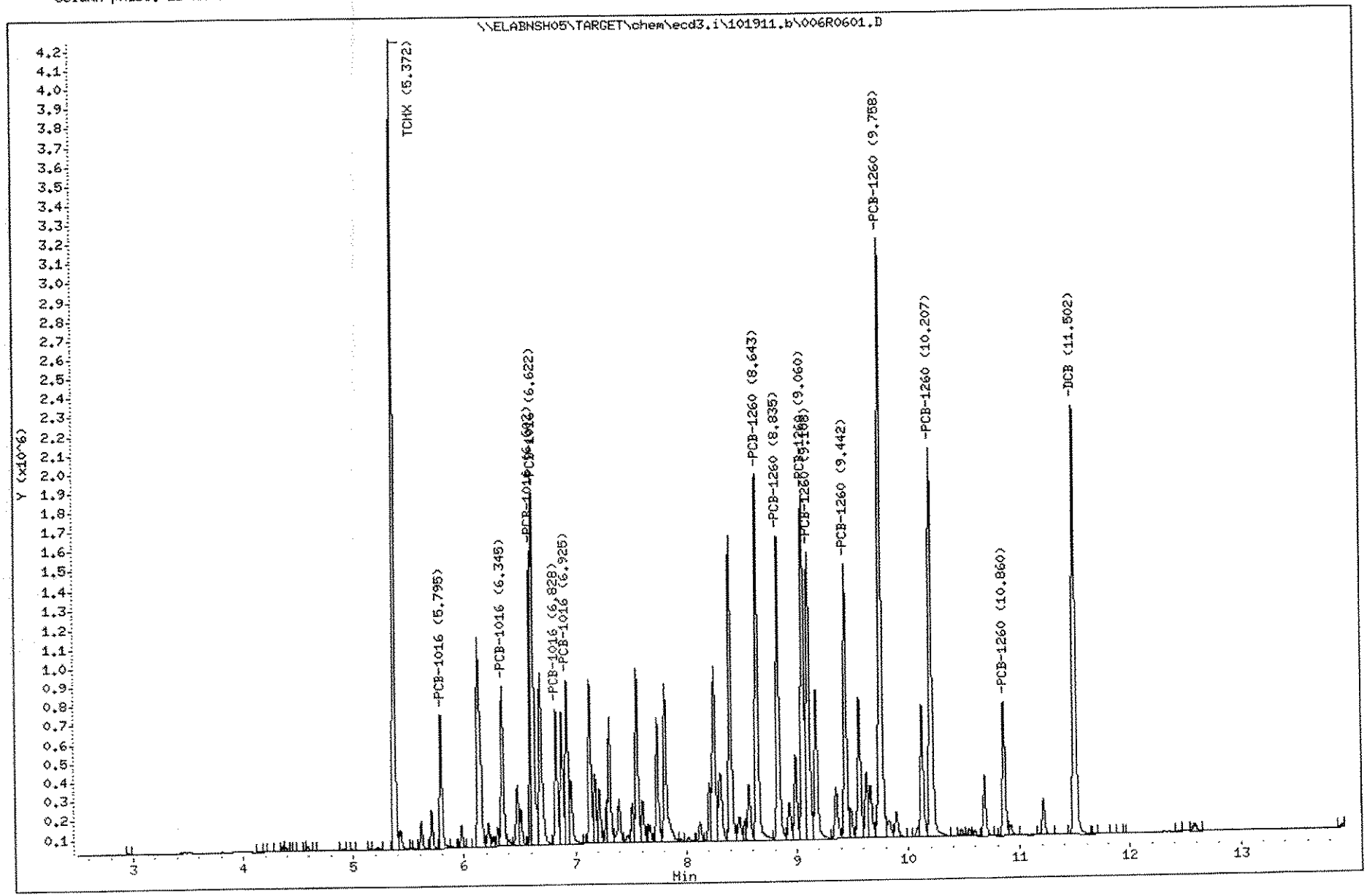
A - Target compound detected but, quantitated amount exceeded maximum amount.

Data File: \\ELABNSH05\TARGET\chem\ecd3.i\101911.b\006R0601.D
Date : 19-OCT-2011 10:38
Client ID:
Sample Info: SEQ-CCV2

Instrument: ecd3.i

Operator: EM
Column diameter: 0.32

Column phase: ZB MR-2



PREPARATION BENCH SHEET

1J04002

Empirical Laboratories, LLC **Printed: 11/1/2011 1:03:50PM**

Instrument:

Matrix: Water **Prepared using: EXT - EXT_3510** **Surrogate used: 11I0845**

Lab Number	Cont ID	Analysis	Prepared	Initial (mL)	Final (mL)	Spike ID	Source ID	ul Spike	ul Surrogate	PH	Extraction Comments
1110003-01	G	SGC_PCB8082A_3510	10/04/2011	1000	10				1000	NA	
1110003-03	J	SGC_PCB8082A_3510	10/04/2011	1000	10				1000	NA	
1110003-05	G	SGC_PCB8082A_3510	10/04/2011	1000	10				1000	NA	
1110003-07	H	SGC_PCB8082A_3510	10/04/2011	1000	10				1000	NA	
1110003-09	H	SGC_PCB8082A_3510	10/04/2011	1000	10				1000	NA	
1110003-11	I	SGC_PCB8082A_3510	10/04/2011	1000	10				1000	NA	
1110003-12	AE	SGC_PEST8081A_3510	10/04/2011	1000	10				1000	NA	Added for BatchQC in: 1J04002
1110003-12	AE	SGC_PCB8082A_3510	10/04/2011	1000	10				1000	NA	MS/MSD
1110003-14	I	SGC_PCB8082A_3510	10/04/2011	1000	10				1000	NA	
1J04002-BLK1		QC	10/04/2011	1000	10				1000	NA	
1J04002-BS1		QC	10/04/2011	1000	10	11I0722		1000	1000	NA	pest
1J04002-BS2		QC	10/04/2011	1000	10	11I0721		1000	1000	NA	pcb
1J04002-MS1		QC	10/04/2011	1000	10	11I0722	1110003-12	1000	1000	NA	pest
1J04002-MS2		QC	10/04/2011	1000	10	11I0721	1110003-12	1000	1000	NA	pcb
1J04002-MSD1		QC	10/04/2011	1000	10	11I0722	1110003-12	1000	1000	NA	pest
1J04002-MSD2		QC	10/04/2011	1000	10	11I0721	1110003-12	1000	1000	NA	pcb

Reagents Used:

Standard	Description
11I0738	Methylene Chloride
11I0761	Sodium Sulfate Anhydrous
11I0791	Hexanes

Spiking Witnessed By Date

Preparation Reviewed By Date

Extracts Received By Date

1000

1110003

PREPARATION BENCH SHEET

1J04002

Empirical Laboratories, LLC

Printed: 11/1/2011 1:03:50PM

Instrument:

Matrix: Water

Prepared using: EXT - EXT_3510

Surrogate used: 11I0845

Lab Number	Cont ID	Analysis	Prepared	Initial (mL)	Final (mL)	Spike ID	Source ID	ul Spike	ul Surrogate	PH	Extraction Comments

Spiking Witnessed By Date

Preparation Reviewed By Date

Extracts Received By Date

1001

1110003

PREPARATION BENCH SHEET

1J13003

Empirical Laboratories, LLC **Printed: 11/1/2011 1:05:01PM**

Instrument:

Matrix: Water **Prepared using: EXT - EXT_3510** **Surrogate used: 11J0279**

Lab Number	Cont ID	Analysis	Prepared	Initial (mL)	Final (mL)	Spike ID	Source ID	ul Spike	ul Surrogate	PH	Extraction Comments
1110003-14RE1	H	SGC_PCB8082A_3510	10/13/2011	1080	10				1000	NA	Re-extract added 10/13/2011 by DMG/ <10% rec reextract
1110082-02	E	SGC_PEST8081B_3510	10/13/2011	1070	10				1000	NA	
1110082-03	F	SGC_PEST8081B_3510	10/13/2011	1060	10				1000	NA	
1110082-04	G	SGC_PEST8081B_3510	10/13/2011	1060	10				1000	NA	
1110082-05	H	SGC_PEST8081B_3510	10/13/2011	1070	10				1000	NA	
1110082-06	H	SGC_PEST8081B_3510	10/13/2011	1020	10				1000	NA	
1110082-07	E	SGC_PEST8081B_3510	10/13/2011	1070	10				1000	NA	
1110082-08	F	SGC_PEST8081B_3510	10/13/2011	1060	10				1000	NA	
1110082-09	F	SGC_PEST8081B_3510	10/13/2011	1050	10				1000	NA	cap popped off. lost 50mL after surr
1110103-01	K	SGC_PEST8081A_3510	10/13/2011	1080	10				1000	NA	
1110103-03	K	SGC_PEST8081A_3510	10/13/2011	1040	10				1000	NA	
1110103-05	K	SGC_PEST8081A_3510	10/13/2011	1070	10				1000	NA	
1110103-07	K	SGC_PEST8081A_3510	10/13/2011	1070	10				1000	NA	
1110103-09	G	SGC_PEST8081A_3510	10/13/2011	1060	10				1000	NA	
1110103-10	G	SGC_PEST8081A_3510	10/13/2011	1060	10				1000	NA	Added for BatchQC in: 1J13003cap leaked. lost 50mL after surr
1110103-11	G	SGC_PCB8082A_3510	10/13/2011	1080	10				1000	NA	Added for BatchQC in: 1J13003cap leaked. lost 50mL after surr
1110103-11	G	SGC_PEST8081A_3510	10/13/2011	1080	10				1000	NA	Added for BatchQC in: 1J13003cap leaked. lost 50mL after surr
1110103-11	G	SGC_PEST8081B_3510	10/13/2011	1080	10				1000	NA	Added for BatchQC in: 1J13003cap leaked. lost 50mL after surr
1J13003-BLK1		QC	10/13/2011	1000	10				1000	NA	
1J13003-BLK2		QC	10/13/2011	1000	10				1000	NA	added 10/23/11 by SLP acid cleaned
1J13003-BS1		QC	10/13/2011	1000	10	11J0324		1000	1000	NA	
1J13003-BS2		QC	10/13/2011	1000	10	11I0721		1000	1000	NA	pcb

Spiking Witnessed By Date

Preparation Reviewed By Date

Extracts Received By Date

1002

1110003

PREPARATION BENCH SHEET

1J13003

Empirical Laboratories, LLC

Printed: 11/1/2011 1:05:01PM

Instrument:

Matrix: Water **Prepared using: EXT - EXT_3510** **Surrogate used: 11J0279**

Lab Number	Cont ID	Analysis	Prepared	Initial (mL)	Final (mL)	Spike ID	Source ID	ul Spike	ul Surrogate	PH	Extraction Comments
1J13003-BS3		QC	10/13/2011	1000	10	11I0721		1000	1000	NA	added 10/23/11 by SLP acid cleaned
1J13003-MS1		QC	10/13/2011	1040	10	11J0324	1110103-11	1000	1000	NA	
1J13003-MSD1		QC	10/13/2011	1060	10	11J0324	1110103-11	1000	1000	NA	

Reagents Used:

Standard	Description
11I0761	Sodium Sulfate Anhydrous
11I0791	Hexanes
11J0287	Methylene Chloride

Spiking Witnessed By Date

Preparation Reviewed By Date

Extracts Received By Date

1003

1110003

Data for FLPRO Forms

ANALYSIS SEQUENCE SUMMARY

FLPRO

Laboratory:	Empirical Laboratories, LLC	SDG:	1110003
Client:	Tetra Tech NUS, Inc. (T010)	Project:	Navy Fuel Depot CTO JM46
Sequence:	1J29108	Instrument:	GL-GCFID2
Calibration:	1291002		

Sample Name	Lab Sample ID	Lab File ID	Analysis Date/Time
Cal Standard	1J29108-CAL6	002F0201.D	10/13/11 19:18
Cal Standard	1J29108-CAL5	003F0301.D	10/14/11 09:51
Cal Standard	1J29108-CAL4	004F0401.D	10/14/11 10:25
Cal Standard	1J29108-CAL3	005F0501.D	10/14/11 10:58
Cal Standard	1J29108-CAL2	006F0601.D	10/14/11 11:32
Cal Standard	1J29108-CAL1	007F0701.D	10/14/11 12:05
Initial Cal Check	1J29108-ICV1	008F0801.D	10/14/11 12:39

ANALYSIS SEQUENCE SUMMARY

FLPRO

Laboratory:	Empirical Laboratories, LLC	SDG:	1110003
Client:	Tetra Tech NUS, Inc. (T010)	Project:	Navy Fuel Depot CTO JM46
Sequence:	1J29109	Instrument:	GL-GCFID2
Calibration:	1291002		

Sample Name	Lab Sample ID	Lab File ID	Analysis Date/Time
Calibration Check	1J29109-CCV1	009F0901.D	10/14/11 13:12
Blank	1J07001-BLK1	010F1001.D	10/14/11 13:45
LCS	1J07001-BS1	011F1101.D	10/14/11 14:19
FLC-4-MW01-092911	1110003-01RE1	012F1201.D	10/14/11 14:52
FLC-4-MW02-092911	1110003-03RE1	013F1301.D	10/14/11 15:26
FLC-5-MW05-092911	1110003-05RE1	014F1401.D	10/14/11 15:59
FLC-5-MW04-092911	1110003-07RE1	015F1501.D	10/14/11 16:32
FLC-5-MW03-092911	1110003-09RE1	016F1601.D	10/14/11 17:06
FLC-RB02-092911	1110003-11RE1	017F1701.D	10/14/11 17:39
FLC-5-MW02-092911	1110003-14RE1	021F2101.D	10/14/11 19:52
Calibration Check	1J29109-CCV2	022F2201.D	10/14/11 20:25

ANALYSIS SEQUENCE SUMMARY

FLPRO

Laboratory:	Empirical Laboratories, LLC	SDG:	1110003
Client:	Tetra Tech NUS, Inc. (T010)	Project:	Navy Fuel Depot CTO JM46
Sequence:	1J29310	Instrument:	GL-GCFID2
Calibration:	1291002		

Sample Name	Lab Sample ID	Lab File ID	Analysis Date/Time
Calibration Check	1J29310-CCV1	017F1701.D	10/19/11 01:01
FLC-5-MW01-092911	1110003-12RE1	018F1801.D	10/19/11 01:34
FLC-5-MW01-092911	1J07001-MS1	019F1901.D	10/19/11 02:07
FLC-5-MW01-092911	1J07001-MSD1	020F2001.D	10/19/11 02:40
Calibration Check	1J29310-CCV2	021F2101.D	10/19/11 03:13

ANALYSIS DATA SHEET

FLC-4-MW01-092911

Laboratory:	Empirical Laboratories, LLC			SDG:	1110003
Client:	Tetra Tech NUS, Inc. (T010)			Project:	Navy Fuel Depot CTO JM46
Matrix:	Water	Laboratory ID:	1110003-01RE1	File ID:	012F1201.D
Sampled:	09/29/11 08:20	Prepared:	10/07/11 13:48	Analyzed:	10/14/11 14:52
Solids:		Preparation:	EXT_3510	Dilution:	1

Batch: 1J07001 Sequence: 1J29109 Calibration: 1291002 Instrument: GL-GCFID2

CAS NO.	COMPOUND	CONC. (mg/L)	DL	LOD	LOQ	Q
	Petroleum Range Organics		0.157	0.315	0.630	H2, Q, U

SYSTEM MONITORING COMPOUND	ADDED (mg/L)	CONC (mg/L)	% REC	QC LIMITS	Q
2-Fluorobiphenyl	0.04630	0.03987	86.1	50 - 150	H2, X
o-Terphenyl	0.04630	0.04749	103	82 - 142	H2

ANALYSIS DATA SHEET

FLC-4-MW02-092911

Laboratory:	Empirical Laboratories, LLC			SDG:	1110003
Client:	Tetra Tech NUS, Inc. (T010)			Project:	Navy Fuel Depot CTO JM46
Matrix:	Water	Laboratory ID:	1110003-03RE1	File ID:	013F1301.D
Sampled:	09/29/11 09:30	Prepared:	10/07/11 13:48	Analyzed:	10/14/11 15:26
Solids:		Preparation:	EXT_3510	Dilution:	1

Batch: 1J07001 Sequence: 1J29109 Calibration: 1291002 Instrument: GL-GCFID2

CAS NO.	COMPOUND	CONC. (mg/L)	DL	LOD	LOQ	Q
	Petroleum Range Organics		0.159	0.318	0.636	H2, Q, U

SYSTEM MONITORING COMPOUND	ADDED (mg/L)	CONC (mg/L)	% REC	QC LIMITS	Q
2-Fluorobiphenyl	0.04673	0.04974	106	50 - 150	H2, X
o-Terphenyl	0.04673	0.06078	130	82 - 142	H2

ANALYSIS DATA SHEET

FLC-5-MW05-092911

Laboratory:	Empirical Laboratories, LLC			SDG:	1110003
Client:	Tetra Tech NUS, Inc. (T010)			Project:	Navy Fuel Depot CTO JM46
Matrix:	Water	Laboratory ID:	1110003-05RE1	File ID:	014F1401.D
Sampled:	09/29/11 11:25	Prepared:	10/07/11 13:48	Analyzed:	10/14/11 15:59
Solids:		Preparation:	EXT_3510	Dilution:	1

Batch: 1J07001 Sequence: 1J29109 Calibration: 1291002 Instrument: GL-GCFID2

CAS NO.	COMPOUND	CONC. (mg/L)	DL	LOD	LOQ	Q
	Petroleum Range Organics	1.09	0.157	0.315	0.630	H2, Q

SYSTEM MONITORING COMPOUND	ADDED (mg/L)	CONC (mg/L)	% REC	QC LIMITS	Q
2-Fluorobiphenyl	0.04630	0.03212	69.4	50 - 150	H2, X
o-Terphenyl	0.04630	0.02940	63.5	82 - 142	*H2

ANALYSIS DATA SHEET

FLC-5-MW04-092911

Laboratory:	Empirical Laboratories, LLC			SDG:	1110003
Client:	Tetra Tech NUS, Inc. (T010)			Project:	Navy Fuel Depot CTO JM46
Matrix:	Water	Laboratory ID:	1110003-07RE1	File ID:	015F1501.D
Sampled:	09/29/11 12:50	Prepared:	10/07/11 13:48	Analyzed:	10/14/11 16:32
Solids:		Preparation:	EXT_3510	Dilution:	1

Batch: 1J07001 Sequence: 1J29109 Calibration: 1291002 Instrument: GL-GCFID2

CAS NO.	COMPOUND	CONC. (mg/L)	DL	LOD	LOQ	Q
	Petroleum Range Organics		0.157	0.315	0.630	H2, Q, U

SYSTEM MONITORING COMPOUND	ADDED (mg/L)	CONC (mg/L)	% REC	QC LIMITS	Q
2-Fluorobiphenyl	0.04630	0.03773	81.5	50 - 150	H2, X
o-Terphenyl	0.04630	0.03417	73.8	82 - 142	*H2

ANALYSIS DATA SHEET

FLC-5-MW03-092911

Laboratory:	Empirical Laboratories, LLC			SDG:	1110003
Client:	Tetra Tech NUS, Inc. (T010)			Project:	Navy Fuel Depot CTO JM46
Matrix:	Water	Laboratory ID:	1110003-09RE1	File ID:	016F1601.D
Sampled:	09/29/11 14:00	Prepared:	10/07/11 13:48	Analyzed:	10/14/11 17:06
Solids:		Preparation:	EXT_3510	Dilution:	1

Batch: 1J07001 Sequence: 1J29109 Calibration: 1291002 Instrument: GL-GCFID2

CAS NO.	COMPOUND	CONC. (mg/L)	DL	LOD	LOQ	Q
	Petroleum Range Organics	2.04	0.157	0.315	0.630	H2, Q

SYSTEM MONITORING COMPOUND	ADDED (mg/L)	CONC (mg/L)	% REC	QC LIMITS	Q
2-Fluorobiphenyl	0.04630	0.03695	79.8	50 - 150	H2, X
o-Terphenyl	0.04630	0.02453	53.0	82 - 142	*H2

ANALYSIS DATA SHEET

FLC-RB02-092911

Laboratory:	Empirical Laboratories, LLC			SDG:	1110003
Client:	Tetra Tech NUS, Inc. (T010)			Project:	Navy Fuel Depot CTO JM46
Matrix:	Water	Laboratory ID:	1110003-11RE1	File ID:	017F1701.D
Sampled:	09/29/11 14:35	Prepared:	10/07/11 13:48	Analyzed:	10/14/11 17:39
Solids:		Preparation:	EXT_3510	Dilution:	1

Batch: 1J07001 Sequence: 1J29109 Calibration: 1291002 Instrument: GL-GCFID2

CAS NO.	COMPOUND	CONC. (mg/L)	DL	LOD	LOQ	Q
	Petroleum Range Organics		0.157	0.315	0.630	H2, Q, U

SYSTEM MONITORING COMPOUND	ADDED (mg/L)	CONC (mg/L)	% REC	QC LIMITS	Q
2-Fluorobiphenyl	0.04630	0.04025	86.9	50 - 150	H2, X
o-Terphenyl	0.04630	0.04255	91.9	82 - 142	H2

ANALYSIS DATA SHEET

FLC-5-MW01-092911

Laboratory:	Empirical Laboratories, LLC			SDG:	1110003
Client:	Tetra Tech NUS, Inc. (T010)			Project:	Navy Fuel Depot CTO JM46
Matrix:	Water	Laboratory ID:	1110003-12RE1	File ID:	018F1801.D
Sampled:	09/30/11 09:15	Prepared:	10/07/11 13:48	Analyzed:	10/19/11 01:34
Solids:		Preparation:	EXT_3510	Dilution:	2

Batch: 1J07001 Sequence: 1J29310 Calibration: 1291002 Instrument: GL-GCFID2

CAS NO.	COMPOUND	CONC. (mg/L)	DL	LOD	LOQ	Q
	Petroleum Range Organics	18.9	0.315	0.630	1.26	N, Q, D

SYSTEM MONITORING COMPOUND	ADDED (mg/L)	CONC (mg/L)	% REC	QC LIMITS	Q
2-Fluorobiphenyl	0.04630	0.06658	144	50 - 150	X
o-Terphenyl	0.04630	0.03173	68.5	82 - 142	*

ANALYSIS DATA SHEET

FLC-5-MW02-092911

Laboratory:	Empirical Laboratories, LLC			SDG:	1110003
Client:	Tetra Tech NUS, Inc. (T010)			Project:	Navy Fuel Depot CTO JM46
Matrix:	Water	Laboratory ID:	1110003-14RE1	File ID:	021F2101.D
Sampled:	09/30/11 11:05	Prepared:	10/07/11 13:48	Analyzed:	10/14/11 19:52
Solids:		Preparation:	EXT_3510	Dilution:	1

Batch: 1J07001 Sequence: 1J29109 Calibration: 1291002 Instrument: GL-GCFID2

CAS NO.	COMPOUND	CONC. (mg/L)	DL	LOD	LOQ	Q
	Petroleum Range Organics	2.59	0.157	0.315	0.630	Q

SYSTEM MONITORING COMPOUND	ADDED (mg/L)	CONC (mg/L)	% REC	QC LIMITS	Q
2-Fluorobiphenyl	0.04630	0.04677	101	50 - 150	X
o-Terphenyl	0.04630	0.03226	69.7	82 - 142	*

LCS / LCS DUPLICATE RECOVERY

FLPRO

Laboratory:	Empirical Laboratories, LLC	SDG:	1110003
Client:	Tetra Tech NUS, Inc. (T010)	Project:	Navy Fuel Depot CTO JM46
Matrix:	Water		
Batch:	1J07001	Laboratory ID:	1J07001-BS1
Preparation:	EXT_3510	Initial/Final:	1000 mL / 2 mL

ANALYTE	SPIKE ADDED (mg/L)	LCS CONCENTRATION (mg/L)	LCS % REC.	QC LIMITS REC.
Petroleum Range Organics	**3.200**	**3.999**	**125**	**55 - 118**

MATRIX SPIKE / MATRIX SPIKE DUPLICATE RECOVERY

FLPRO

FLC-5-MW01-092911

Laboratory: Empirical Laboratories, LLC

SDG: 1110003

Client: Tetra Tech NUS, Inc. (T010)

Project: Navy Fuel Depot CTO JM46

Matrix: Water

Batch: 1J07001

% Solids:

Source Sample Name: **1110003-12RE1**

ANALYTE	SPIKE ADDED (mg/L)	SAMPLE CONCENTRATION (mg/L)	MS CONCENTRATION (mg/L)	MS % REC.	Q	QC LIMITS REC.
Petroleum Range Organics	2.963	18.88	26.15	245	*	55 - 118

ANALYTE	SPIKE ADDED (mg/L)	MSD CONCENTRATION (mg/L)	MSD % REC. #	% RPD	Q	QC LIMITS RPD	QC LIMITS REC.
Petroleum Range Organics	2.963	26.78	267	2.39	*	30	55 - 118

PREPARATION BATCH SUMMARY

FLPRO

Laboratory: Empirical Laboratories, LLC SDG: 1110003

Client: Tetra Tech NUS, Inc. (T010) Project: Navy Fuel Depot CTO JM46

Batch: 1J07001 Batch Matrix: Water Preparation: EXT_3510

SAMPLE NAME	LAB SAMPLE ID	DATE PREPARED	INITIAL VOL./WEIGHT	FINAL VOL.
FLC-4-MW01-092911	1110003-01RE1	10/07/11 13:48	1,080.00	2.00
FLC-4-MW02-092911	1110003-03RE1	10/07/11 13:48	1,070.00	2.00
FLC-5-MW05-092911	1110003-05RE1	10/07/11 13:48	1,080.00	2.00
FLC-5-MW04-092911	1110003-07RE1	10/07/11 13:48	1,080.00	2.00
FLC-5-MW03-092911	1110003-09RE1	10/07/11 13:48	1,080.00	2.00
FLC-RB02-092911	1110003-11RE1	10/07/11 13:48	1,080.00	2.00
FLC-5-MW01-092911	1110003-12RE1	10/07/11 13:48	1,080.00	2.00
FLC-5-MW02-092911	1110003-14RE1	10/07/11 13:48	1,080.00	2.00
Blank	1J07001-BLK1	10/07/11 13:48	1,000.00	2.00
LCS	1J07001-BS1	10/07/11 13:48	1,000.00	2.00
FLC-5-MW01-092911	1J07001-MS1	10/07/11 13:48	1,080.00	2.00
FLC-5-MW01-092911	1J07001-MSD1	10/07/11 13:48	1,080.00	2.00

INITIAL CALIBRATION STANDARDS

FLPRO

Laboratory:	Empirical Laboratories, LLC	SDG:	1110003
Client:	Tetra Tech NUS, Inc. (T010)	Project:	Navy Fuel Depot CTO JM46
Sequence:	1J29108	Instrument:	GL-GCFID2
Calibration:	1291002		

Standard ID	Description	Lab Sample ID	Lab File ID	Analysis Date/Time
11H0600	FLPRO CAL6 85ppm	1J29108-CAL6	002F0201.D	10/13/11 19:18
11H0599	FLPRO CAL5 850ppm	1J29108-CAL5	003F0301.D	10/14/11 09:51
11H0598	FLPRO CAL4 2550ppm	1J29108-CAL4	004F0401.D	10/14/11 10:25
11H0597	FLPRO CAL3 4250ppm	1J29108-CAL3	005F0501.D	10/14/11 10:58
11H0596	FLPRO CAL2 5950ppm	1J29108-CAL2	006F0601.D	10/14/11 11:32
11H0595	FLPRO CAL1 8500ppm	1J29108-CAL1	007F0701.D	10/14/11 12:05

INITIAL CALIBRATION DATA

FLPRO

Laboratory:	Empirical Laboratories, LLC	SDG:	1110003
Client:	Tetra Tech NUS, Inc. (T010)	Project:	Navy Fuel Depot CTO JM46
Calibration:	1291002	Instrument:	GL-GCFID2
Matrix:	Water	Calibration Dates:	10/13/11 19:18 10/14/11 12:05

Compound	Level 01		Level 02		Level 03		Level 04		Level 05		Level 06	
	mg/L	RF	mg/L	RF	mg/L	RF	mg/L	RF	mg/L	RF	mg/L	RF
Petroleum Range Organics	8500	787.1541	5950	695.4976	4250	719.5845	2550	772.4824	850	688.6188	85	627.4353
2-Fluorobiphenyl	50	984.46	35	878.4	25	732.16	15	468.2667	5	140.4	0.5	~~668~~
o-Terphenyl	50	1297.46	35	1284.2	25	1224	15	1278.933	5	1145.4	0.5	854

INITIAL CALIBRATION DATA (Continued)

FLPRO

Laboratory:	Empirical Laboratories, LLC	SDG:	1110003
Client:	Tetra Tech NUS, Inc. (T010)	Project:	Navy Fuel Depot CTO JM46
Calibration:	1291002	Instrument:	GL-GCFID2
Matrix:	Water	Calibration Dates:	10/13/11 19:18 10/14/11 12:05

Compound	Mean RF	RF RSD	Mean RT	RT RSD	Linear r	Quad COD	LIMIT	Q
Petroleum Range Organics	715.1288	8.219451	4.136	1.840415E-02			20	
2-Fluorobiphenyl	640.7373	53.10233	9.1824	0.3400238		0.9953702	0.99	
o-Terphenyl	1180.666	14.36617	11.353	0.3525108			20	

INITIAL CALIBRATION CHECK

FLPRO

Laboratory:	Empirical Laboratories, LLC	SDG:	1110003
Client:	Tetra Tech NUS, Inc. (T010)	Project:	Navy Fuel Depot CTO JM46
Instrument ID:	GL-GCFID2	Calibration:	1291002
Lab File ID:	008F0801.D	Calibration Date:	10/13/11 14:03
Sequence:	1J29108	Injection Date:	10/14/11
Lab Sample ID:	1J29108-ICV1	Injection Time:	12:39

		CONC. (mg/L)		RESPONSE FACTOR			% DIFF / DRIFT	
COMPOUND	TYPE	STD	ICV	ICAL	ICV	MIN (#)	ICV	LIMIT (#)
Petroleum Range Organics	A	4000	4679	715.1288	836.5883		17.0	25

Column to be used to flag Response Factor and %Diff/Drift values with an asterisk

* Values outside of QC limits

CONTINUING CALIBRATION CHECK

FLPRO

Laboratory:	Empirical Laboratories, LLC	SDG:	1110003
Client:	Tetra Tech NUS, Inc. (T010)	Project:	Navy Fuel Depot CTO JM46
Instrument ID:	GL-GCFID2	Calibration:	1291002
Lab File ID:	009F0901.D	Calibration Date:	10/13/11 14:03
Sequence:	1J29109	Injection Date:	10/14/11
Lab Sample ID:	1J29109-CCV1	Injection Time:	13:12

		CONC. (mg/L)		RESPONSE FACTOR			% DIFF / DRIFT	
COMPOUND	TYPE	STD	CCV	ICAL	CCV	MIN (#)	CCV	LIMIT (#)
Petroleum Range Organics	A	4250	3789	715.1288	637.5162		-10.9	25
2-Fluorobiphenyl	Q	25.00	26.08	640.7373	785.08		4.3	25
o-Terphenyl	A	25.00	27.53	1180.666	1300.28		10.1	25

Column to be used to flag Response Factor and %Diff/Drift values with an asterisk

* Values outside of QC limits

CONTINUING CALIBRATION CHECK

FLPRO

Laboratory:	Empirical Laboratories, LLC	SDG:	1110003
Client:	Tetra Tech NUS, Inc. (T010)	Project:	Navy Fuel Depot CTO JM46
Instrument ID:	GL-GCFID2	Calibration:	1291002
Lab File ID:	022F2201.D	Calibration Date:	10/13/11 14:03
Sequence:	1J29109	Injection Date:	10/14/11
Lab Sample ID:	1J29109-CCV2	Injection Time:	20:25

		CONC. (mg/L)		RESPONSE FACTOR			% DIFF / DRIFT	
COMPOUND	TYPE	STD	CCV	ICAL	CCV	MIN (#)	CCV	LIMIT (#)
Petroleum Range Organics	A	4250	3776	715.1288	635.4247		-11.1	25
2-Fluorobiphenyl	Q	25.00	32.42	640.7373	1062.16		29.7	25 *
o-Terphenyl	A	25.00	27.50	1180.666	1298.6		10.0	25

Column to be used to flag Response Factor and %Diff/Drift values with an asterisk

* Values outside of QC limits

CONTINUING CALIBRATION CHECK

FLPRO

Laboratory:	Empirical Laboratories, LLC	SDG:	1110003
Client:	Tetra Tech NUS, Inc. (T010)	Project:	Navy Fuel Depot CTO JM46
Instrument ID:	GL-GCFID2	Calibration:	1291002
Lab File ID:	017F1701.D	Calibration Date:	10/13/11 14:03
Sequence:	1J29310	Injection Date:	10/19/11
Lab Sample ID:	1J29310-CCV1	Injection Time:	01:01

		CONC. (mg/L)		RESPONSE FACTOR			% DIFF / DRIFT	
COMPOUND	TYPE	STD	CCV	ICAL	CCV	MIN (#)	CCV	LIMIT (#)
Petroleum Range Organics	A	4250	3631	715.1288	610.9673		-14.6	25
2-Fluorobiphenyl	Q	25.00	29.15	640.7373	916.64		16.6	25
o-Terphenyl	A	25.00	26.31	1180.666	1242.76		5.3	25

Column to be used to flag Response Factor and %Diff/Drift values with an asterisk

* Values outside of QC limits

CONTINUING CALIBRATION CHECK

FLPRO

Laboratory:	Empirical Laboratories, LLC	SDG:	1110003
Client:	Tetra Tech NUS, Inc. (T010)	Project:	Navy Fuel Depot CTO JM46
Instrument ID:	GL-GCFID2	Calibration:	1291002
Lab File ID:	021F2101.D	Calibration Date:	10/13/11 14:03
Sequence:	1J29310	Injection Date:	10/19/11
Lab Sample ID:	1J29310-CCV2	Injection Time:	03:13

		CONC. (mg/L)		RESPONSE FACTOR			% DIFF / DRIFT	
COMPOUND	TYPE	STD	CCV	ICAL	CCV	MIN (#)	CCV	LIMIT (#)
Petroleum Range Organics	A	4250	3738	715.1288	628.9828		-12.0	25
2-Fluorobiphenyl	Q	25.00	32.15	640.7373	1050.04		28.6	25 *
o-Terphenyl	A	25.00	27.10	1180.666	1280.12		8.4	25

Column to be used to flag Response Factor and %Diff/Drift values with an asterisk

* Values outside of QC limits

SURROGATE STANDARD RECOVERY AND RT SUMMARY

FLPRO

Laboratory:	Empirical Laboratories, LLC	SDG:	1110003
Client:	Tetra Tech NUS, Inc. (T010)	Project:	Navy Fuel Depot CTO JM46
Sequence:	1J29109	Instrument:	GL-GCFID2
		Calibration:	1291002

Surrogate Compound	Spike Level	% Recovery	Recovery Limits	RT	CCV RT	RT Diff	RT Diff Limit	Q
Calibration Check (1J29109-CCV1) mg/L				Lab File ID: 009F0901.D		Analyzed: 10/14/11 13:12		
2-Fluorobiphenyl	25.00	104	75 - 125	9.166	9.166	0.0000	+/-0.050	
o-Terphenyl	25.00	110	75 - 125	11.333	11.333	0.0000	+/-0.050	
Blank (1J07001-BLK1) mg/L				Lab File ID: 010F1001.D		Analyzed: 10/14/11 13:45		
2-Fluorobiphenyl	0.05000	83.7	50 - 150	9.2	9.166	0.0340	+/-0.050	
o-Terphenyl	0.05000	98.8	82 - 142	11.336	11.333	0.0030	+/-0.050	
LCS (1J07001-BS1) mg/L				Lab File ID: 011F1101.D		Analyzed: 10/14/11 14:19		
2-Fluorobiphenyl	0.05000	121	50 - 150	9.166	9.166	0.0000	+/-0.050	
o-Terphenyl	0.05000	137	82 - 142	11.32	11.333	-0.0130	+/-0.050	
FLC-4-MW01-092911 (1110003-01RE1) mg/L				Lab File ID: 012F1201.D		Analyzed: 10/14/11 14:52		
2-Fluorobiphenyl	0.04630	86.1	50 - 150	9.186	9.166	0.0200	+/-0.050	
o-Terphenyl	0.04630	103	82 - 142	11.33	11.333	-0.0030	+/-0.050	
FLC-4-MW02-092911 (1110003-03RE1) mg/L				Lab File ID: 013F1301.D		Analyzed: 10/14/11 15:26		
2-Fluorobiphenyl	0.04673	106	50 - 150	9.176	9.166	0.0100	+/-0.050	
o-Terphenyl	0.04673	130	82 - 142	11.31	11.333	-0.0230	+/-0.050	
FLC-5-MW05-092911 (1110003-05RE1) mg/L				Lab File ID: 014F1401.D		Analyzed: 10/14/11 15:59		
2-Fluorobiphenyl	0.04630	69.4	50 - 150	9.166	9.166	0.0000	+/-0.050	
o-Terphenyl	0.04630	63.5	82 - 142	11.31	11.333	-0.0230	+/-0.050	*
FLC-5-MW04-092911 (1110003-07RE1) mg/L				Lab File ID: 015F1501.D		Analyzed: 10/14/11 16:32		
2-Fluorobiphenyl	0.04630	81.5	50 - 150	9.183	9.166	0.0170	+/-0.050	
o-Terphenyl	0.04630	73.8	82 - 142	11.313	11.333	-0.0200	+/-0.050	*
FLC-5-MW03-092911 (1110003-09RE1) mg/L				Lab File ID: 016F1601.D		Analyzed: 10/14/11 17:06		
2-Fluorobiphenyl	0.04630	79.8	50 - 150	9.16	9.166	-0.0060	+/-0.050	
o-Terphenyl	0.04630	53.0	82 - 142	11.303	11.333	-0.0300	+/-0.050	*
FLC-RB02-092911 (1110003-11RE1) mg/L				Lab File ID: 017F1701.D		Analyzed: 10/14/11 17:39		
2-Fluorobiphenyl	0.04630	86.9	50 - 150	9.173	9.166	0.0070	+/-0.050	
o-Terphenyl	0.04630	91.9	82 - 142	11.33	11.333	-0.0030	+/-0.050	
FLC-5-MW02-092911 (1110003-14RE1) mg/L				Lab File ID: 021F2101.D		Analyzed: 10/14/11 19:52		
2-Fluorobiphenyl	0.04630	101	50 - 150	9.156	9.166	-0.0100	+/-0.050	
o-Terphenyl	0.04630	69.7	82 - 142	11.286	11.333	-0.0470	+/-0.050	*
Calibration Check (1J29109-CCV2) mg/L				Lab File ID: 022F2201.D		Analyzed: 10/14/11 20:25		
2-Fluorobiphenyl	25.00	130	75 - 125	9.153	9.166	-0.0130	+/-0.050	*
o-Terphenyl	25.00	110	75 - 125	11.28	11.333	-0.0530	+/-0.050	*

SURROGATE STANDARD RECOVERY AND RT SUMMARY

FLPRO

Laboratory:	Empirical Laboratories, LLC	SDG:	1110003
Client:	Tetra Tech NUS, Inc. (T010)	Project:	Navy Fuel Depot CTO JM46
Sequence:	1J29310	Instrument:	GL-GCFID2
		Calibration:	1291002

Surrogate Compound	Spike Level	% Recovery	Recovery Limits	RT	CCV RT	RT Diff	RT Diff Limit	Q
Calibration Check (1J29310-CCV1) mg/L				Lab File ID: 017F1701.D		Analyzed: 10/19/11 01:01		
2-Fluorobiphenyl	25.00	117	75 - 125	9.15	9.15	0.0000	+/-0.050	
o-Terphenyl	25.00	105	75 - 125	11.263	11.263	0.0000	+/-0.050	
FLC-5-MW01-092911 (1110003-12RE1) mg/L				Lab File ID: 018F1801.D		Analyzed: 10/19/11 01:34		
2-Fluorobiphenyl	0.04630	144	50 - 150	9.146	9.15	-0.0040	+/-0.050	
o-Terphenyl	0.04630	68.5	82 - 142	11.256	11.263	-0.0070	+/-0.050	*
Matrix Spike (1J07001-MS1) mg/L				Lab File ID: 019F1901.D		Analyzed: 10/19/11 02:07		
2-Fluorobiphenyl	0.04630	156	50 - 150	9.143	9.15	-0.0070	+/-0.050	*
o-Terphenyl	0.04630	111	82 - 142	11.26	11.263	-0.0030	+/-0.050	
Matrix Spike Dup (1J07001-MSD1) mg/L				Lab File ID: 020F2001.D		Analyzed: 10/19/11 02:40		
2-Fluorobiphenyl	0.04630	157	50 - 150	9.143	9.15	-0.0070	+/-0.050	*
o-Terphenyl	0.04630	111	82 - 142	11.256	11.263	-0.0070	+/-0.050	
Calibration Check (1J29310-CCV2) mg/L				Lab File ID: 021F2101.D		Analyzed: 10/19/11 03:13		
2-Fluorobiphenyl	25.00	129	75 - 125	9.15	9.15	0.0000	+/-0.050	*
o-Terphenyl	25.00	108	75 - 125	11.27	11.263	0.0070	+/-0.050	

HOLDING TIME SUMMARY
FLPRO

Laboratory: Empirical Laboratories, LLC SDG: 1110003

Client: Tetra Tech NUS, Inc. (T010) Project: Navy Fuel Depot CTO JM46

Sample Name	Date Collected	Date Received	Date Prepared	Days to Prep	Max Days to Prep	Date Analyzed	Days to Analysis	Max Days to Analysis	Q
FLC-4-MW01-092911	09/29/11 08:20	10/01/11 09:10	10/07/11 13:48	8.27	7.00	10/14/11 14:52	7.04	40.00	*
FLC-4-MW02-092911	09/29/11 09:30	10/01/11 09:10	10/07/11 13:48	8.22	7.00	10/14/11 15:26	7.07	40.00	*
FLC-5-MW05-092911	09/29/11 11:25	10/01/11 09:10	10/07/11 13:48	8.14	7.00	10/14/11 15:59	7.09	40.00	*
FLC-5-MW04-092911	09/29/11 12:50	10/01/11 09:10	10/07/11 13:48	8.08	7.00	10/14/11 16:32	7.11	40.00	*
FLC-5-MW03-092911	09/29/11 14:00	10/01/11 09:10	10/07/11 13:48	8.03	7.00	10/14/11 17:06	7.14	40.00	*
FLC-RB02-092911	09/29/11 14:35	10/01/11 09:10	10/07/11 13:48	8.01	7.00	10/14/11 17:39	7.16	40.00	*
FLC-5-MW01-092911	09/30/11 09:15	10/01/11 09:10	10/07/11 13:48	7.23	7.00	10/19/11 01:34	11.49	40.00	
FLC-5-MW02-092911	09/30/11 11:05	10/01/11 09:10	10/07/11 13:48	7.15	7.00	10/14/11 19:52	7.25	40.00	

ANALYSIS DATA SHEET

Blank

Laboratory:	Empirical Laboratories, LLC	SDG:	1110003
Client:	Tetra Tech NUS, Inc. (T010)	Project:	Navy Fuel Depot CTO JM46

Matrix:		Laboratory ID:	1J07001-BLK1	File ID:	010F1001.D
Sampled:		Prepared:		Analyzed:	10/14/11 13:45
Solids:		Preparation:	EXT_3510	Dilution:	

Batch:	1J07001	Sequence:	1J29109	Calibration:	1291002	Instrument:	GL-GCFID2

CAS NO.	COMPOUND	CONC. (mg/L)	DL	LOD	LOQ	Q
	Petroleum Range Organics		0.170	0.340	0.680	Q, U

SYSTEM MONITORING COMPOUND	ADDED (mg/L)	CONC (mg/L)	% REC	QC LIMITS	Q
2-Fluorobiphenyl	0.05000	0.04185	83.7	50 - 150	X
o-Terphenyl	0.05000	0.04938	98.8	82 - 142	

ANALYSIS DATA SHEET

LCS

Laboratory: Empirical Laboratories, LLC
SDG: 1110003
Client: Tetra Tech NUS, Inc. (T010)
Project: Navy Fuel Depot CTO JM46
Matrix:
Laboratory ID: 1J07001-BS1
File ID: 011F1101.D
Sampled:
Prepared:
Analyzed: 10/14/11 14:19
Solids:
Preparation: EXT_3510
Dilution:
Batch: 1J07001
Sequence: 1J29109
Calibration: 1291002
Instrument: GL-GCFID2

CAS NO.	COMPOUND	CONC. (mg/L)	DL	LOD	LOQ	Q
	Petroleum Range Organics	3.999	0.170	0.340	0.680	

SYSTEM MONITORING COMPOUND	ADDED (mg/L)	CONC (mg/L)	% REC	QC LIMITS	Q
2-Fluorobiphenyl	0.05000	0.06038	121	50 - 150	X
o-Terphenyl	0.05000	0.06870	137	82 - 142	

ANALYSIS DATA SHEET

Matrix Spike

Laboratory:	Empirical Laboratories, LLC		SDG:	1110003	
Client:	Tetra Tech NUS, Inc. (T010)		Project:	Navy Fuel Depot CTO JM46	
Matrix:		Laboratory ID:	1J07001-MS1	File ID:	019F1901.D
Sampled:		Prepared:		Analyzed:	10/19/11 02:07
Solids:		Preparation:	EXT_3510	Dilution:	

Batch: 1J07001 Sequence: 1J29310 Calibration: 1291002 Instrument: GL-GCFID2

CAS NO.	COMPOUND	CONC. (mg/L)	DL	LOD	LOQ	Q
	Petroleum Range Organics	26.15	0.315	0.630	1.26	Q, D

SYSTEM MONITORING COMPOUND	ADDED (mg/L)	CONC (mg/L)	% REC	QC LIMITS	Q
2-Fluorobiphenyl	0.04630	0.07217	156	50 - 150	X
o-Terphenyl	0.04630	0.05158	111	82 - 142	

ANALYSIS DATA SHEET

Matrix Spike Dup

Laboratory:	Empirical Laboratories, LLC			SDG:	1110003
Client:	Tetra Tech NUS, Inc. (T010)			Project:	Navy Fuel Depot CTO JM46
Matrix:		Laboratory ID:	1J07001-MSD1	File ID:	020F2001.D
Sampled:		Prepared:		Analyzed:	10/19/11 02:40
Solids:		Preparation:	EXT_3510	Dilution:	

Batch: 1J07001 Sequence: 1J29310 Calibration: 1291002 Instrument: GL-GCFID2

CAS NO.	COMPOUND	CONC. (mg/L)	DL	LOD	LOQ	Q
	Petroleum Range Organics	26.78	0.315	0.630	1.26	Q, D

SYSTEM MONITORING COMPOUND	ADDED (mg/L)	CONC (mg/L)	% REC	QC LIMITS	Q
2-Fluorobiphenyl	0.04630	0.07291	157	50 - 150	X
o-Terphenyl	0.04630	0.05155	111	82 - 142	

Data for FLPRO
Supporting Raw Data / Logs

Sequence Table (Front Injector):

Quantification Part:

Line	Location	SampleName	SampleAmount	ISTDAmt	Multiplier	Dilution
1	Vial 1	INST BLK				
2	Vial 2	SEQ-CAL6 11H0600				
3	Vial 3	SEQ-CAL5 11H0599				
4	Vial 4	SEQ-CAL4 11H0598				
5	Vial 5	SEQ-CAL3 11H0597				
6	Vial 6	SEQ-CAL2 11H0596				
7	Vial 7	SEQ-CAL1 11H0595				
8	Vial 8	SEQ-ICV1 11H0601				
9	Vial 9	SEQ-CCV1 11J0275				
10	Vial 10	1J07001-BLK1				
11	Vial 11	1J07001-BS1				
12	Vial 12	1110003-01RE1				
13	Vial 13	1110003-03RE1				
14	Vial 14	1110003-05RE1				
15	Vial 15	1110003-07RE1				
16	Vial 16	1110003-09RE1				
17	Vial 17	1110003-11RE1				
18	Vial 18	1110003-12RE1				
19	Vial 19	1J07001-MS1				
20	Vial 20	1J07001-MSD1				
21	Vial 21	1110003-14RE1				
22	Vial 22	SEQ-CCV2 11J0275				
23	Vial 23	1J11025-BLK1				
24	Vial 24	1J11025-BS1				
25	Vial 25	1J11025-BS2				
26	Vial 26	1J11025-BS3				
27	Vial 27	1J11025-BS4				
28	Vial 28	1J11025-BSD1				
29	Vial 29	1J11025-MRL1				
30	Vial 30	1J11025-MRL2				
31	Vial 31	1110005-02				
32	Vial 32	SEQ-CCV3 11J0275				

FLPRO

Cat
10/18/11

Sequence Table (Back Injector):

No entries - empty table!

Laboratory Name

Data file : \\ELABNSH05\TARGET\chem\gcfid2.i\101311.b\001F0102.D
Lab Smp Id: INST BLK
Inj Date : 13-OCT-2011 18:45
Operator : JH Inst ID: gcfid2.i
Smp Info : INST BLK
Misc Info :
Comment :
Method : \\ELABNSH05\TARGET\chem\gcfid2.i\101311.b\FLPROF.m
Meth Date : 18-Oct-2011 14:23 cthompson Quant Type: ESTD
Cal Date : 23-DEC-2008 17:56 Cal File: 004R0201.D
Als bottle: 1
Dil Factor: 1.00000
Integrator: Falcon Compound Sublist: PROSURR.sub
Target Version: 4.04
Processing Host: TARGET08_VM

Compounds	RT	EXP RT	DLT RT	RESPONSE	CONCENTRATIONS ON-COLUMN (mg/L)	FINAL (mg/L)

C_8: 4.187 - 0.05 = 4.137

C_{40}: 22.043 + 0.05 = 22.093

10/19/11

OTP: 11.327

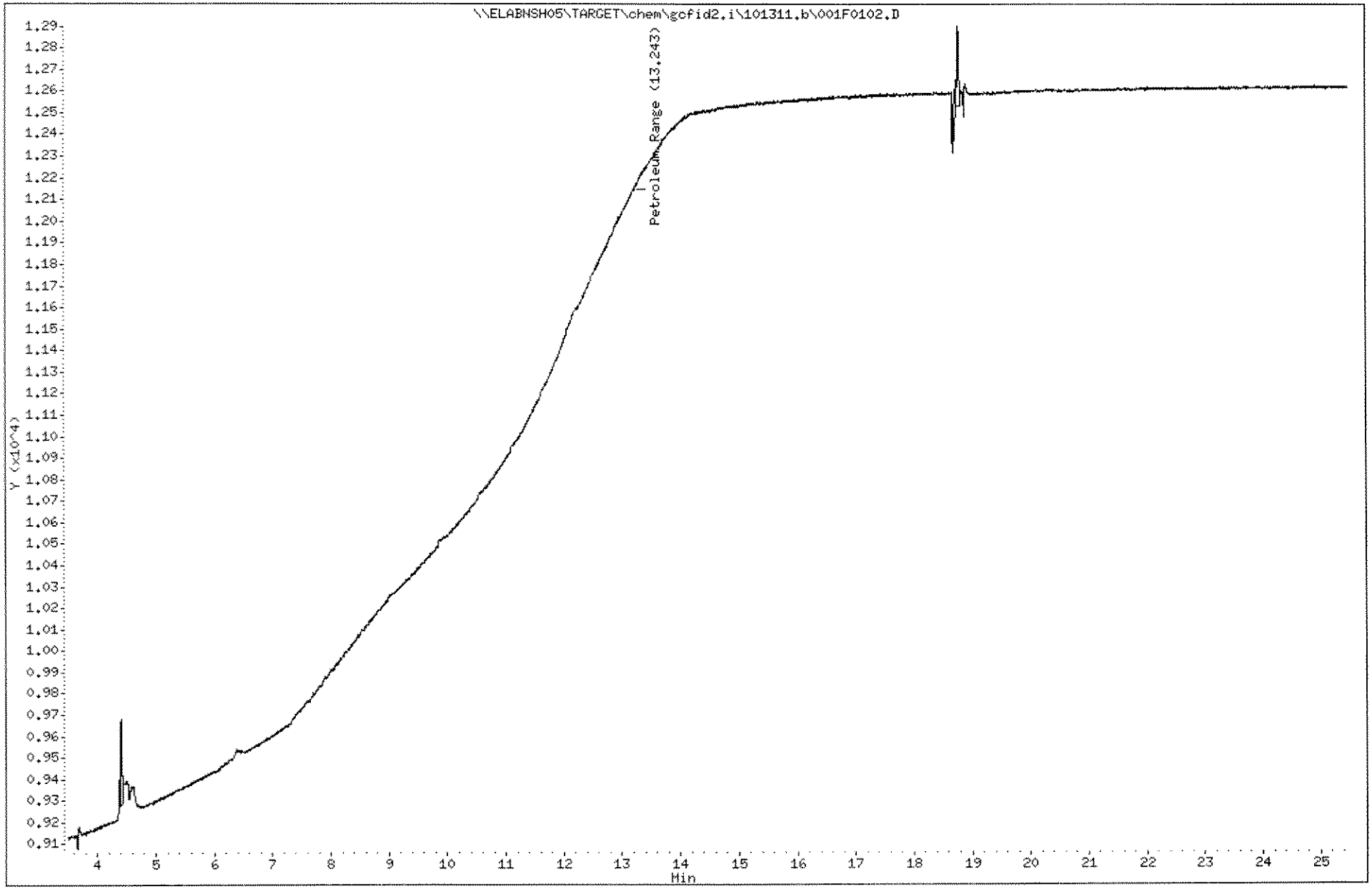
2FL: 9.170

Data File: \\ELABNSH05\TARGET\chem\gcfid2.i\101311.b\001F0102.D
Date : 13-OCT-2011 18:45
Client ID:
Sample Info: INST BLK

Column phase: ZB-5ms

Instrument: gcfid2.i

Operator: JH
Column diameter: 0.32



1037

1110003

Laboratory Name

Data file : \\ELABNSH05\TARGET\chem\gcfid2.i\101311.b\002F0201.D
Lab Smp Id: SEQ-CAL6
Inj Date : 13-OCT-2011 19:18
Operator : JH Inst ID: gcfid2.i
Smp Info : SEQ-CAL6
Misc Info :
Comment :
Method : \\ELABNSH05\TARGET\chem\gcfid2.i\101311.b\FLPROF.m
Meth Date : 18-Oct-2011 14:24 cthompson Quant Type: ESTD
Cal Date : 23-DEC-2008 17:56 Cal File: 004R0201.D
Als bottle: 2 Calibration Sample, Level: 6
Dil Factor: 1.00000
Integrator: Falcon Compound Sublist: PROSURR.sub
Target Version: 4.04
Processing Host: TARGET08_VM

Compounds	RT	EXP RT	DLT RT	RESPONSE		AMOUNTS CAL-AMT (mg/L)	AMOUNTS ON-COL (mg/L)
S 1 Petroleum Range	4.136-22.093			53332		85.0000	74.58(M)
$ 2 2-Fluorobiphenyl	9.353	9.170	0.183	334	*	0.50000	5.809(M)
$ 3 Ortho-Terphenyl	11.380	11.327	0.053	427		0.50000	0.3617(M)

QC Flag Legend

M - Compound response manually integrated.

10/19/11

Cat 10/18/11

Data File: \\ELABNSH05\TARGET\chem\gcfid2.i\101311.b\002F0201.D

Page 1

Date : 13-OCT-2011 19:18

Client ID:

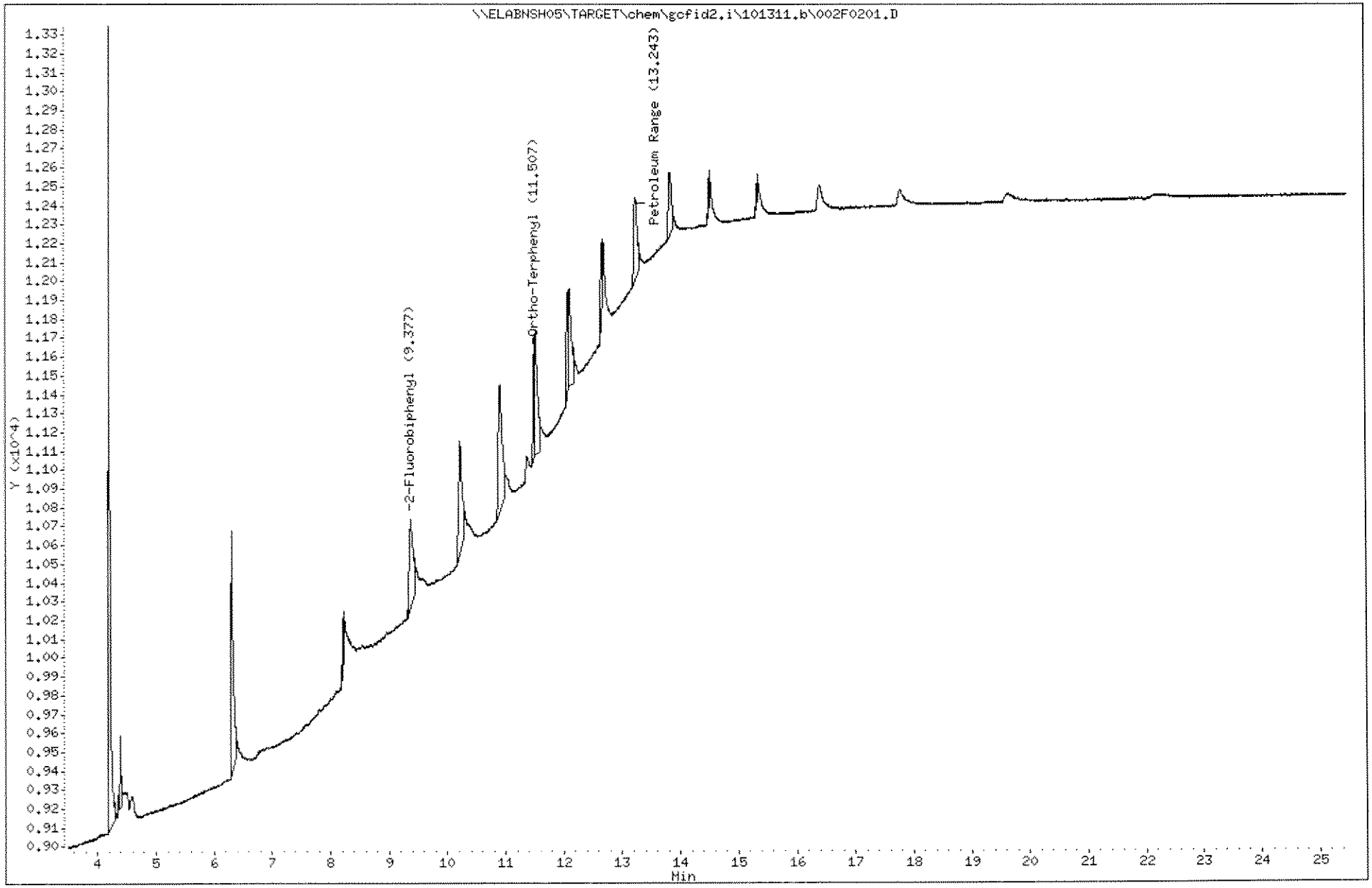
Instrument: gcfid2.i

Sample Info: SEQ-CAL6

Operator: JH

Column phase: ZB-5ms

Column diameter: 0.32



1039

1110003

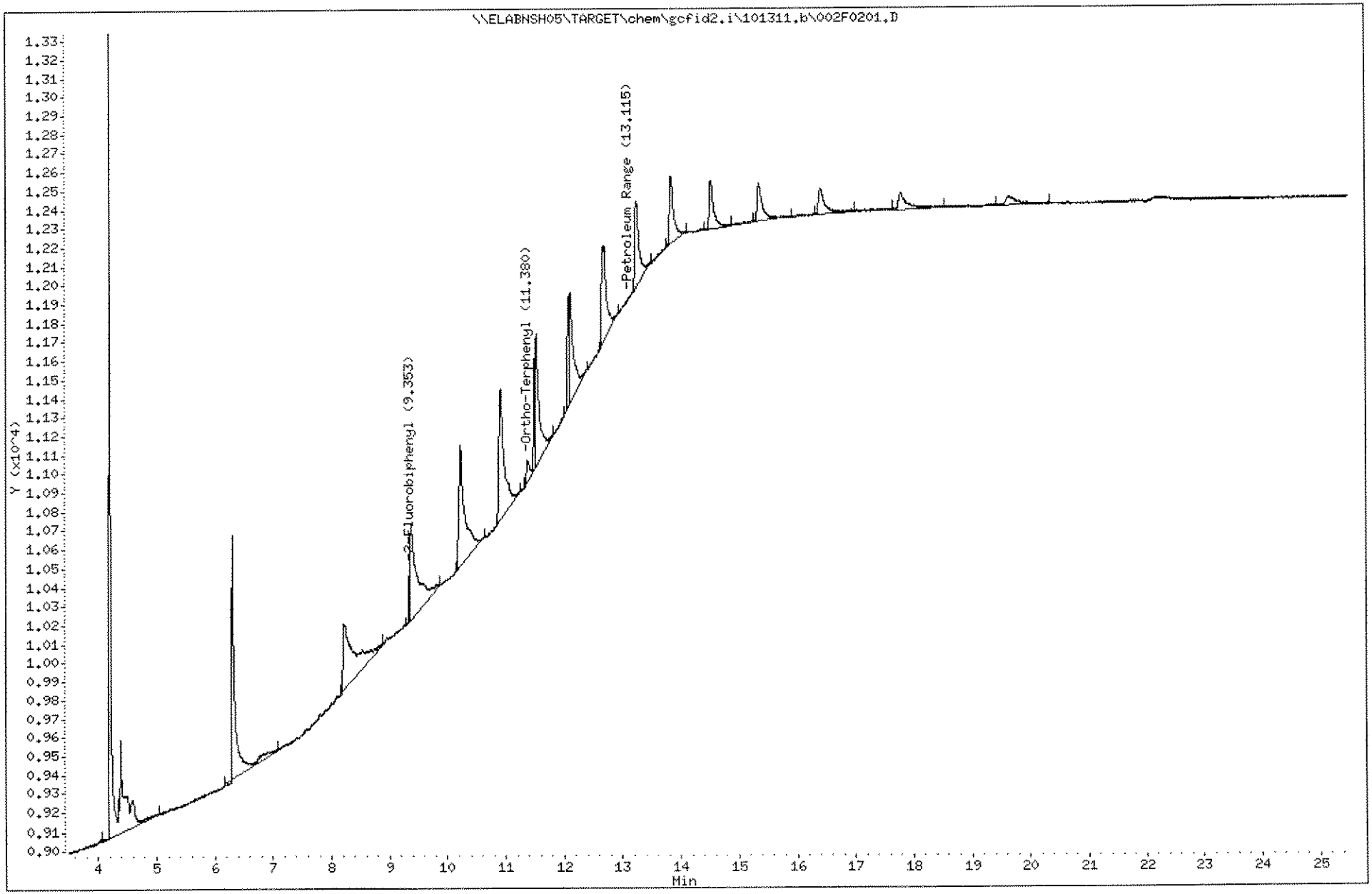
Data File: \\ELABNSH05\TARGET\chem\gcfid2.i\101311.b\002F0201.D
Date : 13-OCT-2011 19:18
Client ID:
Sample Info: SEQ-CAL6

Column phase: ZB-5ms

Instrument: gcfid2.i

Operator: JH
Column diameter: 0.32

10/19/11



1040

1110003

Laboratory Name

Data file : \\ELABNSH05\TARGET\chem\gcfid2.i\101311.b\003F0301.D
Lab Smp Id: SEQ-CAL5
Inj Date : 14-OCT-2011 09:51
Operator : JH Inst ID: gcfid2.i
Smp Info : SEQ-CAL5
Misc Info :
Comment :
Method : \\ELABNSH05\TARGET\chem\gcfid2.i\101311.b\FLPROF.m
Meth Date : 18-Oct-2011 14:24 cthompson Quant Type: ESTD
Cal Date : 23-DEC-2008 17:56 Cal File: 004R0201.D
Als bottle: 3 Calibration Sample, Level: 5
Dil Factor: 1.00000
Integrator: Falcon Compound Sublist: PROSURR.sub
Target Version: 4.04
Processing Host: TARGET08_VM

Compounds	RT	EXP RT	DLT RT	RESPONSE		AMOUNTS CAL-AMT (mg/L)	AMOUNTS ON-COL (mg/L)
S 1 Petroleum Range	4.136-22.093			585326		850.000	818.5(M)
$ 2 2-Fluorobiphenyl	9.236	9.170	0.066	702	*	5.00000	6.232(M)
$ 3 Ortho-Terphenyl	11.423	11.327	0.096	5727		5.00000	4.851

QC Flag Legend

M - Compound response manually integrated.

10/19/11

10/19/11

Data File: \\ELABNSH05\TARGET\chem\gcfid2.i\101311.b\003F0301.D

Date : 14-OCT-2011 09:51

Client ID:

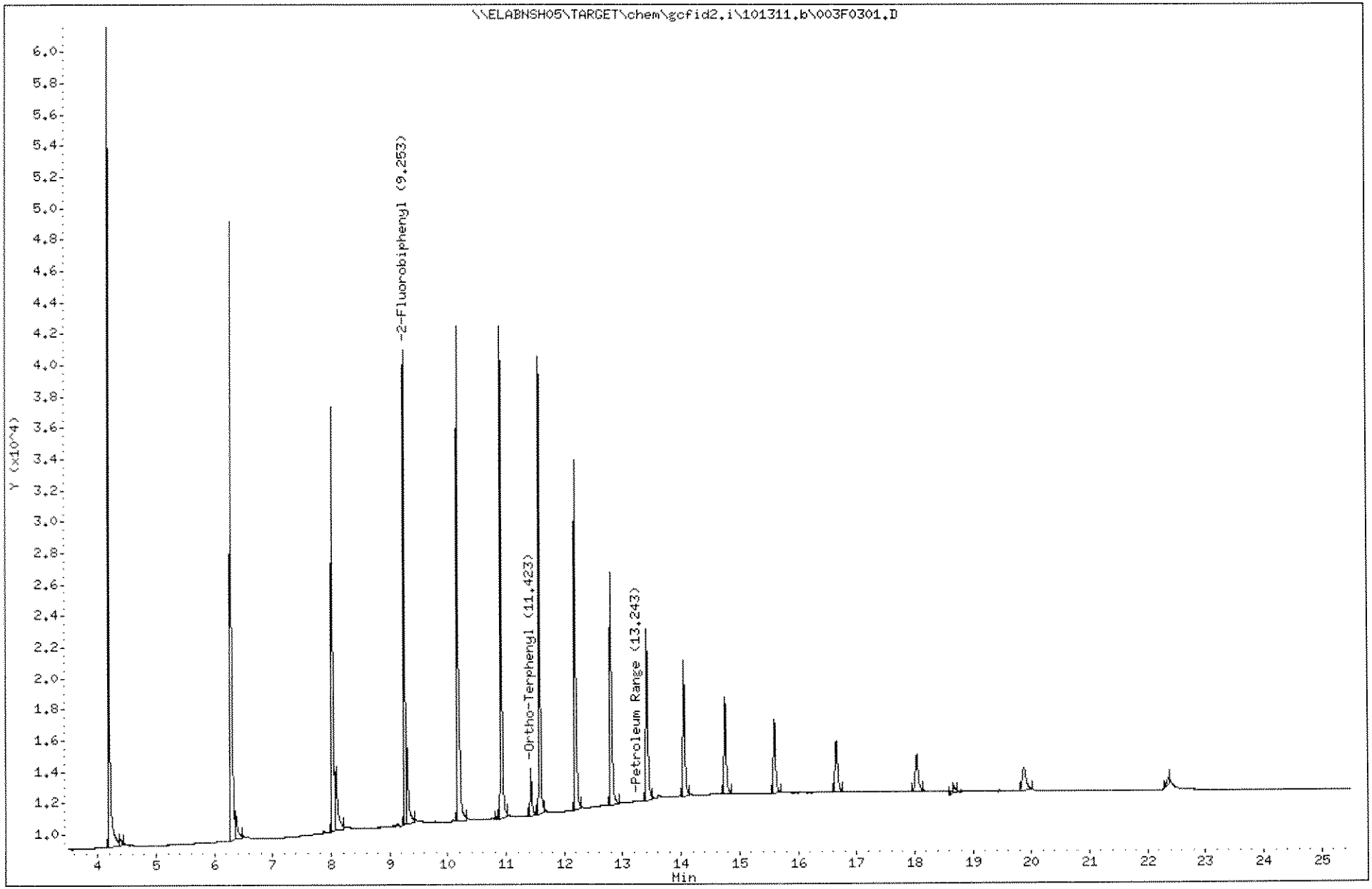
Instrument: gcfid2.i

Sample Info: SEQ-CAL5

Operator: JH

Column phase: ZB-5ms

Column diameter: 0.32



1042

1110003

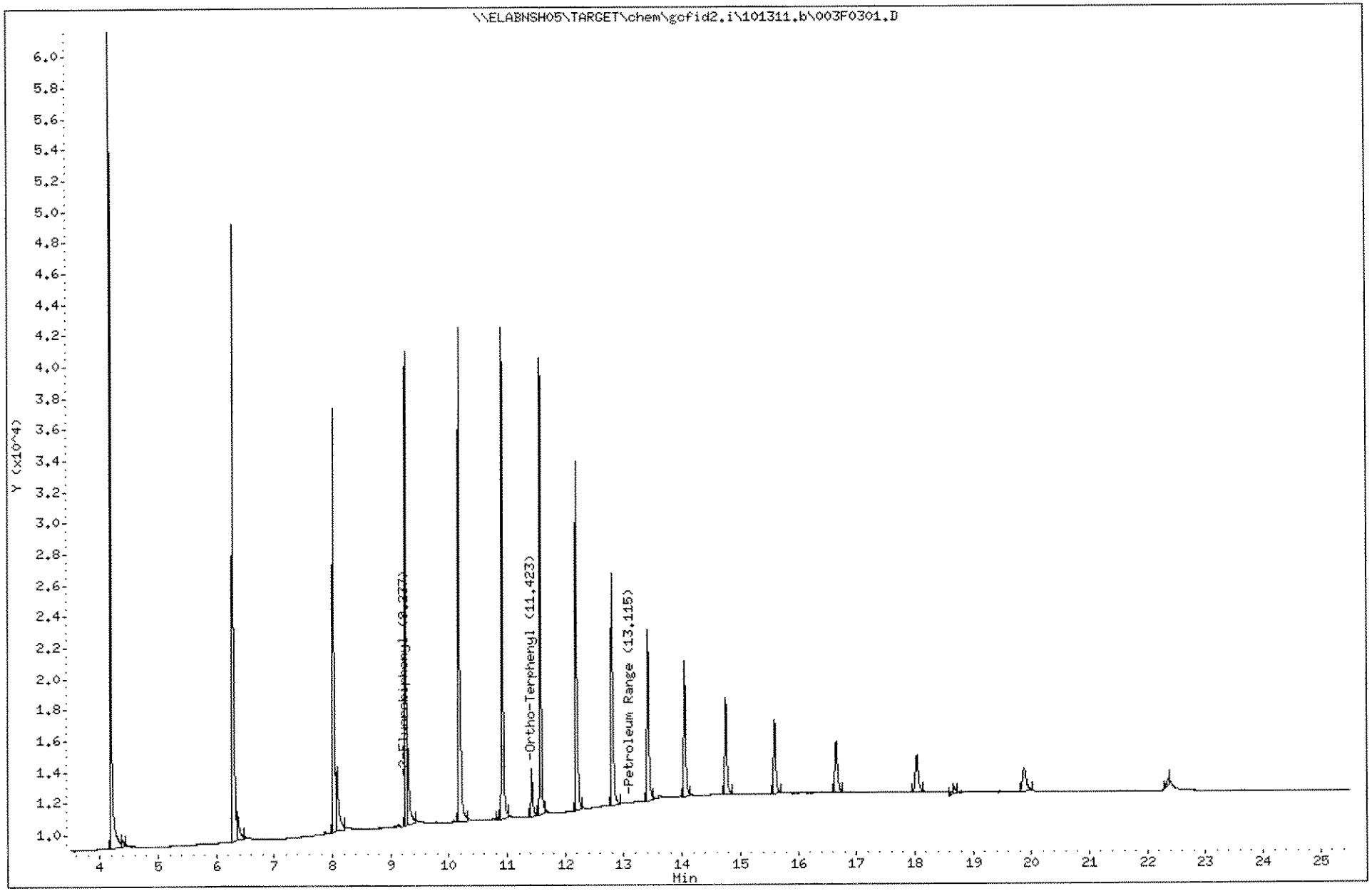
Data File: \\ELABNSH05\TARGET\chem\gcfid2.i\101311.b\003F0301.D
Date : 14-OCT-2011 09:51
Client ID:
Sample Info: SEQ-CAL5

Column phase: ZB-5ms

Instrument: gcfid2.i

Operator: JH
Column diameter: 0.32

10/19/11



1043

1110003

Laboratory Name

Data file : \\ELABNSH05\TARGET\chem\gcfid2.i\101311.b\004F0401.D
Lab Smp Id: SEQ-CAL4
Inj Date : 14-OCT-2011 10:25
Operator : JH Inst ID: gcfid2.i
Smp Info : SEQ-CAL4
Misc Info :
Comment :
Method : \\ELABNSH05\TARGET\chem\gcfid2.i\101311.b\FLPROF.m
Meth Date : 18-Oct-2011 14:24 cthompson Quant Type: ESTD
Cal Date : 23-DEC-2008 17:56 Cal File: 004R0201.D
Als bottle: 4 Calibration Sample, Level: 4
Dil Factor: 1.00000
Integrator: Falcon Compound Sublist: PROSURR.sub
Target Version: 4.04
Processing Host: TARGET08_VM

Compounds	RT	EXP RT	DLT RT	RESPONSE	AMOUNTS CAL-AMT (mg/L)	AMOUNTS ON-COL (mg/L)
S 1 Petroleum Range	4.136-22.093			*1969830	2550.00	2754
$ 2 2-Fluorobiphenyl	9.183	9.170	0.013	7024	15.0000	13.28
$ 3 Ortho-Terphenyl	11.330	11.327	0.003	19184 *	15.0000	16.25

10/19/11

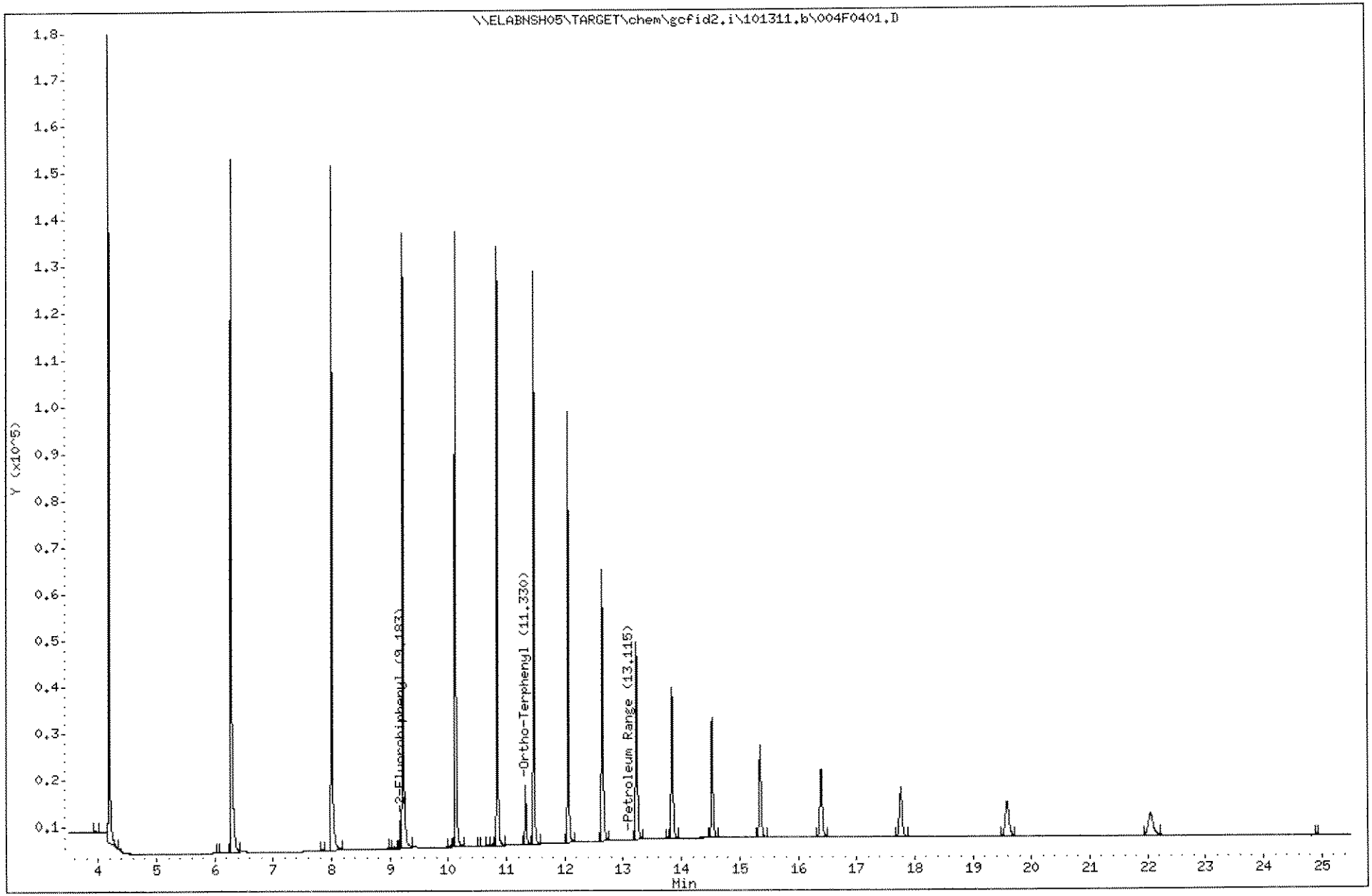
10/18/11

Data File: \\ELABNSH05\TARGET\chem\gcfid2.i\101311.b\004F0401.D
Date : 14-OCT-2011 10:25
Client ID:
Sample Info: SEQ-CAL4

Column phase: ZB-5ms

Instrument: gcfid2.i

Operator: JH
Column diameter: 0.32



1045

1110003

Laboratory Name

Data file : \\ELABNSH05\TARGET\chem\gcfid2.i\101311.b\005F0501.D
Lab Smp Id: SEQ-CAL3
Inj Date : 14-OCT-2011 10:58
Operator : JH Inst ID: gcfid2.i
Smp Info : SEQ-CAL3
Misc Info :
Comment :
Method : \\ELABNSH05\TARGET\chem\gcfid2.i\101311.b\FLPROF.m
Meth Date : 18-Oct-2011 14:25 cthompson Quant Type: ESTD
Cal Date : 23-DEC-2008 17:56 Cal File: 004R0201.D
Als bottle: 5 Calibration Sample, Level: 3
Dil Factor: 1.00000
Integrator: Falcon Compound Sublist: PROSURR.sub
Target Version: 4.04
Processing Host: TARGET08_VM

Compounds	RT	EXP RT	DLT RT	RESPONSE		AMOUNTS CAL-AMT (mg/L)	AMOUNTS ON-COL (mg/L)
S 1 Petroleum Range	4.136-22.093			3058234		4250.00	4276
$ 2 2-Fluorobiphenyl	9.170	9.170	0.000	18304		25.0000	24.82
$ 3 Ortho-Terphenyl	11.326	11.327	-0.001	30600	*	25.0000	25.92

10/19/11

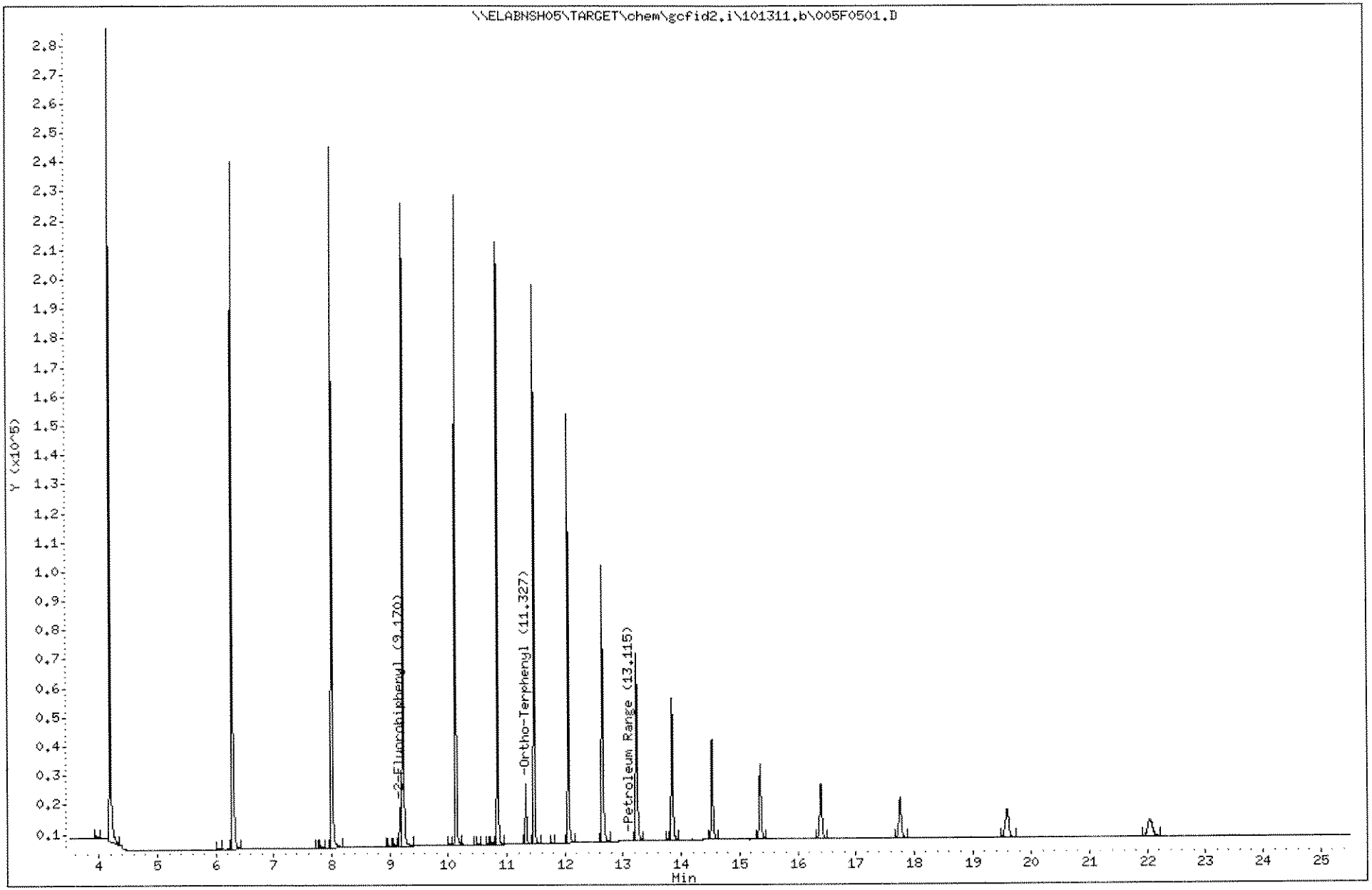
10/18/11

Data File: \\ELABNSH05\TARGET\chem\gcfid2.i\101311.b\005F0501.D
Date : 14-OCT-2011 10:58
Client ID:
Sample Info: SEQ-CAL3

Column phase: ZB-5ms

Instrument: gcfid2.i

Operator: JH
Column diameter: 0.32



1047

1110003

Laboratory Name

Data file : \\ELABNSH05\TARGET\chem\gcfid2.i\101311.b\006F0601.D
Lab Smp Id: SEQ-CAL2
Inj Date : 14-OCT-2011 11:32
Operator : JH Inst ID: gcfid2.i
Smp Info : SEQ-CAL2
Misc Info :
Comment :
Method : \\ELABNSH05\TARGET\chem\gcfid2.i\101311.b\FLPROF.m
Meth Date : 18-Oct-2011 14:25 cthompson Quant Type: ESTD
Cal Date : 23-DEC-2008 17:56 Cal File: 004R0201.D
Als bottle: 6 Calibration Sample, Level: 2
Dil Factor: 1.00000
Integrator: Falcon Compound Sublist: PROSURR.sub
Target Version: 4.04
Processing Host: TARGET08_VM

Compounds	RT	EXP RT	DLT RT	RESPONSE		AMOUNTS CAL-AMT (mg/L)	AMOUNTS ON-COL (mg/L)
S 1 Petroleum Range	4.136-22.093			4138211		5950.00	5787
$ 2 2-Fluorobiphenyl	9.163	9.170	-0.007	30744	*	35.0000	36.01
$ 3 Ortho-Terphenyl	11.333	11.327	0.006	44947		35.0000	38.07

10/19/11

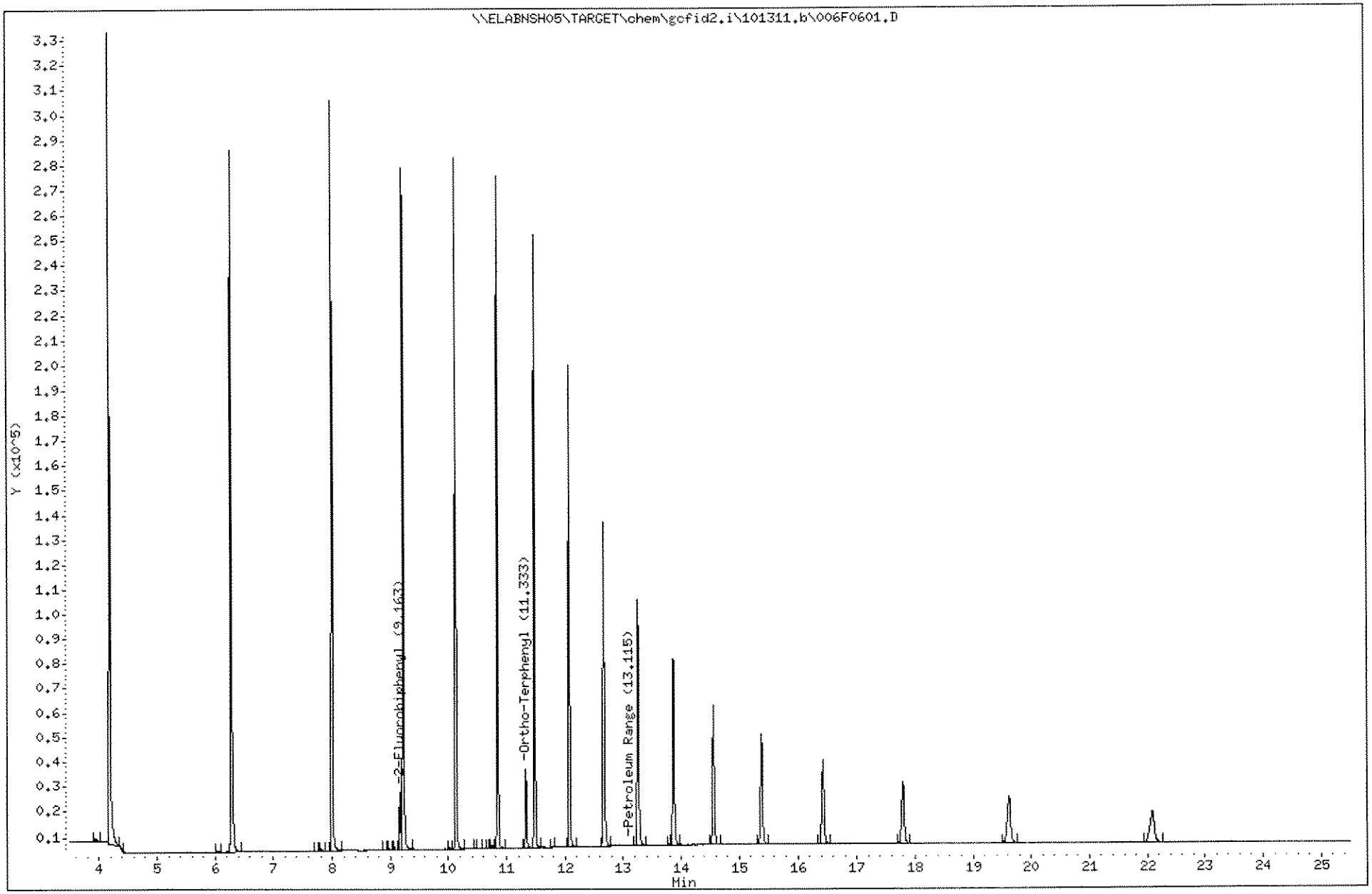
10/18/11

Data File: \\ELABNSH05\TARGET\chem\gcfid2.i\101311.b\006F0601.D
Date : 14-OCT-2011 11:32
Client ID:
Sample Info: SEQ-CAL2

Column phase: ZB-5ms

Instrument: gcfid2.i

Operator: JH
Column diameter: 0.32



1049

1110003

Laboratory Name

Data file : \\ELABNSH05\TARGET\chem\gcfid2.i\101311.b\007F0701.D
Lab Smp Id: SEQ-CAL1
Inj Date : 14-OCT-2011 12:05
Operator : JH Inst ID: gcfid2.i
Smp Info : SEQ-CAL1
Misc Info :
Comment :
Method : \\ELABNSH05\TARGET\chem\gcfid2.i\101311.b\FLPROF.m
Meth Date : 18-Oct-2011 14:25 cthompson Quant Type: ESTD
Cal Date : 23-DEC-2008 17:56 Cal File: 004R0201.D
Als bottle: 7 Calibration Sample, Level: 1
Dil Factor: 1.00000
Integrator: Falcon Compound Sublist: PROSURR.sub
Target Version: 4.04
Processing Host: TARGET08_VM

Compounds	RT	EXP RT	DLT RT	RESPONSE	AMOUNTS CAL-AMT (mg/L)	AMOUNTS ON-COL (mg/L)
S 1 Petroleum Range	4.136-22.093			6690810	8500.00	9356
$ 2 2-Fluorobiphenyl	9.160	9.170	-0.010	49223	50.0000	49.67
$ 3 Ortho-Terphenyl	11.326	11.327	-0.001	64873 *	50.0000	54.95

10/19/11

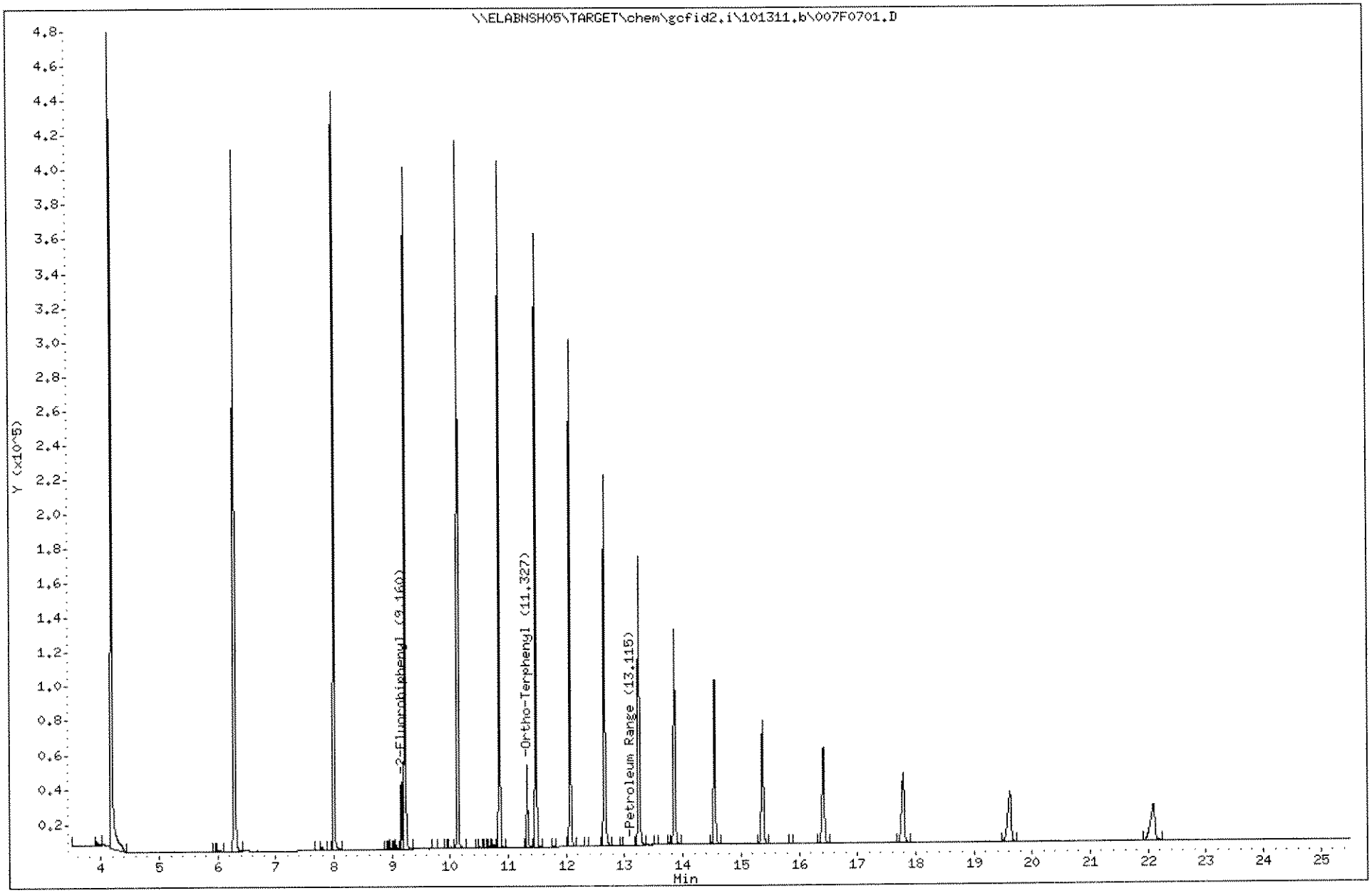
Cat 10/18/11

Data File: \\ELABNSH05\TARGET\chem\gcfid2.i\101311.b\007F0701.D
Date : 14-OCT-2011 12:05
Client ID:
Sample Info: SEQ-CAL1

Column phase: ZB-5ms

Instrument: gcfid2.i

Operator: JH
Column diameter: 0.32



1051

1110003

Laboratory Name

Data file : \\ELABNSH05\TARGET\chem\gcfid2.i\101311.b\008F0801.D
Lab Smp Id: SEQ-ICV1
Inj Date : 14-OCT-2011 12:39
Operator : JH Inst ID: gcfid2.i
Smp Info : SEQ-ICV1
Misc Info :
Comment :
Method : \\ELABNSH05\TARGET\chem\gcfid2.i\101311.b\FLPROF.m
Meth Date : 18-Oct-2011 14:25 cthompson Quant Type: ESTD
Cal Date : 23-DEC-2008 17:56 Cal File: 004R0201.D
Als bottle: 8 Continuing Calibration Sample
Dil Factor: 1.00000
Integrator: Falcon Compound Sublist: range.sub
Target Version: 4.04
Processing Host: TARGET08_VM

Compounds	RT	EXP RT	DLT RT	RESPONSE	AMOUNTS CAL-AMT (mg/L)	AMOUNTS ON-COL (mg/L)
S 1 Petroleum Range	4.136-22.093			3346353	4250.00	4679

Cat 10/18/11

10/19/11

Data File: \\ELABNSH05\TARGET\chem\gcfid2.i\101311.b\008F0801.D

Date : 14-OCT-2011 12:39

Client ID:

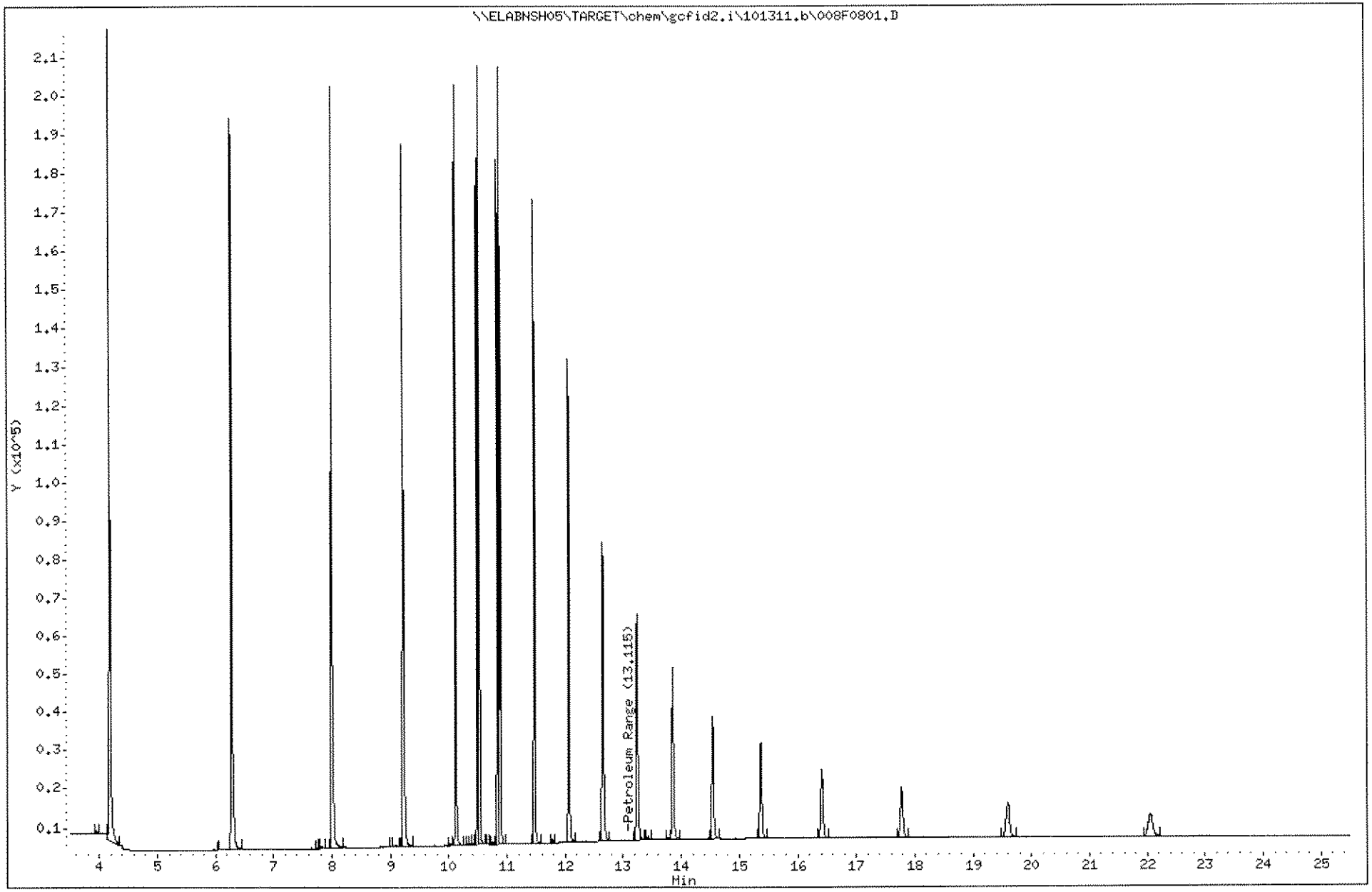
Instrument: gcfid2.i

Sample Info: SEQ-ICV1

Operator: JH

Column phase: ZB-5ms

Column diameter: 0.32



1053

1110003

Sequence Table (Front Injector):

Quantification Part:

Line	Location	SampleName	SampleAmount	ISTDAmt	Multiplier	Dilution
1	Vial 1	INST BLK				
2	Vial 2	SEQ-CAL6 11H0600				
3	Vial 3	SEQ-CAL5 11H0599				
4	Vial 4	SEQ-CAL4 11H0598				
5	Vial 5	SEQ-CAL3 11H0597				
6	Vial 6	SEQ-CAL2 11H0596				
7	Vial 7	SEQ-CAL1 11H0595				
8	Vial 8	SEQ-ICV1 11H0601				
9	Vial 9	SEQ-CCV1 11J0275				
10	Vial 10	1J07001-BLK1				
11	Vial 11	1J07001-BS1				
12	Vial 12	1110003-01RE1				
13	Vial 13	1110003-03RE1				
14	Vial 14	1110003-05RE1				
15	Vial 15	1110003-07RE1				
16	Vial 16	1110003-09RE1				
17	Vial 17	1110003-11RE1				
18	Vial 18	1110003-12RE1				
19	Vial 19	1J07001-MS1				
20	Vial 20	1J07001-MSD1				
21	Vial 21	1110003-14RE1				
22	Vial 22	SEQ-CCV2 11J0275				
23	Vial 23	1J11025-BLK1				
24	Vial 24	1J11025-BS1				
25	Vial 25	1J11025-BS2				
26	Vial 26	1J11025-BS3				
27	Vial 27	1J11025-BS4				
28	Vial 28	1J11025-BSD1				
29	Vial 29	1J11025-MRL1				
30	Vial 30	1J11025-MRL2				
31	Vial 31	1110005-02				
32	Vial 32	SEQ-CCV3 11J0275				

rerun @ 2x

FLPRO

Cat 10/18/11

Sequence Table (Back Injector):

No entries - empty table!

Laboratory Name

Data file : \\ELABNSH05\TARGET\chem\gcfid2.i\101311.b\001F0102.D
Lab Smp Id: INST BLK
Inj Date : 13-OCT-2011 18:45
Operator : JH Inst ID: gcfid2.i
Smp Info : INST BLK
Misc Info :
Comment :
Method : \\ELABNSH05\TARGET\chem\gcfid2.i\101311.b\FLPROF.m
Meth Date : 18-Oct-2011 14:26 cthompson Quant Type: ESTD
Cal Date : 23-DEC-2008 17:56 Cal File: 004R0201.D
Als bottle: 1
Dil Factor: 1.00000
Integrator: Falcon Compound Sublist: PROSURR.sub
Target Version: 4.04
Processing Host: TARGET08_VM

Compounds	RT	EXP RT	DLT RT	RESPONSE	CONCENTRATIONS ON-COLUMN (mg/L)	CONCENTRATIONS FINAL (mg/L)

C_8: 4.187 - 0.05 = $\boxed{4.137}$

C_{40}: 22.043 + 0.05 = $\boxed{22.093}$

2FL: $\boxed{9.170}$

OTP: $\boxed{11.327}$

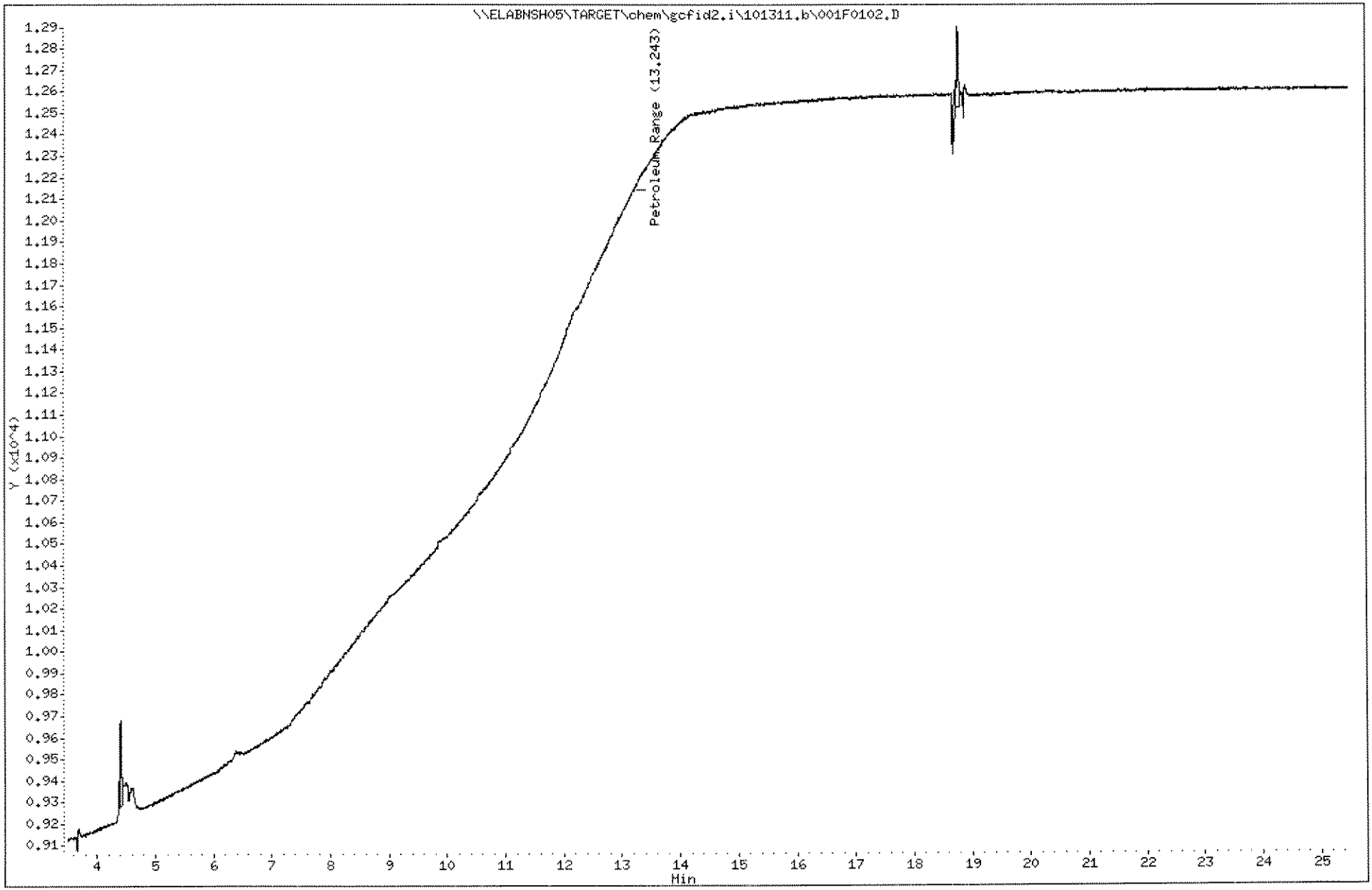
10/19/11

Data File: \\ELABNSH05\TARGET\chem\gcfid2.i\101311.b\001F0102.D
Date : 13-OCT-2011 18:45
Client ID:
Sample Info: INST BLK

Column phase: ZB-5ms

Instrument: gcfid2.i

Operator: JH
Column diameter: 0.32



1056

1110003

Laboratory Name

Data file : \\ELABNSH05\TARGET\chem\gcfid2.i\101311.b\009F0901.D
Lab Smp Id: SEQ-CCV1
Inj Date : 14-OCT-2011 13:12
Operator : JH Inst ID: gcfid2.i
Smp Info : SEQ-CCV1
Misc Info :
Comment :
Method : \\ELABNSH05\TARGET\chem\gcfid2.i\101311.b\FLPROF.m
Meth Date : 18-Oct-2011 14:25 cthompson Quant Type: ESTD
Cal Date : 23-DEC-2008 17:56 Cal File: 004R0201.D
Als bottle: 9 Continuing Calibration Sample
Dil Factor: 1.00000
Integrator: Falcon Compound Sublist: PROSURR.sub
Target Version: 4.04
Processing Host: TARGET08_VM

Compounds	RT	EXP RT	DLT RT	RESPONSE	AMOUNTS CAL-AMT (mg/L)	AMOUNTS ON-COL (mg/L)
S 1 Petroleum Range	4.136-22.093			270944	4250.00	3789
$ 2 2-Fluorobiphenyl	9.166	9.170	-0.004	19627	25.0000	26.08 *
$ 3 Ortho-Terphenyl	11.333	11.327	0.006	32507	25.0000	27.53

Cat 10/18/11

10/19/11

Data File: \\ELABNSH05\TARGET\chem\gcfid2.i\101311.b\009F0901.D

Date : 14-OCT-2011 13:12

Client ID:

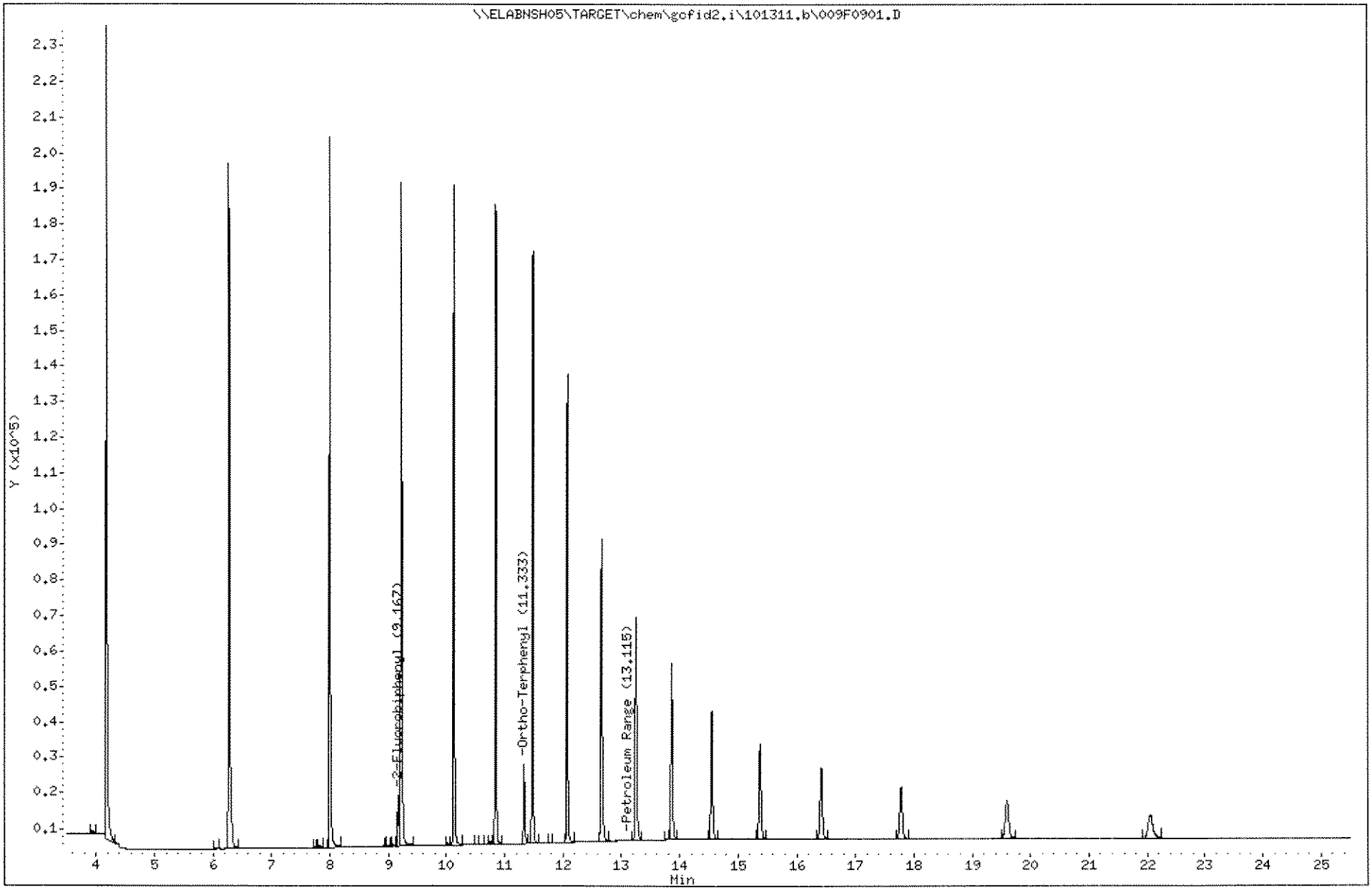
Instrument: gcfid2.i

Sample Info: SEQ-CCV1

Operator: JH

Column phase: ZB-5ms

Column diameter: 0.32



1058

1110003

Laboratory Name

Data file : \\ELABNSH05\TARGET\chem\gcfid2.i\101311.b\010F1001.D
Lab Smp Id: 1J07001-BLK1
Inj Date : 14-OCT-2011 13:45
Operator : JH Inst ID: gcfid2.i
Smp Info : 1J07001-BLK1
Misc Info :
Comment :
Method : \\ELABNSH05\TARGET\chem\gcfid2.i\101311.b\FLPROF.m
Meth Date : 18-Oct-2011 14:25 cthompson Quant Type: ESTD
Cal Date : 23-DEC-2008 17:56 Cal File: 004R0201.D
Als bottle: 10
Dil Factor: 1.00000
Integrator: Falcon Compound Sublist: PROSURR.sub
Target Version: 4.04
Processing Host: TARGET08_VM

Compounds	RT	EXP RT	DLT RT	RESPONSE	CONCENTRATIONS ON-COLUMN (mg/L)	CONCENTRATIONS FINAL (mg/L)
$ 2 2-Fluorobiphenyl	9.200	9.170	0.030	14352	20.9236	20.92(RM)
$ 3 Ortho-Terphenyl	11.336	11.327	0.009	29150	24.6895	24.69(R)

QC Flag Legend

R - Spike/Surrogate failed recovery limits.
M - Compound response manually integrated.

10/19/11

Cat 10/18/11

Data File: \\ELABNSH05\TARGET\chem\gcfid2.i\101311.b\010F1001.D

Date : 14-OCT-2011 13:45

Client ID:

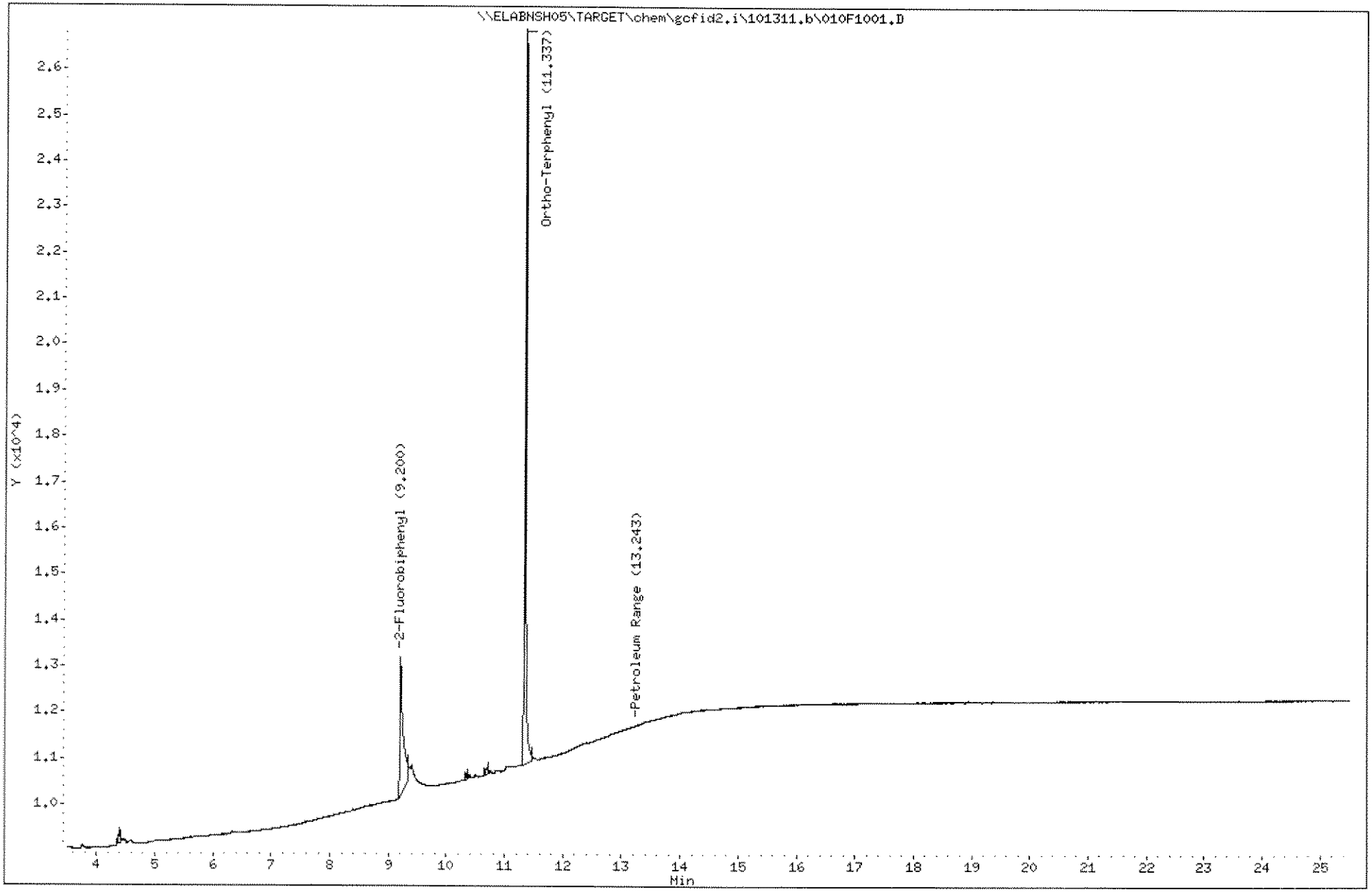
Sample Info: 1J07001-BLK1

Column phase: ZB-5ms

Instrument: gcfid2.i

Operator: JH

Column diameter: 0.32



1060

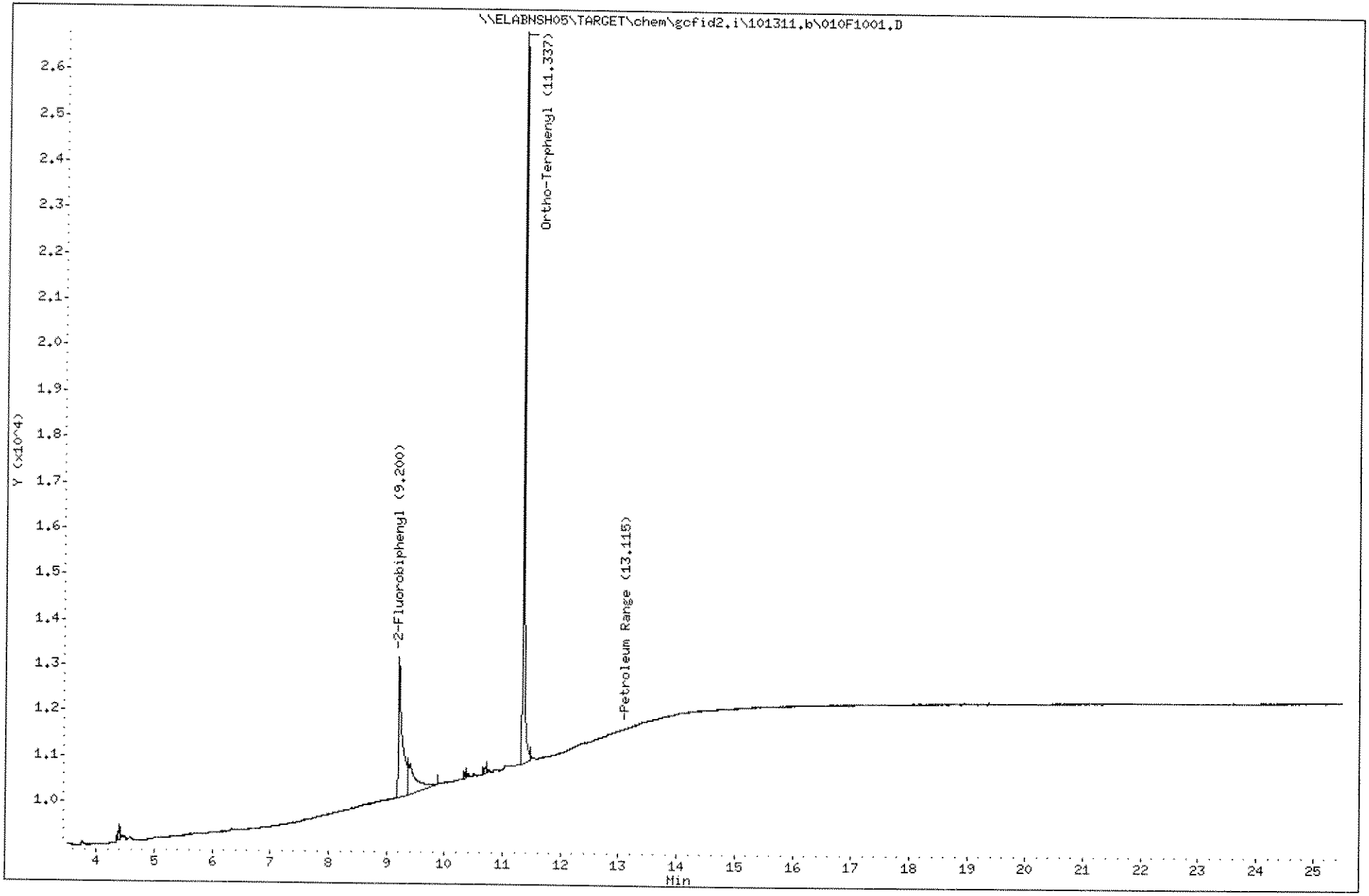
1110003

Data File: \\ELABNSH05\TARGET\chem\gcfid2.i\101311.b\010F1001.D
Date : 14-OCT-2011 13:45
Client ID:
Sample Info: 1J07001-BLK1

Column phase: ZB-5ms

Instrument: gcfid2.i

Operator: JH
Column diameter: 0.32



1061

1110003

Laboratory Name

Data file : \\ELABNSH05\TARGET\chem\gcfid2.i\101311.b\011F1101.D
Lab Smp Id: 1J07001-BS1
Inj Date : 14-OCT-2011 14:19
Operator : JH Inst ID: gcfid2.i
Smp Info : 1J07001-BS1
Misc Info :
Comment :
Method : \\ELABNSH05\TARGET\chem\gcfid2.i\101311.b\FLPROF.m
Meth Date : 18-Oct-2011 14:25 cthompson Quant Type: ESTD
Cal Date : 23-DEC-2008 17:56 Cal File: 004R0201.D
Als bottle: 11
Dil Factor: 1.00000
Integrator: Falcon Compound Sublist: PROSURR.sub
Target Version: 4.04
Processing Host: TARGET08_VM

Compounds	RT	EXP RT	DLT RT	RESPONSE	CONCENTRATIONS ON-COLUMN (mg/L)	FINAL (mg/L)
S 1 Petroleum Range	4.136-22.093			1429729	1999.26	1999
$ 2 2-Fluorobiphenyl	9.166	9.170	-0.004	24054	30.1892	30.19(R)
$ 3 Ortho-Terphenyl	11.320	11.327	-0.007	40554	34.3484	34.35(R)

QC Flag Legend

R - Spike/Surrogate failed recovery limits.

Cat 10/18/11

10/19/11

$\frac{1429729}{715} = 199.62$

Data File: \\ELABNSH05\TARGET\chem\gcfid2.i\101311.b\011F1101.D

Date : 14-OCT-2011 14:19

Client ID:

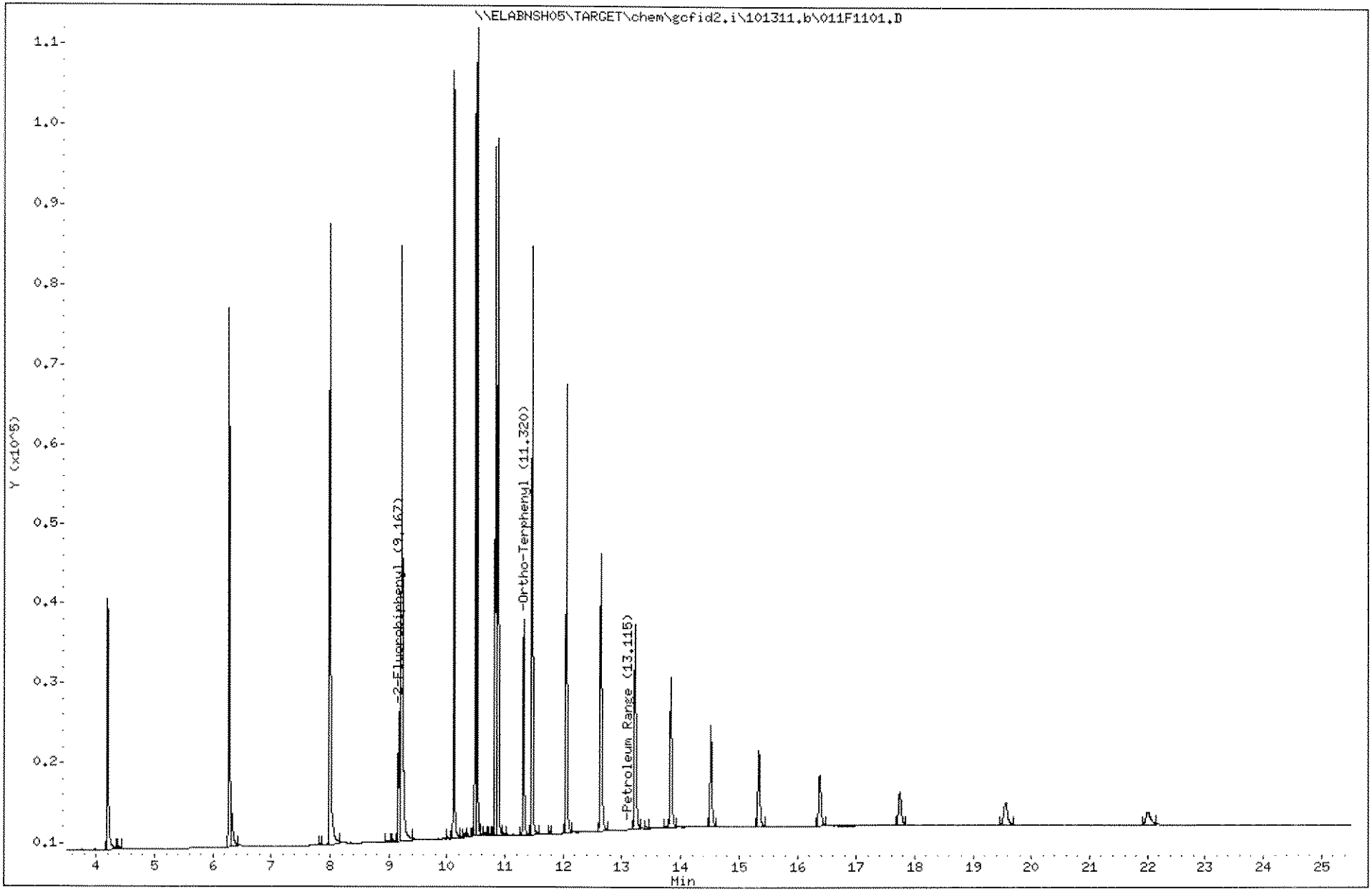
Instrument: gcfid2.i

Sample Info: 1J07001-BS1

Operator: JH

Column phase: ZB-5ms

Column diameter: 0.32



1063

1110003

Laboratory Name

Data file : \\ELABNSH05\TARGET\chem\gcfid2.i\101311.b\012F1201.D
Lab Smp Id: 1110003-01RE1
Inj Date : 14-OCT-2011 14:52
Operator : JH Inst ID: gcfid2.i
Smp Info : 1110003-01RE1
Misc Info :
Comment :
Method : \\ELABNSH05\TARGET\chem\gcfid2.i\101311.b\FLPROF.m
Meth Date : 18-Oct-2011 14:25 cthompson Quant Type: ESTD
Cal Date : 23-DEC-2008 17:56 Cal File: 004R0201.D
Als bottle: 12
Dil Factor: 1.00000
Integrator: Falcon Compound Sublist: PROSURR.sub
Target Version: 4.04
Processing Host: TARGET08_VM

Compounds	RT	EXP RT	DLT RT	RESPONSE	CONCENTRATIONS ON-COLUMN (mg/L)	CONCENTRATIONS FINAL (mg/L)
$ 2 2-Fluorobiphenyl	9.186	9.170	0.016	14957	21.5300	21.53(RM)
$ 3 Ortho-Terphenyl	11.330	11.327	0.003	30280	25.6466	25.65(RM)

QC Flag Legend

R - Spike/Surrogate failed recovery limits.
M - Compound response manually integrated.

10/19/11

Cat 10/18/11

Data File: \\ELABNSH05\TARGET\chem\gcfid2.i\101311.b\012F1201.D

Date : 14-OCT-2011 14:52

Client ID:

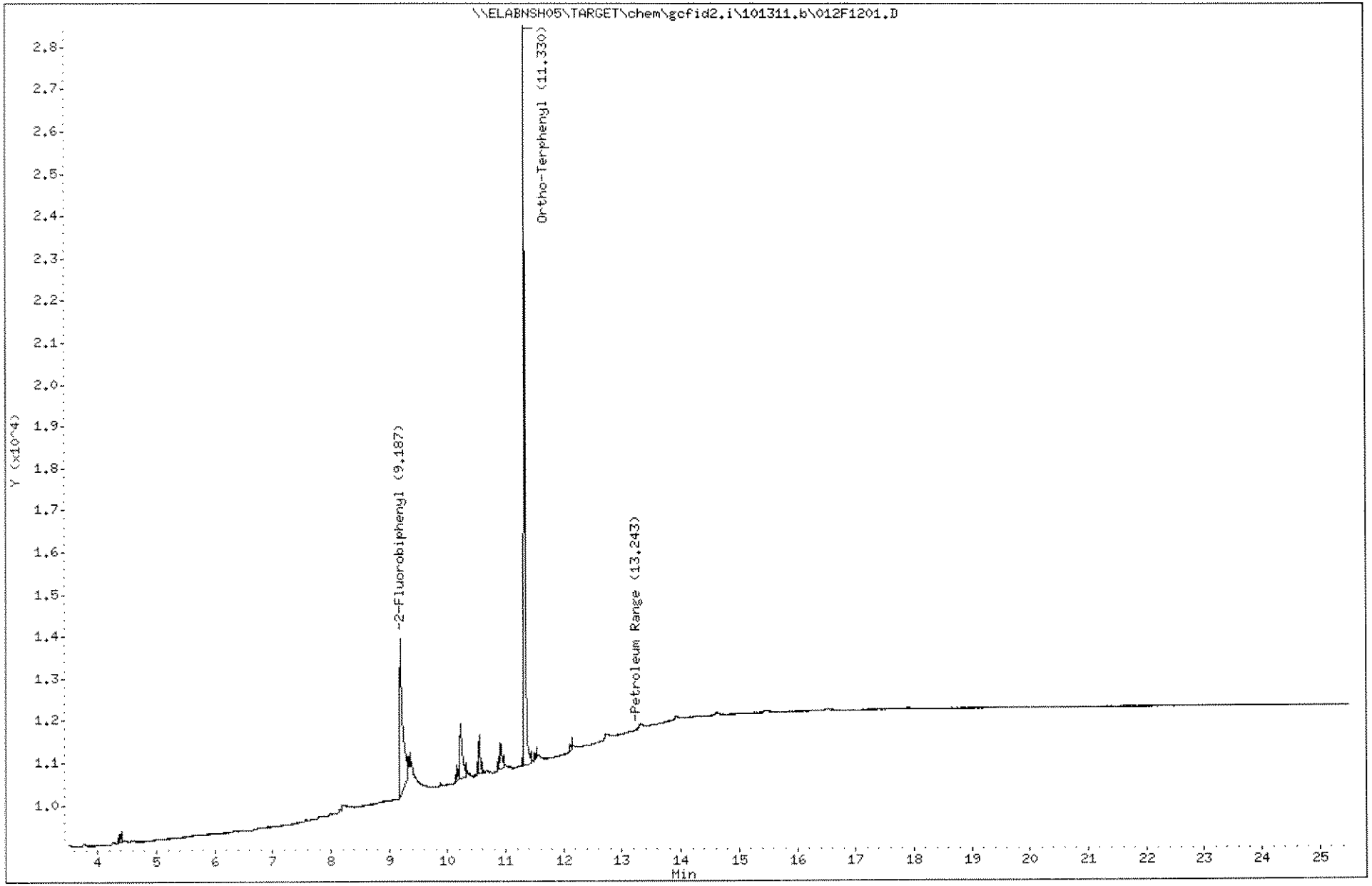
Instrument: gcfid2.i

Sample Info: 1110003-01RE1

Operator: JH

Column phase: ZB-5ms

Column diameter: 0.32



1065

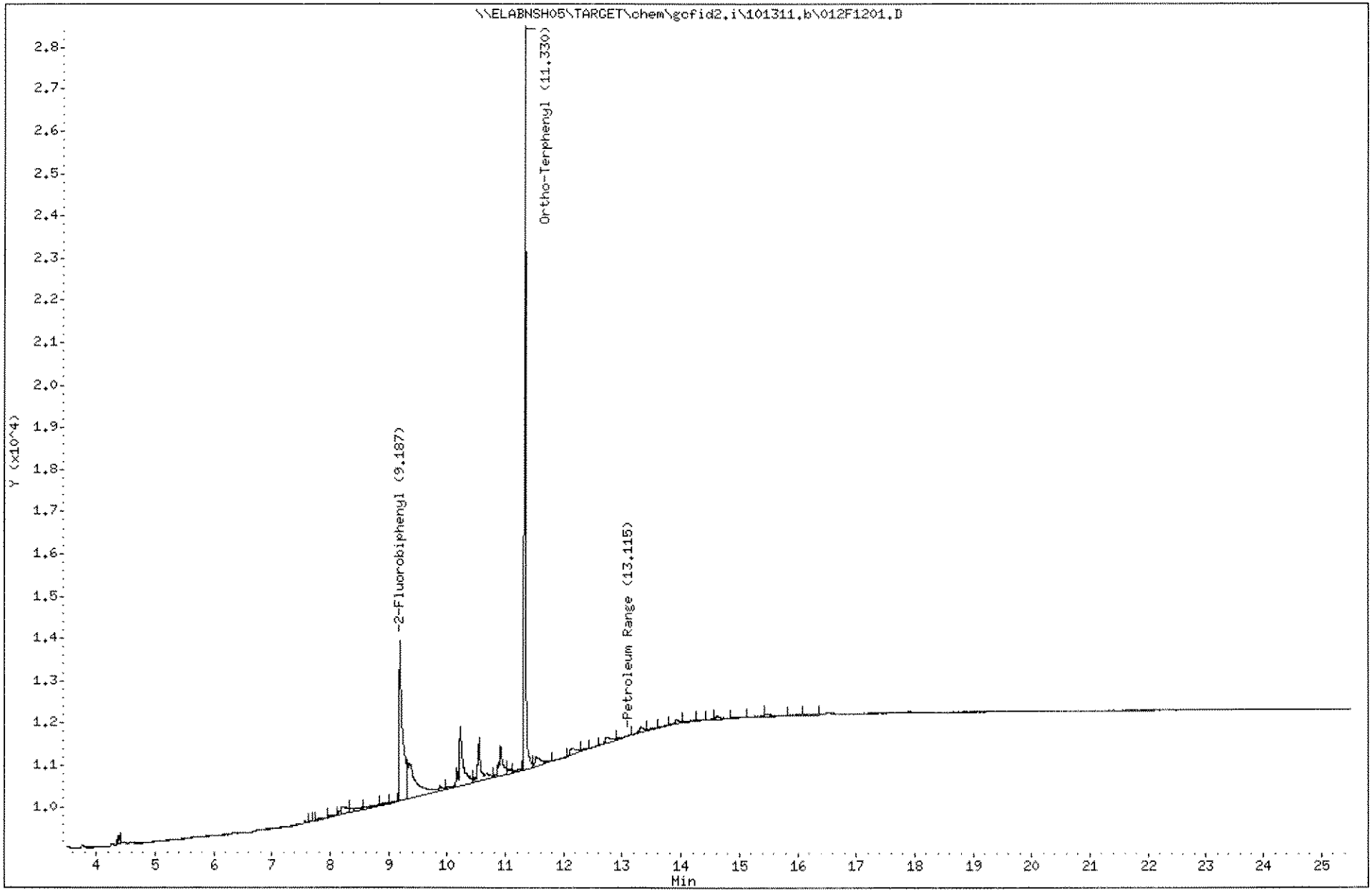
1110003

Data File: \\ELABNSH05\TARGET\chem\gcfid2.i\101311.b\012F1201.D
Date : 14-OCT-2011 14:52
Client ID:
Sample Info: 1110003-01RE1

Column phase: ZB-5ms

Instrument: gcfid2.i

Operator: JH
Column diameter: 0.32



1066

1110003

Laboratory Name

Data file : \\ELABNSH05\TARGET\chem\gcfid2.i\101311.b\013F1301.D
Lab Smp Id: 1110003-03RE1
Inj Date : 14-OCT-2011 15:26
Operator : JH Inst ID: gcfid2.i
Smp Info : 1110003-03RE1
Misc Info :
Comment :
Method : \\ELABNSH05\TARGET\chem\gcfid2.i\101311.b\FLPROF.m
Meth Date : 18-Oct-2011 14:25 cthompson Quant Type: ESTD
Cal Date : 23-DEC-2008 17:56 Cal File: 004R0201.D
Als bottle: 13
Dil Factor: 1.00000
Integrator: Falcon Compound Sublist: PROSURR.sub
Target Version: 4.04
Processing Host: TARGET08_VM

Compounds	RT	EXP RT	DLT RT	RESPONSE	CONCENTRATIONS ON-COLUMN (mg/L)	CONCENTRATIONS FINAL (mg/L)
$ 2 2-Fluorobiphenyl	9.176	9.170	0.006	20185	26.6114	26.61(RM)
$ 3 Ortho-Terphenyl	11.310	11.327	-0.017	38393	32.5181	32.52(RM)

QC Flag Legend

R - Spike/Surrogate failed recovery limits.
M - Compound response manually integrated.

10/19/11

Cat 10/18/11

Data File: \\ELABNSH05\TARGET\chem\gcfid2.i\101311.b\013F1301.D

Date : 14-OCT-2011 15:26

Client ID:

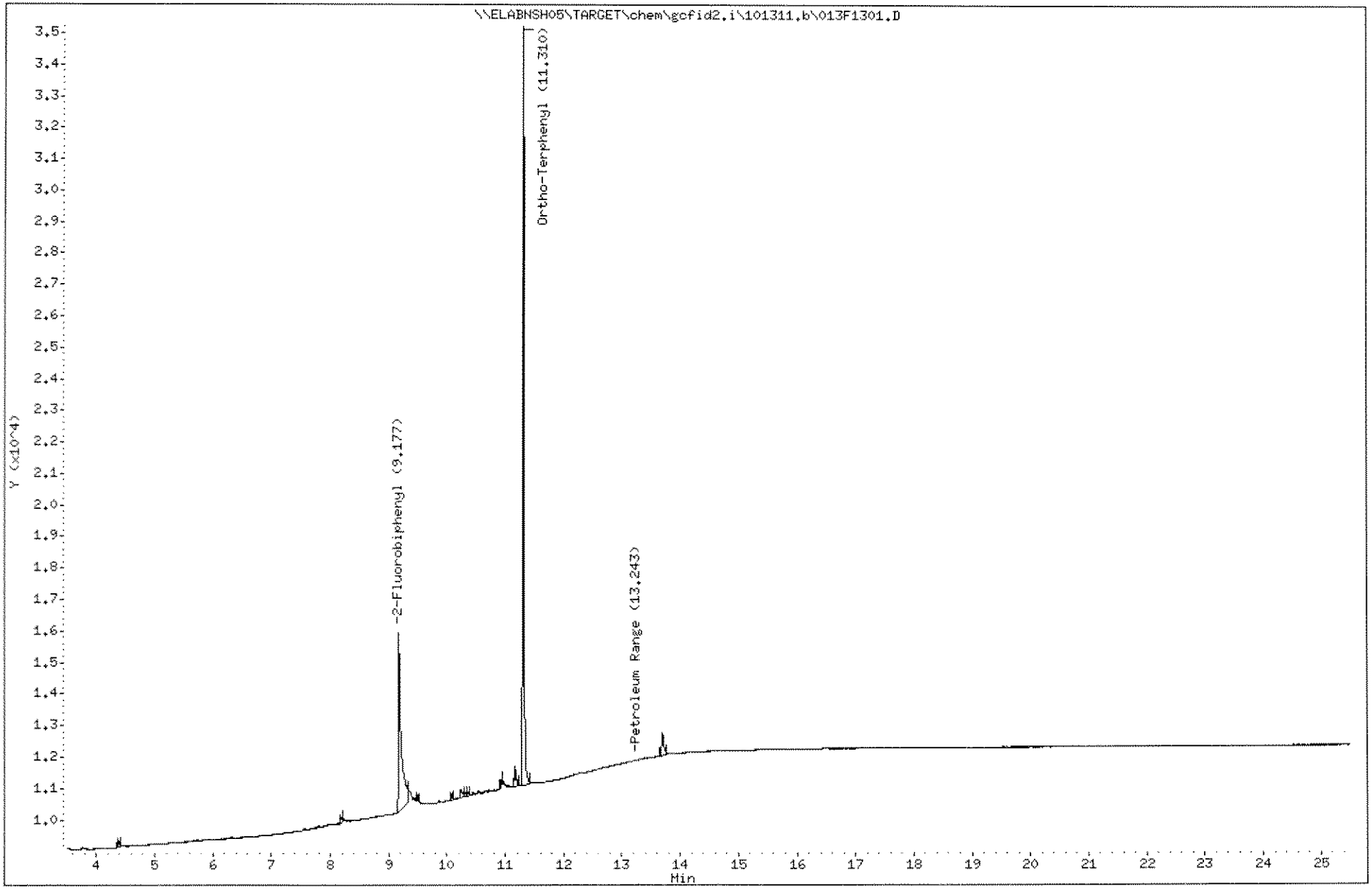
Instrument: gcfid2.i

Sample Info: 1110003-03RE1

Operator: JH

Column phase: ZB-5ms

Column diameter: 0.32



1068

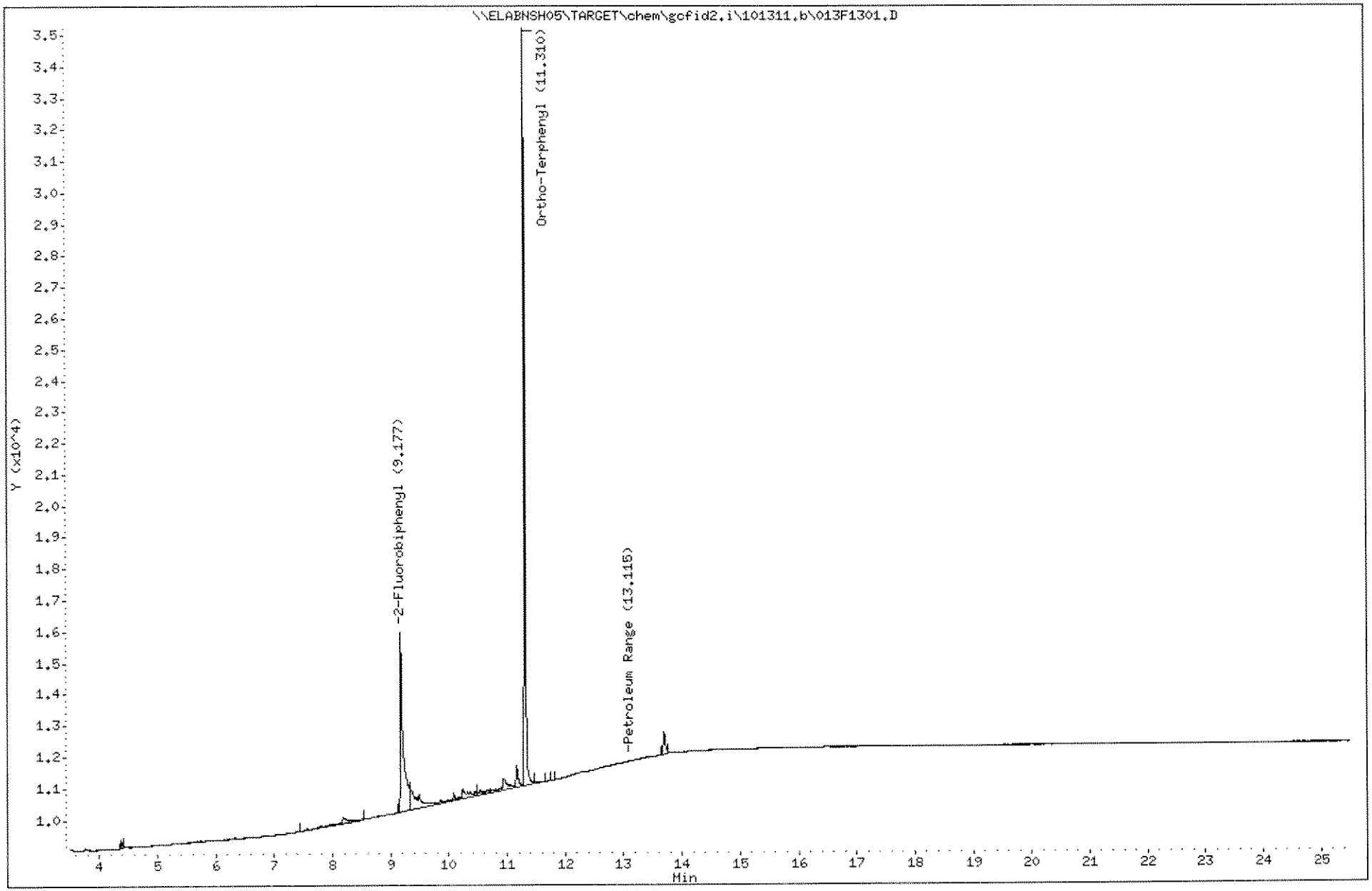
1110003

Data File: \\ELABNSH05\TARGET\chem\gcfid2.i\101311.b\013F1301.D
Date : 14-OCT-2011 15:26
Client ID:
Sample Info: 1110003-03RE1

Column phase: ZB-5ms

Instrument: gcfid2.i

Operator: JH
Column diameter: 0.32



1069

1110003

Laboratory Name

Data file : \\ELABNSH05\TARGET\chem\gcfid2.i\101311.b\014F1401.D
Lab Smp Id: 1110003-05RE1
Inj Date : 14-OCT-2011 15:59
Operator : JH Inst ID: gcfid2.i
Smp Info : 1110003-05RE1
Misc Info :
Comment :
Method : \\ELABNSH05\TARGET\chem\gcfid2.i\101311.b\FLPROF.m
Meth Date : 18-Oct-2011 14:25 cthompson Quant Type: ESTD
Cal Date : 23-DEC-2008 17:56 Cal File: 004R0201.D
Als bottle: 14
Dil Factor: 1.00000
Integrator: Falcon Compound Sublist: PROSURR.sub
Target Version: 4.04
Processing Host: TARGET08_VM

Compounds	RT	EXP RT	DLT RT	RESPONSE	CONCENTRATIONS ON-COLUMN (mg/L)	FINAL (mg/L)
S 1 Petroleum Range	4.136-22.093			422703	591.087	591.1(M)
$ 2 2-Fluorobiphenyl	9.166	9.170	-0.004	10856	17.3452	17.34(RM)
$ 3 Ortho-Terphenyl	11.310	11.327	-0.017	18746	15.8775	15.88(RM)

QC Flag Legend

R - Spike/Surrogate failed recovery limits.
M - Compound response manually integrated.

10/19/11

Cat 10/18/11

Data File: \\ELABNSH05\TARGET\chem\gcfid2.i\101311.b\014F1401.D

Date : 14-OCT-2011 15:59

Client ID:

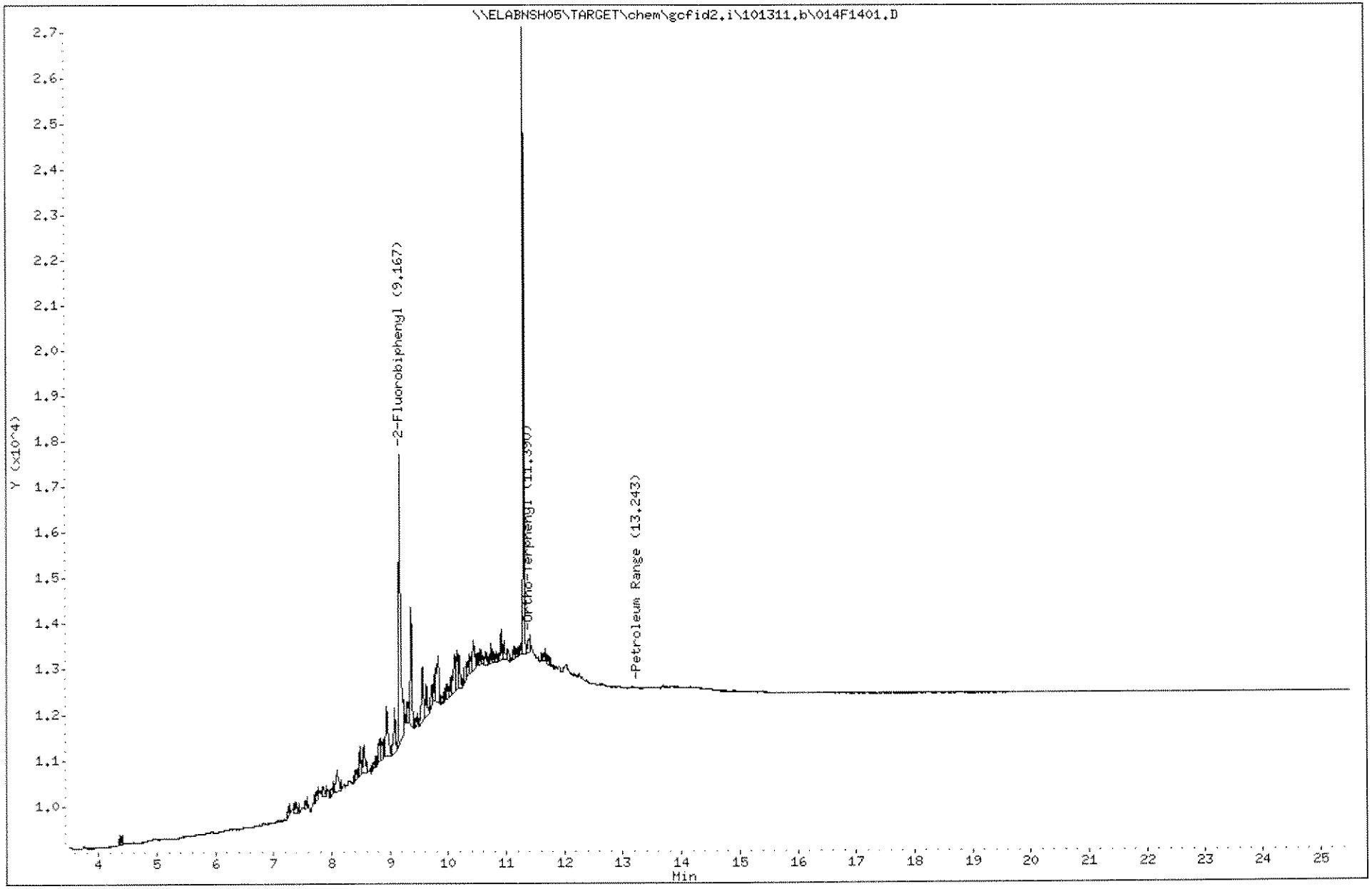
Instrument: gcfid2.i

Sample Info: 1110003-05RE1

Operator: JH

Column phase: ZB-5ms

Column diameter: 0.32



1071

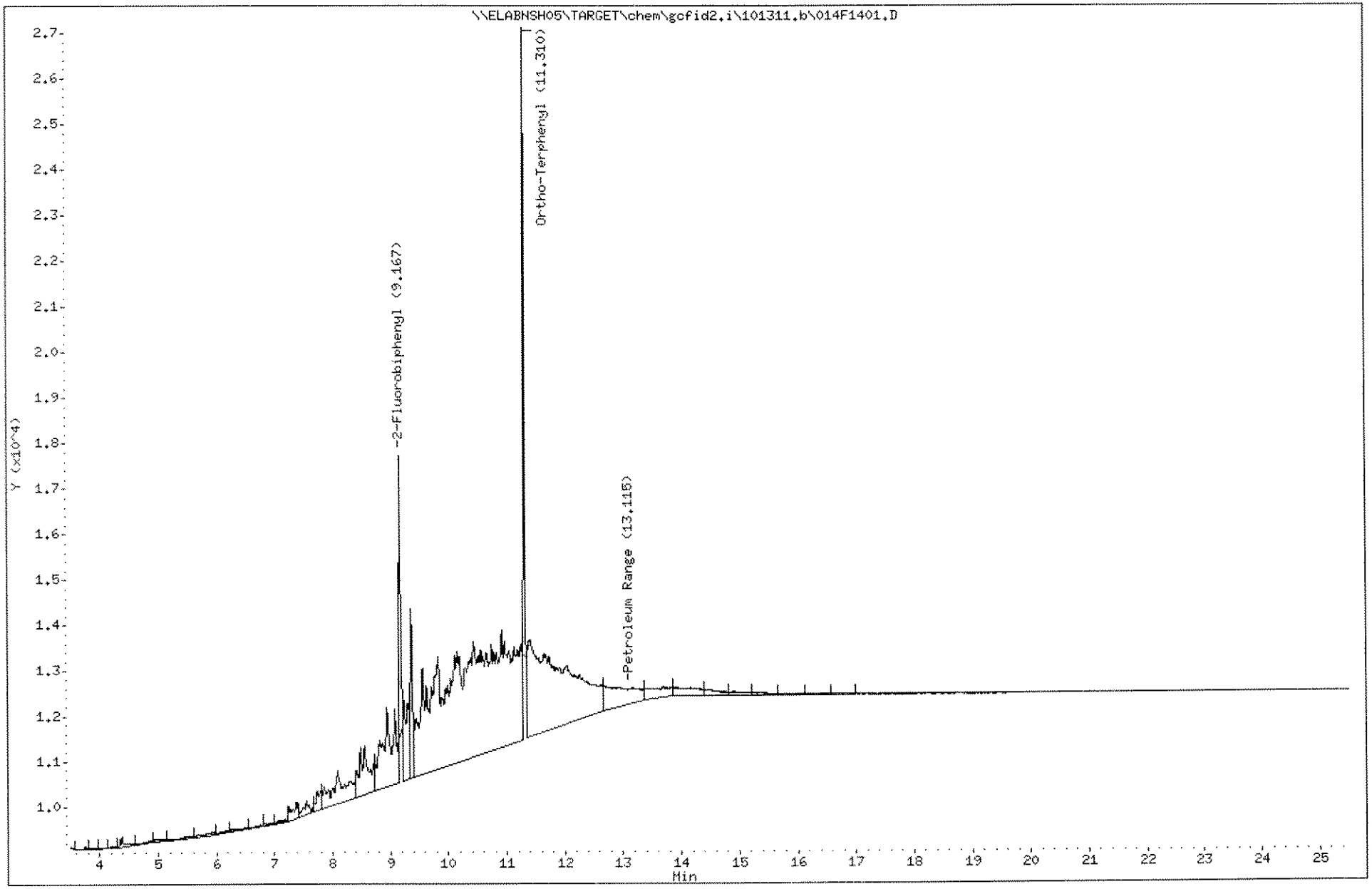
1110003

Data File: \\ELABNSH05\TARGET\chem\gcfid2.i\101311.b\014F1401.D
Date : 14-OCT-2011 15:59
Client ID:
Sample Info: 1110003-05RE1

Column phase: ZB-5ms

Instrument: gcfid2.i

Operator: JH
Column diameter: 0.32



1072

1110003

Laboratory Name

Data file : \\ELABNSH05\TARGET\chem\gcfid2.i\101311.b\015F1501.D
Lab Smp Id: 1110003-07RE1
Inj Date : 14-OCT-2011 16:32
Operator : JH Inst ID: gcfid2.i
Smp Info : 1110003-07RE1
Misc Info :
Comment :
Method : \\ELABNSH05\TARGET\chem\gcfid2.i\101311.b\FLPROF.m
Meth Date : 18-Oct-2011 14:25 cthompson Quant Type: ESTD
Cal Date : 23-DEC-2008 17:56 Cal File: 004R0201.D
Als bottle: 15
Dil Factor: 1.00000
Integrator: Falcon Compound Sublist: PROSURR.sub
Target Version: 4.04
Processing Host: TARGET08_VM

Compounds	RT	EXP RT	DLT RT	RESPONSE	CONCENTRATIONS ON-COLUMN (mg/L)	FINAL (mg/L)
$ 2 2-Fluorobiphenyl	9.183	9.170	0.013	13807	20.3741	20.37(RM)
$ 3 Ortho-Terphenyl	11.313	11.327	-0.014	21784	18.4506	18.45(RM)

QC Flag Legend

R - Spike/Surrogate failed recovery limits.
M - Compound response manually integrated.

10/19/11

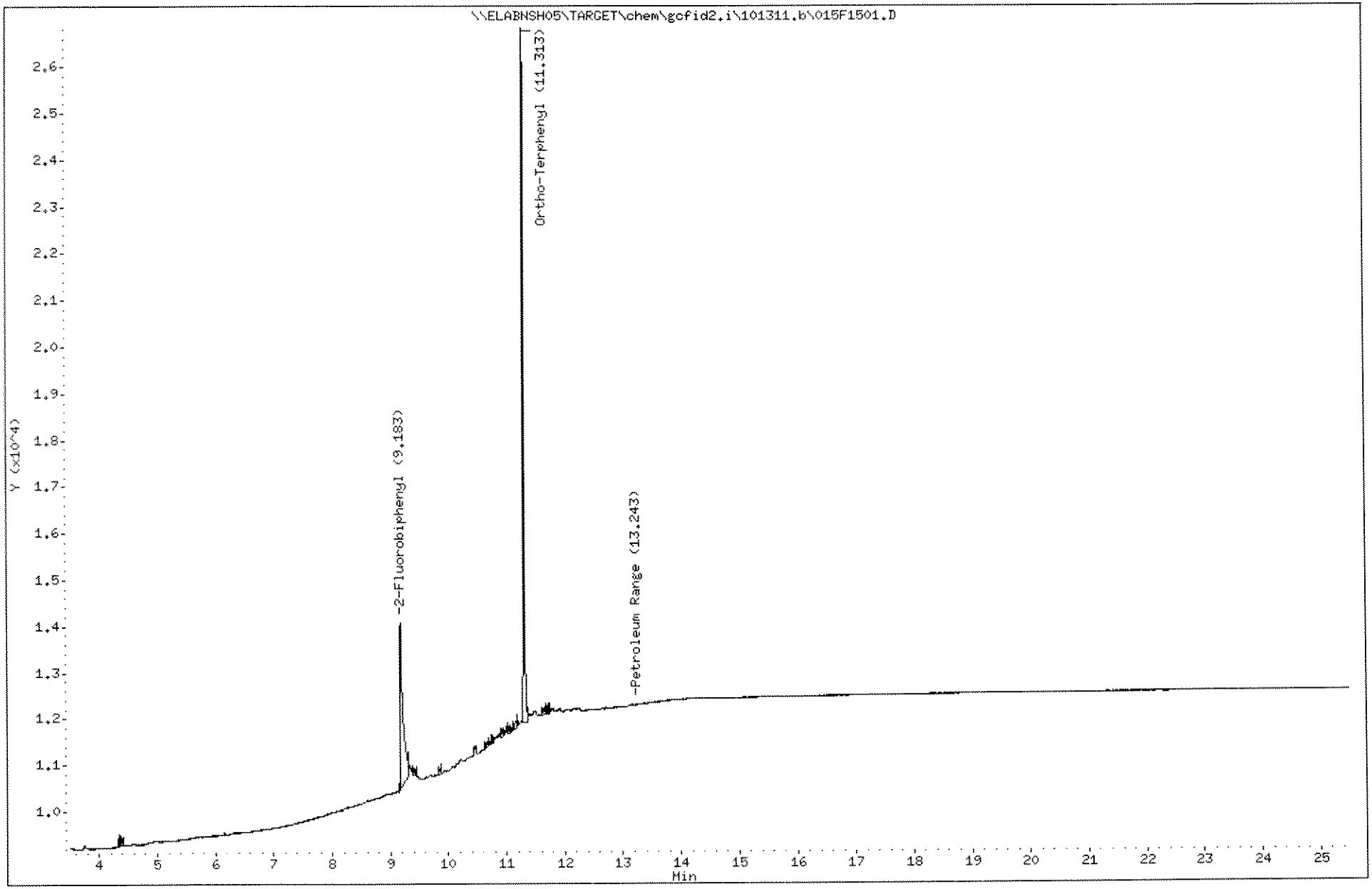
cat 10/18/11

Data File: \\ELABNSH05\TARGET\chem\gcfid2.i\101311.b\015F1501.D
Date : 14-OCT-2011 16:32
Client ID:
Sample Info: 1110003-07RE1

Column phase: ZB-5ms

Instrument: gcfid2.i

Operator: JH
Column diameter: 0.32



1074

1110003

Data File: \\ELABNSH05\TARGET\chem\gcfid2.i\101311.b\015F1501.D

Date : 14-OCT-2011 16:32

Client ID:

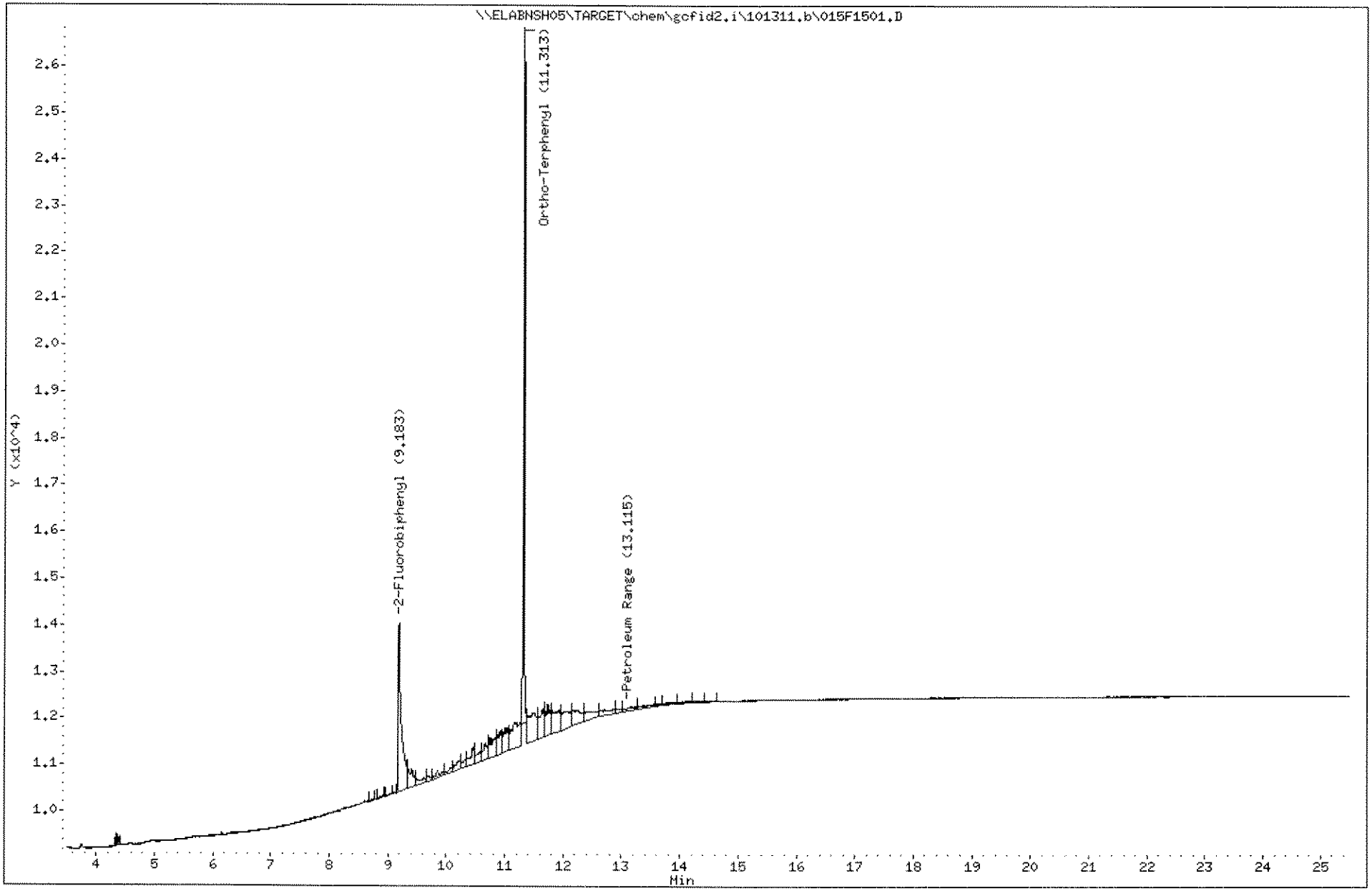
Sample Info: 1110003-07RE1

Column phase: ZB-5ms

Instrument: gcfid2.i

Operator: JH

Column diameter: 0.32



1075

1110003

Laboratory Name

Data file : \\ELABNSH05\TARGET\chem\gcfid2.i\101311.b\016F1601.D
Lab Smp Id: 1110003-09RE1
Inj Date : 14-OCT-2011 17:06
Operator : JH Inst ID: gcfid2.i
Smp Info : 1110003-09RE1
Misc Info :
Comment :
Method : \\ELABNSH05\TARGET\chem\gcfid2.i\101311.b\FLPROF.m
Meth Date : 18-Oct-2011 14:25 cthompson Quant Type: ESTD
Cal Date : 23-DEC-2008 17:56 Cal File: 004R0201.D
Als bottle: 16
Dil Factor: 1.00000
Integrator: Falcon Compound Sublist: PROSURR.sub
Target Version: 4.04
Processing Host: TARGET08_VM

Compounds	RT	EXP RT	DLT RT	RESPONSE	CONCENTRATIONS ON-COLUMN (mg/L)	CONCENTRATIONS FINAL (mg/L)
S 1 Petroleum Range	4.136-22.093			788827	1103.06	1103(M)
$ 2 2-Fluorobiphenyl	9.160	9.170	-0.010	13391	19.9526	19.95(RM)
$ 3 Ortho-Terphenyl	11.303	11.327	-0.024	15637	13.2442	13.24(RM)

QC Flag Legend

R - Spike/Surrogate failed recovery limits.
M - Compound response manually integrated.

10/19/11

Cat 10/18/11

Data File: \\ELABNSH05\TARGET\chem\gcfid2.i\101311.b\016F1601.D

Date : 14-OCT-2011 17:06

Client ID:

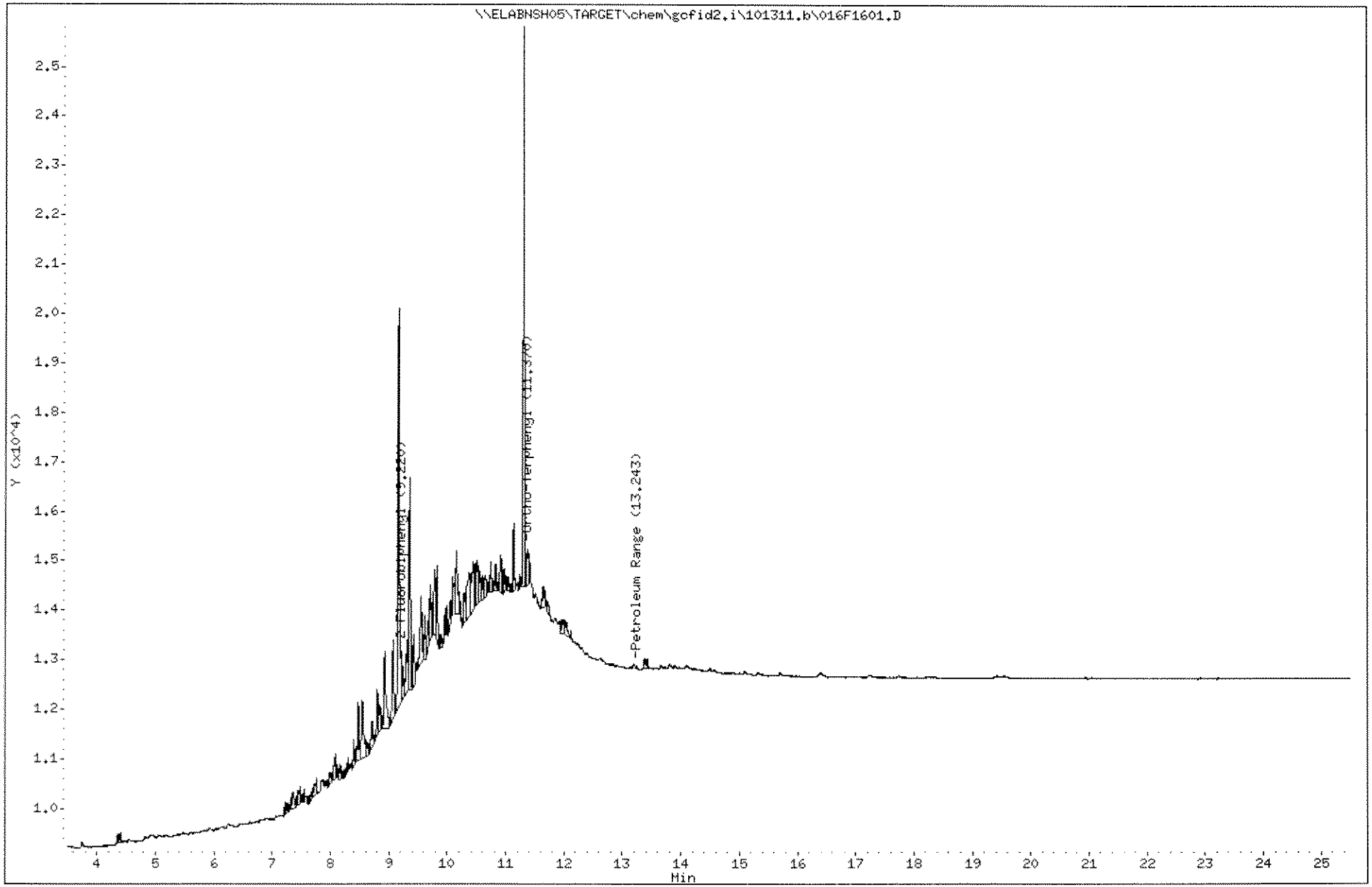
Instrument: gcfid2.i

Sample Info: 1110003-09RE1

Operator: JH

Column phase: ZB-5ms

Column diameter: 0.32



1077

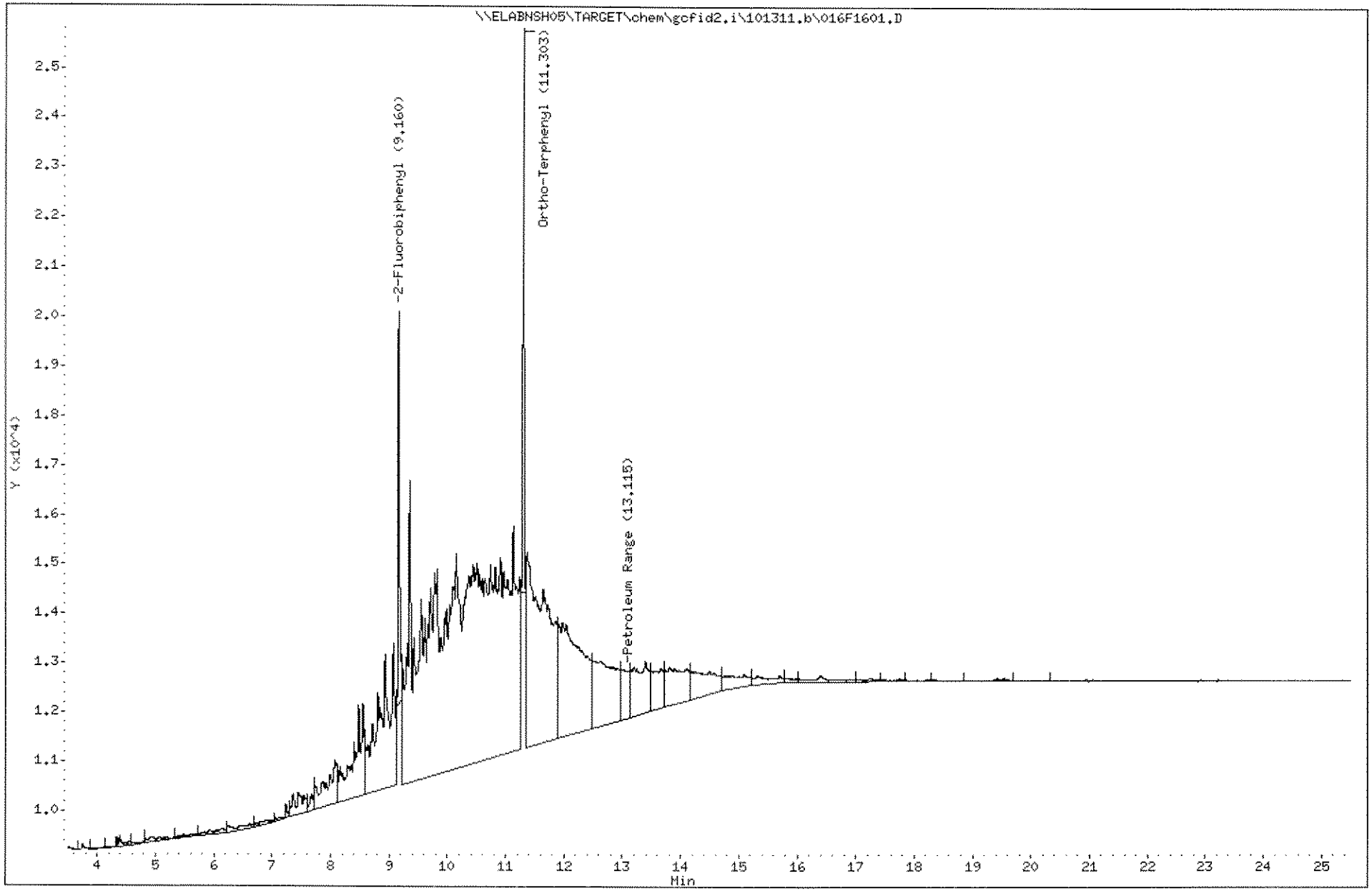
1110003

Data File: \\ELABNSH05\TARGET\chem\gcfid2.i\101311.b\016F1601.D
Date : 14-OCT-2011 17:06
Client ID:
Sample Info: 1110003-09RE1

Column phase: ZB-5ms

Instrument: gcfid2.i

Operator: JH
Column diameter: 0.32



1110003

1078

Laboratory Name

Data file : \\ELABNSH05\TARGET\chem\gcfid2.i\101311.b\017F1701.D
Lab Smp Id: 1110003-11RE1
Inj Date : 14-OCT-2011 17:39
Operator : JH Inst ID: gcfid2.i
Smp Info : 1110003-11RE1
Misc Info :
Comment :
Method : \\ELABNSH05\TARGET\chem\gcfid2.i\101311.b\FLPROF.m
Meth Date : 18-Oct-2011 14:25 cthompson Quant Type: ESTD
Cal Date : 23-DEC-2008 17:56 Cal File: 004R0201.D
Als bottle: 17
Dil Factor: 1.00000
Integrator: Falcon Compound Sublist: PROSURR.sub
Target Version: 4.04
Processing Host: TARGET08_VM

Compounds	RT	EXP RT	DLT RT	RESPONSE	CONCENTRATIONS ON-COLUMN (mg/L)	CONCENTRATIONS FINAL (mg/L)
$ 2 2-Fluorobiphenyl	9.173	9.170	0.003	15159	21.7316	21.73(RM)
$ 3 Ortho-Terphenyl	11.330	11.327	0.003	27129	22.9777	22.98(R)

QC Flag Legend

R - Spike/Surrogate failed recovery limits.
M - Compound response manually integrated.

10/19/11

Cat 10/21/11

Data File: \\ELABNSH05\TARGET\chem\gcfid2.i\101311.b\017F1701.D

Date : 14-OCT-2011 17:39

Client ID:

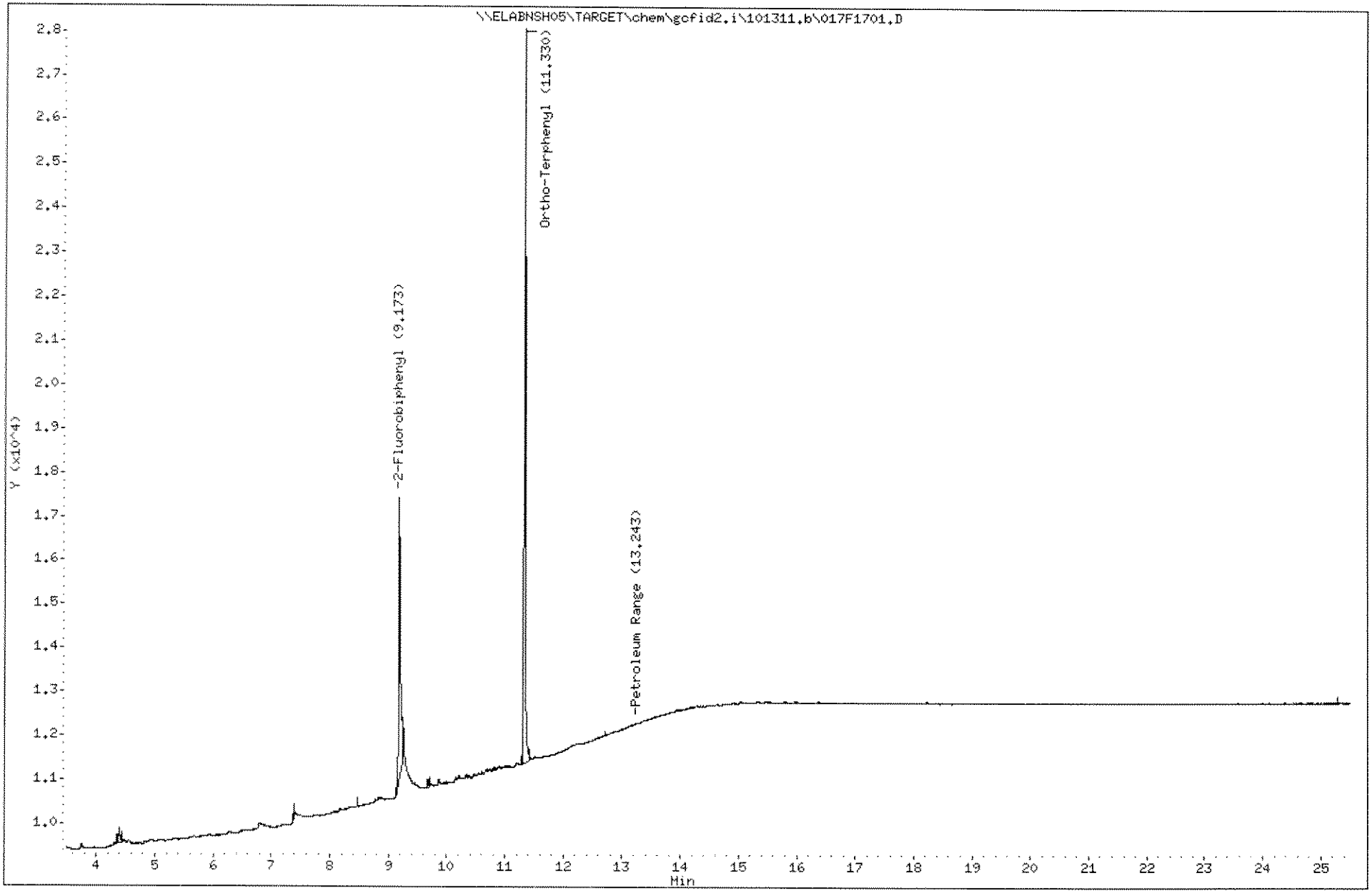
Sample Info: 1110003-11RE1

Column phase: ZB-5ms

Instrument: gcfid2.i

Operator: JH

Column diameter: 0.32



1080

1110003

Data File: \\ELABNSH05\TARGET\chem\gcfid2.i\101311.b\017F1701.D

Date : 14-OCT-2011 17:39

Client ID:

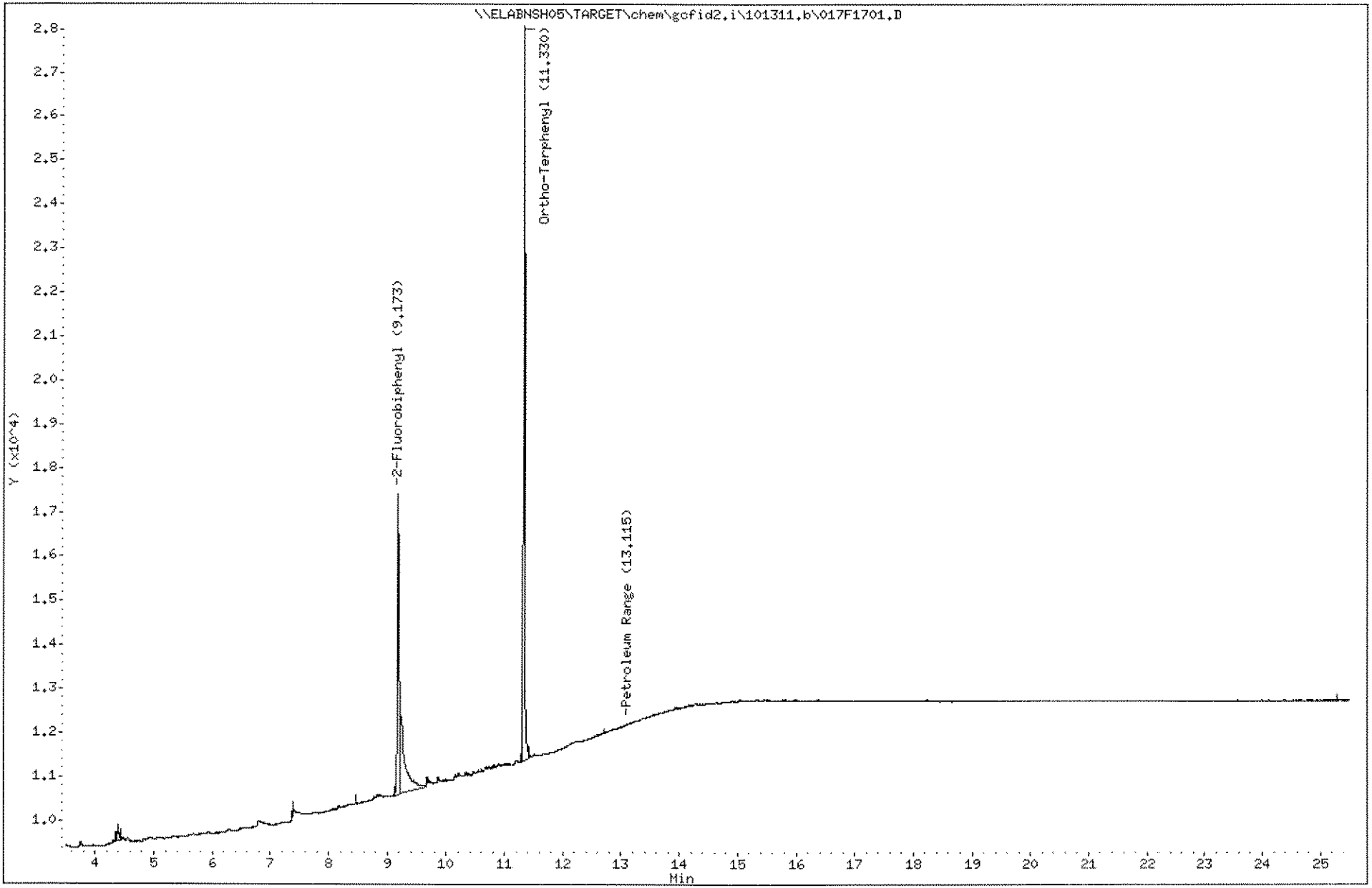
Sample Info: 1110003-11RE1

Column phase: ZB-5ms

Instrument: gcfid2.i

Operator: JH

Column diameter: 0.32



1081

1110003

Laboratory Name

Data file : \\ELABNSH05\TARGET\chem\gcfid2.i\101311.b\021F2101.D
Lab Smp Id: 1110003-14RE1
Inj Date : 14-OCT-2011 19:52
Operator : JH Inst ID: gcfid2.i
Smp Info : 1110003-14RE1
Misc Info :
Comment :
Method : \\ELABNSH05\TARGET\chem\gcfid2.i\101311.b\FLPROF.m
Meth Date : 18-Oct-2011 14:25 cthompson Quant Type: ESTD
Cal Date : 23-DEC-2008 17:56 Cal File: 004R0201.D
Als bottle: 21
Dil Factor: 1.00000
Integrator: Falcon Compound Sublist: PROSURR.sub
Target Version: 4.04
Processing Host: TARGET08_VM

Compounds	RT	EXP RT	DLT RT	RESPONSE	CONCENTRATIONS ON-COLUMN (mg/L)	CONCENTRATIONS FINAL (mg/L)
S 1 Petroleum Range	4.136-22.093			1001841	1400.92	1401(M)
$ 2 2-Fluorobiphenyl	9.156	9.170	-0.014	18764	25.2584	25.26(RM)
$ 3 Ortho-Terphenyl	11.286	11.327	-0.041	20570	17.4224	17.42(RM)

QC Flag Legend

R - Spike/Surrogate failed recovery limits.
M - Compound response manually integrated.

10/19/11

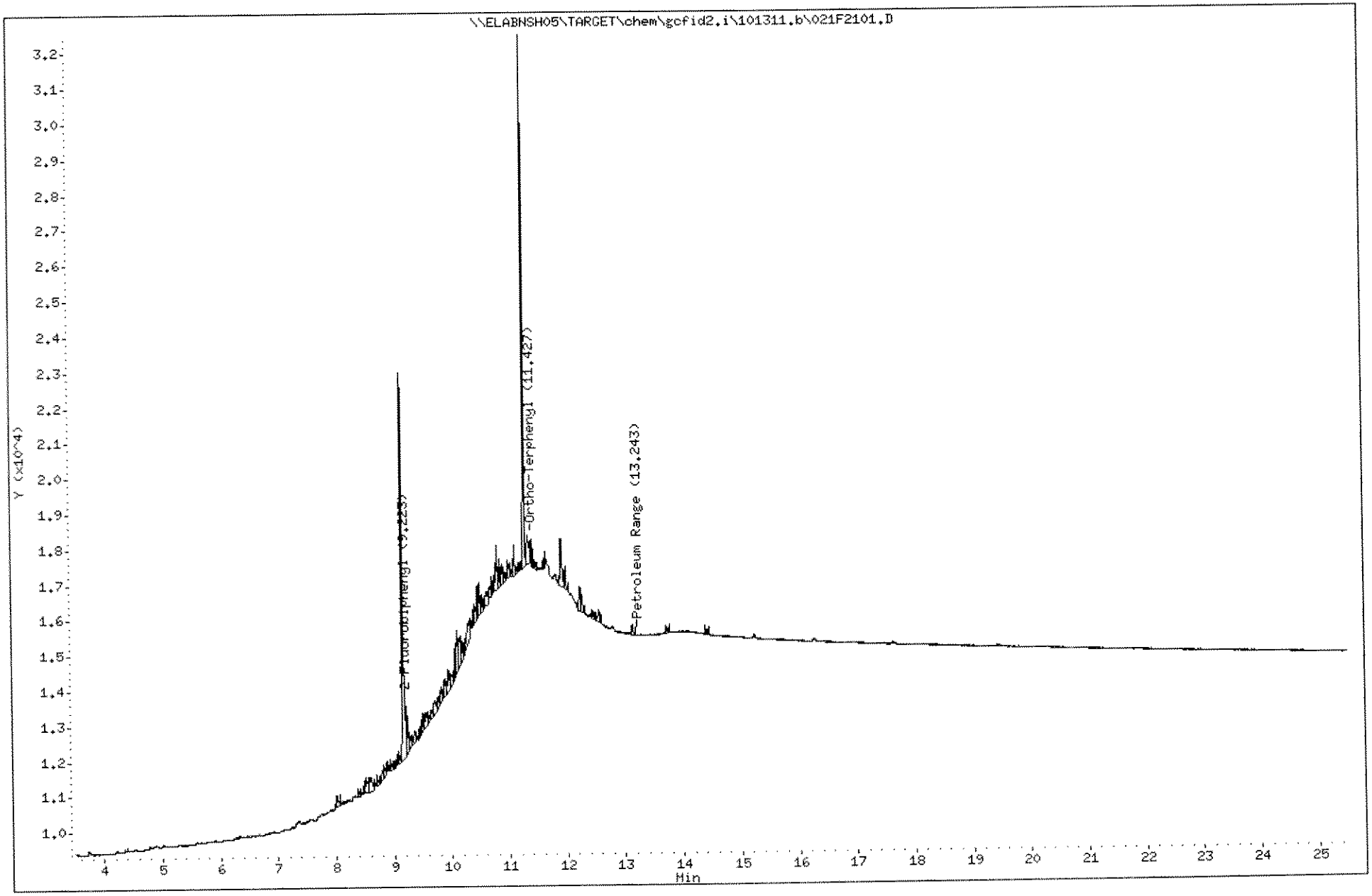
Cat 10/18/11

Data File: \\ELABNSH05\TARGET\chem\gcfid2.i\101311.b\021F2101.D
Date : 14-OCT-2011 19:52
Client ID:
Sample Info: 1110003-14RE1

Column phase: ZB-5ms

Instrument: gcfid2.i

Operator: JH
Column diameter: 0.32



1083

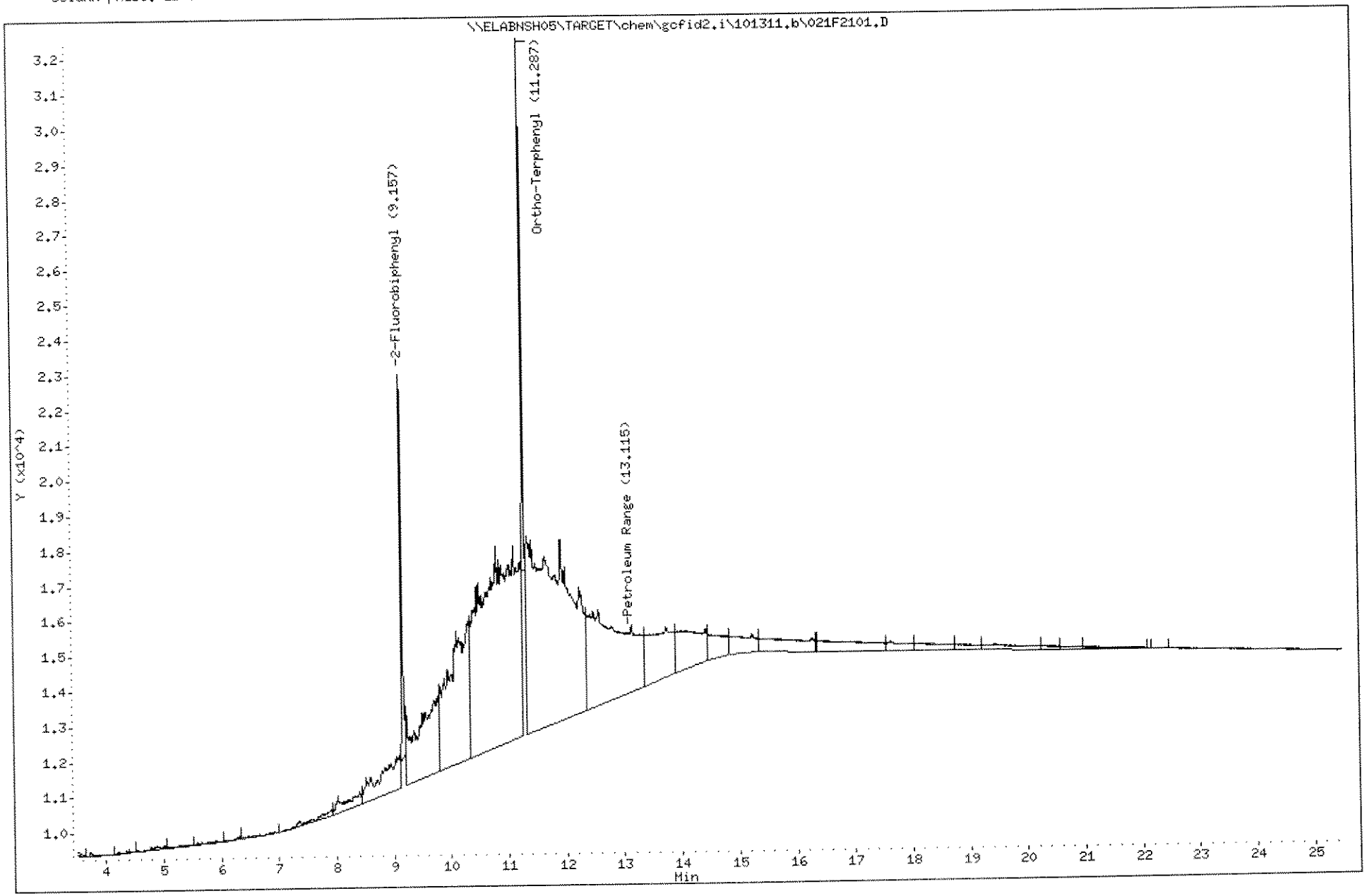
1110003

Data File: \\ELABNSH05\TARGET\chem\gcfid2.i\101311.b\021F2101.D
Date : 14-OCT-2011 19:52
Client ID:
Sample Info: 1110003-14RE1

Column phase: ZB-5ms

Instrument: gcfid2.i

Operator: JH
Column diameter: 0.32



1084

1110003

Laboratory Name

Data file : \\ELABNSH05\TARGET\chem\gcfid2.i\101311.b\022F2201.D
Lab Smp Id: SEQ-CCV2
Inj Date : 14-OCT-2011 20:25
Operator : JH Inst ID: gcfid2.i
Smp Info : SEQ-CCV2
Misc Info :
Comment :
Method : \\ELABNSH05\TARGET\chem\gcfid2.i\101311.b\FLPROF.m
Meth Date : 18-Oct-2011 14:25 cthompson Quant Type: ESTD
Cal Date : 23-DEC-2008 17:56 Cal File: 004R0201.D
Als bottle: 22 Continuing Calibration Sample
Dil Factor: 1.00000
Integrator: Falcon Compound Sublist: PROSURR.sub
Target Version: 4.04
Processing Host: TARGET08_VM

Compounds	RT	EXP RT	DLT RT	RESPONSE	AMOUNTS CAL-AMT (mg/L)	AMOUNTS ON-COL (mg/L)
S 1 Petroleum Range	4.136-22.093			2700555	4250.00	3776
$ 2 2-Fluorobiphenyl	9.153	9.170	-0.017	26554	25.0000	32.42
$ 3 Ortho-Terphenyl	11.280	11.327	-0.047	32465 *	25.0000	27.50

10/19/11

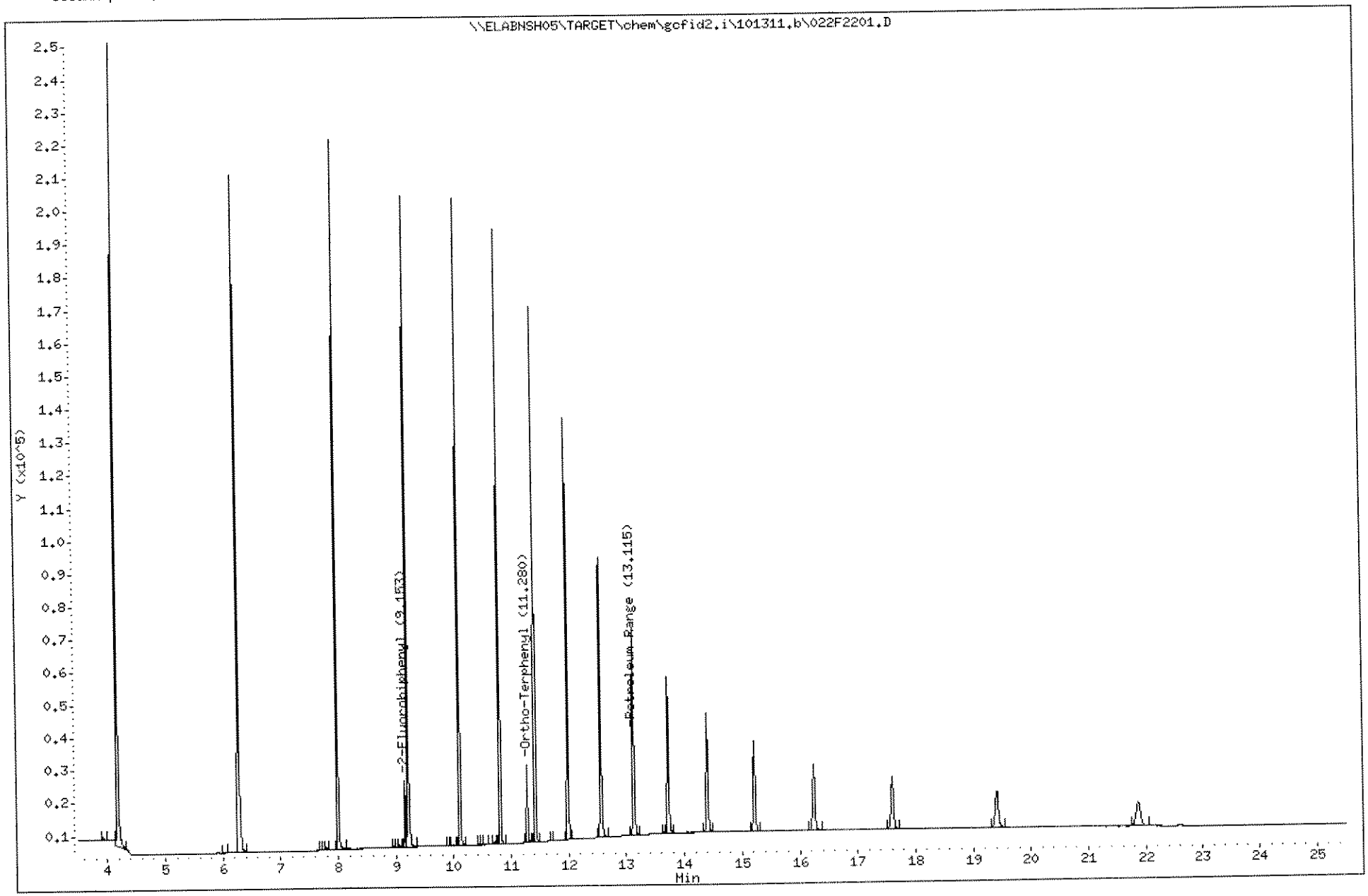
10/18/11

Data File: \\ELABNSH05\TARGET\chem\gcfid2.i\101311.b\022F2201.D
Date : 14-OCT-2011 20:25
Client ID:
Sample Info: SEQ-CCV2

Column phase: ZB-5ms

Instrument: gcfid2.i

Operator: JH
Column diameter: 0.32



1086

1110003

Sequence Table (Front Injector):

Quantification Part:

DRO
FLPRO

Line	Location	SampleName	SampleAmount	ISTDAmt	Multiplier	Dilution
1	Vial 1	INST BLK				
2	Vial 2	RT MARKER				
3	Vial 3	SEQ-CCV1 11 70567				
4	Vial 4	1J17014-BLK1				
5	Vial 5	1J17014-BS1				
6	Vial 6	1J17014-MRL1				
7	Vial 7	1110005-01				
8	Vial 8	1110036-02				
9	Vial 9	1J17014-MS1				
10	Vial 10	1J17014-MSD1				
11	Vial 11	1110036-03				
12	Vial 12	1110036-04				
13	Vial 13	1110036-05				
14	Vial 14	1110045-01				
15	Vial 15	1110045-02				
16	Vial 16	SEQ-CCV2 11 70567				
17	Vial 17	SEQ-CCV1 11 30275				
18	Vial 18	1110003-12RE1@2				
19	Vial 19	1J07001-MS1@2				
20	Vial 20	1J07001-MSD1@2				
21	Vial 21	SEQ-CCV2 11 30275				
22	Vial 22	JT BAKER				
23	Vial 23	OMNISOLV				

Cat
10/20/11

Sequence Table (Back Injector):

No entries - empty table!

Cat 10/24/11

Laboratory Name

Data file : \\ELABNSH05\TARGET\chem\gcfid2.i\101811A.b\017F1701.D
Lab Smp Id: SEQ-CCV1
Inj Date : 19-OCT-2011 01:01
Operator : CAT Inst ID: gcfid2.i
Smp Info : SEQ-CCV1
Misc Info :
Comment :
Method : \\ELABNSH05\TARGET\chem\gcfid2.i\101811A.b\FLPROF.m
Meth Date : 19-Oct-2011 13:48 pcormier Quant Type: ESTD
Cal Date : 23-DEC-2008 17:56 Cal File: 004R0201.D
Als bottle: 17 Continuing Calibration Sample
Dil Factor: 1.00000
Integrator: Falcon Compound Sublist: PROSURR.sub
Target Version: 4.04
Processing Host: TARGET19_VM

Compounds	RT	EXP RT	DLT RT	RESPONSE	AMOUNTS CAL-AMT (mg/L)	AMOUNTS ON-COL (mg/L)
S 1 Petroleum Range	4.113-21.810			2596611 *	4250.00	3631
$ 2 2-Fluorobiphenyl	9.150	9.150	0.000	22916	25.0000	29.15
$ 3 Ortho-Terphenyl	11.263	11.263	0.000	31069 *	25.0000	26.31

10/20/11

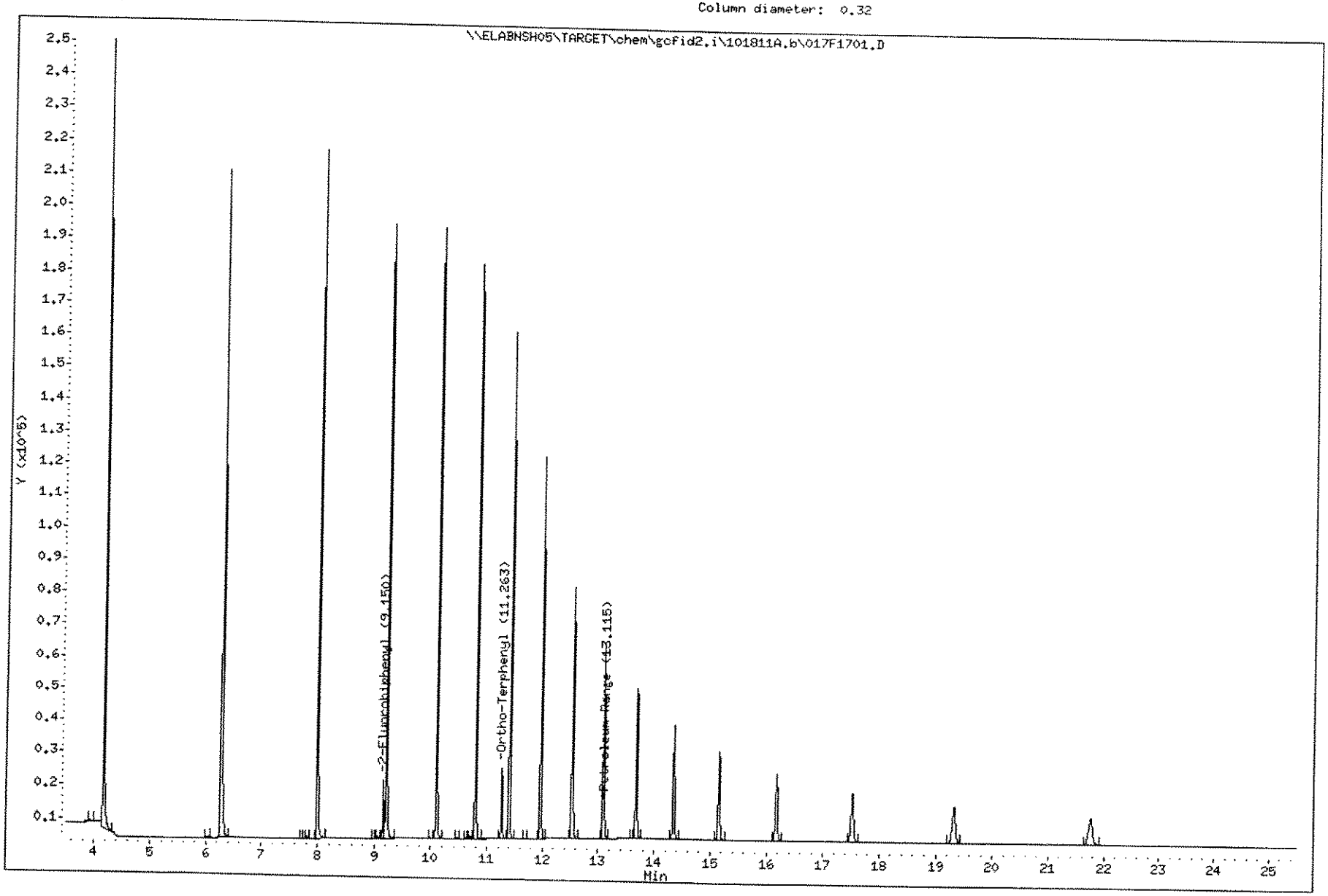
Data File: \\ELABNSH05\TARGET\chem\gcfid2.i\101811A.b\017F1701.D
Date : 19-OCT-2011 01:01
Client ID:
Sample Info: SEQ-CCV1

Column phase: ZB-5ms

Page 2

Instrument: gcfid2.i

Operator: CAT
Column diameter: 0.32



1089

1110003

Laboratory Name

Cat 10/24/11

Data file : \\ELABNSH05\TARGET\chem\gcfid2.i\101811A.b\018F1801.D
Lab Smp Id: 1110003-12RE1@2
Inj Date : 19-OCT-2011 01:34
Operator : CAT Inst ID: gcfid2.i
Smp Info : 1110003-12RE1@2
Misc Info :
Comment :
Method : \\ELABNSH05\TARGET\chem\gcfid2.i\101811A.b\FLPROF.m
Meth Date : 19-Oct-2011 13:48 pcormier Quant Type: ESTD
Cal Date : 23-DEC-2008 17:56 Cal File: 004R0201.D
Als bottle: 18
Dil Factor: 2.00000
Integrator: Falcon Compound Sublist: PROSURR.sub
Target Version: 4.04
Processing Host: TARGET19_VM

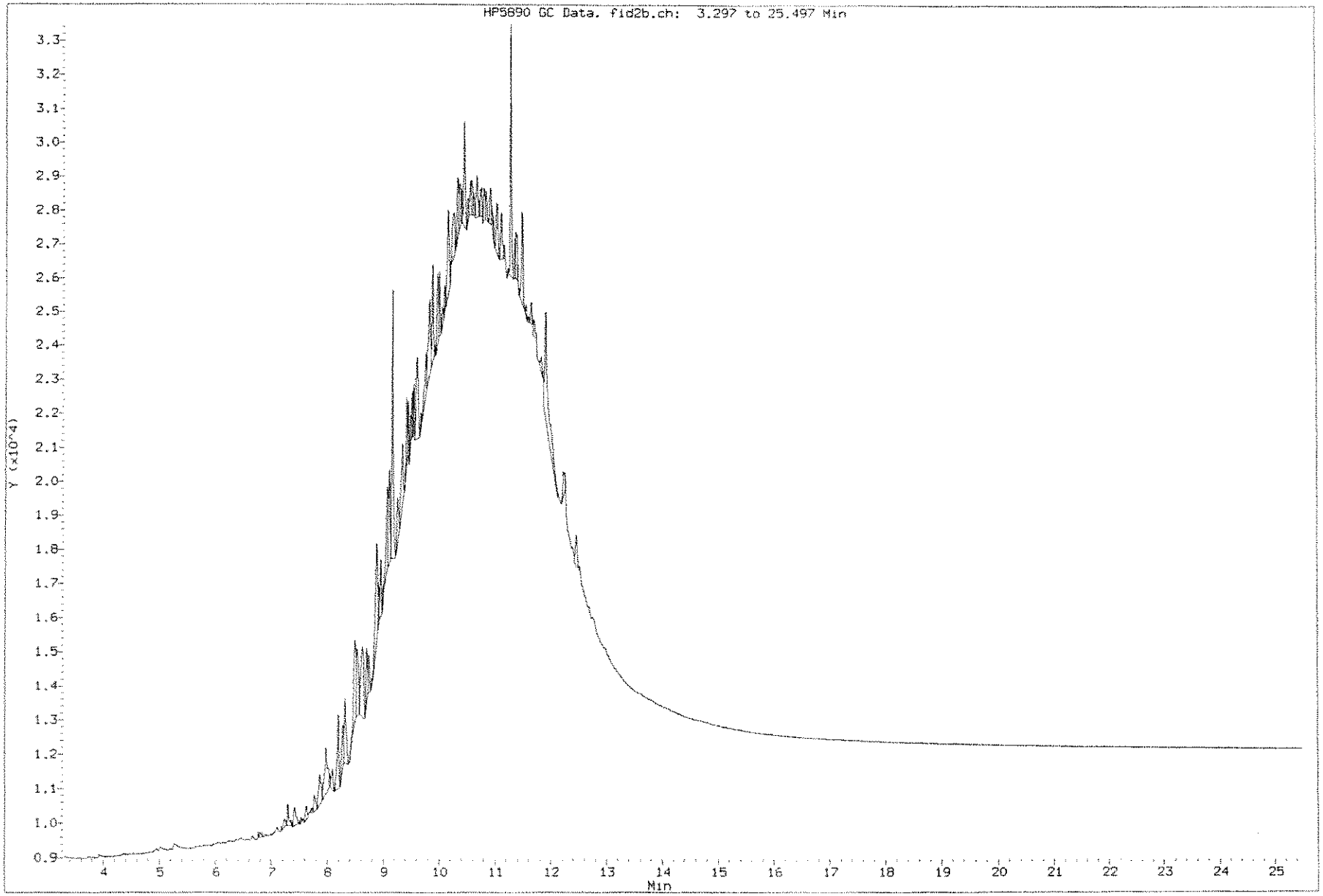
Compounds	RT	EXP RT	DLT RT	RESPONSE	CONCENTRATIONS ON-COLUMN (mg/L)	FINAL (mg/L)
$ 1 Petroleum Range	4.113-21.810			3644827	5096.74	10190(M)
$ 2 2-Fluorobiphenyl	9.146	9.150	-0.004	11463	17.9756	17.98(RM)
$ 3 Ortho-Terphenyl	11.256	11.263	-0.007	10114	8.56635	8.566(RM)

QC Flag Legend

R - Spike/Surrogate failed recovery limits.
M - Compound response manually integrated.

10/20/11

Data File: \\EL4BNSH05\TARGET\chem\gcfid2.i\101811A.b\018F1801.D
Injection Date: 19-OCT-2011 01:34
Instrument: gcfid2.i
Client Sample ID:



Data File: \\ELABNSH05\TARGET\chem\gcfid2.i\101811A.b\018F1801.D
Date : 19-OCT-2011 01:34
Client ID:
Sample Info: 1110003-12RE1@2

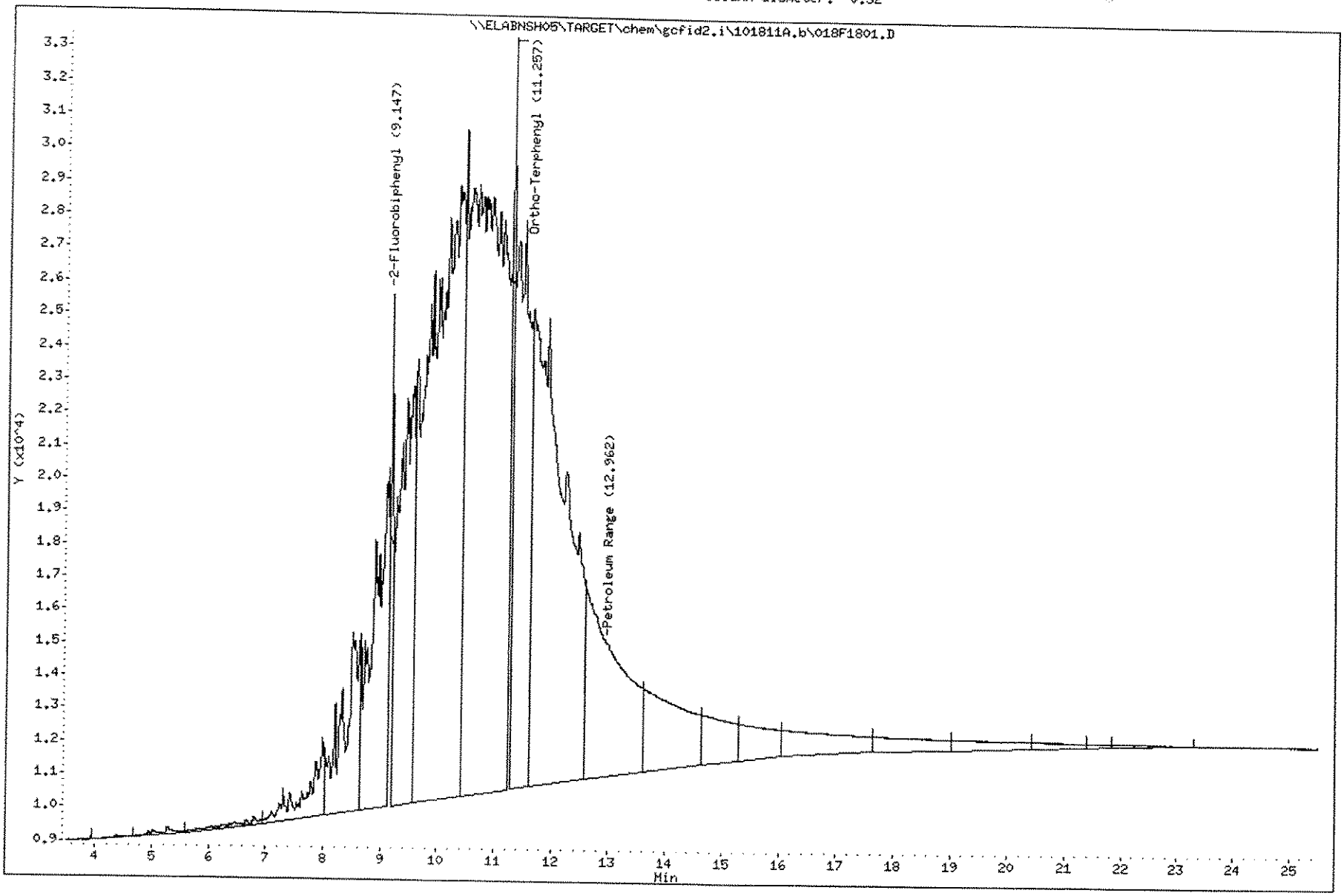
Column phase: ZB-5ms

Instrument: gcfid2.i

Operator: CAT
Column diameter: 0.32

a,b,c

10/20/11



1092

1110003

Cat 10/20/11

Laboratory Name

Data file : \\ELABNSH05\TARGET\chem\gcfid2.i\101811A.b\019F1901.D
Lab Smp Id: 1J07001-MS1@2
Inj Date : 19-OCT-2011 02:07
Operator : CAT Inst ID: gcfid2.i
Smp Info : 1J07001-MS1@2
Misc Info :
Comment :
Method : \\ELABNSH05\TARGET\chem\gcfid2.i\101811A.b\FLPROF.m
Meth Date : 19-Oct-2011 13:48 pcormier Quant Type: ESTD
Cal Date : 23-DEC-2008 17:56 Cal File: 004R0201.D
Als bottle: 19
Dil Factor: 2.00000
Integrator: Falcon Compound Sublist: PROSURR.sub
Target Version: 4.04
Processing Host: TARGET19_VM

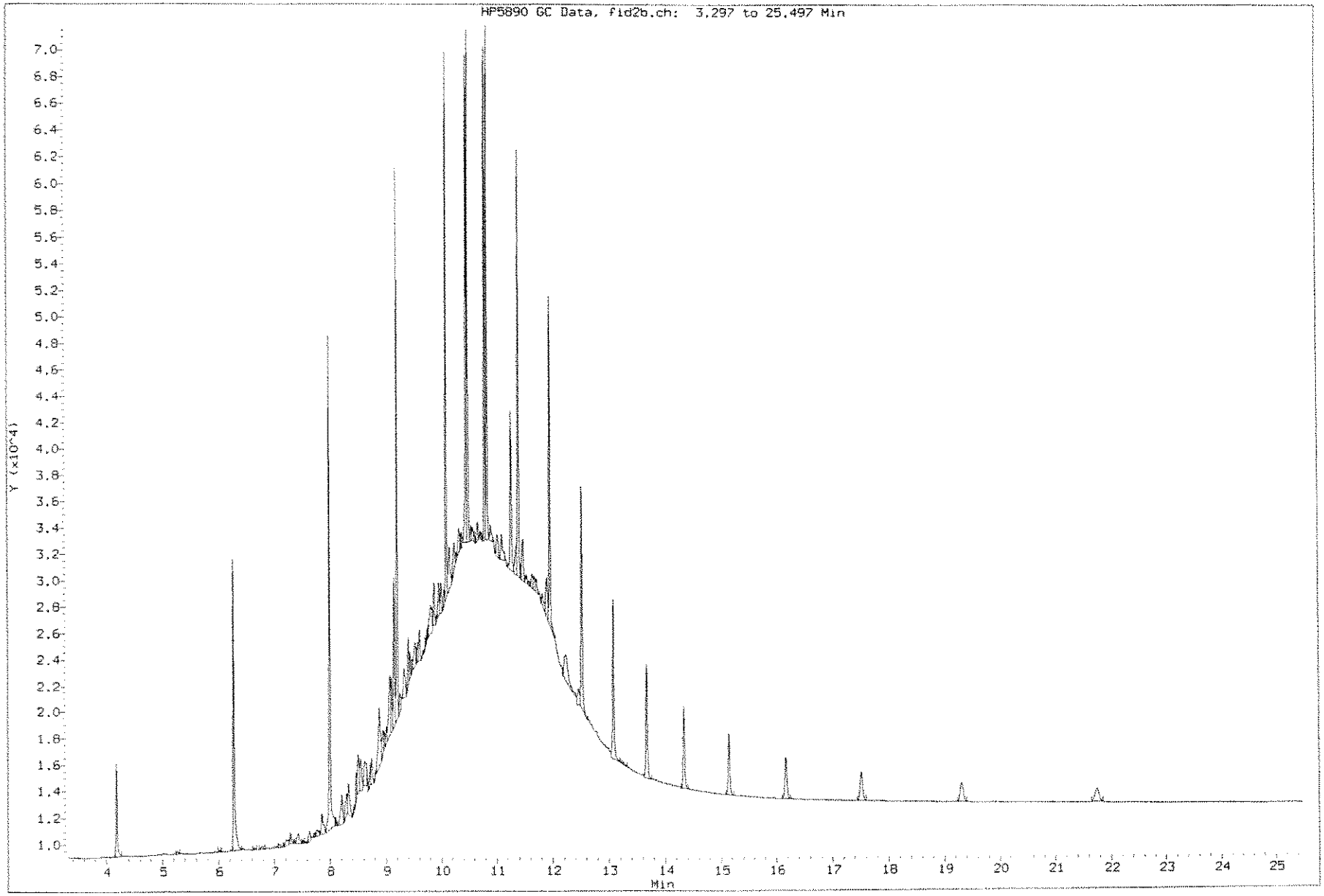
Compounds	RT	EXP RT	DLT RT	RESPONSE	CONCENTRATIONS ON-COLUMN (mg/L)	FINAL (mg/L)
S 1 Petroleum Range	4.113-21.810			5048331	7059.33	14120(M)
$ 2 2-Fluorobiphenyl	9.143	9.150	-0.007	12933	19.4864	19.49(RM)
$ 3 Ortho-Terphenyl	11.260	11.263	-0.003	16444	13.9277	13.93(RM)

QC Flag Legend

R - Spike/Surrogate failed recovery limits.
M - Compound response manually integrated.

10/20/11

Data File: \\ELABNSHO5\TARGET\chem\gcfid2.i\101811A.b\019F1901.D
Injection Date: 19-OCT-2011 02:07
Instrument: gcfid2.i
Client Sample ID:



1094

1110003

Data File: \\ELABNSH05\TARGET\chem\gcfid2.i\101811A.b\019F1901.D
Date : 19-OCT-2011 02:07
Client ID:
Sample Info: 1J07001-MS102

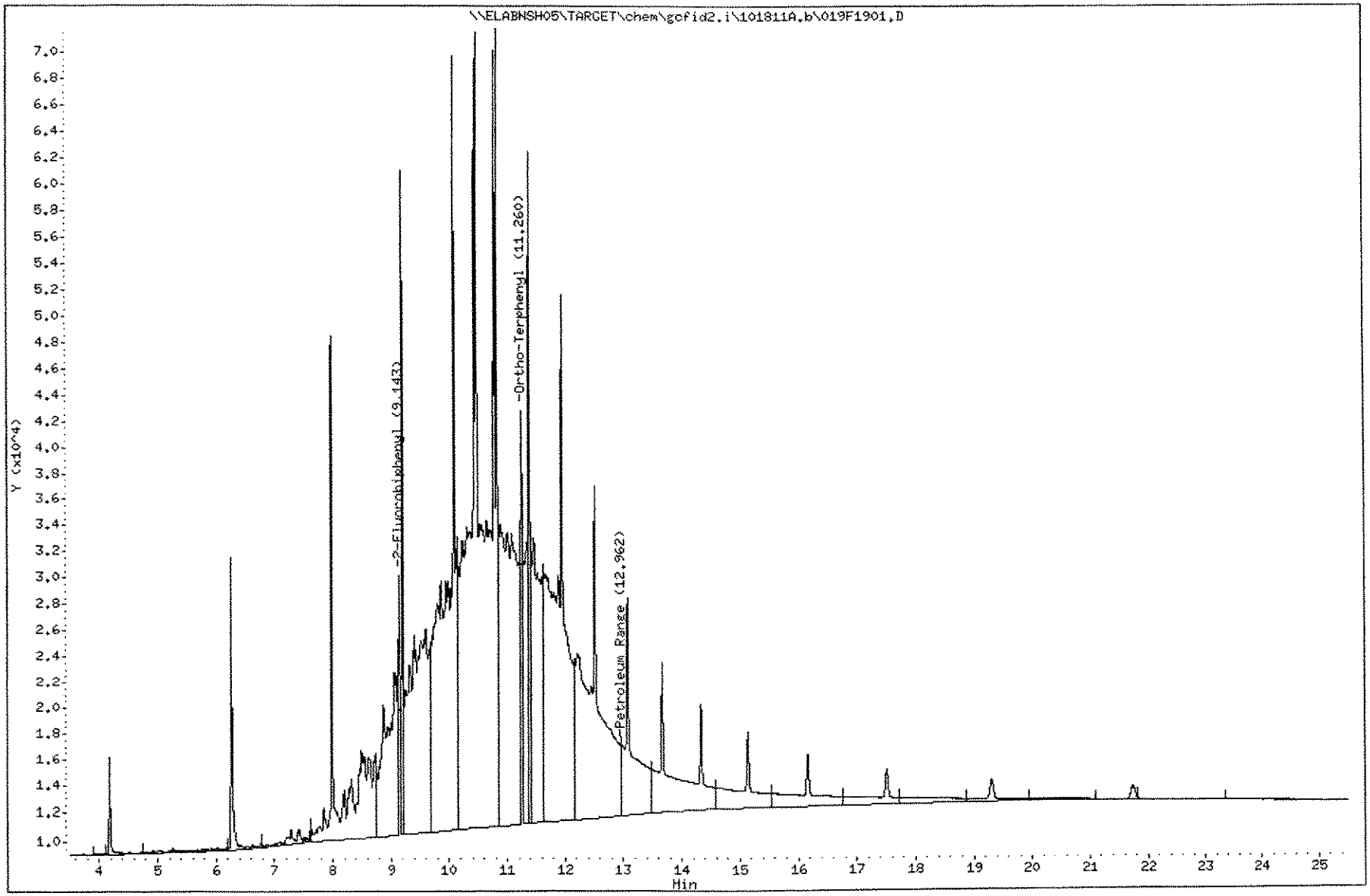
Column phase: ZB-5ms

Instrument: gcfid2.i

Operator: CAT
Column diameter: 0.32

a,b,c

10/20/11



1095

1110003

Laboratory Name

Cat 10/24/11

Data file : \\ELABNSH05\TARGET\chem\gcfid2.i\101811A.b\020F2001.D
Lab Smp Id: 1J07001-MSD1@2
Inj Date : 19-OCT-2011 02:40
Operator : CAT Inst ID: gcfid2.i
Smp Info : 1J07001-MSD1@2
Misc Info :
Comment :
Method : \\ELABNSH05\TARGET\chem\gcfid2.i\101811A.b\FLPROF.m
Meth Date : 19-Oct-2011 13:48 pcormier Quant Type: ESTD
Cal Date : 23-DEC-2008 17:56 Cal File: 004R0201.D
Als bottle: 20
Dil Factor: 2.00000
Integrator: Falcon Compound Sublist: PROSURR.sub
Target Version: 4.04
Processing Host: TARGET19_VM

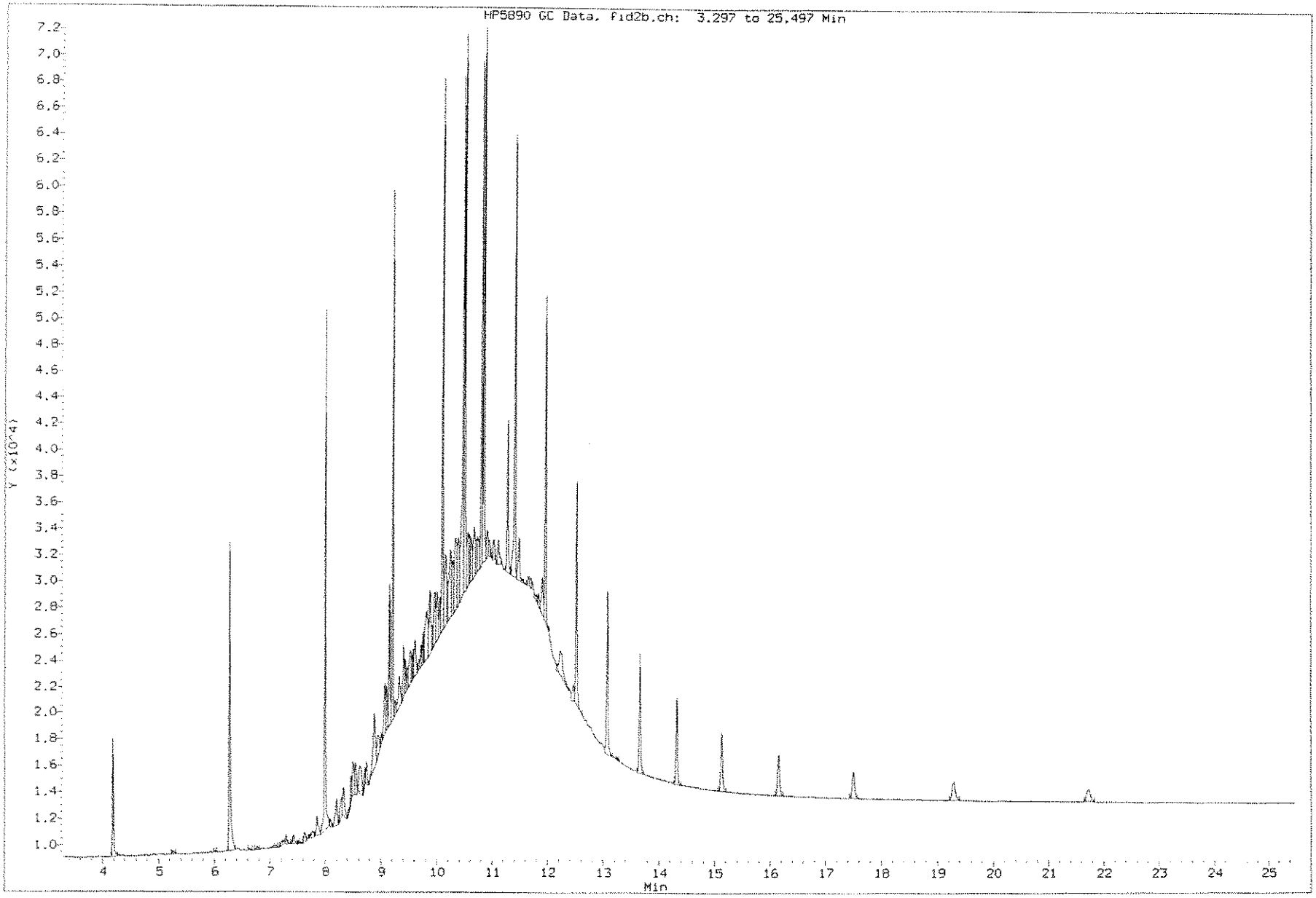
Compounds	RT	EXP RT	DLT RT	RESPONSE	CONCENTRATIONS ON-COLUMN (mg/L)	FINAL (mg/L)
S 1 Petroleum Range	4.113-21.810			5170248	7229.81	14460(M)
$ 2 2-Fluorobiphenyl	9.143	9.150	-0.007	13128	19.6852	19.68(RM)
$ 3 Ortho-Terphenyl	11.256	11.263	-0.007	16432	13.9176	13.92(RM)

QC Flag Legend

R - Spike/Surrogate failed recovery limits.
M - Compound response manually integrated.

10/20/11

Data File: \\ELABNSHO5\TARGET\chem\gcfid2.i\101811A.b\020F2001.D
Injection Date: 19-OCT-2011 02:40
Instrument: gcfid2.i
Client Sample ID:



1097

1110003

Data File: \\ELABNSH05\TARGET\chem\gcfid2.i\101811A.b\020F2001.D
Date : 19-OCT-2011 02:40
Client ID:
Sample Info: 1J07001-MSD1@2

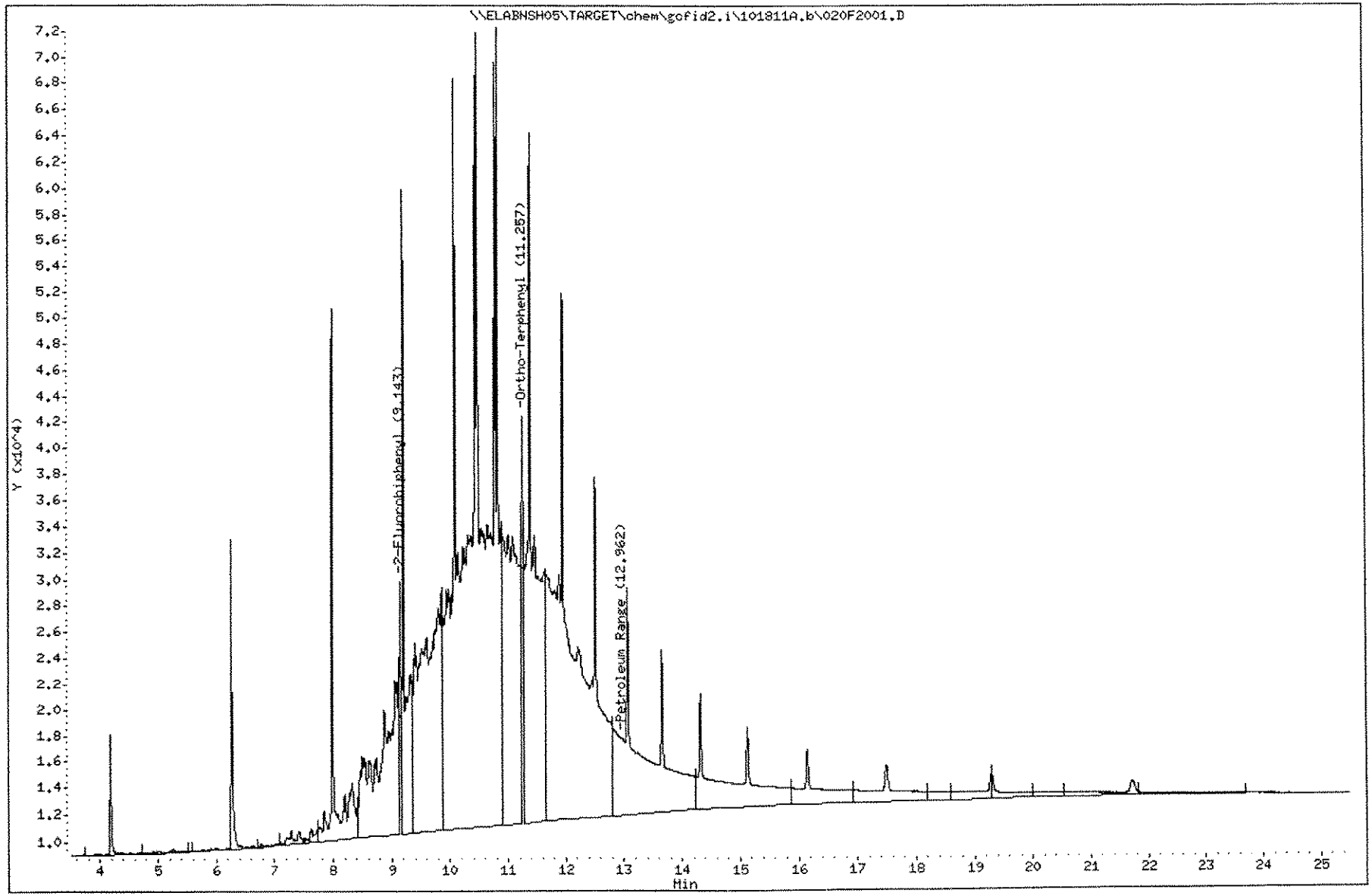
Column phase: ZB-5ms

Instrument: gcfid2.i

Operator: CAT
Column diameter: 0.32

a,b,c

10/20/11



1098

1110003

Laboratory Name

Cat 10/24/11

CONTINUING CALIBRATION COMPOUNDS

Instrument ID: gcfid2.i Injection Date: 19-OCT-2011 03:13
Lab File ID: 021F2101.D Init. Cal. Date(s): 16-MAR-2007 14-OCT-2011
Analysis Type: Init. Cal. Times: 10:21 12:05
Lab Sample ID: SEQ-CCV2 Quant Type: ESTD
Method: \\ELABNSH05\TARGET\chem\gcfid2.i\101811A.b\FLPROF.m

COMPOUND	RRF	RF4250	MIN RRF	%D	MAX %D	
$ 1 Petroleum Range	715	¥ 629	0.010	-12.0	25.0	
$ 2 2-Fluorobiphenyl	25.00000	*32.15153	0.010	-28.6	25.0	<-
$ 3 Ortho-Terphenyl	1181	1280	0.010	8.4	25.0	

10/20/11

Cat 10/24/11

Laboratory Name

Data file : \\ELABNSH05\TARGET\chem\gcfid2.i\101811A.b\021F2101.D
Lab Smp Id: SEQ-CCV2
Inj Date : 19-OCT-2011 03:13
Operator : CAT Inst ID: gcfid2.i
Smp Info : SEQ-CCV2
Misc Info :
Comment :
Method : \\ELABNSH05\TARGET\chem\gcfid2.i\101811A.b\FLPROF.m
Meth Date : 19-Oct-2011 13:49 pcormier Quant Type: ESTD
Cal Date : 23-DEC-2008 17:56 Cal File: 004R0201.D
Als bottle: 21 Continuing Calibration Sample
Dil Factor: 1.00000
Integrator: Falcon Compound Sublist: PROSURR.sub
Target Version: 4.04
Processing Host: TARGET19_VM

Compounds	RT	EXP RT	DLT RT	RESPONSE	AMOUNTS CAL-AMT (mg/L)	AMOUNTS ON-COL (mg/L)
S 1 Petroleum Range	4.113-21.810			2673177	4250.00	3738
$ 2 2-Fluorobiphenyl	9.150	9.150	0.000	26251	25.0000	32.15 *
$ 3 Ortho-Terphenyl	11.270	11.263	0.007	32003	25.0000	27.10

10/20/11

Data File: \\ELABNSH05\TARGET\chem\gcfid2.i\101811A.b\021F2101.D

Date : 19-OCT-2011 03:13

Client ID:

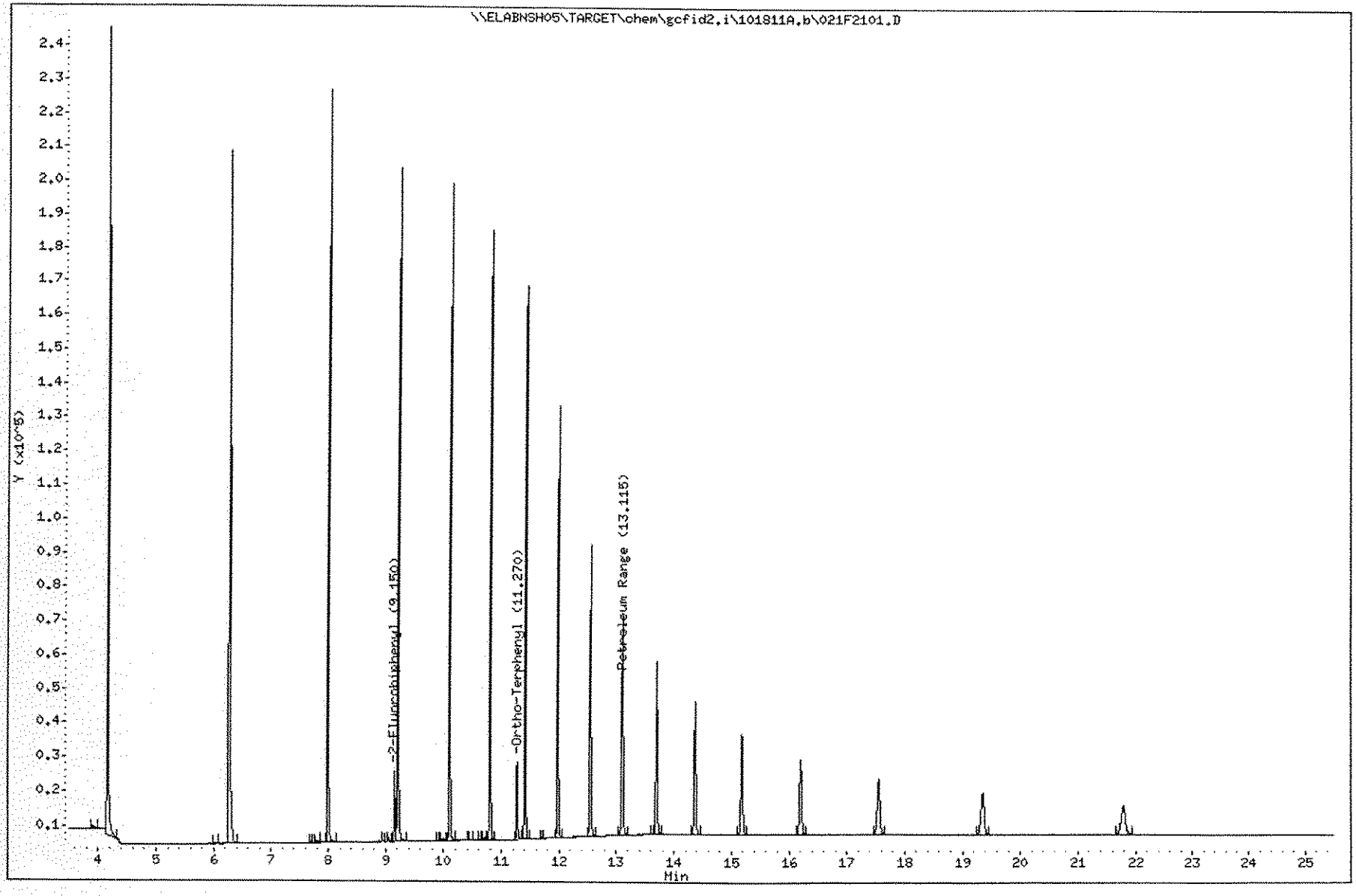
Sample Info: SEQ-CCV2

Column phase: ZB-5ms

Instrument: gcfid2.i

Operator: CAT

Column diameter: 0.32



1101

1110003

PREPARATION BENCH SHEET

1J07001

Empirical Laboratories, LLC **Printed: 11/1/2011 12:49:58PM**

Instrument:

Matrix: Water **Prepared using: EXT - EXT_3510** **Surrogate used: 11H0444**

Lab Number	Cont ID	Analysis	Prepared	Initial (mL)	Final (mL)	Spike ID	Source ID	ul Spike	ul Surrogate	PH	Extraction Comments
1110003-01RE1	K	SGC_FLPRO_3510C	10/07/2011	1080	2				1000	NA	Re-extract added 10/7/2011 by DMG
1110003-03RE1	J	SGC_FLPRO_3510C	10/07/2011	1070	2				1000	NA	Re-extract added 10/7/2011 by DMG
1110003-05RE1	K	SGC_FLPRO_3510C	10/07/2011	1080	2				1000	NA	Re-extract added 10/7/2011 by DMG
1110003-07RE1	J	SGC_FLPRO_3510C	10/07/2011	1080	2				1000	NA	Re-extract added 10/7/2011 by DMG
1110003-09RE1	K	SGC_FLPRO_3510C	10/07/2011	1080	2				1000	NA	Re-extract added 10/7/2011 by DMG
1110003-11RE1	J	SGC_FLPRO_3510C	10/07/2011	1080	2				1000	NA	Re-extract added 10/7/2011 by DMG
1110003-12RE1	AF	SGC_FLPRO_3510C	10/07/2011	1080	2				1000	NA	Re-extract added 10/7/2011 by DMG
1110003-14RE1	J	SGC_FLPRO_3510C	10/07/2011	1080	2				1000	NA	Re-extract added 10/7/2011 by DMG
1J07001-BLK1		QC	10/07/2011	1000	2				1000	NA	
1J07001-BS1		QC	10/07/2011	1000	2	11I0383		1000	1000	NA	
1J07001-MS1		QC	10/07/2011	1080	2	11I0383	1110003-12RE1	1000	1000	NA	
1J07001-MSD1		QC	10/07/2011	1080	2	11I0383	1110003-12RE1	1000	1000	NA	

Reagents Used:

Standard	Description
10J0085	Silica Gel for FLPRO
11I0738	Methylene Chloride
11I0761	Sodium Sulfate Anhydrous

Spiking Witnessed By Date

Preparation Reviewed By Date

Extracts Received By Date

1102

1110003

Data for SW6010C / SW7470A Forms

ANALYSIS DATA SHEET

FLC-4-MW01-092911

Laboratory:	Empirical Laboratories, LLC	SDG:	1110003
Client:	Tetra Tech NUS, Inc. (T010)	Project:	Navy Fuel Depot CTO JM46
Matrix:	Water	Laboratory ID:	1110003-01
Sampled:	09/29/11 08:20	Received:	10/01/11 09:10
% Solids:	0.00		

CAS NO.	Analyte	Conc. (ug/L)	DL	LOD	LOQ	D.F.	Q	Method	Batch	Analyzed
7439-97-6	Mercury		0.0800	0.200	0.200	1	U	SW7470A	1J13024	10/14/11 13:36

ANALYSIS DATA SHEET

FLC-4-MW01-092911

Laboratory:	Empirical Laboratories, LLC	SDG:	1110003
Client:	Tetra Tech NUS, Inc. (T010)	Project:	Navy Fuel Depot CTO JM46
Matrix:	Water	Laboratory ID:	1110003-02
Sampled:	09/29/11 08:20	Received:	10/01/11 09:10
% Solids:	0.00		

CAS NO.	Analyte	Conc. (ug/L)	DL	LOD	LOQ	D.F.	Q	Method	Batch	Analyzed
7439-97-6	Mercury (dissolved)		0.0800	0.200	0.200	1	U	SW7470A	1J13024	10/14/11 13:37

ANALYSIS DATA SHEET

FLC-4-MW02-092911

Laboratory:	Empirical Laboratories, LLC	SDG:	1110003
Client:	Tetra Tech NUS, Inc. (T010)	Project:	Navy Fuel Depot CTO JM46
Matrix:	Water	Laboratory ID:	1110003-03
Sampled:	09/29/11 09:30	Received:	10/01/11 09:10
% Solids:	0.00		

CAS NO.	Analyte	Conc. (ug/L)	DL	LOD	LOQ	D.F.	Q	Method	Batch	Analyzed
7439-97-6	Mercury		0.0800	0.200	0.200	1	U	SW7470A	1J13024	10/14/11 13:38

ANALYSIS DATA SHEET

FLC-4-MW02-092911

Laboratory:	Empirical Laboratories, LLC	SDG:	1110003
Client:	Tetra Tech NUS, Inc. (T010)	Project:	Navy Fuel Depot CTO JM46
Matrix:	Water	Laboratory ID:	1110003-04
Sampled:	09/29/11 09:30	Received:	10/01/11 09:10
% Solids:	0.00		

CAS NO.	Analyte	Conc. (ug/L)	DL	LOD	LOQ	D.F.	Q	Method	Batch	Analyzed
7439-97-6	Mercury (dissolved)		0.0800	0.200	0.200	1	U	SW7470A	1J13024	10/14/11 13:39

ANALYSIS DATA SHEET

FLC-5-MW05-092911

Laboratory:	Empirical Laboratories, LLC	SDG:	1110003
Client:	Tetra Tech NUS, Inc. (T010)	Project:	Navy Fuel Depot CTO JM46
Matrix:	Water	Laboratory ID:	1110003-05
Sampled:	09/29/11 11:25	Received:	10/01/11 09:10
% Solids:	0.00		

CAS NO.	Analyte	Conc. (ug/L)	DL	LOD	LOQ	D.F.	Q	Method	Batch	Analyzed
7439-97-6	Mercury		0.0800	0.200	0.200	1	U	SW7470A	1J13024	10/14/11 13:41

ANALYSIS DATA SHEET

FLC-5-MW05-092911

Laboratory:	Empirical Laboratories, LLC	SDG:	1110003
Client:	Tetra Tech NUS, Inc. (T010)	Project:	Navy Fuel Depot CTO JM46
Matrix:	Water	Laboratory ID:	1110003-06
Sampled:	09/29/11 11:25	Received:	10/01/11 09:10
% Solids:	0.00		

CAS NO.	Analyte	Conc. (ug/L)	DL	LOD	LOQ	D.F.	Q	Method	Batch	Analyzed
7439-97-6	Mercury (dissolved)		0.0800	0.200	0.200	1	U	SW7470A	1J13024	10/14/11 13:42

ANALYSIS DATA SHEET

FLC-5-MW04-092911

Laboratory:	Empirical Laboratories, LLC	SDG:	1110003
Client:	Tetra Tech NUS, Inc. (T010)	Project:	Navy Fuel Depot CTO JM46
Matrix:	Water	Laboratory ID:	1110003-07
Sampled:	09/29/11 12:50	Received:	10/01/11 09:10
% Solids:	0.00		

CAS NO.	Analyte	Conc. (ug/L)	DL	LOD	LOQ	D.F.	Q	Method	Batch	Analyzed
7439-97-6	Mercury		0.0800	0.200	0.200	1	U	SW7470A	1J13024	10/14/11 13:43

ANALYSIS DATA SHEET

FLC-5-MW04-092911

Laboratory:	Empirical Laboratories, LLC	SDG:	1110003
Client:	Tetra Tech NUS, Inc. (T010)	Project:	Navy Fuel Depot CTO JM46
Matrix:	Water	Laboratory ID:	1110003-08
Sampled:	09/29/11 12:50	Received:	10/01/11 09:10
% Solids:	0.00		

CAS NO.	Analyte	Conc. (ug/L)	DL	LOD	LOQ	D.F.	Q	Method	Batch	Analyzed
7439-97-6	Mercury (dissolved)		0.0800	0.200	0.200	1	U	SW7470A	1J13024	10/14/11 13:44

ANALYSIS DATA SHEET

FLC-5-MW03-092911

Laboratory:	Empirical Laboratories, LLC	SDG:	1110003
Client:	Tetra Tech NUS, Inc. (T010)	Project:	Navy Fuel Depot CTO JM46
Matrix:	Water	Laboratory ID:	1110003-09
Sampled:	09/29/11 14:00	Received:	10/01/11 09:10
% Solids:	0.00		

CAS NO.	Analyte	Conc. (ug/L)	DL	LOD	LOQ	D.F.	Q	Method	Batch	Analyzed
7439-97-6	Mercury		0.0800	0.200	0.200	1	U	SW7470A	1J13024	10/14/11 13:45

ANALYSIS DATA SHEET

FLC-5-MW03-092911

Laboratory:	Empirical Laboratories, LLC	SDG:	1110003
Client:	Tetra Tech NUS, Inc. (T010)	Project:	Navy Fuel Depot CTO JM46
Matrix:	Water	Laboratory ID:	1110003-10
Sampled:	09/29/11 14:00	Received:	10/01/11 09:10
% Solids:	0.00		

CAS NO.	Analyte	Conc. (ug/L)	DL	LOD	LOQ	D.F.	Q	Method	Batch	Analyzed
7439-97-6	Mercury (dissolved)		0.0800	0.200	0.200	1	U	SW7470A	1J13025	10/14/11 13:48

ANALYSIS DATA SHEET

FLC-RB02-092911

Laboratory:	Empirical Laboratories, LLC	SDG:	1110003
Client:	Tetra Tech NUS, Inc. (T010)	Project:	Navy Fuel Depot CTO JM46
Matrix:	Water	Laboratory ID:	1110003-11
Sampled:	09/29/11 14:35	Received:	10/01/11 09:10
% Solids:	0.00		

CAS NO.	Analyte	Conc. (ug/L)	DL	LOD	LOQ	D.F.	Q	Method	Batch	Analyzed
7439-97-6	Mercury		0.0800	0.200	0.200	1	U	SW7470A	1J13025	10/14/11 13:49

ANALYSIS DATA SHEET

FLC-5-MW01-092911

Laboratory:	Empirical Laboratories, LLC	SDG:	1110003
Client:	Tetra Tech NUS, Inc. (T010)	Project:	Navy Fuel Depot CTO JM46
Matrix:	Water	Laboratory ID:	1110003-12
Sampled:	09/30/11 09:15	Received:	10/01/11 09:10
% Solids:	0.00		

CAS NO.	Analyte	Conc. (ug/L)	DL	LOD	LOQ	D.F.	Q	Method	Batch	Analyzed
7439-97-6	Mercury		0.0800	0.200	0.200	1	U	SW7470A	1J13025	10/14/11 13:50

ANALYSIS DATA SHEET

FLC-5-MW01-092911

Laboratory:	Empirical Laboratories, LLC	SDG:	1110003
Client:	Tetra Tech NUS, Inc. (T010)	Project:	Navy Fuel Depot CTO JM46
Matrix:	Water	Laboratory ID:	1110003-13
Sampled:	09/30/11 09:15	Received:	10/01/11 09:10
% Solids:	0.00		

CAS NO.	Analyte	Conc. (ug/L)	DL	LOD	LOQ	D.F.	Q	Method	Batch	Analyzed
7439-97-6	Mercury (dissolved)		0.0800	0.200	0.200	1	U	SW7470A	1J13025	10/14/11 13:55

ANALYSIS DATA SHEET

FLC-5-MW02-092911

Laboratory:	Empirical Laboratories, LLC	SDG:	1110003
Client:	Tetra Tech NUS, Inc. (T010)	Project:	Navy Fuel Depot CTO JM46
Matrix:	Water	Laboratory ID:	1110003-14
Sampled:	09/30/11 11:05	Received:	10/01/11 09:10
% Solids:	0.00		

CAS NO.	Analyte	Conc. (ug/L)	DL	LOD	LOQ	D.F.	Q	Method	Batch	Analyzed
7439-97-6	Mercury		0.0800	0.200	0.200	1	U	SW7470A	1J13025	10/14/11 13:58

ANALYSIS DATA SHEET

FLC-5-MW02-092911

Laboratory:	Empirical Laboratories, LLC	SDG:	1110003
Client:	Tetra Tech NUS, Inc. (T010)	Project:	Navy Fuel Depot CTO JM46
Matrix:	Water	Laboratory ID:	1110003-15
Sampled:	09/30/11 11:05	Received:	10/01/11 09:10
% Solids:	0.00		

CAS NO.	Analyte	Conc. (ug/L)	DL	LOD	LOQ	D.F.	Q	Method	Batch	Analyzed
7439-97-6	Mercury (dissolved)		0.0800	0.200	0.200	1	U	SW7470A	1J13025	10/14/11 13:59

ANALYSIS DATA SHEET

FLC-4-MW01-092911

Laboratory:	Empirical Laboratories, LLC	SDG:	1110003
Client:	Tetra Tech NUS, Inc. (T010)	Project:	Navy Fuel Depot CTO JM46
Matrix:	Water	Laboratory ID:	1110003-17
Sampled:	09/29/11 08:20	Received:	10/01/11 09:10
% Solids:	0.00		

CAS NO.	Analyte	Conc. (ug/L)	DL	LOD	LOQ	D.F.	Q	Method	Batch	Analyzed
7440-36-0	Antimony		2.50	4.00	5.00	2	X U	SW6010C	1K08018	11/11/11 19:47
7440-38-2	Arsenic	4.93	1.50	3.00	5.00	2	D I	SW6010C	1K08018	11/11/11 19:47
7440-39-3	Barium	8.83	2.50	5.00	20.0	2	D I	SW6010C	1K08018	11/11/11 19:47
7440-41-7	Beryllium		0.500	1.00	2.50	2	U	SW6010C	1K08018	11/11/11 19:47
7440-43-9	Cadmium		0.500	1.00	2.50	2	U	SW6010C	1K08018	11/11/11 19:47
7440-47-3	Chromium		1.00	2.00	5.00	2	U	SW6010C	1K08018	11/11/11 19:47
7440-50-8	Copper		2.50	4.00	5.00	2	U	SW6010C	1K08018	11/11/11 19:47
7439-92-1	Lead		0.750	1.50	1.50	2	U	SW6010C	1K08018	11/11/11 19:47
7440-02-0	Nickel		1.50	3.00	5.00	2	U	SW6010C	1K08018	11/11/11 19:47
7782-49-2	Selenium		1.50	2.50	5.00	2	UN	SW6010C	1K08018	11/11/11 19:47
7440-22-4	Silver		0.500	1.00	5.00	2	U	SW6010C	1K08018	11/11/11 19:47
7440-28-0	Thallium		1.50	2.00	4.00	2	U	SW6010C	1K08018	11/11/11 19:47
7440-31-5	Tin		5.00	10.0	15.0	2	U	SW6010C	1K08018	11/11/11 19:47
7440-66-6	Zinc		2.50	5.00	10.0	2	U	SW6010C	1K08018	11/11/11 19:47

ANALYSIS DATA SHEET

FLC-4-MW01-092911

Laboratory:	Empirical Laboratories, LLC	SDG:	1110003
Client:	Tetra Tech NUS, Inc. (T010)	Project:	Navy Fuel Depot CTO JM46
Matrix:	Water	Laboratory ID:	1110003-18
Sampled:	09/29/11 08:20	Received:	10/01/11 09:10
% Solids:	0.00		

CAS NO.	Analyte	Conc. (ug/L)	DL	LOD	LOQ	D.F.	Q	Method	Batch	Analyzed
7440-36-0	Antimony (dissolved)		2.50	4.00	5.00	2	X U	SW6010C	1K08018	11/11/11 19:52
7440-38-2	Arsenic (dissolved)	4.35	1.50	3.00	5.00	2	D I	SW6010C	1K08018	11/11/11 19:52
7440-39-3	Barium (dissolved)	8.32	2.50	5.00	20.0	2	D I	SW6010C	1K08018	11/11/11 19:52
7440-41-7	Beryllium (dissolved)		0.500	1.00	2.50	2	U	SW6010C	1K08018	11/11/11 19:52
7440-43-9	Cadmium (dissolved)		0.500	1.00	2.50	2	U	SW6010C	1K08018	11/11/11 19:52
7440-47-3	Chromium (dissolved)		1.00	2.00	5.00	2	U	SW6010C	1K08018	11/11/11 19:52
7440-50-8	Copper (dissolved)		2.50	4.00	5.00	2	U	SW6010C	1K08018	11/11/11 19:52
7439-92-1	Lead (dissolved)		0.750	1.50	1.50	2	U	SW6010C	1K08018	11/11/11 19:52
7440-02-0	Nickel (dissolved)		1.50	3.00	5.00	2	U	SW6010C	1K08018	11/11/11 19:52
7782-49-2	Selenium (dissolved)		1.50	2.50	5.00	2	UN	SW6010C	1K08018	11/11/11 19:52
7440-22-4	Silver (dissolved)		0.500	1.00	5.00	2	U	SW6010C	1K08018	11/11/11 19:52
7440-28-0	Thallium (dissolved)		1.50	2.00	4.00	2	U	SW6010C	1K08018	11/11/11 19:52
7440-31-5	Tin (dissolved)		5.00	10.0	15.0	2	U	SW6010C	1K08018	11/11/11 19:52
7440-66-6	Zinc (dissolved)		2.50	5.00	10.0	2	U	SW6010C	1K08018	11/11/11 19:52

ANALYSIS DATA SHEET

FLC-4-MW02-092911

Laboratory: Empirical Laboratories, LLC
Client: Tetra Tech NUS, Inc. (T010)
Matrix: Water
Sampled: 09/29/11 09:30
% Solids: 0.00

SDG: 1110003
Project: Navy Fuel Depot CTO JM46
Laboratory ID: 1110003-19
Received: 10/01/11 09:10

CAS NO.	Analyte	Conc. (ug/L)	DL	LOD	LOQ	D.F.	Q	Method	Batch	Analyzed
7440-36-0	Antimony		2.50	4.00	5.00	2	X U	SW6010C	1K08018	11/11/11 19:56
7440-38-2	Arsenic	5.88	1.50	3.00	5.00	2	D	SW6010C	1K08018	11/11/11 19:56
7440-39-3	Barium	6.70	2.50	5.00	20.0	2	D I	SW6010C	1K08018	11/11/11 19:56
7440-41-7	Beryllium		0.500	1.00	2.50	2	U	SW6010C	1K08018	11/11/11 19:56
7440-43-9	Cadmium		0.500	1.00	2.50	2	U	SW6010C	1K08018	11/11/11 19:56
7440-47-3	Chromium		1.00	2.00	5.00	2	U	SW6010C	1K08018	11/11/11 19:56
7440-50-8	Copper		2.50	4.00	5.00	2	U	SW6010C	1K08018	11/11/11 19:56
7439-92-1	Lead		0.750	1.50	1.50	2	U	SW6010C	1K08018	11/11/11 19:56
7440-02-0	Nickel		1.50	3.00	5.00	2	U	SW6010C	1K08018	11/11/11 19:56
7782-49-2	Selenium		1.50	2.50	5.00	2	UN	SW6010C	1K08018	11/11/11 19:56
7440-22-4	Silver		0.500	1.00	5.00	2	U	SW6010C	1K08018	11/11/11 19:56
7440-28-0	Thallium		1.50	2.00	4.00	2	U	SW6010C	1K08018	11/11/11 19:56
7440-31-5	Tin		5.00	10.0	15.0	2	U	SW6010C	1K08018	11/11/11 19:56
7440-66-6	Zinc		2.50	5.00	10.0	2	U	SW6010C	1K08018	11/11/11 19:56

ANALYSIS DATA SHEET

FLC-4-MW02-092911

Laboratory: Empirical Laboratories, LLC
Client: Tetra Tech NUS, Inc. (T010)
Matrix: Water
Sampled: 09/29/11 09:30
% Solids: 0.00

SDG: 1110003
Project: Navy Fuel Depot CTO JM46
Laboratory ID: 1110003-20
Received: 10/01/11 09:10

CAS NO.	Analyte	Conc. (ug/L)	DL	LOD	LOQ	D.F.	Q	Method	Batch	Analyzed
7440-36-0	Antimony (dissolved)		2.50	4.00	5.00	2	X U	SW6010C	1K08018	11/11/11 20:01
7440-38-2	Arsenic (dissolved)	4.63	1.50	3.00	5.00	2	D I	SW6010C	1K08018	11/11/11 20:01
7440-39-3	Barium (dissolved)	6.28	2.50	5.00	20.0	2	D I	SW6010C	1K08018	11/11/11 20:01
7440-41-7	Beryllium (dissolved)		0.500	1.00	2.50	2	U	SW6010C	1K08018	11/11/11 20:01
7440-43-9	Cadmium (dissolved)		0.500	1.00	2.50	2	U	SW6010C	1K08018	11/11/11 20:01
7440-47-3	Chromium (dissolved)		1.00	2.00	5.00	2	U	SW6010C	1K08018	11/11/11 20:01
7440-50-8	Copper (dissolved)		2.50	4.00	5.00	2	U	SW6010C	1K08018	11/11/11 20:01
7439-92-1	Lead (dissolved)		0.750	1.50	1.50	2	U	SW6010C	1K08018	11/11/11 20:01
7440-02-0	Nickel (dissolved)		1.50	3.00	5.00	2	U	SW6010C	1K08018	11/11/11 20:01
7782-49-2	Selenium (dissolved)		1.50	2.50	5.00	2	UN	SW6010C	1K08018	11/11/11 20:01
7440-22-4	Silver (dissolved)		0.500	1.00	5.00	2	U	SW6010C	1K08018	11/11/11 20:01
7440-28-0	Thallium (dissolved)		1.50	2.00	4.00	2	U	SW6010C	1K08018	11/11/11 20:01
7440-31-5	Tin (dissolved)		5.00	10.0	15.0	2	U	SW6010C	1K08018	11/11/11 20:01
7440-66-6	Zinc (dissolved)		2.50	5.00	10.0	2	U	SW6010C	1K08018	11/11/11 20:01

ANALYSIS DATA SHEET

FLC-5-MW05-092911

Laboratory:	Empirical Laboratories, LLC	SDG:	1110003
Client:	Tetra Tech NUS, Inc. (T010)	Project:	Navy Fuel Depot CTO JM46
Matrix:	Water	Laboratory ID:	1110003-21
Sampled:	09/29/11 11:25	Received:	10/01/11 09:10
% Solids:	0.00		

CAS NO.	Analyte	Conc. (ug/L)	DL	LOD	LOQ	D.F.	Q	Method	Batch	Analyzed
7440-36-0	Antimony		2.50	4.00	5.00	2	X U	SW6010C	1K08018	11/11/11 20:05
7440-38-2	Arsenic	4.03	1.50	3.00	5.00	2	D I	SW6010C	1K08018	11/11/11 20:05
7440-39-3	Barium	55.7	2.50	5.00	20.0	2	D	SW6010C	1K08018	11/11/11 20:05
7440-41-7	Beryllium		0.500	1.00	2.50	2	U	SW6010C	1K08018	11/11/11 20:05
7440-43-9	Cadmium		0.500	1.00	2.50	2	U	SW6010C	1K08018	11/11/11 20:05
7440-47-3	Chromium	15.8	1.00	2.00	5.00	2	D	SW6010C	1K08018	11/11/11 20:05
7440-50-8	Copper	3.24	2.50	4.00	5.00	2	D I	SW6010C	1K08018	11/11/11 20:05
7439-92-1	Lead	6.89	0.750	1.50	1.50	2	D	SW6010C	1K08018	11/11/11 20:05
7440-02-0	Nickel	10.1	1.50	3.00	5.00	2	D	SW6010C	1K08018	11/11/11 20:05
7782-49-2	Selenium		1.50	2.50	5.00	2	UN	SW6010C	1K08018	11/11/11 20:05
7440-22-4	Silver		0.500	1.00	5.00	2	U	SW6010C	1K08018	11/11/11 20:05
7440-28-0	Thallium		1.50	2.00	4.00	2	U	SW6010C	1K08018	11/11/11 20:05
7440-31-5	Tin		5.00	10.0	15.0	2	U	SW6010C	1K08018	11/11/11 20:05
7440-66-6	Zinc	14.7	2.50	5.00	10.0	2	D	SW6010C	1K08018	11/11/11 20:05

ANALYSIS DATA SHEET

FLC-5-MW05-092911

Laboratory: Empirical Laboratories, LLC
Client: Tetra Tech NUS, Inc. (T010)
Matrix: Water
Sampled: 09/29/11 11:25
% Solids: 0.00

SDG: 1110003
Project: Navy Fuel Depot CTO JM46
Laboratory ID: 1110003-22
Received: 10/01/11 09:10

CAS NO.	Analyte	Conc. (ug/L)	DL	LOD	LOQ	D.F.	Q	Method	Batch	Analyzed
7440-36-0	Antimony (dissolved)		2.50	4.00	5.00	2	X U	SW6010C	1K08018	11/11/11 20:10
7440-38-2	Arsenic (dissolved)	2.89	1.50	3.00	5.00	2	D I	SW6010C	1K08018	11/11/11 20:10
7440-39-3	Barium (dissolved)	37.6	2.50	5.00	20.0	2	D	SW6010C	1K08018	11/11/11 20:10
7440-41-7	Beryllium (dissolved)		0.500	1.00	2.50	2	U	SW6010C	1K08018	11/11/11 20:10
7440-43-9	Cadmium (dissolved)		0.500	1.00	2.50	2	U	SW6010C	1K08018	11/11/11 20:10
7440-47-3	Chromium (dissolved)	1.30	1.00	2.00	5.00	2	D I	SW6010C	1K08018	11/11/11 20:10
7440-50-8	Copper (dissolved)		2.50	4.00	5.00	2	U	SW6010C	1K08018	11/11/11 20:10
7439-92-1	Lead (dissolved)		0.750	1.50	1.50	2	U	SW6010C	1K08018	11/11/11 20:10
7440-02-0	Nickel (dissolved)	8.94	1.50	3.00	5.00	2	D	SW6010C	1K08018	11/11/11 20:10
7782-49-2	Selenium (dissolved)		1.50	2.50	5.00	2	UN	SW6010C	1K08018	11/11/11 20:10
7440-22-4	Silver (dissolved)		0.500	1.00	5.00	2	U	SW6010C	1K08018	11/11/11 20:10
7440-28-0	Thallium (dissolved)		1.50	2.00	4.00	2	U	SW6010C	1K08018	11/11/11 20:10
7440-31-5	Tin (dissolved)		5.00	10.0	15.0	2	U	SW6010C	1K08018	11/11/11 20:10
7440-66-6	Zinc (dissolved)	11.8	2.50	5.00	10.0	2	D	SW6010C	1K08018	11/11/11 20:10

ANALYSIS DATA SHEET

FLC-5-MW04-092911

Laboratory: Empirical Laboratories, LLC
Client: Tetra Tech NUS, Inc. (T010)
Matrix: Water
Sampled: 09/29/11 12:50
% Solids: 0.00

SDG: 1110003
Project: Navy Fuel Depot CTO JM46
Laboratory ID: 1110003-23
Received: 10/01/11 09:10

CAS NO.	Analyte	Conc. (ug/L)	DL	LOD	LOQ	D.F.	Q	Method	Batch	Analyzed
7440-36-0	Antimony		2.50	4.00	5.00	2	X U	SW6010C	1K08018	11/11/11 20:14
7440-38-2	Arsenic		1.50	3.00	5.00	2	U	SW6010C	1K08018	11/11/11 20:14
7440-39-3	Barium	109	2.50	5.00	20.0	2	D	SW6010C	1K08018	11/11/11 20:14
7440-41-7	Beryllium		0.500	1.00	2.50	2	U	SW6010C	1K08018	11/11/11 20:14
7440-43-9	Cadmium		0.500	1.00	2.50	2	U	SW6010C	1K08018	11/11/11 20:14
7440-47-3	Chromium	1.85	1.00	2.00	5.00	2	D I	SW6010C	1K08018	11/11/11 20:14
7440-50-8	Copper		2.50	4.00	5.00	2	U	SW6010C	1K08018	11/11/11 20:14
7439-92-1	Lead		0.750	1.50	1.50	2	U	SW6010C	1K08018	11/11/11 20:14
7440-02-0	Nickel	1.55	1.50	3.00	5.00	2	D I	SW6010C	1K08018	11/11/11 20:14
7782-49-2	Selenium		1.50	2.50	5.00	2	UN	SW6010C	1K08018	11/11/11 20:14
7440-22-4	Silver		0.500	1.00	5.00	2	U	SW6010C	1K08018	11/11/11 20:14
7440-28-0	Thallium		1.50	2.00	4.00	2	U	SW6010C	1K08018	11/11/11 20:14
7440-31-5	Tin		5.00	10.0	15.0	2	U	SW6010C	1K08018	11/11/11 20:14
7440-66-6	Zinc	5.90	2.50	5.00	10.0	2	D I	SW6010C	1K08018	11/11/11 20:14

ANALYSIS DATA SHEET

FLC-5-MW04-092911

Laboratory: Empirical Laboratories, LLC
Client: Tetra Tech NUS, Inc. (T010)
Matrix: Water
Sampled: 09/29/11 12:50
% Solids: 0.00

SDG: 1110003
Project: Navy Fuel Depot CTO JM46
Laboratory ID: 1110003-24
Received: 10/01/11 09:10

CAS NO.	Analyte	Conc. (ug/L)	DL	LOD	LOQ	D.F.	Q	Method	Batch	Analyzed
7440-36-0	Antimony (dissolved)		2.50	4.00	5.00	2	X U	SW6010C	1K08018	11/11/11 20:19
7440-38-2	Arsenic (dissolved)		1.50	3.00	5.00	2	U	SW6010C	1K08018	11/11/11 20:19
7440-39-3	Barium (dissolved)	99.8	2.50	5.00	20.0	2	D	SW6010C	1K08018	11/11/11 20:19
7440-41-7	Beryllium (dissolved)		0.500	1.00	2.50	2	U	SW6010C	1K08018	11/11/11 20:19
7440-43-9	Cadmium (dissolved)		0.500	1.00	2.50	2	U	SW6010C	1K08018	11/11/11 20:19
7440-47-3	Chromium (dissolved)		1.00	2.00	5.00	2	U	SW6010C	1K08018	11/11/11 20:19
7440-50-8	Copper (dissolved)		2.50	4.00	5.00	2	U	SW6010C	1K08018	11/11/11 20:19
7439-92-1	Lead (dissolved)		0.750	1.50	1.50	2	U	SW6010C	1K08018	11/11/11 20:19
7440-02-0	Nickel (dissolved)		1.50	3.00	5.00	2	U	SW6010C	1K08018	11/11/11 20:19
7782-49-2	Selenium (dissolved)		1.50	2.50	5.00	2	UN	SW6010C	1K08018	11/11/11 20:19
7440-22-4	Silver (dissolved)		0.500	1.00	5.00	2	U	SW6010C	1K08018	11/11/11 20:19
7440-28-0	Thallium (dissolved)		1.50	2.00	4.00	2	U	SW6010C	1K08018	11/11/11 20:19
7440-31-5	Tin (dissolved)		5.00	10.0	15.0	2	U	SW6010C	1K08018	11/11/11 20:19
7440-66-6	Zinc (dissolved)	5.52	2.50	5.00	10.0	2	D I	SW6010C	1K08018	11/11/11 20:19

ANALYSIS DATA SHEET

FLC-5-MW03-092911

Laboratory: Empirical Laboratories, LLC
Client: Tetra Tech NUS, Inc. (T010)
Matrix: Water
Sampled: 09/29/11 14:00
% Solids: 0.00

SDG: 1110003
Project: Navy Fuel Depot CTO JM46
Laboratory ID: 1110003-25
Received: 10/01/11 09:10

CAS NO.	Analyte	Conc. (ug/L)	DL	LOD	LOQ	D.F.	Q	Method	Batch	Analyzed
7440-36-0	Antimony		6.25	10.0	12.5	5	X U	SW6010C	1K08018	11/11/11 20:37
7440-38-2	Arsenic		3.75	7.50	12.5	5	U	SW6010C	1K08018	11/11/11 20:37
7440-39-3	Barium	24.9	6.25	12.5	50.0	5	D I	SW6010C	1K08018	11/11/11 20:37
7440-41-7	Beryllium		1.25	2.50	6.25	5	U	SW6010C	1K08018	11/11/11 20:37
7440-43-9	Cadmium		1.25	2.50	6.25	5	U	SW6010C	1K08018	11/11/11 20:37
7440-47-3	Chromium	11.2	2.50	5.00	12.5	5	D I	SW6010C	1K08018	11/11/11 20:37
7440-50-8	Copper		6.25	10.0	12.5	5	U	SW6010C	1K08018	11/11/11 20:37
7439-92-1	Lead	5.95	1.88	3.75	3.75	5	D	SW6010C	1K08018	11/11/11 20:37
7440-02-0	Nickel	4.12	3.75	7.50	12.5	5	D I	SW6010C	1K08018	11/11/11 20:37
7782-49-2	Selenium		3.75	6.25	12.5	5	UN	SW6010C	1K08018	11/11/11 20:37
7440-22-4	Silver		1.25	2.50	12.5	5	U	SW6010C	1K08018	11/11/11 20:37
7440-28-0	Thallium		3.75	5.00	10.0	5	U	SW6010C	1K08018	11/11/11 20:37
7440-31-5	Tin		12.5	25.0	37.5	5	U	SW6010C	1K08018	11/11/11 20:37
7440-66-6	Zinc		6.25	12.5	25.0	5	U	SW6010C	1K08018	11/11/11 20:37

ANALYSIS DATA SHEET

FLC-5-MW03-092911

Laboratory: Empirical Laboratories, LLC
Client: Tetra Tech NUS, Inc. (T010)
Matrix: Water
Sampled: 09/29/11 14:00
% Solids: 0.00

SDG: 1110003
Project: Navy Fuel Depot CTO JM46
Laboratory ID: 1110003-26
Received: 10/01/11 09:10

CAS NO.	Analyte	Conc. (ug/L)	DL	LOD	LOQ	D.F.	Q	Method	Batch	Analyzed
7440-36-0	Antimony (dissolved)		2.50	4.00	5.00	2	X U	SW6010C	1K08018	11/11/11 20:41
7440-38-2	Arsenic (dissolved)		1.50	3.00	5.00	2	U	SW6010C	1K08018	11/11/11 20:41
7440-39-3	Barium (dissolved)	7.23	2.50	5.00	20.0	2	D I	SW6010C	1K08018	11/11/11 20:41
7440-41-7	Beryllium (dissolved)		0.500	1.00	2.50	2	U	SW6010C	1K08018	11/11/11 20:41
7440-43-9	Cadmium (dissolved)		0.500	1.00	2.50	2	U	SW6010C	1K08018	11/11/11 20:41
7440-47-3	Chromium (dissolved)	1.04	1.00	2.00	5.00	2	D I	SW6010C	1K08018	11/11/11 20:41
7440-50-8	Copper (dissolved)		2.50	4.00	5.00	2	U	SW6010C	1K08018	11/11/11 20:41
7439-92-1	Lead (dissolved)		0.750	1.50	1.50	2	U	SW6010C	1K08018	11/11/11 20:41
7440-02-0	Nickel (dissolved)		1.50	3.00	5.00	2	U	SW6010C	1K08018	11/11/11 20:41
7782-49-2	Selenium (dissolved)		1.50	2.50	5.00	2	UN	SW6010C	1K08018	11/11/11 20:41
7440-22-4	Silver (dissolved)		0.500	1.00	5.00	2	U	SW6010C	1K08018	11/11/11 20:41
7440-28-0	Thallium (dissolved)		1.50	2.00	4.00	2	U	SW6010C	1K08018	11/11/11 20:41
7440-31-5	Tin (dissolved)		5.00	10.0	15.0	2	U	SW6010C	1K08018	11/11/11 20:41
7440-66-6	Zinc (dissolved)		2.50	5.00	10.0	2	U	SW6010C	1K08018	11/11/11 20:41

ANALYSIS DATA SHEET

FLC-RB02-092911

Laboratory: Empirical Laboratories, LLC
Client: Tetra Tech NUS, Inc. (T010)
Matrix: Water
Sampled: 09/29/11 14:35
% Solids: 0.00

SDG: 1110003
Project: Navy Fuel Depot CTO JM46
Laboratory ID: 1110003-27
Received: 10/01/11 09:10

CAS NO.	Analyte	Conc. (ug/L)	DL	LOD	LOQ	D.F.	Q	Method	Batch	Analyzed
7440-36-0	Antimony		1.25	2.00	2.50	1	X U	SW6010C	1K08018	11/11/11 20:46
7440-38-2	Arsenic		0.750	1.50	2.50	1	U	SW6010C	1K08018	11/11/11 20:46
7440-39-3	Barium		1.25	2.50	10.0	1	U	SW6010C	1K08018	11/11/11 20:46
7440-41-7	Beryllium		0.250	0.500	1.25	1	U	SW6010C	1K08018	11/11/11 20:46
7440-43-9	Cadmium		0.250	0.500	1.25	1	U	SW6010C	1K08018	11/11/11 20:46
7440-47-3	Chromium		0.500	1.00	2.50	1	U	SW6010C	1K08018	11/11/11 20:46
7440-50-8	Copper		1.25	2.00	2.50	1	U	SW6010C	1K08018	11/11/11 20:46
7439-92-1	Lead		0.375	0.750	0.750	1	U	SW6010C	1K08018	11/11/11 20:46
7440-02-0	Nickel		0.750	1.50	2.50	1	U	SW6010C	1K08018	11/11/11 20:46
7782-49-2	Selenium		0.750	1.25	2.50	1	UN	SW6010C	1K08018	11/11/11 20:46
7440-22-4	Silver		0.250	0.500	2.50	1	U	SW6010C	1K08018	11/11/11 20:46
7440-28-0	Thallium		0.750	1.00	2.00	1	U	SW6010C	1K08018	11/11/11 20:46
7440-31-5	Tin		2.50	5.00	7.50	1	U	SW6010C	1K08018	11/11/11 20:46
7440-66-6	Zinc		1.25	2.50	5.00	1	U	SW6010C	1K08018	11/11/11 20:46

ANALYSIS DATA SHEET

FLC-5-MW01-092911

Laboratory:	Empirical Laboratories, LLC	SDG:	1110003
Client:	Tetra Tech NUS, Inc. (T010)	Project:	Navy Fuel Depot CTO JM46
Matrix:	Water	Laboratory ID:	1110003-28
Sampled:	09/30/11 09:15	Received:	10/01/11 09:10
% Solids:	0.00		

CAS NO.	Analyte	Conc. (ug/L)	DL	LOD	LOQ	D.F.	Q	Method	Batch	Analyzed
7440-36-0	Antimony		1.25	2.00	2.50	1	X U	SW6010C	1K08018	11/11/11 20:50
7440-38-2	Arsenic	2.26	0.750	1.50	2.50	1	I	SW6010C	1K08018	11/11/11 20:50
7440-39-3	Barium	7.85	1.25	2.50	10.0	1	I	SW6010C	1K08018	11/11/11 20:50
7440-41-7	Beryllium		0.250	0.500	1.25	1	U	SW6010C	1K08018	11/11/11 20:50
7440-43-9	Cadmium		0.250	0.500	1.25	1	U	SW6010C	1K08018	11/11/11 20:50
7440-47-3	Chromium	0.678	0.500	1.00	2.50	1	I	SW6010C	1K08018	11/11/11 20:50
7440-50-8	Copper		1.25	2.00	2.50	1	U	SW6010C	1K08018	11/11/11 20:50
7439-92-1	Lead		0.375	0.750	0.750	1	U	SW6010C	1K08018	11/11/11 20:50
7440-02-0	Nickel		0.750	1.50	2.50	1	U	SW6010C	1K08018	11/11/11 20:50
7782-49-2	Selenium		0.750	1.25	2.50	1	UN	SW6010C	1K08018	11/11/11 20:50
7440-22-4	Silver		0.250	0.500	2.50	1	U	SW6010C	1K08018	11/11/11 20:50
7440-28-0	Thallium		0.750	1.00	2.00	1	U	SW6010C	1K08018	11/11/11 20:50
7440-31-5	Tin		2.50	5.00	7.50	1	U	SW6010C	1K08018	11/11/11 20:50
7440-66-6	Zinc		1.25	2.50	5.00	1	U	SW6010C	1K08018	11/11/11 20:50

ANALYSIS DATA SHEET

FLC-5-MW01-092911

Laboratory: Empirical Laboratories, LLC
Client: Tetra Tech NUS, Inc. (T010)
Matrix: Water
Sampled: 09/30/11 09:15
% Solids: 0.00

SDG: 1110003
Project: Navy Fuel Depot CTO JM46
Laboratory ID: 1110003-29
Received: 10/01/11 09:10

CAS NO.	Analyte	Conc. (ug/L)	DL	LOD	LOQ	D.F.	Q	Method	Batch	Analyzed
7440-36-0	Antimony (dissolved)		1.25	2.00	2.50	1	X U	SW6010C	1K08018	11/11/11 21:14
7440-38-2	Arsenic (dissolved)	1.87	0.750	1.50	2.50	1	I	SW6010C	1K08018	11/11/11 21:14
7440-39-3	Barium (dissolved)	7.97	1.25	2.50	10.0	1	I	SW6010C	1K08018	11/11/11 21:14
7440-41-7	Beryllium (dissolved)		0.250	0.500	1.25	1	U	SW6010C	1K08018	11/11/11 21:14
7440-43-9	Cadmium (dissolved)		0.250	0.500	1.25	1	U	SW6010C	1K08018	11/11/11 21:14
7440-47-3	Chromium (dissolved)	0.662	0.500	1.00	2.50	1	I	SW6010C	1K08018	11/11/11 21:14
7440-50-8	Copper (dissolved)		1.25	2.00	2.50	1	U	SW6010C	1K08018	11/11/11 21:14
7439-92-1	Lead (dissolved)		0.375	0.750	0.750	1	U	SW6010C	1K08018	11/11/11 21:14
7440-02-0	Nickel (dissolved)		0.750	1.50	2.50	1	U	SW6010C	1K08018	11/11/11 21:14
7782-49-2	Selenium (dissolved)		0.750	1.25	2.50	1	UN	SW6010C	1K08018	11/11/11 21:14
7440-22-4	Silver (dissolved)		0.250	0.500	2.50	1	U	SW6010C	1K08018	11/11/11 21:14
7440-28-0	Thallium (dissolved)		0.750	1.00	2.00	1	U	SW6010C	1K08018	11/11/11 21:14
7440-31-5	Tin (dissolved)		2.50	5.00	7.50	1	U	SW6010C	1K08018	11/11/11 21:14
7440-66-6	Zinc (dissolved)		1.25	2.50	5.00	1	U	SW6010C	1K08018	11/11/11 21:14

ANALYSIS DATA SHEET

FLC-5-MW02-092911

Laboratory: Empirical Laboratories, LLC
Client: Tetra Tech NUS, Inc. (T010)
Matrix: Water
Sampled: 09/30/11 11:05
% Solids: 0.00

SDG: 1110003
Project: Navy Fuel Depot CTO JM46
Laboratory ID: 1110003-30
Received: 10/01/11 09:10

CAS NO.	Analyte	Conc. (ug/L)	DL	LOD	LOQ	D.F.	Q	Method	Batch	Analyzed
7440-36-0	Antimony		6.25	10.0	12.5	5	X U	SW6010C	1K08018	11/11/11 21:38
7440-38-2	Arsenic		3.75	7.50	12.5	5	U	SW6010C	1K08018	11/11/11 21:38
7440-39-3	Barium	16.4	6.25	12.5	50.0	5	D I	SW6010C	1K08018	11/11/11 21:38
7440-41-7	Beryllium		1.25	2.50	6.25	5	U	SW6010C	1K08018	11/11/11 21:38
7440-43-9	Cadmium		1.25	2.50	6.25	5	U	SW6010C	1K08018	11/11/11 21:38
7440-47-3	Chromium	4.38	2.50	5.00	12.5	5	D I	SW6010C	1K08018	11/11/11 21:38
7440-50-8	Copper		6.25	10.0	12.5	5	U	SW6010C	1K08018	11/11/11 21:38
7439-92-1	Lead		1.88	3.75	3.75	5	U	SW6010C	1K08018	11/11/11 21:38
7440-02-0	Nickel		3.75	7.50	12.5	5	U	SW6010C	1K08018	11/11/11 21:38
7782-49-2	Selenium		3.75	6.25	12.5	5	UN	SW6010C	1K08018	11/11/11 21:38
7440-22-4	Silver		1.25	2.50	12.5	5	U	SW6010C	1K08018	11/11/11 21:38
7440-28-0	Thallium		3.75	5.00	10.0	5	U	SW6010C	1K08018	11/11/11 21:38
7440-31-5	Tin		12.5	25.0	37.5	5	U	SW6010C	1K08018	11/11/11 21:38
7440-66-6	Zinc		6.25	12.5	25.0	5	U	SW6010C	1K08018	11/11/11 21:38

ANALYSIS DATA SHEET

FLC-5-MW02-092911

Laboratory: Empirical Laboratories, LLC
Client: Tetra Tech NUS, Inc. (T010)
Matrix: Water
Sampled: 09/30/11 11:05
% Solids: 0.00

SDG: 1110003
Project: Navy Fuel Depot CTO JM46
Laboratory ID: 1110003-31
Received: 10/01/11 09:10

CAS NO.	Analyte	Conc. (ug/L)	DL	LOD	LOQ	D.F.	Q	Method	Batch	Analyzed
7440-36-0	Antimony (dissolved)		2.50	4.00	5.00	2	X U	SW6010C	1K08018	11/11/11 21:42
7440-38-2	Arsenic (dissolved)	2.14	1.50	3.00	5.00	2	D I	SW6010C	1K08018	11/11/11 21:42
7440-39-3	Barium (dissolved)	11.8	2.50	5.00	20.0	2	D I	SW6010C	1K08018	11/11/11 21:42
7440-41-7	Beryllium (dissolved)		0.500	1.00	2.50	2	U	SW6010C	1K08018	11/11/11 21:42
7440-43-9	Cadmium (dissolved)		0.500	1.00	2.50	2	U	SW6010C	1K08018	11/11/11 21:42
7440-47-3	Chromium (dissolved)	1.92	1.00	2.00	5.00	2	D I	SW6010C	1K08018	11/11/11 21:42
7440-50-8	Copper (dissolved)		2.50	4.00	5.00	2	U	SW6010C	1K08018	11/11/11 21:42
7439-92-1	Lead (dissolved)		0.750	1.50	1.50	2	U	SW6010C	1K08018	11/11/11 21:42
7440-02-0	Nickel (dissolved)	1.75	1.50	3.00	5.00	2	D I	SW6010C	1K08018	11/11/11 21:42
7782-49-2	Selenium (dissolved)		1.50	2.50	5.00	2	UN	SW6010C	1K08018	11/11/11 21:42
7440-22-4	Silver (dissolved)		0.500	1.00	5.00	2	U	SW6010C	1K08018	11/11/11 21:42
7440-28-0	Thallium (dissolved)		1.50	2.00	4.00	2	U	SW6010C	1K08018	11/11/11 21:42
7440-31-5	Tin (dissolved)		5.00	10.0	15.0	2	U	SW6010C	1K08018	11/11/11 21:42
7440-66-6	Zinc (dissolved)	2.52	2.50	5.00	10.0	2	D I	SW6010C	1K08018	11/11/11 21:42

INITIAL AND CONTINUING CALIBRATION CHECK

SW7470A

Laboratory: Empirical Laboratories, LLC
Client: Tetra Tech NUS, Inc. (T010)
Instrument ID: ME-FIMS

SDG: 1110003
Project: Navy Fuel Depot CTO JM46
Calibration: 1291003
Sequence: 1J29111

Lab Sample ID	Analyte	True	Found	%R	Units	Control Limit
1J29111-ICV1	Mercury	4.000	4.051	101	ug/L	+/- 15.00%
1J29111-CCV1	Mercury	4.000	3.947	98.7	ug/L	+/- 15.00%
1J29111-CCV2	Mercury	4.000	3.937	98.4	ug/L	+/- 15.00%
1J29111-CCV3	Mercury	2.000	1.889	94.5	ug/L	+/- 15.00%
1J29111-CCV4	Mercury	2.000	1.860	93.0	ug/L	+/- 15.00%

INITIAL AND CONTINUING CALIBRATION CHECK

SW6010C

Laboratory: Empirical Laboratories, LLC
Client: Tetra Tech NUS, Inc. (T010)
Instrument ID: ME-ICP

SDG: 1110003
Project: Navy Fuel Depot CTO JM46
Calibration: 1320005
Sequence: 1K32008

Lab Sample ID	Analyte	True	Found	%R	Units	Control Limit
1K32008-ICV1	Antimony	1000	1010	101	ug/L	+/- 10.00%
	Arsenic	1000	1039	104	ug/L	+/- 10.00%
	Barium	1000	991.5	99.2	ug/L	+/- 10.00%
	Beryllium	1000	1051	105	ug/L	+/- 10.00%
	Cadmium	1000	1080	108	ug/L	+/- 10.00%
	Chromium	1000	971.3	97.1	ug/L	+/- 10.00%
	Copper	1000	995.8	99.6	ug/L	+/- 10.00%
	Lead	1000	978.6	97.9	ug/L	+/- 10.00%
	Nickel	1000	1003	100	ug/L	+/- 10.00%
	Selenium	1000	1018	102	ug/L	+/- 10.00%
	Silver	500.0	498.8	99.8	ug/L	+/- 10.00%
	Thallium	1000	980.5	98.1	ug/L	+/- 10.00%
	Tin	1000	1012	101	ug/L	+/- 10.00%
	Zinc	1000	1023	102	ug/L	+/- 10.00%
1K32008-CCV1	Antimony	1000	979.4	97.9	ug/L	+/- 10.00%
	Arsenic	1000	1031	103	ug/L	+/- 10.00%
	Barium	1000	959.2	95.9	ug/L	+/- 10.00%
	Beryllium	1000	1088	109	ug/L	+/- 10.00%
	Cadmium	1000	1049	105	ug/L	+/- 10.00%
	Chromium	1000	996.4	99.6	ug/L	+/- 10.00%
	Copper	1000	979.4	97.9	ug/L	+/- 10.00%
	Lead	1000	958.7	95.9	ug/L	+/- 10.00%
	Nickel	1000	995.1	99.5	ug/L	+/- 10.00%
	Selenium	1000	1022	102	ug/L	+/- 10.00%
	Silver	500.0	495.2	99.0	ug/L	+/- 10.00%
	Thallium	1000	1002	100	ug/L	+/- 10.00%
	Tin	1000	993.7	99.4	ug/L	+/- 10.00%
	Zinc	1000	997.2	99.7	ug/L	+/- 10.00%
1K32008-CCV6	**Antimony**	**1000**	**1137**	**114**	**ug/L**	+/- 10.00%
	Arsenic	1000	1045	105	ug/L	+/- 10.00%
	Barium	1000	1022	102	ug/L	+/- 10.00%
	Beryllium	1000	969.6	97.0	ug/L	+/- 10.00%
	Cadmium	1000	1059	106	ug/L	+/- 10.00%
	Chromium	1000	1022	102	ug/L	+/- 10.00%
	Copper	1000	1086	109	ug/L	+/- 10.00%
	Lead	1000	1042	104	ug/L	+/- 10.00%
	Nickel	1000	1016	102	ug/L	+/- 10.00%
	Selenium	1000	1082	108	ug/L	+/- 10.00%

INITIAL AND CONTINUING CALIBRATION CHECK

SW6010C

Laboratory: Empirical Laboratories, LLC
Client: Tetra Tech NUS, Inc. (T010)
Instrument ID: ME-ICP

SDG: 1110003
Project: Navy Fuel Depot CTO JM46
Calibration: 1320005
Sequence: 1K32008

Lab Sample ID	Analyte	True	Found	%R	Units	Control Limit
1K32008-CCV6	Silver	500.0	480.0	96.0	ug/L	+/- 10.00%
	Thallium	1000	999.9	100	ug/L	+/- 10.00%
	Tin	1000	1047	105	ug/L	+/- 10.00%
	Zinc	1000	1048	105	ug/L	+/- 10.00%
1K32008-CCV7	**Antimony**	**1000**	**1130**	**113**	**ug/L**	+/- 10.00%
	Arsenic	1000	1042	104	ug/L	+/- 10.00%
	Barium	1000	1018	102	ug/L	+/- 10.00%
	Beryllium	1000	959.6	96.0	ug/L	+/- 10.00%
	Cadmium	1000	1051	105	ug/L	+/- 10.00%
	Chromium	1000	998.4	99.8	ug/L	+/- 10.00%
	Copper	1000	1077	108	ug/L	+/- 10.00%
	Lead	1000	1034	103	ug/L	+/- 10.00%
	Nickel	1000	1009	101	ug/L	+/- 10.00%
	Selenium	1000	1073	107	ug/L	+/- 10.00%
	Silver	500.0	470.7	94.1	ug/L	+/- 10.00%
	Thallium	1000	988.6	98.9	ug/L	+/- 10.00%
	Tin	1000	1041	104	ug/L	+/- 10.00%
	Zinc	1000	1045	105	ug/L	+/- 10.00%
1K32008-CCV8	**Antimony**	**1000**	**1126**	**113**	**ug/L**	+/- 10.00%
	Arsenic	1000	1042	104	ug/L	+/- 10.00%
	Barium	1000	1014	101	ug/L	+/- 10.00%
	Beryllium	1000	956.2	95.6	ug/L	+/- 10.00%
	Cadmium	1000	1045	104	ug/L	+/- 10.00%
	Chromium	1000	990.4	99.0	ug/L	+/- 10.00%
	Copper	1000	1080	108	ug/L	+/- 10.00%
	Lead	1000	1030	103	ug/L	+/- 10.00%
	Nickel	1000	1007	101	ug/L	+/- 10.00%
	Selenium	1000	1075	108	ug/L	+/- 10.00%
	Silver	500.0	473.7	94.7	ug/L	+/- 10.00%
	Thallium	1000	993.4	99.3	ug/L	+/- 10.00%
	Tin	1000	1035	104	ug/L	+/- 10.00%
	Zinc	1000	1035	103	ug/L	+/- 10.00%

CRDL STANDARD

SW7470A

Laboratory: Empirical Laboratories, LLC

SDG: 1110003

Client: Tetra Tech NUS, Inc. (T010)

Project: Navy Fuel Depot CTO JM46

Instrument ID: ME-FIMS

Calibration: 1291003

Sequence: 1J29111

Lab Sample ID	Analyte	True	Found	%R	Units	QC Limts
1J29111-CRL1	Mercury	0.2000	0.1478	73.9	ug/L	70 - 130

CRDL STANDARD

SW6010C

Laboratory: Empirical Laboratories, LLC

SDG: 1110003

Client: Tetra Tech NUS, Inc. (T010)

Project: Navy Fuel Depot CTO JM46

Instrument ID: ME-ICP

Calibration: 1320005

Sequence: 1K32008

Lab Sample ID	Analyte	True	Found	%R	Units	QC Limts
1K32008-CRL1	Antimony	8.000	7.478	93.5	ug/L	80 - 120
	Barium	10.00	10.06	101	ug/L	80 - 120
	Beryllium	2.000	2.138	107	ug/L	80 - 120
	Cadmium	2.000	2.123	106	ug/L	80 - 120
	Chromium	4.000	4.199	105	ug/L	80 - 120
	Copper	8.000	8.280	103	ug/L	80 - 120
	Lead	3.000	3.405	114	ug/L	80 - 120
	Nickel	6.000	5.624	93.7	ug/L	80 - 120
	Silver	2.000	1.947	97.4	ug/L	80 - 120
	Thallium	4.000	3.981	99.5	ug/L	80 - 120
	Tin	20.00	19.60	98.0	ug/L	80 - 120
	Zinc	10.00	9.957	99.6	ug/L	80 - 120
1K32008-CRL2	Arsenic	5.000	5.307	106	ug/L	80 - 120
	Selenium	5.000	4.546	90.9	ug/L	80 - 120

BLANKS
SW7470A

Laboratory: Empirical Laboratories, LLC
SDG: 1110003
Client: Tetra Tech NUS, Inc. (T010)
Instrument ID: ME-FIMS
Project: Navy Fuel Depot CTO JM46
Sequence: 1J29111
Calibration: 1291003

Lab Sample ID	Analyte	Found	MDL	MRL	Units	C	Method
1J29111-ICB1	Mercury	-0.03584	0.0800	0.200	ug/L	U	SW7470A
1J13024-BLKI	Mercury	-0.0367	0.0800	0.200	ug/L	U	SW7470A
	Mercury (dissolved)	-0.0367	0.0800	0.200	ug/L	U	SW7470A
1J29111-CCB1	Mercury	-0.0334	0.0800	0.200	ug/L	U	SW7470A
1J29111-CCB2	Mercury	-0.0319	0.0800	0.200	ug/L	U	SW7470A
1J13025-BLK1	Mercury	-0.0315	0.0800	0.200	ug/L	U	SW7470A
	Mercury (dissolved)	-0.0315	0.0800	0.200	ug/L	U	SW7470A
1J29111-CCB3	Mercury	-0.0372	0.0800	0.200	ug/L	U	SW7470A
1J29111-CCB4	Mercury	-0.0358	0.0800	0.200	ug/L	U	SW7470A

BLANKS
SW6010C

Laboratory: Empirical Laboratories, LLC
SDG: 1110003
Client: Tetra Tech NUS, Inc. (T010)
Instrument ID: ME-ICP
Project: Navy Fuel Depot CTO JM46
Sequence: 1K32008
Calibration: 1320005

Lab Sample ID	Analyte	Found	MDL	MRL	Units	C	Method
1K32008-ICB1	Antimony	-0.1574	5.00	15.0	ug/L	U	SW6010C
	Arsenic	0.2830	3.00	6.00	ug/L	U	SW6010C
	Barium	0.0004000	5.00	40.0	ug/L	U	SW6010C
	Beryllium	-0.01313	1.00	5.00	ug/L	U	SW6010C
	Cadmium	-0.01561	1.00	5.00	ug/L	U	SW6010C
	Chromium	-0.006320	2.00	5.00	ug/L	U	SW6010C
	Copper	0.3863	5.00	10.0	ug/L	U	SW6010C
	Lead	0.1431	1.50	3.00	ug/L	U	SW6010C
	Nickel	-0.3100	3.00	10.0	ug/L	U	SW6010C
	Selenium	0.2110	3.00	6.00	ug/L	U	SW6010C
	Silver	-0.07824	1.00	5.00	ug/L	U	SW6010C
	Thallium	0.3219	3.00	8.00	ug/L	U	SW6010C
	Tin	-0.2293	50.0	100	ug/L	U	SW6010C
	Zinc	-0.001210	5.00	20.0	ug/L	U	SW6010C
1K32008-CCB1	Antimony	0.0436	5.00	15.0	ug/L	U	SW6010C
	Arsenic	1.62	3.00	6.00	ug/L	U	SW6010C
	Barium	0.163	5.00	40.0	ug/L	U	SW6010C
	Beryllium	0.0359	1.00	5.00	ug/L	U	SW6010C
	Cadmium	0.172	1.00	5.00	ug/L	U	SW6010C
	Chromium	0.0955	2.00	5.00	ug/L	U	SW6010C
	Copper	0.975	5.00	10.0	ug/L	U	SW6010C
	Lead	0.410	1.50	3.00	ug/L	U	SW6010C
	Nickel	-0.382	3.00	10.0	ug/L	U	SW6010C
	Selenium	-0.0155	3.00	6.00	ug/L	U	SW6010C
	Silver	-0.0783	1.00	5.00	ug/L	U	SW6010C
	Thallium	0.329	3.00	8.00	ug/L	U	SW6010C
	Tin	0.229	50.0	100	ug/L	U	SW6010C
	Zinc	0.126	5.00	20.0	ug/L	U	SW6010C
1K32008-CCB6	Antimony	0.138	5.00	15.0	ug/L	U	SW6010C
	Arsenic	0.944	3.00	6.00	ug/L	U	SW6010C
	Barium	0.191	5.00	40.0	ug/L	U	SW6010C
	Beryllium	0.0661	1.00	5.00	ug/L	U	SW6010C
	Cadmium	0.169	1.00	5.00	ug/L	U	SW6010C

BLANKS
SW6010C

Laboratory: Empirical Laboratories, LLC
SDG: 1110003
Client: Tetra Tech NUS, Inc. (T010)
Instrument ID: ME-ICP
Project: Navy Fuel Depot CTO JM46
Sequence: 1K32008
Calibration: 1320005

Lab Sample ID	Analyte	Found	MDL	MRL	Units	C	Method
1K32008-CCB6	Chromium	0.184	2.00	5.00	ug/L	U	SW6010C
	Copper	-0.503	5.00	10.0	ug/L	U	SW6010C
	Lead	0.484	1.50	3.00	ug/L	U	SW6010C
	Nickel	0.401	3.00	10.0	ug/L	U	SW6010C
	Selenium	0.758	3.00	6.00	ug/L	U	SW6010C
	Silver	-0.267	1.00	5.00	ug/L	U	SW6010C
	Thallium	0.412	3.00	8.00	ug/L	U	SW6010C
	Tin	0.170	50.0	100	ug/L	U	SW6010C
	Zinc	0.158	5.00	20.0	ug/L	U	SW6010C
1K08018-BLK1	Antimony	-0.215	1.25	3.75	ug/L	U	SW6010C
	Antimony (dissolved)	-0.215	1.25	2.50	ug/L	U	SW6010C
	Arsenic	0.255	0.750	1.50	ug/L	U	SW6010C
	Arsenic (dissolved)	0.255	0.750	2.50	ug/L	U	SW6010C
	Barium	0.00298	1.25	10.0	ug/L	U	SW6010C
	Barium (dissolved)	0.00298	1.25	10.0	ug/L	U	SW6010C
	Beryllium	0.0285	0.250	1.25	ug/L	U	SW6010C
	Beryllium (dissolved)	0.0285	0.250	1.25	ug/L	U	SW6010C
	Cadmium	0.0178	0.250	1.25	ug/L	U	SW6010C
	Cadmium (dissolved)	0.0178	0.250	1.25	ug/L	U	SW6010C
	Chromium	0.309	0.500	1.25	ug/L	U	SW6010C
	Chromium (dissolved)	0.309	0.500	2.50	ug/L	U	SW6010C
	Copper	-0.0241	1.25	2.50	ug/L	U	SW6010C
	Copper (dissolved)	-0.0241	1.25	2.50	ug/L	U	SW6010C
	Lead	0.0185	0.375	0.750	ug/L	U	SW6010C
	Lead (dissolved)	0.0185	0.375	0.750	ug/L	U	SW6010C
	Nickel	0.241	0.750	2.50	ug/L	U	SW6010C
	Nickel (dissolved)	0.241	0.750	2.50	ug/L	U	SW6010C
	Selenium	-0.0778	0.750	1.50	ug/L	U	SW6010C
	Selenium (dissolved)	-0.0778	0.750	2.50	ug/L	U	SW6010C
	Silver	-0.0271	0.250	1.25	ug/L	U	SW6010C
	Silver (dissolved)	-0.0271	0.250	2.50	ug/L	U	SW6010C
	Thallium	0.0208	0.750	2.00	ug/L	U	SW6010C
	Thallium (dissolved)	0.0208	0.750	2.00	ug/L	U	SW6010C

BLANKS
SW6010C

Laboratory: Empirical Laboratories, LLC
SDG: 1110003
Client: Tetra Tech NUS, Inc. (T010)
Instrument ID: ME-ICP
Project: Navy Fuel Depot CTO JM46
Sequence: 1K32008
Calibration: 1320005

Lab Sample ID	Analyte	Found	MDL	MRL	Units	C	Method
1K08018-BLK1	Tin	0.0981	12.5	25.0	ug/L	U	SW6010C
	Tin (dissolved)	0.0981	2.50	7.50	ug/L	U	SW6010C
	Zinc	0.270	1.25	5.00	ug/L	U	SW6010C
	Zinc (dissolved)	0.270	1.25	5.00	ug/L	U	SW6010C
1K32008-CCB7	Antimony	-0.168	5.00	15.0	ug/L	U	SW6010C
	Arsenic	0.589	3.00	6.00	ug/L	U	SW6010C
	Barium	0.248	5.00	40.0	ug/L	U	SW6010C
	Beryllium	0.163	1.00	5.00	ug/L	U	SW6010C
	Cadmium	0.223	1.00	5.00	ug/L	U	SW6010C
	Chromium	0.209	2.00	5.00	ug/L	U	SW6010C
	Copper	-0.463	5.00	10.0	ug/L	U	SW6010C
	Lead	0.812	1.50	3.00	ug/L	U	SW6010C
	Nickel	0.369	3.00	10.0	ug/L	U	SW6010C
	Selenium	-0.484	3.00	6.00	ug/L	U	SW6010C
	Silver	-0.151	1.00	5.00	ug/L	U	SW6010C
	Thallium	0.319	3.00	8.00	ug/L	U	SW6010C
	Tin	0.327	50.0	100	ug/L	U	SW6010C
	Zinc	0.163	5.00	20.0	ug/L	U	SW6010C
1K32008-CCB8	Antimony	-1.17	5.00	15.0	ug/L	U	SW6010C
	Arsenic	-0.0795	3.00	6.00	ug/L	U	SW6010C
	Barium	0.266	5.00	40.0	ug/L	U	SW6010C
	Beryllium	0.203	1.00	5.00	ug/L	U	SW6010C
	Cadmium	0.322	1.00	5.00	ug/L	U	SW6010C
	Chromium	0.207	2.00	5.00	ug/L	U	SW6010C
	Copper	-0.285	5.00	10.0	ug/L	U	SW6010C
	Lead	0.633	1.50	3.00	ug/L	U	SW6010C
	Nickel	0.332	3.00	10.0	ug/L	U	SW6010C
	Selenium	0.971	3.00	6.00	ug/L	U	SW6010C
	Silver	-0.185	1.00	5.00	ug/L	U	SW6010C
	Thallium	-0.174	3.00	8.00	ug/L	U	SW6010C
	Tin	0.360	50.0	100	ug/L	U	SW6010C
	Zinc	0.249	5.00	20.0	ug/L	U	SW6010C

ICP INTERFERENCE CHECK SAMPLE

SW6010C

Laboratory: Empirical Laboratories, LLC
SDG: 1110003
Client: Tetra Tech NUS, Inc. (T010)
Project: Navy Fuel Depot CTO JM46
Instrument ID: ME-ICP
Calibration: 1320005
Sequence: 1K32008

Lab Sample ID	Analyte	True	Found	%R	Units
1K32008-IFA1	Antimony		-0.91		ug/L
	Arsenic		-1.12		ug/L
	Barium		1.56		ug/L
	Beryllium		0.05		ug/L
	Cadmium		1.36		ug/L
	Chromium		-0.86		ug/L
	Copper		0.03		ug/L
	Lead		1.55		ug/L
	Nickel		-4.30		ug/L
	Selenium		0.49		ug/L
	Silver		-0.31		ug/L
	Thallium		-1.80		ug/L
	Tin		-2.02		ug/L
	Zinc		-8.36		ug/L
1K32008-IFB1	Antimony	600.0	634.40	106	ug/L
	Arsenic	100.0	110.42	110	ug/L
	Barium	500.0	513.78	103	ug/L
	Beryllium	500.0	510.57	102	ug/L
	Cadmium	1000	1,054.60	105	ug/L
	Chromium	500.0	473.02	94.6	ug/L
	Copper	500.0	509.25	102	ug/L
	Lead	50.00	47.62	95.2	ug/L
	Nickel	1000	974.45	97.4	ug/L
	Selenium	50.00	51.50	103	ug/L
	Silver	200.0	207.65	104	ug/L
	Thallium	100.0	93.17	93.2	ug/L
	Tin		-2.01		ug/L
	Zinc	1000	991.93	99.2	ug/L

MATRIX SPIKE / MATRIX SPIKE DUPLICATE RECOVERY

SW7470A

FLC-5-MW01-092911

Laboratory: Empirical Laboratories, LLC

SDG: 1110003

Client: Tetra Tech NUS, Inc. (T010)

Project: Navy Fuel Depot CTO JM46

Matrix: Water

Batch: 1J13025

% Solids:

Source Sample Name: **1110003-12**

ANALYTE	SPIKE ADDED (ug/L)	SAMPLE CONCENTRATION (ug/L)	MS CONCENTRATION (ug/L)	MS % REC.	Q	QC LIMITS REC.
Mercury	2.000	ND	2.141	107		80 - 120

ANALYTE	SPIKE ADDED (ug/L)	MSD CONCENTRATION (ug/L)	MSD % REC. #	% RPD	Q	QC LIMITS RPD	QC LIMITS REC.
Mercury	2.000	2.167	108	1.21		20	80 - 120

MATRIX SPIKE / MATRIX SPIKE DUPLICATE RECOVERY

SW7470A

FLC-5-MW01-092911

Laboratory: Empirical Laboratories, LLC

SDG: 1110003

Client: Tetra Tech NUS, Inc. (T010)

Project: Navy Fuel Depot CTO JM46

Matrix: Water

Batch: 1J13025

% Solids:

Source Sample Name: **1110003-13**

ANALYTE	SPIKE ADDED (ug/L)	SAMPLE CONCENTRATION (ug/L)	MS CONCENTRATION (ug/L)	MS % REC.	Q	QC LIMITS REC.
Mercury (dissolved)	2.000	ND	2.043	102		80 - 120

ANALYTE	SPIKE ADDED (ug/L)	MSD CONCENTRATION (ug/L)	MSD % REC. #	% RPD	Q	QC LIMITS RPD	QC LIMITS REC.
Mercury (dissolved)	2.000	2.125	106	3.94		20	80 - 120

MATRIX SPIKE / MATRIX SPIKE DUPLICATE RECOVERY

SW6010C

FLC-5-MW01-092911

Laboratory: Empirical Laboratories, LLC

SDG: 1110003

Client: Tetra Tech NUS, Inc. (T010)

Project: Navy Fuel Depot CTO JM46

Matrix: Water

Batch: 1K08018

% Solids:

Source Sample Name: **1110003-28**

ANALYTE	SPIKE ADDED (ug/L)	SAMPLE CONCENTRATION (ug/L)	MS CONCENTRATION (ug/L)	MS % REC.	Q	QC LIMITS REC.
Antimony	125.0	ND	131.5	105		80 - 120
Arsenic	125.0	2.260	130.6	103		80 - 120
Barium	500.0	7.854	501.7	98.8		80 - 120
Beryllium	12.50	ND	11.93	95.5		80 - 120
Cadmium	62.50	ND	62.71	100		80 - 120
Chromium	50.00	0.6782	46.18	91.0		80 - 120
Copper	62.50	ND	65.85	105		80 - 120
Lead	125.0	ND	124.2	99.4		80 - 120
Nickel	125.0	ND	120.6	96.5		80 - 120
Selenium	125.0	ND	42.76	34.2	N	80 - 120
Silver	62.50	ND	54.43	87.1		80 - 120
Thallium	125.0	ND	116.4	93.2		80 - 120
Tin	250.0	ND	239.5	95.8		80 - 120
Zinc	125.0	ND	124.0	99.2		80 - 120

MATRIX SPIKE / MATRIX SPIKE DUPLICATE RECOVERY

SW6010C

FLC-5-MW01-092911

Laboratory: Empirical Laboratories, LLC

SDG: 1110003

Client: Tetra Tech NUS, Inc. (T010)

Project: Navy Fuel Depot CTO JM46

Matrix: Water

Batch: 1K08018

% Solids:

Source Sample Name: **1110003-29**

ANALYTE	SPIKE ADDED (ug/L)	SAMPLE CONCENTRATION (ug/L)	MS CONCENTRATION (ug/L)	MS % REC.	Q	QC LIMITS REC.
Antimony (dissolved)	125.0	ND	136.3	109		80 - 120
Arsenic (dissolved)	125.0	1.870	132.0	104		80 - 120
Barium (dissolved)	500.0	7.968	507.2	99.9		80 - 120
Beryllium (dissolved)	12.50	ND	11.92	95.4		80 - 120
Cadmium (dissolved)	62.50	ND	63.61	102		80 - 120
Chromium (dissolved)	50.00	0.6618	46.62	91.9		80 - 120
Copper (dissolved)	62.50	ND	66.12	106		80 - 120
Lead (dissolved)	125.0	ND	126.4	101		80 - 120
Nickel (dissolved)	125.0	ND	122.0	97.6		80 - 120
Selenium (dissolved)	125.0	ND	49.06	39.2	N	80 - 120
Silver (dissolved)	62.50	ND	52.28	83.6		80 - 120
Thallium (dissolved)	125.0	ND	117.6	94.0		80 - 120
Tin (dissolved)	250.0	ND	249.6	99.8		80 - 120
Zinc (dissolved)	125.0	ND	124.5	99.6		80 - 120

POST DIGEST SPIKE SAMPLE RECOVERY

SW6010C

FLC-5-MW01-092911

Laboratory: Empirical Laboratories, LLC
SDG: 1110003
Client: Tetra Tech NUS, Inc. (T010)
Project: Navy Fuel Depot CTO JM46
Matrix: Water
Laboratory ID: 1K08018-PS1
Batch: 1K08018
Lab Source ID: 1110003-28
Preparation: MET_3005A_LOW
Initial/Final: 100 mL / 25 mL

Analyte	Spike Sample Result (SSR) (ug/L)	Sample Result (SR) (ug/L)	Spike Added (SA) (ug/L)	%R	Control Limit %R
Antimony	298.5	ND	250.0	119	80 - 120
Arsenic	288.7	9.040	250.0	112	80 - 120
Barium	2157	31.42	2000	106	80 - 120
Beryllium	52.09	ND	50.00	104	80 - 120
Cadmium	137.4	ND	125.0	110	80 - 120
Chromium	206.5	2.713	200.0	102	80 - 120
Copper	280.8	ND	250.0	112	80 - 120
Lead	273.4	ND	250.0	109	80 - 120
Nickel	520.4	ND	500.0	104	80 - 120
Selenium	291.4	ND	250.0	116	80 - 120
Silver	255.0	ND	250.0	102	80 - 120
Thallium	255.6	ND	250.0	102	80 - 120
Tin	1096	ND	1000	110	80 - 120
Zinc	530.1	ND	500.0	105	80 - 120

POST DIGEST SPIKE SAMPLE RECOVERY

SW6010C

FLC-5-MW01-092911

Laboratory: Empirical Laboratories, LLC
SDG: 1110003
Client: Tetra Tech NUS, Inc. (T010)
Project: Navy Fuel Depot CTO JM46
Matrix: Water
Laboratory ID: 1K08018-PS2
Batch: 1K08018
Lab Source ID: 1110003-29
Preparation: MET_3005A_LOW
Initial/Final: 100 mL / 25 mL

Analyte	Spike Sample Result (SSR) (ug/L)	Sample Result (SR) (ug/L)	Spike Added (SA) (ug/L)	%R	Control Limit %R
Antimony (dissolved)	300.6	ND	250.0	120	80 - 120
Arsenic (dissolved)	289.5	7.479	250.0	113	80 - 120
Barium (dissolved)	2180	31.87	2000	107	80 - 120
Beryllium (dissolved)	52.16	ND	50.00	104	80 - 120
Cadmium (dissolved)	138.2	ND	125.0	111	80 - 120
Chromium (dissolved)	206.2	2.647	200.0	102	80 - 120
Copper (dissolved)	281.6	ND	250.0	113	80 - 120
Lead (dissolved)	275.3	ND	250.0	110	80 - 120
Nickel (dissolved)	524.5	ND	500.0	104	80 - 120
Selenium (dissolved)	291.0	ND	250.0	116	80 - 120
Silver (dissolved)	253.4	ND	250.0	102	80 - 120
Thallium (dissolved)	255.2	ND	250.0	102	80 - 120
Tin (dissolved)	1114	ND	1000	111	80 - 120
Zinc (dissolved)	534.9	ND	500.0	107	80 - 120

LCS / LCS DUPLICATE RECOVERY

SW7470A

Laboratory:	Empirical Laboratories, LLC	SDG:	1110003
Client:	Tetra Tech NUS, Inc. (T010)	Project:	Navy Fuel Depot CTO JM46
Matrix:	Water		
Batch:	1J13024	Laboratory ID:	1J13024-BS1
Preparation:	pMercury-W SW 7470A	Initial/Final:	30 mL / 30 mL

ANALYTE	SPIKE ADDED (ug/L)	LCS CONCENTRATION (ug/L)	LCS % REC.	QC LIMITS REC.
Mercury	2.000	2.140	107	80 - 120
Mercury (dissolved)	2.000	2.140	107	80 - 120

LCS / LCS DUPLICATE RECOVERY

SW7470A

Laboratory:	Empirical Laboratories, LLC	SDG:	1110003
Client:	Tetra Tech NUS, Inc. (T010)	Project:	Navy Fuel Depot CTO JM46
Matrix:	Water		
Batch:	1J13025	Laboratory ID:	1J13025-BS1
Preparation:	pMercury-W SW 7470A	Initial/Final:	30 mL / 30 mL

ANALYTE	SPIKE ADDED (ug/L)	LCS CONCENTRATION (ug/L)	LCS % REC.	QC LIMITS REC.
Mercury	2.000	2.072	104	80 - 120
Mercury (dissolved)	2.000	2.072	104	80 - 120

LCS / LCS DUPLICATE RECOVERY

SW6010C

Laboratory:	Empirical Laboratories, LLC	SDG:	1110003
Client:	Tetra Tech NUS, Inc. (T010)	Project:	Navy Fuel Depot CTO JM46
Matrix:	Water		
Batch:	1K08018	Laboratory ID:	1K08018-BS1
Preparation:	MET_3005A_LOW	Initial/Final:	100 mL / 25 mL

ANALYTE	SPIKE ADDED (ug/L)	LCS CONCENTRATION (ug/L)	LCS % REC.	QC LIMITS REC.
Antimony	5.000	5.099	102	80 - 120
Antimony (dissolved)	5.000	5.099	102	80 - 120
Arsenic	5.000	4.869	97.4	80 - 120
Arsenic (dissolved)	5.000	4.869	97.4	80 - 120
Barium	40.00	40.00	100	80 - 120
Barium (dissolved)	40.00	40.00	100	80 - 120
Beryllium	1.000	1.037	104	80 - 120
Beryllium (dissolved)	1.000	1.037	104	80 - 120
Cadmium	2.500	2.650	106	80 - 120
Cadmium (dissolved)	2.500	2.650	106	80 - 120
Chromium	4.000	4.092	102	80 - 120
Chromium (dissolved)	4.000	4.092	102	80 - 120
Copper	5.000	5.304	106	80 - 120
Copper (dissolved)	5.000	5.304	106	80 - 120
Lead	5.000	5.260	105	80 - 120
Lead (dissolved)	5.000	5.260	105	80 - 120
Nickel	10.00	10.05	101	80 - 120
Nickel (dissolved)	10.00	10.05	101	80 - 120
Selenium	5.000	4.802	96.0	80 - 120
Selenium (dissolved)	5.000	4.802	96.0	80 - 120
Silver	5.000	4.851	97.0	80 - 120
Silver (dissolved)	5.000	4.851	97.0	80 - 120
Thallium	5.000	4.950	99.0	80 - 120
Thallium (dissolved)	5.000	4.950	99.0	80 - 120
Tin	20.00	19.93	99.7	80 - 120
Tin (dissolved)	20.00	19.93	99.7	80 - 120
Zinc	10.00	10.31	103	80 - 120
Zinc (dissolved)	10.00	10.31	103	80 - 120

SERIAL DILUTION

SW6010C

FLC-5-MW01-092911

Laboratory: Empirical Laboratories, LLC
SDG: 1110003
Client: Tetra Tech NUS, Inc. (T010)
Project: Navy Fuel Depot CTO JM46
Matrix: Water
Laboratory ID: 1K08018-DUP1
Sequence: 1K32008
Lab Source ID: 1110003-28
Preparation: MET_3005A_LOW
Initial/Final: 100 / 25

Analyte	Initial Sample Result (I) ug/L	Serial Dilution Result (S) ug/L	% Difference	Q	Method	QC Limits % Difference
Antimony	ND	ND			SW6010C	10.00
Arsenic	9.0395	ND			SW6010C	10.00
Barium	31.416	33.008	5.07		SW6010C	10.00
Beryllium	ND	ND			SW6010C	10.00
Cadmium	ND	ND			SW6010C	10.00
Chromium	2.7129	ND			SW6010C	10.00
Copper	ND	ND			SW6010C	10.00
Lead	ND	ND			SW6010C	10.00
Nickel	ND	ND			SW6010C	10.00
Selenium	ND	ND			SW6010C	10.00
Silver	ND	ND			SW6010C	10.00
Thallium	ND	ND			SW6010C	10.00
Tin	ND	ND			SW6010C	10.00
Zinc	ND	ND			SW6010C	10.00

SERIAL DILUTION

SW6010C

FLC-5-MW01-092911

Laboratory: Empirical Laboratories, LLC
SDG: 1110003
Client: Tetra Tech NUS, Inc. (T010)
Project: Navy Fuel Depot CTO JM46
Matrix: Water
Laboratory ID: 1K08018-DUP2
Sequence: 1K32008
Lab Source ID: 1110003-29
Preparation: MET_3005A_LOW
Initial/Final: 100 / 25

Analyte	Initial Sample Result (I) ug/L	Serial Dilution Result (S) ug/L	% Difference	Q	Method	QC Limits % Difference
Antimony (dissolved)	ND	ND			SW6010C	10.00
Arsenic (dissolved)	7.4792	45.876	513		SW6010C	10.00
Barium (dissolved)	31.873	159.88	402		SW6010C	10.00
Beryllium (dissolved)	ND	ND			SW6010C	10.00
Cadmium (dissolved)	ND	ND			SW6010C	10.00
Chromium (dissolved)	2.647	13.383	406		SW6010C	10.00
Copper (dissolved)	ND	ND			SW6010C	10.00
Lead (dissolved)	ND	ND			SW6010C	10.00
Nickel (dissolved)	ND	ND			SW6010C	10.00
Selenium (dissolved)	ND	ND			SW6010C	10.00
Silver (dissolved)	ND	ND			SW6010C	10.00
Thallium (dissolved)	ND	ND			SW6010C	10.00
Tin (dissolved)	ND	ND			SW6010C	10.00
Zinc (dissolved)	ND	ND			SW6010C	10.00

SERIAL DILUTION

SW6010C

FLC-5-MW01-092911

Laboratory: Empirical Laboratories, LLC
SDG: 1110003
Client: Tetra Tech NUS, Inc. (T010)
Project: Navy Fuel Depot CTO JM46
Matrix: Water
Laboratory ID: 1K08018-DUP3
Sequence: 1K32008
Lab Source ID: 1110003-28
Preparation: MET_3005A_LOW
Initial/Final: 100 / 25

Analyte	Initial Sample Result (I) ug/L	Serial Dilution Result (S) ug/L	% Difference	Q	Method	QC Limits % Difference
Antimony	ND	ND			SW6010C	10.00
Arsenic	9.0395	ND			SW6010C	10.00
Barium	31.416	32.428	3.22		SW6010C	10.00
Beryllium	ND	ND			SW6010C	10.00
Cadmium	ND	ND			SW6010C	10.00
Chromium	2.7129	ND			SW6010C	10.00
Copper	ND	ND			SW6010C	10.00
Lead	ND	ND			SW6010C	10.00
Nickel	ND	ND			SW6010C	10.00
Selenium	ND	ND			SW6010C	10.00
Silver	ND	ND			SW6010C	10.00
Thallium	ND	ND			SW6010C	10.00
Tin	ND	ND			SW6010C	10.00
Zinc	ND	ND			SW6010C	10.00

SERIAL DILUTION

SW6010C

FLC-5-MW01-092911

Laboratory: Empirical Laboratories, LLC
SDG: 1110003
Client: Tetra Tech NUS, Inc. (T010)
Project: Navy Fuel Depot CTO JM46
Matrix: Water
Laboratory ID: 1K08018-DUP4
Sequence: 1K32008
Lab Source ID: 1110003-28
Preparation: MET_3005A_LOW
Initial/Final: 100 / 25

Analyte	Initial Sample Result (I) ug/L	Serial Dilution Result (S) ug/L	% Difference	Q	Method	QC Limits % Difference
Antimony	ND	ND			SW6010C	10.00
Arsenic	9.0395	38.989	331		SW6010C	10.00
Barium	31.416	172.26	448		SW6010C	10.00
Beryllium	ND	ND			SW6010C	10.00
Cadmium	ND	ND			SW6010C	10.00
Chromium	2.7129	14.627	439		SW6010C	10.00
Copper	ND	ND			SW6010C	10.00
Lead	ND	ND			SW6010C	10.00
Nickel	ND	ND			SW6010C	10.00
Selenium	ND	ND			SW6010C	10.00
Silver	ND	ND			SW6010C	10.00
Thallium	ND	ND			SW6010C	10.00
Tin	ND	ND			SW6010C	10.00
Zinc	ND	ND			SW6010C	10.00

USEPA - CLP

10A-IN
ICP-AES INTERELEMENT CORRECTION FACTORS (ANNUALLY)

Lab Name: Empirical Laboratories, LLC Contract: Tetra Tech NUS, Inc. (T010)

SDG No.: 1110003

ICP-AES Instrument ID: Thermo Jarrell Ashe ICAP Date: 9/11/2009

Analyte	Wave-length (nm)	Interelement Correction Factors for:				
		Al	Ca	Fe	Mg	Ag
Antimony	206.8	0.0000000	0.0000000	0.0000300	0.0000000	0.0000000
Arsenic	189.0	0.0000120	0.0000000	0.0000020	0.0000000	0.0000000
Barium	233.5	0.0000000	0.0000000	0.0000090	0.0000000	0.0000000
Beryllium	313.0	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000
Cadmium	228.8	0.0000000	0.0000000	-0.0000050	0.0021850	0.0000000
Chromium	267.7	0.0000000	0.0000000	0.0000040	0.0056080	0.0000000
Copper	224.7	0.0000000	0.0000000	0.0002930	0.0000000	0.0000000
Lead	220.3	0.0002980	0.0000000	0.0000080	0.0003250	0.0000000
Nickel	231.6	0.0000000	0.0000000	-0.0000040	0.0000000	0.0000000
Selenium	196.0	0.0000000	0.0000000	0.0000200	0.0000000	0.0000000
Silver	328.0	0.0000000	0.0000000	0.0000020	0.0000000	0.0000000
Thallium	190.8	0.0000000	0.0000000	0.0000080	0.0000000	0.0000000
Tin	189.9	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000
Zinc	206.2	0.0000000	0.0000000	0.0000000	0.0013660	0.0000000

Comments:

FORM XA-IN

USEPA - CLP

10A-IN
ICP-AES INTERELEMENT CORRECTION FACTORS (ANNUALLY)

Lab Name: Empirical Laboratories, LLC Contract: Tetra Tech NUS, Inc. (T010)

SDG No.: 1110003

ICP-AES Instrument ID: Thermo Jarrell Ashe ICAP Date: 9/11/2009

Analyte	Wave-length (nm)	Interelement Correction Factors for: As	B	Ba	Be	Cd
Antimony	206.8	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000
Arsenic	189.0	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000
Barium	233.5	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000
Beryllium	313.0	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000
Cadmium	228.8	0.0045780	0.0000000	0.0000000	0.0000000	0.0000000
Chromium	267.7	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000
Copper	224.7	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000
Lead	220.3	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000
Nickel	231.6	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000
Selenium	196.0	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000
Silver	328.0	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000
Thallium	190.8	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000
Tin	189.9	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000
Zinc	206.2	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000

Comments:

FORM XA-IN

USEPA - CLP

10A-IN
ICP-AES INTERELEMENT CORRECTION FACTORS (ANNUALLY)

Lab Name: Empirical Laboratories, LLC Contract: Tetra Tech NUS, Inc. (T010)

SDG No.: 1110003

ICP-AES Instrument ID: Thermo Jarrell Ashe ICAP Date: 9/11/2009

Analyte	Wave-length (nm)	Interelement Correction Factors for:				
		Co	Cr	Cu	K	Mn
Antimony	206.8	0.0000000	0.0060190	0.0000000	0.0000000	0.0000000
Arsenic	189.0	0.0000000	-0.0126310	0.0000000	0.0000000	0.0000000
Barium	233.5	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000
Beryllium	313.0	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000
Cadmium	228.8	-0.0025320	0.0000000	0.0000000	0.0000000	0.0000000
Chromium	267.7	0.0000000	0.0000000	0.0000000	0.0000000	0.0002500
Copper	224.7	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000
Lead	220.3	0.0000000	0.0000000	0.0022600	0.0000000	0.0000990
Nickel	231.6	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000
Selenium	196.0	0.0000000	0.0000000	0.0000000	0.0000000	0.0009430
Silver	328.0	0.0000000	0.0000000	0.0000000	0.0000000	0.0000650
Thallium	190.8	0.0040870	0.0002110	0.0000000	0.0000000	0.0014070
Tin	189.9	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000
Zinc	206.2	0.0000000	-0.0003020	0.0000000	0.0000000	0.0000000

Comments:

FORM XA-IN

USEPA - CLP

10A-IN
ICP-AES INTERELEMENT CORRECTION FACTORS (ANNUALLY)

Lab Name: Empirical Laboratories, LLC Contract: Tetra Tech NUS, Inc. (T010)

SDG No.: 1110003

ICP-AES Instrument ID: Thermo Jarrell Ashe ICAP Date: 9/11/2009

Analyte	Wave-length (nm)	Interelement Correction Factors for: Mo	Na	Ni	Pb	Sb
Antimony	206.8	-0.0012790	0.0000000	0.0000000	0.0000000	0.0000000
Arsenic	189.0	-0.0001200	0.0000000	0.0000000	0.0000000	0.0000000
Barium	233.5	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000
Beryllium	313.0	-0.0000250	0.0000000	0.0000000	0.0000000	0.0000000
Cadmium	228.8	0.0000000	0.0000000	-0.0000880	0.0000000	0.0000000
Chromium	267.7	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000
Copper	224.7	0.0018210	0.0000000	-0.0088250	0.0030200	0.0000000
Lead	220.3	-0.0026440	0.0000000	0.0000000	0.0000000	0.0000000
Nickel	231.6	-0.0000220	0.0000000	0.0000000	0.0000000	0.0000000
Selenium	196.0	0.0000830	0.0000000	0.0000000	0.0000000	0.0000000
Silver	328.0	-0.0000590	0.0000000	0.0000000	0.0000000	0.0000000
Thallium	190.8	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000
Tin	189.9	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000
Zinc	206.2	0.0001730	0.0000000	0.0000000	0.0000000	0.0000000

Comments:

FORM XA-IN

USEPA - CLP

10A-IN
ICP-AES INTERELEMENT CORRECTION FACTORS (ANNUALLY)

Lab Name: Empirical Laboratories, LLC Contract: Tetra Tech NUS, Inc. (T010)

SDG No.: 1110003

ICP-AES Instrument ID: Thermo Jarrell Ashe ICAP Date: 9/11/2009

Analyte	Wave-length (nm)	Interelement Correction Factors for:				
		Se	Sn	Ti	Tl	V
Antimony	206.8	0.0000000	0.0000000	0.0004790	0.0000000	-0.0017000
Arsenic	189.0	0.0000000	0.0000000	0.0000750	0.0000000	0.0000000
Barium	233.5	0.0000000	0.0000000	0.0000000	0.0000000	-0.0017020
Beryllium	313.0	0.0000000	0.0000000	0.0000000	0.0000000	0.0001050
Cadmium	228.8	0.0000000	0.0000000	0.0000000	0.0000000	0.0000560
Chromium	267.7	0.0000000	0.0000000	0.0000000	0.0000000	-0.0000700
Copper	224.7	0.0000000	0.0000000	0.0002300	0.0000000	0.0000000
Lead	220.3	0.0000000	0.0000000	0.0000000	0.0000000	-0.0000360
Nickel	231.6	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000
Selenium	196.0	0.0000000	0.0000000	0.0000220	0.0000000	0.0000540
Silver	328.0	0.0000000	0.0000000	0.0000000	0.0000000	-0.0064060
Thallium	190.8	0.0000000	0.0000000	-0.0012830	0.0000000	0.0004040
Tin	189.9	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000
Zinc	206.2	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000

Comments:

FORM XA-IN

USEPA - CLP

10A-IN
ICP-AES INTERELEMENT CORRECTION FACTORS (ANNUALLY)

Lab Name: Empirical Laboratories, LLC Contract: Tetra Tech NUS, Inc. (T010)

SDG No.: 1110003

ICP-AES Instrument ID: Thermo Jarrell Ashe ICAP Date: 9/11/2009

Analyte	Wave-length (nm)	Interelement Correction Factors for: Zn				
Antimony	206.8	0.0000000				
Arsenic	189.0	0.0000000				
Barium	233.5	0.0000000				
Beryllium	313.0	0.0000000				
Cadmium	228.8	0.0000000				
Chromium	267.7	0.0000000				
Copper	224.7	0.0000000				
Lead	220.3	0.0000000				
Nickel	231.6	0.0000000				
Selenium	196.0	0.0000000				
Silver	328.0	0.0000000				
Thallium	190.8	0.0000000				
Tin	189.9	0.0000000				
Zinc	206.2	0.0000000				

Comments:

FORM XA-IN

ICP-AES AND ICP-MS LINEAR RANGES (QUARTERLY)

Lab Name: Empirical Laboratories, LLC

Client: Tetra Tech NUS, Inc. (T010) SDG: 1110003

Project: Navy Fuel Depot CTO JM46

ICP Instrument ID: ME-ICP Date: 09/11/2009

Analyte	Integ. Time (Sec.)	Concentration ug/L	M
Antimony	15	10000	P
Arsenic	15	10000	P
Barium	15	5000	P
Beryllium	15	10000	P
Cadmium	15	10000	P
Chromium	15	10000	P
Copper	15	10000	P
Lead	15	10000	P
Nickel	15	10000	P
Selenium	15	10000	P
Silver	15	2000	P
Thallium	15	10000	P
Tin	15	5000	P
Zinc	15	10000	P

PREPARATION BATCH SUMMARY

SW7470A

Laboratory: Empirical Laboratories, LLC SDG: 1110003

Client: Tetra Tech NUS, Inc. (T010) Project: Navy Fuel Depot CTO JM46

Batch: 1J13024 Batch Matrix: Water Preparation: pMercury-W SW 7470A

SAMPLE NAME	LAB SAMPLE ID	DATE PREPARED	INITIAL VOL./WEIGHT	FINAL VOL.
FLC-4-MW01-092911	1110003-01	10/13/11 10:57	30.00	30.00
FLC-4-MW01-092911	1110003-02	10/13/11 10:57	30.00	30.00
FLC-4-MW02-092911	1110003-03	10/13/11 10:57	30.00	30.00
FLC-4-MW02-092911	1110003-04	10/13/11 10:57	30.00	30.00
FLC-5-MW05-092911	1110003-05	10/13/11 10:57	30.00	30.00
FLC-5-MW05-092911	1110003-06	10/13/11 10:57	30.00	30.00
FLC-5-MW04-092911	1110003-07	10/13/11 10:57	30.00	30.00
FLC-5-MW04-092911	1110003-08	10/13/11 10:57	30.00	30.00
FLC-5-MW03-092911	1110003-09	10/13/11 10:57	30.00	30.00
Blank	1J13024-BLKI	10/13/11 10:57	30.00	30.00
Blank	1J13024-BLKI	10/13/11 10:57	30.00	30.00
LCS	1J13024-BS1	10/13/11 10:57	30.00	30.00
LCS	1J13024-BS1	10/13/11 10:57	30.00	30.00

PREPARATION BATCH SUMMARY

SW7470A

Laboratory: Empirical Laboratories, LLC SDG: 1110003

Client: Tetra Tech NUS, Inc. (T010) Project: Navy Fuel Depot CTO JM46

Batch: 1J13025 Batch Matrix: Water Preparation: pMercury-W SW 7470A

SAMPLE NAME	LAB SAMPLE ID	DATE PREPARED	INITIAL VOL./WEIGHT	FINAL VOL.
FLC-5-MW03-092911	1110003-10	10/13/11 11:01	30.00	30.00
FLC-RB02-092911	1110003-11	10/13/11 11:01	30.00	30.00
FLC-5-MW01-092911	1110003-12	10/13/11 11:01	30.00	30.00
FLC-5-MW01-092911	1110003-13	10/13/11 11:01	30.00	30.00
FLC-5-MW02-092911	1110003-14	10/13/11 11:01	30.00	30.00
FLC-5-MW02-092911	1110003-15	10/13/11 11:01	30.00	30.00
Blank	1J13025-BLK1	10/13/11 11:01	30.00	30.00
Blank	1J13025-BLK1	10/13/11 11:01	30.00	30.00
LCS	1J13025-BS1	10/13/11 11:01	30.00	30.00
LCS	1J13025-BS1	10/13/11 11:01	30.00	30.00
FLC-5-MW01-092911	1J13025-MS1	10/13/11 11:01	30.00	30.00
FLC-5-MW01-092911	1J13025-MS2	10/13/11 11:01	30.00	30.00
FLC-5-MW01-092911	1J13025-MSD1	10/13/11 11:01	30.00	30.00
FLC-5-MW01-092911	1J13025-MSD2	10/13/11 11:01	30.00	30.00

PREPARATION BATCH SUMMARY

SW6010C

Laboratory: Empirical Laboratories, LLC SDG: 1110003

Client: Tetra Tech NUS, Inc. (T010) Project: Navy Fuel Depot CTO JM46

Batch: 1K08018 Batch Matrix: Water Preparation: MET_3005A_LOW

SAMPLE NAME	LAB SAMPLE ID	DATE PREPARED	INITIAL VOL./WEIGHT	FINAL VOL.
FLC-4-MW01-092911	1110003-17	11/08/11 11:34	100.00	25.00
FLC-4-MW01-092911	1110003-18	11/08/11 11:34	100.00	25.00
FLC-4-MW02-092911	1110003-19	11/08/11 11:34	100.00	25.00
FLC-4-MW02-092911	1110003-20	11/08/11 11:34	100.00	25.00
FLC-5-MW05-092911	1110003-21	11/08/11 11:34	100.00	25.00
FLC-5-MW05-092911	1110003-22	11/08/11 11:34	100.00	25.00
FLC-5-MW04-092911	1110003-23	11/08/11 11:34	100.00	25.00
FLC-5-MW04-092911	1110003-24	11/08/11 11:34	100.00	25.00
FLC-5-MW03-092911	1110003-25	11/08/11 11:34	100.00	25.00
FLC-5-MW03-092911	1110003-26	11/08/11 11:34	100.00	25.00
FLC-RB02-092911	1110003-27	11/08/11 11:34	100.00	25.00
FLC-5-MW01-092911	1110003-28	11/08/11 11:34	100.00	25.00
FLC-5-MW01-092911	1110003-29	11/08/11 11:34	100.00	25.00
FLC-5-MW02-092911	1110003-30	11/08/11 11:34	100.00	25.00
FLC-5-MW02-092911	1110003-31	11/08/11 11:34	100.00	25.00
Blank	1K08018-BLK1	11/08/11 11:34	100.00	25.00
LCS	1K08018-BS1	11/08/11 11:34	100.00	25.00
FLC-5-MW01-092911	1K08018-DUP1	11/08/11 11:34	100.00	25.00
FLC-5-MW01-092911	1K08018-DUP2	11/08/11 11:34	100.00	25.00
FLC-5-MW01-092911	1K08018-DUP3	11/08/11 11:34	100.00	25.00
FLC-5-MW01-092911	1K08018-DUP4	11/08/11 11:34	100.00	25.00
FLC-5-MW01-092911	1K08018-MS1	11/08/11 11:34	100.00	25.00
FLC-5-MW01-092911	1K08018-MS2	11/08/11 11:34	100.00	25.00
FLC-5-MW01-092911	1K08018-PS1	11/08/11 11:34	100.00	25.00
FLC-5-MW01-092911	1K08018-PS2	11/08/11 11:34	100.00	25.00

ANALYSIS SEQUENCE SUMMARY

SW7470A

Laboratory:	Empirical Laboratories, LLC	SDG:	1110003
Client:	Tetra Tech NUS, Inc. (T010)	Project:	Navy Fuel Depot CTO JM46
Sequence:	1J29111	Instrument:	ME-FIMS
Calibration:	1291003		

Sample Name	Lab Sample ID	Lab File ID	Analysis Date/Time
Cal Standard	1J29111-CAL1	101411W-002	10/14/11 13:06
Cal Standard	1J29111-CAL2	101411W-003	10/14/11 13:07
Cal Standard	1J29111-CAL3	101411W-004	10/14/11 13:08
Cal Standard	1J29111-CAL4	101411W-005	10/14/11 13:09
Cal Standard	1J29111-CAL5	101411W-006	10/14/11 13:10
Cal Standard	1J29111-CAL6	101411W-007	10/14/11 13:12
Cal Standard	1J29111-CAL7	101411W-008	10/14/11 13:13
Cal Standard	1J29111-CAL8	101411W-009	10/14/11 13:14
Initial Cal Check	1J29111-ICV1	101411W-010	10/14/11 13:17
Initial Cal Blank	1J29111-ICB1	101411W-011	10/14/11 13:18
Instrument RL Check	1J29111-CRL1	101411W-012	10/14/11 13:19
LCS	1J13024-BS1	101411W-013	10/14/11 13:20
LCS	1J13024-BS1	101411W-013	10/14/11 13:20
Blank	1J13024-BLKI	101411W-014	10/14/11 13:21
Blank	1J13024-BLKI	101411W-014	10/14/11 13:21
Calibration Check	1J29111-CCV1	101411W-022	10/14/11 13:29
Calibration Blank	1J29111-CCB1	101411W-023	10/14/11 13:30
FLC-4-MW01-092911	1110003-01	101411W-030	10/14/11 13:36
FLC-4-MW01-092911	1110003-02	101411W-031	10/14/11 13:37
FLC-4-MW02-092911	1110003-03	101411W-032	10/14/11 13:38
Calibration Check	1J29111-CCV2	101411W-034	10/14/11 13:39
FLC-4-MW02-092911	1110003-04	101411W-033	10/14/11 13:39
FLC-5-MW05-092911	1110003-05	101411W-036	10/14/11 13:41
Calibration Blank	1J29111-CCB2	101411W-035	10/14/11 13:41
FLC-5-MW05-092911	1110003-06	101411W-037	10/14/11 13:42
FLC-5-MW04-092911	1110003-07	101411W-038	10/14/11 13:43
FLC-5-MW04-092911	1110003-08	101411W-039	10/14/11 13:44
FLC-5-MW03-092911	1110003-09	101411W-040	10/14/11 13:45
LCS	1J13025-BS1	101411W-041	10/14/11 13:46
LCS	1J13025-BS1	101411W-041	10/14/11 13:46
Blank	1J13025-BLK1	101411W-042	10/14/11 13:47
Blank	1J13025-BLK1	101411W-042	10/14/11 13:47

ANALYSIS SEQUENCE SUMMARY

SW7470A

Laboratory:	Empirical Laboratories, LLC	SDG:	1110003
Client:	Tetra Tech NUS, Inc. (T010)	Project:	Navy Fuel Depot CTO JM46
Sequence:	1J29111	Instrument:	ME-FIMS
Calibration:	1291003		

Sample Name	Lab Sample ID	Lab File ID	Analysis Date/Time
FLC-5-MW03-092911	1110003-10	101411W-043	10/14/11 13:48
FLC-RB02-092911	1110003-11	101411W-044	10/14/11 13:49
FLC-5-MW01-092911	1110003-12	101411W-045	10/14/11 13:50
Calibration Check	1J29111-CCV3	101411W-046	10/14/11 13:51
Calibration Blank	1J29111-CCB3	101411W-047	10/14/11 13:52
FLC-5-MW01-092911	1J13025-MS1	101411W-048	10/14/11 13:53
FLC-5-MW01-092911	1J13025-MSD1	101411W-049	10/14/11 13:54
FLC-5-MW01-092911	1110003-13	101411W-050	10/14/11 13:55
FLC-5-MW01-092911	1J13025-MS2	101411W-051	10/14/11 13:56
FLC-5-MW01-092911	1J13025-MSD2	101411W-052	10/14/11 13:57
FLC-5-MW02-092911	1110003-14	101411W-053	10/14/11 13:58
FLC-5-MW02-092911	1110003-15	101411W-054	10/14/11 13:59
Calibration Check	1J29111-CCV4	101411W-058	10/14/11 14:03
Calibration Blank	1J29111-CCB4	101411W-059	10/14/11 14:04

ANALYSIS SEQUENCE SUMMARY

SW6010C

Laboratory:	Empirical Laboratories, LLC	SDG:	1110003
Client:	Tetra Tech NUS, Inc. (T010)	Project:	Navy Fuel Depot CTO JM46
Sequence:	1K32008	Instrument:	ME-ICP
Calibration:	1320005		

Sample Name	Lab Sample ID	Lab File ID	Analysis Date/Time
Cal Standard	1K32008-CAL1	111111A-001	11/11/11 09:53
Cal Standard	1K32008-CAL2	111111A-002	11/11/11 09:57
Cal Standard	1K32008-CAL3	111111A-003	11/11/11 10:01
Cal Standard	1K32008-CAL4	111111A-004	11/11/11 10:06
Cal Standard	1K32008-CAL6	111111A-006	11/11/11 10:16
Initial Cal Check	1K32008-ICV1	111111B-001	11/11/11 11:01
Initial Cal Blank	1K32008-ICB1	111111B-002	11/11/11 11:08
Instrument RL Check	1K32008-CRL1	111111B-003	11/11/11 11:13
Instrument RL Check	1K32008-CRL2	111111B-004	11/11/11 11:17
Interference Check A	1K32008-IFA1	111111B-005	11/11/11 11:22
Interference Check B	1K32008-IFB1	111111B-006	11/11/11 11:30
Calibration Check	1K32008-CCV1	111111B-008	11/11/11 11:43
Calibration Blank	1K32008-CCB1	111111B-009	11/11/11 11:50
Calibration Check	1K32008-CCV6	111111C-043	11/11/11 19:15
Calibration Blank	1K32008-CCB6	111111C-044	11/11/11 19:22
Blank	1K08018-BLK1	111111C-045	11/11/11 19:27
LCS	1K08018-BS1	111111C-046	11/11/11 19:32
FLC-4-MW01-092911	1110003-17	111111C-049	11/11/11 19:47
FLC-4-MW01-092911	1110003-18	111111C-050	11/11/11 19:52
FLC-4-MW02-092911	1110003-19	111111C-051	11/11/11 19:56
FLC-4-MW02-092911	1110003-20	111111C-052	11/11/11 20:01
FLC-5-MW05-092911	1110003-21	111111C-053	11/11/11 20:05
FLC-5-MW05-092911	1110003-22	111111C-054	11/11/11 20:10
FLC-5-MW04-092911	1110003-23	111111C-055	11/11/11 20:14
FLC-5-MW04-092911	1110003-24	111111C-056	11/11/11 20:19
Calibration Check	1K32008-CCV7	111111C-057	11/11/11 20:25
Calibration Blank	1K32008-CCB7	111111C-058	11/11/11 20:32
FLC-5-MW03-092911	1110003-25	111111C-059	11/11/11 20:37
FLC-5-MW03-092911	1110003-26	111111C-060	11/11/11 20:41
FLC-RB02-092911	1110003-27	111111C-061	11/11/11 20:46
FLC-5-MW01-092911	1110003-28	111111C-062	11/11/11 20:50
FLC-5-MW01-092911	1K08018-DUP2	111111C-063	11/11/11 20:55

ANALYSIS SEQUENCE SUMMARY

SW6010C

Laboratory:	Empirical Laboratories, LLC	SDG:	1110003
Client:	Tetra Tech NUS, Inc. (T010)	Project:	Navy Fuel Depot CTO JM46
Sequence:	1K32008	Instrument:	ME-ICP
Calibration:	1320005		

Sample Name	Lab Sample ID	Lab File ID	Analysis Date/Time
FLC-5-MW01-092911	1K08018-MS1	111111C-064	11/11/11 21:00
FLC-5-MW01-092911	1K08018-PS1	111111C-065	11/11/11 21:04
FLC-5-MW01-092911	1K08018-DUP1	111111C-066	11/11/11 21:10
FLC-5-MW01-092911	1110003-29	111111C-067	11/11/11 21:14
FLC-5-MW01-092911	1K08018-DUP4	111111C-068	11/11/11 21:19
FLC-5-MW01-092911	1K08018-MS2	111111C-069	11/11/11 21:23
FLC-5-MW01-092911	1K08018-PS2	111111C-070	11/11/11 21:28
FLC-5-MW01-092911	1K08018-DUP3	111111C-071	11/11/11 21:33
FLC-5-MW02-092911	1110003-30	111111C-072	11/11/11 21:38
FLC-5-MW02-092911	1110003-31	111111C-073	11/11/11 21:42
Calibration Check	1K32008-CCV8	111111C-074	11/11/11 21:48
Calibration Blank	1K32008-CCB8	111111C-075	11/11/11 21:55

INITIAL CALIBRATION DATA

SW7470A

Laboratory:	Empirical Laboratories, LLC	SDG:	1110003
Client:	Tetra Tech NUS, Inc. (T010)	Project:	Navy Fuel Depot CTO JM46
Calibration:	1291003	Instrument:	ME-FIMS
Matrix:	Water	Calibration Dates:	10/14/11 13:06 10/14/11 13:14

Compound	Level 01		Level 02		Level 03		Level 04		Level 05		Level 06	
	ug/L	RF	ug/L	RF	ug/L	RF	ug/L	RF	ug/L	RF	ug/L	RF
Mercury	10	0.012229	6	1.210333E-02	4	0.012895	2	0.012775	1	0.01295	0.5	0.01212
Mercury	10	0.012229	6	1.210333E-02	4	0.012895	2	0.012775	1	0.01295	0.5	0.01212

INITIAL CALIBRATION DATA (Continued)

SW7470A

Laboratory:	Empirical Laboratories, LLC	SDG:	1110003
Client:	Tetra Tech NUS, Inc. (T010)	Project:	Navy Fuel Depot CTO JM46
Calibration:	1291003	Instrument:	ME-FIMS
Matrix:	Water	Calibration Dates:	10/14/11 13:06 10/14/11 13:14

Compound	Level 07		Level 08		Level 09		Level 10		Level 11		Level 12	
	ug/L	RF	ug/L	RF	ug/L	RF	ug/L	RF	ug/L	RF	ug/L	RF
Mercury	0.2	0.0119	0	0								
Mercury	0.2	0.0119	0	0								

INITIAL CALIBRATION DATA (Continued)

SW7470A

Laboratory:	Empirical Laboratories, LLC	SDG:	1110003
Client:	Tetra Tech NUS, Inc. (T010)	Project:	Navy Fuel Depot CTO JM46
Calibration:	1291003	Instrument:	ME-FIMS
Matrix:	Water	Calibration Dates:	10/14/11 13:06 10/14/11 13:14

Compound	Mean RF	RF RSD	Mean RT	RT RSD	Linear r	Quad COD	LIMIT	Q
Mercury	1.087154E-02	40.5747	0	0	0.9994153		0.995	
Mercury	1.087154E-02	40.5747	0	0	0.999406		0.995	

INITIAL CALIBRATION DATA

SW6010C

Laboratory:	Empirical Laboratories, LLC	SDG:	1110003
Client:	Tetra Tech NUS, Inc. (T010)	Project:	Navy Fuel Depot CTO JM46
Calibration:	1320005	Instrument:	ME-ICP
Matrix:	Water	Calibration Dates:	11/11/11 9:53 11/11/11 10:26

Compound	Level 01		Level 02		Level 03		Level 04		Level 05		Level 06	
	ug/L	RF	ug/L	RF	ug/L	RF	ug/L	RF	ug/L	RF	ug/L	RF
Aluminum	0	0	5000	2.1608E-05	10000	2.1213E-05			500000	2.153E-05		
Antimony	0	0	100	0.0005209	1000	5.2385E-04					10000	0.0005092
Arsenic	0	0	100	0.0003221	1000	3.3552E-04					10000	3.2962E-04
Barium	0	0	50	0.0109042	1000	0.010117	5000	0.0104832				
Beryllium	0	0	100	0.0027404	1000	0.0027181					10000	0.0026767
Boron	0	0	50	0.0000148	1000	0.0000145					5000	1.445E-05
Cadmium	0	0	100	0.016187	1000	0.016128					10000	0.015325
Calcium	0	0	1100	6.495455E-05	50000	6.2184E-05					10000	
Chromium	0	0	100	0.0000493	1000	0.0000471					10000	4.7397E-05
Cobalt	0	0	100	0.0047153	1000	0.0045193					10000	0.0045333
Copper	0	0	100	0.0000645	1000	5.948E-05					10000	5.8055E-05
Iron	0	0	5100	1.996078E-05	10000	1.9072E-05			500000	1.88676E-05	10000	
Lead	0	0	100	0.0012682	1000	0.001206					10000	0.001221
Magnesium	0	0	5100		50000	2.5012E-06			500000	2.6066E-06	10000	
Manganese	0	0	100	0.0002821	1000	2.7017E-04	10000	2.7363E-04			10000	
Molybdenum	0	0	100	0.0035982	1000	0.0036375					10000	0.0036123
Nickel	0	0	100	0.0031621	1000	0.0030461					10000	0.0030713
Potassium	0	0	1000	8.95E-06	10000	1.2594E-05						
Selenium	0	0	100	0.0003773	1000	3.7424E-04					10000	0.0003633
Silver	0	0	20	0.000062	500	5.814E-05	2000	6.1745E-05				
Sodium	0	0	1000		50000	3.774E-05						
Thallium	0	0	100	0.0007058	1000	0.0006843					10000	6.9765E-04
Tin	0	0	50	0.0012638	1000	0.0012628					5000	0.001271
Titanium	0	0	100	0.0002244	1000	2.1592E-04					10000	2.1299E-04
Vanadium	0	0	100	0.0000521	1000	5.086E-05					10000	5.0965E-05
Zinc	0	0	100	0.0067105	1000	0.0066699					10000	0.0065441
Strontium	0	0	100	0.001605	1000	0.001557					10000	0.001539
Aluminum	0	0	5000	2.1608E-05	10000	2.1213E-05			500000	2.153E-05		
Antimony	0	0	100	0.0005209	1000	5.2385E-04					10000	0.0005092
Arsenic	0	0	100	0.0003221	1000	3.3552E-04					10000	3.2962E-04
Barium	0	0	50	0.0109042	1000	0.010117	5000	0.0104832				

INITIAL CALIBRATION DATA

SW6010C

Laboratory:	Empirical Laboratories, LLC	SDG:	1110003
Client:	Tetra Tech NUS, Inc. (T010)	Project:	Navy Fuel Depot CTO JM46
Calibration:	1320005	Instrument:	ME-ICP
Matrix:	Water	Calibration Dates:	11/11/11 9:53 11/11/11 10:26

Compound	Level 01		Level 02		Level 03		Level 04		Level 05		Level 06	
	ug/L	RF	ug/L	RF	ug/L	RF	ug/L	RF	ug/L	RF	ug/L	RF
Beryllium	0	0	100	0.0027404	1000	0.0027181					10000	0.0026767
Boron	0	0	50	0.0000148	1000	0.0000145					5000	1.445E-05
Cadmium	0	0	100	0.016187	1000	0.016128					10000	0.015325
Calcium	0	0	1100	6.495455E-05	50000	6.2184E-05					10000	
Chromium	0	0	100	0.0000493	1000	0.0000471					10000	4.7397E-05
Cobalt	0	0	100	0.0047153	1000	0.0045193					10000	0.0045333
Copper	0	0	100	0.0000645	1000	5.948E-05					10000	5.8055E-05
Iron	0	0	5100	1.996078E-05	10000	1.9072E-05			500000	1.88676E-05	10000	
Lead	0	0	100	0.0012682	1000	0.001206					10000	0.001221
Magnesium	0	0	5100		50000	2.5012E-06			500000	2.6066E-06	10000	
Manganese	0	0	100	0.0002821	1000	2.7017E-04	10000	2.7363E-04			10000	
Molybdenum	0	0	100	0.0035982	1000	0.0036375					10000	0.0036123
Nickel	0	0	100	0.0031621	1000	0.0030461					10000	0.0030713
Potassium	0	0	1000	8.95E-06	10000	1.2594E-05						
Selenium	0	0	100	0.0003773	1000	3.7424E-04					10000	0.0003633
Silver	0	0	20	0.000062	500	5.814E-05	2000	6.1745E-05				
Sodium	0	0	1000		50000	3.774E-05						
Thallium	0	0	100	0.0007058	1000	0.0006843					10000	6.9765E-04
Tin	0	0	50	0.0012638	1000	0.0012628					5000	0.001271
Titanium	0	0	100	0.0002244	1000	2.1592E-04					10000	2.1299E-04
Vanadium	0	0	100	0.0000521	1000	5.086E-05					10000	5.0965E-05
Zinc	0	0	100	0.0067105	1000	0.0066699					10000	0.0065441

INITIAL CALIBRATION DATA (Continued)

SW6010C

Laboratory:	Empirical Laboratories, LLC	SDG:	1110003
Client:	Tetra Tech NUS, Inc. (T010)	Project:	Navy Fuel Depot CTO JM46
Calibration:	1320005	Instrument:	ME-ICP
Matrix:	Water	Calibration Dates:	11/11/11 9:53 11/11/11 10:26

Compound	Level 07		Level 08		Level 09		Level 10		Level 11		Level 12	
	ug/L	RF	ug/L	RF	ug/L	RF	ug/L	RF	ug/L	RF	ug/L	RF
Aluminum												
Antimony												
Arsenic												
Barium												
Beryllium												
Boron												
Cadmium												
Calcium	100000		500000	6.0054E-05								
Chromium												
Cobalt												
Copper												
Iron												
Lead												
Magnesium			100000	2.4559E-06								
Manganese												
Molybdenum												
Nickel												
Potassium	100000	1.3291E-05										
Selenium												
Silver												
Sodium	100000	3.8676E-05	500000	3.7882E-05								
Thallium												
Tin												
Titanium												
Vanadium												
Zinc												
Strontium												
Aluminum												
Antimony												
Arsenic												
Barium												

INITIAL CALIBRATION DATA (Continued)

SW6010C

Laboratory: Empirical Laboratories, LLC
SDG: 1110003
Client: Tetra Tech NUS, Inc. (T010)
Project: Navy Fuel Depot CTO JM46
Calibration: 1320005
Instrument: ME-ICP
Matrix: Water
Calibration Dates: 11/11/11 9:53 11/11/11 10:26

Compound	Level 07		Level 08		Level 09		Level 10		Level 11		Level 12	
	ug/L	RF	ug/L	RF	ug/L	RF	ug/L	RF	ug/L	RF	ug/L	RF
Beryllium												
Boron												
Cadmium												
Calcium	100000		500000	6.0054E-05								
Chromium												
Cobalt												
Copper												
Iron												
Lead												
Magnesium			100000	2.4559E-06								
Manganese												
Molybdenum												
Nickel												
Potassium	100000	1.3291E-05										
Selenium												
Silver												
Sodium	100000	3.8676E-05	500000	3.7882E-05								
Thallium												
Tin												
Titanium												
Vanadium												
Zinc												

INITIAL CALIBRATION DATA (Continued)

SW6010C

Laboratory:	Empirical Laboratories, LLC	SDG:	1110003
Client:	Tetra Tech NUS, Inc. (T010)	Project:	Navy Fuel Depot CTO JM46
Calibration:	1320005	Instrument:	ME-ICP
Matrix:	Water	Calibration Dates:	11/11/11 9:53 11/11/11 10:26

Compound	Mean RF	RF RSD	Mean RT	RT RSD	Linear r	Quad COD	LIMIT	Q
Aluminum	1.608775E-05	66.67512	6.305697	181.8778	0.9999999		0.998	
Antimony	3.884875E-04	66.68655	83.8594	199.2468	0.9999923		0.998	
Arsenic	2.4681E-04	66.70379	17.85221	193.6393	0.999996		0.998	
Barium	0.0078761	66.79162	0.4390525	137.6437	0.9999436		0.998	
Beryllium	0.0020338	66.6793	6.39263	188.0332	0.9999979		0.998	
Boron	1.09375E-05	66.68164	3.199575	158.7001	0.9999997		0.998	
Cadmium	0.01191	66.74836	6.91048	191.7931	0.9999748		0.998	
Calcium	4.679814E-05	66.80437	2.01512	130.4906	0.999988		0.998	
Chromium	3.594925E-05	66.72177	70.19844	197.9071	0.9999992		0.998	
Cobalt	3.441975E-03	66.71711	0.449335	57.69713	0.9999996		0.998	
Copper	4.550875E-05	66.9428	1.299625	65.66227	0.999997		0.998	
Iron	1.44751E-05	66.74721	800.3199	199.8684	0.9999998		0.998	
Lead	0.0009238	66.72837	8.026793	191.3218	0.9999979		0.998	
Magnesium	1.890925E-06	66.75022	24.34786	197.5786	0.9998726		0.998	
Manganese	2.06475E-04	66.71084	0.7776825	21.16397	0.9999979		0.998	
Molybdenum	0.002712	66.66936	16.75452	196.2171	0.9999995		0.998	
Nickel	2.319875E-03	66.70124	2.350808	178.6777	0.9999989		0.998	
Potassium	8.70875E-06	70.1582	2.14814	120.1306	0.9999947		0.998	
Selenium	2.7871E-04	66.70153	21.02337	195.5623	0.9999924		0.998	
Silver	4.547125E-05	66.77926	2.61144	140.8439	0.999756		0.998	
Sodium	2.85745E-05	66.68224	3.784958	172.8338	0.9999777		0.998	
Thallium	5.219375E-04	66.68829	2.639175	153.7703	0.9999964		0.998	
Tin	0.0009494	66.66778	3.64296	181.0898	0.9999984		0.998	
Titanium	1.633275E-04	66.73245	5.014593	184.4293	0.9999988		0.998	
Vanadium	3.848125E-05	66.68263	1.14411	89.3533	0.9999999		0.998	
Zinc	4.981125E-03	66.68184	9.980775	194.0673	0.9999967		0.998	
Strontium	1.17525E-03	66.70879	1.3526	90.4131	0.9999988		0.998	
Aluminum	1.608775E-05	66.67512	6.305697	181.8778	0.9999999		0.998	
Antimony	3.884875E-04	66.68655	83.8594	199.2468	0.9999923		0.998	
Arsenic	2.4681E-04	66.70379	17.85221	193.6393	0.999996		0.998	
Barium	0.0078761	66.79162	0.4390525	137.6437	0.9999436		0.998	
Beryllium	0.0020338	66.6793	6.39263	188.0332	0.9999979		0.998	

INITIAL CALIBRATION DATA (Continued)

SW6010C

Laboratory:	Empirical Laboratories, LLC	SDG:	1110003
Client:	Tetra Tech NUS, Inc. (T010)	Project:	Navy Fuel Depot CTO JM46
Calibration:	1320005	Instrument:	ME-ICP
Matrix:	Water	Calibration Dates:	11/11/11 9:53 11/11/11 10:26

Compound	Mean RF	RF RSD	Mean RT	RT RSD	Linear r	Quad COD	LIMIT	Q
Boron	1.09375E-05	66.68164	3.199575	158.7001	0.9999997		0.998	
Cadmium	0.01191	66.74836	6.91048	191.7931	0.9999748		0.998	
Calcium	4.679814E-05	66.80437	2.01512	130.4906	0.999988		0.998	
Chromium	3.594925E-05	66.72177	70.19844	197.9071	0.9999992		0.998	
Cobalt	3.441975E-03	66.71711	0.449335	57.69713	0.9999996		0.998	
Copper	4.550875E-05	66.9428	1.299625	65.66227	0.999997		0.998	
Iron	1.44751E-05	66.74721	800.3199	199.8684	0.9999998		0.998	
Lead	0.0009238	66.72837	8.026793	191.3218	0.9999979		0.998	
Magnesium	1.890925E-06	66.75022	24.34786	197.5786	0.9998726		0.998	
Manganese	2.06475E-04	66.71084	0.7776825	21.16397	0.9999979		0.998	
Molybdenum	0.002712	66.66936	16.75452	196.2171	0.9999995		0.998	
Nickel	2.319875E-03	66.70124	2.350808	178.6777	0.9999989		0.998	
Potassium	8.70875E-06	70.1582	2.14814	120.1306	0.9999947		0.998	
Selenium	2.7871E-04	66.70153	21.02337	195.5623	0.9999924		0.998	
Silver	4.547125E-05	66.77926	2.61144	140.8439	0.999756		0.998	
Sodium	2.85745E-05	66.68224	3.784958	172.8338	0.9999777		0.998	
Thallium	5.219375E-04	66.68829	2.639175	153.7703	0.9999964		0.998	
Tin	0.0009494	66.66778	3.64296	181.0898	0.9999984		0.998	
Titanium	1.633275E-04	66.73245	5.014593	184.4293	0.9999988		0.998	
Vanadium	3.848125E-05	66.68263	1.14411	89.3533	0.9999999		0.998	
Zinc	4.981125E-03	66.68184	9.980775	194.0673	0.9999967		0.998	

Data for SW6010C / SW7470A Supporting Raw Data/Logs

Sample Name: SEQ-CAL1 Acquired: 11/11/2011 9:53:09 Type: Cal
Method: DuoEnviroMethodNEW(v2459) Mode: IR Corr. Factor: 1.000000
User: rburr Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Ag3280	Al3961	As1890	As1972	B_2496	Ba2335	Be3130
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	**.00006**	**-.00063**	**-.00073**	**.00090**	**.00005**	**.00683**	**.00025**
Stddev	.00001	.00015	.00051	.00013	.00000	.00009	.00006
%RSD	8.1260	23.490	69.704	14.061	10.803	1.3427	24.420
#1	.00006	-.00072	-.00027	.00099	.00004	.00693	.00018
#2	.00006	-.00071	-.00065	.00076	.00005	.00679	.00028
#3	.00007	-.00046	-.00128	.00096	.00005	.00676	.00029

Elem	Ca3179	Cd2144	Cd2288	Co2286	Cr2677	Cu2199	Cu3247
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	**.00089**	**.00156**	**.03300**	**.00621**	**.00000**	**.0000**	**.00037**
Stddev	.00005	.00042	.00023	.00005	.0000	.0000	.00001
%RSD	5.9030	26.789	.69035	.77230	278.59	189.1	2.5498
#1	.00094	.00151	.03325	.00620	.00000	.0000	.00037
#2	.00084	.00200	.03291	.00618	-.00001	.0000	.00036
#3	.00087	.00117	.03282	.00627	.00001	.0000	.00038

Elem	Fe2611	K_7664	Mg2790	Mn2576	Mo2020	Na5895	Ni2316
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	**.00000**	**-.00428**	**.00003**	**.00004**	**.00063**	**-.00149**	**.00429**
Stddev	.0000	.00024	.00003	.00000	.00041	.00020	.00037
%RSD	3199.7	5.6515	96.507	.91322	66.067	13.566	8.6469
#1	.00000	-.00409	.00000	.00004	.00085	-.00155	.00470
#2	-.00004	-.00421	.00004	.00004	.00088	-.00166	.00398
#3	.00004	-.00455	.00004	.00004	.00015	-.00127	.00420

Elem	Pb2203	Sb2068	Se1960	Sn1899	Sr4215	Ti3349	Tl1908
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	**.00086**	**.00013**	**.00078**	**-.00113**	**-.0011**	**.00042**	**-.00148**
Stddev	.00027	.00045	.00064	.00015	.0000	.00008	.00013
%RSD	31.062	334.49	82.693	13.535	3.030	18.881	8.7042
#1	.00065	.00057	.00072	-.00102	-.0011	.00043	-.00134
#2	.00117	-.00033	.00017	-.00130	-.0011	.00034	-.00160
#3	.00077	.00016	.00145	-.00107	-.0012	.00050	-.00150

Sample Name: SEQ-CAL1 Acquired: 11/11/2011 9:53:09 Type: Cal
Method: DuoEnviroMethodNEW(v2459) Mode: IR Corr. Factor: 1.000000
User: rburr Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	V_2924	Zn2062
Units	Cts/S	Cts/S
Avg	**.00003**	**.00118**
Stddev	.00000	.00046
%RSD	2.6758	39.034
#1	.00003	.00128
#2	.00003	.00068
#3	.00003	.00158

Int. Std.	Sc1880	Sc3613	Sc3613-2
Units	Cts/S	Cts/S	Cts/S
Avg	2795.8	752290.	42501.
Stddev	5.2	5175.	126.
%RSD	.18557	.68790	.29743
#1	2789.8	746830.	42557.
#2	2799.2	752920.	42357.
#3	2798.4	757130.	42590.

Sample Name: SEQ-CAL2 Acquired: 11/11/2011 9:57:38 Type: Cal
Method: DuoEnviroMethodNEW(v2459) Mode: IR Corr. Factor: 1.000000
User: rburr Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Ag3280	Al3961	As1890	As1972	B_2496	Ba2335	Be3130	Ca3179
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	**.00124**	**.10804**	**.03221**	**.02383**	**.00074**	**.54521**	**.27404**	**.07145**
Stddev	.00001	.00024	.00029	.00041	.00001	.00074	.00110	.00041
%RSD	.91927	.22032	.90902	1.7079	1.0579	.13646	.40078	.57807
#1	.00123	.10826	.03195	.02425	.00073	.54442	.27451	.07178
#2	.00123	.10807	.03217	.02379	.00073	.54590	.27482	.07158
#3	.00125	.10778	.03253	.02344	.00075	.54530	.27278	.07099

Elem	Cd2144	Cd2288	Co2286	Cr2677	Cu2199	Cu3247	Fe2611	K_7664
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	**1.6187**	**.79175**	**.47153**	**.00493**	**.0003**	**.00645**	**.10180**	**.00895**
Stddev	.0014	.00092	.00154	.00004	.0000	.00005	.00022	.00023
%RSD	.08578	.11578	.32738	.75865	.5664	.69892	.21351	2.5215
#1	1.6200	.79157	.47083	.00493	.0003	.00644	.10167	.00872
#2	1.6173	.79094	.47046	.00489	.0003	.00642	.10205	.00897
#3	1.6189	.79275	.47330	.00496	.0003	.00650	.10167	.00917

Elem	Mn2576	Mo2020	Ni2316	Pb2203	Sb2068	Se1960	Sn1899	Sr4215
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	**.02821**	**.35982**	**.31621**	**.12682**	**.05209**	**.03773**	**.06319**	**.1605**
Stddev	.00015	.00093	.00046	.00038	.00019	.00029	.00026	.0006
%RSD	.54236	.25714	.14664	.29871	.36661	.76555	.41911	.3486
#1	.02823	.35907	.31607	.12682	.05205	.03768	.06344	.1612
#2	.02805	.35953	.31583	.12720	.05230	.03747	.06321	.1602
#3	.02835	.36085	.31672	.12644	.05192	.03804	.06291	.1602

Elem	Ti3349	Tl1908	V_2924	Zn2062
Units	Cts/S	Cts/S	Cts/S	Cts/S
Avg	**.02244**	**.07058**	**.00521**	**.67105**
Stddev	.00012	.00078	.00004	.00187
%RSD	.54235	1.0993	.68289	.27839
#1	.02248	.06969	.00522	.67067
#2	.02253	.07113	.00518	.66940
#3	.02230	.07092	.00525	.67308

Sample Name: SEQ-CAL2 Acquired: 11/11/2011 9:57:38 Type: Cal
Method: DuoEnviroMethodNEW(v2459) Mode: IR Corr. Factor: 1.000000
User: rburr Custom ID1: Custom ID2: Custom ID3:
Comment:

Int. Std.	Sc1880	Sc3613	Sc3613-2
Units	Cts/S	Cts/S	Cts/S
Avg	2803.4	766460.	43523.
Stddev	4.4	3381.	203.
%RSD	.15743	.44112	.46685
#1	2806.6	766220.	43466.
#2	2805.2	769960.	43355.
#3	2798.4	763210.	43749.

Sample Name: SEQ-CAL3 Acquired: 11/11/2011 10:01:59 Type: Cal
Method: DuoEnviroMethodNEW(v2459) Mode: IR Corr. Factor: 1.000000
User: rburr Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Ag3280	Al3961	As1890	As1972	B_2496	Ba2335	Be3130	Ca3179
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	**.02907**	**.21213**	**.33552**	**.23654**	**.01450**	**10.117**	**2.7181**	**3.1092**
Stddev	.00019	.00038	.00087	.00055	.00009	.008	.0029	.0081
%RSD	.64974	.17937	.25809	.23179	.60250	.07995	.10545	.26081
#1	.02928	.21255	.33463	.23717	.01460	10.122	2.7148	3.1164
#2	.02902	.21202	.33556	.23616	.01444	10.108	2.7201	3.1107
#3	.02892	.21182	.33636	.23629	.01447	10.122	2.7194	3.1004

Elem	Cd2144	Cd2288	Co2286	Cr2677	Cu2199	Cu3247	Fe2611	K_7664
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	**16.128**	**7.6836**	**4.5193**	**.04710**	**.0025**	**.05948**	**.19072**	**.12594**
Stddev	.034	.0111	.0078	.00038	.0000	.00049	.00018	.00046
%RSD	.21302	.14488	.17240	.79700	.6241	.81678	.09571	.36895
#1	16.113	7.6869	4.5233	.04753	.0025	.05999	.19054	.12630
#2	16.104	7.6712	4.5103	.04689	.0025	.05942	.19071	.12541
#3	16.167	7.6927	4.5242	.04688	.0025	.05902	.19090	.12610

Elem	Mg2790	Mn2576	Mo2020	Na5895	Ni2316	Pb2203	Sb2068	Se1960
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	**.12506**	**.27017**	**3.6375**	**1.8870**	**3.0461**	**1.2060**	**.52385**	**.37424**
Stddev	.00035	.00214	.0073	.0038	.0041	.0035	.00043	.00068
%RSD	.27860	.79192	.19948	.20194	.13419	.28857	.08272	.18149
#1	.12541	.27249	3.6350	1.8826	3.0451	1.2024	.52434	.37412
#2	.12506	.26828	3.6317	1.8896	3.0426	1.2063	.52369	.37363
#3	.12471	.26973	3.6456	1.8887	3.0506	1.2093	.52352	.37497

Elem	Sn1899	Sr4215	Ti3349	Tl1908	V_2924	Zn2062
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	**1.2628**	**1.557**	**.21592**	**.68430**	**.05086**	**6.6699**
Stddev	.0013	.009	.00136	.00200	.00033	.0079
%RSD	.10345	.5478	.62900	.29177	.65095	.11874
#1	1.2637	1.565	.21708	.68393	.05124	6.6724
#2	1.2613	1.559	.21626	.68252	.05062	6.6610
#3	1.2634	1.548	.21443	.68646	.05073	6.6762

Sample Name: SEQ-CAL3 Acquired: 11/11/2011 10:01:59 Type: Cal
Method: DuoEnviroMethodNEW(v2459) Mode: IR Corr. Factor: 1.000000
User: rburr Custom ID1: Custom ID2: Custom ID3:
Comment:

Int. Std.	Sc1880	Sc3613	Sc3613-2
Units	Cts/S	Cts/S	Cts/S
Avg	2618.0	734870.	43019.
Stddev	5.1	4676.	139.
%RSD	.19477	.63626	.32271
#1	2621.3	729480.	42867.
#2	2620.6	737860.	43051.
#3	2612.2	737270.	43139.

Sample Name: SEQ-CAL4 Acquired: 11/11/2011 10:06:18 Type: Cal
Method: DuoEnviroMethodNEW(v2459) Mode: IR Corr. Factor: 1.000000
User: rburr Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Ag3280	Ba2335	Mn2576
Units	Cts/S	Cts/S	Cts/S
Avg	**.12349**	**52.416**	**2.7363**
Stddev	.00093	.103	.0236
%RSD	.75075	.19710	.86323
#1	.12382	52.379	2.7145
#2	.12245	52.337	2.7329
#3	.12422	52.533	2.7614

Int. Std.	Sc1880	Sc3613
Units	Cts/S	Cts/S
Avg	2859.3	763710.
Stddev	6.2	6243.
%RSD	.21746	.81745
#1	2863.7	765780.
#2	2862.0	768660.
#3	2852.2	756700.

Sample Name: SEQ-CAL5 Acquired: 11/11/2011 10:11:23 Type: Cal
Method: DuoEnviroMethodNEW(v2459) Mode: IR Corr. Factor: 1.000000
User: rburr Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Al3961	Fe2611	Mg2790
Units	Cts/S	Cts/S	Cts/S
Avg	**10.765**	**9.4338**	**1.3033**
Stddev	.143	.1199	.0052
%RSD	1.3331	1.2705	.40011
#1	10.714	9.5676	1.3086
#2	10.654	9.3974	1.3032
#3	10.927	9.3363	1.2982

Int. Std.	Sc3613-2
Units	Cts/S
Avg	41978.
Stddev	78.
%RSD	.18479
#1	41921.
#2	41947.
#3	42066.

Sample Name: SEQ-CAL6 Acquired: 11/11/2011 10:16:40 Type: Cal
Method: DuoEnviroMethodNEW(v2459) Mode: IR Corr. Factor: 1.000000
User: rburr Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	As1890	As1972	B_2496	Be3130	Cd2144	Cd2288	Co2286	Cr2677
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	**3.2962**	**2.2927**	**.07225**	**26.767**	**153.25**	**73.993**	**45.333**	**.47397**
Stddev	.0177	.0112	.00024	.172	.85	.314	.238	.00307
%RSD	.53772	.48698	.33490	.64429	.55412	.42456	.52526	.64811
#1	3.2792	2.2897	.07201	26.570	152.56	73.743	45.229	.47708
#2	3.2950	2.2834	.07224	26.886	153.00	73.891	45.165	.47094
#3	3.3145	2.3051	.07250	26.846	154.20	74.346	45.606	.47389

Elem	Cu2199	Cu3247	Mo2020	Ni2316	Pb2203	Sb2068	Se1960	Sn1899
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	**.0257**	**.58055**	**36.123**	**30.713**	**12.210**	**5.0920**	**3.6330**	**6.3550**
Stddev	.0001	.00658	.179	.146	.056	.0254	.0165	.0327
%RSD	.1954	1.1330	.49447	.47550	.45789	.49828	.45345	.51428
#1	.0256	.57443	35.987	30.621	12.192	5.0809	3.6208	6.3399
#2	.0256	.57972	36.057	30.636	12.165	5.0741	3.6263	6.3326
#3	.0257	.58751	36.326	30.881	12.273	5.1210	3.6517	6.3925

Elem	Sr4215	Ti3349	Tl1908	V_2924	Zn2062
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	**15.39**	**2.1299**	**6.9765**	**.50965**	**65.441**
Stddev	.23	.0001	.0322	.00289	.322
%RSD	1.484	.00602	.46143	.56680	.49197
#1	15.62	2.1298	6.9541	.50662	65.372
#2	15.16	2.1299	6.9620	.50998	65.160
#3	15.39	2.1301	7.0134	.51237	65.792

Int. Std.	Sc1880	Sc3613	Sc3613-2
Units	Cts/S	Cts/S	Cts/S
Avg	2686.6	750870.	43834.
Stddev	13.1	2759.	102.
%RSD	.48941	.36742	.23354
#1	2692.7	750350.	43831.
#2	2695.6	753860.	43734.
#3	2671.5	748410.	43938.

Sample Name: SEQ-ICV Acquired: 11/11/2011 11:01:11 Type: QC
Method: DuoEnviroMethodNEW(v2461) Mode: CONC Corr. Factor: 1.000000
User: rburr Custom ID1: Custom ID2: Custom ID3:
Comment: 11K0391

Elem	Ag3280	Al3961	As1890	As1972	B_2496	Ba2335	Be3130
Units	ppb	ppb	ppb	ppb	ppb	ppb	ppb
Avg	**498.84**	**9971.5**	**1039.2**	**1014.9**	F **1068.9**	**991.50**	F **1050.7**
Stddev	5.35	7.5	2.2	3.1	10.6	.08	3.2
%RSD	1.0719	.07517	.21543	.30715	.99166	.00780	.30291
#1	495.54	9978.5	1038.4	1012.3	1066.4	991.41	1052.7
#2	495.97	9972.4	1037.5	1018.4	1059.9	991.55	1047.0
#3	505.01	9963.6	1041.7	1014.0	1080.6	991.55	1052.3
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Fail	Chk Pass	Chk Fail
Value					1000.0		1000.0
Range					±50.000		±50.000

Elem	Ca3179	Cd2144	Cd2288	Co2286	Cr2677	Cu2199	Cu3247
Units	ppm	ppb	ppb	ppb	ppb	ppb	ppb
Avg	F **53.374**	F **1080.3**	F **1061.8**	**982.52**	**971.30**	**1028.**	**995.79**
Stddev	.280	.4	1.1	1.22	8.96	6.	11.56
%RSD	.52441	.04061	.10048	.12463	.92286	.6282	1.1604
#1	53.619	1080.2	1063.0	981.55	966.23	1027.	991.40
#2	53.069	1079.9	1061.4	982.12	966.03	1022.	987.07
#3	53.436	1080.7	1061.0	983.90	981.65	1035.	1008.9
Check ?	Chk Fail	Chk Fail	Chk Fail	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value	50.000	1000.0	1000.0				
Range	±2.5000	±50.000	±50.000				

Elem	Fe2611	K_7664	Mg2790	Mn2576	Mo2020	Na5895	Ni2316
Units	ppb	ppm	ppm	ppb	ppb	ppm	ppb
Avg	F **10519.**	F **9.2910**	**49.890**	**1007.8**	**1043.9**	F **52.730**	**1002.8**
Stddev	22.	.0329	.171	9.2	1.4	.090	.9
%RSD	.20453	.35371	.34277	.91597	.13817	.16998	.08538
#1	10508.	9.3151	50.040	1004.1	1043.2	52.691	1002.9
#2	10506.	9.2536	49.704	1001.0	1042.8	52.667	1001.8
#3	10544.	9.3043	49.924	1018.3	1045.5	52.833	1003.5
Check ?	Chk Fail	Chk Fail	Chk Pass	Chk Pass	Chk Pass	Chk Fail	Chk Pass
Value	10000.	10.000				50.000	
Range	±500.00	±-.50000				±2.5000	

Sample Name: SEQ-ICV Acquired: 11/11/2011 11:01:11 Type: QC
Method: DuoEnviroMethodNEW(v2461) Mode: CONC Corr. Factor: 1.000000
User: rburr Custom ID1: Custom ID2: Custom ID3:
Comment: 11K0391

Elem	Pb2203	Sb2068	Se1960	Sn1899	Sr4215	Ti3349	Tl1908
Units	ppb	ppb	ppb	ppb	ppb	ppb	ppb
Avg	**978.55**	**1010.5**	**1018.3**	**1011.6**	**1008.**	**1015.9**	**980.52**
Stddev	2.72	.7	1.9	.6	4.	5.9	1.51
%RSD	.27837	.07071	.18934	.05956	.3782	.58244	.15362
#1	977.05	1010.4	1020.3	1011.6	1012.	1021.3	982.21
#2	976.90	1011.3	1016.4	1012.3	1004.	1009.6	979.30
#3	981.69	1009.9	1018.2	1011.1	1007.	1016.8	980.07
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value							
Range							

Elem	V_2924	Zn2062
Units	ppb	ppb
Avg	**1023.1**	**1022.9**
Stddev	10.5	.8
%RSD	1.0217	.07439
#1	1017.0	1022.6
#2	1017.1	1022.3
#3	1035.2	1023.7
Check ?	Chk Pass	Chk Pass
Value		
Range		

Int. Std.	Sc1880	Sc3613	Sc3613-2
Units	Cts/S	Cts/S	Cts/S
Avg	2631.4	730820.	42975.
Stddev	3.7	6352.	201.
%RSD	.13934	.86914	.46663
#1	2632.4	734100.	42957.
#2	2634.5	734870.	43184.
#3	2627.4	723500.	42785.

Sample Name: SEQ-ICB Acquired: 11/11/2011 11:08:24 Type: QC
Method: DuoEnviroMethodNEW(v2461) Mode: CONC Corr. Factor: 1.000000
User: rburr Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Ag3280	Al3961	As1890	As1972	B_2496	Ba2335	Be3130	Ca3179
Units	ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppm
Avg	**-.07824**	**-1.6242**	**.28295**	**1.2337**	**.86826**	**.00040**	**-.01313**	**.00142**
Stddev	.12675	3.6206	1.4044	1.2369	.21773	.00280	.03945	.00109
%RSD	162.01	222.91	496.34	100.26	25.077	705.71	300.53	77.014
#1	.03971	2.0030	1.1473	1.2552	.65288	.00153	-.04487	.00040
#2	-.21225	-1.6375	1.0391	-.01379	1.0883	-.00279	.03104	.00129
#3	-.06217	-5.2382	-1.3375	2.4597	.86362	.00245	-.02555	.00257
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit								
Low Limit								

Elem	Cd2144	Cd2288	Co2286	Cr2677	Cu2199	Cu3247	Fe2611	K_7664
Units	ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppm
Avg	**-.01561**	**.14665**	**-.06610**	**-.00632**	**.7235**	**.38628**	**3.1294**	**-.01464**
Stddev	.02140	.08504	.11571	.16501	.5556	.19878	.7503	.02054
%RSD	137.06	57.987	175.04	2611.0	76.80	51.460	23.977	140.27
#1	-.01860	.24431	-.00925	-.15547	.3030	.42987	2.3045	.00741
#2	-.03536	.10669	.01018	-.03443	1.353	.55964	3.3124	-.03323
#3	.00712	.08895	-.19924	.17094	.5141	.16932	3.7713	-.01811
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit								
Low Limit								

Elem	Mg2790	Mn2576	Mo2020	Na5895	Ni2316	Pb2203	Sb2068	Se1960
Units	ppm	ppb	ppb	ppm	ppb	ppb	ppb	ppb
Avg	**.00163**	**.04528**	**.76130**	**.00157**	**-.30996**	**.14314**	**-.15737**	**.21096**
Stddev	.00352	.00310	.02858	.00482	.24138	.19004	.85702	.87948
%RSD	215.80	6.8458	3.7536	306.60	77.876	132.77	544.59	416.89
#1	.00540	.04800	.78219	.00395	-.04834	.29322	.73104	-.53877
#2	-.00156	.04190	.77297	.00474	-.35751	.20674	-.22406	-.00740
#3	.00105	.04593	.72874	-.00397	-.52402	-.07054	-.97910	1.1790
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit								
Low Limit								

Sample Name: SEQ-ICB Acquired: 11/11/2011 11:08:24 Type: QC
Method: DuoEnviroMethodNEW(v2461) Mode: CONC Corr. Factor: 1.000000
User: rburr Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Sn1899	Sr4215	Ti3349	Tl1908	V_2924	Zn2062
Units	ppb	ppb	ppb	ppb	ppb	ppb
Avg	**-.22928**	**-.1693**	**.13871**	**.32192**	**.13479**	**-.00121**
Stddev	.10697	.0357	.18207	.23959	.09283	.06443
%RSD	46.654	21.08	131.26	74.424	68.867	5311.6
#1	-.35170	-.1299	.15138	.08585	.12519	-.03584
#2	-.15381	-.1784	-.04936	.56487	.04714	-.04092
#3	-.18233	-.1995	.31411	.31504	.23204	.07312
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit						
Low Limit						

Int. Std.	Sc1880	Sc3613	Sc3613-2
Units	Cts/S	Cts/S	Cts/S
Avg	2849.7	753130.	42920.
Stddev	3.7	5940.	158.
%RSD	.12847	.78870	.36721
#1	2853.6	759850.	42754.
#2	2846.3	750920.	42938.
#3	2849.1	748600.	43068.

Sample Name: SEQ-CRL Acquired: 11/11/2011 11:13:12 Type: QC
Method: DuoEnviroMethodNEW(v2461) Mode: CONC Corr. Factor: 1.000000
User: rburr Custom ID1: Custom ID2: Custom ID3:
Comment: RLSTDA

Elem	Ag3280	Al3961	As1890	As1972	B_2496	Ba2335	Be3130
Units	ppb	ppb	ppb	ppb	ppb	ppb	ppb
Avg	**1.9471**	**100.18**	**5.9170**	F **7.2231**	**.40763**	**10.057**	**2.1381**
Stddev	.1321	5.88	.7158	1.0553	.13850	.055	.0343
%RSD	6.7849	5.8698	12.098	14.609	33.976	.54428	1.6051
#1	1.9853	101.39	5.1291	7.5621	.45128	10.027	2.1037
#2	1.8001	105.36	6.5273	8.0672	.25257	10.024	2.1384
#3	2.0559	93.786	6.0945	6.0400	.51905	10.120	2.1723
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Fail	None	Chk Pass	Chk Pass
Value				6.0000			
Range				±1.2000			

Elem	Ca3179	Cd2144	Cd2288	Co2286	Cr2677	Cu2199	Cu3247
Units	ppm	ppb	ppb	ppb	ppb	ppb	ppb
Avg	**2.1917**	**2.1234**	**2.3440**	**9.6190**	**4.1987**	**9.534**	**8.2797**
Stddev	.0030	.0331	.0446	.1375	.3174	.290	.1424
%RSD	.13626	1.5588	1.9026	1.4296	7.5600	3.047	1.7204
#1	2.1913	2.1340	2.2934	9.7616	4.1097	9.619	8.3660
#2	2.1948	2.0863	2.3611	9.6081	3.9353	9.773	8.1153
#3	2.1889	2.1499	2.3776	9.4872	4.5511	9.211	8.3579
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value							
Range							

Elem	Fe2611	K_7664	Mg2790	Mn2576	Mo2020	Na5895	Ni2316
Units	ppb	ppm	ppm	ppb	ppb	ppm	ppb
Avg	**68.556**	**3.0337**	**3.1277**	**6.3970**	**10.228**	**3.2015**	**5.6241**
Stddev	2.366	.0080	.0279	.0474	.056	.0077	.0876
%RSD	3.4506	.26435	.89080	.74115	.54780	.24159	1.5576
#1	69.059	3.0299	3.1229	6.3743	10.166	3.1932	5.6423
#2	65.979	3.0283	3.1577	6.3653	10.243	3.2027	5.5288
#3	70.629	3.0429	3.1026	6.4515	10.275	3.2085	5.7012
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value							
Range							

Sample Name: SEQ-CRL Acquired: 11/11/2011 11:13:12 Type: QC
Method: DuoEnviroMethodNEW(v2461) Mode: CONC Corr. Factor: 1.000000
User: rburr Custom ID1: Custom ID2: Custom ID3:
Comment: RLSTDA

Elem	Pb2203	Sb2068	Se1960	Sn1899	Sr4215	Ti3349	Tl1908
Units	ppb	ppb	ppb	ppb	ppb	ppb	ppb
Avg	**3.4054**	**7.4776**	**5.7576**	**19.597**	**5.877**	**10.950**	**3.9810**
Stddev	.5296	.4662	.7920	.161	.055	.114	.5995
%RSD	15.551	6.2344	13.755	.82281	.9329	1.0421	15.060
#1	3.0789	7.9632	5.2104	19.642	5.832	11.077	4.3880
#2	4.0164	7.4359	5.3967	19.418	5.860	10.856	3.2926
#3	3.1210	7.0337	6.6657	19.731	5.938	10.918	4.2625
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value							
Range							

Elem	V_2924	Zn2062
Units	ppb	ppb
Avg	**10.559**	**9.9567**
Stddev	.028	.0223
%RSD	.26422	.22435
#1	10.529	9.9462
#2	10.566	9.9823
#3	10.583	9.9415
Check ?	Chk Pass	Chk Pass
Value		
Range		

Int. Std.	Sc1880	Sc3613	Sc3613-2
Units	Cts/S	Cts/S	Cts/S
Avg	2828.5	738920.	42434.
Stddev	6.9	5176.	150.
%RSD	.24265	.70051	.35402
#1	2829.5	742220.	42525.
#2	2834.8	741570.	42261.
#3	2821.2	732950.	42516.

Sample Name: SEQ-CRL Acquired: 11/11/2011 11:17:56 Type: QC
Method: DuoEnviroMethodNEW(v2461) Mode: CONC Corr. Factor: 1.000000
User: rburr Custom ID1: Custom ID2: Custom ID3:
Comment: RLSTD1

Elem	Ag3280	Al3961	As1890	As1972	B_2496	Ba2335	Be3130	Ca3179
Units	ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppm
Avg	**2.0184**	**218.48**	**5.3070**	**4.3726**	**31.444**	**97.449**	**5.4011**	**.00202**
Stddev	.2243	6.41	.2270	.8659	.429	.245	.0072	.00050
%RSD	11.111	2.9354	4.2766	19.804	1.3635	.25150	.13408	24.854
#1	1.9851	221.89	5.2995	5.2653	31.725	97.166	5.4053	.00229
#2	1.8126	211.08	5.5376	3.5362	31.656	97.602	5.3927	.00232
#3	2.2574	222.47	5.0839	4.3162	30.950	97.578	5.4052	.00144
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	None	Chk Pass	None
Value								
Range								

Elem	Cd2144	Cd2288	Co2286	Cr2677	Cu2199	Cu3247	Fe2611	K_7664
Units	ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppm
Avg	**5.2919**	**5.2603**	**12.215**	**5.3117**	**11.33**	**10.661**	**115.38**	**-.00011**
Stddev	.0434	.0436	.047	.1411	.76	.088	1.89	.02815
%RSD	.82050	.82899	.38769	2.6569	6.734	.82348	1.6349	25940.
#1	5.2626	5.2343	12.270	5.1810	11.98	10.592	116.49	.01849
#2	5.3418	5.3107	12.187	5.2929	10.49	10.759	116.45	.01368
#3	5.2713	5.2360	12.188	5.4613	11.50	10.631	113.20	-.03250
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	None
Value								
Range								

Elem	Mg2790	Mn2576	Mo2020	Na5895	Ni2316	Pb2203	Sb2068	Se1960
Units	ppm	ppb	ppb	ppm	ppb	ppb	ppb	ppb
Avg	**.00311**	**15.937**	**14.789**	**-.00049**	**9.7452**	**3.4474**	**14.082**	**4.5459**
Stddev	.00323	.071	.086	.00923	.0609	.2092	.974	1.1230
%RSD	103.58	.44836	.58300	1874.3	.62522	6.0673	6.9186	24.704
#1	.00083	15.918	14.888	-.00903	9.6894	3.3449	15.178	4.4380
#2	.00171	16.016	14.741	.00930	9.7361	3.3093	13.756	5.7189
#3	.00681	15.877	14.736	-.00175	9.8102	3.6881	13.313	3.4807
Check ?	None	None	Chk Pass	None	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value								
Range								

Sample Name: SEQ-CRL Acquired: 11/11/2011 11:17:56 Type: QC
Method: DuoEnviroMethodNEW(v2461) Mode: CONC Corr. Factor: 1.000000
User: rburr Custom ID1: Custom ID2: Custom ID3:
Comment: RLSTD1

Elem	Sn1899	Sr4215	Ti3349	Tl1908	V_2924	Zn2062
Units	ppb	ppb	ppb	ppb	ppb	ppb
Avg	**30.353**	**-.1165**	**15.428**	**7.9453**	**13.145**	**20.048**
Stddev	.079	.0995	.772	.4336	.501	.079
%RSD	.25903	85.35	5.0029	5.4578	3.8126	.39251
#1	30.271	-.1424	16.318	7.4749	12.595	19.977
#2	30.428	-.2005	14.954	8.0321	13.576	20.035
#3	30.360	-.0067	15.011	8.3291	13.263	20.132
Check ?	None	None	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value						
Range						

Int. Std.	Sc1880	Sc3613	Sc3613-2
Units	Cts/S	Cts/S	Cts/S
Avg	2852.9	744300.	42180.
Stddev	4.1	5139.	133.
%RSD	.14528	.69041	.31443
#1	2857.1	749530.	42269.
#2	2852.6	739260.	42028.
#3	2848.9	744110.	42244.

Sample Name: SEQ-IFA Acquired: 11/11/2011 11:22:42 Type: Unk
Method: DuoEnviroMethodNEW(v2461) Mode: CONC Corr. Factor: 1.000000
User: rburr Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Ag3280	Al3961	As1890	As1972	B_2496	Ba2335	Be3130
Units	ppb	ppb	ppb	ppb	ppb	ppb	ppb
Avg	**-.31369**	**510190.**	**-1.1175**	**-5.7073**	**-.19963**	**1.5629**	**.05290**
Stddev	.21438	3694.	1.9044	3.7393	.55158	.0179	.04936
%RSD	68.340	.72404	170.41	65.517	276.30	1.1458	93.308
#1	-.10467	506200.	-.93092	-10.004	-.61490	1.5482	.06400
#2	-.53305	510890.	-3.1084	-3.9295	.42621	1.5577	.09576
#3	-.30336	513480.	.68666	-3.1886	-.41020	1.5828	-.00107

Elem	Ca3179	Cd2144	Cd2288	Co2286	Cr2677	Cu2199	Cu3247
Units	ppm	ppb	ppb	ppb	ppb	ppb	ppb
Avg	**507.68**	**1.3580**	**1.5716**	**-2.2845**	**-.86391**	**-8.100**	**.02537**
Stddev	3.53	.1406	.0696	.3121	.13440	1.100	.17562
%RSD	.69451	10.350	4.4304	13.662	15.557	13.58	692.34
#1	511.74	1.5155	1.6379	-2.5712	-.83790	-7.950	-.16652
#2	505.93	1.2454	1.5779	-2.3303	-.74442	-9.268	.06450
#3	505.38	1.3129	1.4990	-1.9520	-1.0094	-7.083	.17812

Elem	Fe2611	K_7664	Mg2790	Mn2576	Mo2020	Na5895	Ni2316
Units	ppb	ppm	ppm	ppb	ppb	ppm	ppb
Avg	**208870.**	**-.04040**	**494.58**	**-4.1852**	**1.1931**	**.02582**	**-4.3011**
Stddev	663.	.01911	1.27	.0367	.1107	.00555	.2932
%RSD	.31731	47.318	.25737	.87716	9.2786	21.508	6.8162
#1	208640.	-.06133	493.75	-4.1820	1.2727	.02099	-4.5713
#2	208350.	-.03598	493.95	-4.1502	1.2398	.03189	-3.9894
#3	209610.	-.02387	496.05	-4.2234	1.0667	.02458	-4.3427

Elem	Pb2203	Sb2068	Se1960	Sn1899	Sr4215	Ti3349	Tl1908
Units	ppb	ppb	ppb	ppb	ppb	ppb	ppb
Avg	**1.5549**	**-.91415**	**.49169**	**-2.0155**	**-3.769**	**4.1831**	**-1.8005**
Stddev	1.6359	1.0388	3.4849	.9266	.182	.1738	1.1752
%RSD	105.21	113.64	708.75	45.972	4.830	4.1540	65.271
#1	3.4144	-2.1086	-.60032	-2.1463	-3.747	4.3751	-.70315
#2	.91293	-.41231	4.3918	-2.8697	-3.962	4.0367	-3.0406
#3	.33727	-.22154	-2.3164	-1.0304	-3.600	4.1373	-1.6578

Sample Name: SEQ-IFA Acquired: 11/11/2011 11:22:42 Type: Unk
Method: DuoEnviroMethodNEW(v2461) Mode: CONC Corr. Factor: 1.000000
User: rburr Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	V_2924	Zn2062
Units	ppb	ppb
Avg	**-.76423**	**-8.3616**
Stddev	.20113	.1221
%RSD	26.318	1.4599
#1	-.79718	-8.4859
#2	-.94685	-8.2419
#3	-.54866	-8.3571

Int. Std.	Sc1880	Sc3613	Sc3613-2
Units	Cts/S	Cts/S	Cts/S
Avg	2199.0	660410.	41264.
Stddev	1.6	5695.	70.
%RSD	.07268	.86241	.17042
#1	2200.7	666350.	41313.
#2	2198.9	659880.	41295.
#3	2197.5	655000.	41184.

Sample Name: SEQ-IFB Acquired: 11/11/2011 11:30:06 Type: QC
Method: DuoEnviroMethodNEW(v2461) Mode: CONC Corr. Factor: 1.000000
User: rburr Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Ag3280	Al3961	As1890	As1972	B_2496	Ba2335	Be3130
Units	ppb	ppb	ppb	ppb	ppb	ppb	ppb
Avg	**207.65**	**504360.**	**110.42**	**103.76**	**21.234**	**513.78**	**510.57**
Stddev	.59	2983.	1.73	.93	.511	1.32	2.22
%RSD	.28386	.59144	1.5642	.89872	2.4050	.25643	.43534
#1	208.32	503840.	108.45	103.07	20.701	512.56	509.35
#2	207.34	501680.	111.64	104.82	21.284	515.18	509.21
#3	207.27	507570.	111.19	103.40	21.718	513.61	513.13
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	None	Chk Pass	Chk Pass
Value							
Range							

Elem	Ca3179	Cd2144	Cd2288	Co2286	Cr2677	Cu2199	Cu3247
Units	ppm	ppb	ppb	ppb	ppb	ppb	ppb
Avg	**496.27**	**1054.6**	**1134.5**	**474.74**	**473.02**	**491.9**	**509.25**
Stddev	6.26	1.1	1.4	2.21	1.84	1.1	3.16
%RSD	1.2623	.10165	.12355	.46462	.38829	.2157	.62048
#1	491.00	1053.3	1132.9	473.05	474.69	492.2	512.79
#2	494.62	1055.2	1135.3	477.24	473.32	490.8	506.70
#3	503.20	1055.2	1135.4	473.94	471.05	492.8	508.26
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value							
Range							

Elem	Fe2611	K_7664	Mg2790	Mn2576	Mo2020	Na5895	Ni2316
Units	ppb	ppm	ppm	ppb	ppb	ppm	ppb
Avg	**206740.**	**.00942**	**486.34**	**473.76**	**1.2316**	**.04805**	**974.45**
Stddev	655.	.00789	1.73	2.87	.1555	.00947	1.74
%RSD	.31660	83.711	.35500	.60513	12.626	19.708	.17889
#1	206320.	.00917	485.33	476.64	1.2678	.05648	972.68
#2	206410.	.00166	485.36	473.74	1.0611	.04986	976.17
#3	207500.	.01743	488.33	470.91	1.3657	.03781	974.49
Check ?	Chk Pass	None	Chk Pass	Chk Pass	None	None	Chk Pass
Value							
Range							

Sample Name: SEQ-IFB Acquired: 11/11/2011 11:30:06 Type: QC
Method: DuoEnviroMethodNEW(v2461) Mode: CONC Corr. Factor: 1.000000
User: rburr Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Pb2203	Sb2068	Se1960	Sn1899	Sr4215	Ti3349	Tl1908
Units	ppb	ppb	ppb	ppb	ppb	ppb	ppb
Avg	**47.620**	**634.40**	**51.504**	**-2.0060**	**-3.639**	**3.9171**	**93.171**
Stddev	1.757	4.38	.703	.6775	.123	.6575	.936
%RSD	3.6888	.69090	1.3652	33.774	3.390	16.787	1.0048
#1	46.343	630.47	50.695	-2.5873	-3.498	4.1178	94.198
#2	49.623	639.13	51.959	-1.2619	-3.723	4.4508	92.366
#3	46.893	633.59	51.860	-2.1689	-3.697	3.1826	92.948
Check ?	Chk Pass	Chk Pass	Chk Pass	None	None	None	Chk Pass
Value							
Range							

Elem	V_2924	Zn2062
Units	ppb	ppb
Avg	**489.55**	**991.93**
Stddev	2.28	3.35
%RSD	.46662	.33777
#1	492.18	990.62
#2	488.40	995.74
#3	488.07	989.44
Check ?	Chk Pass	Chk Pass
Value		
Range		

Int. Std.	Sc1880	Sc3613	Sc3613-2
Units	Cts/S	Cts/S	Cts/S
Avg	2218.2	663290.	42445.
Stddev	3.8	2314.	218.
%RSD	.17344	.34888	.51350
#1	2220.0	661440.	42598.
#2	2213.8	662550.	42540.
#3	2220.8	665890.	42195.

Sample Name: SEQ-CCV Acquired: 11/11/2011 11:43:03 Type: QC
Method: DuoEnviroMethodNEW(v2461) Mode: CONC Corr. Factor: 1.000000
User: rburr Custom ID1: Custom ID2: Custom ID3:
Comment: 11K0392

Elem	Ag3280	Al3961	As1890	As1972	B_2496	Ba2335	Be3130	Ca3179
Units	ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppm
Avg	**495.22**	**9954.6**	**1031.0**	**988.75**	**1060.0**	**959.18**	**1088.0**	**54.292**
Stddev	1.26	13.8	5.3	9.36	8.0	5.62	1.6	.080
%RSD	.25540	.13891	.51160	.94698	.75326	.58623	.15069	.14744
#1	496.60	9953.8	1029.1	986.23	1064.7	957.14	1088.0	54.241
#2	494.94	9968.8	1026.9	980.91	1064.5	954.87	1089.7	54.385
#3	494.11	9941.2	1036.9	999.12	1050.8	965.54	1086.4	54.252
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value								
Range								

Elem	Cd2144	Cd2288	Co2286	Cr2677	Cu2199	Cu3247	Fe2611	K_7664
Units	ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppm
Avg	**1049.2**	**1035.6**	**950.36**	**996.38**	**1035.**	**979.44**	**10732.**	**10.050**
Stddev	4.0	5.6	5.96	3.74	5.	2.89	6.	.024
%RSD	.38559	.53726	.62725	.37557	.4718	.29475	.05559	.23425
#1	1047.3	1033.1	948.34	998.71	1041.	979.74	10735.	10.076
#2	1046.5	1031.7	945.68	998.36	1034.	982.17	10725.	10.030
#3	1053.9	1042.0	957.07	992.06	1031.	976.42	10736.	10.043
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value								
Range								

Elem	Mg2790	Mn2576	Mo2020	Na5895	Ni2316	Pb2203	Sb2068	Se1960
Units	ppm	ppb	ppb	ppm	ppb	ppb	ppb	ppb
Avg	**50.425**	**1013.5**	**1008.2**	**53.813**	**995.12**	**958.70**	**979.42**	**1022.4**
Stddev	.033	6.5	7.0	.006	4.81	4.28	5.82	5.3
%RSD	.06522	.63667	.69504	.01208	.48361	.44612	.59457	.51640
#1	50.388	1017.2	1004.7	53.819	993.66	955.86	976.57	1021.7
#2	50.435	1017.3	1003.6	53.814	991.21	956.61	975.56	1017.5
#3	50.451	1006.1	1016.3	53.806	1000.5	963.62	986.12	1028.0
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value								
Range								

Sample Name: SEQ-CCV Acquired: 11/11/2011 11:43:03 Type: QC
Method: DuoEnviroMethodNEW(v2461) Mode: CONC Corr. Factor: 1.000000
User: rburr Custom ID1: Custom ID2: Custom ID3:
Comment: 11K0392

Elem	Sn1899	Sr4215	Ti3349	Tl1908	V_2924	Zn2062
Units	ppb	ppb	ppb	ppb	ppb	ppb
Avg	**993.69**	**1004.**	**1003.0**	**1002.5**	**1027.1**	**997.15**
Stddev	5.87	1.	.9	3.7	5.3	4.48
%RSD	.59118	.0616	.09207	.37247	.51587	.44916
#1	990.88	1004.	1002.0	1001.0	1031.0	994.97
#2	989.75	1005.	1003.8	999.73	1029.2	994.18
#3	1000.4	1004.	1003.2	1006.7	1021.1	1002.3
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value						
Range						

Int. Std.	Sc1880	Sc3613	Sc3613-2
Units	Cts/S	Cts/S	Cts/S
Avg	2677.2	727410.	43037.
Stddev	9.0	4042.	104.
%RSD	.33789	.55565	.24224
#1	2683.5	723520.	43064.
#2	2681.3	727100.	43125.
#3	2666.8	731590.	42922.

Sample Name: SEQ-CCB Acquired: 11/11/2011 11:50:19 Type: QC
Method: DuoEnviroMethodNEW(v2461) Mode: CONC Corr. Factor: 1.000000
User: rburr Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Ag3280	Al3961	As1890	As1972	B_2496	Ba2335	Be3130	Ca3179
Units	ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppm
Avg	**-.07833**	**3.8762**	**1.6245**	**.97899**	**.24786**	**.16279**	**.03588**	**.00484**
Stddev	.09700	6.8032	.3271	2.0781	.27452	.02732	.05590	.00077
%RSD	123.83	175.51	20.133	212.27	110.76	16.785	155.81	15.973
#1	-.03765	-.79815	1.2742	-1.3747	.38504	.14020	-.02863	.00508
#2	-.00830	.74570	1.9218	2.5602	-.06821	.19316	.06607	.00547
#3	-.18905	11.681	1.6774	1.7514	.42677	.15500	.07019	.00398
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit								
Low Limit								

Elem	Cd2144	Cd2288	Co2286	Cr2677	Cu2199	Cu3247	Fe2611	K_7664
Units	ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppm
Avg	**.17206**	**.40345**	**.07561**	**.09549**	**.3645**	**.97517**	**2.7209**	**.01047**
Stddev	.08861	.07272	.05484	.09753	.5231	.18567	.3682	.01278
%RSD	51.497	18.025	72.531	102.13	143.5	19.039	13.531	122.11
#1	.07687	.34215	.06088	.03534	.7841	1.0452	2.2962	.01233
#2	.18719	.38438	.02964	.04312	-.2216	.76467	2.9169	.02221
#3	.25214	.48380	.13632	.20802	.5310	1.1156	2.9497	-.00314
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit								
Low Limit								

Elem	Mg2790	Mn2576	Mo2020	Na5895	Ni2316	Pb2203	Sb2068	Se1960
Units	ppm	ppb	ppb	ppm	ppb	ppb	ppb	ppb
Avg	**.00391**	**.10016**	**.77258**	**.01072**	**-.38204**	**.41013**	**.04356**	**-.01548**
Stddev	.00870	.01611	.02137	.00555	.15329	.14995	.63765	.77691
%RSD	222.46	16.084	2.7665	51.729	40.124	36.562	1463.9	5018.6
#1	.00160	.08212	.79713	.00432	-.26509	.58081	.71158	-.72577
#2	-.00340	.10524	.75814	.01392	-.32545	.29959	-.55861	-.13489
#3	.01353	.11312	.76246	.01393	-.55558	.34997	-.02229	.81422
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit								
Low Limit								

Sample Name: SEQ-CCB Acquired: 11/11/2011 11:50:19 Type: QC
Method: DuoEnviroMethodNEW(v2461) Mode: CONC Corr. Factor: 1.000000
User: rburr Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Sn1899	Sr4215	Ti3349	Tl1908	V_2924	Zn2062
Units	ppb	ppb	ppb	ppb	ppb	ppb
Avg	**.22860**	**-.1099**	**-.10052**	**.32947**	**.17901**	**.12625**
Stddev	.11825	.0077	.21621	.53633	.05410	.05027
%RSD	51.728	6.985	215.09	162.79	30.223	39.815
#1	.19715	-.1117	-.16511	.62017	.22657	.16828
#2	.35939	-.1015	.14063	.65769	.19033	.13991
#3	.12925	-.1165	-.27708	-.28946	.12015	.07057
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit						
Low Limit						

Int. Std.	Sc1880	Sc3613	Sc3613-2
Units	Cts/S	Cts/S	Cts/S
Avg	2898.0	760260.	43590.
Stddev	9.3	2108.	118.
%RSD	.32015	.27726	.27169
#1	2894.2	758090.	43650.
#2	2908.5	762300.	43666.
#3	2891.1	760380.	43453.

Sample Name: SEQ-CCV Acquired: 11/11/2011 19:15:35 Type: QC
Method: DuoEnviroMethodNEW(v2461) Mode: CONC Corr. Factor: 1.000000
User: rburr Custom ID1: Custom ID2: Custom ID3:
Comment: 11K0392

Elem	Ag3280	Al3961	As1890	As1972	B_2496	Ba2335	Be3130
Units	ppb	ppb	ppb	ppb	ppb	ppb	ppb
Avg	**479.96**	**9751.8**	**1045.1**	F **1122.2**	**1015.6**	**1022.5**	**969.55**
Stddev	1.41	14.6	3.7	3.6	5.2	4.5	4.89
%RSD	.29443	.15012	.35520	.31799	.50957	.43955	.50421
#1	479.92	9754.2	1045.5	1121.2	1014.2	1022.5	964.66
#2	478.57	9765.1	1041.2	1119.2	1011.2	1018.0	969.56
#3	481.39	9736.2	1048.6	1126.2	1021.3	1027.0	974.43
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Fail	Chk Pass	Chk Pass	Chk Pass
Value				1000.0			
Range				±100.00			

Elem	Ca3179	Cd2144	Cd2288	Co2286	Cr2677	Cu2199	Cu3247
Units	ppm	ppb	ppb	ppb	ppb	ppb	ppb
Avg	**49.953**	**1058.9**	**1068.4**	**1083.1**	**1021.9**	**996.7**	**1086.4**
Stddev	.279	4.0	4.0	3.7	3.2	3.0	2.0
%RSD	.55753	.37544	.37830	.34406	.31359	.3034	.18761
#1	49.654	1059.2	1068.0	1083.7	1023.3	994.7	1088.0
#2	50.001	1054.8	1064.5	1079.2	1018.2	995.3	1084.1
#3	50.205	1062.7	1072.6	1086.6	1024.2	1000.	1087.2
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value							
Range							

Elem	Fe2611	K_7664	Mg2790	Mn2576	Mo2020	Na5895	Ni2316
Units	ppb	ppm	ppm	ppb	ppb	ppm	ppb
Avg	**9616.3**	**9.7095**	F **38.460**	**1012.3**	**1046.4**	**47.559**	**1015.5**
Stddev	43.2	.0128	.178	4.5	4.6	.178	4.4
%RSD	.44916	.13154	.46232	.44539	.44326	.37461	.42986
#1	9570.4	9.7076	38.273	1011.8	1045.7	47.379	1015.4
#2	9622.6	9.7230	38.481	1008.1	1042.1	47.561	1011.2
#3	9656.1	9.6977	38.627	1017.1	1051.3	47.736	1019.9
Check ?	Chk Pass	Chk Pass	Chk Fail	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value			50.000				
Range			±-5.0000				

Sample Name: SEQ-CCV Acquired: 11/11/2011 19:15:35 Type: QC
Method: DuoEnviroMethodNEW(v2461) Mode: CONC Corr. Factor: 1.000000
User: rburr Custom ID1: Custom ID2: Custom ID3:
Comment: 11K0392

Elem	Pb2203	Sb2068	Se1960	Sn1899	Sr4215	Ti3349	Tl1908
Units	ppb	ppb	ppb	ppb	ppb	ppb	ppb
Avg	**1042.3**	F **1137.4**	**1082.3**	**1046.9**	**1042.**	**1042.8**	**999.90**
Stddev	4.4	3.4	5.0	5.3	3.	5.0	4.40
%RSD	.42296	.29827	.46616	.50721	.2458	.47964	.43983
#1	1044.8	1136.8	1080.6	1047.8	1040.	1037.1	998.58
#2	1037.2	1134.4	1078.3	1041.3	1045.	1045.8	996.32
#3	1044.8	1141.1	1087.9	1051.8	1042.	1045.7	1004.8
Check ?	Chk Pass	Chk Fail	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value		1000.0					
Range		±100.00					

Elem	V_2924	Zn2062
Units	ppb	ppb
Avg	**1019.5**	**1047.9**
Stddev	4.1	3.9
%RSD	.40536	.37064
#1	1020.8	1048.9
#2	1014.9	1043.6
#3	1022.9	1051.2
Check ?	Chk Pass	Chk Pass
Value		
Range		

Int. Std.	Sc1880	Sc3613	Sc3613-2
Units	Cts/S	Cts/S	Cts/S
Avg	2581.2	754190.	46266.
Stddev	9.6	3002.	80.
%RSD	.37051	.39802	.17395
#1	2580.7	754660.	46351.
#2	2591.0	756930.	46255.
#3	2571.9	750980.	46191.

Sample Name: SEQ-CCB Acquired: 11/11/2011 19:22:51 Type: QC
Method: DuoEnviroMethodNEW(v2461) Mode: CONC Corr. Factor: 1.000000
User: rburr Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Ag3280	Al3961	As1890	As1972	B_2496	Ba2335	Be3130	Ca3179
Units	ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppm
Avg	**-.26680**	**5.1660**	**.94373**	**.22126**	**.10327**	**.19140**	**.06610**	**.00867**
Stddev	.08116	6.0821	.86837	.64745	.32573	.11349	.01657	.00140
%RSD	30.420	117.73	92.015	292.62	315.43	59.294	25.072	16.141
#1	-.23371	2.1810	1.5007	.73381	.47855	.06681	.04903	.01019
#2	-.35927	1.1531	1.3874	-.50635	-.10604	.28887	.08213	.00837
#3	-.20741	12.164	-.05684	.43632	-.06271	.21853	.06714	.00744
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit								
Low Limit								

Elem	Cd2144	Cd2288	Co2286	Cr2677	Cu2199	Cu3247	Fe2611	K_7664
Units	ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppm
Avg	**.16943**	**-.02500**	**.12958**	**.18419**	**.6575**	**-.50313**	**2.6466**	**.00855**
Stddev	.04829	.08873	.08947	.03251	.6754	.13604	.4021	.01252
%RSD	28.502	354.92	69.047	17.651	102.7	27.039	15.194	146.32
#1	.11568	-.12577	.04849	.17557	.0350	-.62948	2.2429	.01209
#2	.20916	.00933	.11468	.15686	.5618	-.52077	3.0472	.01892
#3	.18345	.04143	.22556	.22014	1.376	-.35913	2.6498	-.00535
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit								
Low Limit								

Elem	Mg2790	Mn2576	Mo2020	Na5895	Ni2316	Pb2203	Sb2068	Se1960
Units	ppm	ppb	ppb	ppm	ppb	ppb	ppb	ppb
Avg	**-.00133**	**.43043**	**.80239**	**.03372**	**.40058**	**.48351**	**.13840**	**.75838**
Stddev	.00985	.02742	.05105	.00457	.10605	.52760	1.8387	.14656
%RSD	738.12	6.3714	6.3619	13.549	26.474	109.12	1328.6	19.325
#1	.00912	.46121	.81364	.02879	.52008	.35787	-.27112	.86066
#2	-.00266	.40861	.74666	.03455	.31768	.03007	-1.4610	.82400
#3	-.01046	.42146	.84687	.03782	.36398	1.0626	2.1474	.59048
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit								
Low Limit								

Sample Name: SEQ-CCB Acquired: 11/11/2011 19:22:51 Type: QC
Method: DuoEnviroMethodNEW(v2461) Mode: CONC Corr. Factor: 1.000000
User: rburr Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Sn1899	Sr4215	Ti3349	Tl1908	V_2924	Zn2062
Units	ppb	ppb	ppb	ppb	ppb	ppb
Avg	**.16976**	**.1356**	**.11215**	**.41247**	**.09758**	**.15815**
Stddev	.23363	.0693	.29993	.82349	.05231	.13077
%RSD	137.63	51.13	267.44	199.65	53.608	82.686
#1	.31030	.1647	.18399	-.04600	.15740	.01431
#2	.29891	.1857	-.21718	1.3632	.06039	.19028
#3	-.09994	.0565	.36964	-.07973	.07495	.26985
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit						
Low Limit						

Int. Std.	Sc1880	Sc3613	Sc3613-2
Units	Cts/S	Cts/S	Cts/S
Avg	2843.0	802980.	47263.
Stddev	14.6	5678.	170.
%RSD	.51260	.70710	.35888
#1	2852.3	804030.	47313.
#2	2850.6	796850.	47402.
#3	2826.3	808050.	47074.

Sample Name: 1K08018-BLK1 Acquired: 11/11/2011 19:27:28 Type: QC
Method: DuoEnviroMethodNEW(v2461) Mode: CONC Corr. Factor: 1.000000
User: rburr Custom ID1: Custom ID2: Custom ID3:
Comment: PBW110811B /4X

Elem	Ag3280	Al3961	As1890	As1972	B_2496	Ba2335	Be3130	Ca3179
Units	ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppm
Avg	**-.10840**	**3.4933**	**1.0187**	**.08157**	**.20899**	**.01190**	**.11391**	**.03749**
Stddev	.15747	1.1870	.5278	.80961	.12961	.05684	.03710	.00193
%RSD	145.28	33.981	51.810	992.49	62.014	477.65	32.567	5.1403
#1	-.03714	3.2518	1.3971	.98178	.33797	.07115	.13173	.03959
#2	-.28890	4.7825	1.2432	-.15016	.07876	-.04218	.13874	.03707
#3	.00086	2.4455	.41577	-.58690	.21025	.00673	.07127	.03580
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit								
Low Limit								

Elem	Cd2144	Cd2288	Co2286	Cr2677	Cu2199	Cu3247	Fe2611	K_7664
Units	ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppm
Avg	**.07103**	**-.00762**	**-.06592**	**1.2341**	**.4230**	**-.09638**	**8.4371**	**.03632**
Stddev	.01264	.02201	.07341	.0718	.3152	.09893	3.0061	.01642
%RSD	17.792	288.85	111.36	5.8216	74.50	102.64	35.630	45.207
#1	.06549	.00585	-.14553	1.3168	.6184	-.19728	11.886	.02251
#2	.06211	-.03302	-.00090	1.1878	.5913	.00044	7.0539	.05447
#3	.08549	.00431	-.05133	1.1976	.0594	-.09230	6.3715	.03198
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit								
Low Limit								

Elem	Mg2790	Mn2576	Mo2020	Na5895	Ni2316	Pb2203	Sb2068	Se1960
Units	ppm	ppb	ppb	ppm	ppb	ppb	ppb	ppb
Avg	**.01136**	**.92221**	**.30312**	**.05239**	**.96390**	**.07398**	**-.85882**	**-.31139**
Stddev	.00550	.09624	.07728	.00865	.06726	.34490	1.0529	1.0384
%RSD	48.423	10.436	25.495	16.517	6.9775	466.24	122.60	333.49
#1	.01057	1.0120	.21441	.06043	1.0044	.43824	.14390	.01681
#2	.00629	.93408	.35591	.05350	1.0010	.03127	-1.9556	.52330
#3	.01720	.82058	.33902	.04323	.88626	-.24758	-.76480	-1.4743
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit								
Low Limit								

Sample Name: 1K08018-BLK1 Acquired: 11/11/2011 19:27:28 Type: QC
Method: DuoEnviroMethodNEW(v2461) Mode: CONC Corr. Factor: 1.000000
User: rburr Custom ID1: Custom ID2: Custom ID3:
Comment: PBW110811B /4X

Elem	Sn1899	Sr4215	Ti3349	Tl1908	V_2924	Zn2062
Units	ppb	ppb	ppb	ppb	ppb	ppb
Avg	**.39231**	**.2344**	**-.18911**	**.08324**	**.07474**	**1.0817**
Stddev	.28432	.0689	.16878	.67014	.16053	.0507
%RSD	72.472	29.40	89.251	805.05	214.80	4.6910
#1	.45609	.1624	.00133	.23425	.03181	1.0879
#2	.63932	.2412	-.24846	.66500	.25237	1.0282
#3	.08152	.2997	-.32019	-.64952	-.05997	1.1291
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit						
Low Limit						

Int. Std.	Sc1880	Sc3613	Sc3613-2
Units	Cts/S	Cts/S	Cts/S
Avg	2909.4	807600.	47734.
Stddev	6.7	6476.	323.
%RSD	.23022	.80187	.67754
#1	2915.2	807990.	47909.
#2	2910.8	800940.	47933.
#3	2902.1	813870.	47361.

Sample Name: 1K08018-BS1 Acquired: 11/11/2011 19:32:05 Type: QC
Method: DuoEnviroMethodNEW(v2461) Mode: CONC Corr. Factor: 1.000000
User: rburr Custom ID1: Custom ID2: Custom ID3:
Comment: LCSW110811B /4X

Elem	Ag3280	Al3961	As1890	As1972	B_2496	Ba2335	Be3130
Units	ppb	ppb	ppb	ppb	ppb	ppb	ppb
Avg	**19.404**	**173.78**	**19.476**	**20.704**	**72.920**	**159.99**	**4.1467**
Stddev	.249	3.84	.743	1.659	.323	.64	.0160
%RSD	1.2819	2.2091	3.8138	8.0136	.44339	.40302	.38704
#1	19.617	172.47	20.247	18.863	73.252	159.62	4.1348
#2	19.464	178.11	18.765	21.164	72.901	159.62	4.1649
#3	19.131	170.78	19.417	22.085	72.606	160.74	4.1403
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value							
Range							

Elem	Ca3179	Cd2144	Cd2288	Co2286	Cr2677	Cu2199	Cu3247
Units	ppm	ppb	ppb	ppb	ppb	ppb	ppb
Avg	**2.4090**	**10.602**	**10.613**	**41.830**	**16.369**	**19.79**	**21.214**
Stddev	.0137	.019	.111	.120	.120	.16	.370
%RSD	.56748	.17686	1.0437	.28634	.73166	.7905	1.7424
#1	2.4064	10.586	10.486	41.718	16.262	19.91	20.924
#2	2.4238	10.622	10.682	41.815	16.346	19.61	21.087
#3	2.3969	10.597	10.673	41.956	16.498	19.83	21.630
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value							
Range							

Elem	Fe2611	K_7664	Mg2790	Mn2576	Mo2020	Na5895	Ni2316
Units	ppb	ppm	ppm	ppb	ppb	ppm	ppb
Avg	**79.622**	**2.3715**	F **1.9039**	**41.067**	**75.303**	**2.3489**	**40.207**
Stddev	2.035	.0102	.0077	.111	.343	.0062	.176
%RSD	2.5552	.43004	.40575	.27023	.45569	.26456	.43710
#1	79.391	2.3600	1.9010	41.158	75.009	2.3459	40.211
#2	77.713	2.3795	1.9127	41.099	75.219	2.3560	40.030
#3	81.762	2.3749	1.8980	40.943	75.680	2.3447	40.381
Check ?	Chk Pass	Chk Pass	Chk Fail	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value			2.4000				
Range			±-.36000				

Sample Name: 1K08018-BS1 Acquired: 11/11/2011 19:32:05 Type: QC
Method: DuoEnviroMethodNEW(v2461) Mode: CONC Corr. Factor: 1.000000
User: rburr Custom ID1: Custom ID2: Custom ID3:
Comment: LCSW110811B /4X

Elem	Pb2203	Sb2068	Se1960	Sn1899	Sr4215	Ti3349	Tl1908
Units	ppb	ppb	ppb	ppb	ppb	ppb	ppb
Avg	**21.038**	**20.397**	**19.210**	**79.726**	**83.31**	**80.669**	**19.802**
Stddev	.506	.157	.361	.258	.19	.271	.528
%RSD	2.4042	.77161	1.8776	.32303	.2264	.33653	2.6653
#1	21.441	20.255	19.167	79.569	83.40	80.829	19.648
#2	20.470	20.370	19.591	79.586	83.43	80.355	19.368
#3	21.202	20.566	18.873	80.024	83.09	80.822	20.390
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value							
Range							

Elem	V_2924	Zn2062
Units	ppb	ppb
Avg	**37.591**	**41.248**
Stddev	.285	.256
%RSD	.75945	.62175
#1	37.283	41.175
#2	37.846	41.035
#3	37.645	41.533
Check ?	Chk Pass	Chk Pass
Value		
Range		

Int. Std.	Sc1880	Sc3613	Sc3613-2
Units	Cts/S	Cts/S	Cts/S
Avg	2879.2	812120.	47877.
Stddev	14.6	2783.	124.
%RSD	.50567	.34266	.25885
#1	2887.8	815260.	48019.
#2	2887.5	811120.	47814.
#3	2862.4	809970.	47796.

Sample Name: 1110003-17@2X Acquired: 11/11/2011 19:47:43 Type: Unk
Method: DuoEnviroMethodNEW(v2461) Mode: CONC Corr. Factor: 1.000000
User: rburr Custom ID1: Custom ID2: Custom ID3:
Comment: TETRA /4X

Elem	Ag3280	Al3961	As1890	As1972	B_2496	Ba2335	Be3130	Ca3179
Units	ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppm
Avg	**-.15035**	**589.23**	**9.8590**	**10.331**	**372.87**	**17.655**	**.05689**	**81.595**
Stddev	.17393	7.42	.8615	2.293	2.53	.150	.02193	.842
%RSD	115.68	1.2587	8.7377	22.192	.67843	.85173	38.548	1.0322
#1	-.32117	590.15	10.011	12.443	374.57	17.616	.08023	82.489
#2	-.15642	581.40	10.634	10.659	369.96	17.528	.05374	80.817
#3	.02653	596.14	8.9316	7.8925	374.08	17.821	.03670	81.477

Elem	Cd2144	Cd2288	Co2286	Cr2677	Cu2199	Cu3247	Fe2611	K_7664
Units	ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppm
Avg	**.02043**	**.25911**	**.51826**	**1.1956**	**.3187**	**.38145**	**3843.8**	**25.867**
Stddev	.04619	.14767	.05523	.0947	.9578	.06791	9.9	.038
%RSD	226.14	56.992	10.658	7.9199	300.6	17.802	.25725	.14540
#1	.00568	.26389	.45853	1.3041	-.5940	.45785	3832.6	25.825
#2	-.01659	.10910	.56750	1.1535	.2340	.32798	3847.4	25.899
#3	.07219	.40433	.52875	1.1293	1.316	.35852	3851.4	25.877

Elem	Mg2790	Mn2576	Mo2020	Na5895	Ni2316	Pb2203	Sb2068	Se1960
Units	ppm	ppb	ppb	ppm	ppb	ppb	ppb	ppb
Avg	**44.178**	**92.666**	**10.525**	**28.726**	**.99795**	**-.15557**	**.25865**	**-.13706**
Stddev	.036	.490	.098	.082	.13374	.19323	.75336	.56416
%RSD	.08040	.52838	.93122	.28480	13.401	124.21	291.27	411.62
#1	44.215	92.733	10.415	28.631	1.1135	-.33462	.62395	.43121
#2	44.145	92.147	10.556	28.768	1.0290	-.18135	-.60772	-.69702
#3	44.175	93.119	10.603	28.777	.85143	.04925	.75971	-.14536

Elem	Sn1899	Sr4215	Ti3349	Tl1908	V_2924	Zn2062
Units	ppb	ppb	ppb	ppb	ppb	ppb
Avg	**.06861**	**407.7**	**5.8793**	**.36045**	**11.598**	**3.1633**
Stddev	.08967	1.0	.3540	.59048	.131	.1086
%RSD	130.71	.2339	6.0207	163.82	1.1293	3.4334
#1	.05652	408.7	5.8023	.98270	11.555	3.1185
#2	-.01441	406.9	6.2655	.29071	11.744	3.0842
#3	.16371	407.5	5.5702	-.19206	11.493	3.2871

Sample Name: 1110003-17@2X Acquired: 11/11/2011 19:47:43 Type: Unk
Method: DuoEnviroMethodNEW(v2461) Mode: CONC Corr. Factor: 1.000000
User: rburr Custom ID1: Custom ID2: Custom ID3:
Comment: TETRA /4X

Int. Std.	Sc1880	Sc3613	Sc3613-2
Units	Cts/S	Cts/S	Cts/S
Avg	2564.7	775420.	47771.
Stddev	9.4	4635.	171.
%RSD	.36725	.59772	.35748
#1	2572.1	775350.	47875.
#2	2567.9	780100.	47865.
#3	2554.1	770830.	47574.

Sample Name: 1110003-18@2X Acquired: 11/11/2011 19:52:21 Type: Unk
Method: DuoEnviroMethodNEW(v2461) Mode: CONC Corr. Factor: 1.000000
User: rburr Custom ID1: Custom ID2: Custom ID3:
Comment: SOL. TETRA /4X

Elem	Ag3280	Al3961	As1890	As1972	B_2496	Ba2335	Be3130	Ca3179
Units	ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppm
Avg	**-.50514**	**85.247**	**8.7034**	**7.7020**	**390.82**	**16.639**	**-.00189**	**86.342**
Stddev	.11754	12.327	.6150	2.9687	.63	.088	.02303	.038
%RSD	23.270	14.460	7.0667	38.544	.16095	.52740	1219.1	.04426
#1	-.63444	99.454	8.6595	8.3104	391.35	16.660	.02017	86.345
#2	-.47621	77.390	8.1115	4.4763	390.13	16.543	-.00006	86.303
#3	-.40476	78.897	9.3392	10.319	391.00	16.715	-.02578	86.379

Elem	Cd2144	Cd2288	Co2286	Cr2677	Cu2199	Cu3247	Fe2611	K_7664
Units	ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppm
Avg	**.00212**	**.32308**	**.13610**	**.71966**	**-.3278**	**-.22749**	**3455.0**	**26.406**
Stddev	.02943	.02971	.06660	.09439	.7798	.07448	1.0	.017
%RSD	1389.8	9.1964	48.932	13.116	237.9	32.740	.02884	.06481
#1	-.02407	.32857	.06004	.61444	-.4289	-.15212	3454.0	26.415
#2	-.00355	.29100	.18393	.79686	-1.052	-.30104	3456.0	26.417
#3	.03397	.34966	.16434	.74769	.4976	-.22932	3454.8	26.386

Elem	Mg2790	Mn2576	Mo2020	Na5895	Ni2316	Pb2203	Sb2068	Se1960
Units	ppm	ppb	ppb	ppm	ppb	ppb	ppb	ppb
Avg	**45.278**	**97.796**	**10.275**	**29.108**	**.98324**	**-.55022**	**-.74174**	**.40624**
Stddev	.037	.209	.142	.067	.09391	.53664	.25495	.93890
%RSD	.08072	.21404	1.3782	.23167	9.5510	97.531	34.372	231.12
#1	45.240	97.996	10.119	29.051	1.0910	-.84831	-.90979	.53042
#2	45.313	97.579	10.309	29.183	.91884	-.87165	-.44838	1.2769
#3	45.281	97.812	10.396	29.091	.93988	.06929	-.86705	-.58858

Elem	Sn1899	Sr4215	Ti3349	Tl1908	V_2924	Zn2062
Units	ppb	ppb	ppb	ppb	ppb	ppb
Avg	**.13884**	**428.5**	**2.5999**	**.17406**	**10.155**	**1.6135**
Stddev	.34310	.7	.1062	.60370	.163	.0229
%RSD	247.12	.1604	4.0837	346.84	1.6008	1.4214
#1	.31675	429.0	2.6823	.58410	10.279	1.6056
#2	.35646	427.7	2.6372	-.51918	9.9709	1.5955
#3	-.25667	428.8	2.4801	.45725	10.214	1.6393

Sample Name: 1110003-18@2X Acquired: 11/11/2011 19:52:21 Type: Unk
Method: DuoEnviroMethodNEW(v2461) Mode: CONC Corr. Factor: 1.000000
User: rburr Custom ID1: Custom ID2: Custom ID3:
Comment: SOL. TETRA /4X

Int. Std.	Sc1880	Sc3613	Sc3613-2
Units	Cts/S	Cts/S	Cts/S
Avg	2556.2	764280.	46919.
Stddev	14.1	2277.	145.
%RSD	.55054	.29788	.30844
#1	2556.9	762950.	46882.
#2	2569.8	766910.	46796.
#3	2541.7	762980.	47078.

Sample Name: 1110003-19@2X Acquired: 11/11/2011 19:56:53 Type: Unk
Method: DuoEnviroMethodNEW(v2461) Mode: CONC Corr. Factor: 1.000000
User: rburr Custom ID1: Custom ID2: Custom ID3:
Comment: TETRA /4X

Elem	Ag3280	Al3961	As1890	As1972	B_2496	Ba2335	Be3130	Ca3179
Units	ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppm
Avg	**-.36485**	**856.49**	**11.761**	**12.719**	**506.90**	**13.400**	**.05125**	**73.251**
Stddev	.24583	4.29	.480	.946	6.12	.099	.01385	.202
%RSD	67.378	.50126	4.0786	7.4360	1.2074	.73562	27.020	.27624
#1	-.11081	857.42	11.862	11.631	513.43	13.456	.05223	73.445
#2	-.60155	851.81	11.239	13.177	505.97	13.287	.03694	73.266
#3	-.38219	860.24	12.182	13.348	501.29	13.459	.06458	73.042

Elem	Cd2144	Cd2288	Co2286	Cr2677	Cu2199	Cu3247	Fe2611	K_7664
Units	ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppm
Avg	**.04870**	**.25344**	**2.8377**	**1.9511**	**-.0386**	**.36604**	**2581.2**	**28.548**
Stddev	.02006	.07690	.1084	.1571	.1157	.02993	4.9	.033
%RSD	41.196	30.342	3.8215	8.0506	299.4	8.1775	.19058	.11677
#1	.04302	.22733	2.7182	1.9738	-.1695	.39778	2585.0	28.565
#2	.07098	.19300	2.9299	1.7839	.0499	.33832	2583.0	28.570
#3	.03209	.34000	2.8649	2.0956	.0038	.36203	2575.6	28.510

Elem	Mg2790	Mn2576	Mo2020	Na5895	Ni2316	Pb2203	Sb2068	Se1960
Units	ppm	ppb	ppb	ppm	ppb	ppb	ppb	ppb
Avg	**44.378**	**115.66**	**14.383**	**90.281**	**.78215**	**-.02645**	**-1.5623**	**-.22527**
Stddev	.054	1.33	.119	.075	.25811	.50764	.4572	1.1863
%RSD	.12071	1.1489	.82863	.08267	33.000	1919.2	29.265	526.60
#1	44.432	117.11	14.257	90.234	.99749	-.16890	-1.9418	-1.5833
#2	44.376	115.40	14.398	90.241	.49604	-.44765	-1.0547	.60867
#3	44.325	114.49	14.494	90.367	.85291	.53719	-1.6905	.29885

Elem	Sn1899	Sr4215	Ti3349	Tl1908	V_2924	Zn2062
Units	ppb	ppb	ppb	ppb	ppb	ppb
Avg	**.31607**	**426.4**	**7.6261**	**.18133**	**9.5743**	**1.8329**
Stddev	.29730	1.1	.2484	.50394	.2139	.0571
%RSD	94.061	.2465	3.2574	277.92	2.2341	3.1140
#1	.64518	427.5	7.4846	.75905	9.5353	1.7794
#2	.23607	426.3	7.4808	-.16778	9.8049	1.8929
#3	.06695	425.4	7.9130	-.04729	9.3825	1.8263

Sample Name: 1110003-19@2X Acquired: 11/11/2011 19:56:53 Type: Unk
Method: DuoEnviroMethodNEW(v2461) Mode: CONC Corr. Factor: 1.000000
User: rburr Custom ID1: Custom ID2: Custom ID3:
Comment: TETRA /4X

Int. Std.	Sc1880	Sc3613	Sc3613-2
Units	Cts/S	Cts/S	Cts/S
Avg	2530.3	761580.	47499.
Stddev	9.3	6794.	108.
%RSD	.36681	.89207	.22647
#1	2532.8	754060.	47389.
#2	2538.0	763410.	47506.
#3	2520.0	767270.	47604.

Sample Name: 1110003-20@2X Acquired: 11/11/2011 20:01:25 Type: Unk
Method: DuoEnviroMethodNEW(v2461) Mode: CONC Corr. Factor: 1.000000
User: rburr Custom ID1: Custom ID2: Custom ID3:
Comment: SOL. TETRA /4X

Elem	Ag3280	Al3961	As1890	As1972	B_2496	Ba2335	Be3130	Ca3179
Units	ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppm
Avg	**-.26025**	**100.16**	**9.2609**	**10.348**	**515.80**	**12.565**	**.01143**	**75.174**
Stddev	.22682	3.88	1.2684	1.172	.29	.042	.01577	.137
%RSD	87.152	3.8694	13.696	11.322	.05678	.33763	137.87	.18284
#1	-.03468	103.67	7.8368	9.2315	515.83	12.613	.02479	75.210
#2	-.25778	100.81	10.269	11.568	515.50	12.531	.01546	75.289
#3	-.48829	96.002	9.6771	10.244	516.08	12.552	-.00595	75.022

Elem	Cd2144	Cd2288	Co2286	Cr2677	Cu2199	Cu3247	Fe2611	K_7664
Units	ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppm
Avg	**.02890**	**.31800**	**.10419**	**1.1559**	**-.1132**	**.24035**	**2087.8**	**29.244**
Stddev	.02442	.06501	.05816	.0497	.2670	.21935	10.5	.046
%RSD	84.490	20.444	55.814	4.3013	235.9	91.263	.50510	.15850
#1	.02794	.24439	.05671	1.1027	.1277	.08456	2075.9	29.204
#2	.00498	.34206	.16906	1.1639	-.0669	.49120	2096.1	29.295
#3	.05379	.36756	.08682	1.2012	-.4003	.14529	2091.4	29.232

Elem	Mg2790	Mn2576	Mo2020	Na5895	Ni2316	Pb2203	Sb2068	Se1960
Units	ppm	ppb	ppb	ppm	ppb	ppb	ppb	ppb
Avg	**46.035**	**115.44**	**14.334**	**93.723**	**.76785**	**-.21688**	**-.48483**	**-.50375**
Stddev	.083	.06	.142	.519	.04141	.81155	1.3299	1.5722
%RSD	.18132	.05036	.98775	.55385	5.3929	374.19	274.30	312.10
#1	45.980	115.50	14.481	93.137	.80055	.37911	-.43841	1.0758
#2	46.131	115.39	14.321	94.127	.78172	-1.1411	-1.8374	-2.0686
#3	45.995	115.42	14.199	93.904	.72129	.11139	.82126	-.51848

Elem	Sn1899	Sr4215	Ti3349	Tl1908	V_2924	Zn2062
Units	ppb	ppb	ppb	ppb	ppb	ppb
Avg	**.16419**	**432.8**	**3.4335**	**.47104**	**7.8887**	**1.1805**
Stddev	.39189	.8	.3181	.37096	.1365	.0738
%RSD	238.68	.1875	9.2639	78.754	1.7307	6.2480
#1	-.11642	433.7	3.0894	.85554	7.8761	1.1939
#2	.61193	432.5	3.7168	.44228	7.7590	1.1010
#3	-.00294	432.2	3.4943	.11530	8.0312	1.2467

Sample Name: 1110003-20@2X Acquired: 11/11/2011 20:01:25 Type: Unk
Method: DuoEnviroMethodNEW(v2461) Mode: CONC Corr. Factor: 1.000000
User: rburr Custom ID1: Custom ID2: Custom ID3:
Comment: SOL. TETRA /4X

Int. Std.	Sc1880	Sc3613	Sc3613-2
Units	Cts/S	Cts/S	Cts/S
Avg	2540.1	770510.	47646.
Stddev	6.8	1745.	49.
%RSD	.26649	.22643	.10255
#1	2539.8	771170.	47592.
#2	2547.0	768530.	47661.
#3	2533.4	771820.	47686.

Sample Name: 1110003-21@2X Acquired: 11/11/2011 20:05:56 Type: Unk
Method: DuoEnviroMethodNEW(v2461) Mode: CONC Corr. Factor: 1.000000
User: rburr Custom ID1: Custom ID2: Custom ID3:
Comment: TETRA /4X

Elem	Ag3280	Al3961	As1890	As1972	B_2496	Ba2335	Be3130	Ca3179
Units	ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppm
Avg	**-.67707**	**24799.**	**8.0585**	**6.3330**	**84.946**	**111.41**	**.64480**	**57.583**
Stddev	.11590	20.	.7268	.2564	.997	.77	.01714	.266
%RSD	17.118	.08026	9.0190	4.0478	1.1739	.69325	2.6586	.46217
#1	-.54724	24812.	8.7332	6.0661	84.709	110.90	.62599	57.315
#2	-.77012	24776.	8.1535	6.5773	84.088	111.04	.65953	57.848
#3	-.71384	24809.	7.2889	6.3555	86.040	112.30	.64889	57.585

Elem	Cd2144	Cd2288	Co2286	Cr2677	Cu2199	Cu3247	Fe2611	K_7664
Units	ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppm
Avg	**.10562**	**.25504**	**4.8814**	**31.504**	**6.116**	**6.4889**	**19402.**	**5.4993**
Stddev	.00093	.03590	.0550	.433	.752	.1347	8.	.0099
%RSD	.87923	14.076	1.1270	1.3730	12.30	2.0757	.04053	.18080
#1	.10457	.24522	4.8408	31.355	5.473	6.3740	19393.	5.5105
#2	.10592	.22507	4.8593	31.165	5.931	6.4556	19402.	5.4959
#3	.10636	.29483	4.9440	31.991	6.943	6.6371	19409.	5.4915

Elem	Mg2790	Mn2576	Mo2020	Na5895	Ni2316	Pb2203	Sb2068	Se1960
Units	ppm	ppb	ppb	ppm	ppb	ppb	ppb	ppb
Avg	**16.398**	**481.72**	**1.5267**	**15.508**	**20.157**	**13.780**	**-2.2691**	**1.7748**
Stddev	.046	5.11	.0894	.045	.280	.754	.6768	.6315
%RSD	.28267	1.0600	5.8571	.29117	1.3874	5.4689	29.828	35.581
#1	16.373	479.04	1.4463	15.557	20.110	13.456	-2.7159	1.1164
#2	16.451	478.52	1.6230	15.469	19.904	13.242	-2.6011	2.3755
#3	16.369	487.61	1.5108	15.497	20.457	14.641	-1.4904	1.8326

Elem	Sn1899	Sr4215	Ti3349	Tl1908	V_2924	Zn2062
Units	ppb	ppb	ppb	ppb	ppb	ppb
Avg	**.53062**	**507.3**	**32.903**	**.40935**	**43.988**	**29.415**
Stddev	.29513	2.4	.184	.25169	.393	.251
%RSD	55.619	.4769	.55780	61.484	.89274	.85409
#1	.71666	504.7	32.857	.68409	43.735	29.345
#2	.68487	509.4	32.746	.35407	43.789	29.206
#3	.19033	507.7	33.105	.18991	44.440	29.694

Sample Name: 1110003-21@2X Acquired: 11/11/2011 20:05:56 Type: Unk
Method: DuoEnviroMethodNEW(v2461) Mode: CONC Corr. Factor: 1.000000
User: rburr Custom ID1: Custom ID2: Custom ID3:
Comment: TETRA /4X

Int. Std.	Sc1880	Sc3613	Sc3613-2
Units	Cts/S	Cts/S	Cts/S
Avg	2670.5	786520.	48315.
Stddev	15.5	7625.	311.
%RSD	.57999	.96944	.64389
#1	2682.4	790660.	48668.
#2	2676.1	791180.	48078.
#3	2653.0	777720.	48201.

Sample Name: 1110003-22@2X Acquired: 11/11/2011 20:10:26 Type: Unk
Method: DuoEnviroMethodNEW(v2461) Mode: CONC Corr. Factor: 1.000000
User: rburr Custom ID1: Custom ID2: Custom ID3:
Comment: SOL. TETRA /4X

Elem	Ag3280	Al3961	As1890	As1972	B_2496	Ba2335	Be3130	Ca3179
Units	ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppm
Avg	**-.41744**	**778.76**	**5.7748**	**4.6622**	**95.863**	**75.215**	**.10016**	**58.953**
Stddev	.11972	1.59	.6484	1.5180	1.555	.599	.01242	.237
%RSD	28.680	.20394	11.228	32.559	1.6225	.79598	12.401	.40161
#1	-.29087	777.98	5.2570	3.7157	96.034	74.948	.11447	59.205
#2	-.43255	780.58	6.5020	3.8579	94.229	74.796	.09212	58.919
#3	-.52888	777.71	5.5654	6.4131	97.326	75.901	.09390	58.736

Elem	Cd2144	Cd2288	Co2286	Cr2677	Cu2199	Cu3247	Fe2611	K_7664
Units	ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppm
Avg	**.05721**	**.17334**	**4.3373**	**2.6029**	**.7950**	**.69350**	**14776.**	**5.2998**
Stddev	.03687	.02831	.0364	.0094	.8561	.16612	46.	.0112
%RSD	64.449	16.334	.83884	.36225	107.7	23.953	.30845	.21064
#1	.09109	.19557	4.3004	2.5950	.7475	.88027	14757.	5.2938
#2	.01794	.14146	4.3383	2.6002	1.674	.56225	14744.	5.3127
#3	.06260	.18298	4.3732	2.6133	-.0363	.63799	14828.	5.2930

Elem	Mg2790	Mn2576	Mo2020	Na5895	Ni2316	Pb2203	Sb2068	Se1960
Units	ppm	ppb	ppb	ppm	ppb	ppb	ppb	ppb
Avg	**16.179**	**489.63**	**.54578**	**16.655**	**17.873**	**-.20963**	**-1.0670**	**.53934**
Stddev	.036	8.00	.03339	.077	.188	.21246	.1500	1.0099
%RSD	.22104	1.6340	6.1180	.46252	1.0522	101.35	14.062	187.25
#1	16.216	491.26	.50956	16.617	17.770	-.43214	-1.1874	.35227
#2	16.145	480.94	.57533	16.605	17.759	-.18788	-1.1148	1.6297
#3	16.175	496.69	.55245	16.744	18.090	-.00888	-.89893	-.36395

Elem	Sn1899	Sr4215	Ti3349	Tl1908	V_2924	Zn2062
Units	ppb	ppb	ppb	ppb	ppb	ppb
Avg	**.24600**	**492.2**	**5.9631**	**.70910**	**7.6483**	**23.581**
Stddev	.06237	2.1	.3579	.44925	.1754	.110
%RSD	25.352	.4172	6.0024	63.355	2.2932	.46718
#1	.22165	492.7	5.5499	1.1038	7.5452	23.518
#2	.31687	494.0	6.1766	.22025	7.5488	23.517
#3	.19948	490.0	6.1628	.80319	7.8508	23.708

Sample Name: 1110003-22@2X Acquired: 11/11/2011 20:10:26 Type: Unk
Method: DuoEnviroMethodNEW(v2461) Mode: CONC Corr. Factor: 1.000000
User: rburr Custom ID1: Custom ID2: Custom ID3:
Comment: SOL. TETRA /4X

Int. Std.	Sc1880	Sc3613	Sc3613-2
Units	Cts/S	Cts/S	Cts/S
Avg	2668.2	782830.	47847.
Stddev	13.4	13357.	288.
%RSD	.50186	1.7062	.60193
#1	2677.8	779500.	47517.
#2	2673.9	797540.	48046.
#3	2652.9	771460.	47977.

Sample Name: 1110003-23@2X Acquired: 11/11/2011 20:14:55 Type: Unk
Method: DuoEnviroMethodNEW(v2461) Mode: CONC Corr. Factor: 1.000000
User: rburr Custom ID1: Custom ID2: Custom ID3:
Comment: TETRA /4X

Elem	Ag3280	Al3961	As1890	As1972	B_2496	Ba2335	Be3130	Ca3179
Units	ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppm
Avg	**-.67436**	**2503.6**	**1.0585**	**.95366**	**87.115**	**217.80**	**.10788**	**263.53**
Stddev	.08740	12.4	1.3831	1.5250	.895	.81	.01173	1.68
%RSD	12.960	.49429	130.66	159.91	1.0271	.37376	10.878	.63609
#1	-.63658	2489.5	1.8214	.41364	86.111	217.68	.10254	261.60
#2	-.61221	2512.9	-.53800	2.6752	87.827	217.06	.09976	264.56
#3	-.77429	2508.3	1.8921	-.22783	87.408	218.67	.12133	264.44

Elem	Cd2144	Cd2288	Co2286	Cr2677	Cu2199	Cu3247	Fe2611	K_7664
Units	ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppm
Avg	**.15998**	**.37975**	**1.0176**	**3.7027**	**2.514**	**4.1140**	**10952.**	**7.1029**
Stddev	.01015	.07614	.0743	.0236	.544	.0581	47.	.0238
%RSD	6.3457	20.049	7.3049	.63594	21.62	1.4132	.43091	.33444
#1	.17132	.43872	.94025	3.7138	2.108	4.0547	10902.	7.0845
#2	.15687	.29380	1.0885	3.7186	2.303	4.1710	10995.	7.1297
#3	.15174	.40674	1.0241	3.6756	3.132	4.1162	10961.	7.0944

Elem	Mg2790	Mn2576	Mo2020	Na5895	Ni2316	Pb2203	Sb2068	Se1960
Units	ppm	ppb	ppb	ppm	ppb	ppb	ppb	ppb
Avg	**25.097**	**976.76**	**2.0236**	**32.601**	**3.1082**	**.94317**	**-1.2657**	**-.77253**
Stddev	.118	2.15	.0389	.179	.2747	.74479	1.1871	1.5101
%RSD	.46955	.21969	1.9224	.54987	8.8379	78.967	93.796	195.47
#1	24.970	974.53	2.0150	32.394	3.3328	.42446	-.77749	.40042
#2	25.202	978.81	1.9896	32.707	3.1898	1.7966	-2.6190	-2.4764
#3	25.121	976.92	2.0660	32.702	2.8019	.60845	-.40044	-.24165

Elem	Sn1899	Sr4215	Ti3349	Tl1908	V_2924	Zn2062
Units	ppb	ppb	ppb	ppb	ppb	ppb
Avg	**.51999**	**813.5**	**12.717**	**1.5092**	**8.2741**	**11.805**
Stddev	.22932	3.3	.147	.1094	.4431	.106
%RSD	44.101	.4022	1.1540	7.2472	5.3548	.89729
#1	.70486	816.2	12.552	1.3996	7.7716	11.865
#2	.26338	814.5	12.833	1.6184	8.4422	11.683
#3	.59175	809.9	12.766	1.5095	8.6085	11.867

Sample Name: 1110003-23@2X Acquired: 11/11/2011 20:14:55 Type: Unk
Method: DuoEnviroMethodNEW(v2461) Mode: CONC Corr. Factor: 1.000000
User: rburr Custom ID1: Custom ID2: Custom ID3:
Comment: TETRA /4X

Int. Std.	Sc1880	Sc3613	Sc3613-2
Units	Cts/S	Cts/S	Cts/S
Avg	2455.7	761650.	47813.
Stddev	9.8	1074.	410.
%RSD	.39824	.14104	.85800
#1	2461.1	761700.	48253.
#2	2461.6	760550.	47441.
#3	2444.4	762690.	47745.

Sample Name: 1110003-24@2X Acquired: 11/11/2011 20:19:34 Type: Unk
Method: DuoEnviroMethodNEW(v2461) Mode: CONC Corr. Factor: 1.000000
User: rburr Custom ID1: Custom ID2: Custom ID3:
Comment: SOL. TETRA /4X

Elem	Ag3280	Al3961	As1890	As1972	B_2496	Ba2335	Be3130	Ca3179
Units	ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppm
Avg	**-.54999**	**470.50**	**1.0105**	**-.41834**	**85.010**	**199.51**	**.00641**	**253.47**
Stddev	.24528	12.43	.5019	1.5664	1.278	1.38	.03414	3.32
%RSD	44.598	2.6427	49.671	374.43	1.5034	.69033	532.68	1.3095
#1	-.59584	472.98	1.5299	-1.4200	83.629	198.44	-.01361	249.83
#2	-.76911	481.50	.97343	1.3868	85.249	199.02	-.01299	254.26
#3	-.28502	457.01	.52814	-1.2218	86.151	201.06	.04583	256.33

Elem	Cd2144	Cd2288	Co2286	Cr2677	Cu2199	Cu3247	Fe2611	K_7664
Units	ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppm
Avg	**.12343**	**.42610**	**.96792**	**1.5003**	**2.002**	**2.0759**	**9474.2**	**6.5551**
Stddev	.04720	.08898	.09361	.1228	1.236	.1454	48.8	.0037
%RSD	38.239	20.882	9.6718	8.1833	61.73	7.0046	.51496	.05601
#1	.17754	.38230	1.0029	1.4275	2.422	1.9485	9422.3	6.5509
#2	.10206	.36752	1.0390	1.6420	.6106	2.2343	9519.2	6.5575
#3	.09070	.52849	.86185	1.4314	2.972	2.0448	9481.0	6.5571

Elem	Mg2790	Mn2576	Mo2020	Na5895	Ni2316	Pb2203	Sb2068	Se1960
Units	ppm	ppb	ppb	ppm	ppb	ppb	ppb	ppb
Avg	**23.475**	**946.13**	**1.6452**	**29.959**	**2.6494**	**-.76607**	**-.39605**	**1.0597**
Stddev	.111	14.63	.0225	.169	.1471	.32650	.16176	.4224
%RSD	.47326	1.5466	1.3703	.56367	5.5525	42.620	40.845	39.859
#1	23.347	929.57	1.6585	29.823	2.5622	-.70332	-.28113	.99955
#2	23.547	957.30	1.6191	30.148	2.8193	-1.1194	-.32598	.67061
#3	23.532	951.52	1.6578	29.907	2.5668	-.47550	-.58103	1.5089

Elem	Sn1899	Sr4215	Ti3349	Tl1908	V_2924	Zn2062
Units	ppb	ppb	ppb	ppb	ppb	ppb
Avg	**.31483**	**764.0**	**4.7295**	**1.4452**	**4.4757**	**11.036**
Stddev	.14547	4.6	.5337	.2672	.1952	.046
%RSD	46.205	.6059	11.285	18.487	4.3614	.41912
#1	.27299	762.7	4.4386	1.1369	4.2845	10.985
#2	.47663	760.2	5.3456	1.6078	4.6747	11.049
#3	.19486	769.2	4.4045	1.5910	4.4679	11.074

Sample Name: 1110003-24@2X Acquired: 11/11/2011 20:19:34 Type: Unk
Method: DuoEnviroMethodNEW(v2461) Mode: CONC Corr. Factor: 1.000000
User: rburr Custom ID1: Custom ID2: Custom ID3:
Comment: SOL. TETRA /4X

Int. Std.	Sc1880	Sc3613	Sc3613-2
Units	Cts/S	Cts/S	Cts/S
Avg	2452.6	750260.	46835.
Stddev	10.5	9210.	318.
%RSD	.42931	1.2275	.67878
#1	2459.7	760620.	47127.
#2	2457.5	743000.	46882.
#3	2440.5	747170.	46496.

Sample Name: SEQ-CCV Acquired: 11/11/2011 20:25:13 Type: QC
Method: DuoEnviroMethodNEW(v2461) Mode: CONC Corr. Factor: 1.000000
User: rburr Custom ID1: Custom ID2: Custom ID3:
Comment: 11K0392

Elem	Ag3280	Al3961	As1890	As1972	B_2496	Ba2335	Be3130
Units	ppb	ppb	ppb	ppb	ppb	ppb	ppb
Avg	**470.71**	**9704.2**	**1042.2**	F **1122.5**	**974.62**	**1017.9**	**959.63**
Stddev	3.54	28.3	3.5	5.0	9.73	5.4	1.95
%RSD	.75263	.29201	.33410	.44794	.99797	.52682	.20300
#1	470.87	9672.0	1040.9	1124.1	977.79	1016.3	959.22
#2	467.08	9715.3	1039.5	1116.8	963.70	1013.5	957.91
#3	474.16	9725.3	1046.1	1126.4	982.36	1023.9	961.74
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Fail	Chk Pass	Chk Pass	Chk Pass
Value				1000.0			
Range				±100.00			

Elem	Ca3179	Cd2144	Cd2288	Co2286	Cr2677	Cu2199	Cu3247
Units	ppm	ppb	ppb	ppb	ppb	ppb	ppb
Avg	**49.169**	**1050.8**	**1061.2**	**1073.7**	**998.45**	**969.9**	**1076.9**
Stddev	.116	4.8	4.3	5.9	10.90	10.4	8.6
%RSD	.23506	.45930	.40921	.55049	1.0915	1.074	.79446
#1	49.284	1048.1	1059.6	1072.1	1000.0	973.5	1074.6
#2	49.169	1047.9	1057.9	1068.8	986.84	958.1	1069.7
#3	49.053	1056.3	1066.1	1080.3	1008.5	978.0	1086.4
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value							
Range							

Elem	Fe2611	K_7664	Mg2790	Mn2576	Mo2020	Na5895	Ni2316
Units	ppb	ppm	ppm	ppb	ppb	ppm	ppb
Avg	**9551.8**	**9.6318**	F **38.021**	**972.84**	**1040.8**	**47.398**	**1009.0**
Stddev	32.6	.0169	.154	10.86	4.7	.296	3.9
%RSD	.34154	.17510	.40397	1.1159	.45509	.62409	.38264
#1	9523.6	9.6462	37.890	975.53	1038.5	47.127	1007.5
#2	9544.4	9.6132	37.984	960.89	1037.7	47.353	1006.0
#3	9587.5	9.6360	38.190	982.09	1046.3	47.713	1013.3
Check ?	Chk Pass	Chk Pass	Chk Fail	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value			50.000				
Range			±-5.0000				

Sample Name: SEQ-CCV Acquired: 11/11/2011 20:25:13 Type: QC
Method: DuoEnviroMethodNEW(v2461) Mode: CONC Corr. Factor: 1.000000
User: rburr Custom ID1: Custom ID2: Custom ID3:
Comment: 11K0392

Elem	Pb2203	Sb2068	Se1960	Sn1899	Sr4215	Ti3349	Tl1908
Units	ppb	ppb	ppb	ppb	ppb	ppb	ppb
Avg	**1034.5**	F **1129.9**	**1072.9**	**1040.7**	**1030.**	**1026.5**	**988.64**
Stddev	7.1	7.4	4.8	5.8	5.	2.5	3.80
%RSD	.68447	.65292	.44335	.55608	.4484	.24555	.38396
#1	1032.9	1124.7	1071.2	1037.6	1034.	1028.5	986.16
#2	1028.4	1126.7	1069.2	1037.2	1032.	1027.4	986.75
#3	1042.3	1138.3	1078.3	1047.4	1025.	1023.7	993.01
Check ?	Chk Pass	Chk Fail	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value		1000.0					
Range		±100.00					

Elem	V_2924	Zn2062
Units	ppb	ppb
Avg	**990.56**	**1045.3**
Stddev	10.68	5.3
%RSD	1.0786	.50243
#1	992.49	1042.6
#2	979.04	1041.9
#3	1000.1	1051.3
Check ?	Chk Pass	Chk Pass
Value		
Range		

Int. Std.	Sc1880	Sc3613	Sc3613-2
Units	Cts/S	Cts/S	Cts/S
Avg	2581.5	771890.	46978.
Stddev	10.4	6795.	293.
%RSD	.40328	.88029	.62300
#1	2587.2	769790.	47281.
#2	2587.9	779490.	46697.
#3	2569.5	766390.	46957.

Sample Name: SEQ-CCB Acquired: 11/11/2011 20:32:28 Type: QC
Method: DuoEnviroMethodNEW(v2461) Mode: CONC Corr. Factor: 1.000000
User: rburr Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Ag3280	Al3961	As1890	As1972	B_2496	Ba2335	Be3130	Ca3179
Units	ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppm
Avg	**-.15108**	**6.2288**	**.58907**	**.96711**	**-.25441**	**.24844**	**.16292**	**.05031**
Stddev	.20511	6.0742	.16541	1.3209	.27529	.01715	.03901	.01378
%RSD	135.76	97.517	28.080	136.59	108.21	6.9040	23.942	27.382
#1	-.30217	.82783	.73261	2.4450	.06098	.24728	.12163	.03480
#2	.08242	5.0541	.40818	-.09870	-.44652	.26614	.16800	.05503
#3	-.23349	12.805	.62641	.55510	-.37768	.23190	.19914	.06112
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit								
Low Limit								

Elem	Cd2144	Cd2288	Co2286	Cr2677	Cu2199	Cu3247	Fe2611	K_7664
Units	ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppm
Avg	**.22339**	**-.01762**	**.13606**	**.20908**	**-.0645**	**-.46342**	**6.6671**	**.03486**
Stddev	.04936	.06040	.04207	.14724	.8228	.13615	2.0813	.01169
%RSD	22.095	342.78	30.922	70.423	1275.	29.379	31.217	33.520
#1	.25843	.02751	.17812	.37879	-.3001	-.59055	8.8761	.02701
#2	.24479	-.08624	.09397	.13304	-.7438	-.31976	6.3821	.04829
#3	.16694	.00587	.13610	.11540	.8504	-.47996	4.7430	.02929
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit								
Low Limit								

Elem	Mg2790	Mn2576	Mo2020	Na5895	Ni2316	Pb2203	Sb2068	Se1960
Units	ppm	ppb	ppb	ppm	ppb	ppb	ppb	ppb
Avg	**.00538**	**.34067**	**.83013**	**.05702**	**.36901**	**.81234**	**-.16763**	**-.48422**
Stddev	.00241	.05322	.07547	.01857	.07192	.85842	.77527	.56267
%RSD	44.871	15.623	9.0909	32.572	19.491	105.67	462.50	116.20
#1	.00273	.40128	.90898	.04641	.44971	1.6883	.57054	-.36301
#2	.00745	.31913	.75857	.07847	.34563	-.02743	-.97531	.00797
#3	.00596	.30159	.82284	.04619	.31168	.77616	-.09811	-1.0976
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit								
Low Limit								

Sample Name: SEQ-CCB Acquired: 11/11/2011 20:32:28 Type: QC
Method: DuoEnviroMethodNEW(v2461) Mode: CONC Corr. Factor: 1.000000
User: rburr Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Sn1899	Sr4215	Ti3349	Tl1908	V_2924	Zn2062
Units	ppb	ppb	ppb	ppb	ppb	ppb
Avg	**.32727**	**.4162**	**.63543**	**.31862**	**.34577**	**.16301**
Stddev	.17753	.0780	.19848	.60432	.06697	.00828
%RSD	54.247	18.73	31.235	189.67	19.367	5.0804
#1	.29694	.3445	.48937	-.27377	.41822	.15389
#2	.51801	.4992	.55551	.29542	.33296	.16507
#3	.16685	.4050	.86141	.93420	.28614	.17006
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit						
Low Limit						

Int. Std.	Sc1880	Sc3613	Sc3613-2
Units	Cts/S	Cts/S	Cts/S
Avg	2802.6	792030.	46153.
Stddev	5.6	5217.	270.
%RSD	.19981	.65864	.58475
#1	2797.3	786280.	46008.
#2	2808.4	796470.	45988.
#3	2802.1	793330.	46465.

Sample Name: 1110003-25@5X Acquired: 11/11/2011 20:37:05 Type: Unk
Method: DuoEnviroMethodNEW(v2461) Mode: CONC Corr. Factor: 1.000000
User: rburr Custom ID1: Custom ID2: Custom ID3:
Comment: TETRA /4X

Elem	Ag3280	Al3961	As1890	As1972	B_2496	Ba2335	Be3130	Ca3179
Units	ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppm
Avg	**-.27459**	**11341.**	**2.5047**	**.91908**	**31.953**	**19.882**	**.29933**	**20.147**
Stddev	.26038	29.	.7197	.74749	.351	.097	.02804	.114
%RSD	94.826	.25248	28.733	81.331	1.0980	.48744	9.3677	.56473
#1	-.53062	11338.	3.1464	.05617	32.358	19.859	.27857	20.274
#2	-.01007	11314.	2.6413	1.3338	31.758	19.800	.33122	20.114
#3	-.28306	11371.	1.7266	1.3673	31.742	19.989	.28819	20.054

Elem	Cd2144	Cd2288	Co2286	Cr2677	Cu2199	Cu3247	Fe2611	K_7664
Units	ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppm
Avg	**.10189**	**.11061**	**.53941**	**8.9928**	**3.006**	**2.5632**	**1760.2**	**2.4571**
Stddev	.03215	.02169	.08697	.0587	.253	.1505	6.1	.0123
%RSD	31.553	19.607	16.122	.65329	8.426	5.8715	.34701	.50174
#1	.13871	.08787	.61716	8.9636	3.233	2.6681	1753.2	2.4713
#2	.07940	.11288	.55558	9.0604	3.052	2.3908	1764.0	2.4489
#3	.08756	.13106	.44549	8.9543	2.733	2.6308	1763.4	2.4512

Elem	Mg2790	Mn2576	Mo2020	Na5895	Ni2316	Pb2203	Sb2068	Se1960
Units	ppm	ppb	ppb	ppm	ppb	ppb	ppb	ppb
Avg	**7.6094**	**47.690**	**1.3107**	**2.9544**	**3.2974**	**4.7582**	**-.60713**	**1.4915**
Stddev	.0110	.115	.0602	.0192	.1497	.4682	.67816	.6634
%RSD	.14483	.24190	4.5964	.65033	4.5402	9.8402	111.70	44.478
#1	7.6216	47.586	1.2895	2.9347	3.4228	4.8281	.15832	2.1749
#2	7.6002	47.814	1.2639	2.9554	3.1317	4.2589	-1.1329	1.4496
#3	7.6062	47.670	1.3787	2.9731	3.3378	5.1875	-.84680	.85008

Elem	Sn1899	Sr4215	Ti3349	Tl1908	V_2924	Zn2062
Units	ppb	ppb	ppb	ppb	ppb	ppb
Avg	**.21368**	**156.0**	**27.105**	**.33499**	**10.675**	**3.9036**
Stddev	.14351	1.1	.248	.54527	.053	.0086
%RSD	67.162	.7298	.91516	162.77	.49516	.21947
#1	.05141	157.3	26.839	.88164	10.685	3.9054
#2	.26573	155.3	27.146	-.20889	10.722	3.9111
#3	.32391	155.3	27.330	.33221	10.618	3.8943

Sample Name: 1110003-25@5X Acquired: 11/11/2011 20:37:05 Type: Unk
Method: DuoEnviroMethodNEW(v2461) Mode: CONC Corr. Factor: 1.000000
User: rburr Custom ID1: Custom ID2: Custom ID3:
Comment: TETRA /4X

Int. Std.	Sc1880	Sc3613	Sc3613-2
Units	Cts/S	Cts/S	Cts/S
Avg	2775.6	808120.	48486.
Stddev	7.8	2095.	52.
%RSD	.28137	.25926	.10672
#1	2781.8	810110.	48429.
#2	2778.2	805930.	48531.
#3	2766.8	808310.	48498.

Sample Name: 1110003-26@2X Acquired: 11/11/2011 20:41:37 Type: Unk
Method: DuoEnviroMethodNEW(v2461) Mode: CONC Corr. Factor: 1.000000
User: rburr Custom ID1: Custom ID2: Custom ID3:
Comment: SOL. TETRA /4X

Elem	Ag3280	Al3961	As1890	As1972	B_2496	Ba2335	Be3130	Ca3179
Units	ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppm
Avg	**-.38521**	**466.28**	**2.9031**	**2.2599**	**81.836**	**14.458**	**.03206**	**37.084**
Stddev	.08991	2.40	.9431	2.4996	.393	.121	.02139	.375
%RSD	23.341	.51485	32.486	110.61	.48031	.84028	66.732	1.0117
#1	-.48888	466.06	3.0521	4.6569	81.832	14.522	.02239	36.707
#2	-.33815	468.78	1.8944	-.33113	82.232	14.317	.01721	37.457
#3	-.32860	464.00	3.7629	2.4540	81.446	14.533	.05658	37.087

Elem	Cd2144	Cd2288	Co2286	Cr2677	Cu2199	Cu3247	Fe2611	K_7664
Units	ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppm
Avg	**.09935**	**.20442**	**.42453**	**2.0823**	**.4397**	**.13990**	**1701.3**	**5.4740**
Stddev	.02807	.00842	.05034	.1550	.4143	.10665	10.8	.0447
%RSD	28.250	4.1178	11.858	7.4453	94.21	76.234	.63725	.81615
#1	.10853	.20214	.36969	2.1634	-.0091	.20726	1689.4	5.4371
#2	.06784	.19739	.43527	2.1800	.8074	.01694	1710.5	5.5236
#3	.12167	.21375	.46865	1.9036	.5210	.19550	1704.1	5.4612

Elem	Mg2790	Mn2576	Mo2020	Na5895	Ni2316	Pb2203	Sb2068	Se1960
Units	ppm	ppb	ppb	ppm	ppb	ppb	ppb	ppb
Avg	**16.460**	**76.345**	**1.3158**	**6.7776**	**1.6212**	**-.62366**	**.07697**	**.61069**
Stddev	.155	.160	.0501	.0597	.1254	.71758	1.3742	.69610
%RSD	.94114	.20961	3.8060	.88063	7.7365	115.06	1785.3	113.98
#1	16.294	76.168	1.2963	6.7095	1.7238	.13186	1.5085	1.3320
#2	16.601	76.479	1.2785	6.8207	1.6584	-.70679	-1.2316	-.05710
#3	16.485	76.389	1.3727	6.8027	1.4814	-1.2961	-.04600	.55717

Elem	Sn1899	Sr4215	Ti3349	Tl1908	V_2924	Zn2062
Units	ppb	ppb	ppb	ppb	ppb	ppb
Avg	**-.03375**	**292.8**	**4.8019**	**-.11310**	**2.6757**	**3.4788**
Stddev	.09216	2.7	.4833	.77331	.1356	.0408
%RSD	273.08	.9103	10.064	683.73	5.0689	1.1721
#1	-.01104	290.7	4.2776	.49398	2.5236	3.5055
#2	.04494	295.8	5.2295	.15045	2.7841	3.4990
#3	-.13514	292.0	4.8986	-.98373	2.7195	3.4319

Sample Name: 1110003-26@2X Acquired: 11/11/2011 20:41:37 Type: Unk
Method: DuoEnviroMethodNEW(v2461) Mode: CONC Corr. Factor: 1.000000
User: rburr Custom ID1: Custom ID2: Custom ID3:
Comment: SOL. TETRA /4X

Int. Std.	Sc1880	Sc3613	Sc3613-2
Units	Cts/S	Cts/S	Cts/S
Avg	2761.0	813920.	49407.
Stddev	21.0	3289.	264.
%RSD	.75963	.40408	.53419
#1	2751.6	817700.	49707.
#2	2785.0	811750.	49302.
#3	2746.4	812300.	49212.

Sample Name: 1110003-27 Acquired: 11/11/2011 20:46:11 Type: Unk
Method: DuoEnviroMethodNEW(v2461) Mode: CONC Corr. Factor: 1.000000
User: rburr Custom ID1: Custom ID2: Custom ID3:
Comment: TETRA /4X

Elem	Ag3280	Al3961	As1890	As1972	B_2496	Ba2335	Be3130	Ca3179
Units	ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppm
Avg	**-.16928**	**11.631**	**1.0589**	**.55231**	**3.9324**	**.04350**	**-.02793**	**.02187**
Stddev	.14278	1.035	.2282	2.0334	.2934	.02492	.03091	.00064
%RSD	84.346	8.8948	21.547	368.17	7.4619	57.291	110.65	2.9129
#1	-.29708	10.985	1.1983	-.31226	3.5999	.04457	.00655	.02238
#2	-.01517	12.824	.79561	2.8752	4.1552	.06787	-.05315	.02207
#3	-.19559	11.084	1.1828	-.90597	4.0421	.01806	-.03719	.02116

Elem	Cd2144	Cd2288	Co2286	Cr2677	Cu2199	Cu3247	Fe2611	K_7664
Units	ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppm
Avg	**.00080**	**-.09045**	**-.08778**	**.87044**	**.1914**	**-.38203**	**5.3413**	**.03121**
Stddev	.01880	.04794	.07464	.16358	.3597	.21959	1.8695	.01085
%RSD	2342.0	53.003	85.027	18.793	187.9	57.479	35.000	34.754
#1	.00456	-.09391	-.01753	1.0484	-.1036	-.33697	6.9567	.03667
#2	-.01960	-.13656	-.16615	.83639	.5920	-.18848	5.7736	.01872
#3	.01745	-.04087	-.07967	.72657	.0856	-.62066	3.2935	.03825

Elem	Mg2790	Mn2576	Mo2020	Na5895	Ni2316	Pb2203	Sb2068	Se1960
Units	ppm	ppb	ppb	ppm	ppb	ppb	ppb	ppb
Avg	**.00038**	**.23617**	**.14680**	**.04488**	**.04182**	**.12496**	**-.18158**	**.31288**
Stddev	.00578	.00457	.06290	.00417	.14414	.60404	.34189	.57584
%RSD	1538.6	1.9332	42.844	9.2941	344.63	483.38	188.28	184.05
#1	.00695	.23115	.09064	.04515	.15952	-.13726	.21008	.61992
#2	-.00195	.23729	.21476	.04891	.08489	-.30365	-.42028	.67013
#3	-.00388	.24008	.13500	.04058	-.11894	.81580	-.33455	-.35141

Elem	Sn1899	Sr4215	Ti3349	Tl1908	V_2924	Zn2062
Units	ppb	ppb	ppb	ppb	ppb	ppb
Avg	**.10155**	**.1972**	**.14536**	**-.03991**	**.00143**	**.65315**
Stddev	.18353	.0653	.12196	.30240	.08714	.01670
%RSD	180.73	33.13	83.904	757.80	6076.8	2.5572
#1	.19548	.1592	.00458	-.36881	.05093	.65022
#2	.21909	.1598	.21247	.22611	-.09918	.63810
#3	-.10993	.2726	.21903	.02299	.05255	.67112

Sample Name: 1110003-27 Acquired: 11/11/2011 20:46:11 Type: Unk
Method: DuoEnviroMethodNEW(v2461) Mode: CONC Corr. Factor: 1.000000
User: rburr Custom ID1: Custom ID2: Custom ID3:
Comment: TETRA /4X

Int. Std.	Sc1880	Sc3613	Sc3613-2
Units	Cts/S	Cts/S	Cts/S
Avg	2895.6	806870.	47902.
Stddev	11.8	6269.	209.
%RSD	.40582	.77700	.43663
#1	2902.2	807780.	47994.
#2	2902.5	800190.	47663.
#3	2882.0	812630.	48049.

Sample Name: 1110003-28 Acquired: 11/11/2011 20:50:49 Type: Unk
Method: DuoEnviroMethodNEW(v2461) Mode: CONC Corr. Factor: 1.000000
User: rburr Custom ID1: Custom ID2: Custom ID3:
Comment: TETRA /4X

Elem	Ag3280	Al3961	As1890	As1972	B_2496	Ba2335	Be3130	Ca3179
Units	ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppm
Avg	**-.56656**	**441.14**	**9.0395**	**7.9237**	**75.047**	**31.416**	**.16996**	**177.58**
Stddev	.26263	5.42	.8396	.8781	.803	.186	.02699	.34
%RSD	46.355	1.2296	9.2885	11.082	1.0702	.59280	15.878	.19199
#1	-.86981	446.70	9.7033	8.7735	75.689	31.298	.19084	177.94
#2	-.41435	440.85	8.0956	7.0198	74.147	31.320	.17956	177.54
#3	-.41550	435.86	9.3195	7.9777	75.305	31.631	.13949	177.26

Elem	Cd2144	Cd2288	Co2286	Cr2677	Cu2199	Cu3247	Fe2611	K_7664
Units	ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppm
Avg	**.11279**	**.30258**	**.16108**	**2.7129**	**.1356**	**.58900**	**10388.**	**1.3509**
Stddev	.04235	.08299	.09277	.0592	.1727	.07143	23.	.0150
%RSD	37.545	27.427	57.596	2.1841	127.4	12.127	.22380	1.1073
#1	.10275	.20975	.26800	2.7304	.2644	.50830	10397.	1.3664
#2	.15926	.36960	.11336	2.7614	.2030	.61460	10404.	1.3497
#3	.07636	.32838	.10187	2.6469	-.0606	.64411	10361.	1.3366

Elem	Mg2790	Mn2576	Mo2020	Na5895	Ni2316	Pb2203	Sb2068	Se1960
Units	ppm	ppb	ppb	ppm	ppb	ppb	ppb	ppb
Avg	**66.231**	**232.87**	**9.4624**	**7.2148**	**2.7268**	**-.22891**	**-.20865**	**.81970**
Stddev	.133	1.01	.0435	.0049	.1205	.41094	.26149	.94358
%RSD	.20011	.43536	.45936	.06717	4.4180	179.52	125.32	115.11
#1	66.299	234.04	9.4454	7.2095	2.6613	-.12868	-.18216	1.8540
#2	66.317	232.31	9.4301	7.2159	2.8658	-.68069	-.48237	.00595
#3	66.079	232.27	9.5118	7.2189	2.6533	.12264	.03859	.59910

Elem	Sn1899	Sr4215	Ti3349	Tl1908	V_2924	Zn2062
Units	ppb	ppb	ppb	ppb	ppb	ppb
Avg	**.52679**	**288.4**	**6.1007**	**-.39202**	**8.3316**	**3.8800**
Stddev	.33345	1.1	.0968	.40901	.0330	.0832
%RSD	63.299	.3752	1.5869	104.33	.39609	2.1451
#1	.28221	288.6	6.1880	.07979	8.3271	3.7846
#2	.90662	289.3	6.1174	-.64623	8.3010	3.9182
#3	.39153	287.2	5.9966	-.60963	8.3666	3.9373

Sample Name: 1110003-28 Acquired: 11/11/2011 20:50:49 Type: Unk
Method: DuoEnviroMethodNEW(v2461) Mode: CONC Corr. Factor: 1.000000
User: rburr Custom ID1: Custom ID2: Custom ID3:
Comment: TETRA /4X

Int. Std.	Sc1880	Sc3613	Sc3613-2
Units	Cts/S	Cts/S	Cts/S
Avg	2527.4	764250.	47536.
Stddev	9.5	1226.	133.
%RSD	.37712	.16035	.28046
#1	2530.4	762940.	47628.
#2	2535.0	764420.	47383.
#3	2516.7	765380.	47598.

Sample Name: 1K08018-DUP2 Acquired: 11/11/2011 20:55:29 Type: Unk
Method: DuoEnviroMethodNEW(v2461) Mode: CONC Corr. Factor: 1.000000
User: rburr Custom ID1: Custom ID2: Custom ID3:
Comment: TETRA /4X DUP.

Elem	Ag3280	Al3961	As1890	As1972	B_2496	Ba2335	Be3130	Ca3179
Units	ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppm
Avg	**-.45421**	**454.30**	**9.1753**	**9.1688**	**75.195**	**31.976**	**.14822**	**181.21**
Stddev	.41697	7.67	.5828	1.8567	.594	.094	.04337	1.27
%RSD	91.803	1.6881	6.3524	20.250	.78933	.29537	29.264	.70033
#1	-.87507	448.42	9.7819	11.248	75.242	32.024	.19584	182.08
#2	-.04123	451.51	8.6195	8.5838	74.580	31.868	.13785	181.79
#3	-.44632	462.97	9.1244	7.6752	75.764	32.038	.11098	179.75

Elem	Cd2144	Cd2288	Co2286	Cr2677	Cu2199	Cu3247	Fe2611	K_7664
Units	ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppm
Avg	**.03312**	**.26455**	**.05689**	**2.6766**	**-.7918**	**.26029**	**10683.**	**1.4021**
Stddev	.05243	.09854	.09871	.0670	.4370	.15224	21.	.0048
%RSD	158.30	37.247	173.51	2.5018	55.19	58.488	.19482	.33918
#1	.03163	.33703	-.05708	2.6839	-.9730	.09316	10673.	1.3968
#2	-.01855	.15235	.11236	2.7396	-1.109	.29666	10669.	1.4033
#3	.08629	.30426	.11540	2.6063	-.2934	.39105	10707.	1.4061

Elem	Mg2790	Mn2576	Mo2020	Na5895	Ni2316	Pb2203	Sb2068	Se1960
Units	ppm	ppb	ppb	ppm	ppb	ppb	ppb	ppb
Avg	**67.665**	**236.82**	**10.481**	**7.4147**	**2.7757**	**-.78743**	**-.62331**	**2.2344**
Stddev	.089	.73	.074	.0239	.2173	.07096	.84952	.3506
%RSD	.13081	.30820	.70484	.32173	7.8281	9.0111	136.29	15.692
#1	67.767	237.55	10.437	7.3873	2.6794	-.70743	-1.5176	1.9284
#2	67.605	236.09	10.439	7.4310	3.0245	-.81213	-.52528	2.1579
#3	67.624	236.83	10.566	7.4257	2.6233	-.84274	.17295	2.6170

Elem	Sn1899	Sr4215	Ti3349	Tl1908	V_2924	Zn2062
Units	ppb	ppb	ppb	ppb	ppb	ppb
Avg	**.19741**	**299.0**	**6.1800**	**-.03403**	**8.5634**	**2.6351**
Stddev	.20473	1.8	.4188	.51905	.1298	.0856
%RSD	103.71	.6002	6.7770	1525.2	1.5153	3.2474
#1	-.03894	301.0	6.2126	.54714	8.6530	2.5637
#2	.31987	298.7	5.7458	-.45149	8.4146	2.6118
#3	.31129	297.4	6.5815	-.19775	8.6225	2.7300

Sample Name: 1K08018-DUP2 Acquired: 11/11/2011 20:55:29 Type: Unk
Method: DuoEnviroMethodNEW(v2461) Mode: CONC Corr. Factor: 1.000000
User: rburr Custom ID1: Custom ID2: Custom ID3:
Comment: TETRA /4X DUP.

Int. Std.	Sc1880	Sc3613	Sc3613-2
Units	Cts/S	Cts/S	Cts/S
Avg	2518.6	774940.	48086.
Stddev	5.2	4405.	192.
%RSD	.20767	.56848	.39981
#1	2520.4	771730.	47888.
#2	2522.7	779960.	48099.
#3	2512.7	773130.	48271.

Sample Name: 1K08018-MS1 Acquired: 11/11/2011 21:00:07 Type: Unk
Method: DuoEnviroMethodNEW(v2461) Mode: CONC Corr. Factor: 1.000000
User: rburr Custom ID1: Custom ID2: Custom ID3:
Comment: TETRA /4X

Elem	Ag3280	Al3961	As1890	As1972	B_2496	Ba2335	Be3130	Ca3179
Units	ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppm
Avg	**217.72**	**2412.2**	**522.27**	**561.40**	**988.62**	**2006.7**	**47.734**	**172.22**
Stddev	2.16	4.3	2.57	.88	8.24	5.9	.162	.66
%RSD	.99067	.17861	.49135	.15649	.83357	.29599	.33965	.38592
#1	217.71	2416.0	520.54	560.45	990.60	2001.5	47.851	171.46
#2	219.88	2413.0	521.04	561.56	995.70	2005.3	47.549	172.68
#3	215.56	2407.5	525.21	562.18	979.57	2013.2	47.802	172.52

Elem	Cd2144	Cd2288	Co2286	Cr2677	Cu2199	Cu3247	Fe2611	K_7664
Units	ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppm
Avg	**250.84**	**266.35**	**509.41**	**184.72**	**235.5**	**263.41**	**10966.**	**5.9897**
Stddev	1.28	.96	1.58	1.08	1.4	2.21	58.	.0013
%RSD	.51159	.36227	.31009	.58354	.6016	.83955	.52819	.02225
#1	250.02	266.04	508.05	184.94	234.8	263.64	11009.	5.9909
#2	250.19	265.58	509.04	185.67	237.1	265.50	10900.	5.9883
#3	252.32	267.43	511.14	183.55	234.5	261.10	10988.	5.9899

Elem	Mg2790	Mn2576	Mo2020	Na5895	Ni2316	Pb2203	Sb2068	Se1960
Units	ppm	ppb	ppb	ppm	ppb	ppb	ppb	ppb
Avg	**66.869**	**677.14**	**999.92**	**11.599**	**482.48**	**496.98**	**526.01**	**171.05**
Stddev	.438	5.11	4.45	.052	1.75	1.19	1.46	.70
%RSD	.65513	.75525	.44527	.44628	.36171	.23933	.27702	.40994
#1	67.318	679.58	996.24	11.617	480.96	496.23	524.48	170.62
#2	66.443	680.57	998.65	11.540	482.08	496.36	526.17	171.86
#3	66.846	671.26	1004.9	11.638	484.39	498.35	527.39	170.67

Elem	Sn1899	Sr4215	Ti3349	Tl1908	V_2924	Zn2062
Units	ppb	ppb	ppb	ppb	ppb	ppb
Avg	**957.81**	**1251.**	**958.01**	**465.79**	**471.29**	**495.96**
Stddev	2.47	3.	2.22	2.18	2.65	1.47
%RSD	.25787	.2077	.23213	.46805	.56243	.29728
#1	956.13	1251.	960.29	463.35	472.46	494.71
#2	956.66	1254.	957.91	466.48	473.15	495.60
#3	960.65	1249.	955.84	467.54	468.26	497.59

Sample Name: 1K08018-MS1 Acquired: 11/11/2011 21:00:07 Type: Unk
Method: DuoEnviroMethodNEW(v2461) Mode: CONC Corr. Factor: 1.000000
User: rburr Custom ID1: Custom ID2: Custom ID3:
Comment: TETRA /4X

Int. Std.	Sc1880	Sc3613	Sc3613-2
Units	Cts/S	Cts/S	Cts/S
Avg	2540.8	781900.	48827.
Stddev	6.9	2558.	152.
%RSD	.27287	.32709	.31080
#1	2547.3	781300.	48711.
#2	2541.6	779690.	48999.
#3	2533.5	784700.	48770.

Sample Name: 1K08018-PS1 Acquired: 11/11/2011 21:04:33 Type: Unk
Method: DuoEnviroMethodNEW(v2461) Mode: CONC Corr. Factor: 1.000000
User: rburr Custom ID1: Custom ID2: Custom ID3:
Comment: TETRA /4X

Elem	Ag3280	Al3961	As1890	As1972	B_2496	Ba2335	Be3130	Ca3179
Units	ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppm
Avg	**254.98**	**2478.2**	**288.72**	**314.42**	**1130.5**	**2156.7**	**52.087**	**182.27**
Stddev	2.21	1.3	1.64	.52	4.7	9.9	.140	1.37
%RSD	.86565	.05179	.56888	.16520	.41599	.46048	.26840	.74919
#1	257.53	2479.5	288.71	314.86	1135.5	2154.0	51.928	180.71
#2	253.72	2478.3	287.08	313.85	1129.7	2148.4	52.141	183.26
#3	253.69	2476.9	290.37	314.55	1126.2	2167.7	52.191	182.83

Elem	Cd2144	Cd2288	Co2286	Cr2677	Cu2199	Cu3247	Fe2611	K_7664
Units	ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppm
Avg	**137.45**	**146.81**	**550.34**	**206.50**	**255.5**	**280.85**	**11295.**	**6.3800**
Stddev	.39	.59	2.82	.96	.3	2.44	16.	.0309
%RSD	.28280	.39989	.51237	.46573	.1318	.86720	.14337	.48481
#1	137.54	146.98	549.07	207.61	255.2	283.63	11282.	6.3460
#2	137.02	146.16	548.38	205.96	255.3	279.10	11313.	6.4064
#3	137.78	147.30	553.57	205.92	255.9	279.82	11289.	6.3876

Elem	Mg2790	Mn2576	Mo2020	Na5895	Ni2316	Pb2203	Sb2068	Se1960
Units	ppm	ppb	ppb	ppm	ppb	ppb	ppb	ppb
Avg	**69.547**	**738.67**	**1098.2**	**12.073**	**520.39**	**273.44**	**298.47**	**291.41**
Stddev	.226	2.70	5.4	.017	2.12	.89	.94	1.67
%RSD	.32521	.36524	.49534	.14271	.40826	.32496	.31527	.57279
#1	69.289	741.72	1095.9	12.070	520.67	272.91	298.13	293.09
#2	69.711	737.72	1094.3	12.091	518.15	272.96	297.74	289.76
#3	69.641	736.58	1104.4	12.057	522.37	274.47	299.53	291.39

Elem	Sn1899	Sr4215	Ti3349	Tl1908	V_2924	Zn2062
Units	ppb	ppb	ppb	ppb	ppb	ppb
Avg	**1096.3**	**1355.**	**1097.9**	**255.63**	**525.13**	**530.08**
Stddev	3.6	7.	8.2	1.86	2.96	1.63
%RSD	.32523	.4915	.74403	.72687	.56347	.30712
#1	1095.8	1349.	1089.8	255.02	528.47	530.02
#2	1092.9	1354.	1097.8	254.15	524.07	528.48
#3	1100.0	1362.	1106.2	257.71	522.84	531.73

Sample Name: 1K08018-PS1 Acquired: 11/11/2011 21:04:33 Type: Unk
Method: DuoEnviroMethodNEW(v2461) Mode: CONC Corr. Factor: 1.000000
User: rburr Custom ID1: Custom ID2: Custom ID3:
Comment: TETRA /4X

Int. Std.	Sc1880	Sc3613	Sc3613-2
Units	Cts/S	Cts/S	Cts/S
Avg	2507.9	764720.	47431.
Stddev	8.5	3860.	168.
%RSD	.33714	.50480	.35513
#1	2509.2	762450.	47612.
#2	2515.5	762530.	47279.
#3	2498.8	769170.	47400.

Sample Name: 1K08018-DUP1@5X Acquired: 11/11/2011 21:10:00 Type: Unk
Method: DuoEnviroMethodNEW(v2461) Mode: CONC Corr. Factor: 1.000000
User: rburr Custom ID1: Custom ID2: Custom ID3:
Comment: TETRA /4X X5 SRL

Elem	Ag3280	Al3961	As1890	As1972	B_2496	Ba2335	Be3130	Ca3179
Units	ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppm
Avg	**-.42101**	**108.25**	**1.1968**	**2.8119**	**14.798**	**6.6016**	**.02360**	**36.324**
Stddev	.10598	3.03	.7914	.8774	.244	.1794	.02583	.110
%RSD	25.172	2.7978	66.121	31.205	1.6505	2.7168	109.45	.30191
#1	-.46482	108.20	1.0790	2.5073	14.840	6.3946	.04000	36.271
#2	-.49806	105.24	2.0405	3.8010	15.019	6.7007	.03696	36.450
#3	-.30015	111.30	.47098	2.1273	14.536	6.7096	-.00617	36.250

Elem	Cd2144	Cd2288	Co2286	Cr2677	Cu2199	Cu3247	Fe2611	K_7664
Units	ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppm
Avg	**.03966**	**.11864**	**.17020**	**.67480**	**-.2131**	**-.32639**	**2118.7**	**.31769**
Stddev	.01594	.05592	.19326	.05744	.2840	.25463	4.3	.02085
%RSD	40.203	47.133	113.55	8.5119	133.3	78.015	.20072	6.5644
#1	.02183	.05919	-.05192	.69994	.0067	-.03396	2122.6	.33393
#2	.04459	.17019	.29993	.71539	-.5338	-.49907	2114.1	.29417
#3	.05255	.12654	.26258	.60908	-.1121	-.44614	2119.3	.32496

Elem	Mg2790	Mn2576	Mo2020	Na5895	Ni2316	Pb2203	Sb2068	Se1960
Units	ppm	ppb	ppb	ppm	ppb	ppb	ppb	ppb
Avg	**13.301**	**46.480**	**4.5420**	**1.4565**	**.67969**	**.44112**	**-1.5690**	**.61207**
Stddev	.027	.742	.1666	.0127	.09655	.40560	.8506	.44467
%RSD	.19987	1.5967	3.6672	.87309	14.205	91.948	54.212	72.650
#1	13.270	47.328	4.6965	1.4562	.62334	.64560	-2.1038	.23701
#2	13.314	46.161	4.5640	1.4439	.62455	-.02602	-.58816	.49590
#3	13.318	45.950	4.3655	1.4694	.79117	.70379	-2.0151	1.1033

Elem	Sn1899	Sr4215	Ti3349	Tl1908	V_2924	Zn2062
Units	ppb	ppb	ppb	ppb	ppb	ppb
Avg	**.60735**	**58.87**	**2.0288**	**-.15886**	**1.7663**	**.94744**
Stddev	.23783	.22	.3396	.06932	.0090	.10261
%RSD	39.158	.3792	16.737	43.633	.50896	10.830
#1	.69523	58.61	2.2403	-.08508	1.7619	.82930
#2	.33809	58.98	2.2091	-.22262	1.7767	.99868
#3	.78873	59.02	1.6372	-.16888	1.7604	1.0143

Sample Name: 1K08018-DUP1@5X Acquired: 11/11/2011 21:10:00 Type: Unk
Method: DuoEnviroMethodNEW(v2461) Mode: CONC Corr. Factor: 1.000000
User: rburr Custom ID1: Custom ID2: Custom ID3:
Comment: TETRA /4X X5 SRL

Int. Std.	Sc1880	Sc3613	Sc3613-2
Units	Cts/S	Cts/S	Cts/S
Avg	2772.8	821600.	49587.
Stddev	13.1	9452.	223.
%RSD	.47356	1.1504	.45039
#1	2781.5	810910.	49665.
#2	2779.3	825060.	49335.
#3	2757.7	828840.	49760.

Sample Name: 1110003-29 Acquired: 11/11/2011 21:14:34 Type: Unk
Method: DuoEnviroMethodNEW(v2461) Mode: CONC Corr. Factor: 1.000000
User: rburr Custom ID1: Custom ID2: Custom ID3:
Comment: TETRA /4X

Elem	Ag3280	Al3961	As1890	As1972	B_2496	Ba2335	Be3130	Ca3179
Units	ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppm
Avg	**-.61938**	**313.22**	**7.4792**	**8.9185**	**74.519**	**31.873**	**.16701**	**174.07**
Stddev	.09226	9.31	.5199	1.3604	.575	.180	.03813	1.33
%RSD	14.895	2.9729	6.9516	15.253	.77100	.56534	22.828	.76334
#1	-.51589	319.09	8.0613	9.2949	74.511	31.891	.19797	173.73
#2	-.69303	302.49	7.3157	7.4096	75.097	31.685	.17863	175.53
#3	-.64922	318.09	7.0607	10.051	73.949	32.044	.12443	172.94

Elem	Cd2144	Cd2288	Co2286	Cr2677	Cu2199	Cu3247	Fe2611	K_7664
Units	ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppm
Avg	**.05247**	**.31798**	**-.03268**	**2.6470**	**-.9834**	**.09214**	**10933.**	**1.3614**
Stddev	.02231	.06108	.04809	.0524	.5569	.03997	9.	.0197
%RSD	42.510	19.210	147.16	1.9790	56.63	43.382	.08668	1.4469
#1	.05169	.37315	.02028	2.6053	-1.396	.05053	10933.	1.3832
#2	.03057	.25234	-.04470	2.6300	-.3500	.13024	10923.	1.3563
#3	.07516	.32844	-.07361	2.7058	-1.204	.09567	10942.	1.3448

Elem	Mg2790	Mn2576	Mo2020	Na5895	Ni2316	Pb2203	Sb2068	Se1960
Units	ppm	ppb	ppb	ppm	ppb	ppb	ppb	ppb
Avg	**66.069**	**231.21**	**7.9965**	**7.4846**	**2.4128**	**.31129**	**-.45543**	**1.4270**
Stddev	.119	.47	.0251	.0119	.1344	.50775	.07632	.7833
%RSD	.18039	.20180	.31414	.15848	5.5690	163.12	16.758	54.896
#1	66.042	230.72	7.9677	7.4719	2.5521	.46538	-.37008	.75148
#2	65.966	231.29	8.0078	7.4866	2.2840	.72414	-.47910	2.2857
#3	66.199	231.64	8.0140	7.4953	2.4022	-.25566	-.51711	1.2438

Elem	Sn1899	Sr4215	Ti3349	Tl1908	V_2924	Zn2062
Units	ppb	ppb	ppb	ppb	ppb	ppb
Avg	**.14958**	**289.7**	**4.9920**	**-.41857**	**7.7402**	**1.5600**
Stddev	.18574	1.1	.2174	.16868	.1036	.0774
%RSD	124.17	.3771	4.3556	40.299	1.3380	4.9587
#1	.14777	291.0	4.9889	-.23302	7.8478	1.5967
#2	-.03525	289.4	5.2109	-.46005	7.6412	1.4711
#3	.33621	288.8	4.7761	-.56265	7.7317	1.6121

Sample Name: 1110003-29 Acquired: 11/11/2011 21:14:34 Type: Unk
Method: DuoEnviroMethodNEW(v2461) Mode: CONC Corr. Factor: 1.000000
User: rburr Custom ID1: Custom ID2: Custom ID3:
Comment: TETRA /4X

Int. Std.	Sc1880	Sc3613	Sc3613-2
Units	Cts/S	Cts/S	Cts/S
Avg	2510.0	772260.	48126.
Stddev	8.5	917.	51.
%RSD	.33763	.11873	.10672
#1	2510.1	772750.	48166.
#2	2518.4	772820.	48144.
#3	2501.5	771200.	48068.

Sample Name: 1K08018-DUP4 Acquired: 11/11/2011 21:19:14 Type: Unk
Method: DuoEnviroMethodNEW(v2461) Mode: CONC Corr. Factor: 1.000000
User: rburr Custom ID1: Custom ID2: Custom ID3:
Comment: TETRA /4X DUP.

Elem	Ag3280	Al3961	As1890	As1972	B_2496	Ba2335	Be3130	Ca3179
Units	ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppm
Avg	**-.51797**	**306.25**	**7.7978**	**7.6677**	**81.829**	**34.451**	**.14032**	**192.56**
Stddev	.12205	6.24	1.2100	1.1016	3.031	.070	.02829	1.47
%RSD	23.563	2.0380	15.517	14.366	3.7041	.20431	20.165	.76248
#1	-.63815	300.97	8.9427	6.6889	83.193	34.494	.13286	193.10
#2	-.52163	313.14	7.9188	8.8606	78.356	34.370	.11650	193.69
#3	-.39414	304.64	6.5319	7.4535	83.938	34.488	.17159	190.90

Elem	Cd2144	Cd2288	Co2286	Cr2677	Cu2199	Cu3247	Fe2611	K_7664
Units	ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppm
Avg	**.05933**	**.32095**	**.11085**	**2.9254**	**-.7179**	**.10507**	**11925.**	**1.5159**
Stddev	.01395	.19942	.06796	.1349	.8754	.30455	20.	.0170
%RSD	23.511	62.135	61.306	4.6112	121.9	289.84	.16785	1.1183
#1	.04390	.35183	.03863	3.0468	-.3135	.29228	11948.	1.5335
#2	.06305	.10789	.12037	2.7802	-.1179	-.24634	11911.	1.4996
#3	.07104	.50312	.17354	2.9493	-1.722	.26928	11916.	1.5147

Elem	Mg2790	Mn2576	Mo2020	Na5895	Ni2316	Pb2203	Sb2068	Se1960
Units	ppm	ppb	ppb	ppm	ppb	ppb	ppb	ppb
Avg	**71.412**	**250.20**	**7.7768**	**7.9454**	**2.8945**	**-.08264**	**-.64146**	**2.2218**
Stddev	.345	6.85	.0845	.0139	.1629	.59979	.35739	1.2340
%RSD	.48341	2.7374	1.0861	.17532	5.6282	725.76	55.715	55.540
#1	71.798	253.85	7.7633	7.9577	2.7645	-.70517	-.49968	1.7692
#2	71.305	242.30	7.8672	7.9483	3.0772	.49149	-.37671	1.2780
#3	71.133	254.45	7.6998	7.9303	2.8416	-.03425	-1.0480	3.6181

Elem	Sn1899	Sr4215	Ti3349	Tl1908	V_2924	Zn2062
Units	ppb	ppb	ppb	ppb	ppb	ppb
Avg	**.09502**	**316.7**	**5.0488**	**-.87300**	**8.1804**	**1.4484**
Stddev	.22575	1.8	.2285	.29966	.3651	.0086
%RSD	237.58	.5575	4.5252	34.325	4.4632	.59681
#1	.13214	318.8	4.8032	-.96000	8.3943	1.4561
#2	-.14699	315.6	5.0880	-.53946	7.7588	1.4390
#3	.29992	315.8	5.2550	-1.1195	8.3881	1.4501

Sample Name: 1K08018-DUP4 Acquired: 11/11/2011 21:19:14 Type: Unk
Method: DuoEnviroMethodNEW(v2461) Mode: CONC Corr. Factor: 1.000000
User: rburr Custom ID1: Custom ID2: Custom ID3:
Comment: TETRA /4X DUP.

Int. Std.	Sc1880	Sc3613	Sc3613-2
Units	Cts/S	Cts/S	Cts/S
Avg	2487.8	769250.	47407.
Stddev	6.8	20170.	249.
%RSD	.27361	2.6220	.52552
#1	2486.4	758910.	47120.
#2	2495.1	792500.	47566.
#3	2481.7	756360.	47535.

Sample Name: 1K08018-MS2 Acquired: 11/11/2011 21:23:54 Type: Unk
Method: DuoEnviroMethodNEW(v2461) Mode: CONC Corr. Factor: 1.000000
User: rburr Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Ag3280	Al3961	As1890	As1972	B_2496	Ba2335	Be3130	Ca3179
Units	ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppm
Avg	**209.11**	**2183.0**	**527.82**	**567.66**	**996.80**	**2029.0**	**47.686**	**173.87**
Stddev	2.52	4.0	4.50	3.21	10.41	10.7	.159	.76
%RSD	1.2045	.18263	.85212	.56548	1.0443	.52572	.33273	.43630
#1	207.03	2180.0	526.35	567.69	990.94	2025.2	47.869	173.65
#2	208.40	2187.5	524.25	564.43	990.65	2020.7	47.588	174.71
#3	211.91	2181.6	532.87	570.85	1008.8	2041.0	47.600	173.24

Elem	Cd2144	Cd2288	Co2286	Cr2677	Cu2199	Cu3247	Fe2611	K_7664
Units	ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppm
Avg	**254.43**	**270.31**	**516.68**	**186.46**	**235.7**	**264.46**	**11763.**	**6.0650**
Stddev	1.26	1.28	2.22	1.43	2.5	2.25	41.	.0090
%RSD	.49491	.47305	.43047	.76866	1.074	.85269	.34465	.14867
#1	254.10	269.92	515.77	185.63	233.6	262.68	11803.	6.0670
#2	253.37	269.28	515.06	185.65	235.0	263.69	11722.	6.0552
#3	255.82	271.74	519.22	188.12	238.5	266.99	11764.	6.0729

Elem	Mg2790	Mn2576	Mo2020	Na5895	Ni2316	Pb2203	Sb2068	Se1960
Units	ppm	ppb	ppb	ppm	ppb	ppb	ppb	ppb
Avg	**67.417**	**681.55**	**1010.5**	**11.894**	**488.09**	**505.66**	**545.02**	**196.22**
Stddev	.357	5.66	6.8	.031	2.36	3.71	2.63	.67
%RSD	.52999	.83082	.67071	.25788	.48345	.73344	.48272	.34260
#1	67.830	678.59	1006.7	11.918	487.36	504.79	543.74	195.90
#2	67.226	677.98	1006.4	11.860	486.18	502.47	543.28	195.76
#3	67.196	688.08	1018.3	11.904	490.73	509.73	548.05	196.99

Elem	Sn1899	Sr4215	Ti3349	Tl1908	V_2924	Zn2062
Units	ppb	ppb	ppb	ppb	ppb	ppb
Avg	**998.23**	**1263.**	**959.52**	**470.20**	**472.28**	**498.07**
Stddev	4.81	1.	2.79	3.09	4.32	3.19
%RSD	.48169	.0872	.29118	.65792	.91522	.64007
#1	995.75	1263.	959.46	468.27	469.41	496.57
#2	995.17	1264.	962.35	468.57	470.16	495.92
#3	1003.8	1262.	956.76	473.77	477.25	501.74

Sample Name: 1K08018-MS2 Acquired: 11/11/2011 21:23:54 Type: Unk
Method: DuoEnviroMethodNEW(v2461) Mode: CONC Corr. Factor: 1.000000
User: rburr Custom ID1: Custom ID2: Custom ID3:
Comment:

Int. Std.	Sc1880	Sc3613	Sc3613-2
Units	Cts/S	Cts/S	Cts/S
Avg	2525.4	782850.	48535.
Stddev	11.4	7297.	163.
%RSD	.45185	.93206	.33488
#1	2531.6	787050.	48349.
#2	2532.4	787070.	48603.
#3	2512.3	774420.	48652.

Sample Name: 1K08018-PS2 Acquired: 11/11/2011 21:28:21 Type: Unk
Method: DuoEnviroMethodNEW(v2461) Mode: CONC Corr. Factor: 1.000000
User: rburr Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Ag3280	Al3961	As1890	As1972	B_2496	Ba2335	Be3130	Ca3179
Units	ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppm
Avg	**253.45**	**2361.5**	**289.46**	**316.21**	**1112.4**	**2180.2**	**52.155**	**183.51**
Stddev	2.66	8.3	1.25	2.77	12.5	11.9	.044	1.29
%RSD	1.0513	.34973	.43220	.87570	1.1277	.54355	.08508	.70195
#1	250.38	2352.3	288.59	315.03	1097.9	2171.6	52.200	183.24
#2	255.22	2368.1	288.90	314.23	1119.5	2175.3	52.111	184.91
#3	254.73	2364.2	290.89	319.38	1119.7	2193.8	52.156	182.38

Elem	Cd2144	Cd2288	Co2286	Cr2677	Cu2199	Cu3247	Fe2611	K_7664
Units	ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppm
Avg	**138.19**	**147.56**	**555.42**	**206.24**	**253.1**	**281.65**	**11984.**	**6.4489**
Stddev	.65	1.26	2.37	2.05	2.5	2.68	17.	.0098
%RSD	.47187	.85505	.42672	.99246	.9680	.94994	.14094	.15115
#1	137.71	146.72	554.02	203.91	250.3	278.56	12000.	6.4597
#2	137.92	146.96	554.09	207.76	254.9	283.21	11985.	6.4461
#3	138.93	149.01	558.16	207.04	254.1	283.18	11967.	6.4408

Elem	Mg2790	Mn2576	Mo2020	Na5895	Ni2316	Pb2203	Sb2068	Se1960
Units	ppm	ppb	ppb	ppm	ppb	ppb	ppb	ppb
Avg	**70.609**	**734.73**	**1107.4**	**12.405**	**524.47**	**275.32**	**300.64**	**290.99**
Stddev	.145	7.15	9.4	.007	3.43	1.53	3.94	1.48
%RSD	.20582	.97287	.84620	.05344	.65446	.55534	1.3094	.50863
#1	70.771	726.63	1100.5	12.412	521.96	274.43	298.90	291.12
#2	70.566	740.14	1103.6	12.399	523.07	274.44	297.87	289.45
#3	70.490	737.42	1118.1	12.404	528.38	277.08	305.14	292.40

Elem	Sn1899	Sr4215	Ti3349	Tl1908	V_2924	Zn2062
Units	ppb	ppb	ppb	ppb	ppb	ppb
Avg	**1113.8**	**1363.**	**1100.8**	**255.23**	**521.34**	**534.86**
Stddev	6.3	6.	6.7	2.47	5.05	2.64
%RSD	.56383	.4242	.61165	.96818	.96823	.49423
#1	1109.1	1361.	1098.8	253.07	515.75	533.20
#2	1111.4	1369.	1108.3	254.71	525.58	533.46
#3	1121.0	1358.	1095.3	257.92	522.69	537.91

Sample Name: 1K08018-PS2 Acquired: 11/11/2011 21:28:21 Type: Unk
Method: DuoEnviroMethodNEW(v2461) Mode: CONC Corr. Factor: 1.000000
User: rburr Custom ID1: Custom ID2: Custom ID3:
Comment:

Int. Std.	Sc1880	Sc3613	Sc3613-2
Units	Cts/S	Cts/S	Cts/S
Avg	2492.3	770600.	47623.
Stddev	10.3	7860.	224.
%RSD	.41284	1.0200	.47054
#1	2501.0	779460.	47649.
#2	2494.9	764480.	47387.
#3	2481.0	767850.	47833.

Sample Name: 1K08018-DUP3@5X Acquired: 11/11/2011 21:33:50 Type: Unk
Method: DuoEnviroMethodNEW(v2461) Mode: CONC Corr. Factor: 1.000000
User: rburr Custom ID1: Custom ID2: Custom ID3:
Comment: TETRA /4X X5 SRL

Elem	Ag3280	Al3961	As1890	As1972	B_2496	Ba2335	Be3130	Ca3179
Units	ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppm
Avg	**-.36388**	**80.553**	**1.9226**	**1.7716**	**15.614**	**6.4856**	**.01365**	**37.414**
Stddev	.06836	3.305	.5207	.4197	.435	.0659	.04135	.029
%RSD	18.785	4.1027	27.085	23.689	2.7890	1.0165	302.90	.07822
#1	-.28587	82.976	1.3228	2.2562	16.109	6.4095	-.01305	37.439
#2	-.39243	76.788	2.1862	1.5292	15.439	6.5241	.06128	37.422
#3	-.41333	81.895	2.2588	1.5294	15.293	6.5233	-.00728	37.382

Elem	Cd2144	Cd2288	Co2286	Cr2677	Cu2199	Cu3247	Fe2611	K_7664
Units	ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppm
Avg	**.00920**	**-.00313**	**-.00980**	**.52286**	**.0449**	**-.39710**	**2264.3**	**.31093**
Stddev	.01139	.03474	.16717	.10898	.9506	.11510	8.2	.01423
%RSD	123.90	1110.8	1705.8	20.842	2117.	28.986	.36323	4.5756
#1	.00385	-.04320	-.18848	.40215	1.042	-.52503	2256.6	.30209
#2	.02228	.01542	.01630	.61399	-.0572	-.30192	2272.9	.30335
#3	.00146	.01840	.14279	.55245	-.8505	-.36436	2263.3	.32734

Elem	Mg2790	Mn2576	Mo2020	Na5895	Ni2316	Pb2203	Sb2068	Se1960
Units	ppm	ppb	ppb	ppm	ppb	ppb	ppb	ppb
Avg	**13.593**	**48.282**	**3.9428**	**1.5082**	**.58986**	**.28476**	**-.21904**	**-.14720**
Stddev	.030	.717	.3508	.0021	.10869	.62945	.46457	.98498
%RSD	.21965	1.4845	8.8965	.13937	18.426	221.05	212.09	669.16
#1	13.559	48.849	4.2418	1.5069	.50360	-.42647	-.65031	-1.2695
#2	13.617	47.476	4.0299	1.5106	.55404	.51070	.27288	.25401
#3	13.602	48.520	3.5567	1.5070	.71194	.77004	-.27970	.57387

Elem	Sn1899	Sr4215	Ti3349	Tl1908	V_2924	Zn2062
Units	ppb	ppb	ppb	ppb	ppb	ppb
Avg	**.20728**	**60.76**	**1.9866**	**-1.0684**	**1.4792**	**.45159**
Stddev	.11401	.10	.0409	.6548	.1191	.04283
%RSD	55.005	.1639	2.0575	61.290	8.0539	9.4838
#1	.27491	60.87	1.9394	-1.3603	1.4495	.50096
#2	.27127	60.72	2.0115	-1.5264	1.3778	.42447
#3	.07564	60.68	2.0089	-.31837	1.6104	.42934

Sample Name: 1K08018-DUP3@5X Acquired: 11/11/2011 21:33:50 Type: Unk
Method: DuoEnviroMethodNEW(v2461) Mode: CONC Corr. Factor: 1.000000
User: rburr Custom ID1: Custom ID2: Custom ID3:
Comment: TETRA /4X X5 SRL

Int. Std.	Sc1880	Sc3613	Sc3613-2
Units	Cts/S	Cts/S	Cts/S
Avg	2770.3	810010.	49316.
Stddev	8.8	11014.	95.
%RSD	.31786	1.3598	.19322
#1	2775.0	804450.	49389.
#2	2775.6	822690.	49208.
#3	2760.1	802870.	49351.

Sample Name: 1110003-30@5X Acquired: 11/11/2011 21:38:24 Type: Unk
Method: DuoEnviroMethodNEW(v2461) Mode: CONC Corr. Factor: 1.000000
User: rburr Custom ID1: Custom ID2: Custom ID3:
Comment: TETRA /4X

Elem	Ag3280	Al3961	As1890	As1972	B_2496	Ba2335	Be3130	Ca3179
Units	ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppm
Avg	**-.39286**	**3684.1**	**2.5083**	**2.4992**	**38.844**	**13.104**	**.08229**	**33.322**
Stddev	.12728	12.3	.7229	.1232	.634	.048	.01588	.018
%RSD	32.399	.33301	28.821	4.9303	1.6324	.36844	19.295	.05481
#1	-.48816	3694.0	2.8869	2.3569	38.424	13.070	.06543	33.343
#2	-.44211	3687.9	2.9633	2.5702	38.536	13.082	.08446	33.314
#3	-.24831	3670.4	1.6747	2.5705	39.574	13.159	.09696	33.309

Elem	Cd2144	Cd2288	Co2286	Cr2677	Cu2199	Cu3247	Fe2611	K_7664
Units	ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppm
Avg	**.03431**	**.10223**	**.44797**	**3.5043**	**2.017**	**1.2714**	**1250.6**	**1.1817**
Stddev	.03880	.04206	.07128	.0532	.254	.0813	3.2	.0155
%RSD	113.10	41.145	15.911	1.5182	12.61	6.3969	.25597	1.3153
#1	.02305	.05552	.53016	3.5658	1.972	1.1938	1247.3	1.1973
#2	.07749	.13711	.41066	3.4740	1.788	1.3560	1250.8	1.1815
#3	.00238	.11407	.40308	3.4733	2.290	1.2643	1253.7	1.1662

Elem	Mg2790	Mn2576	Mo2020	Na5895	Ni2316	Pb2203	Sb2068	Se1960
Units	ppm	ppb	ppb	ppm	ppb	ppb	ppb	ppb
Avg	**10.801**	**124.27**	**1.8753**	**6.7696**	**1.8811**	**1.4445**	**-.48193**	**-.03750**
Stddev	.054	1.33	.0310	.0220	.1095	.2830	.28017	.45098
%RSD	.50364	1.0740	1.6530	.32430	5.8181	19.592	58.136	1202.5
#1	10.743	123.39	1.9084	6.7444	1.9459	1.6401	-.35972	-.45372
#2	10.808	123.61	1.8708	6.7802	1.9427	1.5734	-.28362	.44163
#3	10.851	125.81	1.8468	6.7843	1.7548	1.1200	-.80245	-.10041

Elem	Sn1899	Sr4215	Ti3349	Tl1908	V_2924	Zn2062
Units	ppb	ppb	ppb	ppb	ppb	ppb
Avg	**.76765**	**214.1**	**11.703**	**.23609**	**4.1155**	**3.1635**
Stddev	.12658	.5	.154	.24104	.1607	.1315
%RSD	16.489	.2135	1.3133	102.10	3.9049	4.1579
#1	.84531	214.5	11.565	-.04142	4.0287	3.0457
#2	.83605	214.1	11.676	.35636	4.0169	3.1395
#3	.62158	213.6	11.868	.39334	4.3010	3.3054

Sample Name: 1110003-30@5X Acquired: 11/11/2011 21:38:24 Type: Unk
Method: DuoEnviroMethodNEW(v2461) Mode: CONC Corr. Factor: 1.000000
User: rburr Custom ID1: Custom ID2: Custom ID3:
Comment: TETRA /4X

Int. Std.	Sc1880	Sc3613	Sc3613-2
Units	Cts/S	Cts/S	Cts/S
Avg	2760.5	810060.	49336.
Stddev	12.3	9049.	54.
%RSD	.44614	1.1171	.11004
#1	2760.1	816170.	49282.
#2	2773.0	814340.	49391.
#3	2748.4	799660.	49336.

Sample Name: 1110003-31@2X Acquired: 11/11/2011 21:42:57 Type: Unk
Method: DuoEnviroMethodNEW(v2461) Mode: CONC Corr. Factor: 1.000000
User: rburr Custom ID1: Custom ID2: Custom ID3:
Comment: TETRA /4X

Elem	Ag3280	Al3961	As1890	As1972	B_2496	Ba2335	Be3130	Ca3179
Units	ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppm
Avg	**-.41540**	**934.12**	**4.2851**	**4.0372**	**93.983**	**23.574**	**-.00262**	**72.671**
Stddev	.10616	9.62	.9628	1.5975	.043	.108	.02008	.238
%RSD	25.557	1.0303	22.469	39.569	.04592	.45877	765.07	.32724
#1	-.33114	932.74	5.0394	2.2540	93.939	23.673	.01811	72.946
#2	-.38041	925.26	3.2006	4.5199	93.986	23.459	-.00400	72.534
#3	-.53464	944.36	4.6151	5.3376	94.025	23.590	-.02198	72.534

Elem	Cd2144	Cd2288	Co2286	Cr2677	Cu2199	Cu3247	Fe2611	K_7664
Units	ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppm
Avg	**.05118**	**.28441**	**.93430**	**3.8353**	**.2372**	**.40236**	**2169.7**	**2.7239**
Stddev	.02934	.02744	.24728	.0398	.5557	.13712	5.8	.0023
%RSD	57.324	9.6472	26.467	1.0365	234.2	34.080	.26711	.08563
#1	.01805	.25559	.72758	3.8168	-.2843	.40214	2170.6	2.7240
#2	.06164	.28744	.86710	3.8082	.8217	.53959	2163.5	2.7262
#3	.07386	.31021	1.2082	3.8809	.1744	.26535	2175.0	2.7215

Elem	Mg2790	Mn2576	Mo2020	Na5895	Ni2316	Pb2203	Sb2068	Se1960
Units	ppm	ppb	ppb	ppm	ppb	ppb	ppb	ppb
Avg	**24.599**	**272.59**	**3.0317**	**14.726**	**3.4901**	**-.30565**	**-1.1823**	**1.1683**
Stddev	.058	.41	.1265	.026	.1769	.54402	.8888	.5943
%RSD	.23710	.15101	4.1725	.17512	5.0684	177.99	75.174	50.868
#1	24.666	272.12	2.9438	14.717	3.3679	.09383	-.16466	.72651
#2	24.571	272.80	2.9747	14.706	3.4095	-.08554	-1.8062	1.8439
#3	24.560	272.86	3.1767	14.755	3.6930	-.92523	-1.5761	.93439

Elem	Sn1899	Sr4215	Ti3349	Tl1908	V_2924	Zn2062
Units	ppb	ppb	ppb	ppb	ppb	ppb
Avg	**.77212**	**459.8**	**5.7437**	**.38840**	**5.0738**	**5.0410**
Stddev	.07643	.5	.3578	.40857	.2423	.0030
%RSD	9.8992	.1194	6.2289	105.19	4.7757	.06026
#1	.75566	460.4	6.1105	.84246	5.3076	5.0376
#2	.70525	459.6	5.3957	.05046	5.0899	5.0435
#3	.85544	459.3	5.7248	.27228	4.8238	5.0419

Sample Name: 1110003-31@2X Acquired: 11/11/2011 21:42:57 Type: Unk
Method: DuoEnviroMethodNEW(v2461) Mode: CONC Corr. Factor: 1.000000
User: rburr Custom ID1: Custom ID2: Custom ID3:
Comment: TETRA /4X

Int. Std.	Sc1880	Sc3613	Sc3613-2
Units	Cts/S	Cts/S	Cts/S
Avg	2680.7	807580.	48900.
Stddev	9.0	1894.	247.
%RSD	.33545	.23447	.50598
#1	2682.6	809300.	48670.
#2	2688.6	805550.	48869.
#3	2670.9	807880.	49162.

Sample Name: SEQ-CCV Acquired: 11/11/2011 21:48:29 Type: QC
Method: DuoEnviroMethodNEW(v2461) Mode: CONC Corr. Factor: 1.000000
User: rburr Custom ID1: Custom ID2: Custom ID3:
Comment: 11K0392

Elem	Ag3280	Al3961	As1890	As1972	B_2496	Ba2335	Be3130
Units	ppb	ppb	ppb	ppb	ppb	ppb	ppb
Avg	**473.72**	**9682.3**	**1042.1**	F **1116.7**	**974.43**	**1013.5**	**956.21**
Stddev	1.37	7.2	7.6	3.8	4.84	6.4	.82
%RSD	.28937	.07440	.73373	.34460	.49664	.63388	.08524
#1	473.82	9682.1	1036.0	1116.1	976.16	1009.5	955.83
#2	472.30	9689.6	1039.6	1113.2	968.96	1010.1	957.14
#3	475.04	9675.2	1050.7	1120.9	978.16	1020.9	955.65
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Fail	Chk Pass	Chk Pass	Chk Pass
Value				1000.0			
Range				±100.00			

Elem	Ca3179	Cd2144	Cd2288	Co2286	Cr2677	Cu2199	Cu3247
Units	ppm	ppb	ppb	ppb	ppb	ppb	ppb
Avg	**48.542**	**1044.6**	**1062.3**	**1065.3**	**990.44**	**968.3**	**1079.5**
Stddev	.135	6.2	5.9	5.3	3.87	2.0	3.3
%RSD	.27746	.59138	.55749	.49583	.39065	.2090	.30643
#1	48.669	1041.0	1058.8	1061.6	993.17	969.1	1081.8
#2	48.557	1041.0	1059.0	1063.0	986.02	966.0	1075.7
#3	48.401	1051.7	1069.2	1071.3	992.14	969.8	1081.1
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value							
Range							

Elem	Fe2611	K_7664	Mg2790	Mn2576	Mo2020	Na5895	Ni2316
Units	ppb	ppm	ppm	ppb	ppb	ppm	ppb
Avg	**9551.8**	**9.6005**	F **37.862**	**965.02**	**1037.5**	**47.666**	**1006.7**
Stddev	20.2	.0227	.140	4.03	7.1	.148	5.5
%RSD	.21179	.23680	.37045	.41775	.68247	.31009	.54391
#1	9530.1	9.6258	37.906	968.16	1032.8	47.544	1003.2
#2	9555.2	9.5818	37.705	960.48	1034.0	47.625	1003.9
#3	9570.2	9.5938	37.975	966.43	1045.6	47.831	1013.0
Check ?	Chk Pass	Chk Pass	Chk Fail	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value			50.000				
Range			±-5.0000				

Sample Name: SEQ-CCV Acquired: 11/11/2011 21:48:29 Type: QC
Method: DuoEnviroMethodNEW(v2461) Mode: CONC Corr. Factor: 1.000000
User: rburr Custom ID1: Custom ID2: Custom ID3:
Comment: 11K0392

Elem	Pb2203	Sb2068	Se1960	Sn1899	Sr4215	Ti3349	Tl1908
Units	ppb	ppb	ppb	ppb	ppb	ppb	ppb
Avg	**1030.4**	F **1125.9**	**1075.0**	**1035.3**	**1019.**	**1013.6**	**993.45**
Stddev	6.3	7.9	5.8	6.5	5.	5.4	4.30
%RSD	.61338	.70151	.53997	.62811	.4713	.53690	.43319
#1	1026.8	1120.0	1071.5	1030.8	1021.	1017.4	991.39
#2	1026.7	1122.8	1071.8	1032.3	1021.	1016.1	990.57
#3	1037.7	1134.9	1081.7	1042.7	1013.	1007.4	998.40
Check ?	Chk Pass	Chk Fail	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value		1000.0					
Range		±100.00					

Elem	V_2924	Zn2062
Units	ppb	ppb
Avg	**983.78**	**1034.9**
Stddev	4.06	6.4
%RSD	.41258	.61876
#1	985.00	1030.7
#2	979.26	1031.7
#3	987.10	1042.2
Check ?	Chk Pass	Chk Pass
Value		
Range		

Int. Std.	Sc1880	Sc3613	Sc3613-2
Units	Cts/S	Cts/S	Cts/S
Avg	2600.3	777120.	47333.
Stddev	10.4	2434.	331.
%RSD	.40062	.31317	.69950
#1	2605.1	774780.	47128.
#2	2607.4	779640.	47715.
#3	2588.3	776960.	47156.

Sample Name: SEQ-CCB Acquired: 11/11/2011 21:55:45 Type: QC
Method: DuoEnviroMethodNEW(v2461) Mode: CONC Corr. Factor: 1.000000
User: rburr Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Ag3280	Al3961	As1890	As1972	B_2496	Ba2335	Be3130	Ca3179
Units	ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppm
Avg	**-.18468**	**8.3052**	**-.07946**	**.77733**	**.16685**	**.26567**	**.20336**	**.01497**
Stddev	.19162	8.4060	.57944	1.8779	.12492	.02933	.01494	.00063
%RSD	103.75	101.21	729.23	241.58	74.873	11.039	7.3474	4.1921
#1	-.36951	16.955	.55837	-.96660	.07719	.27739	.19293	.01438
#2	.01308	.16685	-.22334	2.7654	.30954	.28733	.19667	.01563
#3	-.19762	7.7933	-.57341	.53324	.11381	.23230	.22047	.01489
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit								
Low Limit								

Elem	Cd2144	Cd2288	Co2286	Cr2677	Cu2199	Cu3247	Fe2611	K_7664
Units	ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppm
Avg	**.32169**	**.18114**	**.24082**	**.20708**	**.1707**	**-.28514**	**1.7741**	**.01185**
Stddev	.02686	.05301	.01327	.05630	.0448	.25884	1.3780	.00932
%RSD	8.3509	29.263	5.5095	27.189	26.24	90.777	77.670	78.625
#1	.34742	.15247	.24025	.21730	.1638	-.06427	2.9120	.01395
#2	.29382	.24231	.25436	.14637	.2184	-.56997	2.1685	.00166
#3	.32383	.14864	.22784	.25757	.1297	-.22119	.24198	.01995
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit								
Low Limit								

Elem	Mg2790	Mn2576	Mo2020	Na5895	Ni2316	Pb2203	Sb2068	Se1960
Units	ppm	ppb	ppb	ppm	ppb	ppb	ppb	ppb
Avg	**.00423**	**.19093**	**1.0799**	**.03270**	**.33217**	**.63288**	**-1.1736**	**.97132**
Stddev	.00334	.03213	.1246	.00738	.12024	.96034	.6837	1.0587
%RSD	78.955	16.826	11.540	22.565	36.198	151.74	58.259	109.00
#1	.00296	.22470	1.1518	.04100	.44473	1.1826	-.56343	-.24725
#2	.00171	.16075	1.1518	.03022	.34629	1.1921	-1.0448	1.4961
#3	.00802	.18734	.93596	.02688	.20550	-.47601	-1.9126	1.6652
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit								
Low Limit								

Sample Name: SEQ-CCB Acquired: 11/11/2011 21:55:45 Type: QC
Method: DuoEnviroMethodNEW(v2461) Mode: CONC Corr. Factor: 1.000000
User: rburr Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Sn1899	Sr4215	Ti3349	Tl1908	V_2924	Zn2062
Units	ppb	ppb	ppb	ppb	ppb	ppb
Avg	**.36001**	**.3048**	**-.16786**	**-.17351**	**.37880**	**.24902**
Stddev	.17966	.0254	.07477	.50974	.12052	.06553
%RSD	49.904	8.337	44.545	293.78	31.818	26.317
#1	.47675	.2984	-.13630	-.01073	.23981	.18236
#2	.15312	.2832	-.25324	.23496	.45454	.31337
#3	.45014	.3328	-.11404	-.74475	.44203	.25134
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit						
Low Limit						

Int. Std.	Sc1880	Sc3613	Sc3613-2
Units	Cts/S	Cts/S	Cts/S
Avg	2806.7	789480.	46505.
Stddev	13.5	1135.	129.
%RSD	.48232	.14371	.27772
#1	2820.0	789220.	46364.
#2	2807.0	790720.	46618.
#3	2793.0	788500.	46532.

Mercury

Client:

SHAW
CH2M HILL

TETRA

Curve Date: 11/14/2011 Curve age OK

Correlation: 0.99971 Corr. OK

Slope: 0.0122044
Intercept: 0.0005409

RL= 0.20 ug/l for H2O and TCLP
0.033 mg/kg (using 0.30 g) for soils or other
MDL= 0.08 ug/L WATER AND 0.013 mg/Kg SOIL
QC Criteria: Method Blank < 1/2 RL for CORP Samples
LCS = ±20% of True Value
CCB =<MDL

Curve Data			
Analysis Time	Conc.(ug/L)	Pk Height	Cal. ID
13:06:23	0	0.00016	11J0452
13:07:15	0.2	0.00238	11J0453
13:08:26	0.5	0.00606	11J0454
13:09:39	1	0.01295	11J0455
13:10:52	2	0.02555	11J0456
13:12:06	4	0.05158	11J0457
13:13:22	6	0.07262	11J0459
13:14:38	10	0.12229	11J0460

Empirical Laboratories tories

Digestion Date: 10/13/2011
Digestion by: KH
Analysis Date: 10/14/2011
Analyst: KH
Analyst Authorization:
Method#: 245.1/7470A for H2O
7471A for soils
Method Type: Cold Vapor
Batch: 1J13024 1J13025 1J13026
SEQ: 1J29111
CAL ID 1291003

Concentration (ug/L) = (Peak Height - intercept)/slope * dilution
Conversion for soils from concentration (ug/L) to mg/kg (wet weight) = concentration (ug/L) * final volume (mL)/initial weight (g) * 1L/1000mL * 1000g/1kg * 1g/1000mg

Lab. #	Client	Waste Description	T.V. (ug/L) (mg/kg)	Analysis Time HH:MM (Military)	Matrix Type	Digestion Initial Sample Volume	Digestion Final Sample Volume (mL)	Analysis Initial Sample Volume (mL)	Analysis Final Sample Volume (mL)	Dilution	Peak Height	[Hg] ug/L	[Hg] mg/kg	Recovery %	Control Limits Low Limit %	Control Limits High Limit %	RPD	Block	Method
SEQ-CAL1	QC	11J0452		13:06:23	H2O	30.00	30.0	30.0	30.0	1.00	0.00016	-0.03153						A	7470A
SEQ-CAL2	QC	11J0453		13:07:15	H2O	30.00	30.0	30.0	30.0	1.00	0.00238	0.15054						A	7470A
SEQ-CAL3	QC	11J0454		13:08:26	H2O	30.00	30.0	30.0	30.0	1.00	0.00606	0.45196						A	7470A
SEQ-CAL4	QC	11J0455		13:09:39	H2O	30.00	30.0	30.0	30.0	1.00	0.01295	1.01655						A	7470A
SEQ-CAL5	QC	11J0456		13:10:52	H2O	30.00	30.0	30.0	30.0	1.00	0.02555	2.04882						A	7470A
SEQ-CAL6	QC	11J0457		13:12:06	H2O	30.00	30.0	30.0	30.0	1.00	0.05158	4.18209						A	7470A
SEQ-CAL7	QC	11J0459		13:13:22	H2O	30.00	30.0	30.0	30.0	1.00	0.07262	5.90608						A	7470A
SEQ-CAL8	QC	11J0460		13:14:38	H2O	30.00	30.0	30.0	30.0	1.00	0.12229	9.97549						A	7470A
SEQ-ICV	QC	11J0461	4.0000	13:17:05	H2O	30.00	30.0	30.0	30.0	1.00	0.04998	4.05111		101.28	90.0	110.0		A	7470A
SEQ-ICB	QC	DI H2O		13:18:15	H2O	30.00	30.0	30.0	30.0	1.00	0.00010	-0.03584						A	7470A
SEQ-CRL	QC		0.2000	13:19:07	H2O	30.00	30.0	30.0	30.0	1.00	0.00234	0.14782		73.91	70.0	130.0		A	7470A
1J13024-BS1	QC	11D0442	2.0000	13:20:19	H2O	30.00	30.0	30.0	30.0	1.00	0.02665	2.13962		106.98	80.0	120.0		A	7470A
1J13024-BLKI	QC	DI H2O		13:21:32	H2O	30.00	30.0	30.0	30.0	1.00	0.00009	-0.03666						A	7470A
1109229-08	SHAW			13:22:24	H2O	30.00	30.0	30.0	30.0	1.00	0.00010	-0.03591						A	7470A
1J13024-MS1	SHAW	11D0442	2.0000	13:23:16	H2O	30.00	30.0	30.0	30.0	1.00	0.02659	2.13442		106.72	80.0	120.0		A	7470A
1J13024-MSD1	SHAW	11D0442	2.0000	13:24:32	H2O	30.00	30.0	30.0	30.0	1.00	0.02755	2.21340		110.67	80.0	120.0	3.63	A	7470A
1109229-09	SHAW			13:25:45	H2O	30.00	30.0	30.0	30.0	1.00	0.00015	-0.03198						A	7470A
1109229-10	SHAW			13:26:37	H2O	30.00	30.0	30.0	30.0	1.00	0.00013	-0.03331						A	7470A
1109229-21	SHAW			13:27:28	H2O	30.00	30.0	30.0	30.0	1.00	0.00007	-0.03822						A	7470A
1109229-22	SHAW			13:28:20	H2O	30.00	30.0	30.0	30.0	1.00	0.00015	-0.03162						A	7470A
SEQ-CCV	QC	11J0457	4.0000	13:29:11	H2O	30.00	30.0	30.0	30.0	1.00	0.04871	3.94700		98.68	85.0	115.0		A	7470A
SEQ-CCB	QC	DI H2O		13:30:23	H2O	30.00	30.0	30.0	30.0	1.00	0.00013	-0.03339						A	7470A
1109229-23	SHAW			13:31:15	H2O	30.00	30.0	30.0	30.0	1.00	0.00026	-0.02284						A	7470A
1109229-24	SHAW			13:32:07	H2O	30.00	30.0	30.0	30.0	1.00	0.00011	-0.03557						A	7470A
1109229-27	SHAW			13:32:58	H2O	30.00	30.0	30.0	30.0	1.00	0.00012	-0.03423						A	7470A
1109236-01	SHAW			13:33:50	H2O	30.00	30.0	30.0	30.0	1.00	0.00015	-0.03163						A	7470A
1109238-01	SHAW			13:34:42	H2O	30.00	30.0	30.0	30.0	1.00	0.00051	-0.00224						A	7470A
1110001-01	SHAW			13:35:34	H2O	30.00	30.0	30.0	30.0	1.00	0.00019	-0.02844						A	7470A
1110003-01	TETRA			13:36:25	H2O	30.00	30.0	30.0	30.0	1.00	0.00016	-0.03088						A	7470A
1110003-02	TETRA			13:37:16	H2O	30.00	30.0	30.0	30.0	1.00	0.00010	-0.03604						A	7470A
1110003-03	TETRA			13:38:08	H2O	30.00	30.0	30.0	30.0	1.00	0.00013	-0.03361						A	7470A
1110003-04	TETRA			13:39:03	H2O	30.00	30.0	30.0	30.0	1.00	0.00017	-0.03002						A	7470A
SEQ-CCV	QC	11J0457	4.0000	13:39:55	H2O	30.00	30.0	30.0	30.0	1.00	0.04858	3.93661		98.42	85.0	115.0		A	7470A
SEQ-CCB	QC	DI H2O		13:41:04	H2O	30.00	30.0	30.0	30.0	1.00	0.00015	-0.03189						A	7470A

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1110003

2nd BLQ 10/19/11

Lab. #	Client	Waste Description	T.V. (ug/L) (mg/kg)	Analysis Time HH:MM (Military)	Matrix Type	Digestion Initial Sample Volume	Digestion Final Sample Volume (mL)	Analysis Initial Sample Volume (mL)	Analysis Final Sample Volume (mL)	Dilution	Peak Height	[Hg] ug/L	[Hg] mg/kg	Recovery %	Control Limits Low Limit %	Control Limits High Limit %	RPD	Block	Method
1110003-05	TETRA			13:41:55	H2O	30.00	30.0	30.0	30.0	1.00	0.00045	-0.00707						A	7470A
1110003-06	TETRA			13:42:47	H2O	30.00	30.0	30.0	30.0	1.00	0.00009	-0.03699						A	7470A
1110003-07	TETRA			13:43:39	H2O	30.00	30.0	30.0	30.0	1.00	0.00025	-0.02362						A	7470A
1110003-08	TETRA			13:44:30	H2O	30.00	30.0	30.0	30.0	1.00	0.00011	-0.03502						A	7470A
1110003-09	TETRA			13:45:22	H2O	30.00	30.0	30.0	30.0	1.00	0.00120	0.05412						A	7470A
1J13025-BS1	QC	11D0442	2.0000	13:46:34	H2O	30.00	30.0	30.0	30.0	1.00	0.02583	2.07197		103.60	80.0	120.0		A	7470A
1J13025-BLK1	QC	DI H2O		13:47:47	H2O	30.00	30.0	30.0	30.0	1.00	0.00016	-0.03150						A	7470A
1110003-10	TETRA			13:48:39	H2O	30.00	30.0	30.0	30.0	1.00	0.00004	-0.04102						A	7470A
1110003-11	TETRA			13:49:30	H2O	30.00	30.0	30.0	30.0	1.00	0.00004	-0.04127						A	7470A
1110003-12	TETRA			13:50:22	H2O	30.00	30.0	30.0	30.0	1.00	0.00013	-0.03377						A	7470A
SEQ-CCV	QC	11J0456	2.0000	13:51:14	H2O	30.00	30.0	30.0	30.0	1.00	0.02360	1.88922		94.46	85.0	115.0		A	7470A
SEQ-CCB	QC	DI H2O		13:52:29	H2O	30.00	30.0	30.0	30.0	1.00	0.00009	-0.03718						A	7470A
1J13025-MS1	TETRA	11D0442	2.0000	13:53:20	H2O	30.00	30.0	30.0	30.0	1.00	0.02667	2.14062		107.03	80.0	120.0		A	7470A
1J13025-MSD1	TETRA	11D0442	2.0000	13:54:33	H2O	30.00	30.0	30.0	30.0	1.00	0.02698	2.16660		108.33	80.0	120.0	1.21	A	7470A
1110003-13	TETRA			13:55:41	H2O	30.00	30.0	30.0	30.0	1.00	0.00014	-0.03301						A	7470A
1J13025-MS2	TETRA	11D0442	2.0000	13:58:33	H2O	30.00	30.0	30.0	30.0	1.00	0.02547	2.04264		102.13	80.0	120.0		A	7470A
1J13025-MSD2	TETRA	11D0442	2.0000	13:57:43	H2O	30.00	30.0	30.0	30.0	1.00	0.02647	2.12471		106.24	80.0	120.0	3.94	A	7470A
1110003-14	TETRA			13:58:53	H2O	30.00	30.0	30.0	30.0	1.00	0.00043	-0.00897						A	7470A
1110003-15	TETRA			13:59:45	H2O	30.00	30.0	30.0	30.0	1.00	0.00019	-0.02896						A	7470A
1110016-01	SES			14:00:37	H2O	30.00	30.0	30.0	30.0	1.00	0.00013	-0.03327						A	7470A
1110024-03	SHAW			14:01:29	H2O	30.00	30.0	30.0	30.0	1.00	0.00090	0.02958						A	7470A
1110024-13	SHAW			14:02:40	H2O	30.00	30.0	30.0	30.0	1.00	0.00011	-0.03515						A	7470A
SEQ-CCV	QC	11J0456	2.0000	14:03:32	H2O	30.00	30.0	30.0	30.0	1.00	0.02325	1.86047		93.02	85.0	115.0		A	7470A
SEQ-CCB	QC	DI H2O		14:04:45	H2O	30.00	30.0	30.0	30.0	1.00	0.00010	-0.03576						A	7470A
1110024-14	SHAW			14:05:37	H2O	30.00	30.0	30.0	30.0	1.00	0.00013	-0.03354						B	7470A
1J13025-MS3	SHAW	11D0442	2.0000	14:06:28	H2O	30.00	30.0	30.0	30.0	1.00	0.02544	2.03993		102.00	80.0	120.0		B	7470A
1J13025-MSD3	SHAW	11D0442	2.0000	14:07:42	H2O	30.00	30.0	30.0	30.0	1.00	0.02579	2.06863		103.43	60.0	120.0	1.4	B	7470A
1110030-01	CH2M HILL			14:08:57	H2O	30.00	30.0	30.0	30.0	1.00	0.00009	-0.03719						B	7470A
1110030-02	CH2M HILL			14:09:52	H2O	30.00	30.0	30.0	30.0	1.00	0.00012	-0.03414						B	7470A
1110030-03	CH2M HILL			14:10:44	H2O	30.00	30.0	30.0	30.0	1.00	0.00010	-0.03599						B	7470A
1110030-04	CH2M HILL			14:11:35	H2O	30.00	30.0	30.0	30.0	1.00	0.00017	-0.03065						B	7470A
1110030-05	CH2M HILL			14:12:27	H2O	30.00	30.0	30.0	30.0	1.00	0.00018	-0.02955						B	7470A
1110030-06	CH2M HILL			14:13:18	H2O	30.00	30.0	30.0	30.0	1.00	0.00013	-0.03376						B	7470A
1110031-02	CH2M HILL			14:14:10	H2O	30.00	30.0	30.0	30.0	1.00	0.00020	-0.02816						B	7470A
SEQ-CCV	QC	11J0457	4.0000	14:15:02	H2O	30.00	30.0	30.0	30.0	1.00	0.04902	3.97208		99.30	85.0	115.0		A	7470A
SEQ-CCB	QC	DI H2O		14:16:13	H2O	30.00	30.0	30.0	30.0	1.00	0.00016	-0.03114						A	7470A
1110031-03	CH2M HILL			14:17:05	H2O	30.00	30.0	30.0	30.0	1.00	0.00013	-0.03397						B	7470A
1110031-05	CH2M HILL			14:17:56	H2O	30.00	30.0	30.0	30.0	1.00	0.00022	-0.02595						B	7470A
1110031-06	CH2M HILL			14:18:47	H2O	30.00	30.0	30.0	30.0	1.00	0.00006	-0.03961						B	7470A
1J13026-BS1	QC	11D0442	2.0000	14:19:39	H2O	30.00	30.0	30.0	30.0	1.00	0.02161	1.72618		86.31	80.0	120.0		B	7470A
1J13026-BLK1	QC	DI H2O		14:20:52	H2O	30.00	30.0	30.0	30.0	1.00	0.00022	-0.02609						B	7470A
1110031-07	CH2M HILL			14:21:44	H2O	30.00	30.0	30.0	30.0	1.00	0.00011	-0.03517						B	7470A
1110031-08	CH2M HILL			14:22:36	H2O	30.00	30.0	30.0	30.0	1.00	0.00014	-0.03268						B	7470A
1110031-10	CH2M HILL			14:23:31	H2O	30.00	30.0	30.0	30.0	1.00	0.00018	-0.02936						B	7470A
1110031-11	CH2M HILL			14:24:23	H2O	30.00	30.0	30.0	30.0	1.00	0.00013	-0.03345						B	7470A
1110031-13	CH2M HILL			14:25:15	H2O	30.00	30.0	30.0	30.0	1.00	0.00047	-0.00561						B	7470A
SEQ-CCV	QC	11J0457	4.0000	14:26:06	H2O	30.00	30.0	30.0	30.0	1.00	0.04823	3.90781		97.70	85.0	115.0		A	7470A
SEQ-CCB	QC	DI H2O		14:27:16	H2O	30.00	30.0	30.0	30.0	1.00	0.00016	-0.03101						A	7470A
1110032-02	CH2M HILL			14:28:08	H2O	30.00	30.0	30.0	30.0	1.00	0.00018	-0.02971						B	7470A
1110032-03	CH2M HILL			14:28:59	H2O	30.00	30.0	30.0	30.0	1.00	0.00017	-0.03068						B	7470A
1110032-04	CH2M HILL			14:29:51	H2O	30.00	30.0	30.0	30.0	1.00	0.00010	-0.03637						B	7470A
1110032-05	CH2M HILL			14:30:42	H2O	30.00	30.0	30.0	30.0	1.00	0.00016	-0.03110						B	7470A
1110032-08	CH2M HILL			14:31:34	H2O	30.00	30.0	30.0	30.0	1.00	0.00015	-0.03213						B	7470A
1110032-09	CH2M HILL			14:32:26	H2O	30.00	30.0	30.0	30.0	1.00	0.00017	-0.03052						B	7470A
1110032-10	CH2M HILL			14:33:18	H2O	30.00	30.0	30.0	30.0	1.00	0.00014	-0.03273						B	7470A

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1110003

Lab. #	Client	Waste Description	T.V. (ug/L) (mg/kg)	Analysis Time HH:MM (Military)	Matrix Type	Digestion		Analysis		Dilution	Peak Height	[Hg] ug/L	[Hg] mg/kg	Recovery %	Control Limits		RPD	Block	Method
						Initial Sample Volume	Final Sample Volume (mL)	Initial Sample Volume (mL)	Final Sample Volume (mL)						Low Limit %	High Limit %			
1110032-11	CH2M HILL			14:34:10	H2O	30.00	30.0	30.0	30.0	1.00	0.00016	-0.03119						B	7470A
1110076-02	SHAW			14:35:01	H2O	30.00	30.0	30.0	30.0	1.00	0.00019	-0.02883						B	7470A
1110076-03	SHAW			14:35:56	H2O	30.00	30.0	30.0	30.0	1.00	0.00017	-0.03070						B	7470A
SEQ-CCV	QC	11J0456	2.0000	14:36:48	H2O	30.00	30.0	30.0	30.0	1.00	0.02645	2.12261		106.13	85.0	115.0		A	7470A
SEQ-CCB	QC	DI H2O		14:37:56	H2O	30.00	30.0	30.0	30.0	1.00	0.00015	-0.03184						A	7470A
1110093-01	SHAW			14:38:48	H2O	30.00	30.0	30.0	30.0	1.00	0.00012	-0.03434						B	7470A
1110094-01	SHAW			14:39:39	H2O	30.00	30.0	30.0	30.0	1.00	0.00013	-0.03360						B	7470A
1J13026-MS1	SHAW	11D0442	2.0000	14:40:30	H2O	30.00	30.0	30.0	30.0	1.00	0.02539	2.03601		101.80	80.0	120.0		B	7470A
1J13026-MSD1	SHAW	11D0442	2.0000	14:41:40	H2O	30.00	30.0	30.0	30.0	1.00	0.02770	2.22555		111.28	80.0	120.0	8.9	B	7470A
SEQ-CRL	QC	11J0453	0.2000	14:42:51	H2O	30.00	30.0	30.0	30.0	1.00	0.00231	0.14531		72.65	70.0	130.0		A	7470A
SEQ-CCV	QC	11J0456	2.0000	14:44:02	H2O	30.00	30.0	30.0	30.0	1.00	0.02680	2.15160		107.58	85.0	115.0		A	7470A
SEQ-CCB	QC	DI H2O		14:45:13	H2O	30.00	30.0	30.0	30.0	1.00	0.00011	-0.03495						A	7470A

BS1: 0.3mls of 11D0442 diluted to 30mls DI H2O final volume.

BLK1: 30mls of DI H2O final volume.

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1110003

PREPARATION BENCH SHEET

1J13024

Empirical Laboratories, LLC **Printed: 10/28/2011 10:56:31AM**

Instrument:

Matrix: Water **Prepared using: METALS - pMercury-W SW 7470A** **(No Surrogate)**

Lab Number	Cont ID	Analysis	Prepared	Initial (mL)	Final (mL)	Spike ID	Source ID	ul Spike	ul Surrogate	PH	Extraction Comments
1109229-08	F	MET_7470_MERCURY	10/13/2011	30	30					NA	HG BLOCK A
1109229-08	F	MET_7470_DIS_MERCURY	10/13/2011	30	30					NA	Added for BatchQC in: 1J13024 HG BLOCK A
1109229-09	F	MET_7470_MERCURY	10/13/2011	30	30					NA	HG BLOCK A
1109229-10	F	MET_7470_MERCURY	10/13/2011	30	30					NA	HG BLOCK A
1109229-21	P	MET_7470_MERCURY	10/13/2011	30	30					NA	HG BLOCK A
1109229-22	E	MET_7470_MERCURY	10/13/2011	30	30					NA	HG BLOCK A
1109229-23	E	MET_7470_MERCURY	10/13/2011	30	30					NA	HG BLOCK A
1109229-24	E	MET_7470_MERCURY	10/13/2011	30	30					NA	HG BLOCK A
1109229-27	H	MET_7470_MERCURY	10/13/2011	30	30					NA	HG BLOCK A
1109236-01	E	MET_7470_MERCURY	10/13/2011	30	30					NA	HG BLOCK A
1109238-01	D	MET_7470_MERCURY	10/13/2011	30	30					NA	HG BLOCK A
1110001-01	E	MET_7470_MERCURY	10/13/2011	30	30					NA	HG BLOCK A
1110003-01	F	MET_7470_MERCURY	10/13/2011	30	30					NA	HG BLOCK A
1110003-02	A	MET_7470_DIS_MERCURY	10/13/2011	30	30					NA	HG BLOCK A
1110003-03	F	MET_7470_MERCURY	10/13/2011	30	30					NA	HG BLOCK A
1110003-04	A	MET_7470_DIS_MERCURY	10/13/2011	30	30					NA	HG BLOCK A
1110003-05	F	MET_7470_MERCURY	10/13/2011	30	30					NA	HG BLOCK A
1110003-06	A	MET_7470_DIS_MERCURY	10/13/2011	30	30					NA	HG BLOCK A
1110003-07	F	MET_7470_MERCURY	10/13/2011	30	30					NA	HG BLOCK A
1110003-08	A	MET_7470_DIS_MERCURY	10/13/2011	30	30					NA	HG BLOCK A
1110003-09	F	MET_7470_MERCURY	10/13/2011	30	30					NA	HG BLOCK A
1J13024-BLK1		QC	10/13/2011	30	30					NA	HG BLOCK A

Spiking Witnessed By Date

Preparation Reviewed By Date

Extracts Received By Date

1271

1110003

PREPARATION BENCH SHEET

1J13024

Empirical Laboratories, LLC **Printed: 10/28/2011 10:56:31AM**

Instrument:

Matrix: Water **Prepared using: METALS - pMercury-W SW 7470A** **(No Surrogate)**

Lab Number	Cont ID	Analysis	Prepared	Initial (mL)	Final (mL)	Spike ID	Source ID	ul Spike	ul Surrogate	PH	Extraction Comments
1J13024-BLKI		QC	10/13/2011	30	30					NA	HG BLOCK A
1J13024-BS1		QC	10/13/2011	30	30	11D0442		300		NA	HG BLOCK A
1J13024-MS1		QC	10/13/2011	30	30	11D0442	1109229-08	300		NA	HG BLOCK A
1J13024-MSD1		QC	10/13/2011	30	30	11D0442	1109229-08	300		NA	HG BLOCK A

Reagents Used:

Standard	Description
11H0586	Potassuim Persulfate (K2S2O8)
11H0740	Sulfuric Acid
11J0125	KMNO4 Reagent
11J0126	NAC L-Hydroxylamine Hydrochloride (HG Reagent)
11J0308	Nitric acid

Spiking Witnessed By Date

Preparation Reviewed By Date

Extracts Received By Date

1272

1110003

PREPARATION BENCH SHEET

1J13025

Empirical Laboratories, LLC **Printed: 11/1/2011 11:04:11AM**

Instrument:

Matrix: Water **Prepared using: METALS - pMercury-W SW 7470A** **(No Surrogate)**

Lab Number	Cont ID	Analysis	Prepared	Initial (mL)	Final (mL)	Spike ID	Source ID	ul Spike	ul Surrogate	PH	Extraction Comments
1110003-10	A	MET_7470_DIS_MERCURY	10/13/2011	30	30					NA	HG BLOCK A
1110003-11	F	MET_7470_MERCURY	10/13/2011	30	30					NA	HG BLOCK A
1110003-12	Q	MET_7470_DIS_MERCURY	10/13/2011	30	30					NA	Added for BatchQC in: 1J13025 HG BLOCK A
1110003-12	Q	MET_7470_MERCURY	10/13/2011	30	30					NA	MS/MSD HG BLOCK A
1110003-13	C	MET_7470_DIS_MERCURY	10/13/2011	30	30					NA	MS/MSD HG BLOCK A
1110003-13	C	MET_7470_MERCURY	10/13/2011	30	30					NA	Added for BatchQC in: 1J13025 HG BLOCK A
1110003-14	F	MET_7470_MERCURY	10/13/2011	30	30					NA	HG BLOCK A
1110003-15	A	MET_7470_DIS_MERCURY	10/13/2011	30	30					NA	HG BLOCK A
1110016-01	A	MET_7470_MERCURY	10/13/2011	30	30					NA	HG BLOCK A
1110024-03	E	MET_7470_MERCURY	10/13/2011	30	30					NA	HG BLOCK A
1110024-13	F	MET_7470_MERCURY	10/13/2011	30	30					NA	HG BLOCK A
1110024-14	S	MET_7470_DIS_MERCURY	10/13/2011	30	30					NA	Added for BatchQC in: 1J13025 HG BLOCK B
1110024-14	S	MET_7470_MERCURY	10/13/2011	30	30					NA	HG BLOCK B
1110030-01	F	MET_7470_MERCURY	10/13/2011	30	30					NA	HG BLOCK B
1110030-02	F	MET_7470_DIS_MERCURY	10/13/2011	30	30					NA	HG BLOCK B
1110030-03	F	MET_7470_MERCURY	10/13/2011	30	30					NA	HG BLOCK B
1110030-04	F	MET_7470_DIS_MERCURY	10/13/2011	30	30					NA	HG BLOCK B
1110030-05	F	MET_7470_MERCURY	10/13/2011	30	30					NA	HG BLOCK B
1110030-06	F	MET_7470_DIS_MERCURY	10/13/2011	30	30					NA	HG BLOCK B
1110031-02	F	MET_7470_MERCURY	10/13/2011	30	30					NA	HG BLOCK B
1110031-03	B	MET_7470_DIS_MERCURY	10/13/2011	30	30					NA	HG BLOCK B
1110031-05	F	MET_7470_MERCURY	10/13/2011	30	30					NA	HG BLOCK B

Spiking Witnessed By Date

Preparation Reviewed By Date

Extracts Received By Date

1273

1110003

PREPARATION BENCH SHEET

1J13025

Empirical Laboratories, LLC **Printed: 11/1/2011 11:04:11AM**

Instrument:

Matrix: Water **Prepared using: METALS - pMercury-W SW 7470A** **(No Surrogate)**

Lab Number	Cont ID	Analysis	Prepared	Initial (mL)	Final (mL)	Spike ID	Source ID	ul Spike	ul Surrogate	PH	Extraction Comments
1110031-06	B	MET_7470_DIS_MERCURY	10/13/2011	30	30					NA	HG BLOCK B
1J13025-BLK1		QC	10/13/2011	30	30					NA	HG BLOCK A
1J13025-BS1		QC	10/13/2011	30	30	11D0442		300		NA	HG BLOCK A
1J13025-MS1		QC	10/13/2011	30	30	11D0442	1110003-12	300		NA	HG BLOCK A
1J13025-MS2		QC	10/13/2011	30	30	11D0442	1110003-13	300		NA	HG BLOCK A
1J13025-MS3		QC	10/13/2011	30	30	11D0442	1110024-14	300		NA	HG BLOCK B
1J13025-MSD1		QC	10/13/2011	30	30	11D0442	1110003-12	300		NA	HG BLOCK A
1J13025-MSD2		QC	10/13/2011	30	30	11D0442	1110003-13	300		NA	HG BLOCK A
1J13025-MSD3		QC	10/13/2011	30	30	11D0442	1110024-14	300		NA	HG BLOCK B

Reagents Used:

Standard	Description
11H0586	Potassuim Persulfate (K2S2O8)
11H0740	Sulfuric Acid
11J0125	KMNO4 Reagent
11J0308	Nitric acid

Spiking Witnessed By Date

Preparation Reviewed By Date

Extracts Received By Date

1274

1110003

PREPARATION BENCH SHEET

1K08018

Empirical Laboratories, LLC **Printed: 11/23/2011 10:12:24AM**

Instrument:

Matrix: Water **Prepared using: METALS - MET_3005A_LOW** **(No Surrogate)**

Lab Number	Cont ID	Analysis	Prepared	Initial (mL)	Final (mL)	Spike ID	Source ID	ul Spike	ul Surrogate	PH	Extraction Comments
1109191-11	F	MET_ICP_LOW6010C_FULL	11/08/2011	100	25					NA	MS/Dup
1109192-27	F	MET_ICP_LOW6010C_FULL	11/08/2011	100	25					NA	MS/Dup
1110003-17	F	MET_ICP_LOW6010C_FULL	11/08/2011	100	25					NA	MS/Dup
1110003-18	A	MET_ICP_LOW6010C_FULL_I	11/08/2011	100	25					NA	MS/Dup
1110003-19	F	MET_ICP_LOW6010C_FULL	11/08/2011	100	25					NA	MS/Dup
1110003-20	A	MET_ICP_LOW6010C_FULL_I	11/08/2011	100	25					NA	MS/Dup
1110003-21	F	MET_ICP_LOW6010C_FULL	11/08/2011	100	25					NA	MS/Dup
1110003-22	A	MET_ICP_LOW6010C_FULL_I	11/08/2011	100	25					NA	MS/Dup
1110003-23	F	MET_ICP_LOW6010C_FULL	11/08/2011	100	25					NA	MS/Dup
1110003-24	A	MET_ICP_LOW6010C_FULL_I	11/08/2011	100	25					NA	MS/Dup
1110003-25	F	MET_ICP_LOW6010C_FULL	11/08/2011	100	25					NA	MS/Dup
1110003-26	A	MET_ICP_LOW6010C_FULL_I	11/08/2011	100	25					NA	MS/Dup
1110003-27	F	MET_ICP_LOW6010C_FULL	11/08/2011	100	25					NA	MS/Dup
1110003-28	F	MET_ICP_LOW6010C_FULL	11/08/2011	100	25					NA	MS/Dup
1110003-28	F	MET_ICP_LOW6010C_FULL_I	11/08/2011	100	25					NA	Added for BatchQC in: 1K08018
1110003-29	A	MET_ICP_LOW6010C_FULL_I	11/08/2011	100	25					NA	MS/Dup, MS/MSD
1110003-29	A	MET_ICP_LOW6010C_FULL	11/08/2011	100	25					NA	Added for BatchQC in: 1K08018
1110003-30	F	MET_ICP_LOW6010C_FULL	11/08/2011	100	25					NA	MS/Dup
1110003-31	A	MET_ICP_LOW6010C_FULL_I	11/08/2011	100	25					NA	MS/Dup
1K08018-BLK1		QC	11/08/2011	100	25					NA	
1K08018-BLK2		QC	11/08/2011	100	25					NA	Added 11/9/2011 by RGB
1K08018-BS1		QC	11/08/2011	100	25	11K0210		2000		NA	

Spiking Witnessed By Date

Preparation Reviewed By Date

Extracts Received By Date

1275

1110003

PREPARATION BENCH SHEET

1K08018

Empirical Laboratories, LLC **Printed: 11/23/2011 10:12:24AM**

Instrument:

Matrix: Water **Prepared using: METALS - MET_3005A_LOW** **(No Surrogate)**

Lab Number	Cont ID	Analysis	Prepared	Initial (mL)	Final (mL)	Spike ID	Source ID	ul Spike	ul Surrogate	PH	Extraction Comments
1K08018-BS2		QC	11/08/2011	100	25	11K0210		2000		NA	
1K08018-DUP1		QC	11/08/2011	100	25		1110003-28			NA	
1K08018-DUP2		QC	11/08/2011	100	25		1110003-29			NA	
1K08018-DUP3		QC	11/08/2011	100	25		1110003-28			NA	Added 11/16/2011 by BLQ
1K08018-DUP4		QC	11/08/2011	100	25		1110003-28			NA	Added 11/16/2011 by BLQ
1K08018-MS1		QC	11/08/2011	100	25	11K0214	1110003-28	25		NA	
1K08018-MS2		QC	11/08/2011	100	25	11K0214	1110003-29	25		NA	
1K08018-MSD1		QC	11/08/2011	100	25	11K0214	1110003-28	25		NA	
1K08018-MSD2		QC	11/08/2011	100	25	11K0214	1110003-29	25		NA	
1K08018-PS1		QC	11/08/2011	100	25	11K0214	1110003-28	25		NA	
1K08018-PS2		QC	11/08/2011	100	25	11K0214	1110003-29	25		NA	

Reagents Used:

Standard	Description
11J0307	Hydrochloric Acid
11J0308	Nitric acid

Spiking Witnessed By Date

Preparation Reviewed By Date

Extracts Received By Date

1276

1110003

Subcontractor Data Package
ENCO

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Environmental Conservation Laboratories, Inc.
10775 Central Port Drive
Orlando FL, 32824
Phone: 407.826.5314 FAX: 407.850.6945
www.encolabs.com

Monday, October 17, 2011

Empirical Laboratories, LLC (EM014)

Attn: Brian Richard

621 Mainstream Dr suite 270

Nashville, TN 37228

RE: Laboratory Results for
Project Number: 1110003, Project Name/Desc: Navy Fuel Depot CTO JM46
ENCO Workorder: A105389

Dear Brian Richard,

Enclosed is a copy of your laboratory report for test samples received by our laboratory on Thursday, October 6, 2011.

Unless otherwise noted in an attached project narrative, all samples were received in acceptable condition and processed in accordance with the referenced methods/procedures. Results for these procedures apply only to the samples as submitted.

The analytical results contained in this report are in compliance with NELAC standards, except as noted in the project narrative. This report shall not be reproduced except in full, without the written approval of the Laboratory.

This report contains only those analyses performed by Environmental Conservation Laboratories. Unless otherwise noted, all analyses were performed at ENCO Orlando. Data from outside organizations will be reported under separate cover.

If you have any questions or require further information, please do not hesitate to contact me.

Sincerely,

Marcia Colon For Ronald Wambles

Project Manager

Enclosure(s)

The total number of pages in this report, including this page is 16.

PROJECT NARRATIVE

Client: Empirical Laboratories, LLC
Project: Navy Fuel Depot CTO JM46
Project Number: 1110003
SDG: 111003
ENCO Project ID: A105389

Overview

All samples submitted were analyzed by Environmental Conservation Laboratories, Inc. in accordance with the methods referenced in the laboratory report. Any particular difficulties encountered during sample handling and processing will be discussed in the Remarks section below.

Remarks

Analysis: EPA 8260C
Affected Sample(s): FLC-4-MW01-092911 [A105389-01], FLC-4-MW-02-092911 [A105389-02], FLC-5-MW05-092911 [A105389-03], FLC-5-MW04-092911 [A105389-04], FLC-5-MW03-092911 [A105389-05], FLC-RB02-0929-11 [A105389-06], FLC-MW01-092911 [A105389-07], FLC-MW02-092911 [A105389-08], FLC-4-MW01-092911 [A105389-01RE1], FLC-4-MW-02-092911 [A105389-02RE1], FLC-5-MW05-092911 [A105389-03RE1], FLC-5-MW04-092911 [A105389-04RE1], FLC-5-MW03-092911 [A105389-05RE1], FLC-RB02-0929-11 [A105389-06RE1], FLC-MW01-092911 [A105389-07RE1], FLC-MW02-092911 [A105389-08RE1].
Nonconformance: The internal standard 1,4-Dioxane-d8 failed high, the opening QC and associated matrix spike and matrix spike duplicate passed. The samples were rerun.

Analysis: EPA 8260C
Affected Sample(s): FLC-5-MW05-092911 [A105389-03], FLC-5-MW04-092911 [A105389-04], FLC-5-MW05-092911 [A105389-03RE1], FLC-5-MW04-092911 [A105389-04RE1]
Nonconformance: The samples were rerun due to a high failing internal standard. The internal standard for 1,4-Dioxane-d8 failed high in the rerun samples. Suspect matrix interference.

Analysis: EPA 8260C
Sequence: AA16750
Affected Sample(s): 1J11017-MS1, 1J11017-MSD1, FLC-4-MW01-092911 [A105389-01RE1], FLC-4-MW-02-092911 [A105389-02RE1]
Nonconformance: Manual integrations
Additional Information: The following manual integrations were performed in the sample(s) 1J11017-MS1 due to ISTD reintegration: 1,4-Difluorobenzene.
The following manual integrations were performed in the sample(s) FLC-4-MW01-092911 [A105389-01RE1], FLC-4-MW-02-092911 [A105389-02RE1] due to ISTD reintegration: 1,4-Dioxane-d8.

Marcia Colon
Project Manager

www.encolabs.com

SAMPLE SUMMARY/LABORATORY CHRONICLE

Client ID: FLC-4-MW01-092911 **Lab ID: A105389-01RE1** **Sampled: 09/29/11 08:20** **Received: 10/06/11 09:05**

Parameter	Hold Date/Time(s)	Prep Date/Time(s)	Analysis Date/Time(s)
EPA 8260C	10/13/11	10/11/11 12:23	10/12/2011 13:23

Client ID: FLC-4-MW02-092911 **Lab ID: A105389-02RE1** **Sampled: 09/29/11 09:30** **Received: 10/06/11 09:05**

Parameter	Hold Date/Time(s)	Prep Date/Time(s)	Analysis Date/Time(s)
EPA 8260C	10/13/11	10/11/11 12:23	10/12/2011 14:00

Client ID: FLC-5-MW05-092911 **Lab ID: A105389-03RE1** **Sampled: 09/29/11 11:25** **Received: 10/06/11 09:05**

Parameter	Hold Date/Time(s)	Prep Date/Time(s)	Analysis Date/Time(s)
EPA 8260C	10/13/11	10/11/11 12:23	10/12/2011 14:37

Client ID: FLC-5-MW04-092911 **Lab ID: A105389-04RE1** **Sampled: 09/29/11 12:50** **Received: 10/06/11 09:05**

Parameter	Hold Date/Time(s)	Prep Date/Time(s)	Analysis Date/Time(s)
EPA 8260C	10/13/11	10/11/11 12:23	10/12/2011 15:14

Client ID: FLC-5-MW03-092911 **Lab ID: A105389-05RE1** **Sampled: 09/29/11 14:00** **Received: 10/06/11 09:05**

Parameter	Hold Date/Time(s)	Prep Date/Time(s)	Analysis Date/Time(s)
EPA 8260C	10/13/11	10/11/11 12:23	10/12/2011 15:49

Client ID: FLC-RB02-092911 **Lab ID: A105389-06RE1** **Sampled: 09/29/11 14:35** **Received: 10/06/11 09:05**

Parameter	Hold Date/Time(s)	Prep Date/Time(s)	Analysis Date/Time(s)
EPA 8260C	10/13/11	10/11/11 12:23	10/12/2011 16:24

Client ID: FLC-MW01-092911 **Lab ID: A105389-07RE1** **Sampled: 09/29/11 09:15** **Received: 10/06/11 09:05**

Parameter	Hold Date/Time(s)	Prep Date/Time(s)	Analysis Date/Time(s)
EPA 8260C	10/13/11	10/11/11 12:23	10/12/2011 12:49

Client ID: FLC-MW02-092911 **Lab ID: A105389-08RE1** **Sampled: 09/29/11 11:05** **Received: 10/06/11 09:05**

Parameter	Hold Date/Time(s)	Prep Date/Time(s)	Analysis Date/Time(s)
EPA 8260C	10/13/11	10/11/11 12:23	10/12/2011 17:00

SAMPLE DETECTION SUMMARY

No positive results detected.

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ANALYTICAL RESULTS

Description: FLC-4-MW01-092911
Matrix: Water
Project: Navy Fuel Depot CTO JM46

Lab Sample ID: A105389-01
Sampled: 09/29/11 08:20
Sampled By: Brian Richard

Received: 10/06/11 09:05
Work Order: A105389

Volatile Organic Compounds by GCMS SIM Isotope Dilution

^ - ENCO Orlando certified analyte [DOD A2LA: 3000-01]

Analyte [CAS Number]	Results	Flag	Units	DF	MDL	PQL	Batch	Method	Analyzed	By	Notes
1,4-Dioxane [123-91-1] ^	1.00	U	ug/L	1	1.00	3.00	1J11017	EPA 8260C	10/12/11 13:23	kat	

Surrogates	*Results*	*DF*	*Spike Lvl*	*% Rec*	*% Rec Limits*	*Batch*	*Method*	*Analyzed*	*By*	Notes
Toluene-d8	*5.16*	*1*	*5.00*	*103 %*	*79-127*	*1J11017*	*EPA 8260C*	*10/12/11 13:23*	*kat*	

This report relates only to the sample as received by the laboratory, and may only be reproduced in full.

www.encolabs.com

Description:	FLC-4-MW02-092911	**Lab Sample ID:**	A105389-02	**Received:**	10/06/11 09:05
Matrix:	Water	**Sampled:**	09/29/11 09:30	**Work Order:**	A105389
Project:	Navy Fuel Depot CTO JM46	**Sampled By:**	Brian Richard		

Volatile Organic Compounds by GCMS SIM Isotope Dilution

^ - ENCO Orlando certified analyte [DOD A2LA: 3000-01]

Analyte [CAS Number]	Results	Flag	Units	DF	MDL	PQL	Batch	Method	Analyzed	By	Notes
1,4-Dioxane [123-91-1] ^	1.00	U	ug/L	1	1.00	3.00	1J11017	EPA 8260C	10/12/11 14:00	kat	

Surrogates	*Results*	*DF*	*Spike Lvl*	*% Rec*	*% Rec Limits*	*Batch*	*Method*	*Analyzed*	*By*	Notes
Toluene-d8	*5.32*	*1*	*5.00*	*106 %*	*79-127*	*1J11017*	*EPA 8260C*	*10/12/11 14:00*	*kat*	

This report relates only to the sample as received by the laboratory, and may only be reproduced in full.

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Description:	FLC-5-MW05-092911	**Lab Sample ID:**	A105389-03	**Received:**	10/06/11 09:05
Matrix:	Water	**Sampled:**	09/29/11 11:25	**Work Order:**	A105389
Project:	Navy Fuel Depot CTO JM46	**Sampled By:**	Brian Richard		

Volatile Organic Compounds by GCMS SIM Isotope Dilution

^ - ENCO Orlando certified analyte [DOD A2LA: 3000-01]

Analyte [CAS Number]	Results	Flag	Units	DF	MDL	PQL	Batch	Method	Analyzed	By	Notes
1,4-Dioxane [123-91-1] ^	1.00	U	ug/L	1	1.00	3.00	1J11017	EPA 8260C	10/12/11 14:37	kat	

Surrogates	*Results*	*DF*	*Spike Lvl*	*% Rec*	*% Rec Limits*	*Batch*	*Method*	*Analyzed*	*By*	Notes
Toluene-d8	*5.37*	*1*	*5.00*	*107 %*	*79-127*	*1J11017*	*EPA 8260C*	*10/12/11 14:37*	*kat*	

This report relates only to the sample as received by the laboratory, and may only be reproduced in full.

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Description:	FLC-5-MW04-092911	**Lab Sample ID:**	A105389-04	**Received:**	10/06/11 09:05
Matrix:	Water	**Sampled:**	09/29/11 12:50	**Work Order:**	A105389
Project:	Navy Fuel Depot CTO JM46	**Sampled By:**	Brian Richard		

Volatile Organic Compounds by GCMS SIM Isotope Dilution

^ - ENCO Orlando certified analyte [DOD A2LA: 3000-01]

Analyte [CAS Number]	Results	Flag	Units	DF	MDL	PQL	Batch	Method	Analyzed	By	Notes
1,4-Dioxane [123-91-1] ^	1.00	U	ug/L	1	1.00	3.00	1J11017	EPA 8260C	10/12/11 15:14	kat	

Surrogates	*Results*	*DF*	*Spike Lvl*	*% Rec*	*% Rec Limits*	*Batch*	*Method*	*Analyzed*	*By*	Notes
Toluene-d8	*5.44*	*1*	*5.00*	*109 %*	*79-127*	*1J11017*	*EPA 8260C*	*10/12/11 15:14*	*kat*	

This report relates only to the sample as received by the laboratory, and may only be reproduced in full.

www.encolabs.com

Description:	FLC-5-MW03-092911	**Lab Sample ID:**	A105389-05	**Received:**	10/06/11 09:05
Matrix:	Water	**Sampled:**	09/29/11 14:00	**Work Order:**	A105389
Project:	Navy Fuel Depot CTO JM46	**Sampled By:**	Brian Richard		

Volatile Organic Compounds by GCMS SIM Isotope Dilution

^ - ENCO Orlando certified analyte [DOD A2LA: 3000-01]

Analyte [CAS Number]	Results	Flag	Units	DF	MDL	PQL	Batch	Method	Analyzed	By	Notes
1,4-Dioxane [123-91-1] ^	1.00	U	ug/L	1	1.00	3.00	1J11017	EPA 8260C	10/12/11 15:49	kat	

Surrogates	*Results*	*DF*	*Spike Lvl*	*% Rec*	*% Rec Limits*	*Batch*	*Method*	*Analyzed*	*By*	Notes
Toluene-d8	*5.46*	*1*	*5.00*	*109 %*	*79-127*	*1J11017*	*EPA 8260C*	*10/12/11 15:49*	*kat*	

This report relates only to the sample as received by the laboratory, and may only be reproduced in full.

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Description:	FLC-RB02-092911	**Lab Sample ID:**	A105389-06	**Received:**	10/06/11 09:05
Matrix:	Water	**Sampled:**	09/29/11 14:35	**Work Order:**	A105389
Project:	Navy Fuel Depot CTO JM46	**Sampled By:**	Brian Richard		

Volatile Organic Compounds by GCMS SIM Isotope Dilution

^ - ENCO Orlando certified analyte [DOD A2LA: 3000-01]

Analyte [CAS Number]	Results	Flag	Units	DF	MDL	PQL	Batch	Method	Analyzed	By	Notes
1,4-Dioxane [123-91-1] ^	1.00	U	ug/L	1	1.00	3.00	1J11017	EPA 8260C	10/12/11 16:24	kat	

Surrogates	*Results*	*DF*	*Spike Lvl*	*% Rec*	*% Rec Limits*	*Batch*	*Method*	*Analyzed*	*By*	Notes
Toluene-d8	*5.36*	*1*	*5.00*	*107 %*	*79-127*	*1J11017*	*EPA 8260C*	*10/12/11 16:24*	*kat*	

This report relates only to the sample as received by the laboratory, and may only be reproduced in full.

www.encolabs.com

Description:	FLC-MW01-092911	**Lab Sample ID:**	A105389-07	**Received:**	10/06/11 09:05
Matrix:	Water	**Sampled:**	09/29/11 09:15	**Work Order:**	A105389
Project:	Navy Fuel Depot CTO JM46	**Sampled By:**	Brian Richard		

Volatile Organic Compounds by GCMS SIM Isotope Dilution

^ - ENCO Orlando certified analyte [DOD A2LA: 3000-01]

Analyte [CAS Number]	Results	Flag	Units	DF	MDL	PQL	Batch	Method	Analyzed	By	Notes
1,4-Dioxane [123-91-1] ^	1.00	U	ug/L	1	1.00	3.00	1J11017	EPA 8260C	10/12/11 12:49	kat	

Surrogates	*Results*	*DF*	*Spike Lvl*	*% Rec*	*% Rec Limits*	*Batch*	*Method*	*Analyzed*	*By*	Notes
Toluene-d8	*5.34*	*1*	*5.00*	*107 %*	*79-127*	*1J11017*	*EPA 8260C*	*10/12/11 12:49*	*kat*	

This report relates only to the sample as received by the laboratory, and may only be reproduced in full.

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Description:	FLC-MW02-092911	**Lab Sample ID:**	A105389-08	**Received:**	10/06/11 09:05
Matrix:	Water	**Sampled:**	09/29/11 11:05	**Work Order:**	A105389
Project:	Navy Fuel Depot CTO JM46	**Sampled By:**	Brian Richard		

Volatile Organic Compounds by GCMS SIM Isotope Dilution

^ - ENCO Orlando certified analyte [DOD A2LA: 3000-01]

Analyte [CAS Number]	Results	Flag	Units	DF	MDL	PQL	Batch	Method	Analyzed	By	Notes
1,4-Dioxane [123-91-1] ^	1.00	U	ug/L	1	1.00	3.00	1J11017	EPA 8260C	10/12/11 17:00	kat	

Surrogates	*Results*	*DF*	*Spike Lvl*	*% Rec*	*% Rec Limits*	*Batch*	*Method*	*Analyzed*	*By*	Notes
Toluene-d8	*5.43*	*1*	*5.00*	*109 %*	*79-127*	*1J11017*	*EPA 8260C*	*10/12/11 17:00*	*kat*	

This report relates only to the sample as received by the laboratory, and may only be reproduced in full.

QUALITY CONTROL

Volatile Organic Compounds by GCMS SIM Isotope Dilution - Quality Control

Batch 1J11017 - EPA 5030B_MS

Blank (1J11017-BLK1) Prepared: 10/11/2011 12:23 Analyzed: 10/11/2011 16:09

Analyte	Result	Flag	PQL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
1,4-Dioxane	1.00	U	3.00	ug/L							
Surrogate: Toluene-d8	*5.59*			*ug/L*	*5.00*		*112*	*79-127*			

Blank (1J11017-BLK2) Prepared: 10/11/2011 12:23 Analyzed: 10/12/2011 12:15

Analyte	Result	Flag	PQL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
1,4-Dioxane	1.00	U	3.00	ug/L							
Surrogate: Toluene-d8	*5.79*			*ug/L*	*5.00*		*116*	*79-127*			

LCS (1J11017-BS1) Prepared: 10/11/2011 12:23 Analyzed: 10/11/2011 15:37

Analyte	Result	Flag	PQL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
1,4-Dioxane	28.8		3.00	ug/L	25.0		115	80-133			
Surrogate: Toluene-d8	*5.56*			*ug/L*	*5.00*		*111*	*79-127*			

Matrix Spike (1J11017-MS1) Prepared: 10/11/2011 12:23 Analyzed: 10/11/2011 16:41

Source: A105389-07

Analyte	Result	Flag	PQL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
1,4-Dioxane	27.5		3.00	ug/L	25.0	1.00 U	110	80-133			
Surrogate: Toluene-d8	*5.37*			*ug/L*	*5.00*		*107*	*79-127*			

Matrix Spike Dup (1J11017-MSD1) Prepared: 10/11/2011 12:23 Analyzed: 10/11/2011 17:16

Source: A105389-07

Analyte	Result	Flag	PQL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
1,4-Dioxane	30.8		3.00	ug/L	25.0	1.00 U	123	80-133	11	19	
Surrogate: Toluene-d8	*5.66*			*ug/L*	*5.00*		*113*	*79-127*			

FLAGS/NOTES AND DEFINITIONS

PQL	PQL: Practical Quantitation Limit.
B	Results are based upon membrane filter colony counts that are outside the method indicated ideal range.
I	The reported value is between the laboratory method detection limit (MDL) and the practical quantitation limit (PQL).
J	Estimated value.
K	Off-scale low; Actual value is known to be less than the value given.
L	Off-scale high; Actual value is known to be greater than value given.
M	Presence of analyte is verified but not quantified; the actual value is less than the MRL but greater than the MDL.
N	Presumptive evidence of presence of material.
O	Sampled, but analysis lost or not performed.
Q	Sample exceeded the accepted holding time.
T	Value reported is less than the laboratory method detection limit. The value is reported for informational purposes only and shall not be used in statistical analysis.
U	Indicates that the compound was analyzed for but not detected.
V	Indicates that the analyte was detected in both the sample and the associated method blank.
Y	The laboratory analysis was from an improperly preserved sample. The data may not be accurate.
Z	Too many colonies were present (TNTC); the numeric value represents the filtration volume.
?	Data are rejected and should not be used. Some or all of the quality control data for the analyte were outside criteria, and the presence or absence of the analyte cannot be determined from the data.
*	Not reported due to interference.

SUBCONTRACT ORDER

Empirical Laboratories, LLC

1110003

SENDING LABORATORY:

Empirical Laboratories, LLC
621 Mainstream Drive, Suite 270
Nashville, TN 37228
Phone: 615.345.1115
Fax: 866.417.0548
Project Manager: Brian Richard

RECEIVING LABORATORY:

Environmental Conservation Laboratories, Inc (SUB)
10775 Central Port Drive
Orlando, FL 32824
Phone :(404) 826-5314
Fax: (404) 850-6945

Analysis	Due	Expires	Laboratory ID	Comments
Sample ID: FLC-4-MW01-092911				
Reference No: 1110003-01	**Water**	**Sampled: 09/29/2011 08:20**		
SUB_SPECIALTY	10/19/2011 14:00	03/27/2012 07:20		1,4-Dioxane sub
Containers Supplied:				
Sample ID: FLC-4-MW02-092911				
Reference No: 1110003-03	**Water**	**Sampled: 09/29/2011 09:30**		
SUB_SPECIALTY	10/19/2011 14:00	03/27/2012 08:30		1,4-Dioxane sub
Containers Supplied:				
Sample ID: FLC-5-MW05-092911				
Reference No: 1110003-05	**Water**	**Sampled: 09/29/2011 11:25**		
SUB_SPECIALTY	10/19/2011 14:00	03/27/2012 10:25		1,4-Dioxane sub
Containers Supplied:				
Sample ID: FLC-5-MW04-092911				
Reference No: 1110003-07	**Water**	**Sampled: 09/29/2011 12:50**		
SUB_SPECIALTY	10/19/2011 14:00	03/27/2012 11:50		1,4-Dioxane sub
Containers Supplied:				
Sample ID: FLC-5-MW03-092911				
Reference No: 1110003-09	**Water**	**Sampled: 09/29/2011 14:00**		
SUB_SPECIALTY	10/19/2011 14:00	03/27/2012 13:00		1,4-Dioxane sub
Containers Supplied:				
Sample ID: FLC-RB02-092911				
Reference No: 1110003-11	**Water**	**Sampled: 09/29/2011 14:35**		
SUB_SPECIALTY	10/19/2011 14:00	03/27/2012 13:35		1,4-Dioxane sub
Containers Supplied:				

Released By	Date	Received By	Date
		J Lawson	10/6/11 9:05 FedEx
Released By	Date	Received By	Date

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SUBCONTRACT ORDER

Empirical Laboratories, LLC

1110003

Analysis	Due	Expires	Laboratory ID	Comments
Sample ID: FLC-5-MW01-092911				
Reference No: 1110003-12	**Water**	**Sampled: 09/30/2011 09:15**		**MS/MSD**
SUB_SPECIALTY	10/19/2011 14:00	03/28/2012 08:15		1,4-Dioxane sub
Containers Supplied:				
Sample ID: FLC-5-MW02-092911				
Reference No: 1110003-14	**Water**	**Sampled: 09/30/2011 11:05**		
SUB_SPECIALTY	10/19/2011 14:00	03/28/2012 10:05		1,4-Dioxane sub
Containers Supplied:				

Released By	Date	Received By	Date
		J. Poen	10/6/11
Released By	Date	Received By	Date

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ENCO Orlando

SDG: 1110003

CLASS: 03_VOA_SIM

METHOD: EPA 8260C

ANALYSES DATA PACKAGE COVER PAGE

EPA 8260C

Laboratory: ENCO Orlando

SDG: 1110003

Client: Empirical Laboratories, LLC (EM014)

Project: Navy Fuel Depot CTO JM46

Client Sample Id:	Lab Sample Id:
FLC-4-MW01-092911	A105389-01
FLC-4-MW01-092911	A105389-01RE1
FLC-4-MW02-092911	A105389-02
FLC-4-MW02-092911	A105389-02RE1
FLC-5-MW05-092911	A105389-03
FLC-5-MW05-092911	A105389-03RE1
FLC-5-MW04-092911	A105389-04
FLC-5-MW04-092911	A105389-04RE1
FLC-5-MW03-092911	A105389-05
FLC-5-MW03-092911	A105389-05RE1
FLC-RB02-092911	A105389-06
FLC-RB02-092911	A105389-06RE1
FLC-MW01-092911	A105389-07
FLC-MW01-092911	A105389-07RE1
FLC-MW02-092911	A105389-08
FLC-MW02-092911	A105389-08RE1

I certify that this data package is in compliance with the terms and conditions of the contract, both technically and for completeness, for other than the conditions detailed above. Release of the data contained in this hardcopy data package and in computer-readable data submitted on diskette has been authorized by the Laboratory Manager or the Manager's designee, as verified by the following signatures.

Signature: _____

Name: Marcia Colon

Date: October 17, 2011

Title: Project Manager

ORGANIC ANALYSIS DATA SHEET

EPA 8260C

FLC-4-MW01-092911

Laboratory:	ENCO Orlando			SDG:	1110003
Client:	Empirical Laboratories, LLC (EM014)			Project:	Navy Fuel Depot CTO JM46
Matrix:	Water	Laboratory ID:	A105389-01RE1	File ID:	4Jf019.D
Sampled:	09/29/11 08:20	Prepared:	10/11/11 12:23	Analyzed:	10/12/11 13:23
Solids:		Preparation:	EPA 5030B_MS	Initial/Final:	15 mL / 15 mL

Batch: 1J11017 Sequence: AA16750 Calibration: 1106015 Instrument: OVGCMS4

CAS NO.	COMPOUND	DILUTION	CONC. (ug/L)	Q	MDL	MRL
123-91-1	1,4-Dioxane	1	1.00	U	1.00	3.00

SYSTEM MONITORING COMPOUND	ADDED (ug/L)	CONC (ug/L)	% REC	QC LIMITS	Q
Toluene-d8	5.00	5.16	103	79 - 127	

INTERNAL STANDARD	AREA	RT	REF AREA	REF RT	Q
1,4-Difluorobenzene	7345006	11.498	5553767	11.498	
1,4-Dioxane-d8	362270	12.218	191008	12.253	

* Values outside of QC limits

ORGANIC ANALYSIS DATA SHEET

EPA 8260C

FLC-4-MW02-092911

Laboratory:	ENCO Orlando			SDG:	1110003
Client:	Empirical Laboratories, LLC (EM014)			Project:	Navy Fuel Depot CTO JM46
Matrix:	Water	Laboratory ID:	A105389-02RE1	File ID:	4Jf020.D
Sampled:	09/29/11 09:30	Prepared:	10/11/11 12:23	Analyzed:	10/12/11 14:00
Solids:		Preparation:	EPA 5030B_MS	Initial/Final:	15 mL / 15 mL

Batch: 1J11017 Sequence: AA16750 Calibration: 1106015 Instrument: OVGCMS4

CAS NO.	COMPOUND	DILUTION	CONC. (ug/L)	Q	MDL	MRL
123-91-1	1,4-Dioxane	1	1.00	U	1.00	3.00

SYSTEM MONITORING COMPOUND	ADDED (ug/L)	CONC (ug/L)	% REC	QC LIMITS	Q
Toluene-d8	5.00	5.32	106	79 - 127	

INTERNAL STANDARD	AREA	RT	REF AREA	REF RT	Q
1,4-Difluorobenzene	7430087	11.492	5553767	11.498	
1,4-Dioxane-d8	373490	12.204	191008	12.253	

* Values outside of QC limits

ORGANIC ANALYSIS DATA SHEET

EPA 8260C

FLC-5-MW05-092911

Laboratory:	ENCO Orlando			SDG:	1110003
Client:	Empirical Laboratories, LLC (EM014)			Project:	Navy Fuel Depot CTO JM46
Matrix:	Water	Laboratory ID:	A105389-03RE1	File ID:	4Jf021.D
Sampled:	09/29/11 11:25	Prepared:	10/11/11 12:23	Analyzed:	10/12/11 14:37
Solids:		Preparation:	EPA 5030B_MS	Initial/Final:	15 mL / 15 mL

Batch: 1J11017 Sequence: AA16750 Calibration: 1106015 Instrument: OVGCMS4

CAS NO.	COMPOUND	DILUTION	CONC. (ug/L)	Q	MDL	MRL
123-91-1	1,4-Dioxane	1	1.00	U	1.00	3.00

SYSTEM MONITORING COMPOUND	ADDED (ug/L)	CONC (ug/L)	% REC	QC LIMITS	Q
Toluene-d8	5.00	5.37	107	79 - 127	

INTERNAL STANDARD	AREA	RT	REF AREA	REF RT	Q
1,4-Difluorobenzene	7486287	11.492	5553767	11.498	
1,4-Dioxane-d8	583978	12.247	191008	12.253	*

* Values outside of QC limits

ORGANIC ANALYSIS DATA SHEET

EPA 8260C

FLC-5-MW04-092911

Laboratory:	ENCO Orlando			SDG:	1110003
Client:	Empirical Laboratories, LLC (EM014)			Project:	Navy Fuel Depot CTO JM46
Matrix:	Water	Laboratory ID:	A105389-04RE1	File ID:	4Jf022.D
Sampled:	09/29/11 12:50	Prepared:	10/11/11 12:23	Analyzed:	10/12/11 15:14
Solids:		Preparation:	EPA 5030B_MS	Initial/Final:	15 mL / 15 mL

Batch: 1J11017 Sequence: AA16750 Calibration: 1106015 Instrument: OVGCMS4

CAS NO.	COMPOUND	DILUTION	CONC. (ug/L)	Q	MDL	MRL
123-91-1	1,4-Dioxane	1	1.00	U	1.00	3.00

SYSTEM MONITORING COMPOUND	ADDED (ug/L)	CONC (ug/L)	% REC	QC LIMITS	Q
Toluene-d8	5.00	5.44	109	79 - 127	

INTERNAL STANDARD	AREA	RT	REF AREA	REF RT	Q
1,4-Difluorobenzene	7611088	11.492	5553767	11.498	
1,4-Dioxane-d8	544054	12.233	191008	12.253	*

* Values outside of QC limits

ORGANIC ANALYSIS DATA SHEET

EPA 8260C

FLC-5-MW03-092911

Laboratory:	ENCO Orlando			SDG:	1110003
Client:	Empirical Laboratories, LLC (EM014)			Project:	Navy Fuel Depot CTO JM46
Matrix:	Water	Laboratory ID:	A105389-05RE1	File ID:	4Jf023.D
Sampled:	09/29/11 14:00	Prepared:	10/11/11 12:23	Analyzed:	10/12/11 15:49
Solids:		Preparation:	EPA 5030B_MS	Initial/Final:	15 mL / 15 mL

Batch: 1J11017 Sequence: AA16750 Calibration: 1106015 Instrument: OVGCMS4

CAS NO.	COMPOUND	DILUTION	CONC. (ug/L)	Q	MDL	MRL
123-91-1	1,4-Dioxane	1	1.00	U	1.00	3.00

SYSTEM MONITORING COMPOUND	ADDED (ug/L)	CONC (ug/L)	% REC	QC LIMITS	Q
Toluene-d8	5.00	5.46	109	79 - 127	

INTERNAL STANDARD	AREA	RT	REF AREA	REF RT	Q
1,4-Difluorobenzene	6984901	11.498	5553767	11.498	
1,4-Dioxane-d8	279063	12.204	191008	12.253	

* Values outside of QC limits

ORGANIC ANALYSIS DATA SHEET

EPA 8260C

FLC-RB02-092911

Laboratory:	ENCO Orlando			SDG:	1110003
Client:	Empirical Laboratories, LLC (EM014)			Project:	Navy Fuel Depot CTO JM46
Matrix:	Water	Laboratory ID:	A105389-06RE1	File ID:	4Jf024.D
Sampled:	09/29/11 14:35	Prepared:	10/11/11 12:23	Analyzed:	10/12/11 16:24
Solids:		Preparation:	EPA 5030B_MS	Initial/Final:	15 mL / 15 mL

Batch: 1J11017 Sequence: AA16750 Calibration: 1106015 Instrument: OVGCMS4

CAS NO.	COMPOUND	DILUTION	CONC. (ug/L)	Q	MDL	MRL
123-91-1	1,4-Dioxane	1	1.00	U	1.00	3.00

SYSTEM MONITORING COMPOUND	ADDED (ug/L)	CONC (ug/L)	% REC	QC LIMITS	Q
Toluene-d8	5.00	5.36	107	79 - 127	

INTERNAL STANDARD	AREA	RT	REF AREA	REF RT	Q
1,4-Difluorobenzene	7391148	11.497	5553767	11.498	
1,4-Dioxane-d8	323611	12.209	191008	12.253	

* Values outside of QC limits

ORGANIC ANALYSIS DATA SHEET

EPA 8260C

FLC-MW01-092911

Laboratory:	ENCO Orlando			SDG:	1110003
Client:	Empirical Laboratories, LLC (EM014)			Project:	Navy Fuel Depot CTO JM46
Matrix:	Water	Laboratory ID:	A105389-07RE1	File ID:	4Jf018.D
Sampled:	09/29/11 09:15	Prepared:	10/11/11 12:23	Analyzed:	10/12/11 12:49
Solids:		Preparation:	EPA 5030B_MS	Initial/Final:	15 mL / 15 mL

Batch: 1J11017 Sequence: AA16750 Calibration: 1106015 Instrument: OVGCMS4

CAS NO.	COMPOUND	DILUTION	CONC. (ug/L)	Q	MDL	MRL
123-91-1	1,4-Dioxane	1	1.00	U	1.00	3.00

SYSTEM MONITORING COMPOUND	ADDED (ug/L)	CONC (ug/L)	% REC	QC LIMITS	Q
Toluene-d8	5.00	5.34	107	79 - 127	

INTERNAL STANDARD	AREA	RT	REF AREA	REF RT	Q
1,4-Difluorobenzene	6515490	11.498	5553767	11.498	
1,4-Dioxane-d8	286527	12.204	191008	12.253	

* Values outside of QC limits

ORGANIC ANALYSIS DATA SHEET

EPA 8260C

FLC-MW02-092911

Laboratory:	ENCO Orlando			SDG:	1110003
Client:	Empirical Laboratories, LLC (EM014)			Project:	Navy Fuel Depot CTO JM46
Matrix:	Water	Laboratory ID:	A105389-08RE1	File ID:	4Jf025.D
Sampled:	09/29/11 11:05	Prepared:	10/11/11 12:23	Analyzed:	10/12/11 17:00
Solids:		Preparation:	EPA 5030B_MS	Initial/Final:	15 mL / 15 mL

Batch: 1J11017 Sequence: AA16750 Calibration: 1106015 Instrument: OVGCMS4

CAS NO.	COMPOUND	DILUTION	CONC. (ug/L)	Q	MDL	MRL
123-91-1	1,4-Dioxane	1	1.00	U	1.00	3.00

SYSTEM MONITORING COMPOUND	ADDED (ug/L)	CONC (ug/L)	% REC	QC LIMITS	Q
Toluene-d8	5.00	5.43	109	79 - 127	

INTERNAL STANDARD	AREA	RT	REF AREA	REF RT	Q
1,4-Difluorobenzene	7301544	11.498	5553767	11.498	
1,4-Dioxane-d8	247979	12.19	191008	12.253	

* Values outside of QC limits

HOLDING TIME SUMMARY

EPA 8260C

Laboratory: ENCO Orlando SDG: 1110003

Client: Empirical Laboratories, LLC (EM014) Project: Navy Fuel Depot CTO JM46

Sample Name	Date Collected	Date Received	Date Prepared	Days to Prep	Max Days to Prep	Date Analyzed	Days to Analysis	Max Days to Analysis	Q
FLC-4-MW01-092911	09/29/11 08:20	10/06/11 09:05	10/11/11 12:23	12.17	NA	10/12/11 13:23	13.00	14.00	
FLC-4-MW02-092911	09/29/11 09:30	10/06/11 09:05	10/11/11 12:23	12.12	NA	10/12/11 14:00	13.00	14.00	
FLC-5-MW05-092911	09/29/11 11:25	10/06/11 09:05	10/11/11 12:23	12.04	NA	10/12/11 14:37	13.00	14.00	
FLC-5-MW04-092911	09/29/11 12:50	10/06/11 09:05	10/11/11 12:23	11.98	NA	10/12/11 15:14	13.00	14.00	
FLC-5-MW03-092911	09/29/11 14:00	10/06/11 09:05	10/11/11 12:23	11.93	NA	10/12/11 15:49	13.00	14.00	
FLC-RB02-092911	09/29/11 14:35	10/06/11 09:05	10/11/11 12:23	11.91	NA	10/12/11 16:24	13.00	14.00	
FLC-MW01-092911	09/29/11 09:15	10/06/11 09:05	10/11/11 12:23	12.13	NA	10/12/11 12:49	13.00	14.00	
FLC-MW02-092911	09/29/11 11:05	10/06/11 09:05	10/11/11 12:23	12.05	NA	10/12/11 17:00	13.00	14.00	

PREPARATION BATCH SUMMARY

EPA 8260C

Laboratory: ENCO Orlando SDG: 1110003

Client: Empirical Laboratories, LLC (EM014) Project: Navy Fuel Depot CTO JM46

Batch: 1J11017 Batch Matrix: Water Preparation: EPA 5030B_MS

SAMPLE NAME	LAB SAMPLE ID	LAB FILE ID	DATE PREPARED	OBSERVATIONS
Blank	1J11017-BLK1	4Jf004.D	10/11/11 12:23	
Blank	1J11017-BLK2	4Jf017.D	10/11/11 12:23	
LCS	1J11017-BS1	4Jf003.D	10/11/11 12:23	
FLC-MW01-092911	1J11017-MS1	4Jf005.D	10/11/11 12:23	
FLC-MW01-092911	1J11017-MSD1	4Jf006.D	10/11/11 12:23	
FLC-4-MW01-092911	A105389-01RE1	4Jf019.D	10/11/11 12:23	Added 10/12/2011 by KAT
FLC-4-MW02-092911	A105389-02RE1	4Jf020.D	10/11/11 12:23	Added 10/12/2011 by KAT
FLC-5-MW05-092911	A105389-03RE1	4Jf021.D	10/11/11 12:23	Added 10/12/2011 by KAT
FLC-5-MW04-092911	A105389-04RE1	4Jf022.D	10/11/11 12:23	Added 10/12/2011 by KAT
FLC-5-MW03-092911	A105389-05RE1	4Jf023.D	10/11/11 12:23	Added 10/12/2011 by KAT
FLC-RB02-092911	A105389-06RE1	4Jf024.D	10/11/11 12:23	Added 10/12/2011 by KAT
FLC-MW01-092911	A105389-07RE1	4Jf018.D	10/11/11 12:23	MS/MSD
FLC-MW02-092911	A105389-08RE1	4Jf025.D	10/11/11 12:23	Added 10/12/2011 by KAT

METHOD BLANK DATA SHEET
EPA 8260C

Laboratory:	ENCO Orlando			SDG:	1110003
Client:	Empirical Laboratories, LLC (EM014)			Project:	Navy Fuel Depot CTO JM46
Matrix:	Water	Laboratory ID:	1J11017-BLK1	File ID:	4Jf004.D
Prepared:	10/11/11 12:23	Preparation:	EPA 5030B_MS	Initial/Final:	15 mL / 15 mL
Analyzed:	10/11/11 16:09	Instrument:	OVGCMS4		
Batch:	1J11017	Sequence:	AA16750	Calibration:	1106015

CAS NO.	COMPOUND	CONC. (ug/L)	Q
123-91-1	1,4-Dioxane	1.00	U

SYSTEM MONITORING COMPOUND	ADDED (ug/L)	CONC (ug/L)	% REC	QC LIMITS	Q
Toluene-d8	5.00	5.59	112	79 - 127	

INTERNAL STANDARD	AREA	RT	REF AREA	REF RT	Q
1,4-Difluorobenzene	7110161	11.497	5553767	11.498	
1,4-Dioxane-d8	364646	12.209	191008	12.253	

METHOD BLANK DATA SHEET
EPA 8260C

Laboratory:	ENCO Orlando			SDG:	1110003
Client:	Empirical Laboratories, LLC (EM014)			Project:	Navy Fuel Depot CTO JM46
Matrix:	Water	Laboratory ID:	1J11017-BLK2	File ID:	4Jf017.D
Prepared:	10/11/11 12:23	Preparation:	EPA 5030B_MS	Initial/Final:	15 mL / 15 mL
Analyzed:	10/12/11 12:15	Instrument:	OVGCMS4		
Batch:	1J11017	Sequence:	AA16750	Calibration:	1106015

CAS NO.	COMPOUND	CONC. (ug/L)	Q
123-91-1	1,4-Dioxane	1.00	U

SYSTEM MONITORING COMPOUND	ADDED (ug/L)	CONC (ug/L)	% REC	QC LIMITS	Q
Toluene-d8	5.00	5.79	116	79 - 127	

INTERNAL STANDARD	AREA	RT	REF AREA	REF RT	Q
1,4-Difluorobenzene	6085519	11.498	5553767	11.498	
1,4-Dioxane-d8	180780	12.19	191008	12.253	

LCS / LCS DUPLICATE RECOVERY

EPA 8260C

Laboratory:	ENCO Orlando	SDG:	1110003
Client:	Empirical Laboratories, LLC (EM014)	Project:	Navy Fuel Depot CTO JM46
Matrix:	Water		
Batch:	1J11017	Laboratory ID:	1J11017-BS1
Preparation:	EPA 5030B_MS	Initial/Final:	15 mL / 15 mL

COMPOUND	SPIKE ADDED (ug/L)	LCS CONCENTRATION (ug/L)	LCS % REC. #	QC LIMITS REC.
1,4-Dioxane	25.0	28.8	115	80 - 133

Column to be used to flag recovery and RPD values with an asterisk

* Values outside of QC limits

MATRIX SPIKE / MATRIX SPIKE DUPLICATE RECOVERY

EPA 8260C

FLC-MW01-092911

Laboratory:	ENCO Orlando	SDG:	1110003
Client:	Empirical Laboratories, LLC (EM014)	Project:	Navy Fuel Depot CTO JM46
Matrix:	Water		
Batch:	1J11017	Laboratory ID:	1J11017-MS1
Preparation:	EPA 5030B_MS	Initial/Final:	15 mL / 15 mL

Source Sample Name: FLC-MW01-092911

COMPOUND	SPIKE ADDED (ug/L)	SAMPLE CONCENTRATION (ug/L)	MS CONCENTRATION (ug/L)	MS % REC. #	QC LIMITS REC.
1,4-Dioxane	25.0	ND	27.5	110	80 - 133

MATRIX SPIKE / MATRIX SPIKE DUPLICATE RECOVERY

EPA 8260C

FLC-MW01-092911

Laboratory:	ENCO Orlando	SDG:	1110003
Client:	Empirical Laboratories, LLC (EM014)	Project:	Navy Fuel Depot CTO JM46
Matrix:	Water		
Batch:	1J11017	Laboratory ID:	1J11017-MSD1
Preparation:	EPA 5030B_MS	Initial/Final:	15 mL / 15 mL

Source Sample Name: FLC-MW01-092911

COMPOUND	SPIKE ADDED (ug/L)	MSD CONCENTRATION (ug/L)	MSD % REC. #	% RPD #	QC LIMITS RPD	QC LIMITS REC.
1,4-Dioxane	25.0	30.8	123	11	19	80 - 133

Column to be used to flag recovery and RPD values with an asterisk

* Values outside of QC limits

SURROGATE STANDARD RECOVERY AND RT SUMMARY

EPA 8260C

Laboratory:	ENCO Orlando	SDG:	1110003
Client:	Empirical Laboratories, LLC (EM014)	Project:	Navy Fuel Depot CTO JM46
Sequence:	AA15332	Instrument:	OVGCMS4
Matrix:	Water	Calibration:	1106015

Surrogate Compound	Spike Level ug/L	% Recovery	Recovery Limits	RT	Calibration RT	RT Diff	RT Diff Limit	Q
Initial Cal Blank (AA15332-ICB1)			Lab File ID: 4FA002.D		Analyzed: 06/06/11 16:18			
Toluene-d8			79 - 127	12.8	12.794	0.0060	+/-1.0	
Secondary Cal Check (AA15332-SCV1)			Lab File ID: 4FA010.D		Analyzed: 06/07/11 16:25			
Toluene-d8	5.00	101	80 - 120	12.794	12.794	0.0000	+/-1.0	

SURROGATE STANDARD RECOVERY AND RT SUMMARY

EPA 8260C

Laboratory:	ENCO Orlando	SDG:	1110003
Client:	Empirical Laboratories, LLC (EM014)	Project:	Navy Fuel Depot CTO JM46
Sequence:	AA16750	Instrument:	OVGCMS4
Matrix:	Water	Calibration:	1106015

Surrogate Compound	Spike Level ug/L	% Recovery	Recovery Limits	RT	Calibration RT	RT Diff	RT Diff Limit	Q
Calibration Check (AA16750-CCV1)			Lab File ID: 4Jf002.D		Analyzed: 10/11/11 15:05			
Toluene-d8	5.00	110	80 - 120	12.797	12.794	0.0030	+/-1.0	
LCS (1J11017-BS1)			Lab File ID: 4Jf003.D		Analyzed: 10/11/11 15:37			
Toluene-d8	5.00	111	79 - 127	12.797	12.794	0.0030	+/-1.0	
Blank (1J11017-BLK1)			Lab File ID: 4Jf004.D		Analyzed: 10/11/11 16:09			
Toluene-d8	5.00	112	79 - 127	12.797	12.794	0.0030	+/-1.0	
Matrix Spike (1J11017-MS1)			Lab File ID: 4Jf005.D		Analyzed: 10/11/11 16:41			
Toluene-d8	5.00	107	79 - 127	12.797	12.794	0.0030	+/-1.0	
Matrix Spike Dup (1J11017-MSD1)			Lab File ID: 4Jf006.D		Analyzed: 10/11/11 17:16			
Toluene-d8	5.00	113	79 - 127	12.797	12.794	0.0030	+/-1.0	
Calibration Check (AA16750-CCV2)			Lab File ID: 4Jf016.D		Analyzed: 10/12/11 11:43			
Toluene-d8	5.00	111	80 - 120	12.797	12.794	0.0030	+/-1.0	
Blank (1J11017-BLK2)			Lab File ID: 4Jf017.D		Analyzed: 10/12/11 12:15			
Toluene-d8	5.00	116	79 - 127	12.797	12.794	0.0030	+/-1.0	
FLC-MW01-092911 (A105389-07RE1)			Lab File ID: 4Jf018.D		Analyzed: 10/12/11 12:49			
Toluene-d8	5.00	107	79 - 127	12.797	12.794	0.0030	+/-1.0	
FLC-4-MW01-092911 (A105389-01RE1)			Lab File ID: 4Jf019.D		Analyzed: 10/12/11 13:23			
Toluene-d8	5.00	103	79 - 127	12.797	12.794	0.0030	+/-1.0	
FLC-4-MW02-092911 (A105389-02RE1)			Lab File ID: 4Jf020.D		Analyzed: 10/12/11 14:00			
Toluene-d8	5.00	106	79 - 127	12.797	12.794	0.0030	+/-1.0	
FLC-5-MW05-092911 (A105389-03RE1)			Lab File ID: 4Jf021.D		Analyzed: 10/12/11 14:37			
Toluene-d8	5.00	107	79 - 127	12.797	12.794	0.0030	+/-1.0	
FLC-5-MW04-092911 (A105389-04RE1)			Lab File ID: 4Jf022.D		Analyzed: 10/12/11 15:14			
Toluene-d8	5.00	109	79 - 127	12.797	12.794	0.0030	+/-1.0	
FLC-5-MW03-092911 (A105389-05RE1)			Lab File ID: 4Jf023.D		Analyzed: 10/12/11 15:49			
Toluene-d8	5.00	109	79 - 127	12.797	12.794	0.0030	+/-1.0	
FLC-RB02-092911 (A105389-06RE1)			Lab File ID: 4Jf024.D		Analyzed: 10/12/11 16:24			
Toluene-d8	5.00	107	79 - 127	12.797	12.794	0.0030	+/-1.0	
FLC-MW02-092911 (A105389-08RE1)			Lab File ID: 4Jf025.D		Analyzed: 10/12/11 17:00			
Toluene-d8	5.00	109	79 - 127	12.797	12.794	0.0030	+/-1.0	

INTERNAL STANDARD AREA AND RT SUMMARY
EPA 8260C

Laboratory:	ENCO Orlando	SDG:	1110003
Client:	Empirical Laboratories, LLC (EM014)	Project:	Navy Fuel Depot CTO JM46
Sequence:	AA15332	Instrument:	OVGCMS4
Matrix:	Water	Calibration:	1106015

Internal Standard	Response	RT	Reference Response	Reference RT	Area %	Area % Limits	RT Diff	RT Diff Limit	Q
Initial Cal Blank (AA15332-ICB1)			Lab File ID: 4FA002.D			Analyzed: 06/06/11 16:18			
1,4-Difluorobenzene	4709850	11.497	5553767	11.498	85	50 - 200	-0.0010	+/-0.50	
1,4-Dioxane-d8	98740	12.181	191008	12.253	52	50 - 200	-0.0720	+/-0.50	
Cal Standard (AA15332-CAL1)			Lab File ID: 4FA003.D			Analyzed: 06/06/11 16:51			
1,4-Difluorobenzene	5546634	11.497	5553767	11.498	100	50 - 200	-0.0010	+/-0.50	
1,4-Dioxane-d8	258517	12.253	191008	12.253	135	50 - 200	0.0000	+/-0.50	
Cal Standard (AA15332-CAL2)			Lab File ID: 4FA004.D			Analyzed: 06/06/11 17:24			
1,4-Difluorobenzene	5459785	11.497	5553767	11.498	98	50 - 200	-0.0010	+/-0.50	
1,4-Dioxane-d8	236794	12.253	191008	12.253	124	50 - 200	0.0000	+/-0.50	
Cal Standard (AA15332-CAL3)			Lab File ID: 4FA005.D			Analyzed: 06/06/11 17:58			
1,4-Difluorobenzene	5553767	11.498	5553767	11.498	100	50 - 200	0.0000	+/-0.50	
1,4-Dioxane-d8	191008	12.253	191008	12.253	100	50 - 200	0.0000	+/-0.50	
Cal Standard (AA15332-CAL4)			Lab File ID: 4FA006.D			Analyzed: 06/06/11 18:34			
1,4-Difluorobenzene	5515045	11.492	5553767	11.498	99	50 - 200	-0.0060	+/-0.50	
1,4-Dioxane-d8	247344	12.253	191008	12.253	129	50 - 200	0.0000	+/-0.50	
Cal Standard (AA15332-CAL5)			Lab File ID: 4FA007.D			Analyzed: 06/06/11 19:09			
1,4-Difluorobenzene	5758591	11.492	5553767	11.498	104	50 - 200	-0.0060	+/-0.50	
1,4-Dioxane-d8	295410	12.31	191008	12.253	155	50 - 200	0.0570	+/-0.50	
Secondary Cal Check (AA15332-SCV1)			Lab File ID: 4FA010.D			Analyzed: 06/07/11 16:25			
1,4-Difluorobenzene	5382604	11.497	5553767	11.498	97	50 - 200	-0.0010	+/-0.50	
1,4-Dioxane-d8	223770	12.252	191008	12.253	117	50 - 200	-0.0010	+/-0.50	

INTERNAL STANDARD AREA AND RT SUMMARY
EPA 8260C

Laboratory:	ENCO Orlando	SDG:	1110003
Client:	Empirical Laboratories, LLC (EM014)	Project:	Navy Fuel Depot CTO JM46
Sequence:	AA16750	Instrument:	OVGCMS4
Matrix:	Water	Calibration:	1106015

Internal Standard	Response	RT	Reference Response	Reference RT	Area %	Area % Limits	RT Diff	RT Diff Limit	Q
Calibration Check (AA16750-CCV1)			Lab File ID: 4Jf002.D			Analyzed: 10/11/11 15:05			
1,4-Difluorobenzene	6370213	11.498	5553767	11.498	115	50 - 200	0.0000	+/-0.50	
1,4-Dioxane-d8	131059	12.181	191008	12.253	69	50 - 200	-0.0720	+/-0.50	
LCS (1J11017-BS1)			Lab File ID: 4Jf003.D			Analyzed: 10/11/11 15:37			
1,4-Difluorobenzene	6863318	11.498	5553767	11.498	124	50 - 200	0.0000	+/-0.50	
1,4-Dioxane-d8	336703	12.204	191008	12.253	176	50 - 200	-0.0490	+/-0.50	
Blank (1J11017-BLK1)			Lab File ID: 4Jf004.D			Analyzed: 10/11/11 16:09			
1,4-Difluorobenzene	7110161	11.497	5553767	11.498	128	50 - 200	-0.0010	+/-0.50	
1,4-Dioxane-d8	364646	12.209	191008	12.253	191	50 - 200	-0.0440	+/-0.50	
Matrix Spike (1J11017-MS1)			Lab File ID: 4Jf005.D			Analyzed: 10/11/11 16:41			
1,4-Difluorobenzene	6226005	11.498	5553767	11.498	112	50 - 200	0.0000	+/-0.50	
1,4-Dioxane-d8	229144	12.204	191008	12.253	120	50 - 200	-0.0490	+/-0.50	
Matrix Spike Dup (1J11017-MSD1)			Lab File ID: 4Jf006.D			Analyzed: 10/11/11 17:16			
1,4-Difluorobenzene	7570162	11.498	5553767	11.498	136	50 - 200	0.0000	+/-0.50	
1,4-Dioxane-d8	262322	12.419	191008	12.253	137	50 - 200	0.1660	+/-0.50	
Calibration Check (AA16750-CCV2)			Lab File ID: 4Jf016.D			Analyzed: 10/12/11 11:43			
1,4-Difluorobenzene	6312243	11.498	5553767	11.498	114	50 - 200	0.0000	+/-0.50	
1,4-Dioxane-d8	99838	12.175	191008	12.253	52	50 - 200	-0.0780	+/-0.50	
Blank (1J11017-BLK2)			Lab File ID: 4Jf017.D			Analyzed: 10/12/11 12:15			
1,4-Difluorobenzene	6085519	11.498	5553767	11.498	110	50 - 200	0.0000	+/-0.50	
1,4-Dioxane-d8	180780	12.19	191008	12.253	95	50 - 200	-0.0630	+/-0.50	
FLC-MW01-092911 (A105389-07RE1)			Lab File ID: 4Jf018.D			Analyzed: 10/12/11 12:49			
1,4-Difluorobenzene	6515490	11.498	5553767	11.498	117	50 - 200	0.0000	+/-0.50	
1,4-Dioxane-d8	286527	12.204	191008	12.253	150	50 - 200	-0.0490	+/-0.50	
FLC-4-MW01-092911 (A105389-01RE1)			Lab File ID: 4Jf019.D			Analyzed: 10/12/11 13:23			
1,4-Difluorobenzene	7345006	11.498	5553767	11.498	132	50 - 200	0.0000	+/-0.50	
1,4-Dioxane-d8	362270	12.218	191008	12.253	190	50 - 200	-0.0350	+/-0.50	
FLC-4-MW02-092911 (A105389-02RE1)			Lab File ID: 4Jf020.D			Analyzed: 10/12/11 14:00			
1,4-Difluorobenzene	7430087	11.492	5553767	11.498	134	50 - 200	-0.0060	+/-0.50	
1,4-Dioxane-d8	373490	12.204	191008	12.253	196	50 - 200	-0.0490	+/-0.50	
FLC-5-MW05-092911 (A105389-03RE1)			Lab File ID: 4Jf021.D			Analyzed: 10/12/11 14:37			
1,4-Difluorobenzene	7486287	11.492	5553767	11.498	135	50 - 200	-0.0060	+/-0.50	
1,4-Dioxane-d8	583978	12.247	191008	12.253	306	50 - 200	-0.0060	+/-0.50	*
FLC-5-MW04-092911 (A105389-04RE1)			Lab File ID: 4Jf022.D			Analyzed: 10/12/11 15:14			
1,4-Difluorobenzene	7611088	11.492	5553767	11.498	137	50 - 200	-0.0060	+/-0.50	
1,4-Dioxane-d8	544054	12.233	191008	12.253	285	50 - 200	-0.0200	+/-0.50	*

INTERNAL STANDARD AREA AND RT SUMMARY
EPA 8260C

Laboratory:	ENCO Orlando	SDG:	1110003
Client:	Empirical Laboratories, LLC (EM014)	Project:	Navy Fuel Depot CTO JM46
Sequence:	AA16750	Instrument:	OVGCMS4
Matrix:	Water	Calibration:	1106015

Internal Standard	Response	RT	Reference Response	Reference RT	Area %	Area % Limits	RT Diff	RT Diff Limit	Q
FLC-5-MW03-092911 (A105389-05RE1)			Lab File ID: 4Jf023.D			Analyzed: 10/12/11 15:49			
1,4-Difluorobenzene	6984901	11.498	5553767	11.498	126	50 - 200	0.0000	+/-0.50	
1,4-Dioxane-d8	279063	12.204	191008	12.253	146	50 - 200	-0.0490	+/-0.50	
FLC-RB02-092911 (A105389-06RE1)			Lab File ID: 4Jf024.D			Analyzed: 10/12/11 16:24			
1,4-Difluorobenzene	7391148	11.497	5553767	11.498	133	50 - 200	-0.0010	+/-0.50	
1,4-Dioxane-d8	323611	12.209	191008	12.253	169	50 - 200	-0.0440	+/-0.50	
FLC-MW02-092911 (A105389-08RE1)			Lab File ID: 4Jf025.D			Analyzed: 10/12/11 17:00			
1,4-Difluorobenzene	7301544	11.498	5553767	11.498	131	50 - 200	0.0000	+/-0.50	
1,4-Dioxane-d8	247979	12.19	191008	12.253	130	50 - 200	-0.0630	+/-0.50	

ANALYSIS BATCH (SEQUENCE) SUMMARY

EPA 8260C

Laboratory:	ENCO Orlando	SDG:	1110003
Client:	Empirical Laboratories, LLC (EM014)	Project:	Navy Fuel Depot CTO JM46
Sequence:	AA15332	Instrument:	OVGCMS4
		Calibration:	1106015

Sample Name	Lab Sample ID	Lab File ID	Analysis Date/Time
MS Tune	AA15332-TUN1	4FA001.D	06/06/11 15:49
Initial Cal Blank	AA15332-ICB1	4FA002.D	06/06/11 16:18
Cal Standard	AA15332-CAL1	4FA003.D	06/06/11 16:51
Cal Standard	AA15332-CAL2	4FA004.D	06/06/11 17:24
Cal Standard	AA15332-CAL3	4FA005.D	06/06/11 17:58
Cal Standard	AA15332-CAL4	4FA006.D	06/06/11 18:34
Cal Standard	AA15332-CAL5	4FA007.D	06/06/11 19:09
MS Tune	AA15332-TUN2	4FA008.D	06/07/11 15:20
Secondary Cal Check	AA15332-SCV1	4FA010.D	06/07/11 16:25

ANALYSIS BATCH (SEQUENCE) SUMMARY

EPA 8260C

Laboratory:	ENCO Orlando	SDG:	1110003
Client:	Empirical Laboratories, LLC (EM014)	Project:	Navy Fuel Depot CTO JM46
Sequence:	AA16750	Instrument:	OVGCMS4
		Calibration:	1106015

Sample Name	Lab Sample ID	Lab File ID	Analysis Date/Time
MS Tune	AA16750-TUN1	4Jf001.D	10/11/11 14:33
Calibration Check	AA16750-CCV1	4Jf002.D	10/11/11 15:05
LCS	1J11017-BS1	4Jf003.D	10/11/11 15:37
Blank	1J11017-BLK1	4Jf004.D	10/11/11 16:09
FLC-MW01-092911	1J11017-MS1	4Jf005.D	10/11/11 16:41
FLC-MW01-092911	1J11017-MSD1	4Jf006.D	10/11/11 17:16
MS Tune	AA16750-TUN2	4Jf015.D	10/12/11 11:14
Calibration Check	AA16750-CCV2	4Jf016.D	10/12/11 11:43
Blank	1J11017-BLK2	4Jf017.D	10/12/11 12:15
FLC-MW01-092911	A105389-07RE1	4Jf018.D	10/12/11 12:49
FLC-4-MW01-092911	A105389-01RE1	4Jf019.D	10/12/11 13:23
FLC-4-MW02-092911	A105389-02RE1	4Jf020.D	10/12/11 14:00
FLC-5-MW05-092911	A105389-03RE1	4Jf021.D	10/12/11 14:37
FLC-5-MW04-092911	A105389-04RE1	4Jf022.D	10/12/11 15:14
FLC-5-MW03-092911	A105389-05RE1	4Jf023.D	10/12/11 15:49
FLC-RB02-092911	A105389-06RE1	4Jf024.D	10/12/11 16:24
FLC-MW02-092911	A105389-08RE1	4Jf025.D	10/12/11 17:00

MASS SPECTROMETER INSTRUMENT PERFORMANCE CHECK

EPA 8260C

Laboratory:	ENCO Orlando	SDG:	1110003
Client:	Empirical Laboratories, LLC (EM014)	Project:	Navy Fuel Depot CTO JM46
Lab File ID:	4FA001.D	Injection Date:	06/06/11
Instrument ID:	OVGCMS4	Injection Time:	15:49
Sequence:	AA15332	Lab Sample ID:	AA15332-TUN1

m/z	ION ABUNDANCE CRITERIA	% RELATIVE ABUNDANCE	
50	15 - 40% of 95	16.6	PASS
75	30 - 60% of 95	46.8	PASS
95	Base peak, 100% relative abundance	100	PASS
96	5 - 9% of 95	8.17	PASS
173	Less than 2% of 174	0.477	PASS
174	50 - 200% of 95	84.3	PASS
175	5 - 9% of 174	7.58	PASS
176	95 - 101% of 174	96.2	PASS
177	5 - 9% of 176	7.63	PASS

MASS SPECTROMETER INSTRUMENT PERFORMANCE CHECK

EPA 8260C

Laboratory:	ENCO Orlando	SDG:	1110003
Client:	Empirical Laboratories, LLC (EM014)	Project:	Navy Fuel Depot CTO JM46
Lab File ID:	4FA008.D	Injection Date:	06/07/11
Instrument ID:	OVGCMS4	Injection Time:	15:20
Sequence:	AA15332	Lab Sample ID:	AA15332-TUN2

m/z	ION ABUNDANCE CRITERIA	% RELATIVE ABUNDANCE	
50	15 - 40% of 95	18.3	PASS
75	30 - 60% of 95	50.1	PASS
95	Base peak, 100% relative abundance	100	PASS
96	5 - 9% of 95	6.97	PASS
173	Less than 2% of 174	0.741	PASS
174	50 - 200% of 95	86.8	PASS
175	5 - 9% of 174	7.59	PASS
176	95 - 101% of 174	95.3	PASS
177	5 - 9% of 176	6.31	PASS

MASS SPECTROMETER INSTRUMENT PERFORMANCE CHECK

EPA 8260C

Laboratory:	ENCO Orlando	SDG:	1110003
Client:	Empirical Laboratories, LLC (EM014)	Project:	Navy Fuel Depot CTO JM46
Lab File ID:	4Jf001.D	Injection Date:	10/11/11
Instrument ID:	OVGCMS4	Injection Time:	14:33
Sequence:	AA16750	Lab Sample ID:	AA16750-TUN1

m/z	ION ABUNDANCE CRITERIA	% RELATIVE ABUNDANCE	
50	15 - 40% of 95	18.4	PASS
75	30 - 60% of 95	58.9	PASS
95	Base peak, 100% relative abundance	100	PASS
96	5 - 9% of 95	7.14	PASS
173	Less than 2% of 174	0	PASS
174	50 - 200% of 95	84.5	PASS
175	5 - 9% of 174	8.46	PASS
176	95 - 101% of 174	97.7	PASS
177	5 - 9% of 176	6.05	PASS

MASS SPECTROMETER INSTRUMENT PERFORMANCE CHECK

EPA 8260C

Laboratory:	ENCO Orlando	SDG:	1110003
Client:	Empirical Laboratories, LLC (EM014)	Project:	Navy Fuel Depot CTO JM46
Lab File ID:	4Jf015.D	Injection Date:	10/12/11
Instrument ID:	OVGCMS4	Injection Time:	11:14
Sequence:	AA16750	Lab Sample ID:	AA16750-TUN2

m/z	ION ABUNDANCE CRITERIA	% RELATIVE ABUNDANCE	
50	15 - 40% of 95	18.2	PASS
75	30 - 60% of 95	51.7	PASS
95	Base peak, 100% relative abundance	100	PASS
96	5 - 9% of 95	6.67	PASS
173	Less than 2% of 174	0.193	PASS
174	50 - 200% of 95	84.7	PASS
175	5 - 9% of 174	7.47	PASS
176	95 - 101% of 174	97.1	PASS
177	5 - 9% of 176	6.59	PASS

CONTINUING CALIBRATION CHECK

EPA 8260C

Laboratory:	ENCO Orlando	SDG:	1110003
Client:	Empirical Laboratories, LLC (EM014)	Project:	Navy Fuel Depot CTO JM46
Instrument ID:	OVGCMS4	Calibration:	1106015
Lab File ID:	4Jf002.D	Calibration Date:	06/06/11 14:20
Sequence:	AA16750	Injection Date:	10/11/11
Lab Sample ID:	AA16750-CCV1	Injection Time:	15:05

		CONC. (ug/L)		RESPONSE FACTOR			% DIFF / DRIFT	
COMPOUND	TYPE	STD	CCV	ICAL	CCV	MIN (#)	CCV	LIMIT (#)
1,4-Dioxane	A	25.0	25.5	1.615359	1.645396		1.9	20

Column to be used to flag Response Factor and %Diff/Drift values with an asterisk

* Values outside of QC limits

CONTINUING CALIBRATION CHECK

EPA 8260C

Laboratory:	ENCO Orlando	SDG:	1110003
Client:	Empirical Laboratories, LLC (EM014)	Project:	Navy Fuel Depot CTO JM46
Instrument ID:	OVGCMS4	Calibration:	1106015
Lab File ID:	4Jf016.D	Calibration Date:	06/06/11 14:20
Sequence:	AA16750	Injection Date:	10/12/11
Lab Sample ID:	AA16750-CCV2	Injection Time:	11:43

		CONC. (ug/L)		RESPONSE FACTOR			% DIFF / DRIFT	
COMPOUND	TYPE	STD	CCV	ICAL	CCV	MIN (#)	CCV	LIMIT (#)
1,4-Dioxane	A	25.0	26.6	1.615359	1.718183		6.4	20

Column to be used to flag Response Factor and %Diff/Drift values with an asterisk

* Values outside of QC limits

INITIAL CALIBRATION STANDARDS

EPA 8260C

Laboratory:	ENCO Orlando	SDG:	1110003
Client:	Empirical Laboratories, LLC (EM014)	Project:	Navy Fuel Depot CTO JM46
Sequence:	AA15332	Instrument:	OVGCMS4
Calibration:	1106015		

Standard ID	Description	Lab Sample ID	Lab File ID	Analysis Date/Time
A1D0342	8260 BFB Tuning solution	AA15332-TUN1	4FA001.D	06/06/11 15:49
A1E0104	8260 SIM ID 2ppb std.	AA15332-CAL1	4FA003.D	06/06/11 16:51
A1E0105	8260 SIM ID 4ppb std.	AA15332-CAL2	4FA004.D	06/06/11 17:24
A1E0106	8260 SIM ID 25ppb std.	AA15332-CAL3	4FA005.D	06/06/11 17:58
A1E0107	8260 SIM ID 40ppb std.	AA15332-CAL4	4FA006.D	06/06/11 18:34
A1E0108	8260 SIM ID 80ppb std.	AA15332-CAL5	4FA007.D	06/06/11 19:09
A1D0342	8260 BFB Tuning solution	AA15332-TUN2	4FA008.D	06/07/11 15:20
A1E0109	8260 SIM ID SCV virtual	AA15332-SCV1	4FA010.D	06/07/11 16:25

INITIAL CALIBRATION DATA

EPA 8260C

Laboratory:	ENCO Orlando	SDG:	1110003
Client:	Empirical Laboratories, LLC (EM014)	Project:	Navy Fuel Depot CTO JM46
Calibration:	1106015	Instrument:	OVGCMS4
Matrix:	Water	Calibration Date:	06/06/11 14:20

Compound	Level 01		Level 02		Level 03		Level 04		Level 05		Level 06	
	ug/L	RF	ug/L	RF	ug/L	RF	ug/L	RF	ug/L	RF	ug/L	RF
1,4-Dioxane	2	1.534328	4	1.657928	25	1.703279	40	1.644067	80	1.537194		
Toluene-d8	1	0.9286858	3	1.007276	5	1.104556	8	1.106748	10	1.086221		

INITIAL CALIBRATION DATA (Continued)

EPA 8260C

Laboratory:	ENCO Orlando	SDG:	1110003
Client:	Empirical Laboratories, LLC (EM014)	Project:	Navy Fuel Depot CTO JM46
Calibration:	1106015	Instrument:	OVGCMS4
Matrix:	Water	Calibration Date:	06/06/11 14:20

Compound	Mean RF	RF RSD	Mean RT	RT RSD	Linear r	Quad COD	LIMIT	Q
1,4-Dioxane	1.615359	4.698523	12.2868	0.1765788			15	
Toluene-d8	1.046697	7.39985	12.794	1.807729E-02			15	

SECOND-SOURCE CALIBRATION VERIFICATION

EPA 8260C

Laboratory: ENCO Orlando

SDG: 1110003

Client: Empirical Laboratories, LLC (EM014)

Project: Navy Fuel Depot CTO JM46

Calibration: 1106015

Laboratory ID: AA15332-SCV1

Sequence: AA15332

Standard ID: A1E0109

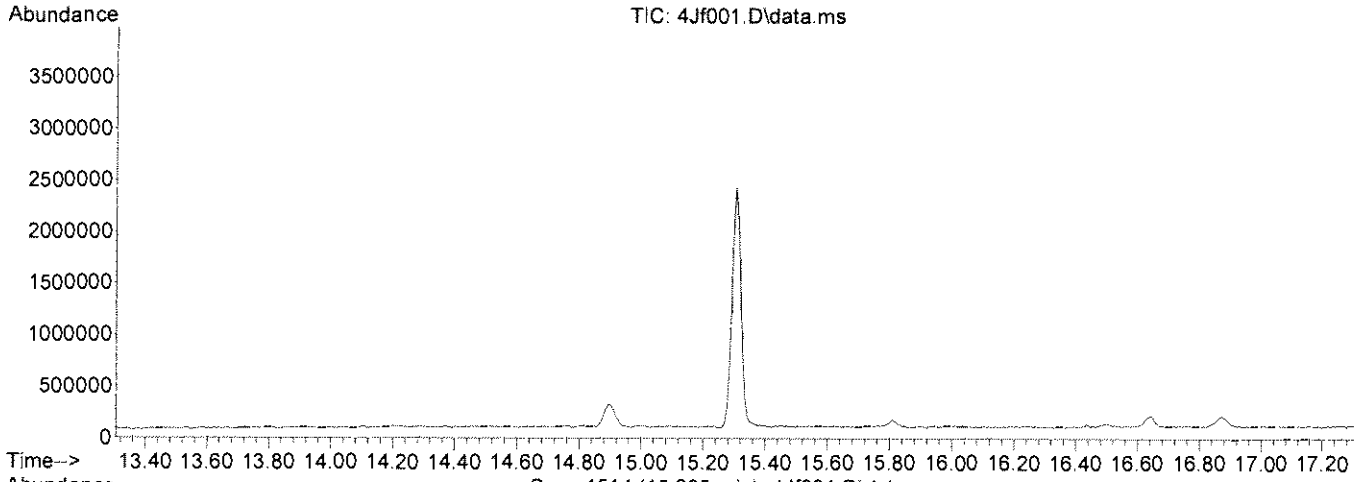
ANALYTE	EXPECTED (ug/L)	FOUND (ug/L)	% DRIFT	QC LIMIT
Toluene-d8	5.00	5.06	1.1	20.00
1,4-Dioxane	25.0	25.7	2.8	20.00

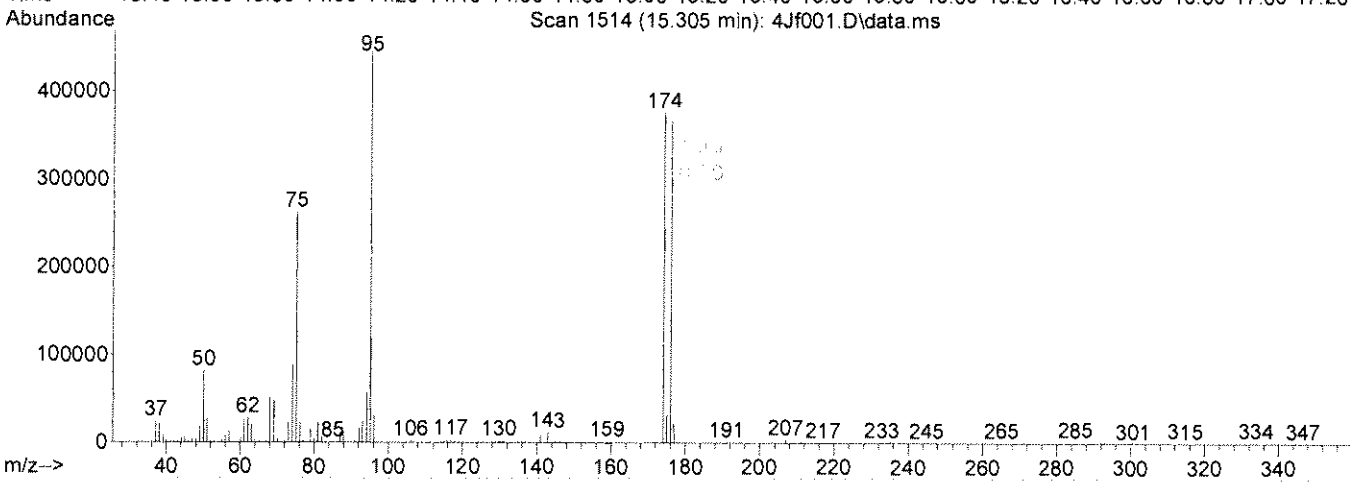
* Values outside of QC limits

Data Path : C:\msdchem\1\DATA\101111\
Data File : 4Jf001.D
Acq On : 11 Oct 2011 14:33
Operator : kat
Sample : bfb 50 ng
Misc :
ALS Vial : 1 Sample Multiplier: 1

Integration File: rteint.p

Method : C:\msdchem\1\METHODS\METHODS\D1106015.M
Title : ENCO SOPVGCMS/10;element cal 1106015
Last Update : Mon Jun 13 12:21:39 2011





Spectrum Information: Scan 1514

Target Mass	Rel. to Mass	Lower Limit%	Upper Limit%	Rel. Abn%	Raw Abn	Result Pass/Fail
50	95	15	40	18.4	82112	PASS
75	95	30	60	58.9	262976	PASS
95	95	100	100	100.0	446144	PASS
96	95	5	9	7.1	31840	PASS
173	174	0.00	2	0.0	0	PASS
174	95	50	100	84.5	376896	PASS
175	174	5	9	8.5	31904	PASS
176	174	95	101	97.7	368128	PASS
177	176	5	9	6.1	22288	PASS

KAT 10-11-11

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\DATA\101111\
Data File : 4Jf002.D
Acq On : 11 Oct 2011 15:05
Operator : kat
Sample : 25 ppb cvs
Misc :
ALS Vial : 2 Sample Multiplier: 1
InstName : OVGCMS4

Quant Time: Oct 12 10:05:26 2011
Quant Method : C:\msdchem\1\METHODS\METHODS\D1106015.M
Quant Title : ENCO SOPVGCMS/10;element cal 1106015
QLast Update : Mon Jun 13 12:21:39 2011
Response via : Initial Calibration

KAT 10-12-11

Internal Standards	R.T.	QIon	Response	Conc Units	Dev(Min)
1) 1,4-Difluorobenzene(IS)	11.498	114	6370213	5.000 ug/L	0.00
4) 1,4-Dioxane-d8	12.181	64	131059	50.000 ug/l	-0.07
System Monitoring Compounds					
2) D8-Toluene	12.797	98	7320106	5.489 ug/L	0.00
Spiked Amount 5.000	Range 79 - 127		Recovery = 109.780%		
Target Compounds					Qvalue
3) D8-Toluene	12.797	98	7320106	5.489 ug/L	95
5) 1,4-Dioxane	12.224	88	107822	25.465 ug/l #	66

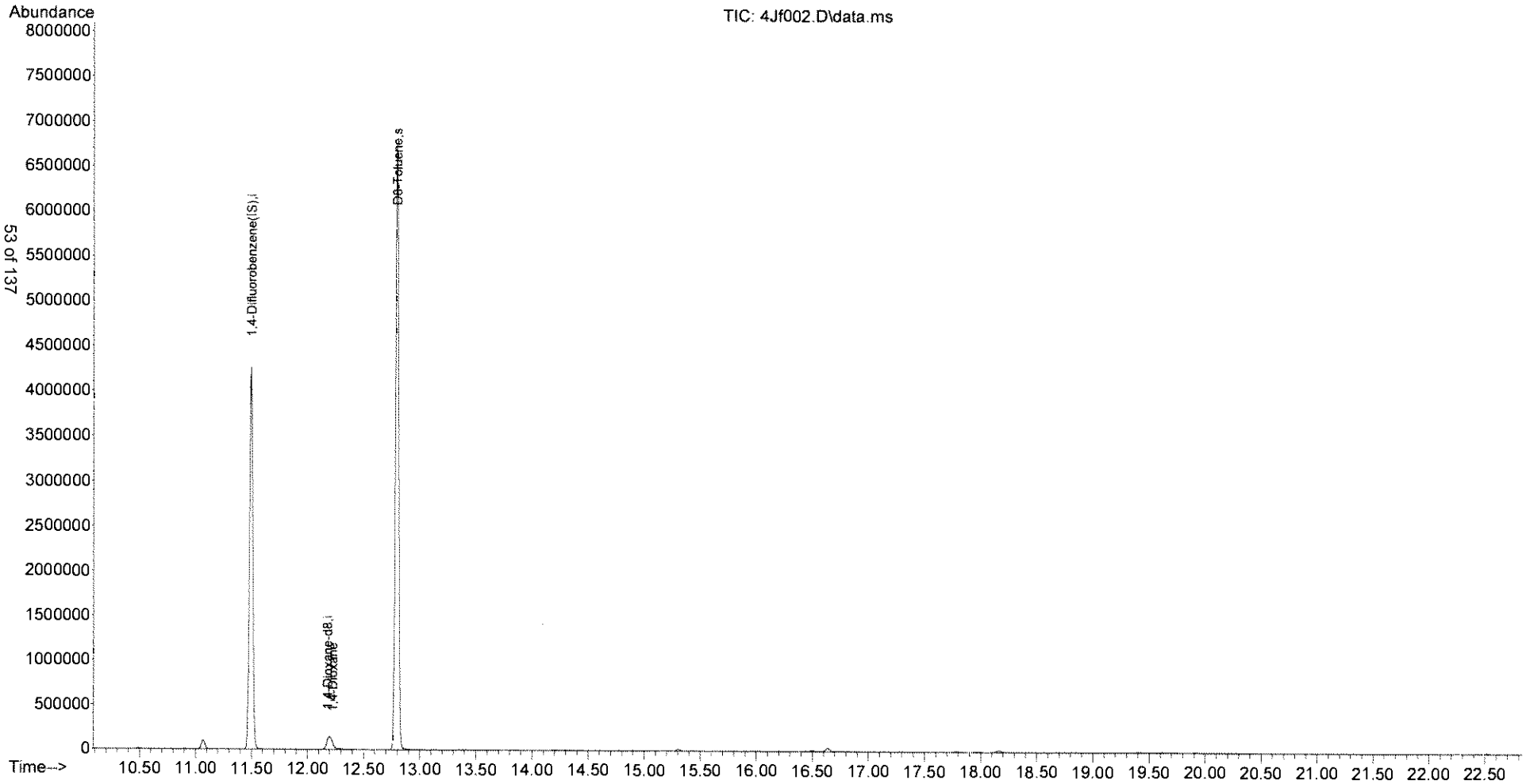
(#) = qualifier out of range (m) = manual integration (+) = signals summed

± 20%

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\DATA\101111\
Data File : 4Jf002.D
Acq On : 11 Oct 2011 15:05
Operator : kat
Sample : 25 ppb cvs
Misc :
ALS Vial : 2 Sample Multiplier: 1
InstName : OVGCMS4

Quant Time: Oct 12 10:05:26 2011
Quant Method : C:\msdchem\1\METHODS\METHODS\D1106015.M
Quant Title : ENCO SOPVGCMS/10;element cal 1106015
QLast Update : Mon Jun 13 12:21:39 2011
Response via : Initial Calibration

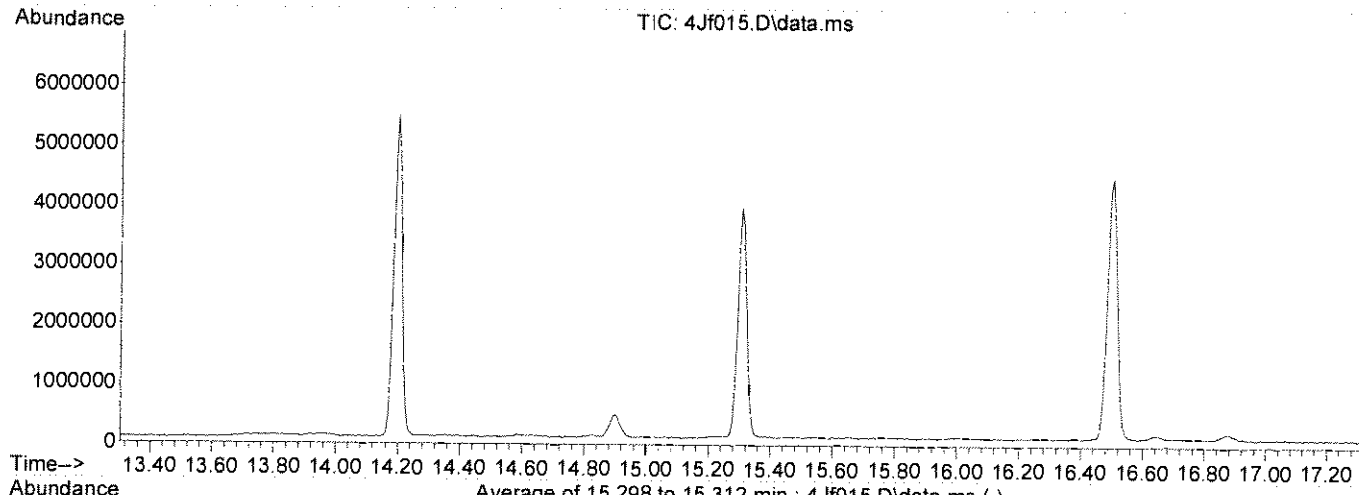


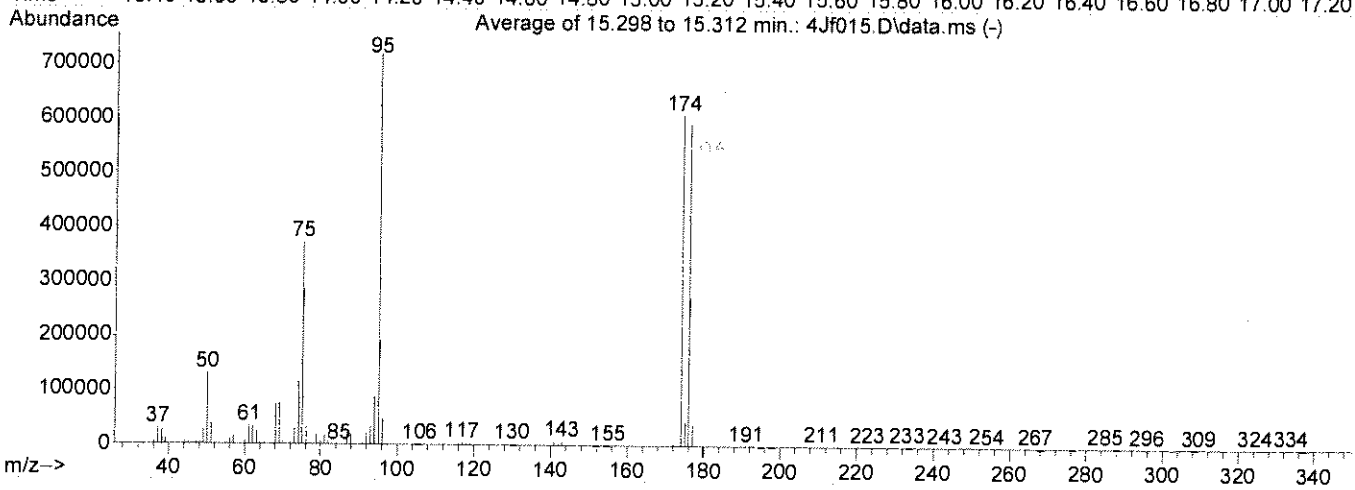
D1106015.M Wed Oct 12 10:27:32 2011

Data Path : C:\msdchem\1\DATA\101111\
Data File : 4Jf015.D
Acq On : 12 Oct 2011 11:14
Operator : kat
Sample : bfb 50 ng
Misc :
ALS Vial : 15 Sample Multiplier: 1

Integration File: rteint.p

Method : C:\msdchem\1\METHODS\METHODS\D1106015.M
Title : ENCO SOPVGCMS/10;element cal 1106015
Last Update : Mon Jun 13 12:21:39 2011





AutoFind: Scans 1513, 1514, 1515; Background Corrected with Scan 1504

Target Mass	Rel. to Mass	Lower Limit%	Upper Limit%	Rel. Abn%	Raw Abn	Result Pass/Fail
50	95	15	40	18.2	131101	PASS
75	95	30	60	51.7	371940	PASS
95	95	100	100	100.0	719466	PASS
96	95	5	9	6.7	47987	PASS
173	174	0.00	2	0.2	1178	PASS
174	95	50	100	84.7	609450	PASS
175	174	5	9	7.5	45544	PASS
176	174	95	101	97.1	591472	PASS
177	176	5	9	6.6	38968	PASS

KT 10/12/11

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\DATA\101111\
Data File : 4Jf016.D
Acq On : 12 Oct 2011 11:43
Operator : kat
Sample : 25 ppb cvs
Misc :
ALS Vial : 16 Sample Multiplier: 1
InstName : OVGCMS4

Quant Time: Oct 12 12:13:19 2011
Quant Method : C:\msdchem\1\METHODS\METHODS\D1106015.M
Quant Title : ENCO SOPVGCMS/10;element cal 1106015
QLast Update : Mon Jun 13 12:21:39 2011
Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc Units	Dev(Min)
1) 1,4-Difluorobenzene(IS)	11.498	114	6312243	5.000 ug/L	0.00
4) 1,4-Dioxane-d8	12.175	64	99838	50.000 ug/l	-0.08
System Monitoring Compounds					
2) D8-Toluene	12.797	98	7355712	5.567 ug/L	0.00
Spiked Amount 5.000	Range 79 - 127		Recovery	= 111.340%	
Target Compounds					Qvalue
3) D8-Toluene	12.797	98	7355712	5.567 ug/L	95
5) 1,4-Dioxane	12.218	88	85770	26.591 ug/l #	83

(#) = qualifier out of range (m) = manual integration (+) = signals summed

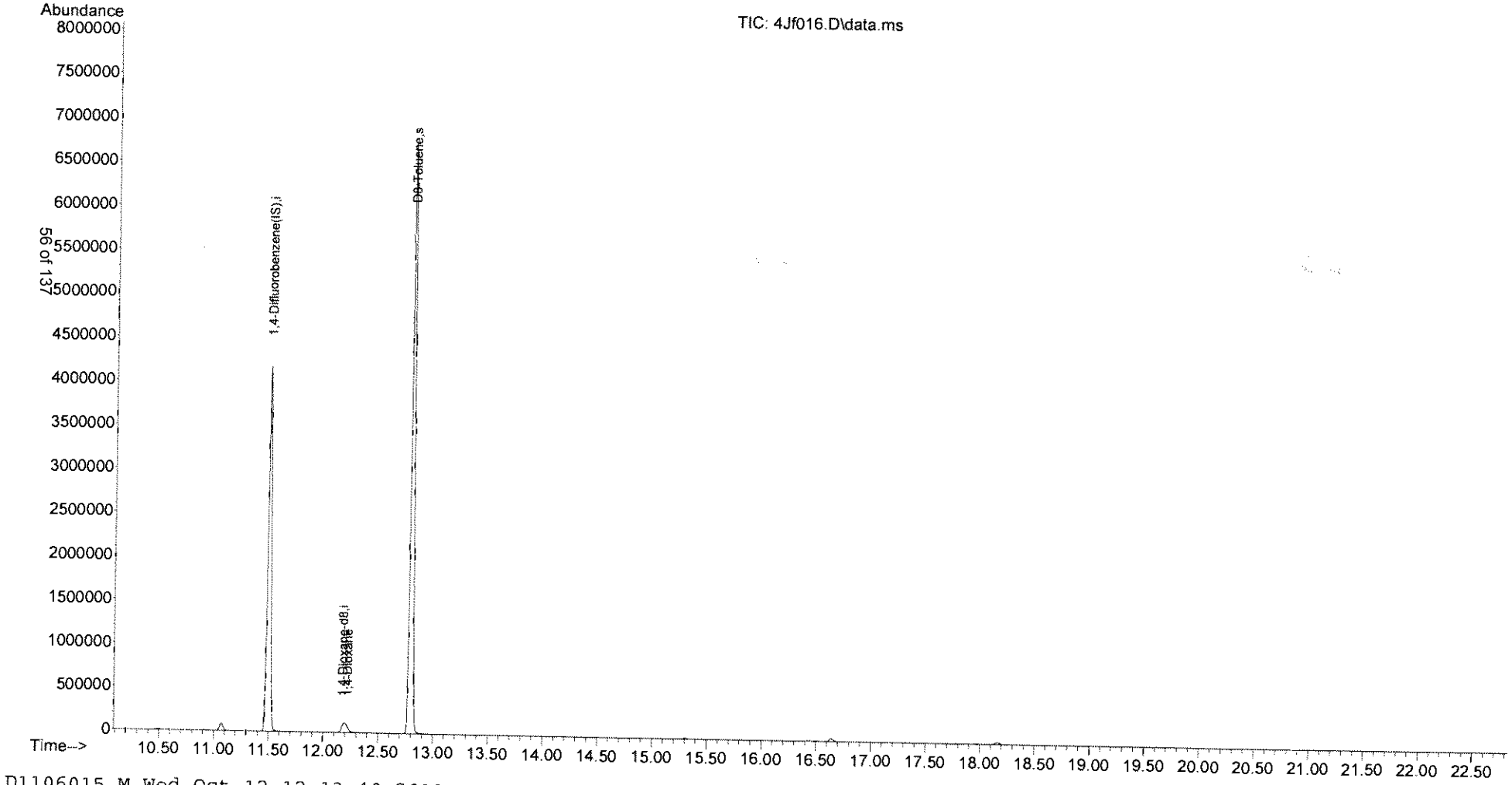
KT 10.12.11

± 20%

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\DATA\101111\
Data File : 4Jf016.D
Acq On : 12 Oct 2011 11:43
Operator : kat
Sample : 25 ppb cvs
Misc :
ALS Vial : 16 Sample Multiplier: 1
InstName : OVGCMS4

Quant Time: Oct 12 12:13:19 2011
Quant Method : C:\msdchem\1\METHODS\METHODS\D1106015.M
Quant Title : ENCO SOPVGCMS/10;element cal 1106015
QLast Update : Mon Jun 13 12:21:39 2011
Response via : Initial Calibration



D1106015.M Wed Oct 12 12:13:40 2011

ANALYSIS SEQUENCE

AA15332

Instrument: OVGCMS4

Calibration ID: 1106015

Lab Number	Analysis	Container	Order	Position	STD ID	ISTD ID	Client
AA15332-TUN1	QC		1		A1D0342		
AA15332-ICB1	QC		2			A1D0551	
AA15332-CAL1	QC		3		A1E0104	A1D0551	
AA15332-CAL2	QC		4		A1E0105	A1D0551	
AA15332-CAL3	QC		5		A1E0106	A1D0551	
AA15332-CAL4	QC		6		A1E0107	A1D0551	
AA15332-CAL5	QC		7		A1E0108	A1D0551	
AA15332-TUN2	QC		8		A1D0342		
AA15332-SCV1	QC		9		A1E0109	A1D0551	

Samples Loaded By _____ Date _____

Data Processed By _____ Date _____

Internal Standards	CVS RT	-0.5	0.5
1,4-dichlorobenzene	11.50	11.00	12.00
1,4-dioxane-d8	12.25	11.75	12.75

CVS = 3dn011

Internal Standard	CVS Response	50%	200%
1,4-Difluorobenzene	5553767	2776884	11107534
1,4-dioxane-d8	191008	95504	382016

KT
060911.

ANALYSIS SEQUENCE

AA15332

Instrument: OVGCMS4

Calibration ID: UNASSIGNED

Lab Number	Analysis	Container	Order	Position	STD ID	ISTD ID	Client
AA15332-TUN1	QC		1		A1D0342		
AA15332-ICB1	QC		2			A1D0551	
AA15332-CAL1	QC		3		A1E0104	A1D0551	
AA15332-CAL2	QC		4		A1E0105	A1D0551	
AA15332-CAL3	QC		5		A1E0106	A1D0551	
AA15332-CAL4	QC		6		A1E0107	A1D0551	
AA15332-CAL5	QC		7		A1E0108	A1D0551	
AA15332-SCV1	QC		8		A1E0109	A1D0551	

amples Loaded By _____ Date _____

Data Processed By _____ Date _____

Response Factor Report OVGCMS4

Method Path : C:\msdchem\1\METHODS\METHODS\
Method File : D1106015.M
Title : ENCO SOPVGCMS/10;element cal 1106015
Last Update : Tue Jun 07 12:11:55 2011
Response Via : Initial Calibration

Calibration Files
2 =4FA003.D 4 =4FA004.D 25 =4FA005.D 40 =4FA006.D 80 =4FA007.D

		Compound	2	4	25	40	80	Avg	%RSD
1)	i	1,4-Difluorobenzen...	----------ISTD----------						
2)	s	D8-Toluene	0.929	1.007	1.105	1.107	1.086	1.047	7.40
3)		D8-Toluene	0.929	1.007	1.105	1.107	1.086	1.047	7.40
4)	i	1,4-Dioxane-d8	----------ISTD----------						
5)		1,4-Dioxane	1.534	1.658	1.703	1.644	1.537	1.615	4.70

(#) = Out of Range

KT06011

CC ISTD Areas

CC Data File : C:\msdchem\1\DATA\060611\4FA005.D
Date Acquired: 6 Jun 2011 17:58

ISTD Name	Response
1,4-Difluorobenzene(IS)	5553770
1,4-Dioxane-d8	191008

Surrogates

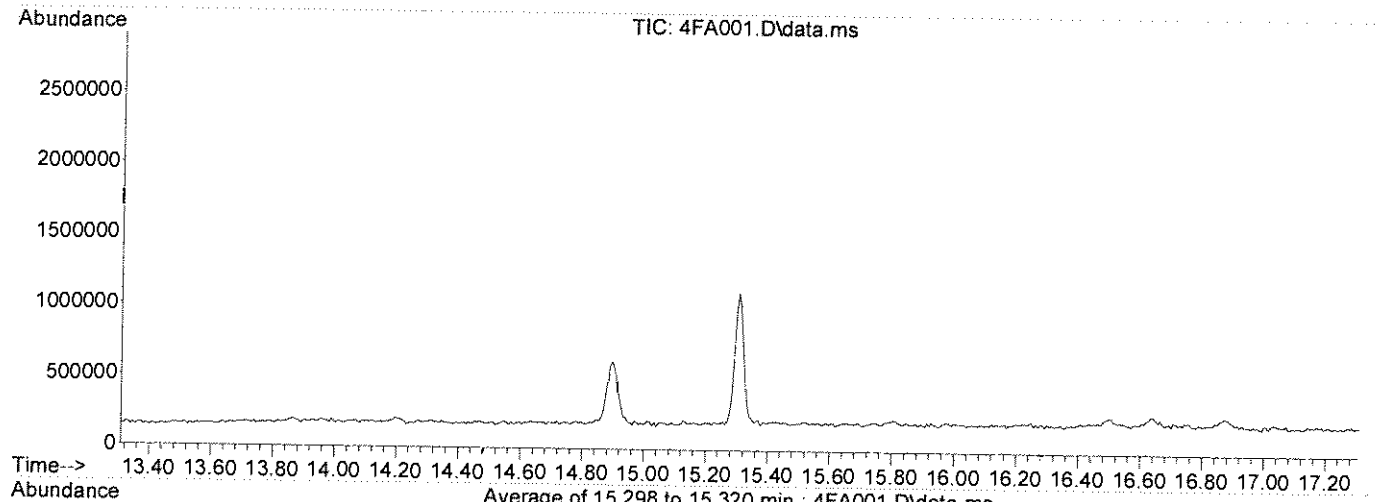
D8-Toluene

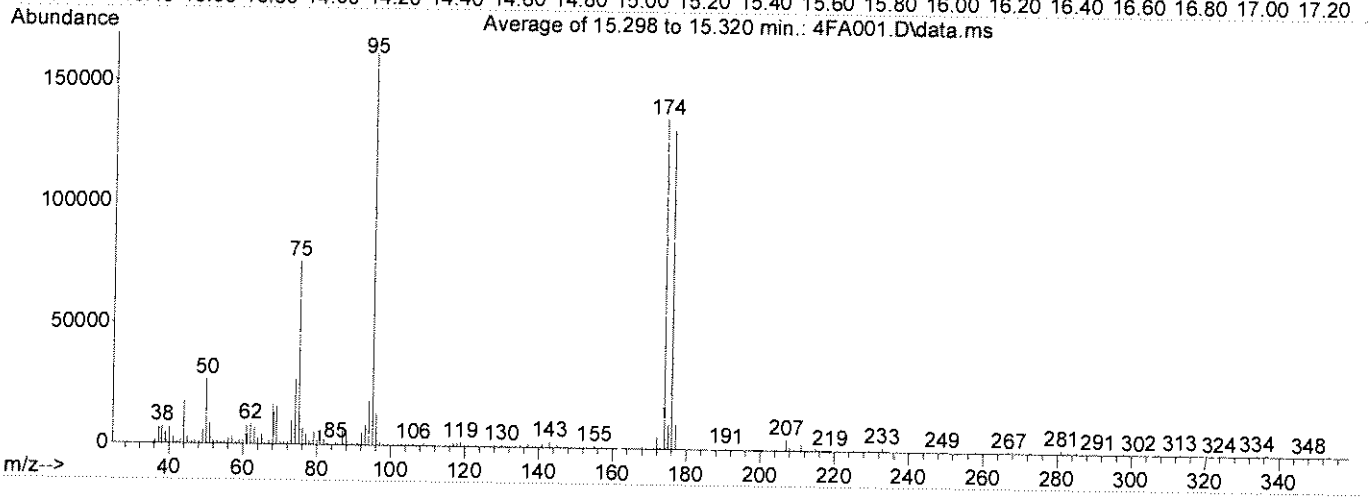
BFB

Data Path : C:\msdchem\1\DATA\060611\
Data File : 4FA001.D
Acq On : 6 Jun 2011 15:49
Operator : kat
Sample : BFB 50ng
Misc :
ALS Vial : 1 Sample Multiplier: 1

Integration File: rteint.p

Method : C:\msdchem\1\METHODS\METHODS\D1106015.M
Title : ENCO SOPVGCMS/10;element cal 1106015
Last Update : Tue Jun 07 11:53:03 2011





Spectrum Information: Average of 15.298 to 15.320 min.

Target Mass	Rel. to Mass	Lower Limit%	Upper Limit%	Rel. Abn%	Raw Abn	Result Pass/Fail
50	95	15	40	16.6	26818	PASS
75	95	30	60	46.8	75742	PASS
95	95	100	100	100.0	161788	PASS
96	95	5	9	8.2	13219	PASS
173	174	0.00	2	0.5	650	PASS
174	95	50	100	84.3	136366	PASS
175	174	5	9	7.6	10334	PASS
176	174	95	101	96.2	131138	PASS
177	176	5	9	7.6	10001	PASS

KT 060911

Quantitation Report (Not Reviewed)

Data Path : C:\msdchem\1\DATA\060611\
Data File : 4FA002.D
Acq On : 6 Jun 2011 16:18
Operator : kat
Sample : ICB
Misc :
ALS Vial : 2 Sample Multiplier: 1
InstName : OVGCMS4

Quant Time: Jun 07 12:08:03 2011
Quant Method : C:\msdchem\1\METHODS\METHODS\D1106015.M
Quant Title : ENCO SOPVGCMS/10;element cal 1106015
QLast Update : Tue Jun 07 11:53:03 2011
Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc Units	Dev(Min)
1) 1,4-Difluorobenzene(IS)	11.497	114	4709850	5.000 ug/L	0.00
4) 1,4-Dioxane-d8	12.181	64	98740	50.000 ug/l	-0.07
System Monitoring Compounds					
2) D8-Toluene	12.800	98	6188732	6.277 ug/L	0.00
Spiked Amount 5.000			Recovery	= 125.540%	
Target Compounds					Qvalue
3) D8-Toluene	12.800	98	6188732	6.277 ug/L	95
5) 1,4-Dioxane	12.209	88	940	0.295 ug/l #	1

(#) = qualifier out of range (m) = manual integration (+) = signals summed

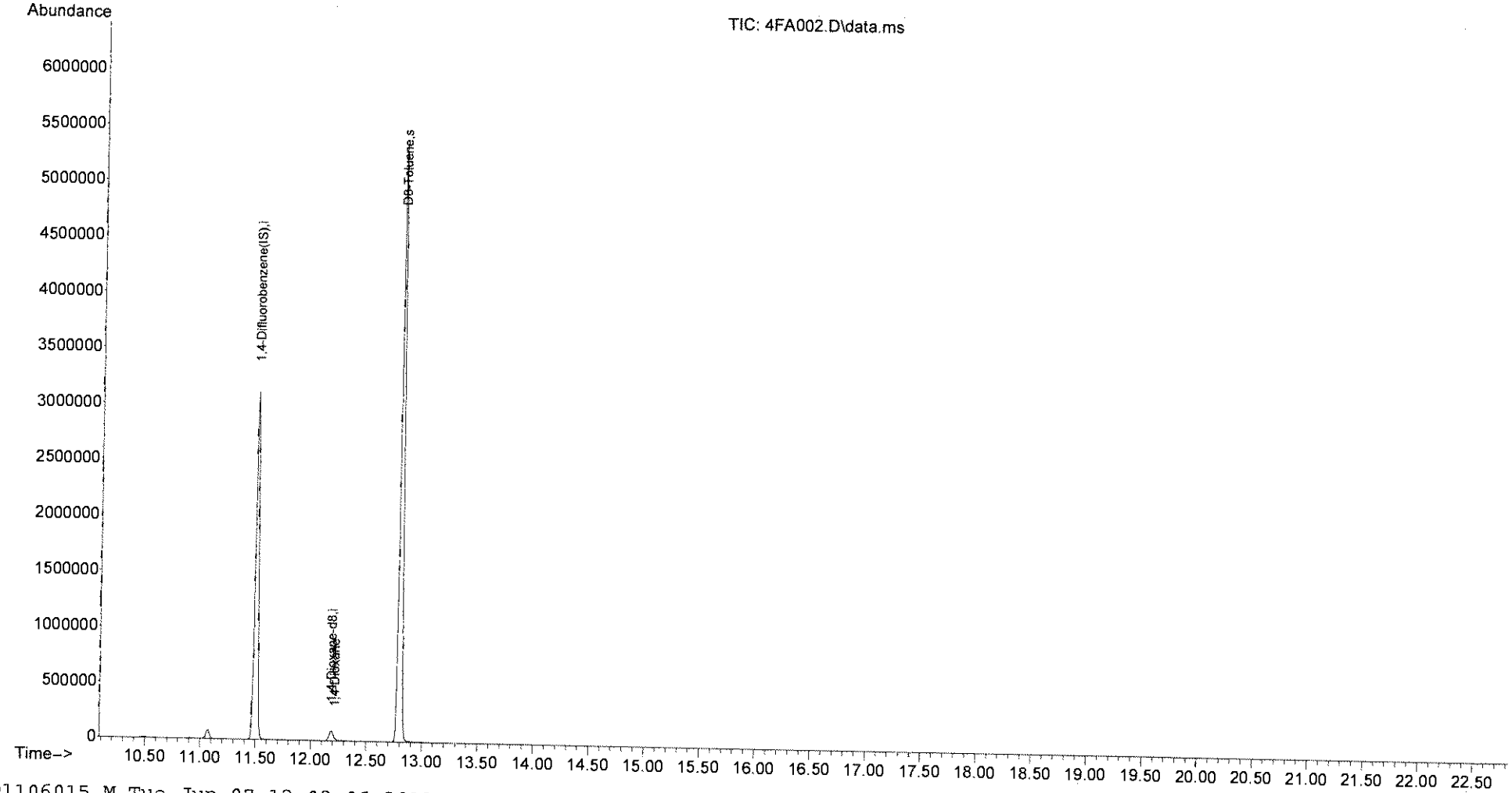
K1060911

1106015.M Tue Jun 07 12:08:05 2011

Quantitation Report (Not Reviewed)

Data Path : C:\msdchem\1\DATA\060611\
Data File : 4FA002.D
Acq On : 6 Jun 2011 16:18
Operator : kat
Sample : ICB
Misc :
ALS Vial : 2 Sample Multiplier: 1
InstName : OVGCMS4

Quant Time: Jun 07 12:08:03 2011
Quant Method : C:\msdchem\1\METHODS\METHODS\D1106015.M
Quant Title : ENCO SOPVGCMS/10;element cal 1106015
QLast Update : Tue Jun 07 11:53:03 2011
Response via : Initial Calibration



Quantitation Report (Not Reviewed)

Data Path : C:\msdchem\1\DATA\060611\
Data File : 4FA003.D
Acq On : 6 Jun 2011 16:51
Operator : kat
Sample : 2 ppb std
Misc :
ALS Vial : 3 Sample Multiplier: 1
InstName : OVGCMS4

Quant Time: Jun 07 12:08:28 2011
Quant Method : C:\msdchem\1\METHODS\METHODS\D1106015.M
Quant Title : ENCO SOPVGCMS/10;element cal 1106015
QLast Update : Tue Jun 07 11:53:03 2011
Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc Units	Dev(Min)
1) 1,4-Difluorobenzene(IS)	11.497	114	5546634	5.000 ug/L	0.00
4) 1,4-Dioxane-d8	12.253	64	258517	50.000 ug/l	0.00
System Monitoring Compounds					
2) D8-Toluene	12.794	98	1030216	0.887 ug/L	0.00
Spiked Amount 5.000			Recovery	= 17.740%	
Target Compounds					Qvalue
3) D8-Toluene	12.794	98	1030216	0.887 ug/L	95
5) 1,4-Dioxane	12.267	88	15866	1.900 ug/l #	1

(#) = qualifier out of range (m) = manual integration (+) = signals summed

K060911

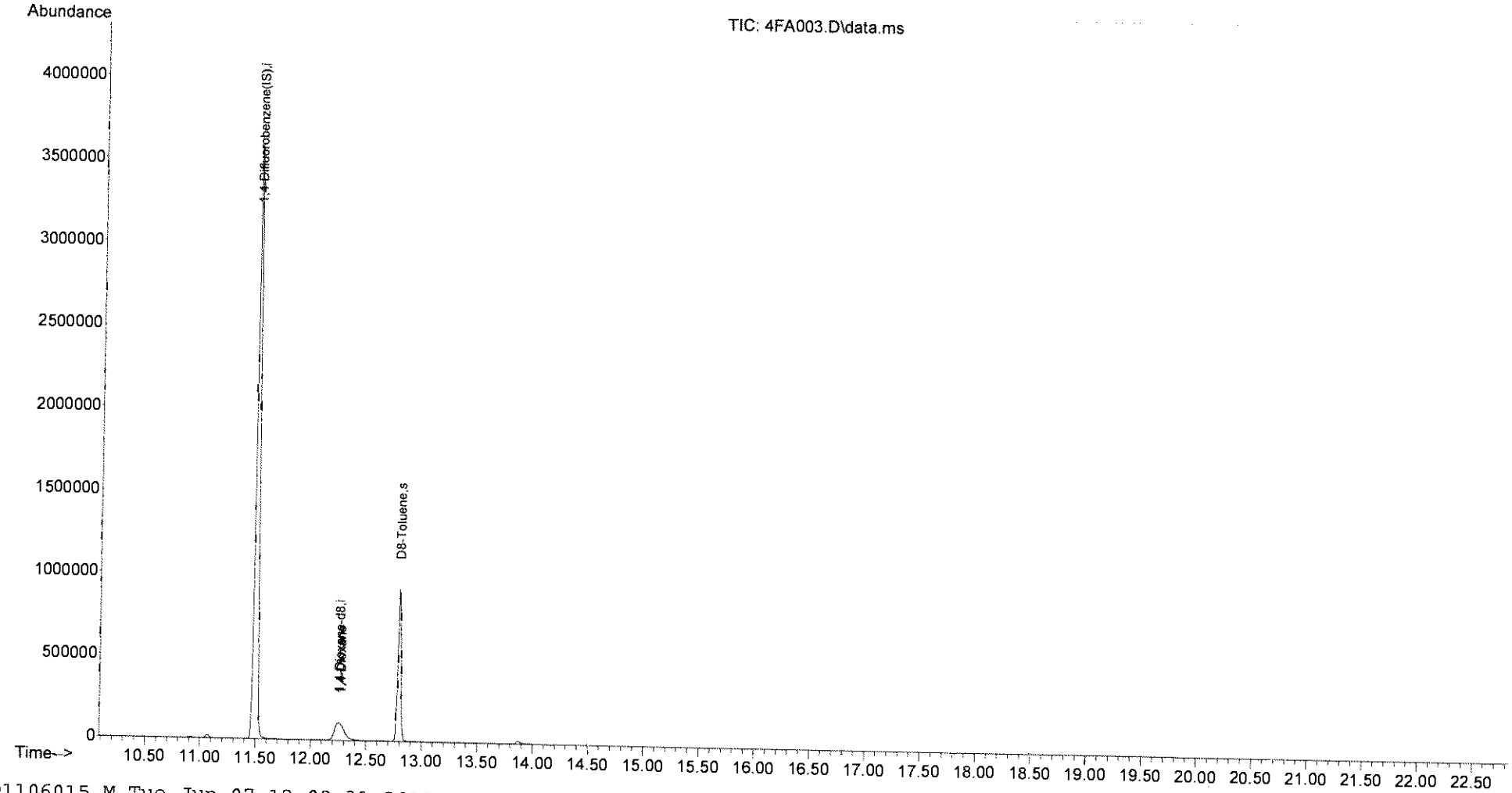
1106015.M Tue Jun 07 12:08:29 2011

Page: 1

Quantitation Report (Not Reviewed)

Data Path : C:\msdchem\1\DATA\060611\
Data File : 4FA003.D
Acq On : 6 Jun 2011 16:51
Operator : kat
Sample : 2 ppb std
Misc :
ALS Vial : 3 Sample Multiplier: 1
InstName : OVGCMS4

Quant Time: Jun 07 12:08:28 2011
Quant Method : C:\msdchem\1\METHODS\METHODS\D1106015.M
Quant Title : ENCO SOPVGCMS/10;element cal 1106015
QLast Update : Tue Jun 07 11:53:03 2011
Response via : Initial Calibration



Quantitation Report (Not Reviewed)

Data Path : C:\msdchem\1\DATA\060611\
Data File : 4FA004.D
Acq On : 6 Jun 2011 17:24
Operator : kat
Sample : 4 ppb std
Misc :
ALS Vial : 4 Sample Multiplier: 1
InstName : OVGCMS4

Quant Time: Jun 07 12:08:37 2011
Quant Method : C:\msdchem\1\METHODS\METHODS\D1106015.M
Quant Title : ENCO SOPVGCMS/10;element cal 1106015
QLast Update : Tue Jun 07 11:53:03 2011
Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc Units	Dev(Min)
1) 1,4-Difluorobenzene(IS)	11.497	114	5459785	5.000 ug/L	0.00
4) 1,4-Dioxane-d8	12.253	64	236794	50.000 ug/l	0.00
System Monitoring Compounds					
2) D8-Toluene	12.794	98	3299707	2.887 ug/L	0.00
Spiked Amount 5.000			Recovery	= 57.740%	
Target Compounds					Qvalue
3) D8-Toluene	12.794	98	3299707	2.887 ug/L	95
5) 1,4-Dioxane	12.281	88	31407	4.105 ug/l #	1

(#) = qualifier out of range (m) = manual integration (+) = signals summed

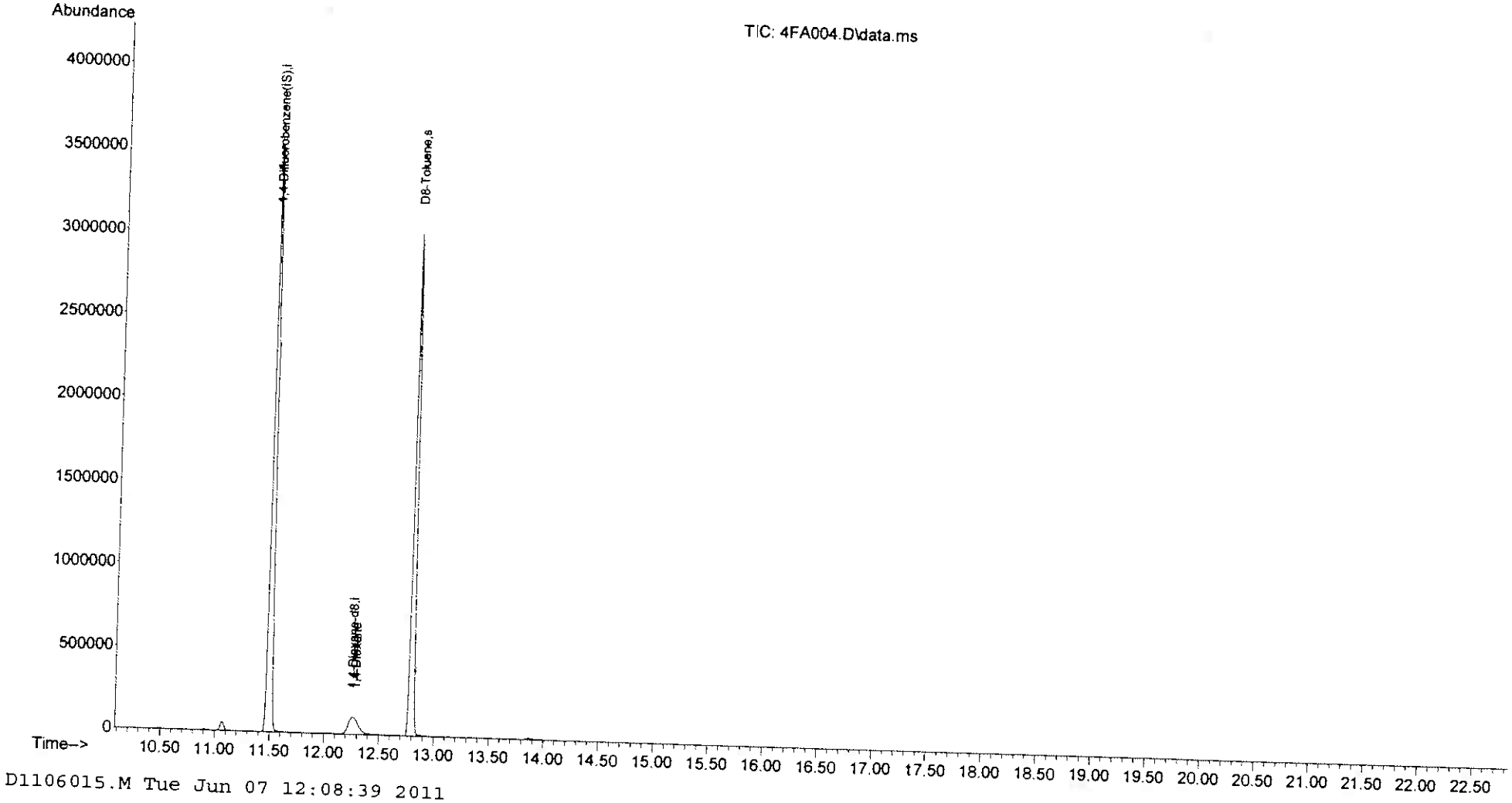
K1060611

1106015.M Tue Jun 07 12:08:38 2011

Quantitation Report (Not Reviewed)

Data Path : C:\msdchem\1\DATA\060611\
Data File : 4FA004.D
Acq On : 6 Jun 2011 17:24
Operator : kat
Sample : 4 ppb std
Misc :
ALS Vial : 4 Sample Multiplier: 1
InstName : OVGCMS4

Quant Time: Jun 07 12:08:37 2011
Quant Method : C:\msdchem\1\METHODS\METHODS\D1106015.M
Quant Title : ENCO SOPVGCMS/10;element cal 1106015
QLast Update : Tue Jun 07 11:53:03 2011
Response via : Initial Calibration



Quantitation Report (Not Reviewed)

Data Path : C:\msdchem\1\DATA\060611\
Data File : 4FA005.D
Acq On : 6 Jun 2011 17:58
Operator : kat
Sample : 25 ppb std
Misc :
ALS Vial : 5 Sample Multiplier: 1
InstName : OVGCMS4

Quant Time: Jun 07 12:08:45 2011
Quant Method : C:\msdchem\1\METHODS\METHODS\D1106015.M
Quant Title : ENCO SOPVGCMS/10;element cal 1106015
QLast Update : Tue Jun 07 11:53:03 2011
Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc Units	Dev(Min)
1) 1,4-Difluorobenzene(IS)	11.498	114	5553767	5.000 ug/L	0.00
4) 1,4-Dioxane-d8	12.253	64	191008	50.000 ug/l	0.00
System Monitoring Compounds					
2) D8-Toluene	12.794	98	6134445	5.276 ug/L	0.00
Spiked Amount 5.000			Recovery	= 105.520%	
Target Compounds					Qvalue
3) D8-Toluene	12.794	98	6134445	5.276 ug/L	92
5) 1,4-Dioxane	12.281	88	162670	26.361 ug/l #	72

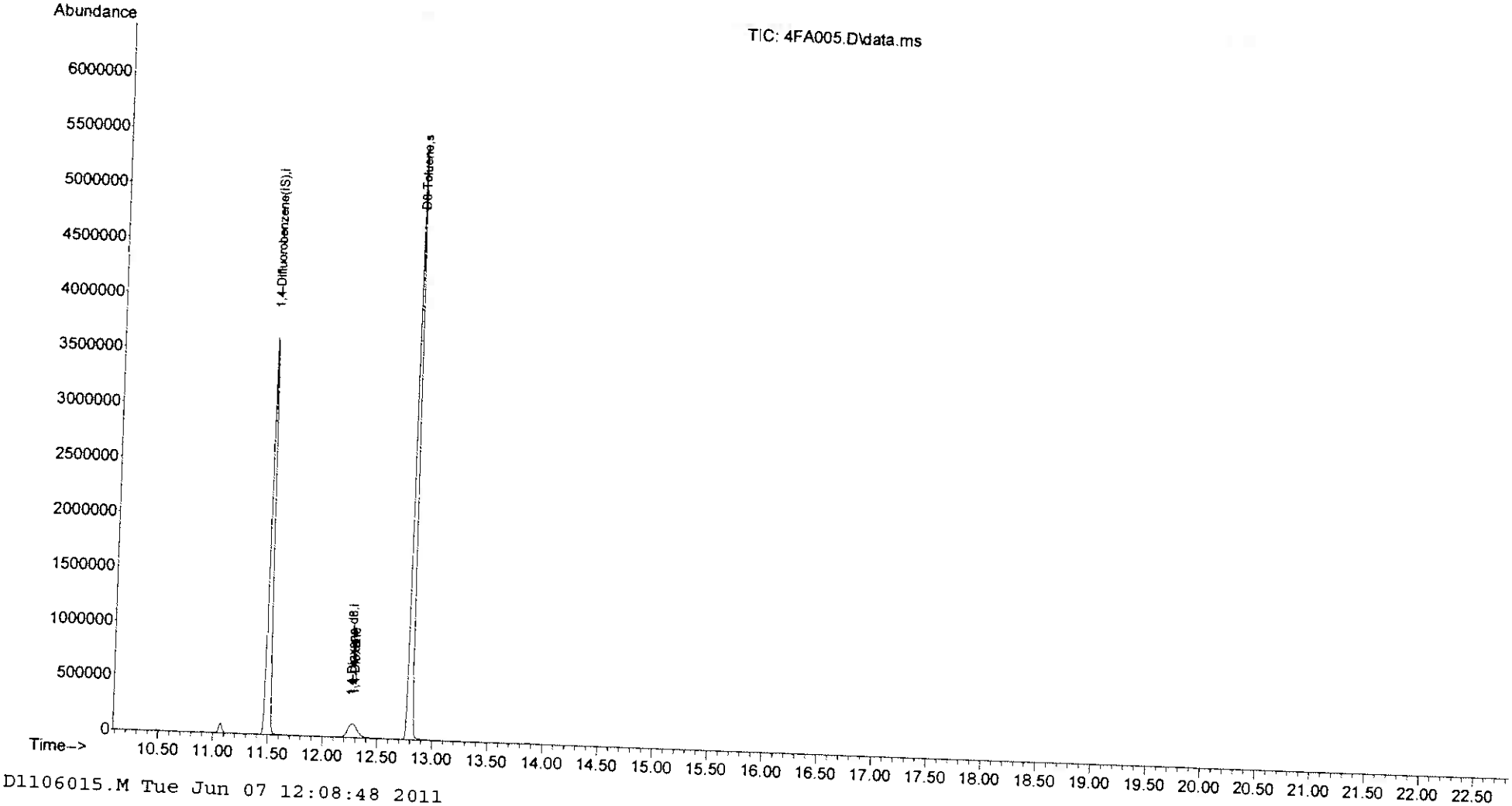
(#) = qualifier out of range (m) = manual integration (+) = signals summed

K7D060911

Quantitation Report (Not Reviewed)

Data Path : C:\msdchem\1\DATA\060611\
Data File : 4FA005.D
Acq On : 6 Jun 2011 17:58
Operator : kat
Sample : 25 ppb std
Misc :
ALS Vial : 5 Sample Multiplier: 1
InstName : OVGCMS4

Quant Time: Jun 07 12:08:45 2011
Quant Method : C:\msdchem\1\METHODS\METHODS\D1106015.M
Quant Title : ENCO SOPVGCMS/10;element cal 1106015
QLast Update : Tue Jun 07 11:53:03 2011
Response via : Initial Calibration



Quantitation Report (Not Reviewed)

Data Path : C:\msdchem\1\DATA\060611\
Data File : 4FA006.D
Acq On : 6 Jun 2011 18:34
Operator : kat
Sample : 40 ppb std
Misc :
ALS Vial : 6 Sample Multiplier: 1
InstName : OVGCMS4

Quant Time: Jun 07 12:08:53 2011
Quant Method : C:\msdchem\1\METHODS\METHODS\D1106015.M
Quant Title : ENCO SOPVGCMS/10;element cal 1106015
QLast Update : Tue Jun 07 11:53:03 2011
Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc Units	Dev(Min)
1) 1,4-Difluorobenzene(IS)	11.492	114	5515045	5.000 ug/L	0.00
4) 1,4-Dioxane-d8	12.253	64	247344	50.000 ug/l	0.00
System Monitoring Compounds					
2) D8-Toluene	12.794	98	9766024	8.459 ug/L	0.00
Spiked Amount 5.000			Recovery	= 169.180%	
Target Compounds					Qvalue
3) D8-Toluene	12.794	98	9766024	8.459 ug/L	93
5) 1,4-Dioxane	12.281	88	325320	40.711 ug/l #	69

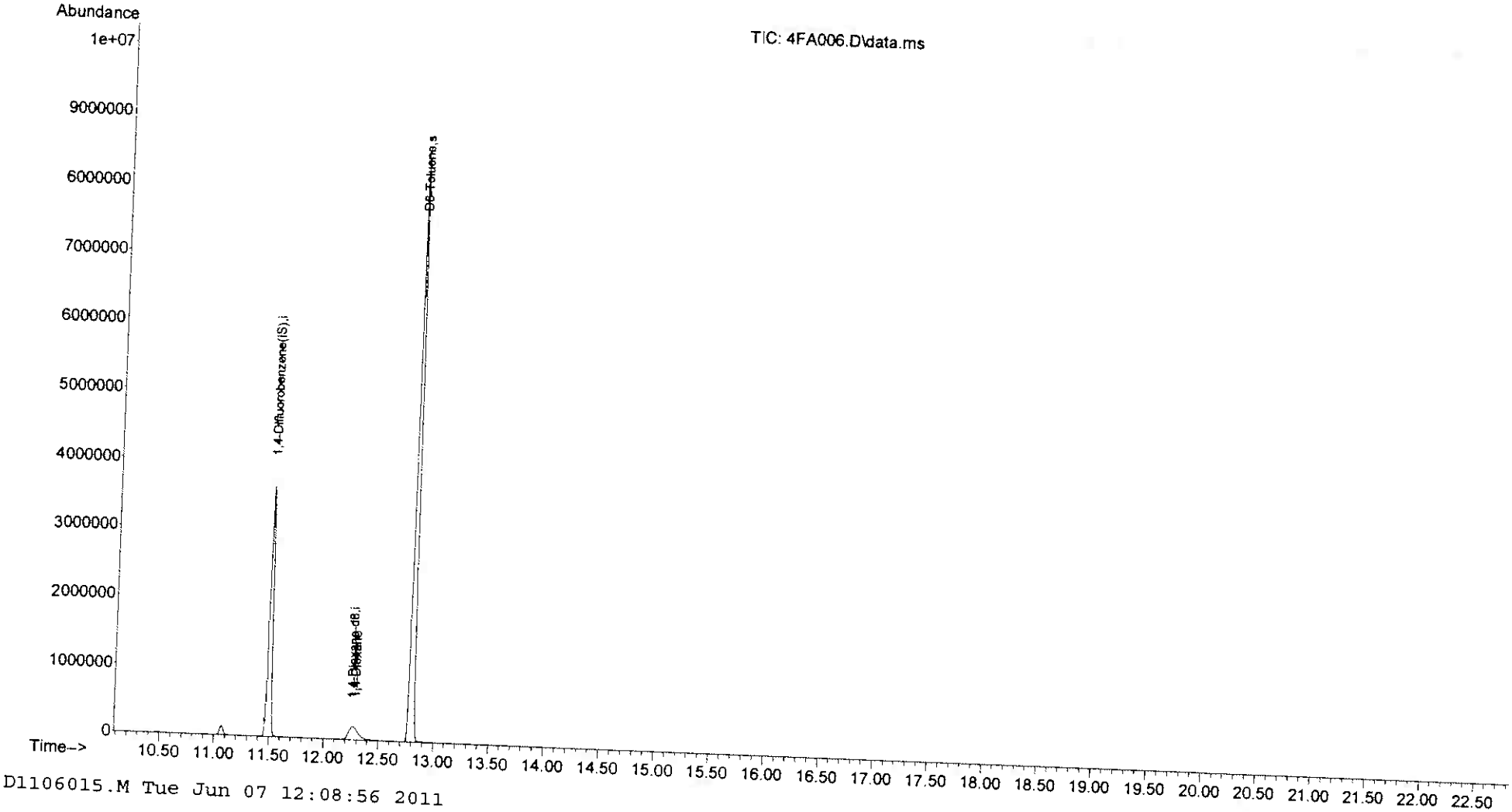
(#) = qualifier out of range (m) = manual integration (+) = signals summed

K 060911

Quantitation Report (Not Reviewed)

Data Path : C:\msdchem\1\DATA\060611\
Data File : 4FA006.D
Acq On : 6 Jun 2011 18:34
Operator : kat
Sample : 40 ppb std
Misc :
ALS Vial : 6 Sample Multiplier: 1
InstName : OVGCMS4

Quant Time: Jun 07 12:08:53 2011
Quant Method : C:\msdchem\1\METHODS\METHODS\D1106015.M
Quant Title : ENCO SOPVGCMS/10;element cal 1106015
QLast Update : Tue Jun 07 11:53:03 2011
Response via : Initial Calibration



Quantitation Report (Not Reviewed)

Data Path : C:\msdchem\1\DATA\060611\
Data File : 4FA007.D
Acq On : 6 Jun 2011 19:09
Operator : kat
Sample : 80 ppb std
Misc :
ALS Vial : 7 Sample Multiplier: 1
InstName : OVGCMS4

Quant Time: Jun 07 12:09:01 2011
Quant Method : C:\msdchem\1\METHODS\METHODS\D1106015.M
Quant Title : ENCO SOPVGCMS/10;element cal 1106015
QLast Update : Tue Jun 07 11:53:03 2011
Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc Units	Dev(Min)
1) 1,4-Difluorobenzene(IS)	11.492	114	5758591	5.000 ug/L	0.00
4) 1,4-Dioxane-d8	12.310	64	295410	50.000 ug/l	0.06
System Monitoring Compounds					
2) D8-Toluene	12.794	98	12510200	10.378 ug/L	0.00
Spiked Amount 5.000			Recovery	= 207.560%	
Target Compounds					Qvalue
3) D8-Toluene	12.794	98	12510200	10.378 ug/L	92
5) 1,4-Dioxane	12.324	88	726564	76.129 ug/l #	76

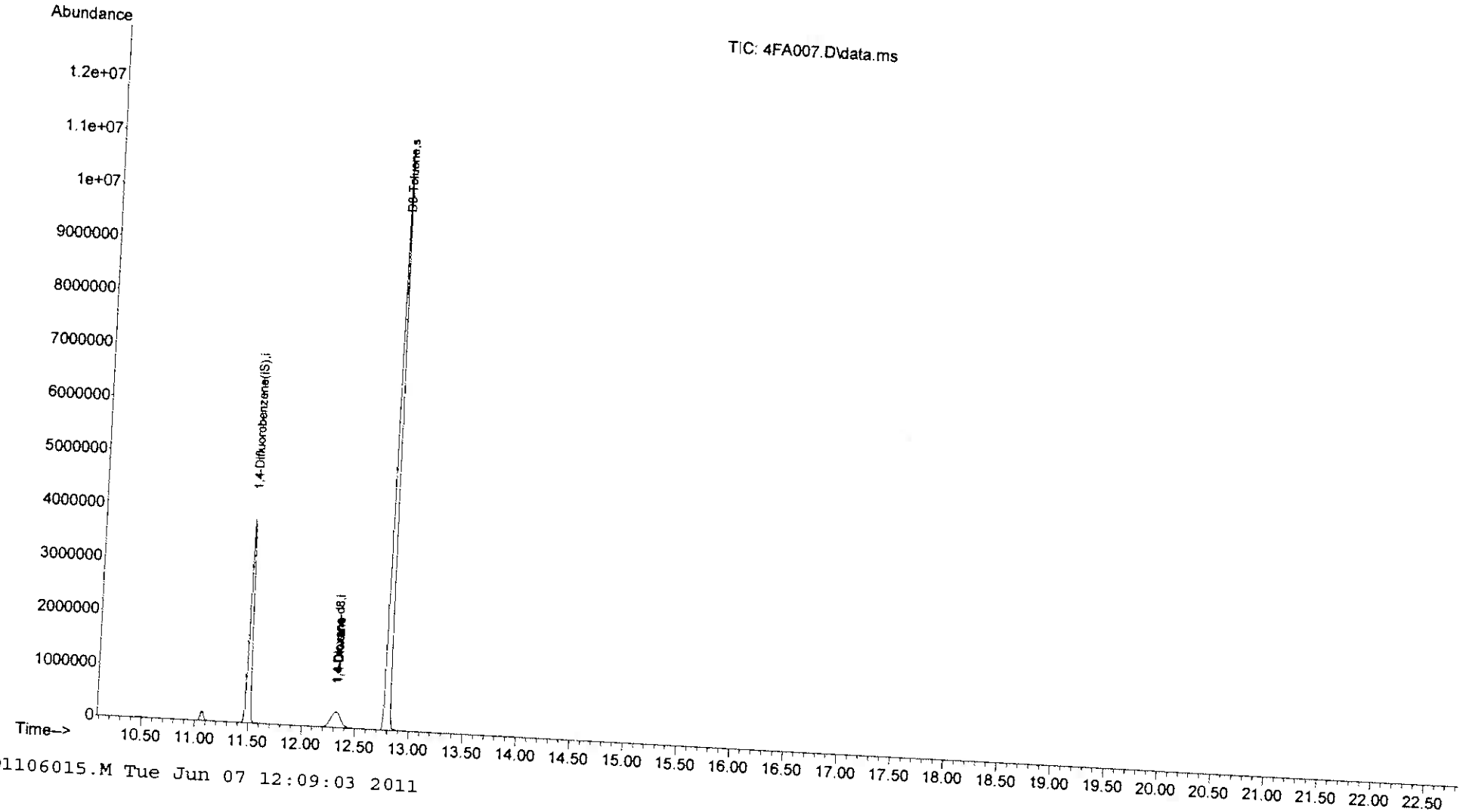
(#) = qualifier out of range (m) = manual integration (+) = signals summed

KT 060911

Quantitation Report (Not Reviewed)

Data Path : C:\msdchem\1\DATA\060611\
Data File : 4FA007.D
Acq On : 6 Jun 2011 19:09
Operator : kat
Sample : 80 ppb std
Misc :
ALS Vial : 7 Sample Multiplier: 1
InstName : OVGCMS4

Quant Time: Jun 07 12:09:01 2011
Quant Method : C:\msdchem\1\METHODS\METHODS\D1106015.M
Quant Title : ENCO SOPVGCMS/10;element cal 1106015
QLast Update : Tue Jun 07 11:53:03 2011
Response via : Initial Calibration



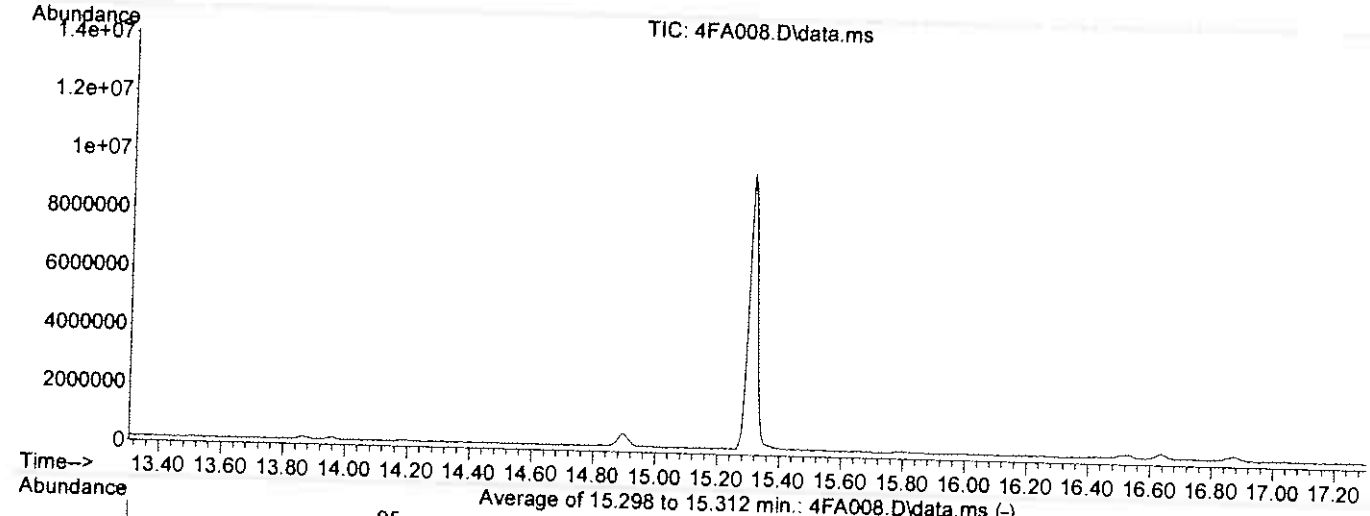
BFB

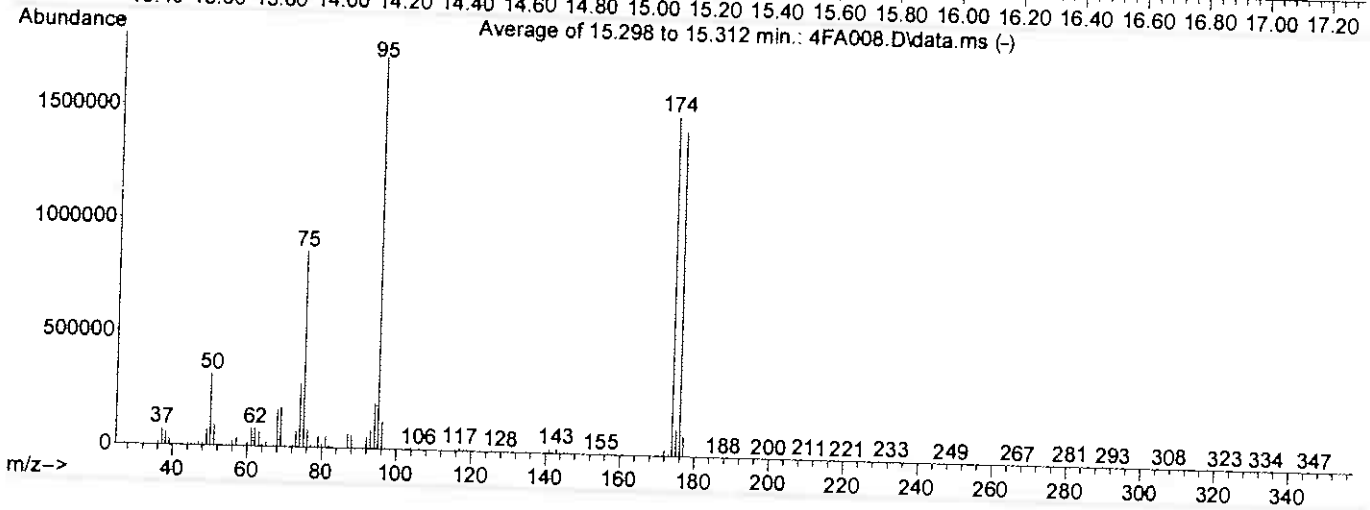
Data Path : C:\msdchem\1\DATA\060611\
Data File : 4FA008.D
Acq On : 7 Jun 2011 15:20
Operator : kat
Sample : bfb 50 ng
Misc :
ALS Vial : 8 Sample Multiplier: 1

Tune 2

Integration File: rteint.p

Method : C:\msdchem\1\METHODS\METHODS\D1106015.M
Title : ENCO SOPVGCMS/10;element cal 1106015
Last Update : Tue Jun 07 12:11:55 2011





AutoFind: Scans 1513, 1514, 1515; Background Corrected with Scan 1500

Target Mass	Rel. to Mass	Lower Limit%	Upper Limit%	Rel. Abn%	Raw Abn	Result Pass/Fail
50	95	15	40	18.3	315901	PASS
75	95	30	60	50.1	863995	PASS
95	95	100	100	100.0	1726235	PASS
96	95	5	9	7.0	120336	PASS
173	174	0.00	2	0.7	11113	PASS
174	95	50	100	86.8	1498794	PASS
175	174	5	9	7.6	113704	PASS
176	174	95	101	95.3	1427626	PASS
177	176	5	9	6.3	90039	PASS

KT 060911

D1106015.M Thu Jun 09 12:25:41 2011

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\DATA\060611\
Data File : 4FA009.D
Acq On : 7 Jun 2011 15:52
Operator : kat
Sample : blk
Misc :
ALS Vial : 9 Sample Multiplier: 1
InstName : OVGCMS4

Quant Time: Jun 09 12:26:01 2011
Quant Method : C:\msdchem\1\METHODS\METHODS\D1106015.M
Quant Title : ENCO SOPVGCMS/10;element cal 1106015
QLast Update : Tue Jun 07 12:11:55 2011
Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc Units	Dev(Min)
1) 1,4-Difluorobenzene(IS)	11.498	114	5163431	5.000 ug/L	0.00
4) 1,4-Dioxane-d8	12.233	64	149195	50.000 ug/l	-0.02
System Monitoring Compounds					
2) D8-Toluene	12.797	98	6084034	5.629 ug/L	0.00
Spiked Amount 5.000			Recovery	= 112.580%	
Target Compounds					Qvalue
3) D8-Toluene	12.797	98	6084034	5.629 ug/L	95
5) 1,4-Dioxane	0.000	88	0	N.D. d	

(#) = qualifier out of range (m) = manual integration (+) = signals summed

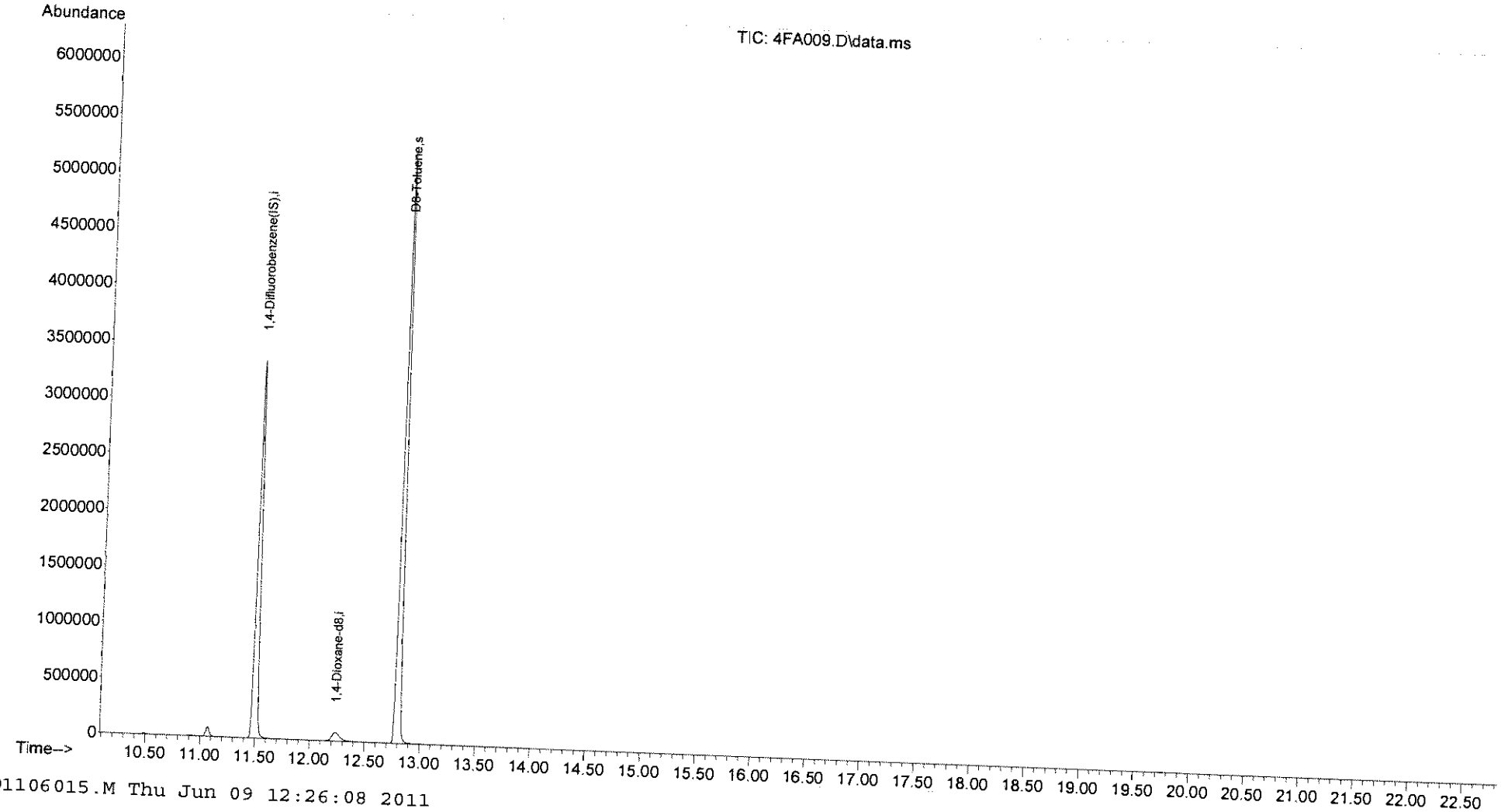
KD 060911

1106015.M Thu Jun 09 12:26:07 2011

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\DATA\060611\
Data File : 4FA009.D
Acq On : 7 Jun 2011 15:52
Operator : kat
Sample : blk
Misc :
ALS Vial : 9 Sample Multiplier: 1
InstName : OVGCMS4

Quant Time: Jun 09 12:26:01 2011
Quant Method : C:\msdchem\1\METHODS\METHODS\D1106015.M
Quant Title : ENCO SOPVGCMS/10;element cal 1106015
QLast Update : Tue Jun 07 12:11:55 2011
Response via : Initial Calibration



D1106015.M Thu Jun 09 12:26:08 2011

Quantitation Report (Not Reviewed)

Data Path : C:\msdchem\1\DATA\060611\
Data File : 4FA010.D
Acq On : 7 Jun 2011 16:25
Operator : kat
Sample : SCV 25ppb
Misc :
ALS Vial : 10 Sample Multiplier: 1
InstName : OVGCMS4

Quant Time: Jun 09 12:27:24 2011
Quant Method : C:\msdchem\1\METHODS\METHODS\D1106015.M
Quant Title : ENCO SOPVGCMS/10;element cal 1106015
QLast Update : Tue Jun 07 12:11:55 2011
Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc Units	Dev(Min)
1) 1,4-Difluorobenzene(IS)	11.497	114	5382604	5.000 ug/L	0.00
4) 1,4-Dioxane-d8	12.252	64	223770	50.000 ug/l	0.00
System Monitoring Compounds					
2) D8-Toluene	12.794	98	5696940	5.056 ug/L	0.00
Spiked Amount 5.000			Recovery	= 101.120%	
Target Compounds					Qvalue
3) D8-Toluene	12.794	98	5696940	5.056 ug/L	98
5) 1,4-Dioxane	12.281	88	185832	25.705 ug/l #	66

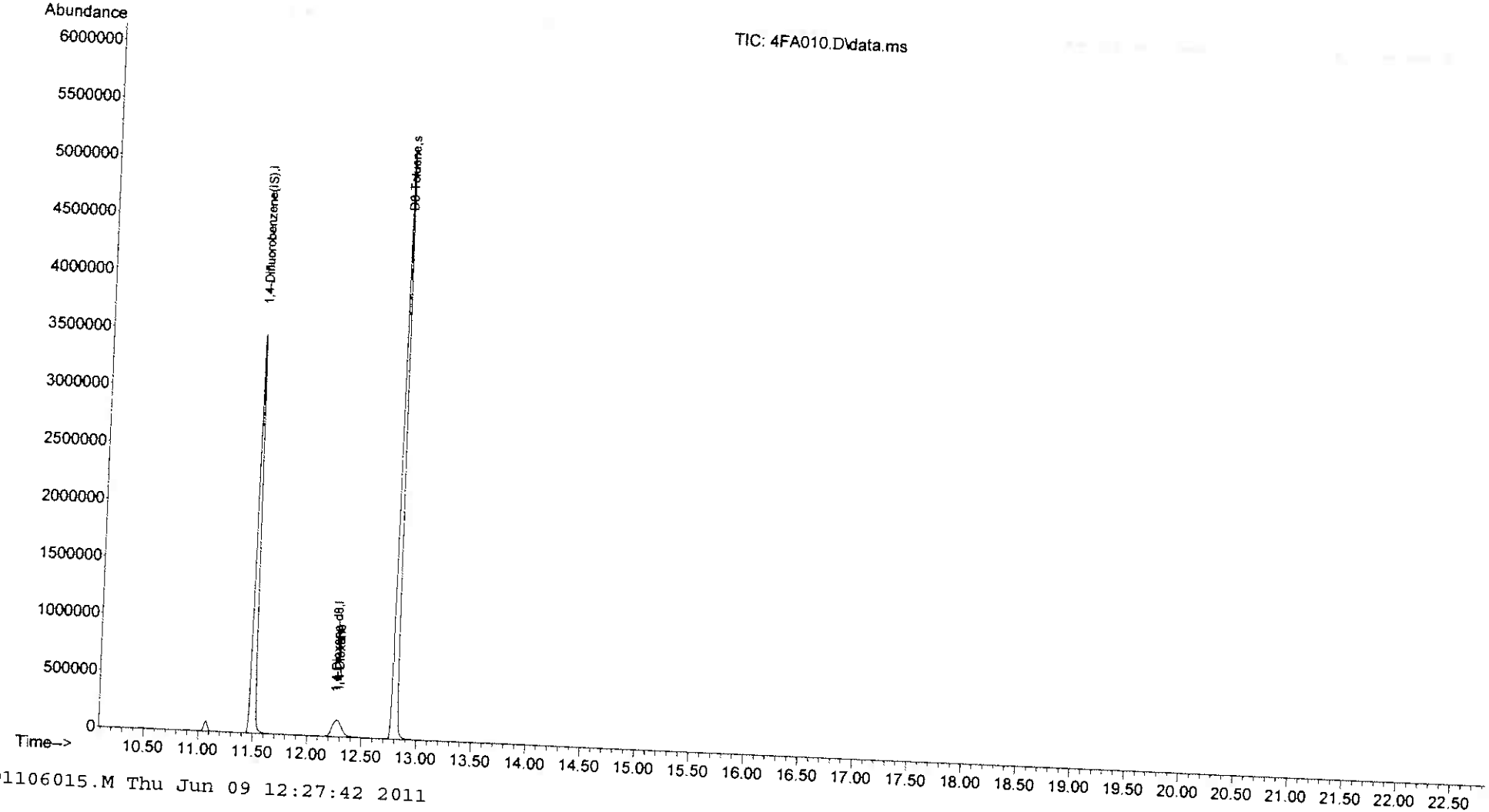
(#) = qualifier out of range (m) = manual integration (+) = signals summed

KTD60911.

Quantitation Report (Not Reviewed)

Data Path : C:\msdchem\1\DATA\060611\
Data File : 4FA010.D
Acq On : 7 Jun 2011 16:25
Operator : kat
Sample : SCV 25ppb
Misc :
ALS Vial : 10 Sample Multiplier: 1
InstName : OVGCMS4

Quant Time: Jun 09 12:27:24 2011
Quant Method : C:\msdchem\1\METHODS\METHODS\D1106015.M
Quant Title : ENCO SOPVGCMS/10;element cal 1106015
QLast Update : Tue Jun 07 12:11:55 2011
Response via : Initial Calibration



Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\DATA\101111\
Data File : 4Jf003.D
Acq On : 11 Oct 2011 15:37
Operator : kat
Sample : 1J11017-bs1
Misc :
ALS Vial : 3 Sample Multiplier: 1
InstName : OVGCMS4

Quant Time: Oct 12 10:05:27 2011
Quant Method : C:\msdchem\1\METHODS\METHODS\D1106015.M
Quant Title : ENCO SOPVGCMS/10;element cal 1106015
QLast Update : Mon Jun 13 12:21:39 2011
Response via : Initial Calibration

KT 10.12.11
LG ~~10-11-12~~ 10.12.11

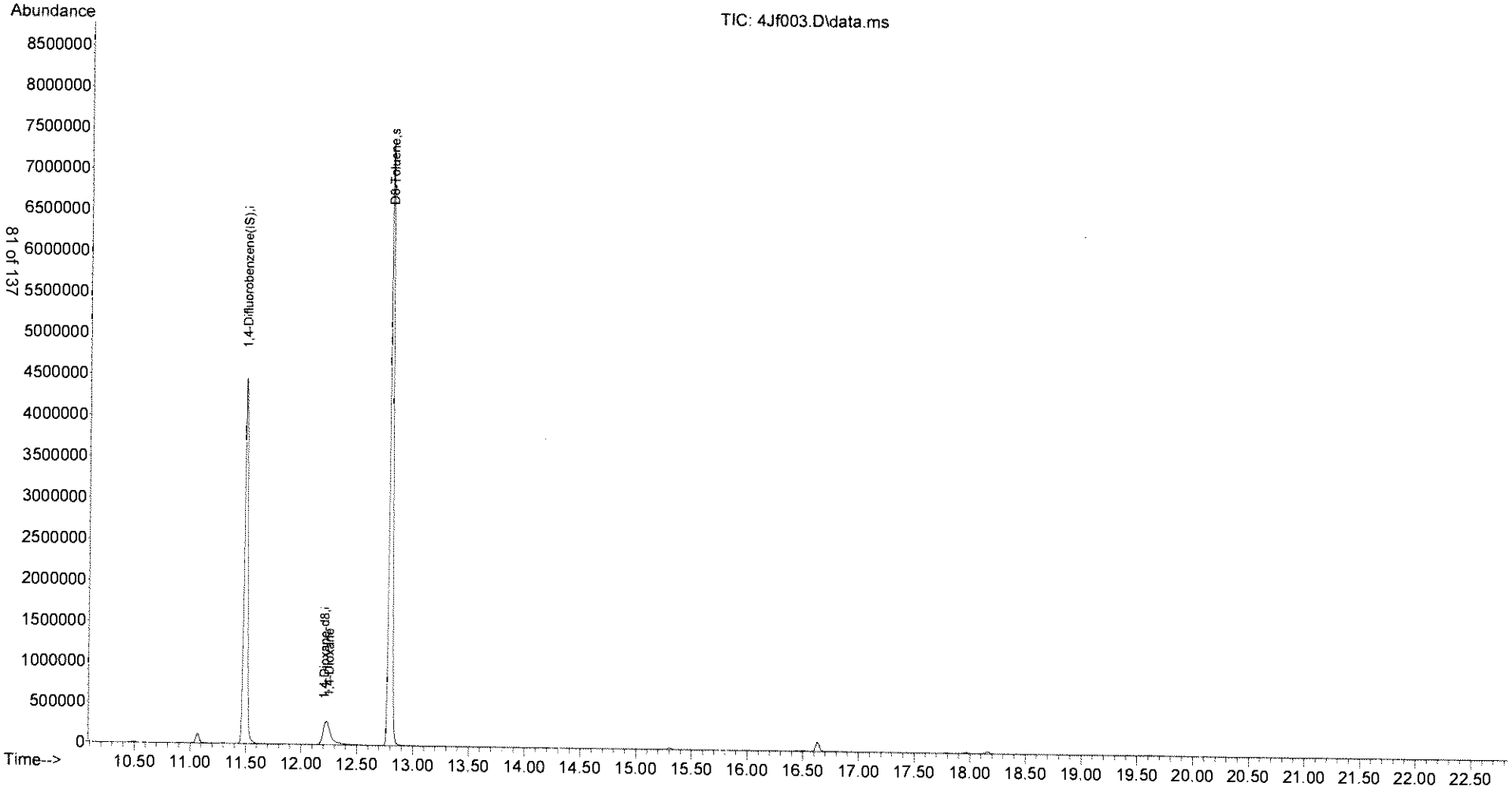
Internal Standards	R.T.	QIon	Response	Conc Units	Dev(Min)
1) 1,4-Difluorobenzene(IS)	11.498	114	6863318	5.000 ug/L	0.00
4) 1,4-Dioxane-d8	12.204	64	336703	50.000 ug/l	-0.05
System Monitoring Compounds					
2) D8-Toluene	12.797	98	7995927	5.565 ug/L	0.00
Spiked Amount 5.000	Range 79 - 127		Recovery = 111.300%		
Target Compounds					Qvalue
3) D8-Toluene	12.797	98	7995927	5.565 ug/L	95
5) 1,4-Dioxane	12.247	88	313614	28.830 ug/l #	77

(#) = qualifier out of range (m) = manual integration (+) = signals summed

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\DATA\101111\
Data File : 4Jf003.D
Acq On : 11 Oct 2011 15:37
Operator : kat
Sample : 1J11017-bs1
Misc :
ALS Vial : 3 Sample Multiplier: 1
InstName : OVGCMS4

Quant Time: Oct 12 10:05:27 2011
Quant Method : C:\msdchem\1\METHODS\METHODS\D1106015.M
Quant Title : ENCO SOPVGCMS/10;element cal 1106015
QLast Update : Mon Jun 13 12:21:39 2011
Response via : Initial Calibration



Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\DATA\101111\
Data File : 4Jf004.D
Acq On : 11 Oct 2011 16:09
Operator : kat
Sample : 1J11017-blk1
Misc :
ALS Vial : 4 Sample Multiplier: 1
InstName : OVGCMS4

Quant Time: Oct 12 10:28:06 2011
Quant Method : C:\msdchem\1\METHODS\METHODS\D1106015.M
Quant Title : ENCO SOPVGCMS/10;element cal 1106015
QLast Update : Mon Jun 13 12:21:39 2011
Response via : Initial Calibration

KAT 10.12.11

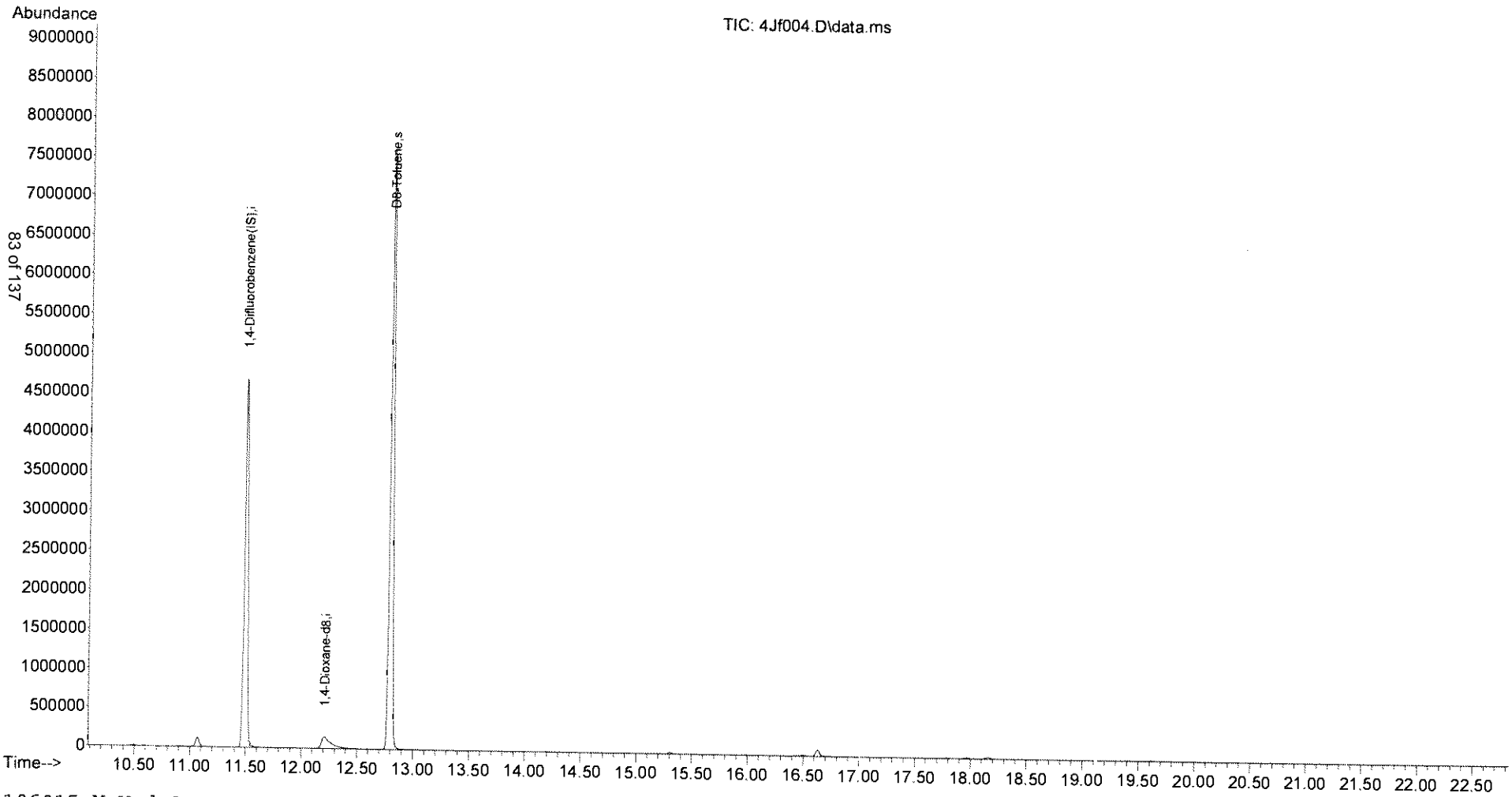
Internal Standards	R.T.	QIon	Response	Conc Units	Dev(Min)
1) 1,4-Difluorobenzene(IS)	11.497	114	7110161	5.000 ug/L	0.00
4) 1,4-Dioxane-d8	12.209	64	364646	50.000 ug/l	-0.04
System Monitoring Compounds					
2) D8-Toluene	12.797	98	8320809	5.590 ug/L	0.00
Spiked Amount 5.000	Range 79 - 127		Recovery	= 111.800%	
Target Compounds					Qvalue
3) D8-Toluene	12.797	98	8320809	5.590 ug/L	95
5) 1,4-Dioxane	0.000	88	0	N.D. d	

(#) = qualifier out of range (m) = manual integration (+) = signals summed

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\DATA\101111\
Data File : 4Jf004.D
Acq On : 11 Oct 2011 16:09
Operator : kat
Sample : 1J11017-blk1
Misc :
ALS Vial : 4 Sample Multiplier: 1
InstName : OVGCMS4

Quant Time: Oct 12 10:28:06 2011
Quant Method : C:\msdchem\1\METHODS\METHODS\D1106015.M
Quant Title : ENCO SOPVGCMS/10;element cal 1106015
QLast Update : Mon Jun 13 12:21:39 2011
Response via : Initial Calibration



D1106015.M Wed Oct 12 10:28:11 2011

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\DATA\101111\
Data File : 4Jf005.D
Acq On : 11 Oct 2011 16:41
Operator : kat
Sample : 1J11017-ms1
Misc :
ALS Vial : 5 Sample Multiplier: 1
InstName : OVGCMS4

Quant Time: Oct 12 10:33:09 2011
Quant Method : C:\msdchem\1\METHODS\METHODS\D1106015.M
Quant Title : ENCO SOPVGCMS/10;element cal 1106015
QLast Update : Mon Jun 13 12:21:39 2011
Response via : Initial Calibration

KAT 10.12.11

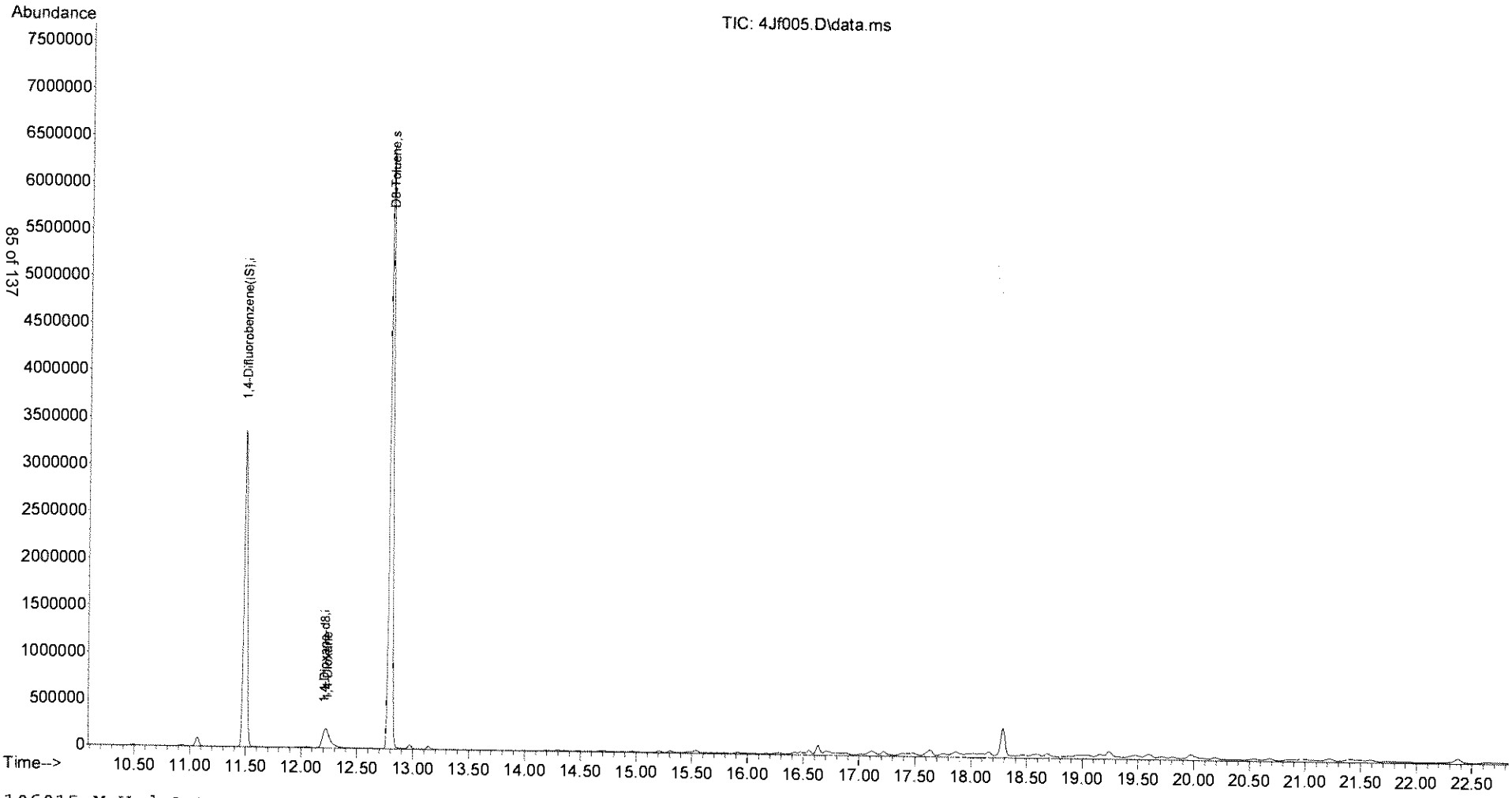
Internal Standards	R.T.	QIon	Response	Conc Units	Dev(Min)
1) 1,4-Difluorobenzene(IS)	11.498	114	6226005m	5.000 ug/L	0.00
4) 1,4-Dioxane-d8	12.204	64	229144	50.000 ug/l	-0.05
System Monitoring Compounds					
2) D8-Toluene	12.797	98	6997736	5.369 ug/L	0.00
Spiked Amount 5.000	Range 79 - 127		Recovery	= 107.380%	
Target Compounds					Qvalue
3) D8-Toluene	12.797	98	6997736	5.369 ug/L	95
5) 1,4-Dioxane	12.233	88	203254	27.456 ug/l #	64

(#) = qualifier out of range (m) = manual integration (+) = signals summed

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\DATA\101111\
Data File : 4Jf005.D
Acq On : 11 Oct 2011 16:41
Operator : kat
Sample : 1J11017-ms1
Misc :
ALS Vial : 5 Sample Multiplier: 1
InstName : OVGCMS4

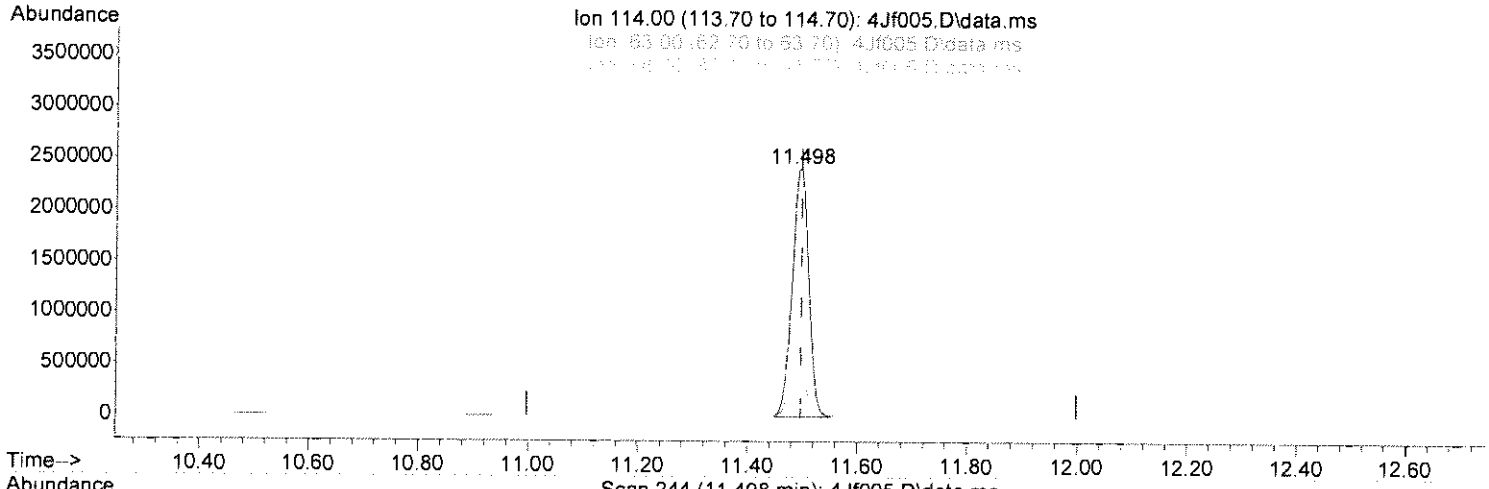
Quant Time: Oct 12 10:33:09 2011
Quant Method : C:\msdchem\1\METHODS\METHODS\D1106015.M
Quant Title : ENCO SOPVGCMS/10;element cal 1106015
QLast Update : Mon Jun 13 12:21:39 2011
Response via : Initial Calibration

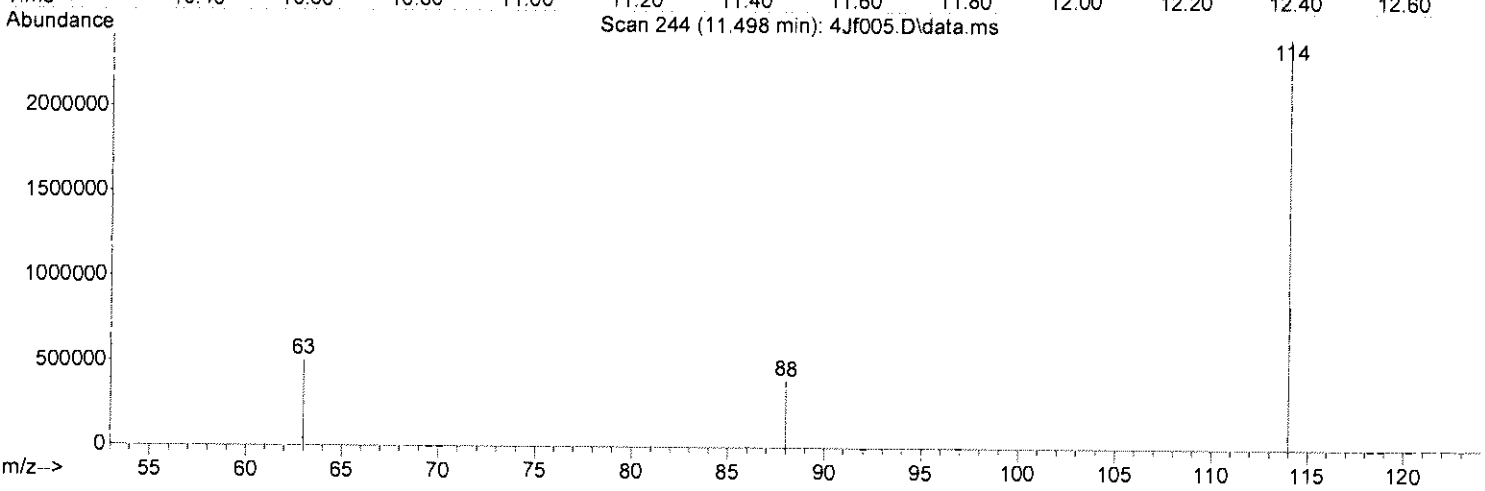


Quantitation Report (Qedit)

Data Path : C:\msdchem\1\DATA\101111\
Data File : 4Jf005.D
Acq On : 11 Oct 2011 16:41
Operator : kat
Sample : 1J11017-ms1
Misc :
ALS Vial : 5 Sample Multiplier: 1
InstName : OVGCMS4

Quant Time: Oct 12 10:05:29 2011
Quant Method : C:\msdchem\1\METHODS\METHODS\D1106015.M
Quant Title : ENCO SOPVGCMS/10;element cal 1106015
QLast Update : Mon Jun 13 12:21:39 2011
Response via : Initial Calibration





TIC: 4Jf005.D\data.ms

(1) 1,4-Difluorobenzene(IS) (i)

11.498min (+0.000) 5.00ug/L

response 5084666

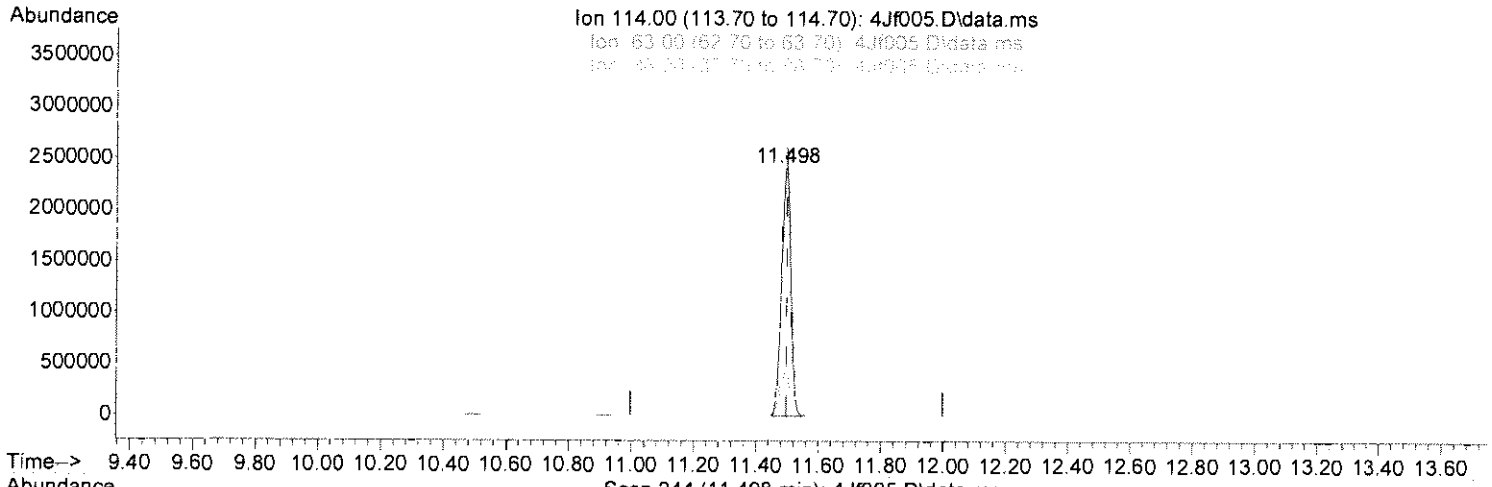
Ion	Exp%	Act%
114.00	100	100
63.00	22.60	22.65
88.00	19.00	16.83
0.00	0.00	0.00

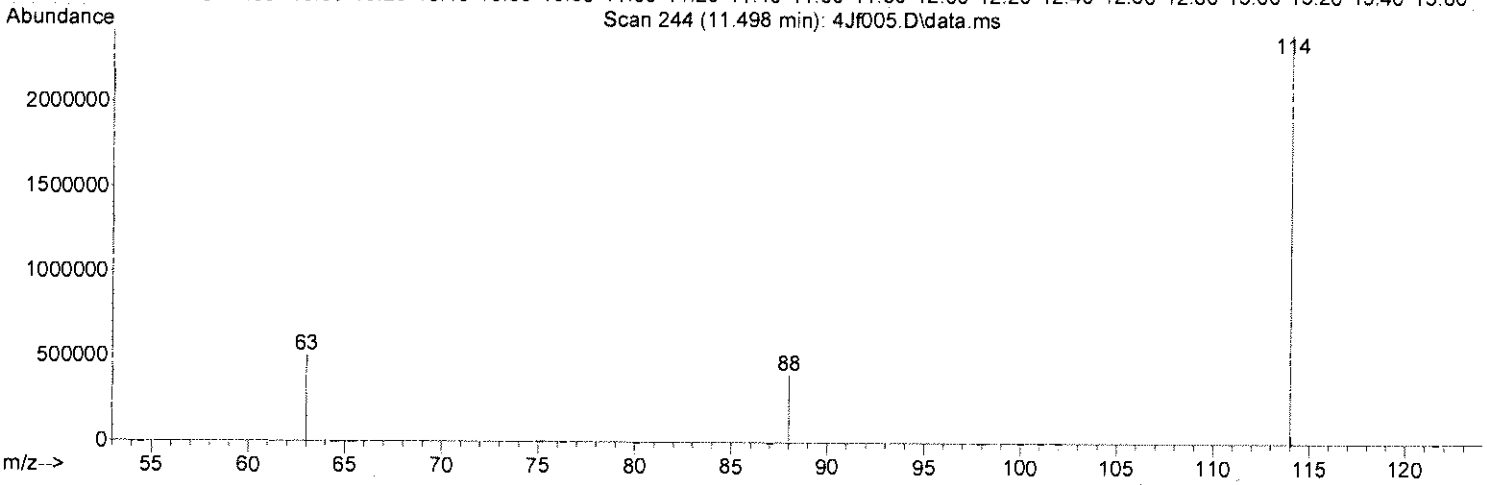
Select one:
[X] Original integration [ ] Manual integration
Select reason for manual integration:
[ ] Poor integration (peak tailing, baseline selection)
[ ] Incorrect peak selection/Peak not found
[ ] Hump integration
[ ] Baseline drop for split peaks
[ ] ISTD reintegration
[ ] Other:
Review by/Date: KS 10-12-11
Review by/Date: KB 10-13-11

Quantitation Report (Qedit)

Data Path : C:\msdchem\1\DATA\101111\
Data File : 4Jf005.D
Acq On : 11 Oct 2011 16:41
Operator : kat
Sample : 1J11017-ms1
Misc :
ALS Vial : 5 Sample Multiplier: 1
InstName : OVGCMS4

Quant Time: Oct 12 10:05:29 2011
Quant Method : C:\msdchem\1\METHODS\METHODS\D1106015.M
Quant Title : ENCO SOPVGCMS/10;element cal 1106015
QLast Update : Mon Jun 13 12:21:39 2011
Response via : Initial Calibration





TIC: 4Jf005.D\data.ms

(1) 1,4-Difluorobenzene(IS) (i)

11.498min (+0.000) 5.00ug/L m

response 6226005

Ion	Exp%	Act%
114.00	100	100
63.00	22.60	18.50
88.00	19.00	13.74
0.00	0.00	0.00

Select one:
[ ] Original integration [X] Manual integration
Select reason for manual integration:
[ ] Poor integration (peak tailing, baseline selection)
[ ] Incorrect peak selection/Peak not found
[ ] Hump integration
[ ] Baseline drop for split peaks
[X] ISTD reintegration
[ ] Other:
Review by/Date: KAT 10.12.11
Review by/Date: KS 10-13-11

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\DATA\101111\
Data File : 4Jf006.D
Acq On : 11 Oct 2011 17:16
Operator : kat
Sample : 1J11017-msd1
Misc :
ALS Vial : 6 Sample Multiplier: 1
InstName : OVGCMS4

Quant Time: Oct 12 10:29:42 2011
Quant Method : C:\msdchem\1\METHODS\METHODS\D1106015.M
Quant Title : ENCO SOPVGCMS/10;element cal 1106015
QLast Update : Mon Jun 13 12:21:39 2011
Response via : Initial Calibration

KAT 10.12.11

Internal Standards	R.T.	QIon	Response	Conc Units	Dev(Min)
1) 1,4-Difluorobenzene(IS)	11.498	114	7570162m	5.000 ug/L	0.00
4) 1,4-Dioxane-d8	12.419	64	262322	50.000 ug/l	0.17

System Monitoring Compounds

2) D8-Toluene	12.797	98	8965547	5.657 ug/L	0.00

Spiked Amount 5.000 Range 79 - 127 Recovery = 113.140%

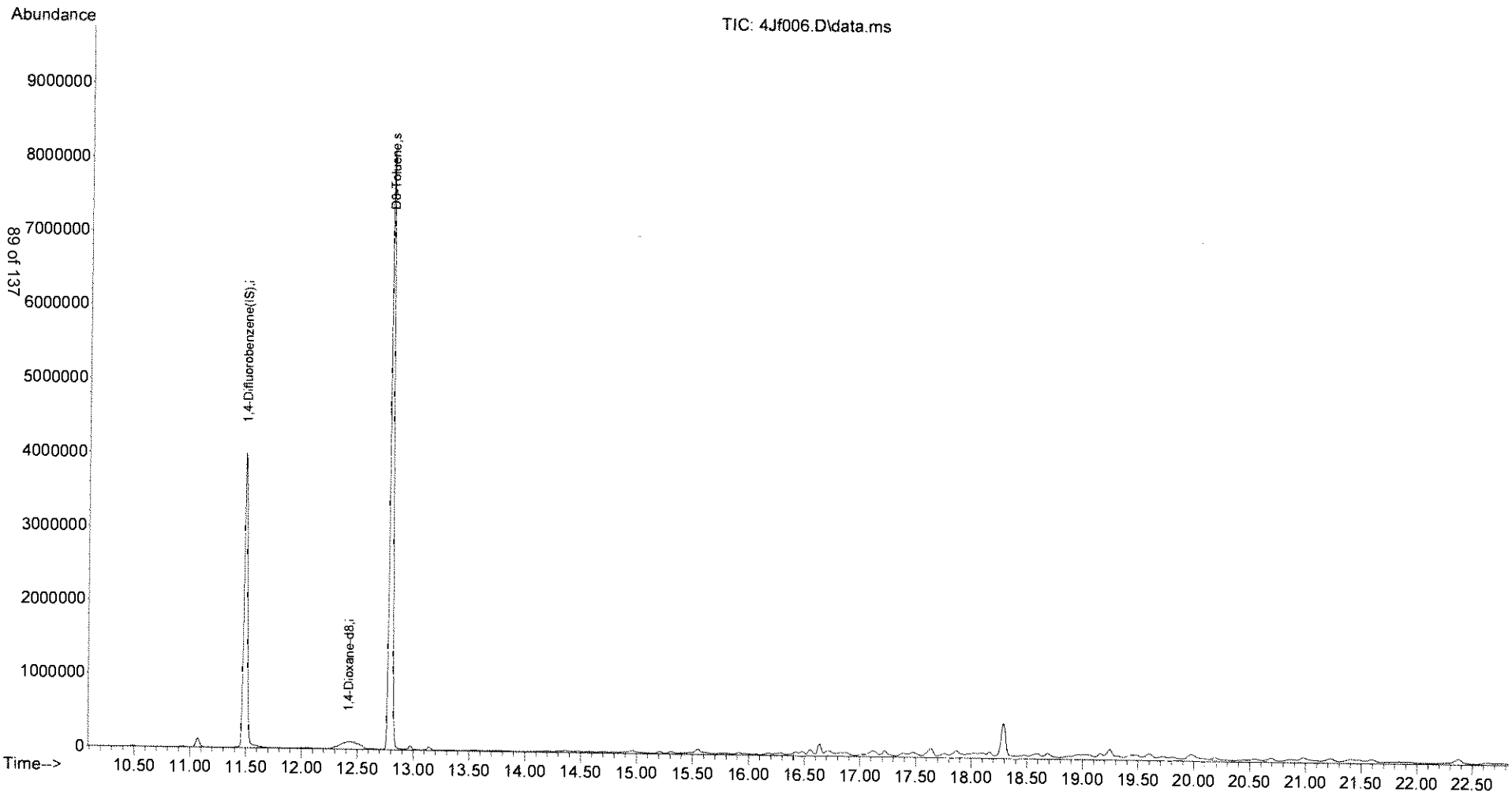
Target Compounds					Qvalue
3) D8-Toluene	12.797	98	8965547	5.657 ug/L	96
5) 1,4-Dioxane	12.419	88	261048	30.803 ug/l #	75

(#) = qualifier out of range (m) = manual integration (+) = signals summed

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\DATA\101111\
Data File : 4Jf006.D
Acq On : 11 Oct 2011 17:16
Operator : kat
Sample : 1J11017-msd1
Misc :
ALS Vial : 6 Sample Multiplier: 1
InstName : OVGCMS4

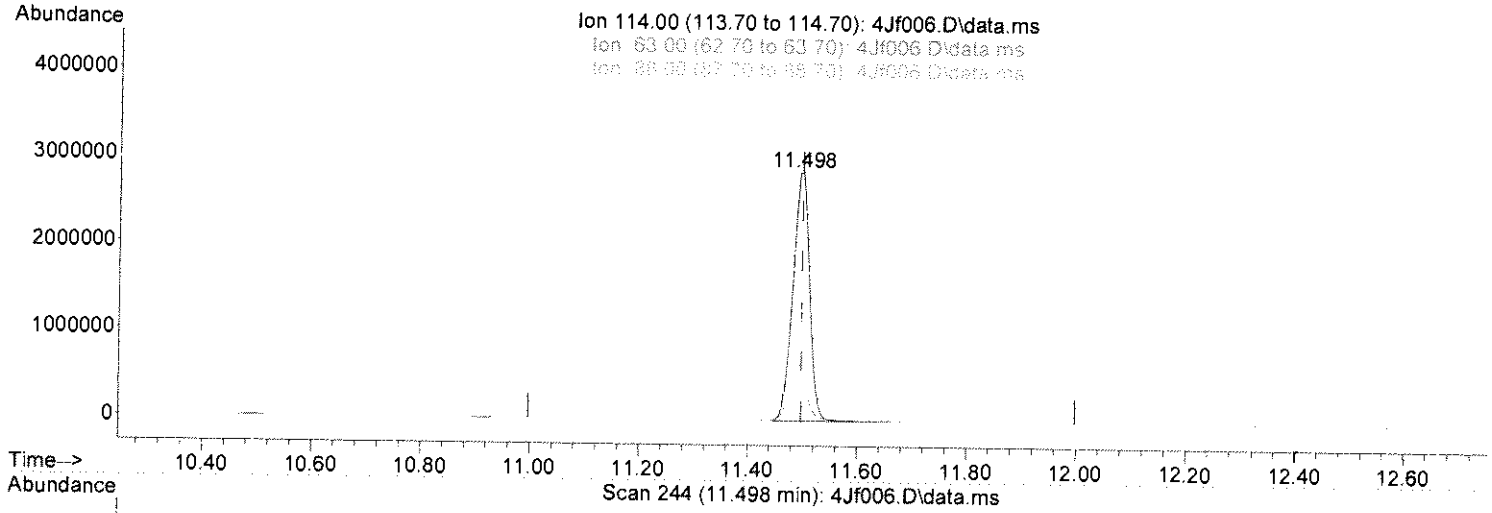
Quant Time: Oct 12 10:29:42 2011
Quant Method : C:\msdchem\1\METHODS\METHODS\D1106015.M
Quant Title : ENCO SOPVGCMS/10;element cal 1106015
QLast Update : Mon Jun 13 12:21:39 2011
Response via : Initial Calibration



Quantitation Report (Qedit)

Data Path : C:\msdchem\1\DATA\101111\
Data File : 4Jf006.D
Acq On : 11 Oct 2011 17:16
Operator : kat
Sample : 1J11017-msd1
Misc :
ALS Vial : 6 Sample Multiplier: 1
InstName : OVGCMS4

Quant Time: Oct 12 10:05:30 2011
Quant Method : C:\msdchem\1\METHODS\METHODS\D1106015.M
Quant Title : ENCO SOPVGCMS/10;element cal 1106015
QLast Update : Mon Jun 13 12:21:39 2011
Response via : Initial Calibration



TIC: 4Jf006.D\data.ms

(1) 1,4-Difluorobenzene(IS) (i)

11.498min (+0.000) 5.00ug/L

response 6086386

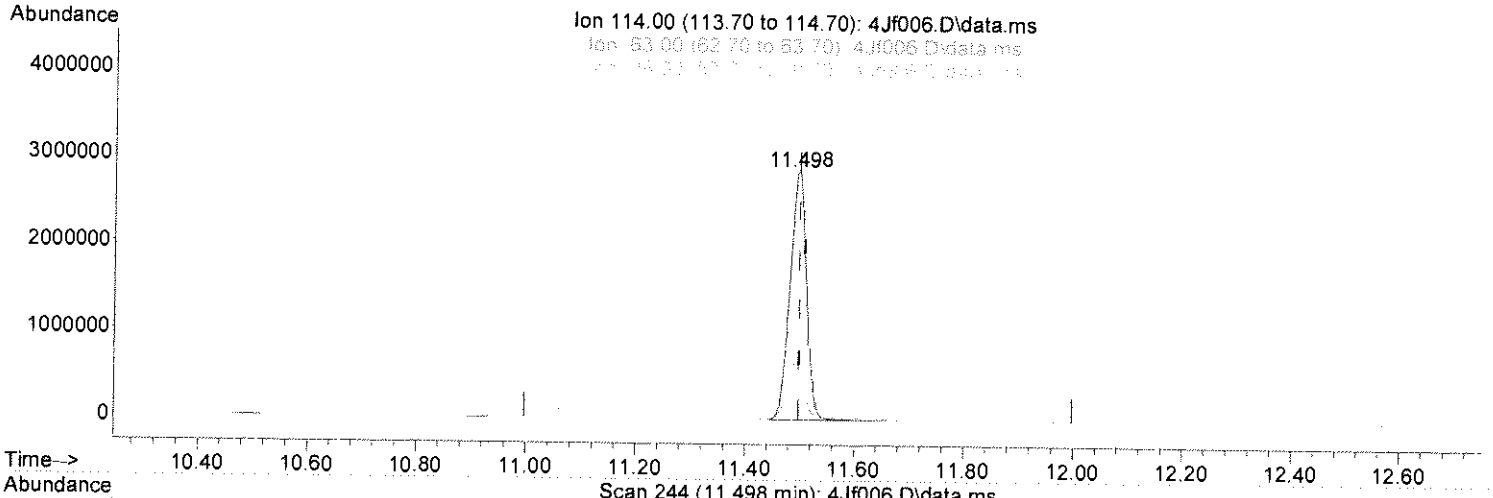
Ion	Exp%	Act%
114.00	100	100
63.00	22.60	26.39
88.00	19.00	17.07
0.00	0.00	0.00

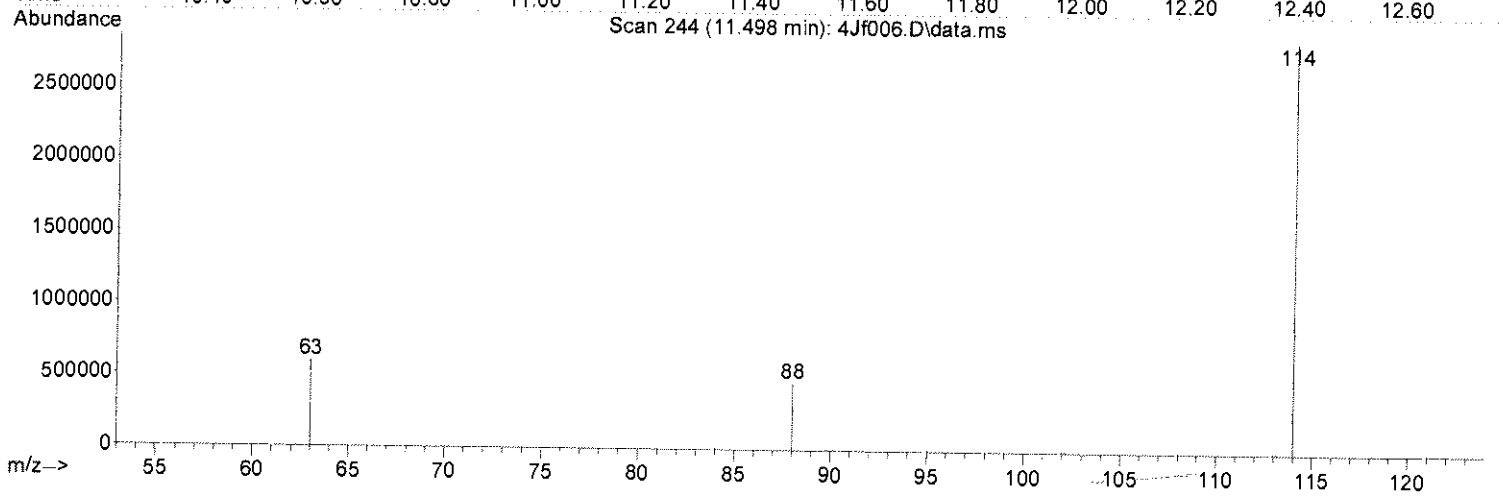
Select one:
[✓] Original integration [ ] Manual integration
Select reason for manual integration:
[ ] Poor integration (peak tailing, baseline selection)
[ ] Incorrect peak selection/Peak not found
[ ] Hump integration
[ ] Baseline drop for split peaks
[ ] ISTD reintegration
[ ] Other:
Review by/Date: VT 10-12-11
Review by/Date: LS 10-13-11

Quantitation Report (Qedit)

Data Path : C:\msdchem\1\DATA\101111\
Data File : 4Jf006.D
Acq On : 11 Oct 2011 17:16
Operator : kat
Sample : 1J11017-msd1
Misc :
ALS Vial : 6 Sample Multiplier: 1
InstName : OVGCMS4

Quant Time: Oct 12 10:05:30 2011
Quant Method : C:\msdchem\1\METHODS\METHODS\D1106015.M
Quant Title : ENCO SOPVGCMS/10;element cal 1106015
QLast Update : Mon Jun 13 12:21:39 2011
Response via : Initial Calibration





TIC: 4Jf006.D\data.ms

(1) 1,4-Difluorobenzene(IS) (i)

11.498min (+0.000) 5.00ug/L m

response 7570162

Ion	Exp%	Act%
114.00	100	100
63.00	22.60	21.21
88.00	19.00	13.73
0.00	0.00	0.00

Select one:
[ ] Original integration [✓] Manual integration
Select reason for manual integration:
[✓] Poor Integration (peak tailing, baseline selection)
[ ] Incorrect peak selection/Peak not found
[ ] Hump integration
[ ] Baseline drop for split peaks
[✓] ISTD reintegration
[ ] Other:
Review by/Date: KT 10.12.11.
Review by/Date: KB 10-13-11

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\DATA\101111\
Data File : 4Jf017.D
Acq On : 12 Oct 2011 12:15
Operator : kat
Sample : 1j11017-blk2
Misc :
ALS Vial : 17 Sample Multiplier: 1
InstName : OVGCMS4

Quant Time: Oct 12 14:22:15 2011
Quant Method : C:\msdchem\1\METHODS\METHODS\D1106015.M
Quant Title : ENCO SOPVGCMS/10;element cal 1106015
QLast Update : Mon Jun 13 12:21:39 2011
Response via : Initial Calibration

VT 10/12/11

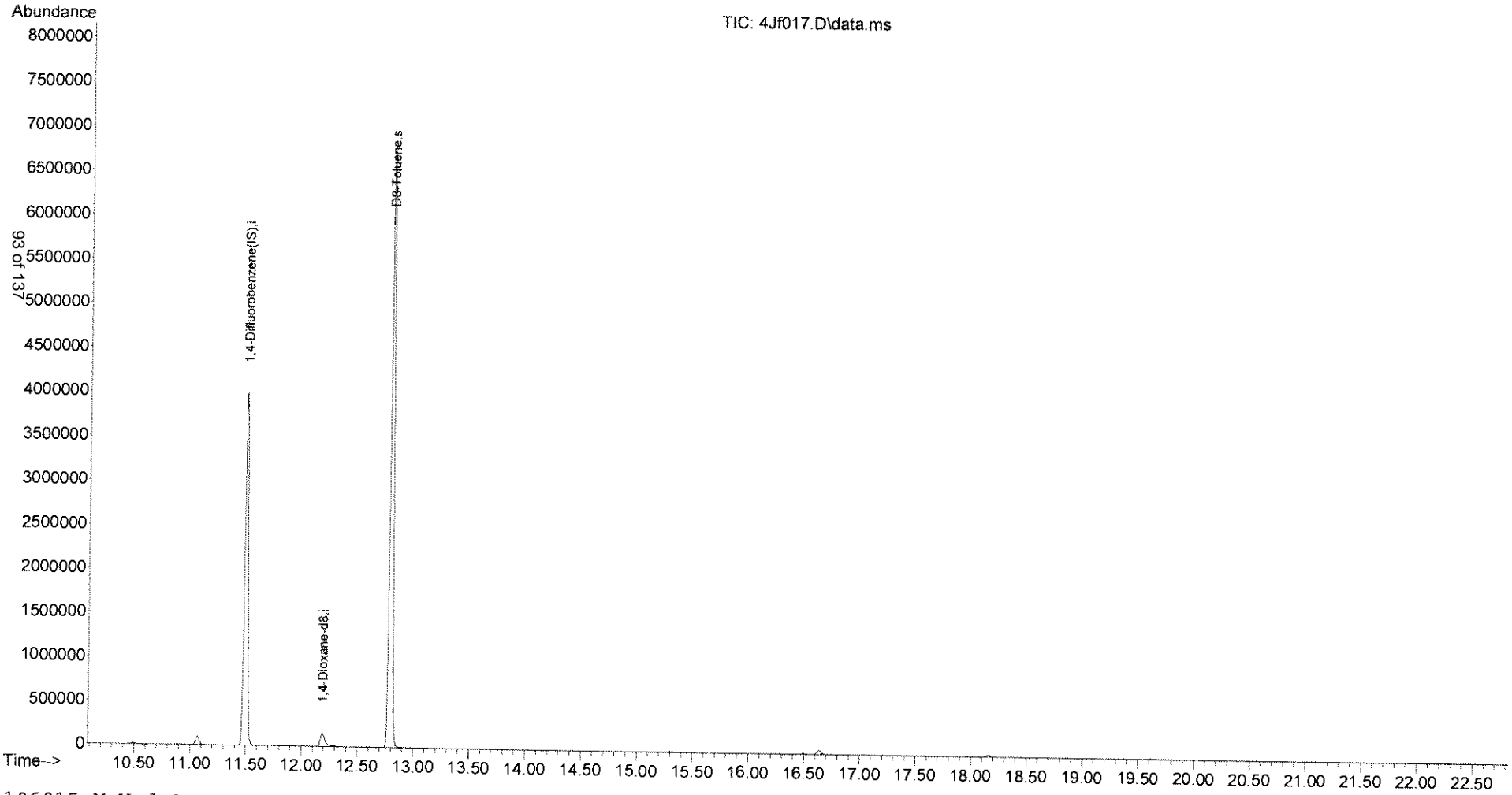
Internal Standards	R.T.	QIon	Response	Conc Units	Dev(Min)
1) 1,4-Difluorobenzene(IS)	11.498	114	6085519	5.000 ug/L	0.00
4) 1,4-Dioxane-d8	12.190	64	180780	50.000 ug/l	-0.06
System Monitoring Compounds					
2) D8-Toluene	12.797	98	7377598	5.791 ug/L	0.00
Spiked Amount 5.000	Range 79 - 127		Recovery	= 115.820%	
Target Compounds					Qvalue
3) D8-Toluene	12.797	98	7377598	5.791 ug/L	95
5) 1,4-Dioxane	0.000	88	0	N.D. d	

(#) = qualifier out of range (m) = manual integration (+) = signals summed

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\DATA\101111\
Data File : 4Jf017.D
Acq On : 12 Oct 2011 12:15
Operator : kat
Sample : 1j11017-blk2
Misc :
ALS Vial : 17 Sample Multiplier: 1
InstName : OVGCMS4

Quant Time: Oct 12 14:22:15 2011
Quant Method : C:\msdchem\1\METHODS\METHODS\D1106015.M
Quant Title : ENCO SOPVGCMS/10;element cal 1106015
QLast Update : Mon Jun 13 12:21:39 2011
Response via : Initial Calibration



D1106015.M Wed Oct 12 14:22:54 2011

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\DATA\101111\
Data File : 4Jf007.D
Acq On : 11 Oct 2011 17:54
Operator : kat
Sample : a105389-07
Misc :
ALS Vial : 7 Sample Multiplier: 1
InstName : OVGCMS4

RIX ISTDs Fail High

Quant Time: Oct 12 10:05:31 2011
Quant Method : C:\msdchem\1\METHODS\METHODS\D1106015.M
Quant Title : ENCO SOPVGCMS/10;element cal 1106015
QLast Update : Mon Jun 13 12:21:39 2011
Response via : Initial Calibration

KG 10.12.11

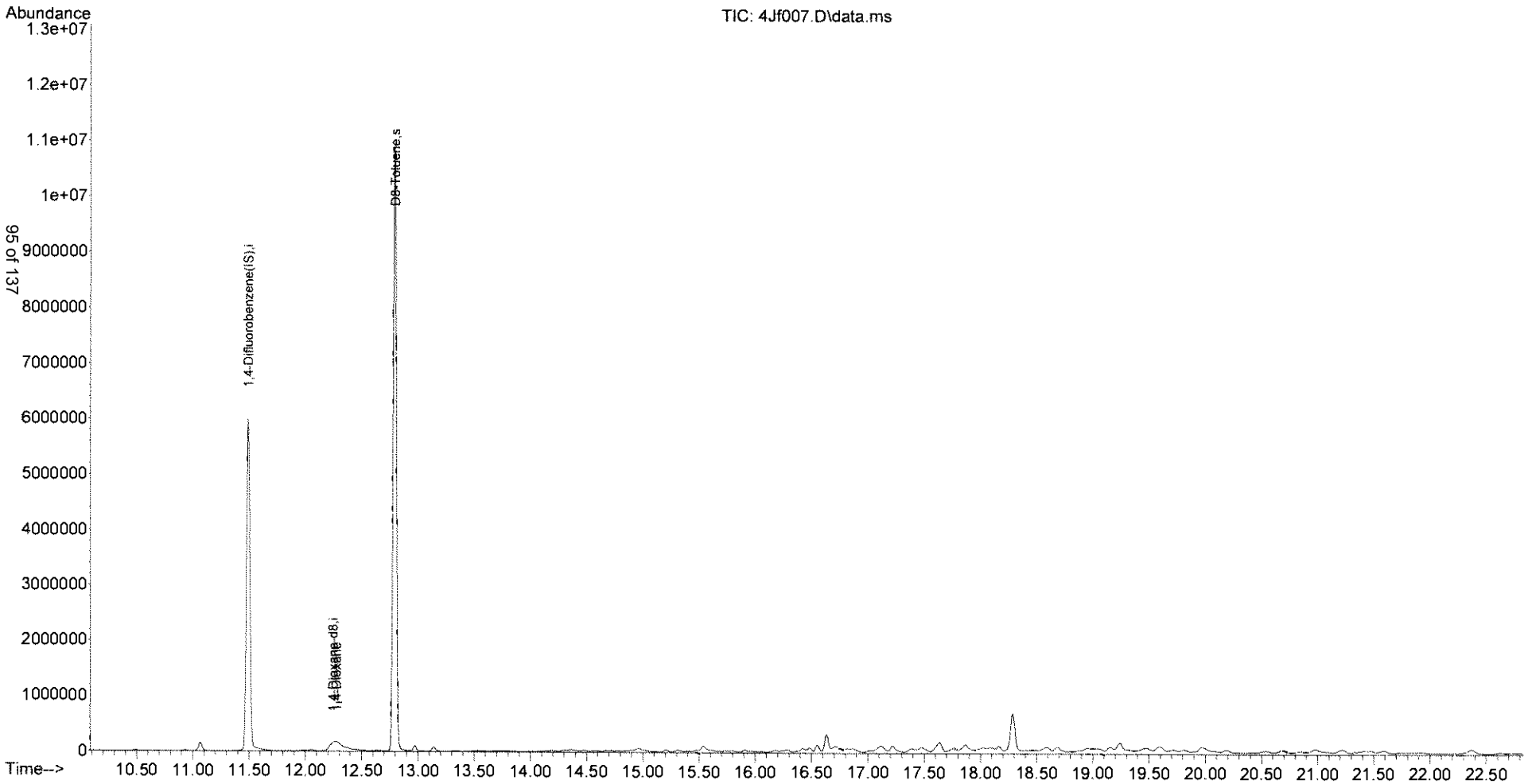
Internal Standards	R.T.	QIon	Response	Conc Units	Dev(Min)
1) 1,4-Difluorobenzene(IS)	11.492	114	9160796	5.000 ug/L	0.00
4) 1,4-Dioxane-d8	12.247	64	621599	50.000 ug/l	0.00
System Monitoring Compounds					
2) D8-Toluene	12.797	98	12147342	6.334 ug/L	0.00
Spiked Amount 5.000	Range 79 - 127		Recovery = 126.680%		
Target Compounds					Qvalue
3) D8-Toluene	12.797	98	12147342	6.334 ug/L	97
5) 1,4-Dioxane	12.276	88	9853	0.491 ug/l #	1

(#) = qualifier out of range (m) = manual integration (+) = signals summed

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\DATA\101111\
Data File : 4Jf007.D
Acq On : 11 Oct 2011 17:54
Operator : kat
Sample : a105389-07
Misc :
ALS Vial : 7 Sample Multiplier: 1
InstName : OVGCMS4

Quant Time: Oct 12 10:05:31 2011
Quant Method : C:\msdchem\1\METHODS\METHODS\D1106015.M
Quant Title : ENCO SOPVGCMS/10;element cal 1106015
QLast Update : Mon Jun 13 12:21:39 2011
Response via : Initial Calibration



Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\DATA\101111\
Data File : 4Jf008.D
Acq On : 11 Oct 2011 18:29
Operator : kat
Sample : a105389-01
Misc :
ALS Vial : 8 Sample Multiplier: 1
InstName : OVGCMS4

Quant Time: Oct 12 10:05:32 2011
Quant Method : C:\msdchem\1\METHODS\METHODS\D1106015.M
Quant Title : ENCO SOPVGCMS/10;element cal 1106015
QLast Update : Mon Jun 13 12:21:39 2011
Response via : Initial Calibration

KAT 10/12/11

RIY IS's High

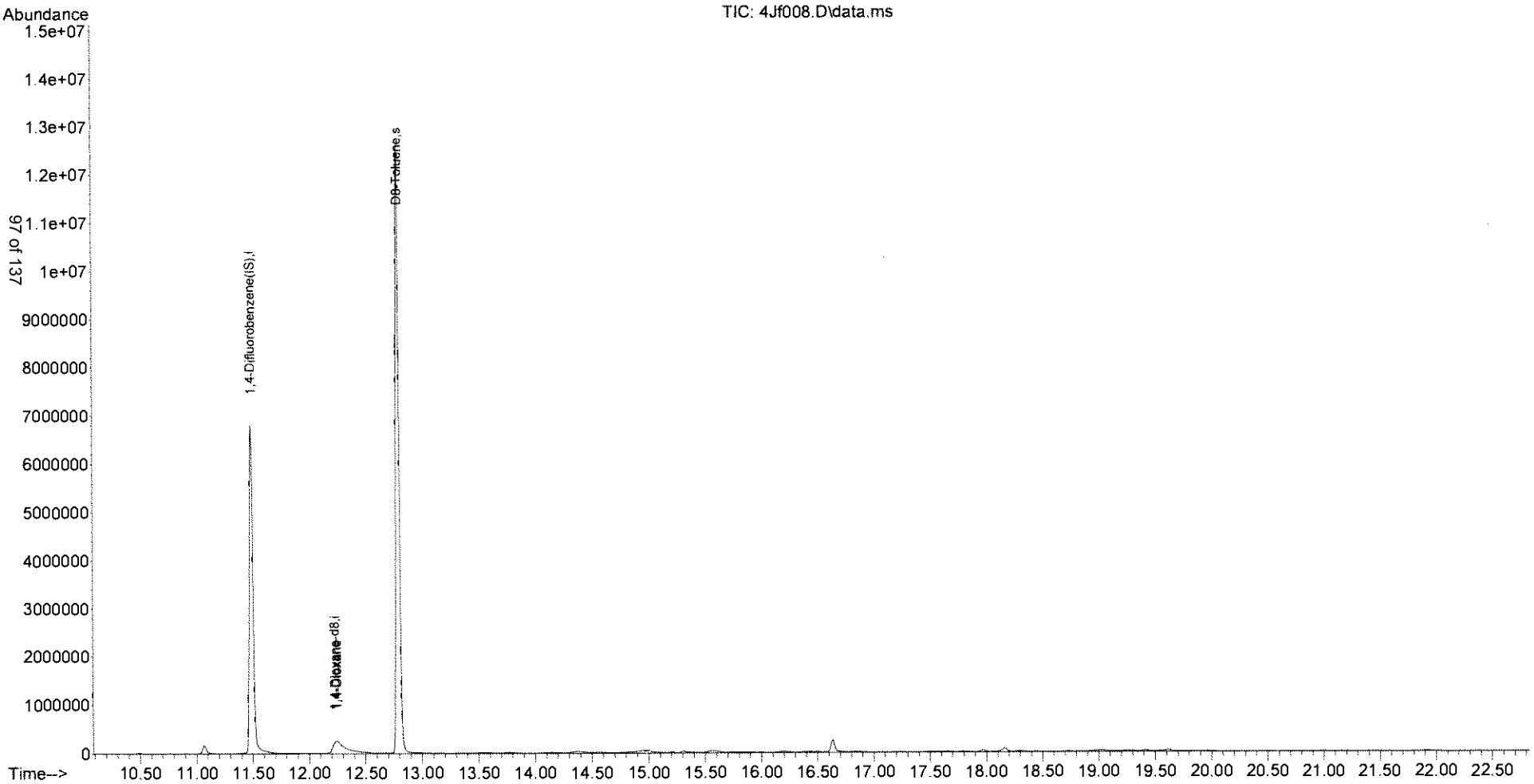
Internal Standards	R.T.	QIon	Response	Conc Units	Dev(Min)
1) 1,4-Difluorobenzene(IS)	11.492	114	10546993	5.000 ug/L	0.00
4) 1,4-Dioxane-d8	12.233	64	855447	50.000 ug/l	-0.02
System Monitoring Compounds					
2) D8-Toluene	12.797	98	14083952	6.379 ug/L	0.00
Spiked Amount 5.000	Range 79 - 127		Recovery = 127.580%#		
Target Compounds					Qvalue
3) D8-Toluene	12.797	98	14083952	6.379 ug/L	97
5) 1,4-Dioxane	12.247	88	11641	0.421 ug/l #	1

(#) = qualifier out of range (m) = manual integration (+) = signals summed

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\DATA\101111\
Data File : 4Jf008.D
Acq On : 11 Oct 2011 18:29
Operator : kat
Sample : a105389-01
Misc :
ALS Vial : 8 Sample Multiplier: 1
InstName : OVGCMS4

Quant Time: Oct 12 10:05:32 2011
Quant Method : C:\msdchem\1\METHODS\METHODS\D1106015.M
Quant Title : ENCO SOPVGCMS/10;element cal 1106015
QLast Update : Mon Jun 13 12:21:39 2011
Response via : Initial Calibration



Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\DATA\101111\
Data File : 4Jf009.D
Acq On : 11 Oct 2011 19:04
Operator : kat
Sample : a105389-02
Misc :
ALS Vial : 9 Sample Multiplier: 1
InstName : OVGCMS4

Quant Time: Oct 12 10:05:33 2011
Quant Method : C:\msdchem\1\METHODS\METHODS\D1106015.M
Quant Title : ENCO SOPVGCMS/10;element cal 1106015
QLast Update : Mon Jun 13 12:21:39 2011
Response via : Initial Calibration

KAT 10.12.11

RIX ISTD's high

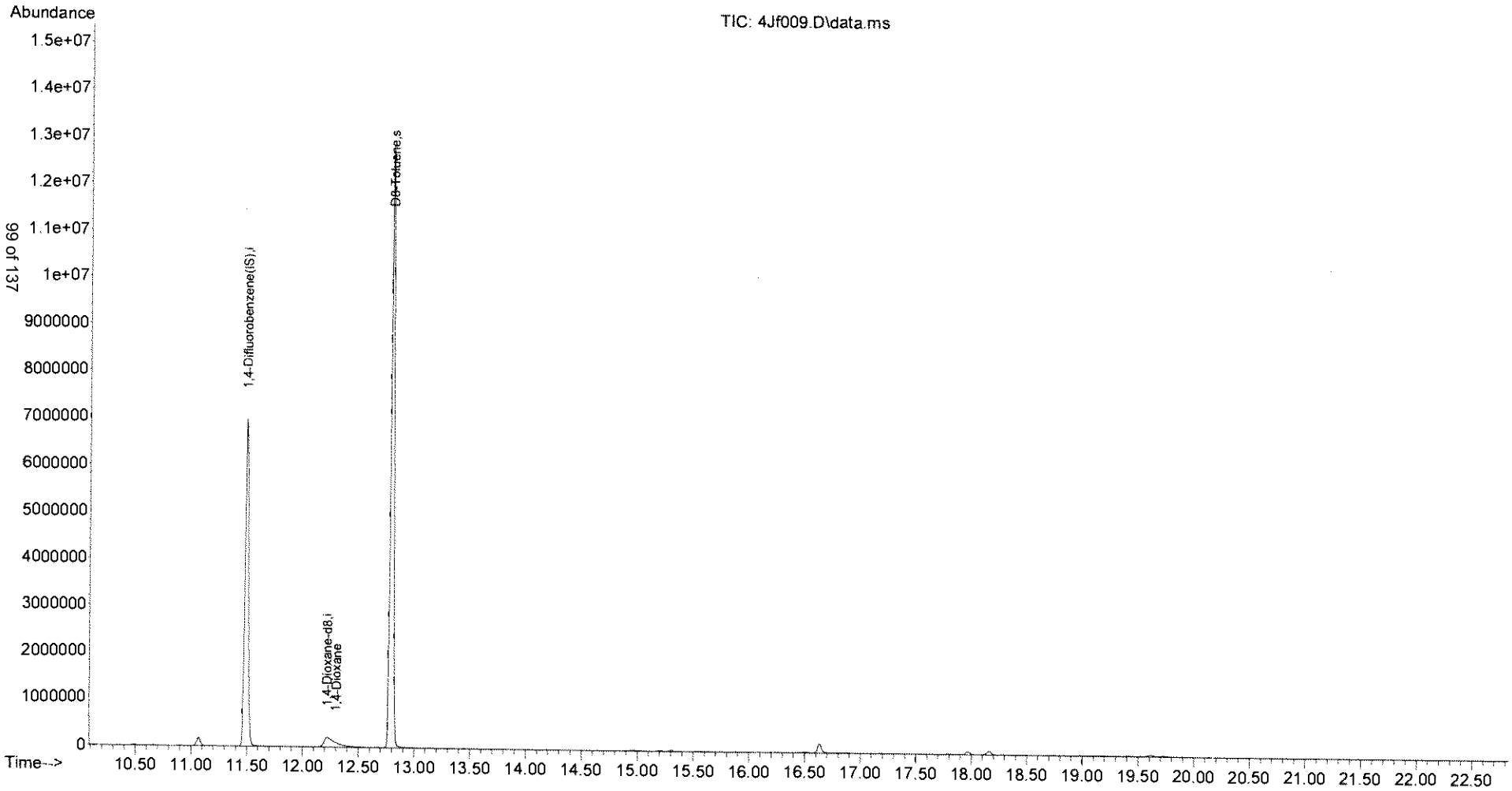
Internal Standards	R.T.	QIon	Response	Conc Units	Dev(Min)
1) 1,4-Difluorobenzene(IS)	11.498	114	10842808 ↑	5.000 ug/L	0.00
4) 1,4-Dioxane-d8	12.218	64	600174 ↑	50.000 ug/l	-0.03
System Monitoring Compounds					
2) D8-Toluene	12.797	98	14096296	6.210 ug/L	0.00
Spiked Amount 5.000	Range 79 - 127		Recovery = 124.200%		
Target Compounds					Qvalue
3) D8-Toluene	12.797	98	14096296	6.210 ug/L	97
5) 1,4-Dioxane	12.305	88	17104	0.882 ug/l #	1

(#) = qualifier out of range (m) = manual integration (+) = signals summed

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\DATA\101111\
Data File : 4Jf009.D
Acq On : 11 Oct 2011 19:04
Operator : kat
Sample : a105389-02
Misc :
ALS Vial : 9 Sample Multiplier: 1
InstName : OVGCMS4

Quant Time: Oct 12 10:05:33 2011
Quant Method : C:\msdchem\1\METHODS\METHODS\D1106015.M
Quant Title : ENCO SOPVGCMS/10;element cal 1106015
QLast Update : Mon Jun 13 12:21:39 2011
Response via : Initial Calibration



Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\DATA\101111\
Data File : 4Jf010.D
Acq On : 11 Oct 2011 19:39
Operator : kat
Sample : a105389-03
Misc :
ALS Vial : 10 Sample Multiplier: 1
InstName : OVGCMS4

Quant Time: Oct 12 10:05:34 2011
Quant Method : C:\msdchem\1\METHODS\METHODS\D1106015.M
Quant Title : ENCO SOPVGCMS/10;element cal 1106015
QLast Update : Mon Jun 13 12:21:39 2011
Response via : Initial Calibration

KAT 10.12.11

ISTDS High?

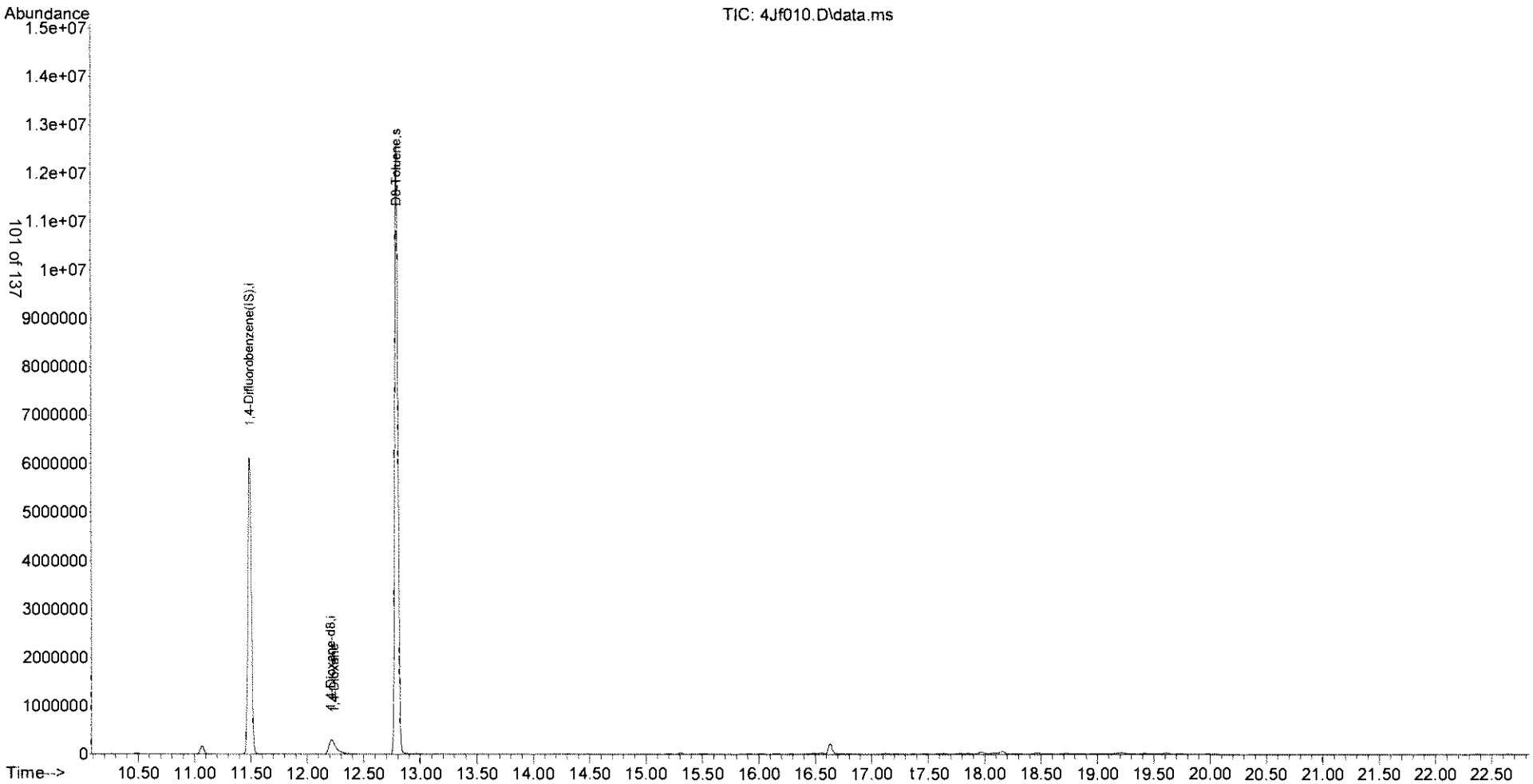
Internal Standards	R.T.	QIon	Response	Conc Units	Dev(Min)
1) 1,4-Difluorobenzene(IS)	11.497	114	9429681	5.000 ug/L	0.00
4) 1,4-Dioxane-d8	12.209	64	549370	50.000 ug/l	-0.04
System Monitoring Compounds					
2) D8-Toluene	12.796	98	13726605	6.954 ug/L	0.00
Spiked Amount 5.000	Range 79 - 127		Recovery	= 139.080%#	
Target Compounds					Qvalue
3) D8-Toluene	12.796	98	13726605	6.954 ug/L	97
5) 1,4-Dioxane	12.238	88	2860	0.161 ug/l #	1

(#) = qualifier out of range (m) = manual integration (+) = signals summed

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\DATA\101111\
Data File : 4Jf010.D
Acq On : 11 Oct 2011 19:39
Operator : kat
Sample : a105389-03
Misc :
ALS Vial : 10 Sample Multiplier: 1
InstName : OVGCMS4

Quant Time: Oct 12 10:05:34 2011
Quant Method : C:\msdchem\1\METHODS\METHODS\D1106015.M
Quant Title : ENCO SOPVGCMS/10;element cal 1106015
QLast Update : Mon Jun 13 12:21:39 2011
Response via : Initial Calibration



Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\DATA\101111\
Data File : 4Jf011.D
Acq On : 11 Oct 2011 20:15
Operator : kat
Sample : a105389-04
Misc :
ALS Vial : 11 Sample Multiplier: 1
InstName : OVGCMS4

KAT 10.12.11
R/N ISTDs High?

Quant Time: Oct 12 10:31:07 2011
Quant Method : C:\msdchem\1\METHODS\METHODS\D1106015.M
Quant Title : ENCO SOPVGCMS/10;element cal 1106015
QLast Update : Mon Jun 13 12:21:39 2011
Response via : Initial Calibration

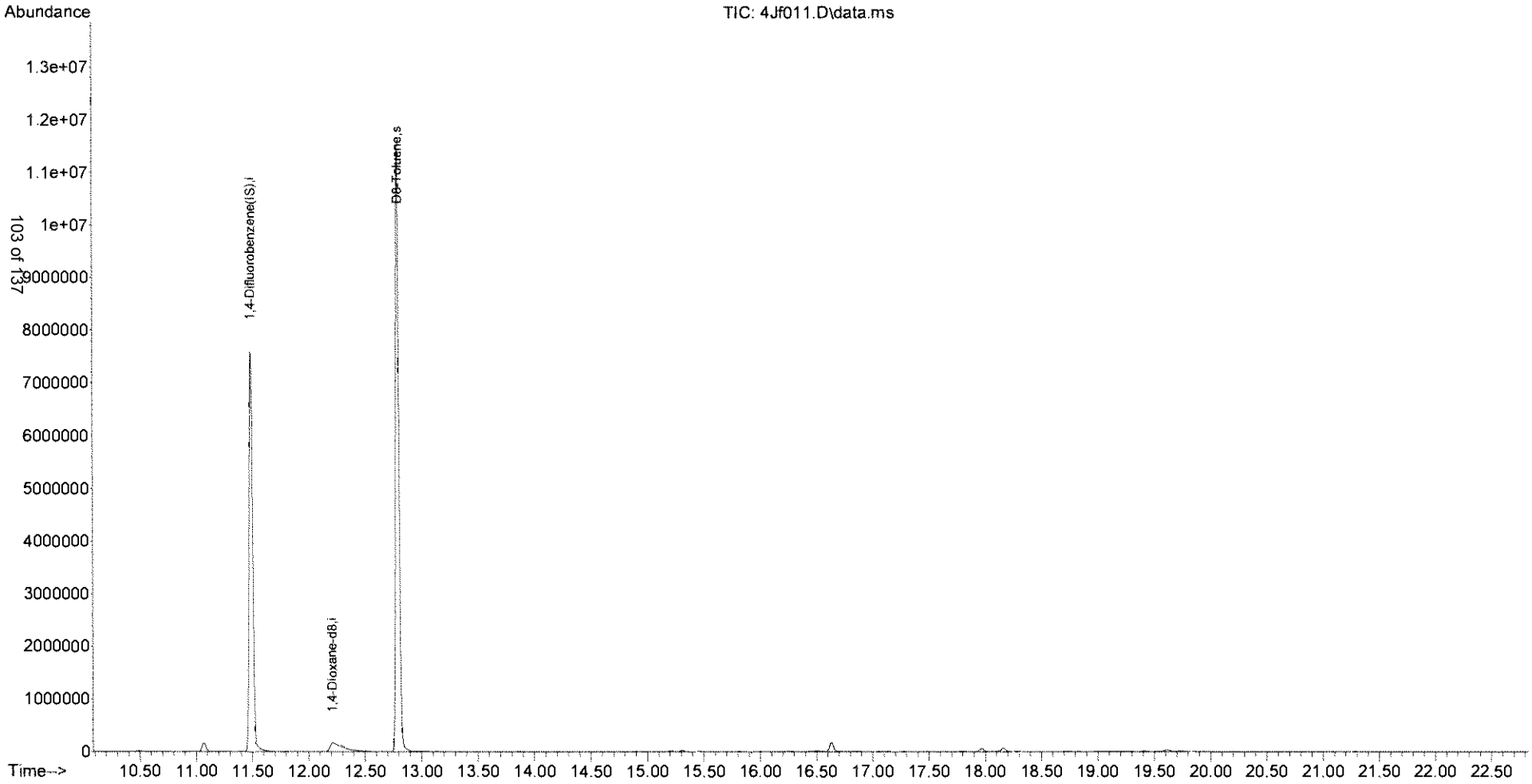
Internal Standards	R.T.	QIon	Response	Conc Units	Dev(Min)
1) 1,4-Difluorobenzene(IS)	11.498	114	12007460	5.000 ug/L	0.00
4) 1,4-Dioxane-d8	12.210	64	528638	50.000 ug/l	-0.04
System Monitoring Compounds					
2) D8-Toluene	12.797	98	12888222	5.127 ug/L	0.00
Spiked Amount 5.000	Range 79 - 127		Recovery = 102.540%		
Target Compounds					Qvalue
3) D8-Toluene	12.797	98	12888222	5.127 ug/L	99
5) 1,4-Dioxane	0.000	88	0	N.D. d	

(#) = qualifier out of range (m) = manual integration (+) = signals summed

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\DATA\101111\
Data File : 4Jf011.D
Acq On : 11 Oct 2011 20:15
Operator : kat
Sample : a105389-04
Misc :
ALS Vial : 11 Sample Multiplier: 1
InstName : OVGCMS4

Quant Time: Oct 12 10:31:07 2011
Quant Method : C:\msdchem\1\METHODS\METHODS\D1106015.M
Quant Title : ENCO SOPVGCMS/10;element cal 1106015
QLast Update : Mon Jun 13 12:21:39 2011
Response via : Initial Calibration



Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\DATA\101111\
Data File : 4Jf012.D
Acq On : 11 Oct 2011 20:51
Operator : kat
Sample : a105389-05
Misc :
ALS Vial : 12 Sample Multiplier: 1
InstName : OVGCMS4

RIX
ISTD's high?

Quant Time: Oct 12 10:31:23 2011
Quant Method : C:\msdchem\1\METHODS\METHODS\D1106015.M
Quant Title : ENCO SOPVGCMS/10;element cal 1106015
QLast Update : Mon Jun 13 12:21:39 2011
Response via : Initial Calibration

VT 10.12.11

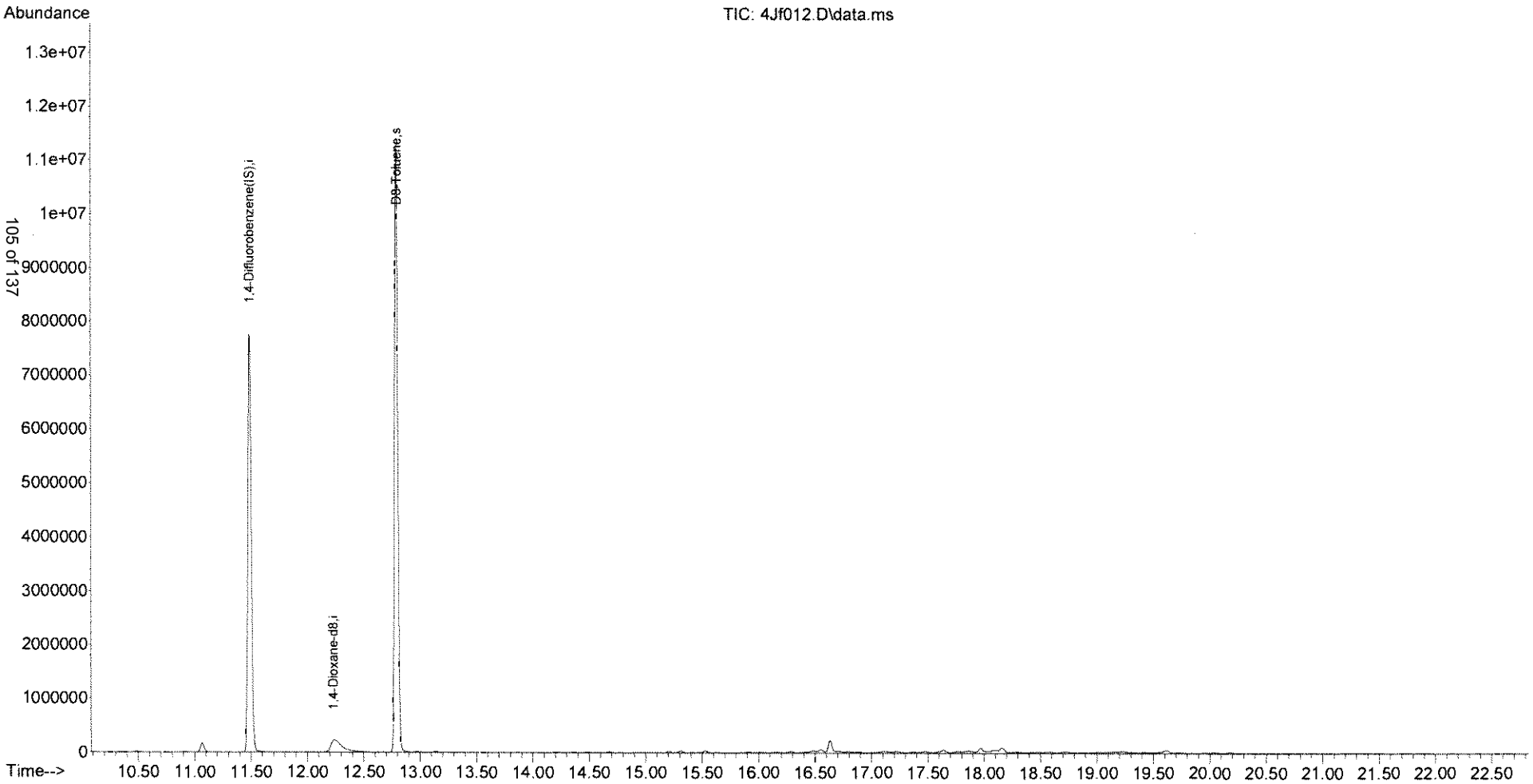
Internal Standards	R.T.	QIon	Response	Conc Units	Dev(Min)
1) 1,4-Difluorobenzene(IS)	11.498	114	11957172	5.000 ug/L	0.00
4) 1,4-Dioxane-d8	12.233	64	599994	50.000 ug/l	-0.02
System Monitoring Compounds					
2) D8-Toluene	12.797	98	13299919	5.313 ug/L	0.00
Spiked Amount 5.000	Range 79 - 127		Recovery	= 106.260%	
Target Compounds					Qvalue
3) D8-Toluene	12.797	98	13299919	5.313 ug/L	92
5) 1,4-Dioxane	0.000	88	0	N.D. d	

(#) = qualifier out of range (m) = manual integration (+) = signals summed

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\DATA\101111\
Data File : 4Jf012.D
Acq On : 11 Oct 2011 20:51
Operator : kat
Sample : a105389-05
Misc :
ALS Vial : 12 Sample Multiplier: 1
InstName : OVGCMS4

Quant Time: Oct 12 10:31:23 2011
Quant Method : C:\msdchem\1\METHODS\METHODS\D1106015.M
Quant Title : ENCO SOPVGCMS/10;element cal 1106015
QLast Update : Mon Jun 13 12:21:39 2011
Response via : Initial Calibration



Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\DATA\101111\
Data File : 4Jf013.D
Acq On : 11 Oct 2011 21:26
Operator : kat
Sample : a105389-06
Misc :
ALS Vial : 13 Sample Multiplier: 1
InstName : OVGCMS4

Quant Time: Oct 12 10:05:37 2011
Quant Method : C:\msdchem\1\METHODS\METHODS\D1106015.M
Quant Title : ENCO SOPVGCMS/10;element cal 1106015
QLast Update : Mon Jun 13 12:21:39 2011
Response via : Initial Calibration

RM
ISTD's high ?

KS
10.12.11

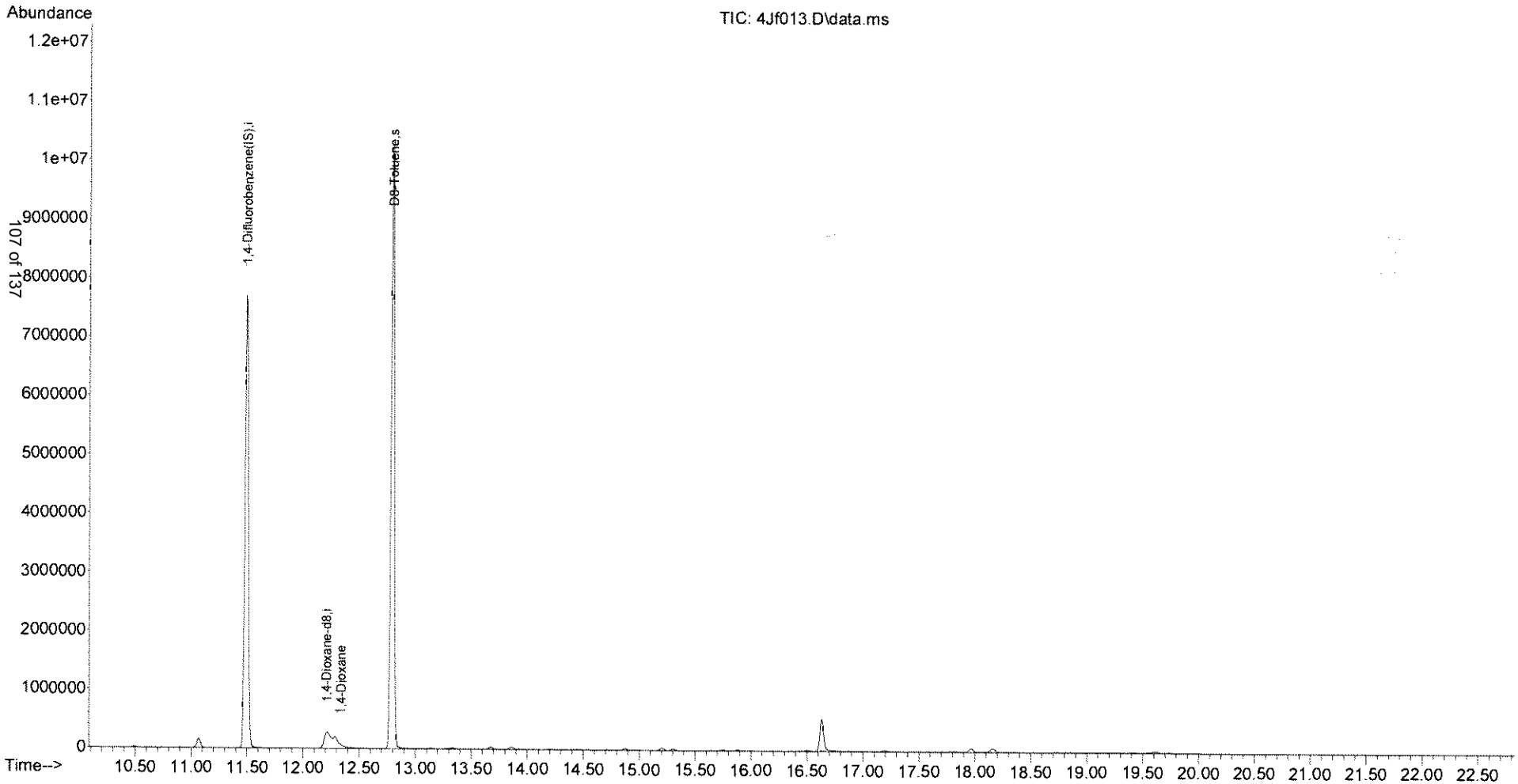
Internal Standards	R.T.	QIon	Response	Conc Units	Dev(Min)
1) 1,4-Difluorobenzene(IS)	11.497	114	11827479	5.000 ug/L	0.00
4) 1,4-Dioxane-d8	12.209	64	605792	50.000 ug/l	-0.04
System Monitoring Compounds					
2) D8-Toluene	12.797	98	11230732	4.536 ug/L	0.00
Spiked Amount 5.000	Range 79 - 127		Recovery = 90.720%		
Target Compounds					Qvalue
3) D8-Toluene	12.797	98	11230732	4.536 ug/L	96
5) 1,4-Dioxane	12.339	88	6549	0.335 ug/l #	1

(#) = qualifier out of range (m) = manual integration (+) = signals summed

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\DATA\101111\
Data File : 4Jf013.D
Acq On : 11 Oct 2011 21:26
Operator : kat
Sample : a105389-06
Misc :
ALS Vial : 13 Sample Multiplier: 1
InstName : OVGCMS4

Quant Time: Oct 12 10:05:37 2011
Quant Method : C:\msdchem\1\METHODS\METHODS\D1106015.M
Quant Title : ENCO SOPVGCMS/10;element cal 1106015
QLast Update : Mon Jun 13 12:21:39 2011
Response via : Initial Calibration



Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\DATA\101111\
Data File : 4Jf014.D
Acq On : 11 Oct 2011 22:01
Operator : kat
Sample : a105389-08
Misc :
ALS Vial : 14 Sample Multiplier: 1
InstName : OVGCMS4

RIX
ISDS High?

Quant Time: Oct 12 10:05:38 2011
Quant Method : C:\msdchem\1\METHODS\METHODS\D1106015.M
Quant Title : ENCO SOPVGCMS/10;element cal 1106015
QLast Update : Mon Jun 13 12:21:39 2011
Response via : Initial Calibration

VG 10.12.11

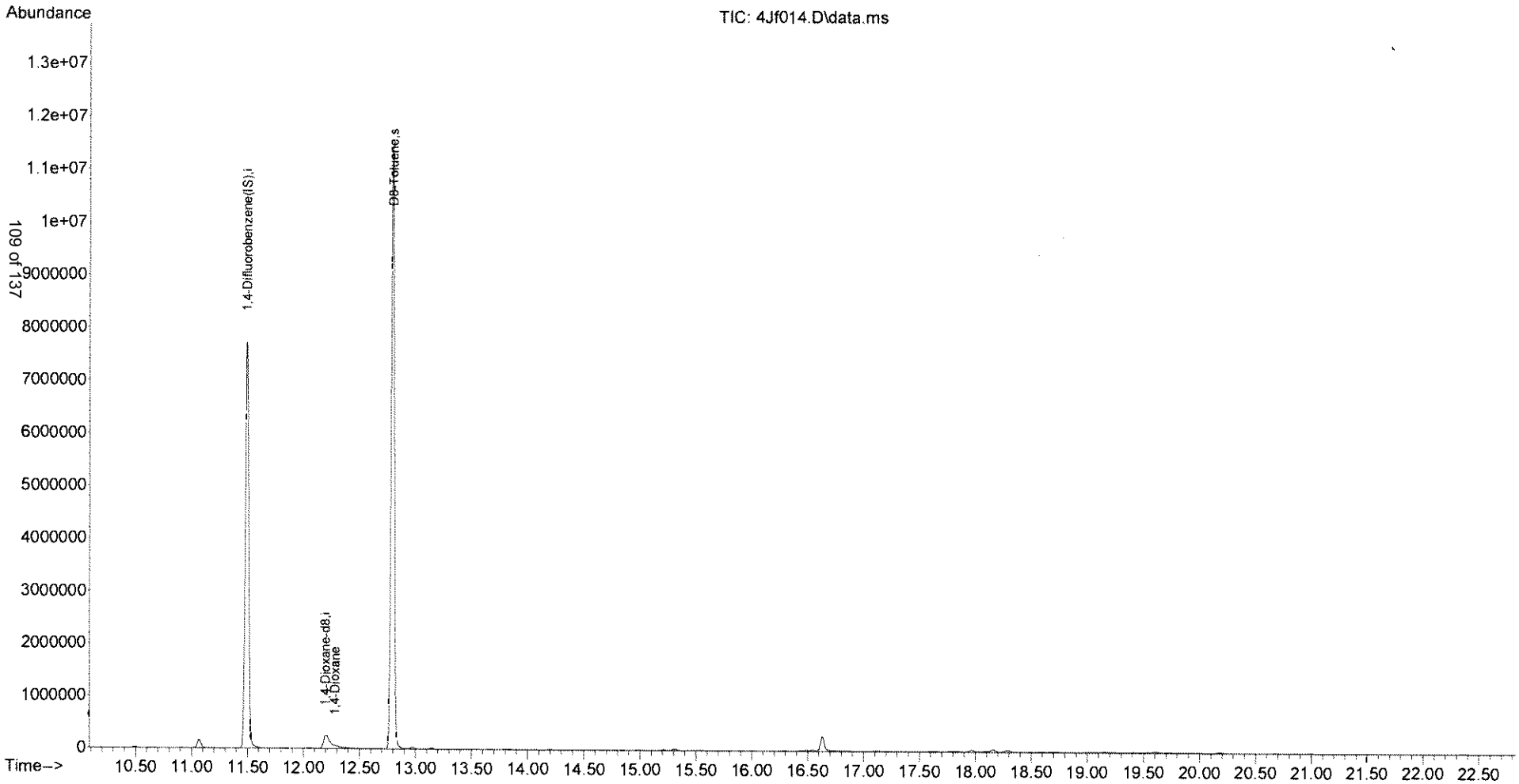
Internal Standards	R.T.	QIon	Response	Conc Units	Dev(Min)
1) 1,4-Difluorobenzene(IS)	11.498	114	12050952	5.000 ug/L	0.00
4) 1,4-Dioxane-d8	12.195	64	502868	50.000 ug/l	-0.06
System Monitoring Compounds					
2) D8-Toluene	12.797	98	12707147	5.037 ug/L	0.00
Spiked Amount 5.000	Range 79 - 127		Recovery = 100.740%		
Target Compounds					Qvalue
3) D8-Toluene	12.797	98	12707147	5.037 ug/L	98
5) 1,4-Dioxane	12.281	88	3022	0.186 ug/l #	1

(#) = qualifier out of range (m) = manual integration (+) = signals summed

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\DATA\101111\
Data File : 4Jf014.D
Acq On : 11 Oct 2011 22:01
Operator : kat
Sample : a105389-08
Misc :
ALS Vial : 14 Sample Multiplier: 1
InstName : OVGCMS4

Quant Time: Oct 12 10:05:38 2011
Quant Method : C:\msdchem\1\METHODS\METHODS\D1106015.M
Quant Title : ENCO SOPVGCMS/10;element cal 1106015
QLast Update : Mon Jun 13 12:21:39 2011
Response via : Initial Calibration



Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\DATA\101111\
Data File : 4Jf018.D
Acq On : 12 Oct 2011 12:49
Operator : kat
Sample : a105389-07re1
Misc :
ALS Vial : 18 Sample Multiplier: 1
InstName : OVGCMS4

Quant Time: Oct 12 14:23:33 2011
Quant Method : C:\msdchem\1\METHODS\METHODS\D1106015.M
Quant Title : ENCO SOPVGCMS/10;element cal 1106015
QLast Update : Mon Jun 13 12:21:39 2011
Response via : Initial Calibration

KT 10/14/11

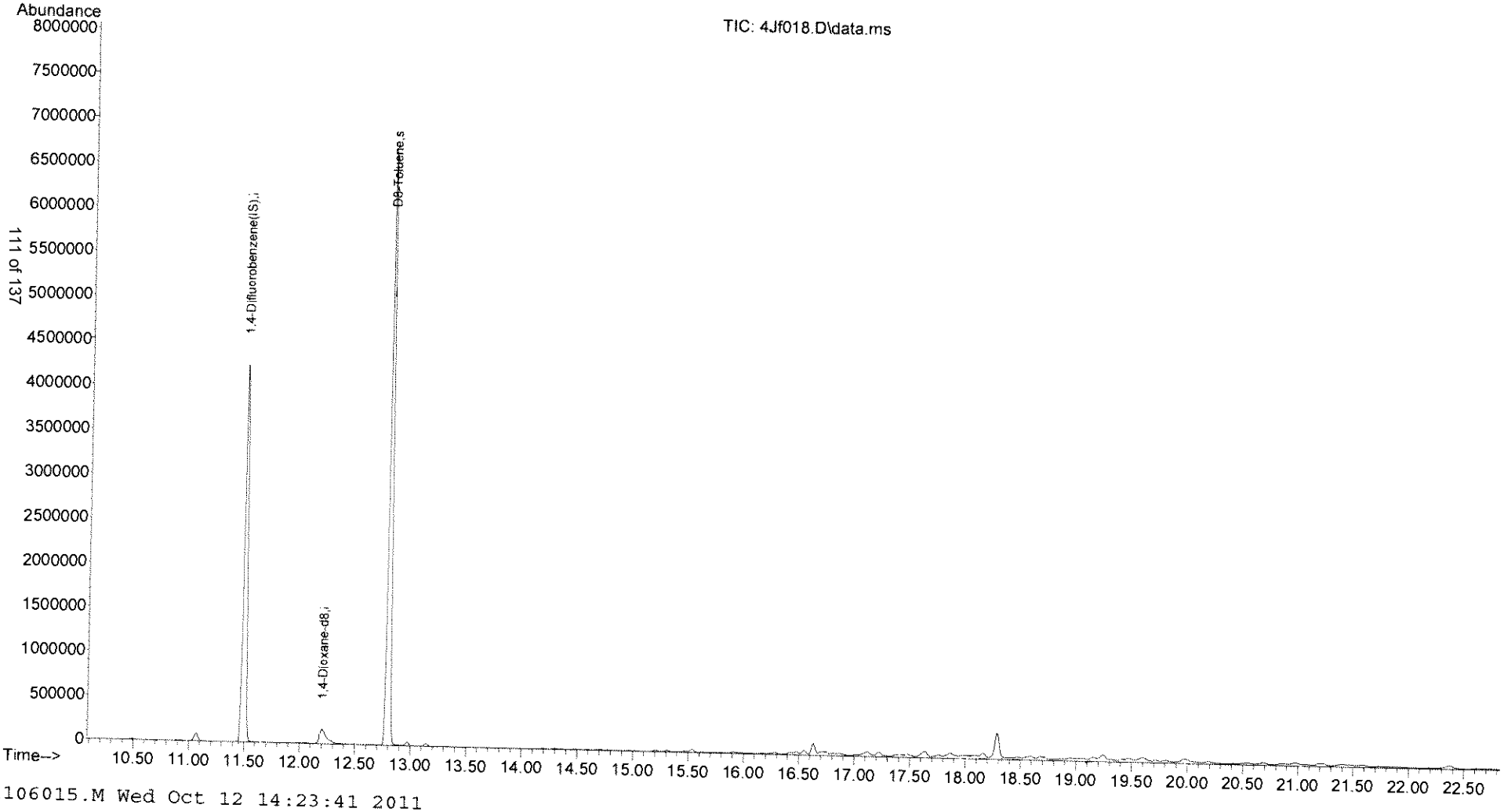
Internal Standards	R.T.	QIon	Response	Conc Units	Dev(Min)
1) 1,4-Difluorobenzene(IS)	11.498	114	6515490	5.000 ug/L	0.00
4) 1,4-Dioxane-d8	12.204	64	286527	50.000 ug/l	-0.05
System Monitoring Compounds					
2) D8-Toluene	12.797	98	7290866	5.345 ug/L	0.00
Spiked Amount 5.000	Range 79 - 127		Recovery	= 106.900%	
Target Compounds					Qvalue
3) D8-Toluene	12.797	98	7290866	5.345 ug/L	96
5) 1,4-Dioxane	0.000	88	0	N.D. d	

(#) = qualifier out of range (m) = manual integration (+) = signals summed

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\DATA\101111\
Data File : 4Jf018.D
Acq On : 12 Oct 2011 12:49
Operator : kat
Sample : a105389-07re1
Misc :
ALS Vial : 18 Sample Multiplier: 1
InstName : OVGCMS4

Quant Time: Oct 12 14:23:33 2011
Quant Method : C:\msdchem\1\METHODS\METHODS\D1106015.M
Quant Title : ENCO SOPVGCMS/10;element cal 1106015
QLast Update : Mon Jun 13 12:21:39 2011
Response via : Initial Calibration



Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\DATA\101111\
Data File : 4Jf019.D
Acq On : 12 Oct 2011 13:23
Operator : kat
Sample : a105389-01re1
Misc :
ALS Vial : 19 Sample Multiplier: 1
InstName : OVGCMS4

Quant Time: Oct 12 14:24:22 2011
Quant Method : C:\msdchem\1\METHODS\METHODS\D1106015.M
Quant Title : ENCO SOPVGCMS/10;element cal 1106015
QLast Update : Mon Jun 13 12:21:39 2011
Response via : Initial Calibration

LG 10/12/11

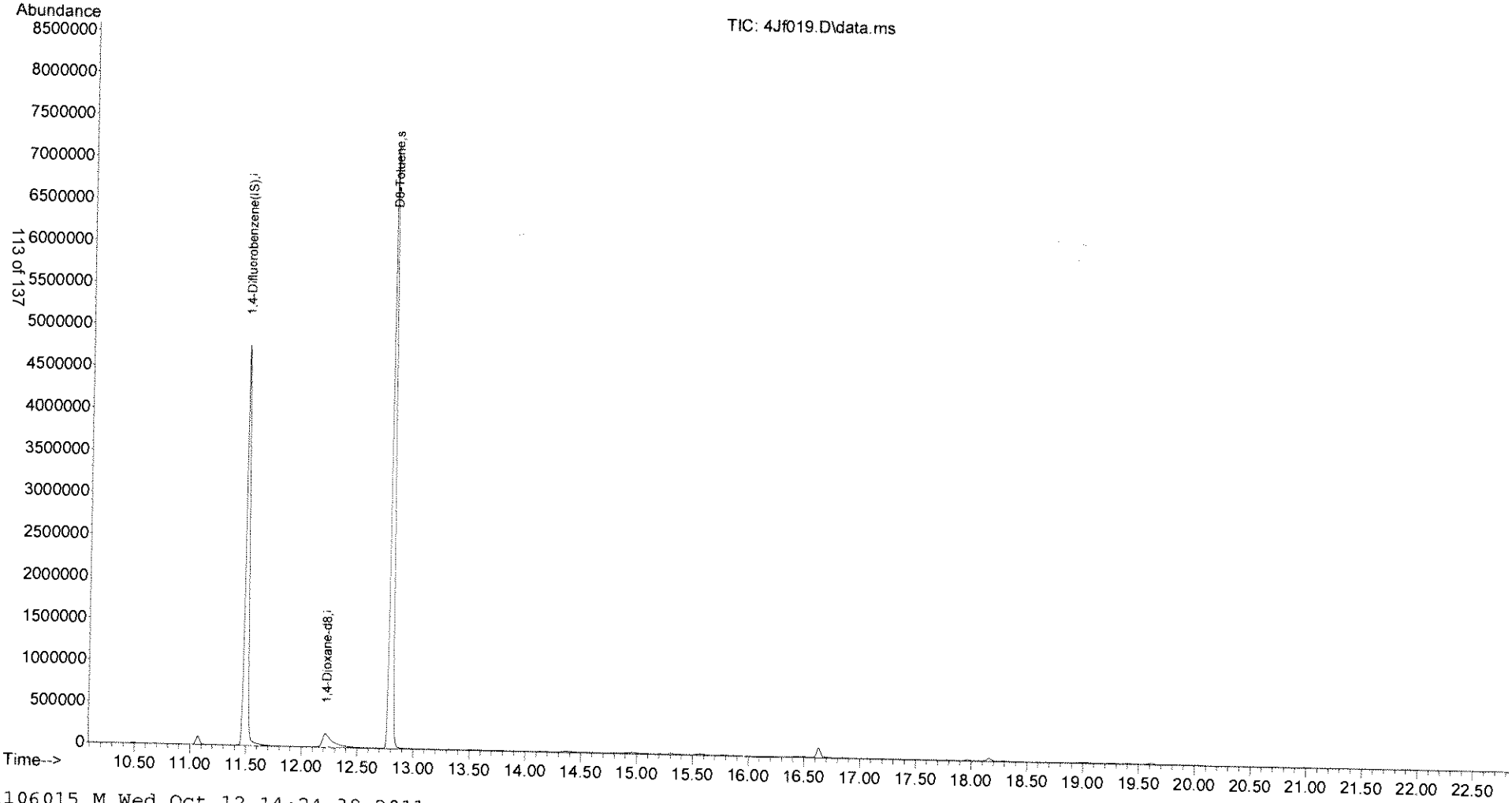
Internal Standards	R.T.	QIon	Response	Conc Units	Dev(Min)
1) 1,4-Difluorobenzene(IS)	11.498	114	7345006	5.000 ug/L	0.00
4) 1,4-Dioxane-d8	12.218	64	362270m	50.000 ug/l	-0.03
System Monitoring Compounds					
2) D8-Toluene	12.797	98	7927216	5.156 ug/L	0.00
Spiked Amount 5.000	Range 79 - 127		Recovery	= 103.120%	
Target Compounds					Qvalue
3) D8-Toluene	12.797	98	7927216	5.156 ug/L	96
5) 1,4-Dioxane	0.000	88	0	N.D. d	

(#) = qualifier out of range (m) = manual integration (+) = signals summed

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\DATA\101111\
Data File : 4Jf019.D
Acq On : 12 Oct 2011 13:23
Operator : kat
Sample : a105389-01re1
Misc :
ALS Vial : 19 Sample Multiplier: 1
InstName : OVGCMS4

Quant Time: Oct 12 14:24:22 2011
Quant Method : C:\msdchem\1\METHODS\METHODS\D1106015.M
Quant Title : ENCO SOPVGCMS/10;element cal 1106015
QLast Update : Mon Jun 13 12:21:39 2011
Response via : Initial Calibration

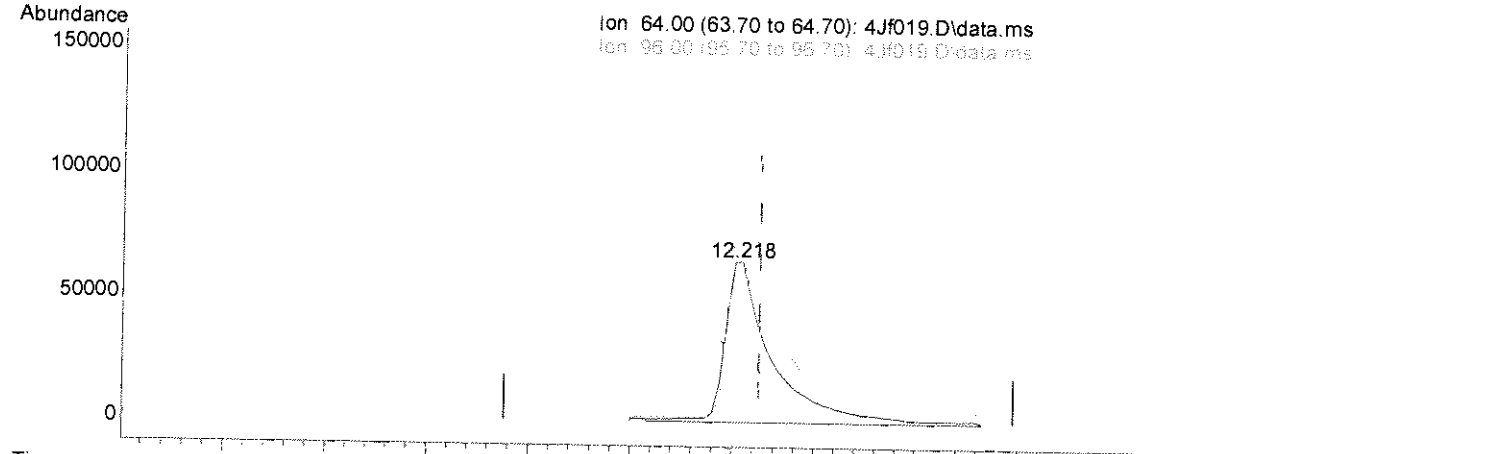


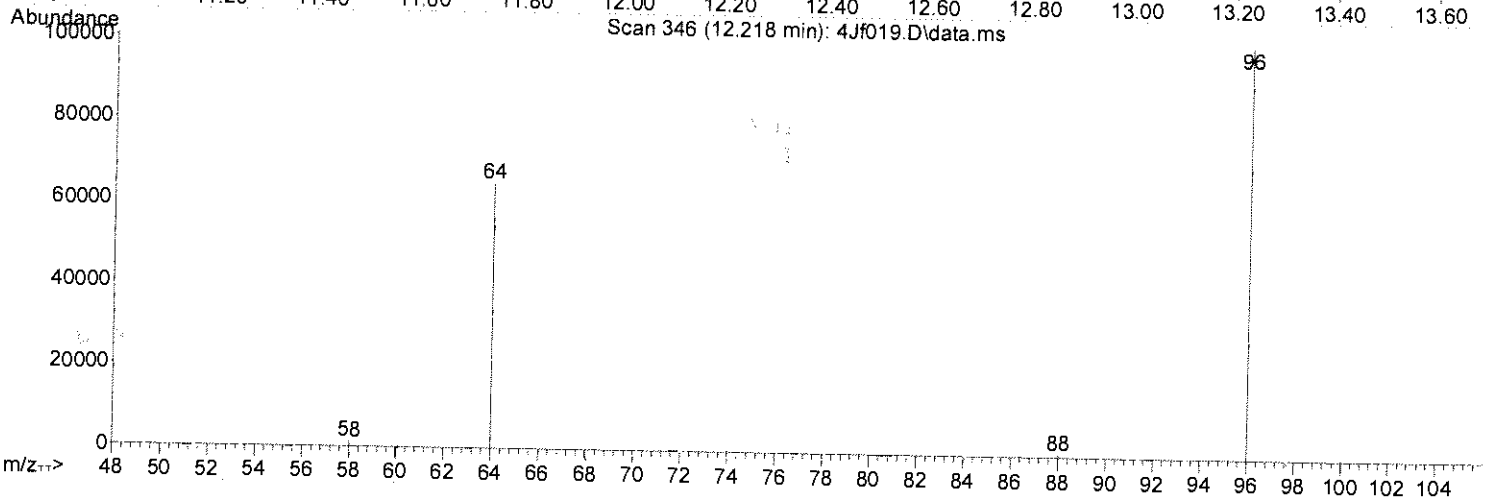
D1106015.M Wed Oct 12 14:24:39 2011

Quantitation Report (Qedit)

Data Path : C:\msdchem\1\DATA\101111\
Data File : 4Jf019.D
Acq On : 12 Oct 2011 13:23
Operator : kat
Sample : a105389-01re1
Misc :
ALS Vial : 19 Sample Multiplier: 1
InstName : OVGCMS4

Quant Time: Oct 12 14:23:47 2011
Quant Method : C:\msdchem\1\METHODS\METHODS\D1106015.M
Quant Title : ENCO SOPVGCMS/10;element cal 1106015
QLast Update : Mon Jun 13 12:21:39 2011
Response via : Initial Calibration





TIC: 4Jf019.D\data.ms

(4) 1,4-Dioxane-d8 (i)

12.218min (-0.034) 50.00ug/l

response 419804

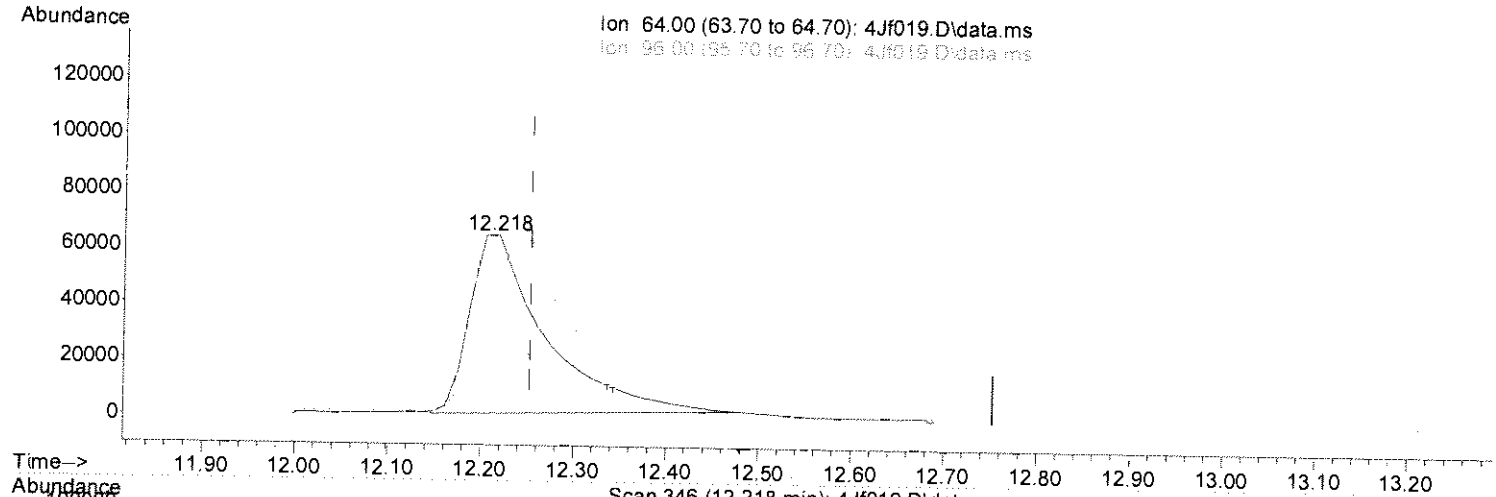
Ion	Exp%	Act%
64.00	100	100
96.00	144.20	152.48
0.00	0.00	0.00
0.00	0.00	0.00

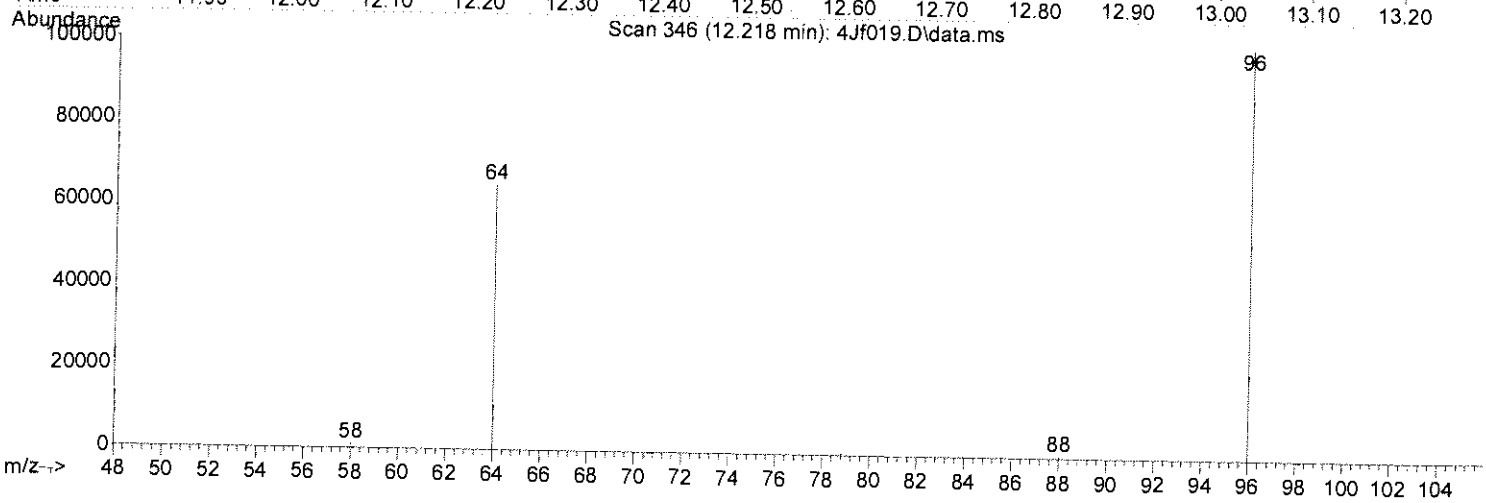
Select one:
[ ] Original integration [ ] Manual integration
Select reason for manual integration:
[ ] Poor integration (peak tailing, baseline selection)
[ ] Incorrect peak selection/Peak not found
[ ] Hump integration
[ ] Baseline drop for split peaks
[ ] ISTD reintegration
[ ] Other:
Review by/Date: KS 10/12/11
Review by/Date: KS 10-13-11

Quantitation Report (Qedit)

Data Path : C:\msdchem\1\DATA\101111\
Data File : 4Jf019.D
Acq On : 12 Oct 2011 13:23
Operator : kat
Sample : a105389-01re1
Misc :
ALS Vial : 19 Sample Multiplier: 1
InstName : OVGCMS4

Quant Time: Oct 12 14:23:47 2011
Quant Method : C:\msdchem\1\METHODS\METHODS\D1106015.M
Quant Title : ENCO SOPVGCMS/10;element cal 1106015
QLast Update : Mon Jun 13 12:21:39 2011
Response via : Initial Calibration





TIC: 4Jf019.D\data.ms

(4) 1,4-Dioxane-d8 (i)

12.218min (+0.034) 50.00ug/l m

response 362270

Ion	Exp%	Act%
64.00	100	100
96.00	144.20	176.70#
0.00	0.00	0.00
0.00	0.00	0.00

Select one:
[ ] Original integration [✓] Manual integration
Select reason for manual integration:
[ ] Poor integration (peak tailing, baseline selection)
[ ] Incorrect peak selection/Peak not found
[ ] Hump integration
[ ] Baseline drop for split peaks
[✓] ISTD reintegration
[ ] Other:
Review by/Date: LST 10/12/11
Review by/Date: KS 10-13-11

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\DATA\101111\
Data File : 4Jf020.D
Acq On : 12 Oct 2011 14:00
Operator : kat
Sample : a105389-02re1
Misc :
ALS Vial : 20 Sample Multiplier: 1
InstName : OVGCMS4

Quant Time: Oct 12 14:25:36 2011
Quant Method : C:\msdchem\1\METHODS\METHODS\D1106015.M
Quant Title : ENCO SOPVGCMS/10;element cal 1106015
QLast Update : Mon Jun 13 12:21:39 2011
Response via : Initial Calibration

KAT 10 13 11

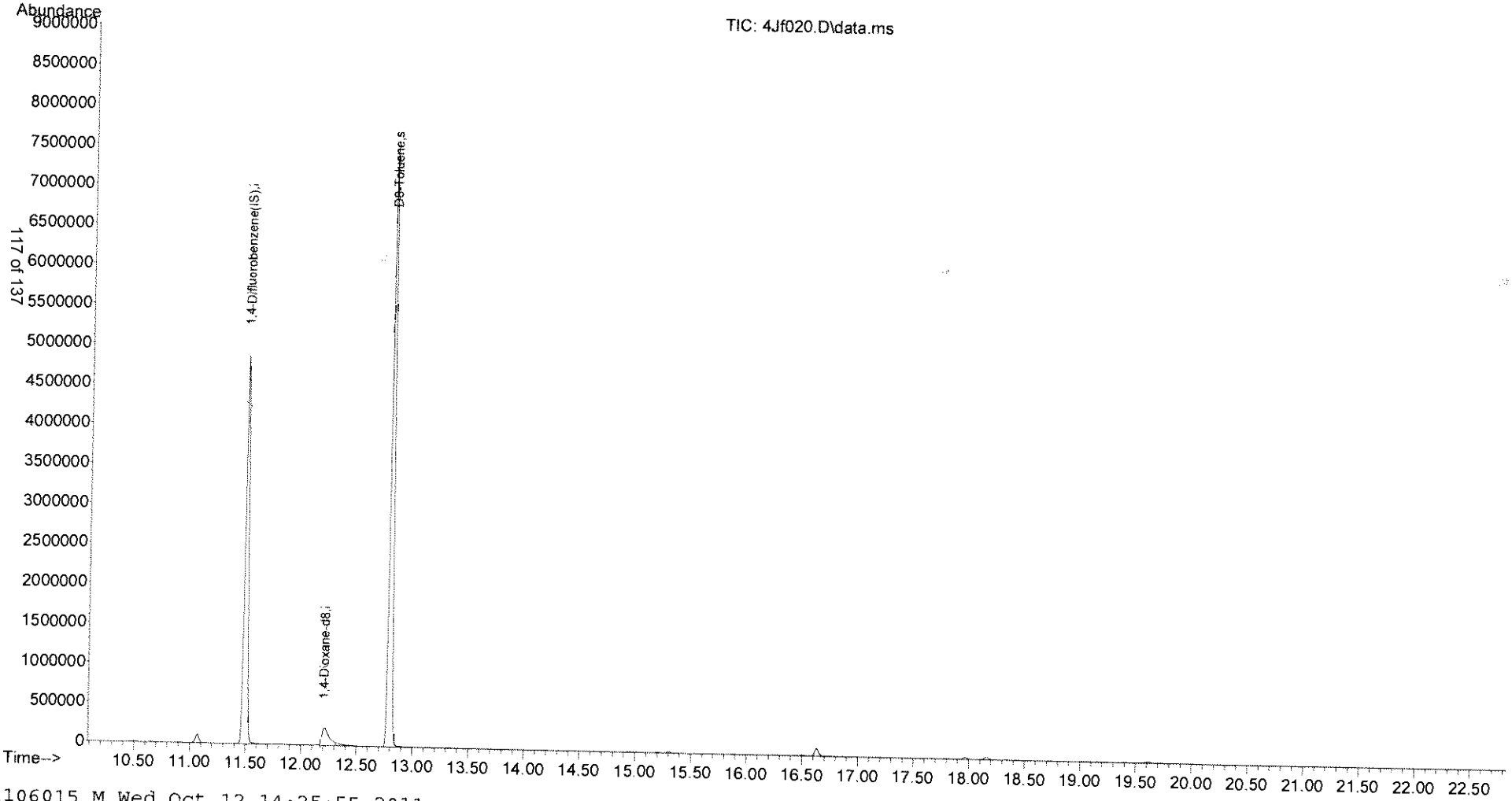
Internal Standards	R.T.	QIon	Response	Conc Units	Dev(Min)
1) 1,4-Difluorobenzene(IS)	11.492	114	7430087	5.000 ug/L	0.00
4) 1,4-Dioxane-d8	12.204	64	373490m	50.000 ug/l	-0.05
System Monitoring Compounds					
2) D8-Toluene	12.797	98	8270747	5.317 ug/L	0.00
Spiked Amount 5.000	Range 79 - 127		Recovery	= 106.340%	
Target Compounds					Qvalue
3) D8-Toluene	12.797	98	8270747	5.317 ug/L	96
5) 1,4-Dioxane	0.000	88	0	N.D. d	

(#) = qualifier out of range (m) = manual integration (+) = signals summed

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\DATA\101111\
Data File : 4Jf020.D
Acq On : 12 Oct 2011 14:00
Operator : kat
Sample : a105389-02re1
Misc :
ALS Vial : 20 Sample Multiplier: 1
InstName : OVGCMS4

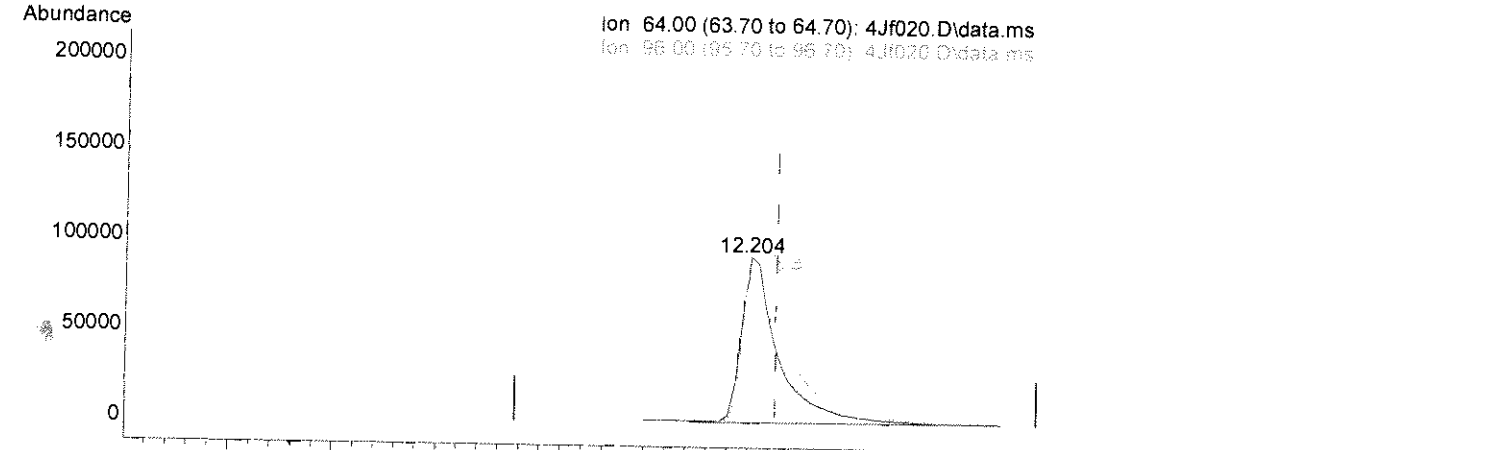
Quant Time: Oct 12 14:25:36 2011
Quant Method : C:\msdchem\1\METHODS\METHODS\D1106015.M
Quant Title : ENCO SOPVGCMS/10;element cal 1106015
QLast Update : Mon Jun 13 12:21:39 2011
Response via : Initial Calibration

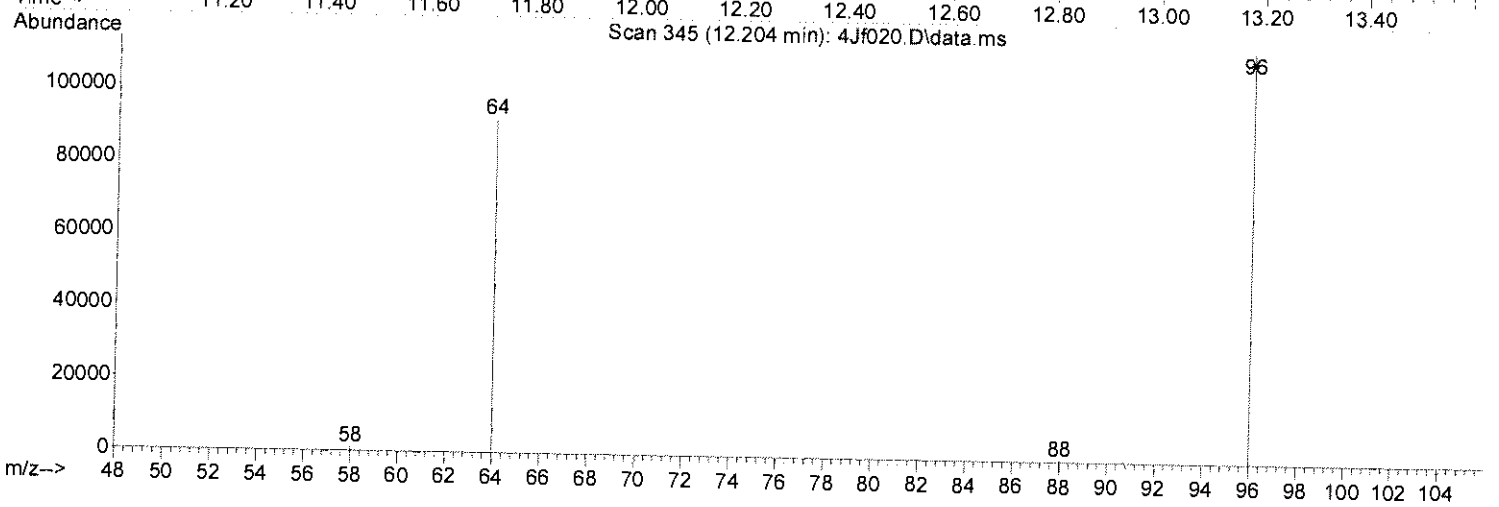


Quantitation Report (Qedit)

Data Path : C:\msdchem\1\DATA\101111\
Data File : 4Jf020.D
Acq On : 12 Oct 2011 14:00
Operator : kat
Sample : a105389-02re1
Misc :
ALS Vial : 20 Sample Multiplier: 1
InstName : OVGCMS4

Quant Time: Oct 12 14:24:47 2011
Quant Method : C:\msdchem\1\METHODS\METHODS\D1106015.M
Quant Title : ENCO SOPVGCMS/10;element cal 1106015
QLast Update : Mon Jun 13 12:21:39 2011
Response via : Initial Calibration





TIC: 4Jf020.D\data.ms

(4) 1,4-Dioxane-d8 (i)

12.204min (-0.049) 50.00ug/l

response 457676

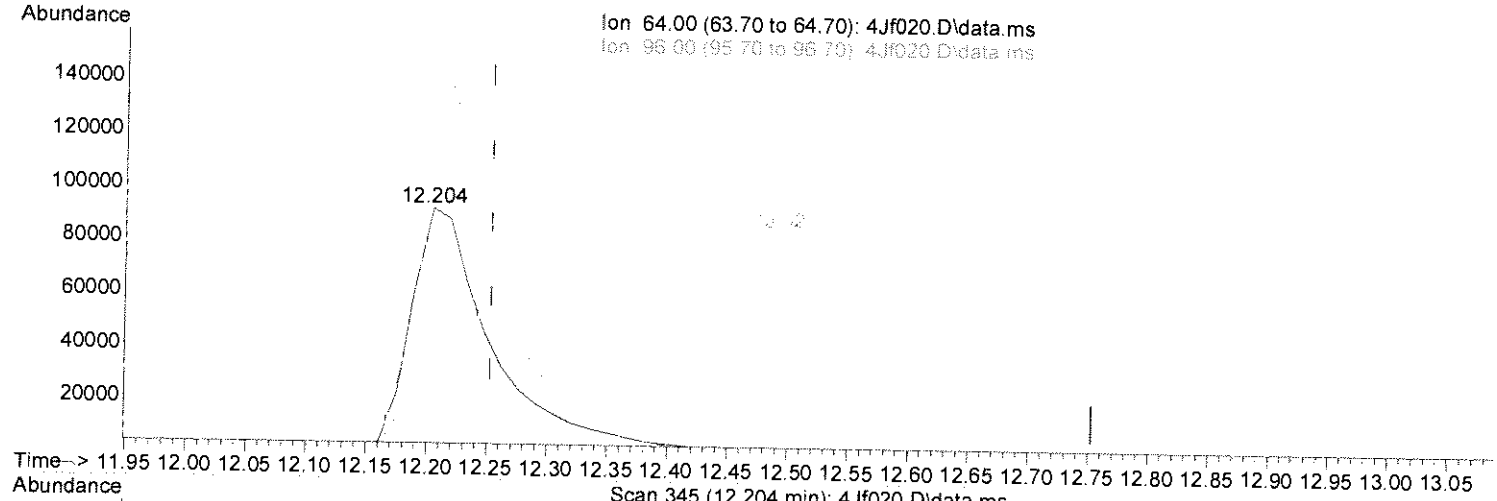
Ion	Exp%	Act%
64.00	100	100
96.00	144.20	149.92
0.00	0.00	0.00
0.00	0.00	0.00

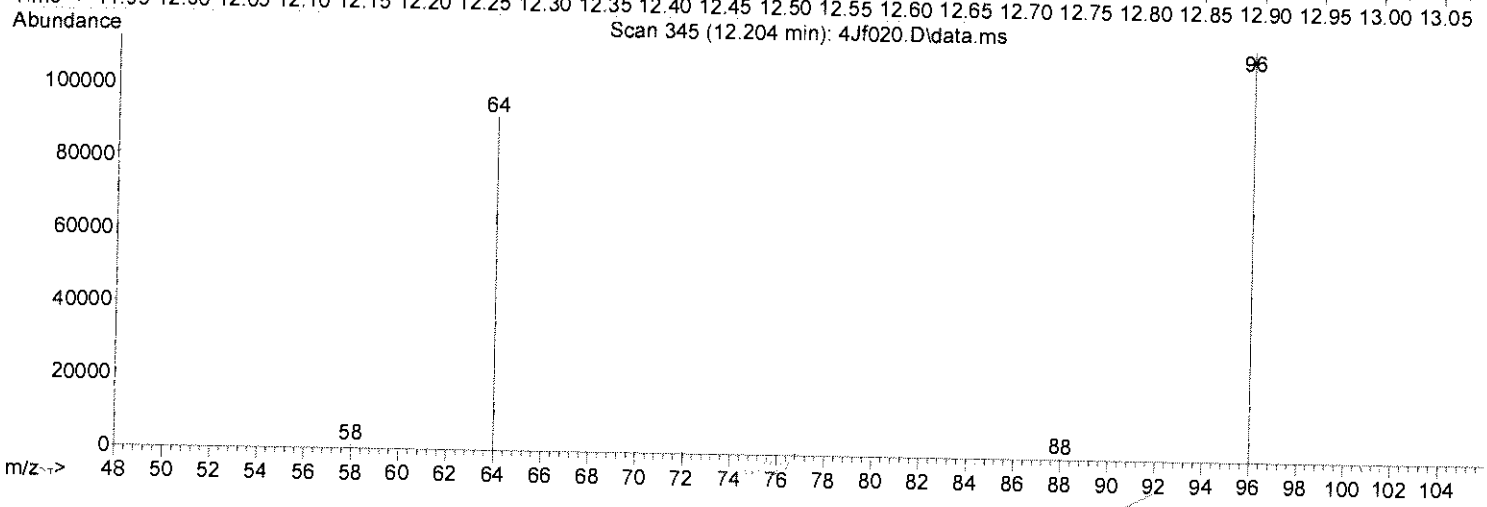
Select one:
[✓] Original integration [ ] Manual integration
Select reason for manual integration:
[ ] Poor integration (peak tailing, baseline selection)
[ ] Incorrect peak selection/Peak not found
[ ] Hump integration
[ ] Baseline drop for split peaks
[ ] ISTD reintegration
[ ] Other:
Review by/Date: 10/12/11
Review by/Date: 10-13-11

Quantitation Report (Qedit)

Data Path : C:\msdchem\1\DATA\101111\
Data File : 4Jf020.D
Acq On : 12 Oct 2011 14:00
Operator : kat
Sample : a105389-02rel
Misc :
ALS Vial : 20 Sample Multiplier: 1
InstName : OVGCMS4

Quant Time: Oct 12 14:24:47 2011
Quant Method : C:\msdchem\1\METHODS\METHODS\D1106015.M
Quant Title : ENCO SOPVGCMS/10;element cal 1106015
QLast Update : Mon Jun 13 12:21:39 2011
Response via : Initial Calibration





TIC: 4Jf020.D\data.ms

(4) 1,4-Dioxane-d8 (i)

12.204min (-0.049) 50.00ug/l m

response 373490

Ion	Exp%	Act%
64.00	100	100
96.00	144.20	183.71#
0.00	0.00	0.00
0.00	0.00	0.00

Select one:
[ ] Original integration [✓] Manual integration
Select reason for manual integration:
[ ] Poor integration (peak tailing, baseline selection)
[ ] Incorrect peak selection/Peak not found
[ ] Hump integration
[ ] Baseline drop for split peaks
[✓] ISTD reintegration
[ ] Other:
Review by/Date: VG 10/12/11
Review by/Date: KB 10-13-11

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\DATA\101111\
Data File : 4Jf021.D
Acq On : 12 Oct 2011 14:37
Operator : kat
Sample : a105389-03re1
Misc :
ALS Vial : 21 Sample Multiplier: 1
InstName : OVGCMS4

Quant Time: Oct 13 10:11:06 2011
Quant Method : C:\msdchem\1\METHODS\METHODS\D1106015.M
Quant Title : ENCO SOPVGCMS/10;element cal 1106015
QLast Update : Mon Jun 13 12:21:39 2011
Response via : Initial Calibration

WAT 10 13 11

Internal Standards	R.T.	QIon	Response	Conc Units	Dev(Min)
1) 1,4-Difluorobenzene(IS)	11.492	114	7486287	5.000 ug/L	0.00
4) 1,4-Dioxane-d8	12.247	64	583978	50.000 ug/l	0.00
System Monitoring Compounds					
2) D8-Toluene	12.797	98	8414359	5.369 ug/L	0.00
Spiked Amount 5.000	Range 79 - 127		Recovery	= 107.380%	
Target Compounds					Qvalue
3) D8-Toluene	12.797	98	8414359	5.369 ug/L	96
5) 1,4-Dioxane	0.000	88	0	N.D. d	

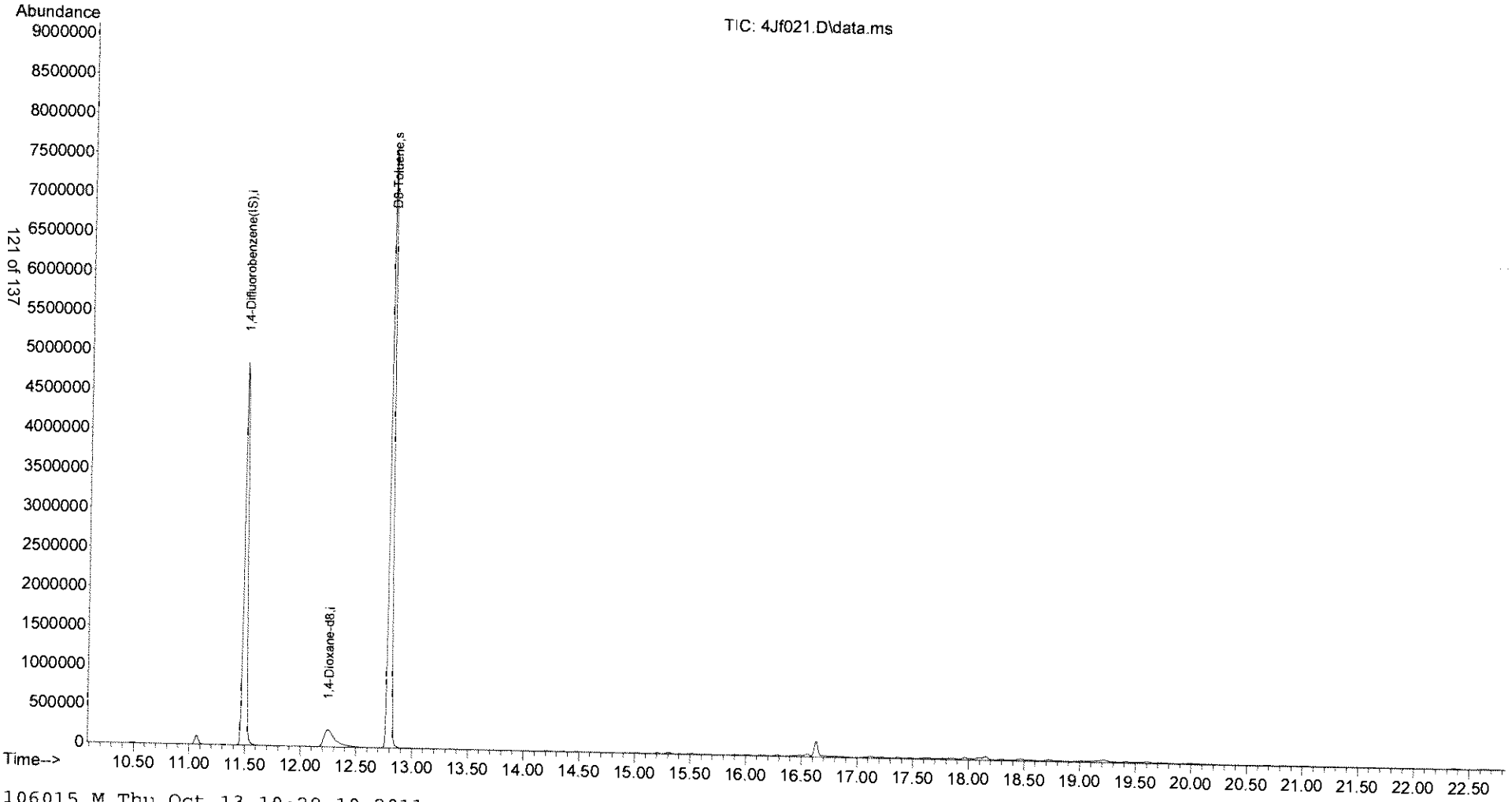
ISTD High

(#) = qualifier out of range (m) = manual integration (+) = signals summed

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\DATA\101111\
Data File : 4Jf021.D
Acq On : 12 Oct 2011 14:37
Operator : kat
Sample : a105389-03re1
Misc :
ALS Vial : 21 Sample Multiplier: 1
InstName : OVGCMS4

Quant Time: Oct 13 10:11:06 2011
Quant Method : C:\msdchem\1\METHODS\METHODS\D1106015.M
Quant Title : ENCO SOPVGCMS/10;element cal 1106015
QLast Update : Mon Jun 13 12:21:39 2011
Response via : Initial Calibration



D1106015.M Thu Oct 13 10:29:10 2011

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\DATA\101111\
Data File : 4Jf022.D
Acq On : 12 Oct 2011 15:14
Operator : kat
Sample : a105389-04re1
Misc :
ALS Vial : 22 Sample Multiplier: 1
InstName : OVGCMS4

Quant Time: Oct 13 10:11:25 2011
Quant Method : C:\msdchem\1\METHODS\METHODS\D1106015.M
Quant Title : ENCO SOPVGCMS/10;element cal 1106015
QLast Update : Mon Jun 13 12:21:39 2011
Response via : Initial Calibration

KG 10/13/11
ISTD high

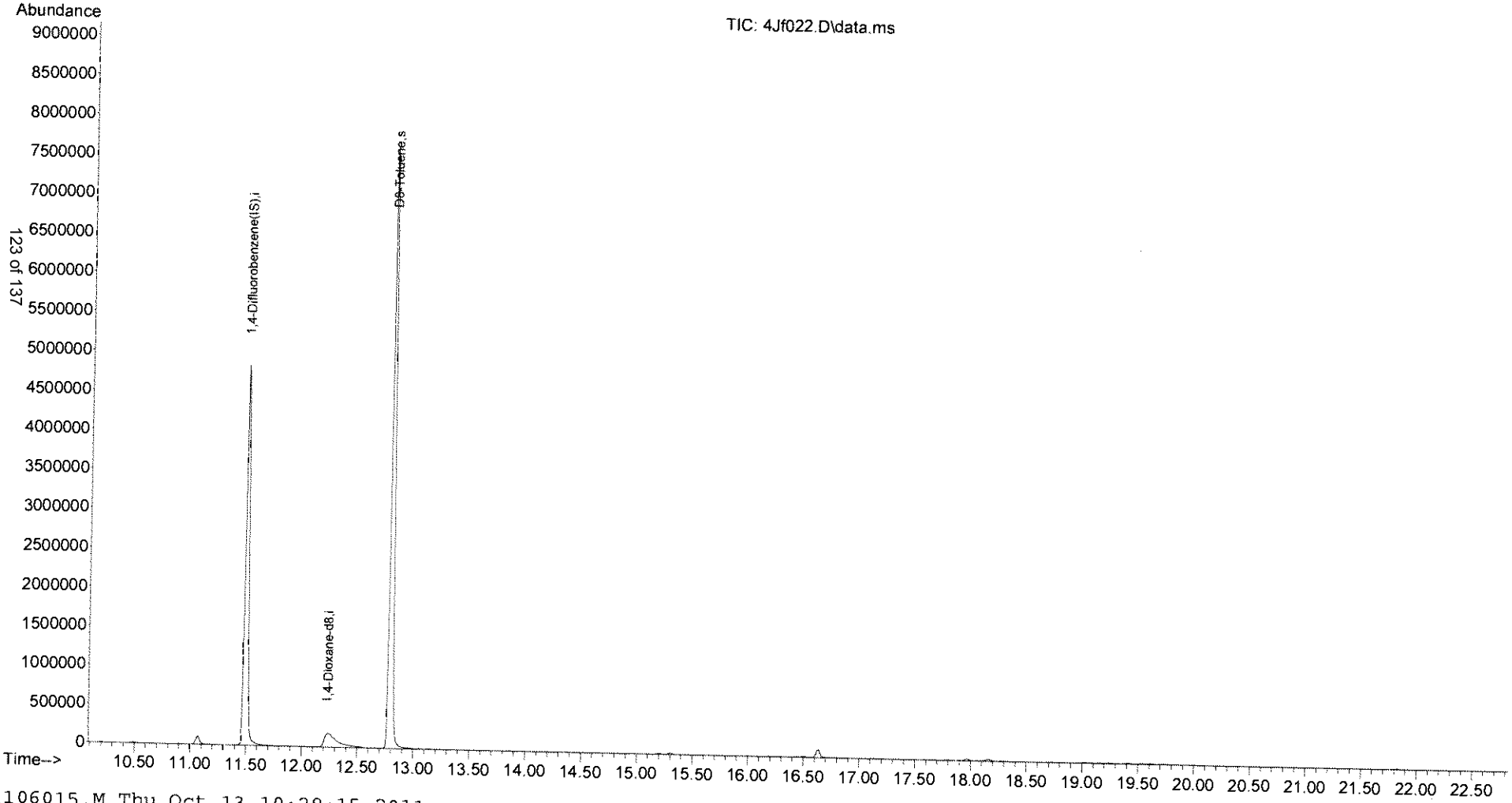
Internal Standards	R.T.	QIon	Response	Conc Units	Dev(Min)
1) 1,4-Difluorobenzene(IS)	11.492	114	7611088	5.000 ug/L	0.00
4) 1,4-Dioxane-d8	12.233	64	544054	50.000 ug/l	-0.02
System Monitoring Compounds					
2) D8-Toluene	12.797	98	8665544	5.439 ug/L	0.00
Spiked Amount 5.000	Range 79 - 127		Recovery	= 108.780%	
Target Compounds					Qvalue
3) D8-Toluene	12.797	98	8665544	5.439 ug/L	96
5) 1,4-Dioxane	0.000	88	0	N.D. d	

(#) = qualifier out of range (m) = manual integration (+) = signals summed

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\DATA\101111\
Data File : 4Jf022.D
Acq On : 12 Oct 2011 15:14
Operator : kat
Sample : a105389-04re1
Misc :
ALS Vial : 22 Sample Multiplier: 1
InstName : OVGCMS4

Quant Time: Oct 13 10:11:25 2011
Quant Method : C:\msdchem\1\METHODS\METHODS\D1106015.M
Quant Title : ENCO SOPVGCMS/10;element cal 1106015
QLast Update : Mon Jun 13 12:21:39 2011
Response via : Initial Calibration



Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\DATA\101111\
Data File : 4Jf023.D
Acq On : 12 Oct 2011 15:49
Operator : kat
Sample : a105389-05rel
Misc :
ALS Vial : 23 Sample Multiplier: 1
InstName : OVGCMS4

Quant Time: Oct 13 10:11:42 2011
Quant Method : C:\msdchem\1\METHODS\METHODS\D1106015.M
Quant Title : ENCO SOPVGCMS/10;element cal 1106015
QLast Update : Mon Jun 13 12:21:39 2011
Response via : Initial Calibration

KAT 10.13.11

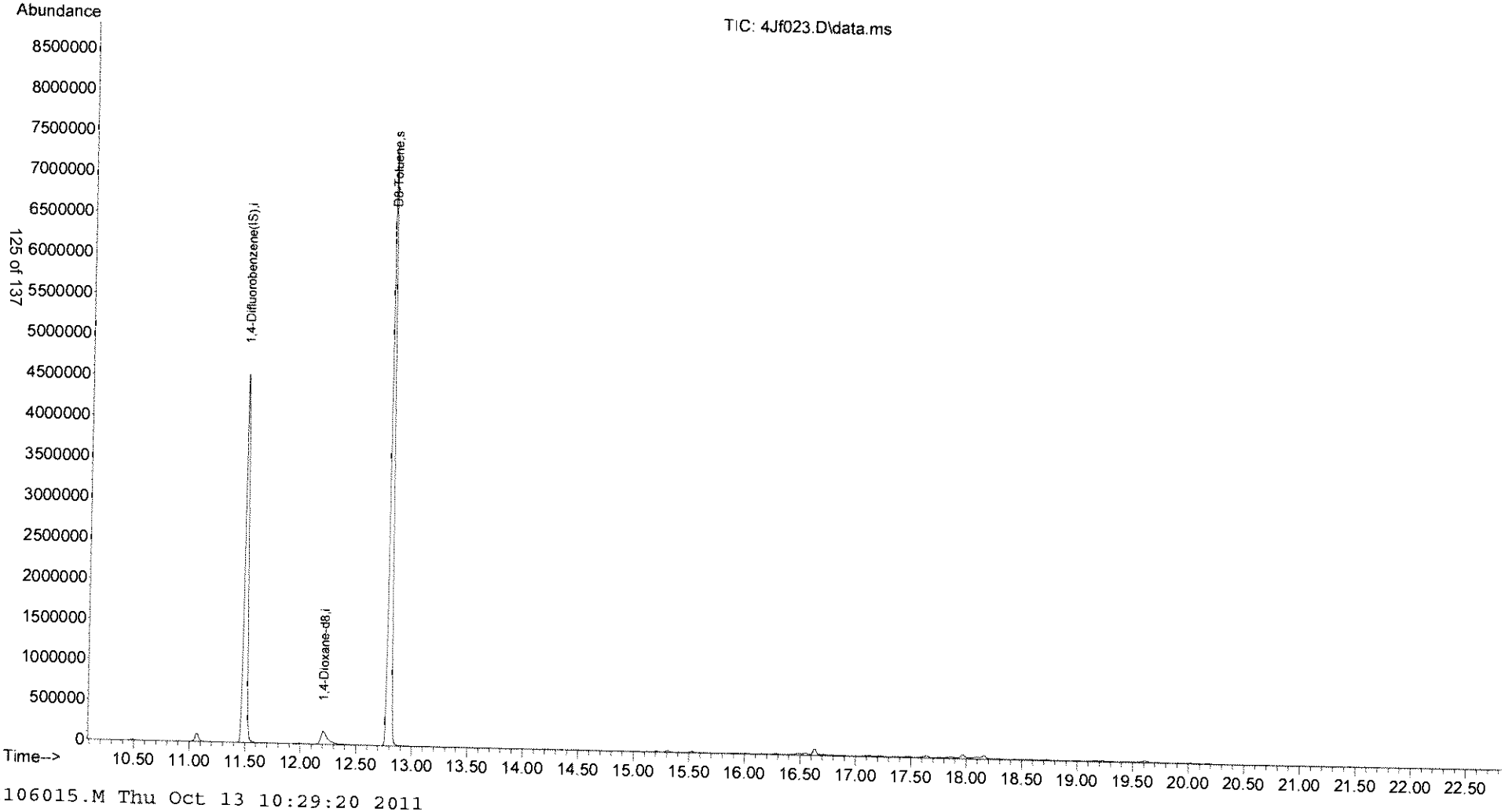
Internal Standards	R.T.	QIon	Response	Conc Units	Dev(Min)
1) 1,4-Difluorobenzene(IS)	11.498	114	6984901	5.000 ug/L	0.00
4) 1,4-Dioxane-d8	12.204	64	279063	50.000 ug/l	-0.05
System Monitoring Compounds					
2) D8-Toluene	12.797	98	7989980	5.464 ug/L	0.00
Spiked Amount 5.000	Range 79 - 127		Recovery	= 109.280%	
Target Compounds					Qvalue
3) D8-Toluene	12.797	98	7989980	5.464 ug/L	96
5) 1,4-Dioxane	0.000	88	0	N.D. d	

(#) = qualifier out of range (m) = manual integration (+) = signals summed

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\DATA\101111\
Data File : 4Jf023.D
Acq On : 12 Oct 2011 15:49
Operator : kat
Sample : a105389-05re1
Misc :
ALS Vial : 23 Sample Multiplier: 1
InstName : OVGCMS4

Quant Time: Oct 13 10:11:42 2011
Quant Method : C:\msdchem\1\METHODS\METHODS\D1106015.M
Quant Title : ENCO SOPVGCMS/10;element cal 1106015
QLast Update : Mon Jun 13 12:21:39 2011
Response via : Initial Calibration



D1106015.M Thu Oct 13 10:29:20 2011

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\DATA\101111\
Data File : 4Jf024.D
Acq On : 12 Oct 2011 16:24
Operator : kat
Sample : a105389-06re1
Misc :
ALS Vial : 24 Sample Multiplier: 1
InstName : OVGCMS4

Quant Time: Oct 13 10:11:59 2011
Quant Method : C:\msdchem\1\METHODS\METHODS\D1106015.M
Quant Title : ENCO SOPVGCMS/10;element cal 1106015
QLast Update : Mon Jun 13 12:21:39 2011
Response via : Initial Calibration

VAT 101311

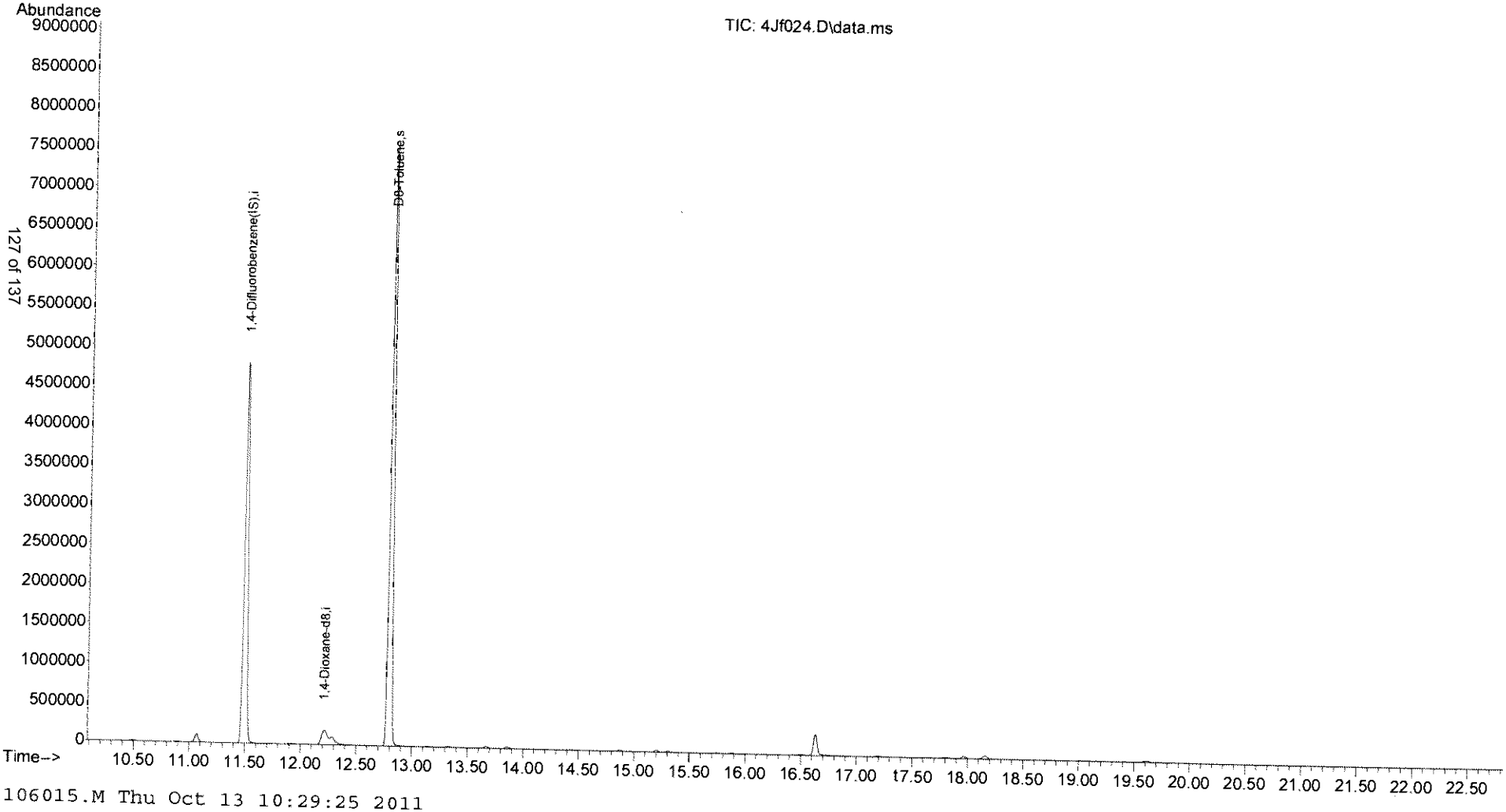
Internal Standards	R.T.	QIon	Response	Conc Units	Dev(Min)
1) 1,4-Difluorobenzene(IS)	11.497	114	7391148	5.000 ug/L	0.00
4) 1,4-Dioxane-d8	12.209	64	323611	50.000 ug/l	-0.04
System Monitoring Compounds					
2) D8-Toluene	12.797	98	8286391	5.356 ug/L	0.00
Spiked Amount 5.000	Range 79 - 127		Recovery	= 107.120%	
Target Compounds					Qvalue
3) D8-Toluene	12.797	98	8286391	5.356 ug/L	96
5) 1,4-Dioxane	0.000	88	0	N.D. d	

(#) = qualifier out of range (m) = manual integration (+) = signals summed

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\DATA\101111\
Data File : 4Jf024.D
Acq On : 12 Oct 2011 16:24
Operator : kat
Sample : a105389-06re1
Misc :
ALS Vial : 24 Sample Multiplier: 1
InstName : OVGCMS4

Quant Time: Oct 13 10:11:59 2011
Quant Method : C:\msdchem\1\METHODS\METHODS\D1106015.M
Quant Title : ENCO SOPVGCMS/10;element cal 1106015
QLast Update : Mon Jun 13 12:21:39 2011
Response via : Initial Calibration



Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\DATA\101111\
Data File : 4Jf025.D
Acq On : 12 Oct 2011 17:00
Operator : kat
Sample : a105389-08re1
Misc :
ALS Vial : 25 Sample Multiplier: 1
InstName : OVGCMS4

Quant Time: Oct 13 10:12:14 2011
Quant Method : C:\msdchem\1\METHODS\METHODS\D1106015.M
Quant Title : ENCO SOPVGCMS/10;element cal 1106015
QLast Update : Mon Jun 13 12:21:39 2011
Response via : Initial Calibration

LAT 101311

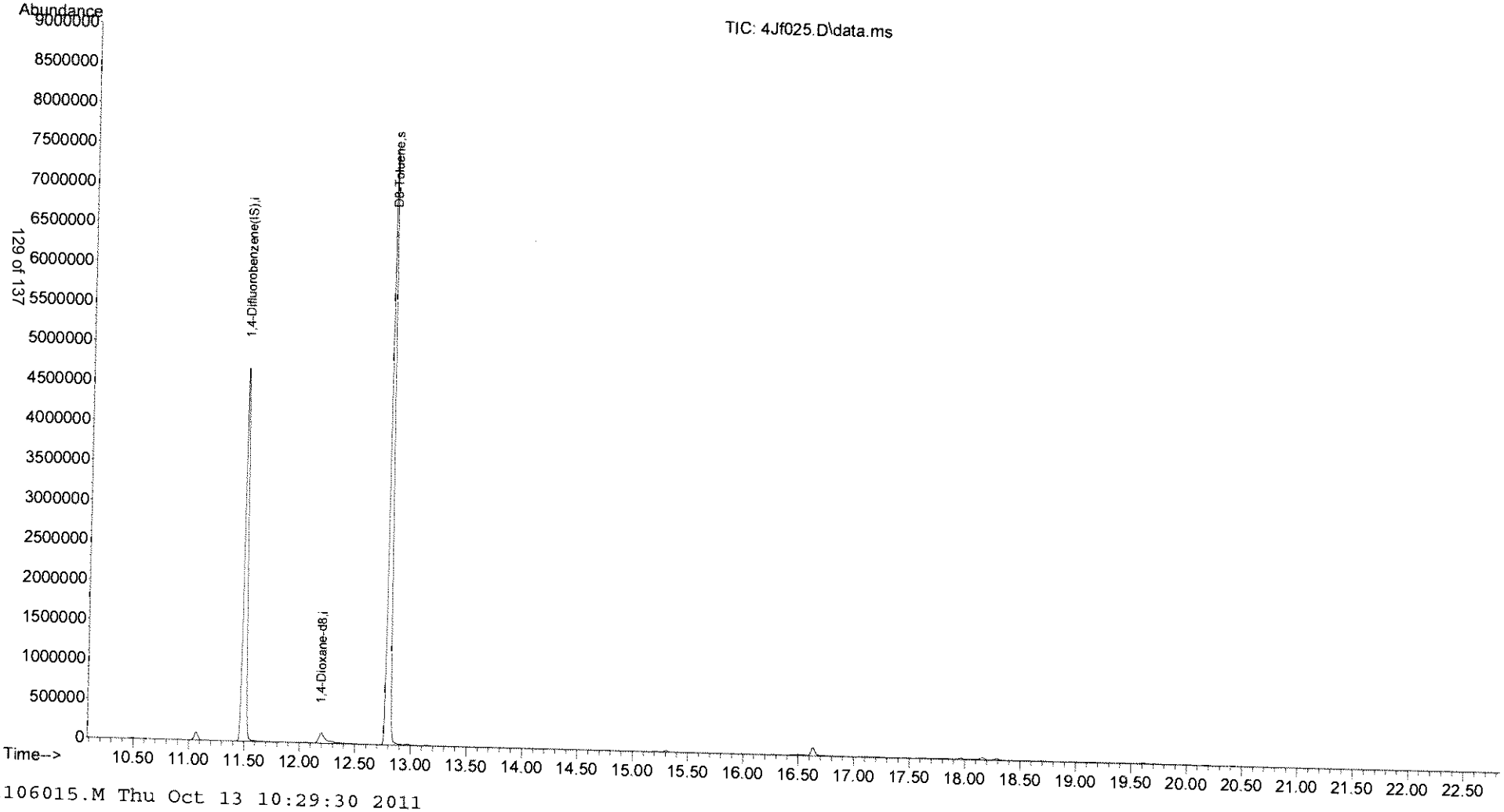
Internal Standards	R.T.	QIon	Response	Conc Units	Dev(Min)
1) 1,4-Difluorobenzene(IS)	11.498	114	7301544	5.000 ug/L	0.00
4) 1,4-Dioxane-d8	12.190	64	247979	50.000 ug/l	-0.06
System Monitoring Compounds					
2) D8-Toluene	12.797	98	8300965	5.431 ug/L	0.00
Spiked Amount 5.000	Range 79 - 127		Recovery	= 108.620%	
Target Compounds					Qvalue
3) D8-Toluene	12.797	98	8300965	5.431 ug/L	96
5) 1,4-Dioxane	0.000	88	0	N.D. d	

(#) = qualifier out of range (m) = manual integration (+) = signals summed

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\DATA\101111\
Data File : 4Jf025.D
Acq On : 12 Oct 2011 17:00
Operator : kat
Sample : a105389-08re1
Misc :
ALS Vial : 25 Sample Multiplier: 1
InstName : OVGCMS4

Quant Time: Oct 13 10:12:14 2011
Quant Method : C:\msdchem\1\METHODS\METHODS\D1106015.M
Quant Title : ENCO SOPVGCMS/10;element cal 1106015
QLast Update : Mon Jun 13 12:21:39 2011
Response via : Initial Calibration



ANALYSIS SEQUENCE

AA16750

Instrument: OVGCMS4

Calibration ID: I106015

Lab Number	Analysis	Container	Order	Position	STD ID	ISTD ID	Client
AA16750-TUN1	QC		1		A110569		
AA16750-CCV1	QC		2		A110075	A110055	
1J11017-BS1	QC		3			A110055	
1J11017-BLK1	QC		4			A110055	
1J11017-MS1	QC		5			A110055	
1J11017-MSD1	QC		6			A110055	
A105389-07	8260C SIM ID DOD	A	7			A110055	Empirical Laboratories, LLC (EM014)
A105389-01	8260C SIM ID DOD	A	8			A110055	Empirical Laboratories, LLC (EM014)
A105389-02	8260C SIM ID DOD	A	9			A110055	Empirical Laboratories, LLC (EM014)
A105389-03	8260C SIM ID DOD	A	10			A110055	Empirical Laboratories, LLC (EM014)
A105389-04	8260C SIM ID DOD	A	11			A110055	Empirical Laboratories, LLC (EM014)
A105389-05	8260C SIM ID DOD	A	12			A110055	Empirical Laboratories, LLC (EM014)
A105389-06	8260C SIM ID DOD	A	13			A110055	Empirical Laboratories, LLC (EM014)
A105389-08	8260C SIM ID DOD	A	14			A110055	Empirical Laboratories, LLC (EM014)

Samples Loaded By Date

Data Processed By Date

PREPARATION BENCH SHEET

Printed: 10/11/2011 12:25:55

Analysis
8260C SIM ID DOD

1J11017

ENCO Orlando

Prepared using: EPA 5030B_MS

Surrogate Solution
__ A1I0057 8260/iso surr toluene-d8 (iso dil) virtual

Spiking Solution
A1G0066 8260 1,4-dioxane 2nd working

Matrix: Water

Lab Number	Code	Sample ID, Source and Sample Location	Due Date	Analysis	pH adj	Res Cl(1)	Initial (mL)	Final (mL)	Spike ID	ul Spike	ul Surr1	ul Surr2	Extraction Comments
1J11017-BLK1		Blank		QC							1		
1J11017-BS1		LCS		QC					A1G0066	7.5	1		
1J11017-MS1		Matrix Spike [A105389-07]		QC					A1G0066	7.5	1		
1J11017-MSD1		Matrix Spike Dup [A105389-07]		QC					A1G0066	7.5	1		
A105389-01	D	FLC-4-MW01-092911 A[MS26	13-Oct-11	8260C SIM ID DOD							1		
A105389-02	D	FLC-4-MW02-092911 A[MS26	13-Oct-11	8260C SIM ID DOD							1		
A105389-03	D	FLC-5-MW05-092911 A[MS26	13-Oct-11	8260C SIM ID DOD							1		
A105389-04	D	FLC-5-MW04-092911 A[MS26	13-Oct-11	8260C SIM ID DOD							1		
A105389-05	D	FLC-5-MW03-092911 A[MS26	13-Oct-11	8260C SIM ID DOD							1		
A105389-06	D	FLC-RB02-092911 A[MS26	13-Oct-11	8260C SIM ID DOD							1		
A105389-07	D	FLC-MW01-092911 A[MS26	13-Oct-11	8260C SIM ID DOD							1		MS/MSD
A105389-08	D	FLC-MW02-092911 A[MS26	13-Oct-11	8260C SIM ID DOD							1		

(1) Before solvent extraction proceeds, verify that there is no residual chlorine above 0.5 mg/L. Any sample above this must be treated to remove excess chlorine before extraction, and this documented as a comment.

Inst. 4 sims

Start Date/Time _____

StopDate/Time _____

Standard ID#	Description	Manufacture Lot#

PREPARATION BENCH SHEET

Printed: 10/11/2011 12:25:55

1J11017

ENCO Orlando

Prepared using: EPA 5030B_MS

Surrogate Solution

___ A1I0057 8260/iso surr toluene-d8 (iso dil) virtual

Spiking Solution

A1G0066 8260 1,4-dioxane 2nd working

Matrix: Water

Lab Number	Code	Sample ID, Source and Sample Location	Due Date	Analysis	pH adj	Res Cl(1)	Initial (mL)	Final (mL)	Spike ID	ul Spike	ul Surr1	ul Surr2	Extraction Comments

Equipment Used

Sonicator _____ Tuned per manufacturer instructions? [ ] Yes [ ] No [ ] NA

Turbovap _____ Temperature: _____ N2 pressure (initial): _____ (final): _____

Turbovap _____ Temperature: _____ N2 pressure (initial): _____ (final): _____

Turbovap _____ Temperature: _____ N2 pressure (initial): _____ (final): _____

Balance _____ Daily calibration complete? [ ] Yes [ ] No [ ] NA

Other

Samples Prepared By Date

Samples Prepared By Date

Samples Prepared By Date

VOLATILES GC/MS LOGBOOK
Volatiles
EPA Method 624
SW-846 Method 8260

Tune Start Date/Time: 10.11.11 1433
Tune End Date/Time: 10.12.11 02.37
Preventive Maintenance: Purge Bale
Method: 8260 SIM
Workgroup: 1J11017
920 AA 16750

Surrogate ID: A1F0056/57
Internal ID: A1F0054/55
LCS Acrolein 2°: ____
LCS 8260 2°: ____
Other Standard: A1F0569/1 BFB
1°: A1G0065/1 2°: A1G0066/1

8260 Mix: ____
8260 Add: ____
8260 Ac/Ac: ____
8260 Gases: ____
Instrument #: 1, 2, 3, or 4
CUS A1I0015

Filename	Time	ENCO No.	Amount	Pos.	pH (<2)	RC	Analyst	Comments	LIMS
4JF001	1433	BFB 50ng	1µl/5mL	1	na	na	KDW	AA16750-tun1	✓
4JF002	1505	25ppb Dioxane CCS	15mL	2	na	na	KDW	AA16750-cw1	✓
4JF003	1537	1J11017-BS1	15mL	3	na	na	KDW	LCS	✓
4JF004	1609	1J11017-BLK1	15mL	4	na	na	KDW	BLK	✓
4JF005	1641	1J11017-MS1	15mL	5	✓	na	KT	MS	✓
4JF006	A16	1J11017-MSD1	15mL	6	✓	na	KT	MSD	✓
4JF007	A54	A105389-07	15mL	7	✓	na	KT	Sim	✓
4JF008	1829	A105389-01	15ml	8	✓	na	KT	SOURCE	✓
4JF009	1904	A105389-02	15ml	9	✓	na	KT		✓
4JF010	1939	A105389-03	15ml	10	✓	na	KT		✓
4JF011	2015	A105389-04	15ml	11	✓	na	KT		✓
4JF012	2051	A105389-05	15ml	12	✓	na	KT		✓
4JF013	2126	A105389-06	15ml	13	✓	na	KT		✓
4JF014	2201	A105389-08	15ml	14	✓	na	KT		✓
4JF015	1114	BFB 50ng	1µl/5ml	1	na	na	KT		✓
4JF016	1143	25ppb CCS Dioxane	15ml	2	na	na	KT	AA16750-tun2	✓
4JF017	1215	1J11017-BLK2	15ml	3	na	na	KT	AA16750-cw2	✓
4JF018	1249	A105389-07rd	15ml	4	✓	na	KT	BLK2	✓
4JF019	1323	A105389-01rd	15ml	5	✓	na	KT	Sim SOURCE	✓
4JF020	1400	A105389-02rd	15ml	6	✓	na	KT		✓

cum
ISTDs
Act
All
RLX High
RLX
RLX
RLX
RLX
RLX
RLX
RLX

VOLATILES GC/MS LOGBOOK
Volatiles
EPA Method 624
SW-846 Method 8260

2nd

Tune Start Date/Time: 10.12.11 11:14
Tune End Date/Time:
Preventive Maintenance: purge valve
Method: 8260-SIM
Workgroup: NJ11017 AA14750

Surrogate ID:
Internal ID:
LCS Acrolein 2°:
LCS 8260 2°:
Other Standard:

8260 Mix :
~~8260 Add~~:
8260 Ac/Ac:
8260 Gases:
Instrument #: 1, 2, 3, or 4

See pg 138

Filename	Time	ENCO No.	Amount	Pos. DO 10/10/11	pH (<2)	RC	Analyst	Comments	LIMS
UJF021	1437	M05389-03rcl	15mL	~~DI~~ 7	✓	na	KTT	SIM	✓
UJF022	1514	M05389-04rcl	15mL	8	✓	na	KTT		✓
UJF023	1549	M05389-05rcl	15ml	9	✓	na	KTT		✓
UJF024	1624	M05389-06rcl	15mL	10	✓	na	KTT		✓
UJF025	1700	M05389-08rcl	15mL	11	✓	na	KTT		✓

RSD still high ND

KTT 10/13/11

ANALYSIS SEQUENCE

AA16750

2

Instrument: OVGCMS4

Calibration ID: 110615

Lab Number	Analysis	Container	Order	Position	STD ID	ISTD ID	Client
AA16750-IICN1	QC		1		A110569		
AA16750-CCV1	QC		2		A110075	A110055	
IJI1017-BS1	QC		3			A110055	
IJI1017-BLK1	QC		4			A110055	
IJI1017-MS1	QC		5			A110055	
IJI1017-MSD1	QC		6			A110055	
A105389-07	8260C SIM ID DOD	A	7			A110055	Empirical Laboratories, LLC (EM014)
A105389-01	8260C SIM ID DOD	A	8			A110055	Empirical Laboratories, LLC (EM014)
A105389-02	8260C SIM ID DOD	A	9			A110055	Empirical Laboratories, LLC (EM014)
A105389-03	8260C SIM ID DOD	A	10			A110055	Empirical Laboratories, LLC (EM014)
A105389-04	8260C SIM ID DOD	A	11			A110055	Empirical Laboratories, LLC (EM014)
A105389-05	8260C SIM ID DOD	A	12			A110055	Empirical Laboratories, LLC (EM014)
A105389-06	8260C SIM ID DOD	A	13			A110055	Empirical Laboratories, LLC (EM014)
A105389-08	8260C SIM ID DOD	A	14			A110055	Empirical Laboratories, LLC (EM014)
AA16750-IICN2	QC		15		A110569		
AA16750-CCV2	QC		16		A110075	A110055	
IJI1017-BLK2	QC		17			A110055	
A105389-07RE1	8260C SIM ID DOD	A	18			A110055	Empirical Laboratories, LLC (EM014)
A105389-01RE1	8260C SIM ID DOD	A	19			A110055	Empirical Laboratories, LLC (EM014)
A105389-02RE1	8260C SIM ID DOD	A	20			A110055	Empirical Laboratories, LLC (EM014)
A105389-03RE1	8260C SIM ID DOD	A	21			A110055	Empirical Laboratories, LLC (EM014)
A105389-04RE1	8260C SIM ID DOD	A	22			A110055	Empirical Laboratories, LLC (EM014)
A105389-05RE1	8260C SIM ID DOD	A	23			A110055	Empirical Laboratories, LLC (EM014)
A105389-06RE1	8260C SIM ID DOD	A	24			A110055	Empirical Laboratories, LLC (EM014)
A105389-08RE1	8260C SIM ID DOD	A	25			A110055	Empirical Laboratories, LLC (EM014)

Samples Loaded By _____ Date _____

Data Processed By _____ Date _____

PREPARATION BENCH SHEET

Analysis
8260C SIM ID DOD

1J11017
ENCO Orlando

Printed: 10/12/2011 11:25:28

Prepared using: EPA 5030B_MS

Surrogate Solution
___ A1I0057 8260/iso surr toluene-d8 (iso dil) virtual

Spiking Solution
A1G0066 8260 1,4-dioxane 2nd working

Matrix: Water

Lab Number	Code	Sample ID, Source and Sample Location		Due Date	Analysis	pH adj	Res Cl[1]	Initial (mL)	Final (mL)	Spike ID	ul Spike	ul Surr1	ul Surr2	Extraction Comments
1J11017-BLK1		Blank			QC							1		
1J11017-BLK2		Blank			QC							1		
1J11017-BS1		LCS			QC					A1G0066	7.5	1		
1J11017-MS1		Matrix Spike [A105389-07]			QC					A1G0066	7.5	1		
1J11017-MSD1		Matrix Spike Dup [A105389-07]			QC					A1G0066	7.5	1		
A105389-01	D	FLC-4-MW01-092911	A[MS26	13-Oct-11	8260C SIM ID DOD							1		
A105389-01RE1	D	FLC-4-MW01-092911	A[MS26	13-Oct-11	8260C SIM ID DOD							1		Added 10/12/2011 by KAT
A105389-02	D	FLC-4-MW02-092911	A[MS26	13-Oct-11	8260C SIM ID DOD							1		
A105389-02RE1	D	FLC-4-MW02-092911	A[MS26	13-Oct-11	8260C SIM ID DOD							1		Added 10/12/2011 by KAT
A105389-03	D	FLC-5-MW05-092911	A[MS26	13-Oct-11	8260C SIM ID DOD							1		
A105389-03RE1	D	FLC-5-MW05-092911	A[MS26	13-Oct-11	8260C SIM ID DOD							1		Added 10/12/2011 by KAT
A105389-04	D	FLC-5-MW04-092911	A[MS26	13-Oct-11	8260C SIM ID DOD							1		
A105389-04RE1	D	FLC-5-MW04-092911	A[MS26	13-Oct-11	8260C SIM ID DOD							1		Added 10/12/2011 by KAT
A105389-05	D	FLC-5-MW03-092911	A[MS26	13-Oct-11	8260C SIM ID DOD							1		
A105389-05RE1	D	FLC-5-MW03-092911	A[MS26	13-Oct-11	8260C SIM ID DOD							1		Added 10/12/2011 by KAT
A105389-06	D	FLC-RB02-092911	A[MS26	13-Oct-11	8260C SIM ID DOD							1		
A105389-06RE1	D	FLC-RB02-092911	A[MS26	13-Oct-11	8260C SIM ID DOD							1		Added 10/12/2011 by KAT
A105389-07	D	FLC-MW01-092911	A[MS26	13-Oct-11	8260C SIM ID DOD							1		MS/MSD
A105389-07RE1	D	FLC-MW01-092911	A[MS26	13-Oct-11	8260C SIM ID DOD							1		MS/MSD
A105389-08	D	FLC-MW02-092911	A[MS26	13-Oct-11	8260C SIM ID DOD							1		
A105389-08RE1	D	FLC-MW02-092911	A[MS26	13-Oct-11	8260C SIM ID DOD							1		Added 10/12/2011 by KAT

PREPARATION BENCH SHEET

1J11017

ENCO Orlando

Printed: 10/12/2011 11:25:28

Surrogate Solution

__ A1I0057 8260/iso surr toluene-d8 (iso dil) virtual

Spiking Solution

A1G0066 8260 1,4-dioxane 2nd working

Prepared using: EPA 5030B_MS

Matrix: Water

Lab Number	Code	Sample ID, Source and Sample Location	Due Date	Analysis	pH adj	Res Cl(1)	Initial (mL)	Final (mL)	Spike ID	ul Spike	ul Surr1	ul Surr2	Extraction Comments

(1) Before solvent extraction proceeds, verify that there is no residual chlorine above 0 5 mg/L. Any sample above this must be treated to remove excess chlorine before extraction, and this documented as a comment.

Inst. 4 sims

Start Date/Time _____

StopDate/Time _____

Standard ID#	Description	Manufacture Lot#

Equipment Used

Sonicator _____ Tuned per manufacturer instructions? [ ] Yes [ ] No [ ] NA

Turbovap _____ Temperature: _____ N2 pressure (initial): _____ (final): _____

Turbovap _____ Temperature: _____ N2 pressure (initial): _____ (final): _____

Turbovap _____ Temperature: _____ N2 pressure (initial): _____ (final): _____

Balance _____ Daily calibration complete? [ ] Yes [ ] No [ ] NA

Other _____

Samples Prepared By _____ Date _____

Samples Prepared By _____ Date _____

Samples Prepared By _____ Date _____

C:\ELMNT\Print\bch_ENCO_EXT.rpt

ANALYTICAL DATA PACKAGE
SDG # 1202150

PROJECT NAME: NAVY FUEL DEPOT CTO JM 46
PROJECT LOCATION: JACKSONVILLE, FLORIDA
CONTRACT #: N62467-04-D-0055

SUBMITTAL TO:
Tobrena Sedlmeyer
Tetra Tech NUS, Inc.
Foster Plaza 7
661 Andersen Drive
Pittsburgh, PA 15220

SUBMITTAL BY:
Empirical Laboratories, LLC (EL)
621 Mainstream Drive, Suite 270
Nashville, TN 37228
Tel (615)345-1115
Fax (866)417-0548

LABORATORY CONTACT PERSON:
Project Manager: Brian Richard
Tel (615)345-1115
Fax (866)417-0548
Email: brichard@empirlabs.com

Original Report Date: March 6, 2012
Report Revision #: N/A
Revision Date: N/A
Total # of Pages: 470

THIS DOCUMENT MEETS DoD QSM 4.2 STANDARDS

The results relate to only the samples associated with the referenced SDG and the submitted data has been produced in accordance with laboratory procedures. The Laboratory's Technical Lab Director, Mr. Rick Davis, is responsible for the final data produced and reported. His signature is listed at the end of the Case Narrative within the Analytical Data Package. If applicable to this report package, details on report revisions and the information on subcontracted analysis are listed in the package Case Narrative. This report shall not be reproduced, except in full, without the written approval of Empirical Laboratories, LLC.

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5	Data for SW8270C PAH Required Data / QAQC / Calibration Forms Supporting Raw Data / Logs	25

Sample Delivery Group Case Narrative

Receipt Information
The samples were received within the preservation guidelines for the associated methods. The information associated with sample receipt and the Sample Delivery Group (SDG) are included within section 4 of this package, which also provides information on the link between the client sample ID listed on the COC and laboratory's assigned unique sample ID or WorkOrder #. The sample is tracked through the laboratory for all analysis via the assigned WorkOrder #.

All samples that were received were analyzed and none of the samples were placed on hold without analyses. There were no subcontracted analyses for this SDG.

As per the client on 02/32/2012, samples 1202150-10, -11, -15, and -16 are to be placed on hold for SW8270C and % solids. As per the client on 03/01/2012, samples 1202150-10 and -11 are to be taken off hold for SW8270C and % solids.

Changes to the Revision
This is an original submittal of the final report package.

Analytical Information
All samples were prepped (where applicable) and analyzed within the standard allowed holding times, unless noted within the exceptions listed below. The laboratory analyzed all samples within the program and method guidelines. Sample prep and dilution information is provided within the final results report and at the beginning of each form set. The following information is provided specific to individual methods:

Chromatographic Flags for Manual Integration:
The following letters are used to denote manual integrations on the laboratory's raw data in association with chromatographic integrations:

A: The peak was manually integrated as it was not integrated in the original chromatogram.
B: The peak was manually integrated due to resolution or coelution issues in the original chromatogram.
C: The peak was manually integrated to correct the baseline from the original chromatogram.
D: The peak was manually integrated to identify the correct peak as the wrong peak was identified in the original chromatogram.
E: The peak was manually integrated to include the entire peak as the original chromatogram only integrated part of the peak.

SW8270C PAH:
The following matrix spikes exceeded criteria:
2B22014-MS1/MSD1 (1202150-01) with a positive bias for Acenaphthene, Anthracene, Benzo(a)anthracene, Benzo(k)fluoranthene, Chrysene, Fluorene, and Naphthalene
2B24004-MS1/MSD1 (1202150-22) exceeded relative percent difference criteria for

Benzo(g,h,i)perylene, Dibenz(a,h)anthracene, and Indeno(1,2,3-cd)pyrene

The following continuing calibration verification:
2B06042-CCV1 with a positive bias for Benzo(a)anthracene

No additional anomalies or deviations are noted and the proper data qualifiers have been applied.

Data Qualifiers
As applicable and where required, the following general qualifiers are associated with the sample results. Additional qualifiers will be specified within the reporting sections of the data package or within the body of the Case Narrative.

Analytical Report Terms and Qualifiers

MDL: The method detection limit (MDL) is defined as the minimum concentration of a substance that can be measured and reported with 99% confidence that the analyte concentration is greater than zero. The MDL is determined from analysis of a sample containing the analyte in a given matrix. For DoD QSM 4.2 reporting purposes, this definition is also applied to the reported Detection Limit (DL).

LOD: The Limit of Detection is an estimate of the minimum amount of a substance that an analytical process can reliably detect. An LOD is analyte- and matrix-specific and may be laboratory-dependent. This definition is further clarified in the DoD QSM 4.2 revisions as the smallest amount or concentration of a substance that must be present in a sample in order to be detected at a high level of confidence (99%). At the LOD, the false negative rate (Type II error) is 1%.

LOQ: The Limit of Quantitation is the minimum level, concentration, or quantity of a target variable (e.g., target analyte) that can be reported with a specified degree of confidence. This term is further clarified within the DoD QSM 4.2 as the lowest concentration that produces a quantitative result within specified limits of precision and bias.

*****: An exceeding quality control criteria is associated with the reported result.

B: The presence of a "B" to the right of an analytical value indicates that this compound was also detected in the method blank and the data should be interpreted with caution. One should consider the possibility that the correct sample result might be less than the reported result and, perhaps, zero. **For Florida DEP reports this qualifier is "V".**

D: When a sample (or sample extract) is rerun diluted because one of the compound concentrations exceeded the highest concentration range for the standard curve, all of the values obtained in the dilution run will be flagged with a "D".

E: The concentration for any compound found which exceeds the highest concentration level on the standard curve for that compound will be flagged with an "E". Usually the sample will be rerun at a dilution to quantitate the flagged compound. **For Florida DEP reports this qualifier is "L".**

H1: The result was analyzed outside of the EPA recommended holding time.

H2: The result was extracted outside of the EPA recommended holding time.

H3: The sample for this analyte was received outside of the EPA recommended holding time.

J: The presence of a "J" to the right of an analytical result indicates that the reported result is estimated. The mass spectral data pass the identification criteria showing that the compound is present, but the calculated result is less than the EQL. One should feel confident that the result is greater than zero and less than the EQL. **For Florida DEP reports this qualifier is "I".**

M: Indicates that the sample matrix interfered with the quantitation of the analyte. In dual column analysis the result is reported from the column with the lower concentration. In inorganics, it indicates that the parameters MDL/RL has been raised.

N: The MS/MSD accuracy and/or precision are outside criteria. The predigested spike recovery is not within control limits for the associated parameter.

P: The associated numerical value is an estimated quantity. There is greater than a 40% difference between the two GC columns for the detected concentrations. The higher of the two values is reported unless matrix interference is obvious or for HPLC analysis where the primary column is reported.

Q: The RPD and/or percent recovery exceeded limits in the associated Blank Spike and/or Blank Spike Duplicate.

S: The associated internal standard failed criteria.

U: The presence of a "U" indicates that the analyte was analyzed for but was not detected or the concentration of the analyte quantitated below the DL.

X: The parameter shows a potential positive bias on a reported concentration due to an ICV or CCV exceeding the upper control limit on the high side.

Y: The parameter shows a potential negative bias on a reported concentration due to an ICV or CCV exceeding the lower control limit on the low side.

Z: The parameter shows lack of confirmation/detection, which may be due to a negative bias in the ICV or CCV which exceeds the lower control limit.

LIMS Definitions / Naming Conventions:

The following are general naming conventions that are used throughout the laboratory; however, on a method by method basis, there are additional QAQC items that are named in a consistent format.

BLK: LIMS assigns a unique identifier to the Method Blank by naming it as the letters BLK appended to the Batch ID. A Method Blank is an analyte-free matrix to which all reagents are added in the same volumes or proportions as used in sample processing. The Method Blank is used to assess for possible contamination during preparation and/or analysis steps. Method Blanks within a Batch or Analytical sequence will be appended with a numerical value beginning with 1 that will increase incrementally.

BS: LIMS assigns a unique identifier to the Blank Spike by naming it as the letters BS appended to the Batch ID. The Blank Spike or Lab Control Sample is a controlled analyte-free matrix, which is spiked with known and verified concentrations of target analytes. Spiking concentrations can be referenced in the method SOP. The BS is used to evaluate the viability of analytes taken through the entire prep (when applicable) and analytical process. Blank Spikes within a Batch or Analytical sequence will be appended with a numerical value beginning with 1 that will increase incrementally. A duplicate Blank Spike will be designated as a BSD.

MS: The LIMS assigns each Client sample with a unique identifier. The Matrix Spike is designated with a MS at the end of the sample's unique identifier. The Matrix Spike sample is used to assess the effect of the sample matrix on the precision and accuracy of the results generated using the selected method. A duplicate Matrix Spike will be designated as a MSD.

IDs: The LIMS assigns each Client sample with a unique identifier. The letter "RE" may potentially be appended to the end of the LIMS Sample ID. And "**RE"** implies that the sample was either re-prepped, re-analyzed straight, or re-analyzed at a dilution. Subsequent re-analysis for the sample will be appended with a numerical value beginning with 1 that will increase incrementally. Eg: RE1, RE2, RE3, etc.

Statement of Data Authenticity:
I certify that, based upon my inquiry of those individuals immediately responsible for obtaining the information and to the best of my knowledge, the data package is in compliance with the terms and conditions of the contract, both technically and for completeness, with the exception of the conditions detailed in this Case Narrative, as verified by my signature below. During absences, Ms. Marcia K. McGinnity or an approved technical designee is authorized to sign this Statement of Data Authenticity.

Mr. Rick D. Davis
Laboratory Technical Director / VP Operations

ORGANIC CALCULATIONS

GC/MS Volatiles

$$\text{Final Concentration} = \frac{\text{On-column(ug/L or ug/Kg) * Expected Vol/Weight (mL or g) * Dilution}}{\text{Initial Vol/Weight (mL or g) * (Percent Solids/100) (if applicable)}}$$

Note - Expected Vol/Weight value is found in "Final Vol" column of Preparation Batch Summary.

GC/MS Extractables

$$\text{Final Concentration} = \frac{\text{On-column(ng/uL) * Final Vol (ml) * Dilution *(1000uL/mL)}}{\text{Initial Vol/Weight (mL or g) * (Percent Solids/100) (if applicable)}}$$

= ng/mL or ng/g

= ug/L or ug/kg

GC or LC Extractables

$$\text{Final Concentration} = \frac{\text{On-column(ng/mL) * Final Vol (mL) * Dilution}}{\text{Initial Vol/Weight (mL or g) * (Percent Solids/100) (if applicable)}}$$

= ng/mL or ng/g

= ug/L or ug/kg

Sample Receipt Information

1202150

TETRA TECH NUS, INC.

CHAIN OF CUSTODY | NUMBER № 2368 | PAGE 1 OF 2

PROJECT NO: 112G03309	FACILITY: FLC- SITE 4	PROJECT MANAGER B. MARSHALL	PHONE NUMBER 904-636-6125	LABORATORY NAME AND CONTACT: EMPIRICAL
SAMPLERS (SIGNATURE)		FIELD OPERATIONS LEADER K. WEICHERT	PHONE NUMBER 904-636-6125	ADDRESS 621 MAINSTREAM DR. SUITE
		CARRIER/WAYBILL NUMBER		CITY, STATE NASHVILLE, TN

STANDARD TAT ☒
RUSH TAT ☐
☐ 24 hr. ☐ 48 hr. ☐ 72 hr. ☐ 7 day ☐ 14 day

DATE YEAR 2012	TIME	SAMPLE ID	LOCATION ID	TOP DEPTH (FT)	BOTTOM DEPTH (FT)	MATRIX (GW, SO, SW, SD, QC, ETC.)	COLLECTION METHOD GRAB (G) COMP (C)	No. OF CONTAINERS	PAHs - SOIL	PAHs - AQUEOUS						COMMENTS
CONTAINER TYPE PLASTIC (P) or GLASS (G)									G	G						
PRESERVATIVE USED									1	1						
2/21	0800	FLC-4-SS03-0006-022112		0	.5	SO		3	3			-01		-MS/MSD		-COOL TO 4°C
2/21	0810	FLC-4-SS04-0006-022112		0	.5	SO		1	1			-02				
2/21	0820	FLC-4-P01-0624-022112		.5	2	SO		1	1			-03				
2/21	0825	FLC-4-P01-0204-022112		2	4	SO		1	1			-04				
2/21	0830	FLC-4-RB01-022112		—	—	QC		2		2		-05				-RINSATE
2/21	0840	FLC-4-P02-0624-022112		.5	2	SO		1	1			-06				
2/21	0845	FLC-4-P02-0204-022112		2	4	SO		1	1			-07				
2/21	0900	FLC-4-P03-0624-022112		.5	2	SO		1	1			-08				
2/21	0905	FLC-4-P03-0204-022112		2	4	SO		1	1			-09				
2/21	0920	FLC-4-P04-0624-022112		.5	2	SO		1	1			-10				
2/21	0925	FLC-4-P04-0204-022112		2	4	SO		1	1			-11				
2/21	0000	FLC-4-DUP02-022112		—	—	SO		1	1			-12				-DUPLICATE
2/21	0000	FLC-4-DUP01-022112		—	—	SO		1	1			-13				-DUPLICATE

	DATE	TIME		DATE	TIME
1. RELINQUISHED BY	2-21-12	1530	1. RECEIVED BY		
2. RELINQUISHED BY			2. RECEIVED BY		
3. RELINQUISHED BY			3. RECEIVED BY	2/22/12	0820

COMMENTS

DISTRIBUTION: WHITE (ACCOMPANIES SAMPLE) YELLOW (FIELD COPY) PINK (FILE COPY)

4/02R
FORM NO. TINUS-001

10

1202150

TETRA TECH NUS, INC. 1202150

CHAIN OF CUSTODY | NUMBER № 2369 | PAGE 2 OF 2

PROJECT NO:	FACILITY:	PROJECT MANAGER	PHONE NUMBER	LABORATORY NAME AND CONTACT:
112G03309	FLC SITE 4	B. MARSHALL	904-636-6125	EMPIRICAL
SAMPLERS (SIGNATURE)		FIELD OPERATIONS LEADER	PHONE NUMBER	ADDRESS
JL. WLT		K. WETCHERT	904-636-6125	621 MAINSTREAM DR. ST.
		CARRIER/WAYBILL NUMBER		CITY, STATE
				NASHVILLE, TN

STANDARD TAT ☒
RUSH TAT ☐
☐ 24 hr. ☐ 48 hr. ☐ 72 hr. ☐ 7 day ☐ 14 day

DATE YEAR 2012	TIME	SAMPLE ID	LOCATION ID	TOP DEPTH (FT)	BOTTOM DEPTH (FT)	MATRIX (GW, SO, SW, SD, QC, ETC.)	COLLECTION METHOD GRAB (G) COMP (C)	No. OF CONTAINERS	TYPE OF ANALYSIS: PAHs - SOIL	PAHs - AQUEOUS							COMMENTS
								CONTAINER TYPE PLASTIC (P) or GLASS (G)	G	G							
								PRESERVATIVE USED	,	,							
2/21	0930	FLC-4-RB02-022112		—	—	QC		2		2	—	13	14				-RINSATE
2/21	0950	FLC-4-P05-0624-022112		.5	2	SO		3	3		—	14	15				-MS/MSD
2/21	0955	FLC-4-P05-0204-022112		2	4	SO		1	1		—	15	16				
2/21	1015	FLC-4-P06-0624-022112		.5	2	SO		1	1		—	16	17				
2/21	1020	FLC-4-P06-0204-022112		2	4	SO		1	1		—	17	18				
2/21	1025	FLC-4-P07-0624-022112		.5	2	SO		1	1		—	18	19				
2/21	1030	FLC-4-P07-0204-022112		2	4	SO		1	1		—	19	20				
2/21	1035	FLC-4-P08-0624-022112		.5	2	SO		1	1		—	20	21				
2/21	1040	FLC-4-P08-0204-022112		2	4	SO		1	1		—	21	22				
2/21	1050	FLC-4-P09-0006-022112		0	.5	SO		1	1		—	22	23				
2/21	1055	FLC-4-P09-0624-022112		.5	2	SO		1	1		—	23	24				
2/21	1100	FLC-4-P09-0204-022112		2	4	SO		1	1		—	24	25				
2/21	6000	FLC-4-DUP03-022112		—	—	SO		1	1		—	25	26				-DUPLICATE

	DATE	TIME		DATE	TIME
1. RELINQUISHED BY JL. WLT	2-21-12	1530	1. RECEIVED BY 2/22/12		
2. RELINQUISHED BY			2. RECEIVED BY		
3. RELINQUISHED BY			3. RECEIVED BY	2/22/12	0820

COMMENTS

DISTRIBUTION: WHITE (ACCOMPANIES SAMPLE) YELLOW (FIELD COPY) PINK (FILE COPY)

4/02R
FORM NO. TtNUS-001

11

1202150

Cooler Received/Opened On_ 02/22/12 @ 0820

1. Tracking # 1246 (last 4 digits, FedEx) WO# 1202150

Courier: ___FED-EX

2. Temperature of rep. sample or temp blank when opened: 1.1 *Degrees Celsius + correction factor 0.0* = 1.1

3. If Item #2 temperature is 0°C or less, was the representative sample or temp blank frozen? YES NO...NA

4. Were custody seals on outside of cooler? YES...NO...NA

If yes, how many and where: 2 FRONT & BACK

5. Were the seals intact, signed, and dated correctly? YES...NO...NA

6. Were custody papers inside cooler? YES...NO...NA

I certify that I opened the cooler and answered questions 1-6 (intial) JD

7. Were custody seals on containers: YES NO and Intact YES...NO...NA

Were these signed and dated correctly? YES...NO...NA

8. Packing mat'l used? Bubblewrap Plastic bag Peanuts Vermiculite Foam Insert Paper Other None

9. Cooling process: Ice Ice-pack Ice (direct contact) Dry ice Other None

10. Did all containers arrive in good condition (unbroken)? YES...NO...NA

11. Were all container labels complete (#, date, signed, pres., etc)? YES...NO...NA

12. Did all container labels and tags agree with custody papers? YES...NO...NA

13a. Were VOA vials received? YES...NO...NA

b. Was there any observable headspace present in any VOA vial? YES...NO...NA

14. Was there a Trip Blank in this cooler? YES...NO...NA If multiple coolers, sequence #

I certify that I unloaded the cooler and answered questions 7-14 (intial) [illegible]

15a. On pres'd bottles, did pH test strips suggest preservation reached the correct pH level? YES... NO...NA

b. Did the bottle labels indicate that the correct preservatives were used YES...NO...NA

16. Was residual chlorine present? YES...NO...NA

I certify that I checked for chlorine and pH as per SOP and answered questions 15-16 (intial) [illegible]

17. Were custody papers properly filled out (ink, signed, etc)? YES...NO...NA

18. Did you sign the custody papers in the appropriate place? YES...NO...NA

19. Were correct containers used for the analysis requested? YES...NO...NA

20. Was sufficient amount of sample sent in each container? YES...NO...NA

I certify that I entered this project into LIMS and answered questions 17-20 (intial) [illegible]

I certify that I attached a label with the unique LIMS number to each container (intial) [illegible]

21. Were there Non-Conformance issues at login? YES...NO Was a NCR generated? YES...NO...#

Additional Details:

Brian Richard

From: Marshall, Ben [Ben.Marshall@tetratech.com]
Sent: Thursday, February 23, 2012 12:49 PM
To: brichard@empirlabs.com
Subject: RE: Emailing: 1202150_COC_01.pdf

Please hold the P4 and P5 samples until the P3 and P6 samples are run. Once I see the prelims for P3 and P6 then I'll know if we need to run the P4/P5. Can the P3/P6 be run before the hold time is up, or do we need to extract?

Ben

-----Original Message-----
From: Brian Richard [mailto:brichard@empirlabs.com]
Sent: Thursday, February 23, 2012 1:40 PM
To: Marshall, Ben
Subject: Emailing: 1202150_COC_01.pdf

Here you go Ben...will you be wanting the samples to be held completely, or extracted and held?
Thanks,
Brian

The message is ready to be sent with the following file or link attachments:

1202150_COC_01.pdf

Note: To protect against computer viruses, e-mail programs may prevent sending or receiving certain types of file attachments. Check your e-mail security settings to determine how attachments are handled.

Brian Richard

From: Marshall, Ben [Ben.Marshall@tetratech.com]
Sent: Thursday, March 01, 2012 1:27 PM
To: brichard@empirlabs.com
Subject: RE: CTO JM46 - Navy Fuel Depot (FLC) PAH soil samples

Please hold the MS/MSD on the P-05 sample.

Thanks,
Ben

-----Original Message-----
From: Brian Richard [mailto:brichard@empirlabs.com]
Sent: Thursday, March 01, 2012 2:21 PM
To: Marshall, Ben
Subject: RE: CTO JM46 - Navy Fuel Depot (FLC) PAH soil samples

Ok...well, there was an MS/MSD requested on sample -15, but it was a hold sample(P-05)...do we run it too?

This was due out 3/7, but it will likely get pushed back a little bit with the add-on samples...
Thanks,
Brian

Brian Richard

Project Manager

Empirical Laboratories, LLC

Main: 615.345.1115 ext. 249 I Fax: 866.417.0548

This message and any attachments are intended only for the individual(s) to whom it is addressed. This email is confidential and may be privileged information. If you are neither the intended recipient nor the agent responsible for delivering the message to the intended recipient, you are hereby notified that any dissemination of this communication, disclosure, copying, distribution and use are prohibited and may be unlawful. If you feel you have received this communication in error please notify us immediately by returning this email to the sender and deleting it out of your email.

-----Original Message-----
From: Marshall, Ben [mailto:Ben.Marshall@tetratech.com]
Sent: Thursday, March 01, 2012 1:09 PM
To: brichard@empirlabs.com
Subject: RE: CTO JM46 - Navy Fuel Depot (FLC) PAH soil samples

Thanks Brian,

Based on the Prelims, please run samples for P-04 (sample IDs 1202150-10, -11) and any QC (MS/MSD, RB) samples not yet run.

Can you give me an ETA for the FINAL Report?

Ben

-----Original Message-----
From: Brian Richard [mailto:brichard@empirlabs.com]
Sent: Wednesday, February 29, 2012 4:05 PM
To: Marshall, Ben
Subject: RE: Emailing: 1202150_COC_01.pdf

Here you go Ben...just let me know if we need to run any of the ones that were put on hold...
Thanks,
Brian

Brian Richard

Project Manager

Empirical Laboratories, LLC

Main: 615.345.1115 ext. 249 I Fax: 866.417.0548

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-----Original Message-----
From: Marshall, Ben [mailto:Ben.Marshall@tetratech.com]
Sent: Wednesday, February 29, 2012 1:49 PM
To: brichard@empirlabs.com
Subject: RE: Emailing: 1202150_COC_01.pdf

Hey Brian,
Do you have any Prelim Data for the PAH soil samples?

Thanks,
Ben

-----Original Message-----
From: Brian Richard [mailto:brichard@empirlabs.com]
Sent: Thursday, February 23, 2012 1:59 PM
To: Marshall, Ben

Subject: RE: Emailing: 1202150_COC_01.pdf

We should've been able to get them run beforehand, but I just called my extractions group, and they've already extracted them. They're on the ball back there...

Ok, so our samples 1202150-10, -11, -15 and -16 will be put on hold...that looks to be the only "P04" and "P05" samples...that correct?
Thanks,
Brian

Brian Richard

Project Manager

Empirical Laboratories, LLC

Main: 615.345.1115 ext. 249 I Fax: 866.417.0548

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-----Original Message-----
From: Marshall, Ben [mailto:Ben.Marshall@tetratech.com]
Sent: Thursday, February 23, 2012 12:49 PM
To: brichard@empirlabs.com
Subject: RE: Emailing: 1202150_COC_01.pdf

Please hold the P4 and P5 samples until the P3 and P6 samples are run. Once I see the prelims for P3 and P6 then I'll know if we need to run the P4/P5.
Can the P3/P6 be run before the hold time is up, or do we need to extract?

Ben

-----Original Message-----
From: Brian Richard [mailto:brichard@empirlabs.com]
Sent: Thursday, February 23, 2012 1:40 PM
To: Marshall, Ben
Subject: Emailing: 1202150_COC_01.pdf

Here you go Ben...will you be wanting the samples to be held completely, or extracted and held?
Thanks,
Brian

The message is ready to be sent with the following file or link attachments:

1202150_COC_01.pdf

Note: To protect against computer viruses, e-mail programs may prevent sending or receiving certain types of file attachments. Check your e-mail security settings to determine how attachments are handled.

WORK ORDER

Printed: 3/6/2012 9:16:15AM

1202150

Empirical Laboratories, LLC

Client: Tetra Tech NUS, Inc. (T010)
Project: Navy Fuel Depot CTO JM46

Project Manager: Brian Richard
Project Number: TET_CTOJM46

Report To:
Tetra Tech NUS, Inc. (T010)
Tobrena Sedlmyer
Foster Plaza 7, 661 Anderson Drive
Pittsburgh, PA 15220
Phone: (412) 921-8182
Fax: (412) 921-4040

Invoice To:
Tetra Tech NUS, Inc. (T010)
Accounts Payable
661 Andersen Drive
Pittsburgh, PA 15220-2745
Phone :(412) 921-8182
Fax: (412) 921-4040

Due to Client: 03/07/2012 16:00 *This is the projected due date to the client, at the time of receipt, and is for report delivery via upload, and/or email, and/or shipment to meet TAT as setup by project*

Received By: Benjamin C. Wright
Date Received: 02/22/2012 08:20
Logged In By: Benjamin C. Wright
Date Logged In: 02/22/2012 11:23

Samples Received at: **1.1°C**

Custody Seals	Yes	Received On Ice	Yes
Containers Intact	Yes		
COC/Labels Agree	Yes		
Preservation Confir	No		

Method	Test Code	Due	TAT	Expires	Comments
1202150-01 FLC-4-SS03-0006-022112 [Solid] Sampled 02/21/2012 08:00 Central					**MS/MSD**
SW8270C	ZZ_SMS_PAH_8270C_3546_LOW	03/02/2012 14:00	10	03/06/2012 08:00	MS/MSD.Only if low PRO concentrations
SM2540B	WC_PERCENT_SOLIDS_2540B	03/02/2012 14:00	10	02/28/2012 08:00	MS/MSD.
1202150-02 FLC-4-SS04-0006-022112 [Solid] Sampled 02/21/2012 08:10 Central					
SM2540B	WC_PERCENT_SOLIDS_2540B	03/02/2012 14:00	10	02/28/2012 08:10	
SW8270C	ZZ_SMS_PAH_8270C_3546_LOW	03/02/2012 14:00	10	03/06/2012 08:10	Only if low PRO concentrations

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1202150

WORK ORDER

Printed: 3/6/2012 9:16:15AM

1202150

Empirical Laboratories, LLC

Client: Tetra Tech NUS, Inc. (T010)
Project: Navy Fuel Depot CTO JM46
Project Manager: Brian Richard
Project Number: TET_CTOJM46

Method	Test Code	Due	TAT	Expires	Comments
1202150-03 FLC-4-PO1-0624-022112 [Solid] Sampled 02/21/2012 08:20 Central					
SM2540B	WC_PERCENT_SOLIDS_2540B	03/02/2012 14:00	10	02/28/2012 08:20	
SW8270C	ZZ_SMS_PAH_8270C_3546_LOW	03/02/2012 14:00	10	03/06/2012 08:20	Only if low PRO concentrations
1202150-04 FLC-4-PO1-0204-022112 [Solid] Sampled 02/21/2012 08:25 Central					
SM2540B	WC_PERCENT_SOLIDS_2540B	03/02/2012 14:00	10	02/28/2012 08:25	
SW8270C	ZZ_SMS_PAH_8270C_3546_LOW	03/02/2012 14:00	10	03/06/2012 08:25	Only if low PRO concentrations
1202150-05 FLC-4-RB01-022112 [Water] Sampled 02/21/2012 08:30 Central					
SW8270C	ZZ_SMS_PAH_8270C_3510_LOW	03/02/2012 14:00	10	02/28/2012 08:30	
1202150-06 FLC-4-PO2-0624-022112 [Solid] Sampled 02/21/2012 08:40 Central					
SW8270C	ZZ_SMS_PAH_8270C_3546_LOW	03/02/2012 14:00	10	03/06/2012 08:40	Only if low PRO concentrations
SM2540B	WC_PERCENT_SOLIDS_2540B	03/02/2012 14:00	10	02/28/2012 08:40	
1202150-07 FLC-4-PO2-0204-022112 [Solid] Sampled 02/21/2012 08:45 Central					
SW8270C	ZZ_SMS_PAH_8270C_3546_LOW	03/02/2012 14:00	10	03/06/2012 08:45	Only if low PRO concentrations
SM2540B	WC_PERCENT_SOLIDS_2540B	03/02/2012 14:00	10	02/28/2012 08:45	
1202150-08 FLC-4-PO3-0624-022112 [Solid] Sampled 02/21/2012 09:00 Central					
SW8270C	ZZ_SMS_PAH_8270C_3546_LOW	03/02/2012 14:00	10	03/06/2012 09:00	Only if low PRO concentrations
SM2540B	WC_PERCENT_SOLIDS_2540B	03/02/2012 14:00	10	02/28/2012 09:00	

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WORK ORDER

Printed: 3/6/2012 9:16:15AM

1202150

Empirical Laboratories, LLC

Client: Tetra Tech NUS, Inc. (T010)
Project: Navy Fuel Depot CTO JM46
Project Manager: Brian Richard
Project Number: TET_CTOJM46

Method	Test Code	Due	TAT	Expires	Comments
1202150-09 FLC-4-PO3-0204-022112 [Solid] Sampled 02/21/2012 09:05 Central					
SW8270C	ZZ_SMS_PAH_8270C_3546_LOW	03/02/2012 14:00	10	03/06/2012 09:05	Only if low PRO concentrations
SM2540B	WC_PERCENT_SOLIDS_2540B	03/02/2012 14:00	10	02/28/2012 09:05	
1202150-10 FLC-4-PO4-0624-022112 [Solid] Sampled 02/21/2012 09:20 Central					
SW8270C	ZZ_SMS_PAH_8270C_3546_LOW	03/02/2012 14:00	10	03/06/2012 09:20	Only if low PRO concentrations
SM2540B	WC_PERCENT_SOLIDS_2540B	03/02/2012 14:00	10	02/28/2012 09:20	
1202150-11 FLC-4-PO4-0204-022112 [Solid] Sampled 02/21/2012 09:25 Central					
SM2540B	WC_PERCENT_SOLIDS_2540B	03/02/2012 14:00	10	02/28/2012 09:25	
SW8270C	ZZ_SMS_PAH_8270C_3546_LOW	03/02/2012 14:00	10	03/06/2012 09:25	Only if low PRO concentrations
1202150-12 FLC-4-DUP02-022112 [Solid] Sampled 02/21/2012 00:00 Central					
SW8270C	ZZ_SMS_PAH_8270C_3546_LOW	03/02/2012 14:00	10	03/06/2012 00:00	Only if low PRO concentrations
SM2540B	WC_PERCENT_SOLIDS_2540B	03/02/2012 14:00	10	02/28/2012 00:00	
1202150-13 FLC-4-DUP01-022112 [Solid] Sampled 02/21/2012 00:00 Central					
SM2540B	WC_PERCENT_SOLIDS_2540B	03/02/2012 14:00	10	02/28/2012 00:00	
SW8270C	ZZ_SMS_PAH_8270C_3546_LOW	03/02/2012 14:00	10	03/06/2012 00:00	Only if low PRO concentrations
1202150-14 FLC-4-RB02-022112 [Water] Sampled 02/21/2012 09:30 Central					
SW8270C	ZZ_SMS_PAH_8270C_3510_LOW	03/02/2012 14:00	10	02/28/2012 09:30	

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1202150

1202150

Empirical Laboratories, LLC

Client: Tetra Tech NUS, Inc. (T010)
Project: Navy Fuel Depot CTO JM46
Project Manager: Brian Richard
Project Number: TET_CTOJM46

Method	Test Code	Due	TAT	Expires	Comments
1202150-15 FLC-4-PO5-0624-022112 [Solid] Sampled 02/21/2012 09:50 Central					**MS/MSD**
SW8270C	ZZ_SMS_PAH_8270C_3546_LOW	03/02/2012 14:00	10	03/06/2012 09:50	MS/MSD.Only if low PRO concentrations
SM2540B	WC_PERCENT_SOLIDS_2540B	03/02/2012 14:00	10	02/28/2012 09:50	MS/MSD.
1202150-16 FLC-4-PO5-0204-022112 [Solid] Sampled 02/21/2012 09:55 Central					
SM2540B	WC_PERCENT_SOLIDS_2540B	03/02/2012 14:00	10	02/28/2012 09:55	
SW8270C	ZZ_SMS_PAH_8270C_3546_LOW	03/02/2012 14:00	10	03/06/2012 09:55	Only if low PRO concentrations
1202150-17 FLC-4-PO6-0624-022112 [Solid] Sampled 02/21/2012 10:15 Central					
SM2540B	WC_PERCENT_SOLIDS_2540B	03/02/2012 14:00	10	02/28/2012 10:15	
SW8270C	ZZ_SMS_PAH_8270C_3546_LOW	03/02/2012 14:00	10	03/06/2012 10:15	Only if low PRO concentrations
1202150-18 FLC-4-PO6-0204-022112 [Solid] Sampled 02/21/2012 10:20 Central					
SM2540B	WC_PERCENT_SOLIDS_2540B	03/02/2012 14:00	10	02/28/2012 10:20	
SW8270C	ZZ_SMS_PAH_8270C_3546_LOW	03/02/2012 14:00	10	03/06/2012 10:20	Only if low PRO concentrations
1202150-19 FLC-4-PO7-0624-022112 [Solid] Sampled 02/21/2012 10:25 Central					
SW8270C	ZZ_SMS_PAH_8270C_3546_LOW	03/02/2012 14:00	10	03/06/2012 10:25	Only if low PRO concentrations
SM2540B	WC_PERCENT_SOLIDS_2540B	03/02/2012 14:00	10	02/28/2012 10:25	
1202150-20 FLC-4-PO7-0204-022112 [Solid] Sampled 02/21/2012 10:30 Central					
SW8270C	ZZ_SMS_PAH_8270C_3546_LOW	03/02/2012 14:00	10	03/06/2012 10:30	Only if low PRO concentrations
SM2540B	WC_PERCENT_SOLIDS_2540B	03/02/2012 14:00	10	02/28/2012 10:30	

WORK ORDER

Printed: 3/6/2012 9:16:15AM

1202150

Empirical Laboratories, LLC

Client: Tetra Tech NUS, Inc. (T010)
Project: Navy Fuel Depot CTO JM46
Project Manager: Brian Richard
Project Number: TET_CTOJM46

Method	Test Code	Due	TAT	Expires	Comments
1202150-21 FLC-4-PO8-0624-022112 [Solid] Sampled 02/21/2012 10:35 Central					
SM2540B	WC_PERCENT_SOLIDS_2540B	03/02/2012 14:00	10	02/28/2012 10:35	
SW8270C	ZZ_SMS_PAH_8270C_3546_LOW	03/02/2012 14:00	10	03/06/2012 10:35	Only if low PRO concentrations
1202150-22 FLC-4-PO8-0204-022112 [Solid] Sampled 02/21/2012 10:40 Central					
SM2540B	WC_PERCENT_SOLIDS_2540B	03/02/2012 14:00	10	02/28/2012 10:40	
SW8270C	ZZ_SMS_PAH_8270C_3546_LOW	03/02/2012 14:00	10	03/06/2012 10:40	Only if low PRO concentrations
1202150-23 FLC-4-PO9-0006-022112 [Solid] Sampled 02/21/2012 10:50 Central					
SM2540B	WC_PERCENT_SOLIDS_2540B	03/02/2012 14:00	10	02/28/2012 10:50	
SW8270C	ZZ_SMS_PAH_8270C_3546_LOW	03/02/2012 14:00	10	03/06/2012 10:50	Only if low PRO concentrations
1202150-24 FLC-4-PO9-0624-022112 [Solid] Sampled 02/21/2012 10:55 Central					
SM2540B	WC_PERCENT_SOLIDS_2540B	03/02/2012 14:00	10	02/28/2012 10:55	
SW8270C	ZZ_SMS_PAH_8270C_3546_LOW	03/02/2012 14:00	10	03/06/2012 10:55	Only if low PRO concentrations
1202150-25 FLC-4-PO9-0204-022112 [Solid] Sampled 02/21/2012 11:00 Central					
SM2540B	WC_PERCENT_SOLIDS_2540B	03/02/2012 14:00	10	02/28/2012 11:00	
SW8270C	ZZ_SMS_PAH_8270C_3546_LOW	03/02/2012 14:00	10	03/06/2012 11:00	Only if low PRO concentrations
1202150-26 FLC-4-DUP03-022112 [Solid] Sampled 02/21/2012 00:00 Central					
SW8270C	ZZ_SMS_PAH_8270C_3546_LOW	03/02/2012 14:00	10	03/06/2012 00:00	Only if low PRO concentrations
SM2540B	WC_PERCENT_SOLIDS_2540B	03/02/2012 14:00	10	02/28/2012 00:00	

Reviewed By _____ Date _____

WORK ORDER

Printed: 3/6/2012 9:16:15AM

1202150

Empirical Laboratories, LLC

Client:	**Tetra Tech NUS, Inc. (T010)**	**Project Manager:**	**Brian Richard**
Project:	**Navy Fuel Depot CTO JM46**	**Project Number:**	**TET_CTOJM46**

Reviewed By

Date

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1202150

Sample Delivery Group Assignment Form

CLIENT: Tetra Tech NUS, Inc. (T010)
PROJECT NAME: Navy Fuel Depot CTO JM46
SDG #: 1202150
MATRIX: Solid

QC LEVEL: Level IV
Report Due: 3/7/2012
Client Sample Count: 26

Sample Type	Sampled	Received	Lab ID	Client ID	SM2540B	SW8270C
Client Sample	2/21/2012	2/22/2012	1202150-01	FLC-4-SS03-0006-022112	MS/MSD	MS/MSD
Client Sample	2/21/2012	2/22/2012	1202150-02	FLC-4-SS04-0006-022112	X	X
Client Sample	2/21/2012	2/22/2012	1202150-03	FLC-4-PO1-0624-022112	X	X
Client Sample	2/21/2012	2/22/2012	1202150-04	FLC-4-PO1-0204-022112	X	X
Client Sample	2/21/2012	2/22/2012	1202150-05	FLC-4-RB01-022112		X
Client Sample	2/21/2012	2/22/2012	1202150-06	FLC-4-PO2-0624-022112	X	X
Client Sample	2/21/2012	2/22/2012	1202150-07	FLC-4-PO2-0204-022112	X	X
Client Sample	2/21/2012	2/22/2012	1202150-08	FLC-4-PO3-0624-022112	X	X
Client Sample	2/21/2012	2/22/2012	1202150-09	FLC-4-PO3-0204-022112	X	X
Client Sample	2/21/2012	2/22/2012	1202150-10	FLC-4-PO4-0624-022112	X	X
Client Sample	2/21/2012	2/22/2012	1202150-11	FLC-4-PO4-0204-022112	X	X
Client Sample	2/21/2012	2/22/2012	1202150-12	FLC-4-DUP02-022112	X	X
Client Sample	2/21/2012	2/22/2012	1202150-13	FLC-4-DUP01-022112	X	X
Client Sample	2/21/2012	2/22/2012	1202150-14	FLC-4-RB02-022112		X
Client Sample	2/21/2012	2/22/2012	1202150-15	FLC-4-PO5-0624-022112	MS/MSD	MS/MSD
Client Sample	2/21/2012	2/22/2012	1202150-16	FLC-4-PO5-0204-022112	Hold	Hold
Client Sample	2/21/2012	2/22/2012	1202150-17	FLC-4-PO6-0624-022112	X	X
Client Sample	2/21/2012	2/22/2012	1202150-18	FLC-4-PO6-0204-022112	X	X
Client Sample	2/21/2012	2/22/2012	1202150-19	FLC-4-PO7-0624-022112	X	X
Client Sample	2/21/2012	2/22/2012	1202150-20	FLC-4-PO7-0204-022112	X	X
Client Sample	2/21/2012	2/22/2012	1202150-21	FLC-4-PO8-0624-022112	X	X
Client Sample	2/21/2012	2/22/2012	1202150-22	FLC-4-PO8-0204-022112	X	X
Client Sample	2/21/2012	2/22/2012	1202150-23	FLC-4-PO9-0006-022112	X	X
Client Sample	2/21/2012	2/22/2012	1202150-24	FLC-4-PO9-0624-022112	X	X
Client Sample	2/21/2012	2/22/2012	1202150-25	FLC-4-PO9-0204-022112	X	X
Client Sample	2/21/2012	2/22/2012	1202150-26	FLC-4-DUP03-022112	X	X

Data for SW8270C (PAH) Forms

ANALYSIS DATA SHEET

FLC-4-SS03-0006-022112

Laboratory:	Empirical Laboratories, LLC		SDG:	1202150	
Client:	Tetra Tech NUS, Inc. (T010)		Project:	Navy Fuel Depot CTO JM46	
Matrix:	Solid	Laboratory ID:	1202150-01	File ID:	0215001D.D
Sampled:	02/21/12 08:00	Prepared:	02/22/12 13:54	Analyzed:	02/24/12 20:01
Solids:	94.79	Preparation:	EXT_3546	Dilution:	10

Batch: 2B22014 Sequence: 2B05912 Calibration: 2052003 Instrument: MS-BNA4

CAS NO.	COMPOUND	CONC. (ug/Kg dry)	DL	LOD	LOQ	Q
83-32-9	Acenaphthene		17.5	34.9	69.9	N, U
208-96-8	Acenaphthylene	45.2	17.5	34.9	69.9	, D I
120-12-7	Anthracene		17.5	34.9	69.9	N, U
56-55-3	Benzo(a)anthracene	76.4	17.5	34.9	69.9	N, D
50-32-8	Benzo(a)pyrene	122	17.5	34.9	69.9	D
205-99-2	Benzo(b)fluoranthene	139	17.5	34.9	69.9	D
191-24-2	Benzo(g,h,i)perylene	90.1	17.5	34.9	69.9	D
207-08-9	Benzo(k)fluoranthene	130	17.5	34.9	69.9	N, D
218-01-9	Chrysene	159	17.5	34.9	69.9	N, D
53-70-3	Dibenz(a,h)anthracene	34.8	17.5	34.9	69.9	, D I
206-44-0	Fluoranthene	114	17.5	34.9	69.9	D
86-73-7	Fluorene		17.5	34.9	69.9	N, U
193-39-5	Indeno(1,2,3-cd)pyrene	68.8	17.5	34.9	69.9	, D I
90-12-0	1-Methylnaphthalene		17.5	34.9	69.9	U
91-57-6	2-Methylnaphthalene		17.5	34.9	69.9	U
91-20-3	Naphthalene		17.5	34.9	69.9	N, U
85-01-8	Phenanthrene	35.6	17.5	34.9	69.9	, D I
129-00-0	Pyrene	193	17.5	34.9	69.9	D

SYSTEM MONITORING COMPOUND	ADDED (ug/Kg dry)	CONC (ug/Kg dry)	% REC	QC LIMITS	Q
2-Fluorobiphenyl	3493	2874	82.3	14 - 129	
Terphenyl-d14	3493	3700	106	14 - 129	

ANALYSIS DATA SHEET

FLC-4-SS04-0006-022112

Laboratory:	Empirical Laboratories, LLC			SDG:	1202150
Client:	Tetra Tech NUS, Inc. (T010)			Project:	Navy Fuel Depot CTO JM46
Matrix:	Solid	Laboratory ID:	1202150-02	File ID:	0215002D.D
Sampled:	02/21/12 08:10	Prepared:	02/22/12 13:54	Analyzed:	02/24/12 21:25
Solids:	76.11	Preparation:	EXT_3546	Dilution:	10

Batch: 2B22014 Sequence: 2B05912 Calibration: 2052003 Instrument: MS-BNA4

CAS NO.	COMPOUND	CONC. (ug/Kg dry)	DL	LOD	LOQ	Q
83-32-9	Acenaphthene		21.8	43.5	87.1	U
208-96-8	Acenaphthylene	78.1	21.8	43.5	87.1	, D I
120-12-7	Anthracene	33.3	21.8	43.5	87.1	, D I
56-55-3	Benzo(a)anthracene	138	21.8	43.5	87.1	D
50-32-8	Benzo(a)pyrene	195	21.8	43.5	87.1	D
205-99-2	Benzo(b)fluoranthene	189	21.8	43.5	87.1	D
191-24-2	Benzo(g,h,i)perylene	145	21.8	43.5	87.1	D
207-08-9	Benzo(k)fluoranthene	193	21.8	43.5	87.1	D
218-01-9	Chrysene	298	21.8	43.5	87.1	D
53-70-3	Dibenz(a,h)anthracene	48.0	21.8	43.5	87.1	, D I
206-44-0	Fluoranthene	226	21.8	43.5	87.1	D
86-73-7	Fluorene		21.8	43.5	87.1	U
193-39-5	Indeno(1,2,3-cd)pyrene	113	21.8	43.5	87.1	D
90-12-0	1-Methylnaphthalene		21.8	43.5	87.1	U
91-57-6	2-Methylnaphthalene	31.9	21.8	43.5	87.1	D, I
91-20-3	Naphthalene	39.4	21.8	43.5	87.1	, D I
85-01-8	Phenanthrene	84.1	21.8	43.5	87.1	, D I
129-00-0	Pyrene	368	21.8	43.5	87.1	D

SYSTEM MONITORING COMPOUND	ADDED (ug/Kg dry)	CONC (ug/Kg dry)	% REC	QC LIMITS	Q
2-Fluorobiphenyl	4351	3903	89.7	14 - 129	
Terphenyl-d14	4351	5236	120	14 - 129	

ANALYSIS DATA SHEET

FLC-4-PO1-0624-022112

Laboratory:	Empirical Laboratories, LLC			SDG:	1202150
Client:	Tetra Tech NUS, Inc. (T010)			Project:	Navy Fuel Depot CTO JM46
Matrix:	Solid	Laboratory ID:	1202150-03	File ID:	0215003.D
Sampled:	02/21/12 08:20	Prepared:	02/22/12 13:54	Analyzed:	02/24/12 21:52
Solids:	77.63	Preparation:	EXT_3546	Dilution:	1

Batch: 2B22014 Sequence: 2B05912 Calibration: 2052003 Instrument: MS-BNA4

CAS NO.	COMPOUND	CONC. (ug/Kg dry)	DL	LOD	LOQ	Q
83-32-9	Acenaphthene		2.10	4.18	8.37	U
208-96-8	Acenaphthylene		2.10	4.18	8.37	U
120-12-7	Anthracene		2.10	4.18	8.37	U
56-55-3	Benzo(a)anthracene		2.10	4.18	8.37	U
50-32-8	Benzo(a)pyrene		2.10	4.18	8.37	U
205-99-2	Benzo(b)fluoranthene		2.10	4.18	8.37	U
191-24-2	Benzo(g,h,i)perylene		2.10	4.18	8.37	U
207-08-9	Benzo(k)fluoranthene		2.10	4.18	8.37	U
218-01-9	Chrysene		2.10	4.18	8.37	U
53-70-3	Dibenz(a,h)anthracene		2.10	4.18	8.37	U
206-44-0	Fluoranthene		2.10	4.18	8.37	U
86-73-7	Fluorene		2.10	4.18	8.37	U
193-39-5	Indeno(1,2,3-cd)pyrene		2.10	4.18	8.37	U
90-12-0	1-Methylnaphthalene		2.10	4.18	8.37	U
91-57-6	2-Methylnaphthalene		2.10	4.18	8.37	U
91-20-3	Naphthalene		2.10	4.18	8.37	U
85-01-8	Phenanthrene		2.10	4.18	8.37	U
129-00-0	Pyrene		2.10	4.18	8.37	U

SYSTEM MONITORING COMPOUND	ADDED (ug/Kg dry)	CONC (ug/Kg dry)	% REC	QC LIMITS	Q
2-Fluorobiphenyl	4182	2869	68.6	14 - 129	
Terphenyl-d14	4182	3989	95.4	14 - 129	

ANALYSIS DATA SHEET

FLC-4-PO1-0204-022112

Laboratory:	Empirical Laboratories, LLC			SDG:	1202150
Client:	Tetra Tech NUS, Inc. (T010)			Project:	Navy Fuel Depot CTO JM46
Matrix:	Solid	Laboratory ID:	1202150-04	File ID:	0215004D.D
Sampled:	02/21/12 08:25	Prepared:	02/22/12 13:54	Analyzed:	02/24/12 23:15
Solids:	78.03	Preparation:	EXT_3546	Dilution:	10

Batch: 2B22014 Sequence: 2B06042 Calibration: 2052003 Instrument: MS-BNA4

CAS NO.	COMPOUND	CONC. (ug/Kg dry)	DL	LOD	LOQ	Q
83-32-9	Acenaphthene		20.2	40.3	80.6	U
208-96-8	Acenaphthylene		20.2	40.3	80.6	U
120-12-7	Anthracene		20.2	40.3	80.6	U
56-55-3	Benzo(a)anthracene		20.2	40.3	80.6	X, U
50-32-8	Benzo(a)pyrene		20.2	40.3	80.6	U
205-99-2	Benzo(b)fluoranthene		20.2	40.3	80.6	U
191-24-2	Benzo(g,h,i)perylene	111	20.2	40.3	80.6	D
207-08-9	Benzo(k)fluoranthene		20.2	40.3	80.6	U
218-01-9	Chrysene	215	20.2	40.3	80.6	D
53-70-3	Dibenz(a,h)anthracene		20.2	40.3	80.6	U
206-44-0	Fluoranthene	104	20.2	40.3	80.6	D
86-73-7	Fluorene		20.2	40.3	80.6	U
193-39-5	Indeno(1,2,3-cd)pyrene	36.9	20.2	40.3	80.6	, D I
90-12-0	1-Methylnaphthalene		20.2	40.3	80.6	U
91-57-6	2-Methylnaphthalene		20.2	40.3	80.6	U
91-20-3	Naphthalene	26.3	20.2	40.3	80.6	, D I
85-01-8	Phenanthrene		20.2	40.3	80.6	U
129-00-0	Pyrene	521	20.2	40.3	80.6	D

SYSTEM MONITORING COMPOUND	ADDED (ug/Kg dry)	CONC (ug/Kg dry)	% REC	QC LIMITS	Q
2-Fluorobiphenyl	4030	3163	78.5	14 - 129	
Terphenyl-d14	4030	4466	111	14 - 129	

ANALYSIS DATA SHEET

FLC-4-RB01-022112

Laboratory:	Empirical Laboratories, LLC			SDG:	1202150
Client:	Tetra Tech NUS, Inc. (T010)			Project:	Navy Fuel Depot CTO JM46
Matrix:	Water	Laboratory ID:	1202150-05	File ID:	0215005.D
Sampled:	02/21/12 08:30	Prepared:	02/23/12 13:24	Analyzed:	02/28/12 21:11
Solids:		Preparation:	EXT_3510	Dilution:	1

Batch: 2B23003 Sequence: 2C06114 Calibration: 2052003 Instrument: MS-BNA4

CAS NO.	COMPOUND	CONC. (ug/L)	DL	LOD	LOQ	Q
83-32-9	Acenaphthene		0.0463	0.0926	0.185	U
208-96-8	Acenaphthylene		0.0463	0.0926	0.185	U
120-12-7	Anthracene		0.0463	0.0926	0.185	U
56-55-3	Benzo(a)anthracene		0.0463	0.0926	0.185	U
50-32-8	Benzo(a)pyrene		0.0463	0.0926	0.185	U
205-99-2	Benzo(b)fluoranthene		0.0463	0.0926	0.185	U
191-24-2	Benzo(g,h,i)perylene		0.0463	0.0926	0.185	U
207-08-9	Benzo(k)fluoranthene		0.0463	0.0926	0.185	U
218-01-9	Chrysene		0.0463	0.0926	0.185	U
53-70-3	Dibenz(a,h)anthracene		0.0463	0.0926	0.185	U
206-44-0	Fluoranthene		0.0463	0.0926	0.185	U
86-73-7	Fluorene		0.0463	0.0926	0.185	U
193-39-5	Indeno(1,2,3-cd)pyrene		0.0463	0.0926	0.185	U
90-12-0	1-Methylnaphthalene		0.0463	0.0926	0.185	U
91-57-6	2-Methylnaphthalene		0.0463	0.0926	0.185	U
91-20-3	Naphthalene		0.0463	0.0926	0.185	U
85-01-8	Phenanthrene	0.0569	0.0463	0.0926	0.185	I
129-00-0	Pyrene		0.0463	0.0926	0.185	U

SYSTEM MONITORING COMPOUND	ADDED (ug/L)	CONC (ug/L)	% REC	QC LIMITS	Q
2-Fluorobiphenyl	46.30	35.68	77.1	34 - 167	
Terphenyl-d14	46.30	50.03	108	34 - 167	

ANALYSIS DATA SHEET

FLC-4-PO2-0624-022112

Laboratory:	Empirical Laboratories, LLC			SDG:	1202150
Client:	Tetra Tech NUS, Inc. (T010)			Project:	Navy Fuel Depot CTO JM46
Matrix:	Solid	Laboratory ID:	1202150-06	File ID:	0215006.D
Sampled:	02/21/12 08:40	Prepared:	02/22/12 13:54	Analyzed:	02/24/12 23:43
Solids:	97.97	Preparation:	EXT_3546	Dilution:	1

Batch: 2B22014 Sequence: 2B06042 Calibration: 2052003 Instrument: MS-BNA4

CAS NO.	COMPOUND	CONC. (ug/Kg dry)	DL	LOD	LOQ	Q
83-32-9	Acenaphthene		1.64	3.27	6.67	U
208-96-8	Acenaphthylene	3.54	1.64	3.27	6.67	I
120-12-7	Anthracene		1.64	3.27	6.67	U
56-55-3	Benzo(a)anthracene	5.54	1.64	3.27	6.67	X, I
50-32-8	Benzo(a)pyrene	8.42	1.64	3.27	6.67	
205-99-2	Benzo(b)fluoranthene	8.13	1.64	3.27	6.67	
191-24-2	Benzo(g,h,i)perylene	10.6	1.64	3.27	6.67	
207-08-9	Benzo(k)fluoranthene	9.70	1.64	3.27	6.67	
218-01-9	Chrysene	15.1	1.64	3.27	6.67	
53-70-3	Dibenz(a,h)anthracene		1.64	3.27	6.67	U
206-44-0	Fluoranthene	9.92	1.64	3.27	6.67	
86-73-7	Fluorene		1.64	3.27	6.67	U
193-39-5	Indeno(1,2,3-cd)pyrene	7.84	1.64	3.27	6.67	
90-12-0	1-Methylnaphthalene		1.64	3.27	6.67	U
91-57-6	2-Methylnaphthalene		1.64	3.27	6.67	U
91-20-3	Naphthalene		1.64	3.27	6.67	U
85-01-8	Phenanthrene	4.19	1.64	3.27	6.67	I
129-00-0	Pyrene	18.2	1.64	3.27	6.67	

SYSTEM MONITORING COMPOUND	ADDED (ug/Kg dry)	CONC (ug/Kg dry)	% REC	QC LIMITS	Q
2-Fluorobiphenyl	3271	2122	64.9	14 - 129	
Terphenyl-d14	3271	2993	91.5	14 - 129	

ANALYSIS DATA SHEET

FLC-4-PO2-0204-022112

Laboratory:	Empirical Laboratories, LLC			SDG:	1202150
Client:	Tetra Tech NUS, Inc. (T010)			Project:	Navy Fuel Depot CTO JM46
Matrix:	Solid	Laboratory ID:	1202150-07	File ID:	0215007D.D
Sampled:	02/21/12 08:45	Prepared:	02/22/12 13:54	Analyzed:	02/25/12 00:12
Solids:	84.19	Preparation:	EXT_3546	Dilution:	50

Batch: 2B22014 Sequence: 2B06042 Calibration: 2052003 Instrument: MS-BNA4

CAS NO.	COMPOUND	CONC. (ug/Kg dry)	DL	LOD	LOQ	Q
83-32-9	Acenaphthene		97.2	194	388	U
208-96-8	Acenaphthylene		97.2	194	388	U
120-12-7	Anthracene		97.2	194	388	U
56-55-3	Benzo(a)anthracene		97.2	194	388	X, U
50-32-8	Benzo(a)pyrene	320	97.2	194	388	, D I
205-99-2	Benzo(b)fluoranthene	181	97.2	194	388	, D I
191-24-2	Benzo(g,h,i)perylene	234	97.2	194	388	, D I
207-08-9	Benzo(k)fluoranthene	121	97.2	194	388	, D I
218-01-9	Chrysene		97.2	194	388	U
53-70-3	Dibenz(a,h)anthracene		97.2	194	388	U
206-44-0	Fluoranthene	780	97.2	194	388	D
86-73-7	Fluorene		97.2	194	388	U
193-39-5	Indeno(1,2,3-cd)pyrene		97.2	194	388	U
90-12-0	1-Methylnaphthalene		97.2	194	388	U
91-57-6	2-Methylnaphthalene		97.2	194	388	U
91-20-3	Naphthalene		97.2	194	388	U
85-01-8	Phenanthrene		97.2	194	388	U
129-00-0	Pyrene	2710	97.2	194	388	D

SYSTEM MONITORING COMPOUND	ADDED (ug/Kg dry)	CONC (ug/Kg dry)	% REC	QC LIMITS	Q
2-Fluorobiphenyl	3882	2887	74.4	14 - 129	D
Terphenyl-d14	3882	4153	107	14 - 129	D

ANALYSIS DATA SHEET

FLC-4-PO3-0624-022112

Laboratory:	Empirical Laboratories, LLC		SDG:	1202150	
Client:	Tetra Tech NUS, Inc. (T010)		Project:	Navy Fuel Depot CTO JM46	
Matrix:	Solid	Laboratory ID:	1202150-08	File ID:	0215008.D
Sampled:	02/21/12 09:00	Prepared:	02/22/12 13:54	Analyzed:	02/25/12 00:41
Solids:	96.60	Preparation:	EXT_3546	Dilution:	1

Batch: 2B22014 Sequence: 2B06042 Calibration: 2052003 Instrument: MS-BNA4

CAS NO.	COMPOUND	CONC. (ug/Kg dry)	DL	LOD	LOQ	Q
83-32-9	Acenaphthene		1.69	3.38	6.77	U
208-96-8	Acenaphthylene		1.69	3.38	6.77	U
120-12-7	Anthracene		1.69	3.38	6.77	U
56-55-3	Benzo(a)anthracene		1.69	3.38	6.77	X, U
50-32-8	Benzo(a)pyrene	2.22	1.69	3.38	6.77	I
205-99-2	Benzo(b)fluoranthene		1.69	3.38	6.77	U
191-24-2	Benzo(g,h,i)perylene		1.69	3.38	6.77	U
207-08-9	Benzo(k)fluoranthene		1.69	3.38	6.77	U
218-01-9	Chrysene	2.06	1.69	3.38	6.77	I
53-70-3	Dibenz(a,h)anthracene		1.69	3.38	6.77	U
206-44-0	Fluoranthene		1.69	3.38	6.77	U
86-73-7	Fluorene		1.69	3.38	6.77	U
193-39-5	Indeno(1,2,3-cd)pyrene		1.69	3.38	6.77	U
90-12-0	1-Methylnaphthalene		1.69	3.38	6.77	U
91-57-6	2-Methylnaphthalene		1.69	3.38	6.77	U
91-20-3	Naphthalene		1.69	3.38	6.77	U
85-01-8	Phenanthrene		1.69	3.38	6.77	U
129-00-0	Pyrene	1.96	1.69	3.38	6.77	I

SYSTEM MONITORING COMPOUND	ADDED (ug/Kg dry)	CONC (ug/Kg dry)	% REC	QC LIMITS	Q
2-Fluorobiphenyl	3383	2235	66.1	14 - 129	
Terphenyl-d14	3383	3104	91.8	14 - 129	

ANALYSIS DATA SHEET

FLC-4-PO3-0204-022112

Laboratory:	Empirical Laboratories, LLC			SDG:	1202150
Client:	Tetra Tech NUS, Inc. (T010)			Project:	Navy Fuel Depot CTO JM46
Matrix:	Solid	Laboratory ID:	1202150-09	File ID:	0215009.D
Sampled:	02/21/12 09:05	Prepared:	02/22/12 13:54	Analyzed:	02/25/12 01:09
Solids:	84.72	Preparation:	EXT_3546	Dilution:	1

Batch: 2B22014 Sequence: 2B06042 Calibration: 2052003 Instrument: MS-BNA4

CAS NO.	COMPOUND	CONC. (ug/Kg dry)	DL	LOD	LOQ	Q
83-32-9	Acenaphthene		1.96	3.90	7.82	U
208-96-8	Acenaphthylene		1.96	3.90	7.82	U
120-12-7	Anthracene		1.96	3.90	7.82	U
56-55-3	Benzo(a)anthracene		1.96	3.90	7.82	X, U
50-32-8	Benzo(a)pyrene		1.96	3.90	7.82	U
205-99-2	Benzo(b)fluoranthene		1.96	3.90	7.82	U
191-24-2	Benzo(g,h,i)perylene		1.96	3.90	7.82	U
207-08-9	Benzo(k)fluoranthene		1.96	3.90	7.82	U
218-01-9	Chrysene		1.96	3.90	7.82	U
53-70-3	Dibenz(a,h)anthracene		1.96	3.90	7.82	U
206-44-0	Fluoranthene	3.26	1.96	3.90	7.82	I
86-73-7	Fluorene		1.96	3.90	7.82	U
193-39-5	Indeno(1,2,3-cd)pyrene		1.96	3.90	7.82	U
90-12-0	1-Methylnaphthalene		1.96	3.90	7.82	U
91-57-6	2-Methylnaphthalene		1.96	3.90	7.82	U
91-20-3	Naphthalene		1.96	3.90	7.82	U
85-01-8	Phenanthrene	2.88	1.96	3.90	7.82	I
129-00-0	Pyrene	2.65	1.96	3.90	7.82	I

SYSTEM MONITORING COMPOUND	ADDED (ug/Kg dry)	CONC (ug/Kg dry)	% REC	QC LIMITS	Q
2-Fluorobiphenyl	3908	2764	70.7	14 - 129	
Terphenyl-d14	3908	3672	93.9	14 - 129	

ANALYSIS DATA SHEET

FLC-4-PO4-0624-022112

Laboratory:	Empirical Laboratories, LLC		SDG:	1202150	
Client:	Tetra Tech NUS, Inc. (T010)		Project:	Navy Fuel Depot CTO JM46	
Matrix:	Solid	Laboratory ID:	1202150-10	File ID:	0215010.D
Sampled:	02/21/12 09:20	Prepared:	02/22/12 13:54	Analyzed:	02/25/12 01:37
Solids:	96.48	Preparation:	EXT_3546	Dilution:	1

Batch: 2B22014 Sequence: 2B06042 Calibration: 2052003 Instrument: MS-BNA4

CAS NO.	COMPOUND	CONC. (ug/Kg dry)	DL	LOD	LOQ	Q
83-32-9	Acenaphthene		1.69	3.36	6.73	U
208-96-8	Acenaphthylene		1.69	3.36	6.73	U
120-12-7	Anthracene		1.69	3.36	6.73	U
56-55-3	Benzo(a)anthracene		1.69	3.36	6.73	X, U
50-32-8	Benzo(a)pyrene		1.69	3.36	6.73	U
205-99-2	Benzo(b)fluoranthene		1.69	3.36	6.73	U
191-24-2	Benzo(g,h,i)perylene		1.69	3.36	6.73	U
207-08-9	Benzo(k)fluoranthene		1.69	3.36	6.73	U
218-01-9	Chrysene		1.69	3.36	6.73	U
53-70-3	Dibenz(a,h)anthracene		1.69	3.36	6.73	U
206-44-0	Fluoranthene	1.88	1.69	3.36	6.73	I
86-73-7	Fluorene		1.69	3.36	6.73	U
193-39-5	Indeno(1,2,3-cd)pyrene		1.69	3.36	6.73	U
90-12-0	1-Methylnaphthalene		1.69	3.36	6.73	U
91-57-6	2-Methylnaphthalene		1.69	3.36	6.73	U
91-20-3	Naphthalene		1.69	3.36	6.73	U
85-01-8	Phenanthrene		1.69	3.36	6.73	U
129-00-0	Pyrene	2.40	1.69	3.36	6.73	I

SYSTEM MONITORING COMPOUND	ADDED (ug/Kg dry)	CONC (ug/Kg dry)	% REC	QC LIMITS	Q
2-Fluorobiphenyl	3365	2344	69.7	14 - 129	
Terphenyl-d14	3365	3026	89.9	14 - 129	

ANALYSIS DATA SHEET

FLC-4-PO4-0204-022112

Laboratory:	Empirical Laboratories, LLC		SDG:	1202150	
Client:	Tetra Tech NUS, Inc. (T010)		Project:	Navy Fuel Depot CTO JM46	
Matrix:	Solid	Laboratory ID:	1202150-11	File ID:	0215011.D
Sampled:	02/21/12 09:25	Prepared:	02/22/12 13:54	Analyzed:	02/25/12 02:05
Solids:	84.64	Preparation:	EXT_3546	Dilution:	1

Batch: 2B22014 Sequence: 2B06042 Calibration: 2052003 Instrument: MS-BNA4

CAS NO.	COMPOUND	CONC. (ug/Kg dry)	DL	LOD	LOQ	Q
83-32-9	Acenaphthene		1.89	3.76	7.53	U
208-96-8	Acenaphthylene		1.89	3.76	7.53	U
120-12-7	Anthracene		1.89	3.76	7.53	U
56-55-3	Benzo(a)anthracene		1.89	3.76	7.53	X, U
50-32-8	Benzo(a)pyrene		1.89	3.76	7.53	U
205-99-2	Benzo(b)fluoranthene		1.89	3.76	7.53	U
191-24-2	Benzo(g,h,i)perylene		1.89	3.76	7.53	U
207-08-9	Benzo(k)fluoranthene		1.89	3.76	7.53	U
218-01-9	Chrysene	2.01	1.89	3.76	7.53	I
53-70-3	Dibenz(a,h)anthracene		1.89	3.76	7.53	U
206-44-0	Fluoranthene		1.89	3.76	7.53	U
86-73-7	Fluorene		1.89	3.76	7.53	U
193-39-5	Indeno(1,2,3-cd)pyrene		1.89	3.76	7.53	U
90-12-0	1-Methylnaphthalene		1.89	3.76	7.53	U
91-57-6	2-Methylnaphthalene		1.89	3.76	7.53	U
91-20-3	Naphthalene		1.89	3.76	7.53	U
85-01-8	Phenanthrene		1.89	3.76	7.53	U
129-00-0	Pyrene		1.89	3.76	7.53	U

SYSTEM MONITORING COMPOUND	ADDED (ug/Kg dry)	CONC (ug/Kg dry)	% REC	QC LIMITS	Q
2-Fluorobiphenyl	3763	2686	71.4	14 - 129	
Terphenyl-d14	3763	3552	94.4	14 - 129	

ANALYSIS DATA SHEET

FLC-4-DUP02-022112

Laboratory:	Empirical Laboratories, LLC			SDG:	1202150
Client:	Tetra Tech NUS, Inc. (T010)			Project:	Navy Fuel Depot CTO JM46
Matrix:	Solid	Laboratory ID:	1202150-12	File ID:	0215012D.D
Sampled:	02/21/12 00:00	Prepared:	02/22/12 13:54	Analyzed:	02/25/12 02:34
Solids:	85.55	Preparation:	EXT_3546	Dilution:	10

Batch: 2B22014 Sequence: 2B06042 Calibration: 2052003 Instrument: MS-BNA4

CAS NO.	COMPOUND	CONC. (ug/Kg dry)	DL	LOD	LOQ	Q
83-32-9	Acenaphthene		19.4	38.7	77.4	U
208-96-8	Acenaphthylene		19.4	38.7	77.4	U
120-12-7	Anthracene		19.4	38.7	77.4	U
56-55-3	Benzo(a)anthracene		19.4	38.7	77.4	X, U
50-32-8	Benzo(a)pyrene	54.4	19.4	38.7	77.4	, D I
205-99-2	Benzo(b)fluoranthene		19.4	38.7	77.4	U
191-24-2	Benzo(g,h,i)perylene	55.9	19.4	38.7	77.4	, D I
207-08-9	Benzo(k)fluoranthene		19.4	38.7	77.4	U
218-01-9	Chrysene	130	19.4	38.7	77.4	D
53-70-3	Dibenz(a,h)anthracene		19.4	38.7	77.4	U
206-44-0	Fluoranthene	82.0	19.4	38.7	77.4	D
86-73-7	Fluorene		19.4	38.7	77.4	U
193-39-5	Indeno(1,2,3-cd)pyrene		19.4	38.7	77.4	U
90-12-0	1-Methylnaphthalene		19.4	38.7	77.4	U
91-57-6	2-Methylnaphthalene		19.4	38.7	77.4	U
91-20-3	Naphthalene		19.4	38.7	77.4	U
85-01-8	Phenanthrene		19.4	38.7	77.4	U
129-00-0	Pyrene	283	19.4	38.7	77.4	D

SYSTEM MONITORING COMPOUND	ADDED (ug/Kg dry)	CONC (ug/Kg dry)	% REC	QC LIMITS	Q
2-Fluorobiphenyl	3870	3201	82.7	14 - 129	
Terphenyl-d14	3870	4093	106	14 - 129	

ANALYSIS DATA SHEET

FLC-4-DUP01-022112

Laboratory:	Empirical Laboratories, LLC			SDG:	1202150
Client:	Tetra Tech NUS, Inc. (T010)			Project:	Navy Fuel Depot CTO JM46
Matrix:	Solid	Laboratory ID:	1202150-13	File ID:	0215013.D
Sampled:	02/21/12 00:00	Prepared:	02/22/12 13:54	Analyzed:	02/25/12 03:02
Solids:	96.51	Preparation:	EXT_3546	Dilution:	1

Batch: 2B22014 Sequence: 2B06042 Calibration: 2052003 Instrument: MS-BNA4

CAS NO.	COMPOUND	CONC. (ug/Kg dry)	DL	LOD	LOQ	Q
83-32-9	Acenaphthene	3.51	1.67	3.34	6.69	I
208-96-8	Acenaphthylene	60.1	1.67	3.34	6.69	
120-12-7	Anthracene	17.6	1.67	3.34	6.69	
56-55-3	Benzo(a)anthracene	124	1.67	3.34	6.69	X
50-32-8	Benzo(a)pyrene	165	1.67	3.34	6.69	
205-99-2	Benzo(b)fluoranthene	153	1.67	3.34	6.69	
191-24-2	Benzo(g,h,i)perylene	110	1.67	3.34	6.69	
207-08-9	Benzo(k)fluoranthene	168	1.67	3.34	6.69	
218-01-9	Chrysene	224	1.67	3.34	6.69	
53-70-3	Dibenz(a,h)anthracene	36.6	1.67	3.34	6.69	
206-44-0	Fluoranthene	191	1.67	3.34	6.69	
86-73-7	Fluorene		1.67	3.34	6.69	U
193-39-5	Indeno(1,2,3-cd)pyrene	89.9	1.67	3.34	6.69	
90-12-0	1-Methylnaphthalene	7.68	1.67	3.34	6.69	
91-57-6	2-Methylnaphthalene	12.5	1.67	3.34	6.69	
91-20-3	Naphthalene	13.7	1.67	3.34	6.69	
85-01-8	Phenanthrene	77.5	1.67	3.34	6.69	
129-00-0	Pyrene	290	1.67	3.34	6.69	

SYSTEM MONITORING COMPOUND	ADDED (ug/Kg dry)	CONC (ug/Kg dry)	% REC	QC LIMITS	Q
2-Fluorobiphenyl	3343	2309	69.1	14 - 129	
Terphenyl-d14	3343	2984	89.3	14 - 129	

ANALYSIS DATA SHEET

FLC-4-RB02-022112

Laboratory:	Empirical Laboratories, LLC			SDG:	1202150
Client:	Tetra Tech NUS, Inc. (T010)			Project:	Navy Fuel Depot CTO JM46
Matrix:	Water	Laboratory ID:	1202150-14	File ID:	0215014.D
Sampled:	02/21/12 09:30	Prepared:	02/23/12 13:24	Analyzed:	02/28/12 21:40
Solids:		Preparation:	EXT_3510	Dilution:	1

Batch: 2B23003 Sequence: 2C06114 Calibration: 2052003 Instrument: MS-BNA4

CAS NO.	COMPOUND	CONC. (ug/L)	DL	LOD	LOQ	Q
83-32-9	Acenaphthene		0.0463	0.0926	0.185	U
208-96-8	Acenaphthylene		0.0463	0.0926	0.185	U
120-12-7	Anthracene		0.0463	0.0926	0.185	U
56-55-3	Benzo(a)anthracene		0.0463	0.0926	0.185	U
50-32-8	Benzo(a)pyrene		0.0463	0.0926	0.185	U
205-99-2	Benzo(b)fluoranthene		0.0463	0.0926	0.185	U
191-24-2	Benzo(g,h,i)perylene		0.0463	0.0926	0.185	U
207-08-9	Benzo(k)fluoranthene		0.0463	0.0926	0.185	U
218-01-9	Chrysene		0.0463	0.0926	0.185	U
53-70-3	Dibenz(a,h)anthracene		0.0463	0.0926	0.185	U
206-44-0	Fluoranthene		0.0463	0.0926	0.185	U
86-73-7	Fluorene		0.0463	0.0926	0.185	U
193-39-5	Indeno(1,2,3-cd)pyrene		0.0463	0.0926	0.185	U
90-12-0	1-Methylnaphthalene		0.0463	0.0926	0.185	U
91-57-6	2-Methylnaphthalene		0.0463	0.0926	0.185	U
91-20-3	Naphthalene		0.0463	0.0926	0.185	U
85-01-8	Phenanthrene		0.0463	0.0926	0.185	U
129-00-0	Pyrene		0.0463	0.0926	0.185	U

SYSTEM MONITORING COMPOUND	ADDED (ug/L)	CONC (ug/L)	% REC	QC LIMITS	Q
2-Fluorobiphenyl	46.30	34.86	75.3	34 - 167	
Terphenyl-d14	46.30	49.59	107	34 - 167	

ANALYSIS DATA SHEET

FLC-4-PO6-0624-022112

Laboratory:	Empirical Laboratories, LLC			SDG:	1202150
Client:	Tetra Tech NUS, Inc. (T010)			Project:	Navy Fuel Depot CTO JM46
Matrix:	Solid	Laboratory ID:	1202150-17	File ID:	0215017.D
Sampled:	02/21/12 10:15	Prepared:	02/22/12 13:54	Analyzed:	02/25/12 05:23
Solids:	95.33	Preparation:	EXT_3546	Dilution:	1

Batch: 2B22014 Sequence: 2B06042 Calibration: 2052003 Instrument: MS-BNA4

CAS NO.	COMPOUND	CONC. (ug/Kg dry)	DL	LOD	LOQ	Q
83-32-9	Acenaphthene		1.65	3.30	6.67	U
208-96-8	Acenaphthylene	2.82	1.65	3.30	6.67	I
120-12-7	Anthracene		1.65	3.30	6.67	U
56-55-3	Benzo(a)anthracene		1.65	3.30	6.67	X, U
50-32-8	Benzo(a)pyrene	7.62	1.65	3.30	6.67	
205-99-2	Benzo(b)fluoranthene		1.65	3.30	6.67	U
191-24-2	Benzo(g,h,i)perylene	5.15	1.65	3.30	6.67	I
207-08-9	Benzo(k)fluoranthene		1.65	3.30	6.67	U
218-01-9	Chrysene	15.5	1.65	3.30	6.67	
53-70-3	Dibenz(a,h)anthracene		1.65	3.30	6.67	U
206-44-0	Fluoranthene	18.7	1.65	3.30	6.67	
86-73-7	Fluorene		1.65	3.30	6.67	U
193-39-5	Indeno(1,2,3-cd)pyrene	4.60	1.65	3.30	6.67	I
90-12-0	1-Methylnaphthalene		1.65	3.30	6.67	U
91-57-6	2-Methylnaphthalene	1.91	1.65	3.30	6.67	I
91-20-3	Naphthalene		1.65	3.30	6.67	U
85-01-8	Phenanthrene	18.9	1.65	3.30	6.67	
129-00-0	Pyrene	26.1	1.65	3.30	6.67	

SYSTEM MONITORING COMPOUND	ADDED (ug/Kg dry)	CONC (ug/Kg dry)	% REC	QC LIMITS	Q
2-Fluorobiphenyl	3299	2242	68.0	14 - 129	
Terphenyl-d14	3299	3166	96.0	14 - 129	

ANALYSIS DATA SHEET

FLC-4-PO6-0204-022112

Laboratory:	Empirical Laboratories, LLC			SDG:	1202150
Client:	Tetra Tech NUS, Inc. (T010)			Project:	Navy Fuel Depot CTO JM46
Matrix:	Solid	Laboratory ID:	1202150-18	File ID:	0215018.D
Sampled:	02/21/12 10:20	Prepared:	02/22/12 13:54	Analyzed:	02/25/12 05:51
Solids:	79.20	Preparation:	EXT_3546	Dilution:	1

Batch: 2B22014 Sequence: 2B06042 Calibration: 2052003 Instrument: MS-BNA4

CAS NO.	COMPOUND	CONC. (ug/Kg dry)	DL	LOD	LOQ	Q
83-32-9	Acenaphthene		2.08	4.15	8.31	U
208-96-8	Acenaphthylene		2.08	4.15	8.31	U
120-12-7	Anthracene		2.08	4.15	8.31	U
56-55-3	Benzo(a)anthracene		2.08	4.15	8.31	X, U
50-32-8	Benzo(a)pyrene		2.08	4.15	8.31	U
205-99-2	Benzo(b)fluoranthene		2.08	4.15	8.31	U
191-24-2	Benzo(g,h,i)perylene		2.08	4.15	8.31	U
207-08-9	Benzo(k)fluoranthene		2.08	4.15	8.31	U
218-01-9	Chrysene		2.08	4.15	8.31	U
53-70-3	Dibenz(a,h)anthracene		2.08	4.15	8.31	U
206-44-0	Fluoranthene	3.41	2.08	4.15	8.31	I
86-73-7	Fluorene		2.08	4.15	8.31	U
193-39-5	Indeno(1,2,3-cd)pyrene		2.08	4.15	8.31	U
90-12-0	1-Methylnaphthalene		2.08	4.15	8.31	U
91-57-6	2-Methylnaphthalene		2.08	4.15	8.31	U
91-20-3	Naphthalene		2.08	4.15	8.31	U
85-01-8	Phenanthrene	3.03	2.08	4.15	8.31	I
129-00-0	Pyrene	2.85	2.08	4.15	8.31	I

SYSTEM MONITORING COMPOUND	ADDED (ug/Kg dry)	CONC (ug/Kg dry)	% REC	QC LIMITS	Q
2-Fluorobiphenyl	4154	2920	70.3	14 - 129	
Terphenyl-d14	4154	4040	97.3	14 - 129	

ANALYSIS DATA SHEET

FLC-4-PO7-0624-022112

Laboratory:	Empirical Laboratories, LLC			SDG:	1202150
Client:	Tetra Tech NUS, Inc. (T010)			Project:	Navy Fuel Depot CTO JM46
Matrix:	Solid	Laboratory ID:	1202150-19	File ID:	0215019.D
Sampled:	02/21/12 10:25	Prepared:	02/22/12 13:54	Analyzed:	02/25/12 06:19
Solids:	95.12	Preparation:	EXT_3546	Dilution:	1

Batch: 2B22014 Sequence: 2B06042 Calibration: 2052003 Instrument: MS-BNA4

CAS NO.	COMPOUND	CONC. (ug/Kg dry)	DL	LOD	LOQ	Q
83-32-9	Acenaphthene		1.71	3.41	6.83	U
208-96-8	Acenaphthylene		1.71	3.41	6.83	U
120-12-7	Anthracene		1.71	3.41	6.83	U
56-55-3	Benzo(a)anthracene	2.80	1.71	3.41	6.83	X, I
50-32-8	Benzo(a)pyrene		1.71	3.41	6.83	U
205-99-2	Benzo(b)fluoranthene		1.71	3.41	6.83	U
191-24-2	Benzo(g,h,i)perylene		1.71	3.41	6.83	U
207-08-9	Benzo(k)fluoranthene		1.71	3.41	6.83	U
218-01-9	Chrysene	4.08	1.71	3.41	6.83	I
53-70-3	Dibenz(a,h)anthracene		1.71	3.41	6.83	U
206-44-0	Fluoranthene	5.39	1.71	3.41	6.83	I
86-73-7	Fluorene		1.71	3.41	6.83	U
193-39-5	Indeno(1,2,3-cd)pyrene		1.71	3.41	6.83	U
90-12-0	1-Methylnaphthalene		1.71	3.41	6.83	U
91-57-6	2-Methylnaphthalene		1.71	3.41	6.83	U
91-20-3	Naphthalene		1.71	3.41	6.83	U
85-01-8	Phenanthrene	2.64	1.71	3.41	6.83	I
129-00-0	Pyrene	5.54	1.71	3.41	6.83	I

SYSTEM MONITORING COMPOUND	ADDED (ug/Kg dry)	CONC (ug/Kg dry)	% REC	QC LIMITS	Q
2-Fluorobiphenyl	3413	2400	70.3	14 - 129	
Terphenyl-d14	3413	3246	95.1	14 - 129	

ANALYSIS DATA SHEET

FLC-4-PO7-0204-022112

Laboratory:	Empirical Laboratories, LLC			SDG:	1202150
Client:	Tetra Tech NUS, Inc. (T010)			Project:	Navy Fuel Depot CTO JM46
Matrix:	Solid	Laboratory ID:	1202150-20	File ID:	0215020.D
Sampled:	02/21/12 10:30	Prepared:	02/22/12 13:54	Analyzed:	02/25/12 06:47
Solids:	92.39	Preparation:	EXT_3546	Dilution:	1

Batch: 2B22014 Sequence: 2B06042 Calibration: 2052003 Instrument: MS-BNA4

CAS NO.	COMPOUND	CONC. (ug/Kg dry)	DL	LOD	LOQ	Q
83-32-9	Acenaphthene		1.78	3.56	7.12	U
208-96-8	Acenaphthylene		1.78	3.56	7.12	U
120-12-7	Anthracene		1.78	3.56	7.12	U
56-55-3	Benzo(a)anthracene		1.78	3.56	7.12	X, U
50-32-8	Benzo(a)pyrene		1.78	3.56	7.12	U
205-99-2	Benzo(b)fluoranthene		1.78	3.56	7.12	U
191-24-2	Benzo(g,h,i)perylene		1.78	3.56	7.12	U
207-08-9	Benzo(k)fluoranthene		1.78	3.56	7.12	U
218-01-9	Chrysene		1.78	3.56	7.12	U
53-70-3	Dibenz(a,h)anthracene		1.78	3.56	7.12	U
206-44-0	Fluoranthene		1.78	3.56	7.12	U
86-73-7	Fluorene		1.78	3.56	7.12	U
193-39-5	Indeno(1,2,3-cd)pyrene		1.78	3.56	7.12	U
90-12-0	1-Methylnaphthalene		1.78	3.56	7.12	U
91-57-6	2-Methylnaphthalene		1.78	3.56	7.12	U
91-20-3	Naphthalene		1.78	3.56	7.12	U
85-01-8	Phenanthrene		1.78	3.56	7.12	U
129-00-0	Pyrene	1.81	1.78	3.56	7.12	I

SYSTEM MONITORING COMPOUND	ADDED (ug/Kg dry)	CONC (ug/Kg dry)	% REC	QC LIMITS	Q
2-Fluorobiphenyl	3560	2463	69.2	14 - 129	
Terphenyl-d14	3560	3334	93.6	14 - 129	

ANALYSIS DATA SHEET

FLC-4-PO8-0624-022112

Laboratory:	Empirical Laboratories, LLC			SDG:	1202150
Client:	Tetra Tech NUS, Inc. (T010)			Project:	Navy Fuel Depot CTO JM46
Matrix:	Solid	Laboratory ID:	1202150-21	File ID:	0215021.D
Sampled:	02/21/12 10:35	Prepared:	02/22/12 13:54	Analyzed:	02/25/12 07:16
Solids:	96.39	Preparation:	EXT_3546	Dilution:	1

Batch: 2B22014 Sequence: 2B06042 Calibration: 2052003 Instrument: MS-BNA4

CAS NO.	COMPOUND	CONC. (ug/Kg dry)	DL	LOD	LOQ	Q
83-32-9	Acenaphthene		1.72	3.43	6.87	U
208-96-8	Acenaphthylene		1.72	3.43	6.87	U
120-12-7	Anthracene		1.72	3.43	6.87	U
56-55-3	Benzo(a)anthracene		1.72	3.43	6.87	X, U
50-32-8	Benzo(a)pyrene		1.72	3.43	6.87	U
205-99-2	Benzo(b)fluoranthene		1.72	3.43	6.87	U
191-24-2	Benzo(g,h,i)perylene		1.72	3.43	6.87	U
207-08-9	Benzo(k)fluoranthene		1.72	3.43	6.87	U
218-01-9	Chrysene		1.72	3.43	6.87	U
53-70-3	Dibenz(a,h)anthracene		1.72	3.43	6.87	U
206-44-0	Fluoranthene		1.72	3.43	6.87	U
86-73-7	Fluorene		1.72	3.43	6.87	U
193-39-5	Indeno(1,2,3-cd)pyrene		1.72	3.43	6.87	U
90-12-0	1-Methylnaphthalene		1.72	3.43	6.87	U
91-57-6	2-Methylnaphthalene		1.72	3.43	6.87	U
91-20-3	Naphthalene		1.72	3.43	6.87	U
85-01-8	Phenanthrene		1.72	3.43	6.87	U
129-00-0	Pyrene		1.72	3.43	6.87	U

SYSTEM MONITORING COMPOUND	ADDED (ug/Kg dry)	CONC (ug/Kg dry)	% REC	QC LIMITS	Q
2-Fluorobiphenyl	3435	2352	68.5	14 - 129	
Terphenyl-d14	3435	3101	90.3	14 - 129	

ANALYSIS DATA SHEET

FLC-4-PO8-0204-022112

Laboratory:	Empirical Laboratories, LLC		SDG:	1202150	
Client:	Tetra Tech NUS, Inc. (T010)		Project:	Navy Fuel Depot CTO JM46	
Matrix:	Solid	Laboratory ID:	1202150-22	File ID:	0215022.D
Sampled:	02/21/12 10:40	Prepared:	02/24/12 10:05	Analyzed:	02/29/12 01:28
Solids:	91.67	Preparation:	EXT_3546	Dilution:	1

Batch: 2B24004 Sequence: 2C06114 Calibration: 2052003 Instrument: MS-BNA4

CAS NO.	COMPOUND	CONC. (ug/Kg dry)	DL	LOD	LOQ	Q
83-32-9	Acenaphthene		1.76	3.52	7.04	U
208-96-8	Acenaphthylene		1.76	3.52	7.04	U
120-12-7	Anthracene		1.76	3.52	7.04	U
56-55-3	Benzo(a)anthracene		1.76	3.52	7.04	U
50-32-8	Benzo(a)pyrene		1.76	3.52	7.04	U
205-99-2	Benzo(b)fluoranthene		1.76	3.52	7.04	U
191-24-2	Benzo(g,h,i)perylene		1.76	3.52	7.04	N, U
207-08-9	Benzo(k)fluoranthene		1.76	3.52	7.04	U
218-01-9	Chrysene		1.76	3.52	7.04	U
53-70-3	Dibenz(a,h)anthracene		1.76	3.52	7.04	N, U
206-44-0	Fluoranthene	1.77	1.76	3.52	7.04	I
86-73-7	Fluorene		1.76	3.52	7.04	U
193-39-5	Indeno(1,2,3-cd)pyrene		1.76	3.52	7.04	N, U
90-12-0	1-Methylnaphthalene		1.76	3.52	7.04	U
91-57-6	2-Methylnaphthalene		1.76	3.52	7.04	U
91-20-3	Naphthalene		1.76	3.52	7.04	U
85-01-8	Phenanthrene		1.76	3.52	7.04	U
129-00-0	Pyrene	1.95	1.76	3.52	7.04	I

SYSTEM MONITORING COMPOUND	ADDED (ug/Kg dry)	CONC (ug/Kg dry)	% REC	QC LIMITS	Q
2-Fluorobiphenyl	3519	2757	78.4	14 - 129	
Terphenyl-d14	3519	3350	95.2	14 - 129	

ANALYSIS DATA SHEET

FLC-4-PO9-0006-022112

Laboratory:	Empirical Laboratories, LLC			SDG:	1202150
Client:	Tetra Tech NUS, Inc. (T010)			Project:	Navy Fuel Depot CTO JM46
Matrix:	Solid	Laboratory ID:	1202150-23	File ID:	0215023.D
Sampled:	02/21/12 10:50	Prepared:	02/24/12 10:05	Analyzed:	02/29/12 02:54
Solids:	90.43	Preparation:	EXT_3546	Dilution:	1

Batch: 2B24004 Sequence: 2C06114 Calibration: 2052003 Instrument: MS-BNA4

CAS NO.	COMPOUND	CONC. (ug/Kg dry)	DL	LOD	LOQ	Q
83-32-9	Acenaphthene		1.75	3.50	7.00	U
208-96-8	Acenaphthylene	3.84	1.75	3.50	7.00	I
120-12-7	Anthracene	2.82	1.75	3.50	7.00	I
56-55-3	Benzo(a)anthracene	45.5	1.75	3.50	7.00	
50-32-8	Benzo(a)pyrene	51.0	1.75	3.50	7.00	
205-99-2	Benzo(b)fluoranthene	49.5	1.75	3.50	7.00	
191-24-2	Benzo(g,h,i)perylene	37.7	1.75	3.50	7.00	
207-08-9	Benzo(k)fluoranthene	50.5	1.75	3.50	7.00	
218-01-9	Chrysene	70.4	1.75	3.50	7.00	
53-70-3	Dibenz(a,h)anthracene	12.3	1.75	3.50	7.00	
206-44-0	Fluoranthene	70.1	1.75	3.50	7.00	
86-73-7	Fluorene		1.75	3.50	7.00	U
193-39-5	Indeno(1,2,3-cd)pyrene	27.9	1.75	3.50	7.00	
90-12-0	1-Methylnaphthalene		1.75	3.50	7.00	U
91-57-6	2-Methylnaphthalene	2.56	1.75	3.50	7.00	I
91-20-3	Naphthalene	4.48	1.75	3.50	7.00	I
85-01-8	Phenanthrene	27.2	1.75	3.50	7.00	
129-00-0	Pyrene	98.4	1.75	3.50	7.00	

SYSTEM MONITORING COMPOUND	ADDED (ug/Kg dry)	CONC (ug/Kg dry)	% REC	QC LIMITS	Q
2-Fluorobiphenyl	3499	2413	68.9	14 - 129	
Terphenyl-d14	3499	3305	94.4	14 - 129	

ANALYSIS DATA SHEET

FLC-4-PO9-0624-022112

Laboratory:	Empirical Laboratories, LLC			SDG:	1202150
Client:	Tetra Tech NUS, Inc. (T010)			Project:	Navy Fuel Depot CTO JM46
Matrix:	Solid	Laboratory ID:	1202150-24	File ID:	0215024.D
Sampled:	02/21/12 10:55	Prepared:	02/24/12 10:05	Analyzed:	02/29/12 03:22
Solids:	95.95	Preparation:	EXT_3546	Dilution:	1

Batch: 2B24004 Sequence: 2C06114 Calibration: 2052003 Instrument: MS-BNA4

CAS NO.	COMPOUND	CONC. (ug/Kg dry)	DL	LOD	LOQ	Q
83-32-9	Acenaphthene		1.70	3.38	6.77	U
208-96-8	Acenaphthylene		1.70	3.38	6.77	U
120-12-7	Anthracene		1.70	3.38	6.77	U
56-55-3	Benzo(a)anthracene	2.08	1.70	3.38	6.77	I
50-32-8	Benzo(a)pyrene		1.70	3.38	6.77	U
205-99-2	Benzo(b)fluoranthene	2.72	1.70	3.38	6.77	I
191-24-2	Benzo(g,h,i)perylene		1.70	3.38	6.77	U
207-08-9	Benzo(k)fluoranthene	2.09	1.70	3.38	6.77	I
218-01-9	Chrysene	2.90	1.70	3.38	6.77	I
53-70-3	Dibenz(a,h)anthracene		1.70	3.38	6.77	U
206-44-0	Fluoranthene	2.80	1.70	3.38	6.77	I
86-73-7	Fluorene		1.70	3.38	6.77	U
193-39-5	Indeno(1,2,3-cd)pyrene		1.70	3.38	6.77	U
90-12-0	1-Methylnaphthalene		1.70	3.38	6.77	U
91-57-6	2-Methylnaphthalene		1.70	3.38	6.77	U
91-20-3	Naphthalene		1.70	3.38	6.77	U
85-01-8	Phenanthrene	1.90	1.70	3.38	6.77	I
129-00-0	Pyrene	3.45	1.70	3.38	6.77	I

SYSTEM MONITORING COMPOUND	ADDED (ug/Kg dry)	CONC (ug/Kg dry)	% REC	QC LIMITS	Q
2-Fluorobiphenyl	3384	2635	77.9	14 - 129	
Terphenyl-d14	3384	3416	101	14 - 129	

ANALYSIS DATA SHEET

FLC-4-PO9-0204-022112

Laboratory:	Empirical Laboratories, LLC			SDG:	1202150
Client:	Tetra Tech NUS, Inc. (T010)			Project:	Navy Fuel Depot CTO JM46
Matrix:	Solid	Laboratory ID:	1202150-25	File ID:	0215025.D
Sampled:	02/21/12 11:00	Prepared:	02/24/12 10:05	Analyzed:	02/29/12 03:50
Solids:	95.99	Preparation:	EXT_3546	Dilution:	1

Batch: 2B24004 Sequence: 2C06114 Calibration: 2052003 Instrument: MS-BNA4

CAS NO.	COMPOUND	CONC. (ug/Kg dry)	DL	LOD	LOQ	Q
83-32-9	Acenaphthene		1.66	3.31	6.67	U
208-96-8	Acenaphthylene		1.66	3.31	6.67	U
120-12-7	Anthracene		1.66	3.31	6.67	U
56-55-3	Benzo(a)anthracene	4.16	1.66	3.31	6.67	I
50-32-8	Benzo(a)pyrene	4.73	1.66	3.31	6.67	I
205-99-2	Benzo(b)fluoranthene	4.25	1.66	3.31	6.67	I
191-24-2	Benzo(g,h,i)perylene	3.74	1.66	3.31	6.67	I
207-08-9	Benzo(k)fluoranthene	4.45	1.66	3.31	6.67	I
218-01-9	Chrysene	5.89	1.66	3.31	6.67	I
53-70-3	Dibenz(a,h)anthracene		1.66	3.31	6.67	U
206-44-0	Fluoranthene	6.14	1.66	3.31	6.67	I
86-73-7	Fluorene		1.66	3.31	6.67	U
193-39-5	Indeno(1,2,3-cd)pyrene	2.72	1.66	3.31	6.67	I
90-12-0	1-Methylnaphthalene		1.66	3.31	6.67	U
91-57-6	2-Methylnaphthalene		1.66	3.31	6.67	U
91-20-3	Naphthalene		1.66	3.31	6.67	U
85-01-8	Phenanthrene	2.81	1.66	3.31	6.67	I
129-00-0	Pyrene	8.46	1.66	3.31	6.67	

SYSTEM MONITORING COMPOUND	ADDED (ug/Kg dry)	CONC (ug/Kg dry)	% REC	QC LIMITS	Q
2-Fluorobiphenyl	3318	2568	77.4	14 - 129	
Terphenyl-d14	3318	3402	103	14 - 129	

ANALYSIS DATA SHEET

FLC-4-DUP03-022112

Laboratory:	Empirical Laboratories, LLC			SDG:	1202150
Client:	Tetra Tech NUS, Inc. (T010)			Project:	Navy Fuel Depot CTO JM46
Matrix:	Solid	Laboratory ID:	1202150-26	File ID:	0215026.D
Sampled:	02/21/12 00:00	Prepared:	02/24/12 10:05	Analyzed:	02/29/12 04:19
Solids:	84.99	Preparation:	EXT_3546	Dilution:	1

Batch: 2B24004 Sequence: 2C06114 Calibration: 2052003 Instrument: MS-BNA4

CAS NO.	COMPOUND	CONC. (ug/Kg dry)	DL	LOD	LOQ	Q
83-32-9	Acenaphthene		1.89	3.77	7.55	U
208-96-8	Acenaphthylene		1.89	3.77	7.55	U
120-12-7	Anthracene		1.89	3.77	7.55	U
56-55-3	Benzo(a)anthracene		1.89	3.77	7.55	U
50-32-8	Benzo(a)pyrene		1.89	3.77	7.55	U
205-99-2	Benzo(b)fluoranthene		1.89	3.77	7.55	U
191-24-2	Benzo(g,h,i)perylene		1.89	3.77	7.55	U
207-08-9	Benzo(k)fluoranthene		1.89	3.77	7.55	U
218-01-9	Chrysene		1.89	3.77	7.55	U
53-70-3	Dibenz(a,h)anthracene		1.89	3.77	7.55	U
206-44-0	Fluoranthene		1.89	3.77	7.55	U
86-73-7	Fluorene		1.89	3.77	7.55	U
193-39-5	Indeno(1,2,3-cd)pyrene		1.89	3.77	7.55	U
90-12-0	1-Methylnaphthalene		1.89	3.77	7.55	U
91-57-6	2-Methylnaphthalene		1.89	3.77	7.55	U
91-20-3	Naphthalene		1.89	3.77	7.55	U
85-01-8	Phenanthrene		1.89	3.77	7.55	U
129-00-0	Pyrene		1.89	3.77	7.55	U

SYSTEM MONITORING COMPOUND	ADDED (ug/Kg dry)	CONC (ug/Kg dry)	% REC	QC LIMITS	Q
2-Fluorobiphenyl	3771	2664	70.6	14 - 129	
Terphenyl-d14	3771	3267	86.6	14 - 129	

SURROGATE STANDARD RECOVERY AND RT SUMMARY

SW8270C

Laboratory:	Empirical Laboratories, LLC	SDG:	1202150
Client:	Tetra Tech NUS, Inc. (T010)	Project:	Navy Fuel Depot CTO JM46
Sequence:	2B05912	Instrument:	MS-BNA4
		Calibration:	2052003

Surrogate Compound	Spike Level	% Recovery	Recovery Limits	RT	CCV RT	RT Diff	RT Diff Limit	Q
Calibration Check (2B05912-CCV1) ug/mL				Lab File ID: SEQ-CCV1.D		Analyzed: 02/24/12 10:28		
2-Fluorobiphenyl	5.000	87.8	80 - 120	7.557	7.557	0.0000	+/-0.500	
Terphenyl-d14	5.000	89.4	80 - 120	12.428	12.428	0.0000	+/-0.500	
LCS (2B22014-BS1) ug/Kg wet				Lab File ID: B22014L1.D		Analyzed: 02/24/12 19:05		
2-Fluorobiphenyl	3333	76.7	14 - 129	7.557	7.557	0.0000	+/-0.500	
Terphenyl-d14	3333	98.9	14 - 129	12.447	12.428	0.0190	+/-0.500	
Blank (2B22014-BLK1) ug/Kg wet				Lab File ID: B22014B1.D		Analyzed: 02/24/12 19:33		
2-Fluorobiphenyl	3333	77.6	14 - 129	7.557	7.557	0.0000	+/-0.500	
Terphenyl-d14	3333	104	14 - 129	12.438	12.428	0.0100	+/-0.500	
FLC-4-SS03-0006-022112 (1202150-01) ug/Kg dry				Lab File ID: 0215001D.D		Analyzed: 02/24/12 20:01		
2-Fluorobiphenyl	3493	82.3	14 - 129	7.557	7.557	0.0000	+/-0.500	
Terphenyl-d14	3493	106	14 - 129	12.429	12.428	0.0010	+/-0.500	
Matrix Spike (2B22014-MS1) ug/Kg dry				Lab File ID: 0215001M.D		Analyzed: 02/24/12 20:29		
2-Fluorobiphenyl	3425	87.5	14 - 129	7.557	7.557	0.0000	+/-0.500	
Terphenyl-d14	3425	112	14 - 129	12.428	12.428	0.0000	+/-0.500	
Matrix Spike Dup (2B22014-MSD1) ug/Kg dry				Lab File ID: 0215001S.D		Analyzed: 02/24/12 20:57		
2-Fluorobiphenyl	3381	78.8	14 - 129	7.557	7.557	0.0000	+/-0.500	
Terphenyl-d14	3381	102	14 - 129	12.429	12.428	0.0010	+/-0.500	
FLC-4-SS04-0006-022112 (1202150-02) ug/Kg dry				Lab File ID: 0215002D.D		Analyzed: 02/24/12 21:25		
2-Fluorobiphenyl	4351	89.7	14 - 129	7.557	7.557	0.0000	+/-0.500	
Terphenyl-d14	4351	120	14 - 129	12.429	12.428	0.0010	+/-0.500	
FLC-4-PO1-0624-022112 (1202150-03) ug/Kg dry				Lab File ID: 0215003.D		Analyzed: 02/24/12 21:52		
2-Fluorobiphenyl	4182	68.6	14 - 129	7.557	7.557	0.0000	+/-0.500	
Terphenyl-d14	4182	95.4	14 - 129	12.438	12.428	0.0100	+/-0.500	

SURROGATE STANDARD RECOVERY AND RT SUMMARY

SW8270C

Laboratory:	Empirical Laboratories, LLC	SDG:	1202150
Client:	Tetra Tech NUS, Inc. (T010)	Project:	Navy Fuel Depot CTO JM46
Sequence:	2B06042	Instrument:	MS-BNA4
		Calibration:	2052003

Surrogate Compound	Spike Level	% Recovery	Recovery Limits	RT	CCV RT	RT Diff	RT Diff Limit	Q
Calibration Check (2B06042-CCV1) ug/mL				Lab File ID: SEQ-CCV2.D		Analyzed: 02/24/12 22:46		
2-Fluorobiphenyl	5.000	83.6	80 - 120	7.557	7.557	0.0000	+/-0.500	
Terphenyl-d14	5.000	95.3	80 - 120	12.428	12.428	0.0000	+/-0.500	
FLC-4-PO1-0204-022112 (1202150-04) ug/Kg dry				Lab File ID: 0215004D.D		Analyzed: 02/24/12 23:15		
2-Fluorobiphenyl	4030	78.5	14 - 129	7.557	7.557	0.0000	+/-0.500	
Terphenyl-d14	4030	111	14 - 129	12.428	12.428	0.0000	+/-0.500	
FLC-4-PO2-0624-022112 (1202150-06) ug/Kg dry				Lab File ID: 0215006.D		Analyzed: 02/24/12 23:43		
2-Fluorobiphenyl	3271	64.9	14 - 129	7.557	7.557	0.0000	+/-0.500	
Terphenyl-d14	3271	91.5	14 - 129	12.438	12.428	0.0100	+/-0.500	
FLC-4-PO2-0204-022112 (1202150-07) ug/Kg dry				Lab File ID: 0215007D.D		Analyzed: 02/25/12 00:12		
2-Fluorobiphenyl	3882	74.4	14 - 129	7.557	7.557	0.0000	+/-0.500	
Terphenyl-d14	3882	107	14 - 129	12.429	12.428	0.0010	+/-0.500	
FLC-4-PO3-0624-022112 (1202150-08) ug/Kg dry				Lab File ID: 0215008.D		Analyzed: 02/25/12 00:41		
2-Fluorobiphenyl	3383	66.1	14 - 129	7.557	7.557	0.0000	+/-0.500	
Terphenyl-d14	3383	91.8	14 - 129	12.438	12.428	0.0100	+/-0.500	
FLC-4-PO3-0204-022112 (1202150-09) ug/Kg dry				Lab File ID: 0215009.D		Analyzed: 02/25/12 01:09		
2-Fluorobiphenyl	3908	70.7	14 - 129	7.557	7.557	0.0000	+/-0.500	
Terphenyl-d14	3908	93.9	14 - 129	12.438	12.428	0.0100	+/-0.500	
FLC-4-PO4-0624-022112 (1202150-10) ug/Kg dry				Lab File ID: 0215010.D		Analyzed: 02/25/12 01:37		
2-Fluorobiphenyl	3365	69.7	14 - 129	7.557	7.557	0.0000	+/-0.500	
Terphenyl-d14	3365	89.9	14 - 129	12.438	12.428	0.0100	+/-0.500	
FLC-4-PO4-0204-022112 (1202150-11) ug/Kg dry				Lab File ID: 0215011.D		Analyzed: 02/25/12 02:05		
2-Fluorobiphenyl	3763	71.4	14 - 129	7.557	7.557	0.0000	+/-0.500	
Terphenyl-d14	3763	94.4	14 - 129	12.438	12.428	0.0100	+/-0.500	
FLC-4-DUP02-022112 (1202150-12) ug/Kg dry				Lab File ID: 0215012D.D		Analyzed: 02/25/12 02:34		
2-Fluorobiphenyl	3870	82.7	14 - 129	7.557	7.557	0.0000	+/-0.500	
Terphenyl-d14	3870	106	14 - 129	12.428	12.428	0.0000	+/-0.500	
FLC-4-DUP01-022112 (1202150-13) ug/Kg dry				Lab File ID: 0215013.D		Analyzed: 02/25/12 03:02		
2-Fluorobiphenyl	3343	69.1	14 - 129	7.557	7.557	0.0000	+/-0.500	
Terphenyl-d14	3343	89.3	14 - 129	12.438	12.428	0.0100	+/-0.500	
FLC-4-PO6-0624-022112 (1202150-17) ug/Kg dry				Lab File ID: 0215017.D		Analyzed: 02/25/12 05:23		
2-Fluorobiphenyl	3299	68.0	14 - 129	7.557	7.557	0.0000	+/-0.500	
Terphenyl-d14	3299	96.0	14 - 129	12.438	12.428	0.0100	+/-0.500	

SURROGATE STANDARD RECOVERY AND RT SUMMARY

SW8270C

Laboratory:	Empirical Laboratories, LLC	SDG:	1202150
Client:	Tetra Tech NUS, Inc. (T010)	Project:	Navy Fuel Depot CTO JM46
Sequence:	2B06042	Instrument:	MS-BNA4
		Calibration:	2052003

Surrogate Compound	Spike Level	% Recovery	Recovery Limits	RT	CCV RT	RT Diff	RT Diff Limit	Q
FLC-4-PO6-0204-022112 (1202150-18) ug/Kg dry				Lab File ID: 0215018.D		Analyzed: 02/25/12 05:51		
2-Fluorobiphenyl	4154	70.3	14 - 129	7.557	7.557	0.0000	+/-0.500	
Terphenyl-d14	4154	97.3	14 - 129	12.438	12.428	0.0100	+/-0.500	
FLC-4-PO7-0624-022112 (1202150-19) ug/Kg dry				Lab File ID: 0215019.D		Analyzed: 02/25/12 06:19		
2-Fluorobiphenyl	3413	70.3	14 - 129	7.557	7.557	0.0000	+/-0.500	
Terphenyl-d14	3413	95.1	14 - 129	12.438	12.428	0.0100	+/-0.500	
FLC-4-PO7-0204-022112 (1202150-20) ug/Kg dry				Lab File ID: 0215020.D		Analyzed: 02/25/12 06:47		
2-Fluorobiphenyl	3560	69.2	14 - 129	7.557	7.557	0.0000	+/-0.500	
Terphenyl-d14	3560	93.6	14 - 129	12.438	12.428	0.0100	+/-0.500	
FLC-4-PO8-0624-022112 (1202150-21) ug/Kg dry				Lab File ID: 0215021.D		Analyzed: 02/25/12 07:16		
2-Fluorobiphenyl	3435	68.5	14 - 129	7.557	7.557	0.0000	+/-0.500	
Terphenyl-d14	3435	90.3	14 - 129	12.438	12.428	0.0100	+/-0.500	

SURROGATE STANDARD RECOVERY AND RT SUMMARY

SW8270C

Laboratory:	Empirical Laboratories, LLC	SDG:	1202150
Client:	Tetra Tech NUS, Inc. (T010)	Project:	Navy Fuel Depot CTO JM46
Sequence:	2C06114	Instrument:	MS-BNA4
		Calibration:	2052003

Surrogate Compound	Spike Level	% Recovery	Recovery Limits	RT	CCV RT	RT Diff	RT Diff Limit	Q
Calibration Check (2C06114-CCV1) ug/mL				Lab File ID: SEQ-CCV1.D		Analyzed: 02/28/12 17:51		
2-Fluorobiphenyl	5.000	92.2	80 - 120	7.492	7.492	0.0000	+/-0.500	
Terphenyl-d14	5.000	86.7	80 - 120	12.345	12.345	0.0000	+/-0.500	
LCS (2B23003-BS2) ug/L				Lab File ID: B23003L1.D		Analyzed: 02/28/12 18:20		
2-Fluorobiphenyl	50.00	80.8	34 - 167	7.501	7.492	0.0090	+/-0.500	
Terphenyl-d14	50.00	100	34 - 167	12.354	12.345	0.0090	+/-0.500	
LCS Dup (2B23003-BSD2) ug/L				Lab File ID: B23003L2.D		Analyzed: 02/28/12 18:48		
2-Fluorobiphenyl	50.00	91.4	34 - 167	7.501	7.492	0.0090	+/-0.500	
Terphenyl-d14	50.00	100	34 - 167	12.354	12.345	0.0090	+/-0.500	
Blank (2B23003-BLK2) ug/L				Lab File ID: B23003B1.D		Analyzed: 02/28/12 19:17		
2-Fluorobiphenyl	50.00	51.6	34 - 167	7.501	7.492	0.0090	+/-0.500	
Terphenyl-d14	50.00	76.6	34 - 167	12.354	12.345	0.0090	+/-0.500	
FLC-4-RB01-022112 (1202150-05) ug/L				Lab File ID: 0215005.D		Analyzed: 02/28/12 21:11		
2-Fluorobiphenyl	46.30	77.1	34 - 167	7.501	7.492	0.0090	+/-0.500	
Terphenyl-d14	46.30	108	34 - 167	12.354	12.345	0.0090	+/-0.500	
FLC-4-RB02-022112 (1202150-14) ug/L				Lab File ID: 0215014.D		Analyzed: 02/28/12 21:40		
2-Fluorobiphenyl	46.30	75.3	34 - 167	7.501	7.492	0.0090	+/-0.500	
Terphenyl-d14	46.30	107	34 - 167	12.354	12.345	0.0090	+/-0.500	
LCS (2B24004-BS2) ug/Kg wet				Lab File ID: B24004L1.D		Analyzed: 02/29/12 00:31		
2-Fluorobiphenyl	3333	84.6	14 - 129	7.501	7.492	0.0090	+/-0.500	
Terphenyl-d14	3333	101	14 - 129	12.354	12.345	0.0090	+/-0.500	
Blank (2B24004-BLK2) ug/Kg wet				Lab File ID: B24004B1.D		Analyzed: 02/29/12 00:59		
2-Fluorobiphenyl	3333	85.5	14 - 129	7.501	7.492	0.0090	+/-0.500	
Terphenyl-d14	3333	100	14 - 129	12.354	12.345	0.0090	+/-0.500	
FLC-4-PO8-0204-022112 (1202150-22) ug/Kg dry				Lab File ID: 0215022.D		Analyzed: 02/29/12 01:28		
2-Fluorobiphenyl	3519	78.4	14 - 129	7.501	7.492	0.0090	+/-0.500	
Terphenyl-d14	3519	95.2	14 - 129	12.354	12.345	0.0090	+/-0.500	
Matrix Spike (2B24004-MS1) ug/Kg dry				Lab File ID: 0215022M.D		Analyzed: 02/29/12 01:56		
2-Fluorobiphenyl	3474	83.8	14 - 129	7.501	7.492	0.0090	+/-0.500	
Terphenyl-d14	3474	100	14 - 129	12.354	12.345	0.0090	+/-0.500	
Matrix Spike Dup (2B24004-MSD1) ug/Kg dry				Lab File ID: 0215022S.D		Analyzed: 02/29/12 02:25		
2-Fluorobiphenyl	3474	75.8	14 - 129	7.501	7.492	0.0090	+/-0.500	
Terphenyl-d14	3474	92.5	14 - 129	12.354	12.345	0.0090	+/-0.500	

SURROGATE STANDARD RECOVERY AND RT SUMMARY

SW8270C

Laboratory:	Empirical Laboratories, LLC	SDG:	1202150
Client:	Tetra Tech NUS, Inc. (T010)	Project:	Navy Fuel Depot CTO JM46
Sequence:	2C06114	Instrument:	MS-BNA4
		Calibration:	2052003

Surrogate Compound	Spike Level	% Recovery	Recovery Limits	RT	CCV RT	RT Diff	RT Diff Limit	Q
FLC-4-PO9-0006-022112 (1202150-23) ug/Kg dry				Lab File ID: 0215023.D		Analyzed: 02/29/12 02:54		
2-Fluorobiphenyl	3499	68.9	14 - 129	7.501	7.492	0.0090	+/-0.500	
Terphenyl-d14	3499	94.4	14 - 129	12.354	12.345	0.0090	+/-0.500	
FLC-4-PO9-0624-022112 (1202150-24) ug/Kg dry				Lab File ID: 0215024.D		Analyzed: 02/29/12 03:22		
2-Fluorobiphenyl	3384	77.9	14 - 129	7.501	7.492	0.0090	+/-0.500	
Terphenyl-d14	3384	101	14 - 129	12.354	12.345	0.0090	+/-0.500	
FLC-4-PO9-0204-022112 (1202150-25) ug/Kg dry				Lab File ID: 0215025.D		Analyzed: 02/29/12 03:50		
2-Fluorobiphenyl	3318	77.4	14 - 129	7.501	7.492	0.0090	+/-0.500	
Terphenyl-d14	3318	103	14 - 129	12.363	12.345	0.0180	+/-0.500	
FLC-4-DUP03-022112 (1202150-26) ug/Kg dry				Lab File ID: 0215026.D		Analyzed: 02/29/12 04:19		
2-Fluorobiphenyl	3771	70.6	14 - 129	7.501	7.492	0.0090	+/-0.500	
Terphenyl-d14	3771	86.6	14 - 129	12.354	12.345	0.0090	+/-0.500	

SURROGATE STANDARD RECOVERY AND RT SUMMARY

SW8270C

Laboratory:	Empirical Laboratories, LLC	SDG:	1202150
Client:	Tetra Tech NUS, Inc. (T010)	Project:	Navy Fuel Depot CTO JM46
Sequence:	2C06114	Instrument:	MS-BNA4
		Calibration:	2052003

Surrogate Compound	Spike Level	% Recovery	Recovery Limits	RT	CCV RT	RT Diff	RT Diff Limit	Q
Calibration Check (2C06114-CCV1) ug/mL				Lab File ID: SEQ-CCV1.D		Analyzed: 02/28/12 17:51		
2-Fluorobiphenyl	5.000	92.2	80 - 120	7.492	7.492	0.0000	+/-0.500	
Terphenyl-d14	5.000	86.7	80 - 120	12.345	12.345	0.0000	+/-0.500	
LCS (2B23003-BS2) ug/L				Lab File ID: B23003L1.D		Analyzed: 02/28/12 18:20		
2-Fluorobiphenyl	50.00	80.8	34 - 167	7.501	7.492	0.0090	+/-0.500	
Terphenyl-d14	50.00	100	34 - 167	12.354	12.345	0.0090	+/-0.500	
LCS Dup (2B23003-BSD2) ug/L				Lab File ID: B23003L2.D		Analyzed: 02/28/12 18:48		
2-Fluorobiphenyl	50.00	91.4	34 - 167	7.501	7.492	0.0090	+/-0.500	
Terphenyl-d14	50.00	100	34 - 167	12.354	12.345	0.0090	+/-0.500	
Blank (2B23003-BLK2) ug/L				Lab File ID: B23003B1.D		Analyzed: 02/28/12 19:17		
2-Fluorobiphenyl	50.00	51.6	34 - 167	7.501	7.492	0.0090	+/-0.500	
Terphenyl-d14	50.00	76.6	34 - 167	12.354	12.345	0.0090	+/-0.500	
FLC-4-RB01-022112 (1202150-05) ug/L				Lab File ID: 0215005.D		Analyzed: 02/28/12 21:11		
2-Fluorobiphenyl	46.30	77.1	34 - 167	7.501	7.492	0.0090	+/-0.500	
Terphenyl-d14	46.30	108	34 - 167	12.354	12.345	0.0090	+/-0.500	
FLC-4-RB02-022112 (1202150-14) ug/L				Lab File ID: 0215014.D		Analyzed: 02/28/12 21:40		
2-Fluorobiphenyl	46.30	75.3	34 - 167	7.501	7.492	0.0090	+/-0.500	
Terphenyl-d14	46.30	107	34 - 167	12.354	12.345	0.0090	+/-0.500	
LCS (2B24004-BS2) ug/Kg wet				Lab File ID: B24004L1.D		Analyzed: 02/29/12 00:31		
2-Fluorobiphenyl	3333	84.6	14 - 129	7.501	7.492	0.0090	+/-0.500	
Terphenyl-d14	3333	101	14 - 129	12.354	12.345	0.0090	+/-0.500	
Blank (2B24004-BLK2) ug/Kg wet				Lab File ID: B24004B1.D		Analyzed: 02/29/12 00:59		
2-Fluorobiphenyl	3333	85.5	14 - 129	7.501	7.492	0.0090	+/-0.500	
Terphenyl-d14	3333	100	14 - 129	12.354	12.345	0.0090	+/-0.500	
FLC-4-PO8-0204-022112 (1202150-22) ug/Kg dry				Lab File ID: 0215022.D		Analyzed: 02/29/12 01:28		
2-Fluorobiphenyl	3519	78.4	14 - 129	7.501	7.492	0.0090	+/-0.500	
Terphenyl-d14	3519	95.2	14 - 129	12.354	12.345	0.0090	+/-0.500	
Matrix Spike (2B24004-MS1) ug/Kg dry				Lab File ID: 0215022M.D		Analyzed: 02/29/12 01:56		
2-Fluorobiphenyl	3474	83.8	14 - 129	7.501	7.492	0.0090	+/-0.500	
Terphenyl-d14	3474	100	14 - 129	12.354	12.345	0.0090	+/-0.500	
Matrix Spike Dup (2B24004-MSD1) ug/Kg dry				Lab File ID: 0215022S.D		Analyzed: 02/29/12 02:25		
2-Fluorobiphenyl	3474	75.8	14 - 129	7.501	7.492	0.0090	+/-0.500	
Terphenyl-d14	3474	92.5	14 - 129	12.354	12.345	0.0090	+/-0.500	

SURROGATE STANDARD RECOVERY AND RT SUMMARY

SW8270C

Laboratory:	Empirical Laboratories, LLC	SDG:	1202150
Client:	Tetra Tech NUS, Inc. (T010)	Project:	Navy Fuel Depot CTO JM46
Sequence:	2C06114	Instrument:	MS-BNA4
		Calibration:	2052003

Surrogate Compound	Spike Level	% Recovery	Recovery Limits	RT	CCV RT	RT Diff	RT Diff Limit	Q
FLC-4-PO9-0006-022112 (1202150-23) ug/Kg dry				Lab File ID: 0215023.D		Analyzed: 02/29/12 02:54		
2-Fluorobiphenyl	3499	68.9	14 - 129	7.501	7.492	0.0090	+/-0.500	
Terphenyl-d14	3499	94.4	14 - 129	12.354	12.345	0.0090	+/-0.500	
FLC-4-PO9-0624-022112 (1202150-24) ug/Kg dry				Lab File ID: 0215024.D		Analyzed: 02/29/12 03:22		
2-Fluorobiphenyl	3384	77.9	14 - 129	7.501	7.492	0.0090	+/-0.500	
Terphenyl-d14	3384	101	14 - 129	12.354	12.345	0.0090	+/-0.500	
FLC-4-PO9-0204-022112 (1202150-25) ug/Kg dry				Lab File ID: 0215025.D		Analyzed: 02/29/12 03:50		
2-Fluorobiphenyl	3318	77.4	14 - 129	7.501	7.492	0.0090	+/-0.500	
Terphenyl-d14	3318	103	14 - 129	12.363	12.345	0.0180	+/-0.500	
FLC-4-DUP03-022112 (1202150-26) ug/Kg dry				Lab File ID: 0215026.D		Analyzed: 02/29/12 04:19		
2-Fluorobiphenyl	3771	70.6	14 - 129	7.501	7.492	0.0090	+/-0.500	
Terphenyl-d14	3771	86.6	14 - 129	12.354	12.345	0.0090	+/-0.500	

LCS / LCS DUPLICATE RECOVERY

SW8270C

Laboratory:	Empirical Laboratories, LLC	SDG:	1202150
Client:	Tetra Tech NUS, Inc. (T010)	Project:	Navy Fuel Depot CTO JM46
Matrix:	Solid		
Batch:	2B22014	Laboratory ID:	2B22014-BS1
Preparation:	EXT_3546	Initial/Final:	15 g / 1 mL

ANALYTE	SPIKE ADDED (ug/Kg wet)	LCS CONCENTRATION (ug/Kg wet)	LCS % REC.	QC LIMITS REC.
Acenaphthene	66.67	65.86	98.8	28 - 110
Acenaphthylene	66.67	67.20	101	23 - 126
Anthracene	66.67	75.25	113	28 - 136
Benzo(a)anthracene	66.67	82.63	124	31 - 146
Benzo(a)pyrene	66.67	71.94	108	28 - 128
Benzo(b)fluoranthene	66.67	70.36	106	30 - 139
Benzo(g,h,i)perylene	66.67	60.71	91.1	21 - 149
Benzo(k)fluoranthene	66.67	84.97	127	42 - 129
Chrysene	66.67	84.26	126	39 - 134
Dibenz(a,h)anthracene	66.67	59.35	89.0	30 - 138
Fluoranthene	66.67	77.59	116	30 - 142
Fluorene	66.67	67.20	101	27 - 116
Indeno(1,2,3-cd)pyrene	66.67	63.35	95.0	17 - 164
1-Methylnaphthalene	66.67	58.29	87.4	30 - 111
2-Methylnaphthalene	66.67	62.98	94.5	30 - 111
Naphthalene	66.67	61.40	92.1	29 - 106
Phenanthrene	66.67	72.08	108	32 - 127
Pyrene	66.67	76.41	115	28 - 130

LCS / LCS DUPLICATE RECOVERY

SW8270C

Laboratory:	Empirical Laboratories, LLC	SDG:	1202150
Client:	Tetra Tech NUS, Inc. (T010)	Project:	Navy Fuel Depot CTO JM46
Matrix:	Water		
Batch:	2B23003	Laboratory ID:	2B23003-BS2
Preparation:	EXT_3510	Initial/Final:	1000 mL / 1 mL

ANALYTE	SPIKE ADDED (ug/L)	LCS CONCENTRATION (ug/L)	LCS % REC.	QC LIMITS REC.
Acenaphthene	1.000	0.9482	94.8	41 - 132
Acenaphthylene	1.000	0.9480	94.8	43 - 140
Anthracene	1.000	0.9274	92.7	50 - 139
Benzo(a)anthracene	1.000	1.104	110	58 - 141
Benzo(a)pyrene	1.000	1.041	104	31 - 142
Benzo(b)fluoranthene	1.000	0.9693	96.9	42 - 156
Benzo(g,h,i)perylene	1.000	1.260	126	12 - 171
Benzo(k)fluoranthene	1.000	1.037	104	49 - 165
Chrysene	1.000	1.128	113	51 - 155
Dibenz(a,h)anthracene	1.000	1.196	120	28 - 153
Fluoranthene	1.000	1.012	101	47 - 158
Fluorene	1.000	0.9435	94.4	40 - 140
Indeno(1,2,3-cd)pyrene	1.000	1.215	122	20 - 167
1-Methylnaphthalene	1.000	0.8584	85.8	35 - 131
2-Methylnaphthalene	1.000	0.8869	88.7	36 - 121
Naphthalene	1.000	0.9069	90.7	39 - 125
Phenanthrene	1.000	0.9944	99.4	46 - 144
Pyrene	1.000	0.9927	99.3	39 - 158

ANALYTE	SPIKE ADDED (ug/L)	LCSD CONCENTRATION (ug/L)	LCSD % REC. #	% RPD #	QC LIMITS RPD	QC LIMITS REC.
Acenaphthene	1.000	1.123	112	16.9	30	41 - 132
Acenaphthylene	1.000	1.134	113	17.8	30	43 - 140
Anthracene	1.000	1.040	104	11.5	30	50 - 139
Benzo(a)anthracene	1.000	0.8857	88.6	22.0	30	58 - 141
Benzo(a)pyrene	1.000	1.004	100	3.63	30	31 - 142
Benzo(b)fluoranthene	1.000	1.041	104	7.15	30	42 - 156
Benzo(g,h,i)perylene	1.000	1.174	117	7.08	30	12 - 171
Benzo(k)fluoranthene	1.000	1.156	116	10.8	30	49 - 165
Chrysene	1.000	0.8829	88.3	24.4	30	51 - 155

LCS / LCS DUPLICATE RECOVERY

SW8270C

Laboratory:	Empirical Laboratories, LLC	SDG:	1202150
Client:	Tetra Tech NUS, Inc. (T010)	Project:	Navy Fuel Depot CTO JM46
Matrix:	Water		
Batch:	2B23003	Laboratory ID:	2B23003-BSD2
Preparation:	EXT_3510	Initial/Final:	1000 mL / 1 mL

ANALYTE	SPIKE ADDED (ug/L)	LCSD CONCENTRATION (ug/L)	LCSD % REC. #	% RPD #	QC LIMITS RPD	QC LIMITS REC.
Dibenz(a,h)anthracene	1.000	1.128	113	5.83	30	28 - 153
Fluoranthene	1.000	1.053	105	3.89	30	47 - 158
Fluorene	1.000	1.116	112	16.8	30	40 - 140
Indeno(1,2,3-cd)pyrene	1.000	1.144	114	6.05	30	20 - 167
1-Methylnaphthalene	1.000	1.005	100	15.7	30	35 - 131
2-Methylnaphthalene	1.000	1.028	103	14.8	30	36 - 121
Naphthalene	1.000	1.040	104	13.7	30	39 - 125
Phenanthrene	1.000	1.111	111	11.1	30	46 - 144
Pyrene	1.000	1.006	101	1.30	30	39 - 158

LCS / LCS DUPLICATE RECOVERY

SW8270C

Laboratory:	Empirical Laboratories, LLC	SDG:	1202150
Client:	Tetra Tech NUS, Inc. (T010)	Project:	Navy Fuel Depot CTO JM46
Matrix:	Solid		
Batch:	2B24004	Laboratory ID:	2B24004-BS2
Preparation:	EXT_3546	Initial/Final:	15 g / 1 mL

ANALYTE	SPIKE ADDED (ug/Kg wet)	LCS CONCENTRATION (ug/Kg wet)	LCS % REC.	QC LIMITS REC.
Acenaphthene	66.67	67.14	101	28 - 110
Acenaphthylene	66.67	69.83	105	23 - 126
Anthracene	66.67	71.38	107	28 - 136
Benzo(a)anthracene	66.67	81.30	122	31 - 146
Benzo(a)pyrene	66.67	69.57	104	28 - 128
Benzo(b)fluoranthene	66.67	65.10	97.6	30 - 139
Benzo(g,h,i)perylene	66.67	75.18	113	21 - 149
Benzo(k)fluoranthene	66.67	71.80	108	42 - 129
Chrysene	66.67	78.05	117	39 - 134
Dibenz(a,h)anthracene	66.67	75.15	113	30 - 138
Fluoranthene	66.67	72.08	108	30 - 142
Fluorene	66.67	69.23	104	27 - 116
Indeno(1,2,3-cd)pyrene	66.67	77.75	117	17 - 164
1-Methylnaphthalene	66.67	64.97	97.5	30 - 111
2-Methylnaphthalene	66.67	65.36	98.0	30 - 111
Naphthalene	66.67	64.47	96.7	29 - 106
Phenanthrene	66.67	71.19	107	32 - 127
Pyrene	66.67	73.18	110	28 - 130

MATRIX SPIKE / MATRIX SPIKE DUPLICATE RECOVERY

SW8270C

FLC-4-SS03-0006-022112

Laboratory: Empirical Laboratories, LLC

SDG: 1202150

Client: Tetra Tech NUS, Inc. (T010)

Project: Navy Fuel Depot CTO JM46

Matrix: Solid

Batch: 2B22014

% Solids: 94.79

Source Sample Name: **1202150-01**

ANALYTE	SPIKE ADDED (ug/Kg dry)	SAMPLE CONCENTRATION (ug/Kg dry)	MS CONCENTRATION (ug/Kg dry)	MS % REC.	Q	QC LIMITS REC.
Acenaphthene	68.51	ND	84.18	123	*	28 - 110
Acenaphthylene	68.51	45.25	123.6	114		23 - 126
Anthracene	68.51	ND	98.15	143	*	28 - 136
Benzo(a)anthracene	68.51	76.42	190.8	167	*	31 - 146
Benzo(a)pyrene	68.51	122.3	203.0	118		28 - 128
Benzo(b)fluoranthene	68.51	138.9	214.3	110		30 - 139
Benzo(g,h,i)perylene	68.51	90.14	156.7	97.1		21 - 149
Benzo(k)fluoranthene	68.51	129.9	225.2	139	*	42 - 129
Chrysene	68.51	158.5	270.8	164	*	39 - 134
Dibenz(a,h)anthracene	68.51	34.85	91.91	83.3		30 - 138
Fluoranthene	68.51	114.4	189.2	109		30 - 142
Fluorene	68.51	ND	77.06	112		27 - 116
Indeno(1,2,3-cd)pyrene	68.51	68.78	138.6	102		17 - 164
1-Methylnaphthalene	68.51	ND	74.44	109		30 - 111
2-Methylnaphthalene	68.51	ND	76.28	111		30 - 111
Naphthalene	68.51	ND	81.81	119	*	29 - 106
Phenanthrene	68.51	35.58	108.1	106		32 - 127
Pyrene	68.51	192.5	261.6	101		28 - 130

MATRIX SPIKE / MATRIX SPIKE DUPLICATE RECOVERY

SW8270C

FLC-4-SS03-0006-022112

Laboratory: Empirical Laboratories, LLC

SDG: 1202150

Client: Tetra Tech NUS, Inc. (T010)

Project: Navy Fuel Depot CTO JM46

Matrix: Solid

Batch: 2B22014

% Solids: 94.79

Source Sample Name: **1202150-01**

ANALYTE	SPIKE ADDED (ug/Kg dry)	MSD CONCENTRATION (ug/Kg dry)	MSD % REC. #	% RPD	Q	QC LIMITS RPD	QC LIMITS REC.
Acenaphthene	67.63	77.91	115	7.74	*	30	28 - 110
Acenaphthylene	67.63	106.2	90.1	15.1		30	23 - 126
Anthracene	67.63	88.33	131	10.5		30	28 - 136
Benzo(a)anthracene	67.63	163.3	129	15.5		30	31 - 146
Benzo(a)pyrene	67.63	170.2	70.7	17.6		30	28 - 128
Benzo(b)fluoranthene	67.63	195.4	83.6	9.20		30	30 - 139
Benzo(g,h,i)perylene	67.63	130.5	59.6	18.2		30	21 - 149
Benzo(k)fluoranthene	67.63	181.8	76.8	21.3		30	42 - 129
Chrysene	67.63	215.0	83.5	23.0		30	39 - 134
Dibenz(a,h)anthracene	67.63	82.03	69.8	11.4		30	30 - 138
Fluoranthene	67.63	183.4	102	3.14		30	30 - 142
Fluorene	67.63	80.24	119	4.05	*	30	27 - 116
Indeno(1,2,3-cd)pyrene	67.63	109.6	60.4	23.4		30	17 - 164
1-Methylnaphthalene	67.63	66.09	97.7	11.9		30	30 - 111
2-Methylnaphthalene	67.63	68.91	102	10.2		30	30 - 111
Naphthalene	67.63	69.45	103	16.3		30	29 - 106
Phenanthrene	67.63	105.1	103	2.82		30	32 - 127
Pyrene	67.63	248.0	82.0	5.34		30	28 - 130

MATRIX SPIKE / MATRIX SPIKE DUPLICATE RECOVERY

SW8270C

FLC-4-PO8-0204-022112

Laboratory: Empirical Laboratories, LLC

SDG: 1202150

Client: Tetra Tech NUS, Inc. (T010)

Project: Navy Fuel Depot CTO JM46

Matrix: Solid

Batch: 2B24004

% Solids: 91.67

Source Sample Name: **1202150-22**

ANALYTE	SPIKE ADDED (ug/Kg dry)	SAMPLE CONCENTRATION (ug/Kg dry)	MS CONCENTRATION (ug/Kg dry)	MS % REC.	Q	QC LIMITS REC.
Acenaphthene	69.48	ND	68.79	99.0		28 - 110
Acenaphthylene	69.48	ND	71.70	103		23 - 126
Anthracene	69.48	ND	73.56	106		28 - 136
Benzo(a)anthracene	69.48	ND	87.69	126		31 - 146
Benzo(a)pyrene	69.48	ND	78.30	113		28 - 128
Benzo(b)fluoranthene	69.48	ND	67.76	97.5		30 - 139
Benzo(g,h,i)perylene	69.48	ND	84.87	122		21 - 149
Benzo(k)fluoranthene	69.48	ND	73.45	106		42 - 129
Chrysene	69.48	ND	84.55	122		39 - 134
Dibenz(a,h)anthracene	69.48	ND	76.08	109		30 - 138
Fluoranthene	69.48	1.766	83.20	117		30 - 142
Fluorene	69.48	ND	72.77	105		27 - 116
Indeno(1,2,3-cd)pyrene	69.48	ND	79.91	115		17 - 164
1-Methylnaphthalene	69.48	ND	66.99	96.4		30 - 111
2-Methylnaphthalene	69.48	ND	66.57	95.8		30 - 111
Naphthalene	69.48	ND	66.28	95.4		29 - 106
Phenanthrene	69.48	ND	76.45	110		32 - 127
Pyrene	69.48	1.954	82.50	116		28 - 130

MATRIX SPIKE / MATRIX SPIKE DUPLICATE RECOVERY

SW8270C

FLC-4-PO8-0204-022112

Laboratory: Empirical Laboratories, LLC

SDG: 1202150

Client: Tetra Tech NUS, Inc. (T010)

Project: Navy Fuel Depot CTO JM46

Matrix: Solid

Batch: 2B24004

% Solids: 91.67

Source Sample Name: **1202150-22**

ANALYTE	SPIKE ADDED (ug/Kg dry)	MSD CONCENTRATION (ug/Kg dry)	MSD % REC. #	% RPD	Q	QC LIMITS RPD	QC LIMITS REC.
Acenaphthene	69.48	63.43	91.3	8.12		30	28 - 110
Acenaphthylene	69.48	65.34	94.0	9.27		30	23 - 126
Anthracene	69.48	67.38	97.0	8.77		30	28 - 136
Benzo(a)anthracene	69.48	73.73	106	17.3		30	31 - 146
Benzo(a)pyrene	69.48	70.96	102	9.84		30	28 - 128
Benzo(b)fluoranthene	69.48	67.42	97.0	0.509		30	30 - 139
Benzo(g,h,i)perylene	69.48	61.66	88.7	31.7	*	30	21 - 149
Benzo(k)fluoranthene	69.48	72.08	104	1.88		30	42 - 129
Chrysene	69.48	72.01	104	16.0		30	39 - 134
Dibenz(a,h)anthracene	69.48	54.82	78.9	32.5	*	30	30 - 138
Fluoranthene	69.48	71.40	100	15.3		30	30 - 142
Fluorene	69.48	66.05	95.1	9.68		30	27 - 116
Indeno(1,2,3-cd)pyrene	69.48	57.62	82.9	32.4	*	30	17 - 164
1-Methylnaphthalene	69.48	60.14	86.5	10.8		30	30 - 111
2-Methylnaphthalene	69.48	59.18	85.2	11.8		30	30 - 111
Naphthalene	69.48	58.46	84.1	12.5		30	29 - 106
Phenanthrene	69.48	66.99	96.4	13.2		30	32 - 127
Pyrene	69.48	69.92	97.8	16.5		30	28 - 130

PREPARATION BATCH SUMMARY

SW8270C

Laboratory: Empirical Laboratories, LLC SDG: 1202150

Client: Tetra Tech NUS, Inc. (T010) Project: Navy Fuel Depot CTO JM46

Batch: 2B22014 Batch Matrix: Solid Preparation: EXT_3546

SAMPLE NAME	LAB SAMPLE ID	DATE PREPARED	INITIAL VOL./WEIGHT	FINAL VOL.
FLC-4-SS03-0006-022112	1202150-01	02/22/12 13:54	15.10	1.00
FLC-4-SS04-0006-022112	1202150-02	02/22/12 13:54	15.10	1.00
FLC-4-PO1-0624-022112	1202150-03	02/22/12 13:54	15.40	1.00
FLC-4-PO1-0204-022112	1202150-04	02/22/12 13:54	15.90	1.00
FLC-4-PO2-0624-022112	1202150-06	02/22/12 13:54	15.60	1.00
FLC-4-PO2-0204-022112	1202150-07	02/22/12 13:54	15.30	1.00
FLC-4-PO3-0624-022112	1202150-08	02/22/12 13:54	15.30	1.00
FLC-4-PO3-0204-022112	1202150-09	02/22/12 13:54	15.10	1.00
FLC-4-PO4-0624-022112	1202150-10	02/22/12 13:54	15.40	1.00
FLC-4-PO4-0204-022112	1202150-11	02/22/12 13:54	15.70	1.00
FLC-4-DUP02-022112	1202150-12	02/22/12 13:54	15.10	1.00
FLC-4-DUP01-022112	1202150-13	02/22/12 13:54	15.50	1.00
FLC-4-PO6-0624-022112	1202150-17	02/22/12 13:54	15.90	1.00
FLC-4-PO6-0204-022112	1202150-18	02/22/12 13:54	15.20	1.00
FLC-4-PO7-0624-022112	1202150-19	02/22/12 13:54	15.40	1.00
FLC-4-PO7-0204-022112	1202150-20	02/22/12 13:54	15.20	1.00
FLC-4-PO8-0624-022112	1202150-21	02/22/12 13:54	15.10	1.00
Blank	2B22014-BLK1	02/22/12 13:54	15.00	1.00
LCS	2B22014-BS1	02/22/12 13:54	15.00	1.00
FLC-4-SS03-0006-022112	2B22014-MS1	02/22/12 13:54	15.40	1.00
FLC-4-SS03-0006-022112	2B22014-MSD1	02/22/12 13:54	15.60	1.00

PREPARATION BATCH SUMMARY

SW8270C

Laboratory: Empirical Laboratories, LLC SDG: 1202150

Client: Tetra Tech NUS, Inc. (T010) Project: Navy Fuel Depot CTO JM46

Batch: 2B23003 Batch Matrix: Water Preparation: EXT_3510

SAMPLE NAME	LAB SAMPLE ID	DATE PREPARED	INITIAL VOL./WEIGHT	FINAL VOL.
FLC-4-RB01-022112	1202150-05	02/23/12 13:24	1,080.00	1.00
FLC-4-RB02-022112	1202150-14	02/23/12 13:24	1,080.00	1.00
Blank	2B23003-BLK2	02/23/12 13:24	1,000.00	1.00
LCS	2B23003-BS2	02/23/12 13:24	1,000.00	1.00
LCS Dup	2B23003-BSD2	02/23/12 13:24	1,000.00	1.00

PREPARATION BATCH SUMMARY

SW8270C

Laboratory: Empirical Laboratories, LLC SDG: 1202150

Client: Tetra Tech NUS, Inc. (T010) Project: Navy Fuel Depot CTO JM46

Batch: 2B24004 Batch Matrix: Solid Preparation: EXT_3546

SAMPLE NAME	LAB SAMPLE ID	DATE PREPARED	INITIAL VOL./WEIGHT	FINAL VOL.
FLC-4-PO8-0204-022112	1202150-22	02/24/12 10:05	15.50	1.00
FLC-4-PO9-0006-022112	1202150-23	02/24/12 10:05	15.80	1.00
FLC-4-PO9-0624-022112	1202150-24	02/24/12 10:05	15.40	1.00
FLC-4-PO9-0204-022112	1202150-25	02/24/12 10:05	15.70	1.00
FLC-4-DUP03-022112	1202150-26	02/24/12 10:05	15.60	1.00
Blank	2B24004-BLK2	02/24/12 10:05	15.00	1.00
LCS	2B24004-BS2	02/24/12 10:05	15.00	1.00
FLC-4-PO8-0204-022112	2B24004-MS1	02/24/12 10:05	15.70	1.00
FLC-4-PO8-0204-022112	2B24004-MSD1	02/24/12 10:05	15.70	1.00

MASS SPECTROMETER INSTRUMENT PERFORMANCE CHECK

SW8270C

Laboratory:	Empirical Laboratories, LLC	SDG:	1202150
Client:	Tetra Tech NUS, Inc. (T010)	Project:	Navy Fuel Depot CTO JM46
Lab File ID:	SEQ-TUN1.D	Injection Date:	02/20/12
Instrument ID:	MS-BNA4	Injection Time:	16:09
Sequence:	2B05206	Lab Sample ID:	2B05206-TUN1

m/z	ION ABUNDANCE CRITERIA	% RELATIVE ABUNDANCE	
51	30 - 60% of 198	48.9	PASS
68	Less than 2% of 69	1.48	PASS
69	Less than 200% of 198	44.6	PASS
70	Less than 2% of 69	0.493	PASS
127	40 - 60% of 198	48.2	PASS
197	Less than 1% of 198	0.601	PASS
198	Base peak, 100% relative abundance	100	PASS
199	5 - 9% of 198	6.86	PASS
275	10 - 30% of 198	20.9	PASS
365	1 - 200% of 198	2.09	PASS
441	0.001 - 100% of 443	81	PASS
442	40 - 200% of 198	48.8	PASS
443	17 - 23% of 442	19.9	PASS

MASS SPECTROMETER INSTRUMENT PERFORMANCE CHECK

SW8270C

Laboratory:	Empirical Laboratories, LLC	SDG:	1202150
Client:	Tetra Tech NUS, Inc. (T010)	Project:	Navy Fuel Depot CTO JM46
Lab File ID:	SEQ-TUN1.D	Injection Date:	02/21/12
Instrument ID:	MS-BNA4	Injection Time:	10:40
Sequence:	2B05206	Lab Sample ID:	2B05206-TUN2

m/z	ION ABUNDANCE CRITERIA	% RELATIVE ABUNDANCE	
51	30 - 60% of 198	53.7	PASS
68	Less than 2% of 69	1.55	PASS
69	Less than 200% of 198	47.9	PASS
70	Less than 2% of 69	0.469	PASS
127	40 - 60% of 198	50.2	PASS
197	Less than 1% of 198	0.745	PASS
198	Base peak, 100% relative abundance	100	PASS
199	5 - 9% of 198	6.96	PASS
275	10 - 30% of 198	20.4	PASS
365	1 - 200% of 198	2	PASS
441	0.001 - 100% of 443	81.3	PASS
442	40 - 200% of 198	43.8	PASS
443	17 - 23% of 442	19.9	PASS

MASS SPECTROMETER INSTRUMENT PERFORMANCE CHECK

SW8270C

Laboratory:	Empirical Laboratories, LLC	SDG:	1202150
Client:	Tetra Tech NUS, Inc. (T010)	Project:	Navy Fuel Depot CTO JM46
Lab File ID:	SEQ-TUN1.D	Injection Date:	02/24/12
Instrument ID:	MS-BNA4	Injection Time:	10:06
Sequence:	2B05912	Lab Sample ID:	2B05912-TUN1

m/z	ION ABUNDANCE CRITERIA	% RELATIVE ABUNDANCE	
51	30 - 60% of 198	47.8	PASS
68	Less than 2% of 69	1.6	PASS
69	Less than 200% of 198	44.8	PASS
70	Less than 2% of 69	0.475	PASS
127	40 - 60% of 198	47.9	PASS
197	Less than 1% of 198	0.813	PASS
198	Base peak, 100% relative abundance	100	PASS
199	5 - 9% of 198	6.91	PASS
275	10 - 30% of 198	21.3	PASS
365	1 - 200% of 198	2.01	PASS
441	0.001 - 100% of 443	82.9	PASS
442	40 - 200% of 198	47.3	PASS
443	17 - 23% of 442	20	PASS

MASS SPECTROMETER INSTRUMENT PERFORMANCE CHECK

SW8270C

Laboratory:	Empirical Laboratories, LLC	SDG:	1202150
Client:	Tetra Tech NUS, Inc. (T010)	Project:	Navy Fuel Depot CTO JM46
Lab File ID:	SEQ-TUN2.D	Injection Date:	02/24/12
Instrument ID:	MS-BNA4	Injection Time:	22:24
Sequence:	2B06042	Lab Sample ID:	2B06042-TUN1

m/z	ION ABUNDANCE CRITERIA	% RELATIVE ABUNDANCE	
51	30 - 60% of 198	44.1	PASS
68	Less than 2% of 69	1.57	PASS
69	Less than 200% of 198	41.7	PASS
70	Less than 2% of 69	0.521	PASS
127	40 - 60% of 198	45.7	PASS
197	Less than 1% of 198	0.831	PASS
198	Base peak, 100% relative abundance	100	PASS
199	5 - 9% of 198	6.94	PASS
275	10 - 30% of 198	21.5	PASS
365	1 - 200% of 198	2.13	PASS
441	0.001 - 100% of 443	79.4	PASS
442	40 - 200% of 198	54.1	PASS
443	17 - 23% of 442	20	PASS

MASS SPECTROMETER INSTRUMENT PERFORMANCE CHECK

SW8270C

Laboratory:	Empirical Laboratories, LLC	SDG:	1202150
Client:	Tetra Tech NUS, Inc. (T010)	Project:	Navy Fuel Depot CTO JM46
Lab File ID:	SEQ-TUN1.D	Injection Date:	02/28/12
Instrument ID:	MS-BNA4	Injection Time:	17:00
Sequence:	2C06114	Lab Sample ID:	2C06114-TUN1

m/z	ION ABUNDANCE CRITERIA	% RELATIVE ABUNDANCE	
51	30 - 60% of 198	39.9	PASS
68	Less than 2% of 69	1.6	PASS
69	Less than 200% of 198	37.5	PASS
70	Less than 2% of 69	0.445	PASS
127	40 - 60% of 198	42.5	PASS
197	Less than 1% of 198	0.788	PASS
198	Base peak, 100% relative abundance	100	PASS
199	5 - 9% of 198	6.7	PASS
275	10 - 30% of 198	25.4	PASS
365	1 - 200% of 198	3.12	PASS
441	0.001 - 100% of 443	82.8	PASS
442	40 - 200% of 198	102	PASS
443	17 - 23% of 442	19.3	PASS

ANALYSIS SEQUENCE SUMMARY

SW8270C

Laboratory:	Empirical Laboratories, LLC	SDG:	1202150
Client:	Tetra Tech NUS, Inc. (T010)	Project:	Navy Fuel Depot CTO JM46
Sequence:	2B05206	Instrument:	MS-BNA4
Calibration:	2052003		

Sample Name	Lab Sample ID	Lab File ID	Analysis Date/Time
MS Tune	2B05206-TUN1	SEQ-TUN1.D	02/20/12 16:09
Cal Standard	2B05206-CAL1	SEQ-CAL1.D	02/20/12 16:29
Cal Standard	2B05206-CAL2	SEQ-CAL2.D	02/20/12 16:55
Cal Standard	2B05206-CAL3	SEQ-CAL3.D	02/20/12 17:21
Cal Standard	2B05206-CAL4	SEQ-CAL4.D	02/20/12 17:47
Cal Standard	2B05206-CAL5	SEQ-CAL5.D	02/20/12 18:14
Cal Standard	2B05206-CAL6	SEQ-CAL6.D	02/20/12 18:40
Cal Standard	2B05206-CAL7	SEQ-CAL7.D	02/20/12 19:15
Cal Standard	2B05206-CAL8	SEQ-CAL8.D	02/20/12 19:40
Cal Standard	2B05206-CAL9	SEQ-CAL9.D	02/20/12 20:06
Cal Standard	2B05206-CALA	SEQ-CALA.D	02/20/12 20:32
MS Tune	2B05206-TUN2	SEQ-TUN1.D	02/21/12 10:40
Initial Cal Check	2B05206-ICV1	SEQ-ICV1.D	02/21/12 11:00

ANALYSIS SEQUENCE SUMMARY

SW8270C

Laboratory:	Empirical Laboratories, LLC	SDG:	1202150
Client:	Tetra Tech NUS, Inc. (T010)	Project:	Navy Fuel Depot CTO JM46
Sequence:	2B05912	Instrument:	MS-BNA4
Calibration:	2052003		

Sample Name	Lab Sample ID	Lab File ID	Analysis Date/Time
MS Tune	2B05912-TUN1	SEQ-TUN1.D	02/24/12 10:06
Calibration Check	2B05912-CCV1	SEQ-CCV1.D	02/24/12 10:28
LCS	2B22014-BS1	B22014L1.D	02/24/12 19:05
Blank	2B22014-BLK1	B22014B1.D	02/24/12 19:33
FLC-4-SS03-0006-022112	1202150-01	0215001D.D	02/24/12 20:01
FLC-4-SS03-0006-022112	2B22014-MS1	0215001M.D	02/24/12 20:29
FLC-4-SS03-0006-022112	2B22014-MSD1	0215001S.D	02/24/12 20:57
FLC-4-SS04-0006-022112	1202150-02	0215002D.D	02/24/12 21:25
FLC-4-PO1-0624-022112	1202150-03	0215003.D	02/24/12 21:52

ANALYSIS SEQUENCE SUMMARY

SW8270C

Laboratory:	Empirical Laboratories, LLC	SDG:	1202150
Client:	Tetra Tech NUS, Inc. (T010)	Project:	Navy Fuel Depot CTO JM46
Sequence:	2B06042	Instrument:	MS-BNA4
Calibration:	2052003		

Sample Name	Lab Sample ID	Lab File ID	Analysis Date/Time
MS Tune	2B06042-TUN1	SEQ-TUN2.D	02/24/12 22:24
Calibration Check	2B06042-CCV1	SEQ-CCV2.D	02/24/12 22:46
FLC-4-PO1-0204-022112	1202150-04	0215004D.D	02/24/12 23:15
FLC-4-PO2-0624-022112	1202150-06	0215006.D	02/24/12 23:43
FLC-4-PO2-0204-022112	1202150-07	0215007D.D	02/25/12 00:12
FLC-4-PO3-0624-022112	1202150-08	0215008.D	02/25/12 00:41
FLC-4-PO3-0204-022112	1202150-09	0215009.D	02/25/12 01:09
FLC-4-PO4-0624-022112	1202150-10	0215010.D	02/25/12 01:37
FLC-4-PO4-0204-022112	1202150-11	0215011.D	02/25/12 02:05
FLC-4-DUP02-022112	1202150-12	0215012D.D	02/25/12 02:34
FLC-4-DUP01-022112	1202150-13	0215013.D	02/25/12 03:02
FLC-4-PO6-0624-022112	1202150-17	0215017.D	02/25/12 05:23
FLC-4-PO6-0204-022112	1202150-18	0215018.D	02/25/12 05:51
FLC-4-PO7-0624-022112	1202150-19	0215019.D	02/25/12 06:19
FLC-4-PO7-0204-022112	1202150-20	0215020.D	02/25/12 06:47
FLC-4-PO8-0624-022112	1202150-21	0215021.D	02/25/12 07:16

ANALYSIS SEQUENCE SUMMARY

SW8270C

Laboratory:	Empirical Laboratories, LLC	SDG:	1202150
Client:	Tetra Tech NUS, Inc. (T010)	Project:	Navy Fuel Depot CTO JM46
Sequence:	2C06114	Instrument:	MS-BNA4
Calibration:	2052003		

Sample Name	Lab Sample ID	Lab File ID	Analysis Date/Time
MS Tune	2C06114-TUN1	SEQ-TUN1.D	02/28/12 17:00
Calibration Check	2C06114-CCV1	SEQ-CCV1.D	02/28/12 17:51
LCS	2B23003-BS2	B23003L1.D	02/28/12 18:20
LCS Dup	2B23003-BSD2	B23003L2.D	02/28/12 18:48
Blank	2B23003-BLK2	B23003B1.D	02/28/12 19:17
FLC-4-RB01-022112	1202150-05	0215005.D	02/28/12 21:11
FLC-4-RB02-022112	1202150-14	0215014.D	02/28/12 21:40
LCS	2B24004-BS2	B24004L1.D	02/29/12 00:31
Blank	2B24004-BLK2	B24004B1.D	02/29/12 00:59
FLC-4-PO8-0204-022112	1202150-22	0215022.D	02/29/12 01:28
FLC-4-PO8-0204-022112	2B24004-MS1	0215022M.D	02/29/12 01:56
FLC-4-PO8-0204-022112	2B24004-MSD1	0215022S.D	02/29/12 02:25
FLC-4-PO9-0006-022112	1202150-23	0215023.D	02/29/12 02:54
FLC-4-PO9-0624-022112	1202150-24	0215024.D	02/29/12 03:22
FLC-4-PO9-0204-022112	1202150-25	0215025.D	02/29/12 03:50
FLC-4-DUP03-022112	1202150-26	0215026.D	02/29/12 04:19

INTERNAL STANDARD AREA AND RT SUMMARY
SW8270C

Laboratory:	Empirical Laboratories, LLC	SDG:	1202150
Client:	Tetra Tech NUS, Inc. (T010)	Project:	Navy Fuel Depot CTO JM46
Sequence:	2B05912	Instrument:	MS-BNA4
		Calibration:	2052003

Internal Standard	Response	RT	Reference Response	Reference RT	Area %	Area % Limits	RT Diff	RT Diff Limit	Q
Calibration Check (2B05912-CCV1)			Lab File ID: SEQ-CCV1.D			Analyzed: 02/24/12 10:28			
Phenanthrene-d10	92859	10.197	108502	10.234	86	50 - 200	-0.0370	+/-0.50	
Perylene-d12	32707	17.123	49968	15.812	65	50 - 200	1.3110	+/-0.50	
LCS (2B22014-BS1)			Lab File ID: B22014L1.D			Analyzed: 02/24/12 19:05			
Phenanthrene-d10	107181	10.197	92859	10.197	115	50 - 200	0.0000	+/-0.50	
Perylene-d12	43319	17.132	32707	17.123	132	50 - 200	0.0090	+/-0.50	
Blank (2B22014-BLK1)			Lab File ID: B22014B1.D			Analyzed: 02/24/12 19:33			
Phenanthrene-d10	97797	10.197	92859	10.197	105	50 - 200	0.0000	+/-0.50	
Perylene-d12	31294	17.132	32707	17.123	96	50 - 200	0.0090	+/-0.50	
FLC-4-SS03-0006-022112 (1202150-01)			Lab File ID: 0215001D.D			Analyzed: 02/24/12 20:01			
Phenanthrene-d10	81843	10.197	92859	10.197	88	50 - 200	0.0000	+/-0.50	
Perylene-d12	37221	17.123	32707	17.123	114	50 - 200	0.0000	+/-0.50	
Matrix Spike (2B22014-MS1)			Lab File ID: 0215001M.D			Analyzed: 02/24/12 20:29			
Phenanthrene-d10	82156	10.197	92859	10.197	88	50 - 200	0.0000	+/-0.50	
Perylene-d12	42254	17.123	32707	17.123	129	50 - 200	0.0000	+/-0.50	
Matrix Spike Dup (2B22014-MSD1)			Lab File ID: 0215001S.D			Analyzed: 02/24/12 20:57			
Phenanthrene-d10	90246	10.197	92859	10.197	97	50 - 200	0.0000	+/-0.50	
Perylene-d12	44723	17.123	32707	17.123	137	50 - 200	0.0000	+/-0.50	
FLC-4-SS04-0006-022112 (1202150-02)			Lab File ID: 0215002D.D			Analyzed: 02/24/12 21:25			
Phenanthrene-d10	87804	10.197	92859	10.197	95	50 - 200	0.0000	+/-0.50	
Perylene-d12	50033	17.123	32707	17.123	153	50 - 200	0.0000	+/-0.50	
FLC-4-PO1-0624-022112 (1202150-03)			Lab File ID: 0215003.D			Analyzed: 02/24/12 21:52			
Phenanthrene-d10	100152	10.197	92859	10.197	108	50 - 200	0.0000	+/-0.50	
Perylene-d12	40682	17.133	32707	17.123	124	50 - 200	0.0100	+/-0.50	

INTERNAL STANDARD AREA AND RT SUMMARY
SW8270C

Laboratory: Empirical Laboratories, LLC
SDG: 1202150
Client: Tetra Tech NUS, Inc. (T010)
Project: Navy Fuel Depot CTO JM46
Sequence: 2B06042
Instrument: MS-BNA4
Calibration: 2052003

Internal Standard	Response	RT	Reference Response	Reference RT	Area %	Area % Limits	RT Diff	RT Diff Limit	Q
Calibration Check (2B06042-CCV1)			Lab File ID: SEQ-CCV2.D			Analyzed: 02/24/12 22:46			
Phenanthrene-d10	100420	10.197	108502	10.234	93	50 - 200	-0.0370	+/-0.50	
Perylene-d12	48704	17.123	49968	15.812	97	50 - 200	1.3110	+/-0.50	
FLC-4-PO1-0204-022112 (1202150-04)			Lab File ID: 0215004D.D			Analyzed: 02/24/12 23:15			
Phenanthrene-d10	75931	10.197	100420	10.197	76	50 - 200	0.0000	+/-0.50	
Perylene-d12	43064	17.132	48704	17.123	88	50 - 200	0.0090	+/-0.50	
FLC-4-PO2-0624-022112 (1202150-06)			Lab File ID: 0215006.D			Analyzed: 02/24/12 23:43			
Phenanthrene-d10	97642	10.197	100420	10.197	97	50 - 200	0.0000	+/-0.50	
Perylene-d12	44694	17.132	48704	17.123	92	50 - 200	0.0090	+/-0.50	
FLC-4-PO2-0204-022112 (1202150-07)			Lab File ID: 0215007D.D			Analyzed: 02/25/12 00:12			
Phenanthrene-d10	94094	10.197	100420	10.197	94	50 - 200	0.0000	+/-0.50	
Perylene-d12	54890	17.132	48704	17.123	113	50 - 200	0.0090	+/-0.50	
FLC-4-PO3-0624-022112 (1202150-08)			Lab File ID: 0215008.D			Analyzed: 02/25/12 00:41			
Phenanthrene-d10	98134	10.197	100420	10.197	98	50 - 200	0.0000	+/-0.50	
Perylene-d12	41865	17.133	48704	17.123	86	50 - 200	0.0100	+/-0.50	
FLC-4-PO3-0204-022112 (1202150-09)			Lab File ID: 0215009.D			Analyzed: 02/25/12 01:09			
Phenanthrene-d10	106768	10.197	100420	10.197	106	50 - 200	0.0000	+/-0.50	
Perylene-d12	43496	17.132	48704	17.123	89	50 - 200	0.0090	+/-0.50	
FLC-4-PO4-0624-022112 (1202150-10)			Lab File ID: 0215010.D			Analyzed: 02/25/12 01:37			
Phenanthrene-d10	104438	10.197	100420	10.197	104	50 - 200	0.0000	+/-0.50	
Perylene-d12	45983	17.132	48704	17.123	94	50 - 200	0.0090	+/-0.50	
FLC-4-PO4-0204-022112 (1202150-11)			Lab File ID: 0215011.D			Analyzed: 02/25/12 02:05			
Phenanthrene-d10	102313	10.197	100420	10.197	102	50 - 200	0.0000	+/-0.50	
Perylene-d12	42320	17.132	48704	17.123	87	50 - 200	0.0090	+/-0.50	
FLC-4-DUP02-022112 (1202150-12)			Lab File ID: 0215012D.D			Analyzed: 02/25/12 02:34			
Phenanthrene-d10	92832	10.197	100420	10.197	92	50 - 200	0.0000	+/-0.50	
Perylene-d12	39899	17.132	48704	17.123	82	50 - 200	0.0090	+/-0.50	
FLC-4-DUP01-022112 (1202150-13)			Lab File ID: 0215013.D			Analyzed: 02/25/12 03:02			
Phenanthrene-d10	107547	10.197	100420	10.197	107	50 - 200	0.0000	+/-0.50	
Perylene-d12	45943	17.132	48704	17.123	94	50 - 200	0.0090	+/-0.50	
FLC-4-PO6-0624-022112 (1202150-17)			Lab File ID: 0215017.D			Analyzed: 02/25/12 05:23			
Phenanthrene-d10	98235	10.197	100420	10.197	98	50 - 200	0.0000	+/-0.50	
Perylene-d12	38773	17.132	48704	17.123	80	50 - 200	0.0090	+/-0.50	
FLC-4-PO6-0204-022112 (1202150-18)			Lab File ID: 0215018.D			Analyzed: 02/25/12 05:51			
Phenanthrene-d10	104763	10.197	100420	10.197	104	50 - 200	0.0000	+/-0.50	
Perylene-d12	39798	17.132	48704	17.123	82	50 - 200	0.0090	+/-0.50	

INTERNAL STANDARD AREA AND RT SUMMARY
SW8270C

Laboratory:	Empirical Laboratories, LLC	SDG:	1202150
Client:	Tetra Tech NUS, Inc. (T010)	Project:	Navy Fuel Depot CTO JM46
Sequence:	2B06042	Instrument:	MS-BNA4
		Calibration:	2052003

Internal Standard	Response	RT	Reference Response	Reference RT	Area %	Area % Limits	RT Diff	RT Diff Limit	Q
FLC-4-PO7-0624-022112 (1202150-19)			Lab File ID: 0215019.D			Analyzed: 02/25/12 06:19			
Phenanthrene-d10	102736	10.197	100420	10.197	102	50 - 200	0.0000	+/-0.50	
Perylene-d12	39789	17.132	48704	17.123	82	50 - 200	0.0090	+/-0.50	
FLC-4-PO7-0204-022112 (1202150-20)			Lab File ID: 0215020.D			Analyzed: 02/25/12 06:47			
Phenanthrene-d10	108760	10.197	100420	10.197	108	50 - 200	0.0000	+/-0.50	
Perylene-d12	42557	17.132	48704	17.123	87	50 - 200	0.0090	+/-0.50	
FLC-4-PO8-0624-022112 (1202150-21)			Lab File ID: 0215021.D			Analyzed: 02/25/12 07:16			
Phenanthrene-d10	109725	10.197	100420	10.197	109	50 - 200	0.0000	+/-0.50	
Perylene-d12	39177	17.132	48704	17.123	80	50 - 200	0.0090	+/-0.50	

INTERNAL STANDARD AREA AND RT SUMMARY
SW8270C

Laboratory: Empirical Laboratories, LLC
SDG: 1202150
Client: Tetra Tech NUS, Inc. (T010)
Project: Navy Fuel Depot CTO JM46
Sequence: 2C06114
Instrument: MS-BNA4
Calibration: 2052003

Internal Standard	Response	RT	Reference Response	Reference RT	Area %	Area % Limits	RT Diff	RT Diff Limit	Q
Calibration Check (2C06114-CCV1)			Lab File ID: SEQ-CCV1.D			Analyzed: 02/28/12 17:51			
Phenanthrene-d10	92434	10.132	108502	10.234	85	50 - 200	-0.1020	+/-0.50	
Perylene-d12	37584	17.012	49968	15.812	75	50 - 200	1.2000	+/-0.50	
LCS (2B23003-BS2)			Lab File ID: B23003L1.D			Analyzed: 02/28/12 18:20			
Phenanthrene-d10	91000	10.132	92434	10.132	98	50 - 200	0.0000	+/-0.50	
Perylene-d12	47679	17.011	37584	17.012	127	50 - 200	-0.0010	+/-0.50	
LCS Dup (2B23003-BSD2)			Lab File ID: B23003L2.D			Analyzed: 02/28/12 18:48			
Phenanthrene-d10	91506	10.132	92434	10.132	99	50 - 200	0.0000	+/-0.50	
Perylene-d12	29198	17.011	37584	17.012	78	50 - 200	-0.0010	+/-0.50	
Blank (2B23003-BLK2)			Lab File ID: B23003B1.D			Analyzed: 02/28/12 19:17			
Phenanthrene-d10	109183	10.132	92434	10.132	118	50 - 200	0.0000	+/-0.50	
Perylene-d12	45014	17.012	37584	17.012	120	50 - 200	0.0000	+/-0.50	
FLC-4-RB01-022112 (1202150-05)			Lab File ID: 0215005.D			Analyzed: 02/28/12 21:11			
Phenanthrene-d10	106697	10.132	92434	10.132	115	50 - 200	0.0000	+/-0.50	
Perylene-d12	50153	17.012	37584	17.012	133	50 - 200	0.0000	+/-0.50	
FLC-4-RB02-022112 (1202150-14)			Lab File ID: 0215014.D			Analyzed: 02/28/12 21:40			
Phenanthrene-d10	106501	10.132	92434	10.132	115	50 - 200	0.0000	+/-0.50	
Perylene-d12	51435	17.011	37584	17.012	137	50 - 200	-0.0010	+/-0.50	
LCS (2B24004-BS2)			Lab File ID: B24004L1.D			Analyzed: 02/29/12 00:31			
Phenanthrene-d10	128821	10.132	108502	10.234	119	50 - 200	-0.1020	+/-0.50	
Perylene-d12	67098	17.011	49968	15.812	134	50 - 200	1.1990	+/-0.50	
Blank (2B24004-BLK2)			Lab File ID: B24004B1.D			Analyzed: 02/29/12 00:59			
Phenanthrene-d10	108232	10.132	108502	10.234	100	50 - 200	-0.1020	+/-0.50	
Perylene-d12	35374	17.012	49968	15.812	71	50 - 200	1.2000	+/-0.50	
FLC-4-PO8-0204-022112 (1202150-22)			Lab File ID: 0215022.D			Analyzed: 02/29/12 01:28			
Phenanthrene-d10	109631	10.132	108502	10.234	101	50 - 200	-0.1020	+/-0.50	
Perylene-d12	48209	17.012	49968	15.812	96	50 - 200	1.2000	+/-0.50	
Matrix Spike (2B24004-MS1)			Lab File ID: 0215022M.D			Analyzed: 02/29/12 01:56			
Phenanthrene-d10	126465	10.132	108502	10.234	117	50 - 200	-0.1020	+/-0.50	
Perylene-d12	71962	17.012	49968	15.812	144	50 - 200	1.2000	+/-0.50	
Matrix Spike Dup (2B24004-MSD1)			Lab File ID: 0215022S.D			Analyzed: 02/29/12 02:25			
Phenanthrene-d10	115325	10.132	108502	10.234	106	50 - 200	-0.1020	+/-0.50	
Perylene-d12	49083	17.011	49968	15.812	98	50 - 200	1.1990	+/-0.50	
FLC-4-PO9-0006-022112 (1202150-23)			Lab File ID: 0215023.D			Analyzed: 02/29/12 02:54			
Phenanthrene-d10	103214	10.132	108502	10.234	95	50 - 200	-0.1020	+/-0.50	
Perylene-d12	47774	17.021	49968	15.812	96	50 - 200	1.2090	+/-0.50	

INTERNAL STANDARD AREA AND RT SUMMARY
SW8270C

Laboratory:	Empirical Laboratories, LLC	SDG:	1202150
Client:	Tetra Tech NUS, Inc. (T010)	Project:	Navy Fuel Depot CTO JM46
Sequence:	2C06114	Instrument:	MS-BNA4
		Calibration:	2052003

Internal Standard	Response	RT	Reference Response	Reference RT	Area %	Area % Limits	RT Diff	RT Diff Limit	Q
FLC-4-PO9-0624-022112 (1202150-24)			Lab File ID: 0215024.D			Analyzed: 02/29/12 03:22			
Phenanthrene-d10	97594	10.132	108502	10.234	90	50 - 200	-0.1020	+/-0.50	
Perylene-d12	49715	17.012	49968	15.812	99	50 - 200	1.2000	+/-0.50	
FLC-4-PO9-0204-022112 (1202150-25)			Lab File ID: 0215025.D			Analyzed: 02/29/12 03:50			
Phenanthrene-d10	119260	10.132	108502	10.234	110	50 - 200	-0.1020	+/-0.50	
Perylene-d12	64586	17.021	49968	15.812	129	50 - 200	1.2090	+/-0.50	
FLC-4-DUP03-022112 (1202150-26)			Lab File ID: 0215026.D			Analyzed: 02/29/12 04:19			
Phenanthrene-d10	101964	10.132	108502	10.234	94	50 - 200	-0.1020	+/-0.50	
Perylene-d12	45075	17.012	49968	15.812	90	50 - 200	1.2000	+/-0.50	

INTERNAL STANDARD AREA AND RT SUMMARY
SW8270C

Laboratory: Empirical Laboratories, LLC
SDG: 1202150
Client: Tetra Tech NUS, Inc. (T010)
Project: Navy Fuel Depot CTO JM46
Sequence: 2C06114
Instrument: MS-BNA4
Calibration: 2052003

Internal Standard	Response	RT	Reference Response	Reference RT	Area %	Area % Limits	RT Diff	RT Diff Limit	Q
Calibration Check (2C06114-CCV1)			Lab File ID: SEQ-CCV1.D			Analyzed: 02/28/12 17:51			
Phenanthrene-d10	92434	10.132	108502	10.234	85	50 - 200	-0.1020	+/-0.50	
Perylene-d12	37584	17.012	49968	15.812	75	50 - 200	1.2000	+/-0.50	
LCS (2B23003-BS2)			Lab File ID: B23003L1.D			Analyzed: 02/28/12 18:20			
Phenanthrene-d10	91000	10.132	92434	10.132	98	50 - 200	0.0000	+/-0.50	
Perylene-d12	47679	17.011	37584	17.012	127	50 - 200	-0.0010	+/-0.50	
LCS Dup (2B23003-BSD2)			Lab File ID: B23003L2.D			Analyzed: 02/28/12 18:48			
Phenanthrene-d10	91506	10.132	92434	10.132	99	50 - 200	0.0000	+/-0.50	
Perylene-d12	29198	17.011	37584	17.012	78	50 - 200	-0.0010	+/-0.50	
Blank (2B23003-BLK2)			Lab File ID: B23003B1.D			Analyzed: 02/28/12 19:17			
Phenanthrene-d10	109183	10.132	92434	10.132	118	50 - 200	0.0000	+/-0.50	
Perylene-d12	45014	17.012	37584	17.012	120	50 - 200	0.0000	+/-0.50	
FLC-4-RB01-022112 (1202150-05)			Lab File ID: 0215005.D			Analyzed: 02/28/12 21:11			
Phenanthrene-d10	106697	10.132	92434	10.132	115	50 - 200	0.0000	+/-0.50	
Perylene-d12	50153	17.012	37584	17.012	133	50 - 200	0.0000	+/-0.50	
FLC-4-RB02-022112 (1202150-14)			Lab File ID: 0215014.D			Analyzed: 02/28/12 21:40			
Phenanthrene-d10	106501	10.132	92434	10.132	115	50 - 200	0.0000	+/-0.50	
Perylene-d12	51435	17.011	37584	17.012	137	50 - 200	-0.0010	+/-0.50	
LCS (2B24004-BS2)			Lab File ID: B24004L1.D			Analyzed: 02/29/12 00:31			
Phenanthrene-d10	128821	10.132	108502	10.234	119	50 - 200	-0.1020	+/-0.50	
Perylene-d12	67098	17.011	49968	15.812	134	50 - 200	1.1990	+/-0.50	
Blank (2B24004-BLK2)			Lab File ID: B24004B1.D			Analyzed: 02/29/12 00:59			
Phenanthrene-d10	108232	10.132	108502	10.234	100	50 - 200	-0.1020	+/-0.50	
Perylene-d12	35374	17.012	49968	15.812	71	50 - 200	1.2000	+/-0.50	
FLC-4-PO8-0204-022112 (1202150-22)			Lab File ID: 0215022.D			Analyzed: 02/29/12 01:28			
Phenanthrene-d10	109631	10.132	108502	10.234	101	50 - 200	-0.1020	+/-0.50	
Perylene-d12	48209	17.012	49968	15.812	96	50 - 200	1.2000	+/-0.50	
Matrix Spike (2B24004-MS1)			Lab File ID: 0215022M.D			Analyzed: 02/29/12 01:56			
Phenanthrene-d10	126465	10.132	108502	10.234	117	50 - 200	-0.1020	+/-0.50	
Perylene-d12	71962	17.012	49968	15.812	144	50 - 200	1.2000	+/-0.50	
Matrix Spike Dup (2B24004-MSD1)			Lab File ID: 0215022S.D			Analyzed: 02/29/12 02:25			
Phenanthrene-d10	115325	10.132	108502	10.234	106	50 - 200	-0.1020	+/-0.50	
Perylene-d12	49083	17.011	49968	15.812	98	50 - 200	1.1990	+/-0.50	
FLC-4-PO9-0006-022112 (1202150-23)			Lab File ID: 0215023.D			Analyzed: 02/29/12 02:54			
Phenanthrene-d10	103214	10.132	108502	10.234	95	50 - 200	-0.1020	+/-0.50	
Perylene-d12	47774	17.021	49968	15.812	96	50 - 200	1.2090	+/-0.50	

INTERNAL STANDARD AREA AND RT SUMMARY
SW8270C

Laboratory:	Empirical Laboratories, LLC	SDG:	1202150
Client:	Tetra Tech NUS, Inc. (T010)	Project:	Navy Fuel Depot CTO JM46
Sequence:	2C06114	Instrument:	MS-BNA4
		Calibration:	2052003

Internal Standard	Response	RT	Reference Response	Reference RT	Area %	Area % Limits	RT Diff	RT Diff Limit	Q
FLC-4-PO9-0624-022112 (1202150-24)			Lab File ID: 0215024.D			Analyzed: 02/29/12 03:22			
Phenanthrene-d10	97594	10.132	108502	10.234	90	50 - 200	-0.1020	+/-0.50	
Perylene-d12	49715	17.012	49968	15.812	99	50 - 200	1.2000	+/-0.50	
FLC-4-PO9-0204-022112 (1202150-25)			Lab File ID: 0215025.D			Analyzed: 02/29/12 03:50			
Phenanthrene-d10	119260	10.132	108502	10.234	110	50 - 200	-0.1020	+/-0.50	
Perylene-d12	64586	17.021	49968	15.812	129	50 - 200	1.2090	+/-0.50	
FLC-4-DUP03-022112 (1202150-26)			Lab File ID: 0215026.D			Analyzed: 02/29/12 04:19			
Phenanthrene-d10	101964	10.132	108502	10.234	94	50 - 200	-0.1020	+/-0.50	
Perylene-d12	45075	17.012	49968	15.812	90	50 - 200	1.2000	+/-0.50	

INITIAL CALIBRATION DATA

SW8270C

Laboratory:	Empirical Laboratories, LLC	SDG:	1202150
Client:	Tetra Tech NUS, Inc. (T010)	Project:	Navy Fuel Depot CTO JM46
Calibration:	2052003	Instrument:	MS-BNA4
Matrix:	Water	Calibration Dates:	2/20/12 16:29 2/20/12 20:32

Compound	Level 01		Level 02		Level 03		Level 04		Level 05		Level 06	
	ug/mL	RF	ug/mL	RF	ug/mL	RF	ug/mL	RF	ug/mL	RF	ug/mL	RF
Acenaphthene	0.1	0.6392776	0.2	0.7411528	0.5	0.7578454	1	0.6535691	2	0.6454443	5	0.6047446
Acenaphthylene	0.1	0.8961091	0.2	1.013402	0.5	1.090161	1	0.9546111	2	0.9629419	5	0.9234834
Anthracene	0.1	0.8978181	0.2	1.0038	0.5	1.043974	1	0.9248719	2	0.9261872	5	0.9321469
Benzo(a)anthracene	0.1	0.5298038	0.2	0.5757409	0.5	0.624065	1	0.6802265	2	0.6580362	5	0.731393
Benzo(a)pyrene	0.1	0.8755416	0.2	0.9297244	0.5	1.040402	1	0.8677679	2	0.8876949	5	0.9368476
Benzo(b)fluoranthene	0.1	1.191992	0.2	1.327198	0.5	1.432163	1	1.140533	2	1.211961	5	1.195805
Benzo(g,h,i)perylene	0.1	0.5910653	0.2	0.6159883	0.5	0.6943823	1	0.697476	2	0.6230032	5	0.6767011
Benzo(k)fluoranthene	0.1	1.249066	0.2	1.141381	0.5	1.44477	1	1.136477	2	1.2292	5	1.317643
Chrysene	0.1	0.5266706	0.2	0.5408907	0.5	0.6233347	1	0.6658288	2	0.6103219	5	0.6647232
Dibenz(a,h)anthracene	0.1	0.4613776	0.2	0.4858364	0.5	0.5816829	1	0.5942669	2	0.5385876	5	0.587568
Fluoranthene	0.1	0.9168075	0.2	0.9673748	0.5	1.068141	1	0.9893197	2	0.9873215	5	1.001801
Fluorene	0.1	0.6548489	0.2	0.7363266	0.5	0.8116231	1	0.7225432	2	0.6990524	5	0.6703323
2-Fluorobiphenyl	0.1	0.7885342	0.2	0.9583829	0.5	0.987297	1	0.8317347	2	0.8191781	5	0.7699711
2-Fluorophenol	0.2		0.4		1		2		4		10	
Indeno(1,2,3-cd)pyrene	0.1	0.5976393	0.2	0.6617647	0.5	0.7386078	1	0.7148561	2	0.672361	5	0.7354907
1-Methylnaphthalene	0.1	0.6127875	0.2	0.8091769	0.5	0.7773425	1	0.6243114	2	0.6350434	5	0.5978876
2-Methylnaphthalene	0.1	0.7009931	0.2	0.7911421	0.5	0.8124198	1	0.671116	2	0.6494506	5	0.6275129
Naphthalene	0.1	1.058848	0.2	1.25903	0.5	1.229894	1	1.033909	2	1.018967	5	0.956128
Nitrobenzene-d5	0.1		0.2		0.5		1		2		5	
Phenanthrene	0.1	0.9791876	0.2	1.085795	0.5	1.157792	1	0.9934608	2	0.9575874	5	0.9306004
Phenol-d6	0.2		0.4		1		2		4		10	
Pyrene	0.1	0.9160479	0.2	1.008779	0.5	1.112601	1	1.035932	2	1.042244	5	1.037717
Terphenyl-d14	0.1	0.6268396	0.2	0.6412757	0.5	0.7016111	1	0.6865923	2	0.6857719	5	0.6931485
2,4,6-Tribromophenol	0.2		0.4		1		2		4		10	
1,4-Dichlorobenzene-d4	1		1		1		1		1		1	
Naphthalene-d8	1		1		1		1		1		1	
Acenaphthene-d10	1		1		1		1		1		1	
Chrysene-d12	1		1		1		1		1		1	
Acenaphthene	0.1	0.6392776	0.2	0.7411528	0.5	0.7578454	1	0.6535691	2	0.6454443	5	0.6047446
Acenaphthylene	0.1	0.8961091	0.2	1.013402	0.5	1.090161	1	0.9546111	2	0.9629419	5	0.9234834
Anthracene	0.1	0.8978181	0.2	1.0038	0.5	1.043974	1	0.9248719	2	0.9261872	5	0.9321469

INITIAL CALIBRATION DATA

SW8270C

Laboratory: Empirical Laboratories, LLC

SDG: 1202150

Client: Tetra Tech NUS, Inc. (T010)

Project: Navy Fuel Depot CTO JM46

Calibration: 2052003

Instrument: MS-BNA4

Matrix: Water

Calibration Dates: 2/20/12 16:29 2/20/12 20:32

Compound	Level 01		Level 02		Level 03		Level 04		Level 05		Level 06	
	ug/mL	RF	ug/mL	RF	ug/mL	RF	ug/mL	RF	ug/mL	RF	ug/mL	RF
Benzo(a)anthracene	0.1	0.5298038	0.2	0.5757409	0.5	0.624065	1	0.6802265	2	0.6580362	5	0.731393
Benzo(a)pyrene	0.1	0.8755416	0.2	0.9297244	0.5	1.040402	1	0.8677679	2	0.8876949	5	0.9368476
Benzo(b)fluoranthene	0.1	1.191992	0.2	1.327198	0.5	1.432163	1	1.140533	2	1.211961	5	1.195805
Benzo(g,h,i)perylene	0.1	0.5910653	0.2	0.6159883	0.5	0.6943823	1	0.697476	2	0.6230032	5	0.6767011
Benzo(k)fluoranthene	0.1	1.249066	0.2	1.141381	0.5	1.44477	1	1.136477	2	1.2292	5	1.317643
Chrysene	0.1	0.5266706	0.2	0.5408907	0.5	0.6233347	1	0.6658288	2	0.6103219	5	0.6647232
Dibenz(a,h)anthracene	0.1	0.4613776	0.2	0.4858364	0.5	0.5816829	1	0.5942669	2	0.5385876	5	0.587568
Fluoranthene	0.1	0.9168075	0.2	0.9673748	0.5	1.068141	1	0.9893197	2	0.9873215	5	1.001801
Fluorene	0.1	0.6548489	0.2	0.7363266	0.5	0.8116231	1	0.7225432	2	0.6990524	5	0.6703323
2-Fluorobiphenyl	0.1	0.7885342	0.2	0.9583829	0.5	0.987297	1	0.8317347	2	0.8191781	5	0.7699711
2-Fluorophenol	0.2		0.4		1		2		4		10	
Indeno(1,2,3-cd)pyrene	0.1	0.5976393	0.2	0.6617647	0.5	0.7386078	1	0.7148561	2	0.672361	5	0.7354907
1-Methylnaphthalene	0.1	0.6127875	0.2	0.8091769	0.5	0.7773425	1	0.6243114	2	0.6350434	5	0.5978876
2-Methylnaphthalene	0.1	0.7009931	0.2	0.7911421	0.5	0.8124198	1	0.671116	2	0.6494506	5	0.6275129
Naphthalene	0.1	1.058848	0.2	1.25903	0.5	1.229894	1	1.033909	2	1.018967	5	0.956128
Nitrobenzene-d5	0.1		0.2		0.5		1		2		5	
Phenanthrene	0.1	0.9791876	0.2	1.085795	0.5	1.157792	1	0.9934608	2	0.9575874	5	0.9306004
Phenol-d6	0.2		0.4		1		2		4		10	
Pyrene	0.1	0.9160479	0.2	1.008779	0.5	1.112601	1	1.035932	2	1.042244	5	1.037717
Terphenyl-d14	0.1	0.6268396	0.2	0.6412757	0.5	0.7016111	1	0.6865923	2	0.6857719	5	0.6931485
2,4,6-Tribromophenol	0.2		0.4		1		2		4		10	
1,4-Dichlorobenzene-d4	1		1		1		1		1		1	
Naphthalene-d8	1		1		1		1		1		1	
Acenaphthene-d10	1		1		1		1		1		1	
Chrysene-d12	1		1		1		1		1		1	

INITIAL CALIBRATION DATA (Continued)

SW8270C

Laboratory:	Empirical Laboratories, LLC	SDG:	1202150
Client:	Tetra Tech NUS, Inc. (T010)	Project:	Navy Fuel Depot CTO JM46
Calibration:	2052003	Instrument:	MS-BNA4
Matrix:	Water	Calibration Dates:	2/20/12 16:29 2/20/12 20:32

Compound	Level 07		Level 08		Level 09		Level 10		Level 11		Level 12	
	ug/mL	RF	ug/mL	RF	ug/mL	RF	ug/mL	RF	ug/mL	RF	ug/mL	RF
Acenaphthene	10	0.6083634	20	0.6038565	40	0.5694394	50	0.5485331				
Acenaphthylene	10	0.961982	20	0.9310575	40	0.8980039	50	0.8478109				
Anthracene	10	0.9524212	20	0.9717811	40	0.9604942	50	0.9079197				
Benzo(a)anthracene	10	0.8187821	20	~~0.8513176~~	40	~~0.8662399~~	50	~~0.8476988~~				
Benzo(a)pyrene	10	0.9757802	20	0.998501	40	0.982316	50	0.9046811				
Benzo(b)fluoranthene	10	1.262932	20	1.258014	40	1.252447	50	1.265863				
Benzo(g,h,i)perylene	10	0.7368138	20	0.7172465	40	0.7112465	50	0.6640179				
Benzo(k)fluoranthene	10	1.211247	20	1.298028	40	1.281433	50	1.045414				
Chrysene	10	0.7286625	20	0.758958	40	0.7447944	50	0.7308755				
Dibenz(a,h)anthracene	10	0.6731418	20	0.6832455	40	0.6882494	50	0.652679				
Fluoranthene	10	1.041066	20	1.079224	40	1.068921	50	1.02662				
Fluorene	10	0.678012	20	0.6775692	40	0.6488473	50	0.6231238				
2-Fluorobiphenyl	10	0.7608153	20	0.7393269	40	0.707418	50	0.6767589				
2-Fluorophenol	20		40		80		100					
Indeno(1,2,3-cd)pyrene	10	0.8449882	20	0.8482648	40	0.857365	50	0.797556				
1-Methylnaphthalene	10	0.597247	20	0.5632197	40	0.5246852	50	~~0.5017647~~				
2-Methylnaphthalene	10	0.6109112	20	0.5864692	40	0.5826171	50	0.5536214				
Naphthalene	10	0.9521728	20	0.9140083	40	0.8557966	50	0.8298586				
Nitrobenzene-d5	10		20		40		50					
Phenanthrene	10	0.9627022	20	0.9705315	40	0.9415848	50	0.8963639				
Phenol-d6	20		40		80		100					
Pyrene	10	1.093091	20	1.104341	40	1.089407	50	1.011773				
Terphenyl-d14	10	0.7274264	20	0.740566	40	0.7262492	50	0.6815108				
2,4,6-Tribromophenol	20		40		80		100					
1,4-Dichlorobenzene-d4	1		1		1		1					
Naphthalene-d8	1		1		1		1					
Acenaphthene-d10	1		1		1		1					
Chrysene-d12	1		1		1		1					
Acenaphthene	10	0.6083634	20	0.6038565	40	0.5694394	50	0.5485331				
Acenaphthylene	10	0.961982	20	0.9310575	40	0.8980039	50	0.8478109				
Anthracene	10	0.9524212	20	0.9717811	40	0.9604942	50	0.9079197				

INITIAL CALIBRATION DATA (Continued)

SW8270C

Laboratory: Empirical Laboratories, LLC
SDG: 1202150
Client: Tetra Tech NUS, Inc. (T010)
Project: Navy Fuel Depot CTO JM46
Calibration: 2052003
Instrument: MS-BNA4
Matrix: Water
Calibration Dates: 2/20/12 16:29 2/20/12 20:32

Compound	Level 07		Level 08		Level 09		Level 10		Level 11		Level 12	
	ug/mL	RF	ug/mL	RF	ug/mL	RF	ug/mL	RF	ug/mL	RF	ug/mL	RF
Benzo(a)anthracene	10	0.8187821	20	~~0.8513176~~	40	~~0.8662399~~	50	~~0.8476988~~				
Benzo(a)pyrene	10	0.9757802	20	0.998501	40	0.982316	50	0.9046811				
Benzo(b)fluoranthene	10	1.262932	20	1.258014	40	1.252447	50	1.265863				
Benzo(g,h,i)perylene	10	0.7368138	20	0.7172465	40	0.7112465	50	0.6640179				
Benzo(k)fluoranthene	10	1.211247	20	1.298028	40	1.281433	50	1.045414				
Chrysene	10	0.7286625	20	0.758958	40	0.7447944	50	0.7308755				
Dibenz(a,h)anthracene	10	0.6731418	20	0.6832455	40	0.6882494	50	0.652679				
Fluoranthene	10	1.041066	20	1.079224	40	1.068921	50	1.02662				
Fluorene	10	0.678012	20	0.6775692	40	0.6488473	50	0.6231238				
2-Fluorobiphenyl	10	0.7608153	20	0.7393269	40	0.707418	50	0.6767589				
2-Fluorophenol	20		40		80		100					
Indeno(1,2,3-cd)pyrene	10	0.8449882	20	0.8482648	40	0.857365	50	0.797556				
1-Methylnaphthalene	10	0.597247	20	0.5632197	40	0.5246852	50	~~0.5017647~~				
2-Methylnaphthalene	10	0.6109112	20	0.5864692	40	0.5826171	50	0.5536214				
Naphthalene	10	0.9521728	20	0.9140083	40	0.8557966	50	0.8298586				
Nitrobenzene-d5	10		20		40		50					
Phenanthrene	10	0.9627022	20	0.9705315	40	0.9415848	50	0.8963639				
Phenol-d6	20		40		80		100					
Pyrene	10	1.093091	20	1.104341	40	1.089407	50	1.011773				
Terphenyl-d14	10	0.7274264	20	0.740566	40	0.7262492	50	0.6815108				
2,4,6-Tribromophenol	20		40		80		100					
1,4-Dichlorobenzene-d4	1		1		1		1					
Naphthalene-d8	1		1		1		1					
Acenaphthene-d10	1		1		1		1					
Chrysene-d12	1		1		1		1					

INITIAL CALIBRATION DATA (Continued)

SW8270C

Laboratory:	Empirical Laboratories, LLC	SDG:	1202150
Client:	Tetra Tech NUS, Inc. (T010)	Project:	Navy Fuel Depot CTO JM46
Calibration:	2052003	Instrument:	MS-BNA4
Matrix:	Water	Calibration Dates:	2/20/12 16:29 2/20/12 20:32

Compound	Mean RF	RF RSD	Mean RT	RT RSD	Linear r	Quad COD	LIMIT	Q
Acenaphthene	0.6372226	10.61163	8.4698	4.592816E-02			CCC (30)	
Acenaphthylene	0.9479563	7.125931	8.2423	8.978156E-02			15	
Anthracene	0.9521414	4.733432	10.3227	7.797832E-02			15	
Benzo(a)anthracene	0.6597211	14.65219	13.57329	2.684816E-02			15	
Benzo(a)pyrene	0.9399257	6.147112	15.7238	7.117836E-02			CCC (30)	
Benzo(b)fluoranthene	1.253891	6.468843	15.2145	6.364651E-02			15	
Benzo(g,h,i)perylene	0.6727941	7.197845	18.0249	9.184987E-02			15	
Benzo(k)fluoranthene	1.235466	9.036197	15.2526	7.509595E-02			15	
Chrysene	0.659506	12.64082	13.6426	0.059814			15	
Dibenz(a,h)anthracene	0.5946635	13.62723	17.5497	8.001396E-02			15	
Fluoranthene	1.01466	5.10834	11.7452	5.655567E-02			CCC (30)	
Fluorene	0.6922279	7.781904	9.0856	6.811259E-02			15	
2-Fluorobiphenyl	0.8039417	12.53471	7.5933	9.231272E-02			15	
2-Fluorophenol							15	
Indeno(1,2,3-cd)pyrene	0.7468894	11.88967	17.5395	6.471506E-02			15	
1-Methylnaphthalene	0.6379668	14.79295	7.263	6.316878E-02			15	
2-Methylnaphthalene	0.6586253	13.2463	7.1315	5.670667E-02			15	
Naphthalene	1.010861	14.18663	6.3067	0.1077996			15	
Nitrobenzene-d5							15	
Phenanthrene	0.9875606	7.859132	10.2669	6.797236E-02			15	
Phenol-d6							15	
Pyrene	1.045193	5.665945	12.0249	6.689472E-02			15	
Terphenyl-d14	0.6910991	5.254697	12.207	3.107587E-02			15	
2,4,6-Tribromophenol							15	
1,4-Dichlorobenzene-d4							15	
Naphthalene-d8							15	
Acenaphthene-d10							15	
Chrysene-d12							15	
Acenaphthene	0.6372226	10.61163	8.4698	4.592816E-02			CCC (30)	
Acenaphthylene	0.9479563	7.125931	8.2423	8.978156E-02			15	
Anthracene	0.9521414	4.733432	10.3227	7.797832E-02			15	
Benzo(a)anthracene	0.6597211	14.65219	13.57329	2.684816E-02			15	

INITIAL CALIBRATION DATA (Continued)

SW8270C

Laboratory:	Empirical Laboratories, LLC	SDG:	1202150
Client:	Tetra Tech NUS, Inc. (T010)	Project:	Navy Fuel Depot CTO JM46
Calibration:	2052003	Instrument:	MS-BNA4
Matrix:	Water	Calibration Dates:	2/20/12 16:29 2/20/12 20:32

Compound	Mean RF	RF RSD	Mean RT	RT RSD	Linear r	Quad COD	LIMIT	Q
Benzo(a)pyrene	0.9399257	6.147112	15.7238	7.117836E-02			CCC (30)	
Benzo(b)fluoranthene	1.253891	6.468843	15.2145	6.364651E-02			15	
Benzo(g,h,i)perylene	0.6727941	7.197845	18.0249	9.184987E-02			15	
Benzo(k)fluoranthene	1.235466	9.036197	15.2526	7.509595E-02			15	
Chrysene	0.659506	12.64082	13.6426	0.059814			15	
Dibenz(a,h)anthracene	0.5946635	13.62723	17.5497	8.001396E-02			15	
Fluoranthene	1.01466	5.10834	11.7452	5.655567E-02			CCC (30)	
Fluorene	0.6922279	7.781904	9.0856	6.811259E-02			15	
2-Fluorobiphenyl	0.8039417	12.53471	7.5933	9.231272E-02			15	
2-Fluorophenol							15	
Indeno(1,2,3-cd)pyrene	0.7468894	11.88967	17.5395	6.471506E-02			15	
1-Methylnaphthalene	0.6379668	14.79295	7.263	6.316878E-02			15	
2-Methylnaphthalene	0.6586253	13.2463	7.1315	5.670667E-02			15	
Naphthalene	1.010861	14.18663	6.3067	0.1077996			15	
Nitrobenzene-d5							15	
Phenanthrene	0.9875606	7.859132	10.2669	6.797236E-02			15	
Phenol-d6							15	
Pyrene	1.045193	5.665945	12.0249	6.689472E-02			15	
Terphenyl-d14	0.6910991	5.254697	12.207	3.107587E-02			15	
2,4,6-Tribromophenol							15	
1,4-Dichlorobenzene-d4							15	
Naphthalene-d8							15	
Acenaphthene-d10							15	
Chrysene-d12							15	

INITIAL CALIBRATION CHECK

SW8270C

Laboratory:	Empirical Laboratories, LLC	SDG:	1202150
Client:	Tetra Tech NUS, Inc. (T010)	Project:	Navy Fuel Depot CTO JM46
Instrument ID:	MS-BNA4	Calibration:	2052003
Lab File ID:	SEQ-ICV1.D	Calibration Date:	02/20/12 00:00
Sequence:	2B05206	Injection Date:	02/21/12
Lab Sample ID:	2B05206-ICV1	Injection Time:	11:00

		CONC. (ug/mL)		RESPONSE FACTOR			% DIFF / DRIFT	
COMPOUND	TYPE	STD	ICV	ICAL	ICV	MIN (#)	ICV	LIMIT (#)
Acenaphthene	A	5.000	4.587	0.6372226	0.5845273		-8.3	20
Acenaphthylene	A	5.000	4.777	0.9479563	0.9056422		-4.5	20
Anthracene	A	5.000	4.918	0.9521414	0.9365716		-1.6	20
Benzo(a)anthracene	A	5.000	5.711	0.6597211	0.7534749		14.2	20
Benzo(a)pyrene	A	5.000	4.825	0.9399257	0.9069719		-3.5	20
Benzo(b)fluoranthene	A	5.000	4.579	1.253891	1.14827		-8.4	20
Benzo(g,h,i)perylene	A	5.000	5.292	0.6727941	0.712114		5.8	20
Benzo(k)fluoranthene	A	5.000	5.216	1.235466	1.288811		4.3	20
Chrysene	A	5.000	5.478	0.659506	0.722533		9.6	20
Dibenz(a,h)anthracene	A	5.000	5.083	0.5946635	0.6045357		1.7	20
Fluoranthene	A	5.000	5.027	1.01466	1.020149		0.5	20
Fluorene	A	5.000	4.792	0.6922279	0.6634676		-4.2	20
Indeno(1,2,3-cd)pyrene	A	5.000	5.174	0.7468894	0.7728697		3.5	20
1-Methylnaphthalene	A	5.000	4.637	0.6379668	0.5916036		-7.3	20
2-Methylnaphthalene	A	5.000	4.740	0.6586253	0.6244001		-5.2	20
Naphthalene	A	5.000	5.308	1.010861	1.073104		6.2	20
Phenanthrene	A	5.000	4.907	0.9875606	0.9691347		-1.9	20
Pyrene	A	5.000	4.938	1.045193	1.032139		-1.2	20
2-Fluorobiphenyl	A	5.000	4.380	0.8039417	0.7042882		-12.4	20
Terphenyl-d14	A	5.000	5.235	0.6910991	0.7235895		4.7	20

Column to be used to flag Response Factor and %Diff/Drift values with an asterisk

* Values outside of QC limits

CONTINUING CALIBRATION CHECK

SW8270C

Laboratory:	Empirical Laboratories, LLC	SDG:	1202150
Client:	Tetra Tech NUS, Inc. (T010)	Project:	Navy Fuel Depot CTO JM46
Instrument ID:	MS-BNA4	Calibration:	2052003
Lab File ID:	SEQ-CCV1.D	Calibration Date:	02/20/12 00:00
Sequence:	2B05912	Injection Date:	02/24/12
Lab Sample ID:	2B05912-CCV1	Injection Time:	10:28

		CONC. (ug/mL)		RESPONSE FACTOR			% DIFF / DRIFT	
COMPOUND	TYPE	STD	CCV	ICAL	CCV	MIN (#)	CCV	LIMIT (#)
Acenaphthene	A	5.000	5.058	0.6372226	0.6445751		1.2	20
Acenaphthylene	A	5.000	5.140	0.9479563	0.9745636		2.8	20
Anthracene	A	5.000	5.113	0.9521414	0.9736934		2.3	20
Benzo(a)anthracene	A	5.000	5.074	0.6597211	0.6695528		1.5	20
Benzo(a)pyrene	A	5.000	5.232	0.9399257	0.9835998		4.6	20
Benzo(b)fluoranthene	A	5.000	5.558	1.253891	1.393763		11.2	20
Benzo(g,h,i)perylene	A	5.000	4.559	0.6727941	0.6134467		-8.8	20
Benzo(k)fluoranthene	A	5.000	5.469	1.235466	1.351301		9.4	20
Chrysene	A	5.000	4.910	0.659506	0.6476357		-1.8	20
Dibenz(a,h)anthracene	A	5.000	4.437	0.5946635	0.5277341		-11.3	20
Fluoranthene	A	5.000	5.207	1.01466	1.056649		4.1	20
Fluorene	A	5.000	5.016	0.6922279	0.6945218		0.3	20
Indeno(1,2,3-cd)pyrene	A	5.000	4.388	0.7468894	0.6554499		-12.2	20
1-Methylnaphthalene	A	5.000	4.942	0.6379668	0.6305754		-1.2	20
2-Methylnaphthalene	A	5.000	4.834	0.6586253	0.6367267		-3.3	20
Naphthalene	A	5.000	5.004	1.010861	1.011732		0.09	20
Phenanthrene	A	5.000	4.987	0.9875606	0.9849492		-0.3	20
Pyrene	A	5.000	5.122	1.045193	1.070757		2.4	20
2-Fluorobiphenyl	A	5.000	4.388	0.8039417	0.7055708		-12.2	20
Terphenyl-d14	A	5.000	4.472	0.6910991	0.6181199		-10.6	20

Column to be used to flag Response Factor and %Diff/Drift values with an asterisk

* Values outside of QC limits

CONTINUING CALIBRATION CHECK

SW8270C

Laboratory:	Empirical Laboratories, LLC	SDG:	1202150
Client:	Tetra Tech NUS, Inc. (T010)	Project:	Navy Fuel Depot CTO JM46
Instrument ID:	MS-BNA4	Calibration:	2052003
Lab File ID:	SEQ-CCV2.D	Calibration Date:	02/20/12 00:00
Sequence:	2B06042	Injection Date:	02/24/12
Lab Sample ID:	2B06042-CCV1	Injection Time:	22:46

		CONC. (ug/mL)		RESPONSE FACTOR			% DIFF / DRIFT	
COMPOUND	TYPE	STD	CCV	ICAL	CCV	MIN (#)	CCV	LIMIT (#)
Acenaphthene	A	5.000	4.988	0.6372226	0.6357339		-0.2	20
Acenaphthylene	A	5.000	5.036	0.9479563	0.9546983		0.7	20
Anthracene	A	5.000	5.107	0.9521414	0.9724398		2.1	20
Benzo(a)anthracene	A	5.000	6.127	0.6597211	0.8084644		22.5	20 *
Benzo(a)pyrene	A	5.000	5.166	0.9399257	0.9711153		3.3	20
Benzo(b)fluoranthene	A	5.000	4.970	1.253891	1.246353		-0.6	20
Benzo(g,h,i)perylene	A	5.000	4.010	0.6727941	0.5395573		-19.8	20
Benzo(k)fluoranthene	A	5.000	5.788	1.235466	1.430178		15.8	20
Chrysene	A	5.000	5.853	0.659506	0.7720653		17.1	20
Dibenz(a,h)anthracene	A	5.000	4.165	0.5946635	0.4953474		-16.7	20
Fluoranthene	A	5.000	5.452	1.01466	1.106489		9.1	20
Fluorene	A	5.000	5.110	0.6922279	0.7075085		2.2	20
Indeno(1,2,3-cd)pyrene	A	5.000	4.389	0.7468894	0.6556381		-12.2	20
1-Methylnaphthalene	A	5.000	4.495	0.6379668	0.5735232		-10.1	20
2-Methylnaphthalene	A	5.000	4.591	0.6586253	0.6047441		-8.2	20
Naphthalene	A	5.000	4.703	1.010861	0.9507767		-5.9	20
Phenanthrene	A	5.000	5.020	0.9875606	0.991422		0.4	20
Pyrene	A	5.000	5.476	1.045193	1.14477		9.5	20
2-Fluorobiphenyl	A	5.000	4.180	0.8039417	0.6721052		-16.4	20
Terphenyl-d14	A	5.000	4.764	0.6910991	0.6585063		-4.7	20

Column to be used to flag Response Factor and %Diff/Drift values with an asterisk

* Values outside of QC limits

CONTINUING CALIBRATION CHECK

SW8270C

Laboratory:	Empirical Laboratories, LLC	SDG:	1202150
Client:	Tetra Tech NUS, Inc. (T010)	Project:	Navy Fuel Depot CTO JM46
Instrument ID:	MS-BNA4	Calibration:	2052003
Lab File ID:	SEQ-CCV1.D	Calibration Date:	02/20/12 00:00
Sequence:	2C06114	Injection Date:	02/28/12
Lab Sample ID:	2C06114-CCV1	Injection Time:	17:51

		CONC. (ug/mL)		RESPONSE FACTOR			% DIFF / DRIFT	
COMPOUND	TYPE	STD	CCV	ICAL	CCV	MIN (#)	CCV	LIMIT (#)
Acenaphthene	A	5.000	5.455	0.6372226	0.6951987		9.1	20
Acenaphthylene	A	5.000	5.584	0.9479563	1.058697		11.7	20
Anthracene	A	5.000	5.070	0.9521414	0.9654932		1.4	20
Benzo(a)anthracene	A	5.000	4.802	0.6597211	0.6335526		-4.0	20
Benzo(a)pyrene	A	5.000	5.176	0.9399257	0.9730683		3.5	20
Benzo(b)fluoranthene	A	5.000	4.696	1.253891	1.177767		-6.1	20
Benzo(g,h,i)perylene	A	5.000	5.572	0.6727941	0.7497765		11.4	20
Benzo(k)fluoranthene	A	5.000	5.150	1.235466	1.27252		3.0	20
Chrysene	A	5.000	4.556	0.659506	0.6009823		-8.9	20
Dibenz(a,h)anthracene	A	5.000	5.460	0.5946635	0.649404		9.2	20
Fluoranthene	A	5.000	4.922	1.01466	0.9989441		-1.5	20
Fluorene	A	5.000	5.339	0.6922279	0.7391631		6.8	20
Indeno(1,2,3-cd)pyrene	A	5.000	5.507	0.7468894	0.8226586		10.1	20
1-Methylnaphthalene	A	5.000	5.116	0.6379668	0.6527187		2.3	20
2-Methylnaphthalene	A	5.000	5.044	0.6586253	0.6644979		0.9	20
Naphthalene	A	5.000	5.193	1.010861	1.049906		3.9	20
Phenanthrene	A	5.000	5.088	0.9875606	1.004964		1.8	20
Pyrene	A	5.000	4.902	1.045193	1.024684		-2.0	20
2-Fluorobiphenyl	A	5.000	4.608	0.8039417	0.7409222		-7.8	20
Terphenyl-d14	A	5.000	4.336	0.6910991	0.599286		-13.3	20

Column to be used to flag Response Factor and %Diff/Drift values with an asterisk

* Values outside of QC limits

ANALYSIS DATA SHEET

Blank

Laboratory: Empirical Laboratories, LLC SDG: 1202150

Client: Tetra Tech NUS, Inc. (T010) Project: Navy Fuel Depot CTO JM46

Matrix: Laboratory ID: 2B22014-BLK1 File ID: B22014B1.D

Sampled: Prepared: Analyzed: 02/24/12 19:33

Solids: Preparation: EXT_3546 Dilution:

Batch: 2B22014 Sequence: 2B05912 Calibration: 2052003 Instrument: MS-BNA4

CAS NO.	COMPOUND	ONC. (ug/Kg we	DL	LOD	LOQ	Q
83-32-9	Acenaphthene		1.67	3.33	6.67	U
208-96-8	Acenaphthylene		1.67	3.33	6.67	U
120-12-7	Anthracene		1.67	3.33	6.67	U
56-55-3	Benzo(a)anthracene		1.67	3.33	6.67	U
50-32-8	Benzo(a)pyrene		1.67	3.33	6.67	U
205-99-2	Benzo(b)fluoranthene		1.67	3.33	6.67	U
191-24-2	Benzo(g,h,i)perylene		1.67	3.33	6.67	U
207-08-9	Benzo(k)fluoranthene		1.67	3.33	6.67	U
218-01-9	Chrysene		1.67	3.33	6.67	U
53-70-3	Dibenz(a,h)anthracene		1.67	3.33	6.67	U
206-44-0	Fluoranthene		1.67	3.33	6.67	U
86-73-7	Fluorene		1.67	3.33	6.67	U
193-39-5	Indeno(1,2,3-cd)pyrene		1.67	3.33	6.67	U
90-12-0	1-Methylnaphthalene		1.67	3.33	6.67	U
91-57-6	2-Methylnaphthalene		1.67	3.33	6.67	U
91-20-3	Naphthalene		1.67	3.33	6.67	U
85-01-8	Phenanthrene		1.67	3.33	6.67	U
129-00-0	Pyrene		1.67	3.33	6.67	U

SYSTEM MONITORING COMPOUND	ADDED (ug/Kg wet)	CONC (ug/Kg wet)	% REC	QC LIMITS	Q
2-Fluorobiphenyl	3333	2588	77.6	14 - 129	
Terphenyl-d14	3333	3471	104	14 - 129	

ANALYSIS DATA SHEET

LCS

Laboratory: Empirical Laboratories, LLC SDG: 1202150

Client: Tetra Tech NUS, Inc. (T010) Project: Navy Fuel Depot CTO JM46

Matrix: Laboratory ID: 2B22014-BS1 File ID: B22014L1.D

Sampled: Prepared: Analyzed: 02/24/12 19:05

Solids: Preparation: EXT_3546 Dilution:

Batch: 2B22014 Sequence: 2B05912 Calibration: 2052003 Instrument: MS-BNA4

CAS NO.	COMPOUND	ONC. (ug/Kg we	DL	LOD	LOQ	Q
83-32-9	Acenaphthene	65.86	1.67	3.33	6.67	
208-96-8	Acenaphthylene	67.20	1.67	3.33	6.67	
120-12-7	Anthracene	75.25	1.67	3.33	6.67	
56-55-3	Benzo(a)anthracene	82.63	1.67	3.33	6.67	
50-32-8	Benzo(a)pyrene	71.94	1.67	3.33	6.67	
205-99-2	Benzo(b)fluoranthene	70.36	1.67	3.33	6.67	
191-24-2	Benzo(g,h,i)perylene	60.71	1.67	3.33	6.67	
207-08-9	Benzo(k)fluoranthene	84.97	1.67	3.33	6.67	
218-01-9	Chrysene	84.26	1.67	3.33	6.67	
53-70-3	Dibenz(a,h)anthracene	59.35	1.67	3.33	6.67	
206-44-0	Fluoranthene	77.59	1.67	3.33	6.67	
86-73-7	Fluorene	67.20	1.67	3.33	6.67	
193-39-5	Indeno(1,2,3-cd)pyrene	63.35	1.67	3.33	6.67	
90-12-0	1-Methylnaphthalene	58.29	1.67	3.33	6.67	
91-57-6	2-Methylnaphthalene	62.98	1.67	3.33	6.67	
91-20-3	Naphthalene	61.40	1.67	3.33	6.67	
85-01-8	Phenanthrene	72.08	1.67	3.33	6.67	
129-00-0	Pyrene	76.41	1.67	3.33	6.67	

SYSTEM MONITORING COMPOUND	ADDED (ug/Kg wet)	CONC (ug/Kg wet)	% REC	QC LIMITS	Q
2-Fluorobiphenyl	3333	2557	76.7	14 - 129	
Terphenyl-d14	3333	3295	98.9	14 - 129	

ANALYSIS DATA SHEET

Matrix Spike

Laboratory: Empirical Laboratories, LLC SDG: 1202150

Client: Tetra Tech NUS, Inc. (T010) Project: Navy Fuel Depot CTO JM46

Matrix: Laboratory ID: 2B22014-MS1 File ID: 0215001M.D

Sampled: Prepared: Analyzed: 02/24/12 20:29

Solids: Preparation: EXT_3546 Dilution:

Batch: 2B22014 Sequence: 2B05912 Calibration: 2052003 Instrument: MS-BNA4

CAS NO.	COMPOUND	ONC. (ug/Kg dry	DL	LOD	LOQ	Q
83-32-9	Acenaphthene	84.18	17.2	34.2	68.5	D
208-96-8	Acenaphthylene	123.6	17.2	34.2	68.5	D
120-12-7	Anthracene	98.15	17.2	34.2	68.5	D
56-55-3	Benzo(a)anthracene	190.8	17.2	34.2	68.5	D
50-32-8	Benzo(a)pyrene	203.0	17.2	34.2	68.5	D
205-99-2	Benzo(b)fluoranthene	214.3	17.2	34.2	68.5	D
191-24-2	Benzo(g,h,i)perylene	156.7	17.2	34.2	68.5	D
207-08-9	Benzo(k)fluoranthene	225.2	17.2	34.2	68.5	D
218-01-9	Chrysene	270.8	17.2	34.2	68.5	D
53-70-3	Dibenz(a,h)anthracene	91.91	17.2	34.2	68.5	D
206-44-0	Fluoranthene	189.2	17.2	34.2	68.5	D
86-73-7	Fluorene	77.06	17.2	34.2	68.5	D
193-39-5	Indeno(1,2,3-cd)pyrene	138.6	17.2	34.2	68.5	D
90-12-0	1-Methylnaphthalene	74.44	17.2	34.2	68.5	D
91-57-6	2-Methylnaphthalene	76.28	17.2	34.2	68.5	D
91-20-3	Naphthalene	81.81	17.2	34.2	68.5	D
85-01-8	Phenanthrene	108.1	17.2	34.2	68.5	D
129-00-0	Pyrene	261.6	17.2	34.2	68.5	D

SYSTEM MONITORING COMPOUND	ADDED (ug/Kg dry)	CONC (ug/Kg dry)	% REC	QC LIMITS	Q
2-Fluorobiphenyl	3425	2998	87.5	14 - 129	
Terphenyl-d14	3425	3836	112	14 - 129	

ANALYSIS DATA SHEET

Matrix Spike Dup

Laboratory: Empirical Laboratories, LLC SDG: 1202150

Client: Tetra Tech NUS, Inc. (T010) Project: Navy Fuel Depot CTO JM46

Matrix: Laboratory ID: 2B22014-MSD1 File ID: 0215001S.D

Sampled: Prepared: Analyzed: 02/24/12 20:57

Solids: Preparation: EXT_3546 Dilution:

Batch: 2B22014 Sequence: 2B05912 Calibration: 2052003 Instrument: MS-BNA4

CAS NO.	COMPOUND	ONC. (ug/Kg dry	DL	LOD	LOQ	Q
83-32-9	Acenaphthene	77.91	16.9	33.8	67.7	D
208-96-8	Acenaphthylene	106.2	16.9	33.8	67.7	D
120-12-7	Anthracene	88.33	16.9	33.8	67.7	D
56-55-3	Benzo(a)anthracene	163.3	16.9	33.8	67.7	D
50-32-8	Benzo(a)pyrene	170.2	16.9	33.8	67.7	D
205-99-2	Benzo(b)fluoranthene	195.4	16.9	33.8	67.7	D
191-24-2	Benzo(g,h,i)perylene	130.5	16.9	33.8	67.7	D
207-08-9	Benzo(k)fluoranthene	181.8	16.9	33.8	67.7	D
218-01-9	Chrysene	215.0	16.9	33.8	67.7	D
53-70-3	Dibenz(a,h)anthracene	82.03	16.9	33.8	67.7	D
206-44-0	Fluoranthene	183.4	16.9	33.8	67.7	D
86-73-7	Fluorene	80.24	16.9	33.8	67.7	D
193-39-5	Indeno(1,2,3-cd)pyrene	109.6	16.9	33.8	67.7	D
90-12-0	1-Methylnaphthalene	66.09	16.9	33.8	67.7	, D I
91-57-6	2-Methylnaphthalene	68.91	16.9	33.8	67.7	D
91-20-3	Naphthalene	69.45	16.9	33.8	67.7	D
85-01-8	Phenanthrene	105.1	16.9	33.8	67.7	D
129-00-0	Pyrene	248.0	16.9	33.8	67.7	D

SYSTEM MONITORING COMPOUND	ADDED (ug/Kg dry)	CONC (ug/Kg dry)	% REC	QC LIMITS	Q
2-Fluorobiphenyl	3381	2663	78.8	14 - 129	
Terphenyl-d14	3381	3458	102	14 - 129	

ANALYSIS DATA SHEET

Blank

Laboratory: Empirical Laboratories, LLC SDG: 1202150

Client: Tetra Tech NUS, Inc. (T010) Project: Navy Fuel Depot CTO JM46

Matrix: Laboratory ID: 2B23003-BLK2 File ID: B23003B1.D

Sampled: Prepared: Analyzed: 02/28/12 19:17

Solids: Preparation: EXT_3510 Dilution:

Batch: 2B23003 Sequence: 2C06114 Calibration: 2052003 Instrument: MS-BNA4

CAS NO.	COMPOUND	CONC. (ug/L)	DL	LOD	LOQ	Q
83-32-9	Acenaphthene		0.0500	0.100	0.200	U
208-96-8	Acenaphthylene		0.0500	0.100	0.200	U
120-12-7	Anthracene		0.0500	0.100	0.200	U
56-55-3	Benzo(a)anthracene		0.0500	0.100	0.200	U
50-32-8	Benzo(a)pyrene		0.0500	0.100	0.200	U
205-99-2	Benzo(b)fluoranthene		0.0500	0.100	0.200	U
191-24-2	Benzo(g,h,i)perylene		0.0500	0.100	0.200	U
207-08-9	Benzo(k)fluoranthene		0.0500	0.100	0.200	U
218-01-9	Chrysene		0.0500	0.100	0.200	U
53-70-3	Dibenz(a,h)anthracene		0.0500	0.100	0.200	U
206-44-0	Fluoranthene		0.0500	0.100	0.200	U
86-73-7	Fluorene		0.0500	0.100	0.200	U
193-39-5	Indeno(1,2,3-cd)pyrene		0.0500	0.100	0.200	U
90-12-0	1-Methylnaphthalene		0.0500	0.100	0.200	U
91-57-6	2-Methylnaphthalene		0.0500	0.100	0.200	U
91-20-3	Naphthalene		0.0500	0.100	0.200	U
85-01-8	Phenanthrene		0.0500	0.100	0.200	U
129-00-0	Pyrene		0.0500	0.100	0.200	U

SYSTEM MONITORING COMPOUND	ADDED (ug/L)	CONC (ug/L)	% REC	QC LIMITS	Q
2-Fluorobiphenyl	50.00	25.79	51.6	34 - 167	
Terphenyl-d14	50.00	38.31	76.6	34 - 167	

ANALYSIS DATA SHEET

LCS

Laboratory: Empirical Laboratories, LLC SDG: 1202150

Client: Tetra Tech NUS, Inc. (T010) Project: Navy Fuel Depot CTO JM46

Matrix: Laboratory ID: 2B23003-BS2 File ID: B23003L1.D

Sampled: Prepared: Analyzed: 02/28/12 18:20

Solids: Preparation: EXT_3510 Dilution:

Batch: 2B23003 Sequence: 2C06114 Calibration: 2052003 Instrument: MS-BNA4

CAS NO.	COMPOUND	CONC. (ug/L)	DL	LOD	LOQ	Q
83-32-9	Acenaphthene	0.9482	0.0500	0.100	0.200	
208-96-8	Acenaphthylene	0.9480	0.0500	0.100	0.200	
120-12-7	Anthracene	0.9274	0.0500	0.100	0.200	
56-55-3	Benzo(a)anthracene	1.104	0.0500	0.100	0.200	
50-32-8	Benzo(a)pyrene	1.041	0.0500	0.100	0.200	
205-99-2	Benzo(b)fluoranthene	0.9693	0.0500	0.100	0.200	
191-24-2	Benzo(g,h,i)perylene	1.260	0.0500	0.100	0.200	
207-08-9	Benzo(k)fluoranthene	1.037	0.0500	0.100	0.200	
218-01-9	Chrysene	1.128	0.0500	0.100	0.200	
53-70-3	Dibenz(a,h)anthracene	1.196	0.0500	0.100	0.200	
206-44-0	Fluoranthene	1.012	0.0500	0.100	0.200	
86-73-7	Fluorene	0.9435	0.0500	0.100	0.200	
193-39-5	Indeno(1,2,3-cd)pyrene	1.215	0.0500	0.100	0.200	
90-12-0	1-Methylnaphthalene	0.8584	0.0500	0.100	0.200	
91-57-6	2-Methylnaphthalene	0.8869	0.0500	0.100	0.200	
91-20-3	Naphthalene	0.9069	0.0500	0.100	0.200	
85-01-8	Phenanthrene	0.9944	0.0500	0.100	0.200	
129-00-0	Pyrene	0.9927	0.0500	0.100	0.200	

SYSTEM MONITORING COMPOUND	ADDED (ug/L)	CONC (ug/L)	% REC	QC LIMITS	Q
2-Fluorobiphenyl	50.00	40.42	80.8	34 - 167	
Terphenyl-d14	50.00	50.09	100	34 - 167	

ANALYSIS DATA SHEET

LCS Dup

Laboratory: Empirical Laboratories, LLC SDG: 1202150

Client: Tetra Tech NUS, Inc. (T010) Project: Navy Fuel Depot CTO JM46

Matrix: Laboratory ID: 2B23003-BSD2 File ID: B23003L2.D

Sampled: Prepared: Analyzed: 02/28/12 18:48

Solids: Preparation: EXT_3510 Dilution:

Batch: 2B23003 Sequence: 2C06114 Calibration: 2052003 Instrument: MS-BNA4

CAS NO.	COMPOUND	CONC. (ug/L)	DL	LOD	LOQ	Q
83-32-9	Acenaphthene	1.123	0.0500	0.100	0.200	
208-96-8	Acenaphthylene	1.134	0.0500	0.100	0.200	
120-12-7	Anthracene	1.040	0.0500	0.100	0.200	
56-55-3	Benzo(a)anthracene	0.8857	0.0500	0.100	0.200	
50-32-8	Benzo(a)pyrene	1.004	0.0500	0.100	0.200	
205-99-2	Benzo(b)fluoranthene	1.041	0.0500	0.100	0.200	
191-24-2	Benzo(g,h,i)perylene	1.174	0.0500	0.100	0.200	
207-08-9	Benzo(k)fluoranthene	1.156	0.0500	0.100	0.200	
218-01-9	Chrysene	0.8829	0.0500	0.100	0.200	
53-70-3	Dibenz(a,h)anthracene	1.128	0.0500	0.100	0.200	
206-44-0	Fluoranthene	1.053	0.0500	0.100	0.200	
86-73-7	Fluorene	1.116	0.0500	0.100	0.200	
193-39-5	Indeno(1,2,3-cd)pyrene	1.144	0.0500	0.100	0.200	
90-12-0	1-Methylnaphthalene	1.005	0.0500	0.100	0.200	
91-57-6	2-Methylnaphthalene	1.028	0.0500	0.100	0.200	
91-20-3	Naphthalene	1.040	0.0500	0.100	0.200	
85-01-8	Phenanthrene	1.111	0.0500	0.100	0.200	
129-00-0	Pyrene	1.006	0.0500	0.100	0.200	

SYSTEM MONITORING COMPOUND	ADDED (ug/L)	CONC (ug/L)	% REC	QC LIMITS	Q
2-Fluorobiphenyl	50.00	45.70	91.4	34 - 167	
Terphenyl-d14	50.00	50.01	100	34 - 167	

ANALYSIS DATA SHEET

Blank

Laboratory: Empirical Laboratories, LLC SDG: 1202150

Client: Tetra Tech NUS, Inc. (T010) Project: Navy Fuel Depot CTO JM46

Matrix: Laboratory ID: 2B24004-BLK2 File ID: B24004B1.D

Sampled: Prepared: Analyzed: 02/29/12 00:59

Solids: Preparation: EXT_3546 Dilution:

Batch: 2B24004 Sequence: 2C06114 Calibration: 2052003 Instrument: MS-BNA4

CAS NO.	COMPOUND	ONC. (ug/Kg we	DL	LOD	LOQ	Q
83-32-9	Acenaphthene		1.67	3.33	6.67	U
208-96-8	Acenaphthylene		1.67	3.33	6.67	U
120-12-7	Anthracene		1.67	3.33	6.67	U
56-55-3	Benzo(a)anthracene		1.67	3.33	6.67	U
50-32-8	Benzo(a)pyrene		1.67	3.33	6.67	U
205-99-2	Benzo(b)fluoranthene		1.67	3.33	6.67	U
191-24-2	Benzo(g,h,i)perylene		1.67	3.33	6.67	U
207-08-9	Benzo(k)fluoranthene		1.67	3.33	6.67	U
218-01-9	Chrysene		1.67	3.33	6.67	U
53-70-3	Dibenz(a,h)anthracene		1.67	3.33	6.67	U
206-44-0	Fluoranthene		1.67	3.33	6.67	U
86-73-7	Fluorene		1.67	3.33	6.67	U
193-39-5	Indeno(1,2,3-cd)pyrene		1.67	3.33	6.67	U
90-12-0	1-Methylnaphthalene		1.67	3.33	6.67	U
91-57-6	2-Methylnaphthalene		1.67	3.33	6.67	U
91-20-3	Naphthalene		1.67	3.33	6.67	U
85-01-8	Phenanthrene		1.67	3.33	6.67	U
129-00-0	Pyrene		1.67	3.33	6.67	U

SYSTEM MONITORING COMPOUND	ADDED (ug/Kg wet)	CONC (ug/Kg wet)	% REC	QC LIMITS	Q
2-Fluorobiphenyl	3333	2849	85.5	14 - 129	
Terphenyl-d14	3333	3342	100	14 - 129	

ANALYSIS DATA SHEET

LCS

Laboratory: Empirical Laboratories, LLC
SDG: 1202150
Client: Tetra Tech NUS, Inc. (T010)
Project: Navy Fuel Depot CTO JM46
Matrix:
Laboratory ID: 2B24004-BS2
File ID: B24004L1.D
Sampled:
Prepared:
Analyzed: 02/29/12 00:31
Solids:
Preparation: EXT_3546
Dilution:
Batch: 2B24004
Sequence: 2C06114
Calibration: 2052003
Instrument: MS-BNA4

CAS NO.	COMPOUND	ONC. (ug/Kg we	DL	LOD	LOQ	Q
83-32-9	Acenaphthene	67.14	1.67	3.33	6.67	
208-96-8	Acenaphthylene	69.83	1.67	3.33	6.67	
120-12-7	Anthracene	71.38	1.67	3.33	6.67	
56-55-3	Benzo(a)anthracene	81.30	1.67	3.33	6.67	
50-32-8	Benzo(a)pyrene	69.57	1.67	3.33	6.67	
205-99-2	Benzo(b)fluoranthene	65.10	1.67	3.33	6.67	
191-24-2	Benzo(g,h,i)perylene	75.18	1.67	3.33	6.67	
207-08-9	Benzo(k)fluoranthene	71.80	1.67	3.33	6.67	
218-01-9	Chrysene	78.05	1.67	3.33	6.67	
53-70-3	Dibenz(a,h)anthracene	75.15	1.67	3.33	6.67	
206-44-0	Fluoranthene	72.08	1.67	3.33	6.67	
86-73-7	Fluorene	69.23	1.67	3.33	6.67	
193-39-5	Indeno(1,2,3-cd)pyrene	77.75	1.67	3.33	6.67	
90-12-0	1-Methylnaphthalene	64.97	1.67	3.33	6.67	
91-57-6	2-Methylnaphthalene	65.36	1.67	3.33	6.67	
91-20-3	Naphthalene	64.47	1.67	3.33	6.67	
85-01-8	Phenanthrene	71.19	1.67	3.33	6.67	
129-00-0	Pyrene	73.18	1.67	3.33	6.67	

SYSTEM MONITORING COMPOUND	ADDED (ug/Kg wet)	CONC (ug/Kg wet)	% REC	QC LIMITS	Q
2-Fluorobiphenyl	3333	2820	84.6	14 - 129	
Terphenyl-d14	3333	3355	101	14 - 129	

ANALYSIS DATA SHEET

Matrix Spike

Laboratory: Empirical Laboratories, LLC SDG: 1202150

Client: Tetra Tech NUS, Inc. (T010) Project: Navy Fuel Depot CTO JM46

Matrix: Laboratory ID: 2B24004-MS1 File ID: 0215022M.D

Sampled: Prepared: Analyzed: 02/29/12 01:56

Solids: Preparation: EXT_3546 Dilution:

Batch: 2B24004 Sequence: 2C06114 Calibration: 2052003 Instrument: MS-BNA4

CAS NO.	COMPOUND	ONC. (ug/Kg dry	DL	LOD	LOQ	Q
83-32-9	Acenaphthene	68.79	1.74	3.47	6.95	
208-96-8	Acenaphthylene	71.70	1.74	3.47	6.95	
120-12-7	Anthracene	73.56	1.74	3.47	6.95	
56-55-3	Benzo(a)anthracene	87.69	1.74	3.47	6.95	
50-32-8	Benzo(a)pyrene	78.30	1.74	3.47	6.95	
205-99-2	Benzo(b)fluoranthene	67.76	1.74	3.47	6.95	
191-24-2	Benzo(g,h,i)perylene	84.87	1.74	3.47	6.95	
207-08-9	Benzo(k)fluoranthene	73.45	1.74	3.47	6.95	
218-01-9	Chrysene	84.55	1.74	3.47	6.95	
53-70-3	Dibenz(a,h)anthracene	76.08	1.74	3.47	6.95	
206-44-0	Fluoranthene	83.20	1.74	3.47	6.95	
86-73-7	Fluorene	72.77	1.74	3.47	6.95	
193-39-5	Indeno(1,2,3-cd)pyrene	79.91	1.74	3.47	6.95	
90-12-0	1-Methylnaphthalene	66.99	1.74	3.47	6.95	
91-57-6	2-Methylnaphthalene	66.57	1.74	3.47	6.95	
91-20-3	Naphthalene	66.28	1.74	3.47	6.95	
85-01-8	Phenanthrene	76.45	1.74	3.47	6.95	
129-00-0	Pyrene	82.50	1.74	3.47	6.95	

SYSTEM MONITORING COMPOUND	ADDED (ug/Kg dry)	CONC (ug/Kg dry)	% REC	QC LIMITS	Q
2-Fluorobiphenyl	3474	2911	83.8	14 - 129	
Terphenyl-d14	3474	3476	100	14 - 129	

ANALYSIS DATA SHEET

Matrix Spike Dup

Laboratory: Empirical Laboratories, LLC SDG: 1202150

Client: Tetra Tech NUS, Inc. (T010) Project: Navy Fuel Depot CTO JM46

Matrix: Laboratory ID: 2B24004-MSD1 File ID: 0215022S.D

Sampled: Prepared: Analyzed: 02/29/12 02:25

Solids: Preparation: EXT_3546 Dilution:

Batch: 2B24004 Sequence: 2C06114 Calibration: 2052003 Instrument: MS-BNA4

CAS NO.	COMPOUND	ONC. (ug/Kg dry	DL	LOD	LOQ	Q
83-32-9	Acenaphthene	63.43	1.74	3.47	6.95	
208-96-8	Acenaphthylene	65.34	1.74	3.47	6.95	
120-12-7	Anthracene	67.38	1.74	3.47	6.95	
56-55-3	Benzo(a)anthracene	73.73	1.74	3.47	6.95	
50-32-8	Benzo(a)pyrene	70.96	1.74	3.47	6.95	
205-99-2	Benzo(b)fluoranthene	67.42	1.74	3.47	6.95	
191-24-2	Benzo(g,h,i)perylene	61.66	1.74	3.47	6.95	
207-08-9	Benzo(k)fluoranthene	72.08	1.74	3.47	6.95	
218-01-9	Chrysene	72.01	1.74	3.47	6.95	
53-70-3	Dibenz(a,h)anthracene	54.82	1.74	3.47	6.95	
206-44-0	Fluoranthene	71.40	1.74	3.47	6.95	
86-73-7	Fluorene	66.05	1.74	3.47	6.95	
193-39-5	Indeno(1,2,3-cd)pyrene	57.62	1.74	3.47	6.95	
90-12-0	1-Methylnaphthalene	60.14	1.74	3.47	6.95	
91-57-6	2-Methylnaphthalene	59.18	1.74	3.47	6.95	
91-20-3	Naphthalene	58.46	1.74	3.47	6.95	
85-01-8	Phenanthrene	66.99	1.74	3.47	6.95	
129-00-0	Pyrene	69.92	1.74	3.47	6.95	

SYSTEM MONITORING COMPOUND	ADDED (ug/Kg dry)	CONC (ug/Kg dry)	% REC	QC LIMITS	Q
2-Fluorobiphenyl	3474	2632	75.8	14 - 129	
Terphenyl-d14	3474	3212	92.5	14 - 129	

HOLDING TIME SUMMARY

SW8270C

Laboratory: Empirical Laboratories, LLC SDG: 1202150

Client: Tetra Tech NUS, Inc. (T010) Project: Navy Fuel Depot CTO JM46

Sample Name	Date Collected	Date Received	Date Prepared	Days to Prep	Max Days to Prep	Date Analyzed	Days to Analysis	Max Days to Analysis	Q
FLC-4-SS03-0006-022112	02/21/12 08:00	02/22/12 08:20	02/22/12 13:54	1.25	14.00	02/24/12 20:01	2.25	40.00	
FLC-4-SS04-0006-022112	02/21/12 08:10	02/22/12 08:20	02/22/12 13:54	1.24	14.00	02/24/12 21:25	2.31	40.00	
FLC-4-PO1-0624-022112	02/21/12 08:20	02/22/12 08:20	02/22/12 13:54	1.23	14.00	02/24/12 21:52	2.33	40.00	
FLC-4-PO1-0204-022112	02/21/12 08:25	02/22/12 08:20	02/22/12 13:54	1.23	14.00	02/24/12 23:15	2.39	40.00	
FLC-4-RB01-022112	02/21/12 08:30	02/22/12 08:20	02/23/12 13:24	2.20	7.00	02/28/12 21:11	5.32	40.00	
FLC-4-PO2-0624-022112	02/21/12 08:40	02/22/12 08:20	02/22/12 13:54	1.22	14.00	02/24/12 23:43	2.41	40.00	
FLC-4-PO2-0204-022112	02/21/12 08:45	02/22/12 08:20	02/22/12 13:54	1.21	14.00	02/25/12 00:12	2.43	40.00	
FLC-4-PO3-0624-022112	02/21/12 09:00	02/22/12 08:20	02/22/12 13:54	1.20	14.00	02/25/12 00:41	2.45	40.00	
FLC-4-PO3-0204-022112	02/21/12 09:05	02/22/12 08:20	02/22/12 13:54	1.20	14.00	02/25/12 01:09	2.47	40.00	
FLC-4-PO4-0624-022112	02/21/12 09:20	02/22/12 08:20	02/22/12 13:54	1.19	14.00	02/25/12 01:37	2.49	40.00	
FLC-4-PO4-0204-022112	02/21/12 09:25	02/22/12 08:20	02/22/12 13:54	1.19	14.00	02/25/12 02:05	2.51	40.00	
FLC-4-DUP02-022112	02/21/12 00:00	02/22/12 08:20	02/22/12 13:54	1.58	14.00	02/25/12 02:34	2.53	40.00	
FLC-4-DUP01-022112	02/21/12 00:00	02/22/12 08:20	02/22/12 13:54	1.58	14.00	02/25/12 03:02	2.55	40.00	
FLC-4-RB02-022112	02/21/12 09:30	02/22/12 08:20	02/23/12 13:24	2.16	7.00	02/28/12 21:40	5.34	40.00	
FLC-4-PO6-0624-022112	02/21/12 10:15	02/22/12 08:20	02/22/12 13:54	1.15	14.00	02/25/12 05:23	2.65	40.00	
FLC-4-PO6-0204-022112	02/21/12 10:20	02/22/12 08:20	02/22/12 13:54	1.15	14.00	02/25/12 05:51	2.66	40.00	
FLC-4-PO7-0624-022112	02/21/12 10:25	02/22/12 08:20	02/22/12 13:54	1.15	14.00	02/25/12 06:19	2.68	40.00	
FLC-4-PO7-0204-022112	02/21/12 10:30	02/22/12 08:20	02/22/12 13:54	1.14	14.00	02/25/12 06:47	2.70	40.00	
FLC-4-PO8-0624-022112	02/21/12 10:35	02/22/12 08:20	02/22/12 13:54	1.14	14.00	02/25/12 07:16	2.72	40.00	
FLC-4-PO8-0204-022112	02/21/12 10:40	02/22/12 08:20	02/24/12 10:05	2.98	14.00	02/29/12 01:28	4.64	40.00	
FLC-4-PO9-0006-022112	02/21/12 10:50	02/22/12 08:20	02/24/12 10:05	2.97	14.00	02/29/12 02:54	4.70	40.00	
FLC-4-PO9-0624-022112	02/21/12 10:55	02/22/12 08:20	02/24/12 10:05	2.97	14.00	02/29/12 03:22	4.72	40.00	
FLC-4-PO9-0204-022112	02/21/12 11:00	02/22/12 08:20	02/24/12 10:05	2.96	14.00	02/29/12 03:50	4.74	40.00	
FLC-4-DUP03-022112	02/21/12 00:00	02/22/12 08:20	02/24/12 10:05	3.42	14.00	02/29/12 04:19	4.76	40.00	

Data for SW8270C (PAH) Supporting Raw Data / Logs

Sequence Name: C:\msdchem\1\sequence\022012B4.S
Comment: EPA8270
Operator: MEC
Data Path: D:\DATA\022012B4\
Instrument Control Pre-Seq Cmd:
Data Analysis Pre-Seq Cmd:

Instrument Control Post-Seq Cmd:
Data Analysis Post-Seq Cmd:

1092
MEC
2/21/12

Method Sections To Run
(X) Full Method
( ) Reprocessing Only

On A Barcode Mismatch
(X) Inject Anyway
( ) Don't Inject

Line			Sample Name/Misc Info	
1)	Sample	1	SEQ-TUN1 DFBN4LOW DF0220B1;;;;;;12B0448	16:07, 2/20
2)	Sample	2	SEQ-CAL1 IXBN4LOW SEQ-CAL1;;;;;;12B0492	
3)	Sample	3	SEQ-CAL2 IXBN4LOW SEQ-CAL2;;;;;;12B0493	
4)	Sample	4	SEQ-CAL3 IXBN4LOW SEQ-CAL3;;;;;;12B0494	
5)	Sample	5	SEQ-CAL4 IXBN4LOW SEQ-CAL4;;;;;;12B0496	
6)	Sample	6	SEQ-CAL5 IXBN4LOW SEQ-CAL5;;;;;;12B0497	
7)	Sample	7	SEQ-CAL6 IXBN4LOW SEQ-CAL6;;;;;;12B0498	
8)	Sample	8	SEQ-CAL7 IXBN4LOW SEQ-CAL7;;;;;;12B0499	
9)	Sample	9	SEQ-CAL8 IXBN4LOW SEQ-CAL8;;;;;;12B0500	
10)	Sample	10	SEQ-CAL9 IXBN4LOW SEQ-CAL9;;;;;;12B0501	
11)	Sample	11	SEQ-CALA IXBN4LOW SEQ-CALA;;;;;;12B0502	20:32, 2/20
12)	Sample	12	SEQ-ICV1 IXBN4LOW SEQ-ICV1;;;;;;12B0552	Do not use.

Last Modified: Tue Feb 21 09:16:08 2012

Data File: \\ELABNSH05\TARGET\chem\bna4.i\022012B4.b\SEQ-TUN1.D

Date : 20-FEB-2012 16:09

Client ID: 50ppm DFTPP

Instrument: bna4.i

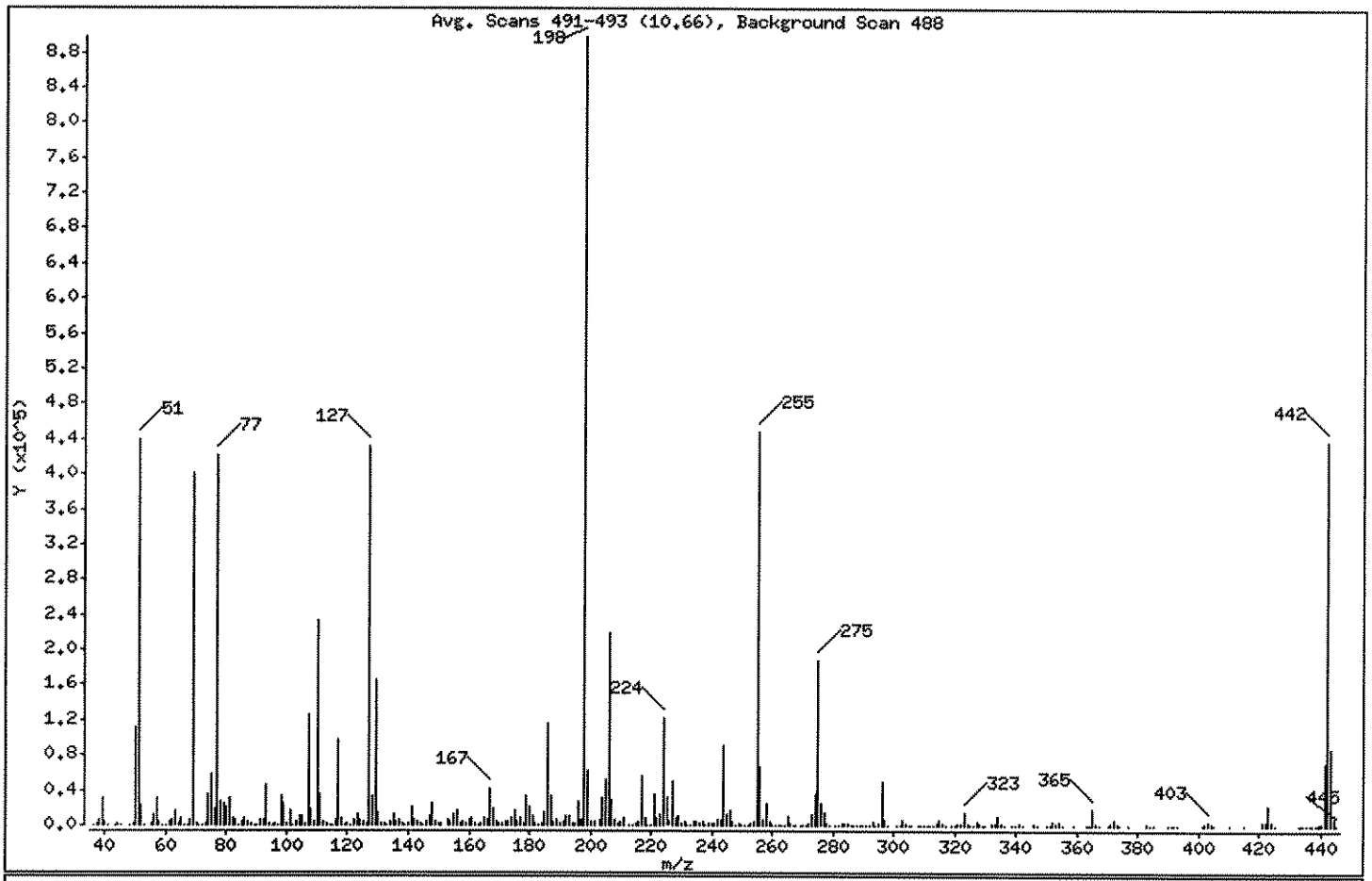
Sample Info: DF0220B1;;;;;;12B0448

Operator: MEC

Column phase: DB5-MS

Column diameter: 0.25

1 dftpp



m/e	ION ABUNDANCE CRITERIA	% RELATIVE ABUNDANCE
198	Base Peak, 100% relative abundance	100.00
51	30.00 - 60.00% of mass 198	48.88
68	Less than 2.00% of mass 69	0.66 (1.48)
69	Mass 69 relative abundance	44.61
70	Less than 2.00% of mass 69	0.22 (0.49)
127	40.00 - 60.00% of mass 198	48.15
197	Less than 1.00% of mass 198	0.60
199	5.00 - 9.00% of mass 198	6.86
275	10.00 - 30.00% of mass 198	20.93
365	Greater than 1.00% of mass 198	2.09
441	Present, but less than mass 443	7.87
442	Greater than 40.00% of mass 198	48.80
443	17.00 - 23.00% of mass 442	9.71 (19.90)

MEC 2/21/12

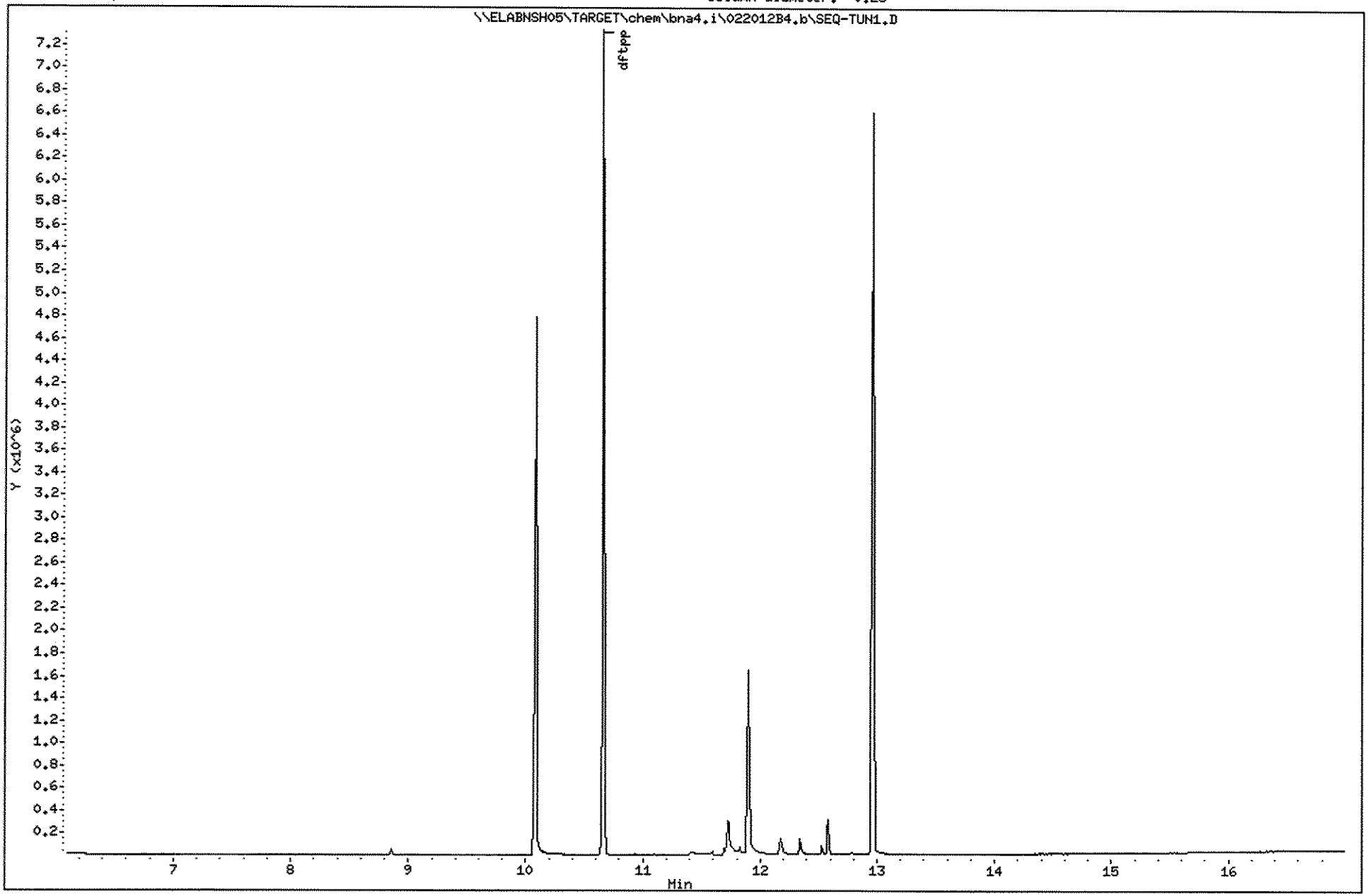
Data File: \\ELABNSH05\TARGET\chem\bna4.i\022012B4.b\SEQ-TUN1.D
Date : 20-FEB-2012 16:09
Client ID: 50ppm DFTPP
Sample Info: DF0220B1;;;;;;12B0448

Instrument: bna4.i

Operator: MEC

Column phase: DB5-MS

Column diameter: 0.25



109

1202150

Data File: \\ELABNSH05\TARGET\chem\bna4.i\022012B4.b\SEQ-TUN1.D

Date : 20-FEB-2012 16:09

Client ID: 50ppm DFTPP

Instrument: bna4.i

Sample Info: DF0220B1;;;;;;12B0448

Operator: MEC

Column phase: DB5-MS

Column diameter: 0.25

Data File: SEQ-TUN1.D

Spectrum: Avg. Scans 491-493 (10.66), Background Scan 488

Location of Maximum: 198.00

Number of points: 348

m/z	Y	m/z	Y	m/z	Y	m/z	Y
36.00	659	128.00	33432	218.00	7678	310.00	616
37.10	1723	129.00	164416	219.00	846	311.10	163
38.10	5390	130.00	13692	219.90	945	312.00	184
39.10	31832	131.00	3020	221.00	35776	313.00	397
40.00	4728	132.00	1446	221.70	7247	314.00	2349
41.10	931	133.00	637	223.00	13378	315.00	5353
43.10	187	134.00	4511	224.00	120832	316.00	2871
44.00	2311	135.00	12212	225.00	31760	317.00	530
45.00	862	136.00	5156	226.00	3114	319.00	127
48.00	234	137.00	6039	227.00	49160	319.90	207
49.10	2710	137.90	1371	228.00	7482	321.00	1503
50.00	111208	138.90	723	229.00	9767	322.10	1064
51.00	438784	140.00	1458	230.00	1487	323.10	15254
52.00	22248	141.00	20424	231.00	4259	324.10	3037
53.10	808	142.00	6661	232.00	922	325.00	332
55.00	1887	143.00	4934	233.00	974	326.00	310
56.00	13079	144.00	1137	234.00	3155	327.00	3100
57.00	30576	145.00	1023	235.00	3429	328.00	1467
57.90	1266	146.00	3401	236.00	2070	329.00	305
58.90	285	147.00	10089	237.00	3511	329.90	100
60.00	254	148.00	24064	238.00	545	332.00	1167
61.00	4809	149.00	4732	239.00	1533	333.00	1503
62.00	5797	150.00	1175	240.00	1577	334.00	9910
63.00	15952	151.00	2602	241.00	2767	335.00	2341
64.00	1998	153.00	6414	242.00	6336	336.00	395
65.00	7635	154.00	4696	243.00	6671	338.90	170
66.10	619	155.00	11950	244.00	90544	340.00	235
67.00	441	156.00	17312	245.10	12841	341.00	1600
68.00	5920	157.00	3081	246.00	16616	342.00	513
69.00	400448	158.00	3524	247.00	3242	346.00	2839
70.00	1975	159.00	2808	248.00	825	347.00	621
71.00	181	160.00	6173	249.00	3085	350.00	142
72.10	207	161.00	9209	250.00	820	351.00	299
73.00	2626	162.00	2660	250.90	846	352.00	4769
74.00	35736	163.00	779	252.00	768	353.00	2936

Data File: \\ELABNSH05\TARGET\chem\bna4.i\022012B4.b\SEQ-TUN1.D

Date : 20-FEB-2012 16:09

Client ID: 50ppm DFTPP

Instrument: bna4.i

Sample Info: DF0220B1;;;;;;12B0448

Operator: MEC

Column phase: DB5-MS

Column diameter: 0.25

Data File: SEQ-TUN1.D

Spectrum: Avg. Scans 491-493 (10.66), Background Scan 488

Location of Maximum: 198.00

Number of points: 348

m/z	Y	m/z	Y	m/z	Y	m/z	Y
75.00	58000	164.00	1153	253.00	2266	354.00	4179
76.10	18872	165.00	7922	254.10	4910	355.10	862
77.00	421504	166.00	6001	255.00	447296	359.00	268
78.10	27776	167.00	42000	256.00	66328	363.00	158
79.00	25648	168.00	19352	257.00	5225	363.50	102
80.00	19960	169.00	3245	258.00	24632	364.10	324
81.00	29968	170.00	1341	259.00	3766	365.00	18776
82.00	7345	171.00	1701	260.00	710	366.00	2898
83.00	6756	172.00	3661	261.00	680	367.00	134
83.90	487	173.00	5045	262.00	318	370.00	408
85.00	4667	174.00	8889	263.00	306	371.00	1032
86.00	7618	175.00	16520	264.00	885	372.00	6951
87.00	3672	176.00	4629	265.00	10251	373.00	1763
88.00	1499	177.00	7227	266.00	1468	374.00	331
89.00	628	178.00	2554	266.90	162	376.90	178
90.00	157	179.00	32312	267.90	346	383.00	2042
91.00	6329	180.00	21248	269.20	146	384.00	563
92.00	6479	181.00	10480	270.00	604	385.00	152
93.00	45544	182.00	1445	271.10	806	390.10	828
94.00	3091	183.00	846	272.00	1257	391.00	622
95.00	658	184.00	2395	273.00	12800	392.00	483
96.10	1863	185.00	14692	274.00	34208	392.90	102
97.10	758	186.00	116400	275.00	187904	401.00	334
98.00	32520	187.00	33608	276.00	23936	402.00	2997
99.00	25128	188.00	3385	277.00	15038	403.00	3687
100.00	2303	189.00	6561	278.00	2233	404.00	1282
101.00	16381	190.00	1130	279.00	537	405.10	176
102.00	848	191.00	3677	280.90	212	410.00	122
103.00	4925	192.00	9601	282.10	390	414.90	201
104.00	10136	193.00	11114	283.00	1591	421.00	3122
105.00	9295	194.00	2547	284.00	1263	422.00	3364
106.00	2866	195.00	1382	285.00	2780	423.00	22224
107.00	125856	196.00	26512	286.10	546	424.00	4551
108.00	18984	196.70	5392	287.00	156	425.00	539
109.00	3391	197.10	6839	287.90	141	433.00	107

Data File: \\ELABNSH05\TARGET\chem\bna4.i\022012B4.b\SEQ-TUN1.D

Date : 20-FEB-2012 16:09

Client ID: 50ppm DFTPP

Instrument: bna4.i

Sample Info: DF0220B1;;;;;;12B0448

Operator: MEC

Column phase: DB5-MS

Column diameter: 0.25

Data File: SEQ-TUN1.D

Spectrum: Avg. Scans 491-493 (10.66), Background Scan 488

Location of Maximum: 198.00

Number of points: 348

m/z	Y	m/z	Y	m/z	Y	m/z	Y
110.00	233664	198.00	897664	289.00	601	433.60	108
111.00	35360	199.00	61616	290.00	499	434.10	137
112.00	3934	200.00	4792	291.00	363	435.20	160
113.00	1294	201.50	3884	292.10	670	436.60	296
114.20	345	203.00	5954	293.00	3568	437.20	361
114.90	570	204.00	30704	294.00	1012	438.20	627
116.00	6424	205.00	52080	295.00	1483	438.90	956
117.00	96616	206.00	219200	296.00	49816	439.60	1182
118.00	7299	207.00	28840	297.00	7157	440.20	1571
119.00	867	208.00	6921	298.00	558	441.00	70608
120.00	1385	209.00	1946	300.90	575	442.00	438016
121.10	473	210.00	3335	302.00	927	443.00	87160
122.00	7050	211.00	8088	303.00	5612	444.00	7911
123.00	11392	213.00	538	304.00	1523	445.00	595
124.00	5603	214.00	237	305.00	163		
125.00	4987	215.00	2268	306.00	112		
126.10	2540	216.00	4481	308.00	595		
127.00	432256	217.00	55184	308.90	567		

Sequence Name: C:\msdchem\1\sequence\02212B4.S

	Line Type	Vial	DataFile	Method	Sample Name
44)	Duplicate	42	0207103S	IXBN4LOW	2B10016-MSD3;1;15;1000;1;ug/K

Repeat after cleanup.

1094

MFC

2/22/12

Data File: \\ELABNSH05\TARGET\chem\bna4.i\022112B4.b\SEQ-TUN1.D

Date : 21-FEB-2012 10:40

Client ID: 50ppm DFTPP

Instrument: bna4.i

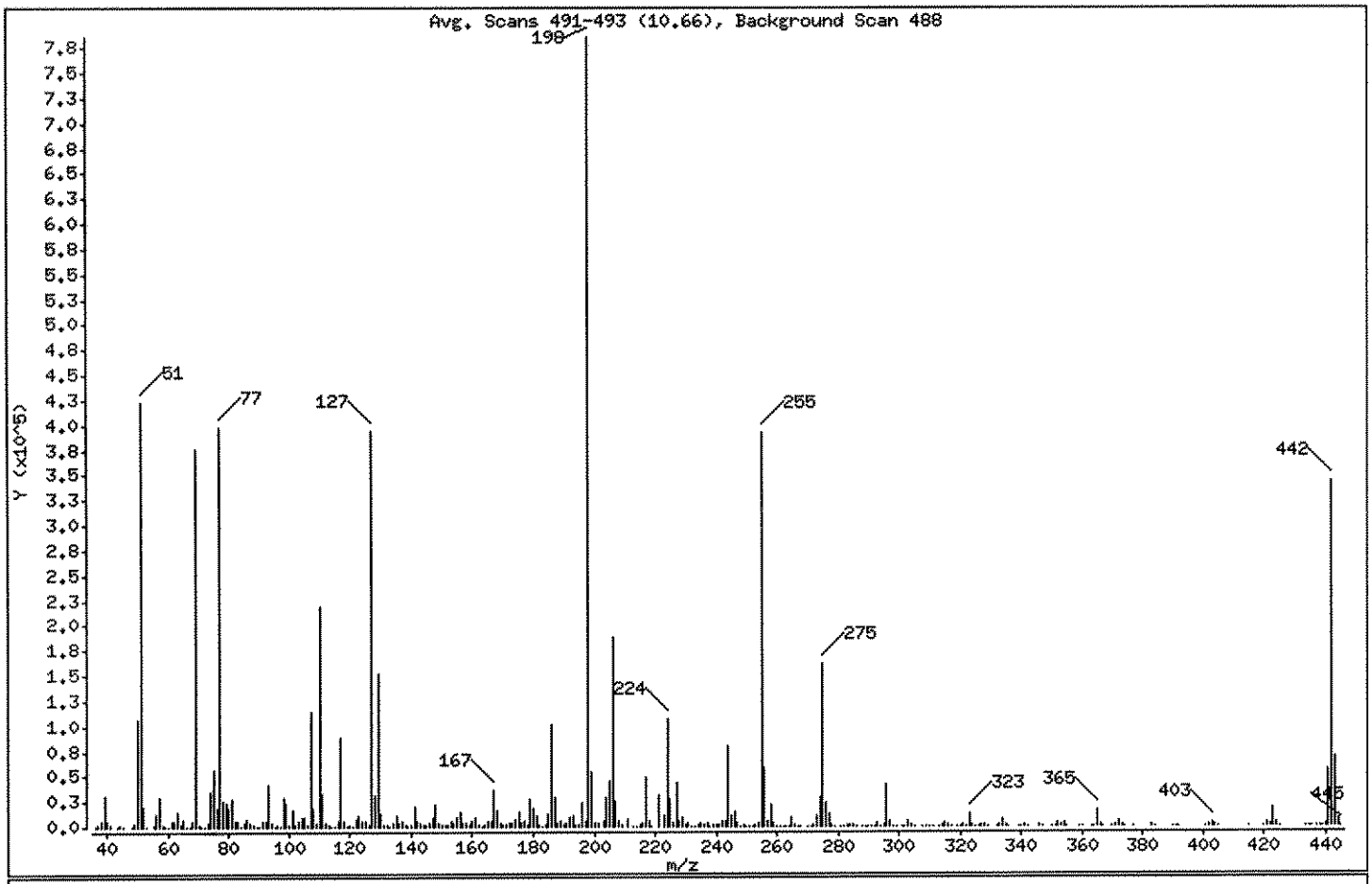
Sample Info: DF0221B1;;;;;;12B0448

Operator: MEC

Column phase: DB5-MS

Column diameter: 0.25

1 dftpp



m/e	ION ABUNDANCE CRITERIA	% RELATIVE ABUNDANCE
198	Base Peak, 100% relative abundance	100.00
51	30.00 - 60.00% of mass 198	53.69
68	Less than 2.00% of mass 69	0.74 (1.55)
69	Mass 69 relative abundance	47.88
70	Less than 2.00% of mass 69	0.22 (0.47)
127	40.00 - 60.00% of mass 198	50.17
197	Less than 1.00% of mass 198	0.74
199	5.00 - 9.00% of mass 198	6.96
275	10.00 - 30.00% of mass 198	20.39
365	Greater than 1.00% of mass 198	2.00
441	Present, but less than mass 443	7.07
442	Greater than 40.00% of mass 198	43.75
443	17.00 - 23.00% of mass 442	8.70 (19.88)

02/23/12

MEC

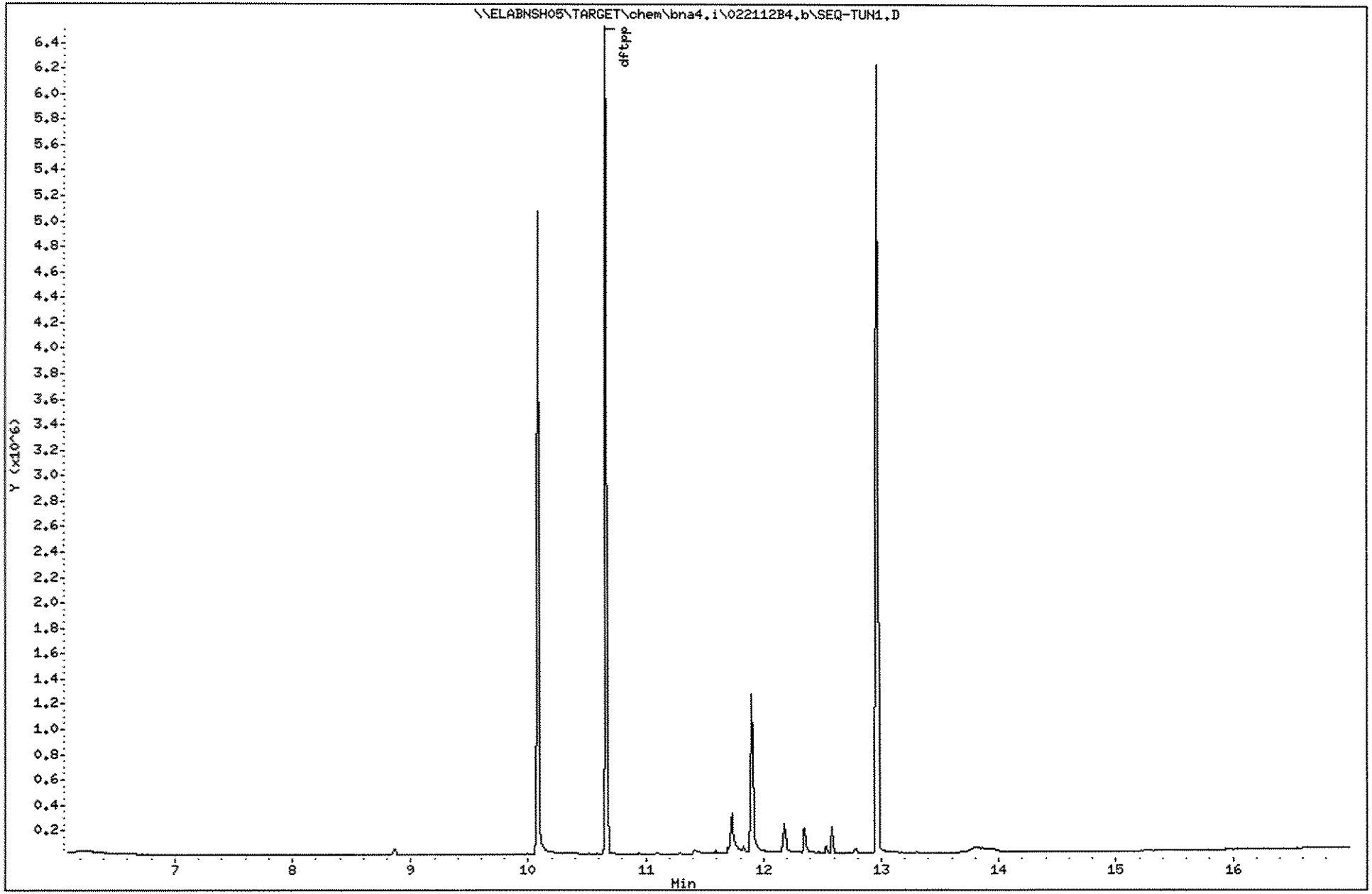
Data File: \\ELABNSH05\TARGET\chem\bna4.i\022112B4.b\SEQ-TUN1.D
Date : 21-FEB-2012 10:40
Client ID: 50ppm DFTPP
Sample Info: DF0221B1;;;;;;;12B0448

Instrument: bna4.i

Operator: MEC

Column phase: DB5-MS

Column diameter: 0.25



115

1202150

Data File: \\ELABNSH05\TARGET\chem\bna4.i\022112B4.b\SEQ-TUN1.D

Date : 21-FEB-2012 10:40

Client ID: 50ppm DFTPP

Instrument: bna4.i

Sample Info: DF0221B1;;;;;;12B0448

Operator: MEC

Column phase: DB5-MS

Column diameter: 0.25

Data File: SEQ-TUN1.D
Spectrum: Avg. Scans 491-493 (10.66), Background Scan 488
Location of Maximum: 198.00
Number of points: 339

m/z	Y	m/z	Y	m/z	Y	m/z	Y
36.00	571	125.00	4653	211.00	7442	301.90	756
37.00	1483	126.20	2572	212.90	567	303.00	4557
38.00	4646	127.00	394560	213.80	175	304.10	1430
39.10	30832	128.00	30200	214.10	184	305.00	169
40.00	5075	129.00	152128	215.00	1954	307.90	507
41.00	948	130.00	12654	216.00	4124	309.00	472
43.10	169	131.00	2411	217.00	48416	310.00	565
44.00	1581	132.00	1322	218.00	6317	311.00	136
45.00	770	132.70	412	219.00	526	313.10	371
48.00	202	133.10	401	221.00	31288	314.00	1887
49.00	2741	134.00	3952	223.00	11486	315.00	4343
50.00	106232	135.00	11581	224.00	106832	316.00	2567
51.00	422272	136.00	4314	225.00	26496	317.00	570
52.00	20384	137.00	5451	226.00	2879	319.00	123
53.10	753	138.00	1081	227.00	42872	320.00	160
55.00	1684	138.90	684	228.00	5873	321.00	1207
56.00	11925	140.00	1938	229.00	9037	322.10	687
57.00	28968	141.00	19376	230.00	1331	323.00	12748
58.00	1345	142.00	6218	231.00	3660	324.00	2448
59.00	426	143.00	4368	231.90	538	325.10	277
60.00	226	144.00	1265	233.00	692	326.00	286
61.00	4594	145.00	1006	234.00	2310	327.00	2387
62.00	5055	146.00	3271	235.00	3071	328.00	1215
63.00	14569	147.00	8718	235.90	2149	329.00	188
64.10	2328	148.00	21224	237.00	3235	332.00	708
65.00	6968	149.00	4493	238.00	493	333.00	1008
66.00	572	150.00	1152	239.00	1467	334.00	7855
67.00	439	151.10	2345	240.00	1362	335.00	1920
68.00	5854	151.90	1472	240.90	2246	336.00	239
69.00	376512	153.00	5484	242.00	5317	339.00	194
70.00	1764	154.00	4317	243.00	6231	339.90	240
70.90	139	155.00	9925	244.00	79480	341.00	1625
72.00	112	156.00	15235	245.00	10854	342.10	445
73.00	2755	157.00	2892	246.00	14568	346.00	2419
74.00	33760	158.00	3204	247.00	2831	347.00	433

Data File: \\ELABNSH05\TARGET\chem\bna4.i\022112B4.b\SEQ-TUN1.D

Date : 21-FEB-2012 10:40

Client ID: 50ppm DFTPP

Instrument: bna4.i

Sample Info: DF0221B1;;;;;;12B0448

Operator: MEC

Column phase: DB5-MS

Column diameter: 0.25

Data File: SEQ-TUN1.D

Spectrum: Avg. Scans 491-493 (10.66), Background Scan 488

Location of Maximum: 198.00

Number of points: 339

m/z	Y	m/z	Y	m/z	Y	m/z	Y
75.00	56488	159.00	2651	248.00	789	349.80	111
76.10	17392	160.00	5619	249.00	2656	351.10	247
77.00	397568	161.00	9109	250.00	606	352.00	3436
78.10	25936	162.00	1992	250.90	767	353.00	2663
79.00	23880	163.00	724	252.00	844	354.00	3672
80.00	18856	164.00	1191	253.00	1962	355.00	601
81.00	27392	165.00	5903	254.10	4380	359.00	269
82.00	6289	166.00	5547	255.00	392768	360.10	116
83.00	6194	167.00	36992	256.00	58560	362.90	133
84.00	529	168.00	16536	257.00	4766	363.90	210
85.00	4470	169.00	3139	258.00	21456	365.00	15759
86.00	7266	170.00	1364	259.00	3571	366.00	2022
87.00	2952	171.00	1552	260.00	623	367.00	189
88.00	1245	172.00	3562	261.00	724	370.00	331
89.00	615	173.00	4334	262.10	329	371.00	977
89.90	132	174.00	7868	263.00	281	372.00	5866
91.00	5754	175.00	13846	264.00	544	373.10	1359
92.00	6296	176.00	4044	265.00	8645	374.00	180
93.00	42040	177.00	6023	265.90	1403	377.00	148
94.00	3104	178.00	2351	266.90	119	383.00	1732
95.00	811	179.00	27800	267.90	334	384.00	402
96.00	1947	180.00	18456	269.90	383	390.00	704
97.10	838	181.00	10070	271.00	803	391.00	549
98.00	29376	182.00	1425	272.00	1072	392.00	368
99.00	23664	183.00	750	273.00	10813	401.00	373
100.00	2007	184.00	1938	274.00	29752	402.00	2145
101.00	15667	185.00	13029	275.00	160384	403.00	3206
102.00	1039	186.00	100888	276.00	22920	404.00	1220
103.00	4694	187.00	28520	277.00	12210	405.00	175
104.00	8809	188.00	2878	278.00	2122	415.00	129
105.00	8576	189.00	5778	279.00	501	420.00	122
106.00	2531	190.00	1092	281.00	141	421.00	2927
107.00	113936	191.00	2746	282.00	536	422.00	2289
108.00	18296	192.00	8171	283.00	1455	423.00	17952
109.00	3056	193.00	10276	284.00	1081	424.10	3362

Data File: \\ELABNSH05\TARGET\chem\bna4.i\022112B4.b\SEQ-TUN1.D

Date : 21-FEB-2012 10:40

Client ID: 50ppm DFTPP

Instrument: bna4.i

Sample Info: DF0221B1;;;;;;12B0448

Operator: MEC

Column phase: DB5-MS

Column diameter: 0.25

Data File: SEQ-TUN1.D

Spectrum: Avg. Scans 491-493 (10.66), Background Scan 488

Location of Maximum: 198.00

Number of points: 339

m/z	Y	m/z	Y	m/z	Y	m/z	Y
110.00	218240	194.00	1905	285.00	1990	425.10	389
111.00	33184	195.00	1362	286.00	380	433.60	101
112.00	3893	196.00	23048	288.10	170	434.50	101
113.00	1086	197.10	5856	289.00	571	435.00	103
114.00	283	198.00	786432	290.00	432	435.40	114
115.00	528	199.00	54720	291.00	436	437.00	334
116.00	6078	200.00	4275	292.10	786	438.10	547
117.00	88160	201.50	3172	293.00	2841	438.80	640
118.00	6040	203.00	5203	294.00	813	440.20	1281
119.00	657	204.00	28144	295.00	995	441.00	55608
120.00	1506	205.00	44768	296.00	41192	442.00	344064
121.00	570	206.00	188800	297.00	5839	443.00	68392
122.00	7209	207.00	25680	298.00	353	444.10	6639
123.00	11438	208.00	5768	299.10	159	445.10	543
124.00	4916	209.00	2040	301.10	492		

Data File: \\ELABNSH05\TARGET\chem\bna4.i\022012B4.b\SEQ-CAL1.D
Report Date: 21-Feb-2012 10:23

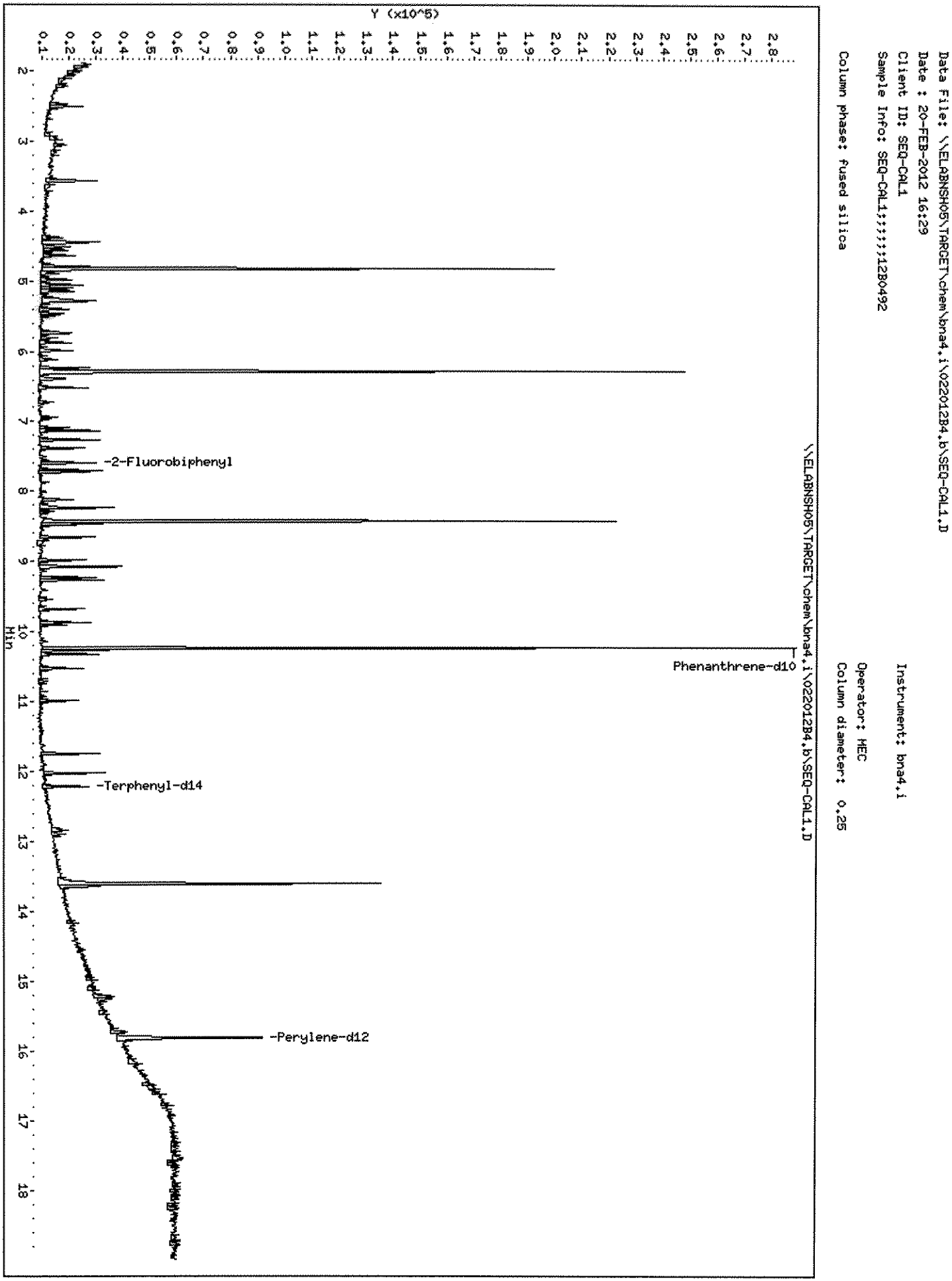
Laboratory Name

Data file : \\ELABNSH05\TARGET\chem\bna4.i\022012B4.b\SEQ-CAL1.D
Lab Smp Id: SEQ-CAL1 Client Smp ID: SEQ-CAL1
Inj Date : 20-FEB-2012 16:29
Operator : MEC Inst ID: bna4.i
Smp Info : SEQ-CAL1;;;;;;12B0492
Misc Info : ;1;;;1;;pahlow.sub;
Comment :
Method : \\ELABNSH05\TARGET\chem\bna4.i\022012B4.b\IXBN4LOW.m
Meth Date : 21-Feb-2012 10:23 mcobb Quant Type: ISTD
Cal Date : 20-FEB-2012 16:29 Cal File: SEQ-CAL1.D
Als bottle: 2 Calibration Sample, Level: 1
Dil Factor: 1.00000
Integrator: HP RTE Compound Sublist: pahlow.sub
Target Version: 4.04
Processing Host: TARGET09_VM

Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	AMOUNTS CAL-AMT (ng/ul)	AMOUNTS ON-COL (ng/ul)
51 Naphthalene	128	6.302	6.302	(0.616)	11152	0.10000	0.1047
55 2-Methylnaphthalene	142	7.130	7.130	(0.697)	7383	0.10000	0.1064
56 1-Methylnaphthalene	142	7.260	7.260	(0.709)	6454	0.10000	0.09605
$ 74 2-Fluorobiphenyl	172	7.594	7.594	(0.742)	8305	0.10000	0.09808
77 Acenaphthylene	152	8.236	8.236	(0.805)	9438	0.10000	0.09453
80 Acenaphthene	153	8.468	8.468	(0.827)	6733	0.10000	0.1003
88 Fluorene	166	9.082	9.082	(0.887)	6897	0.10000	0.09460
* 102 Phenanthrene-d10	188	10.235	10.235	(1.000)	105322	1.00000	
111 Phenanthrene	178	10.262	10.262	(1.003)	10313	0.10000	0.09915
112 Anthracene	178	10.318	10.318	(1.008)	9456	0.10000	0.09429
116 Fluoranthene	202	11.741	11.741	(1.147)	9656	0.10000	0.09036
134 Pyrene	202	12.019	12.019	(1.174)	9648	0.10000	0.08764
* 154 Perylene-d12	264	15.812	15.812	(1.000)	33465	1.00000	
$ 135 Terphenyl-d14	244	12.205	12.205	(1.193)	6602	0.10000	0.09070
138 Benzo(a)anthracene	228	13.572	13.572	(1.326)	5580	0.10000	0.08031
139 Chrysene	228	13.637	13.637	(1.332)	5547	0.10000	0.07986
156 Benzo(b)fluoranthene	252	15.208	15.208	(0.962)	3989	0.10000	0.09506
157 Benzo(k)fluoranthene	252	15.245	15.245	(0.964)	4180	0.10000	0.1011
158 Benzo(a)pyrene	252	15.719	15.719	(0.994)	2930	0.10000	0.09315
159 Indeno(1,2,3-cd)pyrene	276	17.532	17.532	(1.109)	2000	0.10000	0.08002
160 Dibenz(a,h)anthracene	278	17.541	17.541	(1.109)	1544	0.10000	0.07759
161 Benzo(g,h,i)perylene	276	18.006	18.006	(1.139)	1978	0.10000	0.08785

2/23/12

MEC 2/21/12


Data File: \\ELABNSH05\TARGET\chem\bna4.i\022012B4.b\SEQ-CAL1.D
Date : 20-FEB-2012 16:29
Client ID: SEQ-CAL1
Sample Info: SEQ-CAL1;;;;;;12B0492
Column phase: fused silica
Instrument: bna4.i
Operator: MEC
Column diameter: 0.25
\\ELABNSH05\TARGET\chem\bna4.i\022012B4.b\SEQ-CAL1.D
Y (x10^5)
Min
-2-Fluorobiphenyl
Phenanthrene-d10
-Terphenyl-d14
-Perylene-d12

Data File: \\ELABNSH05\TARGET\chem\bna4.i\022012B4.b\SEQ-CAL2.D
Report Date: 21-Feb-2012 10:17

Laboratory Name

Data file : \\ELABNSH05\TARGET\chem\bna4.i\022012B4.b\SEQ-CAL2.D
Lab Smp Id: SEQ-CAL2 Client Smp ID: SEQ-CAL2
Inj Date : 20-FEB-2012 16:55 MS Autotune Date: 15-FEB-2012 09:23
Operator : MEC Inst ID: bna4.i
Smp Info : SEQ-CAL2;;;;;;12B0493
Misc Info : ;1;;;2;;pahlow.sub;
Comment :
Method : \\ELABNSH05\TARGET\chem\bna4.i\022012B4.b\IXBN4LOW.m
Meth Date : 21-Feb-2012 10:17 mcobb Quant Type: ISTD
Cal Date : 20-FEB-2012 16:55 Cal File: SEQ-CAL2.D
Als bottle: 3 Calibration Sample, Level: 2
Dil Factor: 1.00000
Integrator: HP RTE Compound Sublist: pahlow.sub
Target Version: 4.04
Processing Host: TARGET09_VM

Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	AMOUNTS CAL-AMT (ng/ul)	AMOUNTS ON-COL (ng/ul)
51 Naphthalene	128	6.302	6.302	(0.616)	24783	0.20000	0.2491
55 2-Methylnaphthalene	142	7.129	7.129	(0.697)	15573	0.20000	0.2402
56 1-Methylnaphthalene	142	7.260	7.260	(0.709)	15928	0.20000	0.2537
$ 74 2-Fluorobiphenyl	172	7.585	7.585	(0.741)	18865	0.20000	0.2384
77 Acenaphthylene	152	8.236	8.236	(0.805)	19948	0.20000	0.2138
80 Acenaphthene	153	8.468	8.468	(0.827)	14589	0.20000	0.2326
88 Fluorene	166	9.082	9.082	(0.887)	14494	0.20000	0.2127
* 102 Phenanthrene-d10	188	10.234	10.234	(1.000)	98421	1.00000	
111 Phenanthrene	178	10.262	10.262	(1.003)	21373	0.20000	0.2199
112 Anthracene	178	10.318	10.318	(1.008)	19759	0.20000	0.2108
116 Fluoranthene	202	11.740	11.740	(1.147)	19042	0.20000	0.1907
134 Pyrene	202	12.019	12.019	(1.174)	19857	0.20000	0.1930
* 154 Perylene-d12	264	15.812	15.812	(1.000)	31348	1.00000	
$ 135 Terphenyl-d14	244	12.205	12.205	(1.193)	12623	0.20000	0.1856
138 Benzo(a)anthracene	228	13.572	13.572	(1.326)	11333	0.20000	0.1745
139 Chrysene	228	13.637	13.637	(1.332)	10647	0.20000	0.1640
156 Benzo(b)fluoranthene	252	15.208	15.208	(0.962)	8321	0.20000	0.2117
157 Benzo(k)fluoranthene	252	15.245	15.245	(0.964)	7156	0.20000	0.1848
158 Benzo(a)pyrene	252	15.710	15.710	(0.994)	5829	0.20000	0.1978
159 Indeno(1,2,3-cd)pyrene	276	17.532	17.532	(1.109)	4149	0.20000	0.1772
160 Dibenz(a,h)anthracene	278	17.541	17.541	(1.109)	3046	0.20000	0.1634
161 Benzo(g,h,i)perylene	276	18.016	18.016	(1.139)	3862	0.20000	0.1831

2/21/12

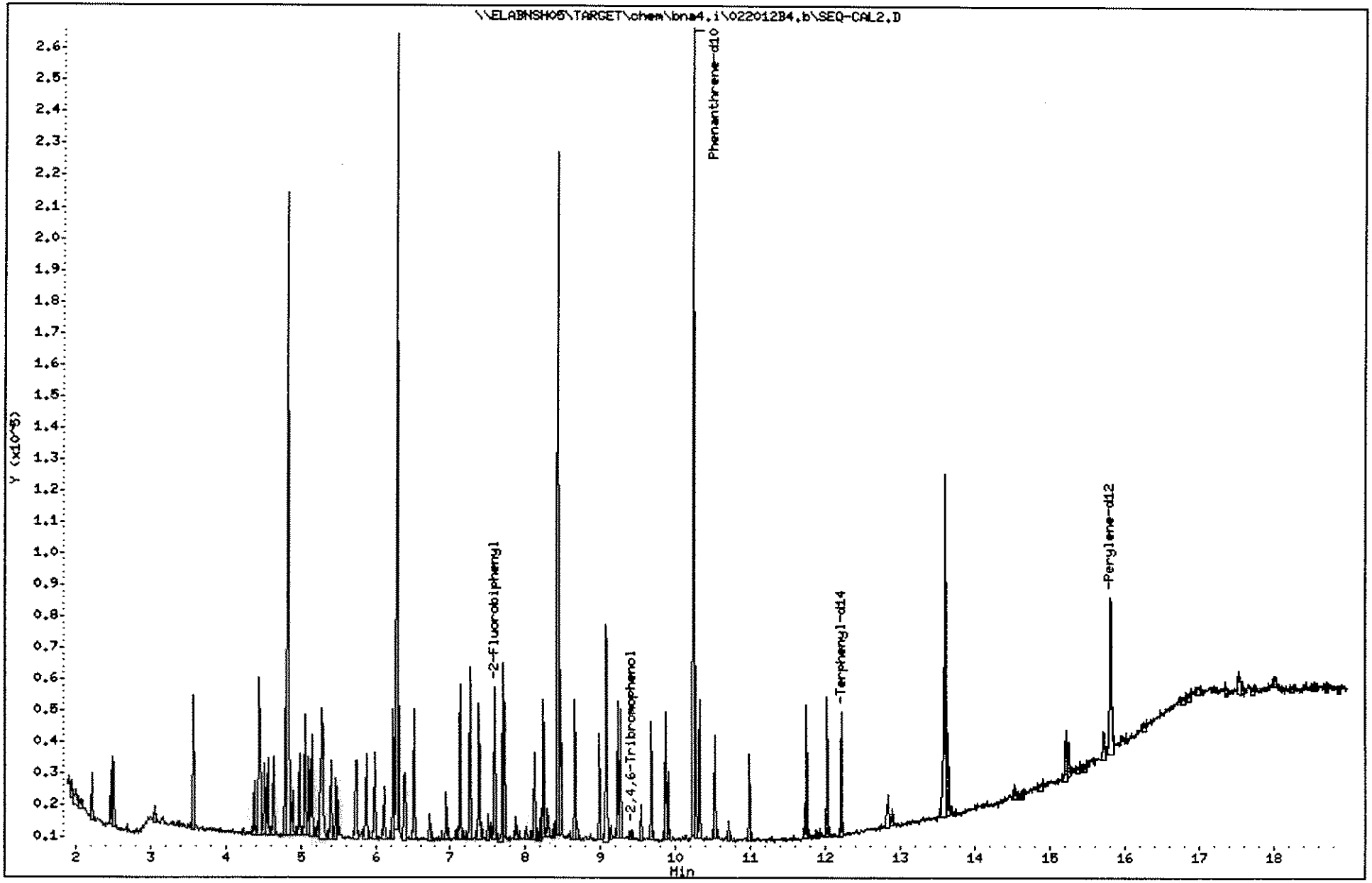
ME
2/21/12

Data File: \\ELABNSH06\TARGET\chem\bna4.i\022012B4.b\SEQ-CAL2.D
Date : 20-FEB-2012 16:55
Client ID: SEQ-CAL2
Sample Info: SEQ-CAL2;;;;;;12B0493

Column phase: fused silica

Instrument: bna4.i

Operator: MEC
Column diameter: 0.25



Data File: \\ELABNSH05\TARGET\chem\bna4.i\022012B4.b\SEQ-CAL3.D
Report Date: 21-Feb-2012 10:17

Laboratory Name

Data file : \\ELABNSH05\TARGET\chem\bna4.i\022012B4.b\SEQ-CAL3.D
Lab Smp Id: SEQ-CAL3 Client Smp ID: SEQ-CAL3
Inj Date : 20-FEB-2012 17:21 MS Autotune Date: 15-FEB-2012 09:23
Operator : MEC Inst ID: bna4.i
Smp Info : SEQ-CAL3;;;;;;12B0494
Misc Info : ;1;;;3;;pahlow.sub;
Comment :
Method : \\ELABNSH05\TARGET\chem\bna4.i\022012B4.b\IXBN4LOW.m
Meth Date : 21-Feb-2012 10:17 mcobb Quant Type: ISTD
Cal Date : 20-FEB-2012 17:21 Cal File: SEQ-CAL3.D
Als bottle: 4 Calibration Sample, Level: 3
Dil Factor: 1.00000
Integrator: HP RTE Compound Sublist: pahlow.sub
Target Version: 4.04
Processing Host: TARGET09_VM

Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	AMOUNTS CAL-AMT (ng/ul)	AMOUNTS ON-COL (ng/ul)
51 Naphthalene	128	6.302	6.302	(0.616)	55574	0.50000	0.6083
55 2-Methylnaphthalene	142	7.129	7.129	(0.697)	36710	0.50000	0.6168
56 1-Methylnaphthalene	142	7.260	7.260	(0.709)	35125	0.50000	0.6092
$ 74 2-Fluorobiphenyl	172	7.594	7.594	(0.742)	44612	0.50000	0.6140
77 Acenaphthylene	152	8.236	8.236	(0.805)	49260	0.50000	0.5750
80 Acenaphthene	153	8.468	8.468	(0.827)	34244	0.50000	0.5946
88 Fluorene	166	9.082	9.082	(0.887)	36674	0.50000	0.5862
* 102 Phenanthrene-d10	188	10.234	10.234	(1.000)	90372	1.00000	
111 Phenanthrene	178	10.262	10.262	(1.003)	52316	0.50000	0.5862
112 Anthracene	178	10.318	10.318	(1.008)	47173	0.50000	0.5482
116 Fluoranthene	202	11.740	11.740	(1.147)	48265	0.50000	0.5264
134 Pyrene	202	12.019	12.019	(1.174)	50274	0.50000	0.5322
* 154 Perylene-d12	264	15.803	15.803	(1.000)	29033	1.00000	
$ 135 Terphenyl-d14	244	12.205	12.205	(1.193)	31703	0.50000	0.5076
138 Benzo(a)anthracene	228	13.572	13.572	(1.326)	28199	0.50000	0.4730
139 Chrysene	228	13.637	13.637	(1.332)	28166	0.50000	0.4726
156 Benzo(b)fluoranthene	252	15.208	15.208	(0.962)	20790	0.50000	0.5711
157 Benzo(k)fluoranthene	252	15.245	15.245	(0.965)	20973	0.50000	0.5847
158 Benzo(a)pyrene	252	15.719	15.719	(0.995)	15103	0.50000	0.5534
159 Indeno(1,2,3-cd)pyrene	276	17.532	17.532	(1.109)	10722	0.50000	0.4944
160 Dibenz(a,h)anthracene	278	17.541	17.541	(1.110)	8444	0.50000	0.4891
161 Benzo(g,h,i)perylene	276	18.015	18.015	(1.140)	10080	0.50000	0.5160

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MEC
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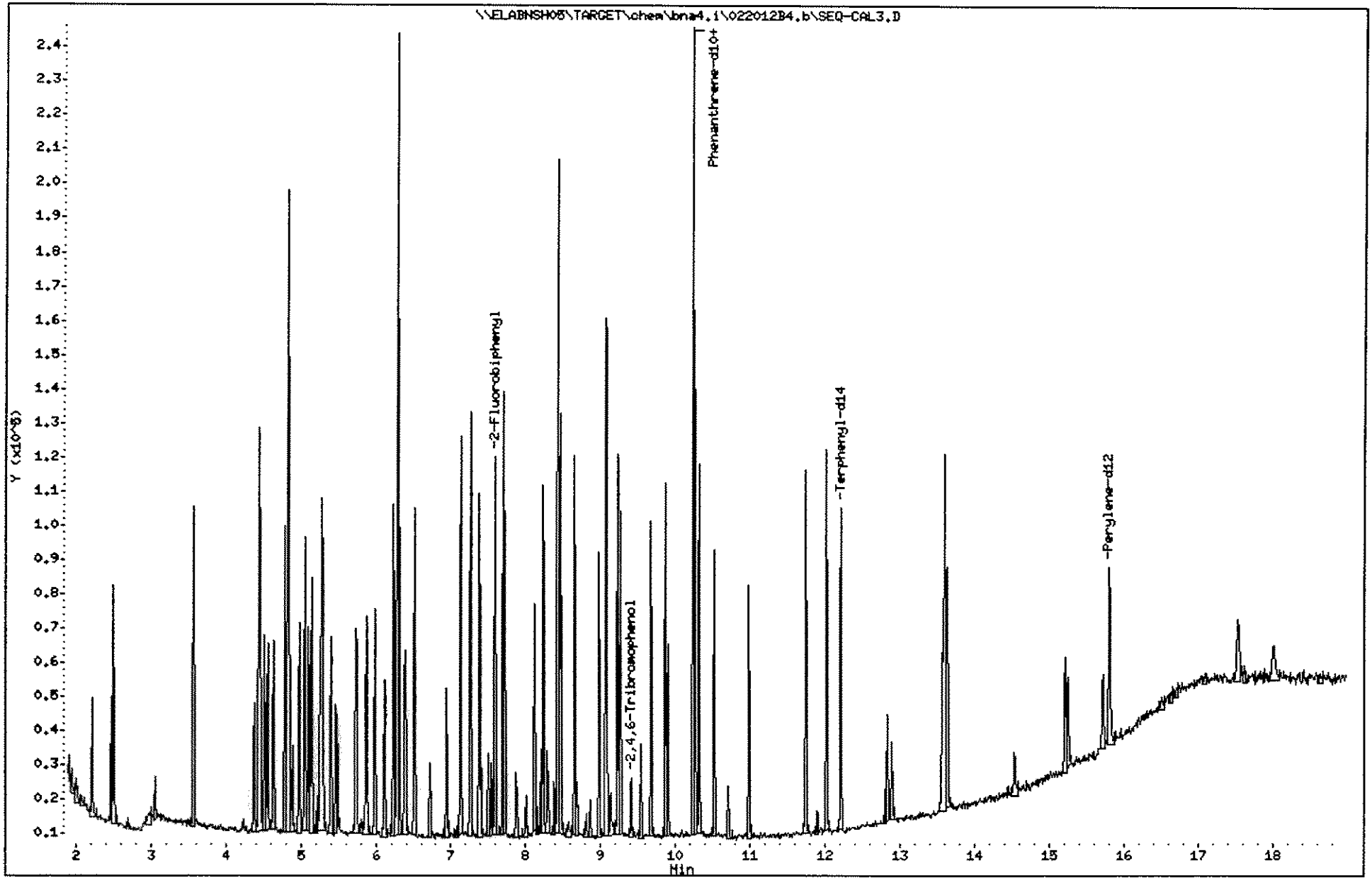
Data File: \\ELABNSH05\TARGET\chem\bna4.i\022012B4.b\SEQ-CAL3.D
Date : 20-FEB-2012 17:21
Client ID: SEQ-CAL3
Sample Info: SEQ-CAL3;;;;;;;12B0494

Column phase: fused silica

Instrument: bna4.i

Operator: MEC
Column diameter: 0.25



Data File: \\ELABNSH05\TARGET\chem\bna4.i\022012B4.b\SEQ-CAL4.D
Report Date: 21-Feb-2012 10:17

Laboratory Name

Data file : \\ELABNSH05\TARGET\chem\bna4.i\022012B4.b\SEQ-CAL4.D
Lab Smp Id: SEQ-CAL4 Client Smp ID: SEQ-CAL4
Inj Date : 20-FEB-2012 17:47
Operator : MEC Inst ID: bna4.i
Smp Info : SEQ-CAL4;;;;;;12B0496
Misc Info : ;1;;;4;;pahlow.sub;
Comment :
Method : \\ELABNSH05\TARGET\chem\bna4.i\022012B4.b\IXBN4LOW.m
Meth Date : 21-Feb-2012 10:17 mcobb Quant Type: ISTD
Cal Date : 20-FEB-2012 17:47 Cal File: SEQ-CAL4.D
Als bottle: 5 Calibration Sample, Level: 4
Dil Factor: 1.00000
Integrator: HP RTE Compound Sublist: pahlow.sub
Target Version: 4.04
Processing Host: TARGET09_VM

Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	AMOUNTS CAL-AMT (ng/ul)	AMOUNTS ON-COL (ng/ul)
51 Naphthalene	128	6.302	6.302	(0.616)	107357	1.00000	1.023
55 2-Methylnaphthalene	142	7.130	7.130	(0.697)	69686	1.00000	1.019
56 1-Methylnaphthalene	142	7.260	7.260	(0.709)	64826	1.00000	0.9786
$ 74 2-Fluorobiphenyl	172	7.585	7.585	(0.741)	86364	1.00000	1.034
77 Acenaphthylene	152	8.236	8.236	(0.805)	99123	1.00000	1.007
80 Acenaphthene	153	8.468	8.468	(0.827)	67864	1.00000	1.026
88 Fluorene	166	9.082	9.082	(0.887)	75026	1.00000	1.044
* 102 Phenanthrene-d10	188	10.235	10.235	(1.000)	103836	1.00000	
111 Phenanthrene	178	10.262	10.262	(1.003)	103157	1.00000	1.006
112 Anthracene	178	10.318	10.318	(1.008)	96035	1.00000	0.9714
116 Fluoranthene	202	11.741	11.741	(1.147)	102727	1.00000	0.9750
134 Pyrene	202	12.019	12.019	(1.174)	107567	1.00000	0.9911
* 154 Perylene-d12	264	15.803	15.803	(1.000)	47583	1.00000	
$ 135 Terphenyl-d14	244	12.205	12.205	(1.193)	71293	1.00000	0.9935
138 Benzo(a)anthracene	228	13.572	13.572	(1.326)	70632	1.00000	1.031
139 Chrysene	228	13.637	13.637	(1.332)	69137	1.00000	1.010
156 Benzo(b)fluoranthene	252	15.208	15.208	(0.962)	54270	1.00000	0.9096
157 Benzo(k)fluoranthene	252	15.245	15.245	(0.965)	54077	1.00000	0.9199
158 Benzo(a)pyrene	252	15.719	15.719	(0.995)	41291	1.00000	0.9232
159 Indeno(1,2,3-cd)pyrene	276	17.532	17.532	(1.109)	34015	1.00000	0.9571
160 Dibenz(a,h)anthracene	278	17.541	17.541	(1.110)	28277	1.00000	0.9993
161 Benzo(g,h,i)perylene	276	18.016	18.016	(1.140)	33188	1.00000	1.037

MEC
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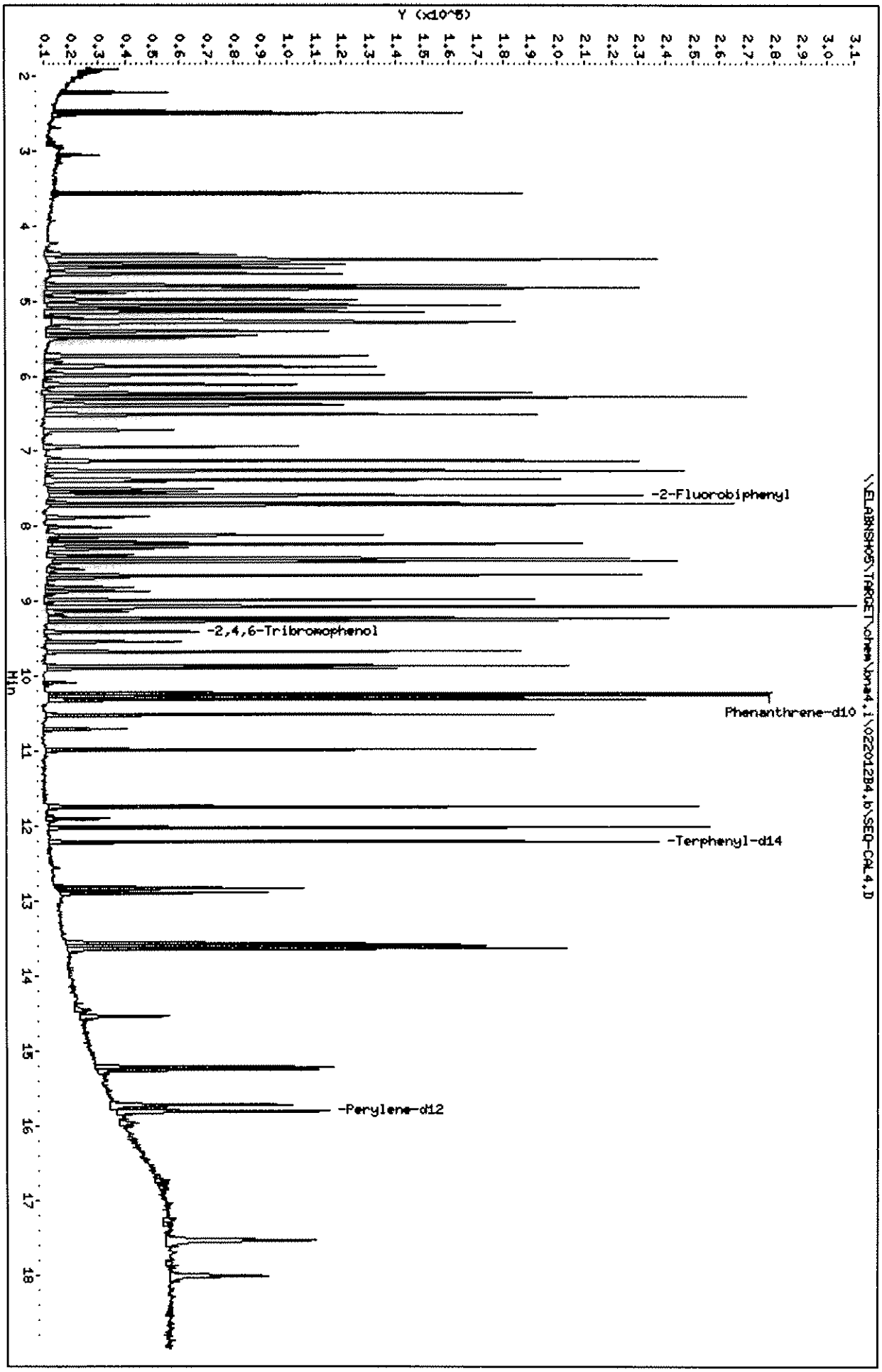
Data File: \\ELABNSHO5\TARGET\chem\bna4.i\022012B4.b\SEQ-CAL4.D
Date : 20-FEB-2012 17:47
Client ID: SEQ-CAL4
Sample Info: SEQ-CAL4;;;;;;;12B0496

Column phase: fused silica

Instrument: bna4.i
Operator: HEC
Column diameter: 0.25



Data File: \\ELABNSH05\TARGET\chem\bna4.i\022012B4.b\SEQ-CAL5.D
Report Date: 21-Feb-2012 10:17

Laboratory Name

Data file : \\ELABNSH05\TARGET\chem\bna4.i\022012B4.b\SEQ-CAL5.D
Lab Smp Id: SEQ-CAL5 Client Smp ID: SEQ-CAL5
Inj Date : 20-FEB-2012 18:14 MS Autotune Date: 15-FEB-2012 09:23
Operator : MEC Inst ID: bna4.i
Smp Info : SEQ-CAL5;;;;;;12B0497
Misc Info : ;1;;;5;;pahlow.sub;
Comment :
Method : \\ELABNSH05\TARGET\chem\bna4.i\022012B4.b\IXBN4LOW.m
Meth Date : 21-Feb-2012 10:17 mcobb Quant Type: ISTD
Cal Date : 20-FEB-2012 18:14 Cal File: SEQ-CAL5.D
Als bottle: 6 Calibration Sample, Level: 5
Dil Factor: 1.00000
Integrator: HP RTE Compound Sublist: pahlow.sub
Target Version: 4.04
Processing Host: TARGET09_VM

Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	AMOUNTS CAL-AMT (ng/ul)	AMOUNTS ON-COL (ng/ul)
51 Naphthalene	128	6.302	6.302	(0.616)	211613	2.00000	2.016
55 2-Methylnaphthalene	142	7.130	7.130	(0.697)	134874	2.00000	1.972
56 1-Methylnaphthalene	142	7.260	7.260	(0.709)	131882	2.00000	1.991
$ 74 2-Fluorobiphenyl	172	7.585	7.585	(0.741)	170122	2.00000	2.038
77 Acenaphthylene	152	8.236	8.236	(0.805)	199978	2.00000	2.032
80 Acenaphthene	153	8.468	8.468	(0.827)	134042	2.00000	2.026
88 Fluorene	166	9.082	9.082	(0.887)	145175	2.00000	2.020
* 102 Phenanthrene-d10	188	10.235	10.235	(1.000)	103837	1.00000	
111 Phenanthrene	178	10.262	10.262	(1.003)	198866	2.00000	1.939
112 Anthracene	178	10.318	10.318	(1.008)	192345	2.00000	1.945
116 Fluoranthene	202	11.741	11.741	(1.147)	205041	2.00000	1.946
134 Pyrene	202	12.020	12.020	(1.174)	216447	2.00000	1.994
* 154 Perylene-d12	264	15.812	15.812	(1.000)	41503	1.00000	
$ 135 Terphenyl-d14	244	12.205	12.205	(1.193)	142417	2.00000	1.984
138 Benzo(a)anthracene	228	13.572	13.572	(1.326)	136657	2.00000	1.995
139 Chrysene	228	13.637	13.637	(1.332)	126748	2.00000	1.851
156 Benzo(b)fluoranthene	252	15.208	15.208	(0.962)	100600	2.00000	1.933
157 Benzo(k)fluoranthene	252	15.245	15.245	(0.964)	102031	2.00000	1.990
158 Benzo(a)pyrene	252	15.719	15.719	(0.994)	73684	2.00000	1.889
159 Indeno(1,2,3-cd)pyrene	276	17.532	17.532	(1.109)	55810	2.00000	1.800
160 Dibenz(a,h)anthracene	278	17.542	17.542	(1.109)	44706	2.00000	1.811
161 Benzo(g,h,i)perylene	276	18.016	18.016	(1.139)	51713	2.00000	1.852

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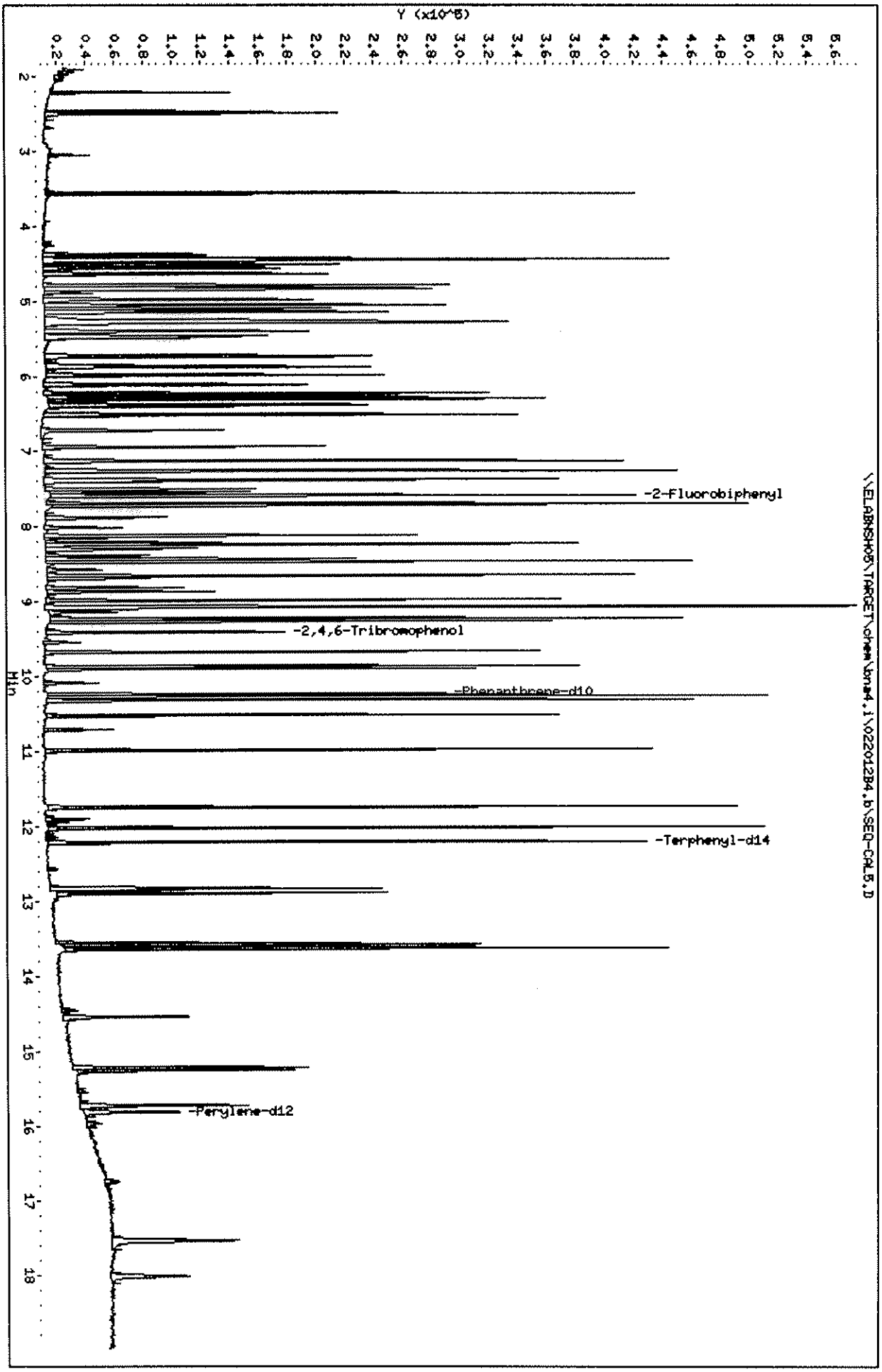
Data File: \\ELABNSHO5\TARGET\chem\bna4.i\022012B4.b\SEQ-CAL5.D
Date : 20-FEB-2012 18:14
Client ID: SEQ-CAL5
Sample Info: SEQ-CAL5;;;;;;;12B0497
Column phase: fused silica
Instrument: bna4.i
Operator: MEC
Column diameter: 0.25
\\ELABNSHO5\TARGET\chem\bna4.i\022012B4.b\SEQ-CAL5.D
Y (x10^5)
Min
-2-Fluorobiphenyl
-2,4,6-Tribromophenol
-Phenanthrene-d10
-Terphenyl-d14
-Perylene-d12

Data File: \\ELABNSH05\TARGET\chem\bna4.i\022012B4.b\SEQ-CAL6.D
Report Date: 21-Feb-2012 10:17

Laboratory Name

Data file : \\ELABNSH05\TARGET\chem\bna4.i\022012B4.b\SEQ-CAL6.D
Lab Smp Id: SEQ-CAL6 Client Smp ID: SEQ-CAL6
Inj Date : 20-FEB-2012 18:40 MS Autotune Date: 15-FEB-2012 09:23
Operator : MEC Inst ID: bna4.i
Smp Info : SEQ-CAL6;;;;;;12B0498
Misc Info : ;1;;;6;;pahlow.sub;
Comment :
Method : \\ELABNSH05\TARGET\chem\bna4.i\022012B4.b\IXBN4LOW.m
Meth Date : 21-Feb-2012 10:17 mcobb Quant Type: ISTD
Cal Date : 20-FEB-2012 18:40 Cal File: SEQ-CAL6.D
Als bottle: 7 Calibration Sample, Level: 6
Dil Factor: 1.00000
Integrator: HP RTE Compound Sublist: pahlow.sub
Target Version: 4.04
Processing Host: TARGET09_VM

Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	AMOUNTS CAL-AMT (ng/ul)	AMOUNTS ON-COL (ng/ul)
51 Naphthalene	128	6.302	6.302	(0.616)	518709	5.00000	4.729
55 2-Methylnaphthalene	142	7.129	7.129	(0.697)	340432	5.00000	4.764
56 1-Methylnaphthalene	142	7.260	7.260	(0.709)	324360	5.00000	4.686
$ 74 2-Fluorobiphenyl	172	7.594	7.594	(0.742)	417717	5.00000	4.789
77 Acenaphthylene	152	8.245	8.245	(0.806)	500999	5.00000	4.871
80 Acenaphthene	153	8.468	8.468	(0.827)	328080	5.00000	4.745
88 Fluorene	166	9.082	9.082	(0.887)	363662	5.00000	4.842
* 102 Phenanthrene-d10	188	10.234	10.234	(1.000)	108502	1.00000	
111 Phenanthrene	178	10.262	10.262	(1.003)	504860	5.00000	4.712
112 Anthracene	178	10.318	10.318	(1.008)	505699	5.00000	4.895
116 Fluoranthene	202	11.740	11.740	(1.147)	543487	5.00000	4.937
134 Pyrene	202	12.019	12.019	(1.174)	562972	5.00000	4.964
* 154 Perylene-d12	264	15.812	15.812	(1.000)	49968	1.00000	
$ 135 Terphenyl-d14	244	12.205	12.205	(1.193)	376040	5.00000	5.015
138 Benzo(a)anthracene	228	13.572	13.572	(1.326)	396788	5.00000	5.543
139 Chrysene	228	13.637	13.637	(1.332)	360619	5.00000	5.040
156 Benzo(b)fluoranthene	252	15.208	15.208	(0.962)	298760	5.00000	4.768
157 Benzo(k)fluoranthene	252	15.245	15.245	(0.964)	329200	5.00000	5.332
158 Benzo(a)pyrene	252	15.719	15.719	(0.994)	234062	5.00000	4.984
159 Indeno(1,2,3-cd)pyrene	276	17.532	17.532	(1.109)	183755	5.00000	4.924
160 Dibenz(a,h)anthracene	278	17.541	17.541	(1.109)	146798	5.00000	4.940
161 Benzo(g,h,i)perylene	276	18.015	18.015	(1.139)	169067	5.00000	5.029

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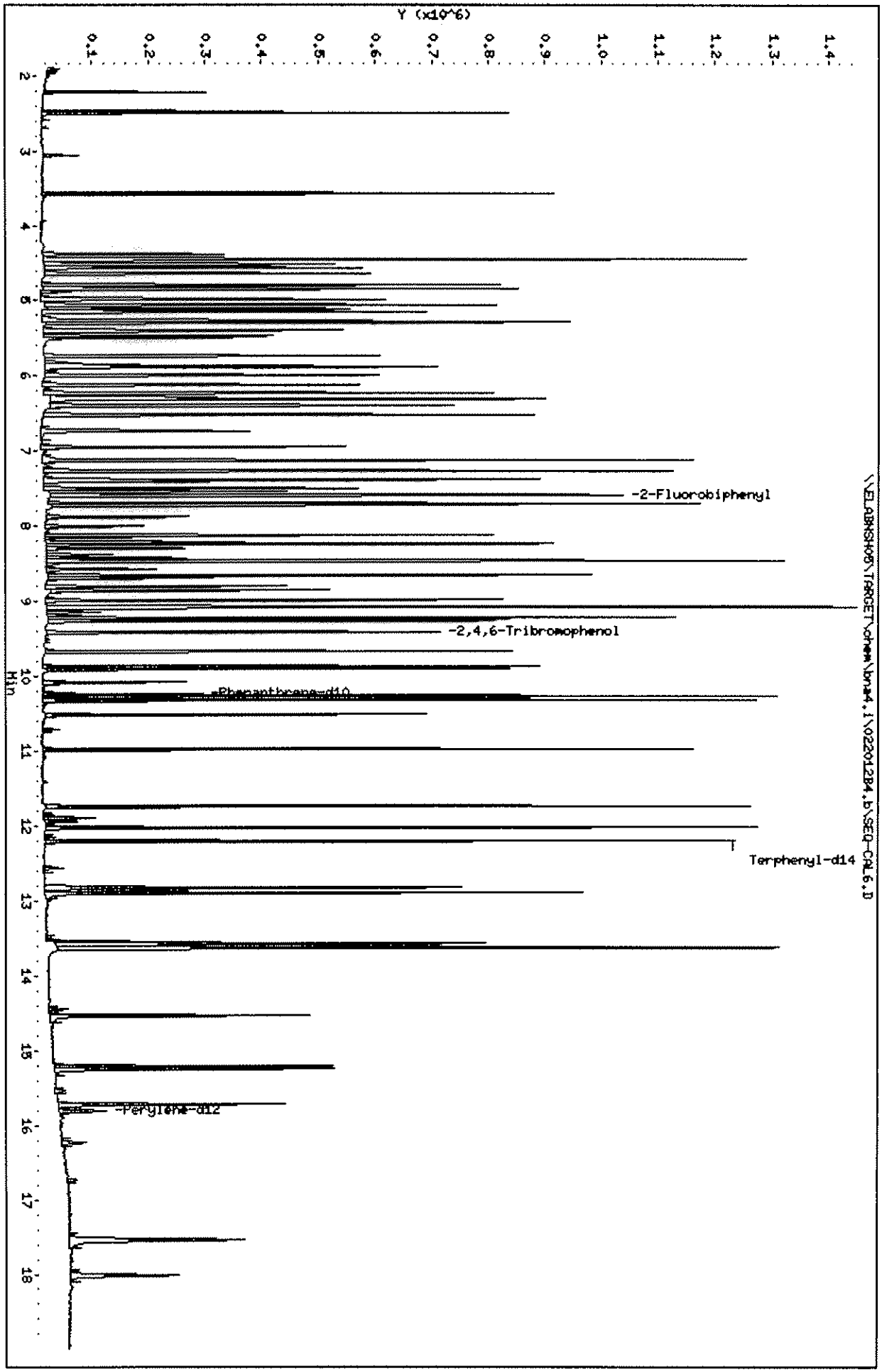
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Date : 20-FEB-2012 18:40
Client ID: SEQ-CAL6
Sample Info: SEQ-CAL6;;;;;;;12B0498
Column phase: fused silica
Instrument: bna4.i
Operator: MEC
Column diameter: 0.25
Y (x10^6)
Min
-2-Fluorobiphenyl
-2,4,6-Tribromophenol
-Phenanthrene-d10
Terphenyl-d14
-Perylene-d12
\\ELABNSHO5\TARGET\chem\bna4.i\022012B4.b\SEQ-CAL6.D

Data File: \\ELABNSH05\TARGET\chem\bna4.i\022012B4.b\SEQ-CAL7.D
Report Date: 21-Feb-2012 10:18

Laboratory Name

Data file : \\ELABNSH05\TARGET\chem\bna4.i\022012B4.b\SEQ-CAL7.D
Lab Smp Id: SEQ-CAL7 Client Smp ID: SEQ-CAL7
Inj Date : 20-FEB-2012 19:15 MS Autotune Date: 15-FEB-2012 09:23
Operator : MEC Inst ID: bna4.i
Smp Info : SEQ-CAL7;;;;;;12B0499
Misc Info : ;1;;;7;;pahlow.sub;
Comment :
Method : \\ELABNSH05\TARGET\chem\bna4.i\022012B4.b\IXBN4LOW.m
Meth Date : 21-Feb-2012 10:18 mcobb Quant Type: ISTD
Cal Date : 20-FEB-2012 19:15 Cal File: SEQ-CAL7.D
Als bottle: 8 Calibration Sample, Level: 7
Dil Factor: 1.00000
Integrator: HP RTE Compound Sublist: pahlow.sub
Target Version: 4.04
Processing Host: TARGET09_VM

Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	AMOUNTS CAL-AMT (ng/ul)	AMOUNTS ON-COL (ng/ul)
51 Naphthalene	128	6.312	6.312	(0.617)	1057664	10.0000	9.419
55 2-Methylnaphthalene	142	7.130	7.130	(0.697)	678594	10.0000	9.276
56 1-Methylnaphthalene	142	7.269	7.269	(0.710)	663416	10.0000	9.362
$ 74 2-Fluorobiphenyl	172	7.594	7.594	(0.742)	845106	10.0000	9.464
77 Acenaphthylene	152	8.245	8.245	(0.806)	1068560	10.0000	10.15
80 Acenaphthene	153	8.468	8.468	(0.827)	675764	10.0000	9.547
88 Fluorene	166	9.082	9.082	(0.887)	753129	10.0000	9.795
* 102 Phenanthrene-d10	188	10.235	10.235	(1.000)	111079	1.00000	
111 Phenanthrene	178	10.272	10.272	(1.004)	1069360	10.0000	9.748
112 Anthracene	178	10.318	10.318	(1.008)	1057940	10.0000	10.00
116 Fluoranthene	202	11.750	11.750	(1.148)	1156406	10.0000	10.26
134 Pyrene	202	12.029	12.029	(1.175)	1214195	10.0000	10.46
* 154 Perylene-d12	264	15.812	15.812	(1.000)	58671	1.00000	
$ 135 Terphenyl-d14	244	12.205	12.205	(1.193)	808018	10.0000	10.52
138 Benzo(a)anthracene	228	13.581	13.581	(1.327)	909495	10.0000	12.41
139 Chrysene	228	13.646	13.646	(1.333)	809391	10.0000	11.05
156 Benzo(b)fluoranthene	252	15.217	15.217	(0.962)	740975	10.0000	10.07
157 Benzo(k)fluoranthene	252	15.255	15.255	(0.965)	710651	10.0000	9.804
158 Benzo(a)pyrene	252	15.719	15.719	(0.994)	572500	10.0000	10.38
159 Indeno(1,2,3-cd)pyrene	276	17.542	17.542	(1.109)	495763	10.0000	11.31
160 Dibenz(a,h)anthracene	278	17.551	17.551	(1.110)	394939	10.0000	11.32
161 Benzo(g,h,i)perylene	276	18.025	18.025	(1.140)	432296	10.0000	10.95

MEC
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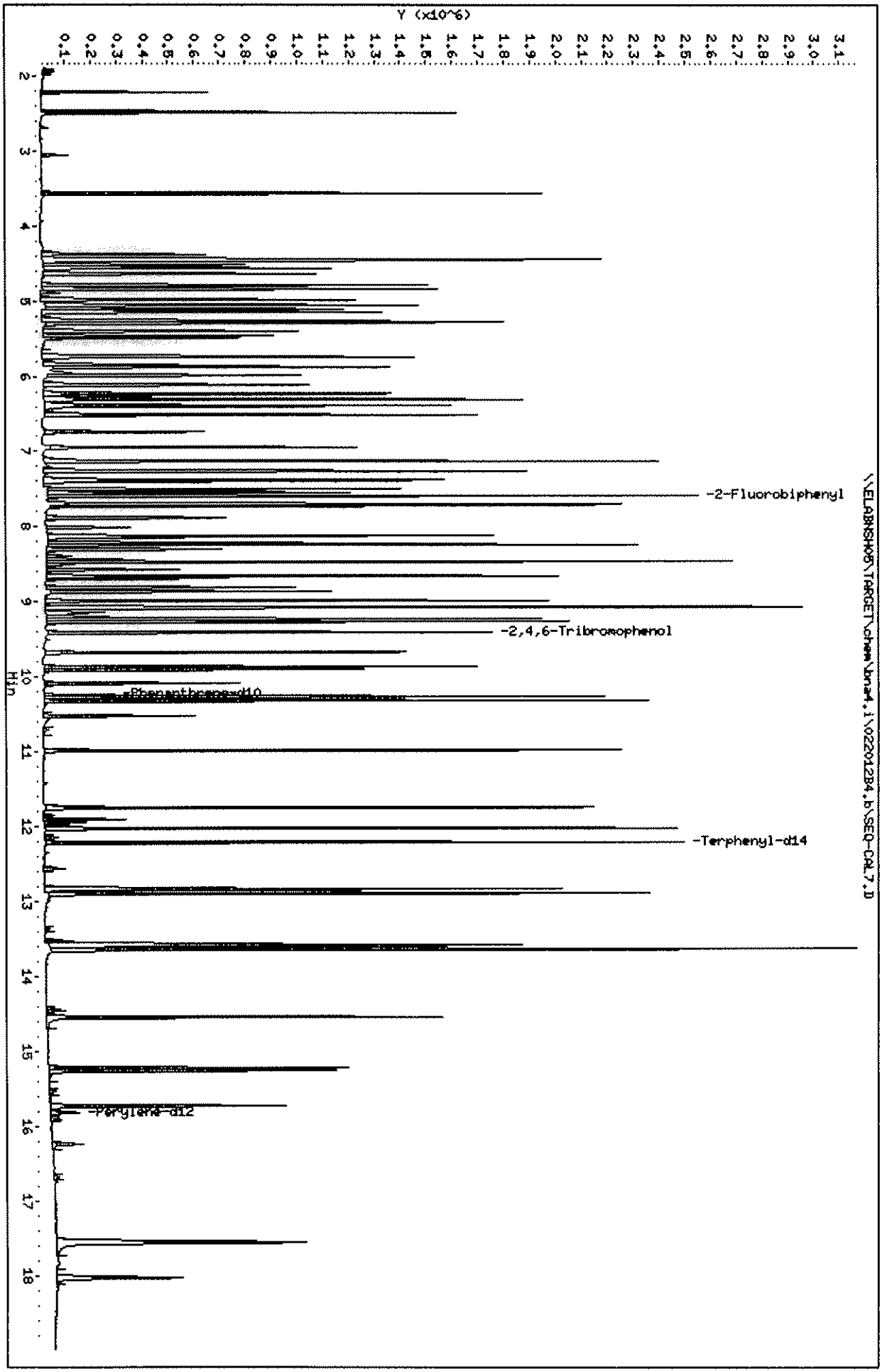
Data File: \\ELABNSH05\TARGET\chem\bna4.i\022012B4.b\SEQ-CAL7.D
Date : 20-FEB-2012 19:15
Client ID: SEQ-CAL7
Sample Info: SEQ-CAL7;;;;;;;12B0499
Column phase: fused silica

Instrument: bna4.i
Operator: HEC
Column diameter: 0.25



Data File: \\ELABNSH05\TARGET\chem\bna4.i\022012B4.b\SEQ-CAL8.D
Report Date: 21-Feb-2012 10:18

Laboratory Name

Data file : \\ELABNSH05\TARGET\chem\bna4.i\022012B4.b\SEQ-CAL8.D
Lab Smp Id: SEQ-CAL8 Client Smp ID: SEQ-CAL8
Inj Date : 20-FEB-2012 19:40 MS Autotune Date: 15-FEB-2012 09:23
Operator : MEC Inst ID: bna4.i
Smp Info : SEQ-CAL8;;;;;;12B0500
Misc Info : ;1;;;8;;pahlow.sub;
Comment :
Method : \\ELABNSH05\TARGET\chem\bna4.i\022012B4.b\IXBN4LOW.m
Meth Date : 21-Feb-2012 10:18 mcobb Quant Type: ISTD
Cal Date : 20-FEB-2012 19:40 Cal File: SEQ-CAL8.D
Als bottle: 9 Calibration Sample, Level: 8
Dil Factor: 1.00000
Integrator: HP RTE Compound Sublist: pahlow.sub
Target Version: 4.04
Processing Host: TARGET09_VM

Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	AMOUNTS CAL-AMT (ng/ul)	AMOUNTS ON-COL (ng/ul)
51 Naphthalene	128	6.311	6.311	(0.617)	2000563	20.0000	18.08
55 2-Methylnaphthalene	142	7.130	7.130	(0.697)	1283652	20.0000	17.81
56 1-Methylnaphthalene	142	7.269	7.269	(0.710)	1232764	20.0000	17.66
$ 74 2-Fluorobiphenyl	172	7.594	7.594	(0.742)	1618224	20.0000	18.39
77 Acenaphthylene	152	8.245	8.245	(0.806)	2037880	20.0000	19.64
80 Acenaphthene	153	8.468	8.468	(0.827)	1321709	20.0000	18.95
88 Fluorene	166	9.091	9.091	(0.888)	1483050	20.0000	19.58
* 102 Phenanthrene-d10	188	10.235	10.235	(1.000)	109439	1.00000	
111 Phenanthrene	178	10.272	10.272	(1.004)	2124280	20.0000	19.66
112 Anthracene	178	10.327	10.327	(1.009)	2127015	20.0000	20.41
116 Fluoranthene	202	11.750	11.750	(1.148)	2362184	20.0000	21.27
134 Pyrene	202	12.029	12.029	(1.175)	2417159	20.0000	21.13
* 154 Perylene-d12	264	15.812	15.812	(1.000)	58638	1.00000	
$ 135 Terphenyl-d14	244	12.205	12.205	(1.193)	1620936	20.0000	21.43
138 Benzo(a)anthracene	228	13.581	13.581	(1.327)	1863347	20.0000	25.81
139 Chrysene	228	13.646	13.646	(1.333)	1661192	20.0000	23.02
156 Benzo(b)fluoranthene	252	15.217	15.217	(0.962)	1475348	20.0000	20.06
157 Benzo(k)fluoranthene	252	15.255	15.255	(0.965)	1522275	20.0000	21.01
158 Benzo(a)pyrene	252	15.729	15.729	(0.995)	1171002	20.0000	21.25
159 Indeno(1,2,3-cd)pyrene	276	17.541	17.541	(1.109)	994811	20.0000	22.71
160 Dibenz(a,h)anthracene	278	17.551	17.551	(1.110)	801283	20.0000	22.98
161 Benzo(g,h,i)perylene	276	18.034	18.034	(1.141)	841158	20.0000	21.32

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MEC
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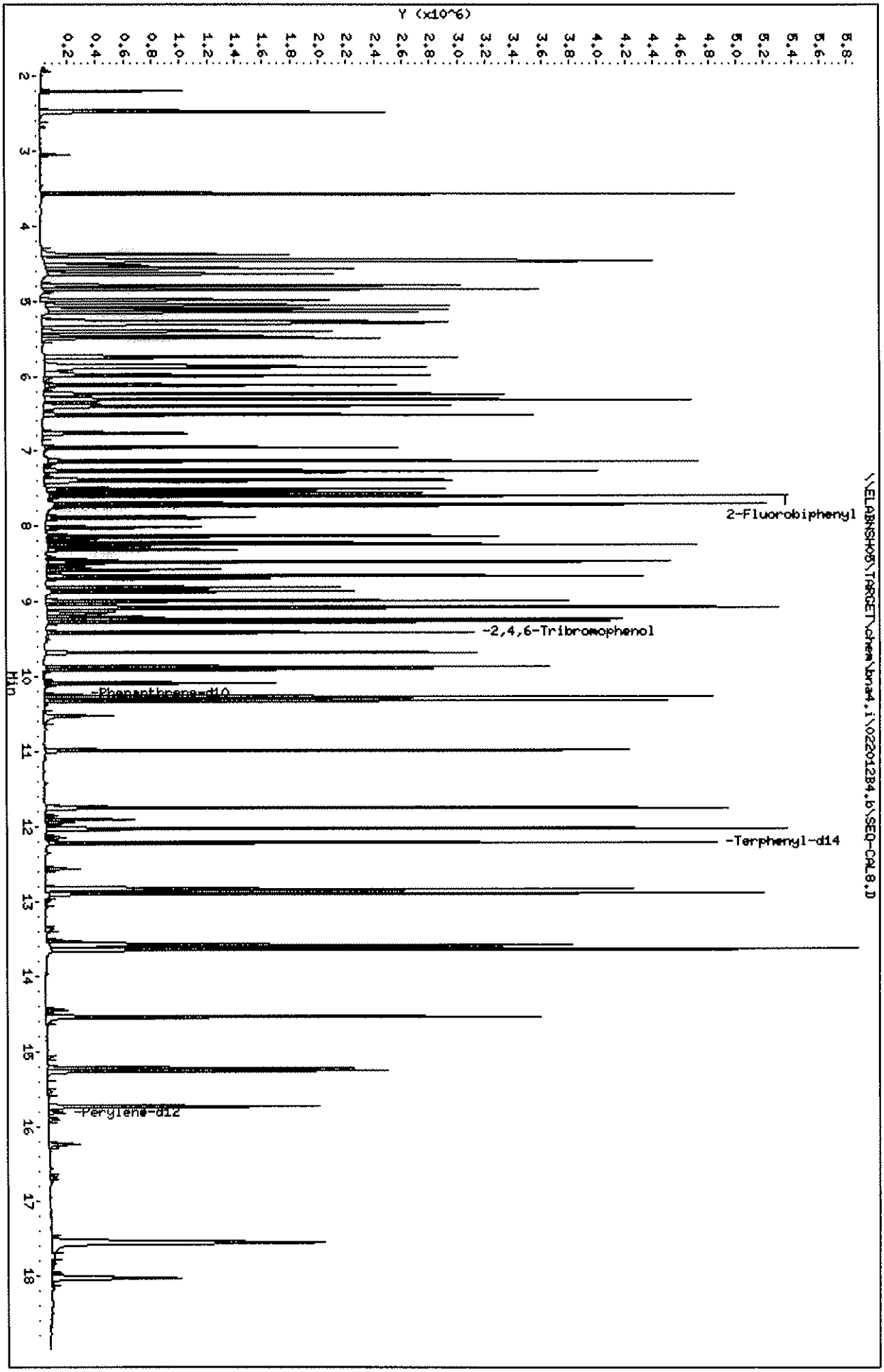
Data File: \\ELABNSHO8\TARGET\chem\bna4.i\022012B4.b\SEQ-CAL8.D
Date : 20-FEB-2012 19:40
Client ID: SEQ-CAL8
Sample Info: SEQ-CAL8;;;;;;12B0500
Column phase: fused silica

Instrument: bna4.i
Operator: HEC
Column diameter: 0.25



Data File: \\ELABNSH05\TARGET\chem\bna4.i\022012B4.b\SEQ-CAL9.D
Report Date: 21-Feb-2012 10:18

Laboratory Name

Data file : \\ELABNSH05\TARGET\chem\bna4.i\022012B4.b\SEQ-CAL9.D
Lab Smp Id: SEQ-CAL9 Client Smp ID: SEQ-CAL9
Inj Date : 20-FEB-2012 20:06 MS Autotune Date: 15-FEB-2012 09:23
Operator : MEC Inst ID: bna4.i
Smp Info : SEQ-CAL9;;;;;;12B0501
Misc Info : ;1;;;9;;pahlow.sub;
Comment :
Method : \\ELABNSH05\TARGET\chem\bna4.i\022012B4.b\IXBN4LOW.m
Meth Date : 21-Feb-2012 10:18 mcobb Quant Type: ISTD
Cal Date : 20-FEB-2012 20:06 Cal File: SEQ-CAL9.D
Als bottle: 10 Calibration Sample, Level: 9
Dil Factor: 1.00000
Integrator: HP RTE Compound Sublist: pahlow.sub
Target Version: 4.04
Processing Host: TARGET09_VM

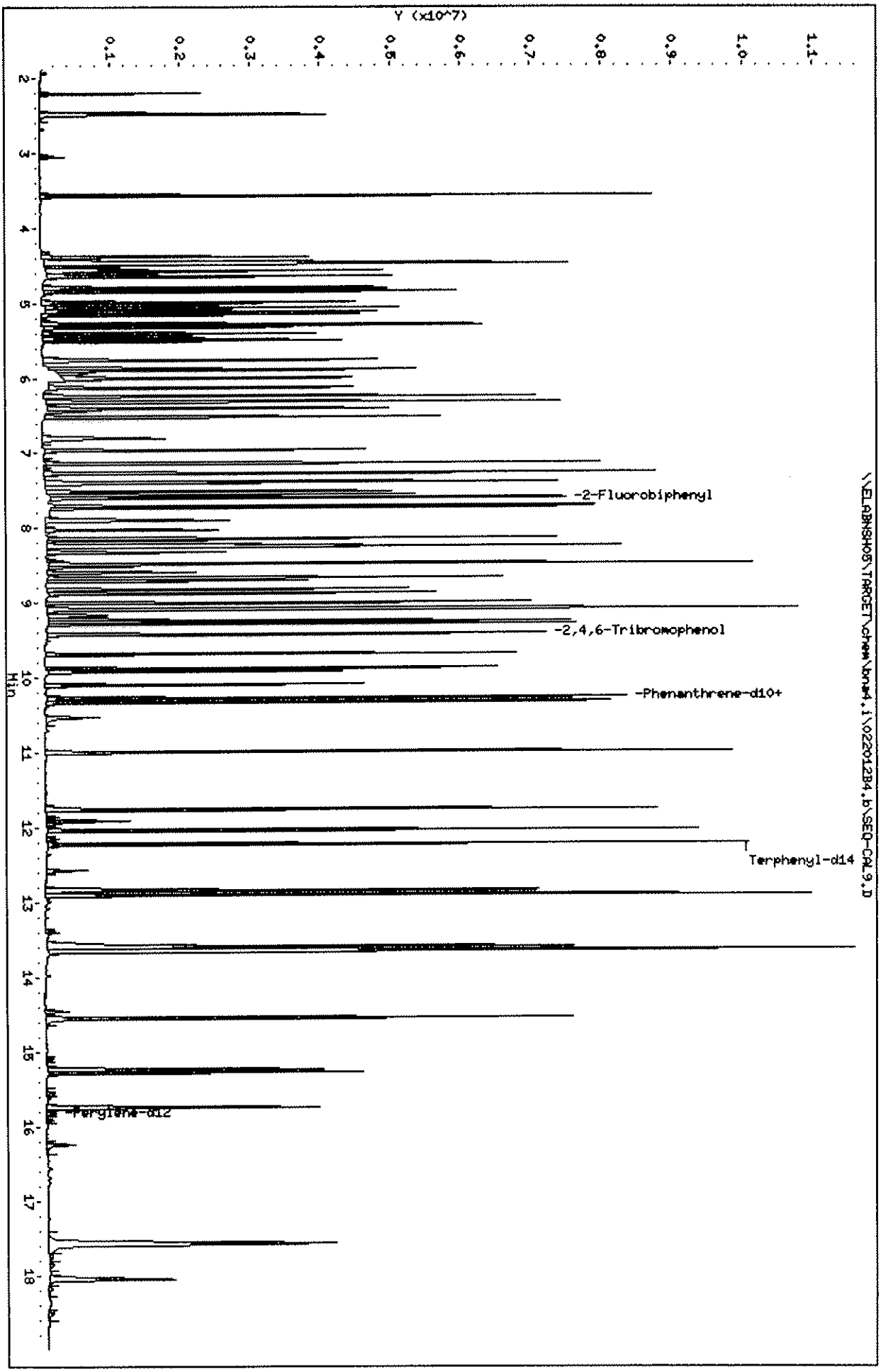
Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	AMOUNTS CAL-AMT (ng/ul)	AMOUNTS ON-COL (ng/ul)
51 Naphthalene	128	6.311	6.311	(1.000)	3893327	40.0000	33.86
55 2-Methylnaphthalene	142	7.139	7.139	(1.000)	2650535	40.0000	35.38
56 1-Methylnaphthalene	142	7.269	7.269	(1.000)	2386982	40.0000	32.90
$ 74 2-Fluorobiphenyl	172	7.604	7.604	(1.000)	3218299	40.0000	35.20
77 Acenaphthylene	152	8.254	8.254	(1.000)	4085343	40.0000	37.89
80 Acenaphthene	153	8.477	8.477	(1.000)	2590585	40.0000	35.74
88 Fluorene	166	9.091	9.091	(1.000)	2951840	40.0000	37.49
* 102 Phenanthrene-d10	188	10.244	10.244	(1.000)	113734	1.00000	(M)
111 Phenanthrene	178	10.272	10.272	(1.000)	4283608	40.0000	38.14
112 Anthracene	178	10.337	10.337	(1.000)	4369634	40.0000	40.35
116 Fluoranthene	202	11.750	11.750	(1.000)	4862905	40.0000	42.14
134 Pyrene	202	12.038	12.038	(1.000)	4956104	40.0000	41.69
* 154 Perylene-d12	264	15.812	15.812	(1.000)	60648	1.00000	
$ 135 Terphenyl-d14	244	12.215	12.215	(1.000)	3303969	40.0000	42.03
138 Benzo(a)anthracene	228	13.590	13.590	(1.000)	3940837	40.0000	52.52(A)
139 Chrysene	228	13.656	13.656	(1.000)	3388338	40.0000	45.17
156 Benzo(b)fluoranthene	252	15.227	15.227	(0.963)	3038337	40.0000	39.95(M)
157 Benzo(k)fluoranthene	252	15.273	15.273	(0.966)	3108654	40.0000	41.49
158 Benzo(a)pyrene	252	15.738	15.738	(0.995)	2383020	40.0000	41.80
159 Indeno(1,2,3-cd)pyrene	276	17.560	17.560	(1.111)	2079899	40.0000	45.92
160 Dibenz(a,h)anthracene	278	17.569	17.569	(1.111)	1669638	40.0000	46.30
161 Benzo(g,h,i)perylene	276	18.053	18.053	(1.142)	1725427	40.0000	42.29

LD 2/23/12 MEC 2/21/12

Data File: \\ELABNSH05\TARGET\chem\bna4.i\022012B4.b\SEQ-CAL9.D
Report Date: 21-Feb-2012 10:18

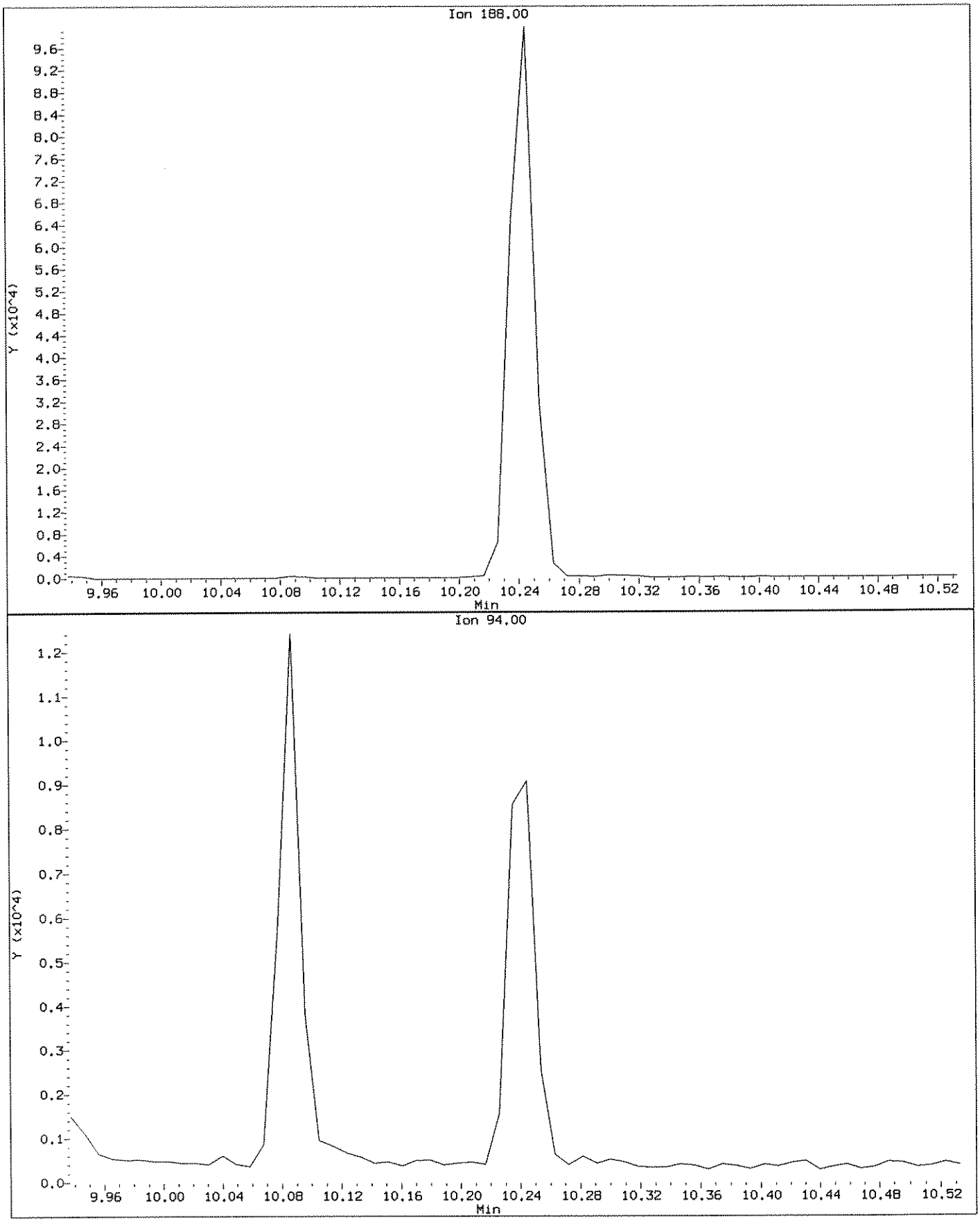
QC Flag Legend

A - Target compound detected but, quantitated amount exceeded maximum amount.
M - Compound response manually integrated.


Data File: \\ELABNSH05\TARGET\chem\bna4.i\022012B4.b\SEQ-CAL9.D
Date : 20-FEB-2012 20:06
Client ID: SEQ-CAL9
Sample Info: SEQ-CAL9;;;;;;12B0501
Column phase: fused silica
Instrument: bna4.i
Operator: HEC
Column diameter: 0.25
\\ELABNSH05\TARGET\chem\bna4.i\022012B4.b\SEQ-CAL9.D
Y (x10^7)
-2-Fluorobiphenyl
-2,4,6-Tribromophenol
-Phenanthrene-d10+
Terphenyl-d14
-Perylene-d12
Min

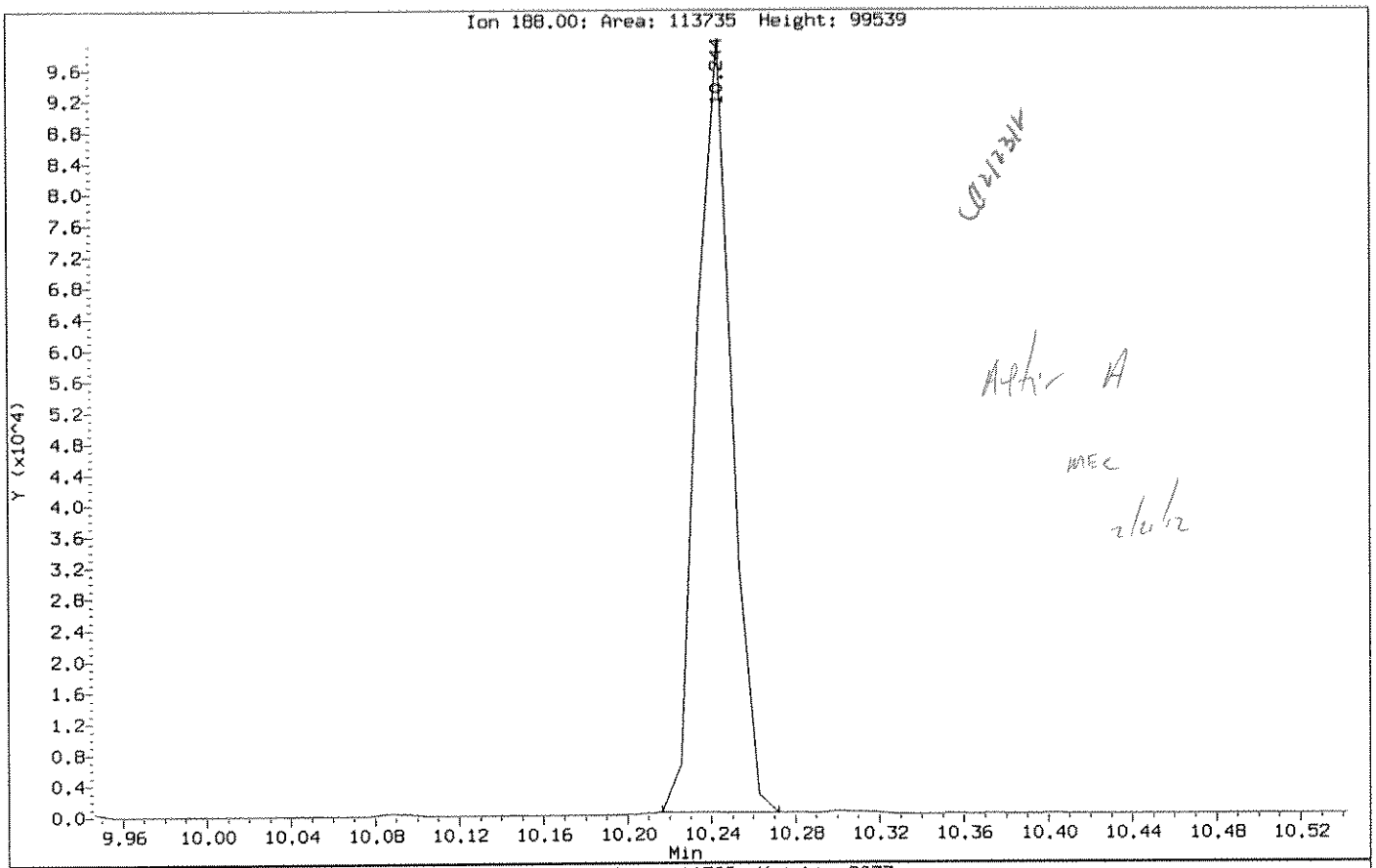
Data File: \\ELABNSHO5\TARGET\chem\bna4.i\022012B4.b\SEQ-CAL9.D
Injection Date: 20-FEB-2012 20:06
Instrument: bna4.i
Client Sample ID: SEQ-CAL9

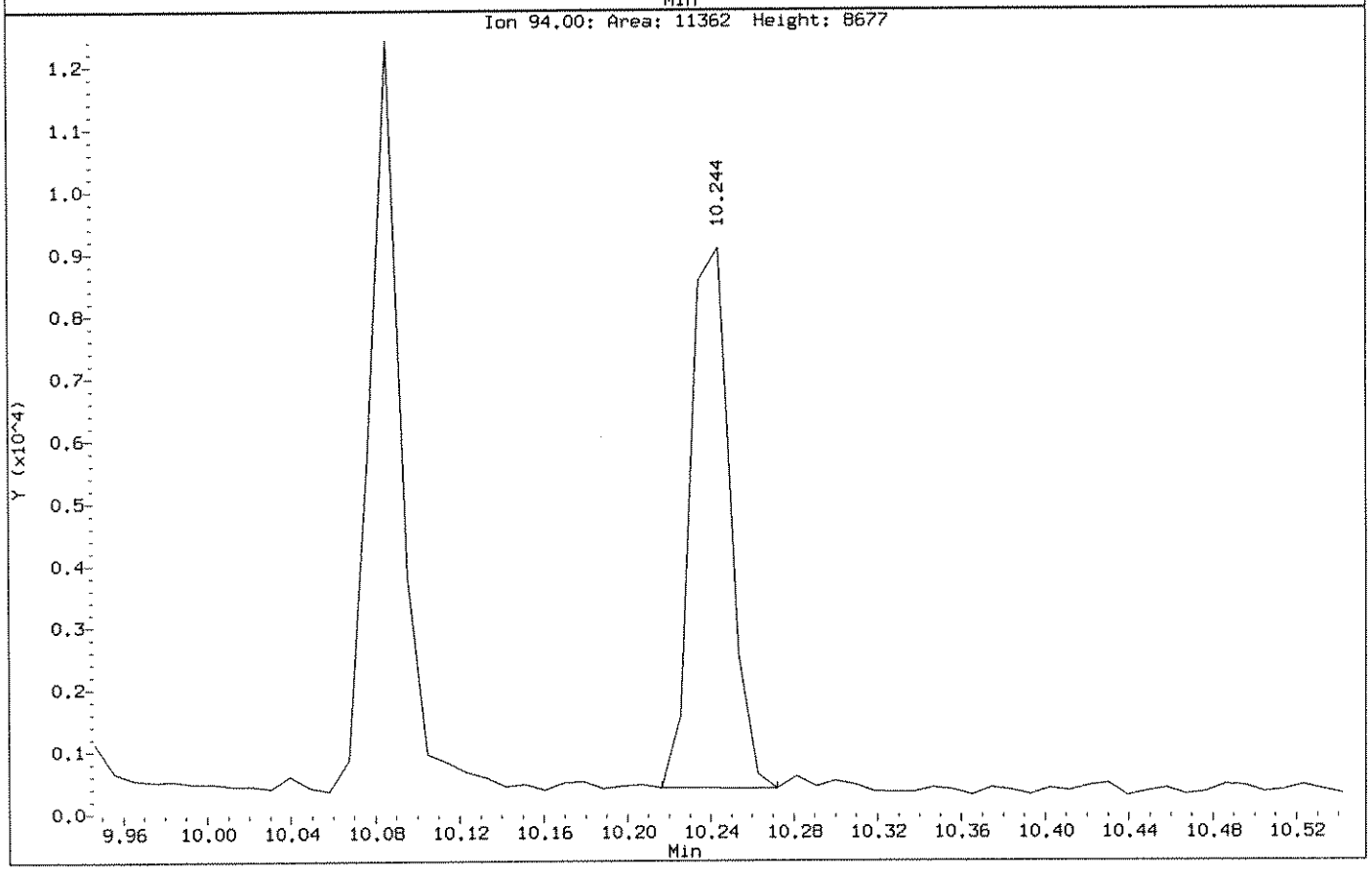
Compound: Phenanthrene-d10
CAS Number: 1517-22-2



Data File: \\ELABNSHO5\TARGET\chem\bna4.i\022012B4.b\SEQ-CAL9.D
Injection Date: 20-FEB-2012 20:06
Instrument: bna4.i
Client Sample ID: SEQ-CAL9

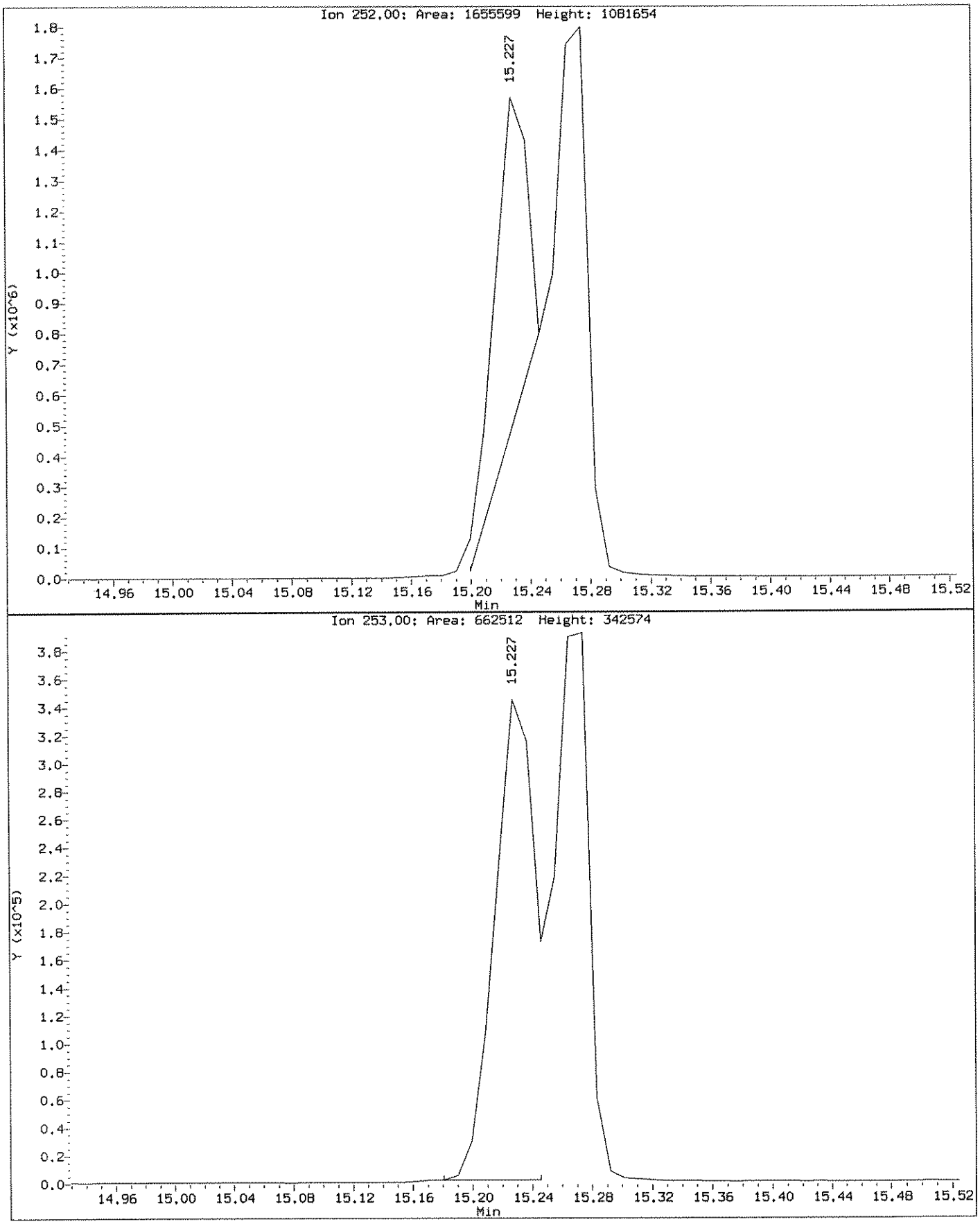
Compound: Phenanthrene-d10
CAS Number: 1517-22-2





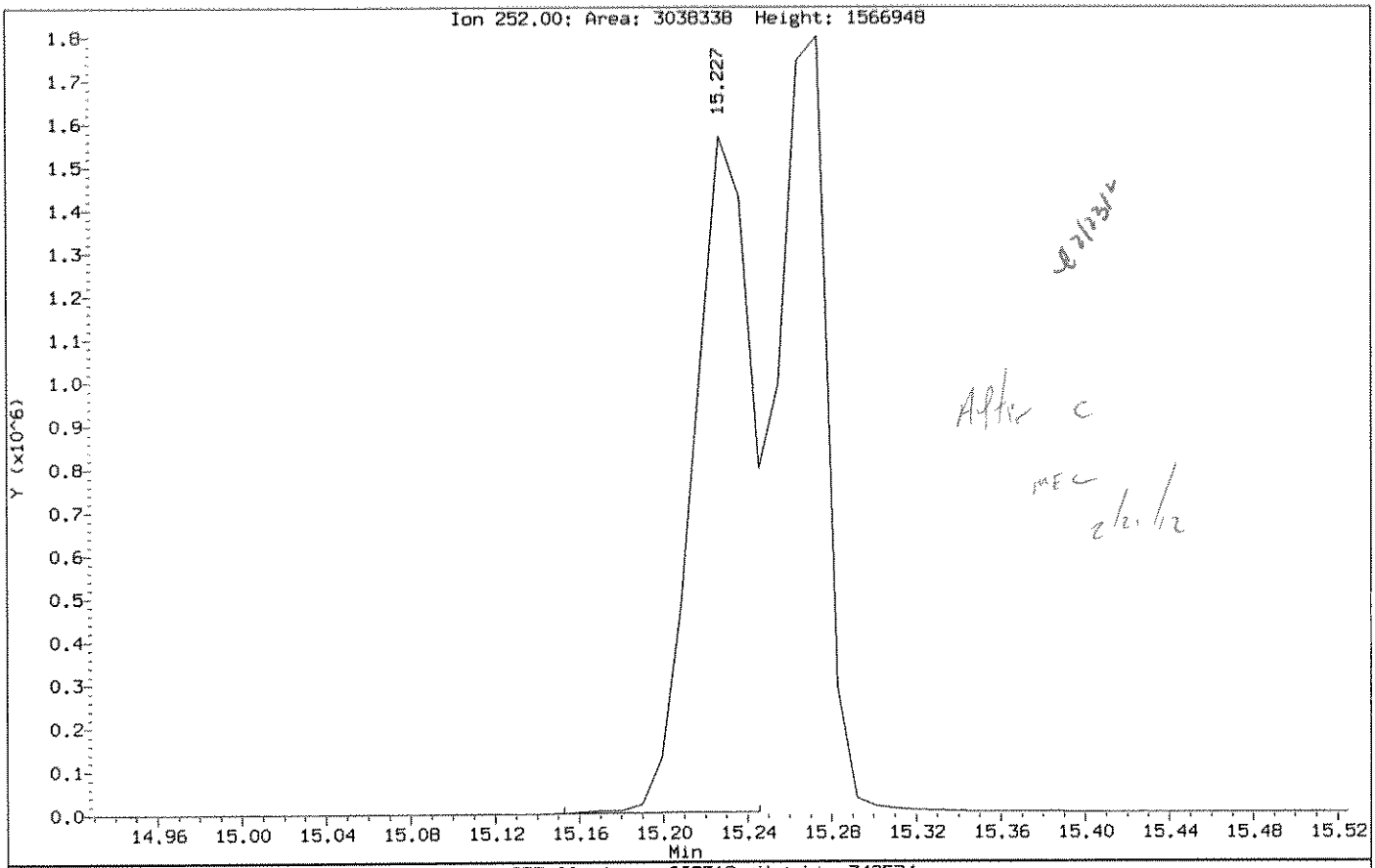
Data File: \\ELABNSHO5\TARGET\chem\bna4.i\022012B4.b\SEQ-CAL9.D
Injection Date: 20-FEB-2012 20:06
Instrument: bna4.i
Client Sample ID: SEQ-CAL9

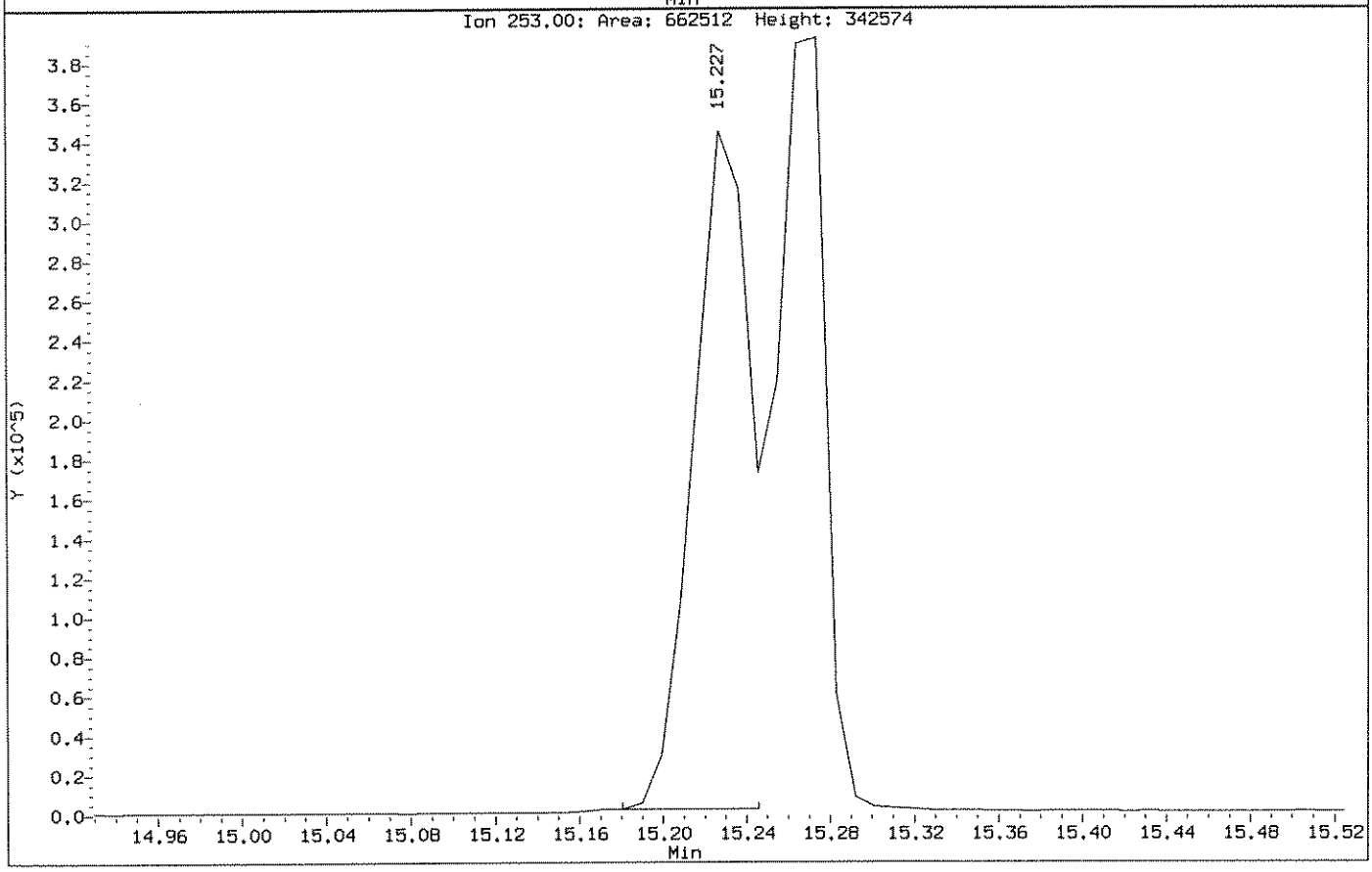
Compound: Benzo(b)fluoranthene
CAS Number: 205-99-2



Data File: \\ELABNSHO5\TARGET\chem\bna4.i\022012B4.b\SEQ-CAL9.D
Injection Date: 20-FEB-2012 20:06
Instrument: bna4.i
Client Sample ID: SEQ-CAL9

Compound: Benzo(b)fluoranthene
CAS Number: 205-99-2





Data File: \\ELABNSH05\TARGET\chem\bna4.i\022012B4.b\SEQ-CALA.D
Report Date: 21-Feb-2012 10:18

Laboratory Name

Data file : \\ELABNSH05\TARGET\chem\bna4.i\022012B4.b\SEQ-CALA.D
Lab Smp Id: SEQ-CALA
Client Smp ID: SEQ-CALA
Inj Date : 20-FEB-2012 20:32
MS Autotune Date: 15-FEB-2012 09:23
Operator : MEC
Inst ID: bna4.i
Smp Info : SEQ-CALA;;;;;;12B0502
Misc Info : ;1;;;10;;pahlow.sub;
Comment :
Method : \\ELABNSH05\TARGET\chem\bna4.i\022012B4.b\IXBN4LOW.m
Meth Date : 21-Feb-2012 10:18 mcobb
Quant Type: ISTD
Cal Date : 20-FEB-2012 20:32
Cal File: SEQ-CALA.D
Als bottle: 11
Calibration Sample, Level: 10
Dil Factor: 1.00000
Integrator: HP RTE
Compound Sublist: pahlow.sub
Target Version: 4.04
Processing Host: TARGET09_VM

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Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	AMOUNTS CAL-AMT (ng/ul)	AMOUNTS ON-COL (ng/ul)
51 Naphthalene	128	6.321	6.321	(1.000)	4546505	50.0000	41.05
55 2-Methylnaphthalene	142	7.139	7.139	(1.000)	3033098	50.0000	42.03
56 1-Methylnaphthalene	142	7.269	7.269	(1.000)	2748993	50.0000	39.32
$ 74 2-Fluorobiphenyl	172	7.604	7.604	(1.000)	3707725	50.0000	42.09
77 Acenaphthylene	152	8.254	8.254	(1.000)	4644859	50.0000	44.72
80 Acenaphthene	153	8.477	8.477	(1.000)	3005221	50.0000	43.04
88 Fluorene	166	9.100	9.100	(1.000)	3413877	50.0000	45.01
* 102 Phenanthrene-d10	188	10.244	10.244	(1.000)	109573	1.00000	(M)
111 Phenanthrene	178	10.281	10.281	(1.000)	4910864	50.0000	45.38
112 Anthracene	178	10.337	10.337	(1.000)	4974174	50.0000	47.68
116 Fluoranthene	202	11.759	11.759	(1.000)	5624494	50.0000	50.59(A)
134 Pyrene	202	12.038	12.038	(1.000)	5543149	50.0000	48.40
* 154 Perylene-d12	264	15.812	15.812	(1.000)	64934	1.00000	
$ 135 Terphenyl-d14	244	12.215	12.215	(1.000)	3733759	50.0000	49.31
138 Benzo(a)anthracene	228	13.590	13.590	(1.000)	4644245	50.0000	64.25(A)
139 Chrysene	228	13.656	13.656	(1.000)	4004211	50.0000	55.41(A)
156 Benzo(b)fluoranthene	252	15.236	15.236	(0.964)	4109877	50.0000	50.48(AM)
157 Benzo(k)fluoranthene	252	15.273	15.273	(0.966)	3394146	50.0000	42.31
158 Benzo(a)pyrene	252	15.747	15.747	(0.996)	2937228	50.0000	48.12
159 Indeno(1,2,3-cd)pyrene	276	17.560	17.560	(1.111)	2589425	50.0000	53.39(A)
160 Dibenz(a,h)anthracene	278	17.579	17.579	(1.112)	2119053	50.0000	54.88(A)
161 Benzo(g,h,i)perylene	276	18.053	18.053	(1.142)	2155867	50.0000	49.35

MEC
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Data File: \\ELABNSH05\TARGET\chem\bna4.i\022012B4.b\SEQ-CALA.D
Report Date: 21-Feb-2012 10:18

QC Flag Legend

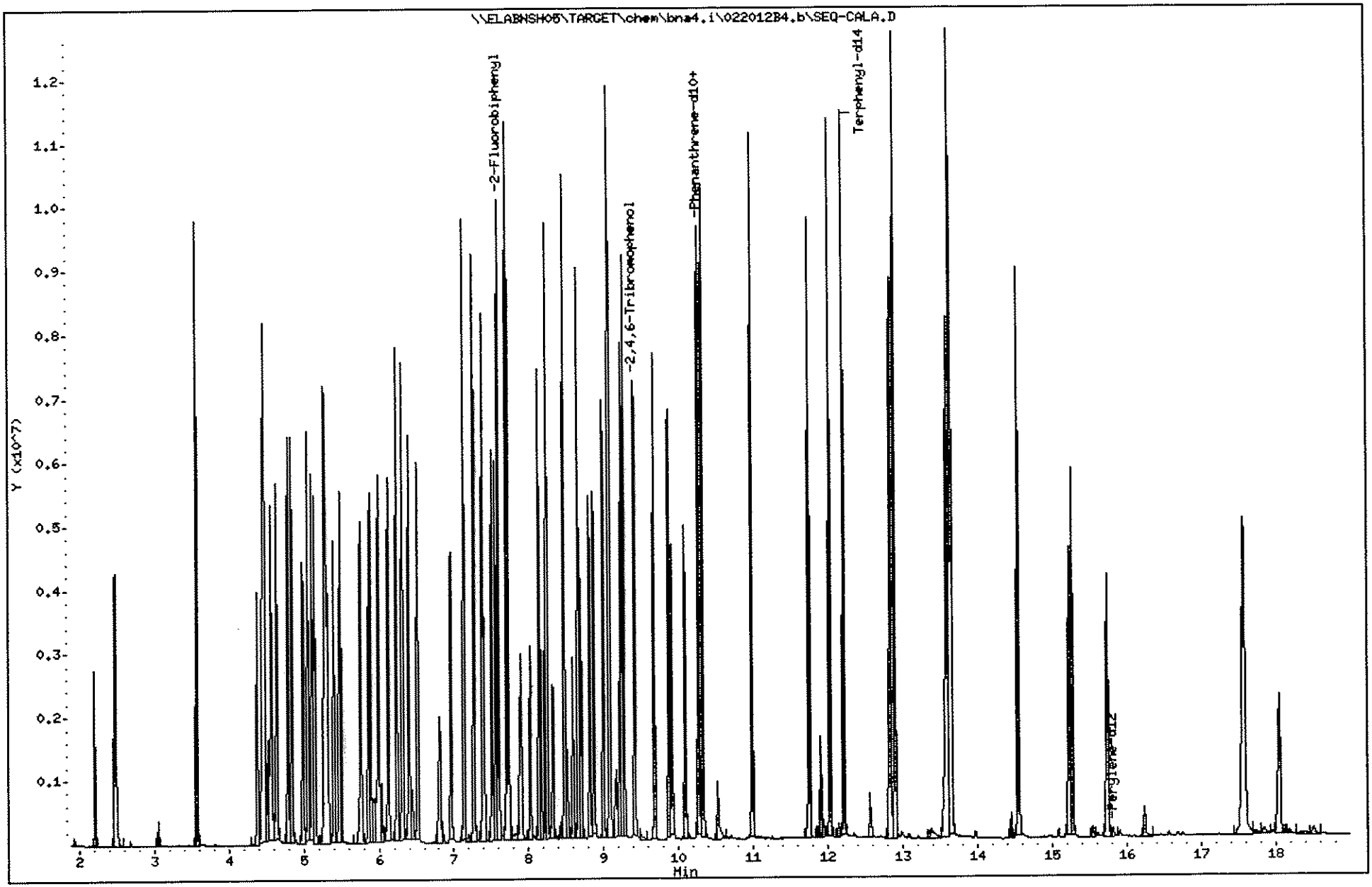
A - Target compound detected but, quantitated amount exceeded maximum amount.
M - Compound response manually integrated.

Data File: \\ELABNSH05\TARGET\chem\bna4.i\022012B4.b\SEQ-CALA.D
Date : 20-FEB-2012 20:32
Client ID: SEQ-CALA
Sample Info: SEQ-CALA;;;;;;12B0502

Column phase: fused silica

Instrument: bna4.i

Operator: MEC
Column diameter: 0.25



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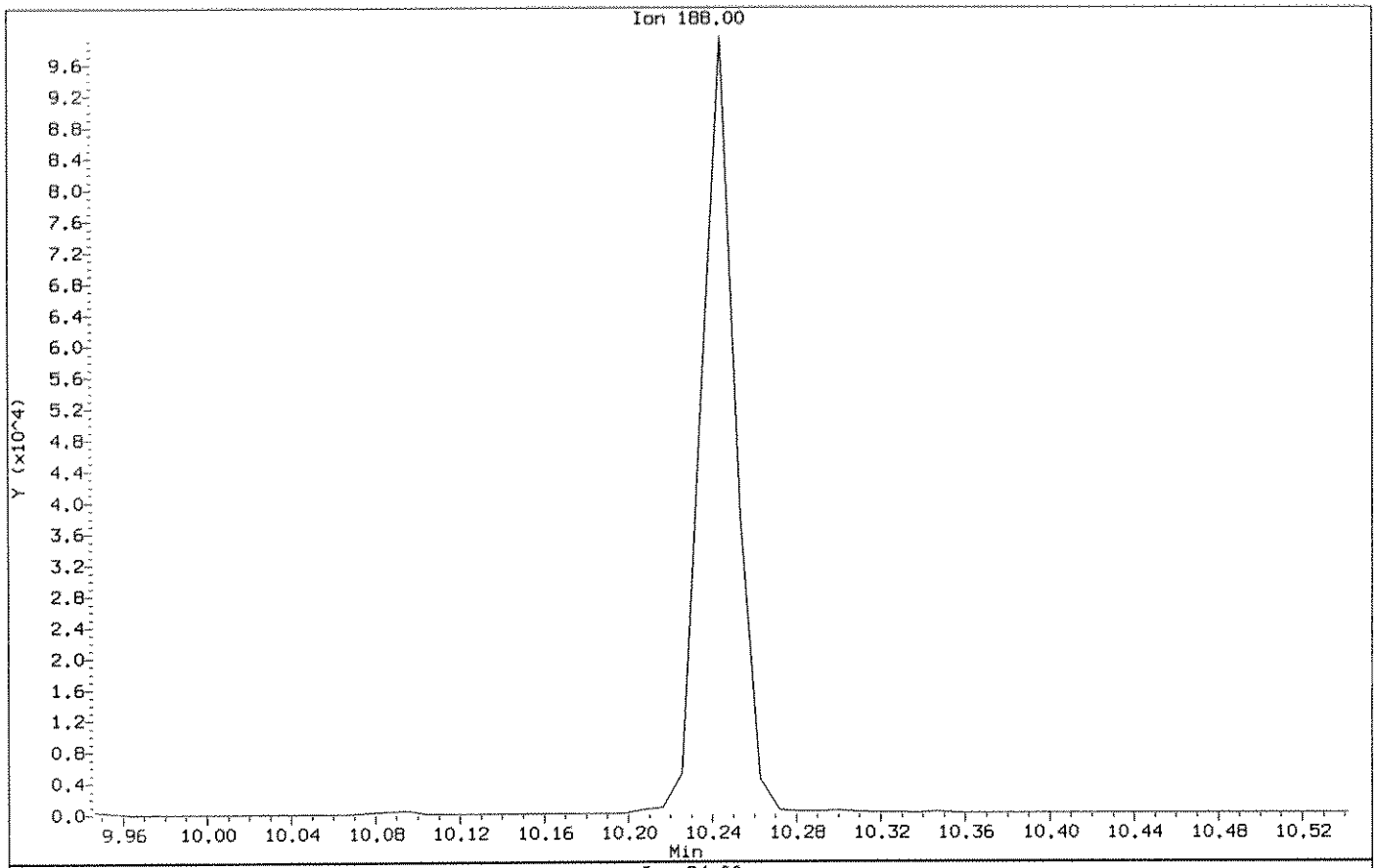
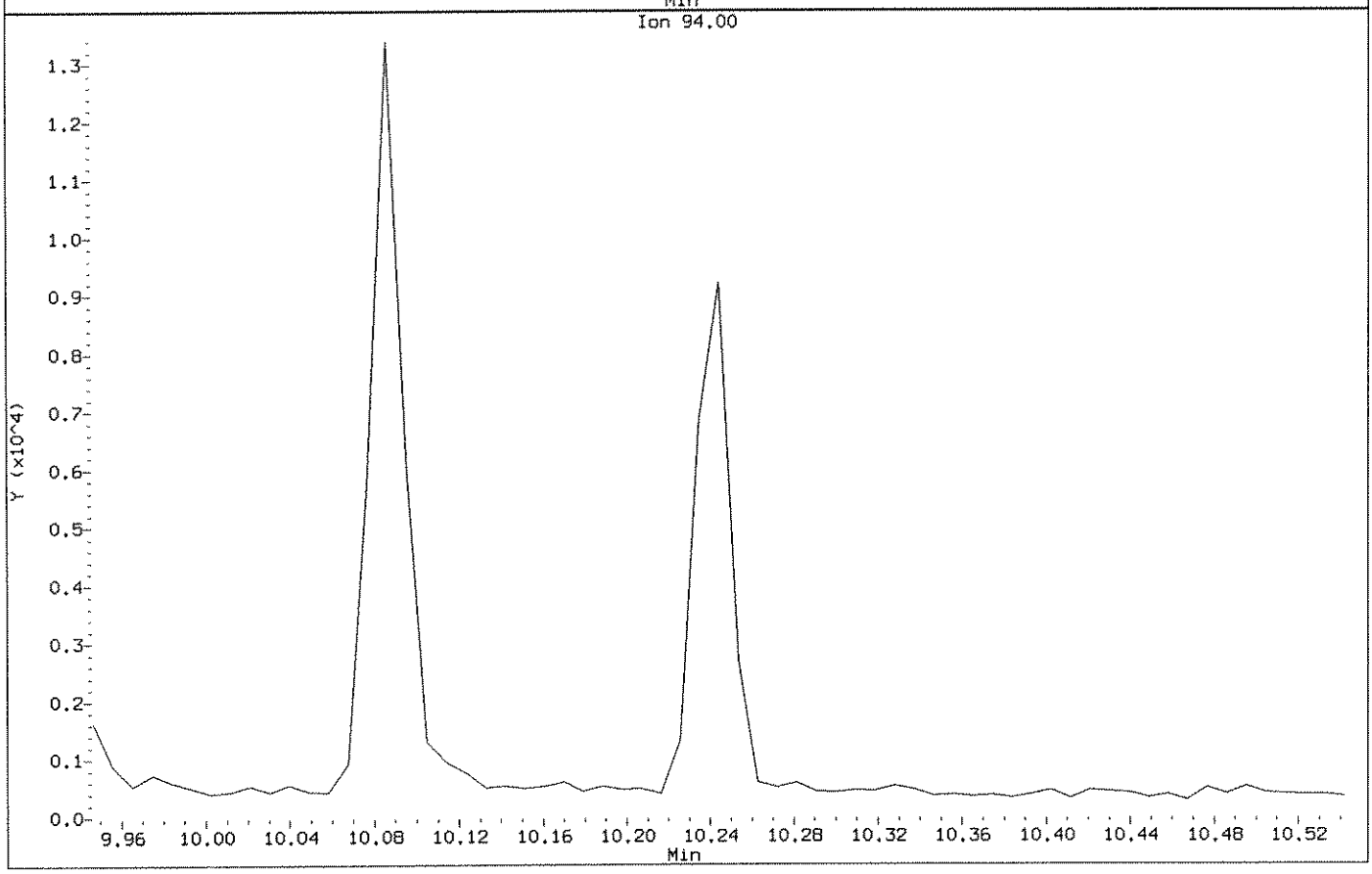
Data File: \\ELABNSHO5\TARGET\chem\bna4.i\022012B4.b\SEQ-CALA.D
Injection Date: 20-FEB-2012 20:32
Instrument: bna4.i
Client Sample ID: SEQ-CALA

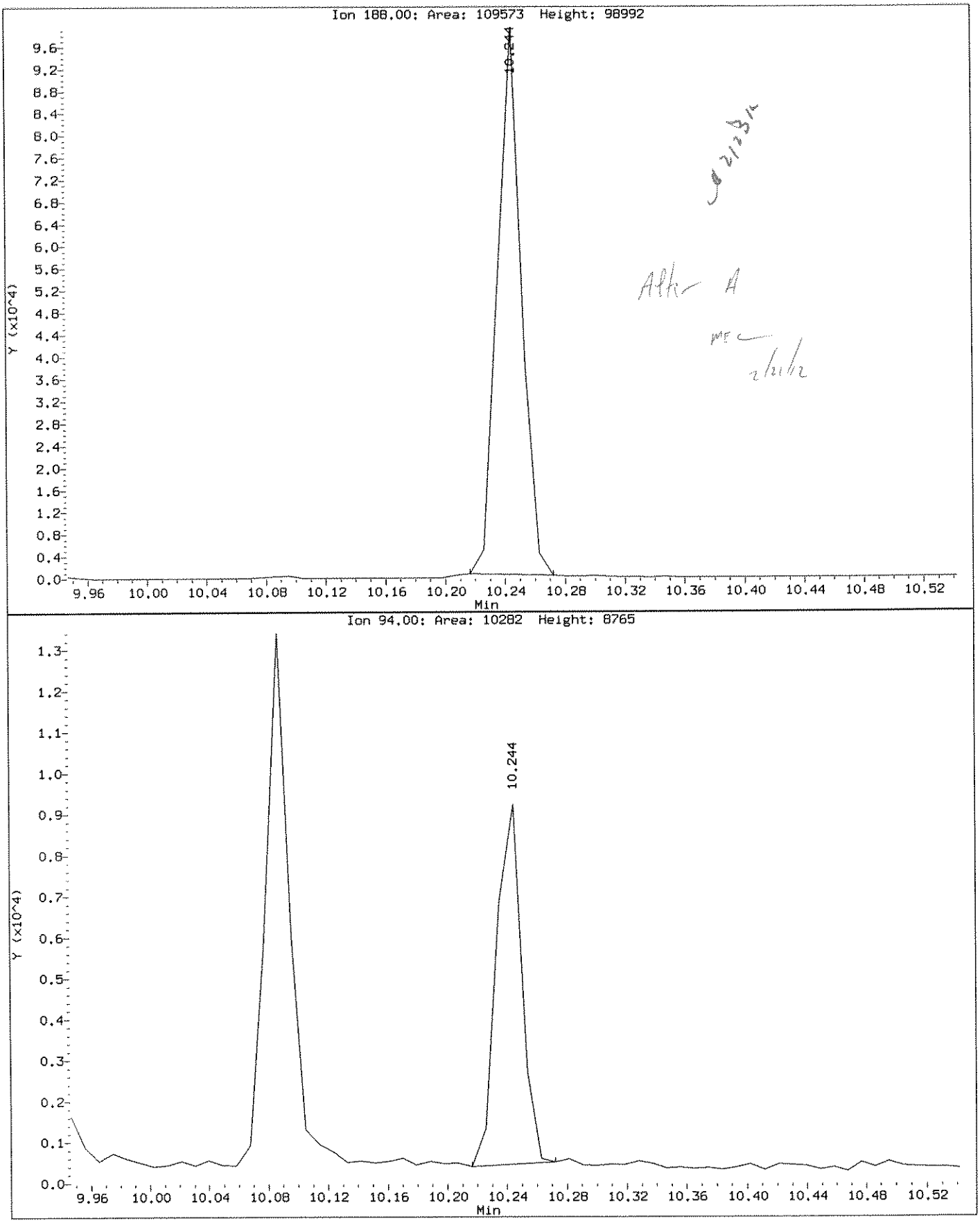
Compound: Phenanthrene-d10
CAS Number: 1517-22-2





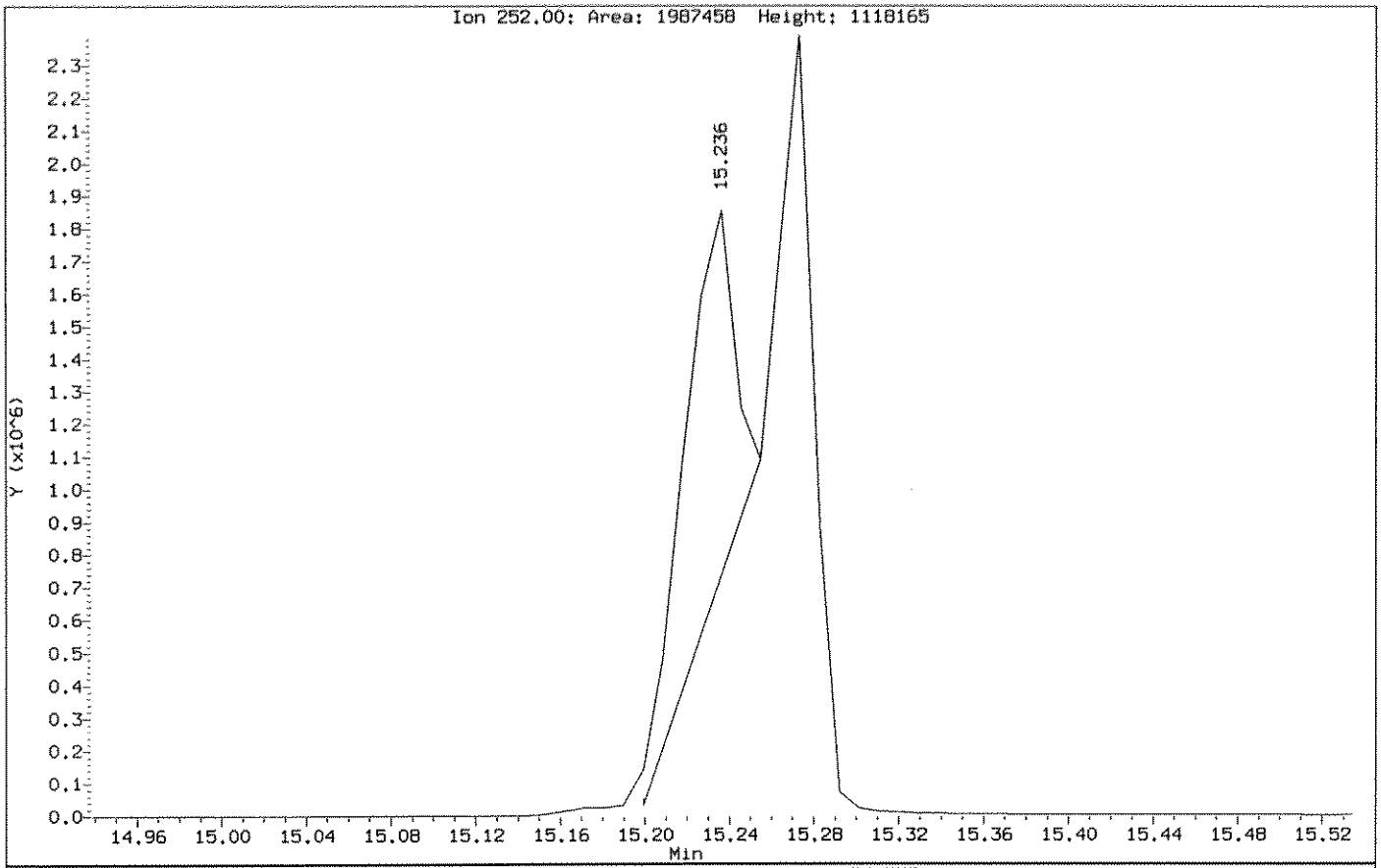
Data File: \\ELABNSHO5\TARGET\chem\bna4.i\022012B4.b\SEQ-CALA.D
Injection Date: 20-FEB-2012 20:32
Instrument: bna4.i
Client Sample ID: SEQ-CALA

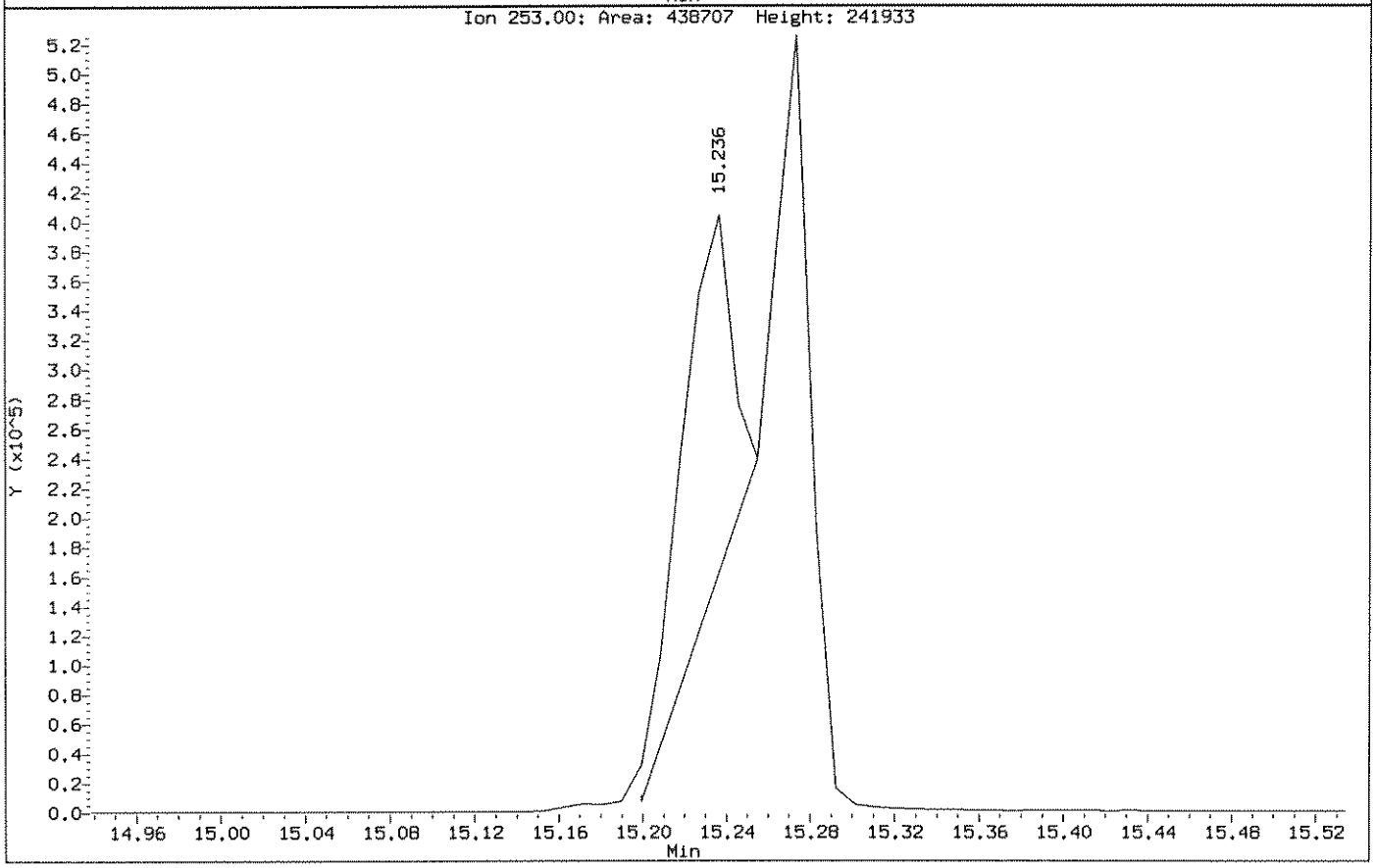
Compound: Phenanthrene-d10
CAS Number: 1517-22-2



Data File: \\ELABNSHO5\TARGET\chem\bna4.i\022012B4.b\SEQ-CALA.D
Injection Date: 20-FEB-2012 20:32
Instrument: bna4.i
Client Sample ID: SEQ-CALA

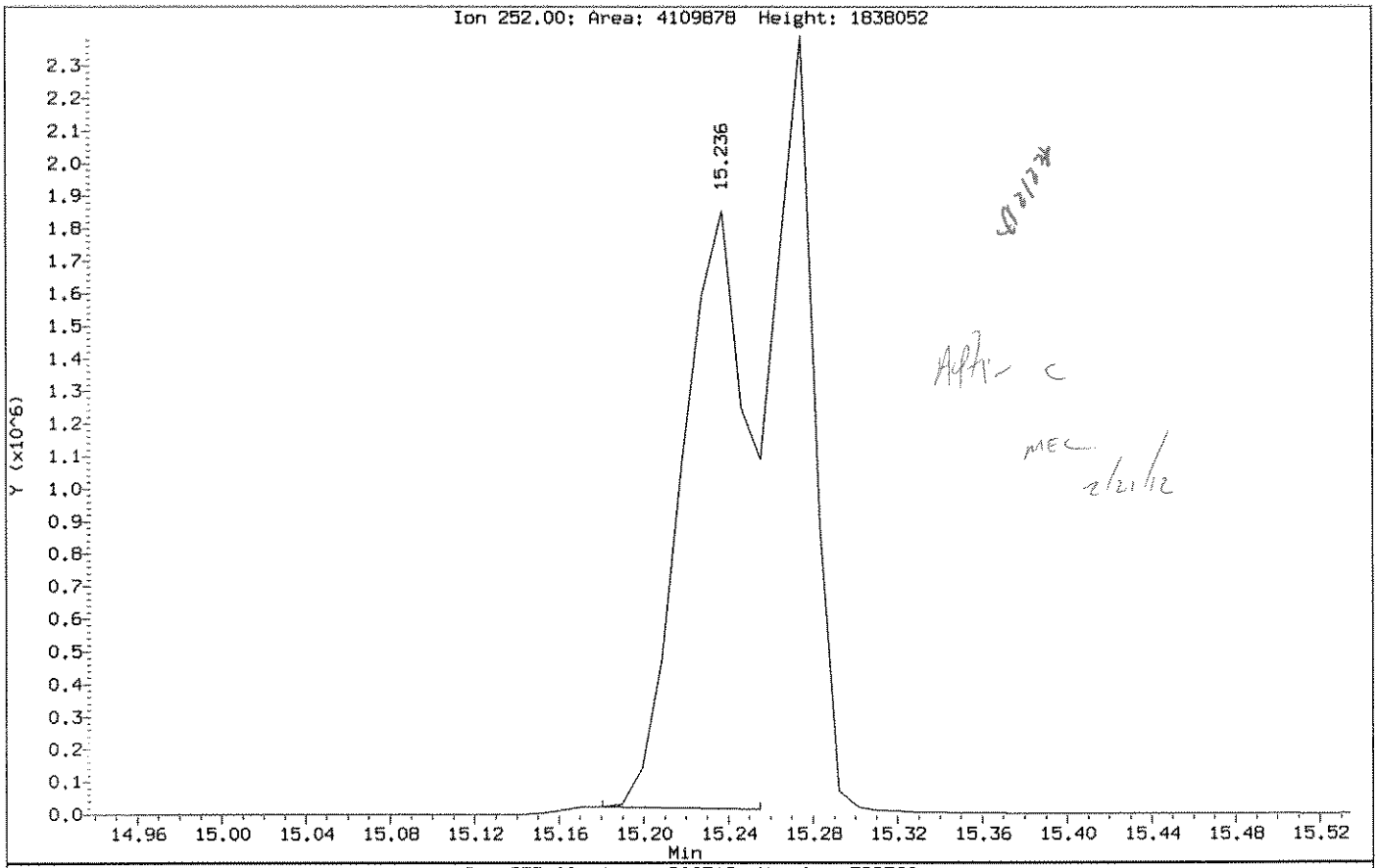
Compound: Benzo(b)fluoranthene
CAS Number: 205-99-2

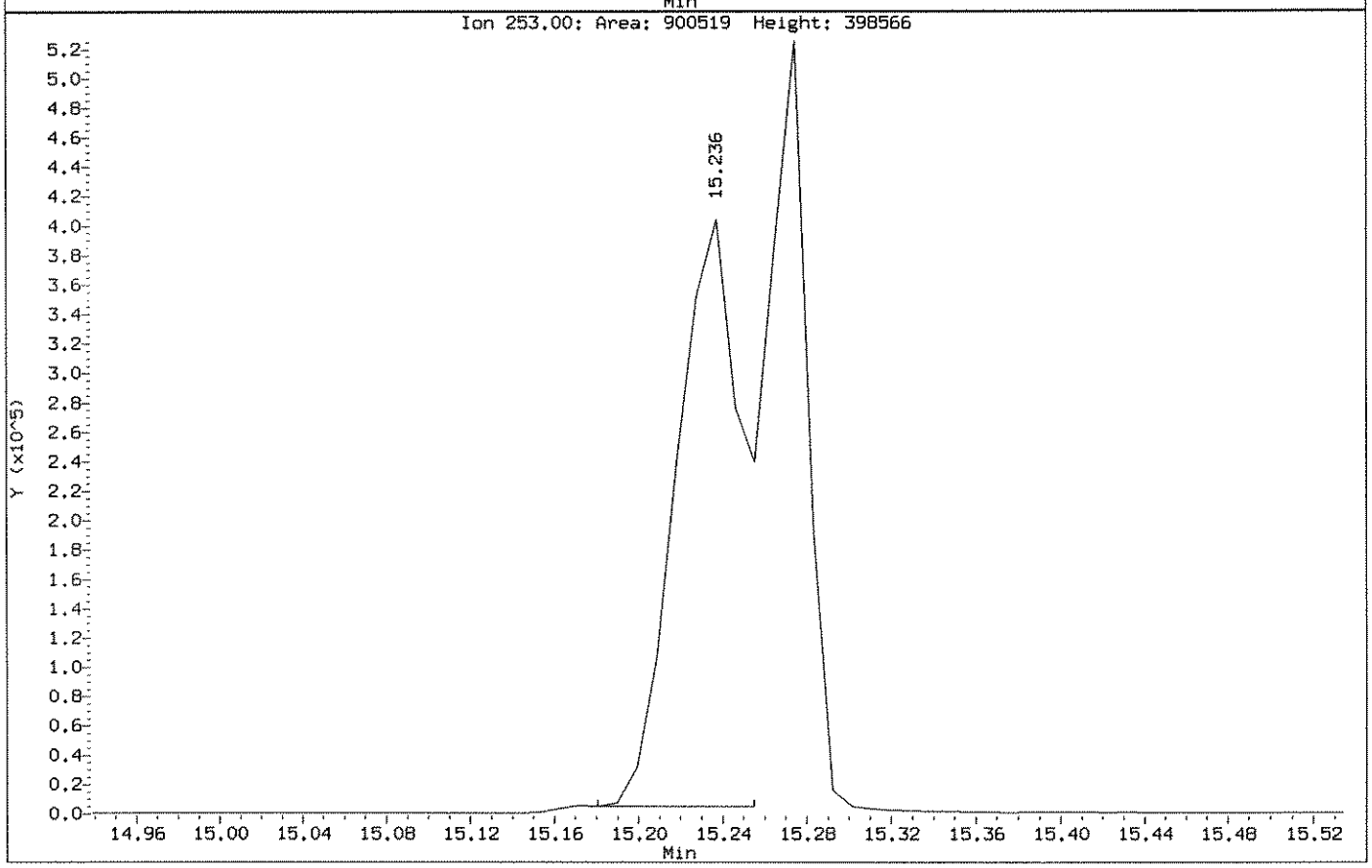




Data File: \\ELABNSHO5\TARGET\chem\bna4.i\022012B4.b\SEQ-CALA.D
Injection Date: 20-FEB-2012 20:32
Instrument: bna4.i
Client Sample ID: SEQ-CALA

Compound: Benzo(b)fluoranthene
CAS Number: 205-99-2





Data File: \\ELABNSH05\TARGET\chem\bna4.i\022112B4.b\SEQ-ICV1.D
Report Date: 21-Feb-2012 13:25

Laboratory Name

Data file : \\ELABNSH05\TARGET\chem\bna4.i\022112B4.b\SEQ-ICV1.D
Lab Smp Id: SEQ-ICV1 Client Smp ID: SEQ-ICV1
Inj Date : 21-FEB-2012 11:00 MS Autotune Date: 15-FEB-2012 09:23
Operator : MEC Inst ID: bna4.i
Smp Info : SEQ-ICV1;;;;;;12B0552
Misc Info : ;0;ICV;;;;pahlow.sub;
Comment :
Method : \\ELABNSH05\TARGET\chem\bna4.i\022112B4.b\IXBN4LOW.m
Meth Date : 21-Feb-2012 13:24 mcobb Quant Type: ISTD
Cal Date : 20-FEB-2012 16:29 Cal File: SEQ-CAL1.D
Als bottle: 2
Dil Factor: 1.00000
Integrator: HP RTE Compound Sublist: pahlow.sub
Target Version: 4.04
Processing Host: TARGET09_VM

Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS ON-COLUMN (ng/ul)	FINAL (ng/ul)
51 Naphthalene	128	6.311	6.303	(0.617)	602344	5.30787	5.308
55 2-Methylnaphthalene	142	7.130	7.130	(0.697)	350482	4.74018	4.740
56 1-Methylnaphthalene	142	7.260	7.260	(0.709)	332073	4.63663	4.637
$ 74 2-Fluorobiphenyl	172	7.594	7.595	(0.742)	395324	4.38022	4.380(R)
77 Acenaphthylene	152	8.245	8.236	(0.806)	508346	4.77681	4.777
80 Acenaphthene	153	8.468	8.468	(0.827)	328101	4.58652	4.586
88 Fluorene	166	9.082	9.082	(0.887)	372411	4.79226	4.792
* 102 Phenanthrene-d10	188	10.235	10.235	(1.000)	112262	1.00000	
111 Phenanthrene	178	10.262	10.263	(1.003)	543985	4.90671	4.907
112 Anthracene	178	10.318	10.319	(1.008)	525707	4.91824	4.918
116 Fluoranthene	202	11.741	11.741	(1.147)	572620	5.02705	5.027
134 Pyrene	202	12.019	12.020	(1.174)	579350	4.93755	4.938
* 154 Perylene-d12	264	15.812	15.813	(1.000)	57058	1.00000	
$ 135 Terphenyl-d14	244	12.205	12.206	(1.193)	406158	5.23506	5.235(R)
138 Benzo(a)anthracene	228	13.581	13.572	(1.327)	422933	5.71056	5.710
139 Chrysene	228	13.637	13.637	(1.332)	405565	5.47783	5.478
156 Benzo(b)fluoranthene	252	15.208	15.209	(0.962)	327590	4.57883	4.579
157 Benzo(k)fluoranthene	252	15.245	15.246	(0.964)	367685	5.21589	5.216
158 Benzo(a)pyrene	252	15.719	15.720	(0.994)	258750	4.82470	4.825
159 Indeno(1,2,3-cd)pyrene	276	17.532	17.533	(1.109)	220492	5.17392	5.174
160 Dibenz(a,h)anthracene	278	17.542	17.542	(1.109)	172468	5.08301	5.083
161 Benzo(g,h,i)perylene	276	18.016	18.007	(1.139)	203159	5.29221	5.292

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MEC
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Data File: \\ELABNSH05\TARGET\chem\bna4.i\022112B4.b\SEQ-ICV1.D
Report Date: 21-Feb-2012 13:25

QC Flag Legend

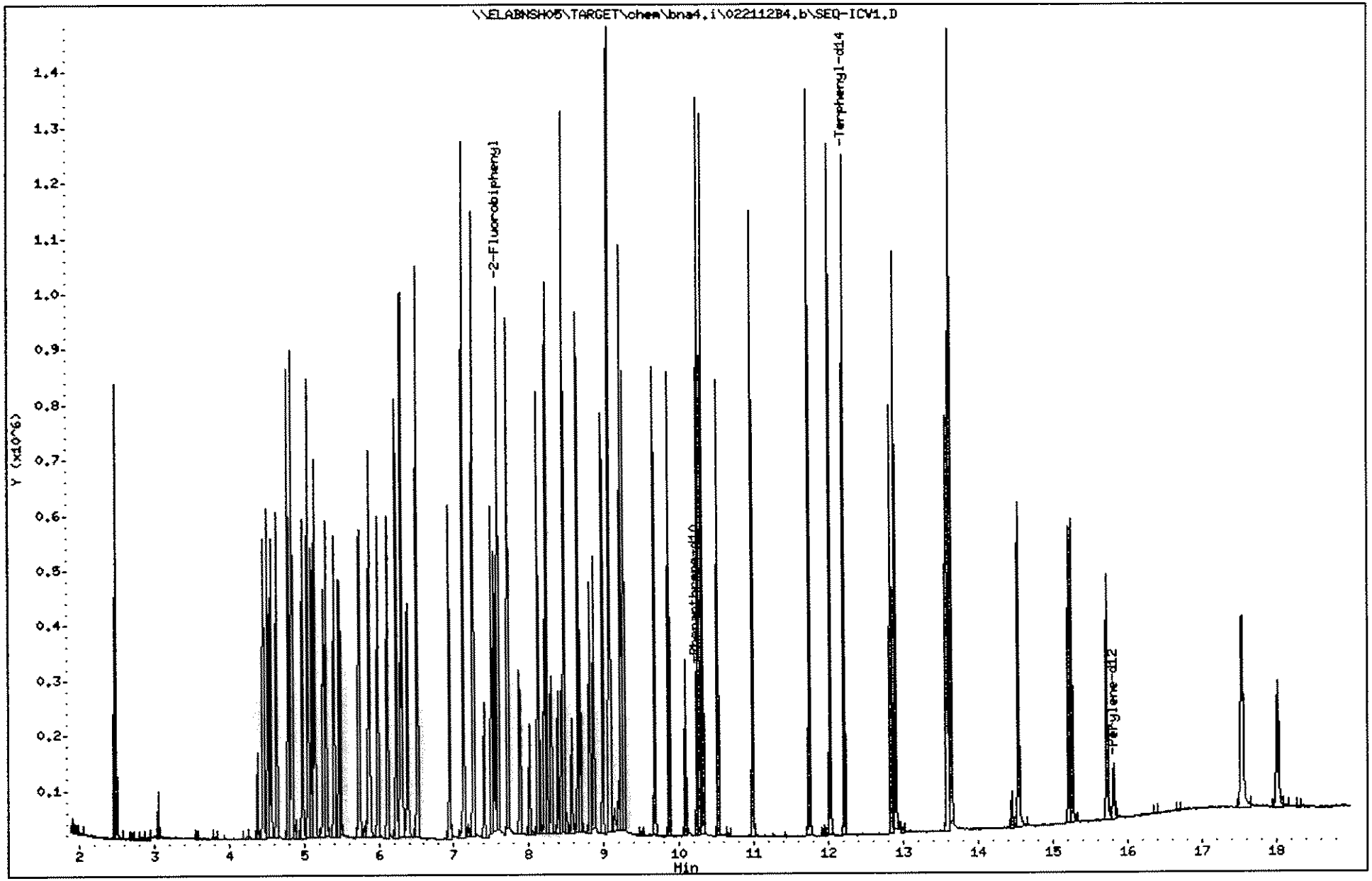
R - Spike/Surrogate failed recovery limits.

Data File: \\ELABNSH05\TARGET\chem\bna4.i\022112B4.b\SEQ-ICV1.D
Date : 21-FEB-2012 11:00
Client ID: SEQ-ICV1
Sample Info: SEQ-ICV1;;;;;;12B0552

Column phase: fused silica

Instrument: bna4.i

Operator: HEC
Column diameter: 0.25



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1202150

Data File: \\ELABNSH05\TARGET\chem\bna4.i\022112B4.b\SEQ-CCV1.D
Report Date: 21-Feb-2012 13:57

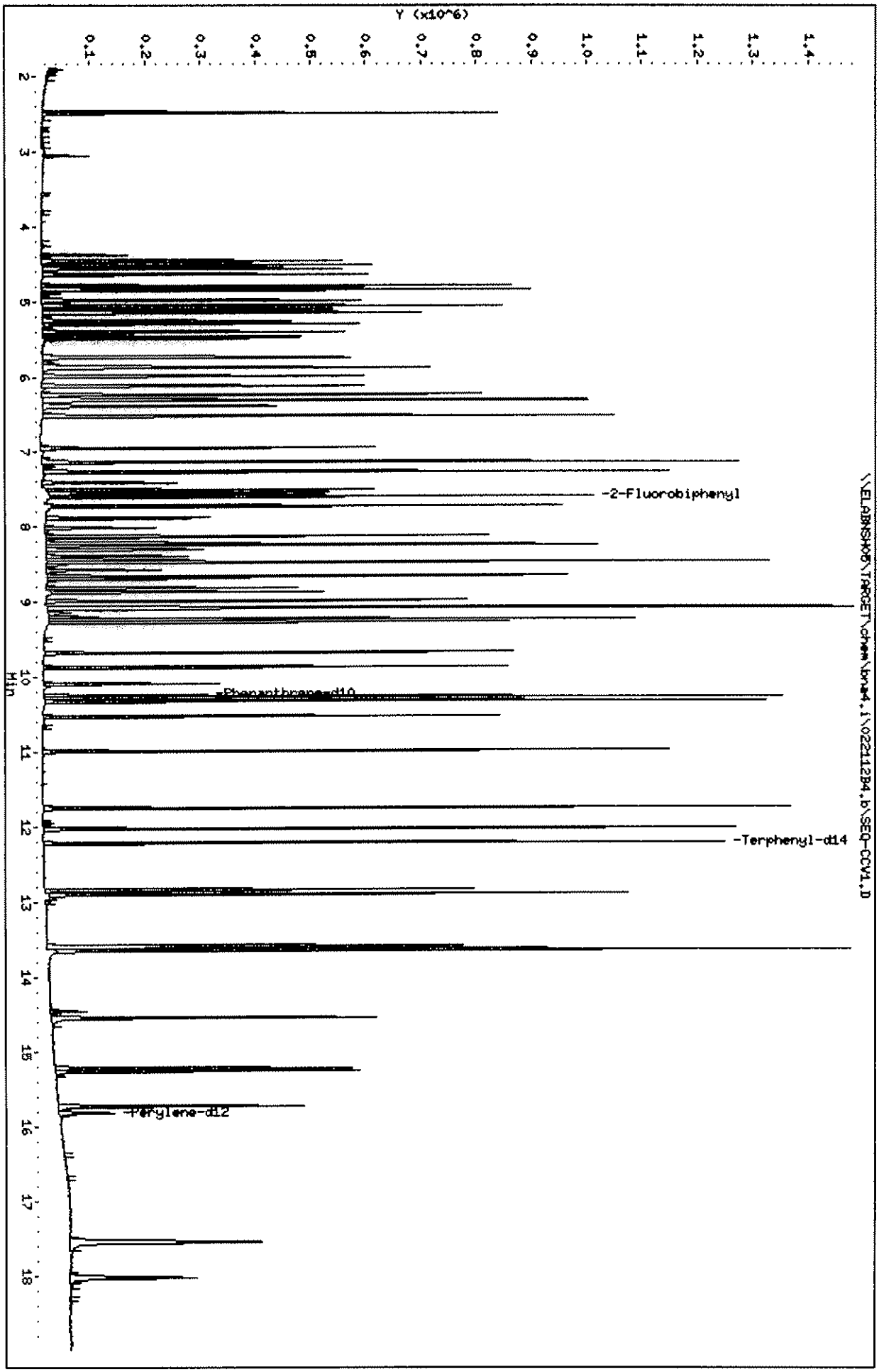
Laboratory Name

Data file : \\ELABNSH05\TARGET\chem\bna4.i\022112B4.b\SEQ-CCV1.D
Lab Smp Id: SEQ-CCV1 Client Smp ID: SEQ-CCV1
Inj Date : 21-FEB-2012 11:00 MS Autotune Date: 15-FEB-2012 09:23
Operator : MEC Inst ID: bna4.i
Smp Info : SEQ-CCV1;;;;;;12B0552
Misc Info : ;0;CCV;;;;pahlow.sub;
Comment :
Method : \\ELABNSH05\TARGET\chem\bna4.i\022112B4.b\IXBN4LOW.m
Meth Date : 21-Feb-2012 13:57 mcobb Quant Type: ISTD
Cal Date : 20-FEB-2012 16:29 Cal File: SEQ-CAL1.D
Als bottle: 2 Continuing Calibration Sample
Dil Factor: 1.00000
Integrator: HP RTE Compound Sublist: pahlow.sub
Target Version: 4.04
Processing Host: TARGET09_VM

Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	AMOUNTS CAL-AMT (ng/ul)	AMOUNTS ON-COL (ng/ul)
51 Naphthalene	128	6.311	6.311	(0.617)	602344	5.00000	5.308
55 2-Methylnaphthalene	142	7.130	7.130	(0.697)	350482	5.00000	4.740
56 1-Methylnaphthalene	142	7.260	7.260	(0.709)	332073	5.00000	4.637
$ 74 2-Fluorobiphenyl	172	7.594	7.594	(0.742)	395324	5.00000	4.380
77 Acenaphthylene	152	8.245	8.245	(0.806)	508346	5.00000	4.777
80 Acenaphthene	153	8.468	8.468	(0.827)	328101	5.00000	4.586
88 Fluorene	166	9.082	9.082	(0.887)	372411	5.00000	4.792
* 102 Phenanthrene-d10	188	10.235	10.235	(1.000)	112262	1.00000	
111 Phenanthrene	178	10.262	10.262	(1.003)	543985	5.00000	4.907
112 Anthracene	178	10.318	10.318	(1.008)	525707	5.00000	4.918
116 Fluoranthene	202	11.741	11.741	(1.147)	572620	5.00000	5.027
134 Pyrene	202	12.019	12.019	(1.174)	579350	5.00000	4.938
* 154 Perylene-d12	264	15.812	15.812	(1.000)	57058	1.00000	
$ 135 Terphenyl-d14	244	12.205	12.205	(1.193)	406158	5.00000	5.235
138 Benzo(a)anthracene	228	13.581	13.581	(1.327)	422933	5.00000	5.710
139 Chrysene	228	13.637	13.637	(1.332)	405565	5.00000	5.478
156 Benzo(b)fluoranthene	252	15.208	15.208	(0.962)	327590	5.00000	4.579
157 Benzo(k)fluoranthene	252	15.245	15.245	(0.964)	367685	5.00000	5.216
158 Benzo(a)pyrene	252	15.719	15.719	(0.994)	258750	5.00000	4.825
159 Indeno(1,2,3-cd)pyrene	276	17.532	17.532	(1.109)	220492	5.00000	5.174
160 Dibenz(a,h)anthracene	278	17.542	17.542	(1.109)	172468	5.00000	5.083
161 Benzo(g,h,i)perylene	276	18.016	18.016	(1.139)	203159	5.00000	5.292

-d 2/23/12

MEC
2/21/12


Data File: \\ELABNSHOO5\TARGET\chem\bna4.i\022112B4.b\SEQ-CCV1.D
Date : 21-FEB-2012 11:00
Client ID: SEQ-CCV1
Sample Info: SEQ-CCV1;;;;;;12B0552
Column phase: fused silica
Instrument: bna4.i
Operator: HEC
Column diameter: 0.25
\\ELABNSHOO5\TARGET\chem\bna4.i\022112B4.b\SEQ-CCV1.D
Y (x10^6)
Min
-2-Fluorobiphenyl
-Phenanthrene-d10
-Terphenyl-d14
-Perylene-d12

Sequence Name: C:\msdchem\1\sequence\022412B4.S
Comment: EPA8270
Operator: MEC
Data Path: D:\DATA\022412B4\
Instrument Control Pre-Seq Cmd:
Data Analysis Pre-Seq Cmd:

1097

Instrument Control Post-Seq Cmd:
Data Analysis Post-Seq Cmd:

MEC 2/25/12

Method Sections To Run
(X) Full Method
( ) Reprocessing Only

On A Barcode Mismatch
(X) Inject Anyway
( ) Don't Inject

Line			Sample Name/Misc Info	
1)	Sample	1	SEQ-TUN1	DFBN4LOW DF0224B1;;;;;;12B0448 10:06, 2/24
2)	Sample	2	SEQ-CCV1	IXBN4LOW SEQ-CCV1;;;;;;12B0746
3)	Pause			
4)	Spike	3	B21009L1	IXBN4LOW 2B21009-BS2;1;1000;1000;1;ug/
5)	Duplicate	4	B21009L2	IXBN4LOW 2B21009-BSD2;1;1000;1000;1;ug
6)	Blank	5	B21009B1	IXBN4LOW 2B21009-BLK2;1;1000;1000;1;ug
7)	Blank	6	B15010B2	IXBN4LOW 2B15010-BLK2;1;1000;1000;1;ug
8)	Sample	7	0209001	IXBN4LOW 1202090-01;1;1000;1000;1;ug/L
9)	Sample	8	0209002	IXBN4LOW 1202090-02;1;500;1000;1;ug/L;
10)	Sample	9	0209104	IXBN4LOW 1202091-04;1;1000;1000;1;ug/L
11)	Sample	10	0212709	IXBN4LOW 1202127-09;1;1000;1000;1;ug/L
12)	Sample	11	0212709M	IXBN4LOW 2B21009-MS3;1;1000;1000;1;ug/ } RR High IS
13)	Duplicate	12	0212709S	IXBN4LOW 2B21009-MSD3;1;1000;1000;1;ug }
14)	Sample	13	0213102	IXBN4LOW 1202131-02;1;1000;1000;1;ug/L
15)	Sample	14	0213102M	IXBN4LOW 2B21009-MS4;1;1000;1000;1;ug/ } RR High IS
16)	Duplicate	15	0213102S	IXBN4LOW 2B21009-MSD4;1;1000;1000;1;ug }
17)	Sample	16	0213108	IXBN4LOW 1202131-08;1;1000;1000;1;ug/L
18)	Sample	17	0213902	IXBN4LOW 1202139-02;1;1000;1000;1;ug/L - RR @ 10X
19)	Sample	18	0213903	IXBN4LOW 1202139-03;1;1000;1000;1;ug/L - RR @ 10X
20)	Sample	19	0213904	IXBN4LOW 1202139-04;1;1000;1000;1;ug/L
21)	Spike	20	B22014L1	IXBN4LOW 2B22014-BS1;1;15;1000;1;ug/Kg
22)	Blank	21	B22014B1	IXBN4LOW 2B22014-BLK1;1;15;1000;1;ug/K
23)	Sample	22	0215001D	IXBN4LOW 1202150-01;10;15;1000;1;ug/Kg
24)	Spike	23	0215001M	IXBN4LOW 2B22014-MS1;10;15;1000;1;ug/K
25)	Duplicate	24	0215001S	IXBN4LOW 2B22014-MSD1;10;15;1000;1;ug/
26)	Sample	25	0215002D	IXBN4LOW 1202150-02;10;15;1000;1;ug/Kg
27)	Sample	26	0215003	IXBN4LOW 1202150-03;1;15;1000;1;ug/Kg; 21:52, 2/24
28)	Sample	1	SEQ-TUN2	DFBN4LOW DF0224B1;;;;;;12B0448 22:24, 2/24
29)	Sample	2	SEQ-CCV2	IXBN4LOW SEQ-CCV1;;;;;; 12B0746
30)	Sample	27	0215004D	IXBN4LOW 1202150-04;10;15;1000;1;ug/Kg
31)	Sample	28	0215006	IXBN4LOW 1202150-06;1;15;1000;1;ug/Kg;
32)	Sample	29	0215007D	IXBN4LOW 1202150-07;50;15;1000;1;ug/Kg
33)	Sample	30	0215008	IXBN4LOW 1202150-08;1;15;1000;1;ug/Kg;
34)	Sample	31	0215009	IXBN4LOW 1202150-09;1;15;1000;1;ug/Kg;
35)	Sample	32	0215010	IXBN4LOW 1202150-10;1;15;1000;1;ug/Kg;
36)	Sample	33	0215011	IXBN4LOW 1202150-11;1;15;1000;1;ug/Kg;
37)	Sample	34	0215012D	IXBN4LOW 1202150-12;10;15;1000;1;ug/Kg
38)	Sample	35	0215013	IXBN4LOW 1202150-13;1;15;1000;1;ug/Kg;
39)	Sample	36	0215015	IXBN4LOW 1202150-15;1;15;1000;1;ug/Kg;
40)	Spike	37	0215015M	IXBN4LOW 2B22014-MS2;1;15;1000;1;ug/Kg
41)	Duplicate	38	0215015S	IXBN4LOW 2B22014-MSD2;1;15;1000;1;ug/K
42)	Sample	39	0215016	IXBN4LOW 1202150-16;1;15;1000;1;ug/Kg;
43)	Sample	40	0215017	IXBN4LOW 1202150-17;1;15;1000;1;ug/Kg;

T1

Last Modified: Fri Feb 24 15:57:44 2012

Sequence Name: C:\msdchem\1\sequence\0224128*.S

1098

	Line Type	Vial	DataFile	Method	Sample Name
44)	Sample	41	0215018	IXBN4LOW	1202150-18;1;15;1000;1;ug/Kg;
45)	Sample	42	0215019	IXBN4LOW	1202150-19;1;15;1000;1;ug/Kg;
46)	Sample	43	0215020	IXBN4LOW	1202150-20;1;15;1000;1;ug/Kg;
47)	Sample	44	0215021	IXBN4LOW	1202150-21;1;15;1000;1;ug/Kg; 7:16, 2/25

2/25/12
MEC

Data File: \\ELABNSH05\TARGET\chem\bna4.i\022412B4.b\SEQ-TUN1.D

Date : 24-FEB-2012 10:06

Client ID: 50ppm DFTPP

Instrument: bna4.i

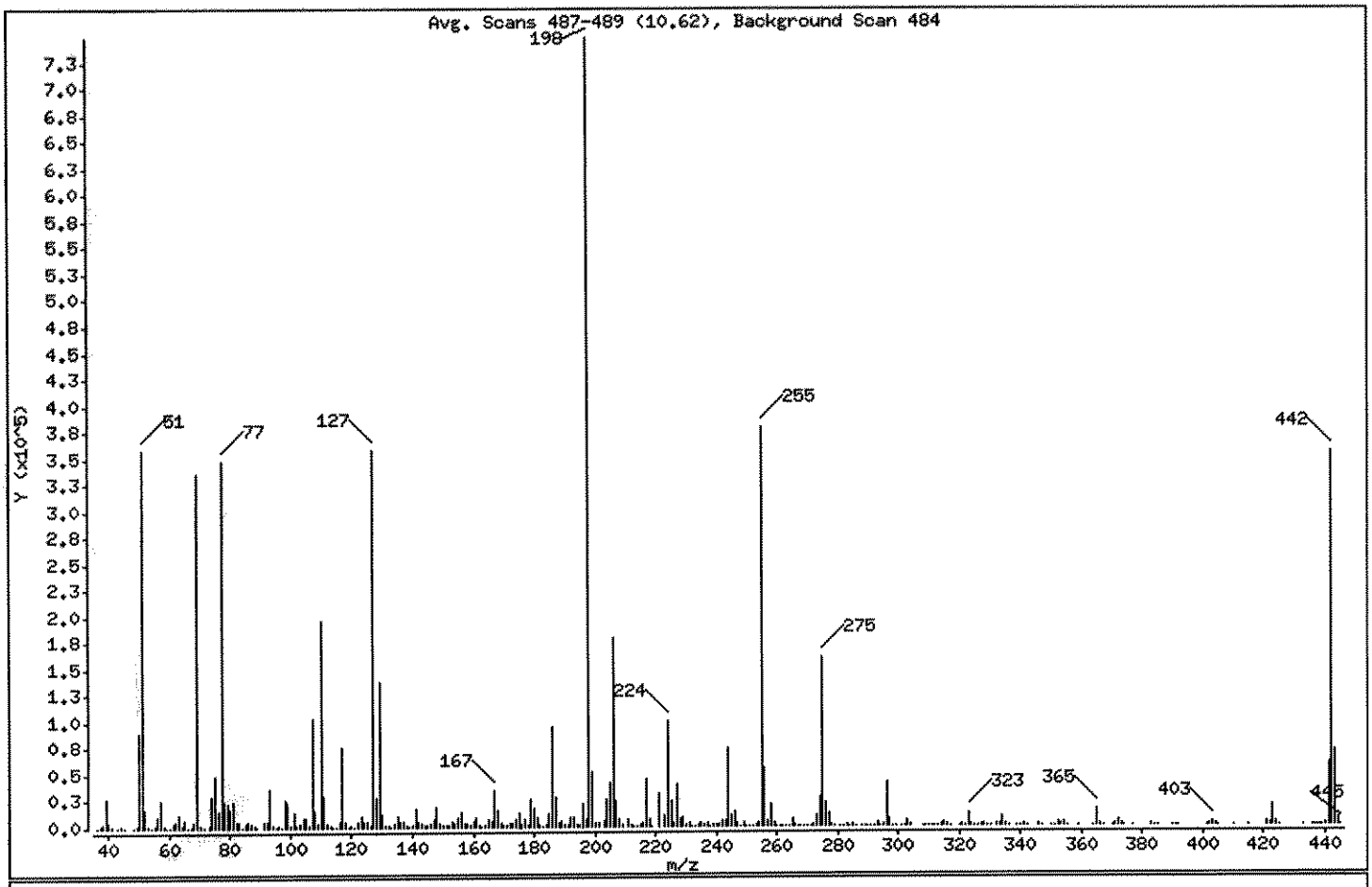
Sample Info: DF0224B1;;;;;;12B0448

Operator: MEC

Column phase: DB5-MS

Column diameter: 0.25

1 dftpp



m/e	ION ABUNDANCE CRITERIA	% RELATIVE ABUNDANCE
198	Base Peak, 100% relative abundance	100.00
51	30.00 - 60.00% of mass 198	47.76
68	Less than 2.00% of mass 69	0.72 (1.60)
69	Mass 69 relative abundance	44.79
70	Less than 2.00% of mass 69	0.21 (0.47)
127	40.00 - 60.00% of mass 198	47.89
197	Less than 1.00% of mass 198	0.81
199	5.00 - 9.00% of mass 198	6.91
275	10.00 - 30.00% of mass 198	21.30
365	Greater than 1.00% of mass 198	2.01
441	Present, but less than mass 443	7.83
442	Greater than 40.00% of mass 198	47.28
443	17.00 - 23.00% of mass 442	9.44 (19.97)

J.H. 3.1.12

MEC 2/25/12

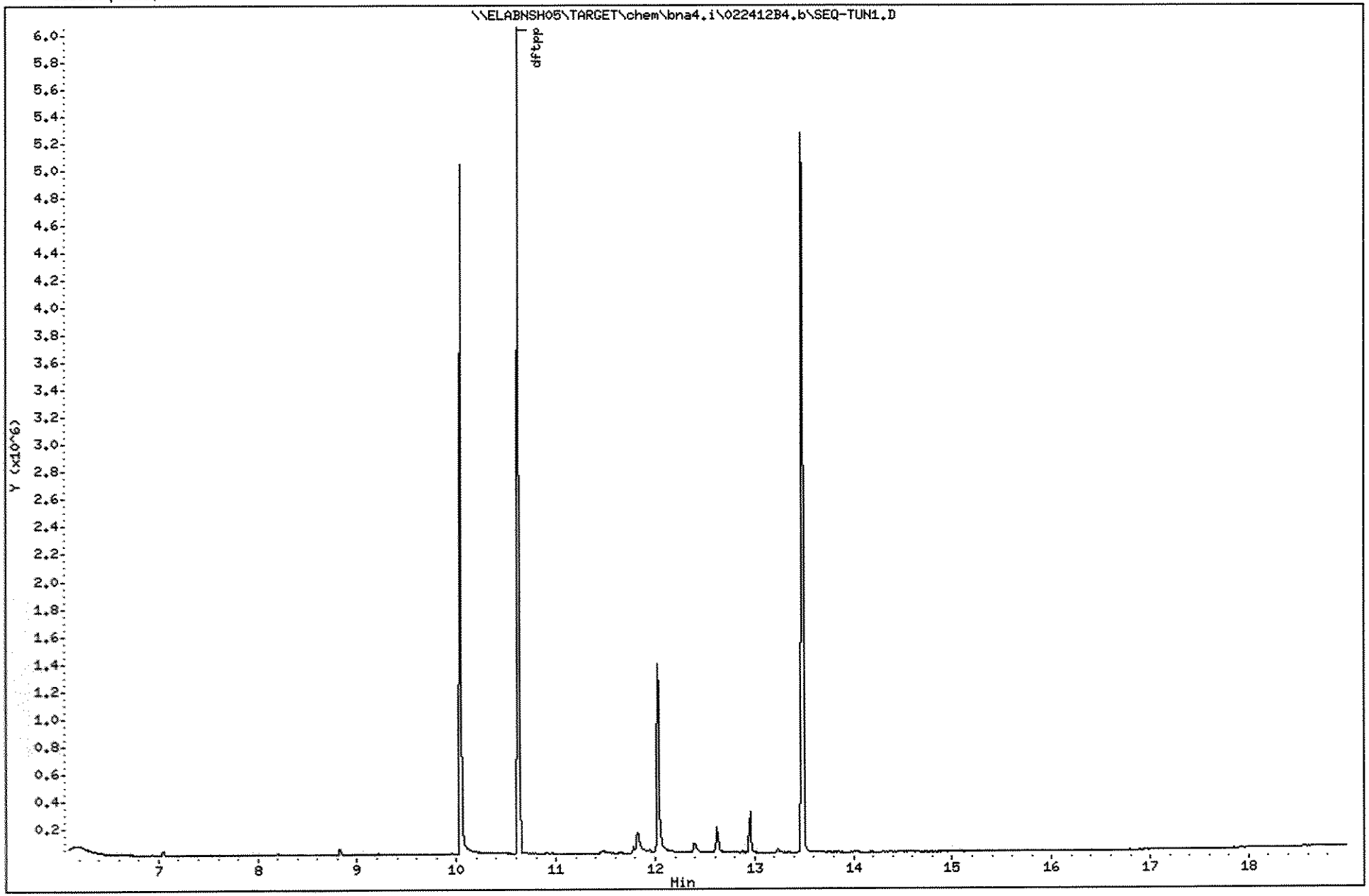
Data File: \\ELABNSH05\TARGET\chem\bna4.i\022412B4.b\SEQ-TUN1.D
Date : 24-FEB-2012 10:06
Client ID: 50ppm DFTPP
Sample Info: DF0224B1;;;;;;12B0448

Instrument: bna4.i

Operator: MEC

Column phase: DB5-MS

Column diameter: 0.25



157

1202150

Data File: \\ELABNSH05\TARGET\chem\bna4.i\022412B4.b\SEQ-CCV1.D
Report Date: 24-Feb-2012 10:52

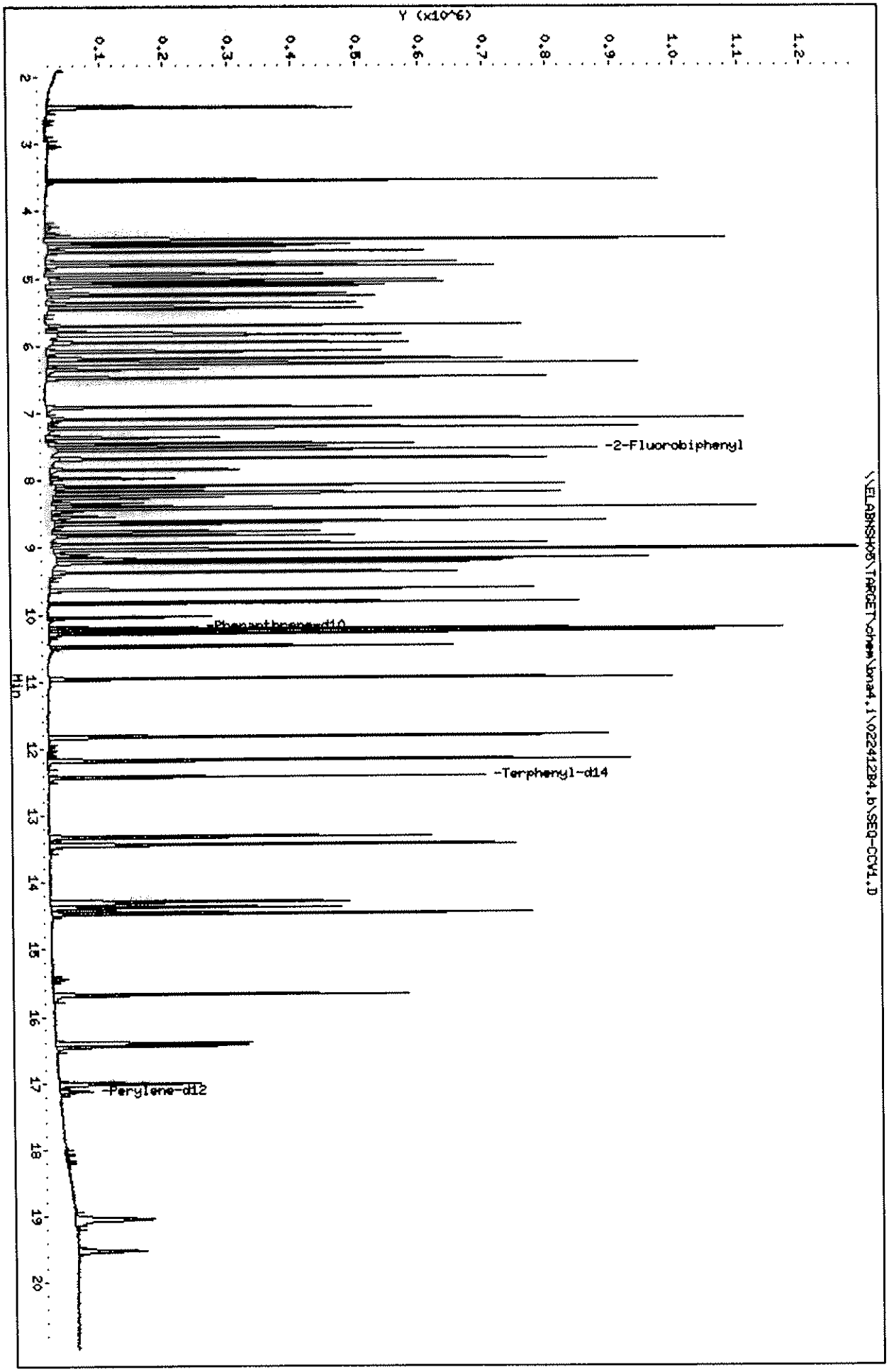
J.H. 3.1.12

Laboratory Name

Data file : \\ELABNSH05\TARGET\chem\bna4.i\022412B4.b\SEQ-CCV1.D
Lab Smp Id: SEQ-CCV1 Client Smp ID: SEQ-CCV1
Inj Date : 24-FEB-2012 10:28 MS Autotune Date: 15-FEB-2012 09:23
Operator : MEC Inst ID: bna4.i
Smp Info : SEQ-CCV1;;;;;;
Misc Info : ;2;CCV;;;;pahlow.sub;
Comment :
Method : \\ELABNSH05\TARGET\chem\bna4.i\022412B4.b\IXBN4LOW.m
Meth Date : 24-Feb-2012 10:52 mcobb Quant Type: ISTD
Cal Date : 20-FEB-2012 16:29 Cal File: SEQ-CAL1.D
Als bottle: 2 Continuing Calibration Sample
Dil Factor: 1.00000
Integrator: HP RTE Compound Sublist: pahlow.sub
Target Version: 4.04
Processing Host: TARGET09_VM

Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	AMOUNTS CAL-AMT (ng/ul)	AMOUNTS ON-COL (ng/ul)
51 Naphthalene	128	6.274	6.274	(0.615)	469742	5.00000	5.004
55 2-Methylnaphthalene	142	7.092	7.092	(0.696)	295629	5.00000	4.834
56 1-Methylnaphthalene	142	7.222	7.222	(0.708)	292773	5.00000	4.942
$ 74 2-Fluorobiphenyl	172	7.557	7.557	(0.741)	327593	5.00000	4.388
77 Acenaphthylene	152	8.208	8.208	(0.805)	452485	5.00000	5.140
80 Acenaphthene	153	8.431	8.431	(0.827)	299273	5.00000	5.058
88 Fluorene	166	9.044	9.044	(0.887)	322463	5.00000	5.016
* 102 Phenanthrene-d10	188	10.197	10.197	(1.000)	92859	1.00000	
111 Phenanthrene	178	10.225	10.225	(1.003)	457307	5.00000	4.987
112 Anthracene	178	10.281	10.281	(1.008)	452081	5.00000	5.113
116 Fluoranthene	202	11.824	11.824	(1.160)	490597	5.00000	5.207
134 Pyrene	202	12.177	12.177	(1.194)	497147	5.00000	5.122
* 154 Perylene-d12	264	17.123	17.123	(1.000)	32707	1.00000	
$ 135 Terphenyl-d14	244	12.428	12.428	(1.219)	286990	5.00000	4.472
138 Benzo(a)anthracene	228	14.297	14.297	(1.402)	310870	5.00000	5.074
139 Chrysene	228	14.381	14.381	(1.410)	300694	5.00000	4.910
156 Benzo(b)fluoranthene	252	16.398	16.398	(0.958)	227929	5.00000	5.558
157 Benzo(k)fluoranthene	252	16.444	16.444	(0.960)	220985	5.00000	5.469
158 Benzo(a)pyrene	252	17.011	17.011	(0.993)	160853	5.00000	5.232
159 Indeno(1,2,3-cd)pyrene	276	19.029	19.029	(1.111)	107189	5.00000	4.388
160 Dibenz(a,h)anthracene	278	19.057	19.057	(1.113)	86303	5.00000	4.437
161 Benzo(g,h,i)perylene	276	19.521	19.521	(1.140)	100320	5.00000	4.559

MEC 2/25/12


Data File: \\ELABNSHO5\TARGET\chem\bna4.i\022412B4.b\SEQ-CCV1.D
Date : 24-FEB-2012 10:28
Client ID: SEQ-CCV1
Sample Info: SEQ-CCV1;;;;;;
Column phase: fused silica
Instrument: bna4.i
Operator: MEC
Column diameter: 0.25
\\ELABNSHO5\TARGET\chem\bna4.i\022412B4.b\SEQ-CCV1.D
Y (x10^6)
Min
-2-Fluorobiphenyl
-Phenanthrene-d10
-Terphenyl-d14
-Perylene-d12

Data File: \\ELABNSH05\TARGET\chem\bna4.i\022412B4.b\B22014L1.D
Report Date: 28-Feb-2012 10:46

D.H. 3.1.12

Laboratory Name

Data file : \\ELABNSH05\TARGET\chem\bna4.i\022412B4.b\B22014L1.D
Lab Smp Id: 2B22014-BS1 Client Smp ID: 2B22014-BS1
Inj Date : 24-FEB-2012 19:05 MS Autotune Date: 15-FEB-2012 09:23
Operator : MEC Inst ID: bna4.i
Smp Info : 2B22014-BS1;1;15;1000;1;ug/Kg;22-FEB-2012
Misc Info : ;3;LCS;;;2B22014;pahlow.sub;
Comment :
Method : \\ELABNSH05\TARGET\chem\bna4.i\022412B4.b\IXBN4LOW.m
Meth Date : 28-Feb-2012 09:32 mcobb Quant Type: ISTD
Cal Date : 20-FEB-2012 16:29 Cal File: SEQ-CAL1.D
Als bottle: 20 QC Sample: LCS
Dil Factor: 1.00000
Integrator: HP RTE Compound Sublist: pahlow.sub
Target Version: 4.04
Processing Host: TARGET09_VM

Concentration Formula: Amt * DF * Uf * Vt*Vi/(Amt * Vi * (Solids/100))

Name	Value	Description
DF	1.000	Dilution Factor
Uf	1.000	ng unit correction factor
Vt	1000.000	Volume of final extract (uL)(1000 low, 2
Amt	15.000	Mass of initial extraction
Vi	1.000	Volume injected (uL)
Solids	100.000	Percent Solids

Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS ON-COLUMN (ng/ul)	FINAL (ug/Kg)
51 Naphthalene	128	6.265	6.274	(0.614)	99786	0.92100	61.40
55 2-Methylnaphthalene	142	7.092	7.092	(0.696)	66690	0.94472	62.98
56 1-Methylnaphthalene	142	7.223	7.232	(0.708)	59784	0.87432	58.29
$ 74 2-Fluorobiphenyl	172	7.557	7.557	(0.741)	3304417	38.3489	2556
77 Acenaphthylene	152	8.208	8.208	(0.805)	102412	1.00796	67.20
80 Acenaphthene	153	8.431	8.431	(0.827)	67469	0.98786	65.86
88 Fluorene	166	9.045	9.045	(0.887)	74784	1.00796	67.20
* 102 Phenanthrene-d10	188	10.197	10.197	(1.000)	107181	1.00000	
111 Phenanthrene	178	10.225	10.225	(1.003)	114436	1.08114	72.08
112 Anthracene	178	10.281	10.281	(1.008)	115190	1.12874	75.25(R)
116 Fluoranthene	202	11.834	11.833	(1.160)	126578	1.16391	77.59(R)
134 Pyrene	202	12.177	12.177	(1.194)	128389	1.14608	76.40
* 154 Perylene-d12	264	17.132	17.123	(1.000)	43319	1.00000	

MEC 2/28/12

Data File: \\ELABNSH05\TARGET\chem\bna4.i\022412B4.b\B22014L1.D
Report Date: 28-Feb-2012 10:46

Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS ON-COLUMN (ng/ul)	FINAL (ug/Kg)
$ 135 Terphenyl-d14	244	12.447	12.428	(1.221)	3661056	49.4252	3295
138 Benzo(a)anthracene	228	14.297	14.297	(1.402)	87640	1.23944	82.63(R)
139 Chrysene	228	14.381	14.381	(1.410)	89340	1.26389	84.26(R)
156 Benzo(b)fluoranthene	252	16.407	16.407	(0.958)	57327	1.05541	70.36
157 Benzo(k)fluoranthene	252	16.454	16.454	(0.960)	68211	1.27452	84.97(R)
158 Benzo(a)pyrene	252	17.021	17.021	(0.993)	43940	1.07917	71.94
159 Indeno(1,2,3-cd)pyrene	276	19.038	19.038	(1.111)	30746	0.95029	63.35
160 Dibenz(a,h)anthracene	278	19.066	19.066	(1.113)	22933	0.89025	59.35
161 Benzo(g,h,i)perylene	276	19.531	19.531	(1.140)	26540	0.91063	60.71

QC Flag Legend

R - Spike/Surrogate failed recovery limits.

Data File: \\ELABNSH05\TARGET\chem\bna4.i\022412B4.b\B22014L1.D
Report Date: 28-Feb-2012 10:46

Laboratory Name

RECOVERY REPORT

Client Name:
Sample Matrix: SOLID
Lab Smp Id: 2B22014-BS1
Level: LOW
Data Type: MS DATA
SpikeList File: dodslcs.spk
Sublist File: pahlow.sub
Method File: \\ELABNSH05\TARGET\chem\bna4.i\022412B4.b\IXBN4LOW.m
Misc Info: ;3;LCS;;;2B22014;pahlow.sub;

Client SDG: SDGa78581
Fraction: SV
Client Smp ID: 2B22014-BS1
Operator: MEC
SampleType: LCS
Quant Type: ISTD

SPIKE COMPOUND	CONC ADDED ug/Kg	CONC RECOVERED ug/Kg	% RECOVERED	LIMITS
4 1,4-Dioxane	66.67	0.0000	*	30-110
5 Pyridine	66.67	0.0000	*	10-110
6 N-Nitroso-di-meth	66.67	0.0000	*	20-115
7 Aniline	66.67	0.0000	*	10-110
9 Phenol	66.67	0.0000	*	40-100
11 bis(2-Chloroethyl	66.67	0.0000	*	40-105
12 2-Chlorophenol	66.67	0.0000	*	45-105
13 1,3-Dichlorobenze	66.67	0.0000	*	40-100
14 1,4-Dichlorobenze	66.67	0.0000	*	35-105
15 Benzyl alcohol	66.67	0.0000	*	20-125
16 1,2-Dichlorobenze	66.67	0.0000	*	45-95
17 2-Methylphenol	66.67	0.0000	*	40-105
18 bis(2-Chloroisopr	66.67	0.0000	*	20-115
20 4-Methylphenol	66.67	0.0000	*	40-105
21 N-Nitroso-di-n-pr	66.67	0.0000	*	40-115
22 Hexachloroethane	66.67	0.0000	*	35-110
32 Benzaldehyde	66.67	0.0000	*	10-160
35 Nitrobenzene	66.67	0.0000	*	40-115
39 Isophorone	66.67	0.0000	*	45-110
40 2-Nitrophenol	66.67	0.0000	*	40-110
42 2,4-Dimethylphenol	66.67	0.0000	*	30-105
43 Benzoic acid	66.67	0.0000	*	0-110
44 bis(2-Chloroethox	66.67	0.0000	*	45-110
47 2,4-Dichlorophenol	66.67	0.0000	*	45-110
50 1,2,4-Trichlorobe	66.67	0.0000	*	45-110
51 Naphthalene	66.67	61.40	92.10	40-105
52 4-Chloroaniline	66.67	0.0000	*	10-95
53 Hexachlorobutadie	66.67	0.0000	*	30-110
54 4-Chloro-3-methyl	66.67	0.0000	*	45-115
55 2-Methylnaphthalen	66.67	62.98	94.47	40-110
56 1-Methylnaphthalen	66.67	58.29	87.43	30-110
57 Acetophenone	66.67	0.0000	*	35-110
67 1,2,4,5-Tetrachlo	66.67	0.0000	*	50-150

Data File: \\ELABNSH05\TARGET\chem\bna4.i\022412B4.b\B22014L1.D
Report Date: 28-Feb-2012 10:46

SPIKE	COMPOUND	CONC ADDED ug/Kg	CONC RECOVERED ug/Kg	% RECOVERED	LIMITS
68	Caprolactam	66.67	0.0000	*	50-110
70	Hexachlorocyclope	66.67	0.0000	*	10-110
71	2,4,6-Trichloroph	66.67	0.0000	*	45-110
72	2,4,5-Trichloroph	66.67	0.0000	*	50-110
73	2-Chloronaphthale	66.67	0.0000	*	45-105
75	2-Nitroaniline	66.67	0.0000	*	45-120
76	Dimethylphthalate	66.67	0.0000	*	50-110
77	Acenaphthylene	66.67	67.20	100.79	45-105
78	2,6-Dinitrotoluene	66.67	0.0000	*	50-110
79	3-Nitroaniline	66.67	0.0000	*	25-110
80	Acenaphthene	66.67	65.86	98.79	45-110
81	2,4-Dinitrophenol	66.67	0.0000	*	15-130
83	4-Nitrophenol	66.67	0.0000	*	15-140
84	Dibenzofuran	66.67	0.0000	*	50-105
85	2,4-Dinitrotoluene	66.67	0.0000	*	50-115
86	Diethylphthalate	66.67	0.0000	*	50-115
87	4-Chlorophenyl-ph	66.67	0.0000	*	45-110
88	Fluorene	66.67	67.20	100.79	50-110
89	4-Nitroaniline	66.67	0.0000	*	35-115
100	1,1'-Biphenyl	66.67	0.0000	*	45-110
103	1,2-Diphenylhydra	66.67	0.0000	*	10-110
104	Carbazole	66.67	0.0000	*	45-115
105	4,6-Dinitro-2-met	66.67	0.0000	*	30-135
106	N-Nitrosodiphenyl	66.67	0.0000	*	50-115
108	4-Bromophenyl-phe	66.67	0.0000	*	45-115
109	Hexachlorobenzene	66.67	0.0000	*	45-120
110	Pentachlorophenol	66.67	0.0000	*	25-120
111	Phenanthrene	66.67	72.08	108.11	50-110
112	Anthracene	66.67	75.25	112.87*	55-105
115	Di-n-butylphthala	66.67	0.0000	*	55-110
116	Fluoranthene	66.67	77.59	116.38*	55-115
129	Atrazine	66.67	0.0000	*	55-105
134	Pyrene	66.67	76.40	114.59	45-125
136	Butylbenzylphthal	66.67	0.0000	*	50-125
137	3,3'-Dichlorobenz	66.67	0.0000	*	19-130
138	Benzo(a)anthracene	66.67	82.63	123.94*	50-110
139	Chrysene	66.67	84.26	126.38*	55-110
140	Bis(2-ethylhexyl)	66.67	0.0000	*	45-125
155	Di-n-octylphthala	66.67	0.0000	*	40-130
156	Benzo(b)fluoranthe	66.67	70.36	105.53	45-115
157	Benzo(k)fluoranthe	66.67	84.97	127.45*	45-125
158	Benzo(a)pyrene	66.67	71.94	107.90	50-110
159	Indeno(1,2,3-cd)py	66.67	63.35	95.02	40-120
160	Dibenz(a,h)anthrac	66.67	59.35	89.02	40-125
161	Benzo(g,h,i)peryle	66.67	60.71	91.06	40-125

Data File: \\ELABNSH05\TARGET\chem\bna4.i\022412B4.b\B22014L1.D
Report Date: 28-Feb-2012 10:46

Laboratory Name

RECOVERY REPORT

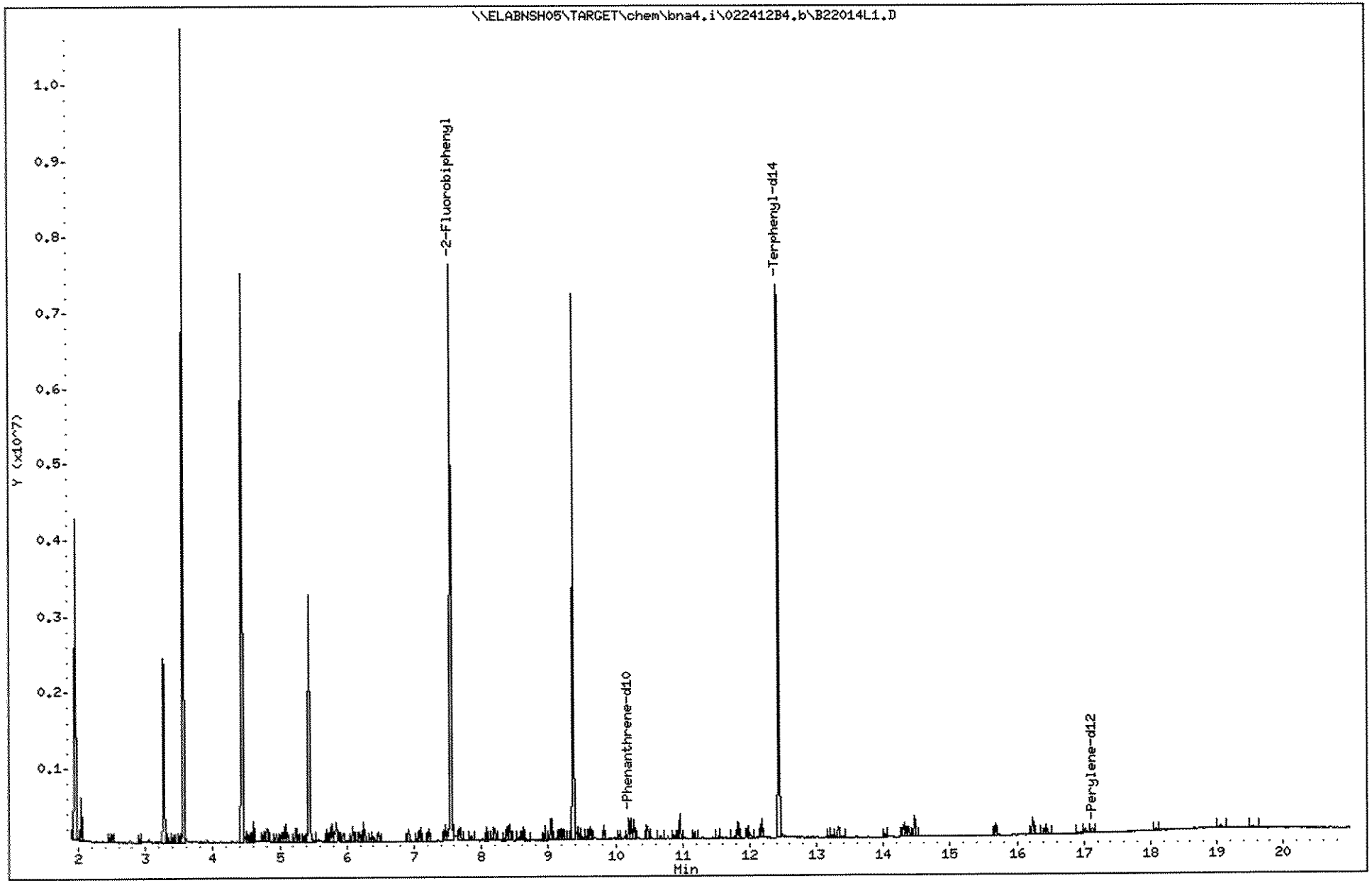
Client Name:
Sample Matrix: SOLID
Lab Smp Id: 2B22014-BS1
Level: LOW
Data Type: MS DATA
SpikeList File: dodslcs.spk
Sublist File: pahlow.sub
Method File: \\ELABNSH05\TARGET\chem\bna4.i\022412B4.b\IXBN4LOW.m
Misc Info: ;3;LCS;;;2B22014;pahlow.sub;

Client SDG: SDGa78581
Fraction: SV
Client Smp ID: 2B22014-BS1
Operator: MEC
SampleType: LCS
Quant Type: ISTD

SURROGATE COMPOUND	CONC ADDED ug/Kg	CONC RECOVERED ug/Kg	% RECOVERED	LIMITS
$ 74 2-Fluorobiphenyl	3333	2556	76.69	0-129
$ 135 Terphenyl-d14	3333	3295	98.86	0-129

Data File: \\ELABNSH05\TARGET\chem\bna4.i\022412B4.b\B22014L1.D
Date : 24-FEB-2012 19:05
Client ID: 2B22014-BS1
Sample Info: 2B22014-BS1;1;15;1000;1;ug/Kg;22-FEB-2012
Volume Injected (uL): 1.0
Column phase: fused silica

Instrument: bna4.i
Operator: MEC
Column diameter: 0.25



165

1202150

Data File: \\ELABNSH05\TARGET\chem\bna4.i\022412B4.b\B22014B1.D
Report Date: 28-Feb-2012 10:46

JH. 3.1.12

Laboratory Name

Data file : \\ELABNSH05\TARGET\chem\bna4.i\022412B4.b\B22014B1.D
Lab Smp Id: 2B22014-BLK1 Client Smp ID: 2B22014-BLK1
Inj Date : 24-FEB-2012 19:33 MS Autotune Date: 15-FEB-2012 09:23
Operator : MEC Inst ID: bna4.i
Smp Info : 2B22014-BLK1;1;15;1000;1;ug/Kg;22-FEB-2012
Misc Info : ;3;BLANK;;;2B22014;pahlow.sub;
Comment :
Method : \\ELABNSH05\TARGET\chem\bna4.i\022412B4.b\IXBN4LOW.m
Meth Date : 28-Feb-2012 09:32 mcobb Quant Type: ISTD
Cal Date : 20-FEB-2012 16:29 Cal File: SEQ-CAL1.D
Als bottle: 21 QC Sample: BLANK
Dil Factor: 1.00000
Integrator: HP RTE Compound Sublist: pahlow.sub
Target Version: 4.04
Processing Host: TARGET09_VM

Concentration Formula: Amt * DF * Uf * Vt*Vi/(Amt * Vi * (Solids/100))

Name	Value	Description
DF	1.000	Dilution Factor
Uf	1.000	ng unit correction factor
Vt	1000.000	Volume of final extract (uL)(1000 low, 2
Amt	15.000	Mass of initial extraction
Vi	1.000	Volume injected (uL)
Solids	100.000	Percent Solids

Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS ON-COLUMN (ng/ul)	FINAL (ug/Kg)
$ 74 2-Fluorobiphenyl	172	7.557	7.557	(0.741)	3051638	38.8135	2588
* 102 Phenanthrene-d10	188	10.197	10.197	(1.000)	97797	1.00000	
* 154 Perylene-d12	264	17.132	17.123	(1.000)	31294	1.00000	
$ 135 Terphenyl-d14	244	12.438	12.428	(1.220)	3518657	52.0608	3471(A)

QC Flag Legend

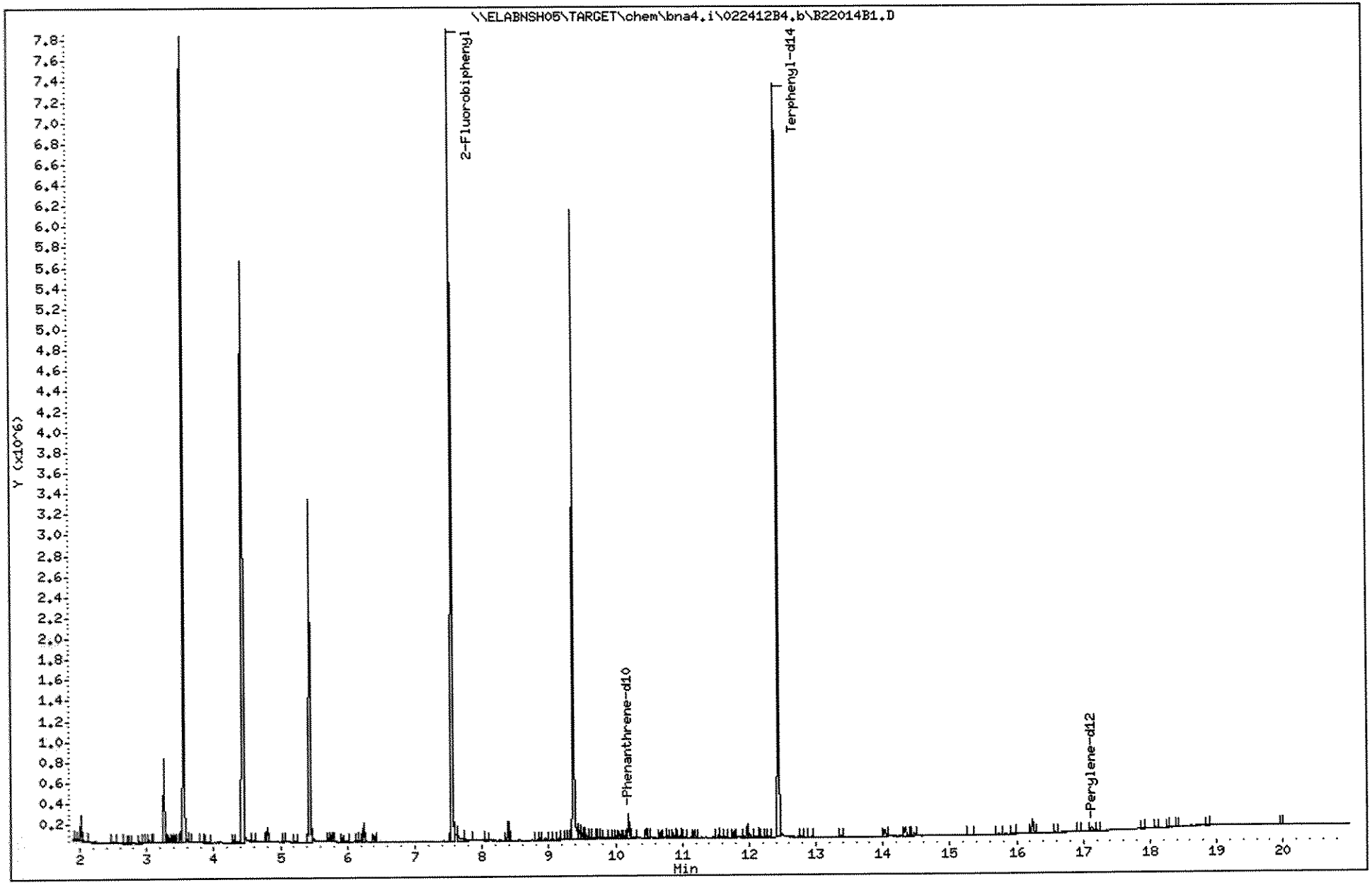
A - Target compound detected but, quantitated amount exceeded maximum amount.

MEC
2/28/12

Data File: \\ELABNSH05\TARGET\chem\bna4.i\022412B4.b\B22014B1.D
Date : 24-FEB-2012 19:33
Client ID: 2B22014-BLK1
Sample Info: 2B22014-BLK1;1;15;1000;1;ug/Kg;22-FEB-2012
Volume Injected (uL): 1.0
Column phase: fused silica

Instrument: bna4.i

Operator: MEC
Column diameter: 0.25



Data File: \\ELABNSH05\TARGET\chem\bna4.i\022412B4.b\0215001D.D
Report Date: 28-Feb-2012 10:46

Laboratory Name

J.H. 3.1.12

Data file : \\ELABNSH05\TARGET\chem\bna4.i\022412B4.b\0215001D.D
Lab Smp Id: 1202150-01 Client Smp ID: FLC-4-SS03-0006-022
Inj Date : 24-FEB-2012 20:01 MS Autotune Date: 15-FEB-2012 09:23
Operator : MEC Inst ID: bna4.i
Smp Info : 1202150-01;10;15;1000;1;ug/Kg;22-FEB-2012
Misc Info : ;0;;;;2B22014;pahlow.sub;
Comment :
Method : \\ELABNSH05\TARGET\chem\bna4.i\022412B4.b\IXBN4LOW.m
Meth Date : 28-Feb-2012 09:32 mcobb Quant Type: ISTD
Cal Date : 20-FEB-2012 16:29 Cal File: SEQ-CAL1.D
Als bottle: 22
Dil Factor: 10.00000
Integrator: HP RTE Compound Sublist: pahlow.sub
Target Version: 4.04
Processing Host: TARGET09_VM

Concentration Formula: Amt * DF * Uf * Vt*Vi/(Amt * Vi * (Solids/100))

Name	Value	Description
DF	10.000	Dilution Factor
Uf	1.000	ng unit correction factor
Vt	1000.000	Volume of final extract (uL)(1000 low, 2
Amt	15.000	Mass of initial extraction
Vi	1.000	Volume injected (uL)
Solids	100.000	Percent Solids

Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS ON-COLUMN (ng/ul)	FINAL (ug/Kg)
$ 74 2-Fluorobiphenyl	172	7.557	7.557	(0.741)	270683	4.11391	2743
77 Acenaphthylene	152	8.208	8.208	(0.805)	5024	0.06476	43.17
* 102 Phenanthrene-d10	188	10.197	10.197	(1.000)	81843	1.00000	
111 Phenanthrene	178	10.225	10.225	(1.003)	4116	0.05092	33.95
116 Fluoranthene	202	11.834	11.833	(1.160)	13603	0.16381	109.2
134 Pyrene	202	12.178	12.177	(1.194)	23570	0.27554	183.7
* 154 Perylene-d12	264	17.123	17.123	(1.000)	37221	1.00000	
$ 135 Terphenyl-d14	244	12.429	12.428	(1.219)	299503	5.29516	3530
138 Benzo(a)anthracene	228	14.297	14.297	(1.402)	5906	0.10938	72.92(M)
139 Chrysene	228	14.371	14.381	(1.409)	12248	0.22692	151.3
156 Benzo(b)fluoranthene	252	16.407	16.407	(0.958)	9277	0.19877	132.5(M)
157 Benzo(k)fluoranthene	252	16.435	16.454	(0.960)	8547	0.18586	123.9(M)
158 Benzo(a)pyrene	252	17.021	17.021	(0.994)	6125	0.17508	116.7

MEC 2/28/12

Data File: \\ELABNSH05\TARGET\chem\bna4.i\022412B4.b\0215001D.D
Report Date: 28-Feb-2012 10:46

Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS ON-COLUMN (ng/ul)	FINAL (ug/Kg)
159 Indeno(1,2,3-cd)pyrene	276	19.038	19.038	(1.112)	2737	0.09845	65.64
160 Dibenz(a,h)anthracene	278	19.066	19.066	(1.113)	1104	0.04988	33.25(a)
161 Benzo(g,h,i)perylene	276	19.531	19.531	(1.141)	3231	0.12902	86.02

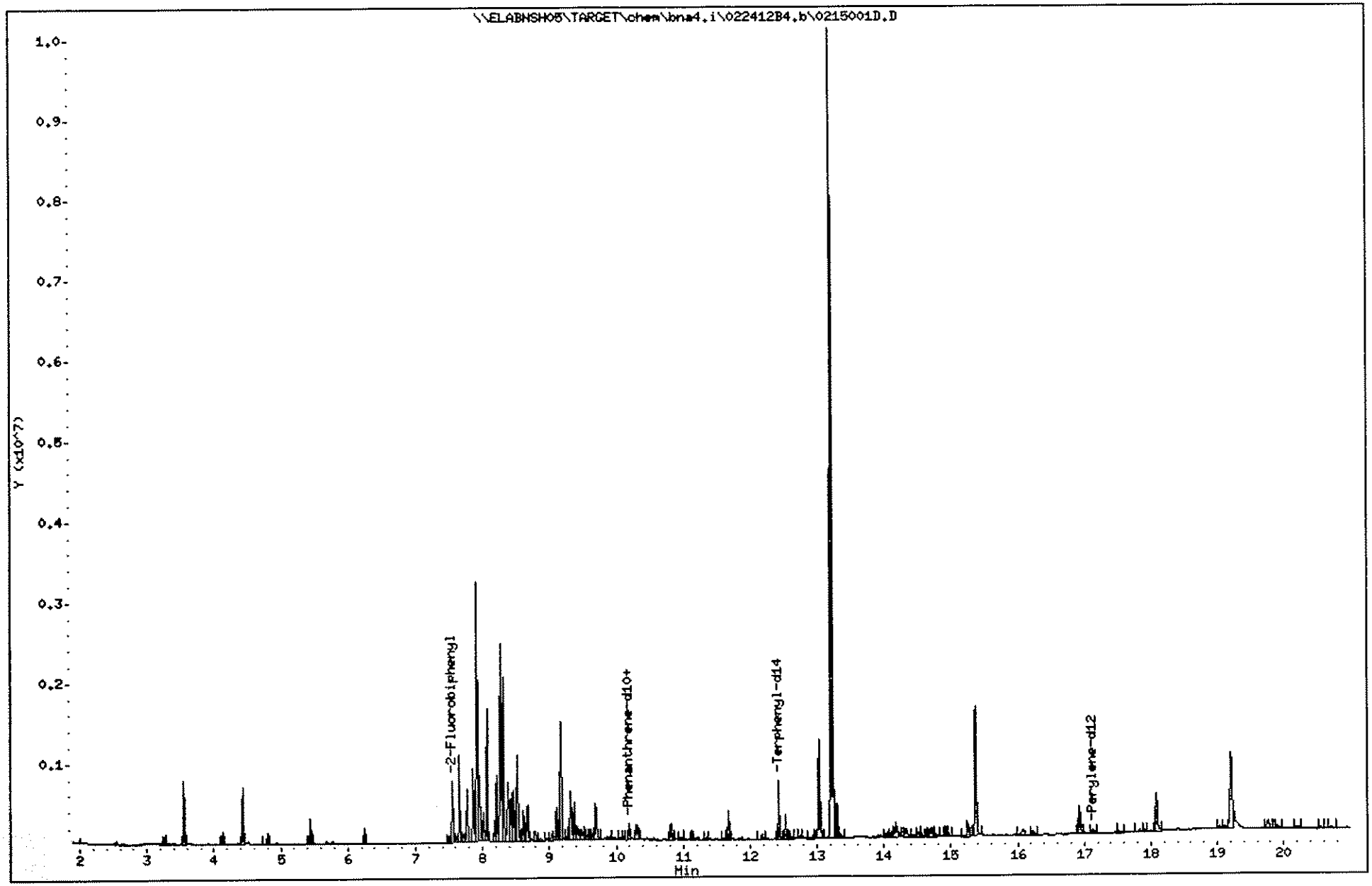
QC Flag Legend

a - Target compound detected but, quantitated amount
Below Limit Of Quantitation(BLOQ).
M - Compound response manually integrated.

Data File: \\ELABNSH05\TARGET\chem\bna4.i\022412B4.b\0215001D.D
Date : 24-FEB-2012 20:01
Client ID: FLC-4-SS03-0006-022
Sample Info: 1202150-01;10;15;1000;1;ug/Kg;22-FEB-2012
Volume Injected (uL): 1.0
Column phase: fused silica

Instrument: bna4.i

Operator: HEC
Column diameter: 0.25



170

1202150

Data File: \\ELABNSH05\TARGET\chem\bna4.i\022412B4.b\0215001D.D

Date : 24-FEB-2012 20:01

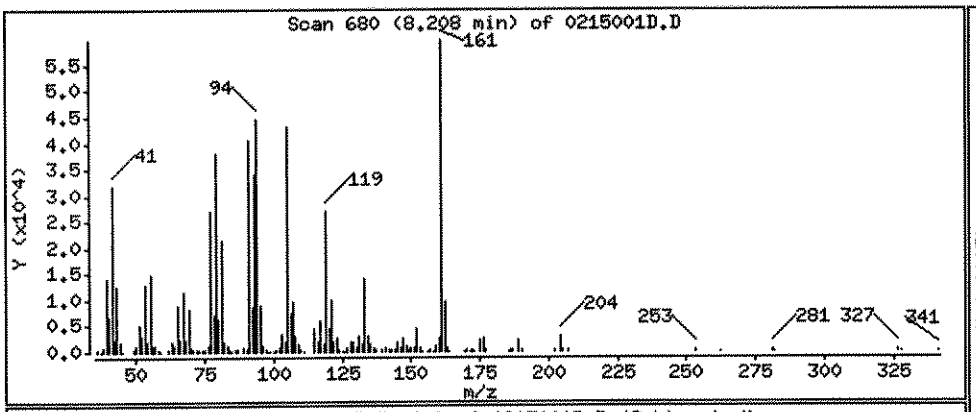
Client ID: FLC-4-SS03-0006-022 Instrument: bna4.i

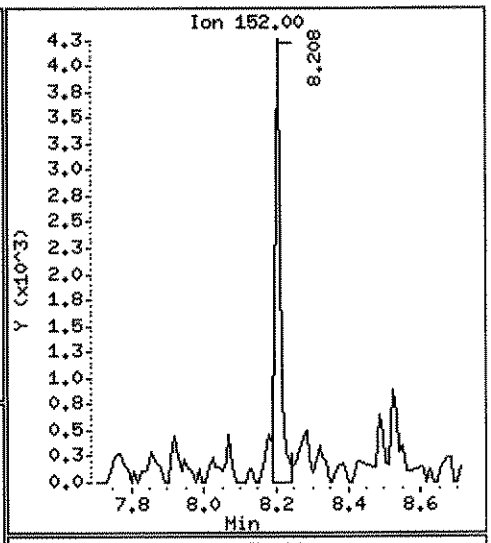
Sample Info: 1202150-01;10;15;1000;1;ug/Kg;22-FEB-2012

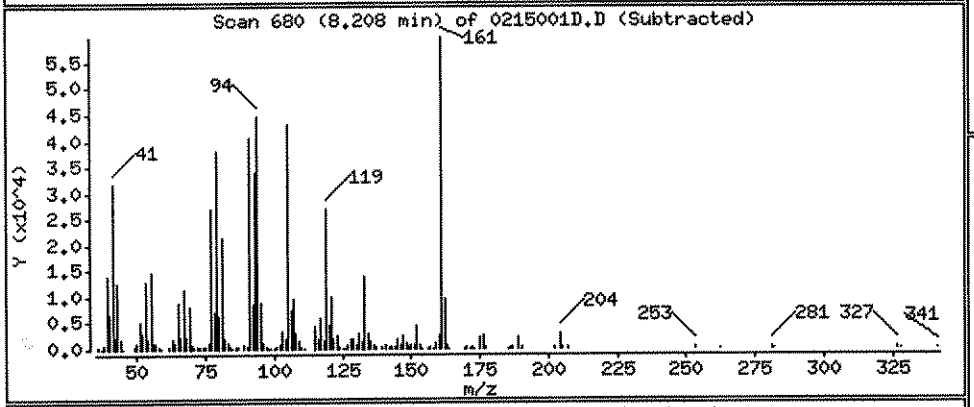
Volume Injected (uL): 1.0 Operator: MEC

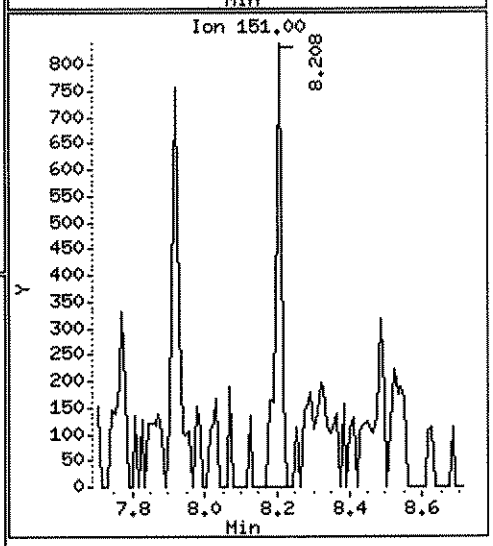
Column phase: fused silica Column diameter: 0.25

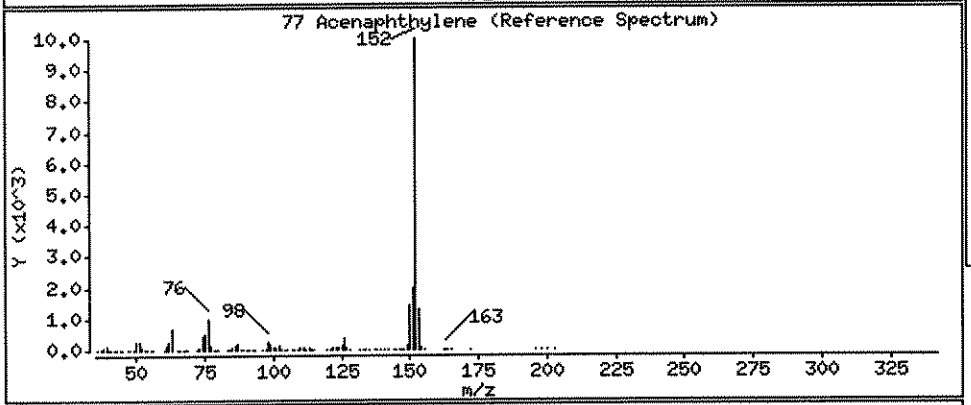
77 Acenaphthylene Concentration: 43.17 ug/Kg

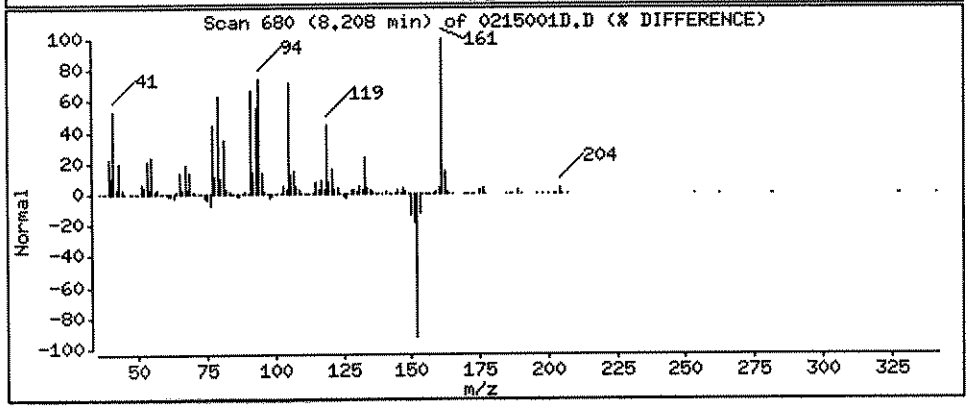












Data File: \\ELABNSH05\TARGET\chem\bna4.i\022412B4.b\0215001D.D

Date : 24-FEB-2012 20:01

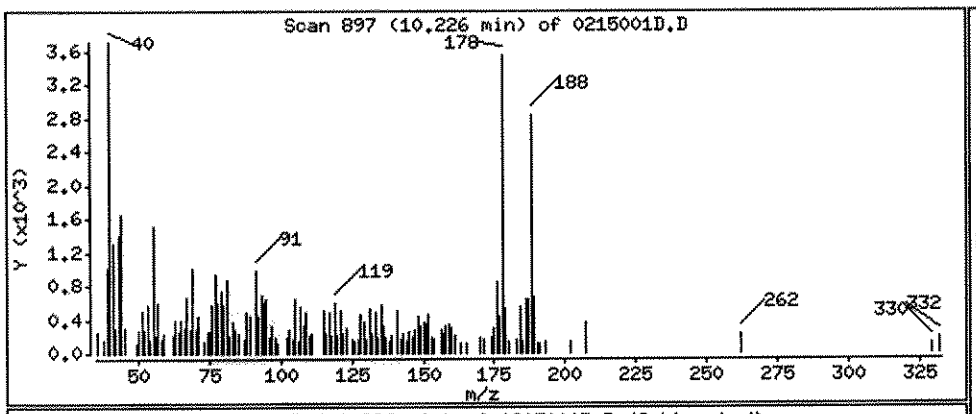
Client ID: FLC-4-SS03-0006-022 Instrument: bna4.i

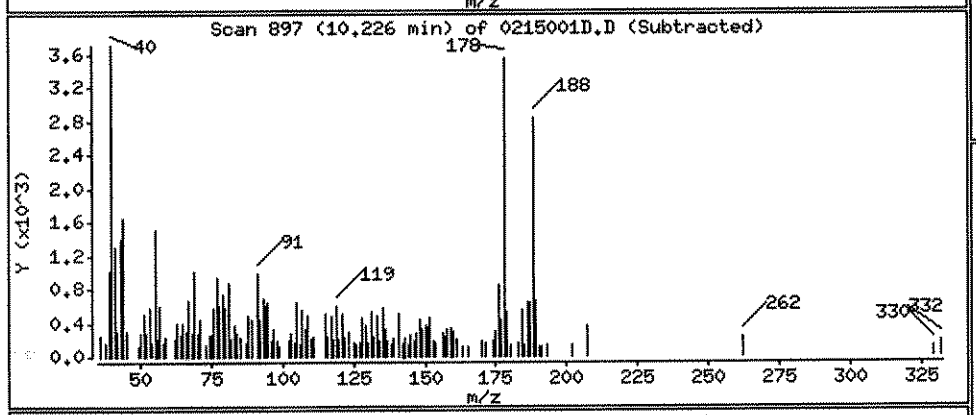
Sample Info: 1202150-01;10;15;1000;1;ug/Kg;22-FEB-2012

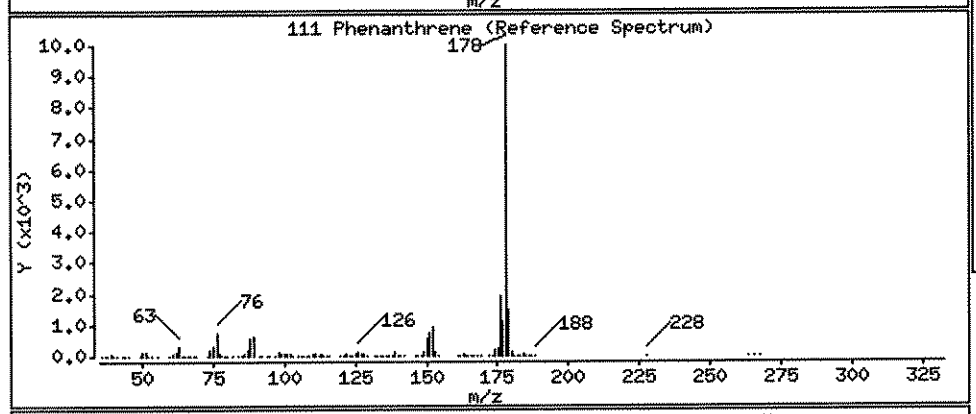
Volume Injected (uL): 1.0 Operator: MEC

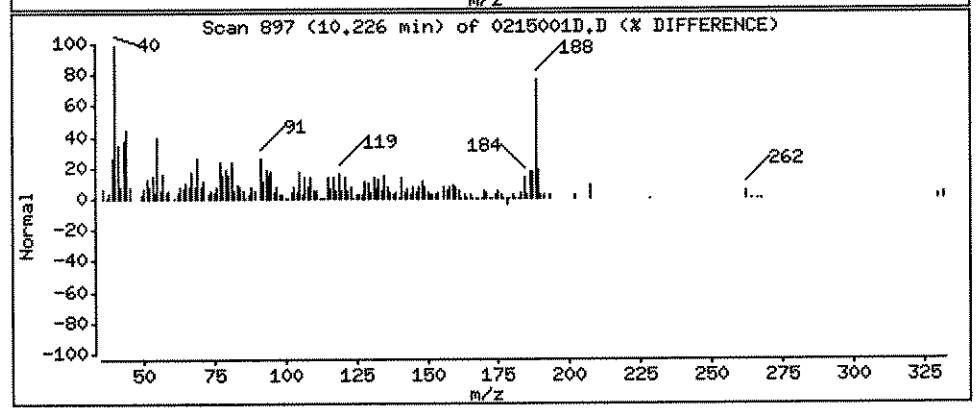
Column phase: fused silica Column diameter: 0.25

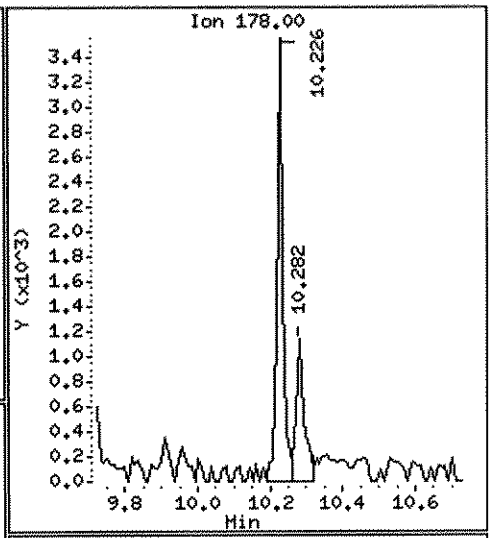
111 Phenanthrene Concentration: 33.95 ug/Kg

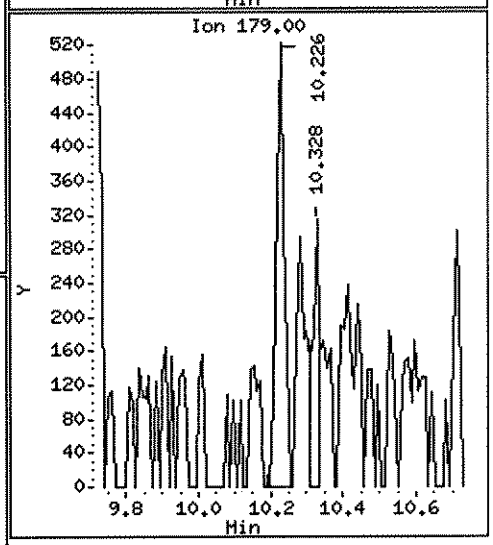












Data File: \\ELABNSH05\TARGET\chem\bna4.i\022412B4.b\0215001D.D

Date : 24-FEB-2012 20:01

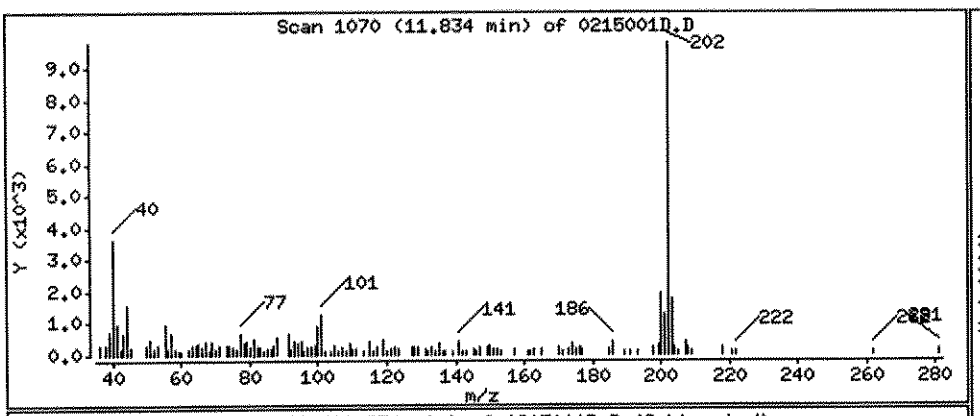
Client ID: FLC-4-SS03-0006-022 Instrument: bna4.i

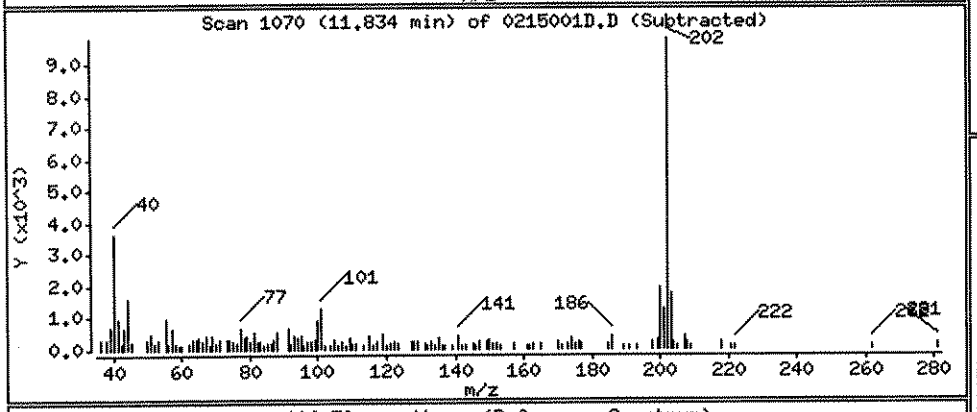
Sample Info: 1202150-01;10;15;1000;1;ug/Kg;22-FEB-2012

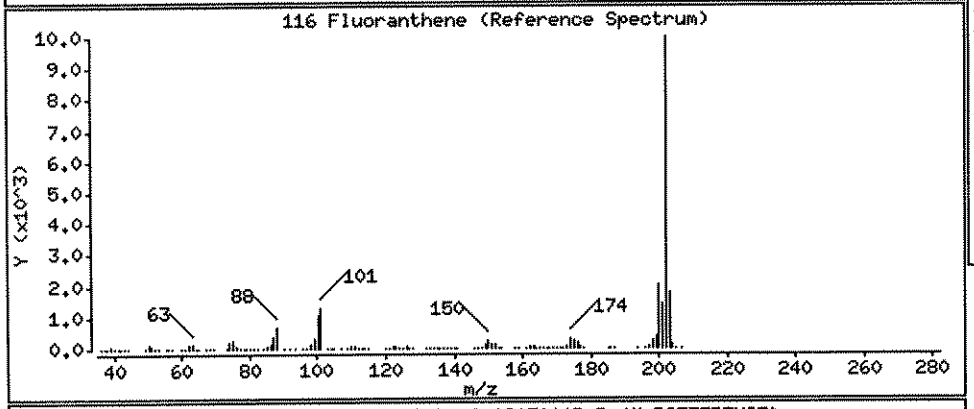
Volume Injected (uL): 1.0 Operator: MEC

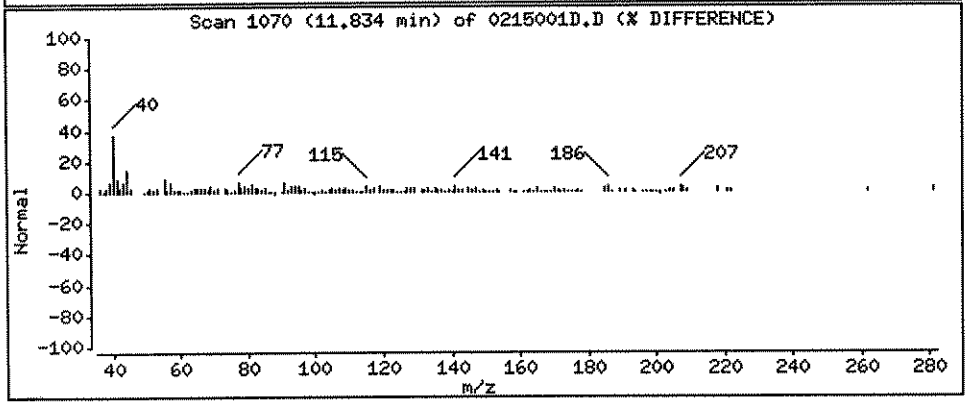
Column phase: fused silica Column diameter: 0.25

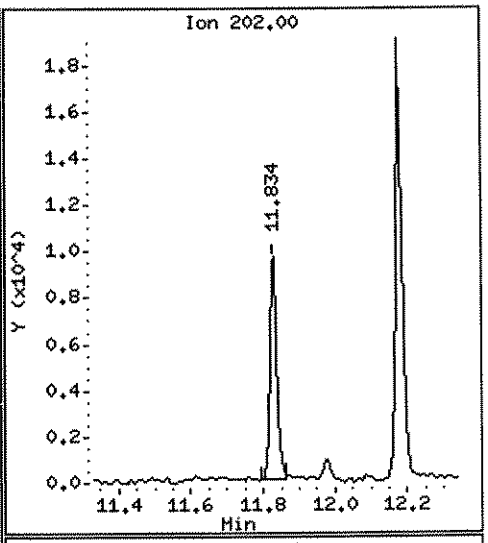
116 Fluoranthene Concentration: 109.2 ug/Kg

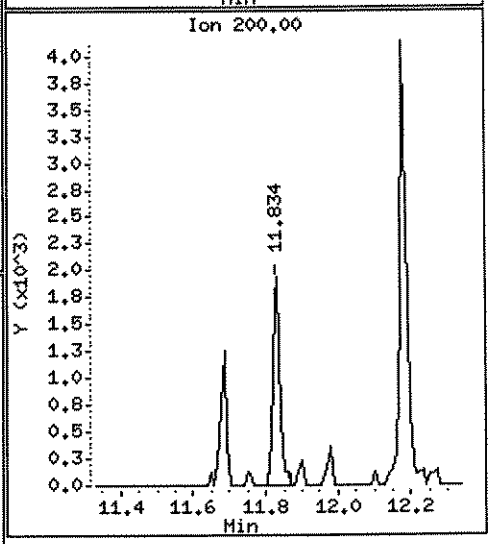












Data File: \\ELABNSH05\TARGET\chem\bna4.i\022412B4.b\0215001D.D

Date : 24-FEB-2012 20:01

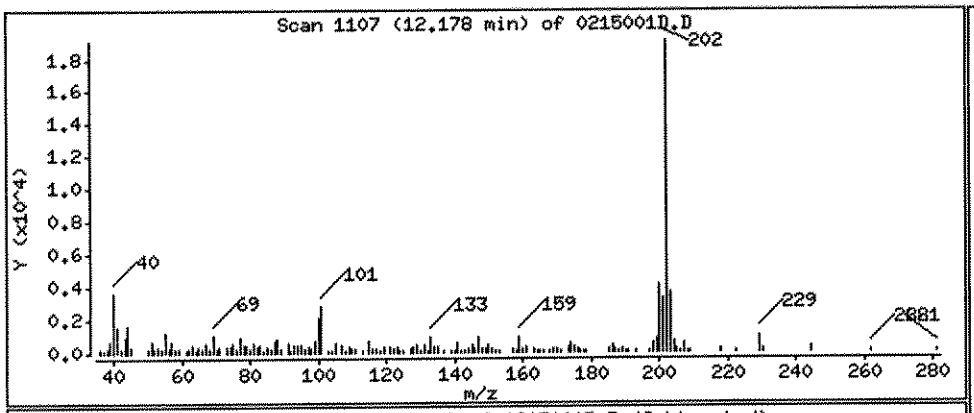
Client ID: FLC-4-SS03-0006-022 Instrument: bna4.i

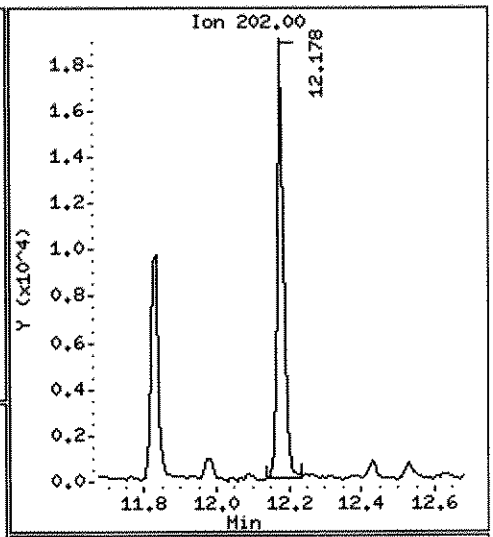
Sample Info: 1202150-01;10;15;1000;1;ug/Kg;22-FEB-2012

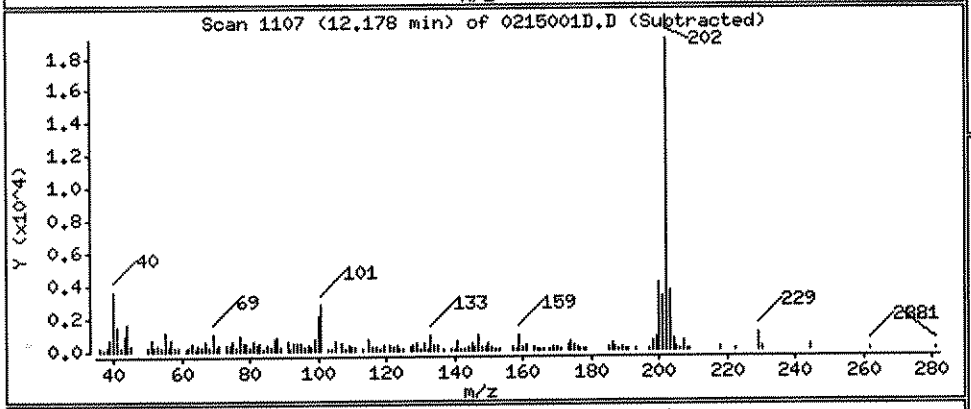
Volume Injected (uL): 1.0 Operator: MEC

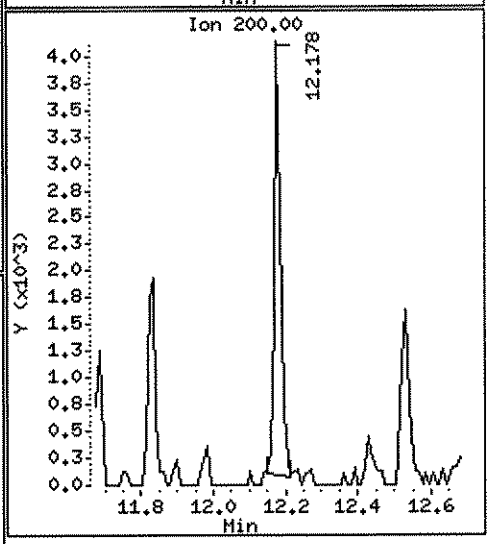
Column phase: fused silica Column diameter: 0.25

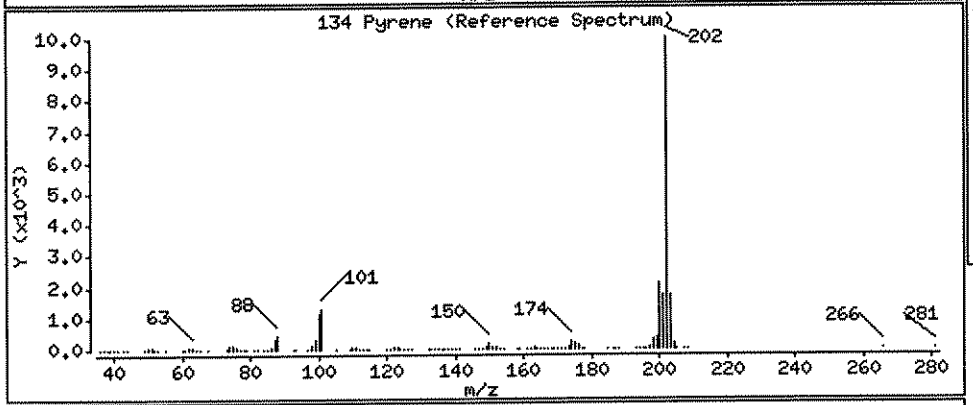
134 Pyrene Concentration: 183.7 ug/Kg

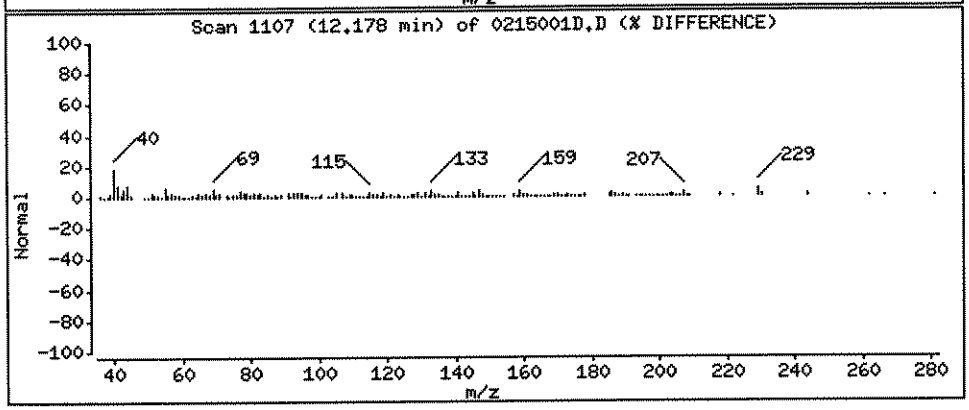






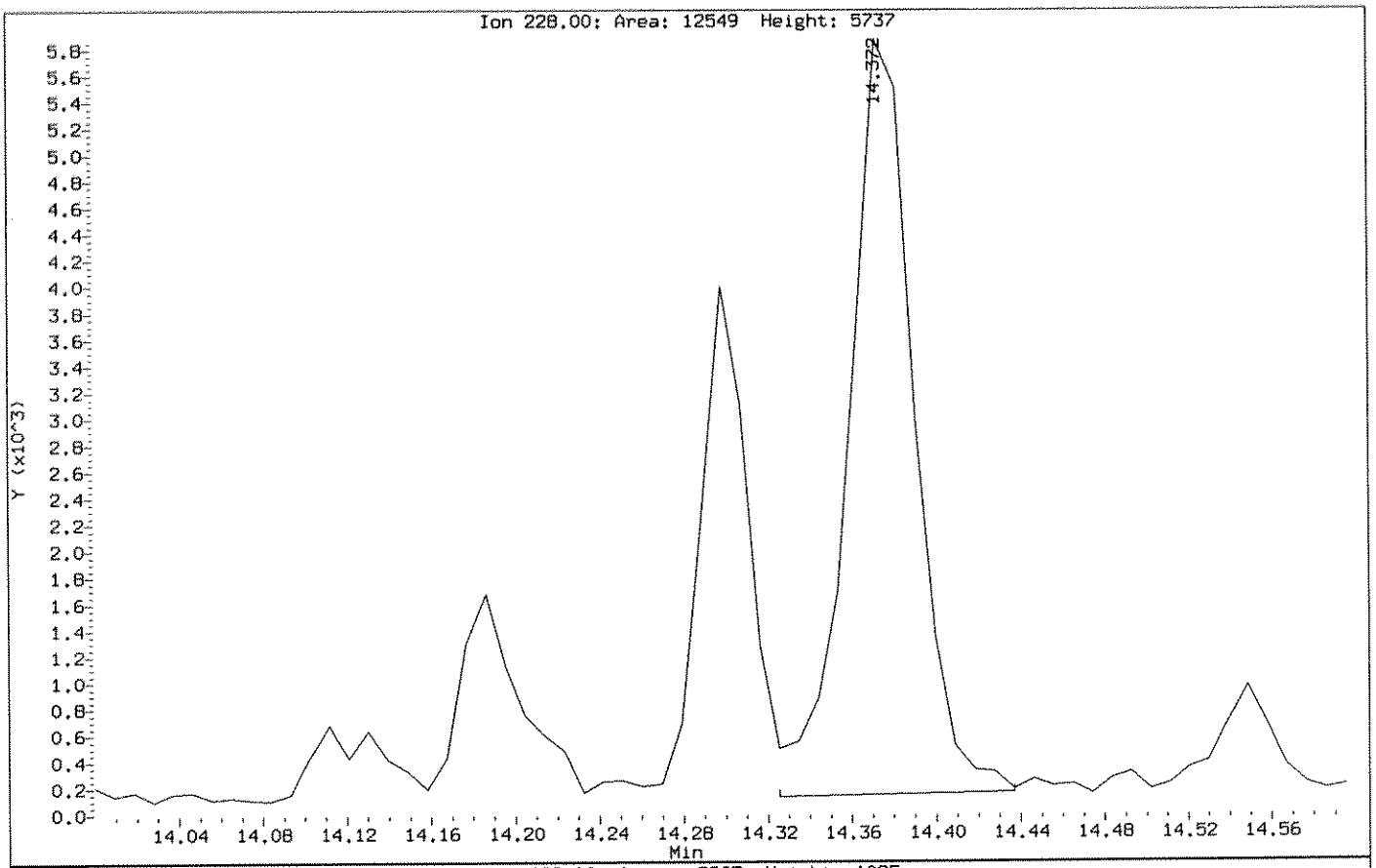


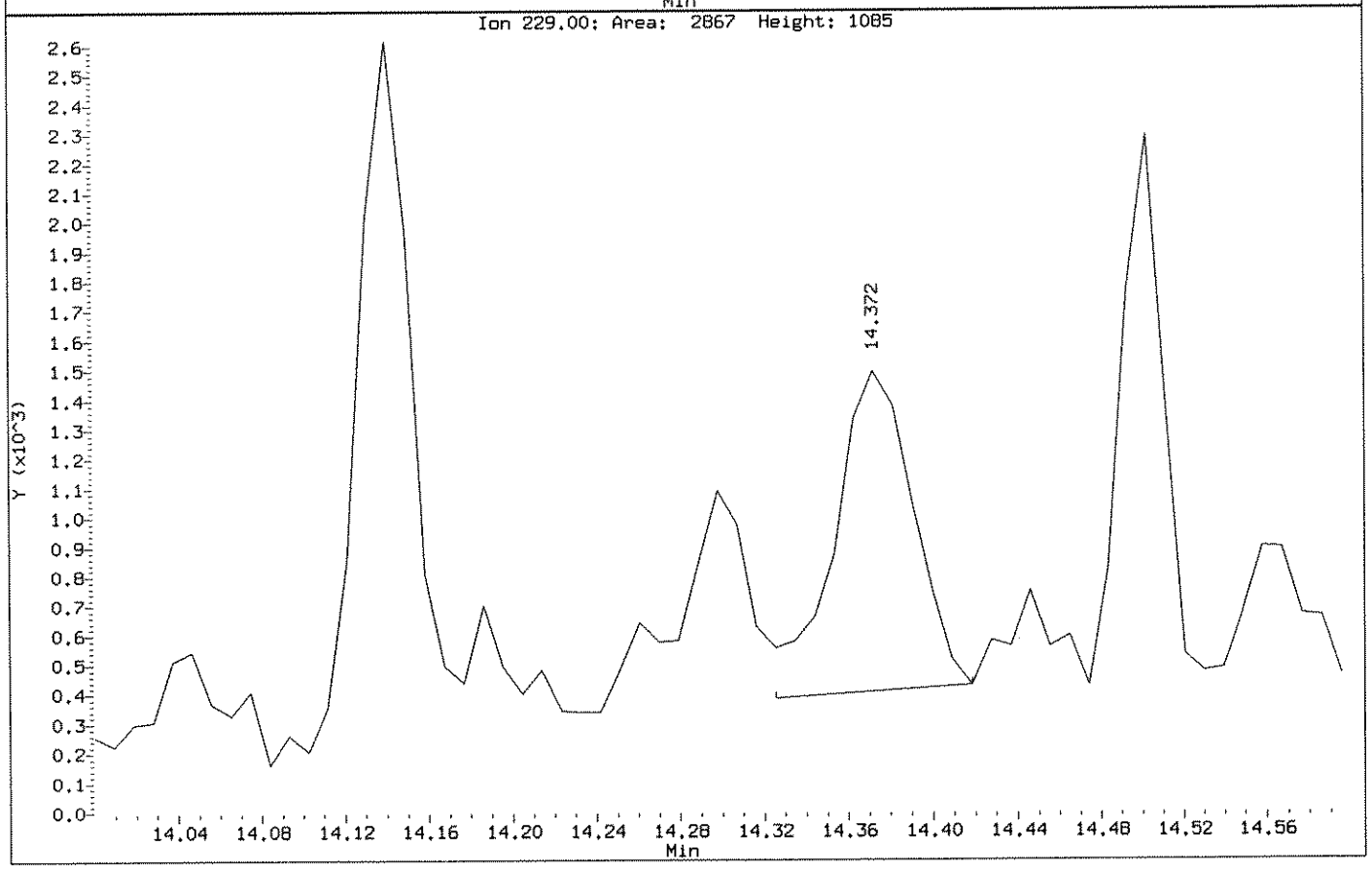




Data File: \\ELABNSH05\TARGET\chem\bna4.i\022412B4.b\0215001D.D
Injection Date: 24-FEB-2012 20:01
Instrument: bna4.i
Client Sample ID: FLC-4-SS03-0006-022

Compound: Benzo(a)anthracene
CAS Number: 56-55-3





Data File: \\ELABNSH05\TARGET\chem\bna4.i\022412B4.b\0215001D.D

Date : 24-FEB-2012 20:01

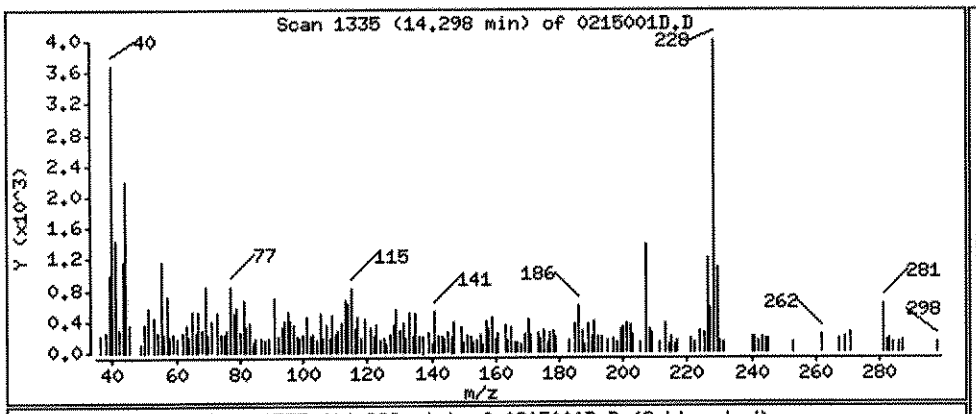
Client ID: FLC-4-SS03-0006-022 | Instrument: bna4.i

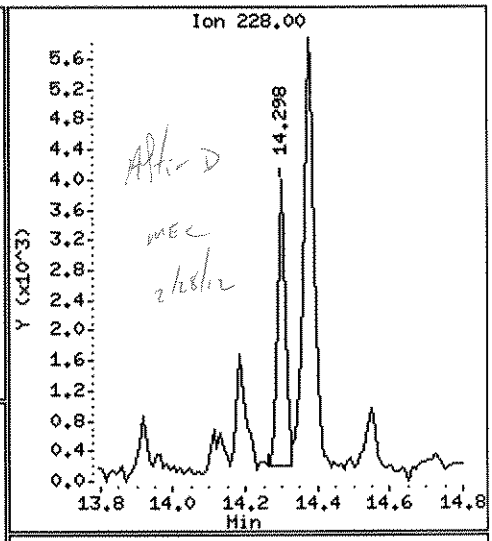
Sample Info: 1202150-01;10;15;1000;1;ug/Kg;22-FEB-2012

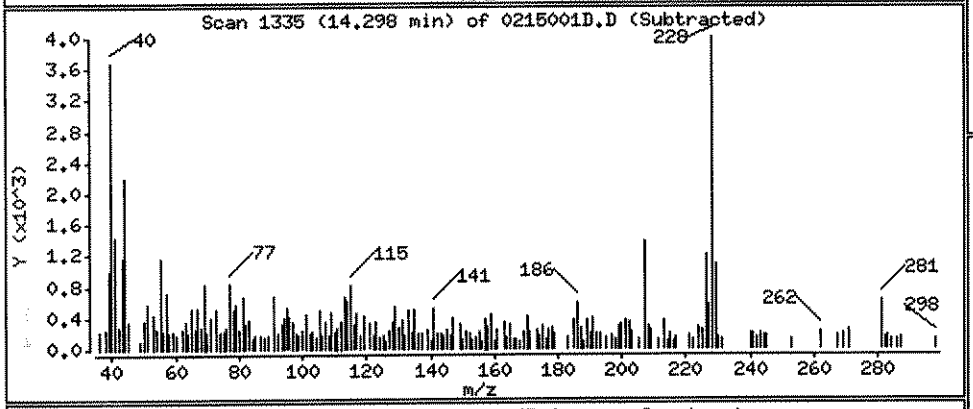
Volume Injected (uL): 1.0 | Operator: MEC

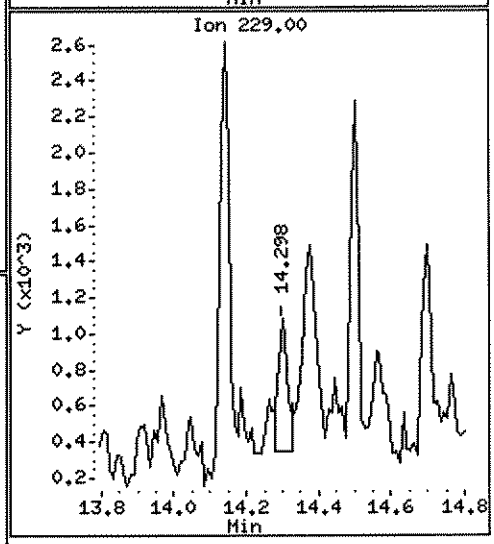
Column phase: fused silica | Column diameter: 0.25

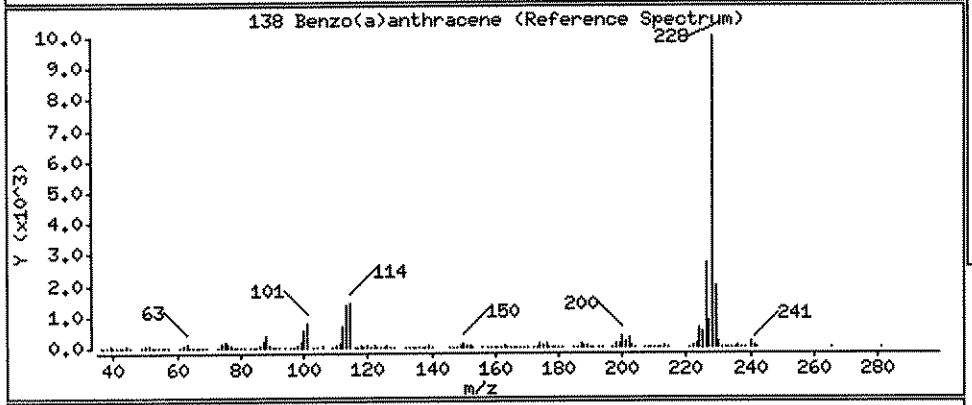
138 Benzo(a)anthracene | Concentration: 72.92 ug/Kg

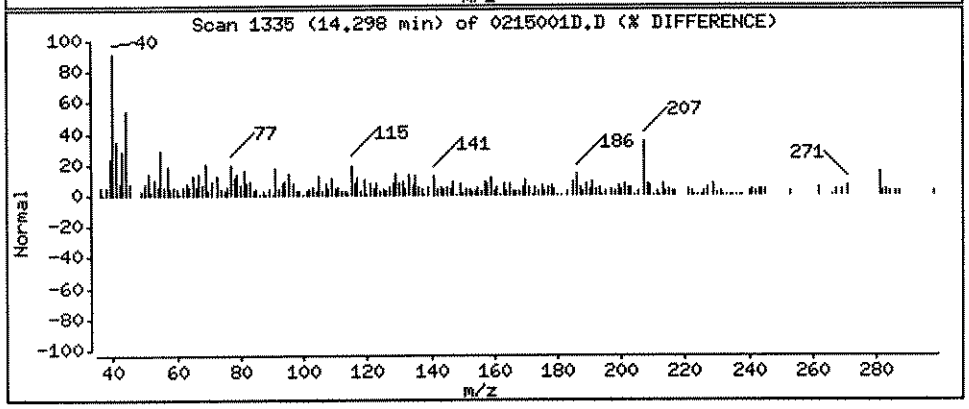












Data File: \\ELABNSH05\TARGET\chem\bna4.i\022412B4.b\0215001D.D

Date : 24-FEB-2012 20:01

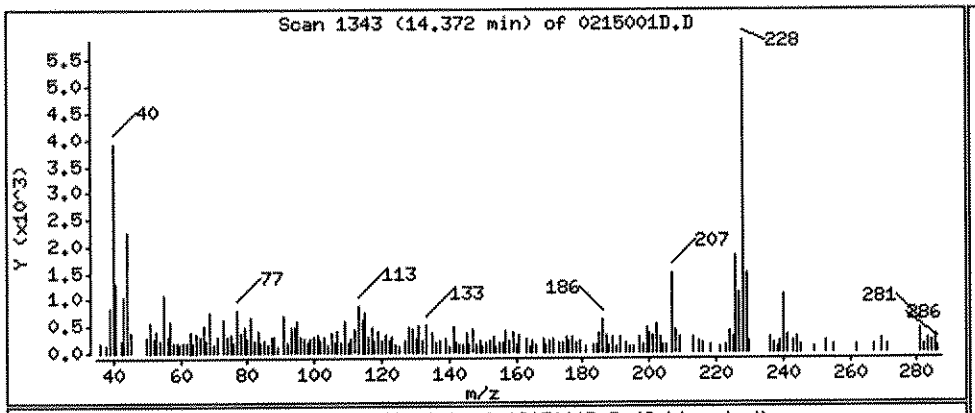
Client ID: FLC-4-SS03-0006-022 Instrument: bna4.i

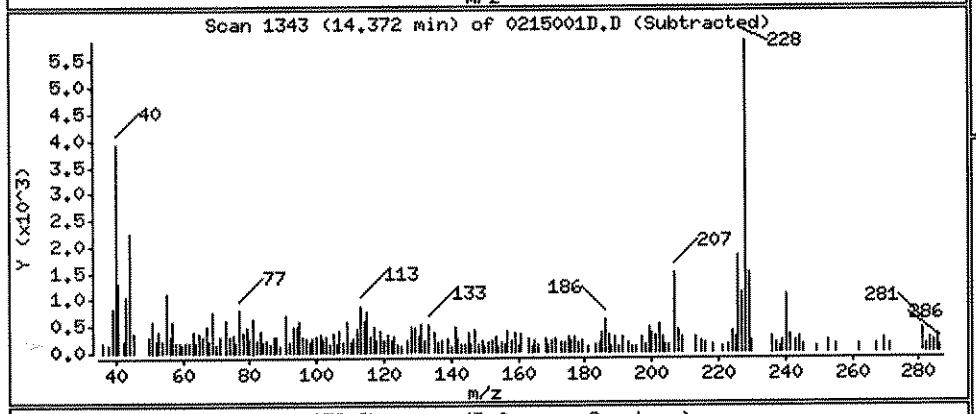
Sample Info: 1202150-01;10;15;1000;1;ug/Kg;22-FEB-2012

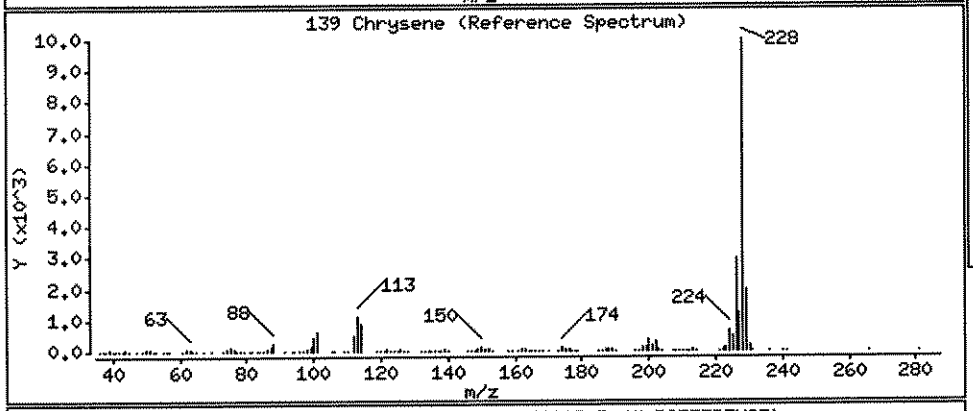
Volume Injected (uL): 1.0 Operator: MEC

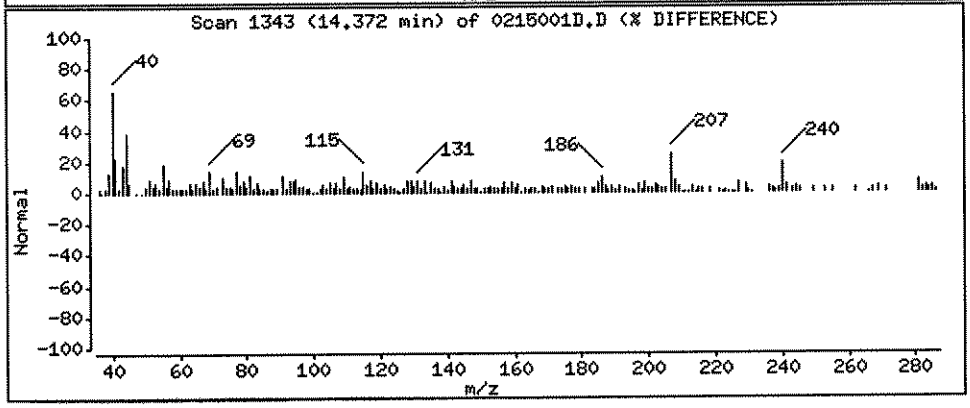
Column phase: fused silica Column diameter: 0.25

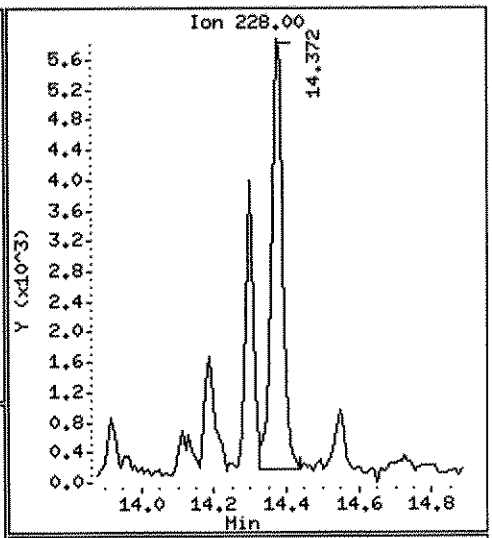
139 Chrysene Concentration: 151.3 ug/Kg

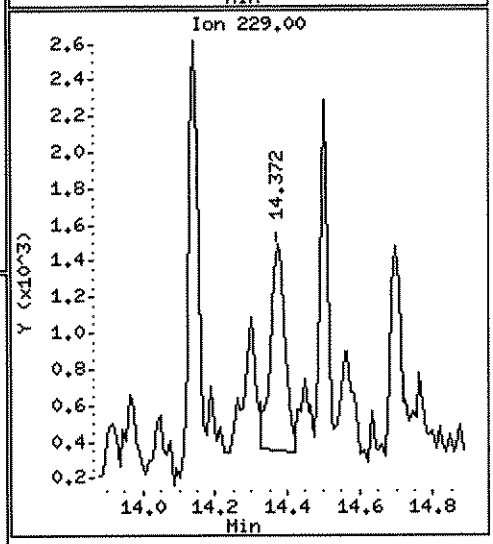












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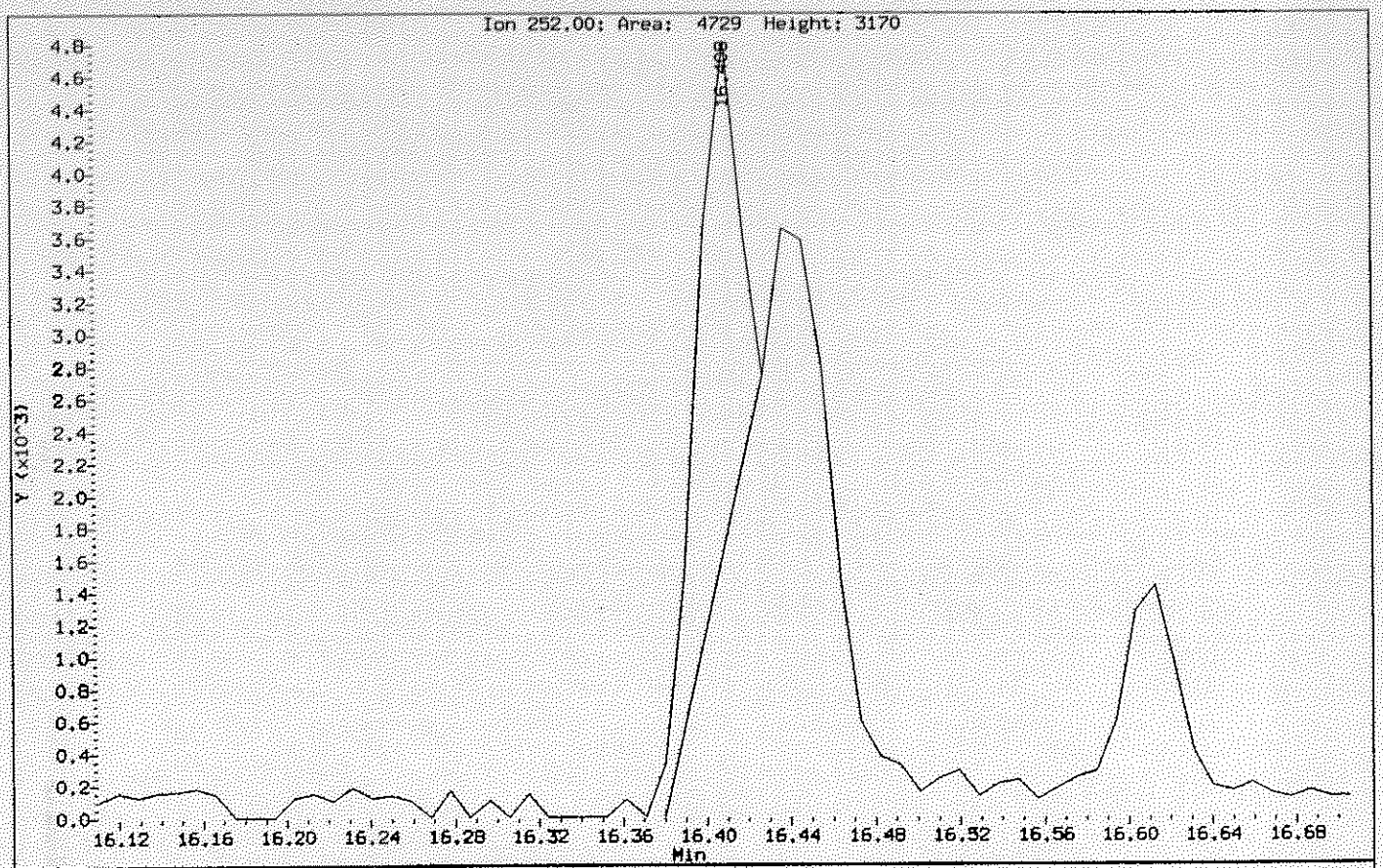
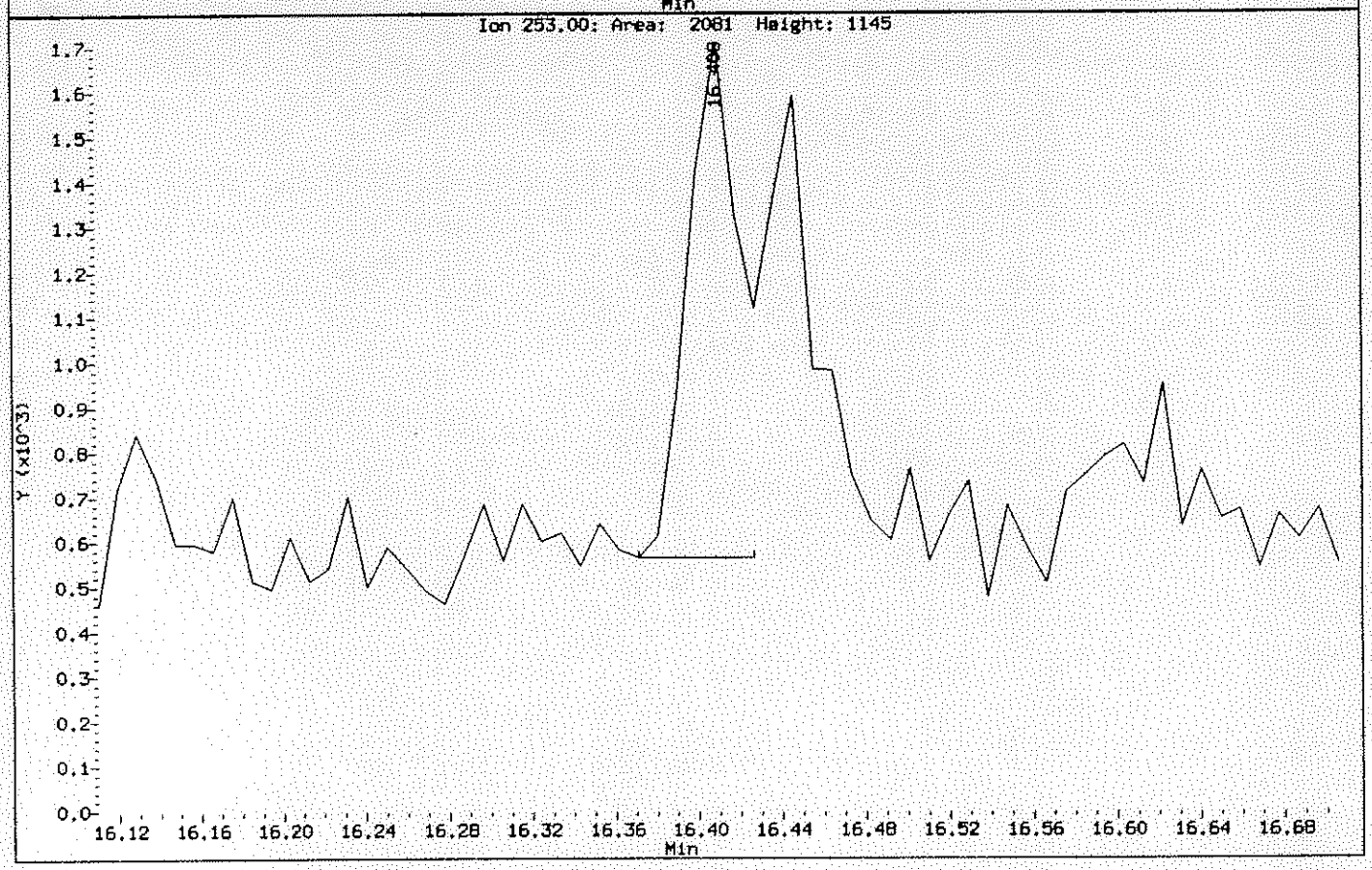
Injection Date: 24-FEB-2012 20:01
Instrument: bna4.i
Client Sample ID: FLC-4-5503-0006-022

Compound: Benzo(b)fluoranthene
CAS Number: 205-99-2





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Date : 24-FEB-2012 20:01

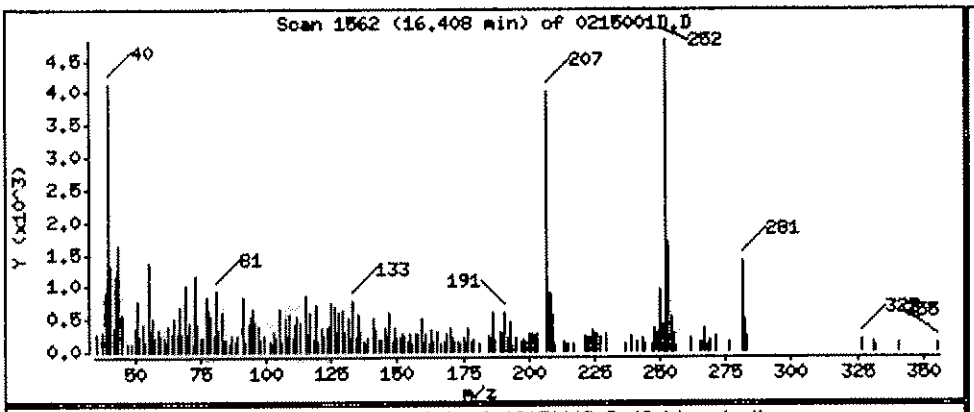
Client ID: FLC-4-SS03-0006-022 Instrument: bna4.i

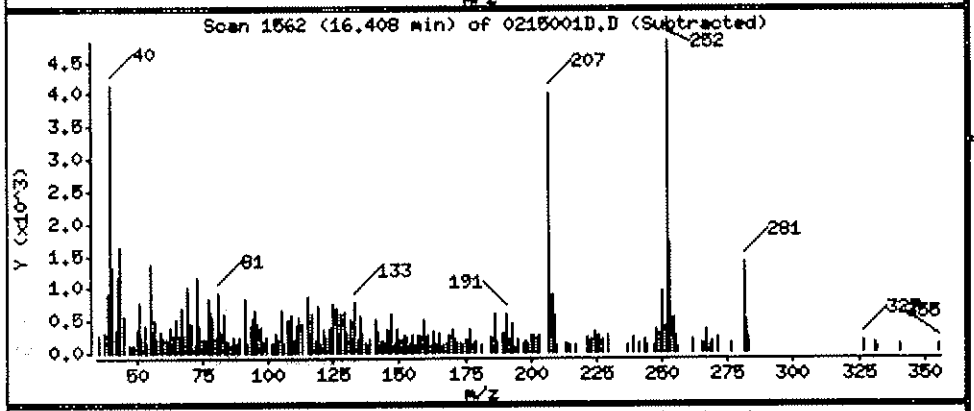
Sample Info: 1202150-01;10;15;1000;1;ug/Kg;22-FEB-2012

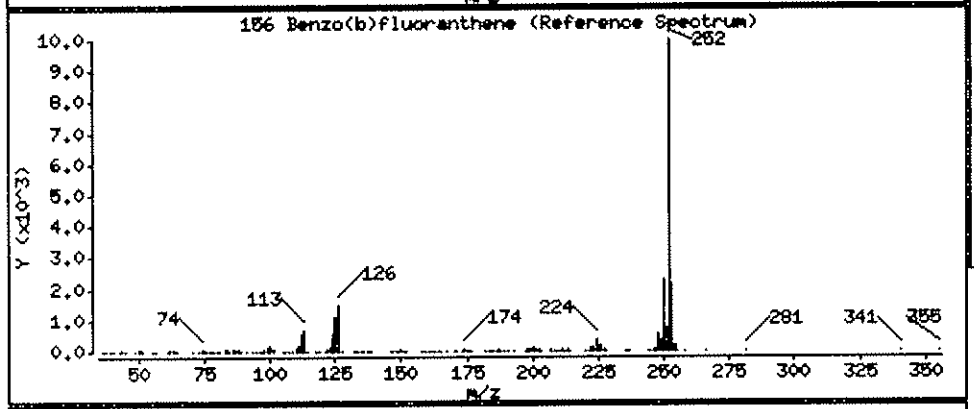
Volume Injected (uL): 1.0 Operator: MEC

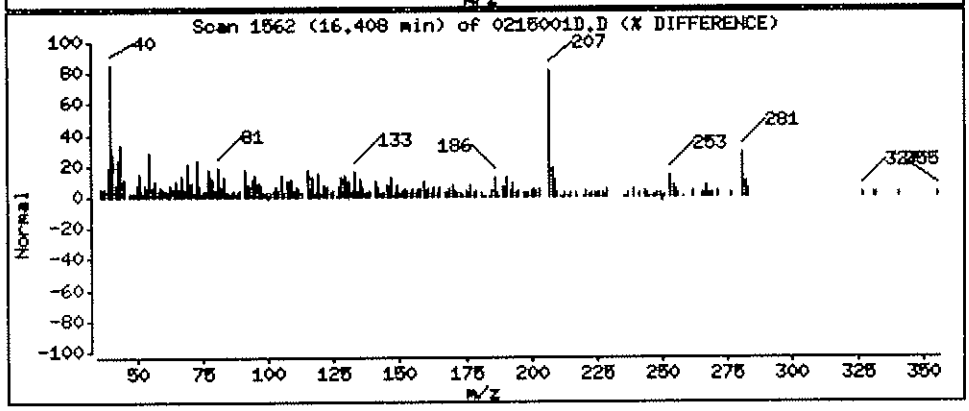
Column phase: fused silica Column diameter: 0.25

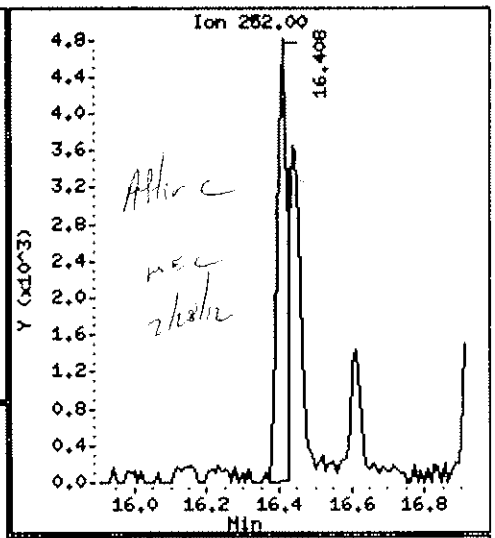
156 Benzo(b)fluoranthene Concentration: 132.5 ug/Kg

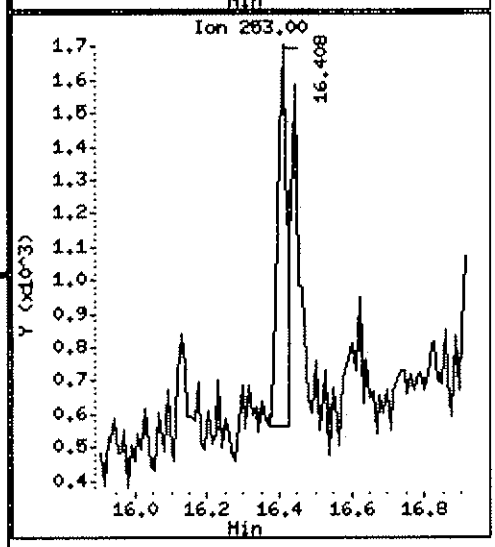












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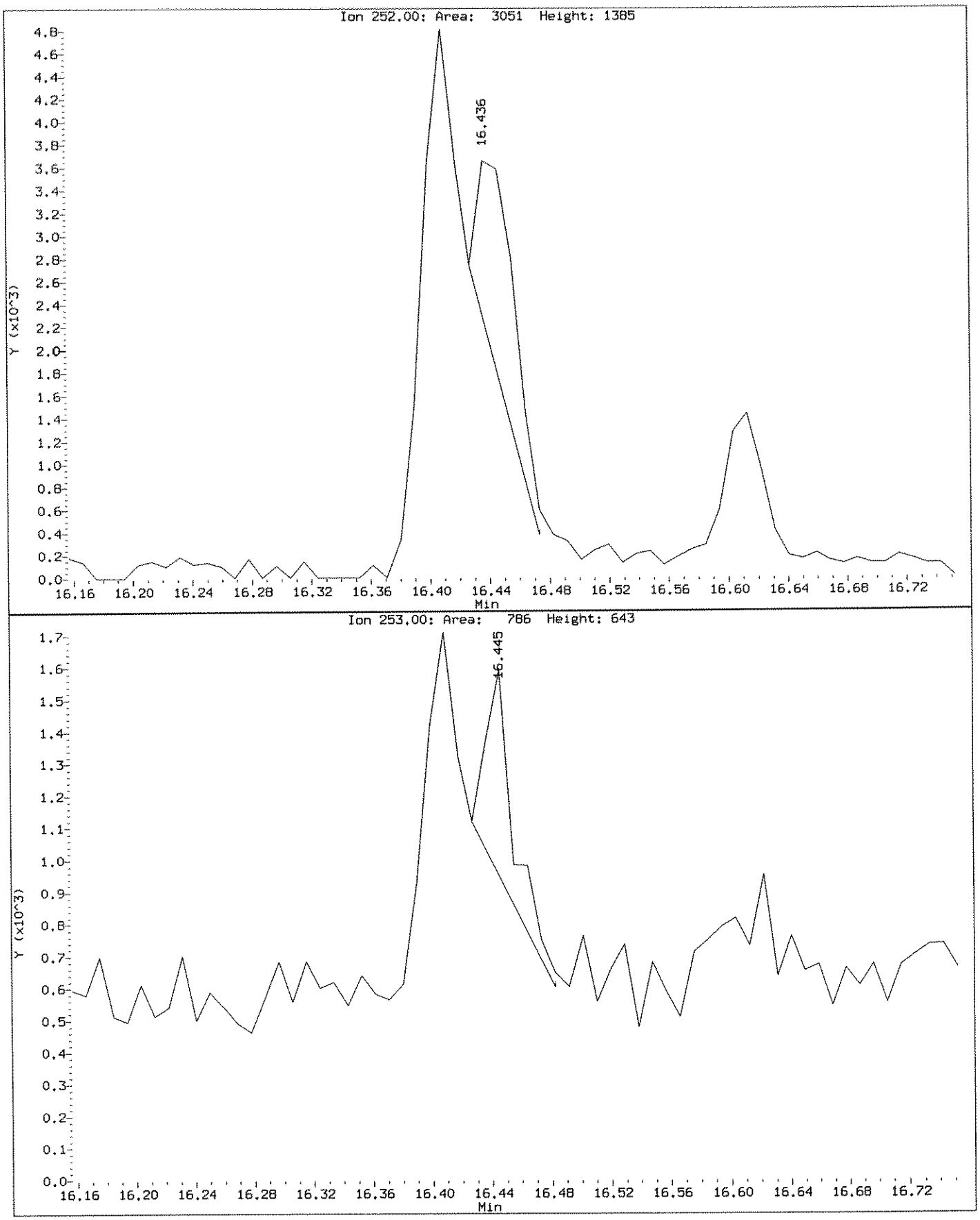
Injection Date: 24-FEB-2012 20:01
Instrument: bna4.i
Client Sample ID: FLC-4-SS03-0006-022

Compound: Benzo(k)fluoranthene
CAS Number: 207-08-9



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Date : 24-FEB-2012 20:01

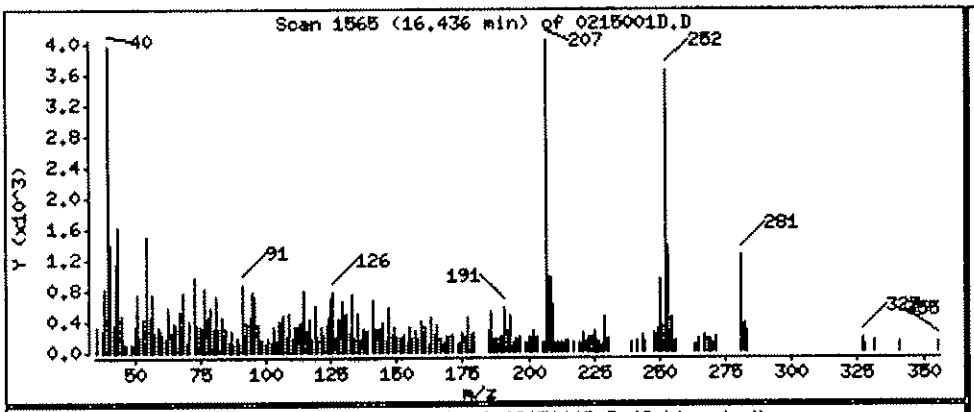
Client ID: FLC-4-SS03-0006-022 | Instrument: bna4.i

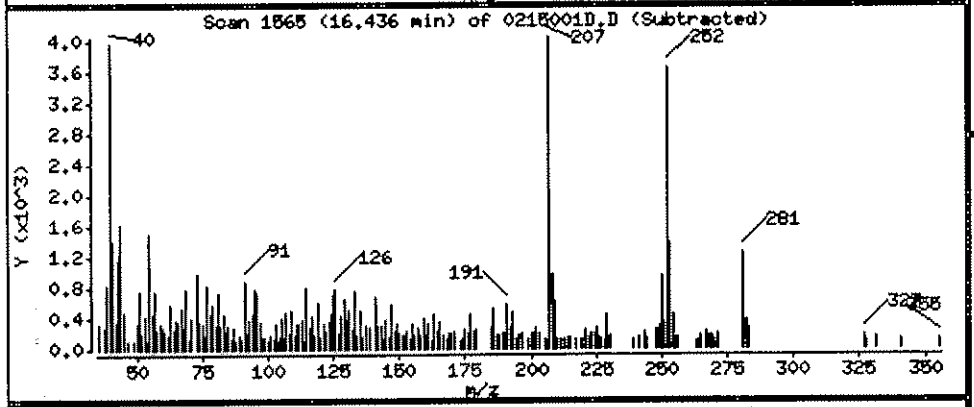
Sample Info: 1202150-01;10;15;1000;1;ug/Kg;22-FEB-2012

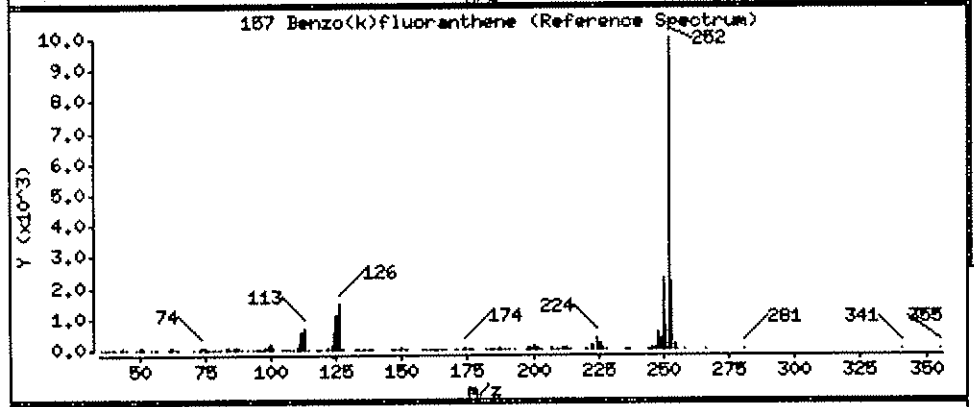
Volume Injected (uL): 1.0 | Operator: MEC

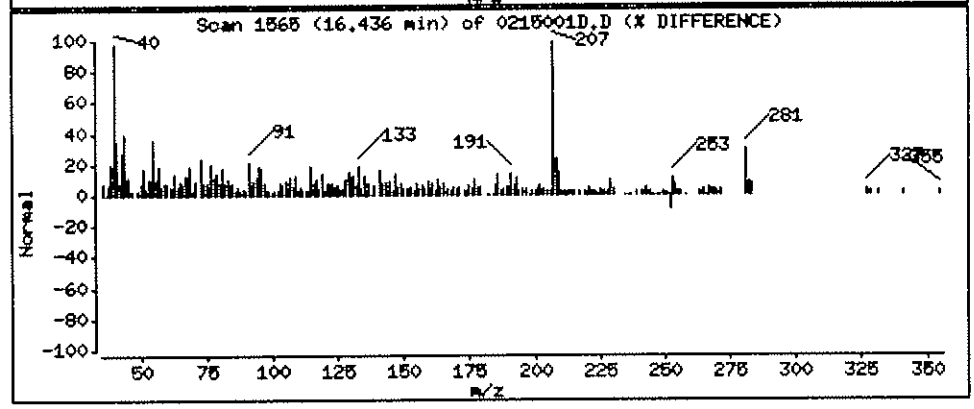
Column phase: fused silica | Column diameter: 0.25

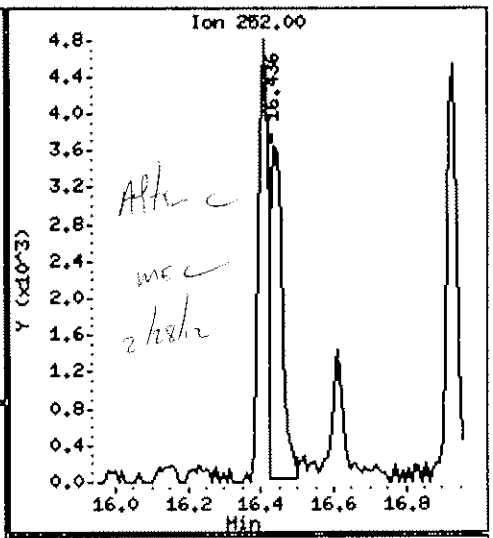
157 Benzo(k)fluoranthene | Concentration: 123.9 ug/Kg

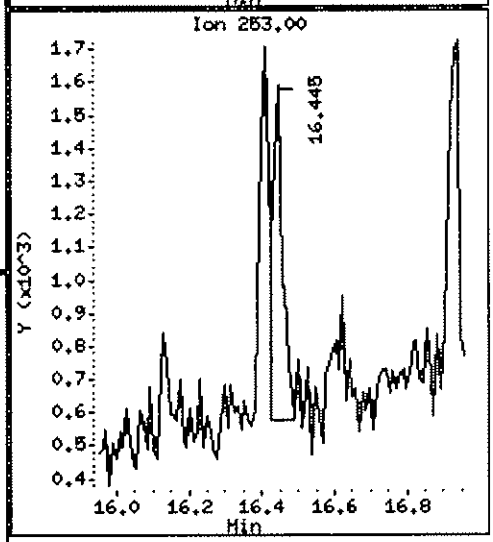












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Date : 24-FEB-2012 20:01

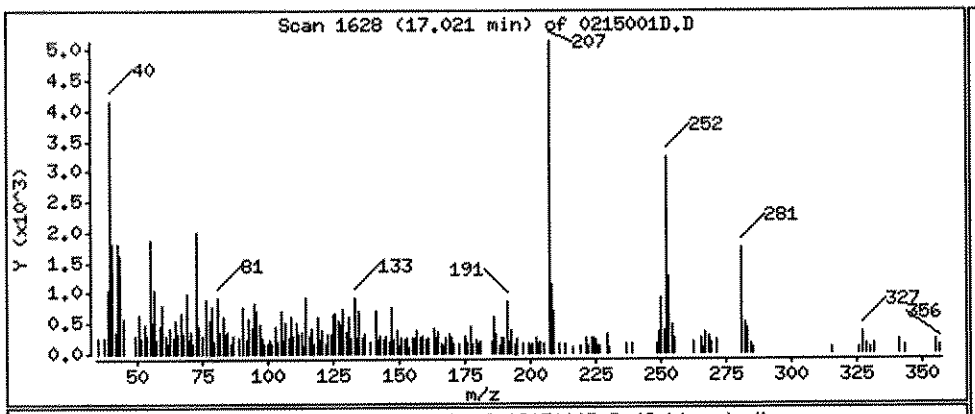
Client ID: FLC-4-SS03-0006-022 Instrument: bna4.i

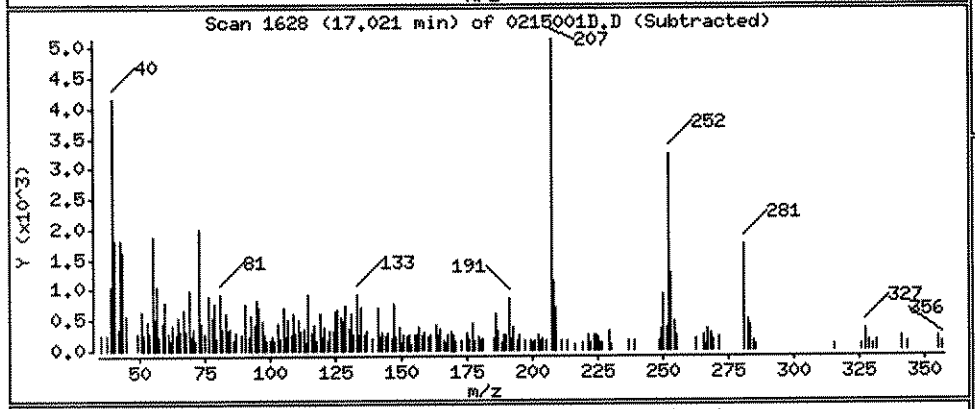
Sample Info: 1202150-01;10;15;1000;1;ug/Kg;22-FEB-2012

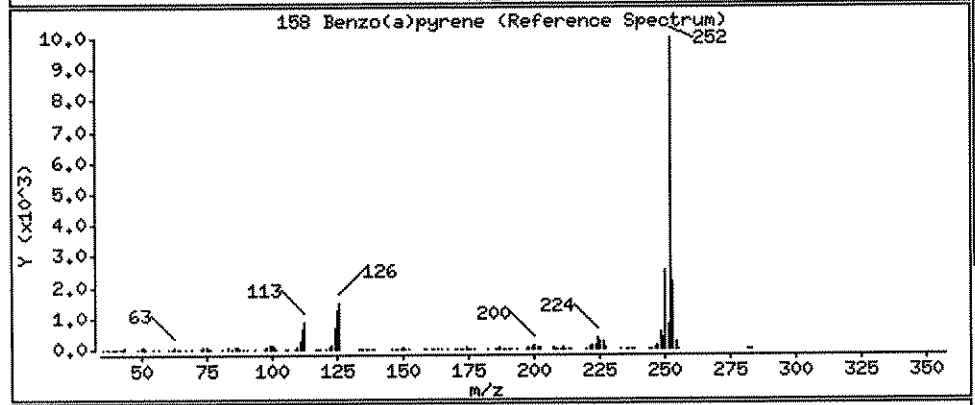
Volume Injected (uL): 1.0 Operator: MEC

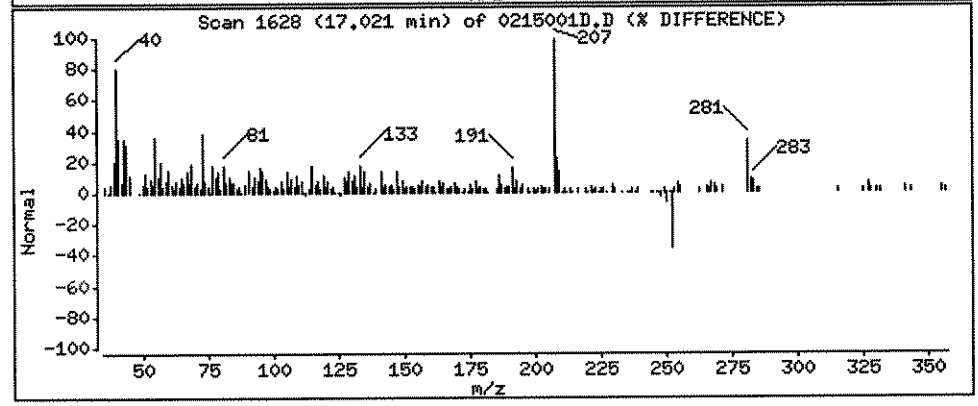
Column phase: fused silica Column diameter: 0.25

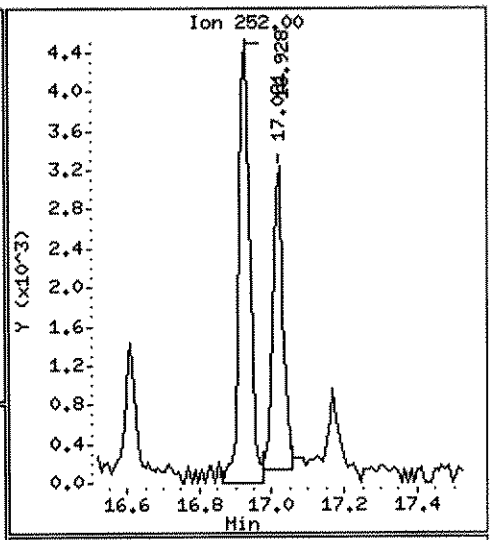
158 Benzo(a)pyrene Concentration: 116.7 ug/Kg

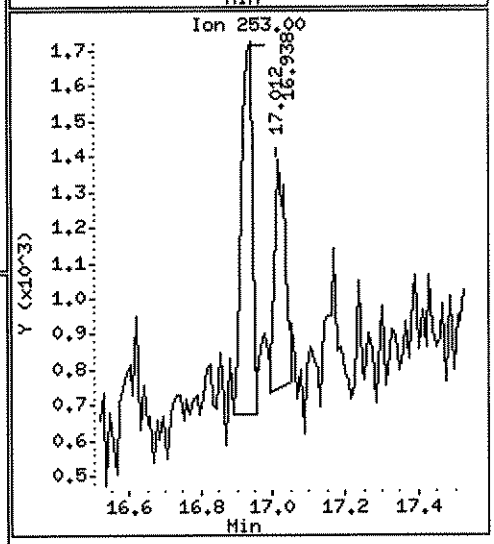












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Date : 24-FEB-2012 20:01

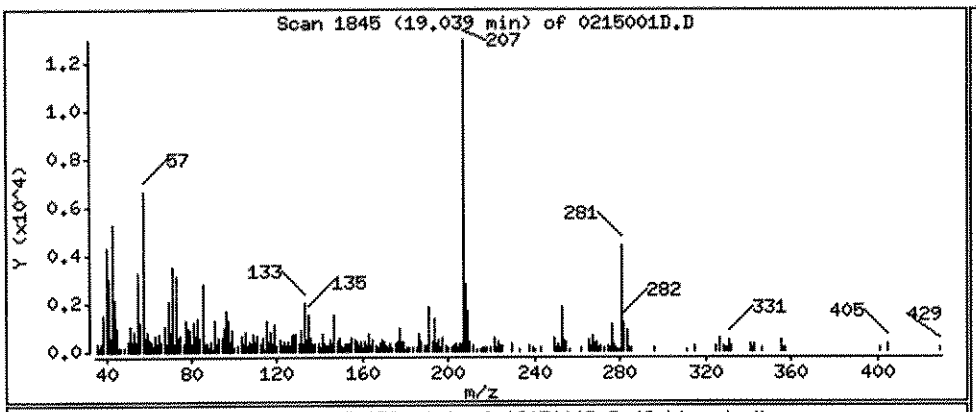
Client ID: FLC-4-SS03-0006-022 Instrument: bna4.i

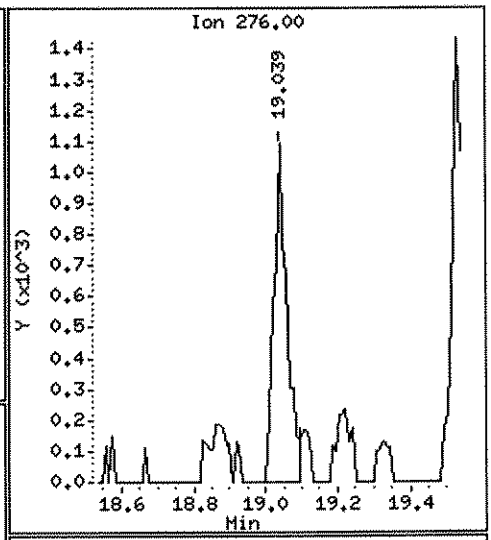
Sample Info: 1202150-01;10;15;1000;1;ug/Kg;22-FEB-2012

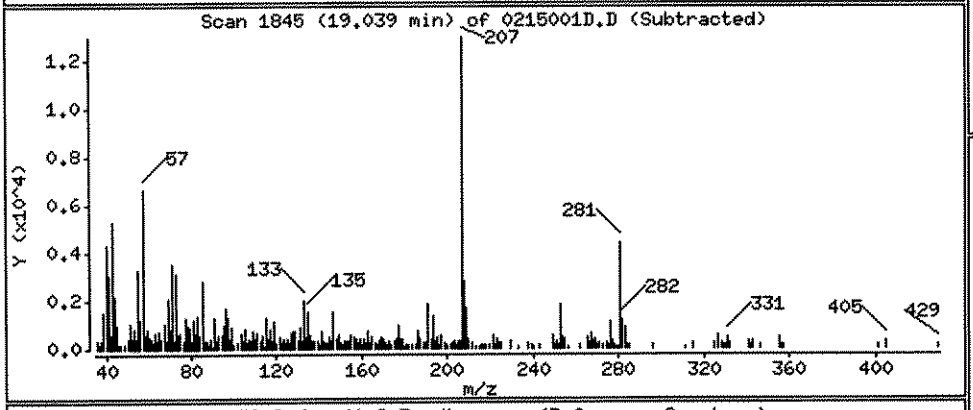
Volume Injected (uL): 1.0 Operator: MEC

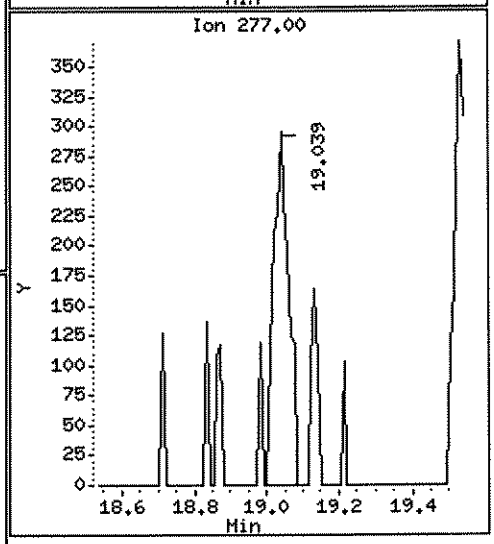
Column phase: fused silica Column diameter: 0.25

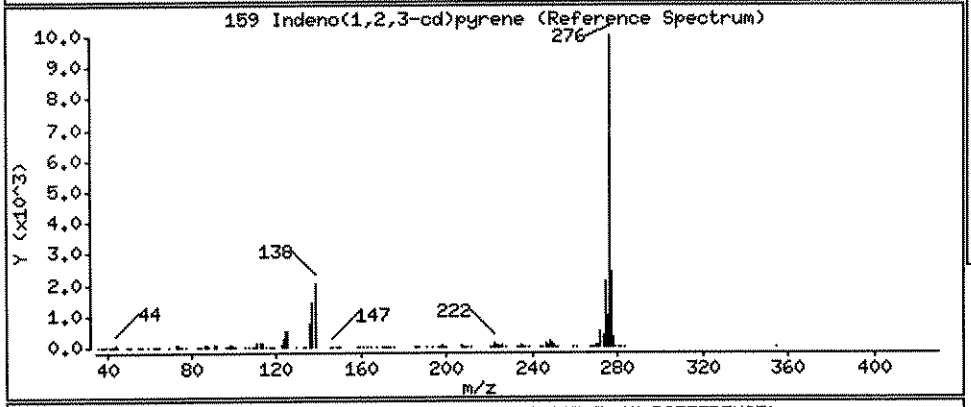
159 Indeno(1,2,3-cd)pyrene Concentration: 65.64 ug/Kg

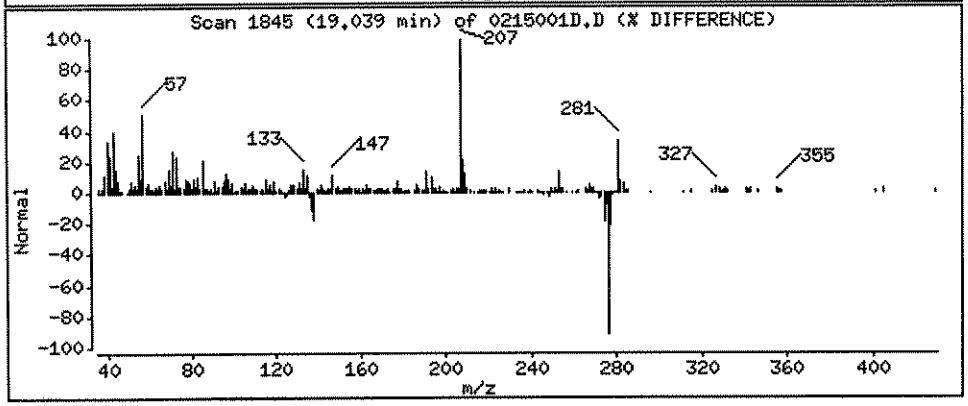












Data File: \\ELABNSH05\TARGET\chem\bna4.i\022412B4.b\0215001D.D

Date : 24-FEB-2012 20:01

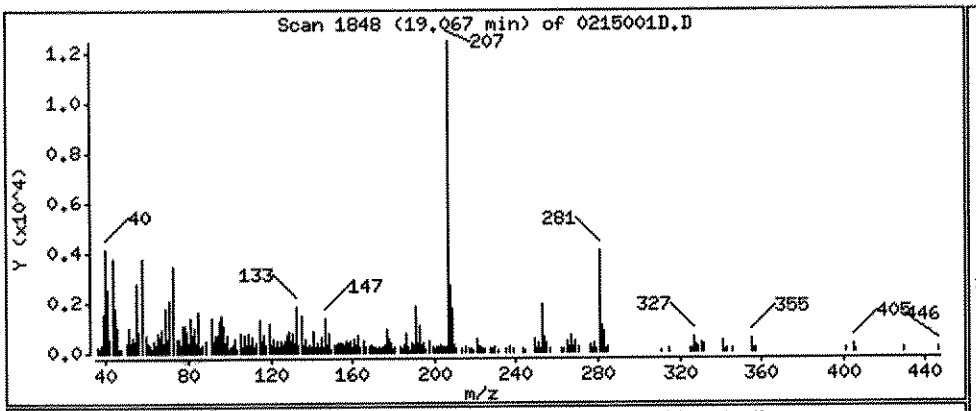
Client ID: FLC-4-SS03-0006-022 Instrument: bna4.i

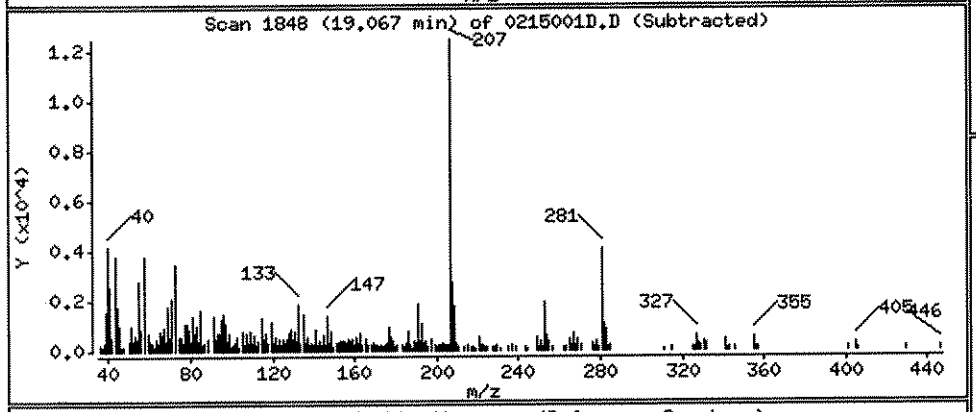
Sample Info: 1202150-01;10;15;1000;1;ug/Kg;22-FEB-2012

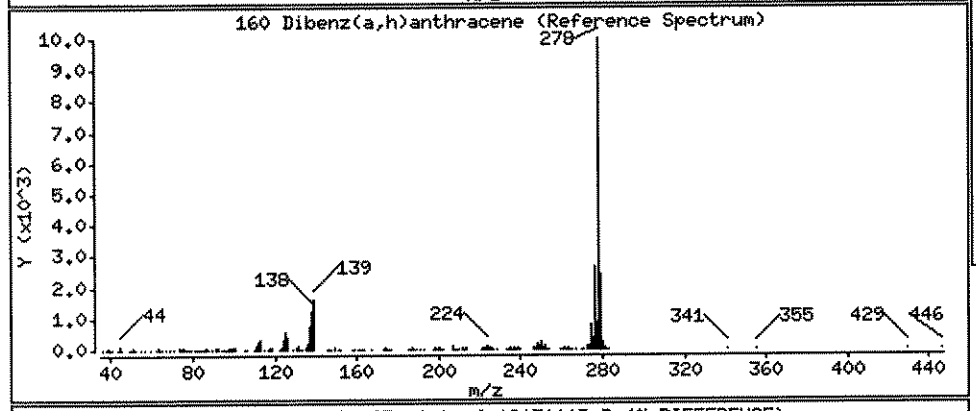
Volume Injected (uL): 1.0 Operator: MEC

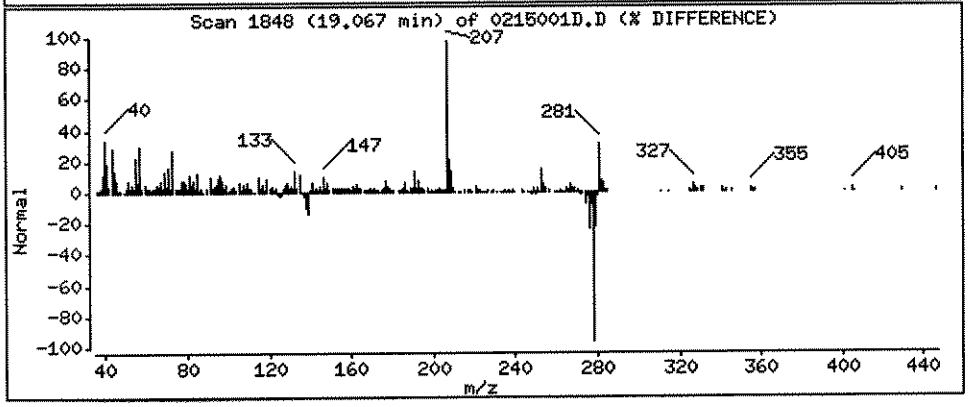
Column phase: fused silica Column diameter: 0.25

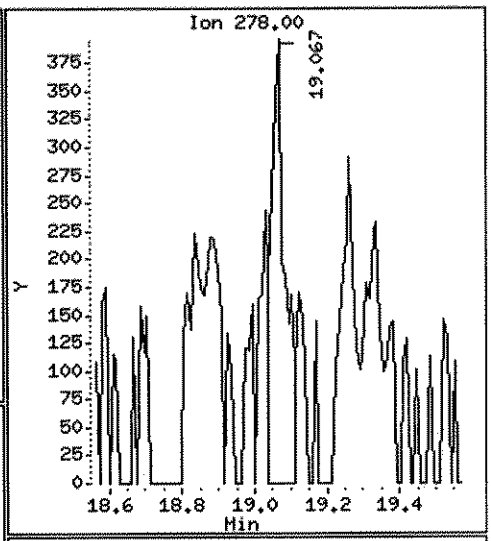
160 Dibenz(a,h)anthracene Concentration: 33.25 ug/Kg

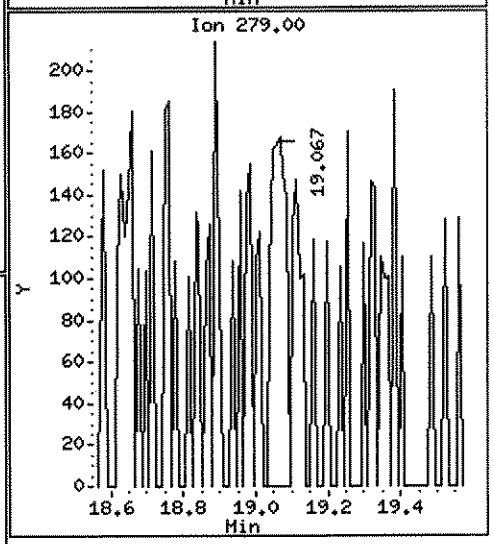












Data File: \\ELABNSH05\TARGET\chem\bna4.i\022412B4.b\0215001D.D

Date : 24-FEB-2012 20:01

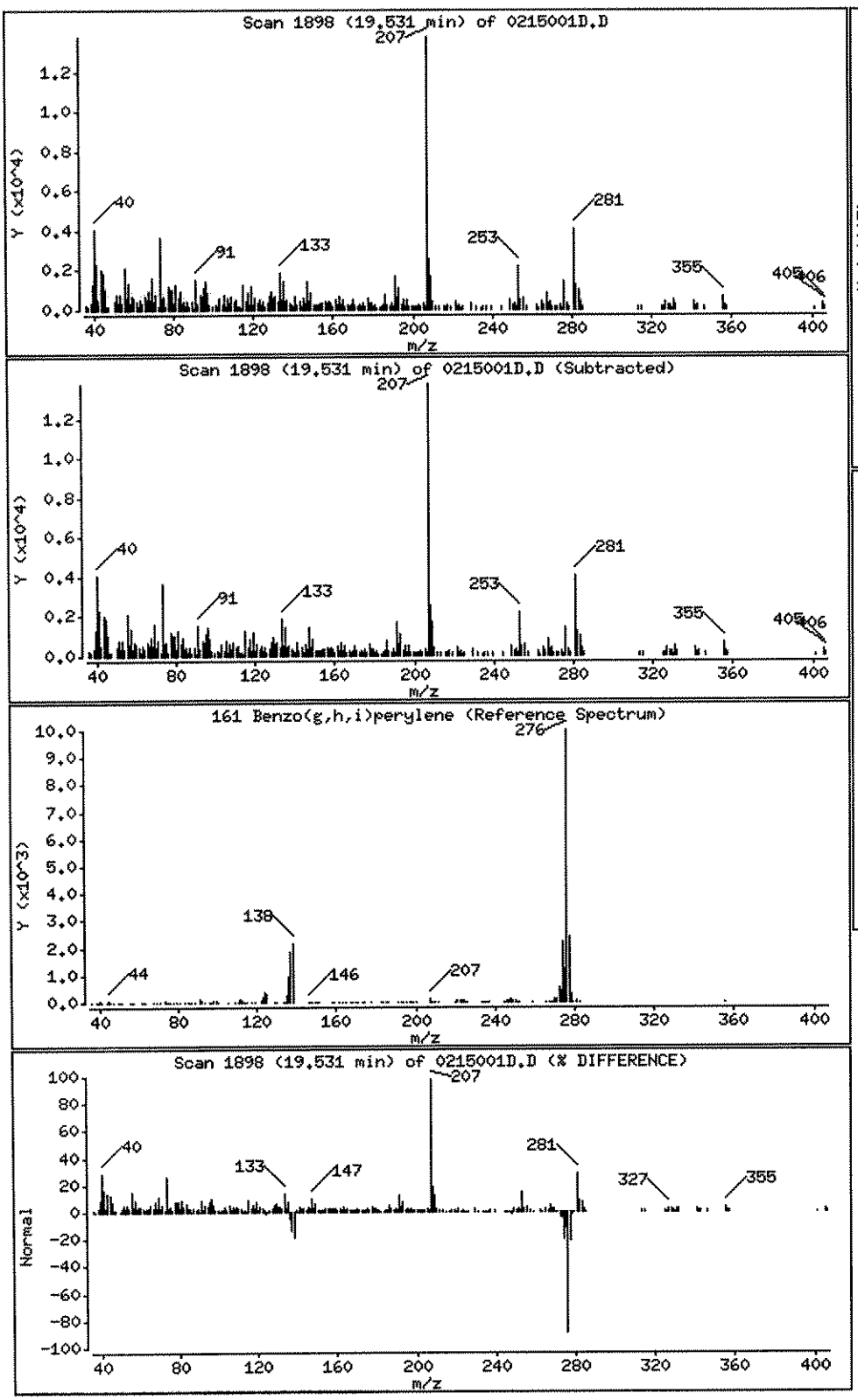
Client ID: FLC-4-SS03-0006-022 Instrument: bna4.i

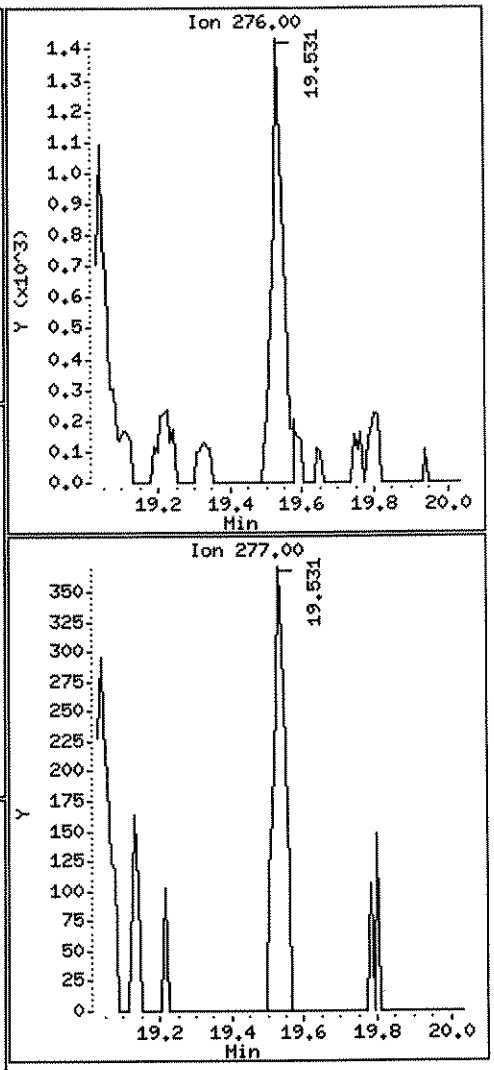
Sample Info: 1202150-01;10;15;1000;1;ug/Kg;22-FEB-2012

Volume Injected (uL): 1.0 Operator: MEC

Column phase: fused silica Column diameter: 0.25

161 Benzo(g,h,i)perylene Concentration: 86.02 ug/Kg





Data File: \\ELABNSH05\TARGET\chem\bna4.i\022412B4.b\0215001M.D
Report Date: 28-Feb-2012 10:46

J.H. 3.1.12

Laboratory Name

Data file : \\ELABNSH05\TARGET\chem\bna4.i\022412B4.b\0215001M.D
Lab Smp Id: 2B22014-MS1 Client Smp ID: 2B22014-MS1
Inj Date : 24-FEB-2012 20:29 MS Autotune Date: 15-FEB-2012 09:23
Operator : MEC Inst ID: bna4.i
Smp Info : 2B22014-MS1;10;15;1000;1;ug/Kg;22-FEB-2012
Misc Info : ;3;MS;;;2B22014;pahlow.sub;
Comment :
Method : \\ELABNSH05\TARGET\chem\bna4.i\022412B4.b\IXBN4LOW.m
Meth Date : 28-Feb-2012 09:32 mcobb Quant Type: ISTD
Cal Date : 20-FEB-2012 16:29 Cal File: SEQ-CAL1.D
Als bottle: 23 QC Sample: MS
Dil Factor: 10.00000
Integrator: HP RTE Compound Sublist: pahlow.sub
Target Version: 4.04
Processing Host: TARGET09_VM

Concentration Formula: Amt * DF * Uf * Vt*Vi/(Amt * Vi * (Solids/100))

Name	Value	Description
DF	10.000	Dilution Factor
Uf	1.000	ng unit correction factor
Vt	1000.000	Volume of final extract (uL)(1000 low, 2
Amt	15.000	Mass of initial extraction
Vi	1.000	Volume injected (uL)
Solids	100.000	Percent Solids

Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS ON-COLUMN (ng/ul)	FINAL (ug/Kg)
51 Naphthalene	128	6.274	6.274	(0.615)	9918	0.11942	79.62(R)
55 2-Methylnaphthalene	142	7.092	7.092	(0.696)	6025	0.11135	74.23(R)
56 1-Methylnaphthalene	142	7.222	7.232	(0.708)	5695	0.10866	72.44
$ 74 2-Fluorobiphenyl	172	7.557	7.557	(0.741)	289026	4.37596	2917
77 Acenaphthylene	152	8.208	8.208	(0.805)	14050	0.18041	120.3(R)
80 Acenaphthene	153	8.431	8.431	(0.827)	6433	0.12288	81.92(R)
88 Fluorene	166	9.045	9.045	(0.887)	6397	0.11248	74.99(R)
* 102 Phenanthrene-d10	188	10.197	10.197	(1.000)	82156	1.00000	
111 Phenanthrene	178	10.225	10.225	(1.003)	12805	0.15783	105.2(R)
112 Anthracene	178	10.281	10.281	(1.008)	11207	0.14327	95.51(R)
116 Fluoranthene	202	11.833	11.833	(1.160)	23023	0.27619	184.1(R)
134 Pyrene	202	12.177	12.177	(1.194)	32785	0.38180	254.5(R)
* 154 Perylene-d12	264	17.123	17.123	(1.000)	42254	1.00000	

MIF

Data File: \\ELABNSH05\TARGET\chem\bna4.i\022412B4.b\0215001M.D
Report Date: 28-Feb-2012 10:46

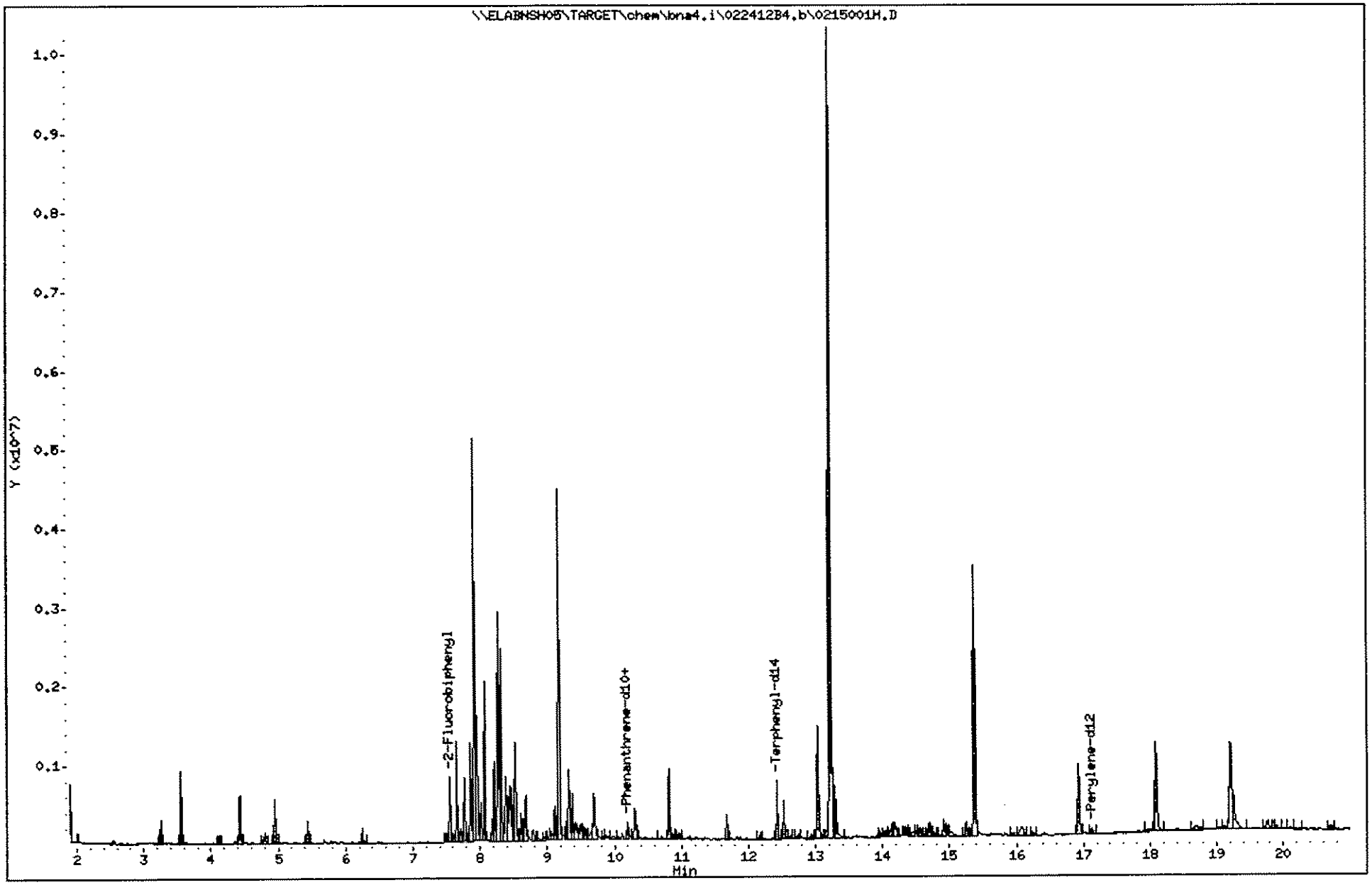
Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS ON-COLUMN (ng/ul)	FINAL (ug/Kg)
$ 135 Terphenyl-d14	244	12.428	12.428	(1.219)	317955	5.59997	3733
138 Benzo(a)anthracene	228	14.297	14.297	(1.402)	15099	0.27858	185.7(RM)
139 Chrysene	228	14.381	14.381	(1.410)	21418	0.39529	263.5(R)
156 Benzo(b)fluoranthene	252	16.407	16.407	(0.958)	16573	0.31280	208.5(R)
157 Benzo(k)fluoranthene	252	16.444	16.454	(0.960)	17162	0.32875	219.2(RM)
158 Benzo(a)pyrene	252	17.021	17.021	(0.994)	11766	0.29626	197.5(R)
159 Indeno(1,2,3-cd)pyrene	276	19.038	19.038	(1.112)	6387	0.20238	134.9(R)
160 Dibenz(a,h)anthracene	278	19.066	19.066	(1.113)	3371	0.13416	89.44(R)
161 Benzo(g,h,i)perylene	276	19.531	19.531	(1.141)	6501	0.22868	152.4(R)

QC Flag Legend

R - Spike/Surrogate failed recovery limits.
M - Compound response manually integrated.

Data File: \\ELABNSH05\TARGET\chem\bna4.i\022412B4.b\0215001M.D
Date : 24-FEB-2012 20:29
Client ID: 2B22014-HS1
Sample Info: 2B22014-HS1;10;15;1000;1;ug/Kg;22-FEB-2012
Volume Injected (uL): 1.0
Column phase: fused silica

Instrument: bna4.i
Operator: MEC
Column diameter: 0.25

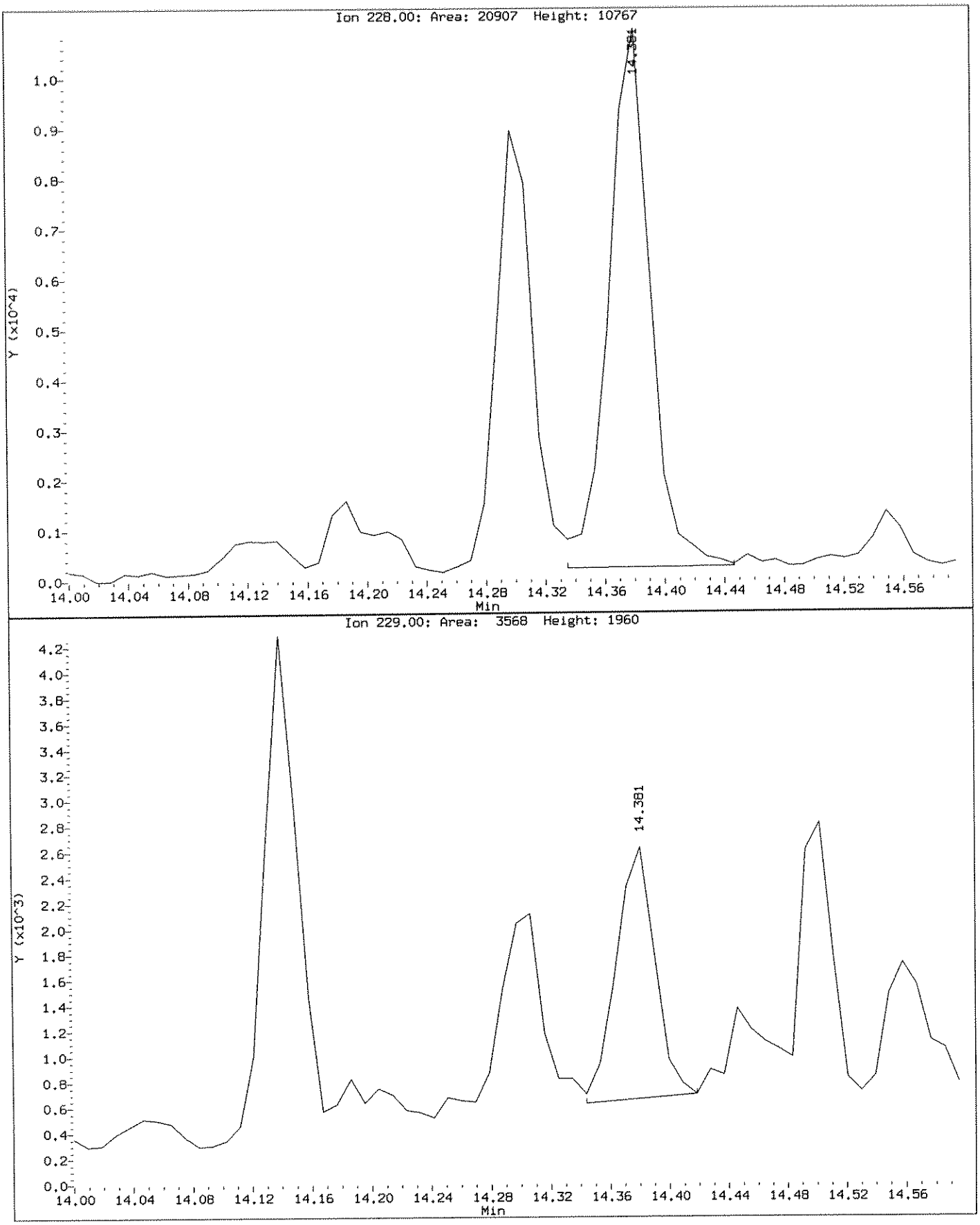


188

1202150

Data File: \\ELABNSH05\TARGET\chem\bna4.i\022412B4.b\0215001M.D
Injection Date: 24-FEB-2012 20:29
Instrument: bna4.i
Client Sample ID: 2B22014-MS1

Compound: Benzo(a)anthracene
CAS Number: 56-55-3



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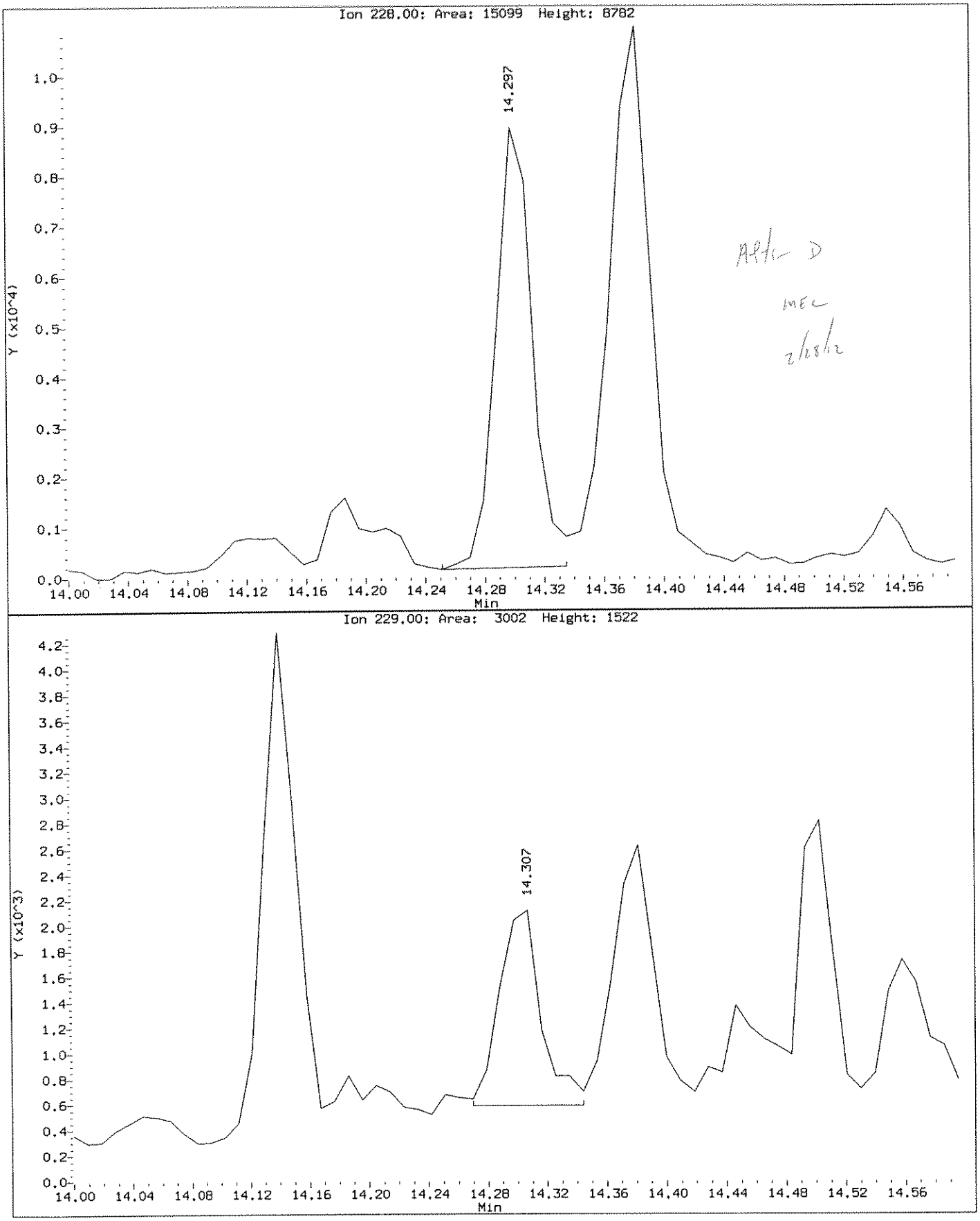
Injection Date: 24-FEB-2012 20:29
Instrument: bna4.i
Client Sample ID: 2B22014-MS1

Compound: Benzo(a)anthracene
CAS Number: 56-55-3



Affix D
MEL
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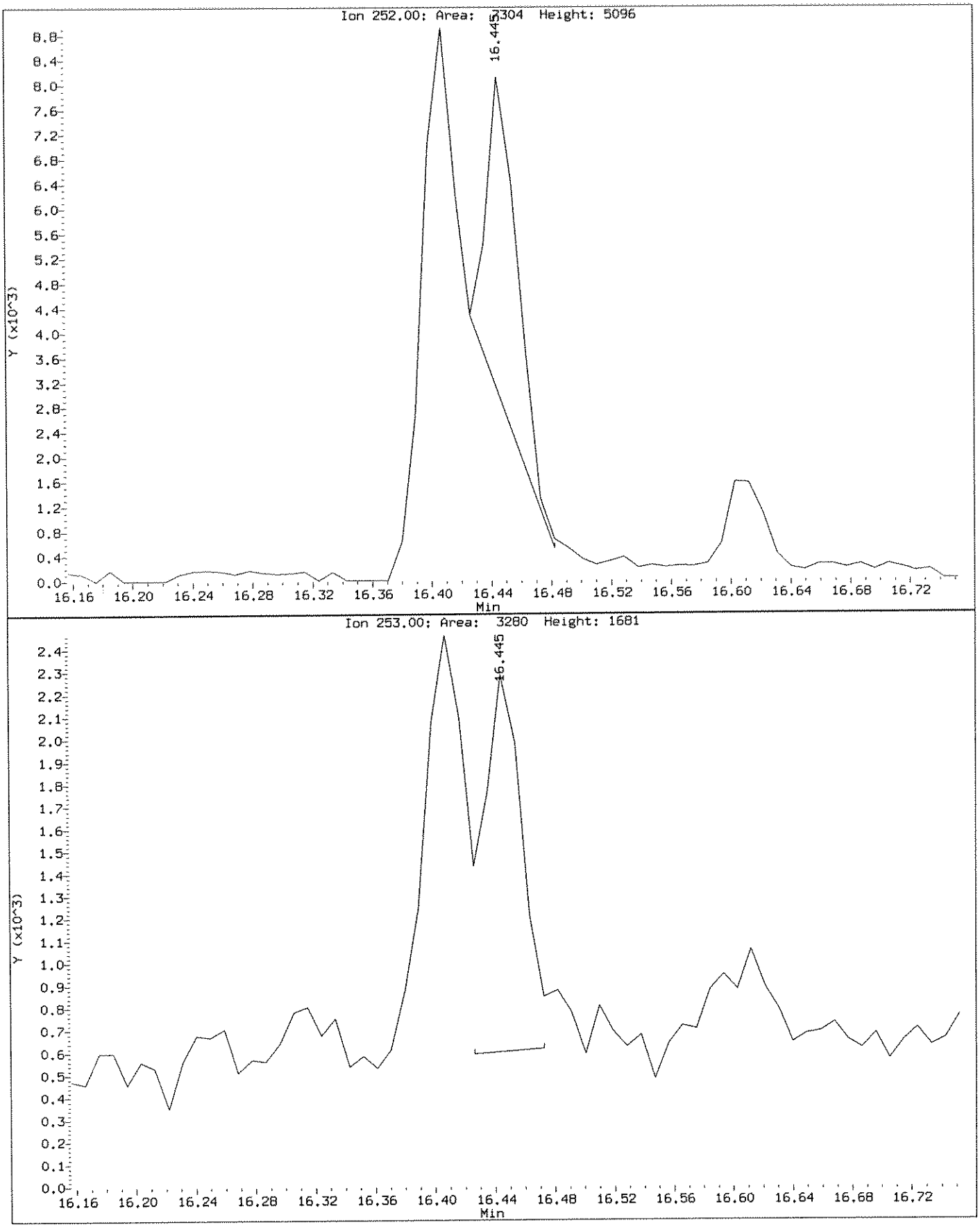
Data File: \\ELABNSHO5\TARGET\chem\bna4.i\022412B4.b\0215001M.D
Injection Date: 24-FEB-2012 20:29
Instrument: bna4.i
Client Sample ID: 2B22014-MS1

Compound: Benzo(k)fluoranthene
CAS Number: 207-08-9



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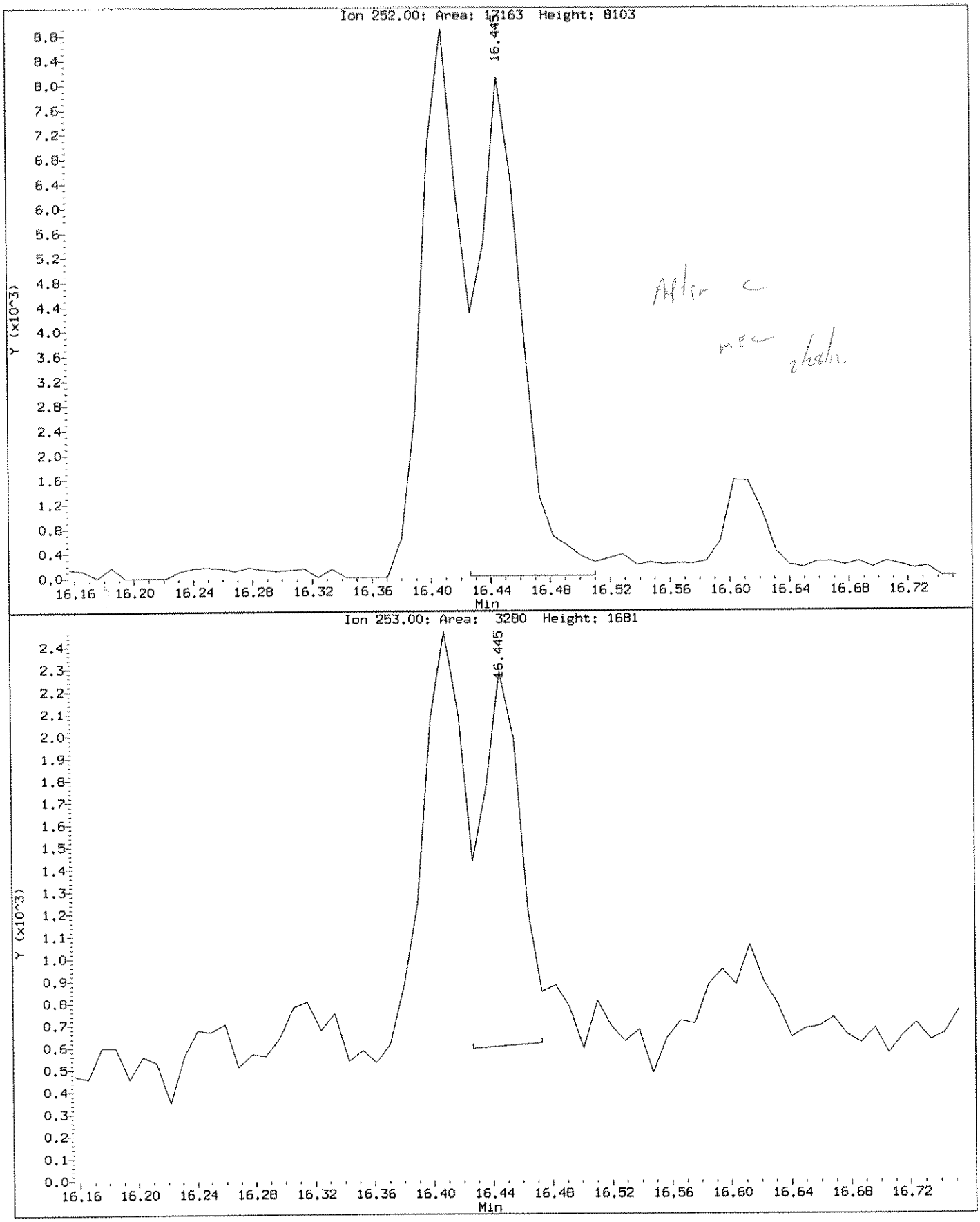
Injection Date: 24-FEB-2012 20:29
Instrument: bna4.i
Client Sample ID: 2B22014-MS1

Compound: Benzo(k)fluoranthene
CAS Number: 207-08-9



Data File: \\ELABNSH05\TARGET\chem\bna4.i\022412B4.b\0215001S.D
Report Date: 28-Feb-2012 10:47

J.H. 3.1.12

Laboratory Name

Data file : \\ELABNSH05\TARGET\chem\bna4.i\022412B4.b\0215001S.D
Lab Smp Id: 2B22014-MSD1 Client Smp ID: 2B22014-MSD1
Inj Date : 24-FEB-2012 20:57 MS Autotune Date: 15-FEB-2012 09:23
Operator : MEC Inst ID: bna4.i
Smp Info : 2B22014-MSD1;10;15;1000;1;ug/Kg;22-FEB-2012
Misc Info : ;3;MSD;;;2B22014;pahlow.sub;
Comment :
Method : \\ELABNSH05\TARGET\chem\bna4.i\022412B4.b\IXBN4LOW.m
Meth Date : 28-Feb-2012 09:32 mcobb Quant Type: ISTD
Cal Date : 20-FEB-2012 16:29 Cal File: SEQ-CAL1.D
Als bottle: 24 QC Sample: MSD
Dil Factor: 10.00000
Integrator: HP RTE Compound Sublist: pahlow.sub
Target Version: 4.04
Processing Host: TARGET09_VM

Concentration Formula: Amt * DF * Uf * Vt*Vi/(Amt * Vi * (Solids/100))

Name	Value	Description
DF	10.000	Dilution Factor
Uf	1.000	ng unit correction factor
Vt	1000.000	Volume of final extract (uL)(1000 low, 2
Amt	15.000	Mass of initial extraction
Vi	1.000	Volume injected (uL)
Solids	100.000	Percent Solids

Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS ON-COLUMN (ng/ul)	FINAL (ug/Kg)
51 Naphthalene	128	6.274	6.274	(0.615)	9368	0.10269	68.46
55 2-Methylnaphthalene	142	7.092	7.092	(0.696)	6056	0.10189	67.92
56 1-Methylnaphthalene	142	7.223	7.232	(0.708)	5626	0.09772	65.14
$ 74 2-Fluorobiphenyl	172	7.557	7.557	(0.741)	285698	3.93781	2625
77 Acenaphthylene	152	8.208	8.208	(0.805)	13435	0.15704	104.7(R)
80 Acenaphthene	153	8.431	8.431	(0.827)	6625	0.11520	76.80(R)
88 Fluorene	166	9.045	9.045	(0.887)	7412	0.11865	79.10(R)
* 102 Phenanthrene-d10	188	10.197	10.197	(1.000)	90246	1.00000	
111 Phenanthrene	178	10.225	10.225	(1.003)	13853	0.15544	103.6(R)
112 Anthracene	178	10.281	10.281	(1.008)	11223	0.13061	87.07(R)
116 Fluoranthene	202	11.824	11.833	(1.160)	24826	0.27112	180.7(R)
134 Pyrene	202	12.178	12.177	(1.194)	34585	0.36666	244.4(R)
* 154 Perylene-d12	264	17.123	17.123	(1.000)	44723	1.00000	

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Data File: \\ELABNSH05\TARGET\chem\bna4.i\022412B4.b\0215001S.D
Report Date: 28-Feb-2012 10:47

Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS ON-COLUMN (ng/ul)	FINAL (ug/Kg)
$ 135 Terphenyl-d14	244	12.429	12.428	(1.219)	318952	5.11396	3409
138 Benzo(a)anthracene	228	14.297	14.297	(1.402)	14380	0.24153	161.0(R)
139 Chrysene	228	14.381	14.381	(1.410)	18923	0.31794	212.0(R)
156 Benzo(b)fluoranthene	252	16.407	16.407	(0.958)	16206	0.28899	192.7(RM)
157 Benzo(k)fluoranthene	252	16.445	16.454	(0.960)	14854	0.26883	179.2(RM)
158 Benzo(a)pyrene	252	17.012	17.021	(0.993)	10577	0.25162	167.7(R)
159 Indeno(1,2,3-cd)pyrene	276	19.038	19.038	(1.112)	5415	0.16211	108.1(R)
160 Dibenz(a,h)anthracene	278	19.066	19.066	(1.113)	3226	0.12130	80.87
161 Benzo(g,h,i)perylene	276	19.531	19.531	(1.141)	5805	0.19293	128.6(R)

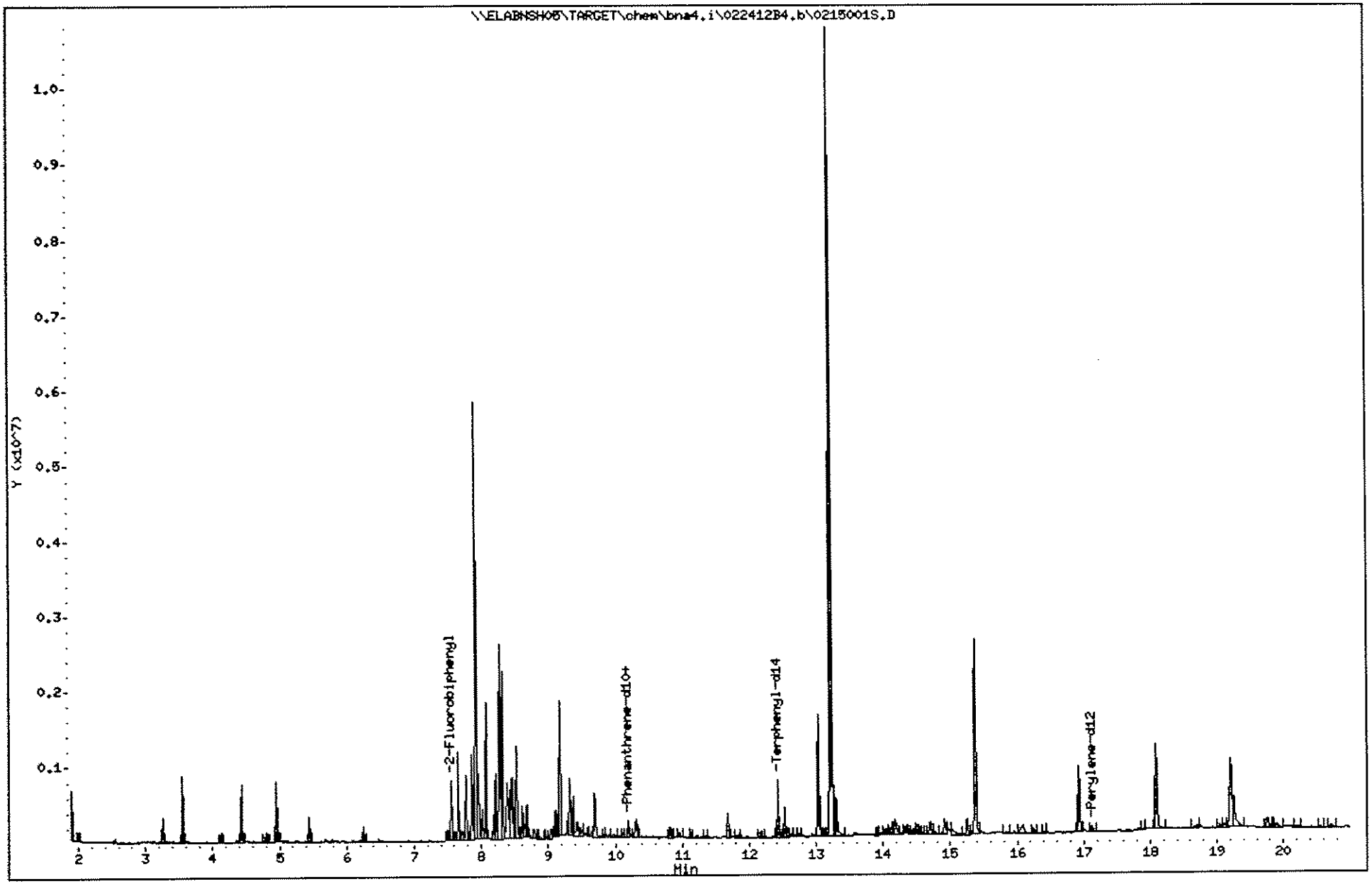
QC Flag Legend

R - Spike/Surrogate failed recovery limits.
M - Compound response manually integrated.

Data File: \\ELABNSH05\TARGET\chem\bna4.i\022412B4.b\0215001S.D
Date : 24-FEB-2012 20:57
Client ID: 2B22014-MSD1
Sample Info: 2B22014-MSD1;10;15;1000;1;ug/Kg;22-FEB-2012
Volume Injected (uL): 1.0
Column phase: fused silica

Instrument: bna4.i

Operator: MEC
Column diameter: 0.25



195

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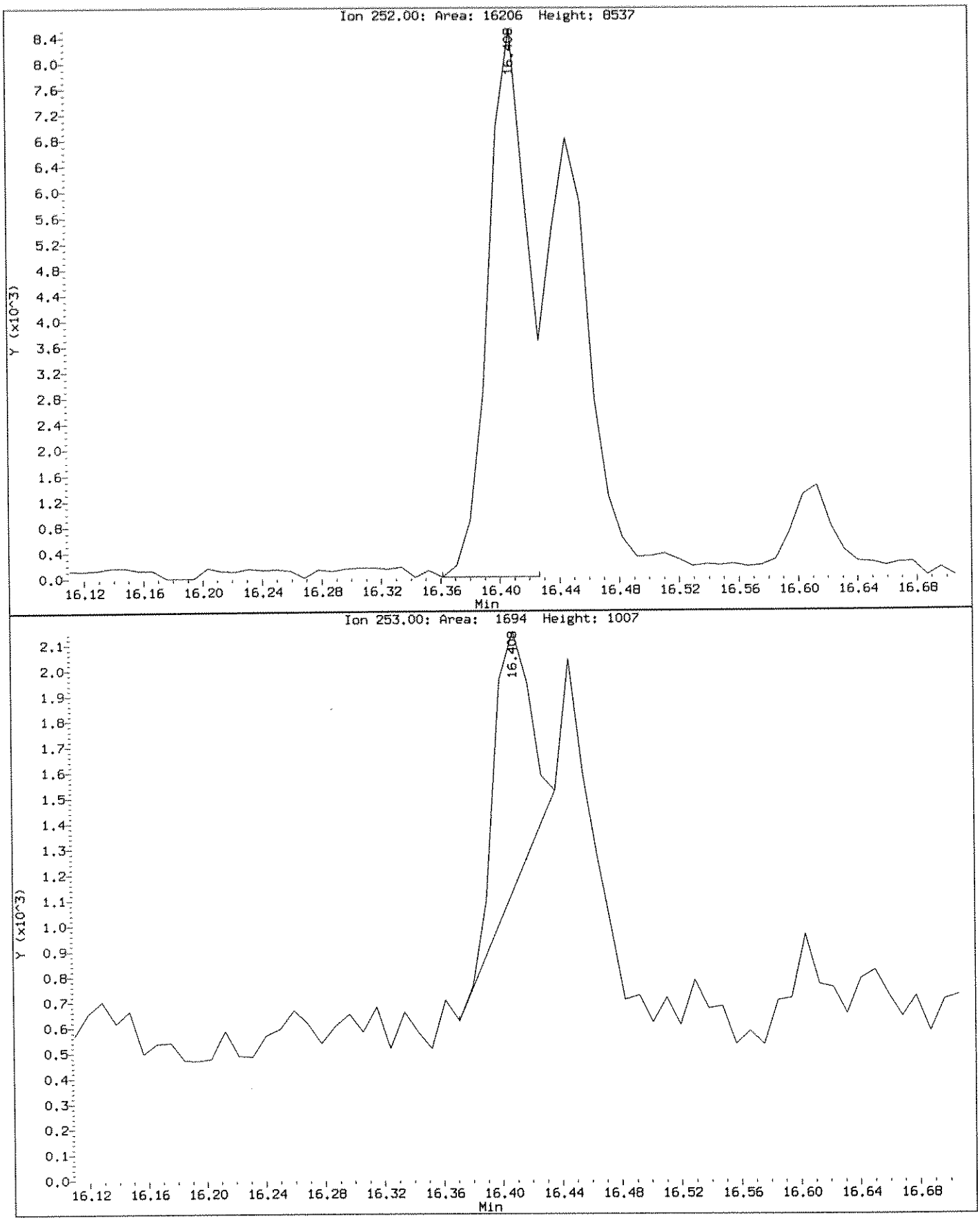
Data File: \\ELABNSHO5\TARGET\chem\bna4.i\022412B4.b\0215001S.D
Injection Date: 24-FEB-2012 20:57
Instrument: bna4.i
Client Sample ID: 2B22014-MSD1

Compound: Benzo(b)fluoranthene
CAS Number: 205-99-2



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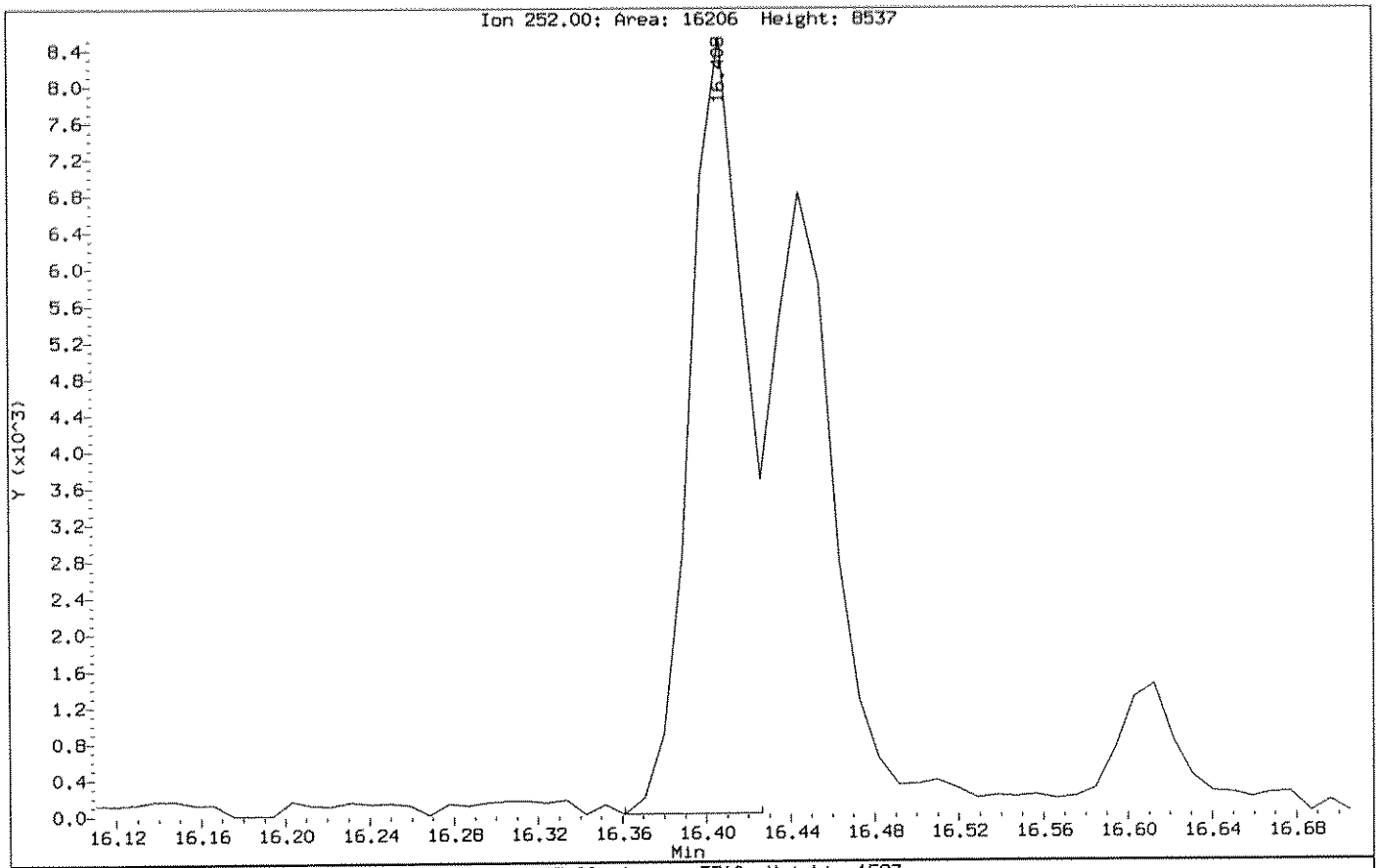
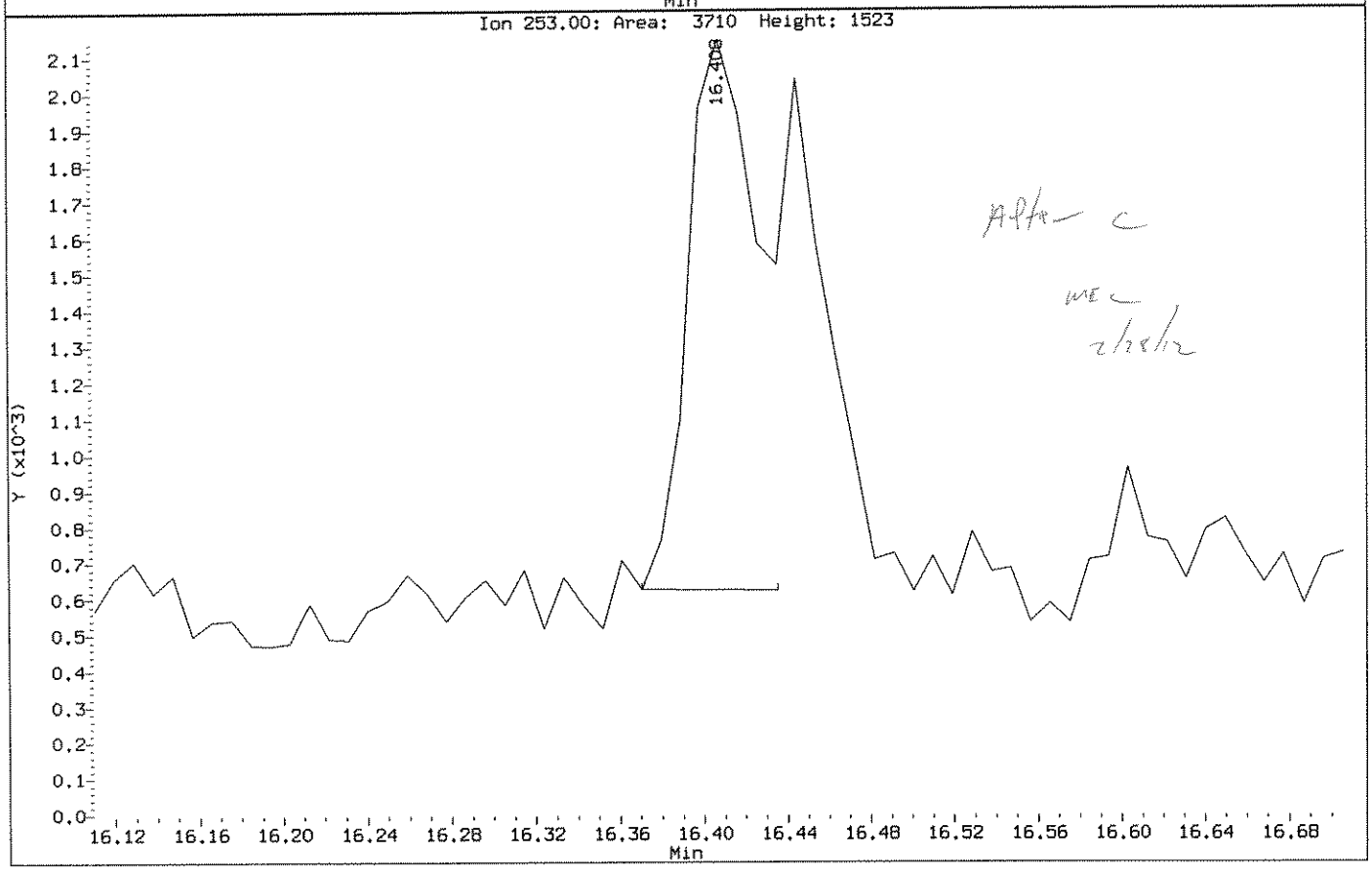
Injection Date: 24-FEB-2012 20:57
Instrument: bna4.i
Client Sample ID: 2B22014-MSD1

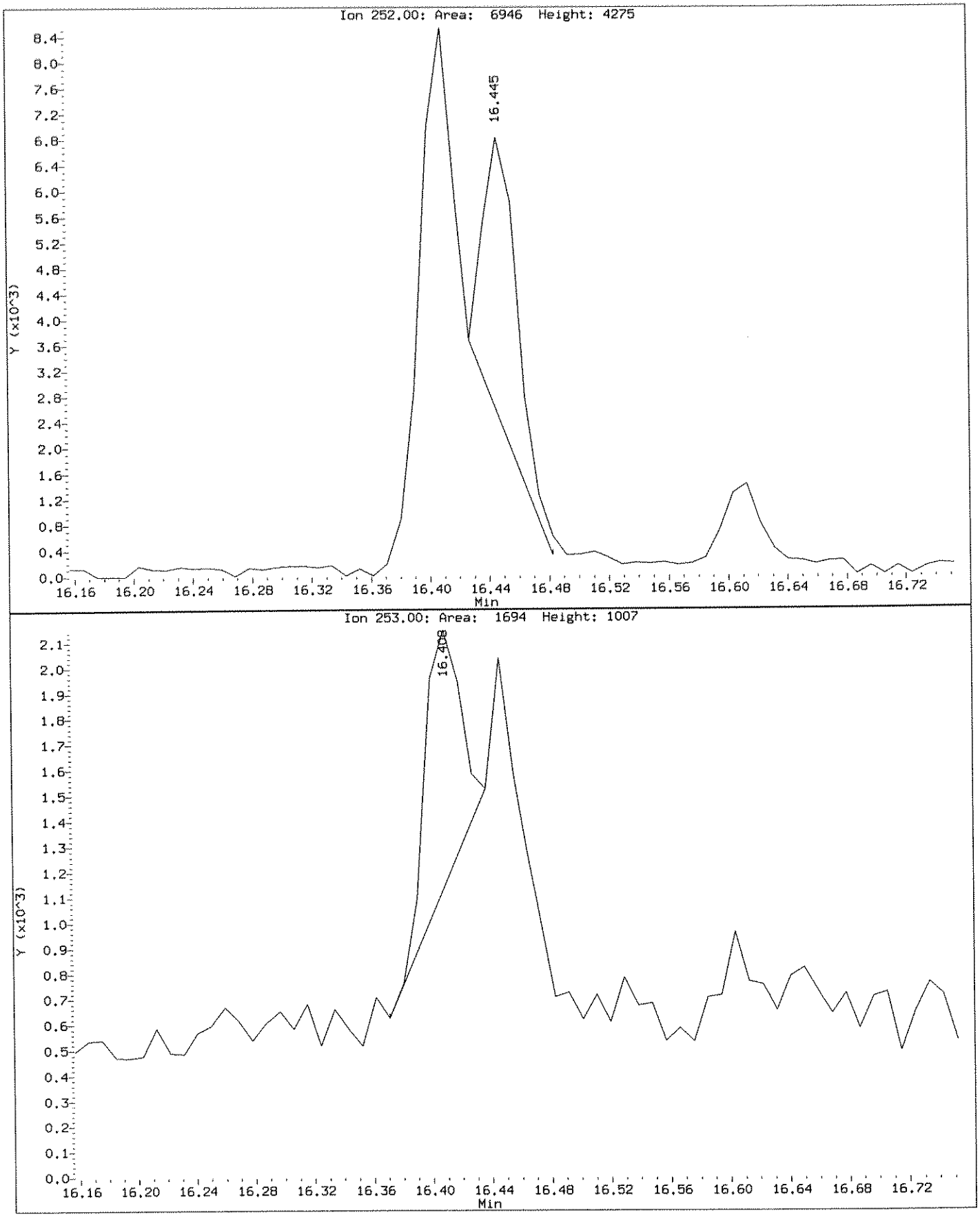
Compound: Benzo(b)fluoranthene
CAS Number: 205-99-2





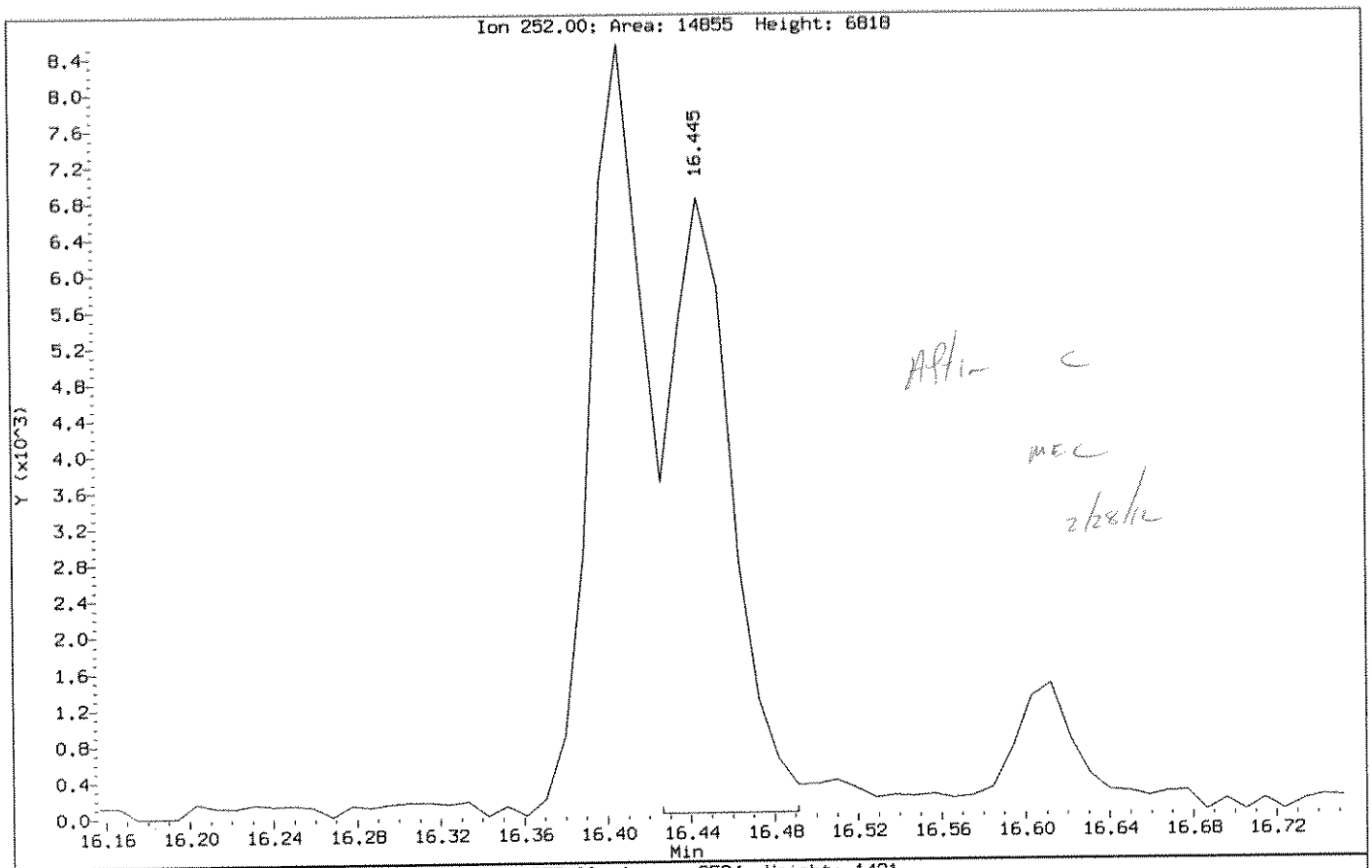
Data File: \\ELABNSHO5\TARGET\chem\bna4.i\022412B4.b\02150015.D
Injection Date: 24-FEB-2012 20:57
Instrument: bna4.i
Client Sample ID: 2B22014-MSD1

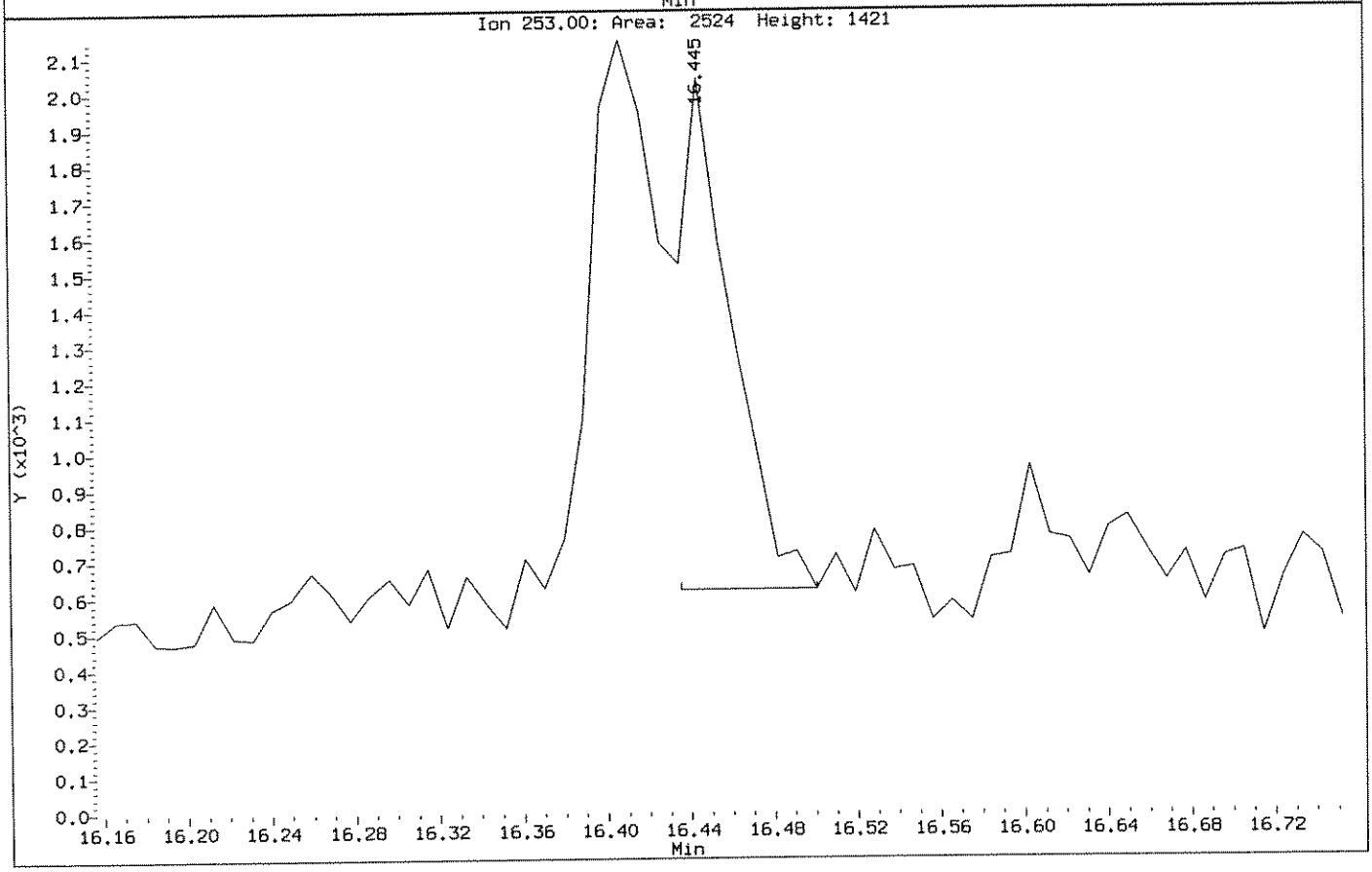
Compound: Benzo(k)fluoranthene
CAS Number: 207-08-9



Data File: \\ELABNSHO5\TARGET\chem\bna4.i\022412B4.b\02150015.D
Injection Date: 24-FEB-2012 20:57
Instrument: bna4.i
Client Sample ID: 2B22014-MSD1

Compound: Benzo(k)fluoranthene
CAS Number: 207-08-9





Data File: \\ELABNSH05\TARGET\chem\bna4.i\022412B4.b\0215002D.D
Report Date: 28-Feb-2012 10:47

J.H. 3.1.12

Laboratory Name

Data file : \\ELABNSH05\TARGET\chem\bna4.i\022412B4.b\0215002D.D
Lab Smp Id: 1202150-02 Client Smp ID: FLC-4-SS04-0006-022
Inj Date : 24-FEB-2012 21:25 MS Autotune Date: 15-FEB-2012 09:23
Operator : MEC Inst ID: bna4.i
Smp Info : 1202150-02;10;15;1000;1;ug/Kg;22-FEB-2012
Misc Info : ;0;;;;2B22014;pahlow.sub;
Comment :
Method : \\ELABNSH05\TARGET\chem\bna4.i\022412B4.b\IXBN4LOW.m
Meth Date : 28-Feb-2012 09:32 mcobb Quant Type: ISTD
Cal Date : 20-FEB-2012 16:29 Cal File: SEQ-CAL1.D
Als bottle: 25
Dil Factor: 10.00000
Integrator: HP RTE Compound Sublist: pahlow.sub
Target Version: 4.04
Processing Host: TARGET09_VM

Concentration Formula: Amt * DF * Uf * Vt*Vi/(Amt * Vi * (Solids/100))

Name	Value	Description
DF	10.000	Dilution Factor
Uf	1.000	ng unit correction factor
Vt	1000.000	Volume of final extract (uL)(1000 low, 2
Amt	15.000	Mass of initial extraction
Vi	1.000	Volume injected (uL)
Solids	100.000	Percent Solids

Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS ON-COLUMN (ng/ul)	FINAL (ug/Kg)
51 Naphthalene	128	6.274	6.274	(0.615)	4021	0.04530	30.20(a)
55 2-Methylnaphthalene	142	7.092	7.092	(0.696)	2118	0.03662	24.42(a)
56 1-Methylnaphthalene	142	7.223	7.232	(0.708)	1260	0.02249	15.00(a)
$ 74 2-Fluorobiphenyl	172	7.557	7.557	(0.741)	316607	4.48520	2990
77 Acenaphthylene	152	8.208	8.208	(0.805)	7471	0.08976	59.84
* 102 Phenanthrene-d10	188	10.197	10.197	(1.000)	87804	1.00000	
111 Phenanthrene	178	10.225	10.225	(1.003)	8385	0.09670	64.47
112 Anthracene	178	10.281	10.281	(1.008)	3198	0.03825	25.50(a)
116 Fluoranthene	202	11.824	11.833	(1.160)	23116	0.25946	173.0
134 Pyrene	202	12.178	12.177	(1.194)	38832	0.42313	282.1
* 154 Perylene-d12	264	17.123	17.123	(1.000)	50033	1.00000	
$ 135 Terphenyl-d14	244	12.429	12.428	(1.219)	365149	6.01749	4012
138 Benzo(a)anthracene	228	14.297	14.297	(1.402)	9214	0.15906	106.0

MEC
2/28/12

Data File: \\ELABNSH05\TARGET\chem\bna4.i\022412B4.b\0215002D.D
Report Date: 28-Feb-2012 10:47

Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS ON-COLUMN (ng/ul)	CONCENTRATIONS FINAL (ug/Kg)
139 Chrysene	228	14.371	14.381	(1.409)	19810	0.34210	228.1
156 Benzo(b)fluoranthene	252	16.407	16.407	(0.958)	13634	0.21732	144.9(M)
157 Benzo(k)fluoranthene	252	16.445	16.454	(0.960)	13700	0.22163	147.8(M)
158 Benzo(a)pyrene	252	17.021	17.021	(0.994)	10564	0.22464	149.8
159 Indeno(1,2,3-cd)pyrene	276	19.038	19.038	(1.112)	4869	0.13029	86.86
160 Dibenz(a,h)anthracene	278	19.066	19.066	(1.113)	1640	0.05512	36.75
161 Benzo(g,h,i)perylene	276	19.531	19.531	(1.141)	5614	0.16678	111.2

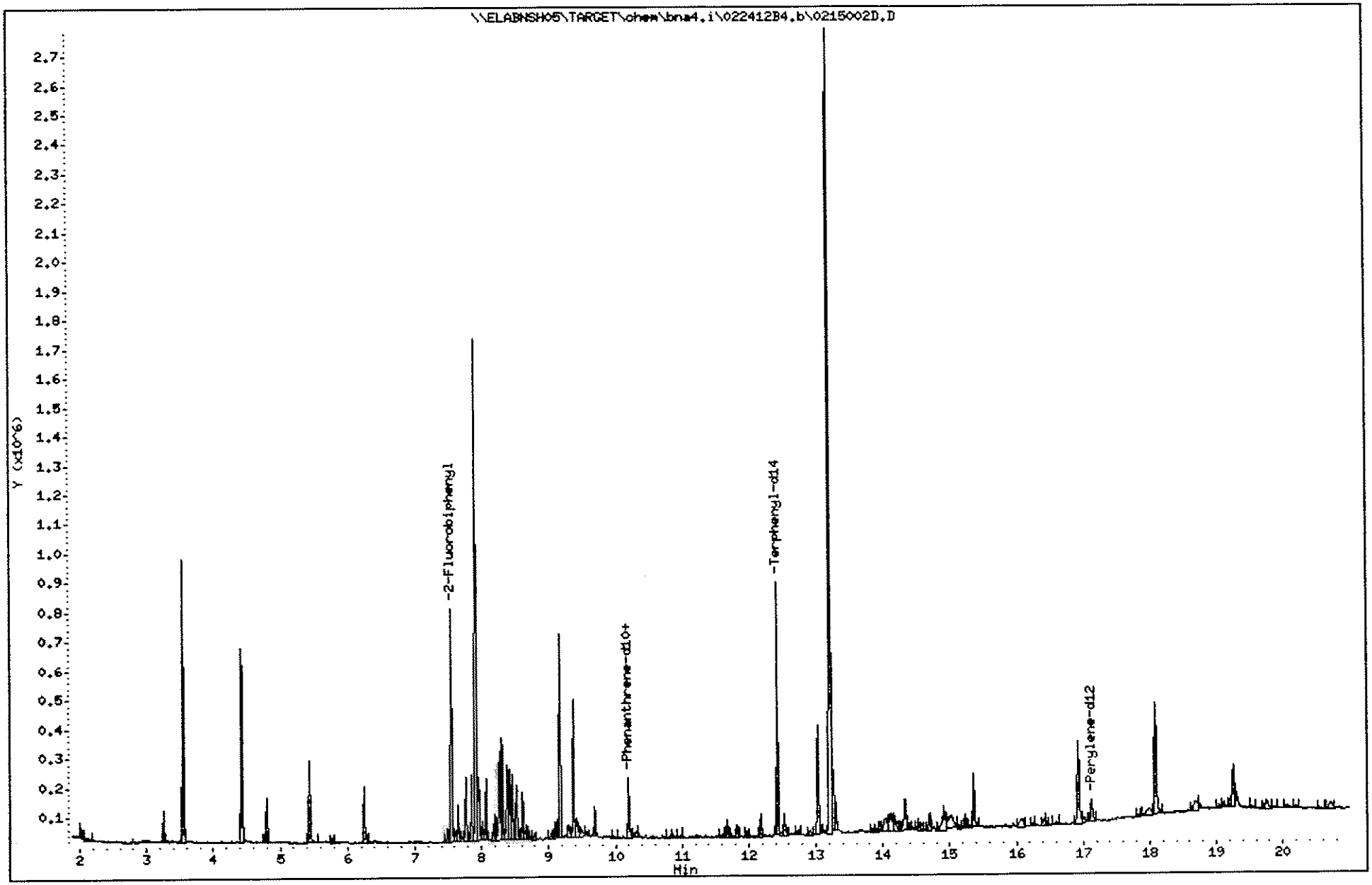
QC Flag Legend

a - Target compound detected but, quantitated amount
Below Limit Of Quantitation(BLOQ).
M - Compound response manually integrated.

Data File: \\ELABNSH05\TARGET\chem\bna4.i\022412B4.b\0215002D.D
Date : 24-FEB-2012 21:25
Client ID: FLC-4-SS04-0006-022
Sample Info: 1202150-02;10;15;1000;1;ug/Kg;22-FEB-2012
Volume Injected (uL): 1.0
Column phase: fused silica

Instrument: bna4.i

Operator: MEC
Column diameter: 0.25



202

1202150

Data File: \\ELABNSH05\TARGET\chem\bna4.i\022412B4.b\0215002D.D

Date : 24-FEB-2012 21:25

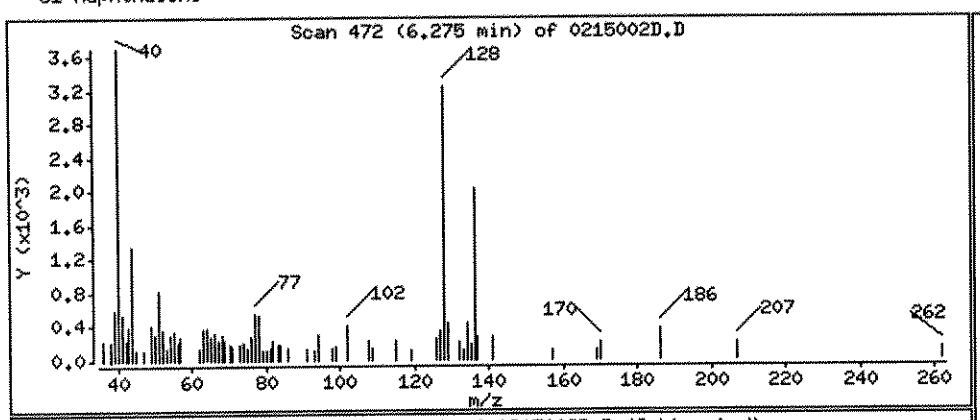
Client ID: FLC-4-SS04-0006-022 Instrument: bna4.i

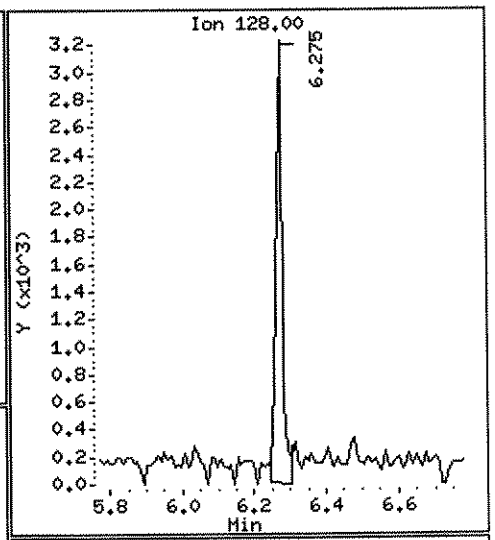
Sample Info: 1202150-02;10;15;1000;1;ug/Kg;22-FEB-2012

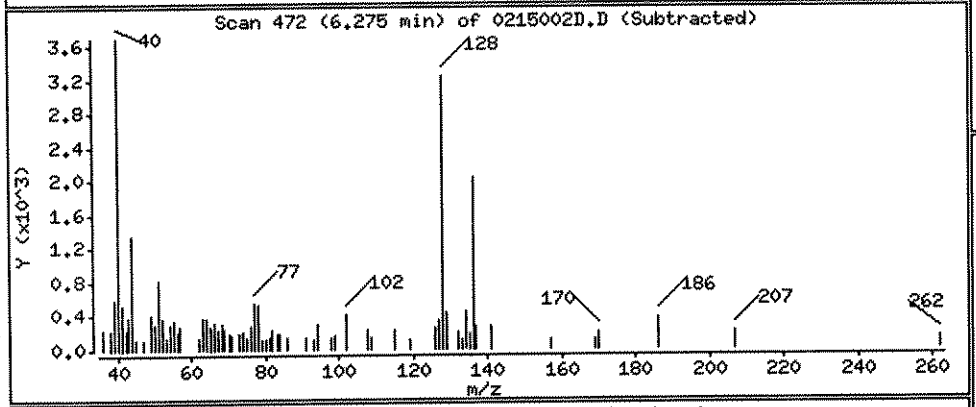
Volume Injected (uL): 1.0 Operator: MEC

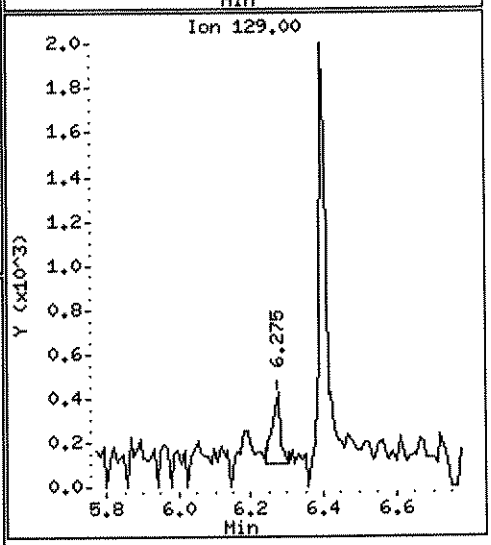
Column phase: fused silica Column diameter: 0.25

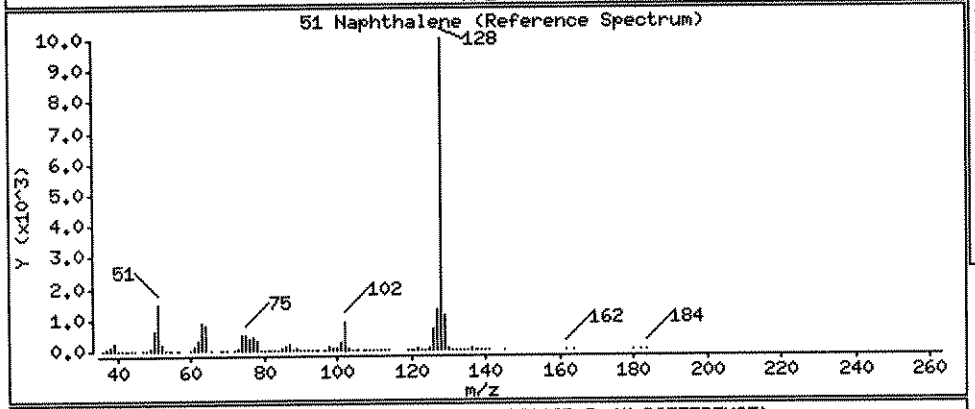
51 Naphthalene Concentration: 30.20 ug/Kg

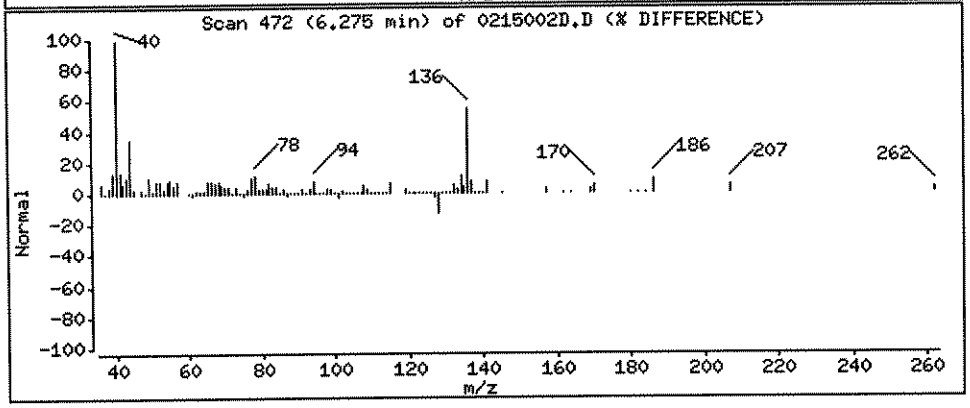












Data File: \\ELABNSH05\TARGET\chem\bna4.i\022412B4.b\0215002D.D

Date : 24-FEB-2012 21:25

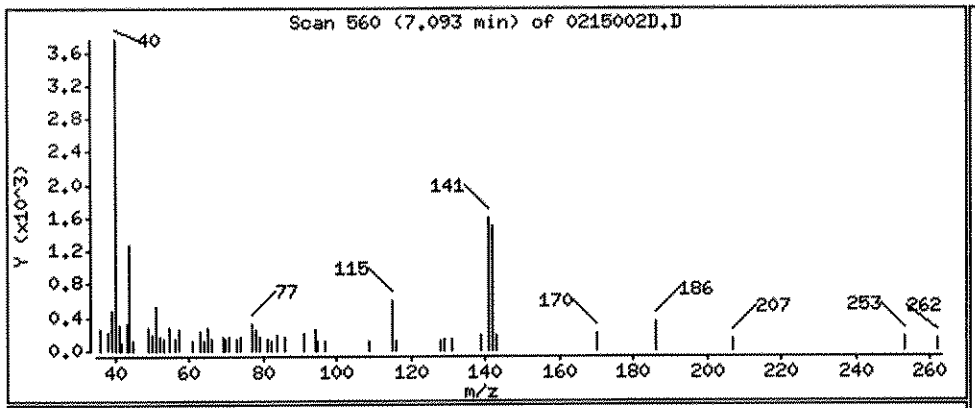
Client ID: FLC-4-SS04-0006-022 Instrument: bna4.i

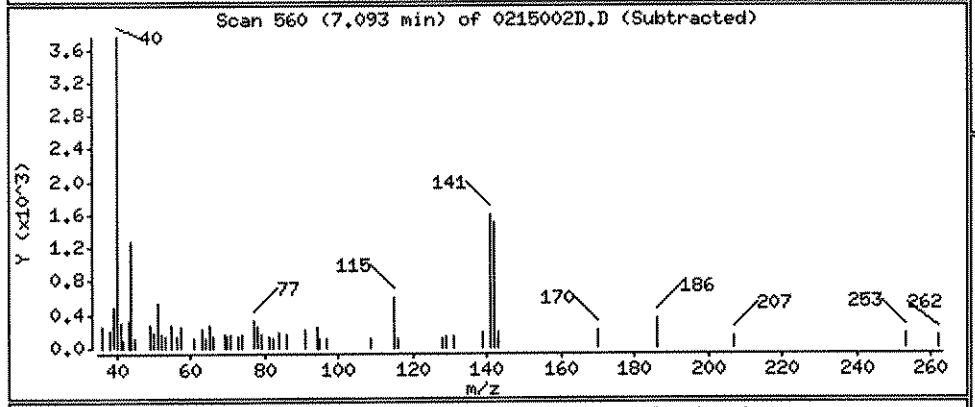
Sample Info: 1202150-02;10;15;1000;1;ug/Kg;22-FEB-2012

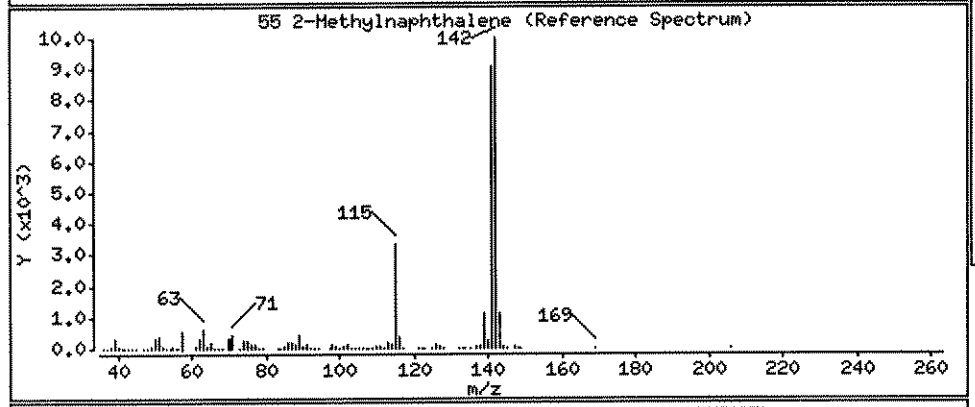
Volume Injected (uL): 1.0 Operator: MEC

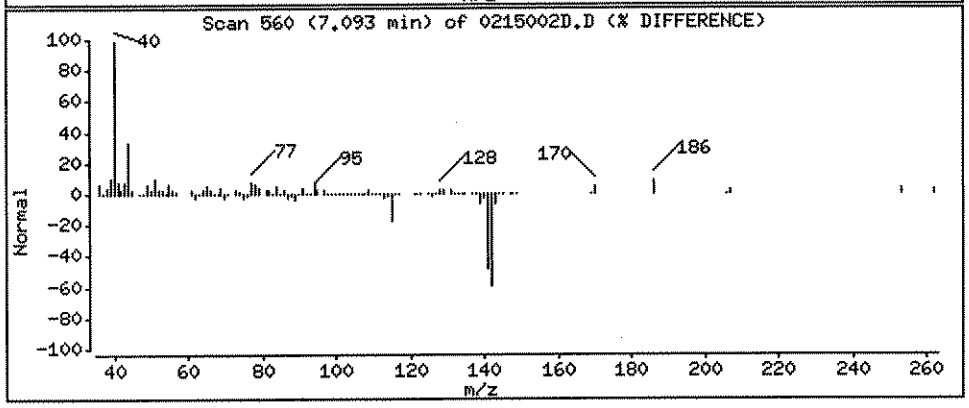
Column phase: fused silica Column diameter: 0.25

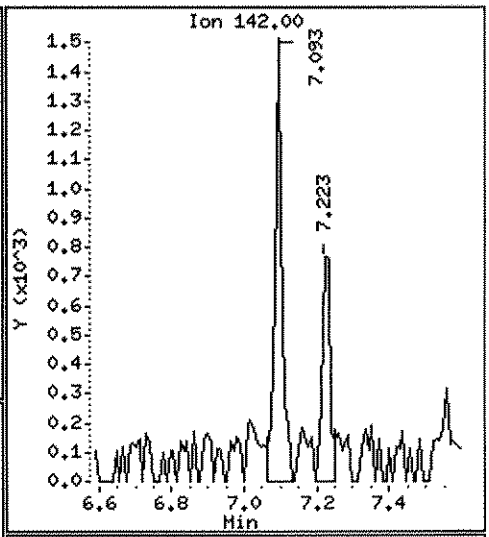
55 2-Methylnaphthalene Concentration: 24.42 ug/Kg

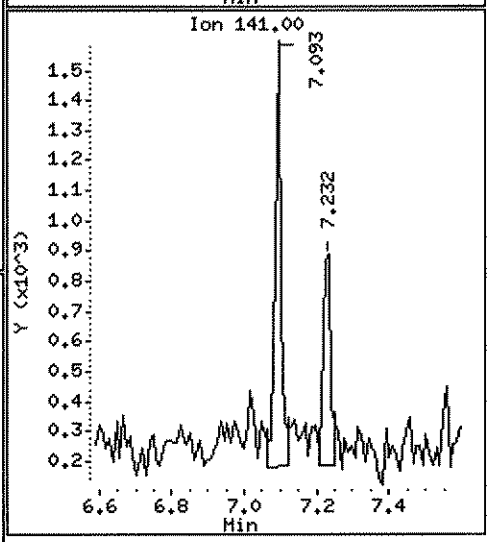












Data File: \\ELABNSH05\TARGET\chem\bna4.i\022412B4.b\0215002D.D

Date : 24-FEB-2012 21:25

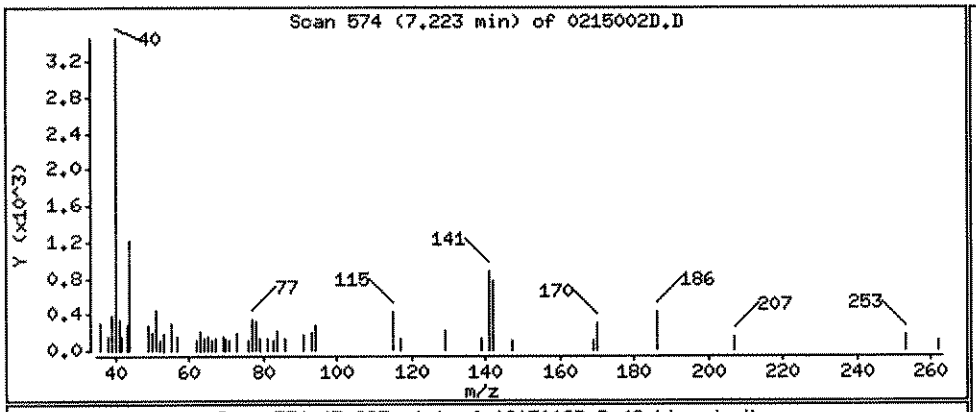
Client ID: FLC-4-SS04-0006-022 Instrument: bna4.i

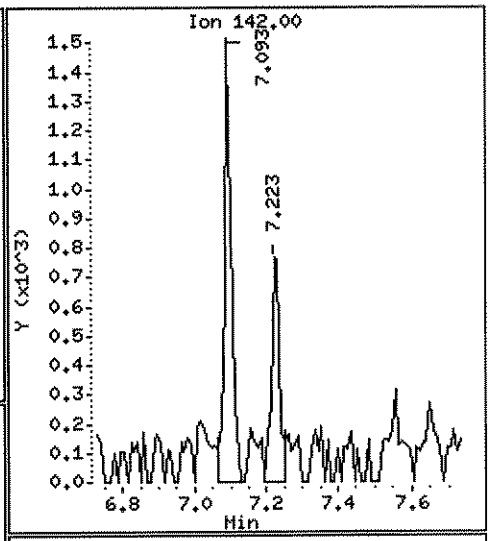
Sample Info: 1202150-02;10;15;1000;1;ug/Kg;22-FEB-2012

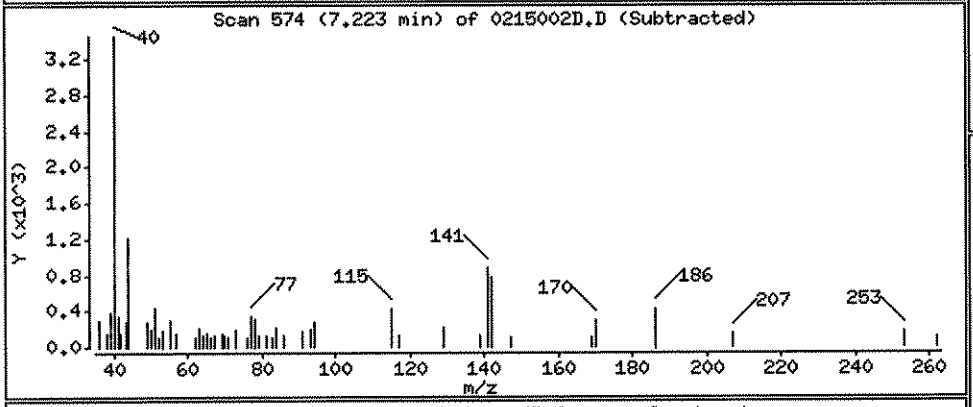
Volume Injected (uL): 1.0 Operator: MEC

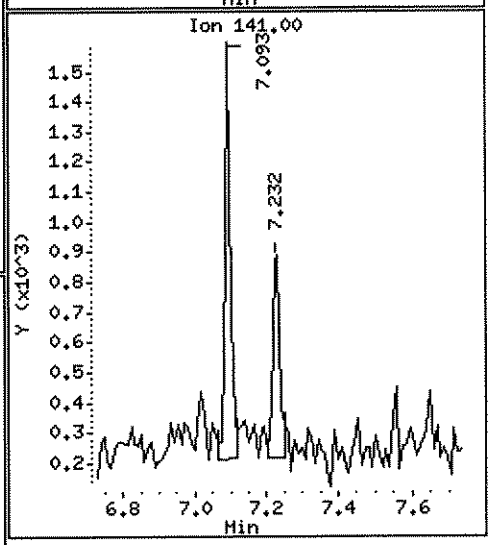
Column phase: fused silica Column diameter: 0.25

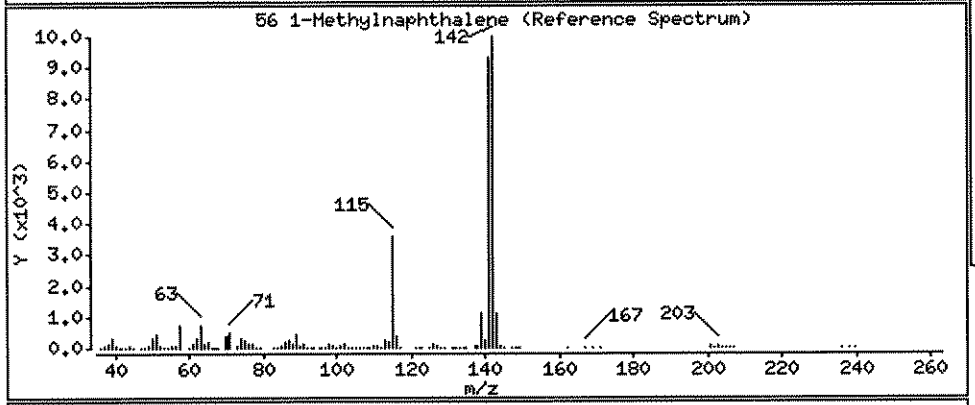
56 1-Methylnaphthalene Concentration: 15.00 ug/Kg

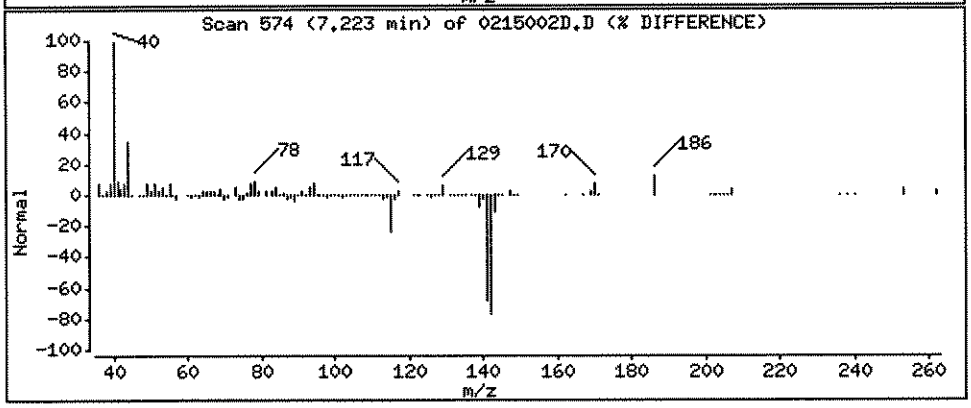












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Date : 24-FEB-2012 21:25

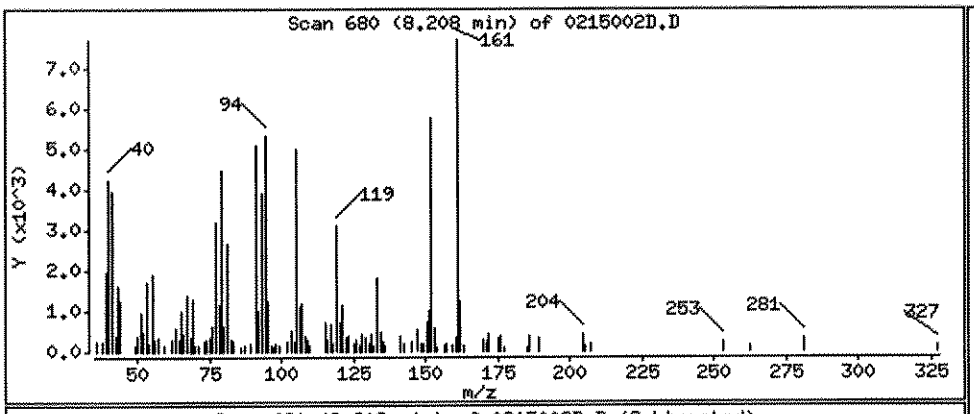
Client ID: FLC-4-SS04-0006-022 Instrument: bna4.i

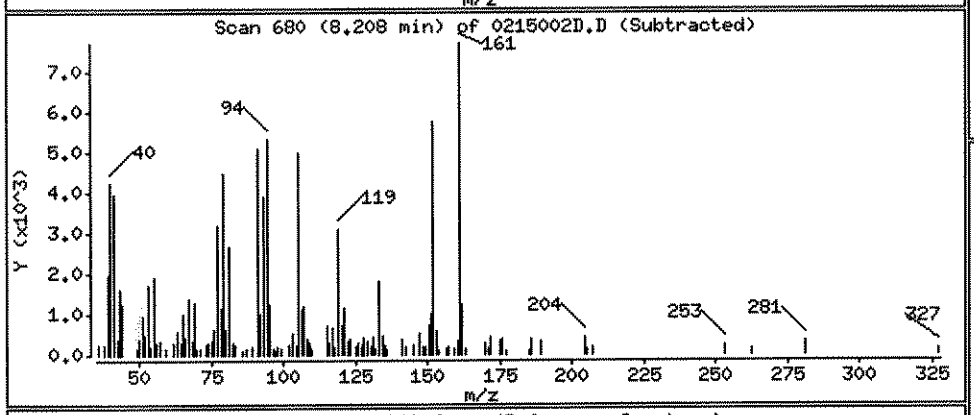
Sample Info: 1202150-02;10;15;1000;1;ug/Kg;22-FEB-2012

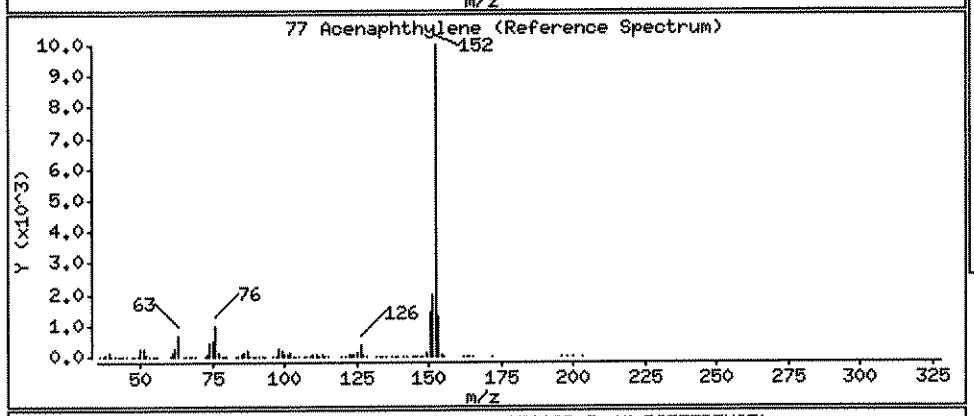
Volume Injected (uL): 1.0 Operator: MEC

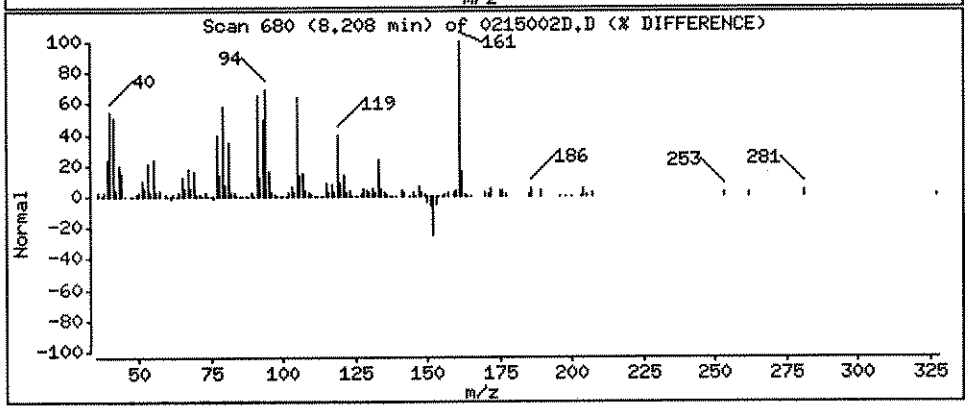
Column phase: fused silica Column diameter: 0.25

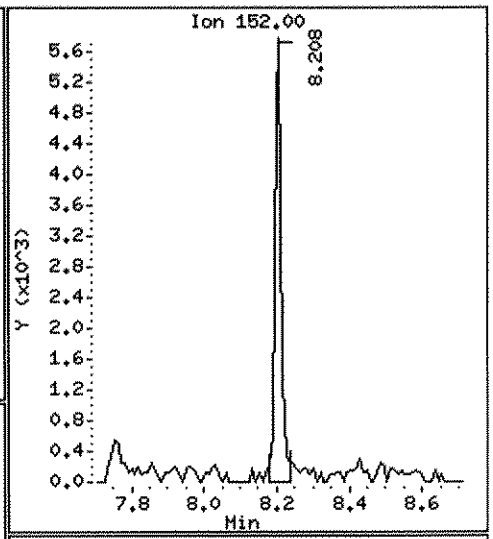
77 Acenaphthylene Concentration: 59.84 ug/Kg

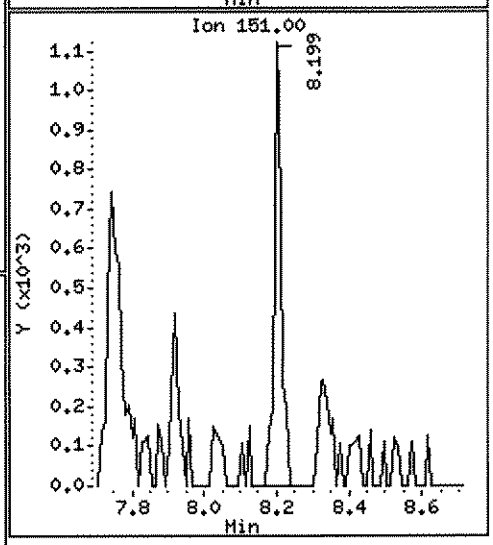












Data File: \\ELABNSH05\TARGET\chem\bna4.i\022412B4.b\0215002D.D

Date : 24-FEB-2012 21:25

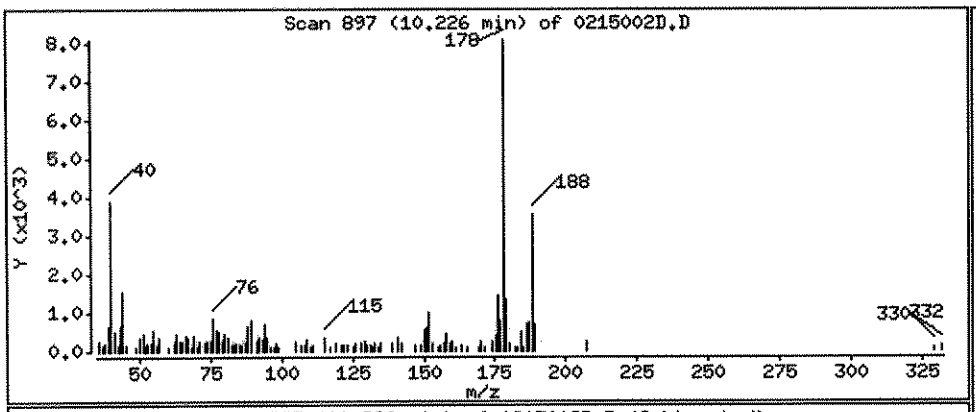
Client ID: FLC-4-SS04-0006-022 Instrument: bna4.i

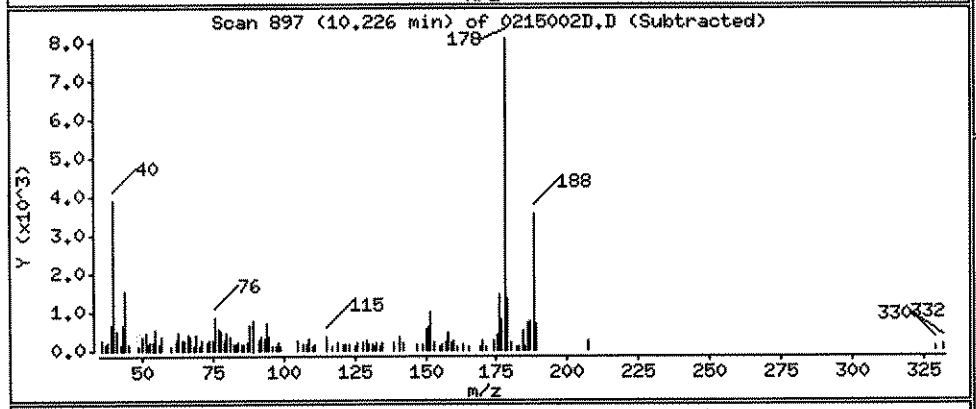
Sample Info: 1202150-02;10;15;1000;1;ug/Kg;22-FEB-2012

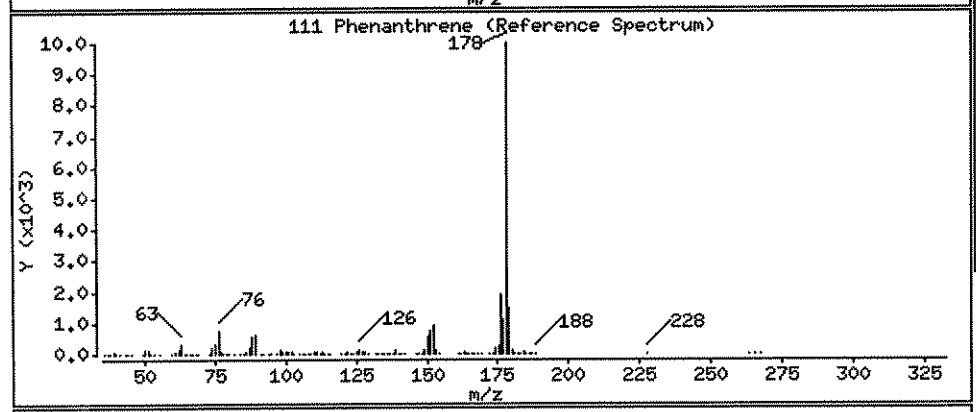
Volume Injected (uL): 1.0 Operator: MEC

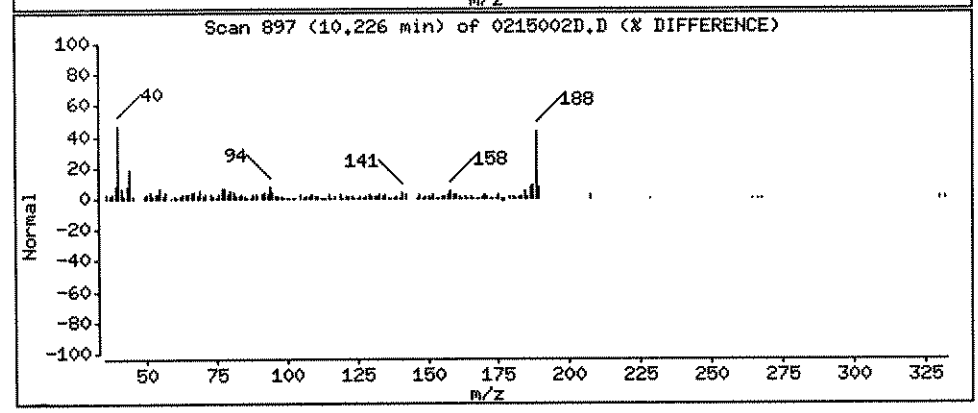
Column phase: fused silica Column diameter: 0.25

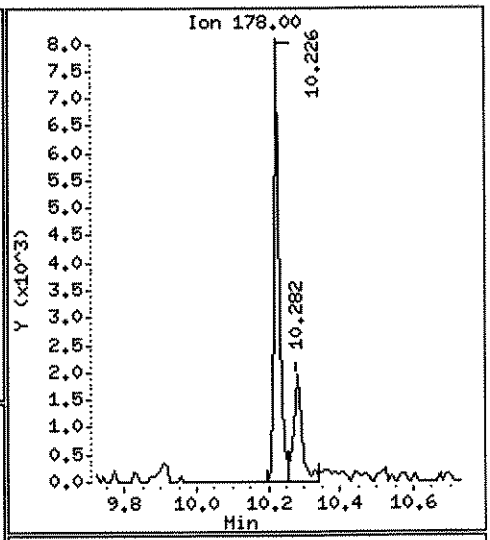
111 Phenanthrene Concentration: 64.47 ug/Kg

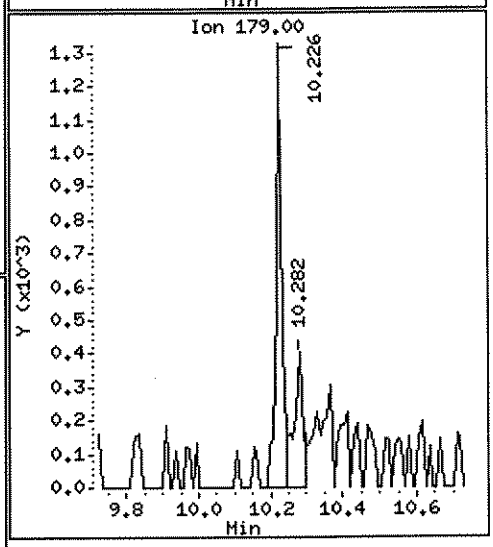












Data File: \\ELABNSH05\TARGET\chem\bna4.i\022412B4.b\0215002D.D

Date : 24-FEB-2012 21:25

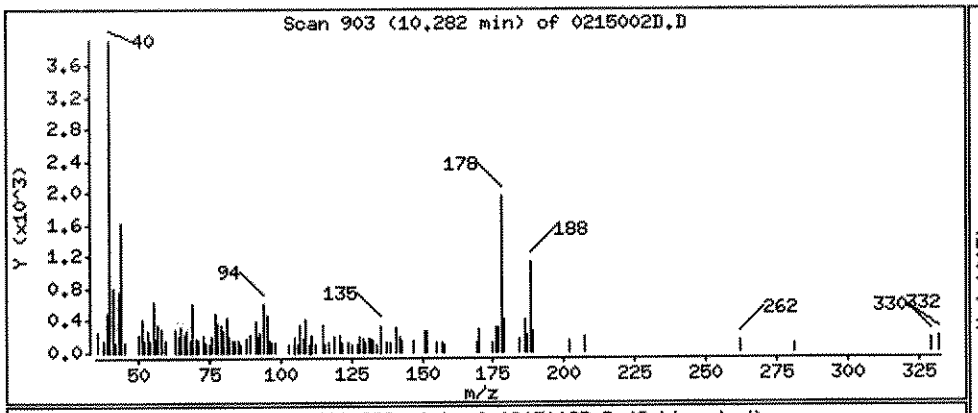
Client ID: FLC-4-SS04-0006-022 Instrument: bna4.i

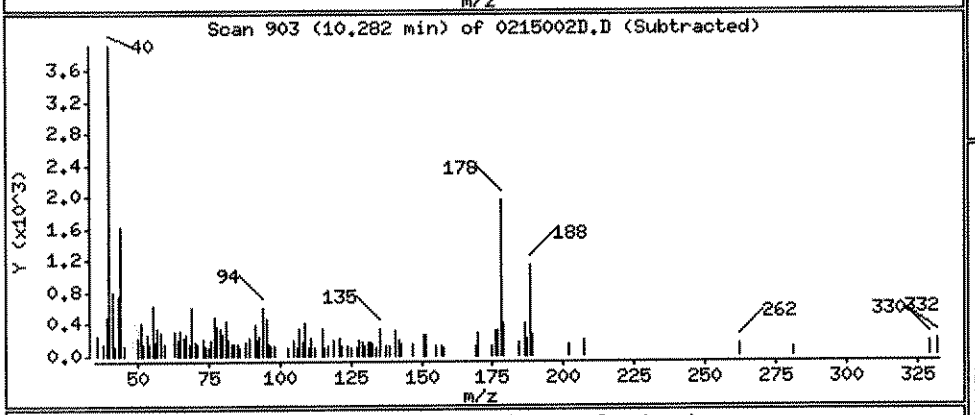
Sample Info: 1202150-02;10;15;1000;1;ug/Kg;22-FEB-2012

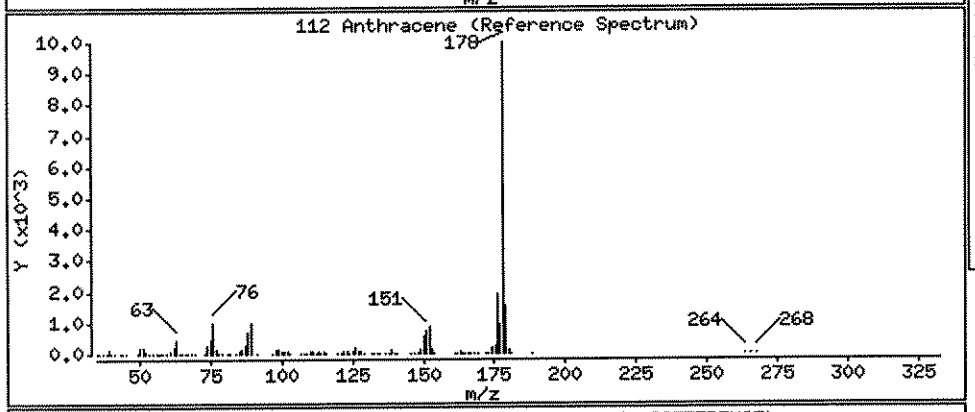
Volume Injected (uL): 1.0 Operator: MEC

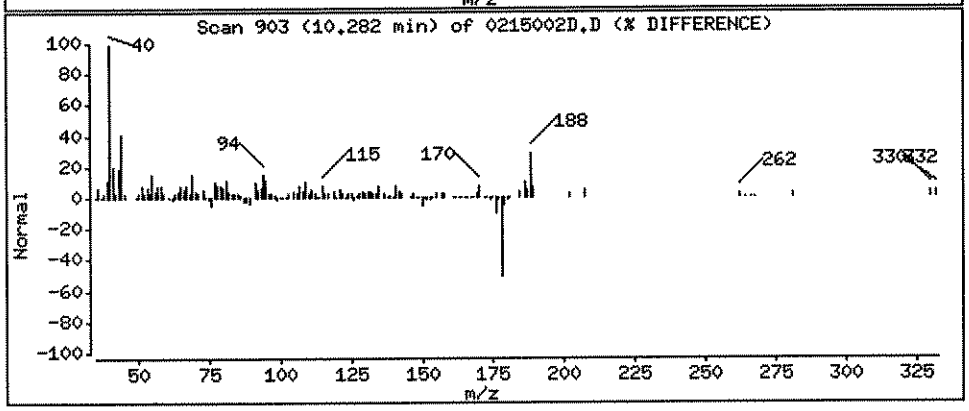
Column phase: fused silica Column diameter: 0.25

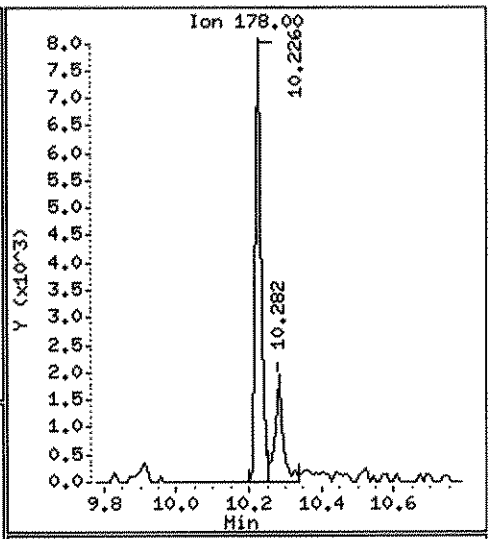
112 Anthracene Concentration: 25.50 ug/Kg

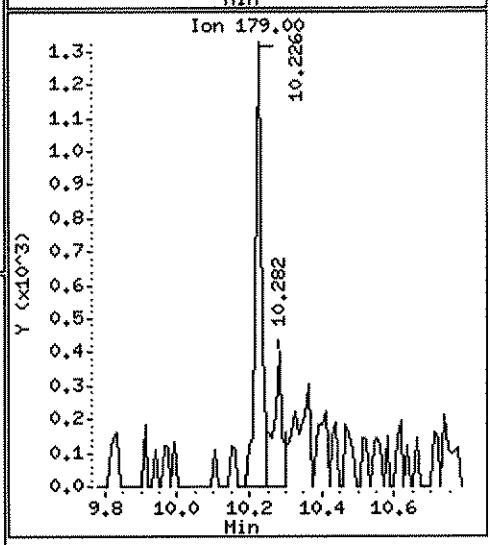












Data File: \\ELABNSH05\TARGET\chem\bna4.i\022412B4.b\0215002D.D

Date : 24-FEB-2012 21:25

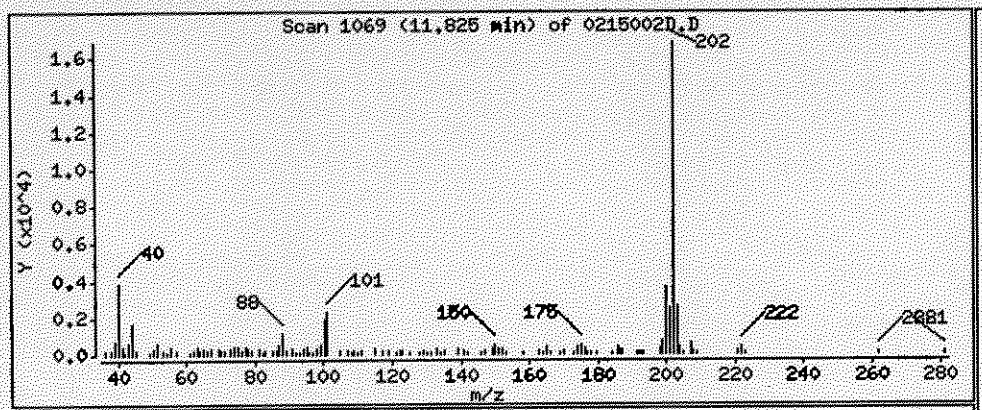
Client ID: FLC-4-SS04-0006-022 Instrument: bna4.i

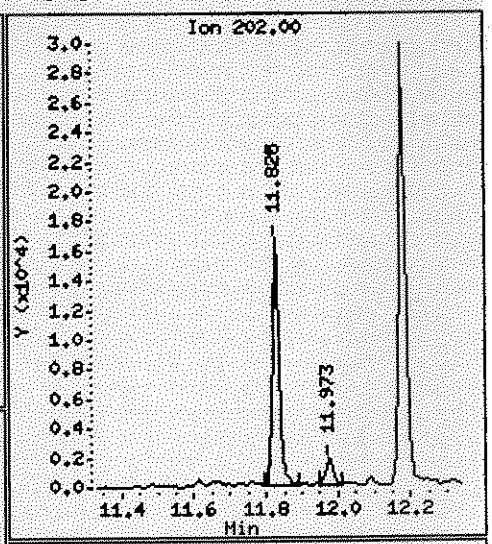
Sample Info: 1202150-02;10;15;1000;1;ug/Kg;22-FEB-2012

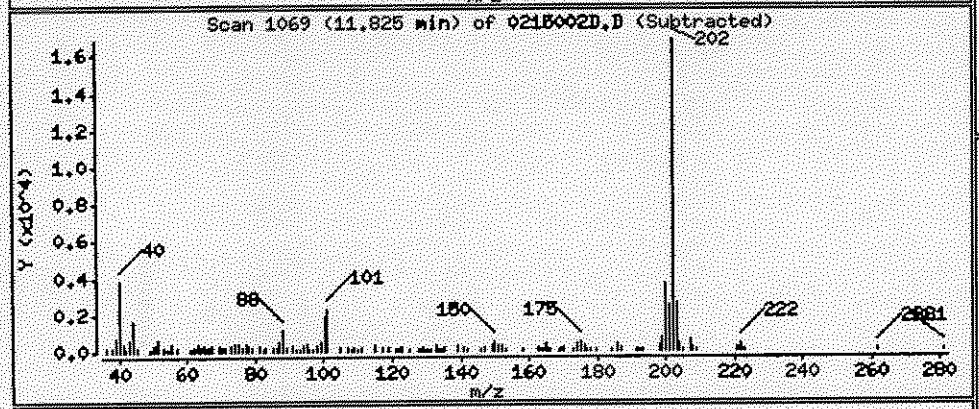
Volume Injected (uL): 1.0 Operator: MEC

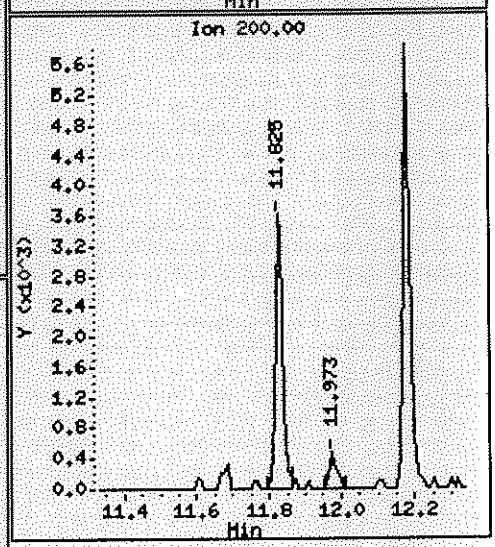
Column phase: fused silica Column diameter: 0.25

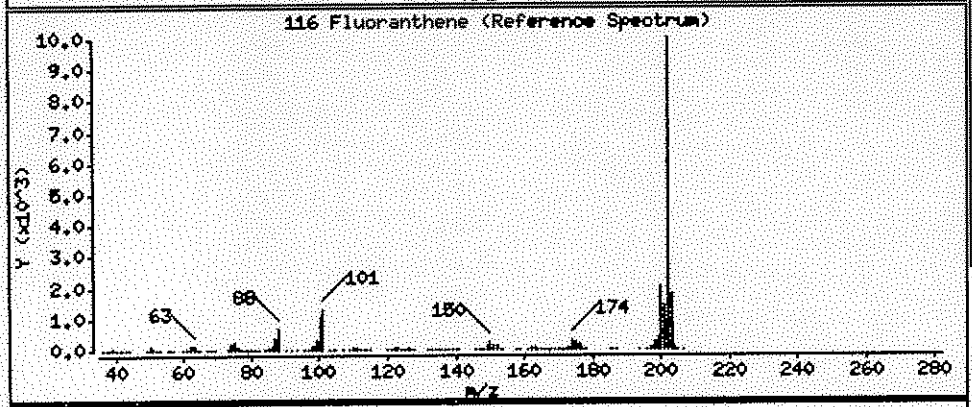
116 Fluoranthene Concentration: 173.0 ug/Kg

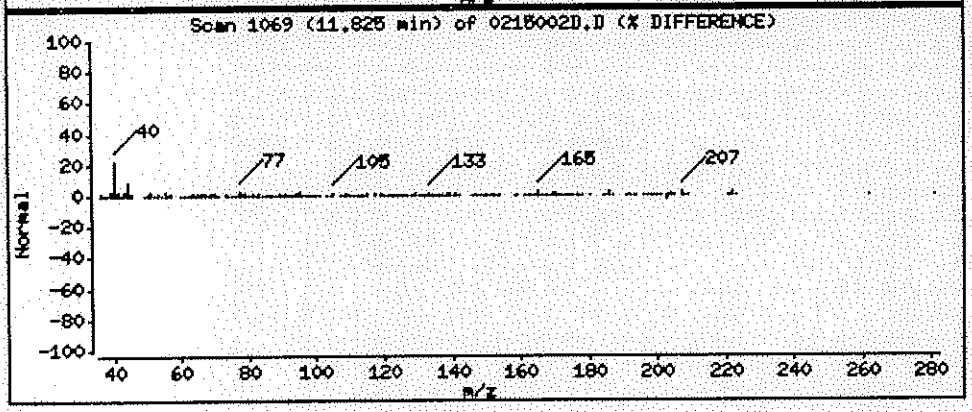












Data File: \\ELABNSH05\TARGET\chem\bna4.i\022412B4.b\0215002D.D

Date : 24-FEB-2012 21:25

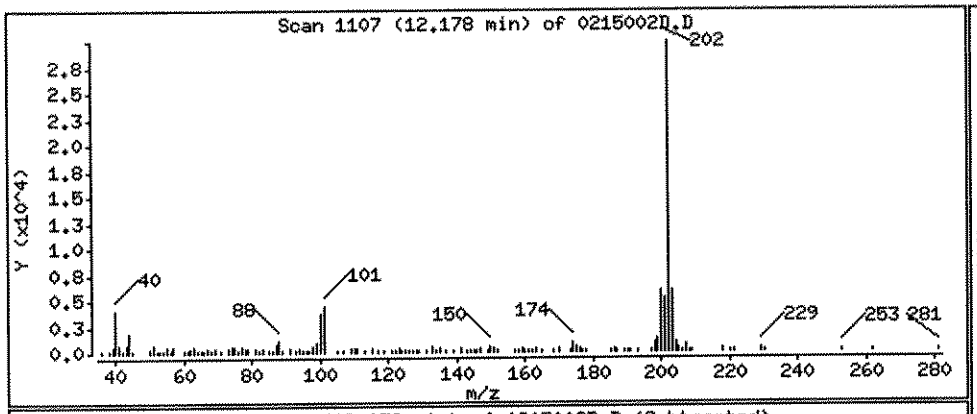
Client ID: FLC-4-SS04-0006-022 Instrument: bna4.i

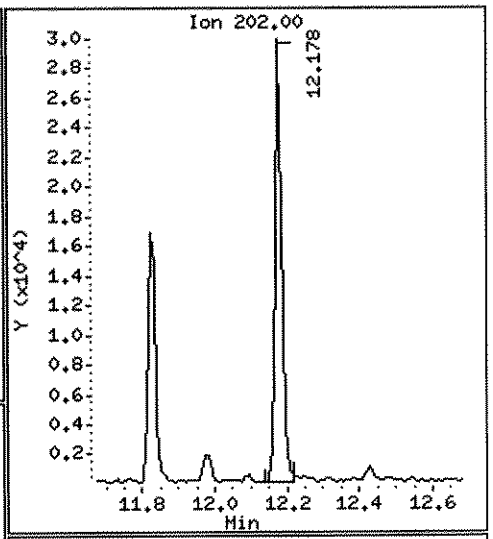
Sample Info: 1202150-02;10;15;1000;1;ug/Kg;22-FEB-2012

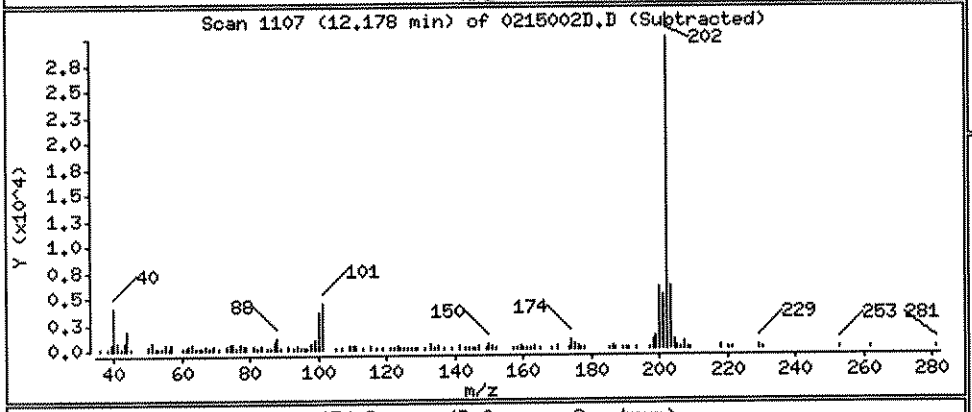
Volume Injected (uL): 1.0 Operator: MEC

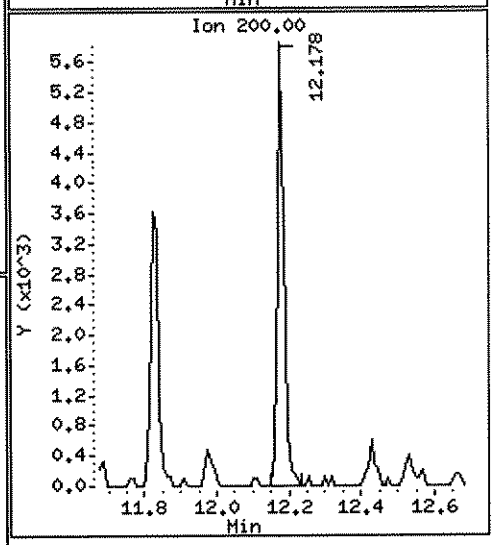
Column phase: fused silica Column diameter: 0.25

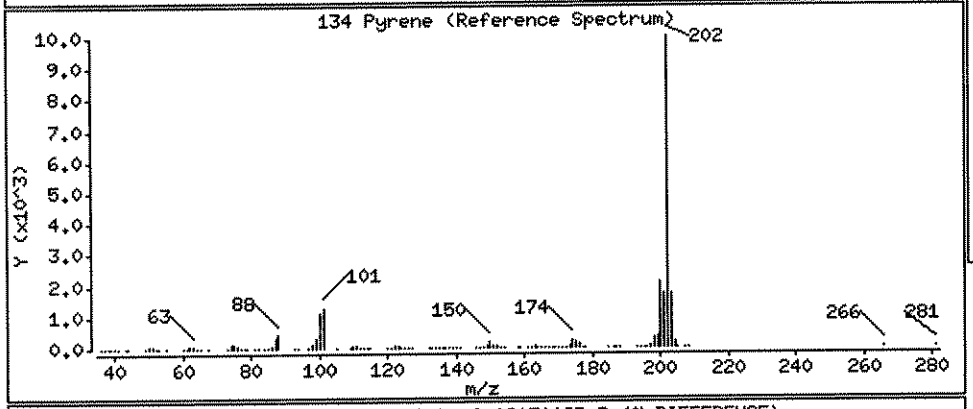
134 Pyrene Concentration: 282.1 ug/Kg

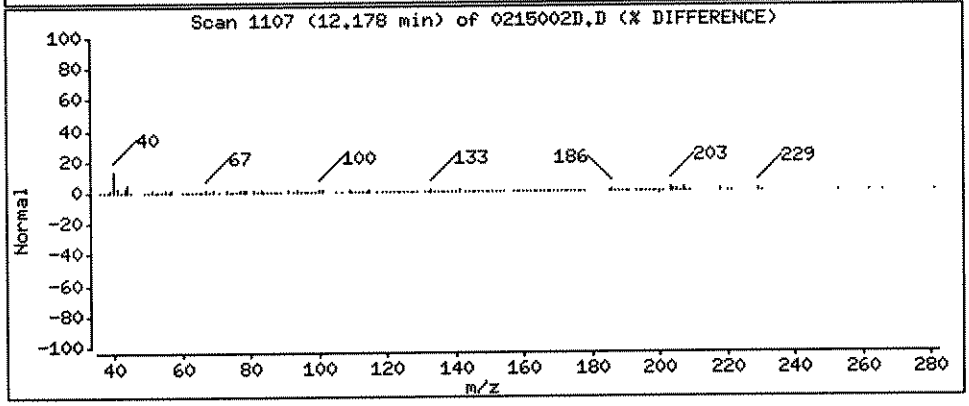












Data File: \\ELABNSH05\TARGET\chem\bna4.i\022412B4.b\0215002D.D

Date : 24-FEB-2012 21:25

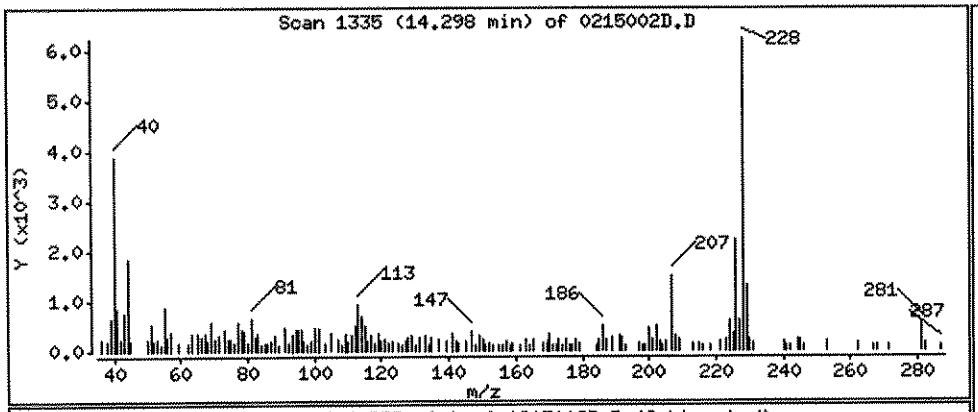
Client ID: FLC-4-SS04-0006-022 Instrument: bna4.i

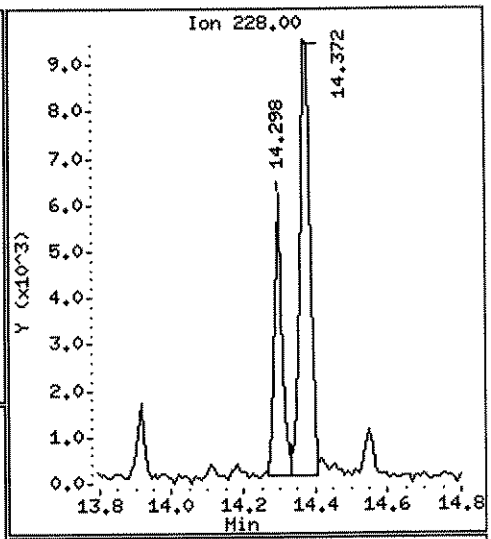
Sample Info: 1202150-02;10;15;1000;1;ug/Kg;22-FEB-2012

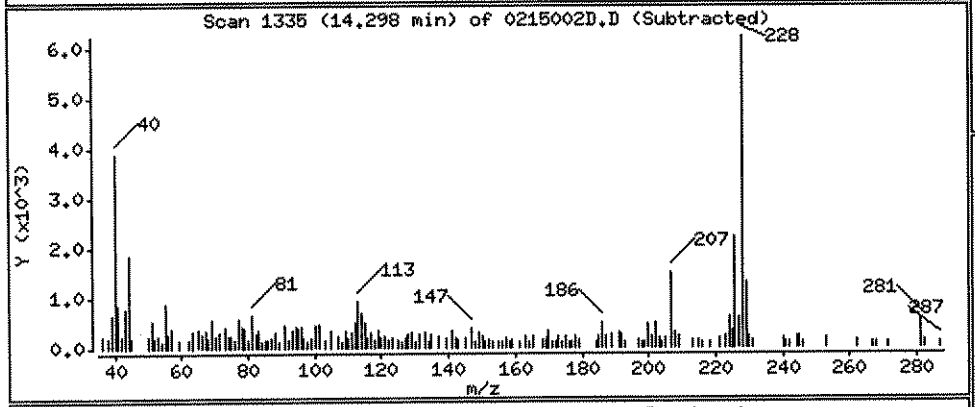
Volume Injected (uL): 1.0 Operator: MEC

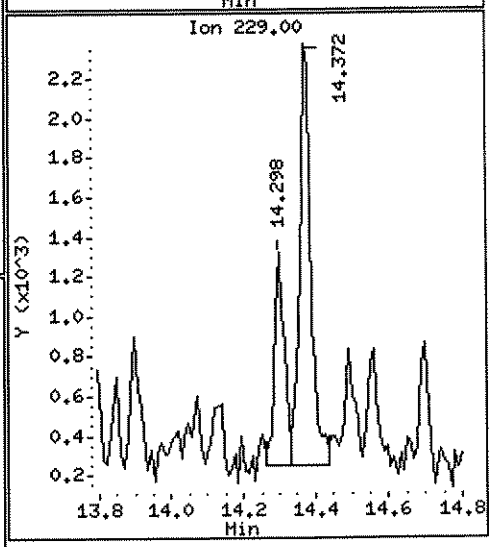
Column phase: fused silica Column diameter: 0.25

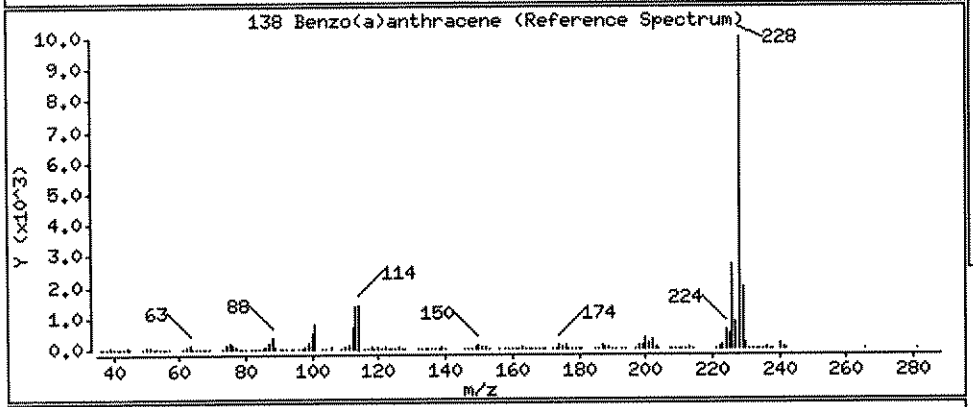
138 Benzo(a)anthracene Concentration: 106.0 ug/Kg

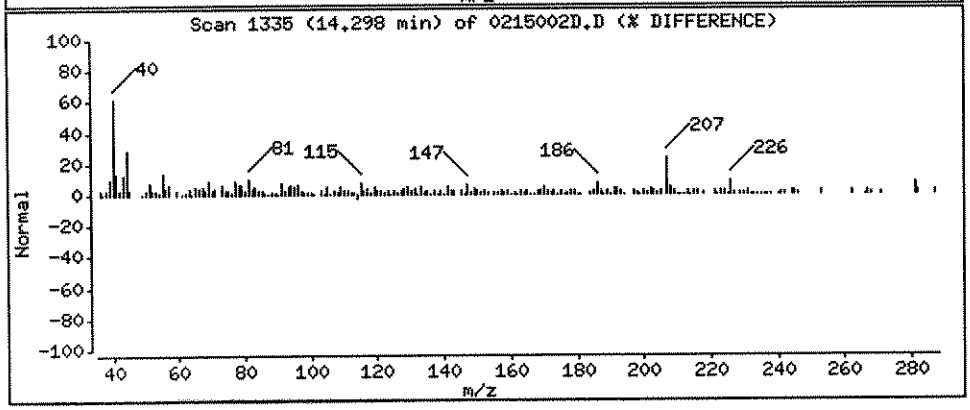












Data File: \\ELABNSH05\TARGET\chem\bna4.i\022412B4.b\0215002D.D

Date : 24-FEB-2012 21:25

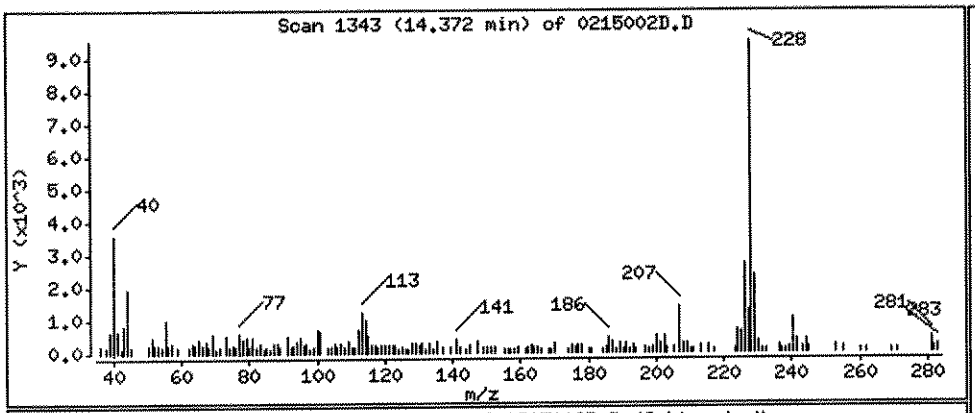
Client ID: FLC-4-SS04-0006-022 Instrument: bna4.i

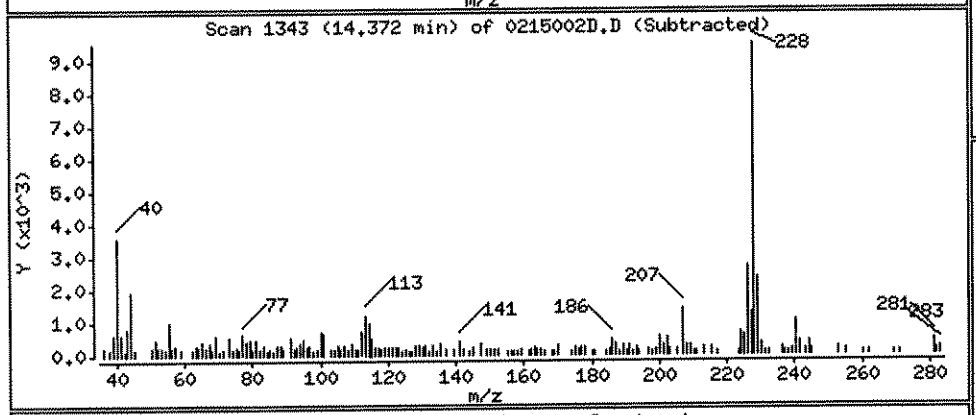
Sample Info: 1202150-02;10;15;1000;1;ug/Kg;22-FEB-2012

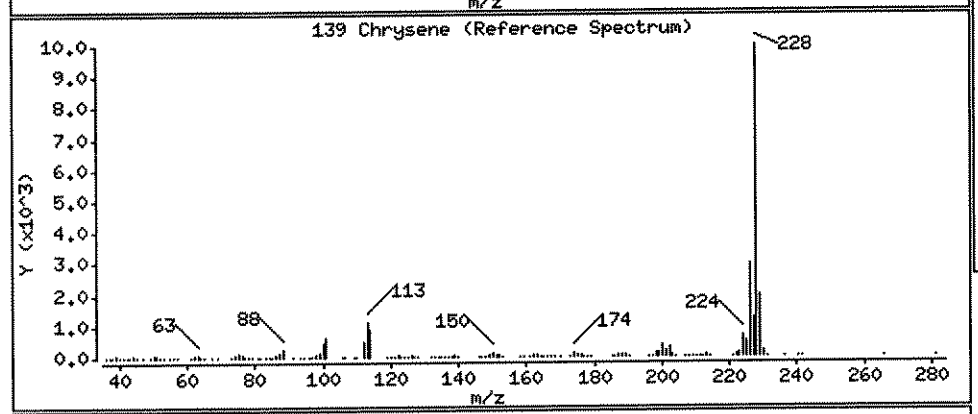
Volume Injected (uL): 1.0 Operator: MEC

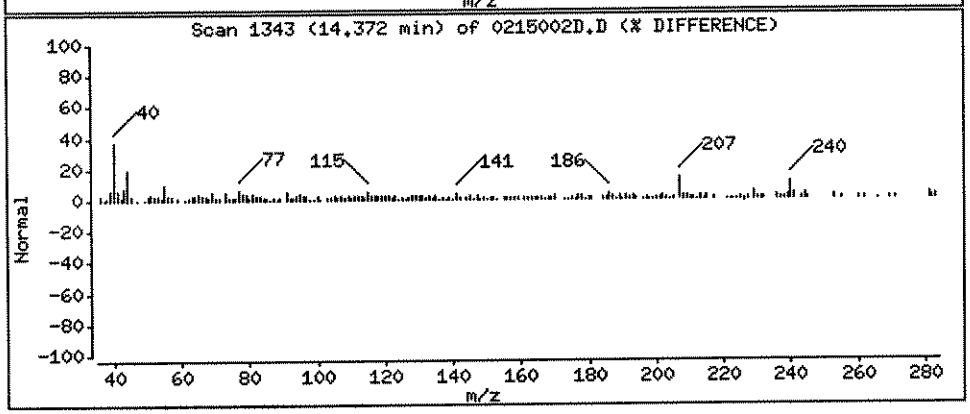
Column phase: fused silica Column diameter: 0.25

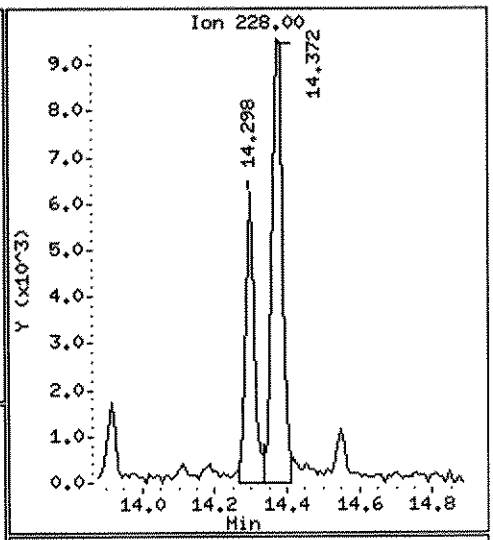
139 Chrysene Concentration: 228.1 ug/Kg

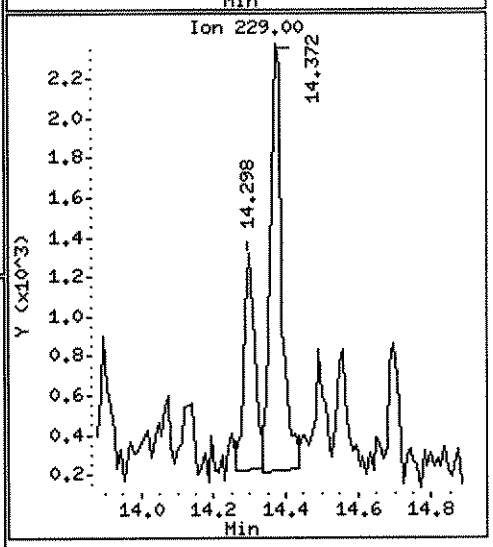






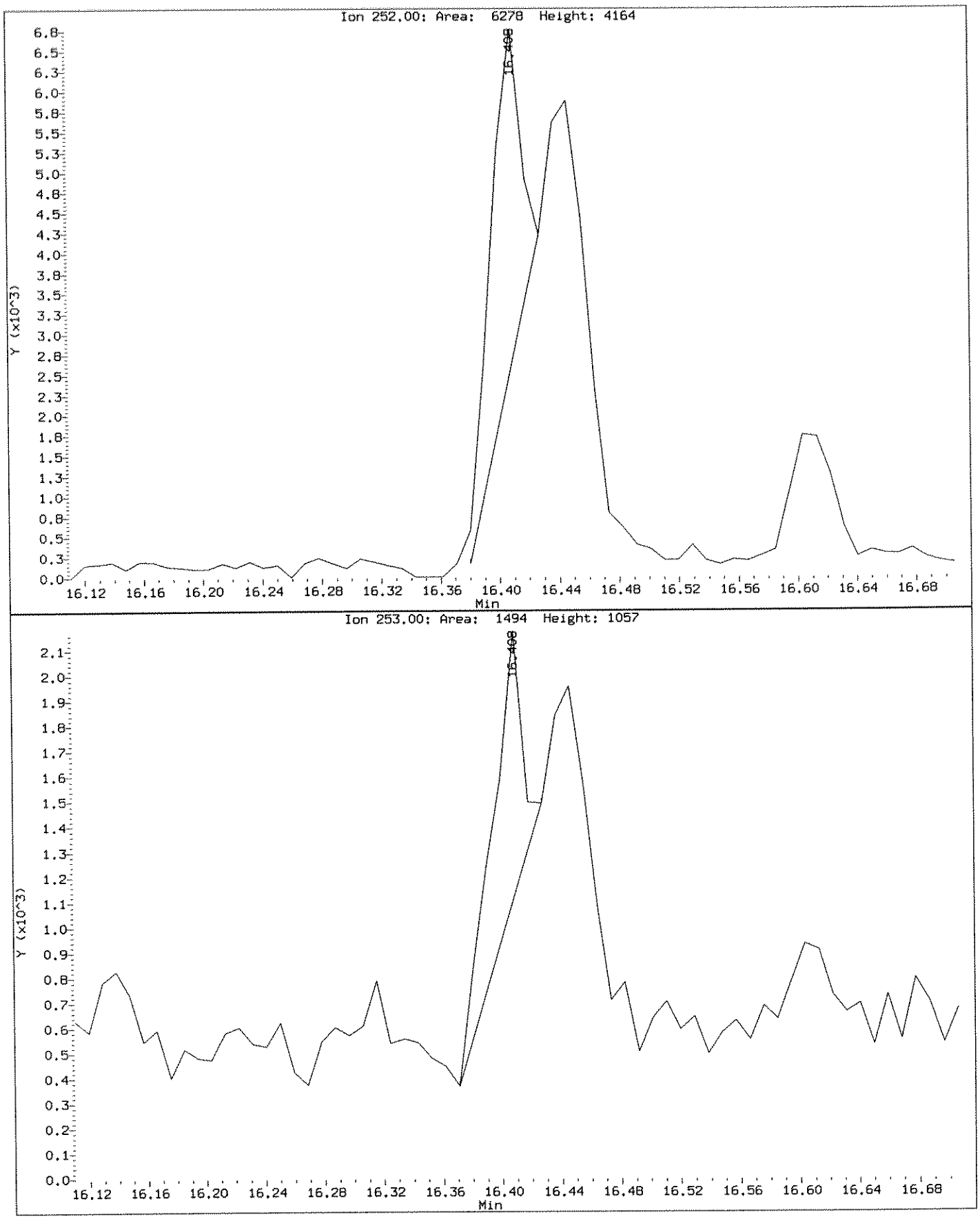






Data File: \\ELABNSH05\TARGET\chem\bna4.i\022412B4.b\0215002D.D
Injection Date: 24-FEB-2012 21:25
Instrument: bna4.i
Client Sample ID: FLC-4-SS04-0006-022

Compound: Benzo(b)fluoranthene
CAS Number: 205-99-2



Data File: \\ELABNSH05\TARGET\chem\bna4.i\022412B4.b\0215002D.D

Date : 24-FEB-2012 21:25

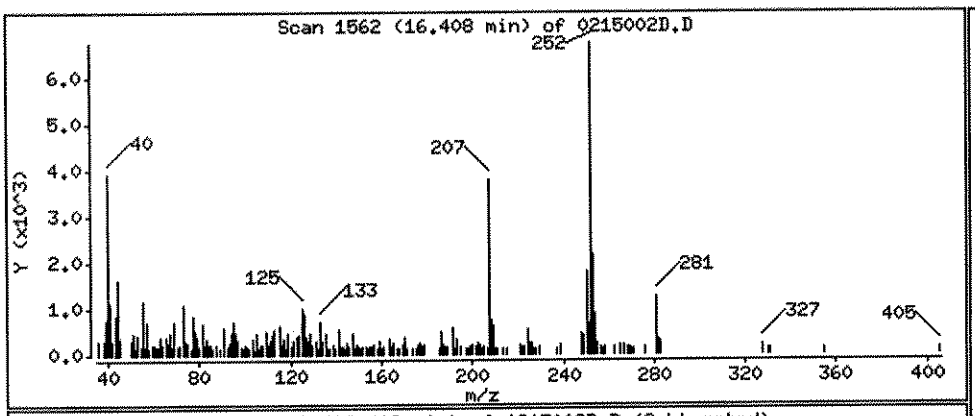
Client ID: FLC-4-SS04-0006-022 Instrument: bna4.i

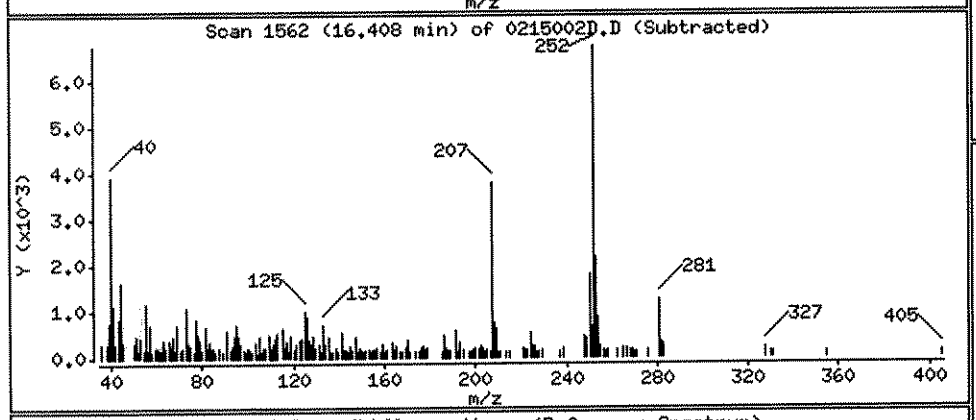
Sample Info: 1202150-02;10;15;1000;1;ug/Kg;22-FEB-2012

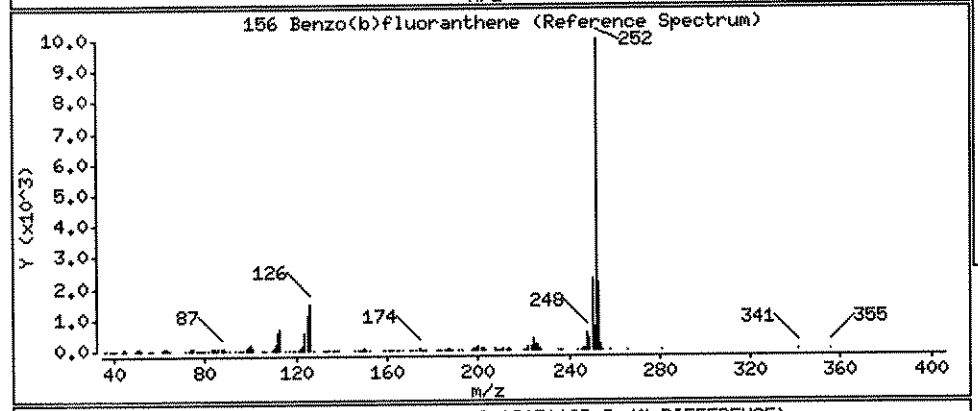
Volume Injected (uL): 1.0 Operator: HEC

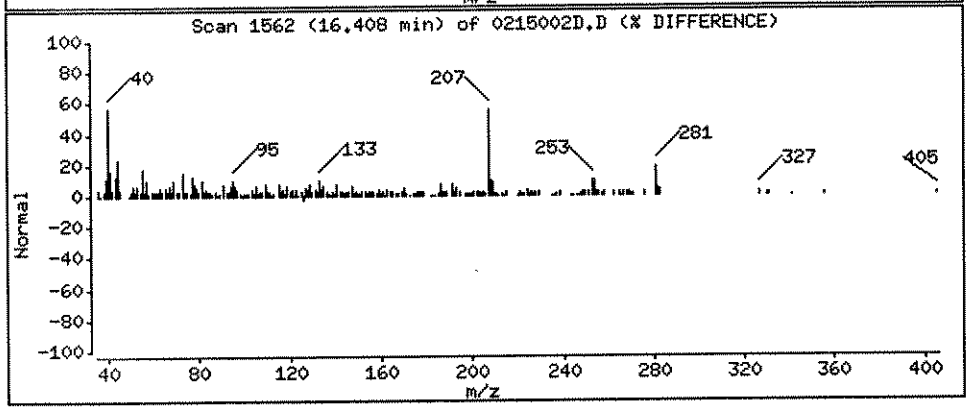
Column phase: fused silica Column diameter: 0.25

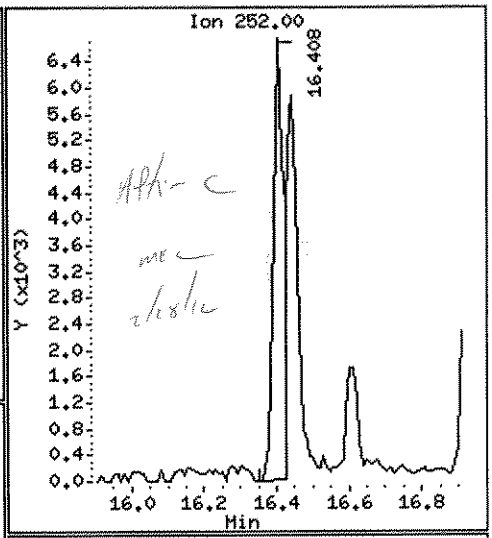
156 Benzo(b)fluoranthene Concentration: 144.9 ug/Kg

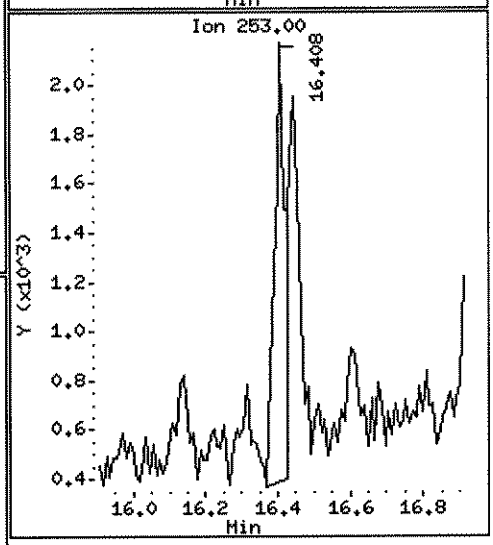






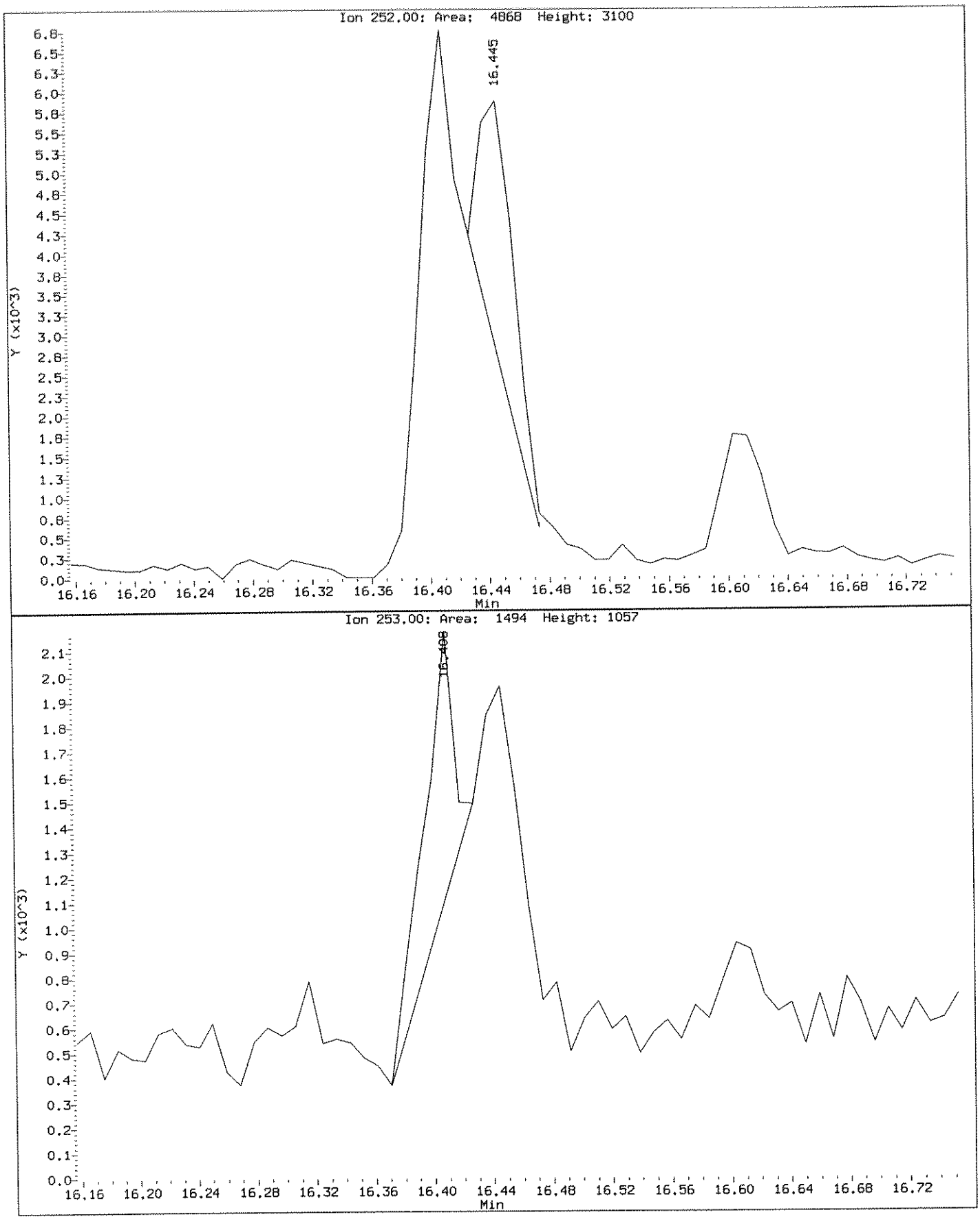






Data File: \\ELABNSHO5\TARGET\chem\bna4.i\022412B4.b\0215002D.D
Injection Date: 24-FEB-2012 21:25
Instrument: bna4.i
Client Sample ID: FLC-4-5504-0006-022

Compound: Benzo(k)fluoranthene
CAS Number: 207-08-9



Data File: \\ELABNSH05\TARGET\chem\bna4.i\022412B4.b\0215002D.D

Date : 24-FEB-2012 21:25

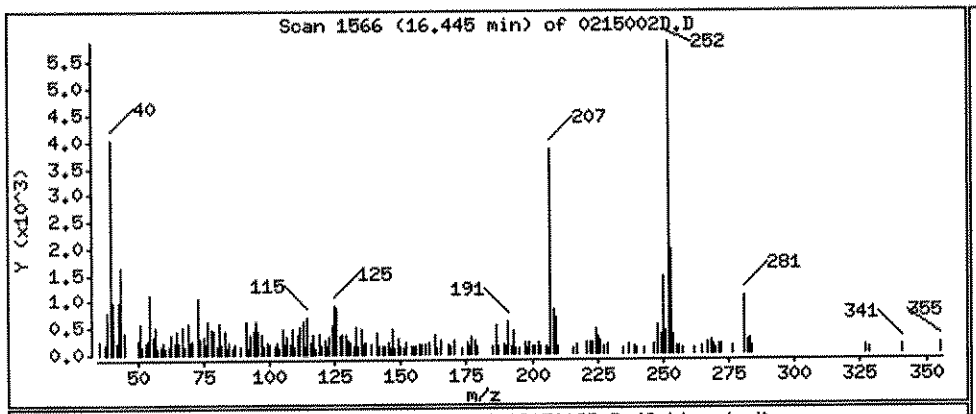
Client ID: FLC-4-SS04-0006-022 Instrument: bna4.i

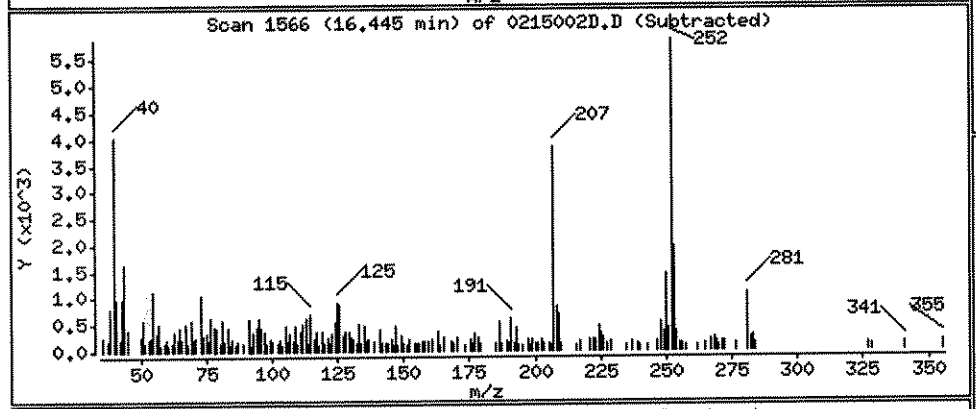
Sample Info: 1202150-02;10;15;1000;1;ug/Kg;22-FEB-2012

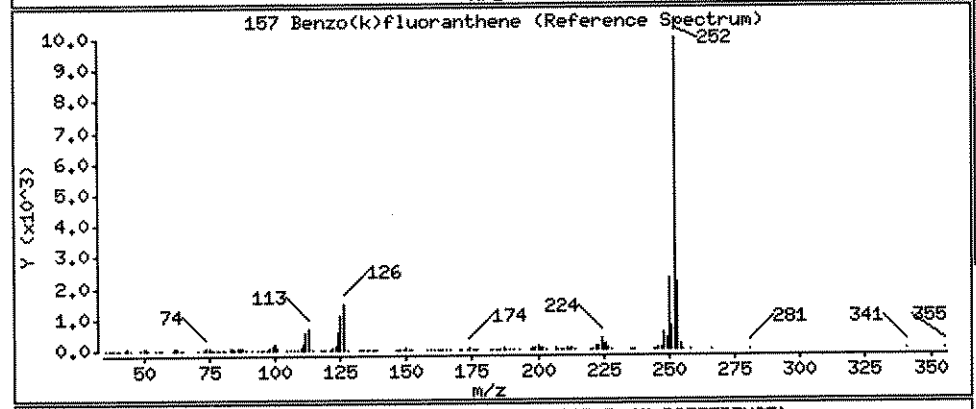
Volume Injected (uL): 1.0 Operator: MEC

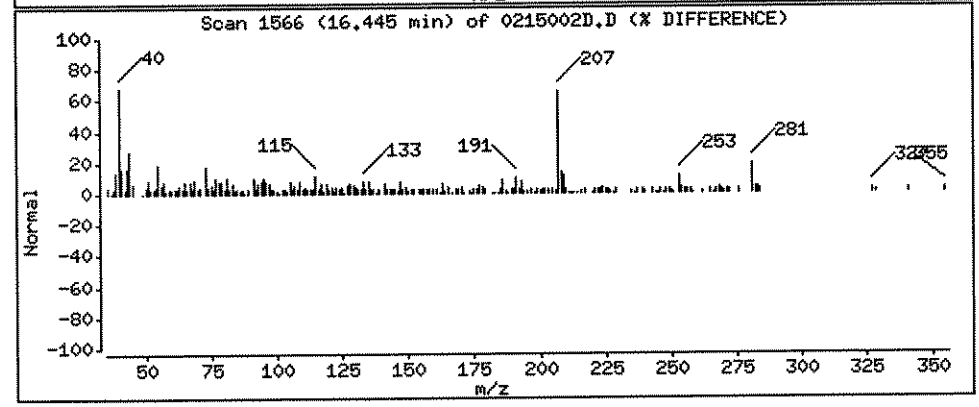
Column phase: fused silica Column diameter: 0.25

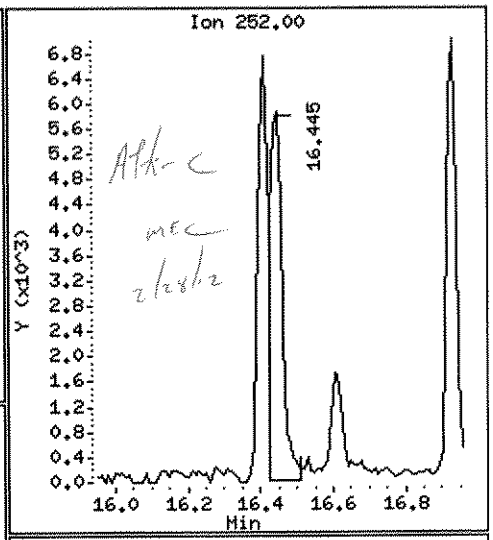
157 Benzo(k)fluoranthene Concentration: 147.8 ug/Kg

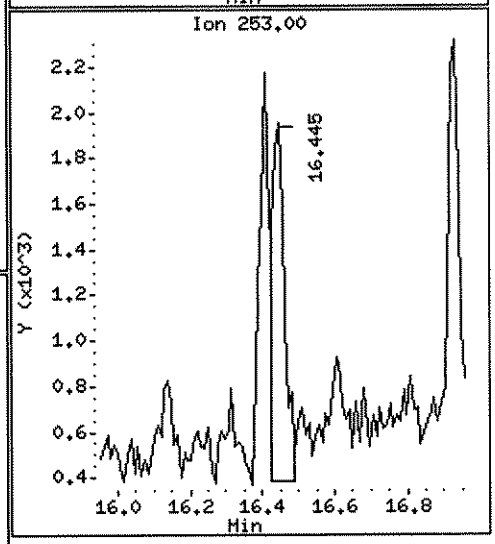












Data File: \\ELABNSH06\TARGET\chem\bna4.i\022412B4.b\0215002D.D

Date : 24-FEB-2012 21:26

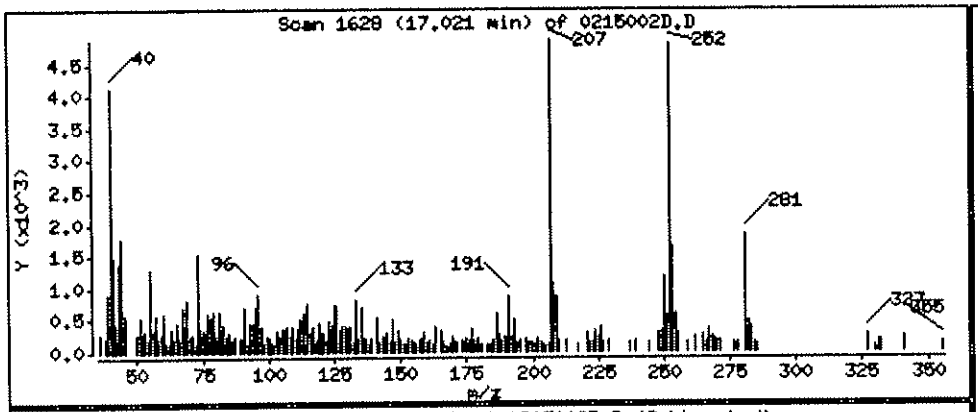
Client ID: FLC-4-SS04-0006-022 Instrument: bna4.i

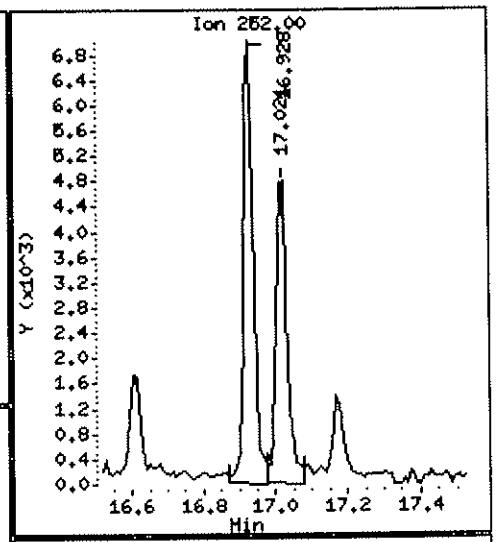
Sample Info: 1202150-02;10;15;1000;1;ug/Kg;22-FEB-2012

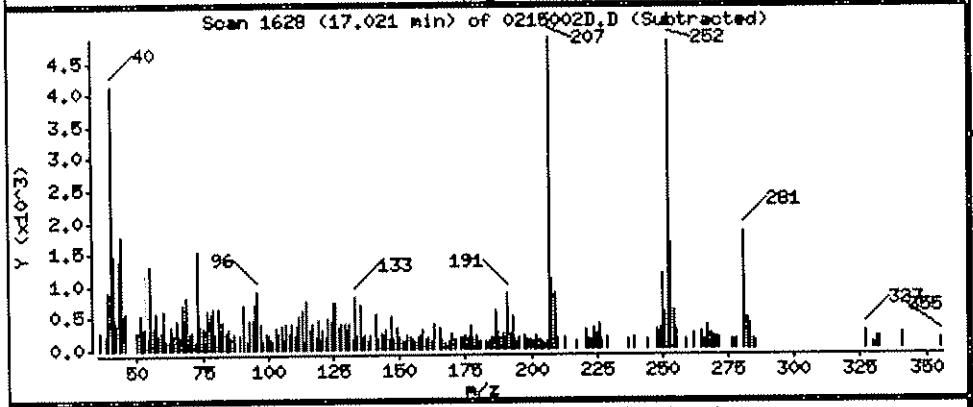
Volume Injected (uL): 1.0 Operator: MEC

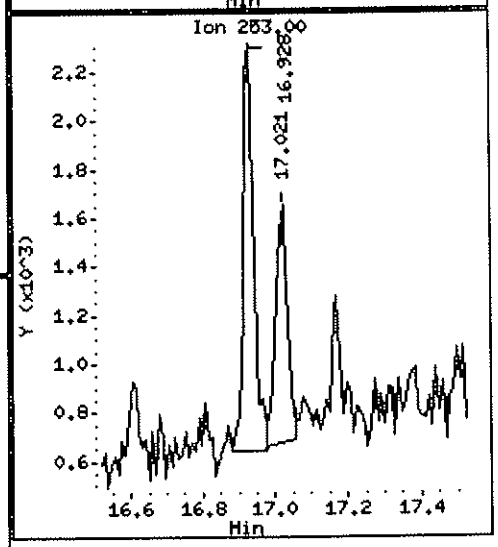
Column phase: fused silica Column diameter: 0.25

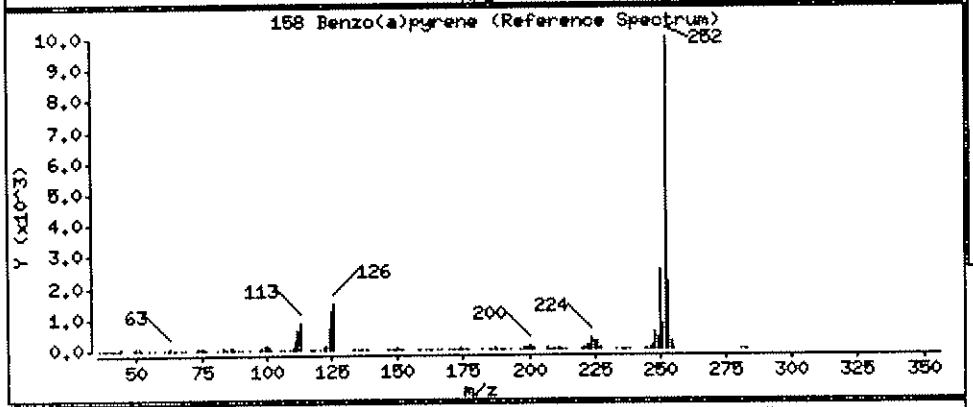
158 Benzo(a)pyrene Concentration: 149.8 ug/Kg

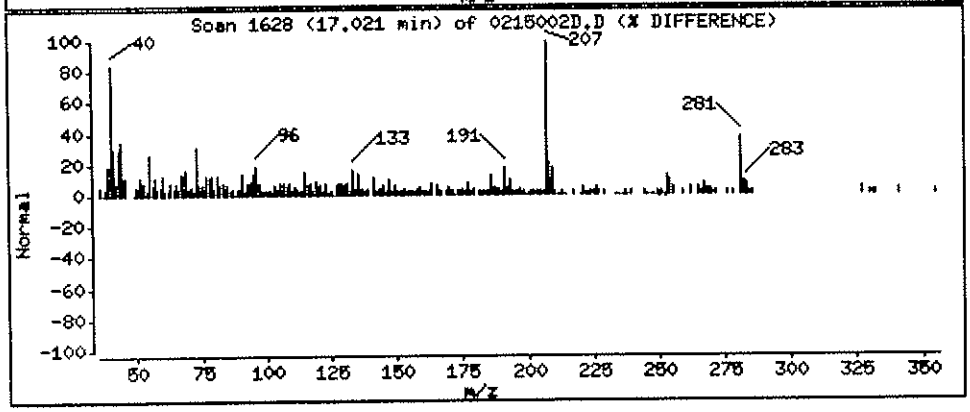












Data File: \\ELABNSH05\TARGET\chem\bna4.i\022412B4.b\0215002D.D

Date : 24-FEB-2012 21:25

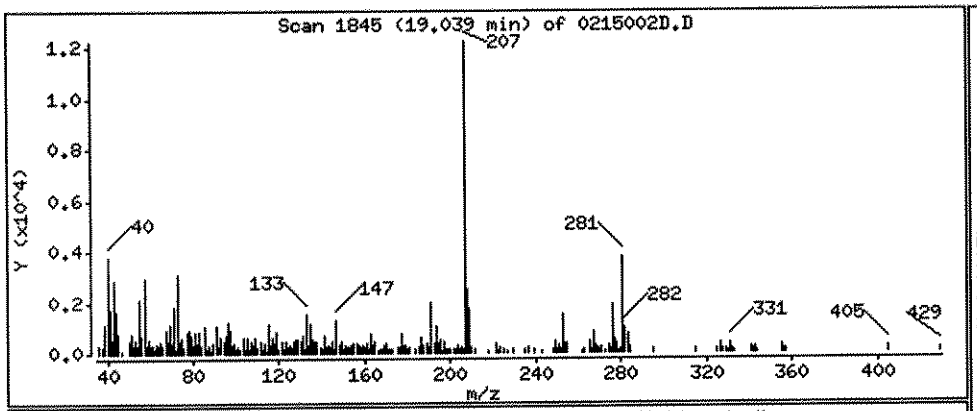
Client ID: FLC-4-SS04-0006-022 Instrument: bna4.i

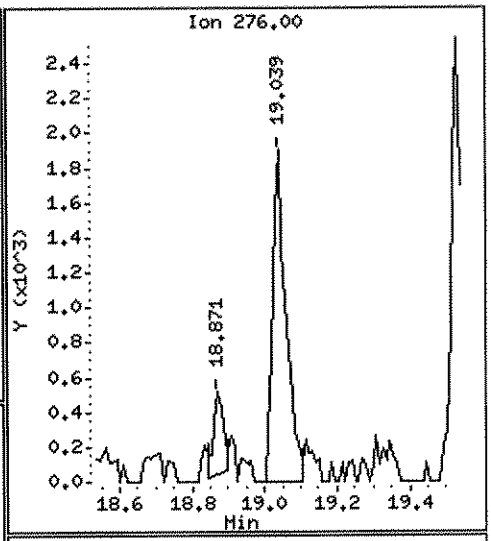
Sample Info: 1202150-02;10;15;1000;1;ug/Kg;22-FEB-2012

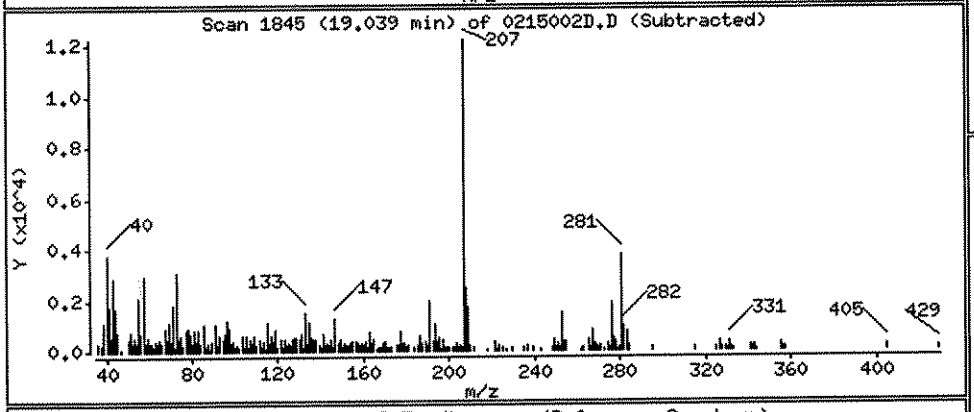
Volume Injected (uL): 1.0 Operator: MEC

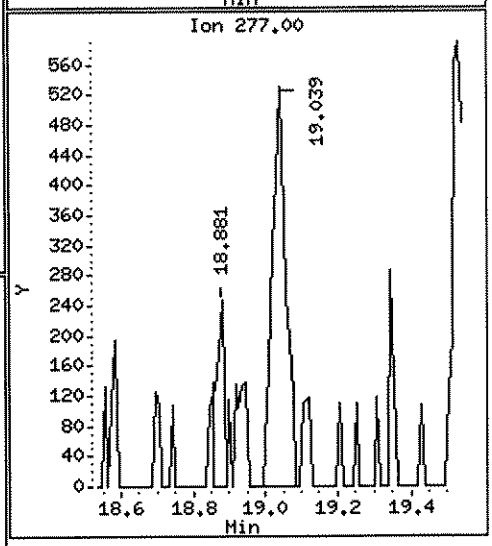
Column phase: fused silica Column diameter: 0.25

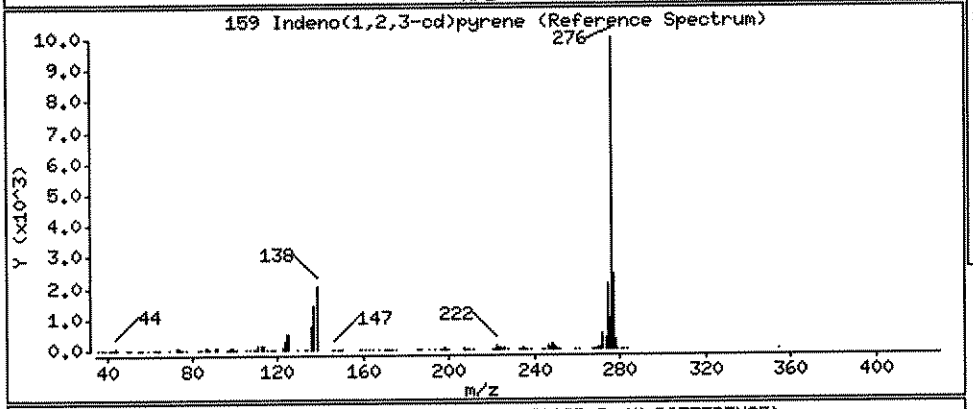
159 Indeno(1,2,3-cd)pyrene Concentration: 86.86 ug/Kg

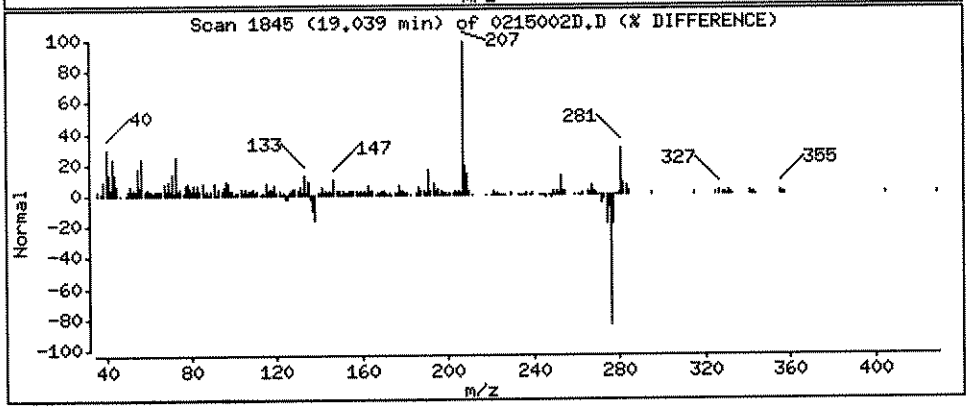












Data File: \\ELABNSH05\TARGET\chem\bna4.i\022412B4.b\0215002D.D

Date : 24-FEB-2012 21:25

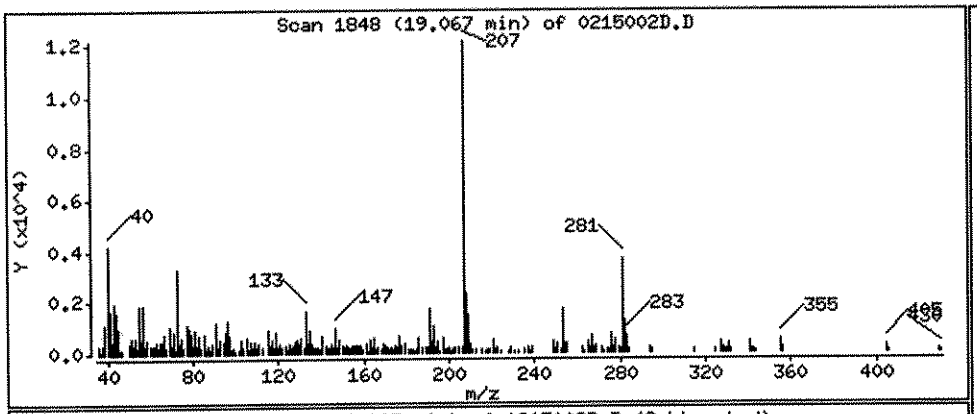
Client ID: FLC-4-SS04-0006-022 Instrument: bna4.i

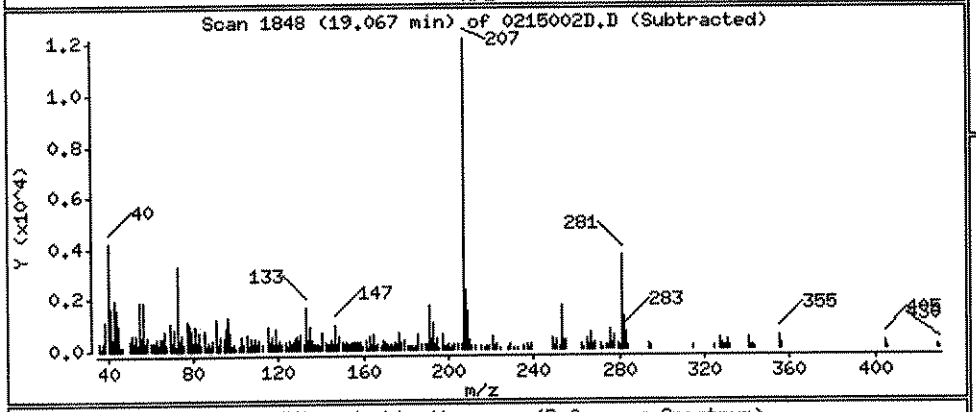
Sample Info: 1202150-02;10;15;1000;1;ug/Kg;22-FEB-2012

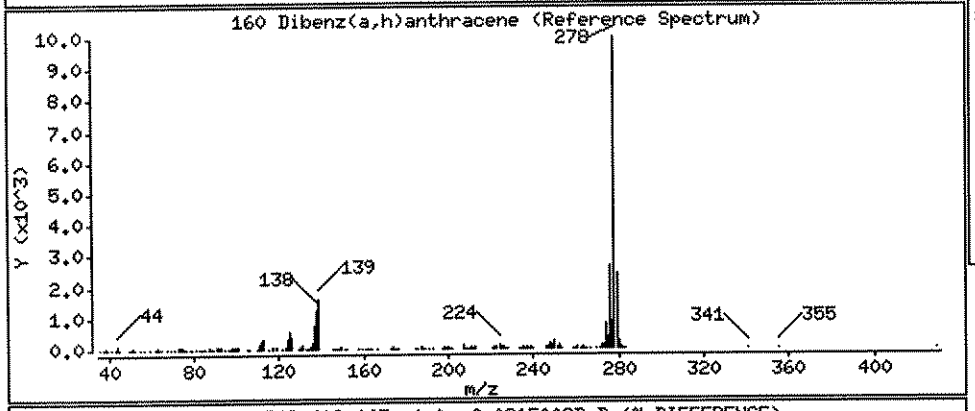
Volume Injected (uL): 1.0 Operator: MEC

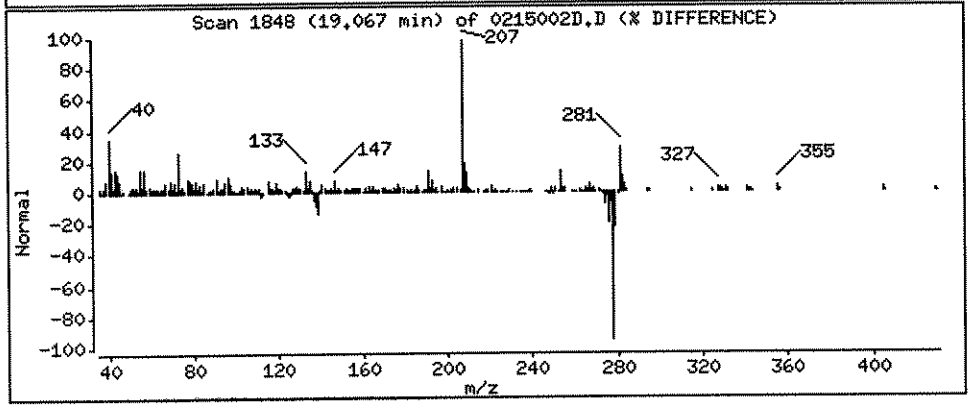
Column phase: fused silica Column diameter: 0.25

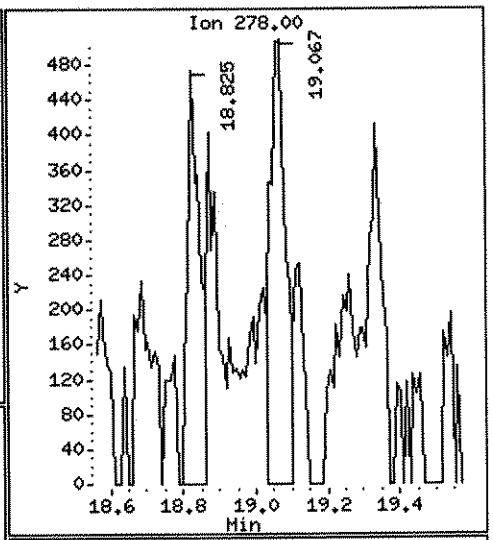
160 Dibenz(a,h)anthracene Concentration: 36.75 ug/Kg

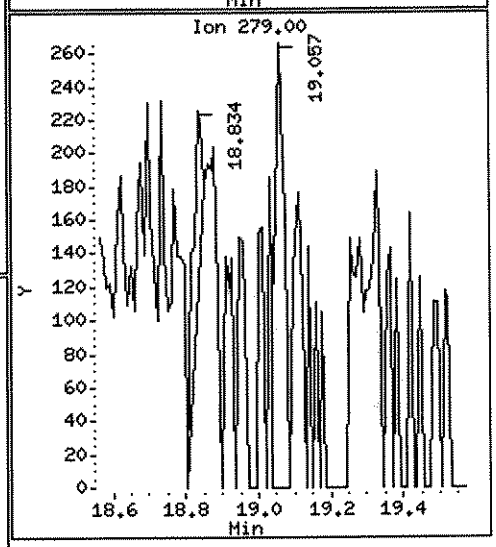












Data File: \\ELABNSH05\TARGET\chem\bna4.i\022412B4.b\0215002D.D

Date : 24-FEB-2012 21:25

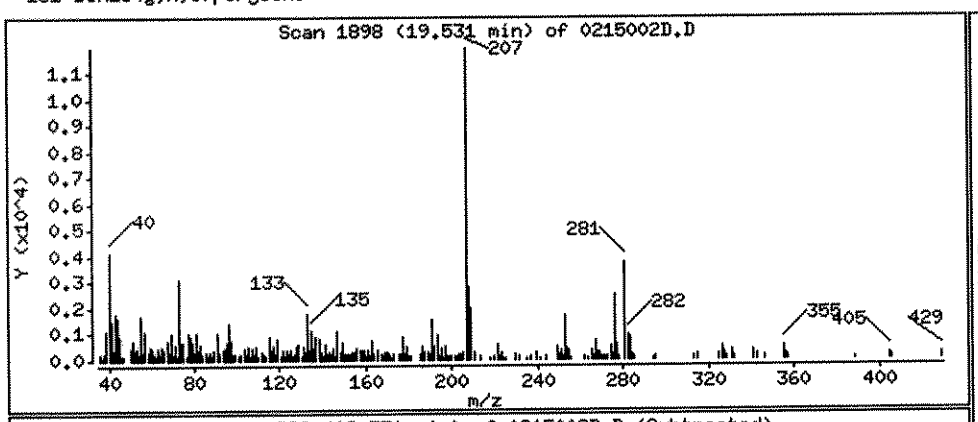
Client ID: FLC-4-SS04-0006-022 Instrument: bna4.i

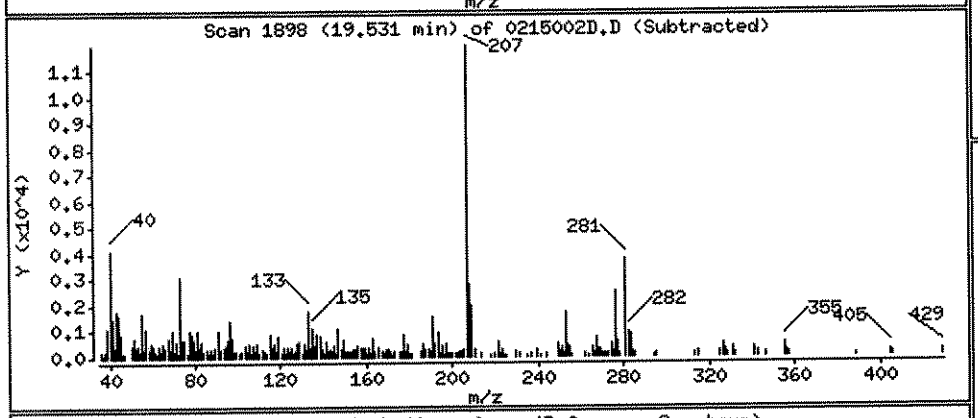
Sample Info: 1202150-02;10;15;1000;1;ug/Kg;22-FEB-2012

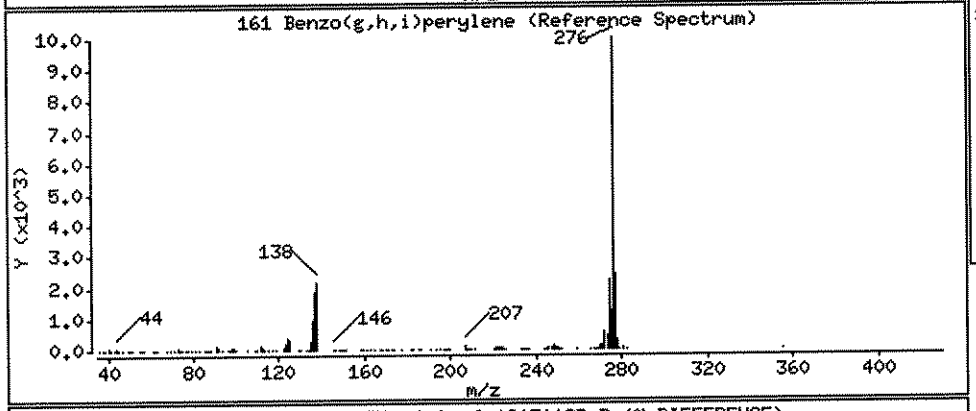
Volume Injected (uL): 1.0 Operator: MEC

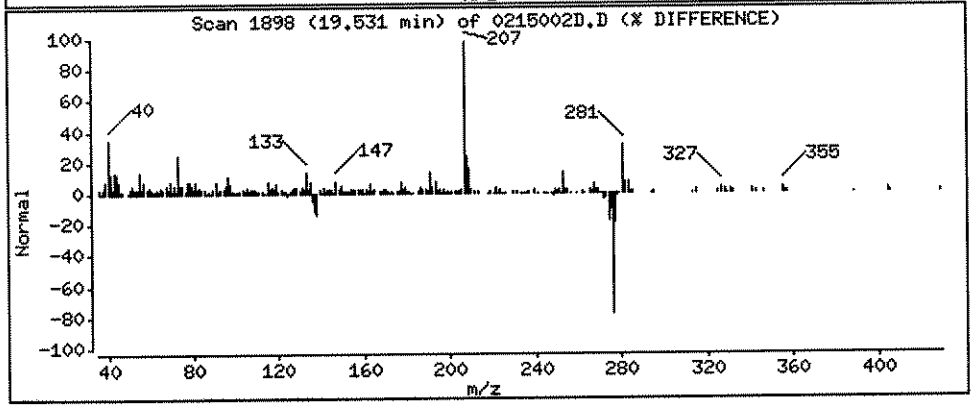
Column phase: fused silica Column diameter: 0.25

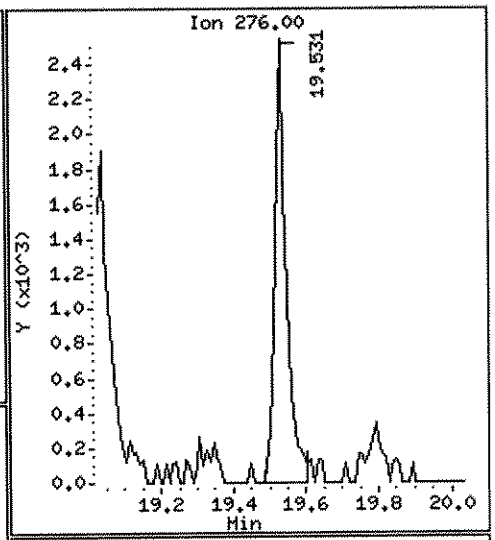
161 Benzo(g,h,i)perylene Concentration: 111.2 ug/Kg

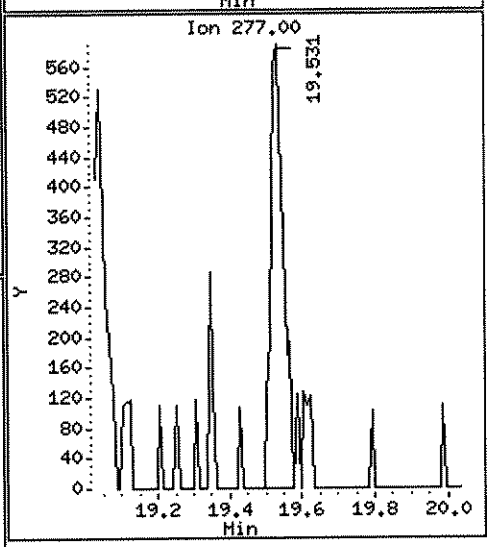












Data File: \\ELABNSH05\TARGET\chem\bna4.i\022412B4.b\0215003.D
Report Date: 28-Feb-2012 10:47

J.H. 3.1.12

Laboratory Name

Data file : \\ELABNSH05\TARGET\chem\bna4.i\022412B4.b\0215003.D
Lab Smp Id: 1202150-03 Client Smp ID: FLC-4-PO1-0624-0221
Inj Date : 24-FEB-2012 21:52 MS Autotune Date: 15-FEB-2012 09:23
Operator : MEC Inst ID: bna4.i
Smp Info : 1202150-03;1;15;1000;1;ug/Kg;22-FEB-2012
Misc Info : ;0;;;;2B22014;pahlow.sub;
Comment :
Method : \\ELABNSH05\TARGET\chem\bna4.i\022412B4.b\IXBN4LOW.m
Meth Date : 28-Feb-2012 09:32 mcobb Quant Type: ISTD
Cal Date : 20-FEB-2012 16:29 Cal File: SEQ-CAL1.D
Als bottle: 26
Dil Factor: 1.00000
Integrator: HP RTE Compound Sublist: pahlow.sub
Target Version: 4.04
Processing Host: TARGET09_VM

Concentration Formula: Amt * DF * Uf * Vt*Vi/(Amt * Vi * (Solids/100))

Name	Value	Description
DF	1.000	Dilution Factor
Uf	1.000	ng unit correction factor
Vt	1000.000	Volume of final extract (uL)(1000 low, 2
Amt	15.000	Mass of initial extraction
Vi	1.000	Volume injected (uL)
Solids	100.000	Percent Solids

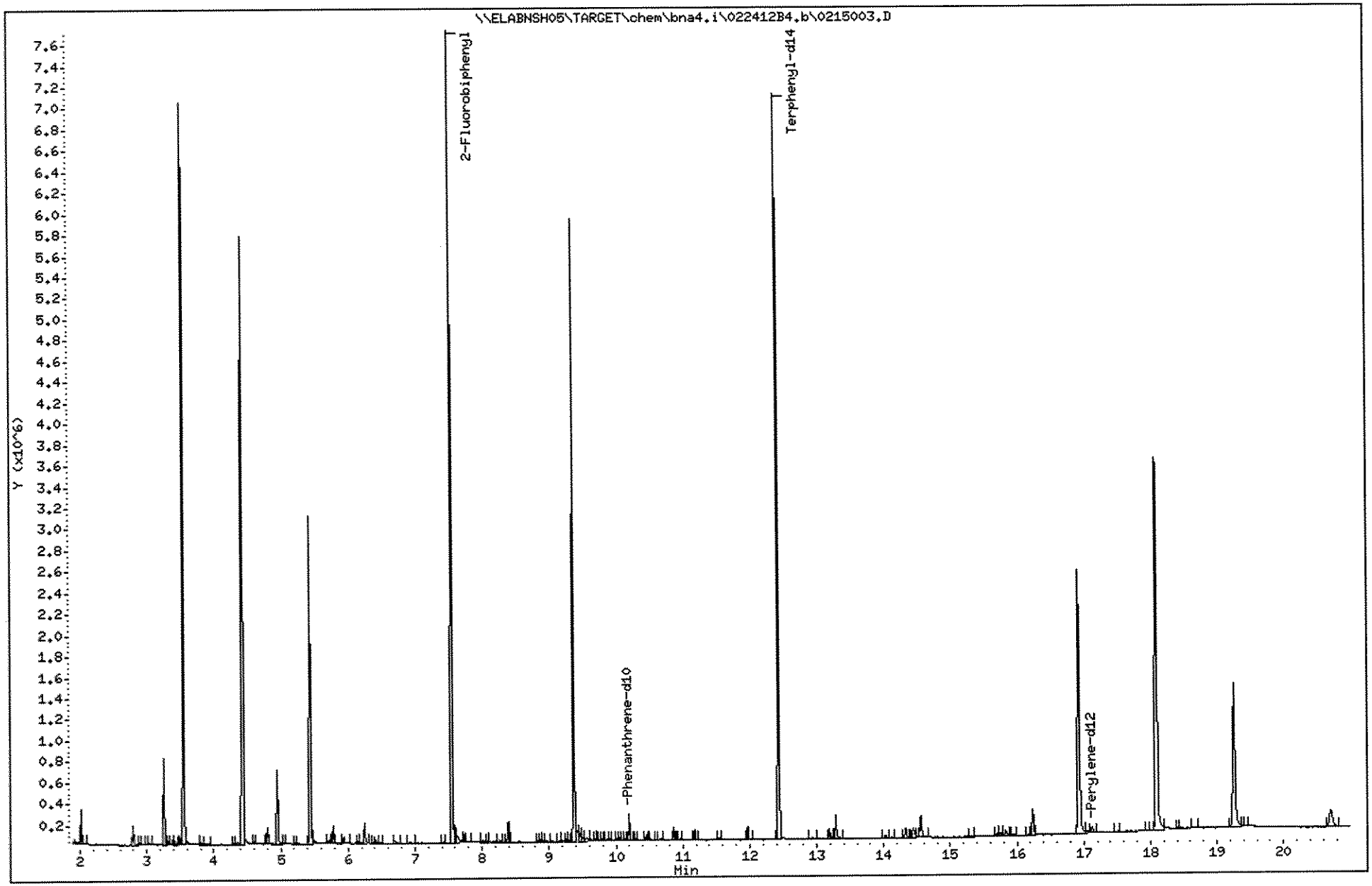
Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS ON-COLUMN (ng/ul)	FINAL (ug/Kg)
$ 74 2-Fluorobiphenyl	172	7.557	7.557	(0.741)	2761735	34.3003	2287
* 102 Phenanthrene-d10	188	10.197	10.197	(1.000)	100152	1.00000	
* 154 Perylene-d12	264	17.133	17.123	(1.000)	40682	1.00000	
$ 135 Terphenyl-d14	244	12.438	12.428	(1.220)	3300405	47.6834	3179

MEC
2/28/12

Data File: \\ELABNSH05\TARGET\chem\bna4.i\022412B4.b\0215003.D
Date : 24-FEB-2012 21:52
Client ID: FLC-4-P01-0624-0221
Sample Info: 1202150-03;1;15;1000;1;ug/Kg;22-FEB-2012
Volume Injected (uL): 1.0
Column phase: fused silica

Instrument: bna4.i

Operator: MEC
Column diameter: 0.25



1202150

Sequence Name: D:\MSDCHEM\1\SEQUENCE\022412B4.S
Comment: EPA8270
Operator: MEC
Data Path: D:\DATA\022412B4\
Instrument Control Pre-Seq Cmd:
Data Analysis Pre-Seq Cmd:

1097

Instrument Control Post-Seq Cmd:
Data Analysis Post-Seq Cmd:

MEC 2/25/12

Method Sections To Run
(X) Full Method
( ) Reprocessing Only

On A Barcode Mismatch
(X) Inject Anyway
( ) Don't Inject

Line			Sample Name/Misc Info	
1)	Sample	1	SEQ-TUN1 DFBN4LOW DF0224B1;;;;;;12B0448	10:06, 2/24
2)	Sample	2	SEQ-CCV1 IXBN4LOW SEQ-CCV1;;;;;;12B0746	
3)	Pause			
4)	Spike	3	B21009L1 IXBN4LOW 2B21009-BS2;1;1000;1000;1;ug/	
5)	Duplicate	4	B21009L2 IXBN4LOW 2B21009-BSD2;1;1000;1000;1;ug	
6)	Blank	5	B21009B1 IXBN4LOW 2B21009-BLK2;1;1000;1000;1;ug	
7)	Blank	6	B15010B2 IXBN4LOW 2B15010-BLK2;1;1000;1000;1;ug	
8)	Sample	7	0209001 IXBN4LOW 1202090-01;1;1000;1000;1;ug/L	
9)	Sample	8	0209002 IXBN4LOW 1202090-02;1;500;1000;1;ug/L;	
10)	Sample	9	0209104 IXBN4LOW 1202091-04;1;1000;1000;1;ug/L	
11)	Sample	10	0212709 IXBN4LOW 1202127-09;1;1000;1000;1;ug/L	
12)	Sample	11	0212709M IXBN4LOW 2B21009-MS3;1;1000;1000;1;ug/	RR High IS
13)	Duplicate	12	0212709S IXBN4LOW 2B21009-MSD3;1;1000;1000;1;ug	
14)	Sample	13	0213102 IXBN4LOW 1202131-02;1;1000;1000;1;ug/L	
15)	Sample	14	0213102M IXBN4LOW 2B21009-MS4;1;1000;1000;1;ug/	RR High IS
16)	Duplicate	15	0213102S IXBN4LOW 2B21009-MSD4;1;1000;1000;1;ug	
17)	Sample	16	0213108 IXBN4LOW 1202131-08;1;1000;1000;1;ug/L	
18)	Sample	17	0213902 IXBN4LOW 1202139-02;1;1000;1000;1;ug/L	- RR @ 10X
19)	Sample	18	0213903 IXBN4LOW 1202139-03;1;1000;1000;1;ug/L	- RR @ 10X
20)	Sample	19	0213904 IXBN4LOW 1202139-04;1;1000;1000;1;ug/L	
21)	Spike	20	B22014L1 IXBN4LOW 2B22014-BS1;1;15;1000;1;ug/Kg	
22)	Blank	21	B22014B1 IXBN4LOW 2B22014-BLK1;1;15;1000;1;ug/K	
23)	Sample	22	0215001D IXBN4LOW 1202150-01;10;15;1000;1;ug/Kg	
24)	Spike	23	0215001M IXBN4LOW 2B22014-MS1;10;15;1000;1;ug/K	
25)	Duplicate	24	0215001S IXBN4LOW 2B22014-MSD1;10;15;1000;1;ug/	
26)	Sample	25	0215002D IXBN4LOW 1202150-02;10;15;1000;1;ug/Kg	
27)	Sample	26	0215003 IXBN4LOW 1202150-03;1;15;1000;1;ug/Kg;	21:52, 2/24
28)	Sample	1	SEQ-TUN2 DFBN4LOW DF0224B1;;;;;;12B0448	22:24, 2/24
29)	Sample	2	SEQ-CCV2 IXBN4LOW SEQ-CCV1;;;;;; 12B0746	
30)	Sample	27	0215004D IXBN4LOW 1202150-04;10;15;1000;1;ug/Kg	
31)	Sample	28	0215006 IXBN4LOW 1202150-06;1;15;1000;1;ug/Kg;	
32)	Sample	29	0215007D IXBN4LOW 1202150-07;50;15;1000;1;ug/Kg	
33)	Sample	30	0215008 IXBN4LOW 1202150-08;1;15;1000;1;ug/Kg;	
34)	Sample	31	0215009 IXBN4LOW 1202150-09;1;15;1000;1;ug/Kg;	
35)	Sample	32	0215010 IXBN4LOW 1202150-10;1;15;1000;1;ug/Kg;	
36)	Sample	33	0215011 IXBN4LOW 1202150-11;1;15;1000;1;ug/Kg;	TR
37)	Sample	34	0215012D IXBN4LOW 1202150-12;10;15;1000;1;ug/Kg	
38)	Sample	35	0215013 IXBN4LOW 1202150-13;1;15;1000;1;ug/Kg;	
39)	Sample	36	0215015 IXBN4LOW 1202150-15;1;15;1000;1;ug/Kg;	
40)	Spike	37	0215015M IXBN4LOW 2B22014-MS2;1;15;1000;1;ug/Kg	
41)	Duplicate	38	0215015S IXBN4LOW 2B22014-MSD2;1;15;1000;1;ug/K	
42)	Sample	39	0215016 IXBN4LOW 1202150-16;1;15;1000;1;ug/Kg;	
43)	Sample	40	0215017 IXBN4LOW 1202150-17;1;15;1000;1;ug/Kg;	

Last Modified: Fri Feb 24 15:57:44 2012

Sequence Name: C:\msdchem\1\sequence\02241ZB4.S

1098

	Line Type	Vial	DataFile	Method	Sample Name
44)	Sample	41	0215018	IXBN4LOW	1202150-18;1;15;1000;1;ug/Kg;
45)	Sample	42	0215019	IXBN4LOW	1202150-19;1;15;1000;1;ug/Kg;
46)	Sample	43	0215020	IXBN4LOW	1202150-20;1;15;1000;1;ug/Kg;
47)	Sample	44	0215021	IXBN4LOW	1202150-21;1;15;1000;1;ug/Kg; 7:16, 2/25

2/25/12
MEC

Last Modified: Fri Feb 24 15:57:44 2012

Data File: \\ELABNSH05\TARGET\chem\bna4.i\022412B4E.b\SEQ-TUN2.D

Date : 24-FEB-2012 22:24

Client ID: 50ppm DFTPP

Instrument: bna4.i

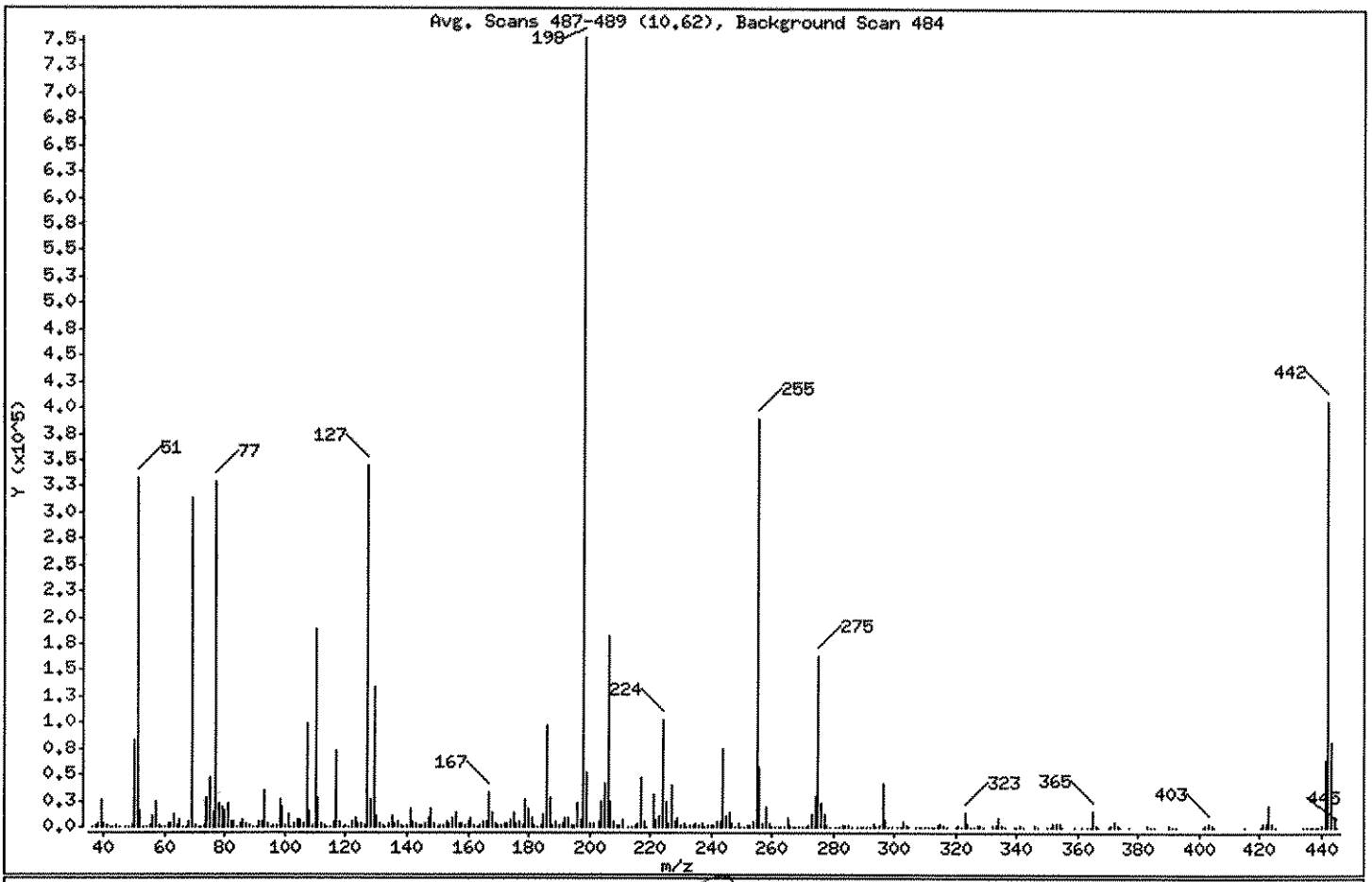
Sample Info: DF0224B1;;;;;;12B0448

Operator: MEC

Column phase: DB5-MS

Column diameter: 0.25

1 dftpp



m/e	ION ABUNDANCE CRITERIA	% RELATIVE ABUNDANCE
198	Base Peak, 100% relative abundance	100.00
51	30.00 - 60.00% of mass 198	44.09
68	Less than 2.00% of mass 69	0.65 (1.57)
69	Mass 69 relative abundance	41.67
70	Less than 2.00% of mass 69	0.22 (0.52)
127	40.00 - 60.00% of mass 198	45.72
197	Less than 1.00% of mass 198	0.83
199	5.00 - 9.00% of mass 198	6.94
275	10.00 - 30.00% of mass 198	21.55
365	Greater than 1.00% of mass 198	2.13
441	Present, but less than mass 443	8.60
442	Greater than 40.00% of mass 198	54.06
443	17.00 - 23.00% of mass 442	10.83 (20.04)

MEC 2/27/12

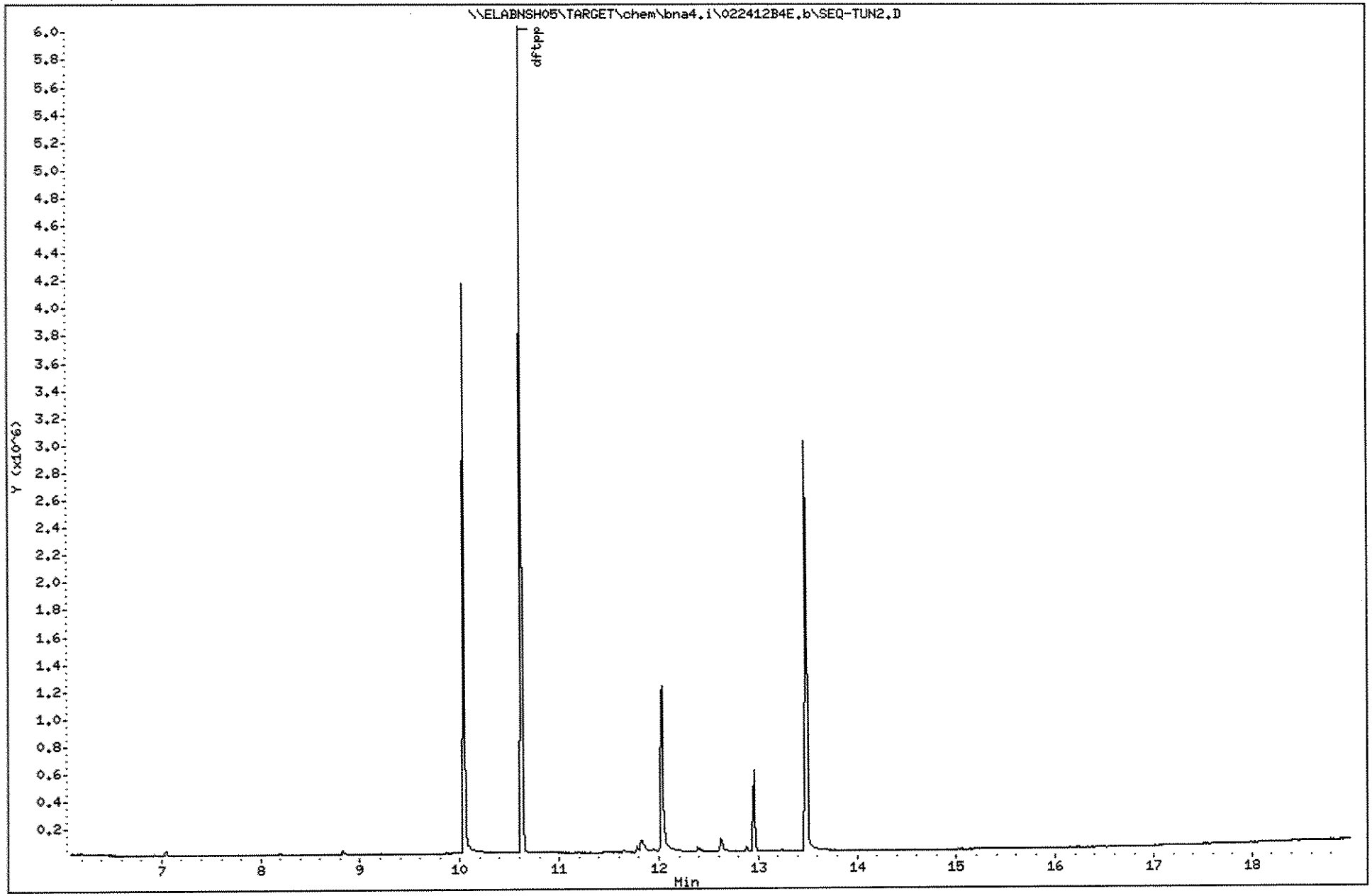
Data File: \\ELABNSH05\TARGET\chem\bna4.i\022412B4E.b\SEQ-TUN2.D
Date : 24-FEB-2012 22:24
Client ID: 50ppm DFTPP
Sample Info: DF0224B1;;;;;;12B0448

Instrument: bna4.i

Operator: MEC

Column phase: DB5-MS

Column diameter: 0.25



226

1202150

Data File: \\ELABNSH05\TARGET\chem\bna4.i\022412B4E.b\SEQ-TUN2.D

Date : 24-FEB-2012 22:24

Client ID: 50ppm DFTPP

Instrument: bna4.i

Sample Info: DF0224B1;;;;;;12B0448

Operator: MEC

Column phase: DB5-MS

Column diameter: 0.25

Data File: SEQ-TUN2.D
Spectrum: Avg. Scans 487-489 (10.62), Background Scan 484
Location of Maximum: 198.00
Number of points: 345

m/z	Y	m/z	Y	m/z	Y	m/z	Y
36.00	509	124.00	4300	213.00	442	304.00	1210
37.10	1052	125.00	4215	213.90	205	304.90	189
38.00	3715	126.20	2356	215.00	2055	306.90	143
39.10	25192	127.00	344512	216.00	4014	308.00	553
40.00	4274	128.00	26616	217.00	46152	309.00	450
41.10	1008	129.00	133376	218.00	5830	310.10	662
42.00	204	130.00	11108	219.00	600	311.00	154
43.00	354	131.00	2615	221.00	31048	312.10	216
44.00	1726	132.00	1225	221.90	6264	313.00	522
45.00	828	133.00	575	223.00	11013	314.00	2157
47.00	121	134.00	3560	224.00	102928	315.00	4111
48.00	190	135.00	9702	225.00	24736	316.00	2302
49.10	2250	136.00	4101	226.00	2640	317.00	422
50.00	82544	137.00	5111	227.00	40464	320.10	211
51.10	332224	137.90	1007	228.00	5803	321.00	1282
52.00	16341	139.00	695	229.00	8506	322.00	768
53.10	804	140.00	1485	230.00	1199	323.00	13668
54.00	113	141.00	16680	231.00	3740	324.00	2746
55.00	1967	142.00	5371	232.00	502	325.00	273
56.00	10103	143.00	4040	233.00	985	325.90	289
57.00	23704	144.00	1048	234.00	2312	327.00	2548
58.00	1125	145.00	967	235.00	2732	328.00	1313
59.00	388	146.00	2840	236.00	1771	329.10	208
60.00	323	147.00	8371	237.00	3009	332.00	1046
61.00	3557	148.00	17752	238.00	489	333.00	1104
62.00	3982	149.00	4163	239.00	1371	334.00	8452
63.00	12330	150.00	839	240.00	1334	335.00	2234
64.00	1854	151.00	1977	241.00	2170	336.10	309
65.10	6354	152.00	1144	242.00	5201	339.00	178
66.00	411	153.00	5123	243.00	5007	340.00	160
67.00	481	154.00	3924	244.00	75208	341.00	1212
68.00	4927	155.00	9511	245.00	10869	342.00	412
69.00	313984	156.00	13880	246.00	13820	346.00	2522
70.00	1637	157.10	3028	247.00	2949	346.90	357
71.10	327	158.00	2895	248.10	603	349.90	114

Data File: \\ELABNSH05\TARGET\chem\bna4.i\022412B4E.b\SEQ-TUN2.D

Date : 24-FEB-2012 22:24

Client ID: 50ppm DFTPP

Instrument: bna4.i

Sample Info: DF0224B1;;;;;;12B0448

Operator: MEC

Column phase: DB5-MS

Column diameter: 0.25

Data File: SEQ-TUN2.D

Spectrum: Avg. Scans 487-489 (10.62), Background Scan 484

Location of Maximum: 198.00

Number of points: 345

m/z	Y	m/z	Y	m/z	Y	m/z	Y
71.80	112	159.00	2358	249.00	2912	351.10	236
73.00	2110	160.00	5425	250.00	624	352.00	3715
74.00	27864	161.00	7843	251.00	726	353.00	2691
75.00	46280	162.00	2318	252.00	901	354.00	3746
76.00	14393	163.00	669	253.00	2104	355.00	762
77.00	329088	164.00	1064	254.10	4687	359.10	311
78.10	21920	165.00	6062	255.00	388992	361.10	126
79.00	19840	166.00	4424	256.00	57400	363.10	161
80.00	15688	167.00	33184	257.00	4270	364.10	366
81.00	23328	168.00	14632	258.00	19912	365.00	16019
82.00	5771	169.00	2693	259.00	3496	366.00	2289
83.00	5099	170.00	1368	260.00	705	366.90	177
83.90	613	171.00	1358	261.00	603	370.00	336
85.00	3526	172.00	3327	262.00	298	371.10	940
86.00	6238	173.00	3651	263.10	212	372.00	6058
87.00	2875	174.00	7199	263.90	732	373.00	1480
88.00	1077	175.00	13465	265.00	8316	374.10	158
89.00	547	176.00	3728	266.00	1413	377.00	121
90.20	135	177.00	5694	267.00	178	383.00	1822
91.00	4951	178.00	2287	267.90	353	383.90	403
92.00	5559	179.00	26144	268.90	123	385.10	124
93.00	35008	180.00	17400	270.00	567	390.00	891
94.00	2797	181.00	8277	271.00	771	390.90	548
95.00	781	182.00	1306	272.00	1040	392.10	430
96.00	1677	183.00	707	273.00	11426	401.10	385
97.00	956	184.00	1941	274.00	28824	402.00	2339
98.00	25992	185.00	11850	275.00	162368	403.00	3430
99.00	19464	186.00	96568	276.00	21888	404.00	1327
100.00	1845	187.00	27256	277.00	12490	405.10	222
101.00	12913	188.00	2590	278.00	2314	415.00	184
102.00	785	189.00	5729	279.10	600	420.20	120
103.00	4198	190.00	1238	281.00	233	421.00	2870
104.00	7386	191.00	2681	282.10	314	422.00	3059
105.00	7060	192.00	8117	283.00	1466	423.00	20264
106.00	2875	193.00	8640	284.00	867	424.10	4055

Data File: \\ELABNSH05\TARGET\chem\bna4.i\022412B4E.b\SEQ-TUN2.D

Date : 24-FEB-2012 22:24

Client ID: 50ppm DFTPP | Instrument: bna4.i

Sample Info: DF0224B1;;;;;;12B0448

Operator: MEC

Column phase: DB5-MS | Column diameter: 0.25

Data File: SEQ-TUN2.D

Spectrum: Avg. Scans 487-489 (10.62), Background Scan 484

Location of Maximum: 198.00

Number of points: 345

m/z	Y	m/z	Y	m/z	Y	m/z	Y
107.00	98224	194.10	1833	285.00	2217	425.00	490
108.00	14991	195.10	1347	286.10	481	434.00	108
109.00	2561	196.00	21952	288.00	146	435.00	133
110.00	189120	197.10	6262	289.00	428	435.50	113
111.00	27160	198.00	763536	289.90	478	436.30	202
112.00	3469	199.00	52264	290.90	325	436.90	277
113.00	1073	200.00	4057	292.00	725	438.20	386
114.00	256	201.50	3415	293.00	2987	438.80	608
115.00	677	203.00	4973	294.00	825	440.10	1373
116.00	4991	204.00	24856	295.00	1206	441.00	64800
117.00	73504	205.00	42240	296.00	41800	442.00	407360
118.00	5293	206.00	181696	297.00	6347	443.10	81616
119.00	821	207.00	24264	298.00	387	444.10	7914
120.00	1303	208.00	5917	299.00	104	445.00	512
121.00	520	209.00	2054	301.00	552		
122.00	5925	210.00	2439	302.10	666		
123.00	9162	211.00	6621	303.10	4673		

Data File: \\ELABNSH05\TARGET\chem\bna4.i\022412B4E.b\SEQ-CCV2.D
Report Date: 25-Feb-2012 10:58

Laboratory Name

Data file : \\ELABNSH05\TARGET\chem\bna4.i\022412B4E.b\SEQ-CCV2.D
Lab Smp Id: SEQ-CCV1 Client Smp ID: SEQ-CCV1
Inj Date : 24-FEB-2012 22:46 MS Autotune Date: 15-FEB-2012 09:23
Operator : MEC Inst ID: bna4.i
Smp Info : SEQ-CCV1;;;;;;
Misc Info : ;2;CCV;;;;pahlow.sub;
Comment :
Method : \\ELABNSH05\TARGET\chem\bna4.i\022412B4E.b\IXBN4LOW.m
Meth Date : 25-Feb-2012 10:58 mcobb Quant Type: ISTD
Cal Date : 20-FEB-2012 16:29 Cal File: SEQ-CAL1.D
Als bottle: 2 Continuing Calibration Sample
Dil Factor: 1.00000
Integrator: HP RTE Compound Sublist: pahlow.sub
Target Version: 4.04
Processing Host: TARGET09_VM

Rev 3-1-12

Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	AMOUNTS CAL-AMT (ng/ul)	AMOUNTS ON-COL (ng/ul)
51 Naphthalene	128	6.274	6.274	(0.615)	477385	5.00000	4.703
55 2-Methylnaphthalene	142	7.092	7.092	(0.696)	303642	5.00000	4.591
56 1-Methylnaphthalene	142	7.232	7.232	(0.709)	287966	5.00000	4.495
$ 74 2-Fluorobiphenyl	172	7.557	7.557	(0.741)	337464	5.00000	4.180
77 Acenaphthylene	152	8.208	8.208	(0.805)	479354	5.00000	5.036
80 Acenaphthene	153	8.431	8.431	(0.827)	319202	5.00000	4.988
88 Fluorene	166	9.045	9.045	(0.887)	355240	5.00000	5.110
* 102 Phenanthrene-d10	188	10.197	10.197	(1.000)	100420	1.00000	
111 Phenanthrene	178	10.225	10.225	(1.003)	497793	5.00000	5.020
112 Anthracene	178	10.281	10.281	(1.008)	488262	5.00000	5.107
116 Fluoranthene	202	11.833	11.833	(1.160)	555568	5.00000	5.452
134 Pyrene	202	12.177	12.177	(1.194)	574789	5.00000	5.476
* 154 Perylene-d12	264	17.123	17.123	(1.000)	48704	1.00000	
$ 135 Terphenyl-d14	244	12.428	12.428	(1.219)	330636	5.00000	4.764
138 Benzo(a)anthracene	228	14.297	14.297	(1.402)	405930	5.00000	6.127
139 Chrysene	228	14.381	14.381	(1.410)	387654	5.00000	5.853
156 Benzo(b)fluoranthene	252	16.407	16.407	(0.958)	303512	5.00000	4.970
157 Benzo(k)fluoranthene	252	16.454	16.454	(0.961)	348277	5.00000	5.788
158 Benzo(a)pyrene	252	17.021	17.021	(0.994)	236486	5.00000	5.166
159 Indeno(1,2,3-cd)pyrene	276	19.038	19.038	(1.112)	159661	5.00000	4.389
160 Dibenz(a,h)anthracene	278	19.066	19.066	(1.113)	120627	5.00000	4.165
161 Benzo(g,h,i)perylene	276	19.531	19.531	(1.141)	131393	5.00000	4.010

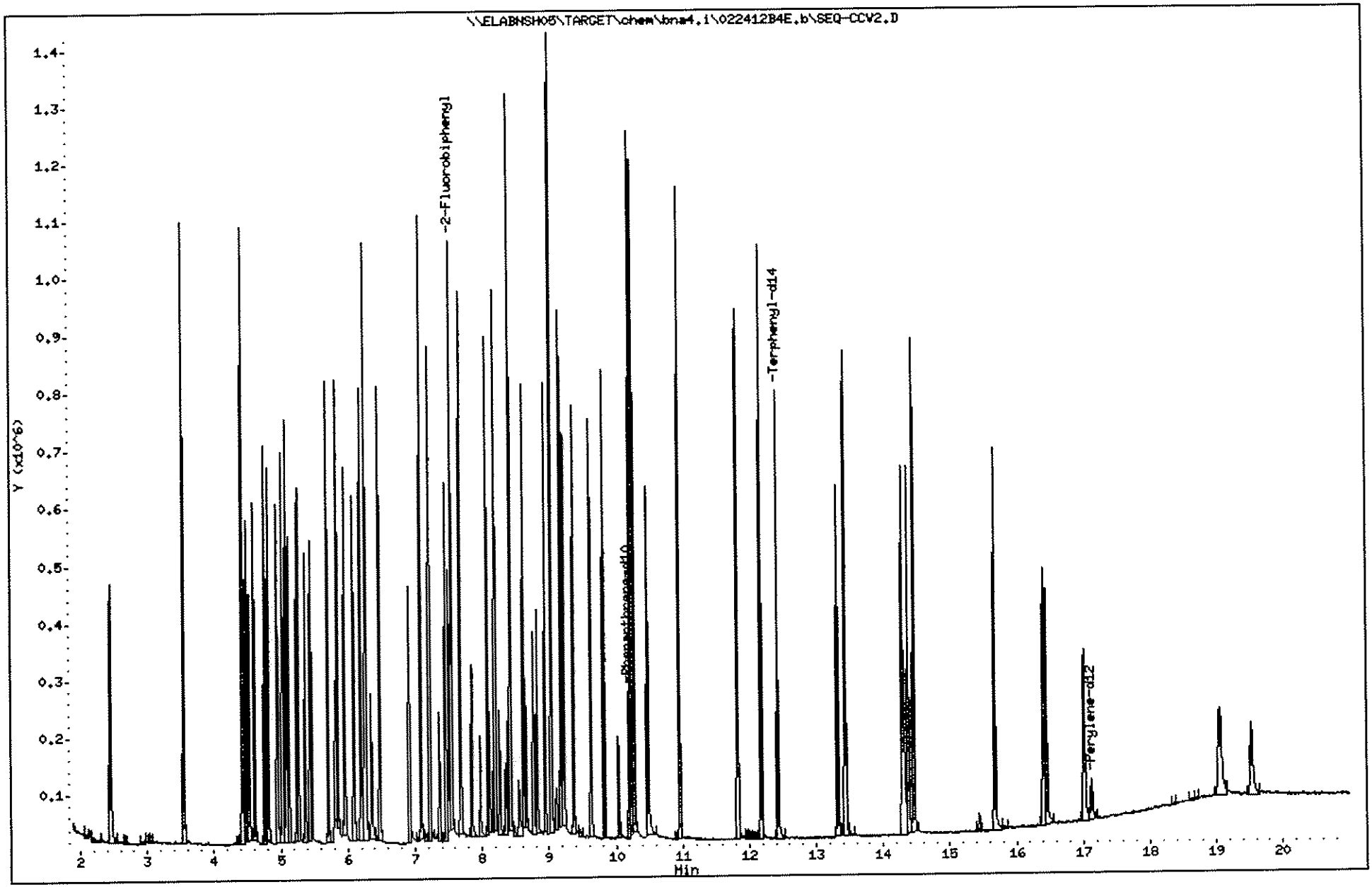
MEC
2/29/12

Data File: \\ELABNSH05\TARGET\chem\bna4.i\022412B4E.b\SEQ-CCV2.D
Date : 24-FEB-2012 22:46
Client ID: SEQ-CCV1
Sample Info: SEQ-CCV1;;;;;;

Column phase: fused silica

Instrument: bna4.i

Operator: MEC
Column diameter: 0.25



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1202150

Data File: \\ELABNSH05\TARGET\chem\bna4.i\022412B4E.b\0215004D.D
Report Date: 29-Feb-2012 12:11

Laboratory Name

Data file : \\ELABNSH05\TARGET\chem\bna4.i\022412B4E.b\0215004D.D
Lab Smp Id: 1202150-04 Client Smp ID: FLC-4-PO1-0204-0221
Inj Date : 24-FEB-2012 23:15 MS Autotune Date: 15-FEB-2012 09:23
Operator : MEC Inst ID: bna4.i
Smp Info : 1202150-04;10;15;1000;1;ug/Kg;22-FEB-2012
Misc Info : ;0;;;;2B22014;pahlow.sub;
Comment :
Method : \\ELABNSH05\TARGET\chem\bna4.i\022412B4E.b\IXBN4LOW.m
Meth Date : 29-Feb-2012 12:10 mcobb Quant Type: ISTD
Cal Date : 20-FEB-2012 16:29 Cal File: SEQ-CAL1.D
Als bottle: 27
Dil Factor: 10.00000
Integrator: HP RTE Compound Sublist: pahlow.sub
Target Version: 4.04
Processing Host: TARGET09_VM

Concentration Formula: Amt * DF * Uf * Vt*Vi/(Amt * Vi * (Solids/100))

Name	Value	Description
DF	10.000	Dilution Factor
Uf	1.000	ng unit correction factor
Vt	1000.000	Volume of final extract (uL)(1000 low, 2
Amt	15.000	Mass of initial extraction
Vi	1.000	Volume injected (uL)
Solids	100.000	Percent Solids

3-1-12

Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS ON-COLUMN (ng/ul)	FINAL (ug/Kg)
51 Naphthalene	128	6.274	6.274	(0.615)	2500	0.03257	21.71(a)
$ 74 2-Fluorobiphenyl	172	7.557	7.557	(0.741)	239579	3.92469	2616
* 102 Phenanthrene-d10	188	10.197	10.197	(1.000)	75931	1.00000	
116 Fluoranthene	202	11.824	11.833	(1.160)	9914	0.12868	85.79
134 Pyrene	202	12.177	12.177	(1.194)	51254	0.64582	430.5
* 154 Perylene-d12	264	17.132	17.123	(1.000)	43064	1.00000	
$ 135 Terphenyl-d14	244	12.428	12.428	(1.219)	290794	5.54148	3694
139 Chrysene	228	14.371	14.381	(1.409)	13328	0.26615	177.4(QM)
159 Indeno(1,2,3-cd)pyrene	276	19.038	19.038	(1.111)	1473	0.04580	30.53(a)
161 Benzo(g,h,i)perylene	276	19.531	19.531	(1.140)	4005	0.13823	92.15

13328/75931/0.66951 x 1.0 = 0.266

MEC
2/29/12

Data File: \\ELABNSH05\TARGET\chem\bna4.i\022412B4E.b\0215004D.D
Report Date: 29-Feb-2012 12:11

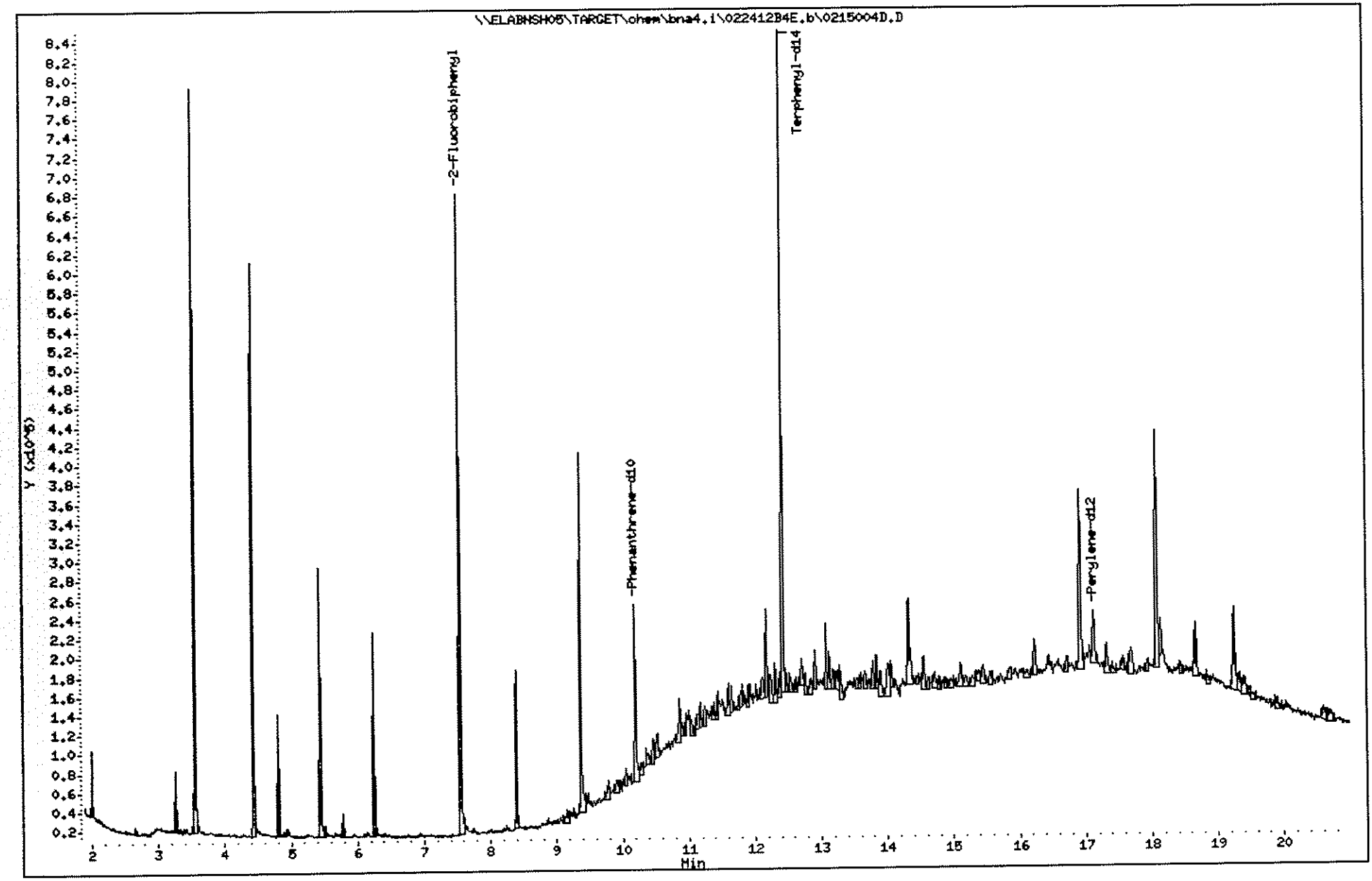
QC Flag Legend

a - Target compound detected but, quantitated amount
    Below Limit Of Quantitation(BLOQ).
Q - Qualifier signal failed the ratio test.
M - Compound response manually integrated.

Data File: \\ELABNSH05\TARGET\chem\bna4.i\022412B4E.b\0215004D.D
Date : 24-FEB-2012 23:15
Client ID: FLC-4-P01-0204-0221
Sample Info: 1202150-04;10;15;1000;1;ug/Kg;22-FEB-2012
Volume Injected (uL): 1.0
Column phase: fused silica

Instrument: bna4.i

Operator: MEC
Column diameter: 0.25



Data File: \\ELABNSH05\TARGET\chem\bna4.i\022412B4E.b\0215004D.D

Date : 24-FEB-2012 23:15

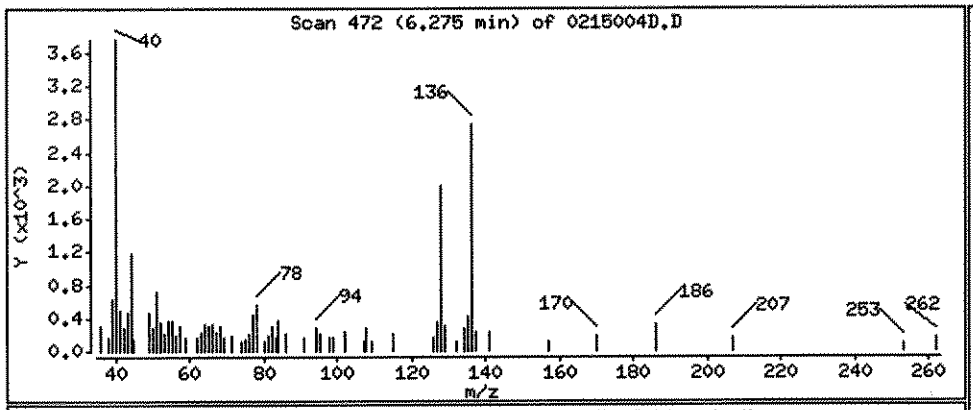
Client ID: FLC-4-P01-0204-0221 Instrument: bna4.i

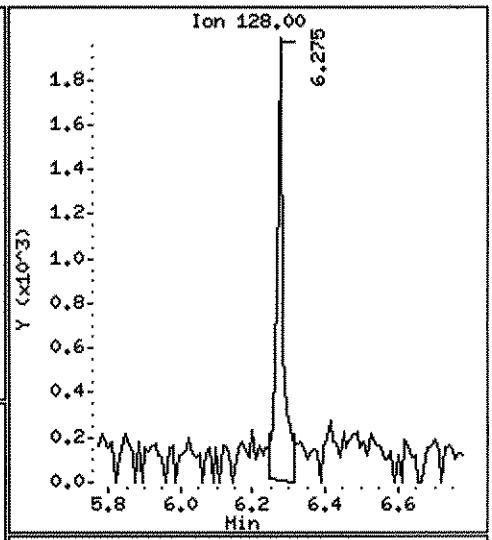
Sample Info: 1202150-04;10;15;1000;1;ug/Kg;22-FEB-2012

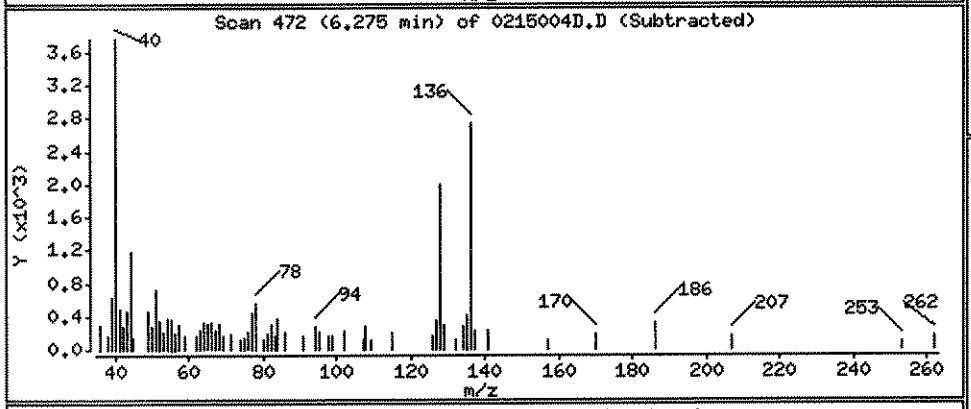
Volume Injected (uL): 1.0 Operator: MEC

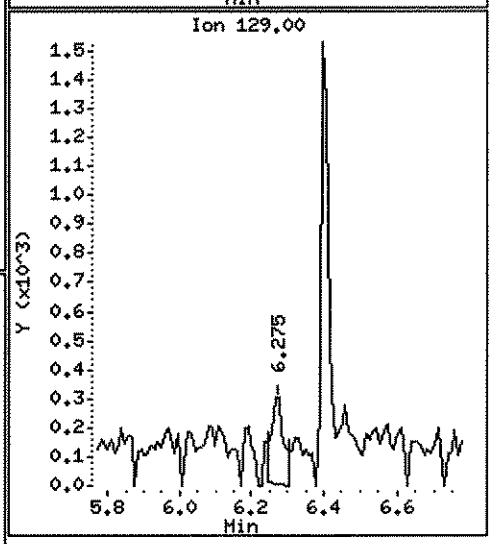
Column phase: fused silica Column diameter: 0.25

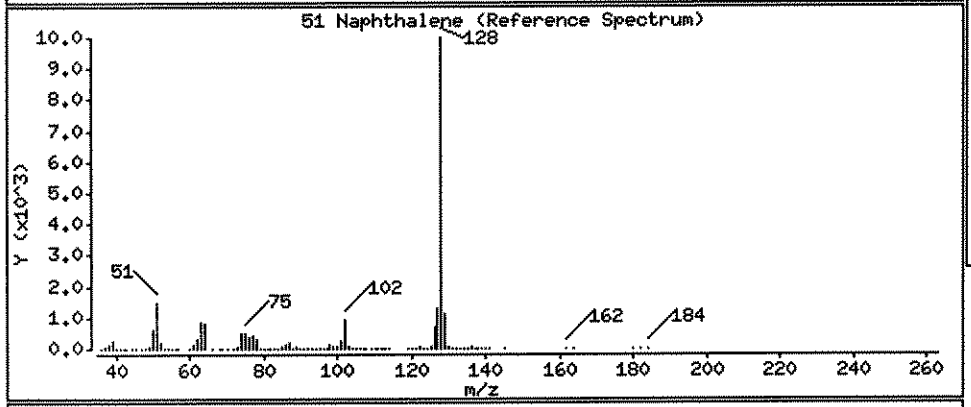
51 Naphthalene Concentration: 21.71 ug/Kg

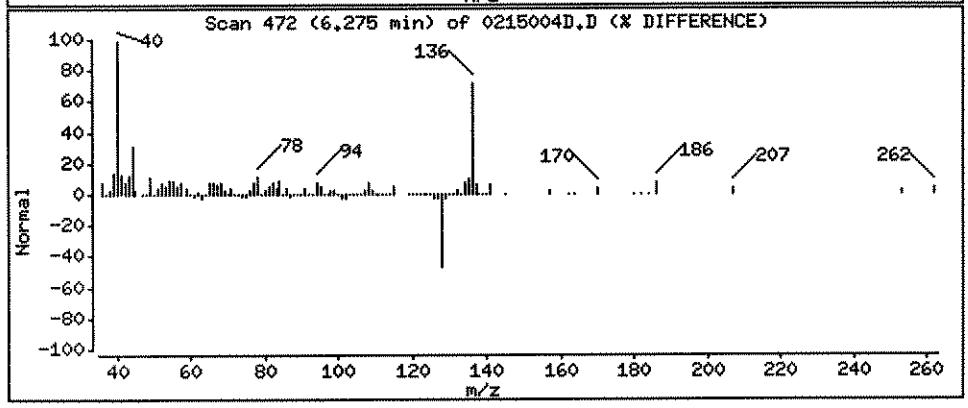












Data File: \\ELABNSH05\TARGET\chem\bna4.i\022412B4E.b\0215004D.D

Date : 24-FEB-2012 23:15

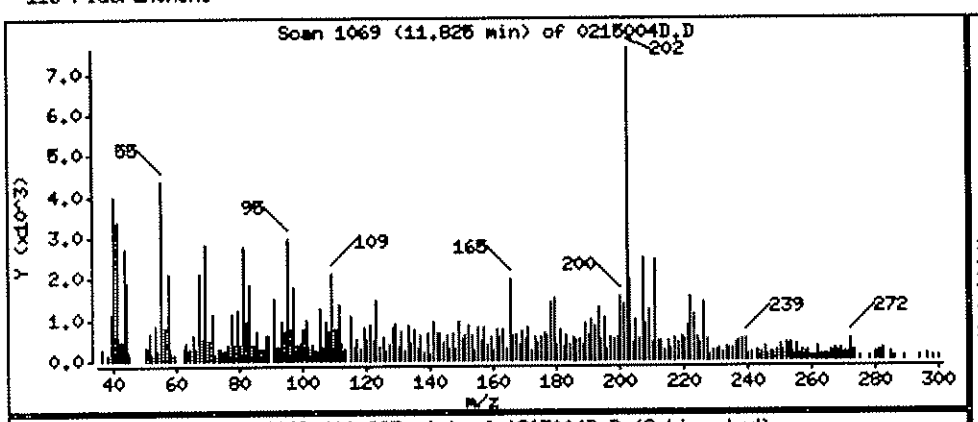
Client ID: FLC-4-P01-0204-0221 Instrument: bna4.i

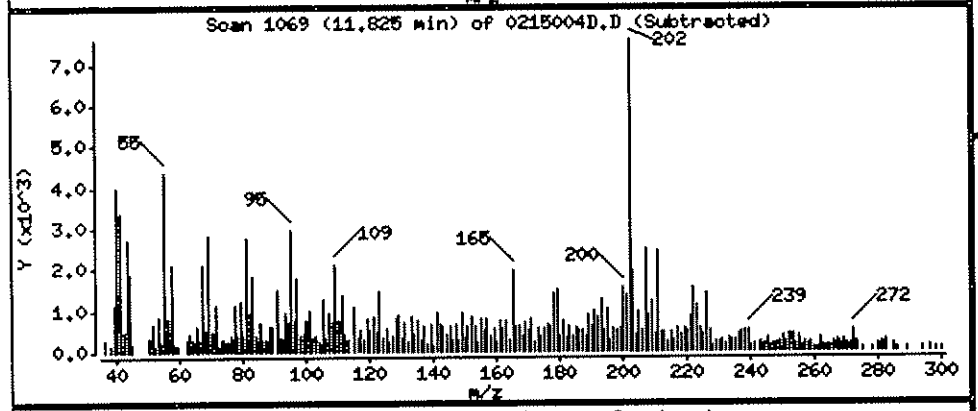
Sample Info: 1202150-04;10;15;1000;1;ug/Kg;22-FEB-2012

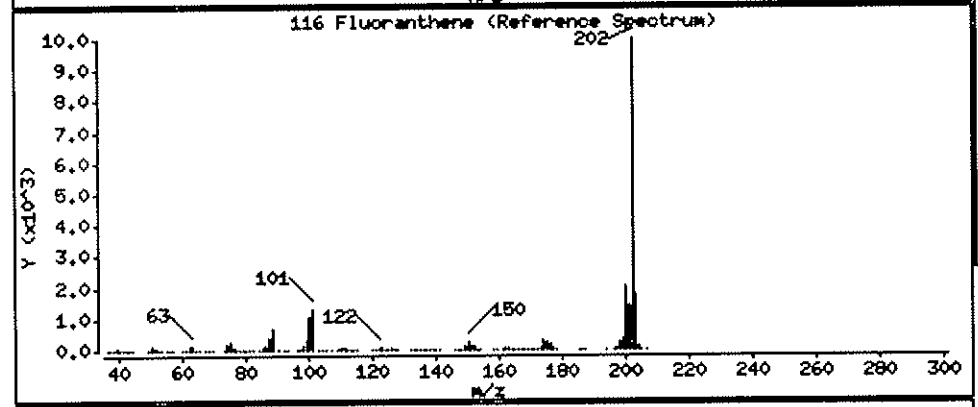
Volume Injected (uL): 1.0 Operator: MEC

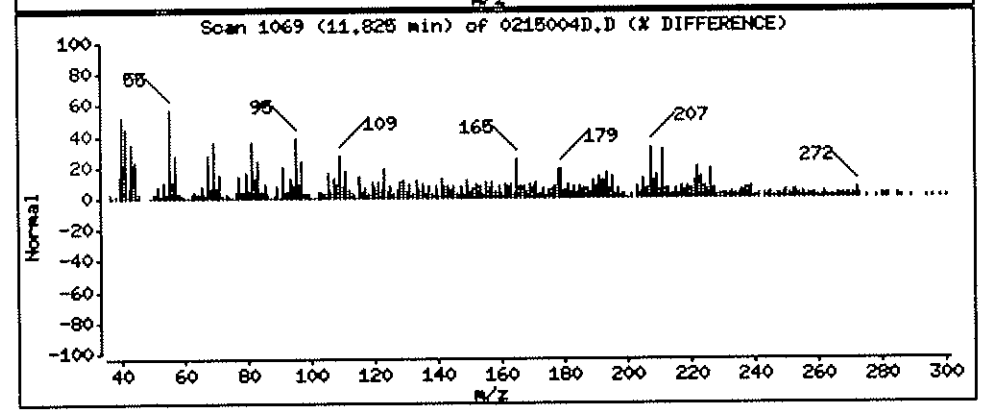
Column phase: fused silica Column diameter: 0.25

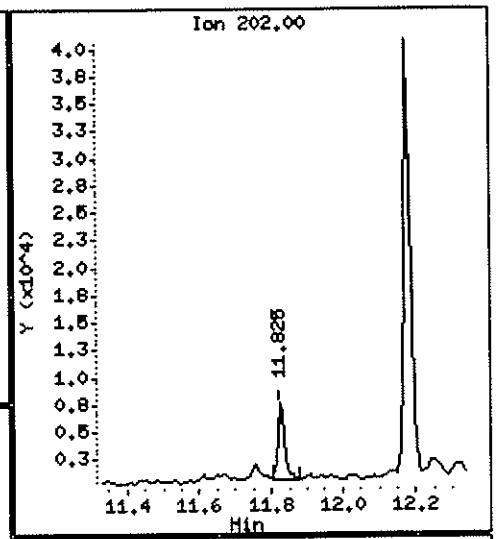
116 Fluoranthene Concentration: 85.79 ug/Kg

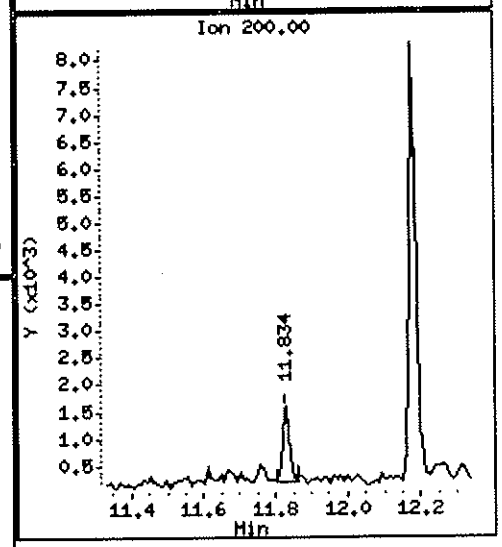












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Date : 24-FEB-2012 23:15

Client ID: FLC-4-P01-0204-0221

Instrument: bna4.i

Sample Info: 1202150-04;10;15;1000;1;ug/Kg;22-FEB-2012

Volume Injected (uL): 1.0

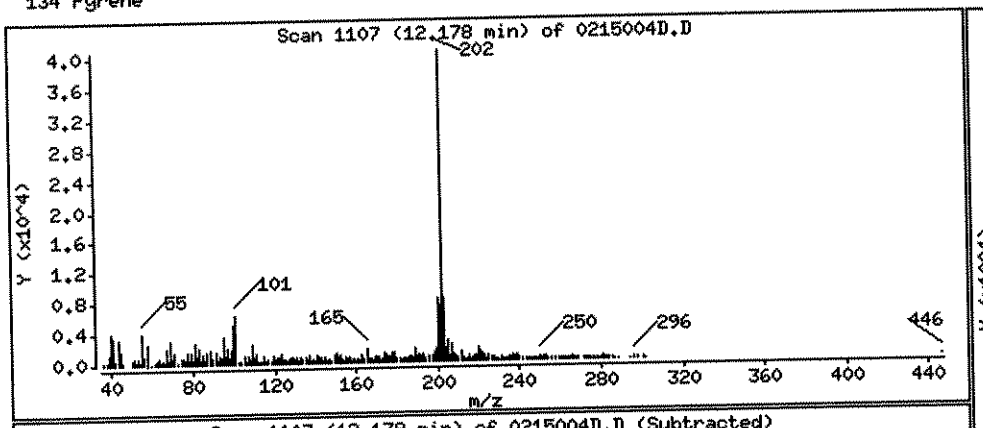
Operator: MEC

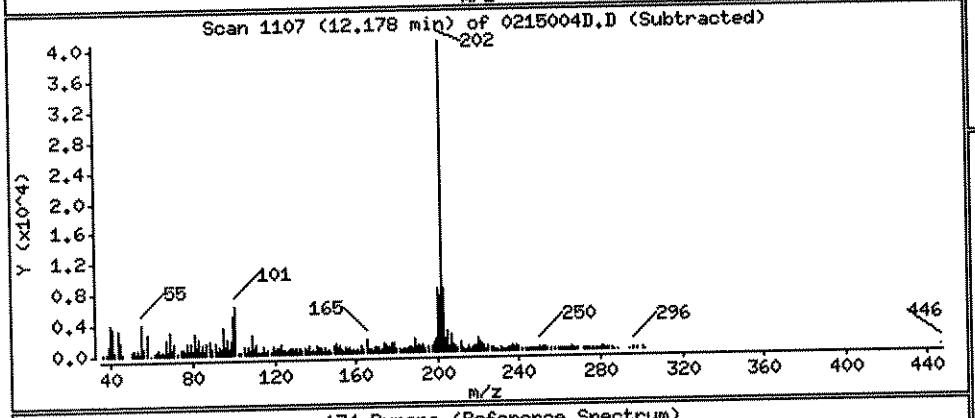
Column phase: fused silica

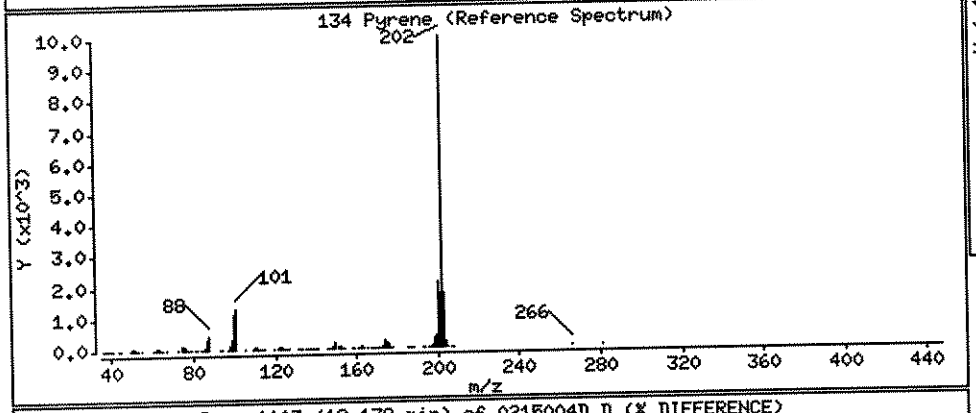
Column diameter: 0.25

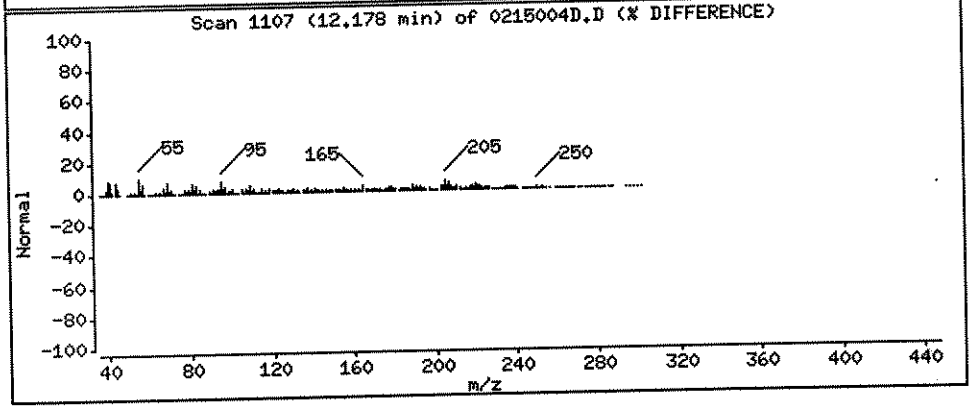
Concentration: 430.5 ug/Kg

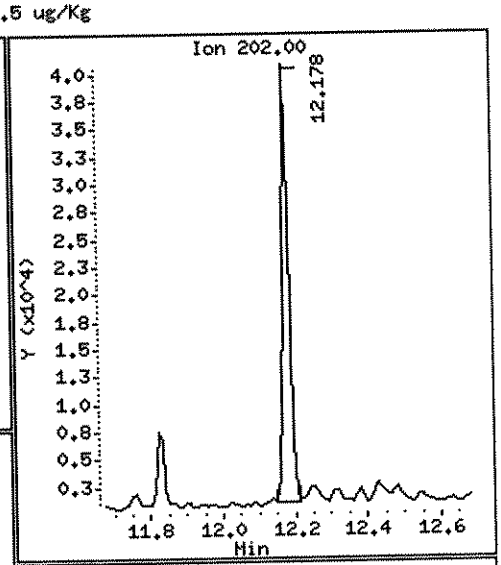
134 Pyrene

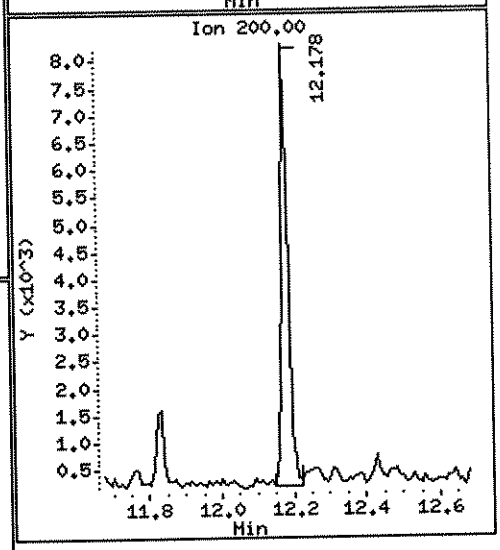












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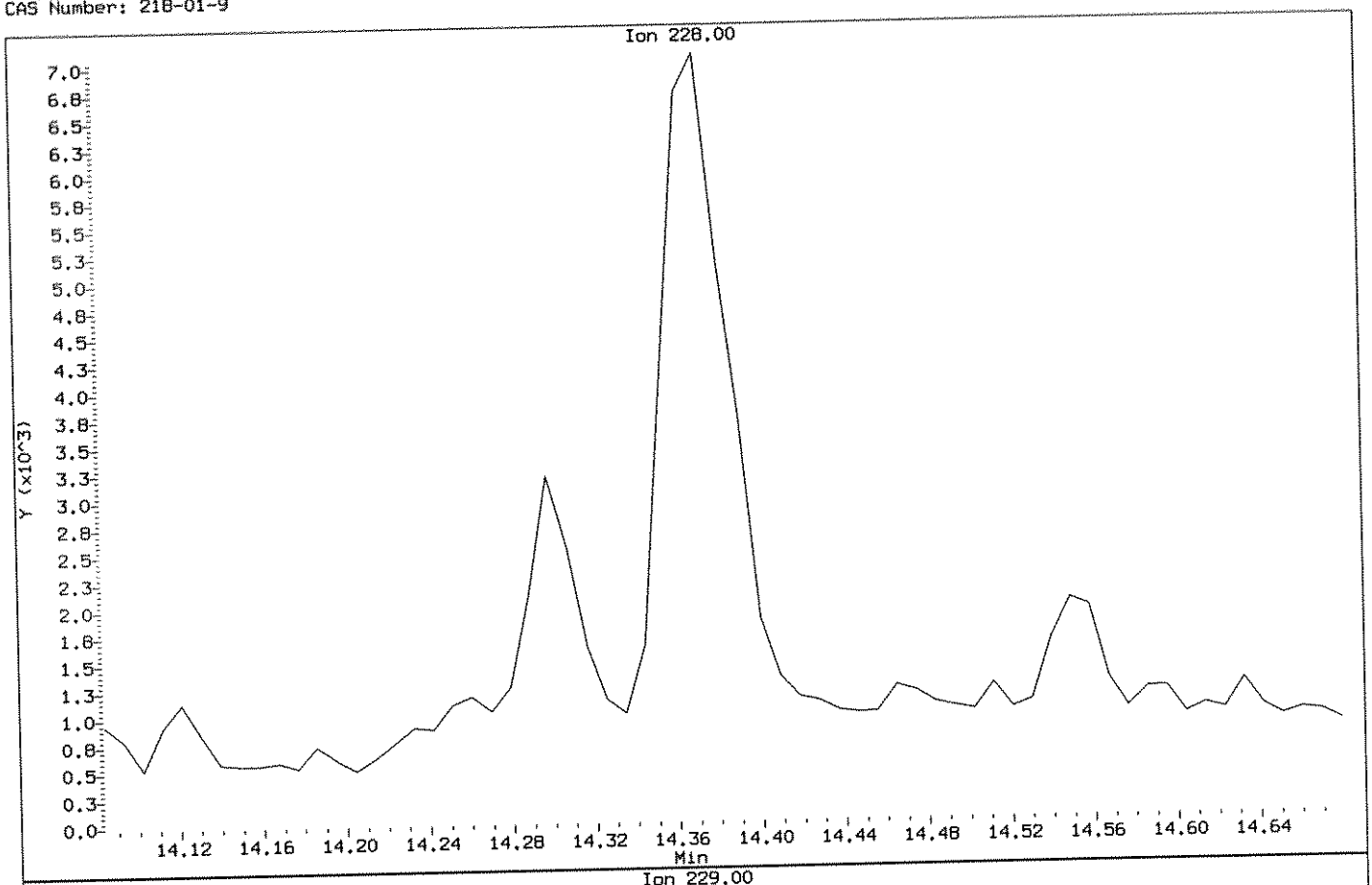
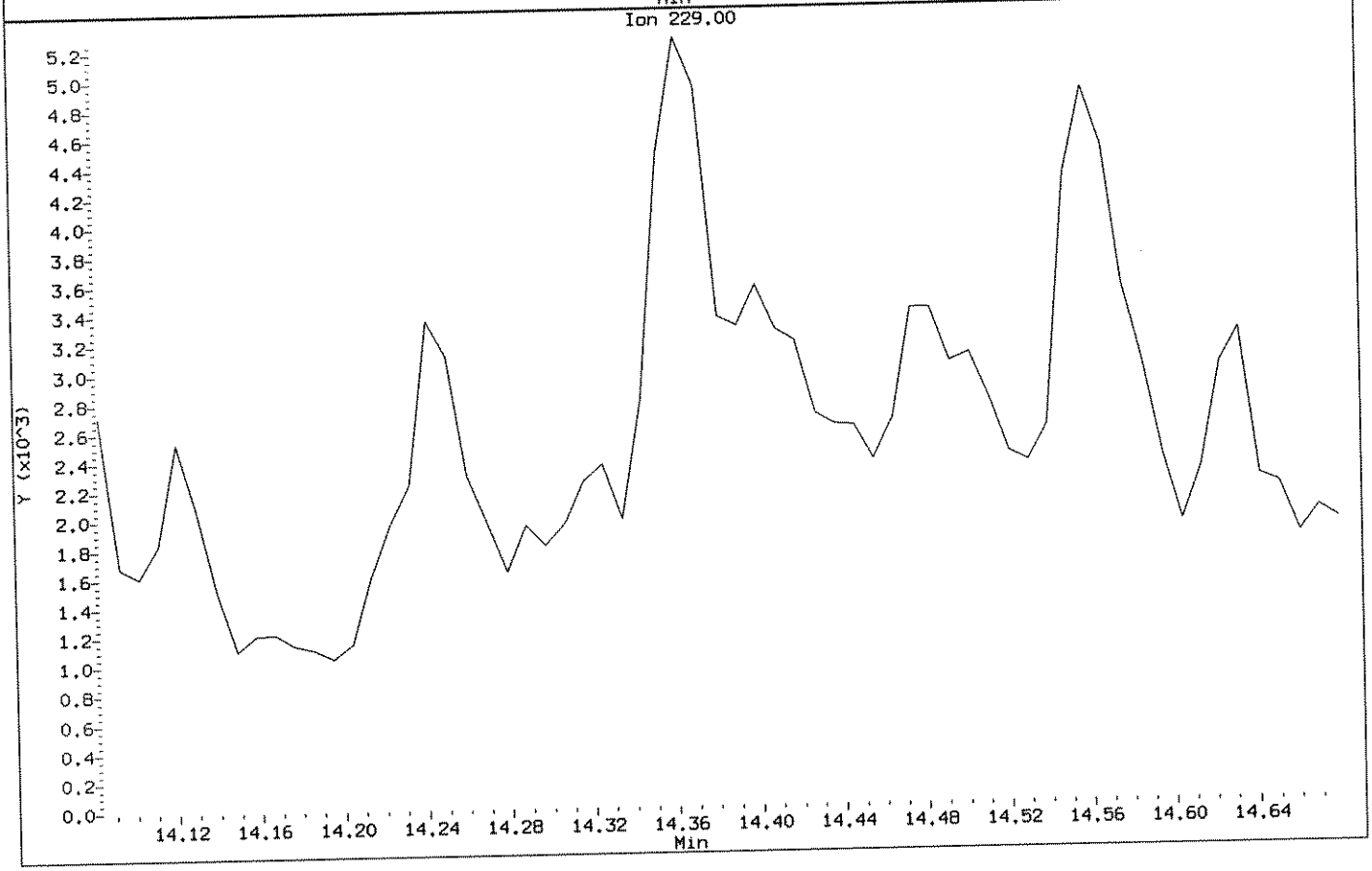
Injection Date: 24-FEB-2012 23:15
Instrument: bna4.i
Client Sample ID: FLC-4-P01-0204-0221

Compound: Chrysene
CAS Number: 218-01-9





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Date : 24-FEB-2012 23:15

Client ID: FLC-4-P01-0204-0221

Instrument: bna4.i

Sample Info: 1202150-04;10;15;1000;1;ug/Kg;22-FEB-2012

Volume Injected (uL): 1.0

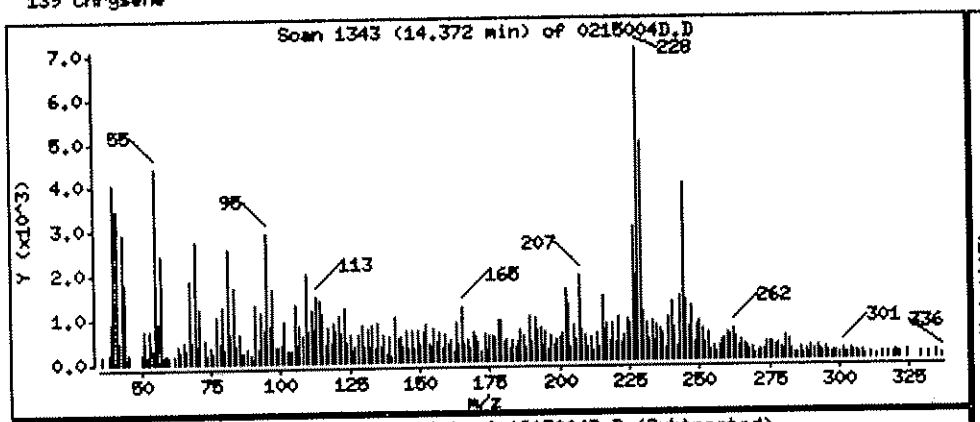
Operator: MEC

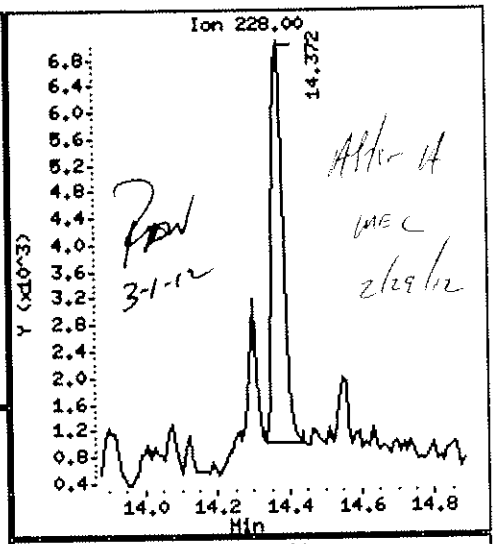
Column phase: fused silica

Column diameter: 0.25

Concentration: 177.4 ug/Kg

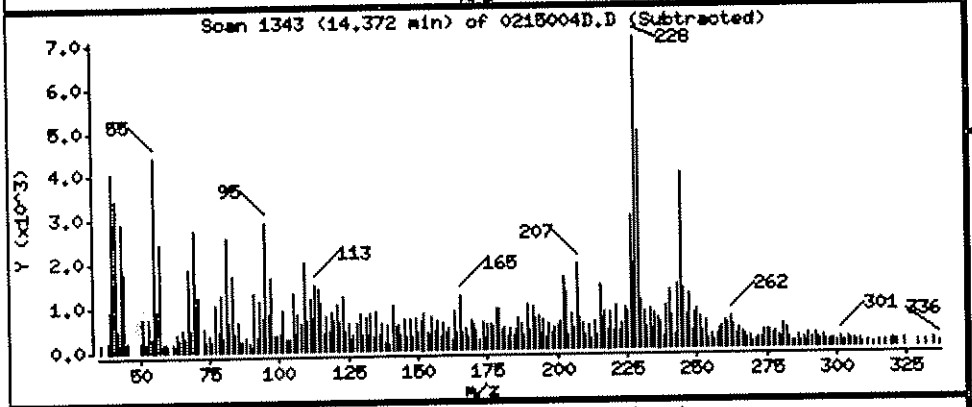
139 Chrysene

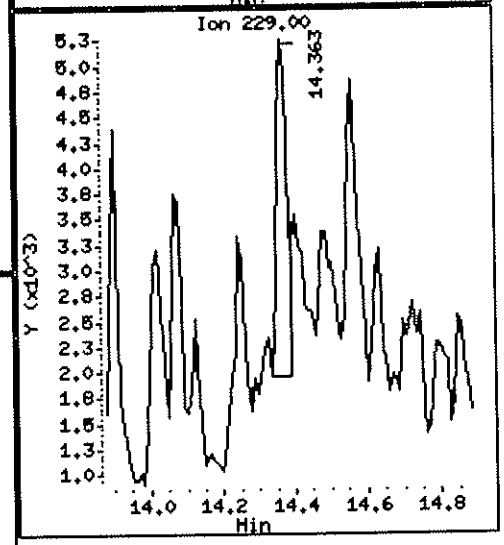


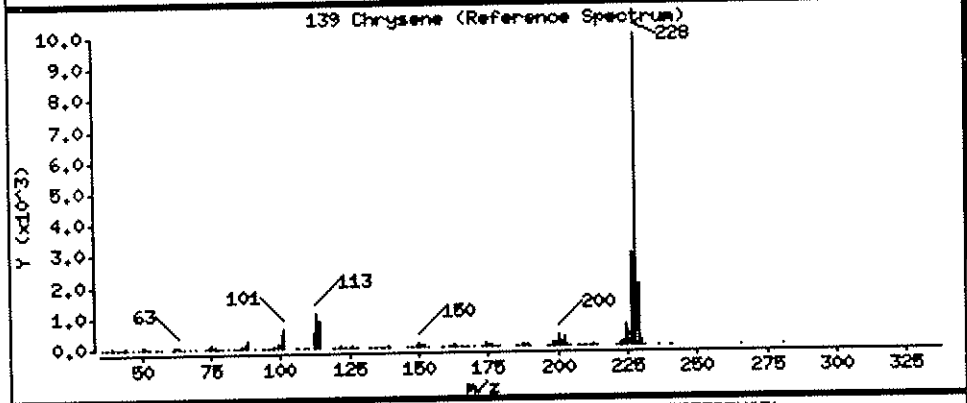


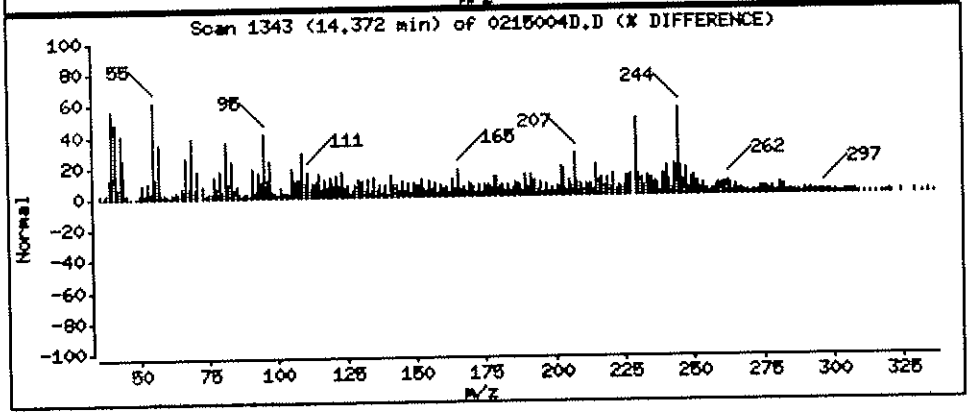
After 14 MEC 2/29/12

RPW 3-1-12









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Date : 24-FEB-2012 23:15

Client ID: FLC-4-P01-0204-0221

Instrument: bna4.i

Sample Info: 1202150-04;10;15;1000;1;ug/Kg;22-FEB-2012

Volume Injected (uL): 1.0

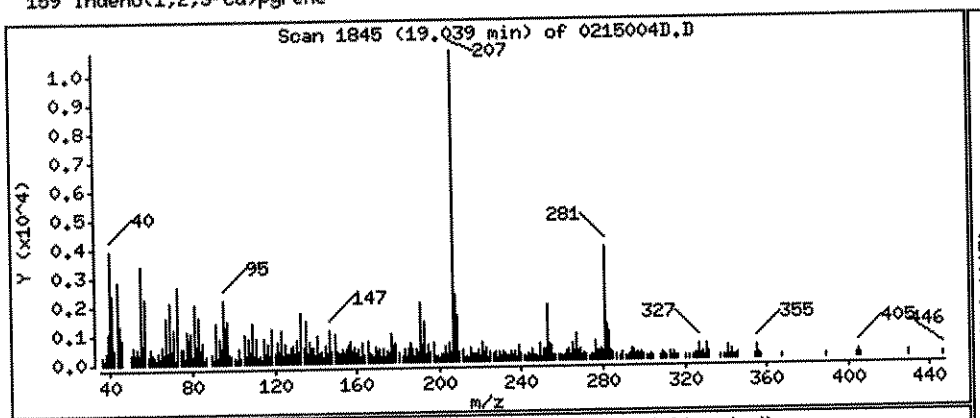
Operator: MEC

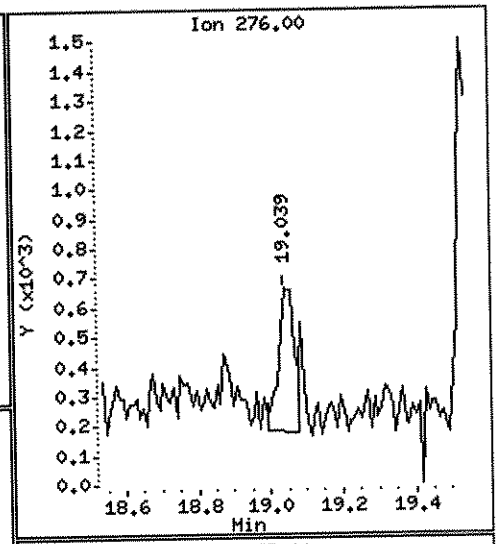
Column phase: fused silica

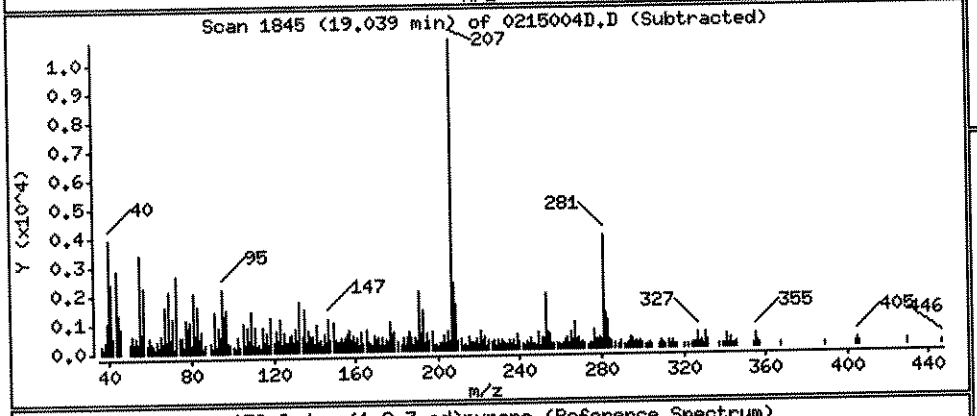
Column diameter: 0.25

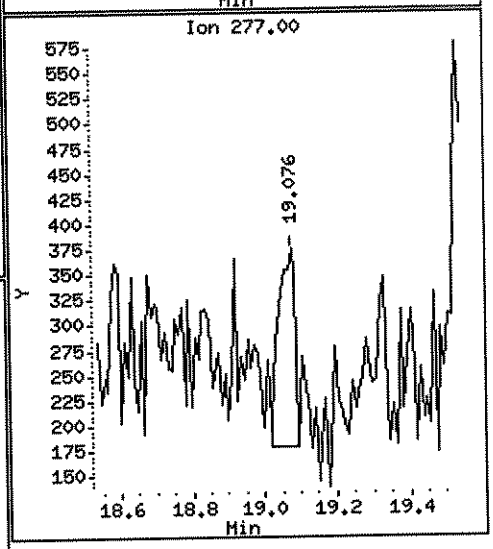
159 Indeno(1,2,3-cd)pyrene

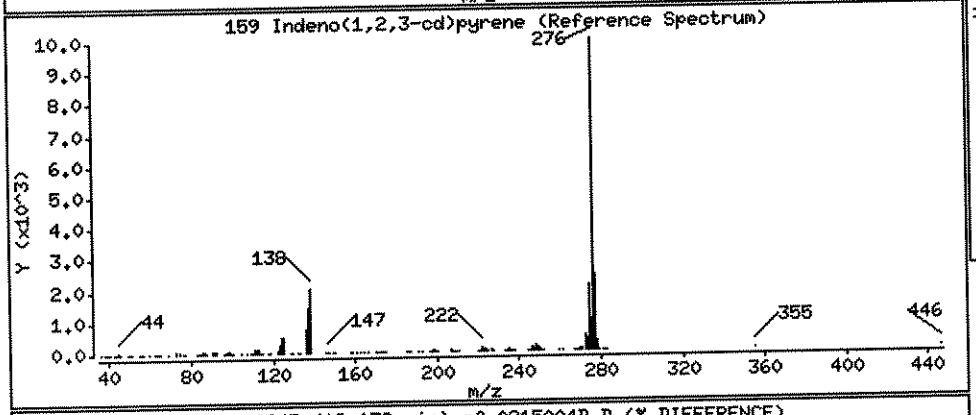
Concentration: 30.53 ug/Kg

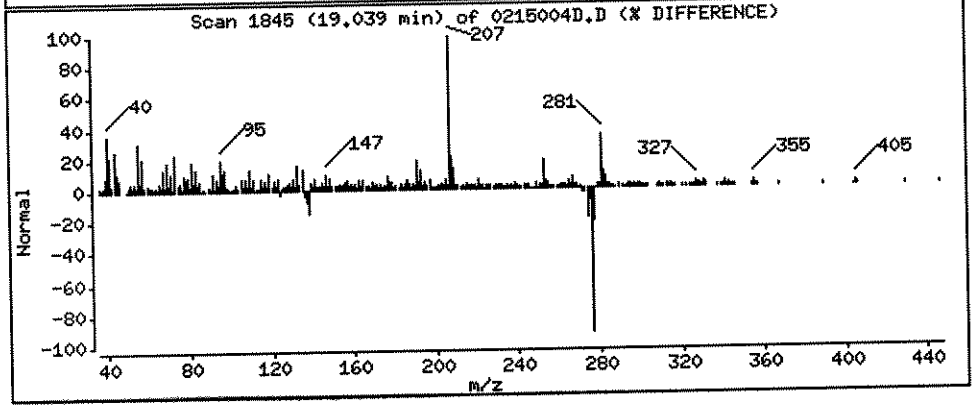












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Date : 24-FEB-2012 23:15

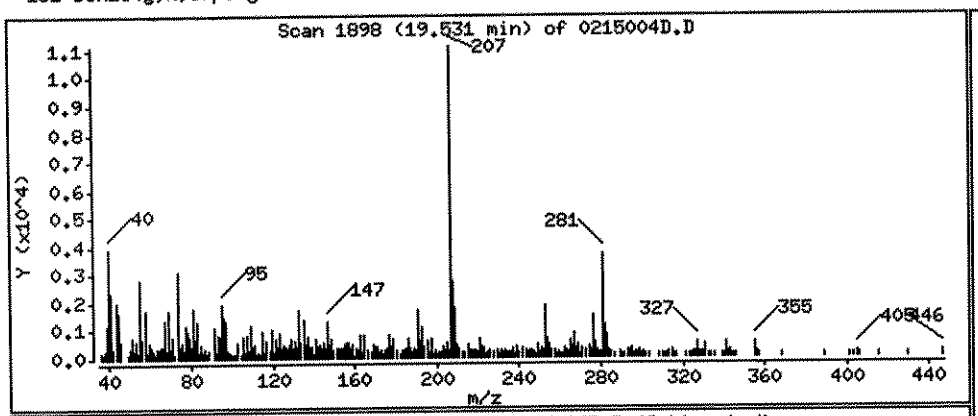
Client ID: FLC-4-P01-0204-0221 Instrument: bna4.i

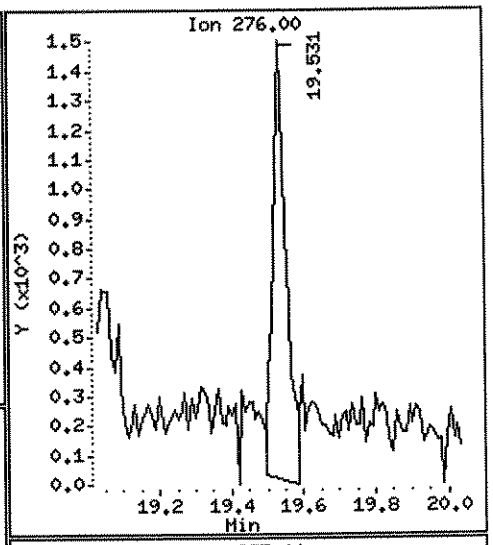
Sample Info: 1202150-04;10;15;1000;1;ug/Kg;22-FEB-2012

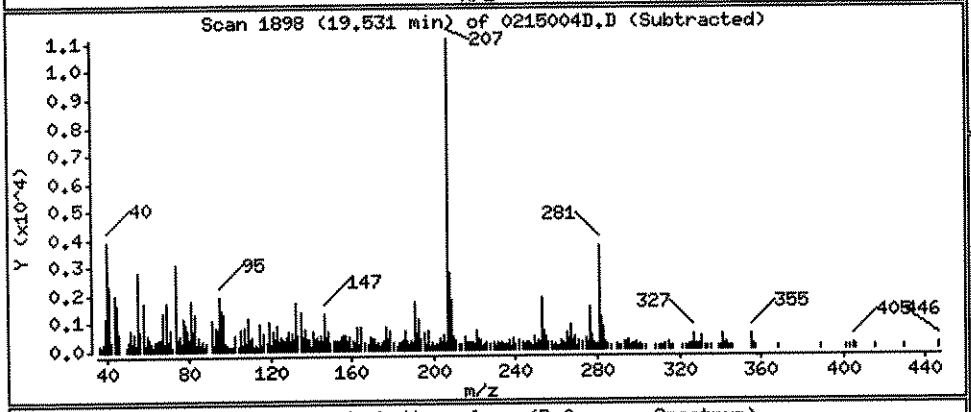
Volume Injected (uL): 1.0 Operator: MEC

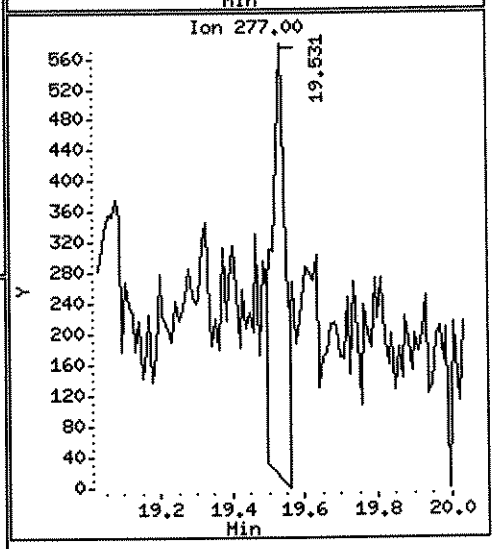
Column phase: fused silica Column diameter: 0.25

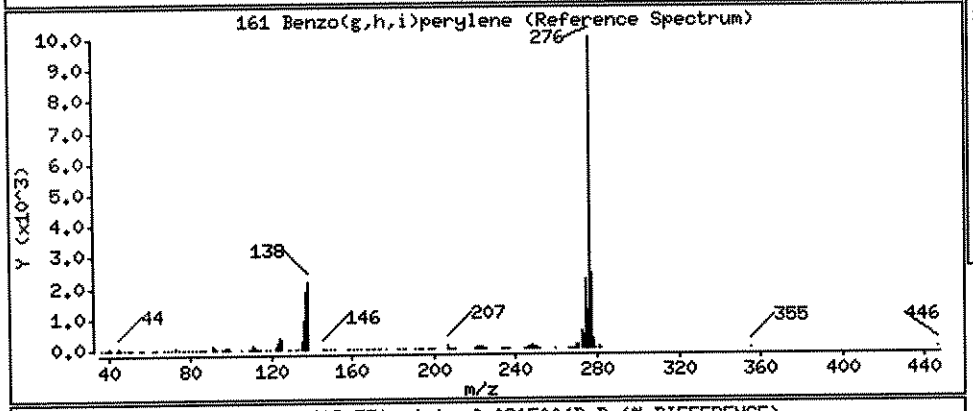
161 Benzo(g,h,i)perylene Concentration: 92.15 ug/Kg

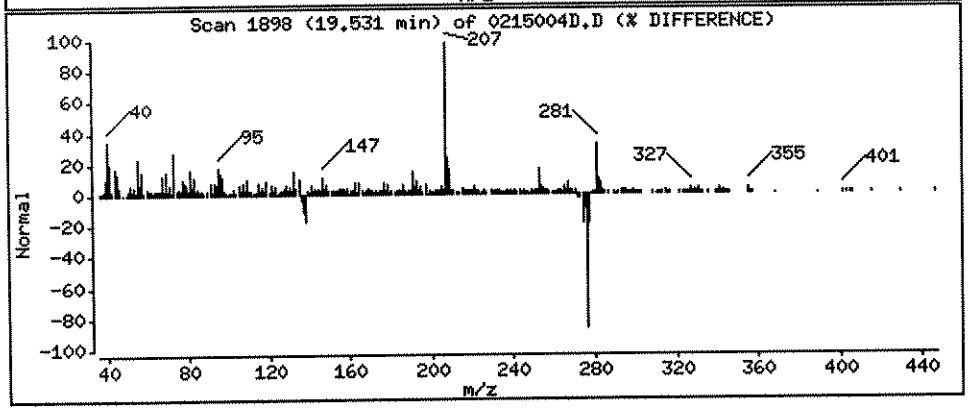












Data File: \\ELABNSH05\TARGET\chem\bna4.i\022412B4E.b\0215006.D
Report Date: 29-Feb-2012 12:12

Laboratory Name

Data file : \\ELABNSH05\TARGET\chem\bna4.i\022412B4E.b\0215006.D
Lab Smp Id: 1202150-06 Client Smp ID: FLC-4-PO2-0624-0221
Inj Date : 24-FEB-2012 23:43 MS Autotune Date: 15-FEB-2012 09:23
Operator : MEC Inst ID: bna4.i
Smp Info : 1202150-06;1;15;1000;1;ug/Kg;22-FEB-2012
Misc Info : ;0;;;;2B22014;pahlow.sub;
Comment :
Method : \\ELABNSH05\TARGET\chem\bna4.i\022412B4E.b\IXBN4LOW.m
Meth Date : 29-Feb-2012 12:10 mcobb Quant Type: ISTD
Cal Date : 20-FEB-2012 16:29 Cal File: SEQ-CAL1.D
Als bottle: 28
Dil Factor: 1.00000
Integrator: HP RTE Compound Sublist: pahlow.sub
Target Version: 4.04
Processing Host: TARGET09_VM

Concentration Formula: Amt * DF * Uf * Vt*Vi/(Amt * Vi * (Solids/100))

Name	Value	Description
DF	1.000	Dilution Factor
Uf	1.000	ng unit correction factor
Vt	1000.000	Volume of final extract (uL)(1000 low, 2
Amt	15.000	Mass of initial extraction
Vi	1.000	Volume injected (uL)
Solids	100.000	Percent Solids

3-1-12

Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS ON-COLUMN (ng/ul)	FINAL (ug/Kg)
$ 74 2-Fluorobiphenyl	172	7.557	7.557	(0.741)	2545411	32.4262	2162
77 Acenaphthylene	152	8.208	8.208	(0.805)	5008	0.05411	3.607
* 102 Phenanthrene-d10	188	10.197	10.197	(1.000)	97642	1.00000	
111 Phenanthrene	178	10.225	10.225	(1.003)	6168	0.06397	4.264
116 Fluoranthene	202	11.824	11.833	(1.160)	15018	0.15158	10.10
134 Pyrene	202	12.177	12.177	(1.194)	28447	0.27874	18.58
* 154 Perylene-d12	264	17.132	17.123	(1.000)	44694	1.00000	
$ 135 Terphenyl-d14	244	12.438	12.428	(1.220)	3086826	45.7441	3050
138 Benzo(a)anthracene	228	14.297	14.297	(1.402)	5454	0.08467	5.644(M)
139 Chrysene	228	14.381	14.381	(1.410)	14826	0.23023	15.35
156 Benzo(b)fluoranthene	252	16.407	16.407	(0.958)	6963	0.12425	8.283(M)
157 Benzo(k)fluoranthene	252	16.444	16.454	(0.960)	8188	0.14829	9.886(M)
158 Benzo(a)pyrene	252	17.021	17.021	(0.993)	5409	0.12876	8.584

MEC
2/29/12

Data File: \\ELABNSH05\TARGET\chem\bna4.i\022412B4E.b\0215006.D
Report Date: 29-Feb-2012 12:12

Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS ON-COLUMN (ng/ul)	FINAL (ug/Kg)
159 Indeno(1,2,3-cd)pyrene	276	19.038	19.038	(1.111)	4001	0.11986	7.990
161 Benzo(g,h,i)perylene	276	19.531	19.531	(1.140)	4851	0.16132	10.75

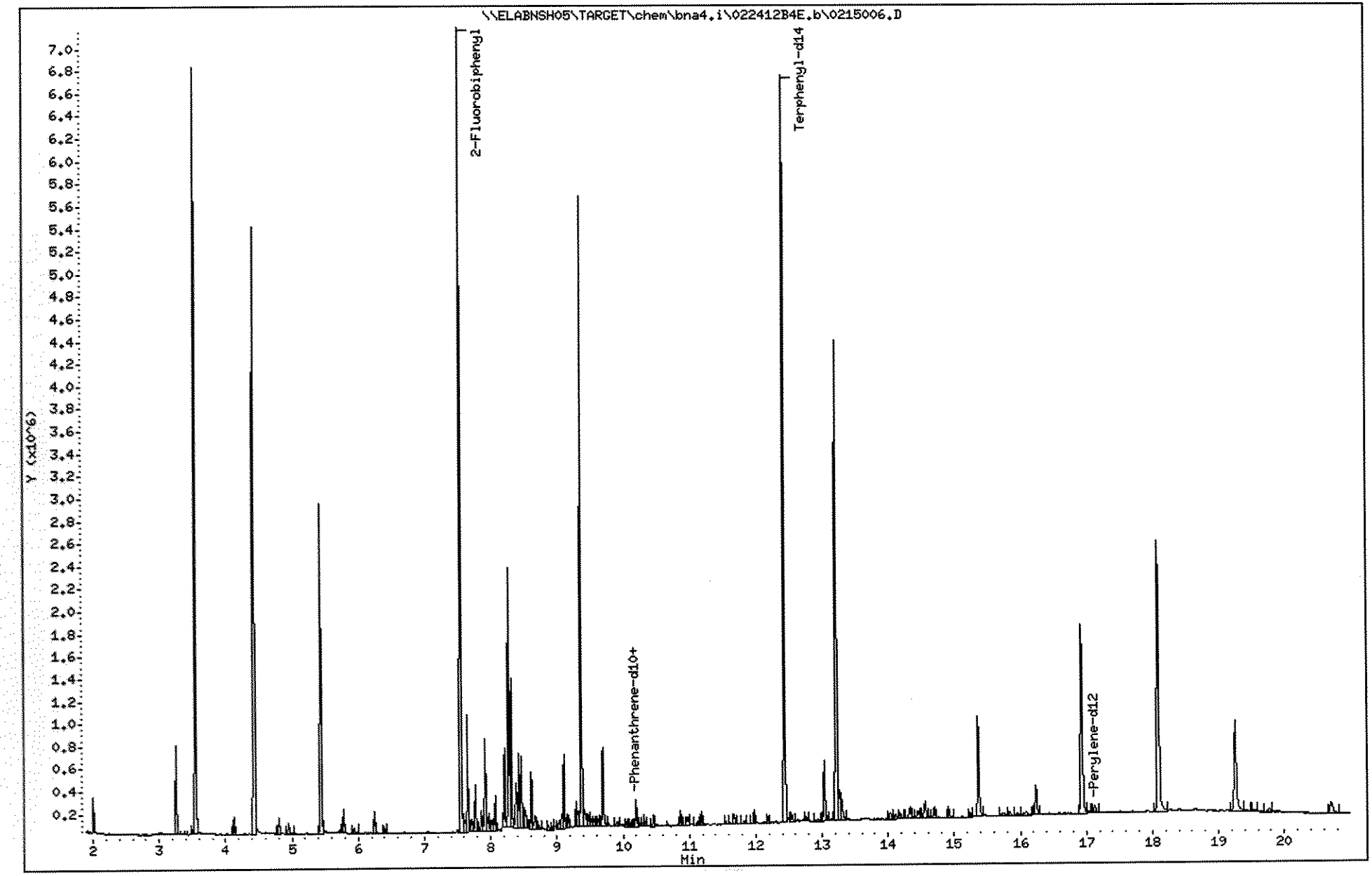
QC Flag Legend

M - Compound response manually integrated.

Data File: \\ELABNSH05\TARGET\chem\bna4.i\022412B4E.b\0215006.D
Date : 24-FEB-2012 23:43
Client ID: FLC-4-P02-0624-0221
Sample Info: 1202150-06;1;15;1000;1;ug/Kg;22-FEB-2012
Volume Injected (uL): 1.0
Column phase: fused silica

Instrument: bna4.i

Operator: MEC
Column diameter: 0.25



1202150

Data File: \\ELABNSH05\TARGET\chem\bna4.i\022412B4E.b\0215006.D

Date : 24-FEB-2012 23:43

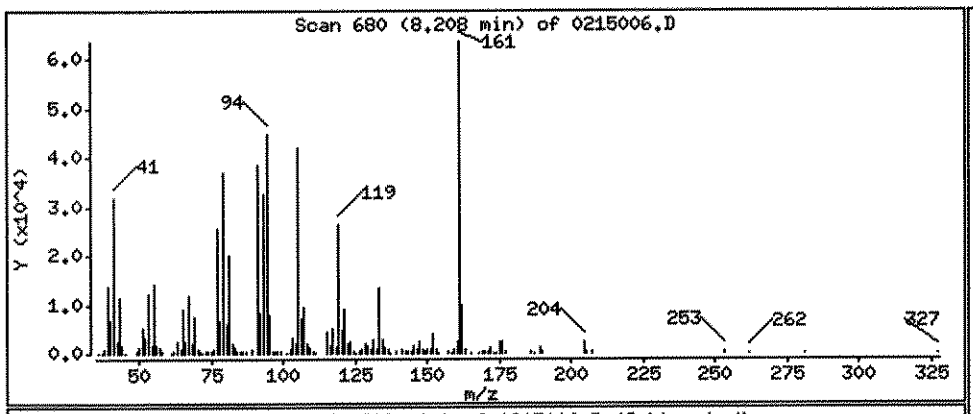
Client ID: FLC-4-P02-0624-0221 Instrument: bna4.i

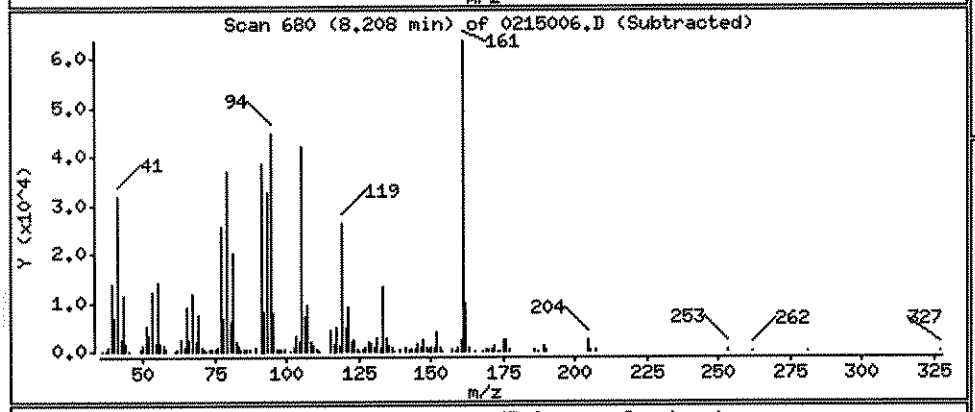
Sample Info: 1202150-06;1;15;1000;1;ug/Kg;22-FEB-2012

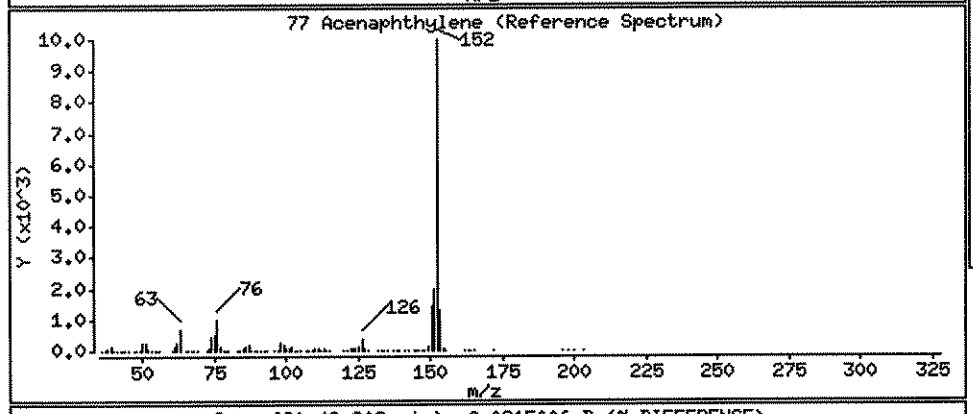
Volume Injected (uL): 1.0 Operator: MEC

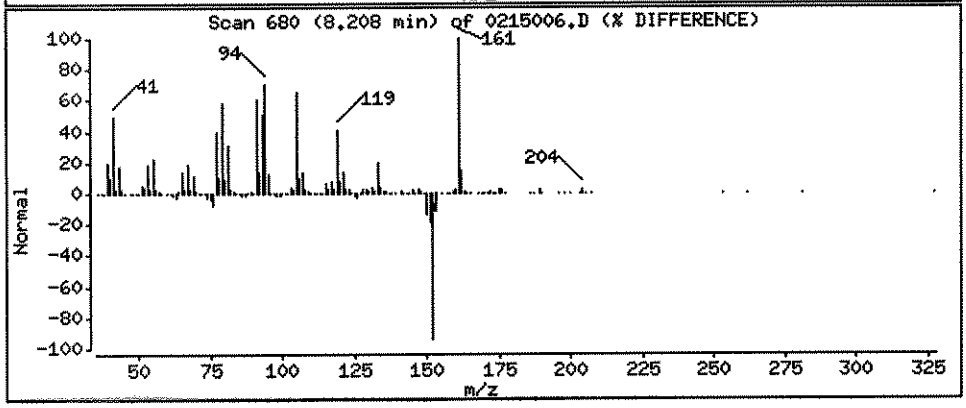
Column phase: fused silica Column diameter: 0.25

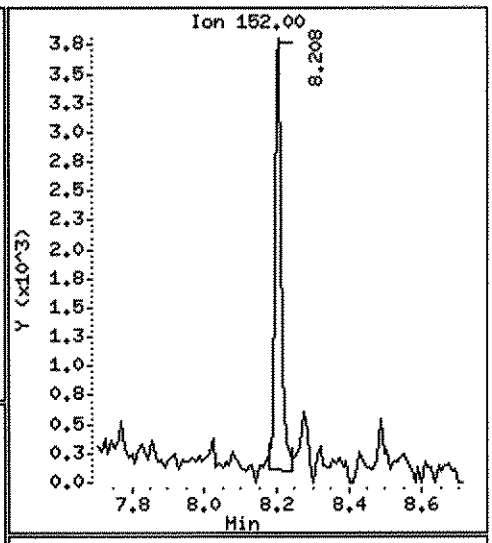
77 Acenaphthylene Concentration: 3.607 ug/Kg

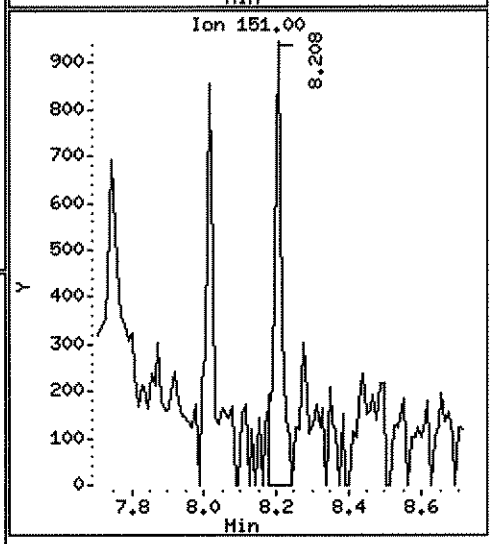












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Date : 24-FEB-2012 23:43

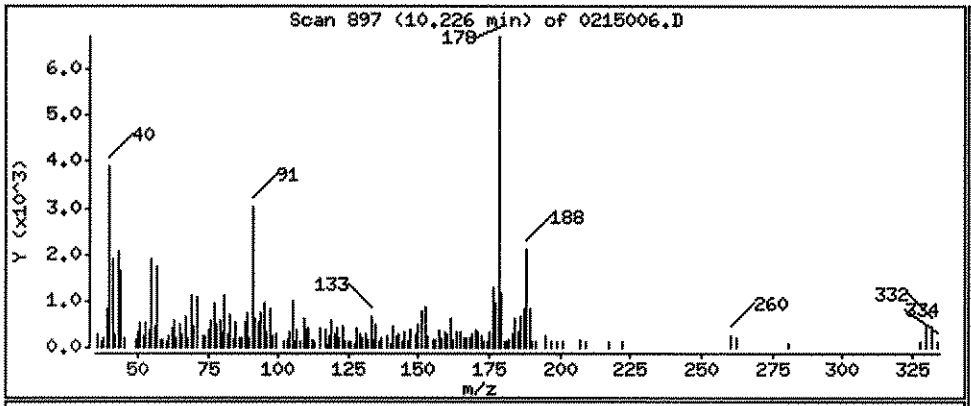
Client ID: FLC-4-P02-0624-0221 Instrument: bna4.i

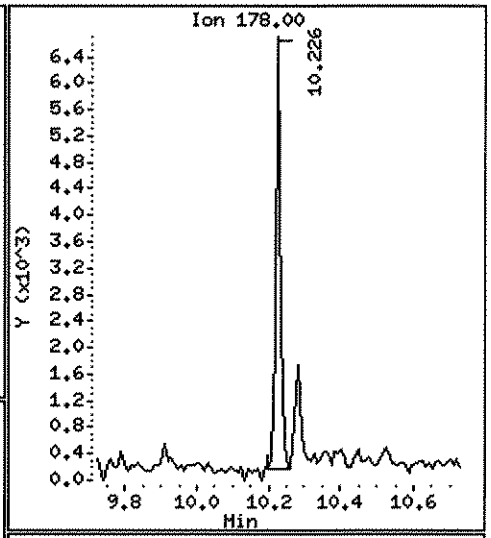
Sample Info: 1202150-06;1;15;1000;1;ug/Kg;22-FEB-2012

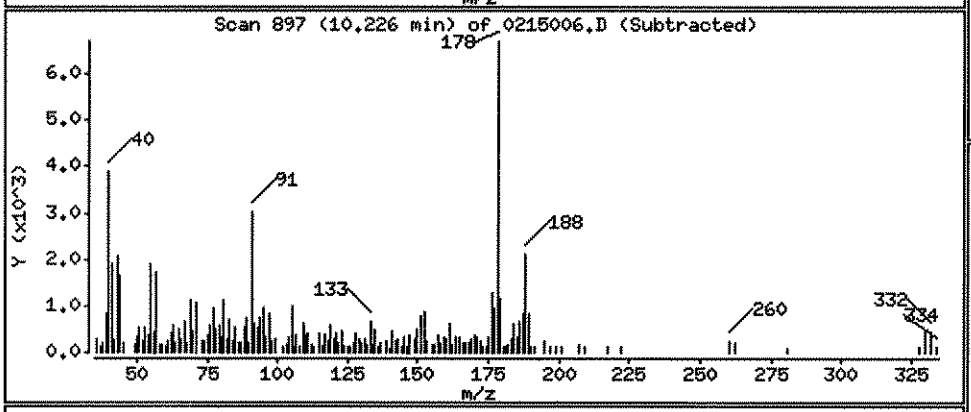
Volume Injected (uL): 1.0 Operator: MEC

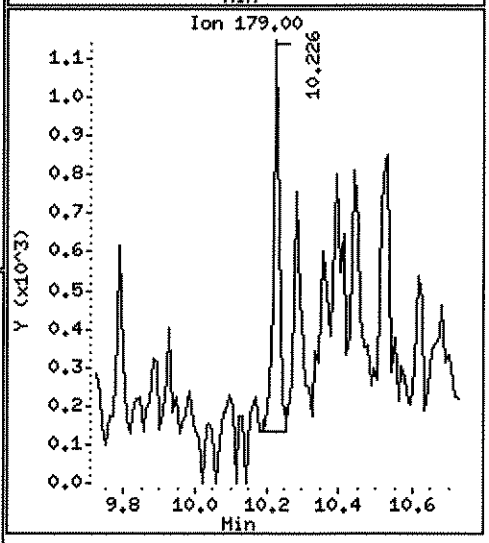
Column phase: fused silica Column diameter: 0.25

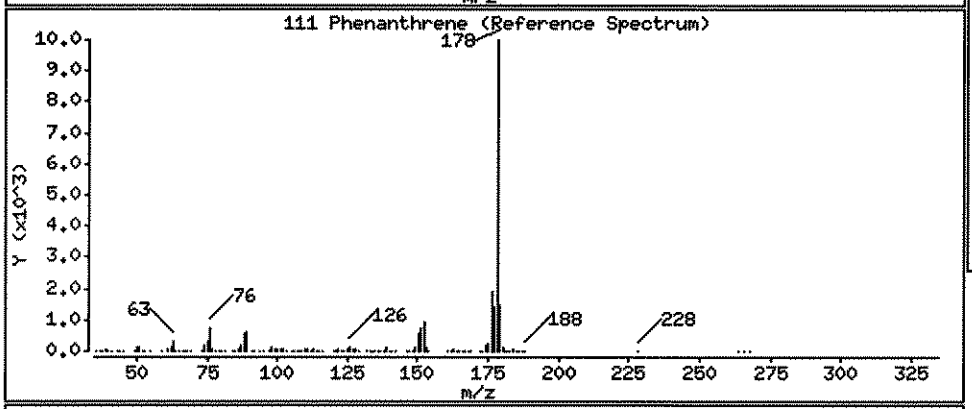
111 Phenanthrene Concentration: 4.264 ug/Kg

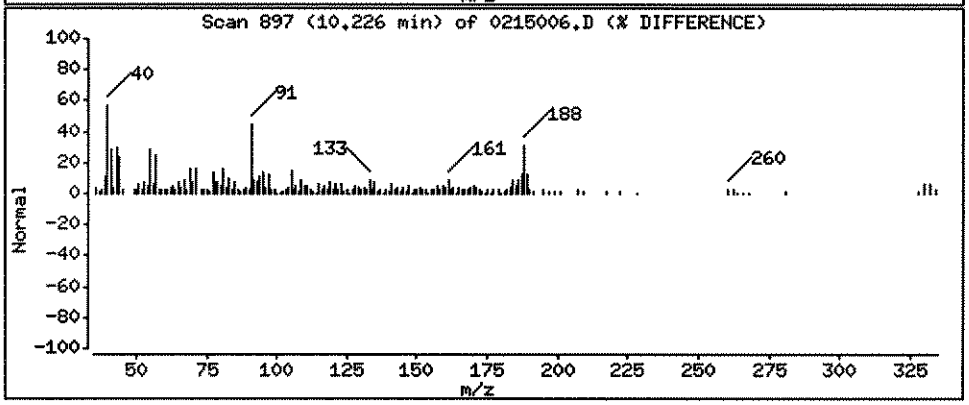












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Date : 24-FEB-2012 23:43

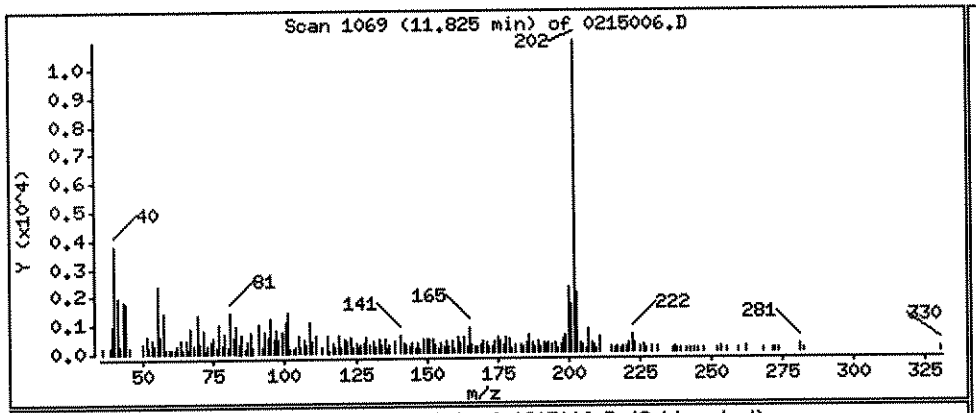
Client ID: FLC-4-PO2-0624-0221 Instrument: bna4.i

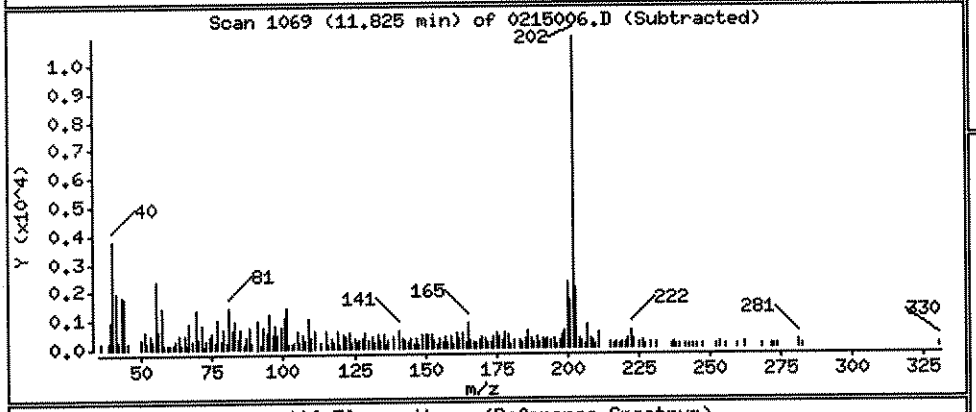
Sample Info: 1202150-06;1;15;1000;1;ug/Kg;22-FEB-2012

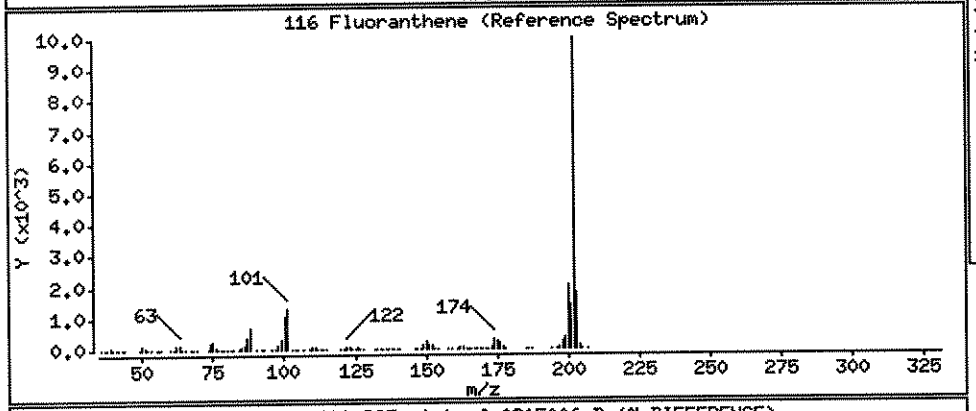
Volume Injected (uL): 1.0 Operator: MEC

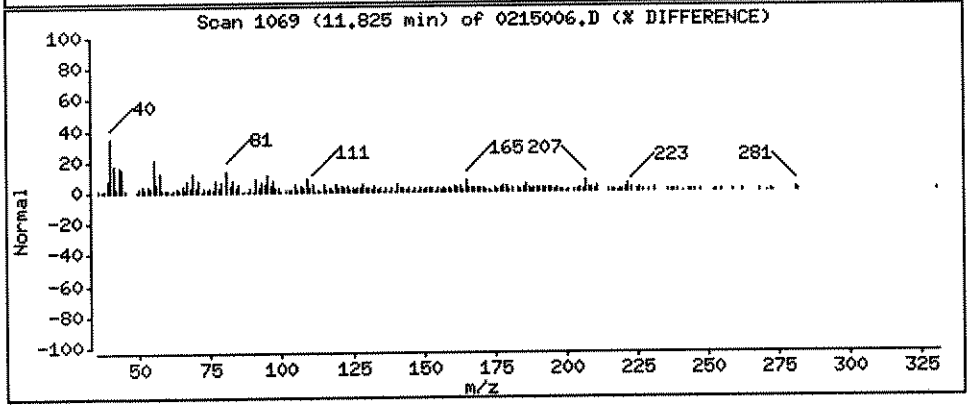
Column phase: fused silica Column diameter: 0.25

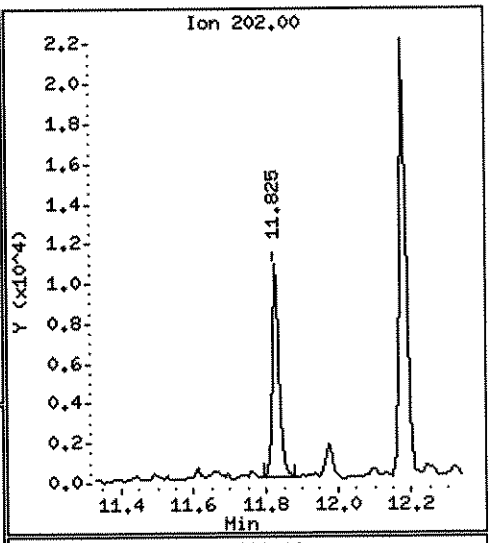
116 Fluoranthene Concentration: 10.10 ug/Kg

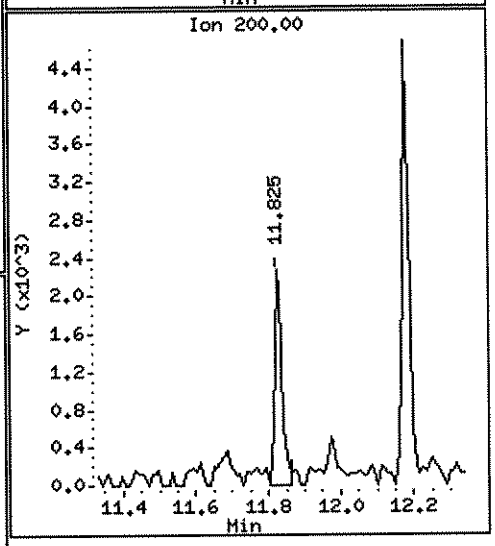












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Date : 24-FEB-2012 23:43

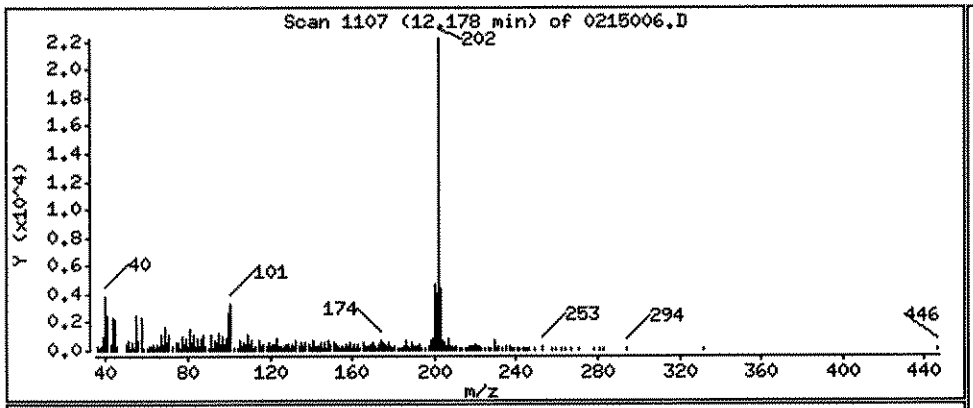
Client ID: FLC-4-P02-0624-0221 Instrument: bna4.i

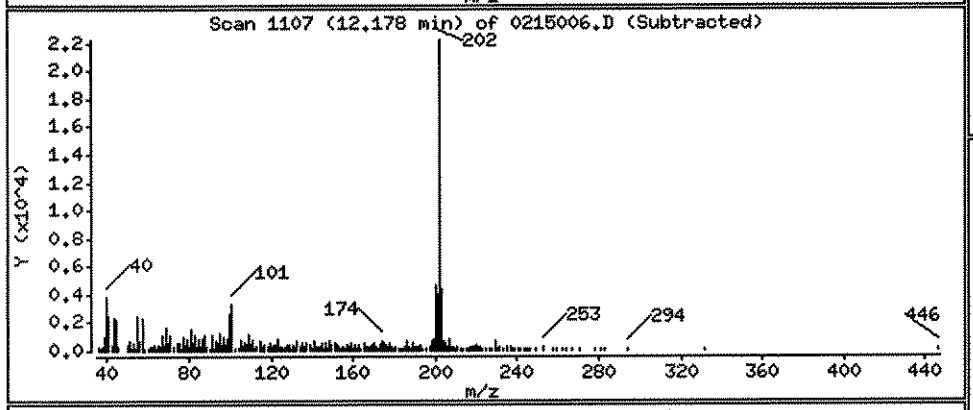
Sample Info: 1202150-06;1;15;1000;1;ug/Kg;22-FEB-2012

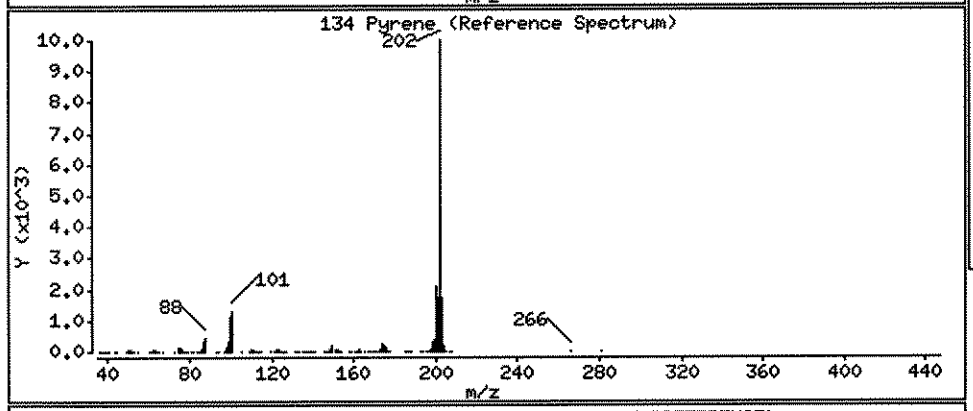
Volume Injected (uL): 1.0 Operator: MEC

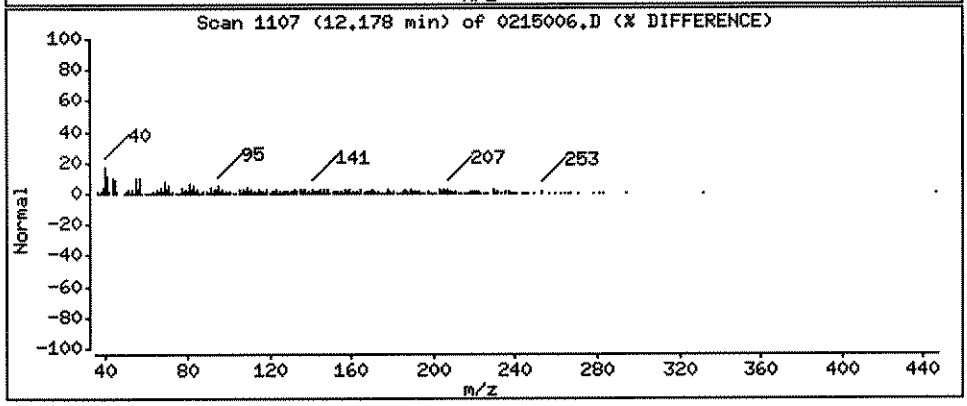
Column phase: fused silica Column diameter: 0.25

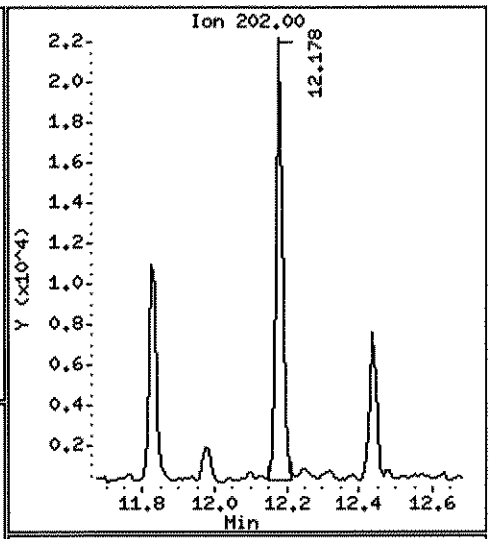
134 Pyrene Concentration: 18.58 ug/Kg

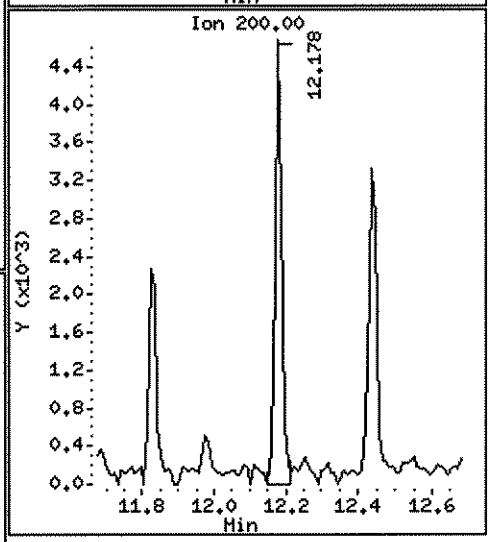












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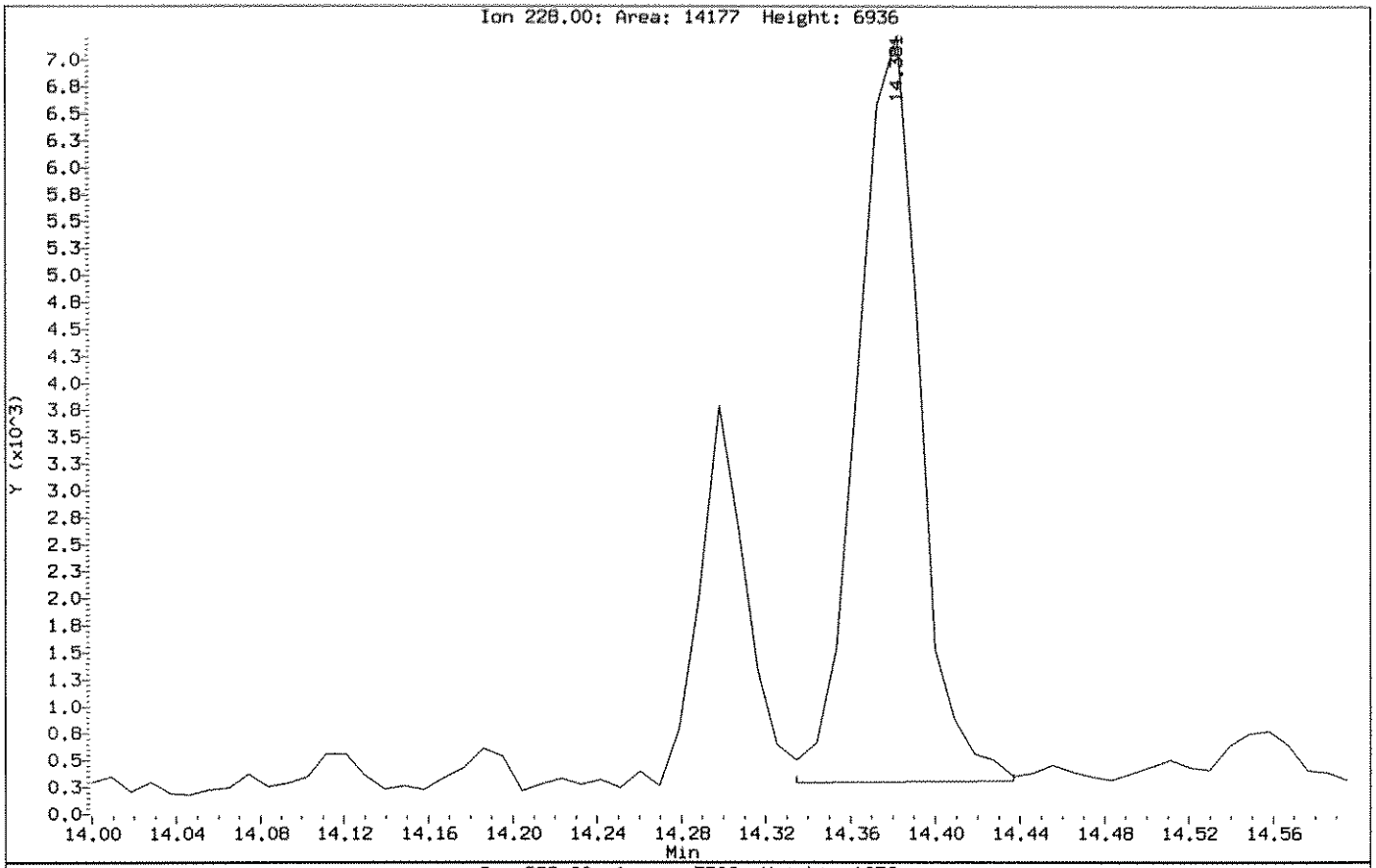
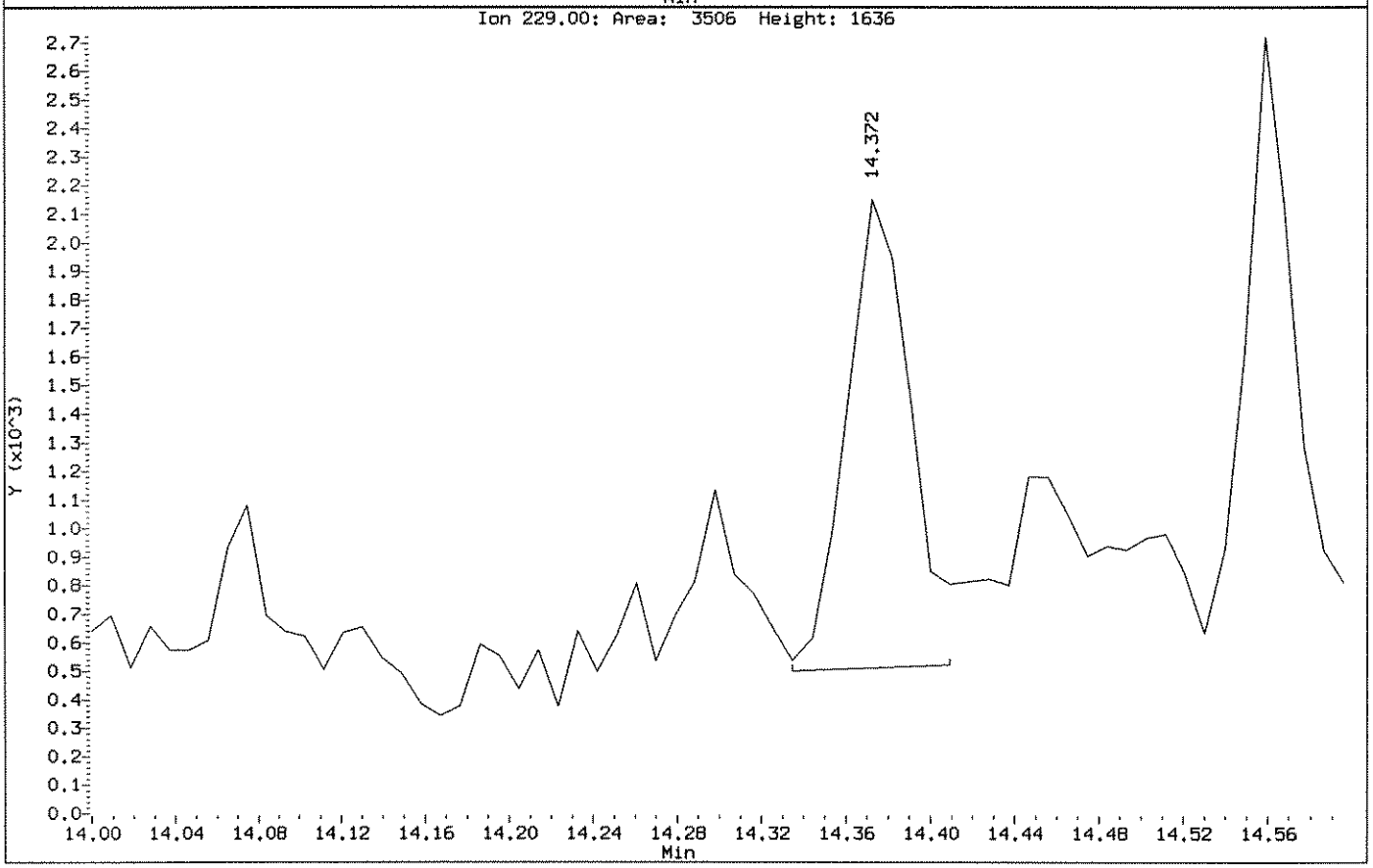
Injection Date: 24-FEB-2012 23:43
Instrument: bna4.i
Client Sample ID: FLC-4-P02-0624-0221

Compound: Benzo(a)anthracene
CAS Number: 56-55-3





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Date : 24-FEB-2012 23:43

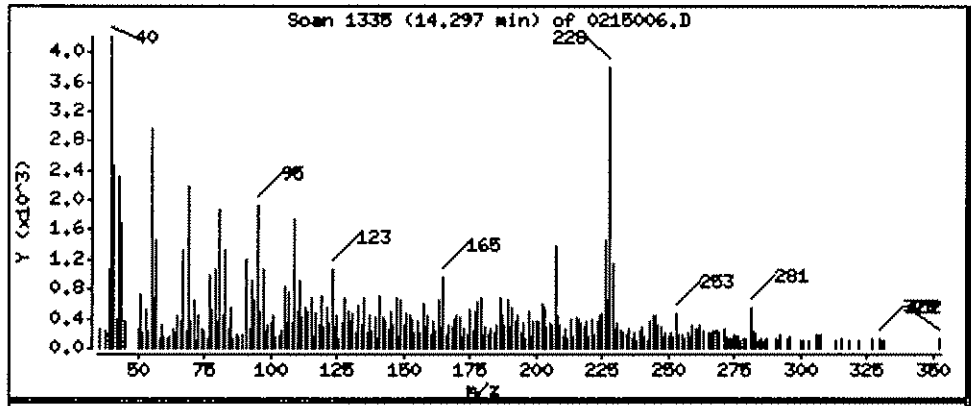
Client ID: FLC-4-P02-0624-0221 Instrument: bna4.i

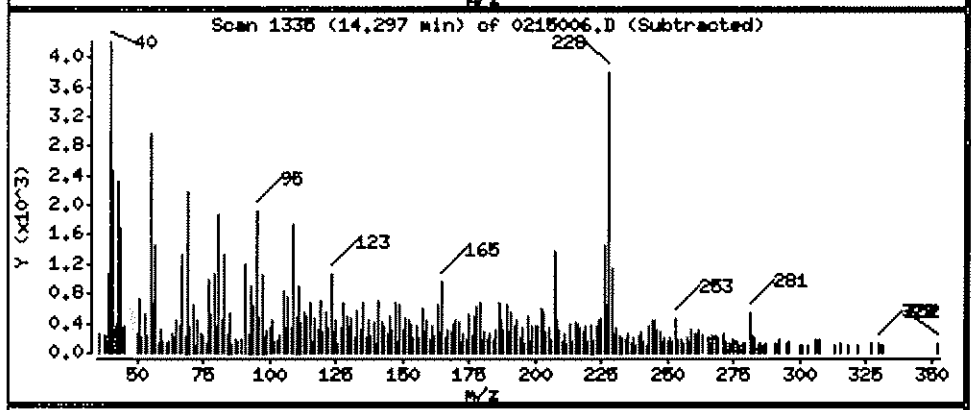
Sample Info: 1202150-06;1;15;1000;1;ug/Kg;22-FEB-2012

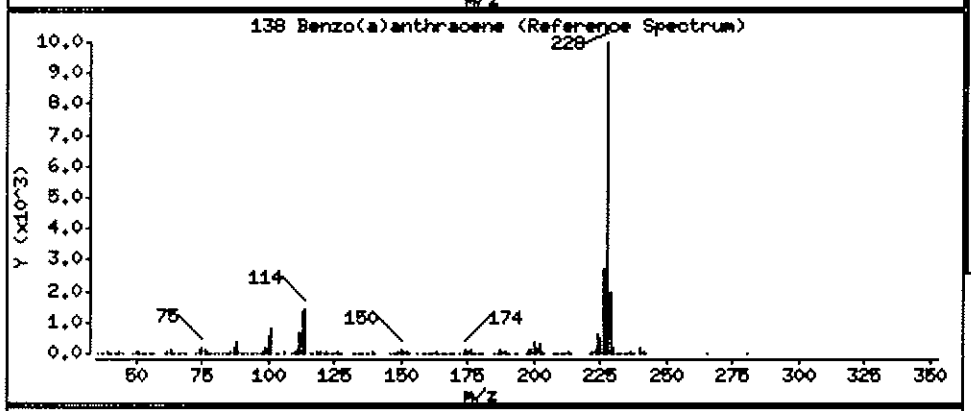
Volume Injected (uL): 1.0 Operator: HEC

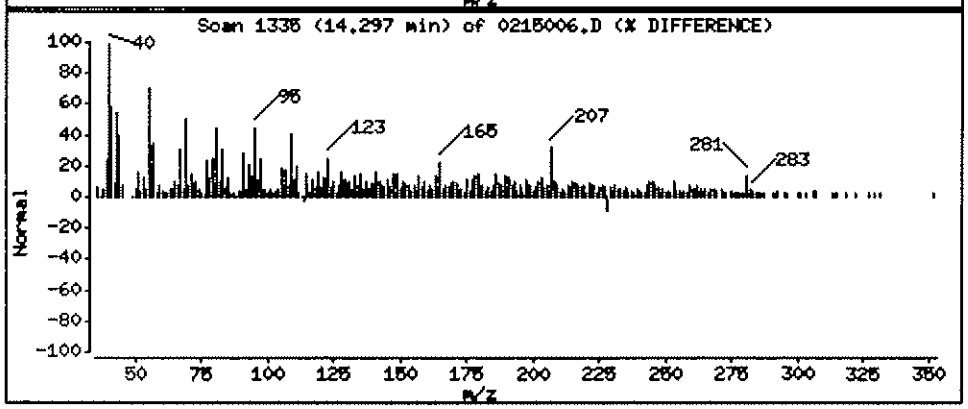
Column phase: fused silica Column diameter: 0.25

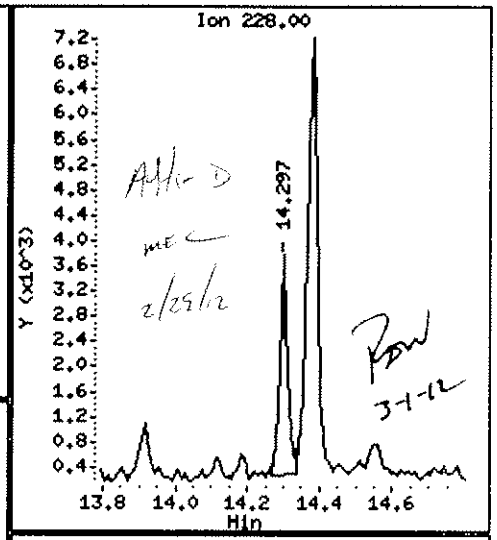
138 Benzo(a)anthracene Concentration: 5.644 ug/Kg

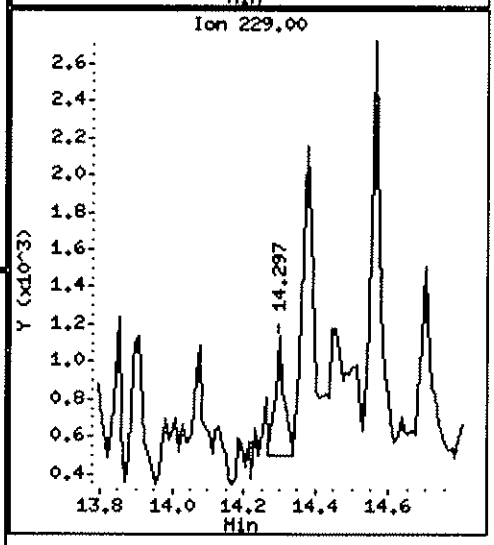












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Date : 24-FEB-2012 23:43

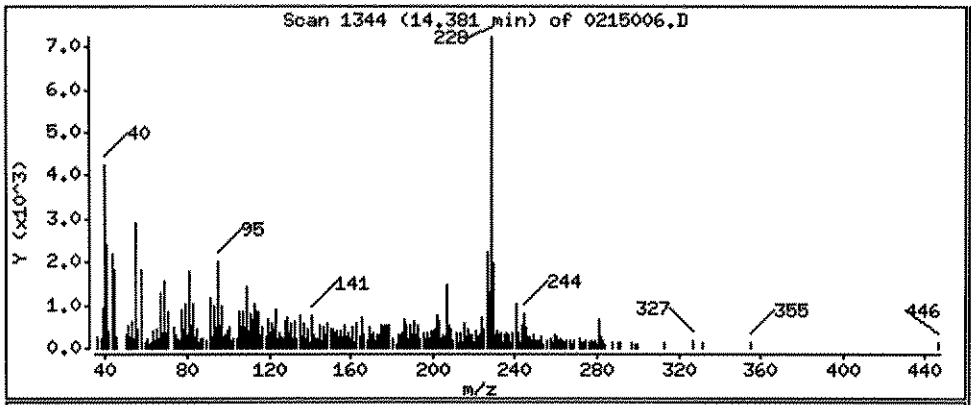
Client ID: FLC-4-P02-0624-0221 Instrument: bna4.i

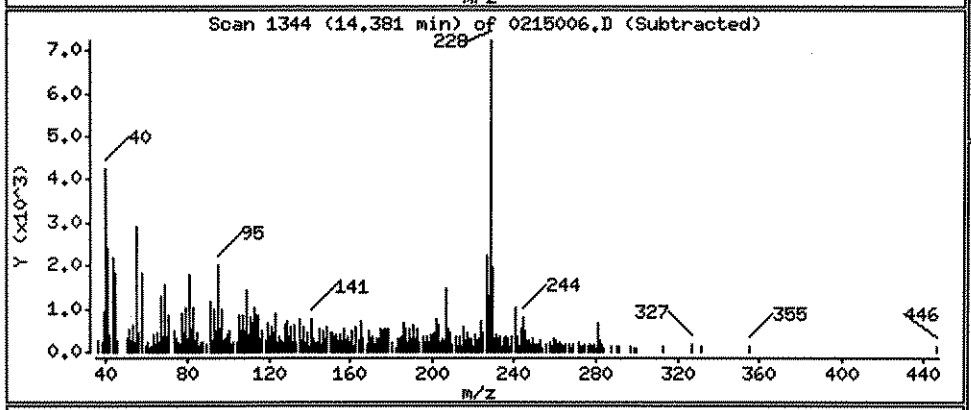
Sample Info: 1202150-06;1;15;1000;1;ug/Kg;22-FEB-2012

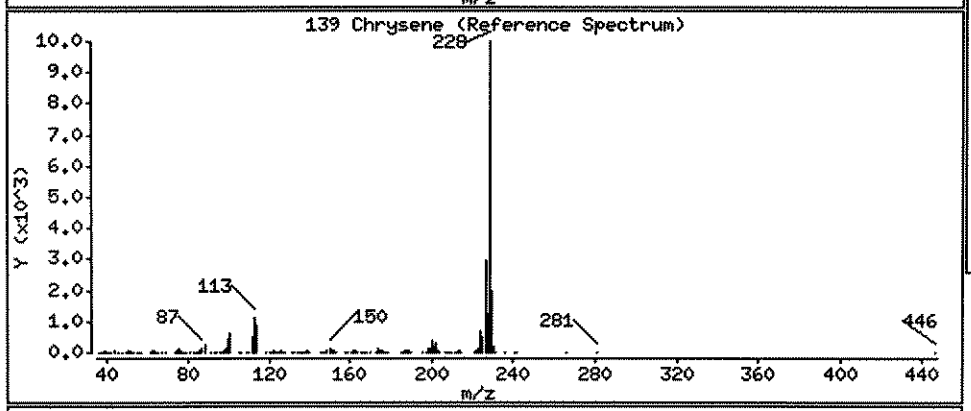
Volume Injected (uL): 1.0 Operator: MEC

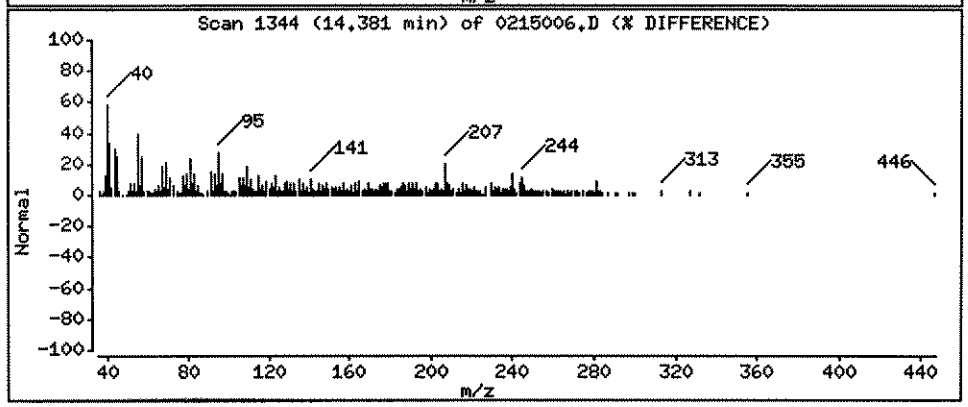
Column phase: fused silica Column diameter: 0.25

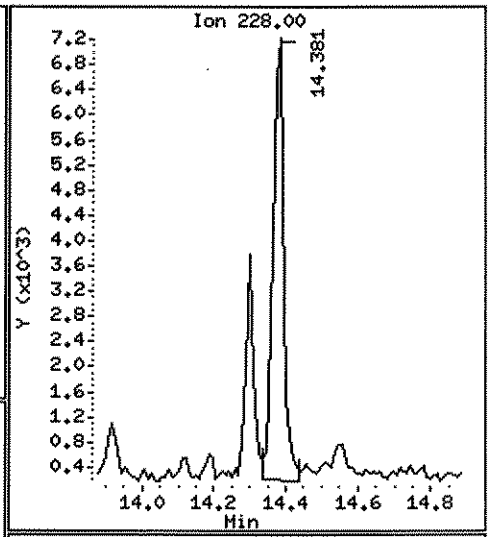
139 Chrysene Concentration: 15.35 ug/Kg

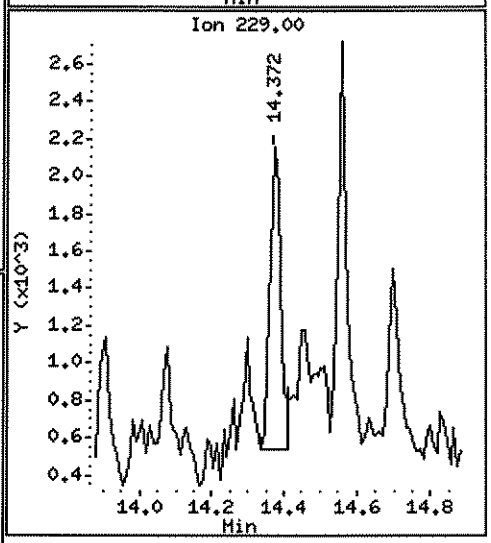












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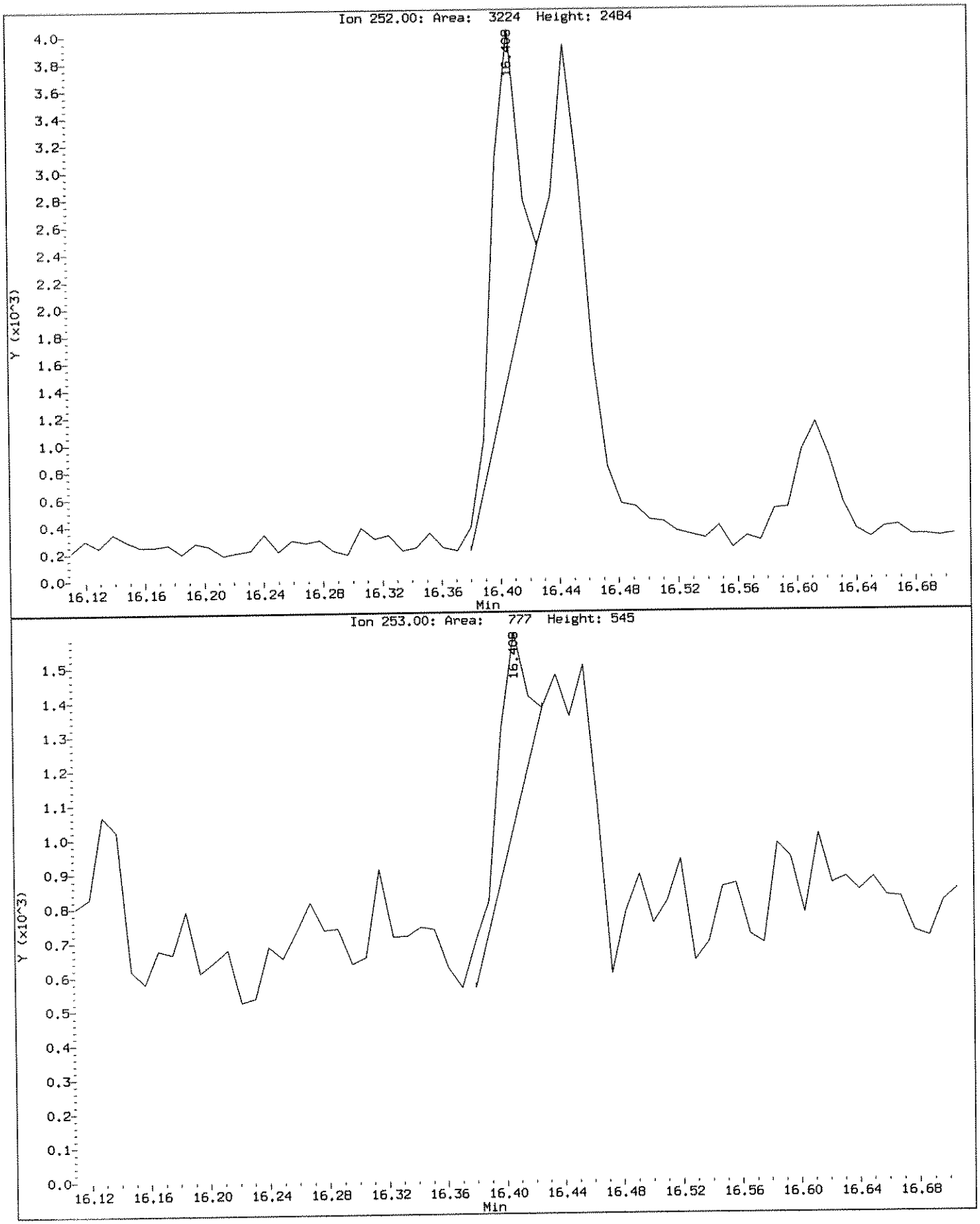
Injection Date: 24-FEB-2012 23:43
Instrument: bna4.i
Client Sample ID: FLC-4-P02-0624-0221

Compound: Benzo(b)fluoranthene
CAS Number: 205-99-2



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Date : 24-FEB-2012 23:43

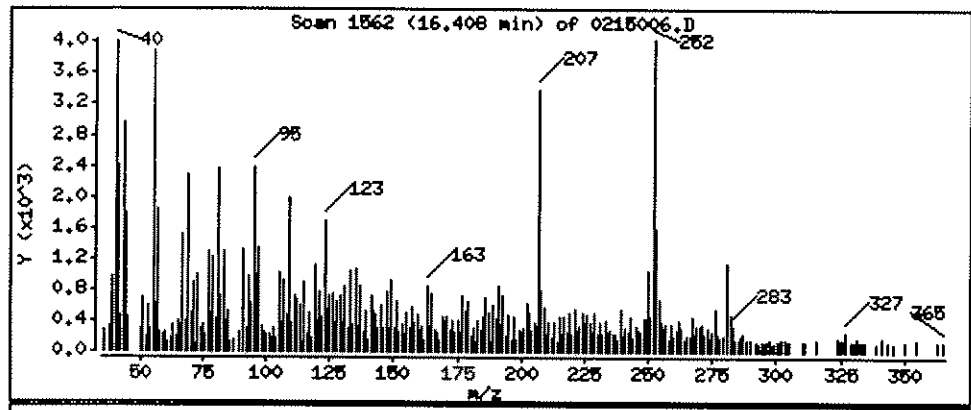
Client ID: FLC-4-P02-0624-0221 | Instrument: bna4.i

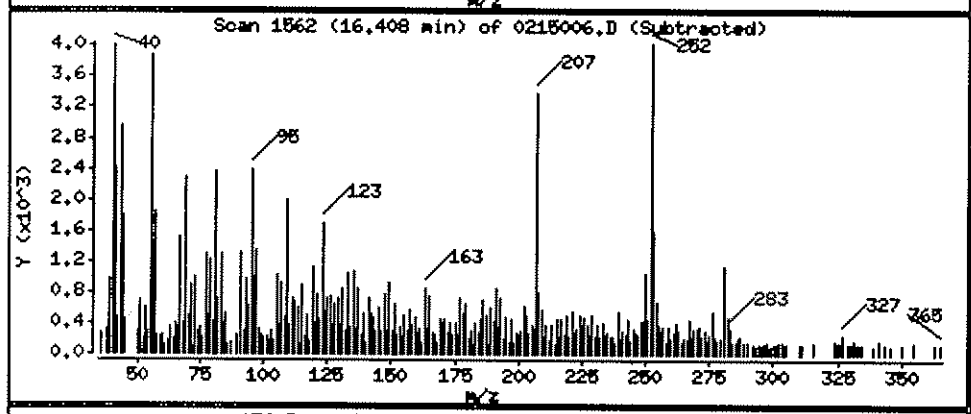
Sample Info: 1202150-06;1;15;1000;1;ug/Kg;22-FEB-2012

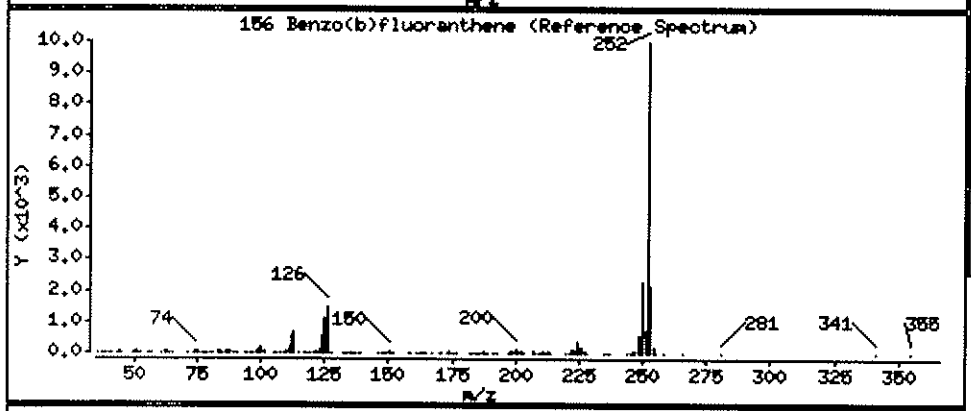
Volume Injected (uL): 1.0 | Operator: HEC

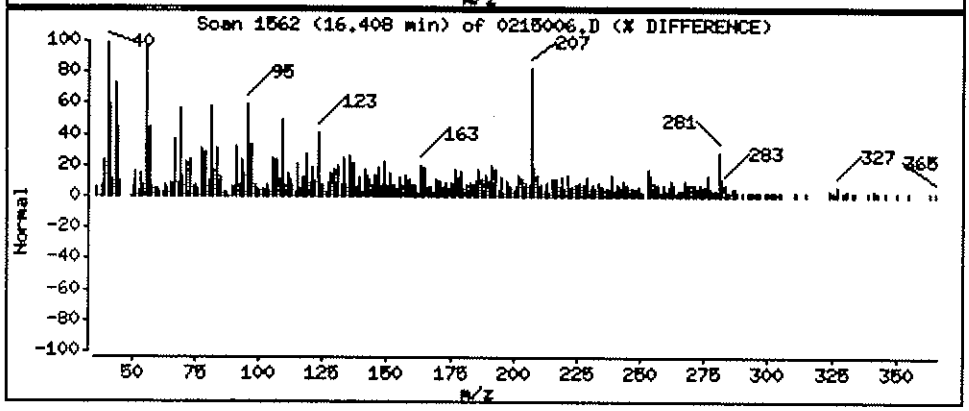
Column phase: fused silica | Column diameter: 0.25

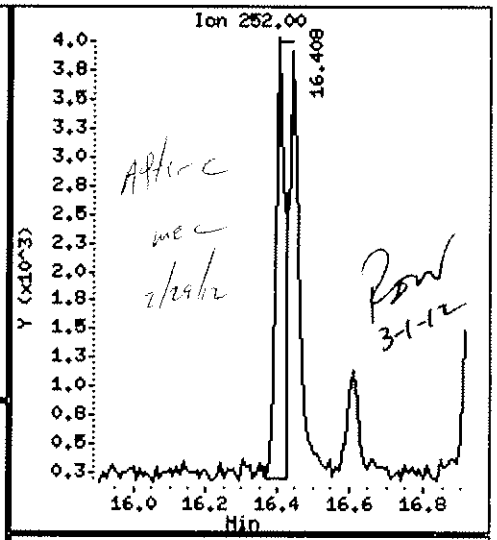
156 Benzo(b)fluoranthene | Concentration: 8.283 ug/Kg

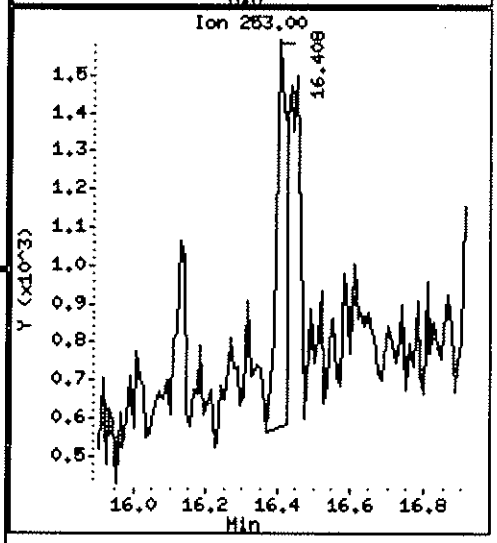












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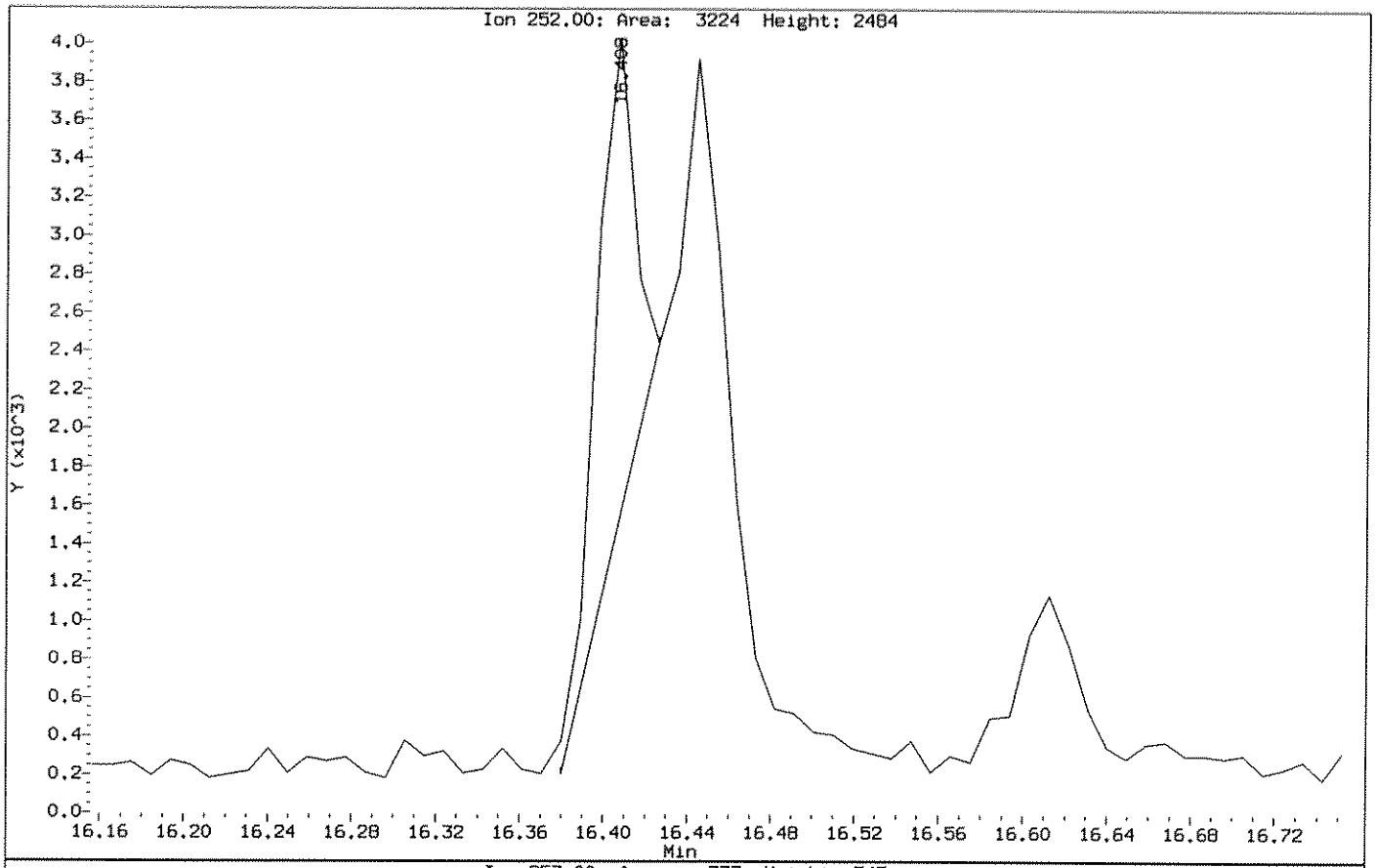
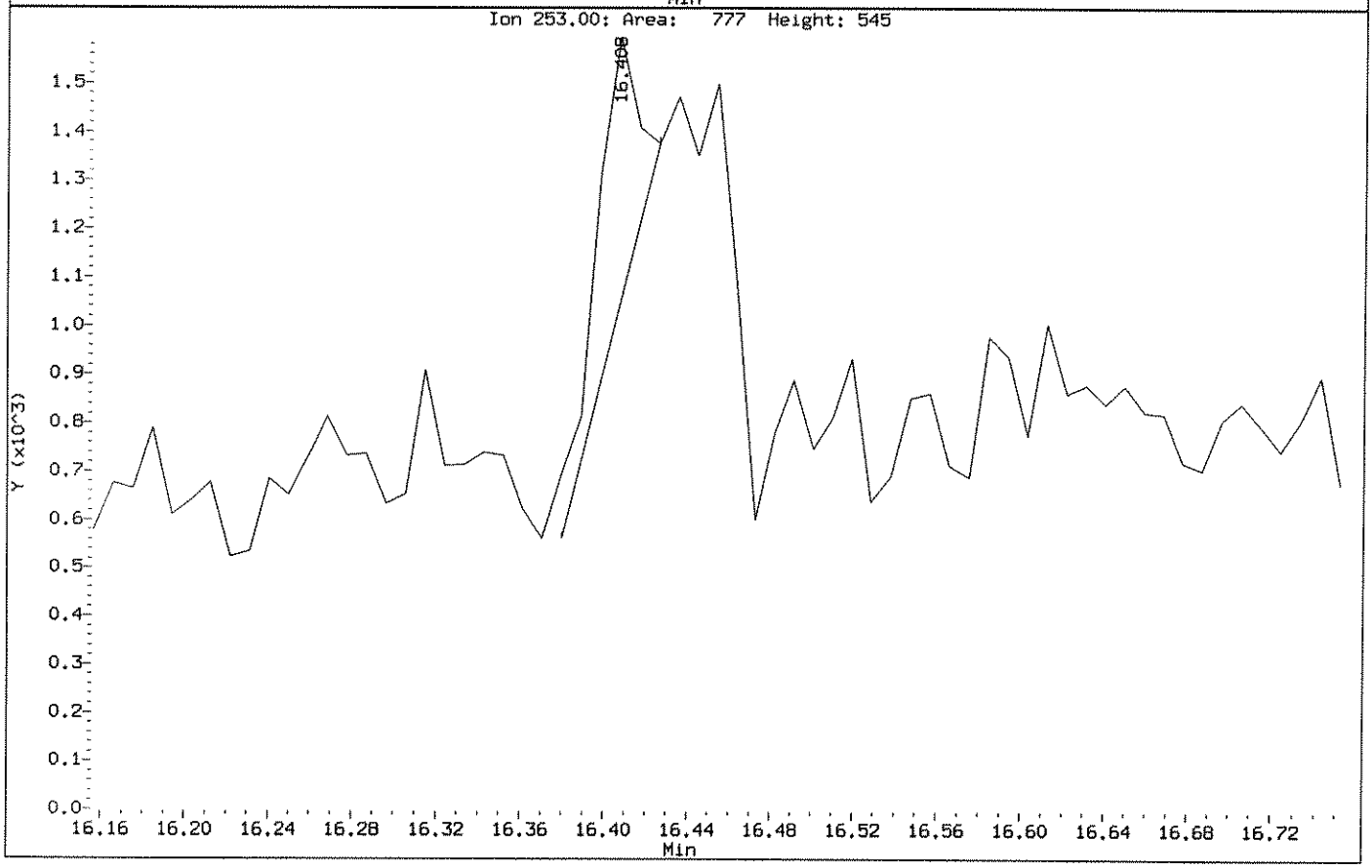
Injection Date: 24-FEB-2012 23:43
Instrument: bna4.i
Client Sample ID: FLC-4-P02-0624-0221

Compound: Benzo(k)fluoranthene
CAS Number: 207-08-9





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Date : 24-FEB-2012 23:43

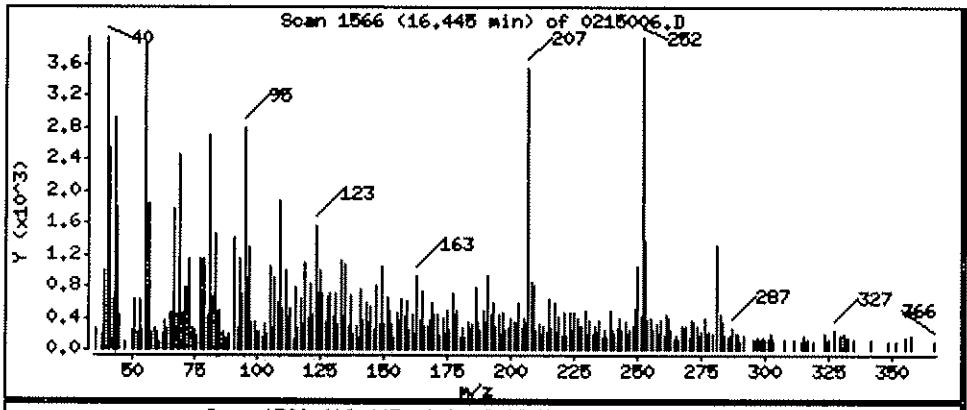
Client ID: FLC-4-P02-0624-0221 Instrument: bna4.i

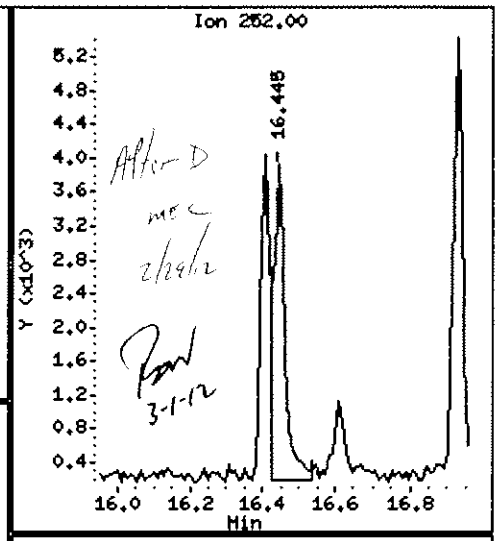
Sample Info: 1202150-06;1;15;1000;1;ug/Kg;22-FEB-2012

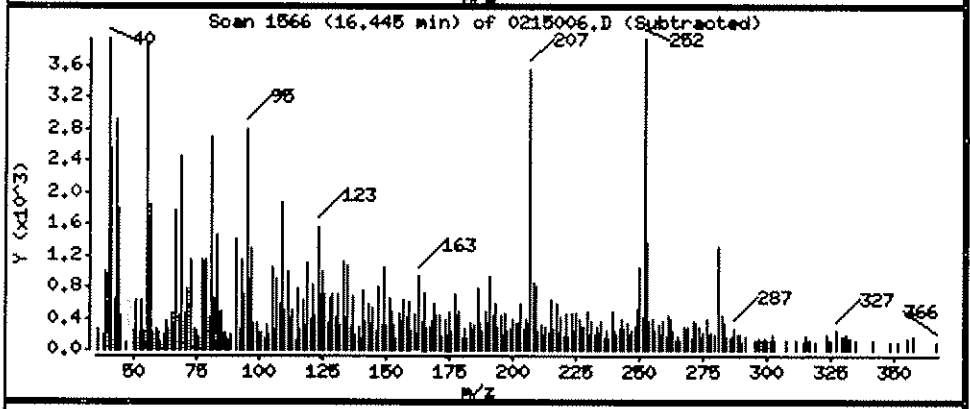
Volume Injected (uL): 1.0 Operator: MEC

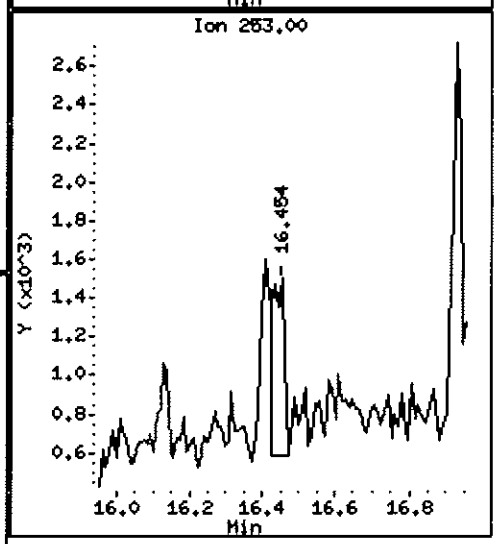
Column phase: fused silica Column diameter: 0.25

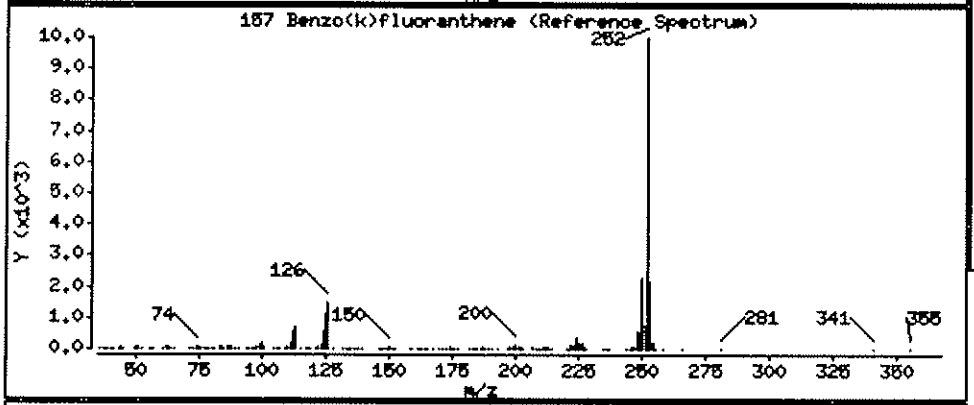
157 Benzo(k)fluoranthene Concentration: 9.886 ug/Kg

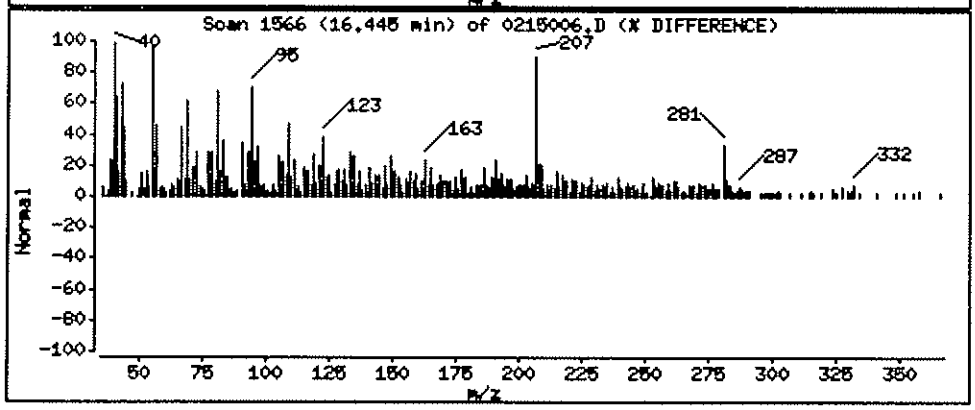












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Date : 24-FEB-2012 23:43

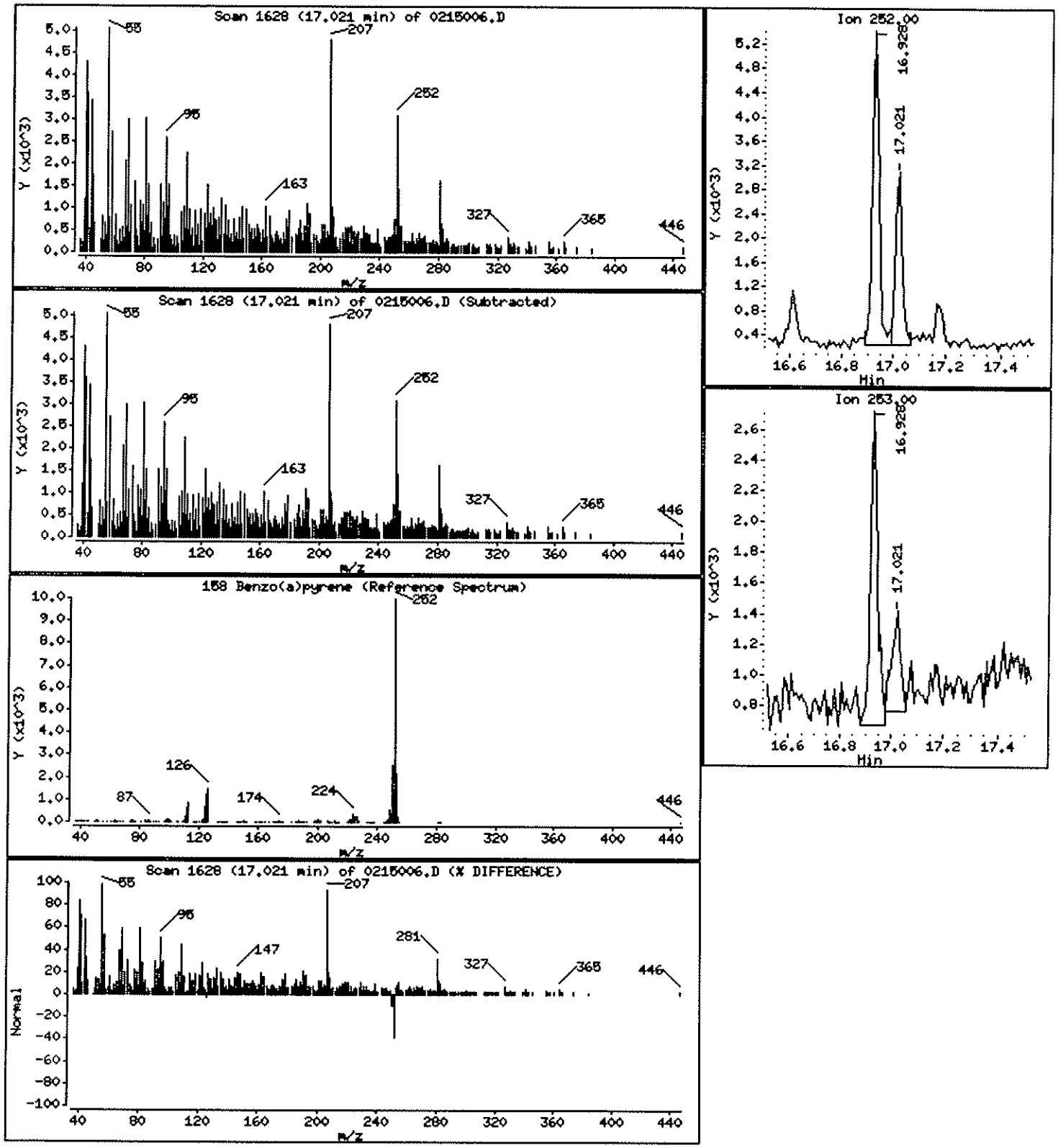
Client ID: FLC-4-P02-0624-0221 Instrument: bna4.i

Sample Info: 1202150-06;1;15;1000;1;ug/Kg;22-FEB-2012

Volume Injected (uL): 1.0 Operator: HEC

Column phase: fused silica Column diameter: 0.25

158 Benzo(a)pyrene Concentration: 8.584 ug/Kg



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Date : 24-FEB-2012 23:43

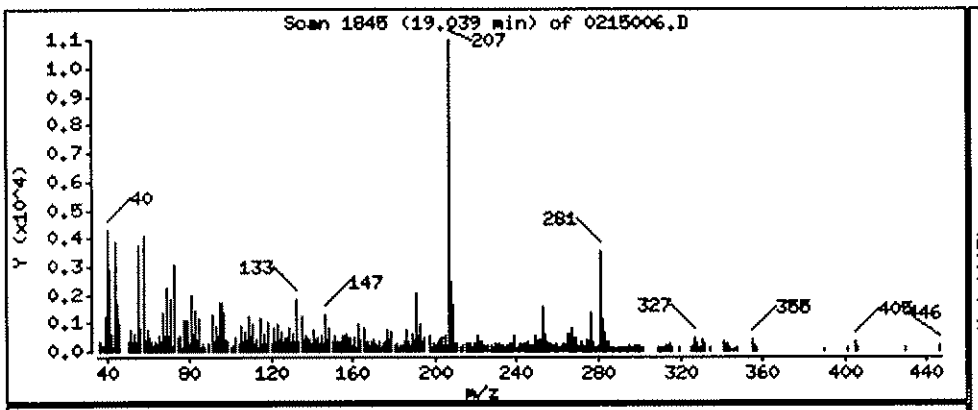
Client ID: FLC-4-P02-0624-0221 Instrument: bna4.i

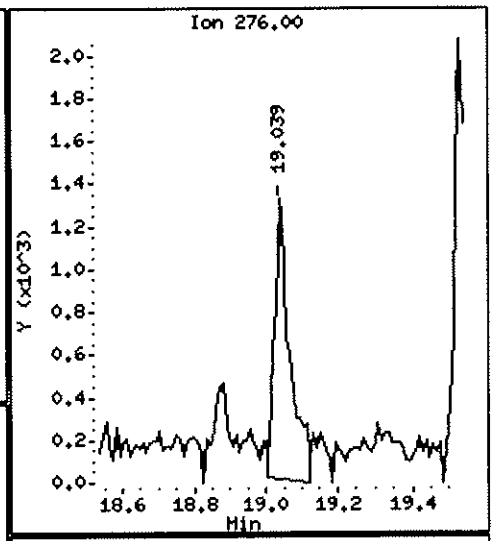
Sample Info: 1202150-06;1;15;1000;1;ug/Kg;22-FEB-2012

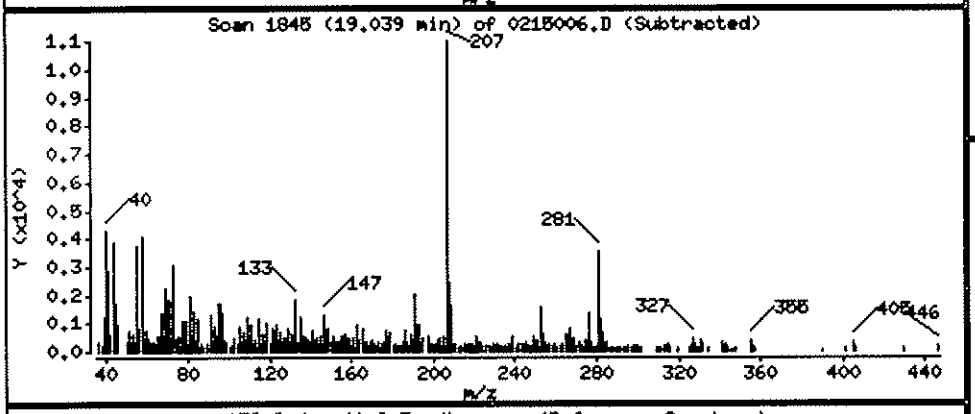
Volume Injected (uL): 1.0 Operator: MEC

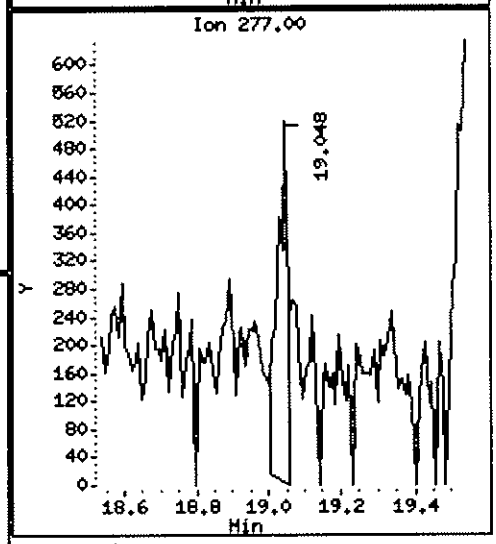
Column phase: fused silica Column diameter: 0.25

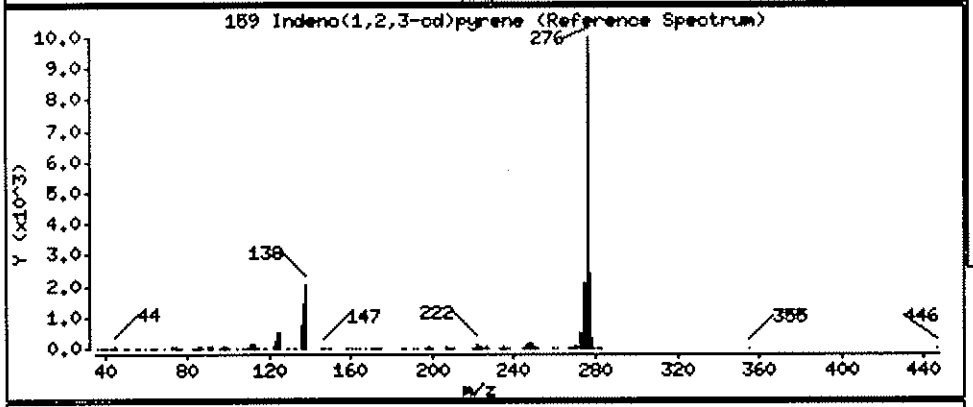
159 Indeno(1,2,3-cd)pyrene Concentration: 7.990 ug/Kg

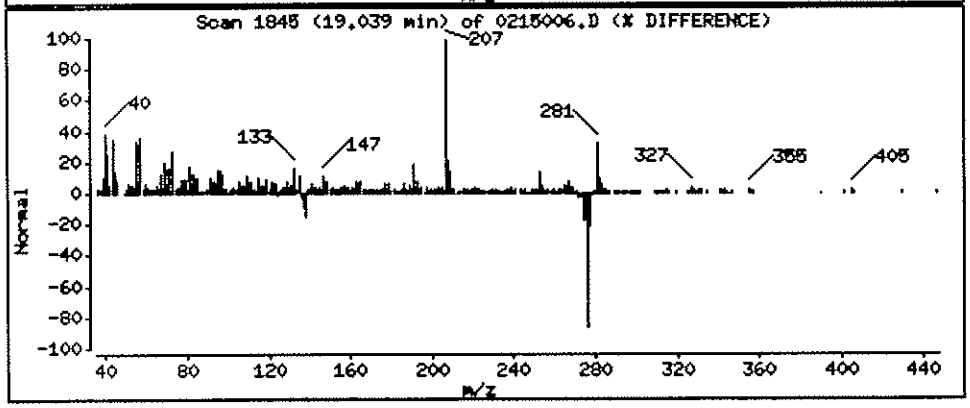












Data File: \\ELABNSH05\TARGET\chem\bna4.i\022412B4E.b\0215006.D

Date : 24-FEB-2012 23:43

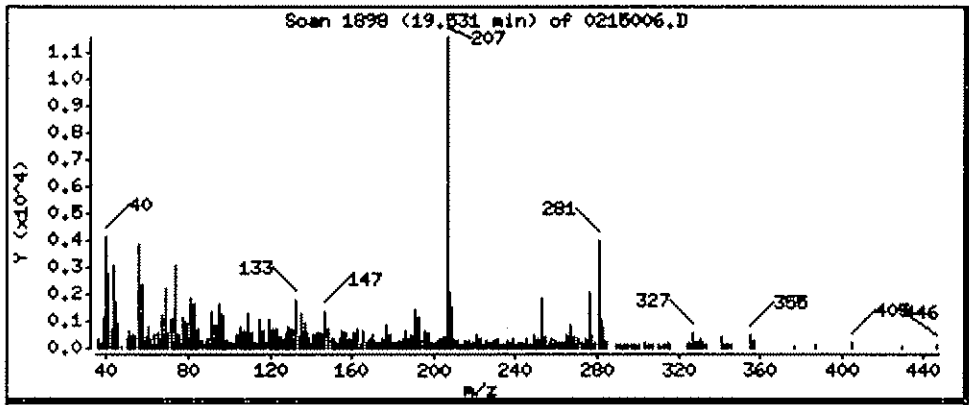
Client ID: FLC-4-P02-0624-0221 Instrument: bna4.i

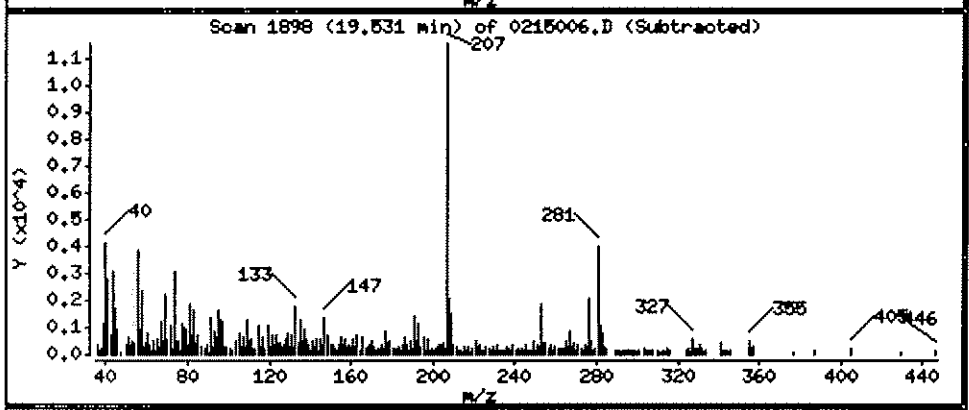
Sample Info: 1202150-06;1;15;1000;1;ug/Kg;22-FEB-2012

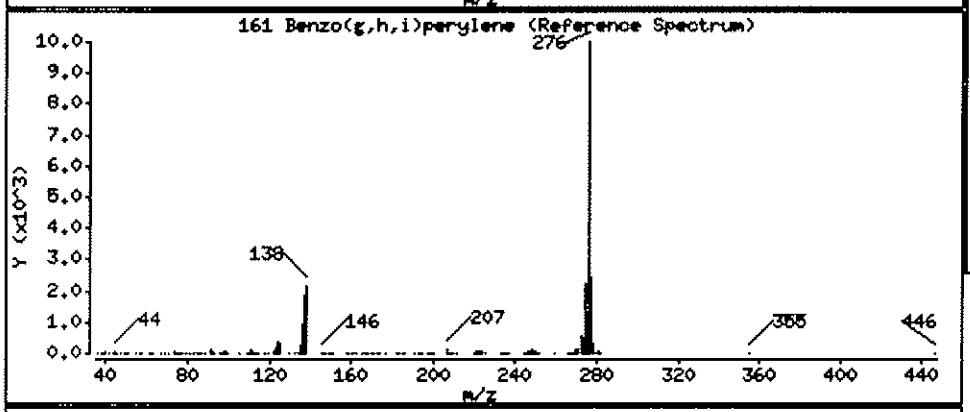
Volume Injected (uL): 1.0 Operator: MEC

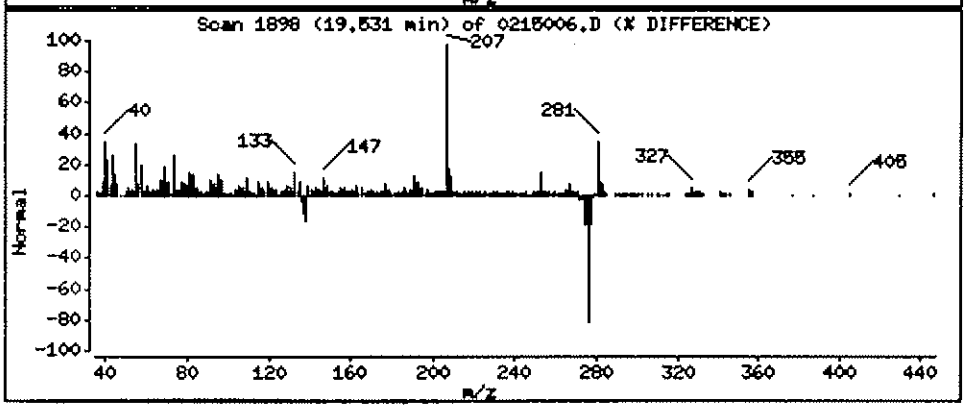
Column phase: fused silica Column diameter: 0.25

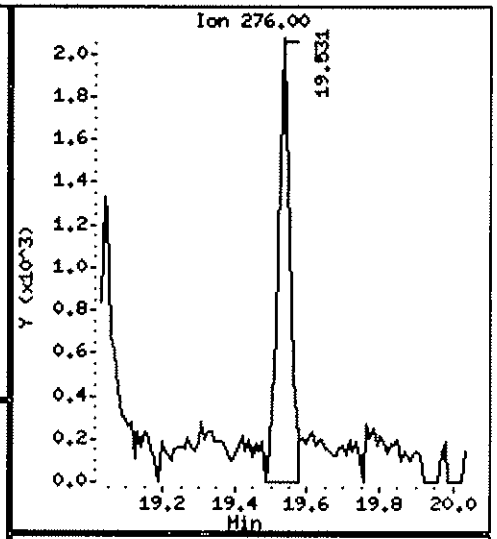
161 Benzo(g,h,i)perylene Concentration: 10.75 ug/Kg

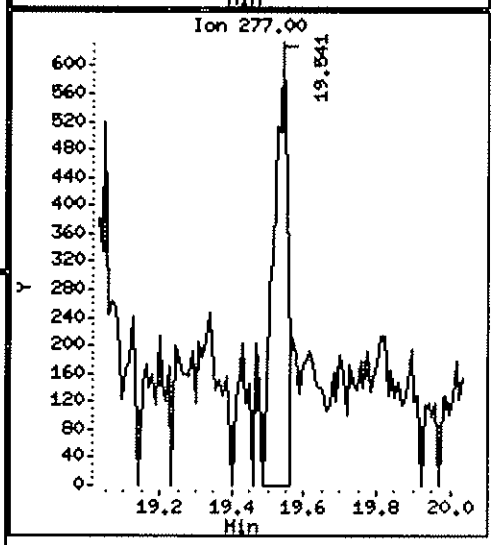












Data File: \\ELABNSH05\TARGET\chem\bna4.i\022412B4E.b\0215007D.D
Report Date: 29-Feb-2012 12:12

Laboratory Name

Data file : \\ELABNSH05\TARGET\chem\bna4.i\022412B4E.b\0215007D.D
Lab Smp Id: 1202150-07 Client Smp ID: FLC-4-PO2-0204-0221
Inj Date : 25-FEB-2012 00:12 MS Autotune Date: 15-FEB-2012 09:23
Operator : MEC Inst ID: bna4.i
Smp Info : 1202150-07;50;15;1000;1;ug/Kg;22-FEB-2012
Misc Info : ;0;;;;2B22014;pahlow.sub;
Comment :
Method : \\ELABNSH05\TARGET\chem\bna4.i\022412B4E.b\IXBN4LOW.m
Meth Date : 29-Feb-2012 12:10 mcobb Quant Type: ISTD
Cal Date : 20-FEB-2012 16:29 Cal File: SEQ-CAL1.D
Als bottle: 29
Dil Factor: 50.00000
Integrator: HP RTE Compound Sublist: pahlow.sub
Target Version: 4.04
Processing Host: TARGET09_VM

Concentration Formula: Amt * DF * Uf * Vt*Vi/(Amt * Vi * (Solids/100))

Name	Value	Description
DF	50.000	Dilution Factor
Uf	1.000	ng unit correction factor
Vt	1000.000	Volume of final extract (uL)(1000 low, 2
Amt	15.000	Mass of initial extraction
Vi	1.000	Volume injected (uL)
Solids	100.000	Percent Solids

PBW 3-1-12

Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS ON-COLUMN (ng/ul)	FINAL (ug/Kg)
$ 74 2-Fluorobiphenyl	172	7.557	7.557	(0.741)	56253	0.74363	2479
* 102 Phenanthrene-d10	188	10.197	10.197	(1.000)	94094	1.00000	
116 Fluoranthene	202	11.834	11.833	(1.160)	19193	0.20103	670.1
134 Pyrene	202	12.178	12.177	(1.194)	68546	0.69699	2323
* 154 Perylene-d12	264	17.132	17.123	(1.000)	54890	1.00000	
$ 135 Terphenyl-d14	244	12.429	12.428	(1.219)	69578	1.06997	3566
156 Benzo(b)fluoranthene	252	16.407	16.407	(0.958)	3210	0.04664	155.5(a)
157 Benzo(k)fluoranthene	252	16.445	16.454	(0.960)	2109	0.03110	103.7(aM)
158 Benzo(a)pyrene	252	17.021	17.021	(0.993)	4249	0.08236	274.5(QM)
161 Benzo(g,h,i)perylene	276	19.540	19.531	(1.141)	2230	0.06039	201.3

MEC 2/29/12

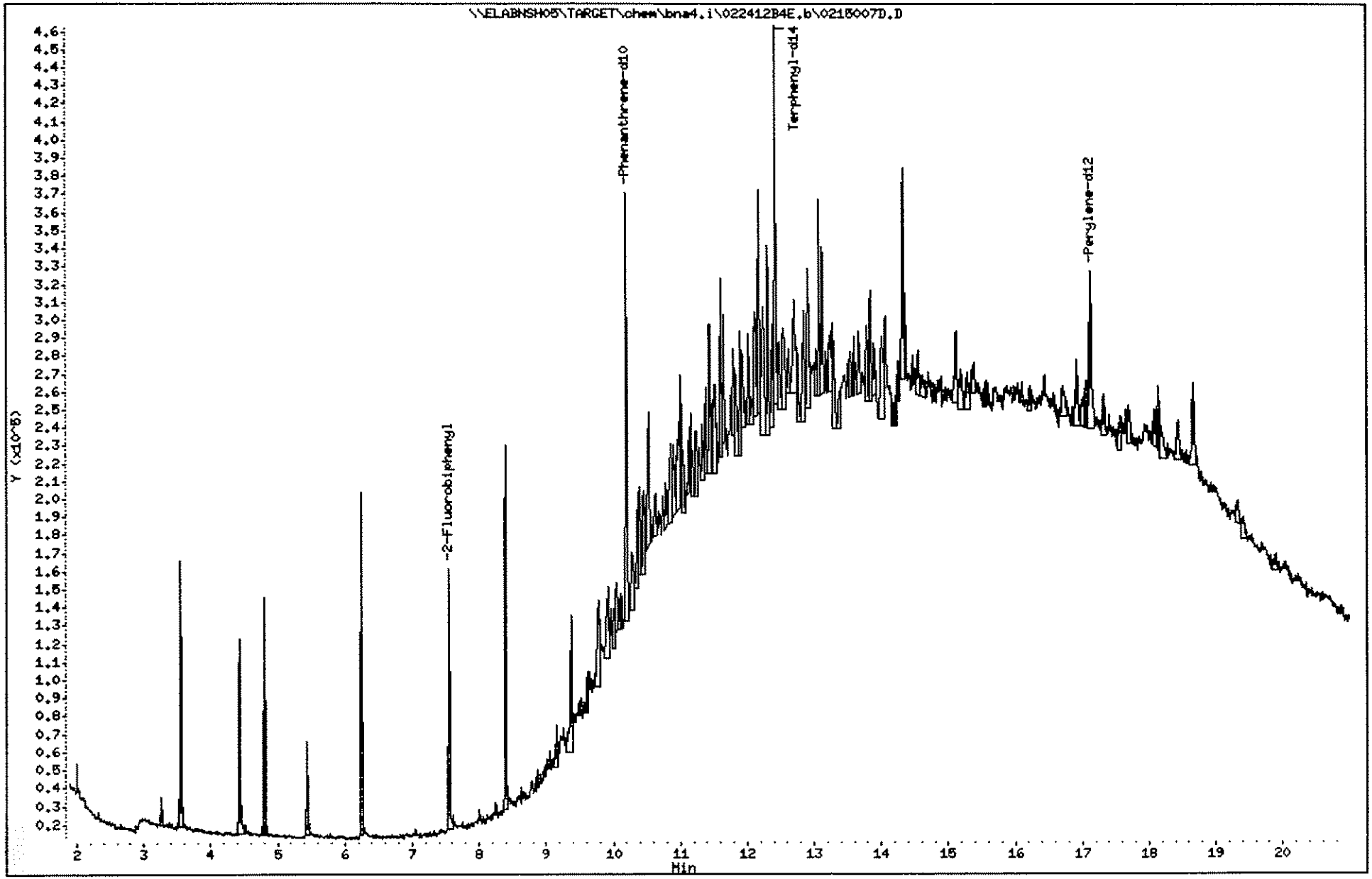
Data File: \\ELABNSH05\TARGET\chem\bna4.i\022412B4E.b\0215007D.D
Report Date: 29-Feb-2012 12:12

QC Flag Legend

a - Target compound detected but, quantitated amount
    Below Limit Of Quantitation(BLOQ).
Q - Qualifier signal failed the ratio test.
M - Compound response manually integrated.

Data File: \\ELABNSH05\TARGET\chem\bna4.i\022412B4E.b\0215007D.D
Date : 25-FEB-2012 00:12
Client ID: FLC-4-P02-0204-0221
Sample Info: 1202150-07;50;15;1000;1;ug/Kg;22-FEB-2012
Volume Injected (uL): 1.0
Column phase: fused silica

Instrument: bna4.i
Operator: HEC
Column diameter: 0.25



1202150

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Date : 25-FEB-2012 00:12

Client ID: FLC-4-P02-0204-0221

Instrument: bna4.i

Sample Info: 1202150-07;50;15;1000;1;ug/Kg;22-FEB-2012

Volume Injected (uL): 1.0

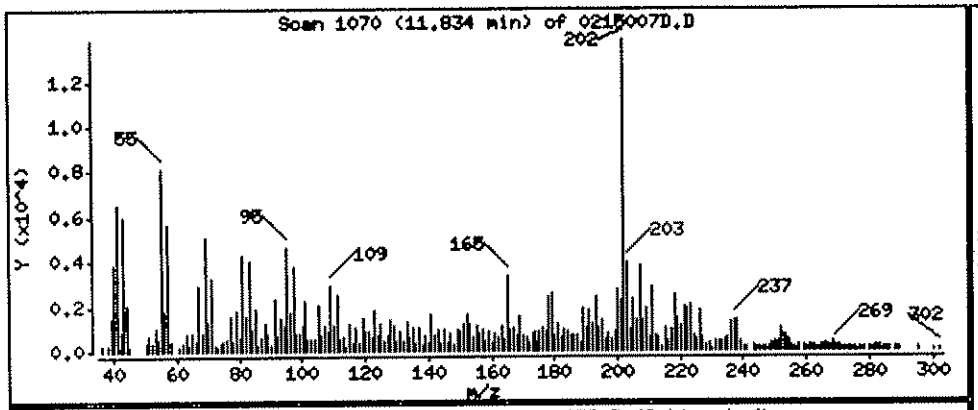
Operator: MEC

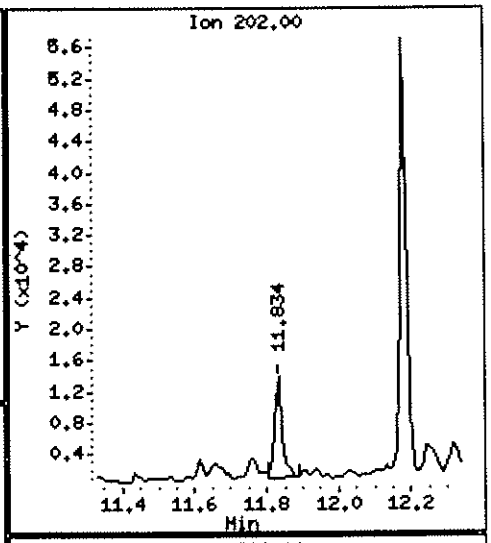
Column phase: fused silica

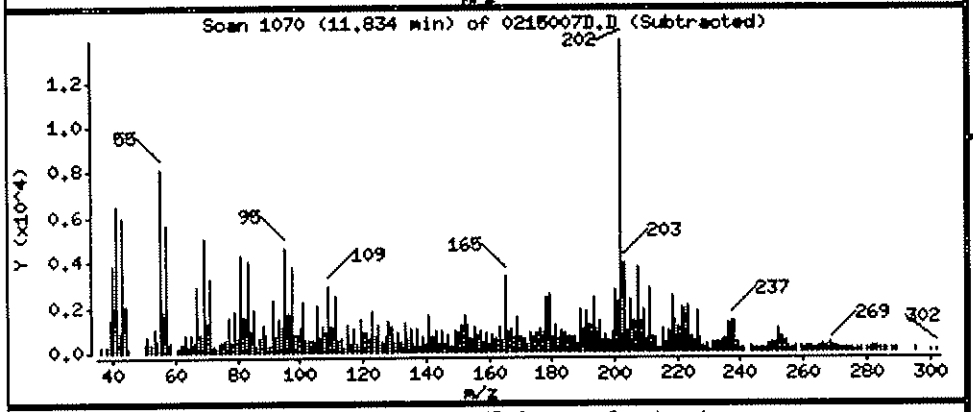
Column diameter: 0.25

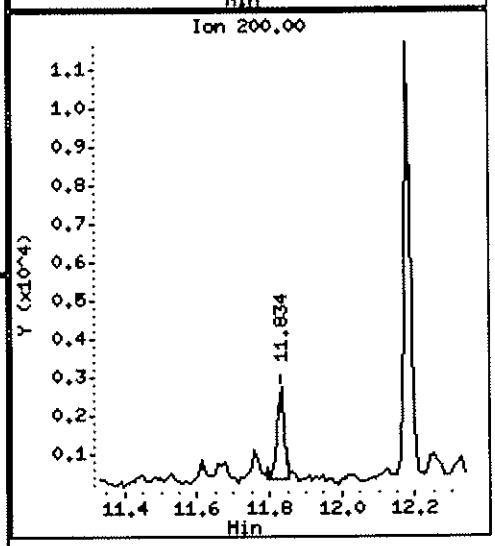
116 Fluoranthene

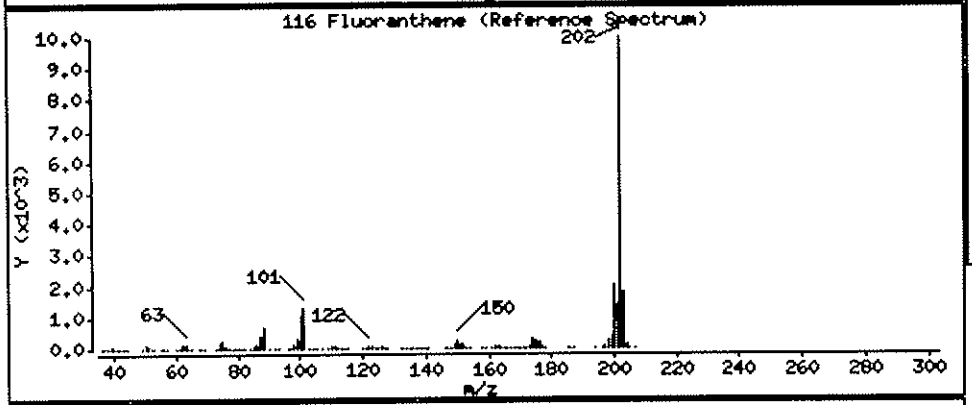
Concentration: 670.1 ug/Kg

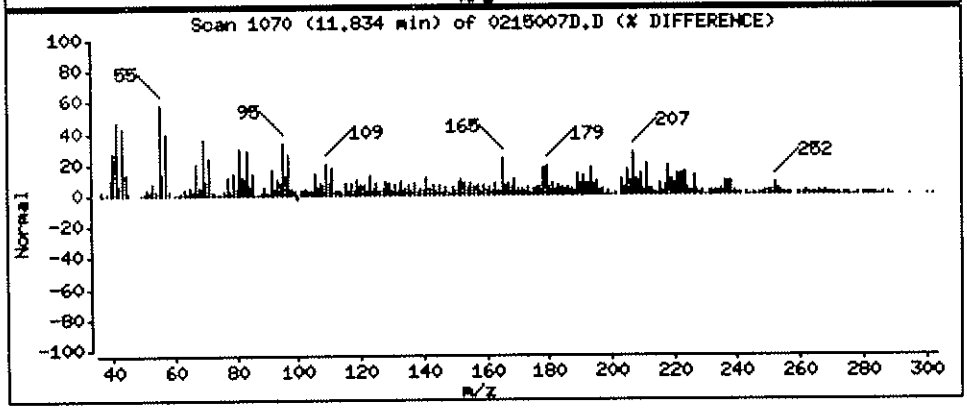












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Date : 25-FEB-2012 00:12

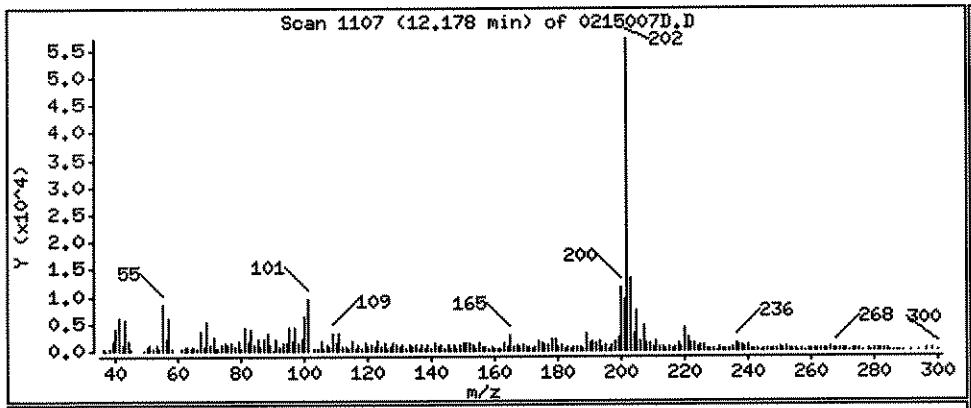
Client ID: FLC-4-P02-0204-0221 Instrument: bna4.i

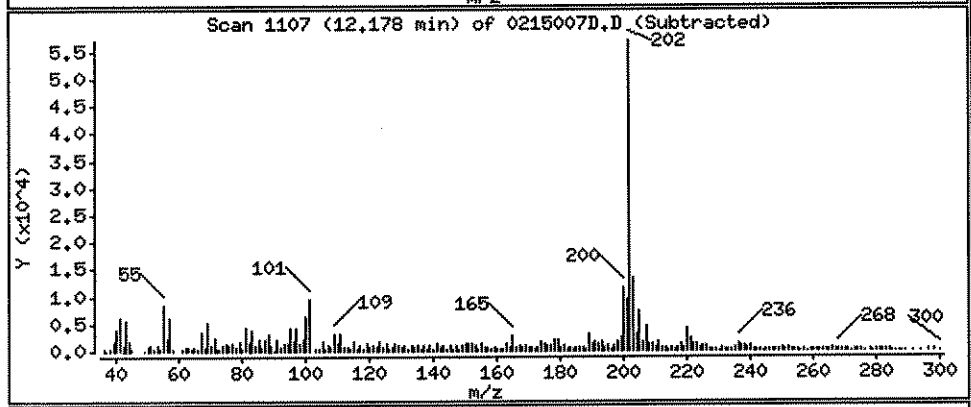
Sample Info: 1202150-07;50;15;1000;1;ug/Kg;22-FEB-2012

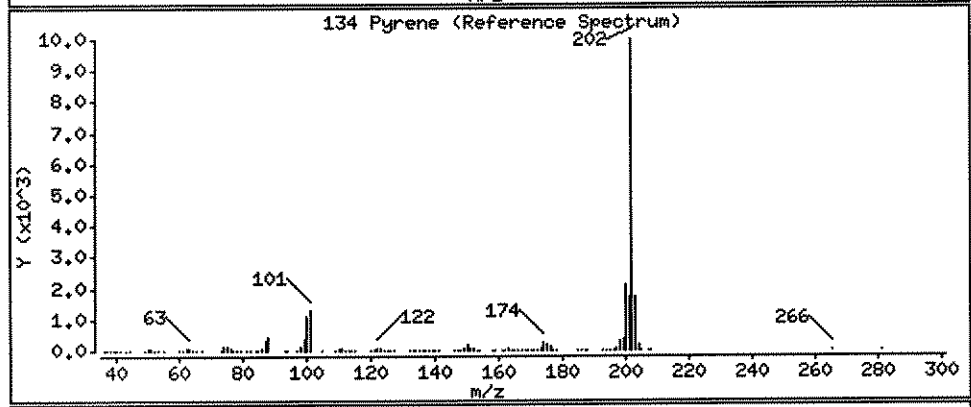
Volume Injected (uL): 1.0 Operator: MEC

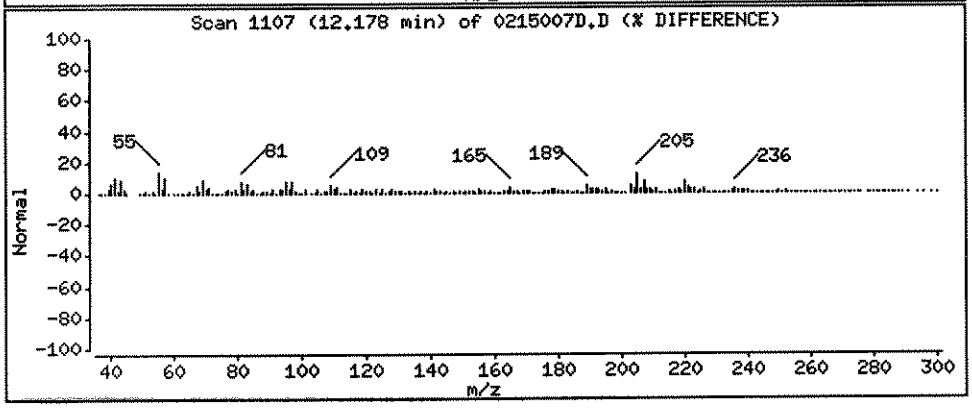
Column phase: fused silica Column diameter: 0.25

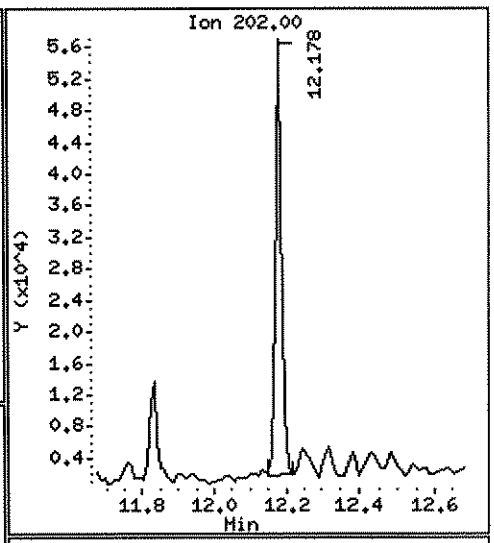
134 Pyrene Concentration: 2323 ug/Kg

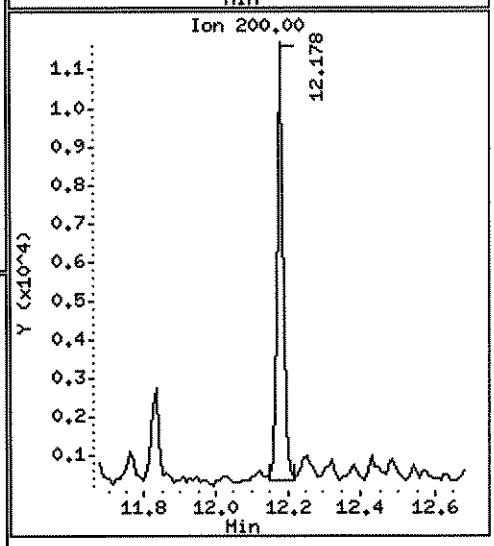












Data File: \\ELABNSH05\TARGET\chem\bna4.i\022412B4E.b\0215007D.D

Date : 25-FEB-2012 00:12

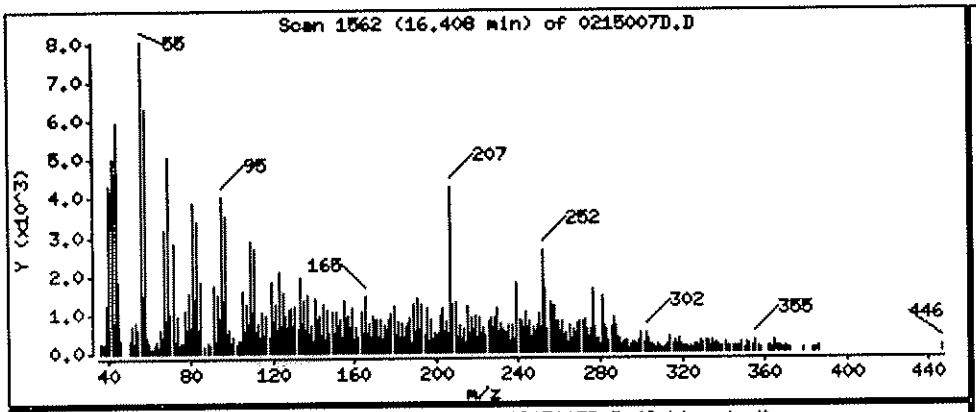
Client ID: FLC-4-P02-0204-0221 Instrument: bna4.i

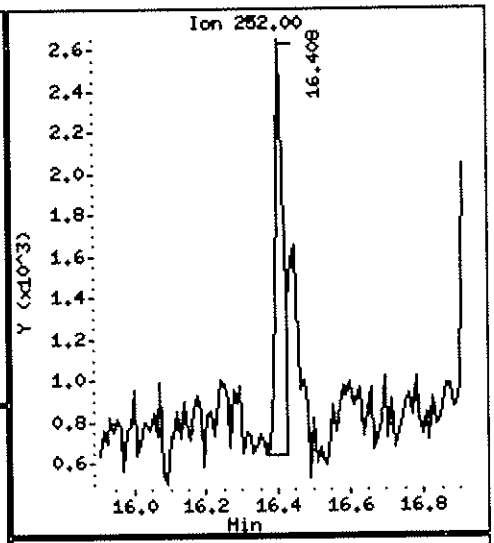
Sample Info: 1202150-07;50;15;1000;1;ug/Kg;22-FEB-2012

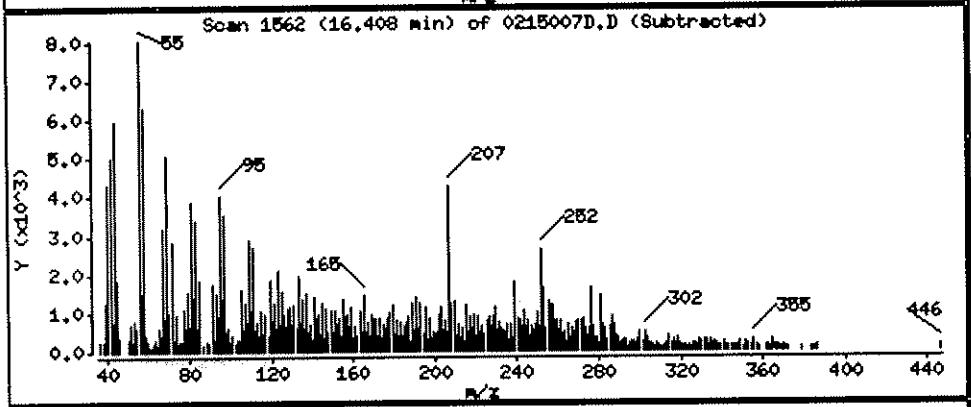
Volume Injected (uL): 1.0 Operator: MEC

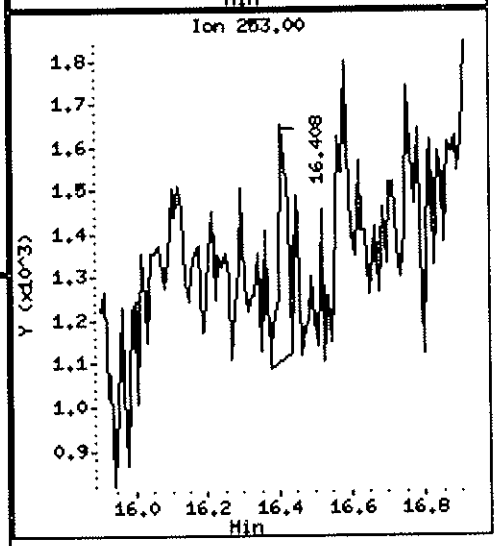
Column phase: fused silica Column diameter: 0.25

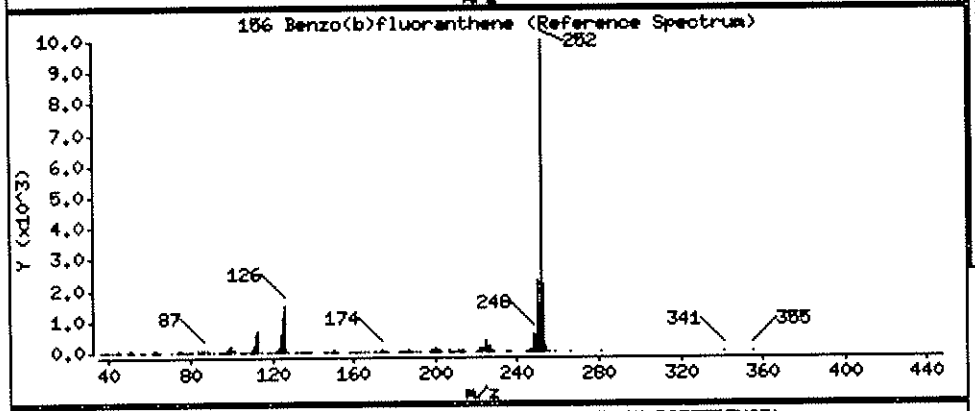
156 Benzo(b)fluoranthene Concentration: 155.5 ug/Kg

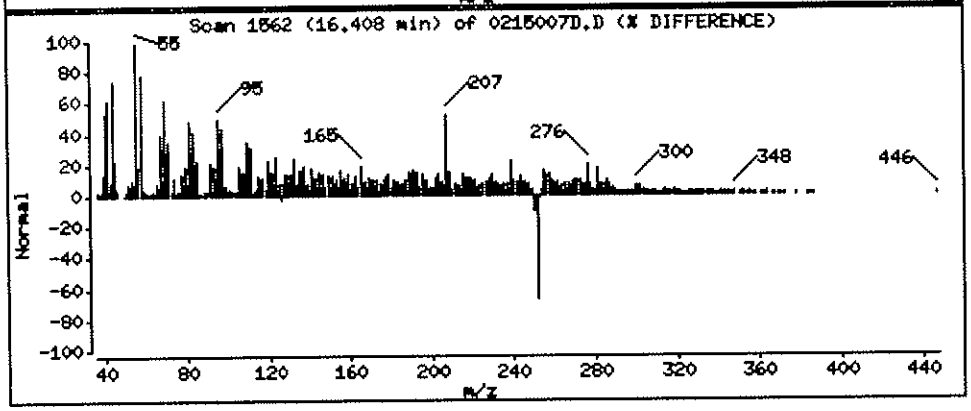












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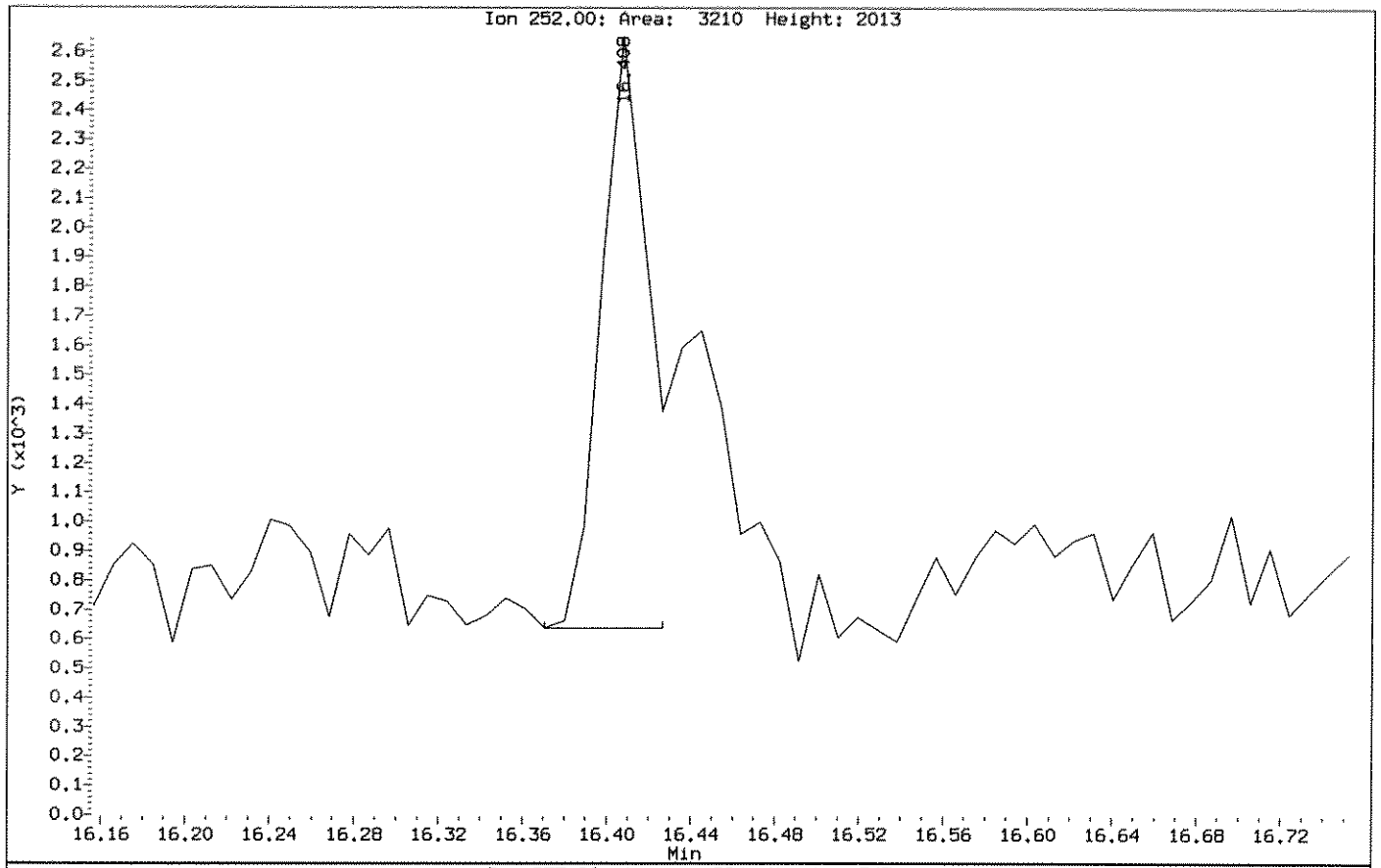
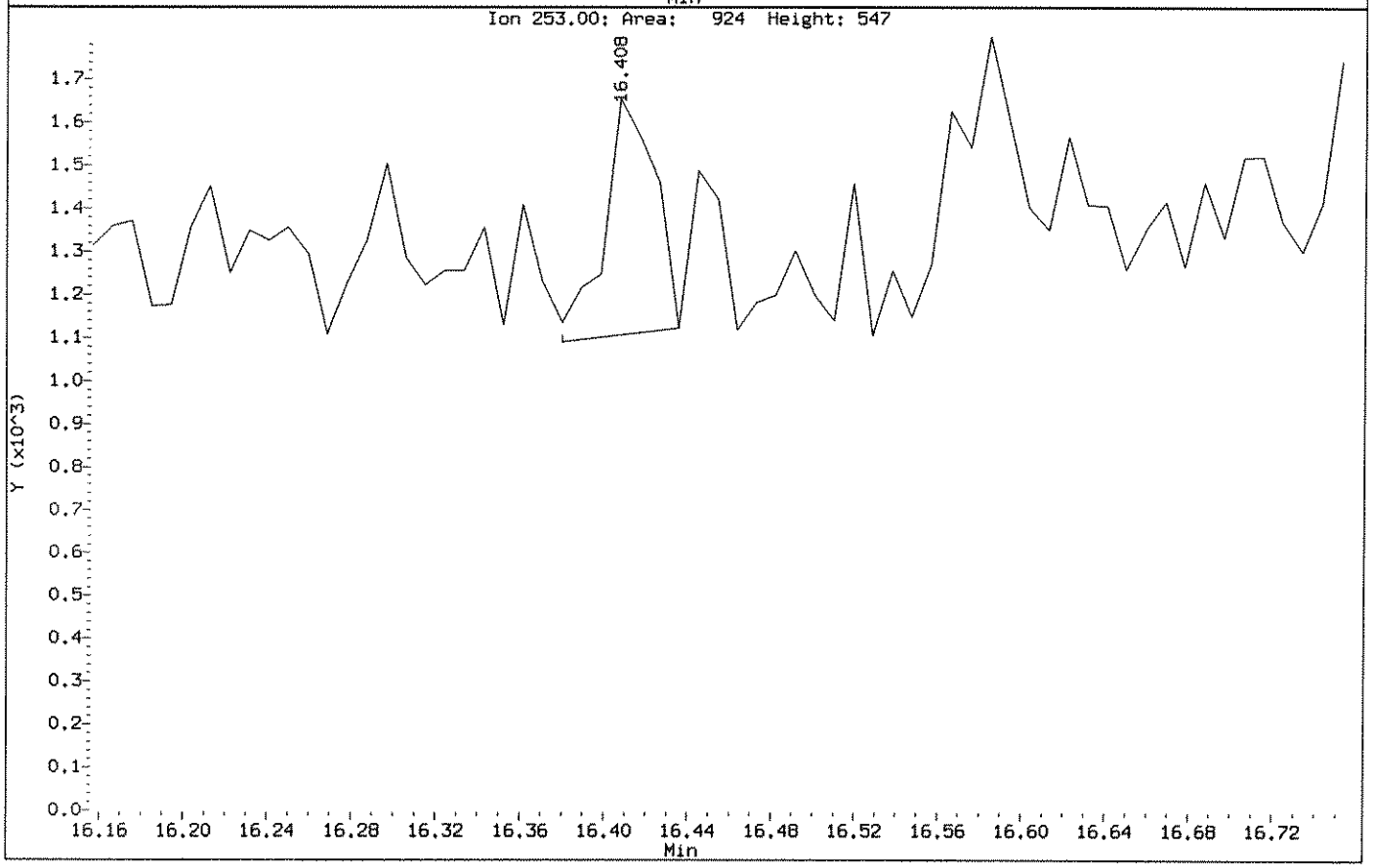
Injection Date: 25-FEB-2012 00:12
Instrument: bna4.i
Client Sample ID: FLC-4-PD2-0204-0221

Compound: Benzo(k)fluoranthene
CAS Number: 207-08-9





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Date : 25-FEB-2012 00:12

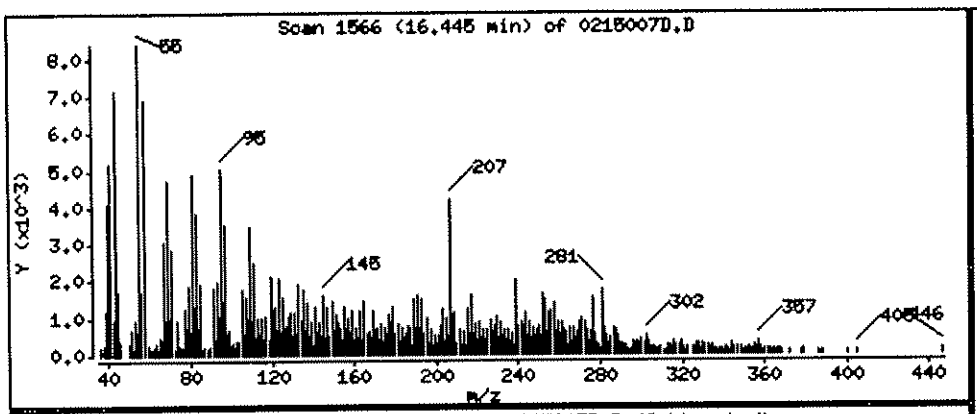
Client ID: FLC-4-P02-0204-0221 Instrument: bna4.i

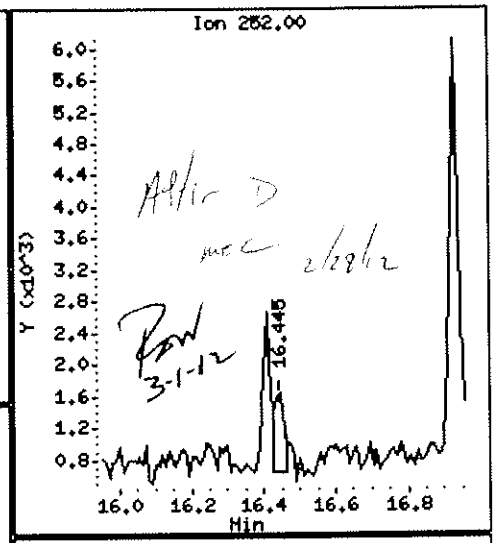
Sample Info: 1202150-07;50;15;1000;1;ug/Kg;22-FEB-2012

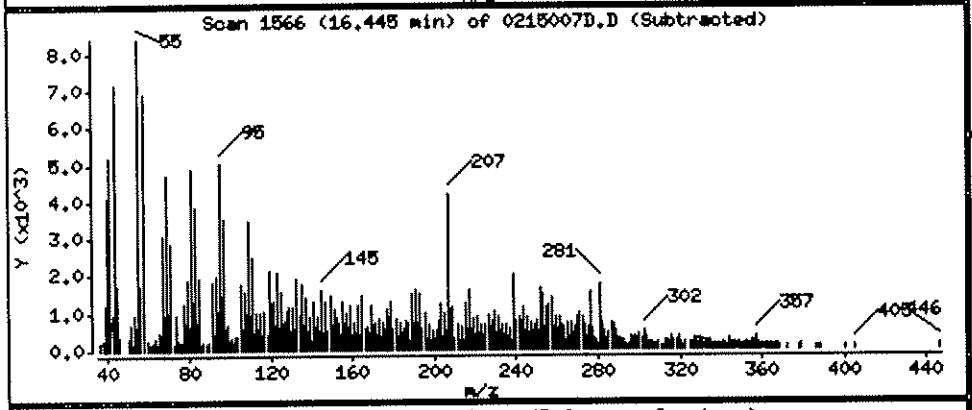
Volume Injected (uL): 1.0 Operator: MEC

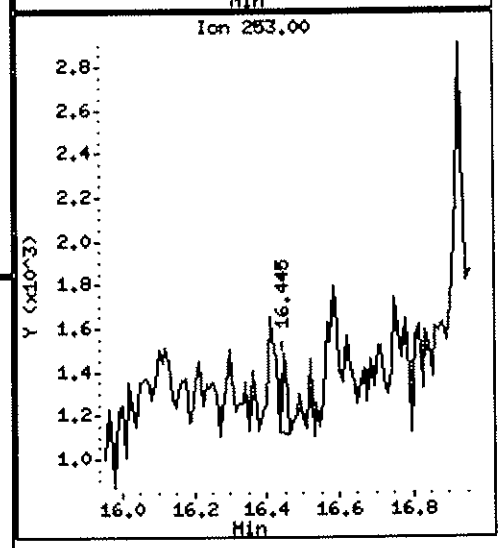
Column phase: fused silica Column diameter: 0.25

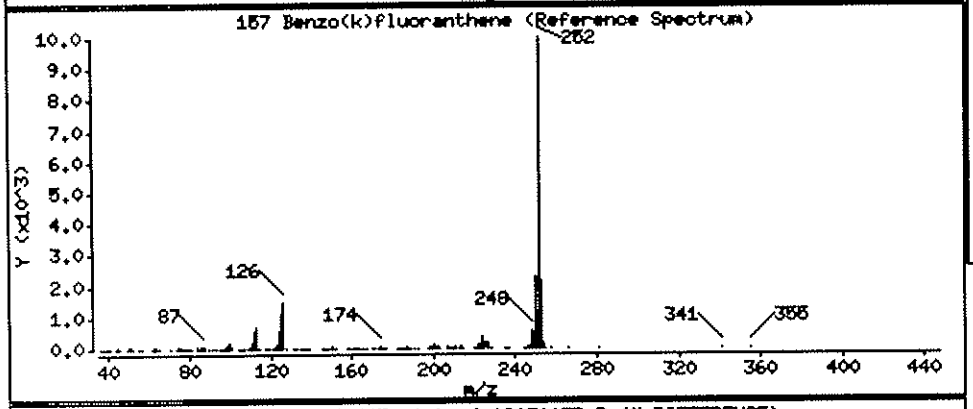
157 Benzo(k)fluoranthene Concentration: 103.7 ug/Kg

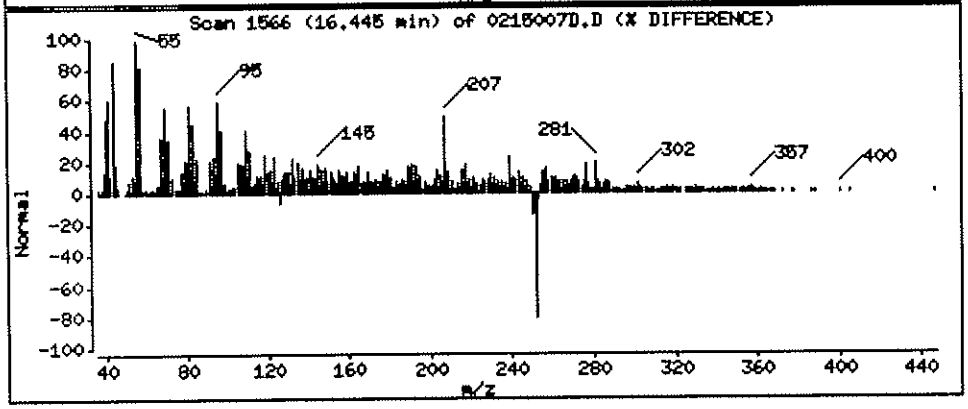






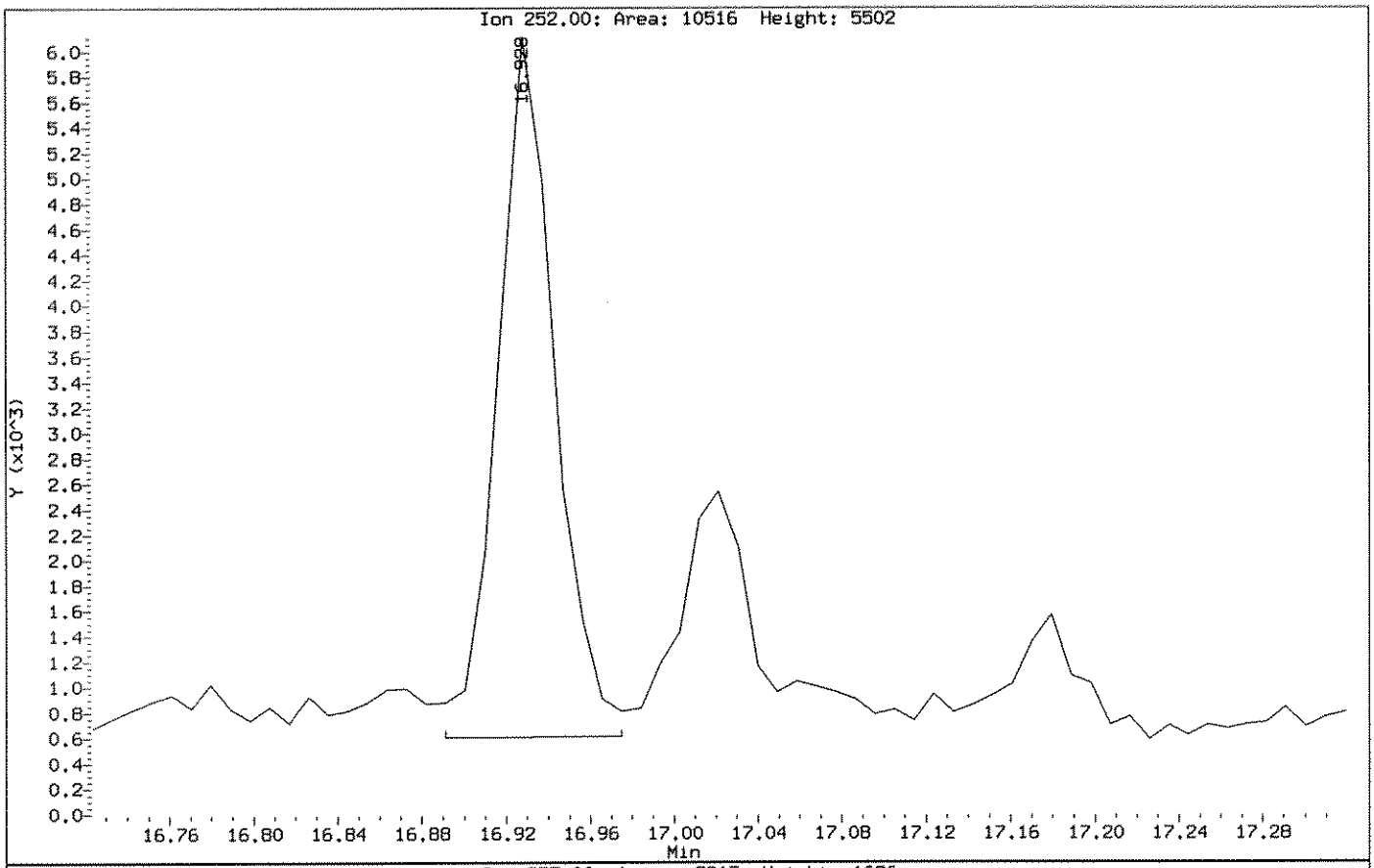


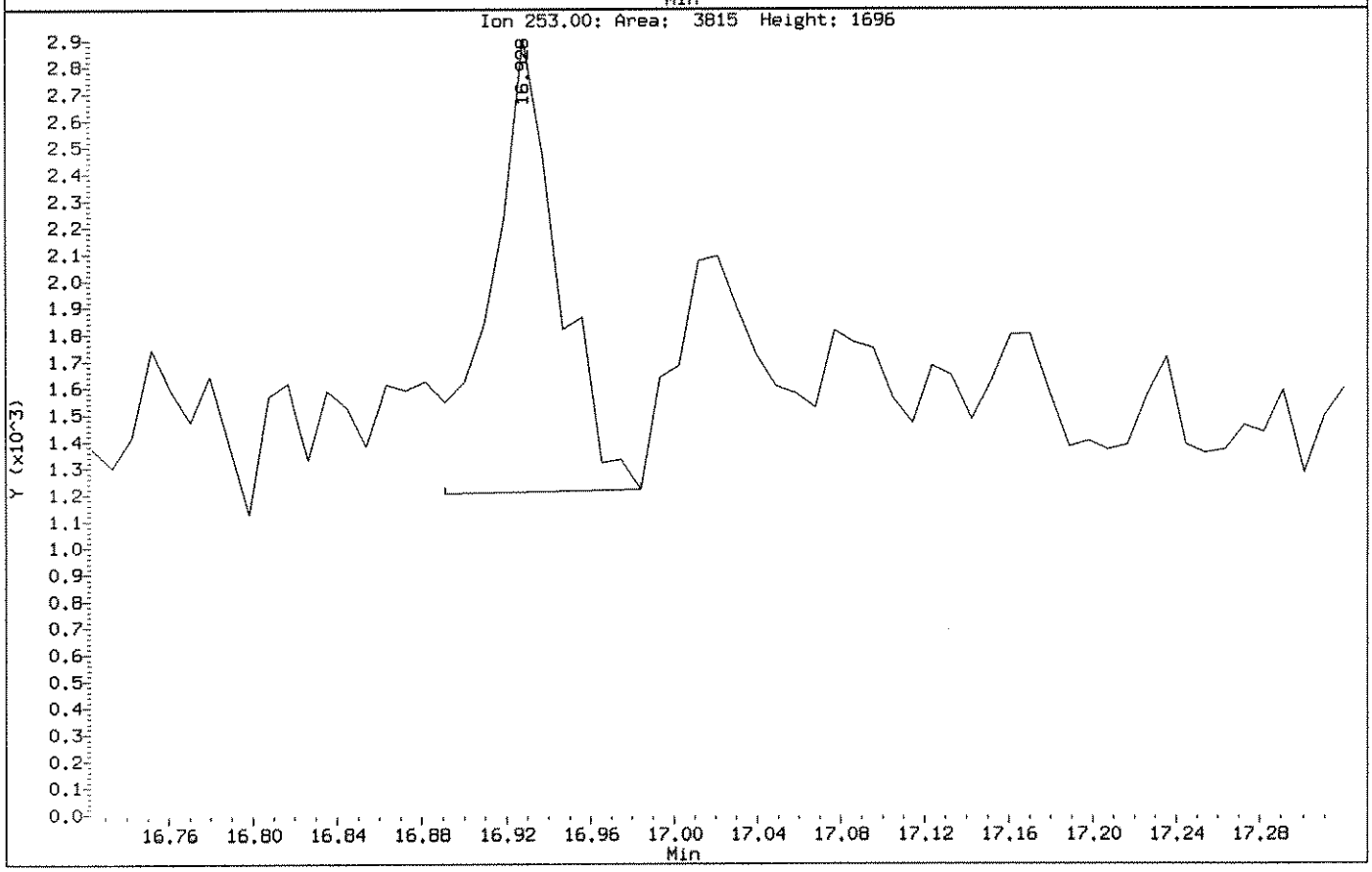




Data File: \\ELABNSHO5\TARGET\chem\bna4.i\022412B4E.b\0215007D.D
Injection Date: 25-FEB-2012 00:12
Instrument: bna4.i
Client Sample ID: FLC-4-P02-0204-0221

Compound: Benzo(a)pyrene
CAS Number: 50-32-8





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Date : 25-FEB-2012 00:12

Client ID: FLC-4-P02-0204-0221

Instrument: bna4.i

Sample Info: 1202150-07;50;15;1000;1;ug/Kg;22-FEB-2012

Volume Injected (uL): 1.0

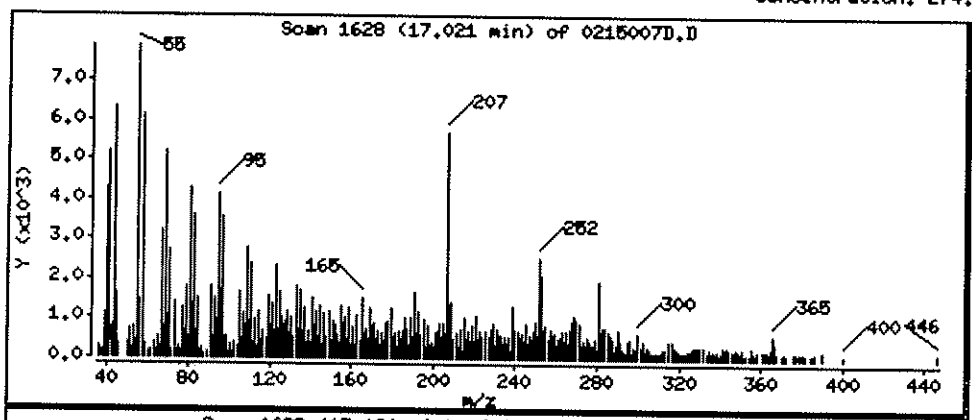
Operator: MEC

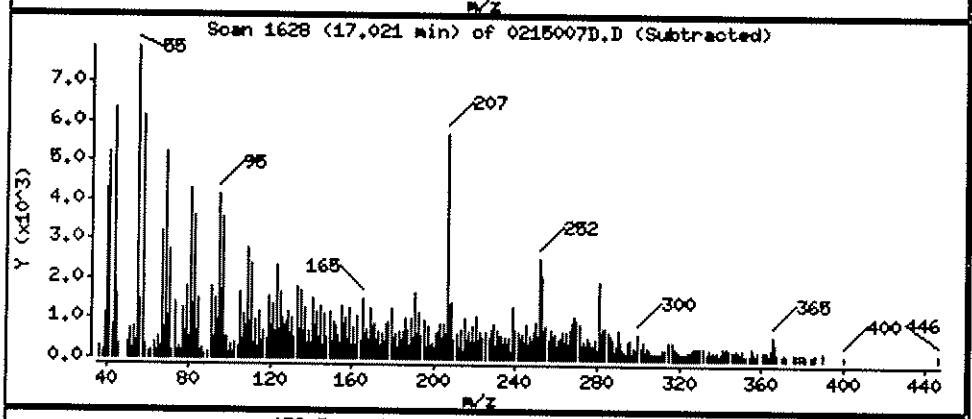
Column phase: fused silica

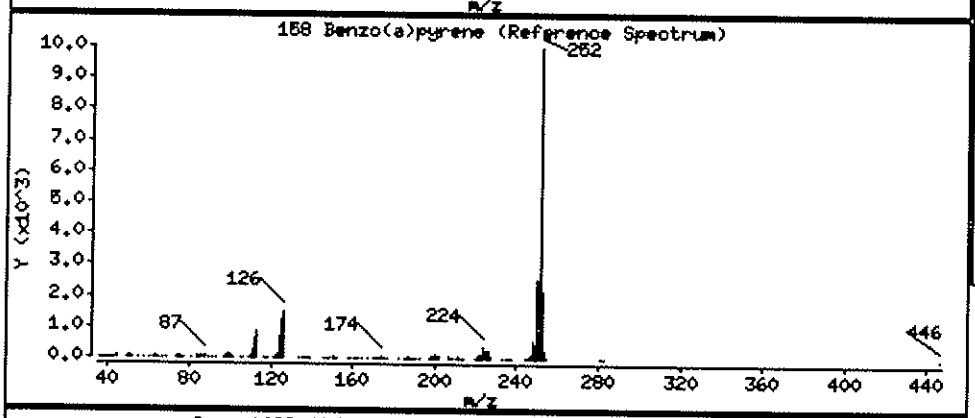
Column diameter: 0.25

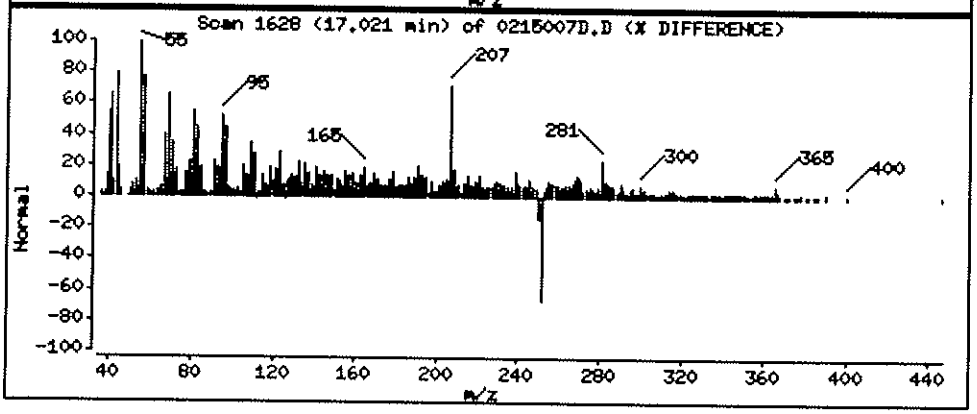
158 Benzo(a)pyrene

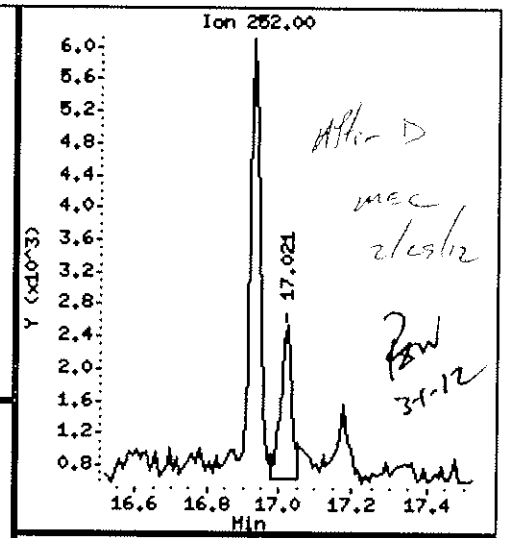
Concentration: 274.5 ug/Kg

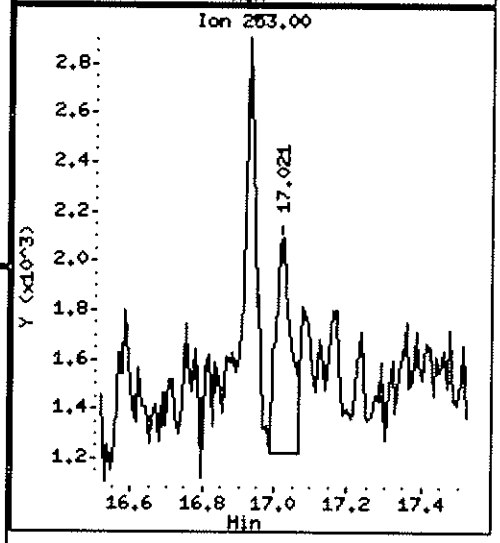












Data File: \\ELABNSHOS\TARGET\chem\bna4.i\022412B4E.b\0215007D.D

Date : 25-FEB-2012 00:12

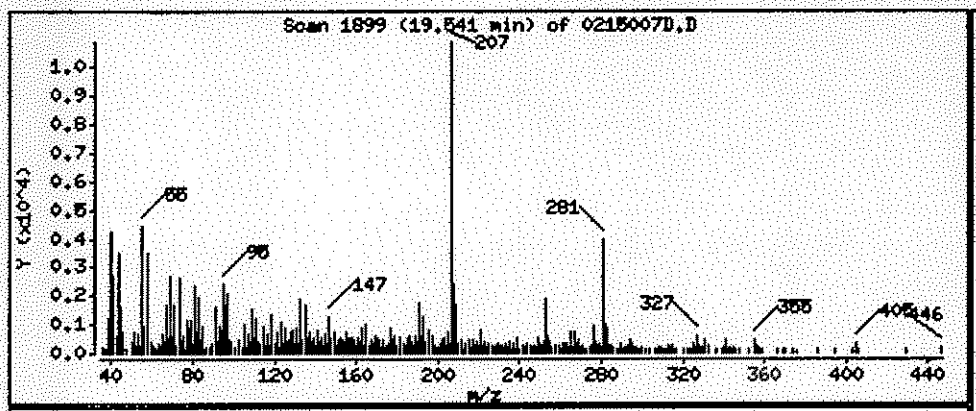
Client ID: FLC-4-P02-0204-0221 | Instrument: bna4.i

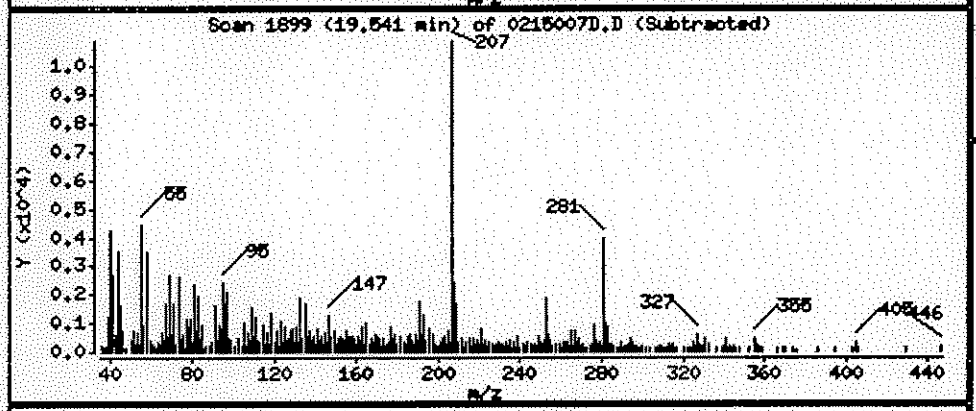
Sample Info: 1202150-07;50;15;1000;1;ug/Kg;22-FEB-2012

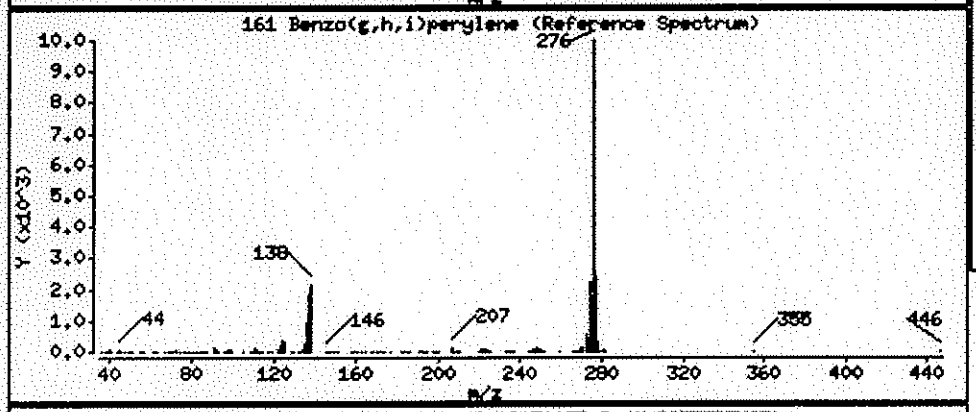
Volume Injected (uL): 1.0 | Operator: MEC

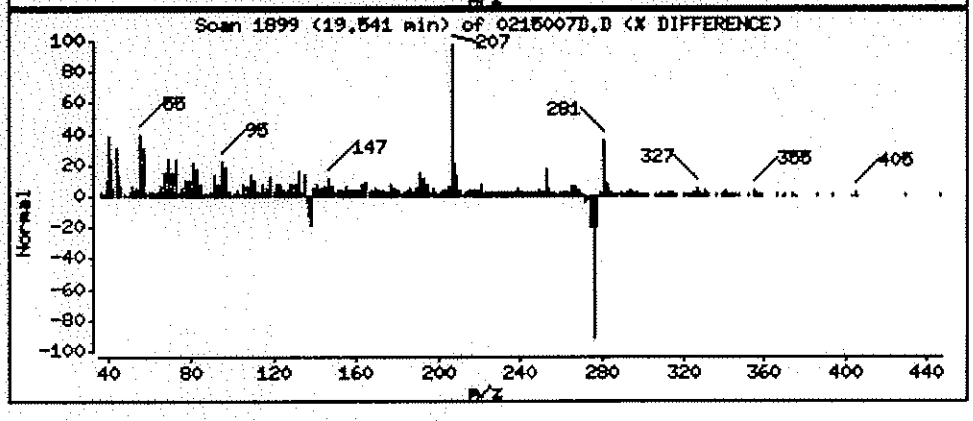
Column phase: fused silica | Column diameter: 0.25

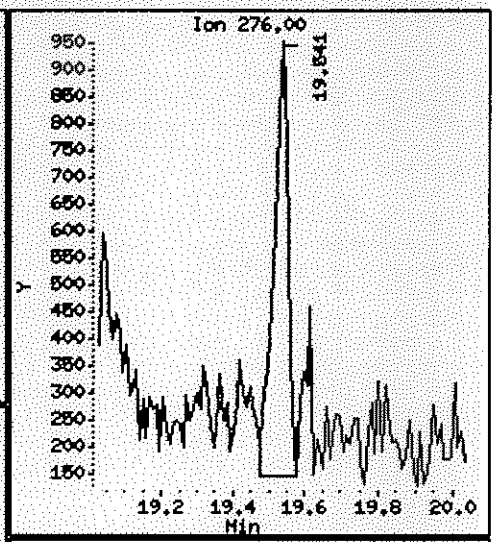
161 Benzo(g,h,i)perylene | Concentration: 201.3 ug/Kg

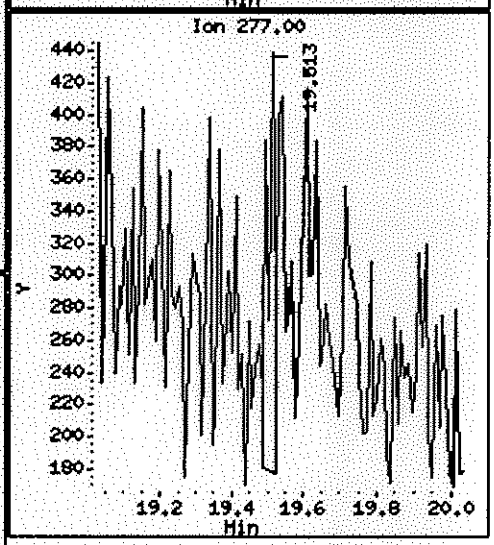












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Report Date: 29-Feb-2012 12:12

Laboratory Name

Data file : \\ELABNSH05\TARGET\chem\bna4.i\022412B4E.b\0215008.D
Lab Smp Id: 1202150-08 Client Smp ID: FLC-4-PO3-0624-0221
Inj Date : 25-FEB-2012 00:41 MS Autotune Date: 15-FEB-2012 09:23
Operator : MEC Inst ID: bna4.i
Smp Info : 1202150-08;1;15;1000;1;ug/Kg;22-FEB-2012
Misc Info : ;0;;;;2B22014;pahlow.sub;
Comment :
Method : \\ELABNSH05\TARGET\chem\bna4.i\022412B4E.b\IXBN4LOW.m
Meth Date : 29-Feb-2012 12:10 mcobb Quant Type: ISTD
Cal Date : 20-FEB-2012 16:29 Cal File: SEQ-CAL1.D
Als bottle: 30
Dil Factor: 1.00000
Integrator: HP RTE Compound Sublist: pahlow.sub
Target Version: 4.04
Processing Host: TARGET09_VM

Concentration Formula: Amt * DF * Uf * Vt*Vi/(Amt * Vi * (Solids/100))

Name	Value	Description
DF	1.000	Dilution Factor
Uf	1.000	ng unit correction factor
Vt	1000.000	Volume of final extract (uL)(1000 low, 2
Amt	15.000	Mass of initial extraction
Vi	1.000	Volume injected (uL)
Solids	100.000	Percent Solids

3-1-12

Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS ON-COLUMN (ng/ul)	FINAL (ug/Kg)
$ 74 2-Fluorobiphenyl	172	7.557	7.557	(0.741)	2606632	33.0397	2203
* 102 Phenanthrene-d10	188	10.197	10.197	(1.000)	98134	1.00000	
116 Fluoranthene	202	11.834	11.833	(1.160)	2481	0.02492	1.661(a)
134 Pyrene	202	12.178	12.177	(1.194)	2973	0.02899	1.932(a)
* 154 Perylene-d12	264	17.133	17.123	(1.000)	41865	1.00000	
$ 135 Terphenyl-d14	244	12.438	12.428	(1.220)	3111680	45.8812	3059
138 Benzo(a)anthracene	228	14.297	14.297	(1.402)	1479	0.02284	1.523(aM)
139 Chrysene	228	14.372	14.381	(1.409)	1974	0.03050	2.033(a)
158 Benzo(a)pyrene	252	17.012	17.021	(0.993)	1289	0.03276	2.184(a)

MEC
2/29/12

Data File: \\ELABNSH05\TARGET\chem\bna4.i\022412B4E.b\0215008.D
Report Date: 29-Feb-2012 12:12

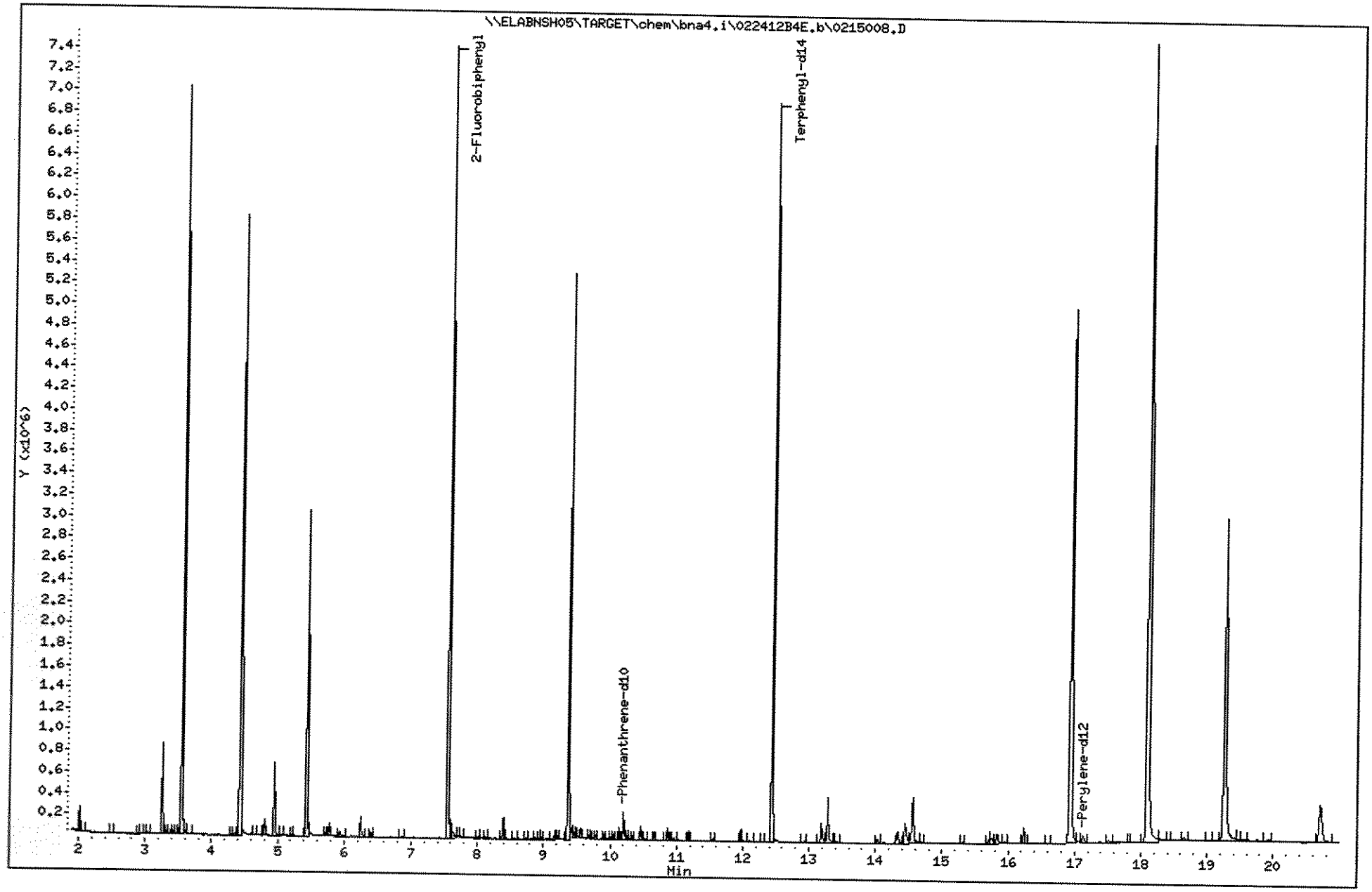
QC Flag Legend

a - Target compound detected but, quantitated amount
    Below Limit Of Quantitation(BLOQ).
M - Compound response manually integrated.

Data File: \\ELABNSH05\TARGET\chem\bna4.i\022412B4E.b\0215008.D
Date : 25-FEB-2012 00:41
Client ID: FLC-4-P03-0624-0221
Sample Info: 1202150-08;1;15;1000;1;ug/Kg;22-FEB-2012
Volume Injected (uL): 1.0
Column phase: fused silica

Instrument: bna4.i

Operator: MEC
Column diameter: 0.25



Data File: \\ELABNSH05\TARGET\chem\bna4.i\022412B4E.b\0215008.D

Date : 25-FEB-2012 00:41

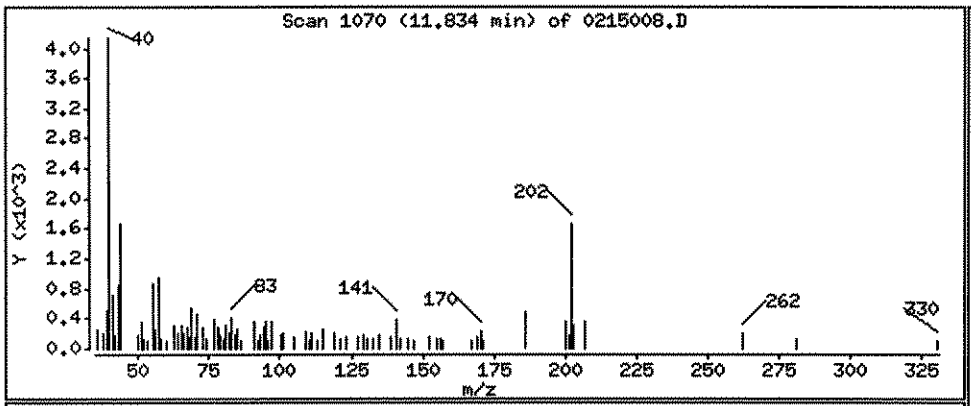
Client ID: FLC-4-P03-0624-0221 Instrument: bna4.i

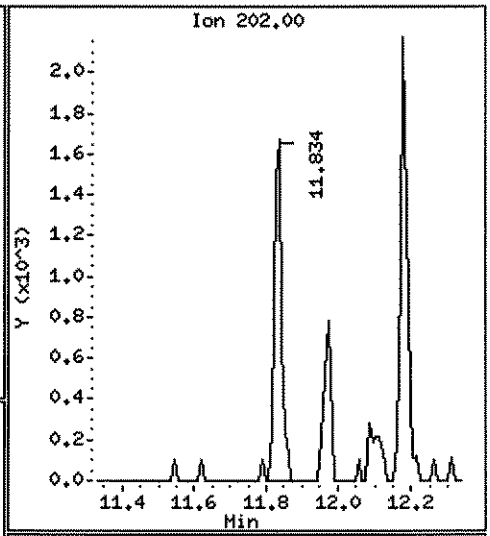
Sample Info: 1202150-08;1;15;1000;1;ug/Kg;22-FEB-2012

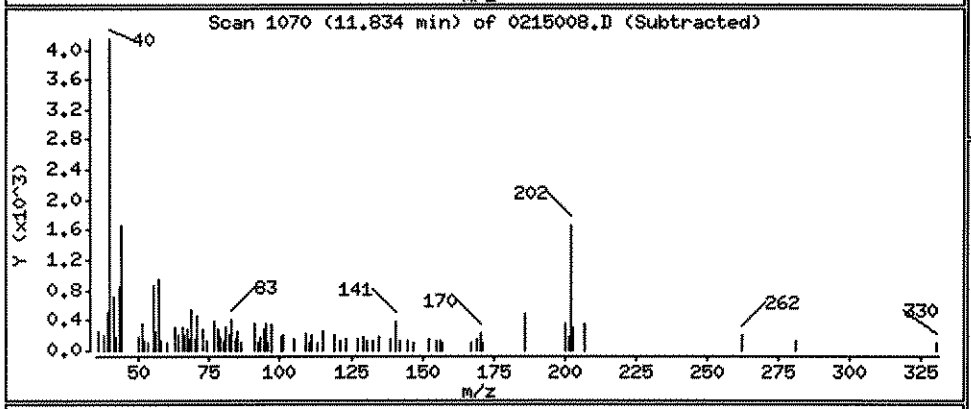
Volume Injected (uL): 1.0 Operator: MEC

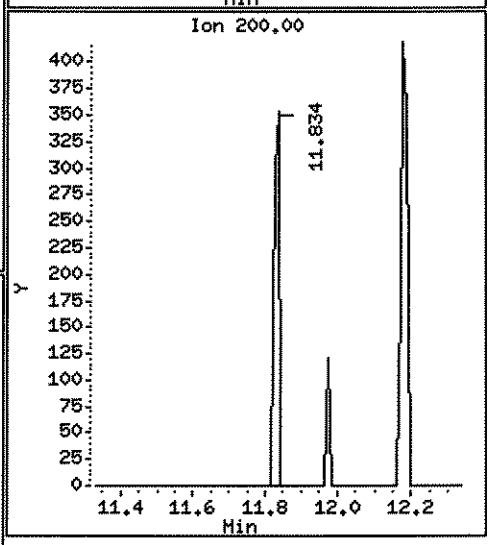
Column phase: fused silica Column diameter: 0.25

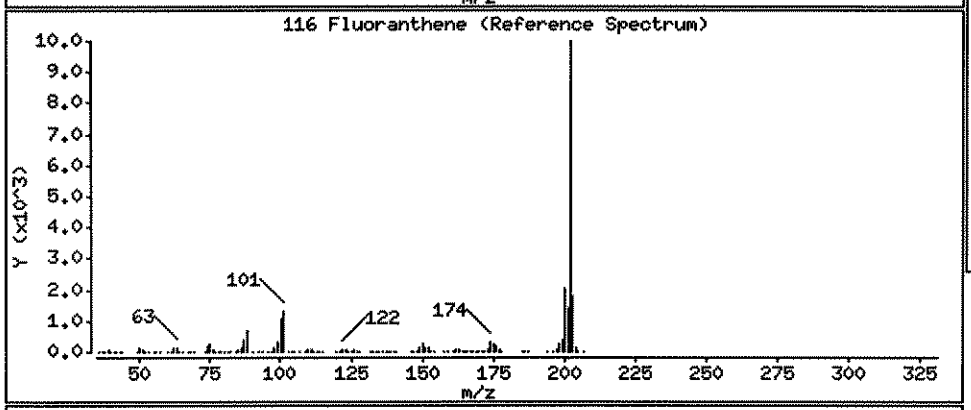
116 Fluoranthene Concentration: 1.661 ug/Kg

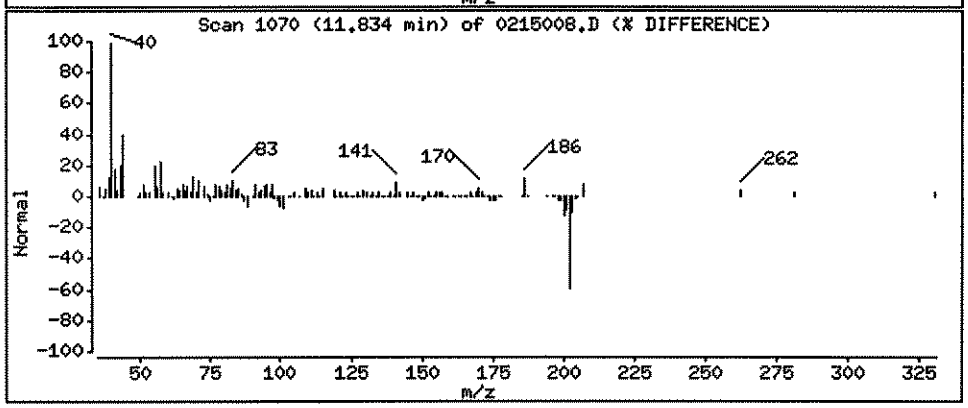












Data File: \\ELABNSH05\TARGET\chem\bna4.i\022412B4E.b\0215008.D

Date : 25-FEB-2012 00:41

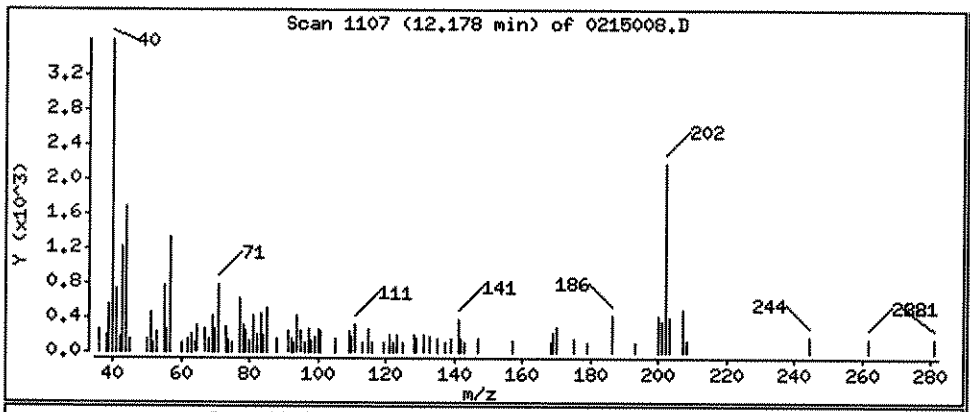
Client ID: FLC-4-P03-0624-0221 Instrument: bna4.i

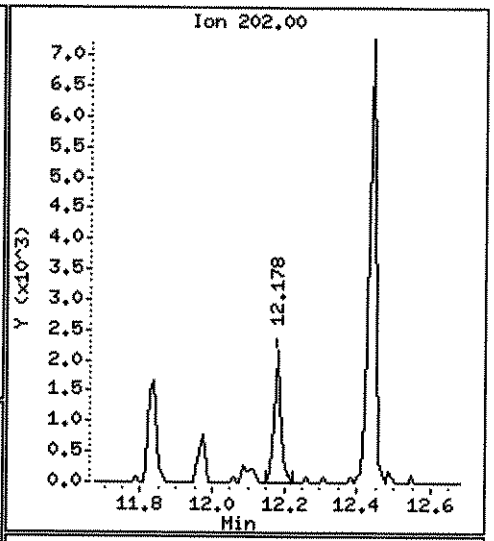
Sample Info: 1202150-08;1;15;1000;1;ug/Kg;22-FEB-2012

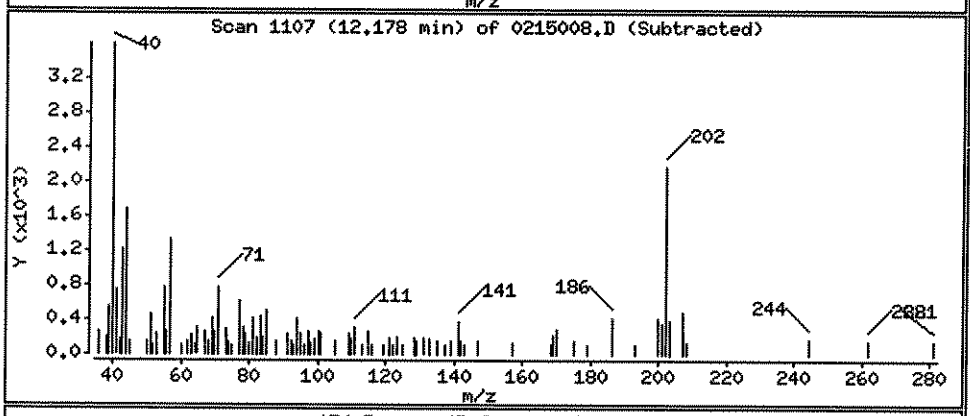
Volume Injected (uL): 1.0 Operator: MEC

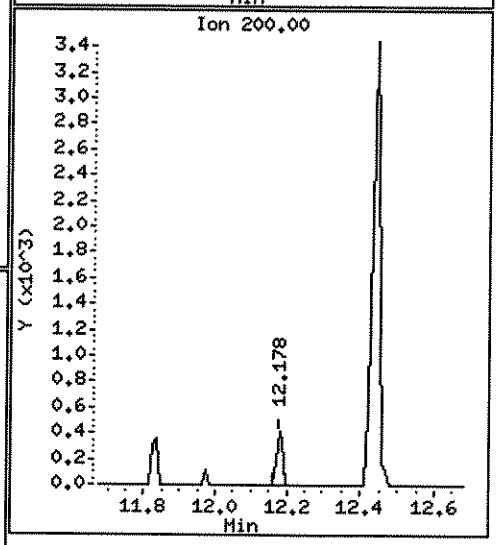
Column phase: fused silica Column diameter: 0.25

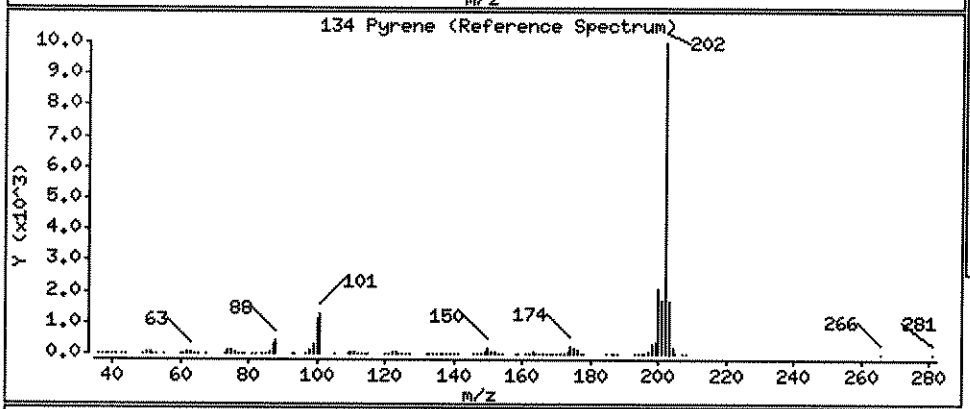
134 Pyrene Concentration: 1.932 ug/Kg

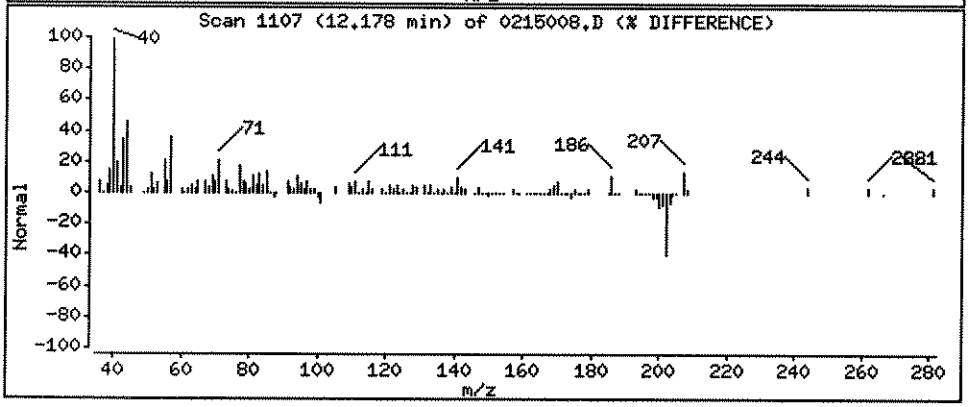












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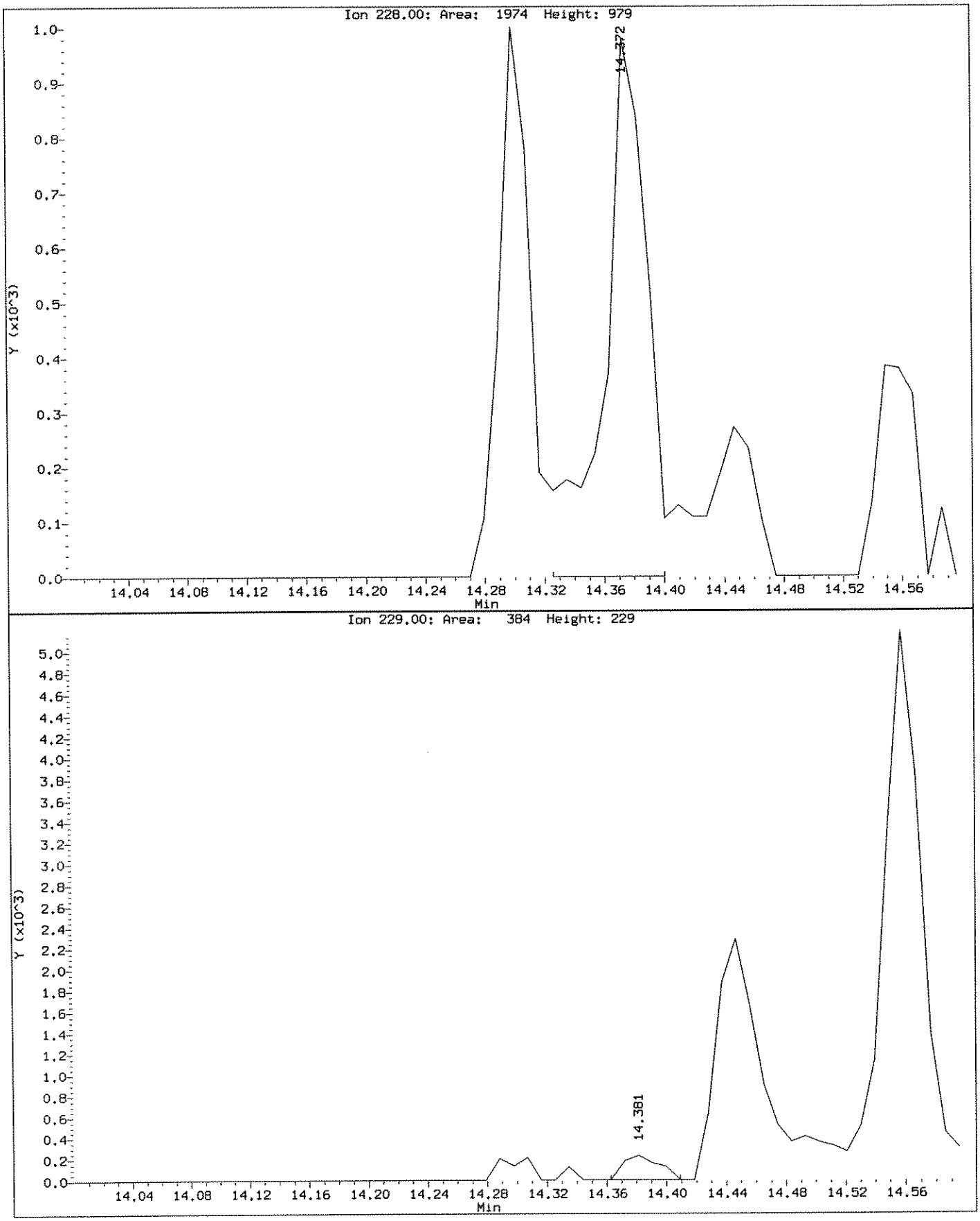
Injection Date: 25-FEB-2012 00:41
Instrument: bna4.i
Client Sample ID: FLC-4-P03-0624-0221

Compound: Benzo(a)anthracene
CAS Number: 56-55-3



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Date : 25-FEB-2012 00:41

Client ID: FLC-4-P03-0624-0221

Instrument: bna4.i

Sample Info: 1202150-08;1;15;1000;1;ug/Kg;22-FEB-2012

Volume Injected (uL): 1.0

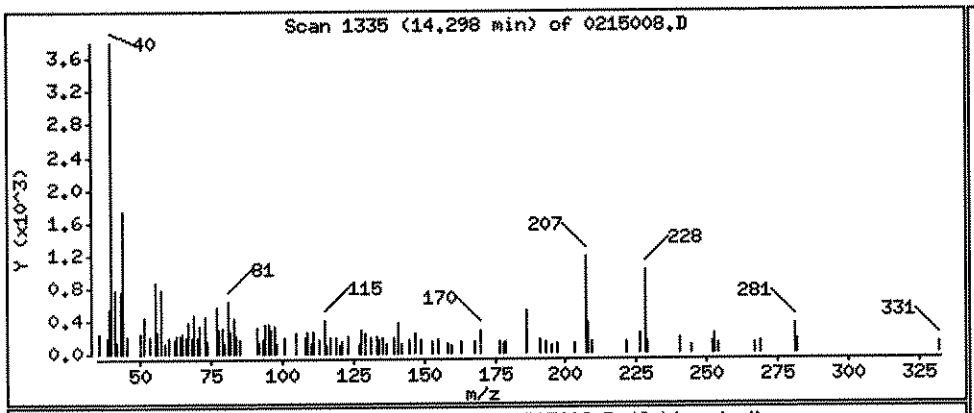
Operator: MEC

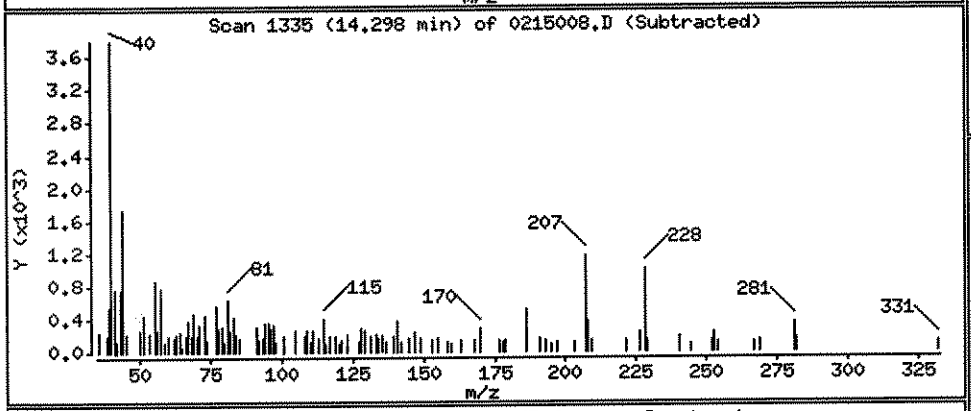
Column phase: fused silica

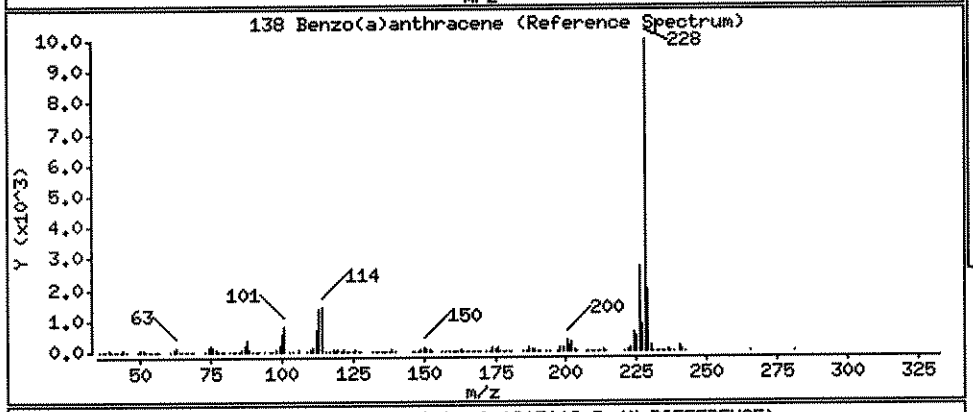
Column diameter: 0.25

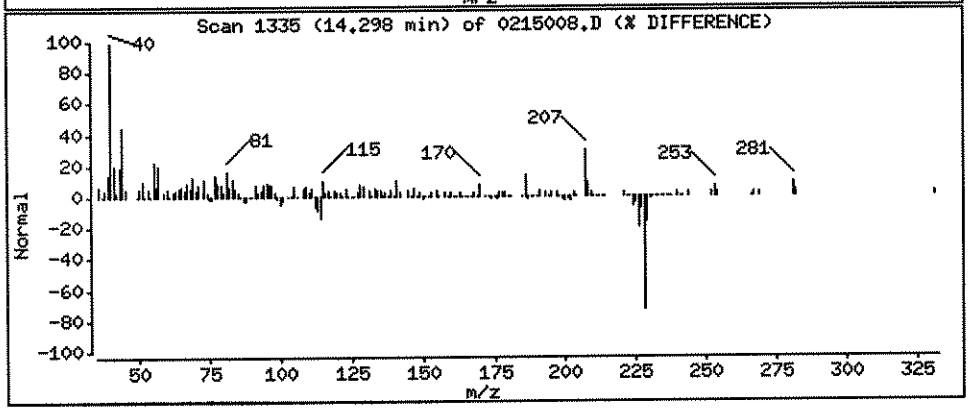
138 Benzo(a)anthracene

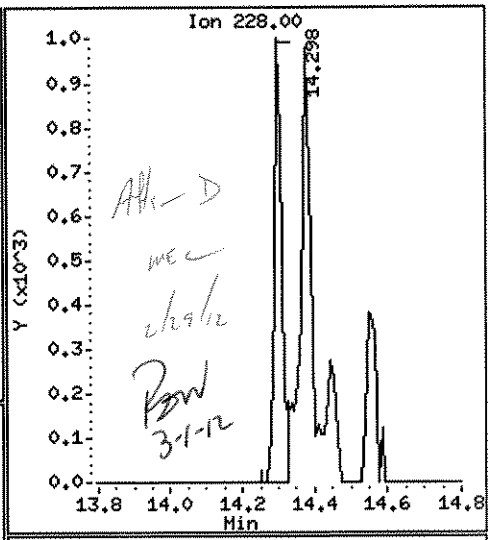
Concentration: 1.523 ug/Kg

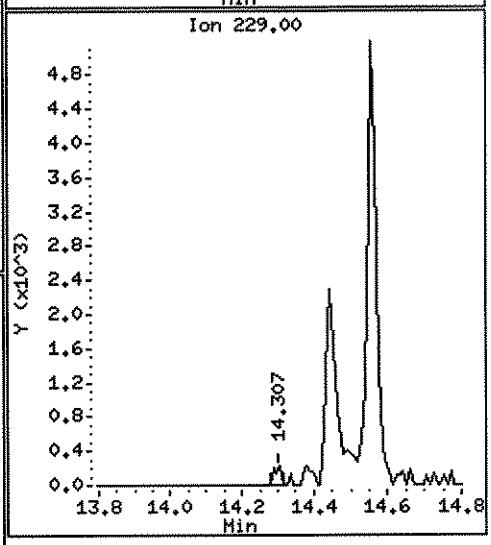












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Date : 25-FEB-2012 00:41

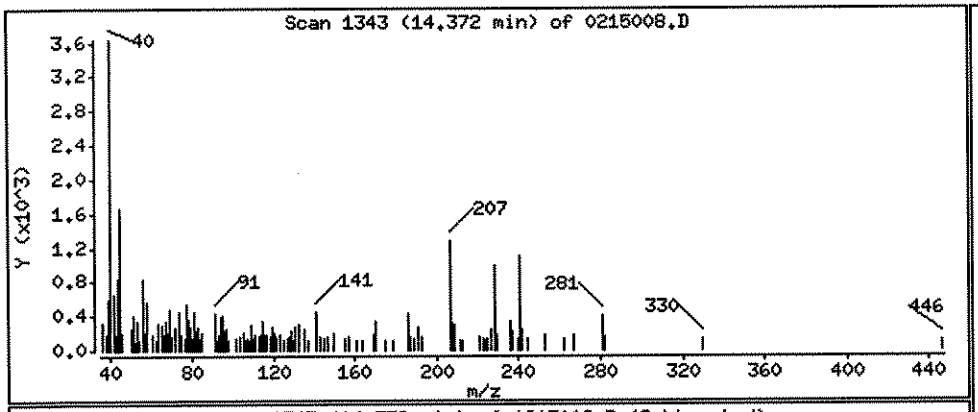
Client ID: FLC-4-P03-0624-0221 Instrument: bna4.i

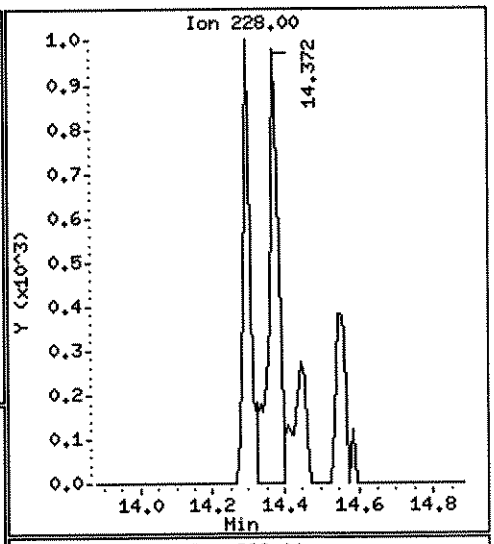
Sample Info: 1202150-08;1;15;1000;1;ug/Kg;22-FEB-2012

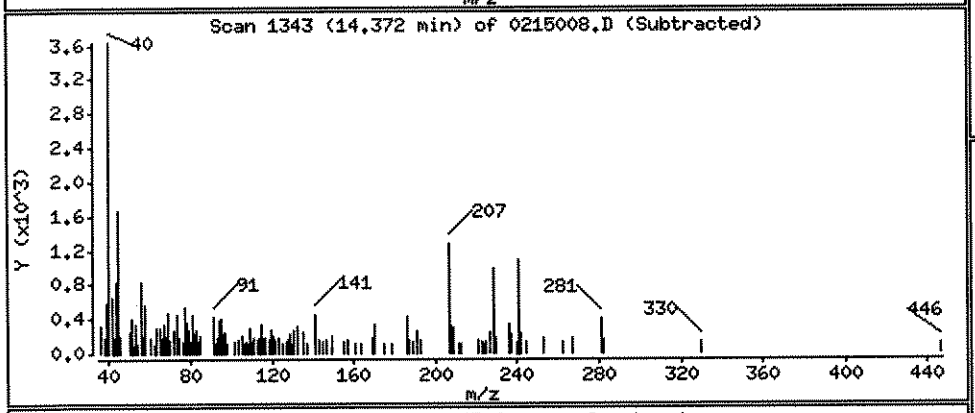
Volume Injected (uL): 1.0 Operator: MEC

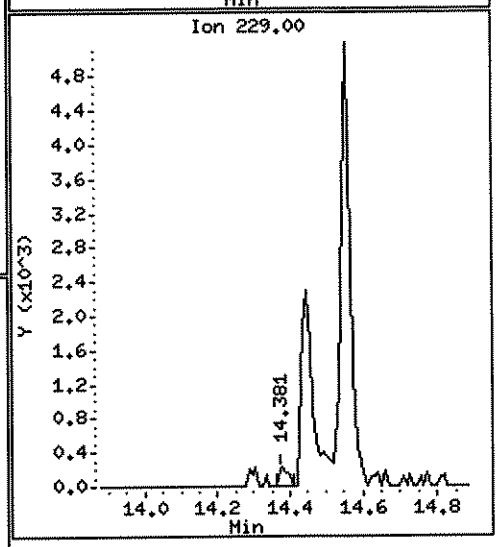
Column phase: fused silica Column diameter: 0.25

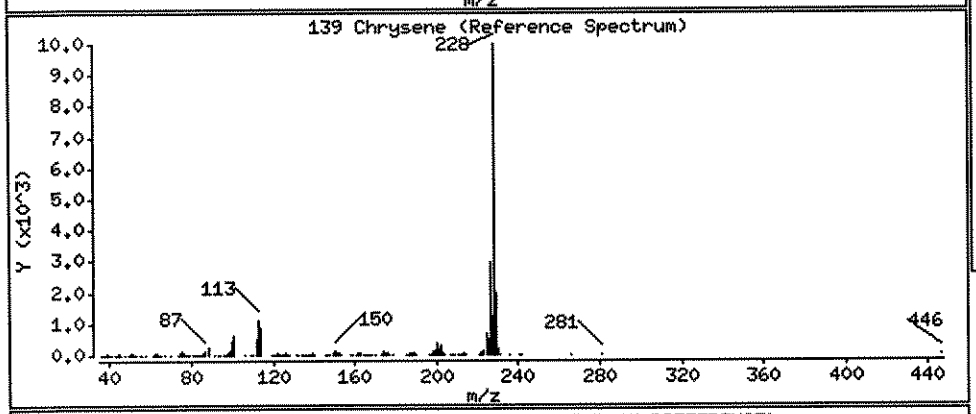
139 Chrysene Concentration: 2.033 ug/Kg

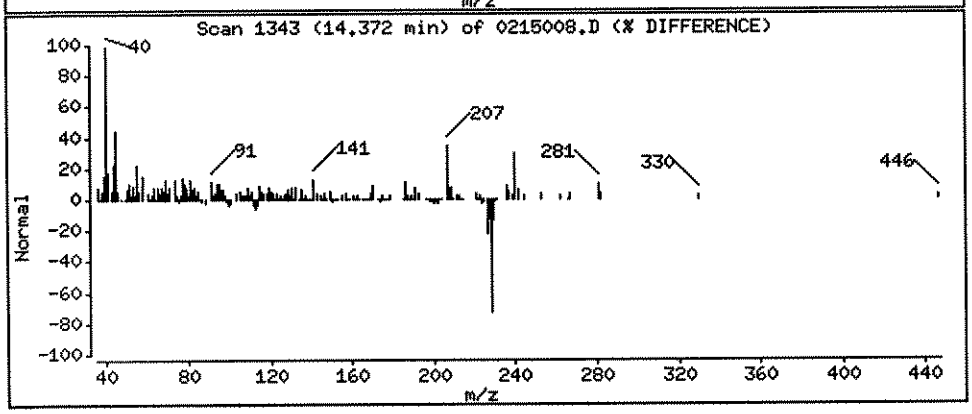












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Date : 25-FEB-2012 00:41

Client ID: FLC-4-P03-0624-0221

Instrument: bna4.i

Sample Info: 1202150-08;1;15;1000;1;ug/Kg;22-FEB-2012

Volume Injected (uL): 1.0

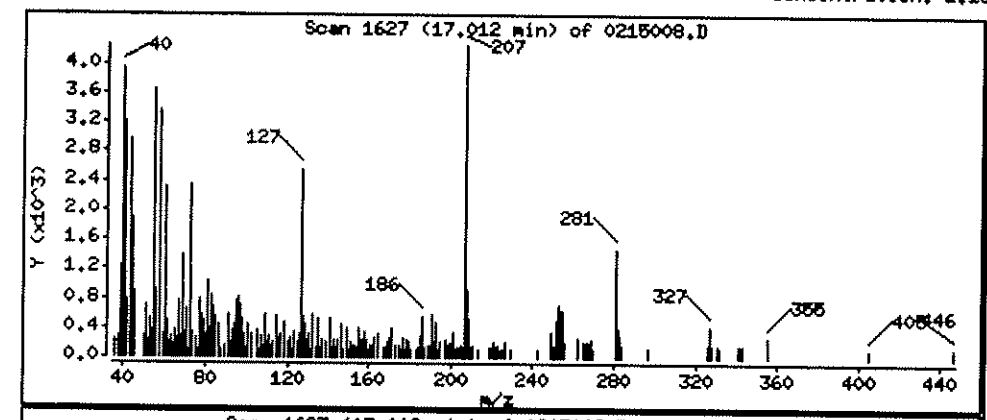
Operator: MEC

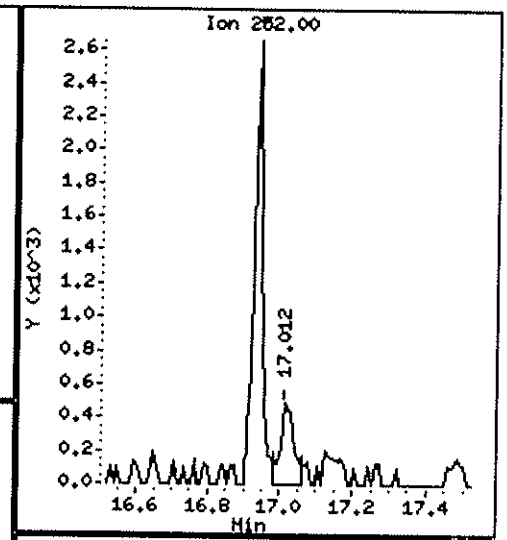
Column phase: fused silica

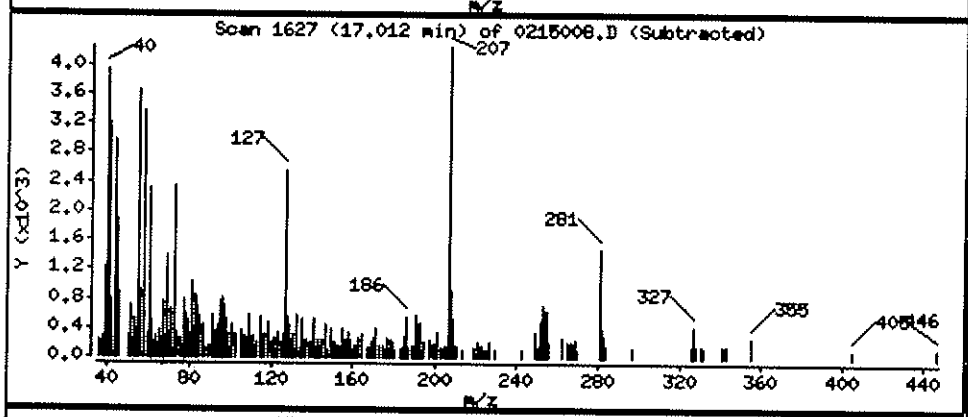
Column diameter: 0.25

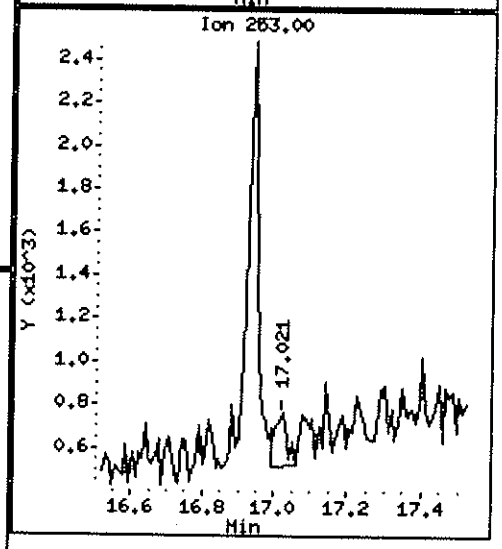
158 Benzo(a)pyrene

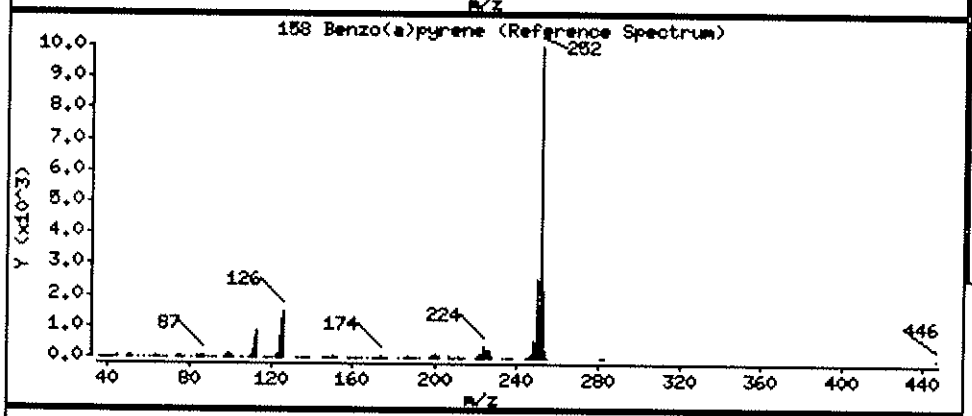
Concentration: 2.184 ug/Kg

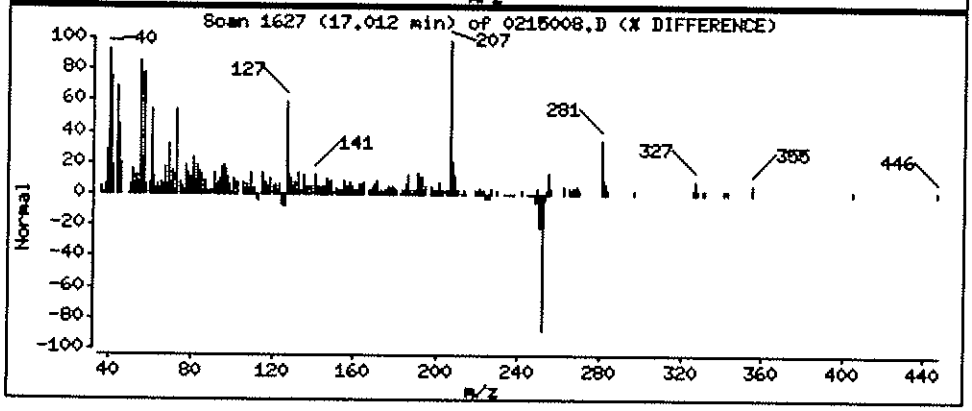












Data File: \\ELABNSH05\TARGET\chem\bna4.i\022412B4E.b\0215009.D
Report Date: 29-Feb-2012 12:12

Laboratory Name

Data file : \\ELABNSH05\TARGET\chem\bna4.i\022412B4E.b\0215009.D
Lab Smp Id: 1202150-09 Client Smp ID: FLC-4-PO3-0204-0221
Inj Date : 25-FEB-2012 01:09 MS Autotune Date: 15-FEB-2012 09:23
Operator : MEC Inst ID: bna4.i
Smp Info : 1202150-09;1;15;1000;1;ug/Kg;22-FEB-2012
Misc Info : ;0;;;;2B22014;pahlow.sub;
Comment :
Method : \\ELABNSH05\TARGET\chem\bna4.i\022412B4E.b\IXBN4LOW.m
Meth Date : 29-Feb-2012 12:10 mcobb Quant Type: ISTD
Cal Date : 20-FEB-2012 16:29 Cal File: SEQ-CAL1.D
Als bottle: 31
Dil Factor: 1.00000
Integrator: HP RTE Compound Sublist: pahlow.sub
Target Version: 4.04
Processing Host: TARGET09_VM

Concentration Formula: Amt * DF * Uf * Vt*Vi/(Amt * Vi * (Solids/100))

Name	Value	Description
DF	1.000	Dilution Factor
Uf	1.000	ng unit correction factor
Vt	1000.000	Volume of final extract (uL)(1000 low, 2
Amt	15.000	Mass of initial extraction
Vi	1.000	Volume injected (uL)
Solids	100.000	Percent Solids

3-1-12

Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS ON-COLUMN (ng/ul)	FINAL (ug/Kg)
$ 74 2-Fluorobiphenyl	172	7.557	7.557	(0.741)	3035405	35.3632	2358
* 102 Phenanthrene-d10	188	10.197	10.197	(1.000)	106768	1.00000	
111 Phenanthrene	178	10.225	10.225	(1.003)	3882	0.03682	2.454(a)
116 Fluoranthene	202	11.824	11.833	(1.160)	4521	0.04173	2.782(a)
134 Pyrene	202	12.177	12.177	(1.194)	3783	0.03390	2.260(a)
* 154 Perylene-d12	264	17.132	17.123	(1.000)	43496	1.00000	
$ 135 Terphenyl-d14	244	12.438	12.428	(1.220)	3465789	46.9700	3131

QC Flag Legend

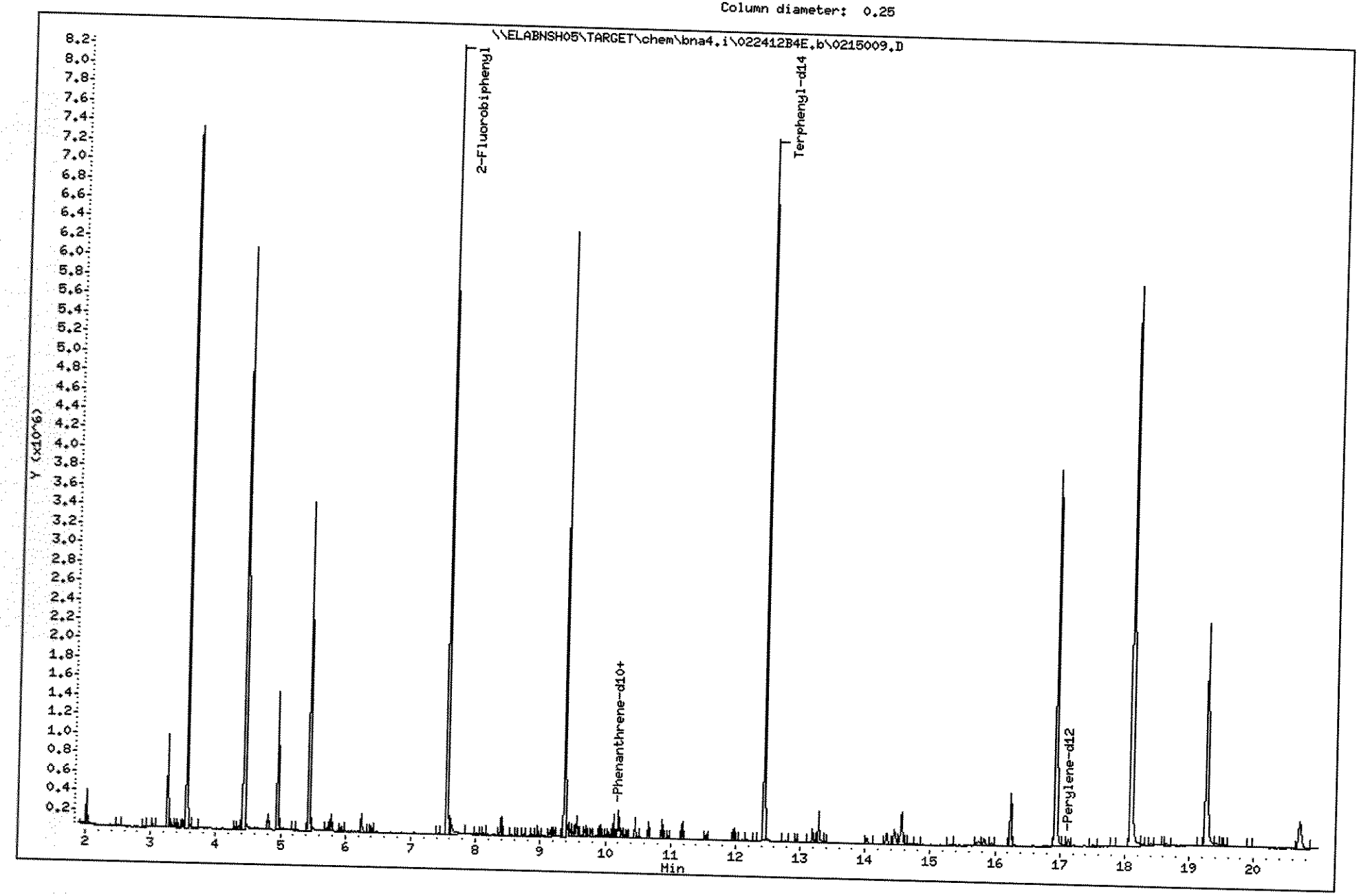
a - Target compound detected but, quantitated amount
Below Limit Of Quantitation(BLOQ).

MEC
2/29/12

Data File: \\ELABNSH05\TARGET\chem\bna4.i\022412B4E.b\0215009.D
Date : 25-FEB-2012 01:09
Client ID: FLC-4-P03-0204-0221
Sample Info: 1202150-09;1;15;1000;1;ug/Kg;22-FEB-2012
Volume Injected (uL): 1.0
Column phase: fused silica

Instrument: bna4.i

Operator: MEC
Column diameter: 0.25



Data File: \\ELABNSH05\TARGET\chem\bna4.i\022412B4E.b\0215009.D

Date : 25-FEB-2012 01:09

Client ID: FLC-4-P03-0204-0221

Instrument: bna4.i

Sample Info: 1202150-09;1;15;1000;1;ug/Kg;22-FEB-2012

Volume Injected (uL): 1.0

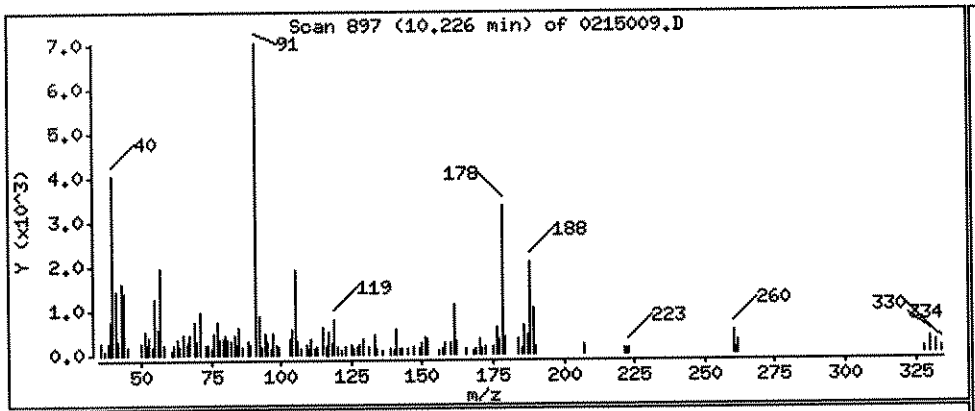
Operator: MEC

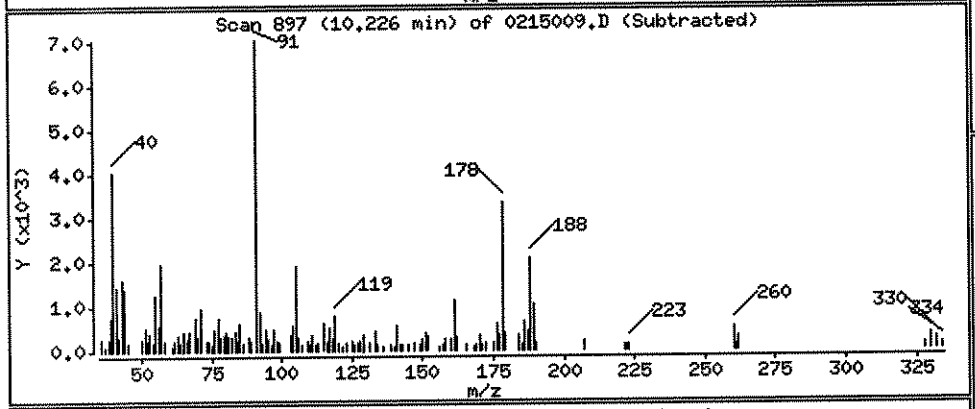
Column phase: fused silica

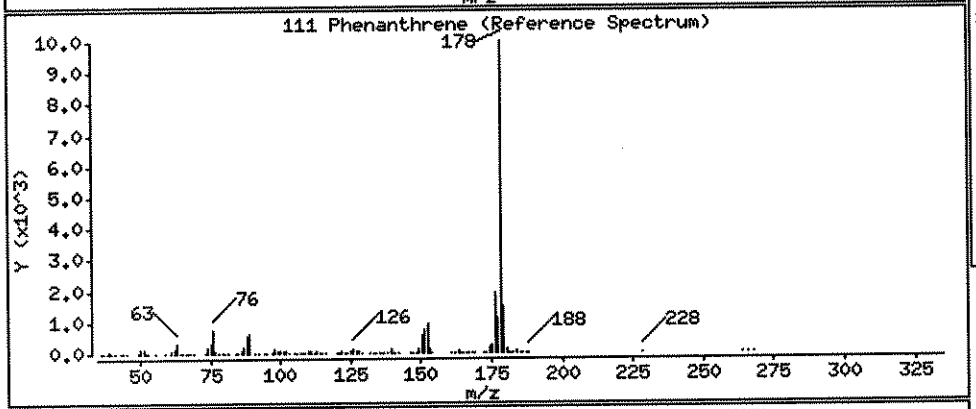
Column diameter: 0.25

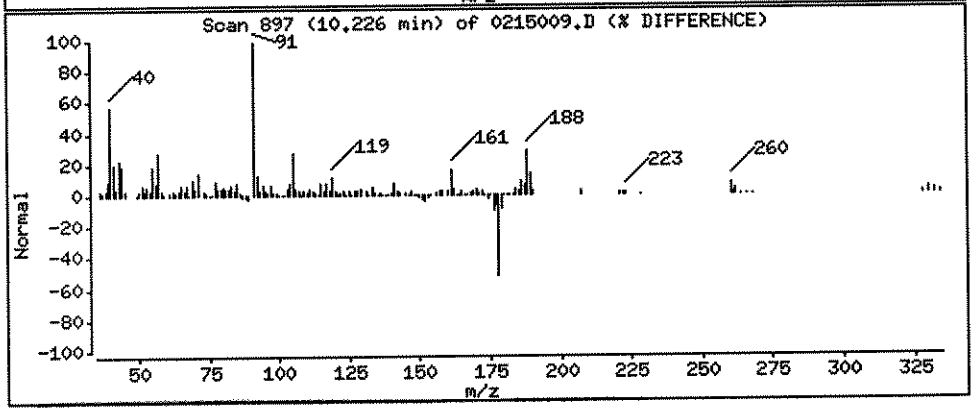
111 Phenanthrene

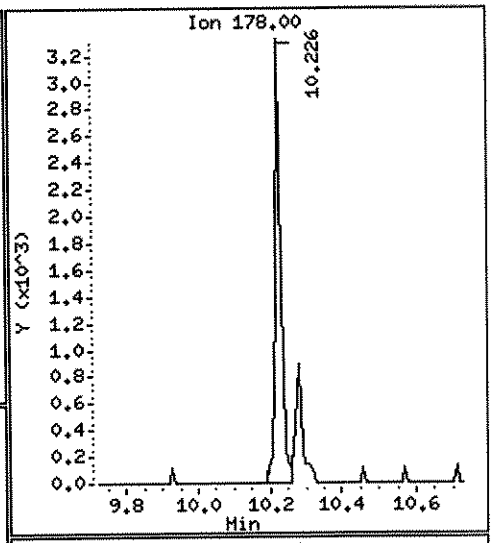
Concentration: 2.454 ug/Kg

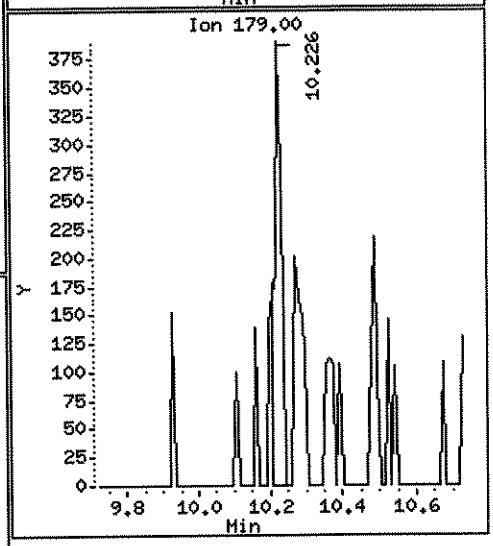












Data File: \\ELABNSH05\TARGET\chem\bna4.i\022412B4E.b\0215009.D

Date : 25-FEB-2012 01:09

Client ID: FLC-4-P03-0204-0221

Instrument: bna4.i

Sample Info: 1202150-09;1;15;1000;1;ug/Kg;22-FEB-2012

Volume Injected (uL): 1.0

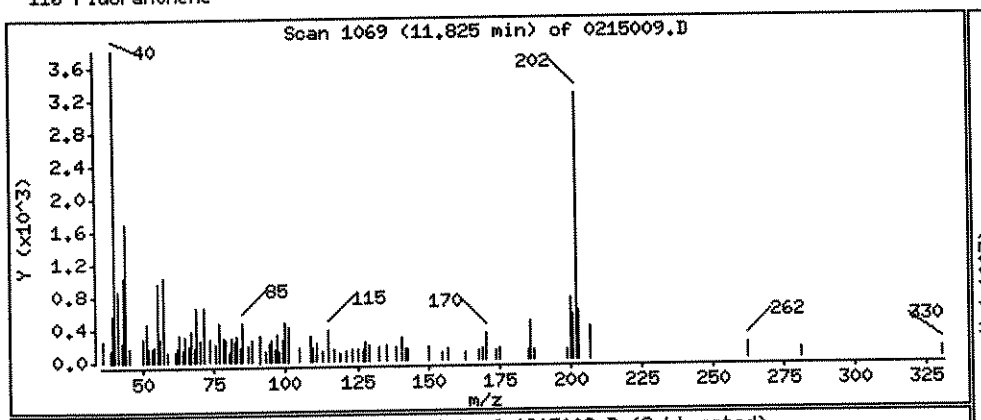
Operator: MEC

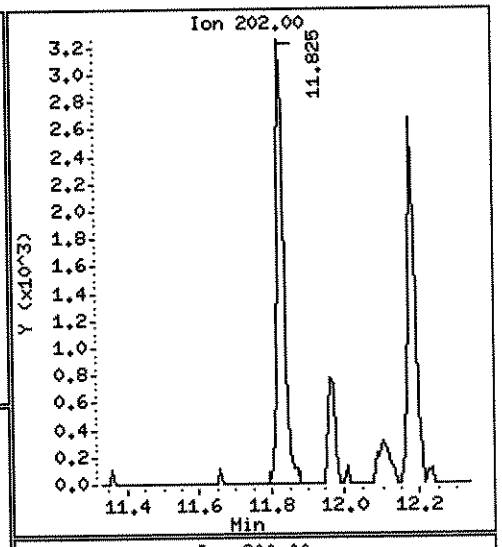
Column phase: fused silica

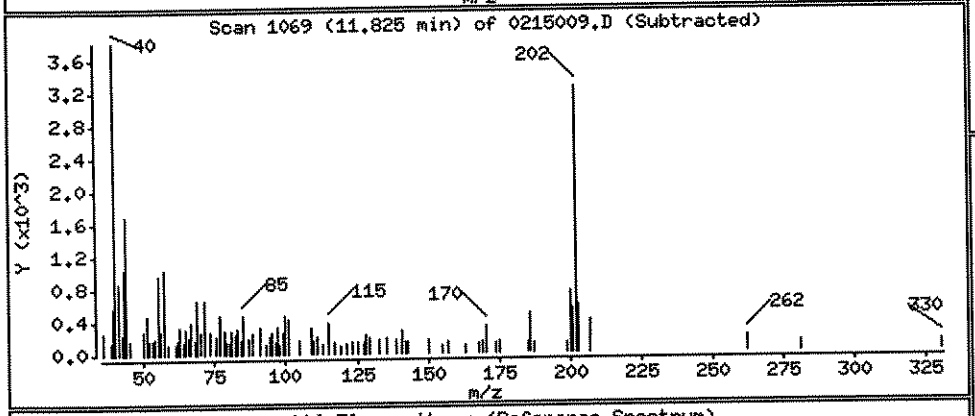
Column diameter: 0.25

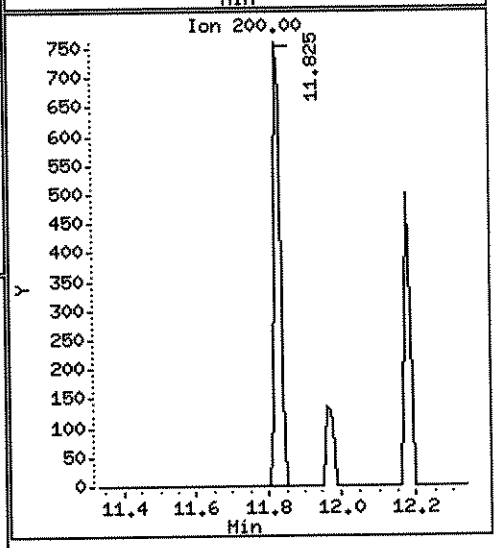
116 Fluoranthene

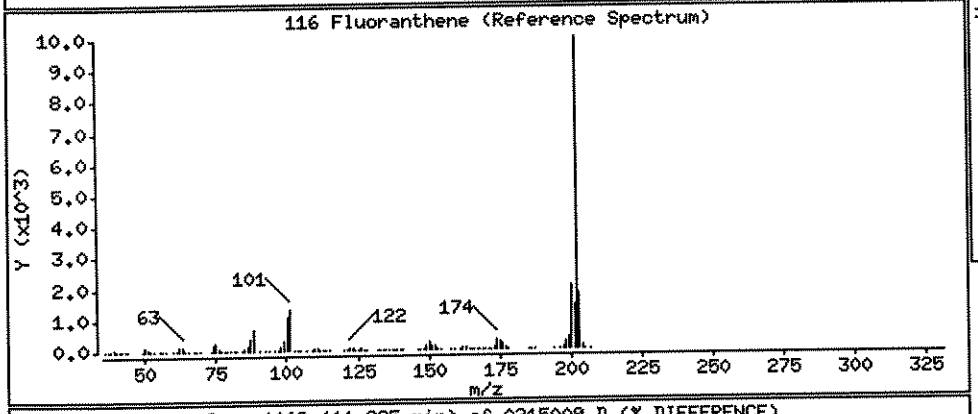
Concentration: 2.782 ug/Kg

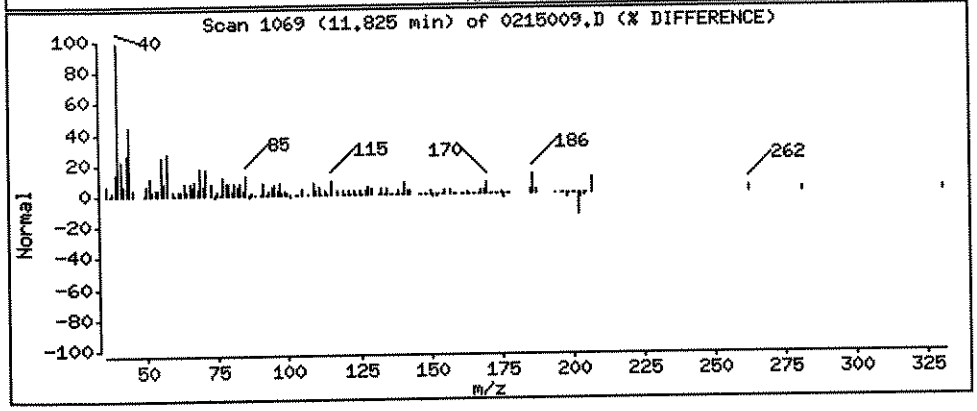












Data File: \\ELABNSH05\TARGET\chem\bna4.i\022412B4E.b\0215009.D

Date : 25-FEB-2012 01:09

Client ID: FLC-4-PO3-0204-0221

Instrument: bna4.i

Sample Info: 1202150-09;1;15;1000;1;ug/Kg;22-FEB-2012

Volume Injected (uL): 1.0

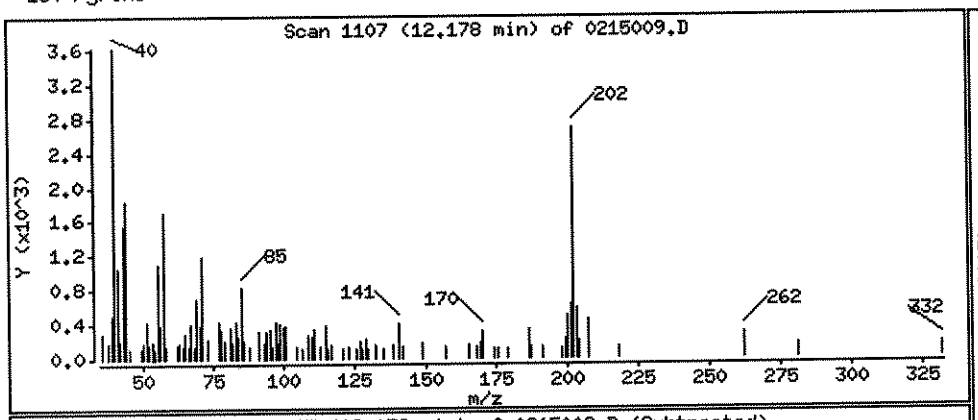
Operator: MEC

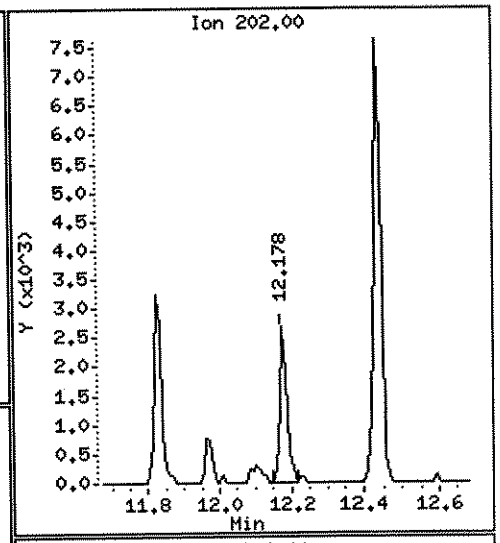
Column phase: fused silica

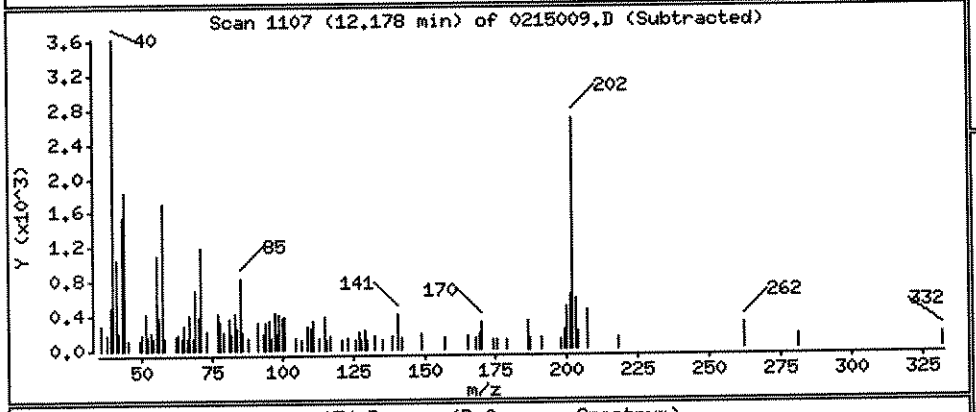
Column diameter: 0.25

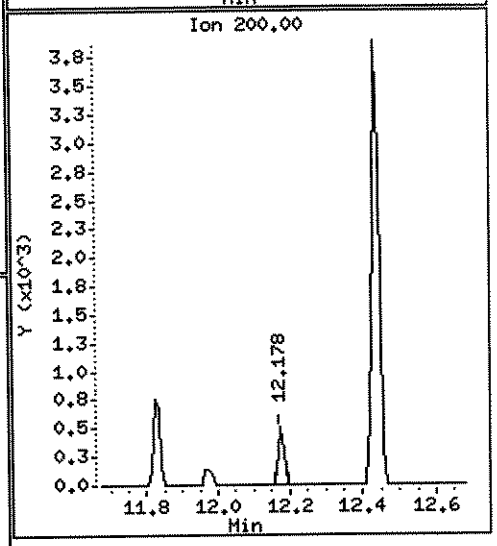
134 Pyrene

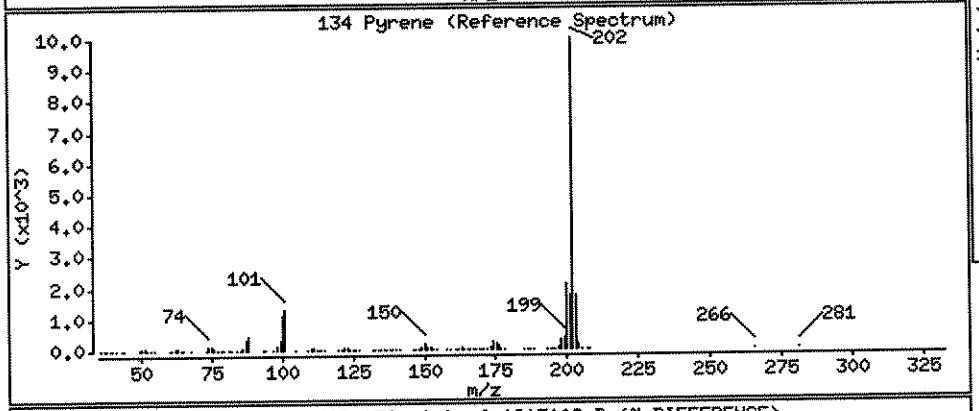
Concentration: 2.260 ug/Kg

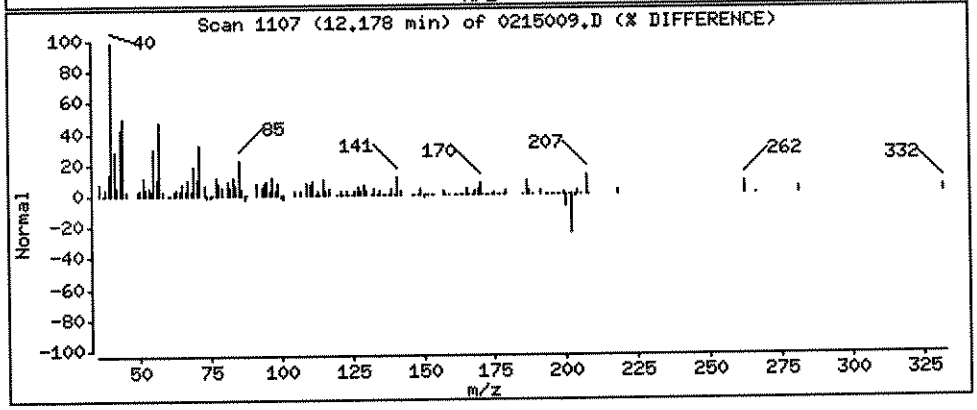












Data File: \\ELABNSH05\TARGET\chem\bna4.i\022412B4E.b\0215010.D
Report Date: 29-Feb-2012 12:12

Laboratory Name

Data file : \\ELABNSH05\TARGET\chem\bna4.i\022412B4E.b\0215010.D
Lab Smp Id: 1202150-10 Client Smp ID: FLC-4-PO4-0624-0221
Inj Date : 25-FEB-2012 01:37 MS Autotune Date: 15-FEB-2012 09:23
Operator : MEC Inst ID: bna4.i
Smp Info : 1202150-10;1;15;1000;1;ug/Kg;22-FEB-2012
Misc Info : ;0;;;;2B22014;pahlow.sub;
Comment :
Method : \\ELABNSH05\TARGET\chem\bna4.i\022412B4E.b\IXBN4LOW.m
Meth Date : 29-Feb-2012 12:10 mcobb Quant Type: ISTD
Cal Date : 20-FEB-2012 16:29 Cal File: SEQ-CAL1.D
Als bottle: 32
Dil Factor: 1.00000
Integrator: HP RTE Compound Sublist: pahlow.sub
Target Version: 4.04
Processing Host: TARGET09_VM

Concentration Formula: Amt * DF * Uf * Vt*Vi/(Amt * Vi * (Solids/100))

Name	Value	Description
DF	1.000	Dilution Factor
Uf	1.000	ng unit correction factor
Vt	1000.000	Volume of final extract (uL)(1000 low, 2
Amt	15.000	Mass of initial extraction
Vi	1.000	Volume injected (uL)
Solids	100.000	Percent Solids

3-1-12

Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS ON-COLUMN (ng/ul)	FINAL (ug/Kg)
$ 74 2-Fluorobiphenyl	172	7.557	7.557	(0.741)	2924436	34.8304	2322
* 102 Phenanthrene-d10	188	10.197	10.197	(1.000)	104438	1.00000	
111 Phenanthrene	178	10.225	10.225	(1.003)	2139	0.02074	1.383(aM)
116 Fluoranthene	202	11.824	11.833	(1.160)	2967	0.02800	1.866(a)
134 Pyrene	202	12.177	12.177	(1.194)	3885	0.03559	2.373(a)
* 154 Perylene-d12	264	17.132	17.123	(1.000)	45983	1.00000	
$ 135 Terphenyl-d14	244	12.438	12.428	(1.220)	3244842	44.9567	2997

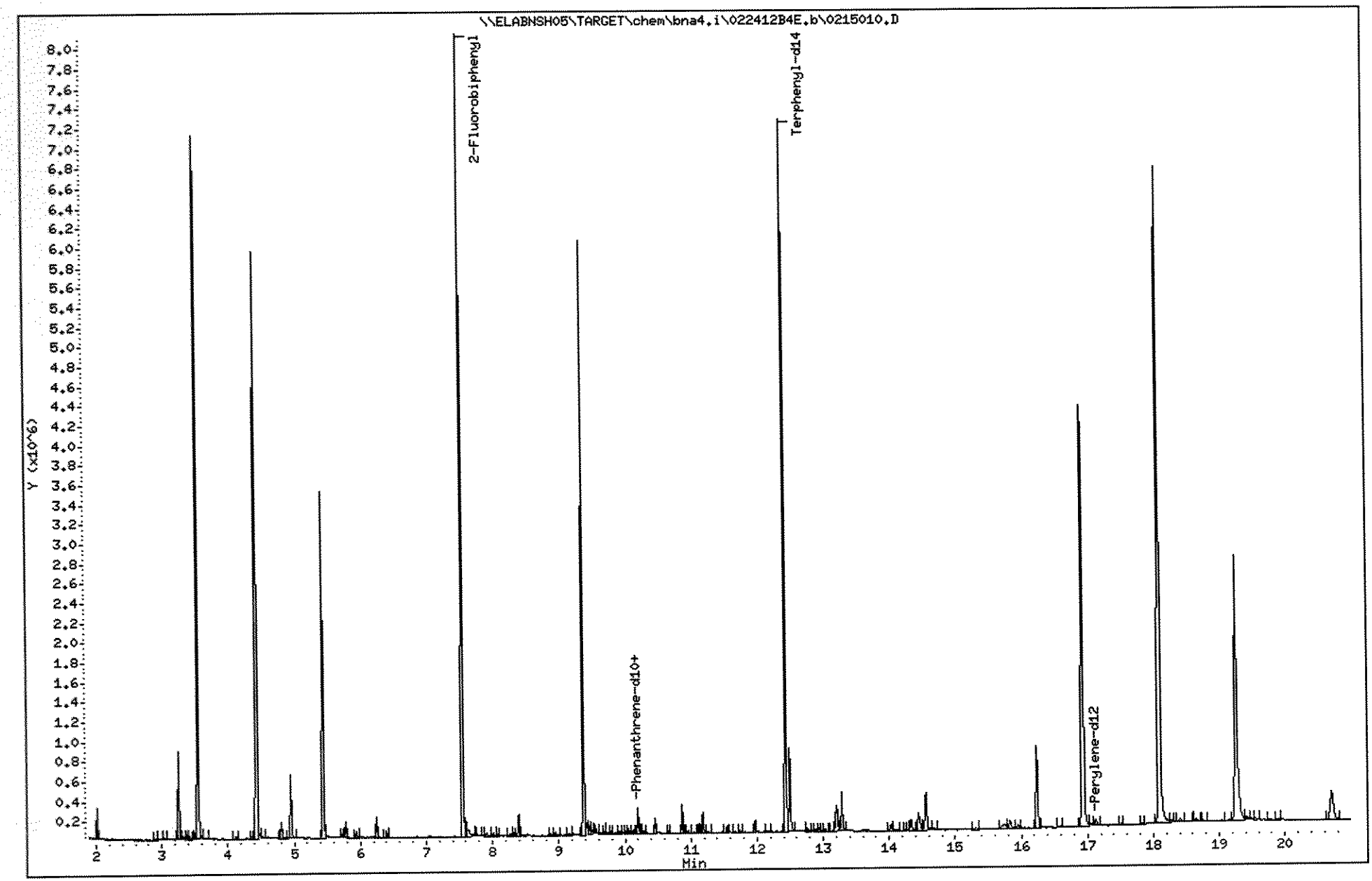
QC Flag Legend

a - Target compound detected but, quantitated amount
Below Limit Of Quantitation(BLOQ).
M - Compound response manually integrated.

MEC
2/29/12

Data File: \\ELABNSH05\TARGET\chem\bna4.i\022412B4E.b\0215010.D
Date : 25-FEB-2012 01:37
Client ID: FLC-4-P04-0624-0221
Sample Info: 1202150-10;1;15;1000;1;ug/Kg;22-FEB-2012
Volume Injected (uL): 1.0
Column phase: fused silica

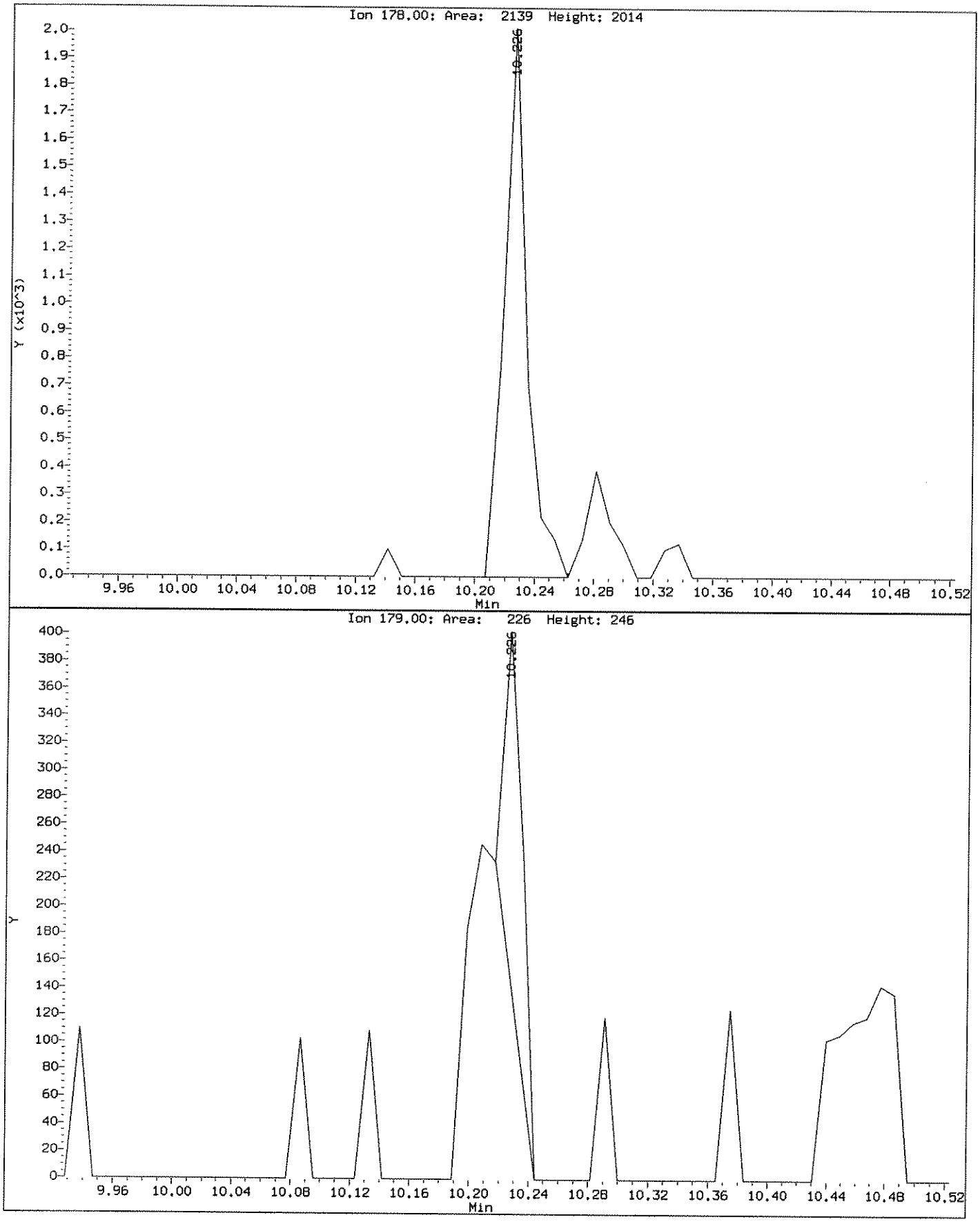
Instrument: bna4.i
Operator: MEC
Column diameter: 0.25



1202150

Data File: \\ELABNSHO5\TARGET\chem\bna4.i\022412B4E.b\0215010.D
Injection Date: 25-FEB-2012 01:37
Instrument: bna4.i
Client Sample ID: FLC-4-P04-0624-0221

Compound: Phenanthrene
CAS Number: 85-01-8



Data File: \\ELABNSH05\TARGET\chem\bna4.i\022412B4E.b\0215010.D

Date : 25-FEB-2012 01:37

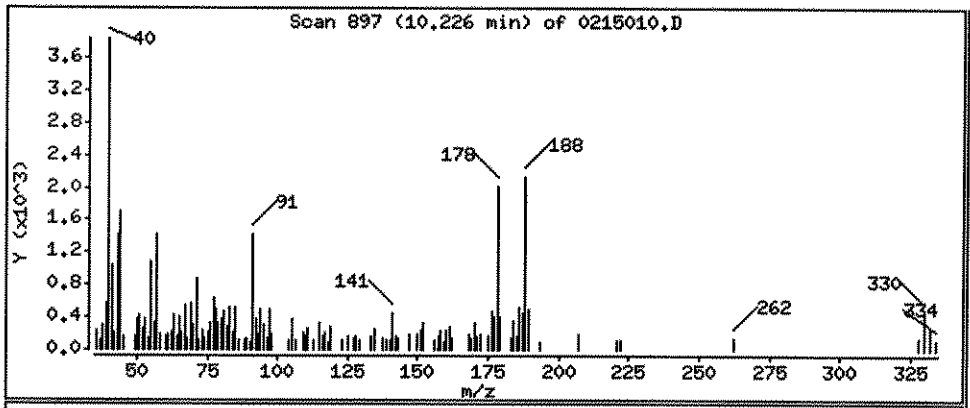
Client ID: FLC-4-P04-0624-0221 | Instrument: bna4.i

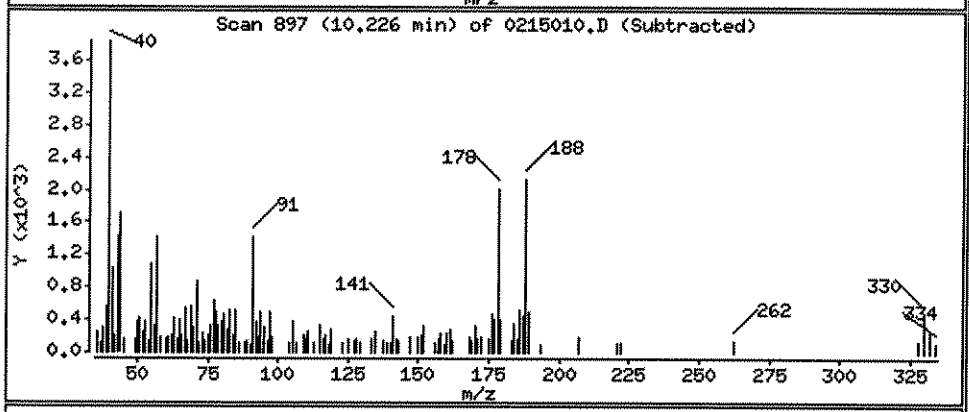
Sample Info: 1202150-10;1;15;1000;1;ug/Kg;22-FEB-2012

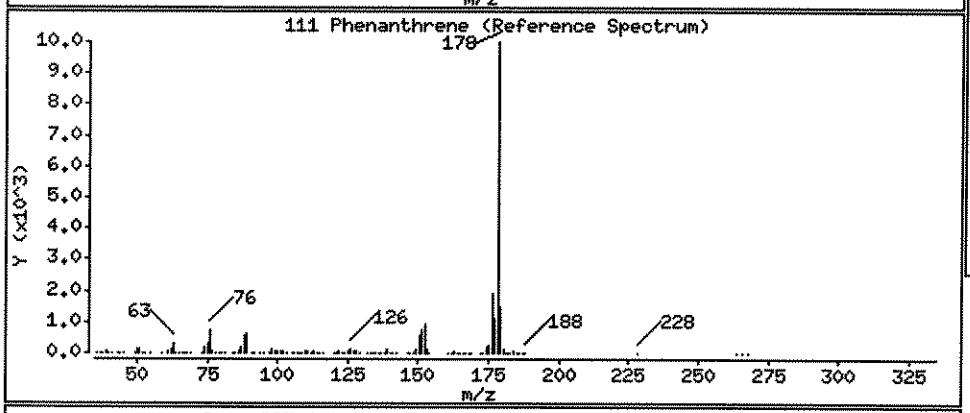
Volume Injected (uL): 1.0 | Operator: HEC

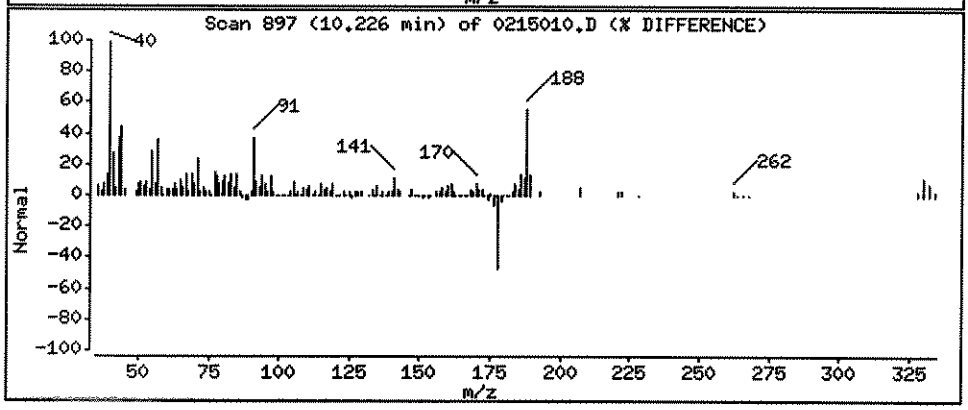
Column phase: fused silica | Column diameter: 0.25

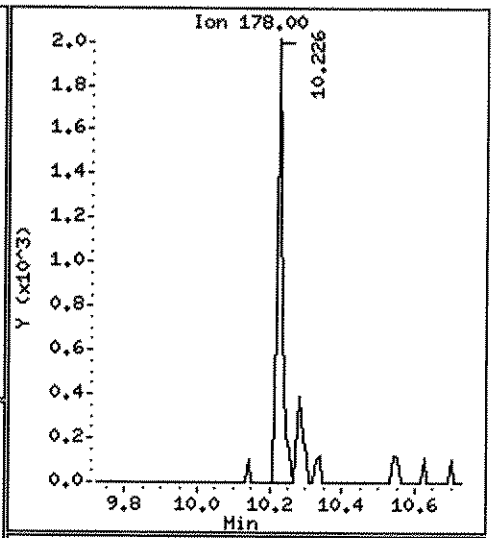
111 Phenanthrene | Concentration: 1.383 ug/Kg

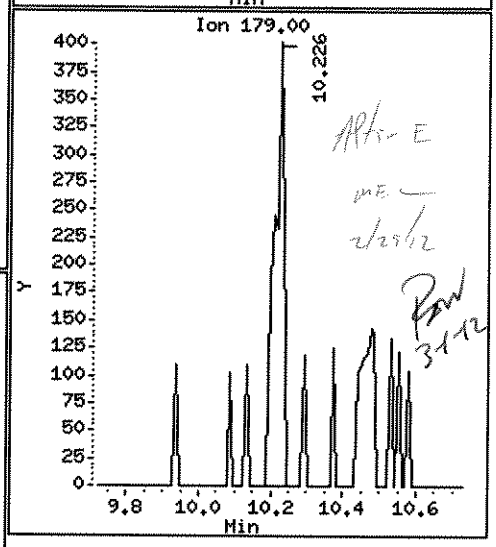












Data File: \\ELABNSH05\TARGET\chem\bna4.i\022412B4E.b\0215010.D

Date : 25-FEB-2012 01:37

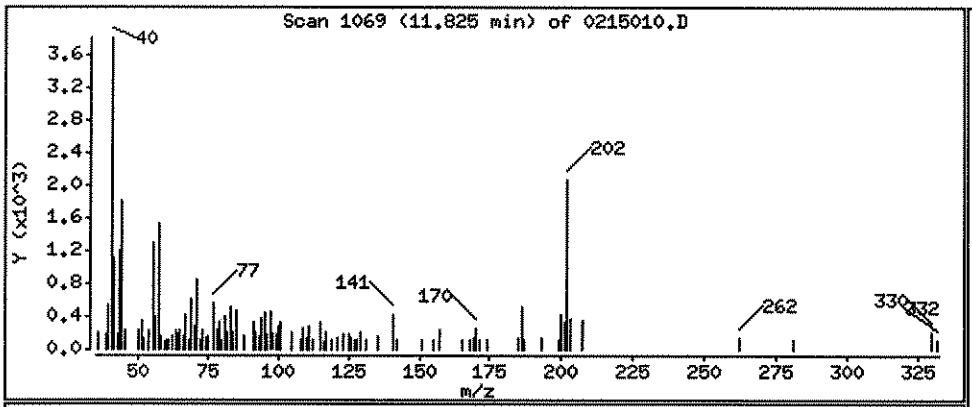
Client ID: FLC-4-P04-0624-0221 Instrument: bna4.i

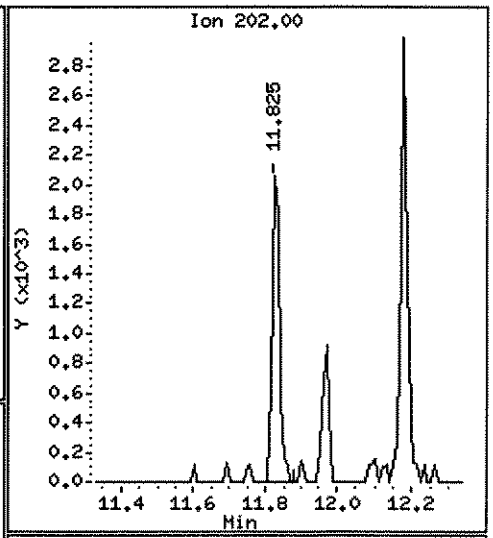
Sample Info: 1202150-10;1;15;1000;1;ug/Kg;22-FEB-2012

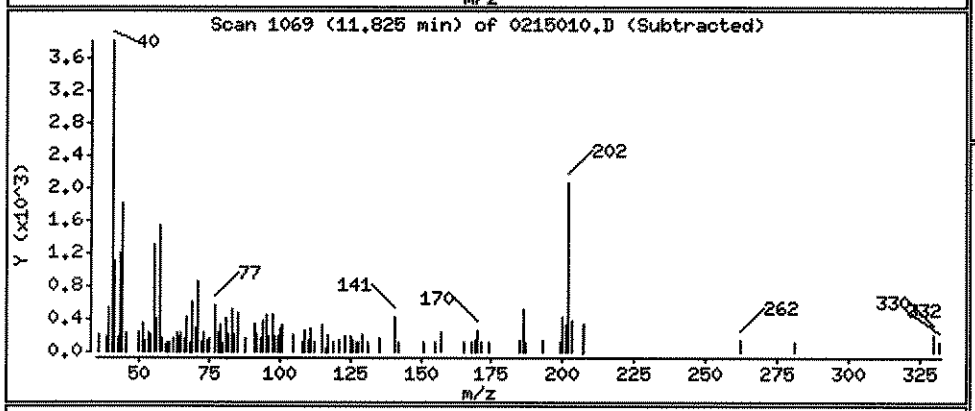
Volume Injected (uL): 1.0 Operator: MEC

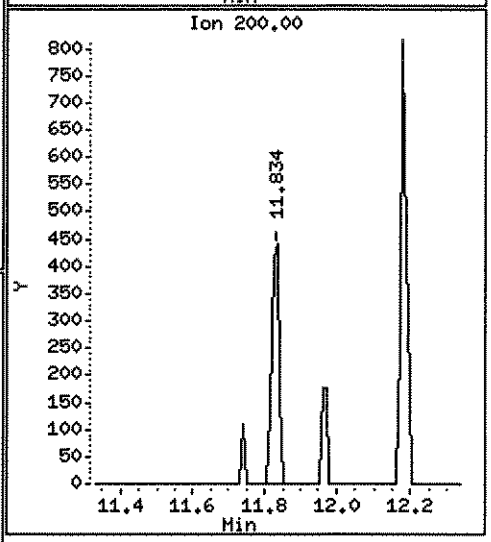
Column phase: fused silica Column diameter: 0.25

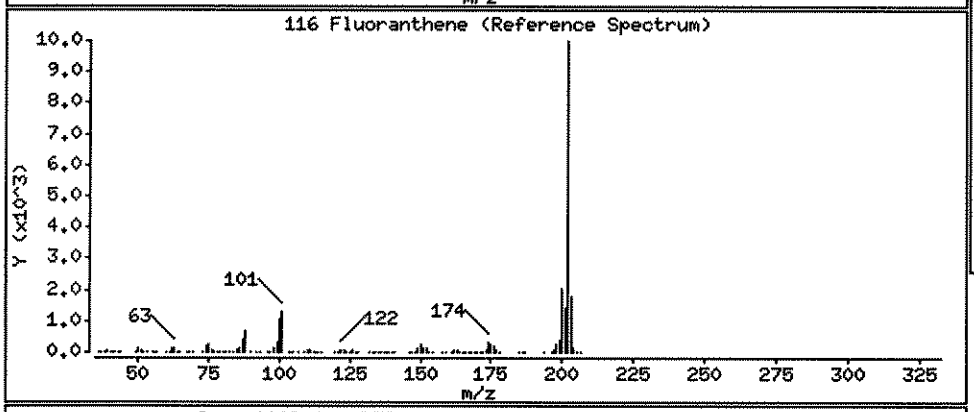
116 Fluoranthene Concentration: 1.866 ug/Kg

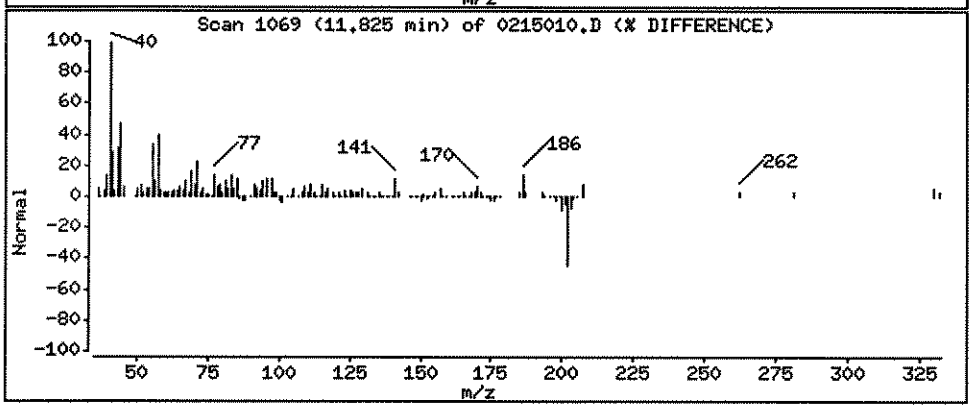












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Date : 25-FEB-2012 01:37

Client ID: FLC-4-P04-0624-0221

Instrument: bna4.i

Sample Info: 1202150-10;1;15;1000;1;ug/Kg;22-FEB-2012

Volume Injected (uL): 1.0

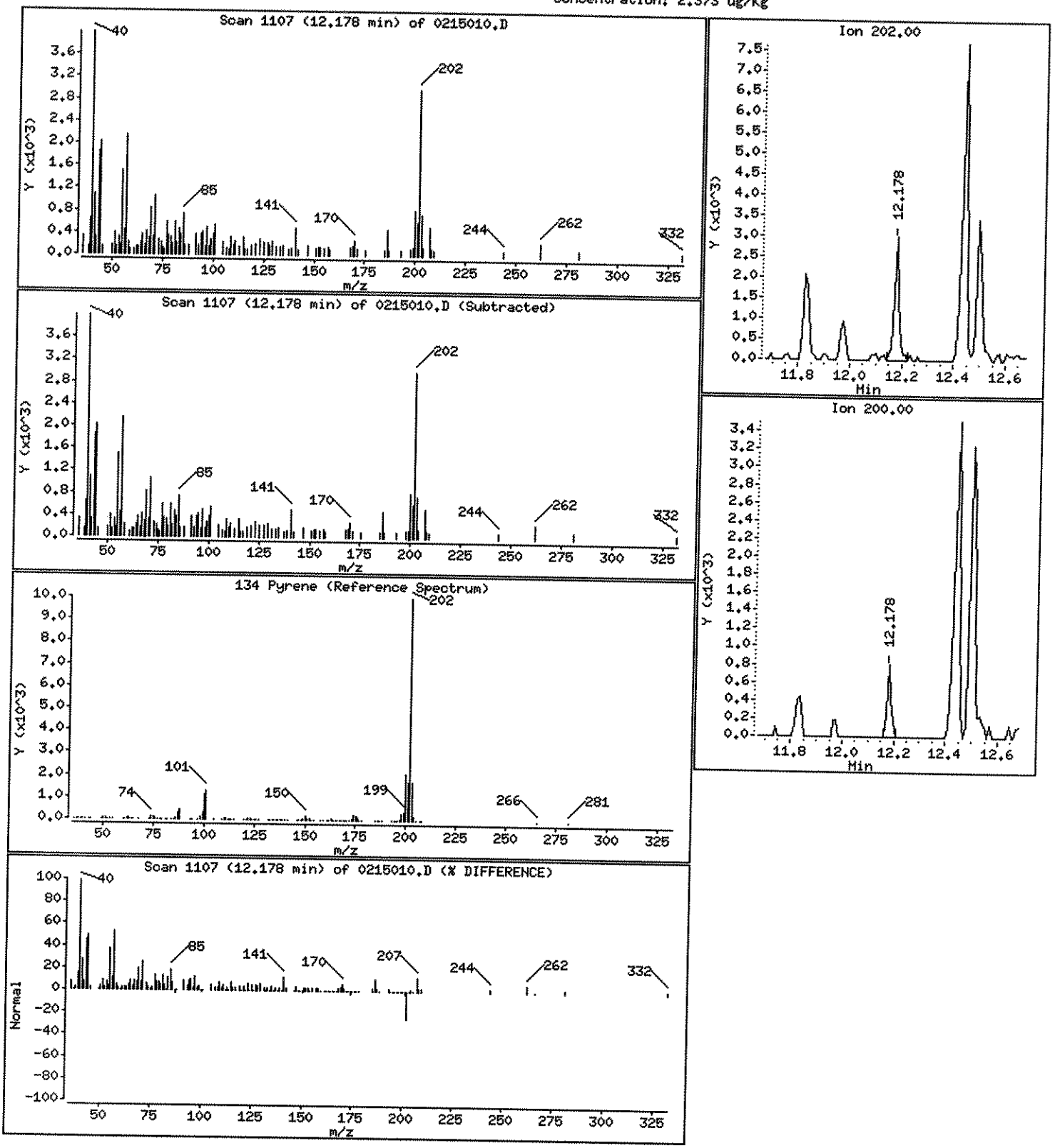
Operator: MEC

Column phase: fused silica

Column diameter: 0.25

134 Pyrene

Concentration: 2.373 ug/Kg



Data File: \\ELABNSH05\TARGET\chem\bna4.i\022412B4E.b\0215011.D
Report Date: 29-Feb-2012 12:13

Laboratory Name

Data file : \\ELABNSH05\TARGET\chem\bna4.i\022412B4E.b\0215011.D
Lab Smp Id: 1202150-11 Client Smp ID: FLC-4-PO4-0204-0221
Inj Date : 25-FEB-2012 02:05 MS Autotune Date: 15-FEB-2012 09:23
Operator : MEC Inst ID: bna4.i
Smp Info : 1202150-11;1;15;1000;1;ug/Kg;22-FEB-2012
Misc Info : ;0;;;;2B22014;pahlow.sub;
Comment :
Method : \\ELABNSH05\TARGET\chem\bna4.i\022412B4E.b\IXBN4LOW.m
Meth Date : 29-Feb-2012 12:10 mcobb Quant Type: ISTD
Cal Date : 20-FEB-2012 16:29 Cal File: SEQ-CAL1.D
Als bottle: 33
Dil Factor: 1.00000
Integrator: HP RTE Compound Sublist: pahlow.sub
Target Version: 4.04
Processing Host: TARGET09_VM

Concentration Formula: Amt * DF * Uf * Vt*Vi/(Amt * Vi * (Solids/100))

Name	Value	Description
DF	1.000	Dilution Factor
Uf	1.000	ng unit correction factor
Vt	1000.000	Volume of final extract (uL)(1000 low, 2
Amt	15.000	Mass of initial extraction
Vi	1.000	Volume injected (uL)
Solids	100.000	Percent Solids

3-1-12

Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS ON-COLUMN (ng/ul)	FINAL (ug/Kg)
$ 74 2-Fluorobiphenyl	172	7.557	7.557	(0.741)	2935995	35.6944	2380
* 102 Phenanthrene-d10	188	10.197	10.197	(1.000)	102313	1.00000	
134 Pyrene	202	12.178	12.177	(1.194)	2247	0.02101	1.401(a)
* 154 Perylene-d12	264	17.132	17.123	(1.000)	42320	1.00000	
$ 135 Terphenyl-d14	244	12.438	12.428	(1.220)	3337580	47.2020	3147
138 Benzo(a)anthracene	228	14.297	14.297	(1.402)	1654	0.02450	1.634(a)
139 Chrysene	228	14.381	14.381	(1.410)	1804	0.02674	1.782(aM)

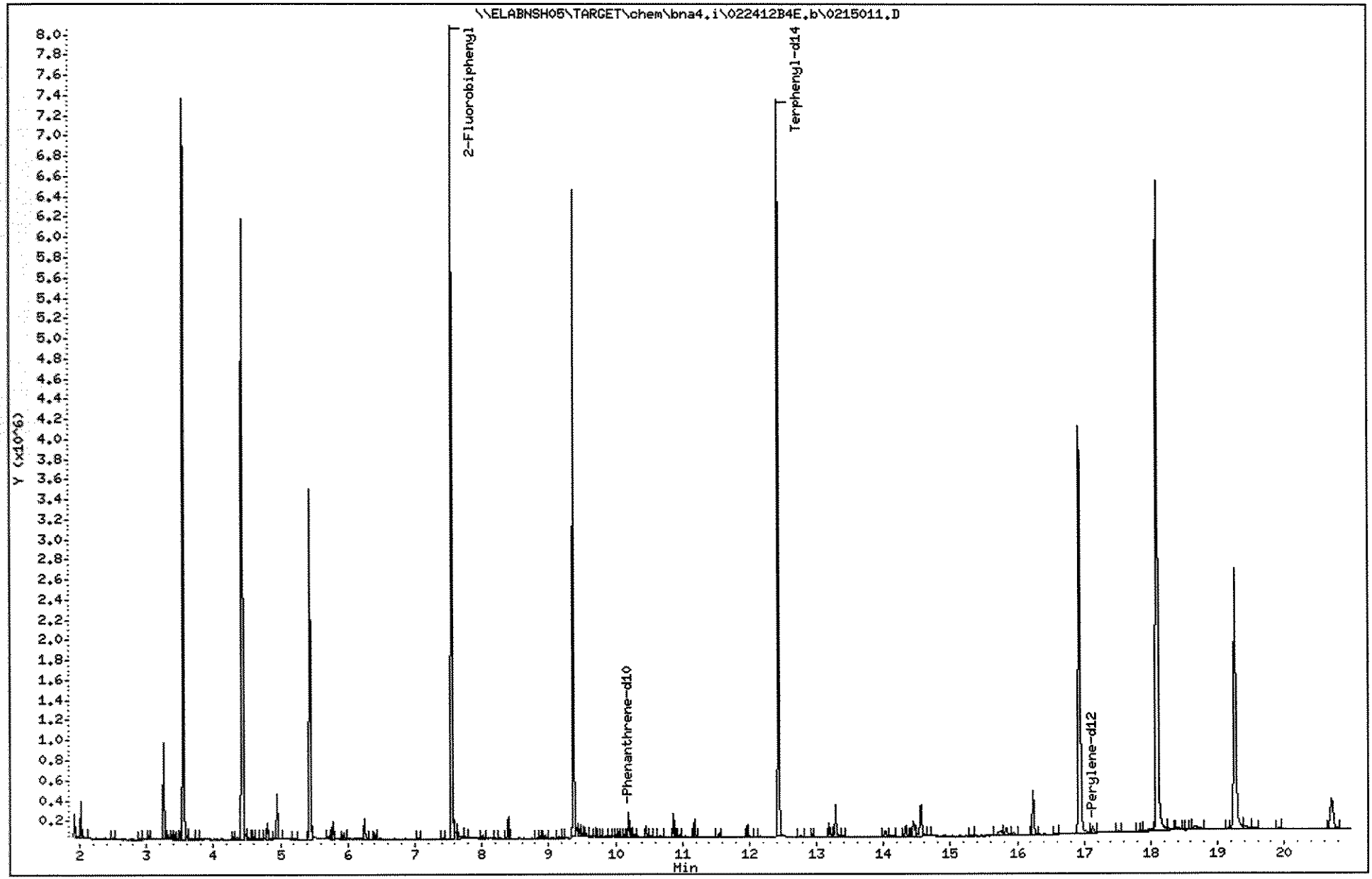
QC Flag Legend

a - Target compound detected but, quantitated amount
Below Limit Of Quantitation(BLOQ).
M - Compound response manually integrated.

mec
2/29/12

Data File: \\ELABNSH05\TARGET\chem\bna4.i\022412B4E.b\0215011.D
Date : 25-FEB-2012 02:05
Client ID: FLC-4-P04-0204-0221
Sample Info: 1202150-11;1;15;1000;1;ug/Kg;22-FEB-2012
Volume Injected (uL): 1.0
Column phase: fused silica

Instrument: bna4.i
Operator: MEC
Column diameter: 0.25



Data File: \\ELABNSH05\TARGET\chem\bna4.i\022412B4E.b\0215011.D

Date : 25-FEB-2012 02:05

Client ID: FLC-4-P04-0204-0221

Instrument: bna4.i

Sample Info: 1202150-11;1;15;1000;1;ug/Kg;22-FEB-2012

Volume Injected (uL): 1.0

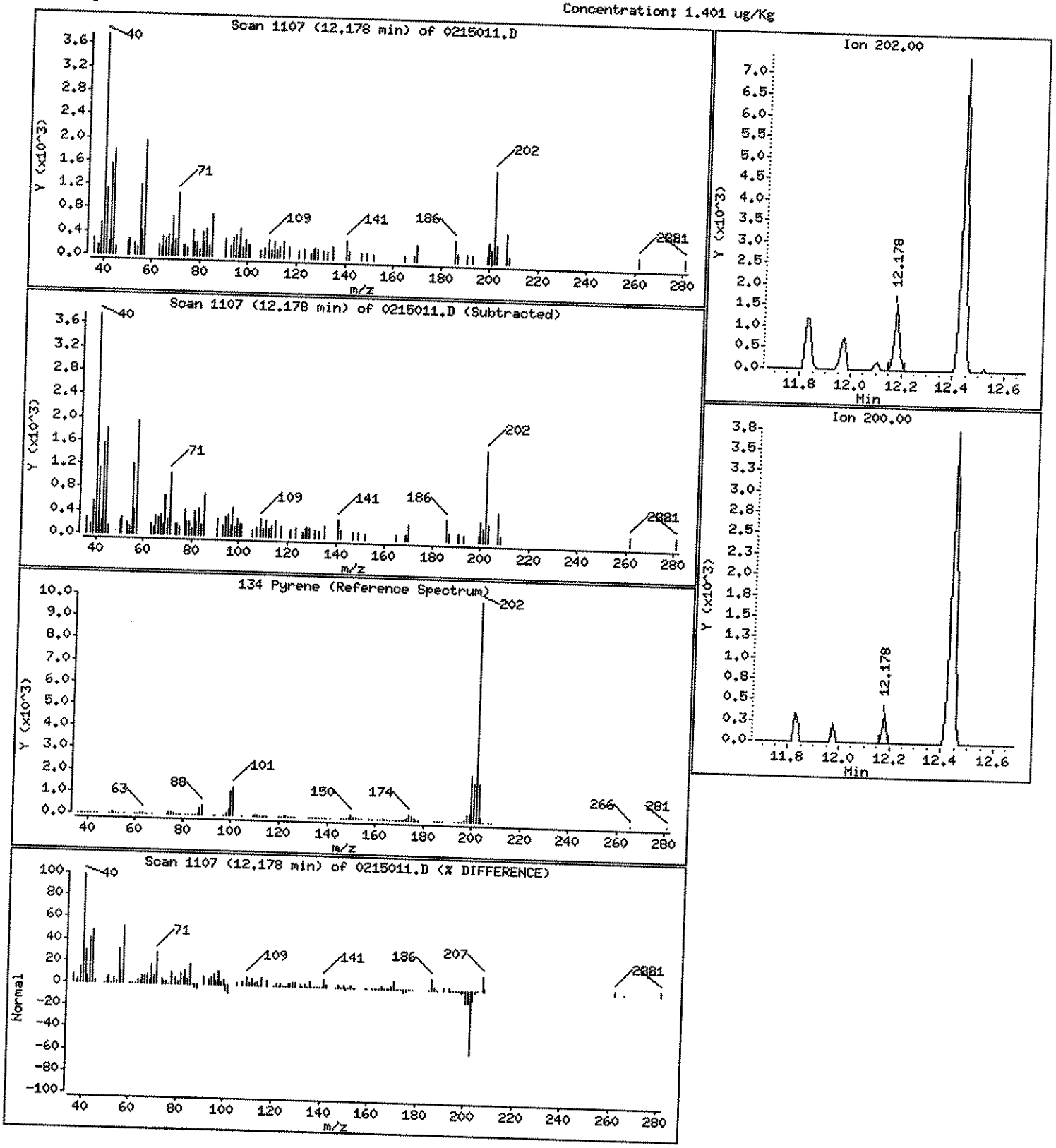
Operator: MEC

Column phase: fused silica

Column diameter: 0.25

134 Pyrene

Concentration: 1.401 ug/Kg



Data File: \\ELABNSH05\TARGET\chem\bna4.i\022412B4E.b\0215011.D

Date : 25-FEB-2012 02:05

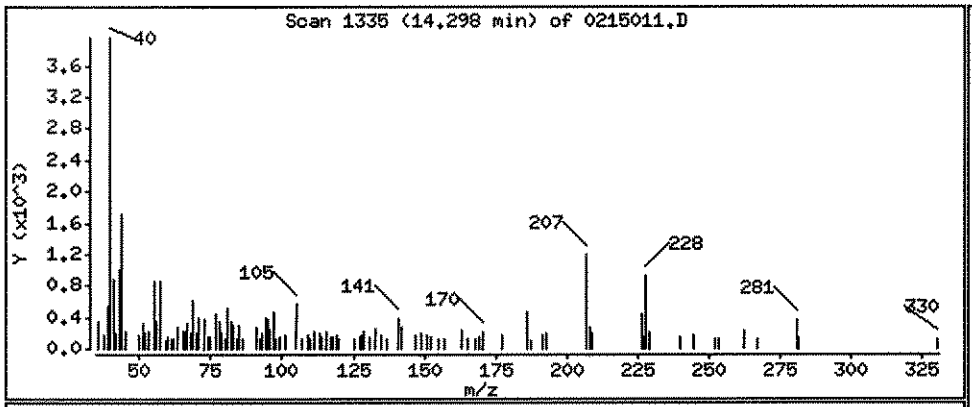
Client ID: FLC-4-P04-0204-0221 Instrument: bna4.i

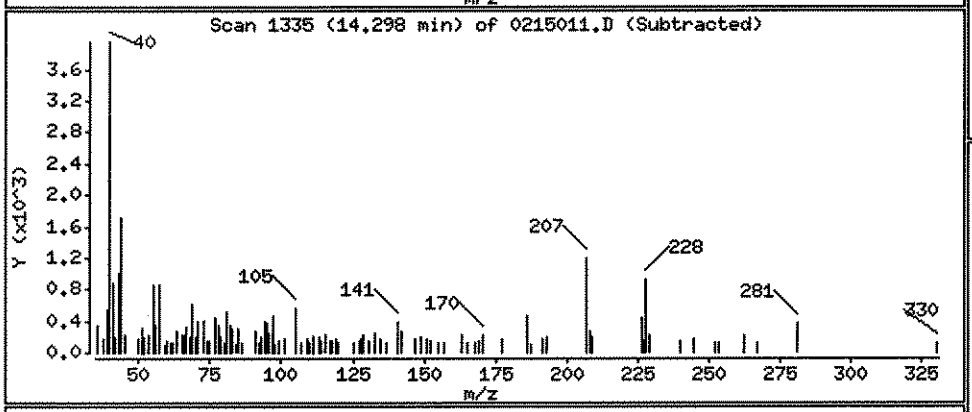
Sample Info: 1202150-11;1;15;1000;1;ug/Kg;22-FEB-2012

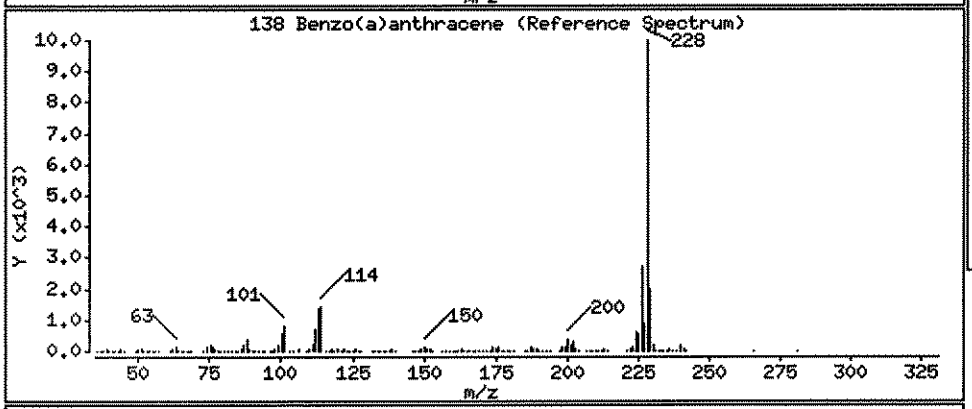
Volume Injected (uL): 1.0 Operator: MEC

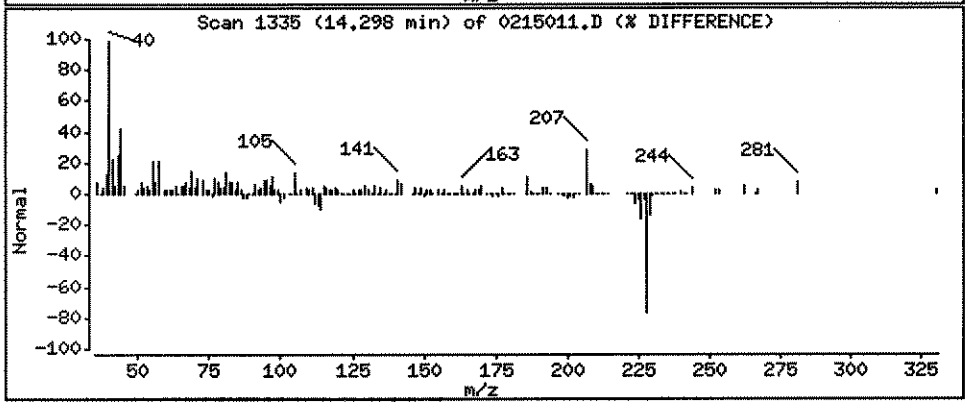
Column phase: fused silica Column diameter: 0.25

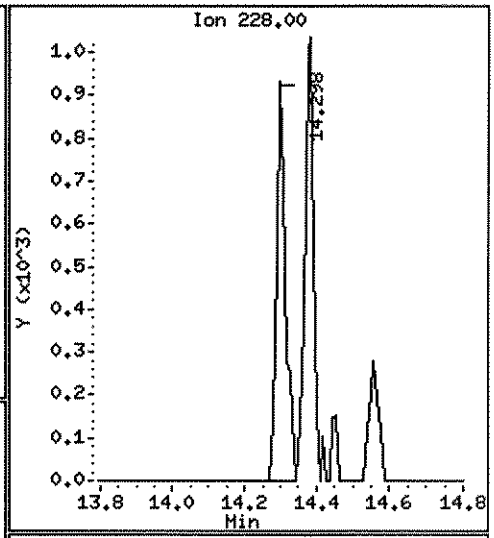
138 Benzo(a)anthracene Concentration: 1.634 ug/Kg

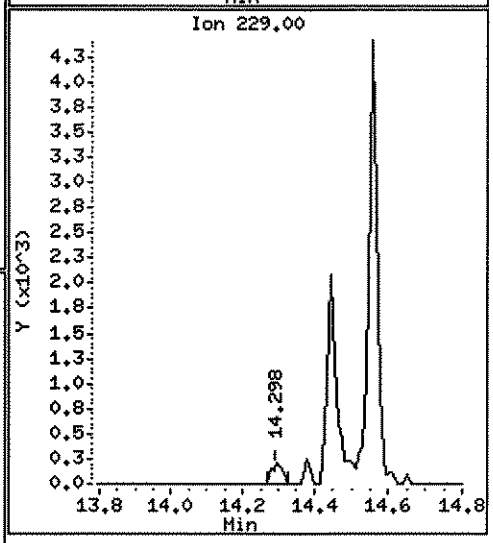






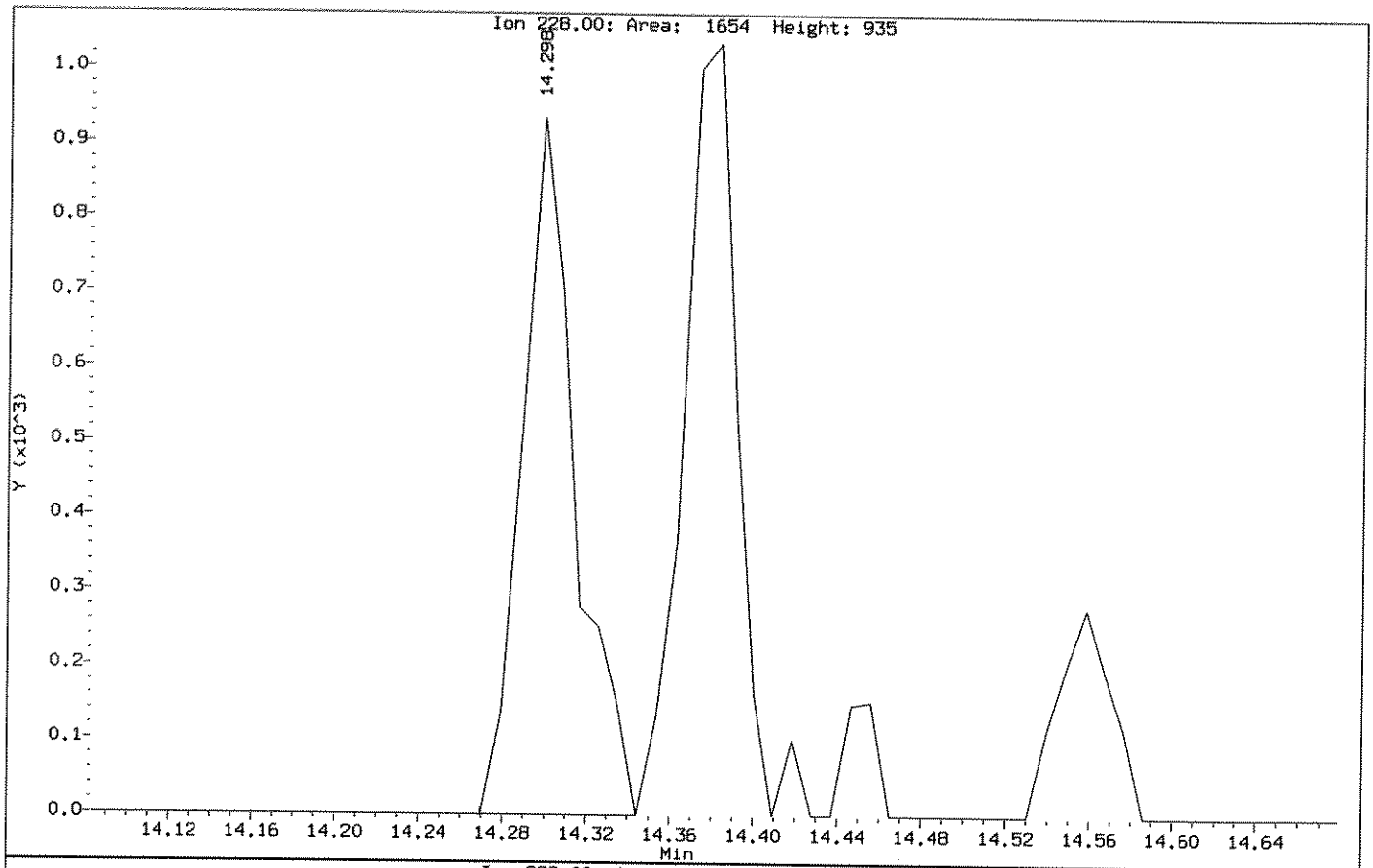


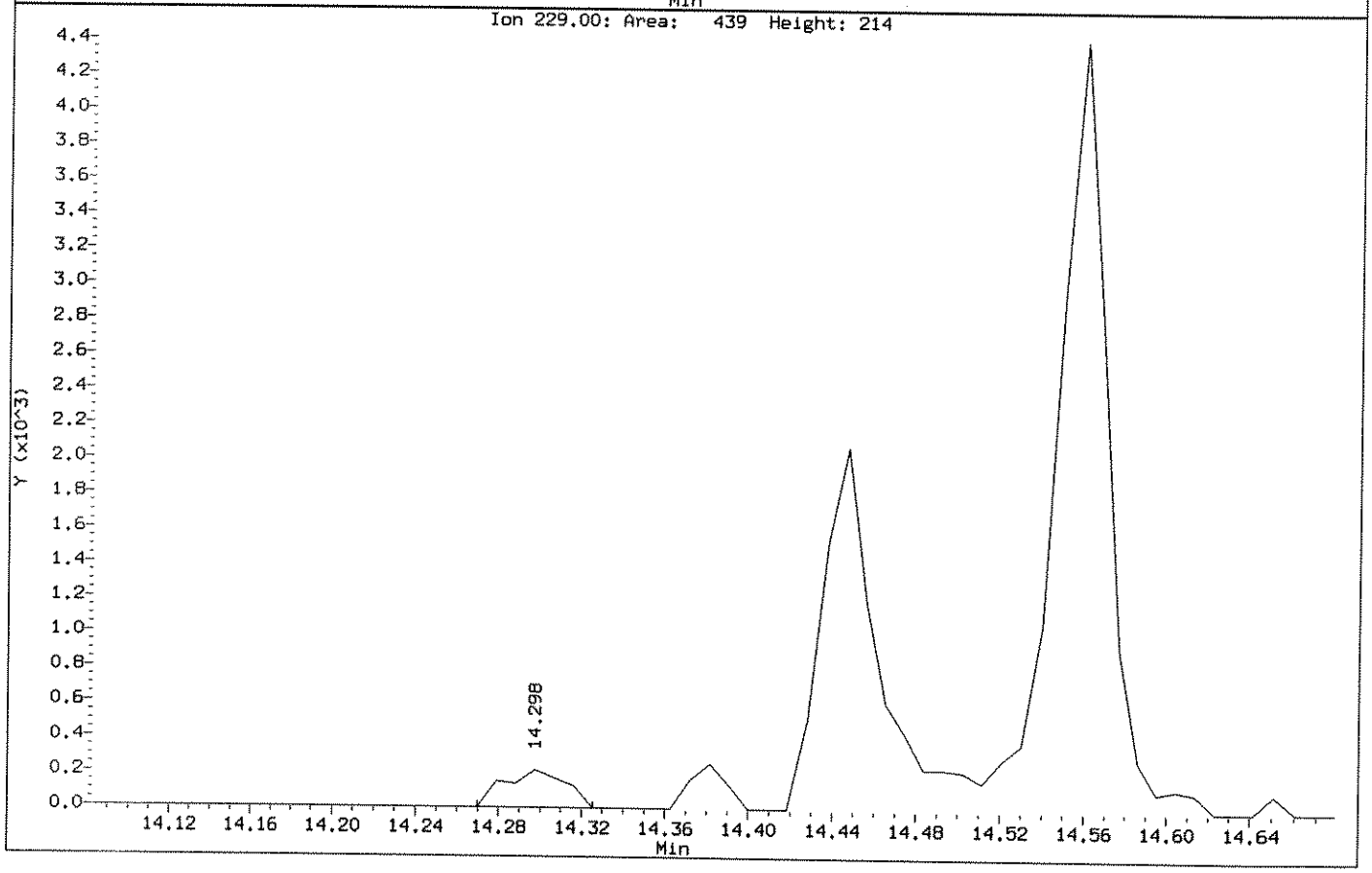




Data File: \\ELABNSHO5\TARGET\chem\bna4.i\022412B4E.b\0215011.D
Injection Date: 25-FEB-2012 02:05
Instrument: bna4.i
Client Sample ID: FLC-4-P04-0204-0221

Compound: Chrysene
CAS Number: 218-01-9





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Date : 25-FEB-2012 02:05

Client ID: FLC-4-P04-0204-0221

Instrument: bna4.i

Sample Info: 1202150-11;1;15;1000;1;ug/Kg;22-FEB-2012

Volume Injected (uL): 1.0

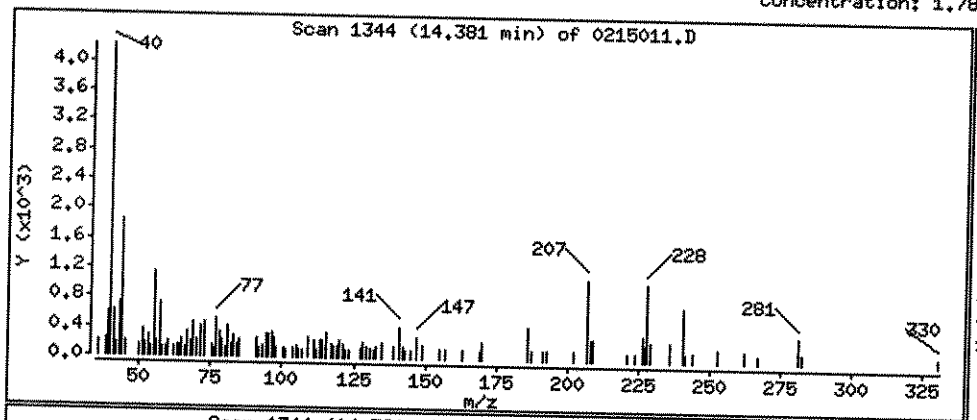
Operator: MEC

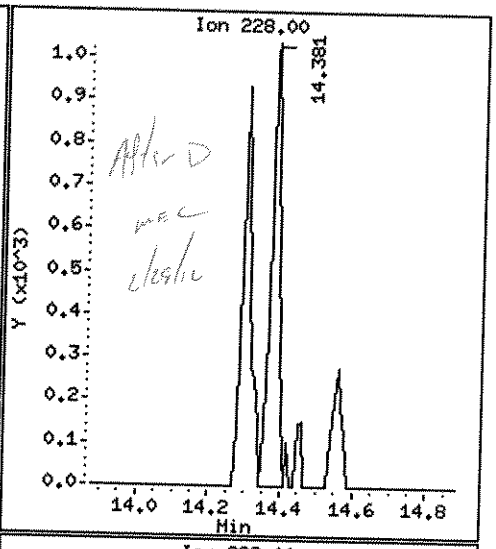
Column phase: fused silica

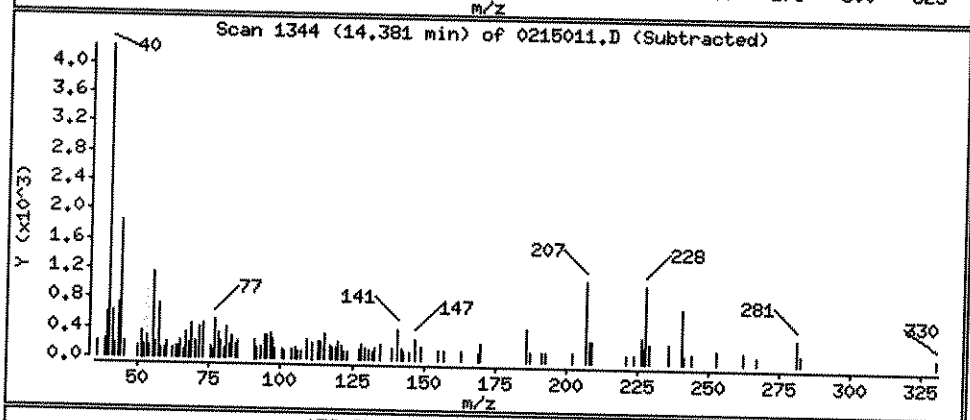
Column diameter: 0.25

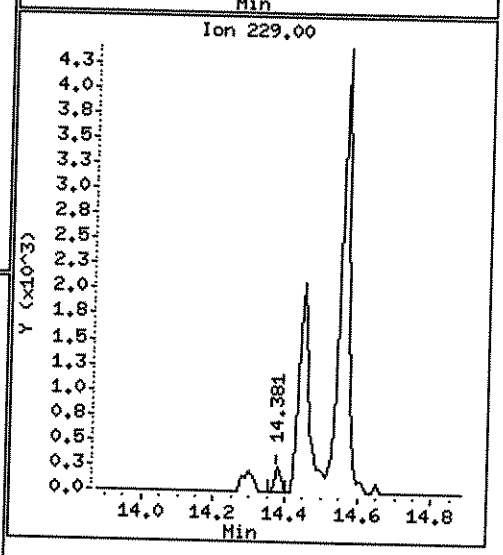
139 Chrysene

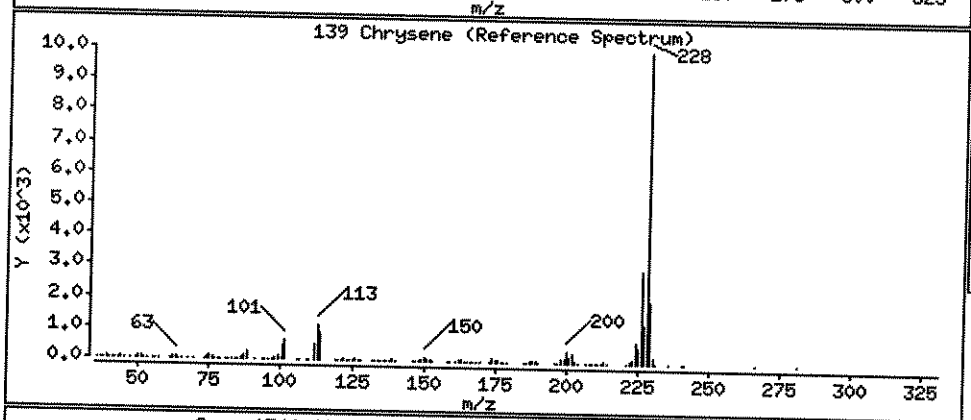
Concentration: 1.782 ug/Kg

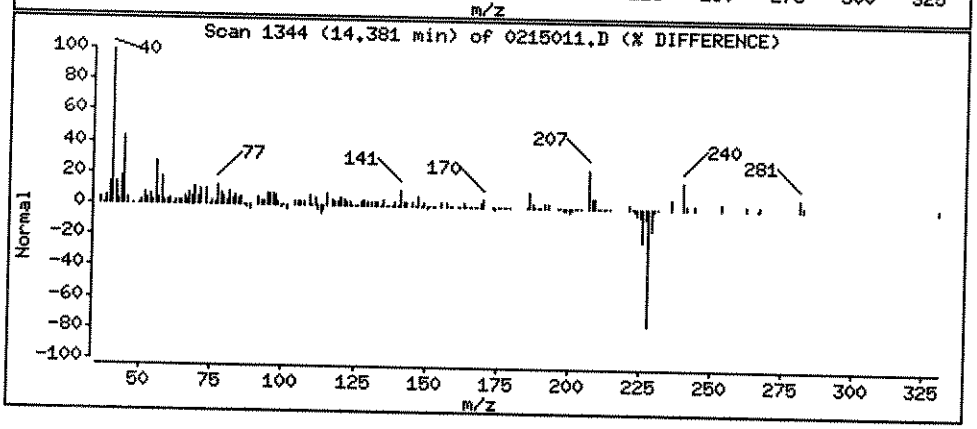












Data File: \\ELABNSH05\TARGET\chem\bna4.i\022412B4E.b\0215012D.D
Report Date: 29-Feb-2012 12:13

Laboratory Name

Data file : \\ELABNSH05\TARGET\chem\bna4.i\022412B4E.b\0215012D.D
Lab Smp Id: 1202150-12 Client Smp ID: FLC-4-DUP02-022112
Inj Date : 25-FEB-2012 02:34 MS Autotune Date: 15-FEB-2012 09:23
Operator : MEC Inst ID: bna4.i
Smp Info : 1202150-12;10;15;1000;1;ug/Kg;22-FEB-2012
Misc Info : ;0;;;;2B22014;pahlow.sub;
Comment :
Method : \\ELABNSH05\TARGET\chem\bna4.i\022412B4E.b\IXBN4LOW.m
Meth Date : 29-Feb-2012 12:10 mcobb Quant Type: ISTD
Cal Date : 20-FEB-2012 16:29 Cal File: SEQ-CAL1.D
Als bottle: 34
Dil Factor: 10.00000
Integrator: HP RTE Compound Sublist: pahlow.sub
Target Version: 4.04
Processing Host: TARGET09_VM

Concentration Formula: Amt * DF * Uf * Vt*Vi/(Amt * Vi * (Solids/100))

Name	Value	Description
DF	10.000	Dilution Factor
Uf	1.000	ng unit correction factor
Vt	1000.000	Volume of final extract (uL)(1000 low, 2
Amt	15.000	Mass of initial extraction
Vi	1.000	Volume injected (uL)
Solids	100.000	Percent Solids

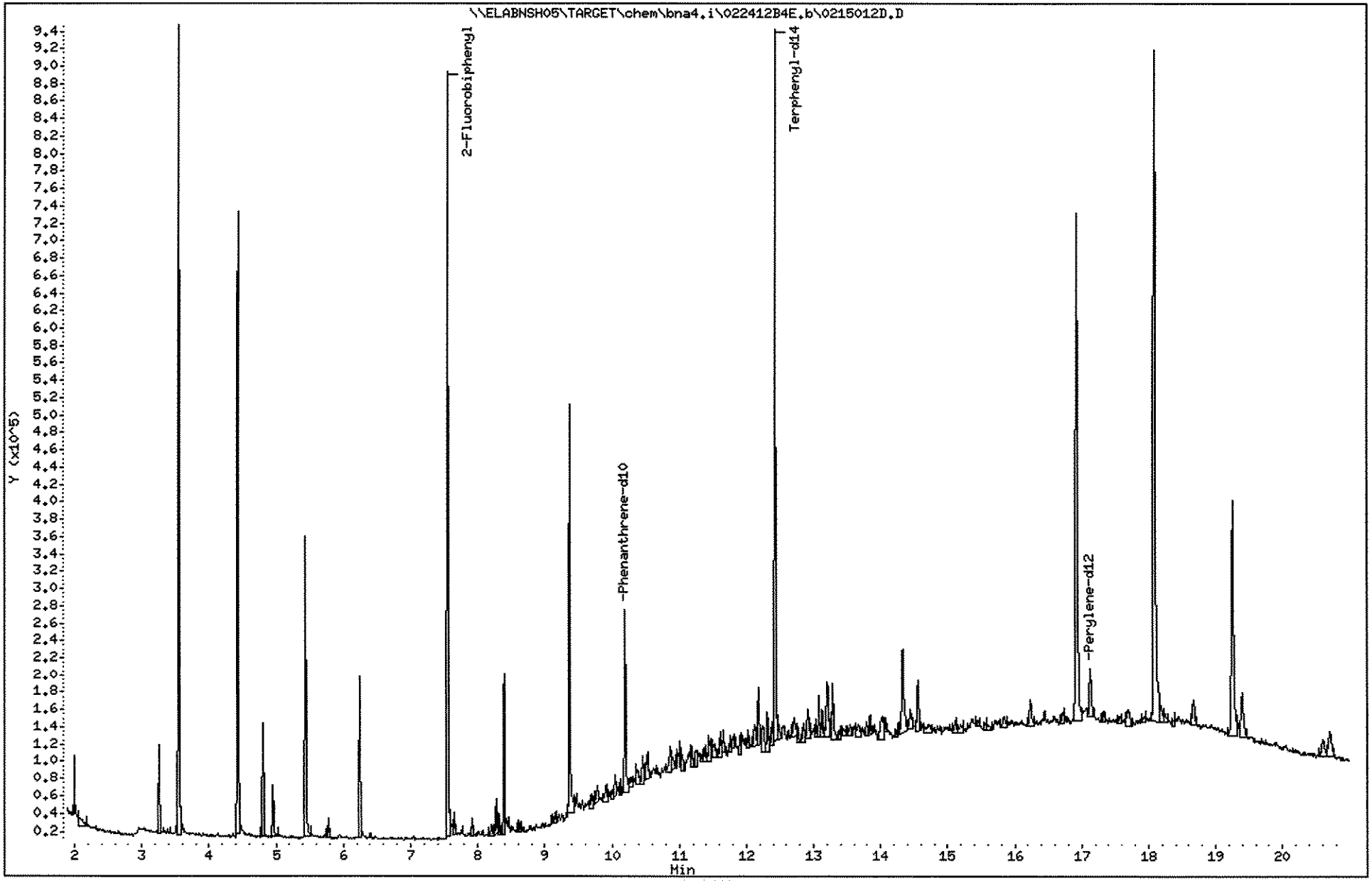
RDW 3-1-12

Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS ON-COLUMN (ng/ul)	FINAL (ug/Kg)
$ 74 2-Fluorobiphenyl	172	7.557	7.557	(0.741)	308598	4.13496	2757
* 102 Phenanthrene-d10	188	10.197	10.197	(1.000)	92832	1.00000	
116 Fluoranthene	202	11.833	11.833	(1.160)	9975	0.10590	70.60
134 Pyrene	202	12.177	12.177	(1.194)	35458	0.36544	243.6
* 154 Perylene-d12	264	17.132	17.123	(1.000)	39899	1.00000	
$ 135 Terphenyl-d14	244	12.428	12.428	(1.219)	339202	5.28713	3525
139 Chrysene	228	14.371	14.381	(1.409)	10308	0.16837	112.2
158 Benzo(a)pyrene	252	17.021	17.021	(0.993)	2636	0.07029	46.86
161 Benzo(g,h,i)perylene	276	19.522	19.531	(1.139)	1940	0.07227	48.18

MEC 2/29/12

Data File: \\ELABNSH05\TARGET\chem\bna4.i\022412B4E.b\0215012D.D
Date : 25-FEB-2012 02:34
Client ID: FLC-4-DUP02-022112
Sample Info: 1202150-12;10;15;1000;1;ug/Kg;22-FEB-2012
Volume Injected (uL): 1.0
Column phase: fused silica

Instrument: bna4.i
Operator: MEC
Column diameter: 0.25



297

1202150

Data File: \\ELABNSHO5\TARGET\chem\bna4.i\022412B4E.b\0215012D.D

Date : 25-FEB-2012 02:34

Client ID: FLC-4-DUP02-022112

Instrument: bna4.i

Sample Info: 1202150-12;10;15;1000;1;ug/Kg;22-FEB-2012

Volume Injected (uL): 1.0

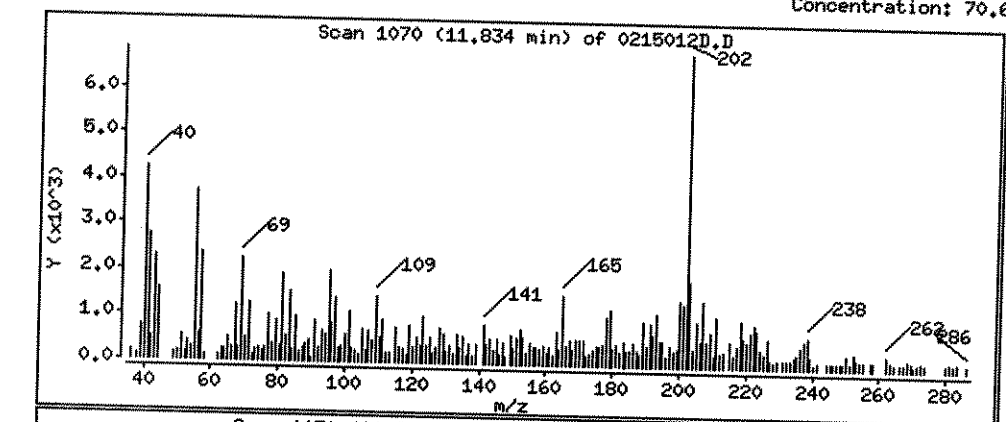
Operator: MEC

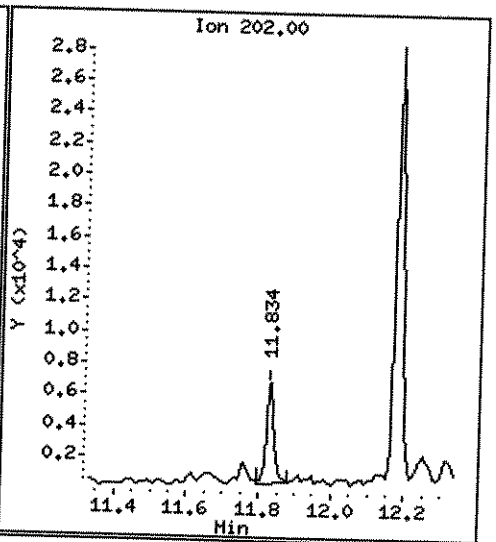
Column phase: fused silica

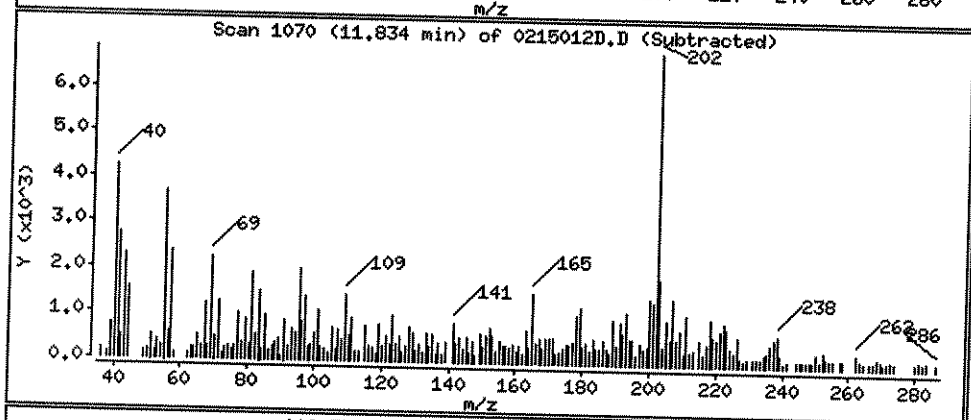
Column diameter: 0.25

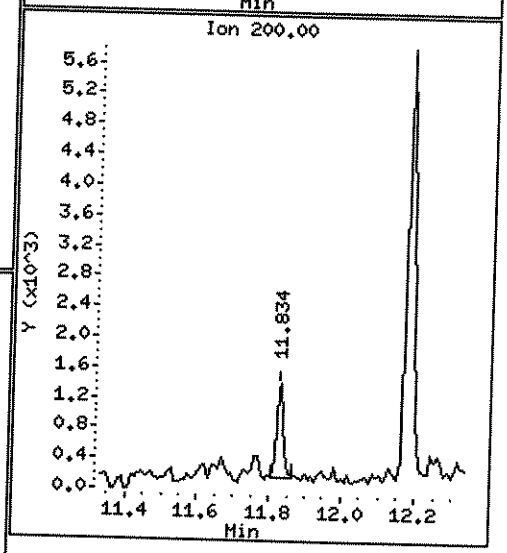
116 Fluoranthene

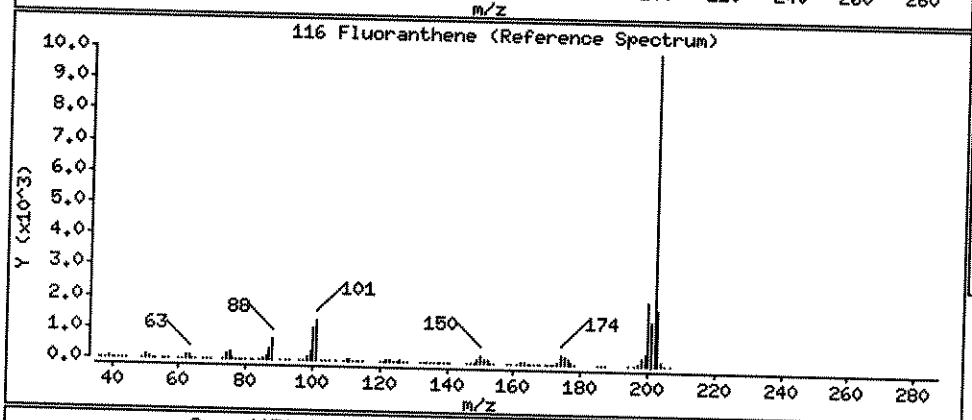
Concentration: 70.60 ug/Kg

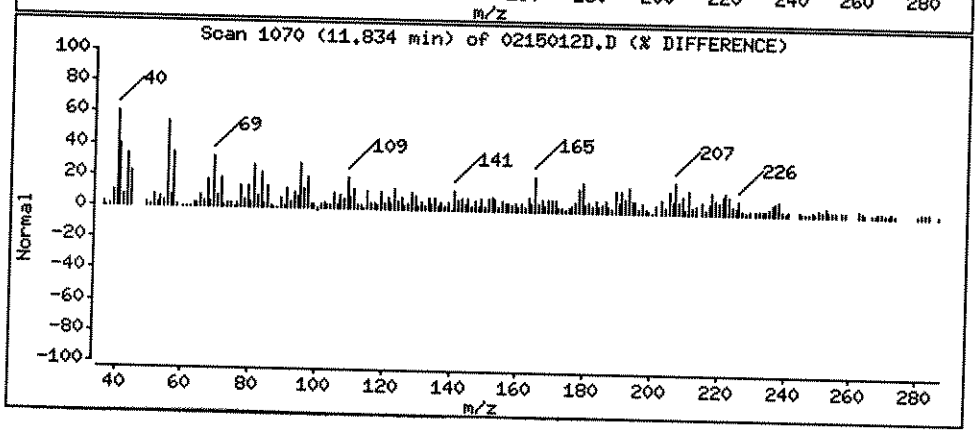












Data File: \\ELABNSH05\TARGET\chem\bna4.i\022412B4E.b\0215012D.D

Date : 25-FEB-2012 02:34

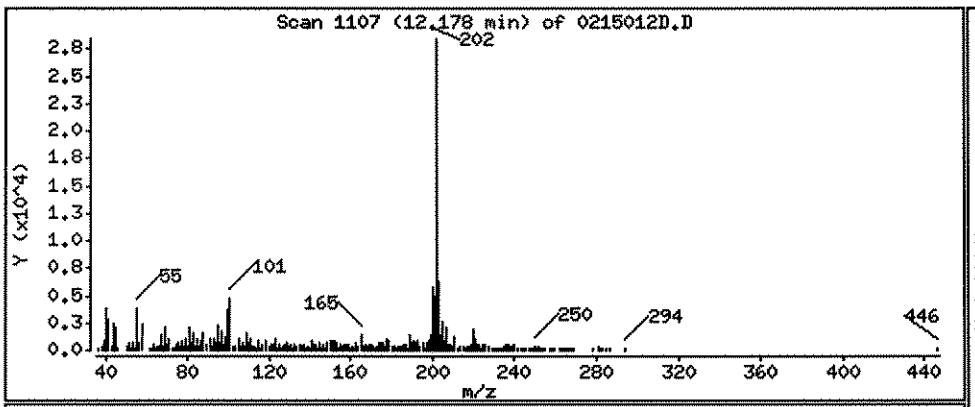
Client ID: FLC-4-DUP02-022112 Instrument: bna4.i

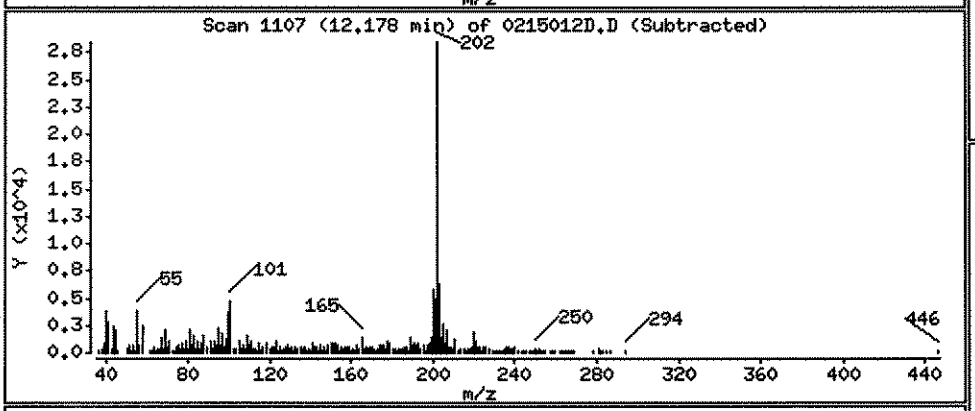
Sample Info: 1202150-12;10;15;1000;1;ug/Kg;22-FEB-2012

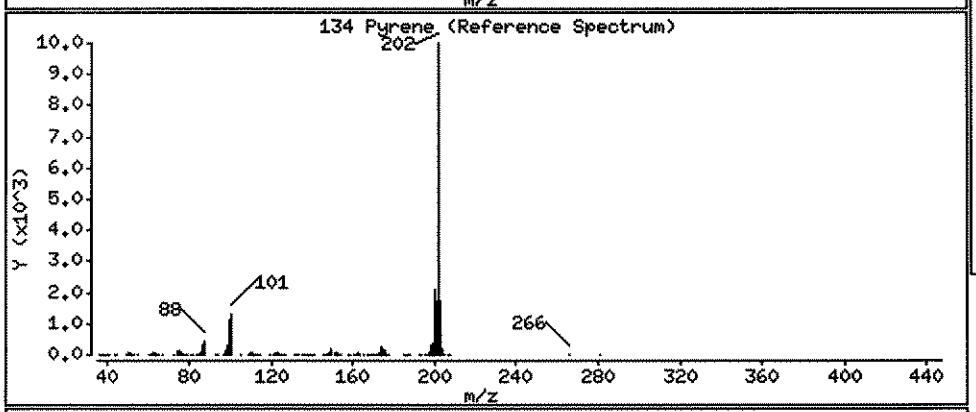
Volume Injected (uL): 1.0 Operator: MEC

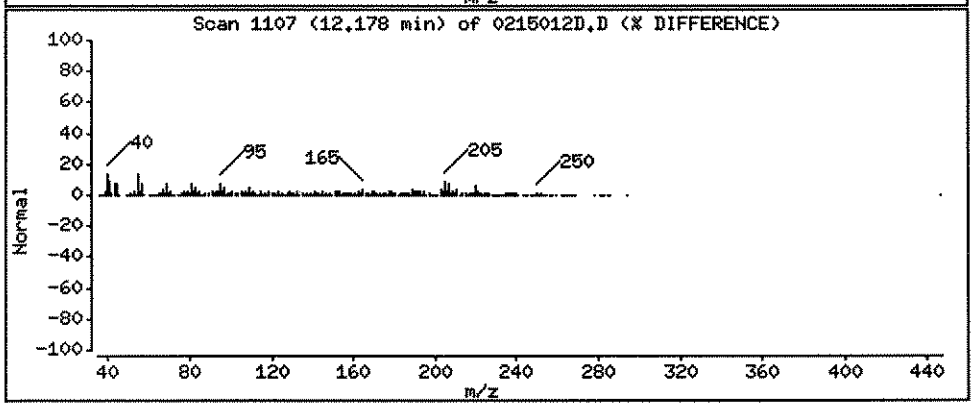
Column phase: fused silica Column diameter: 0.25

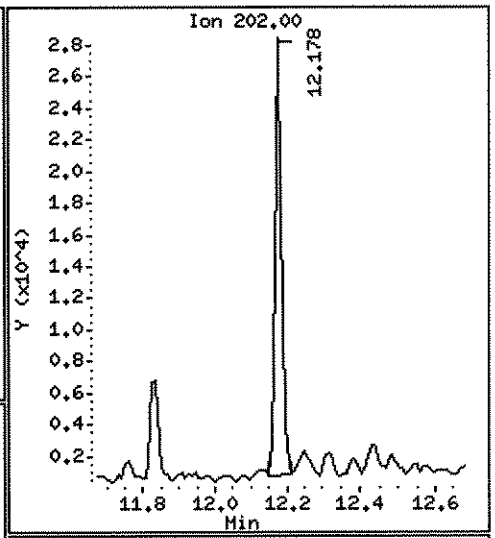
134 Pyrene Concentration: 243.6 ug/Kg

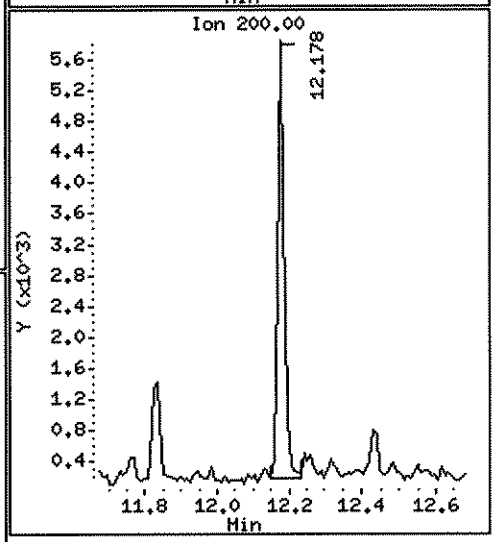












Data File: \\ELABNSHOS\TARGET\chem\bna4.i\022412B4E.b\0215012D.D

Date : 25-FEB-2012 02:34

Client ID: FLC-4-DUP02-022112

Instrument: bna4.i

Sample Info: 1202150-12;10;15;1000;1;ug/Kg;22-FEB-2012

Volume Injected (uL): 1.0

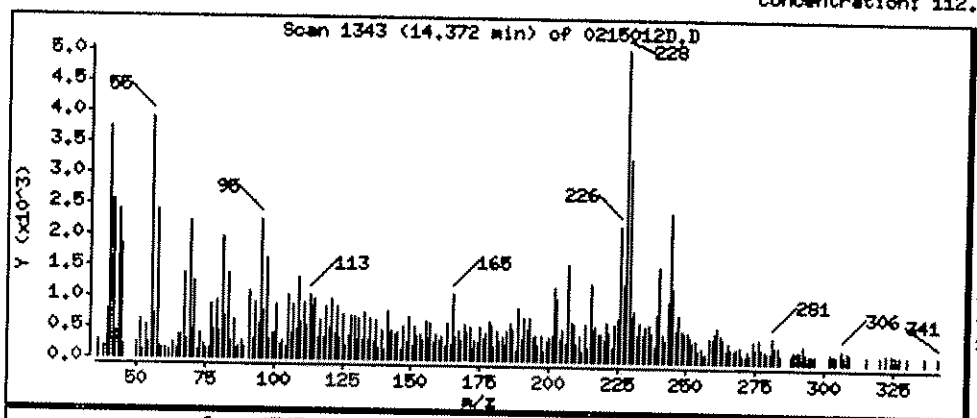
Operator: MEC

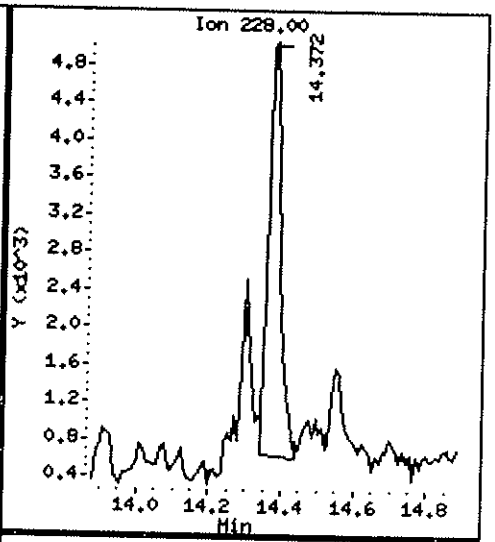
Column phase: fused silica

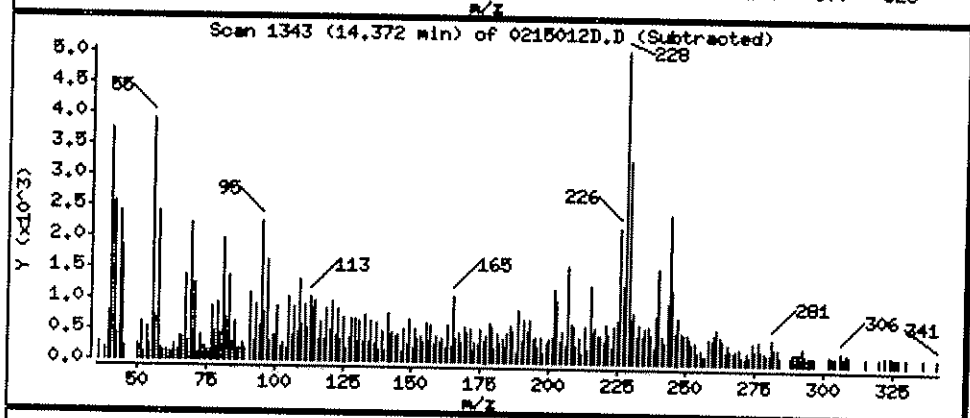
Column diameter: 0.25

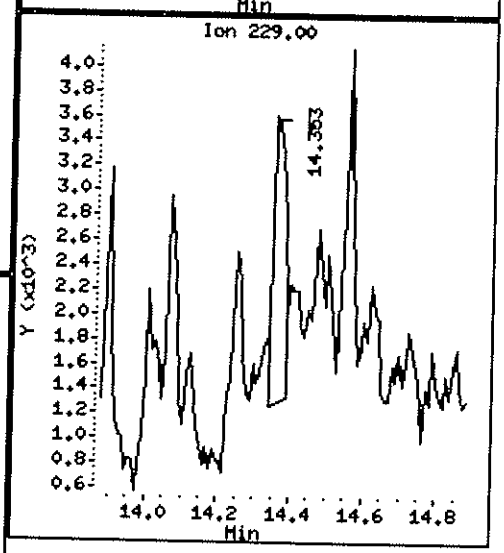
139 Chrysene

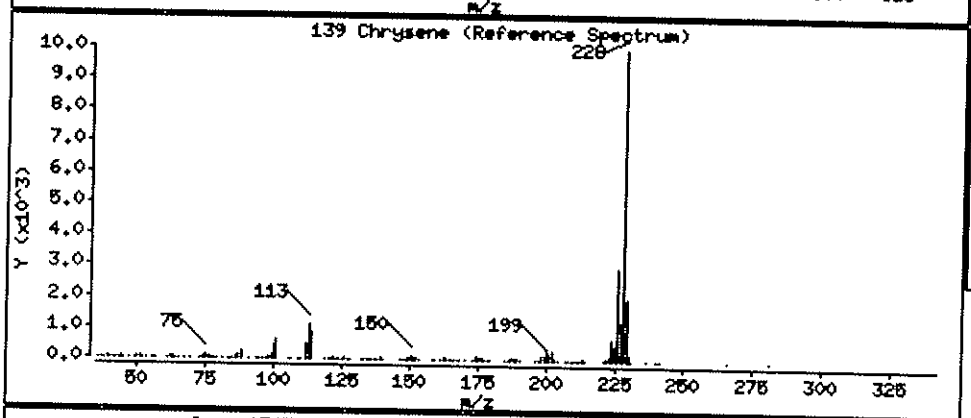
Concentration: 112.2 ug/Kg

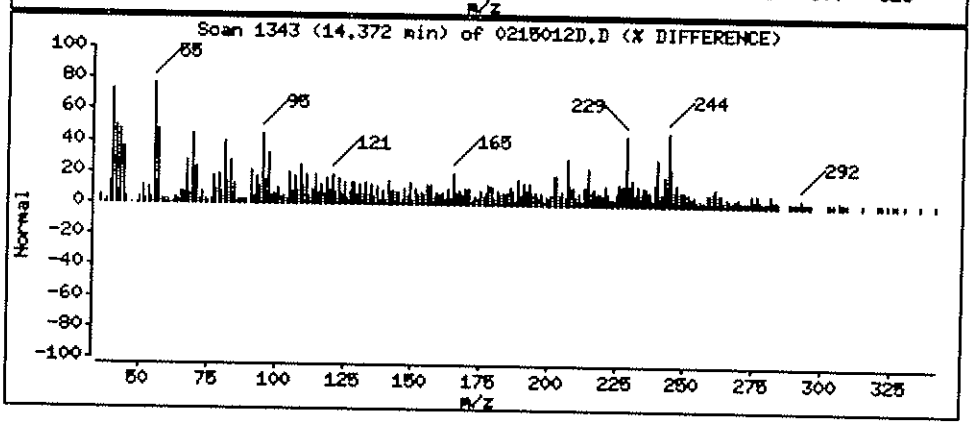












Data File: \\ELABNSH05\TARGET\chem\bna4.i\022412B4E.b\0215012D.D

Date : 25-FEB-2012 02:34

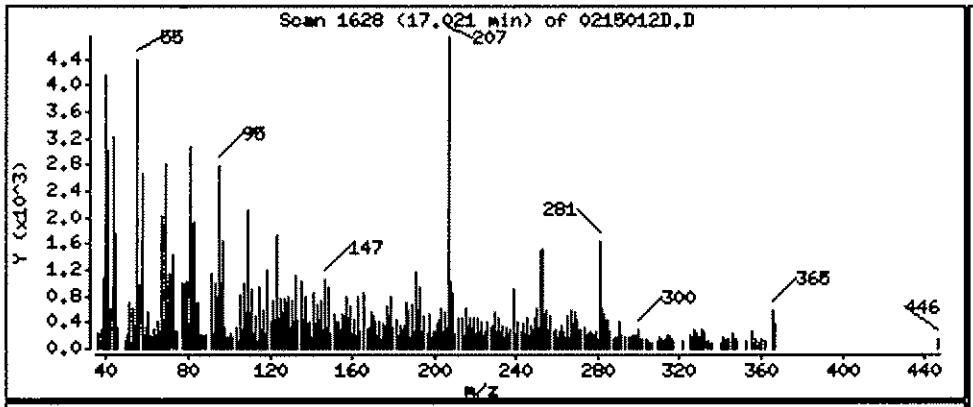
Client ID: FLC-4-DUP02-022112 Instrument: bna4.i

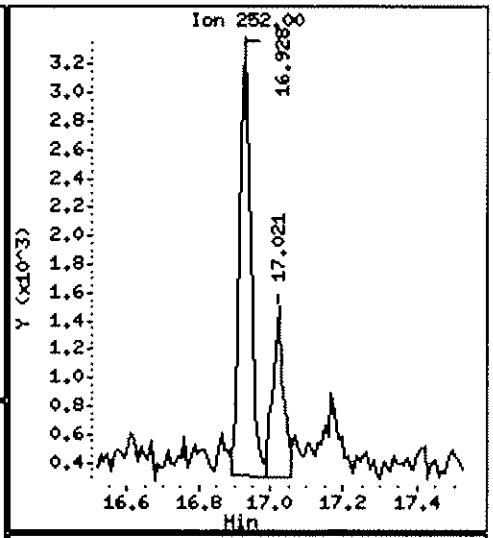
Sample Info: 1202150-12;10;15;1000;1;ug/Kg;22-FEB-2012

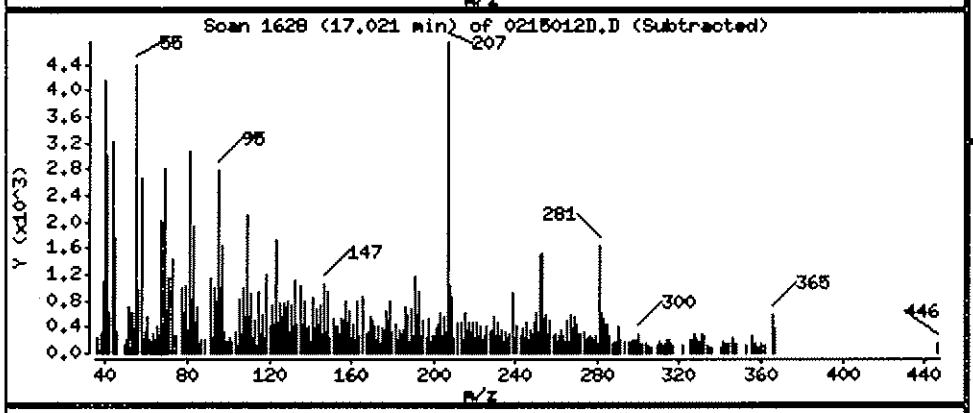
Volume Injected (uL): 1.0 Operator: MEC

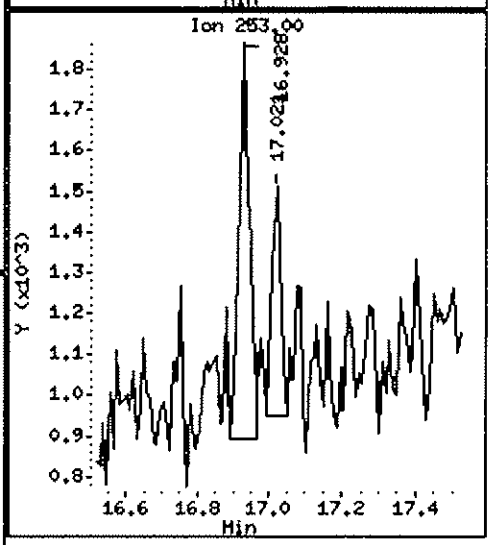
Column phase: fused silica Column diameter: 0.25

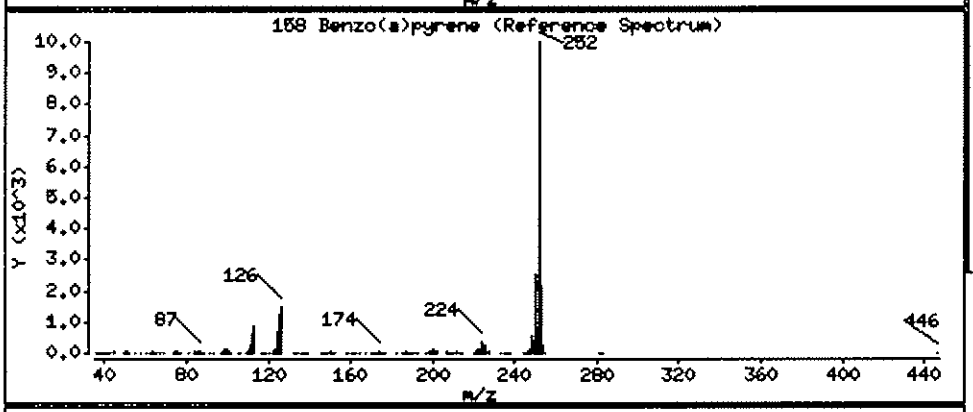
158 Benzo(a)pyrene Concentration: 46.86 ug/Kg

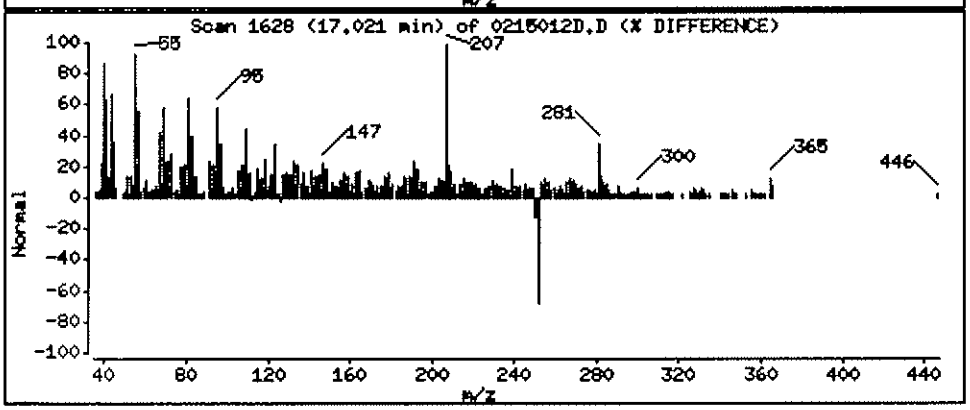












Data File: \\ELABNSH05\TARGET\chem\bna4.i\022412B4E.b\0215012D.D

Date : 25-FEB-2012 02:34

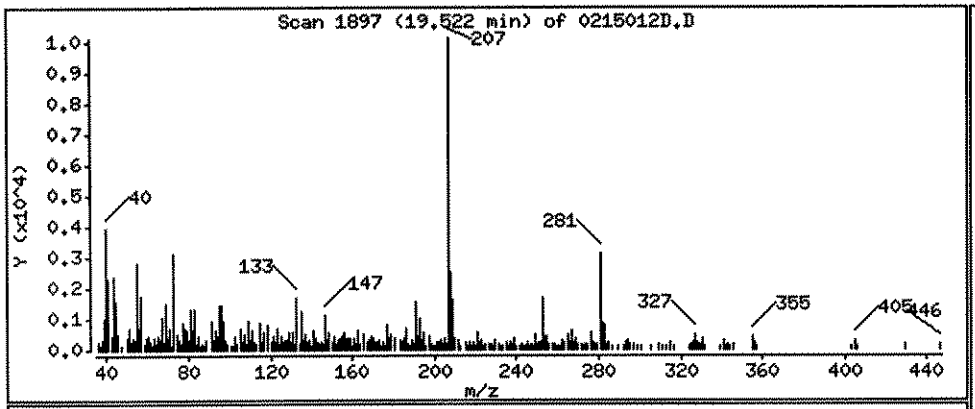
Client ID: FLC-4-DUP02-022112 | Instrument: bna4.i

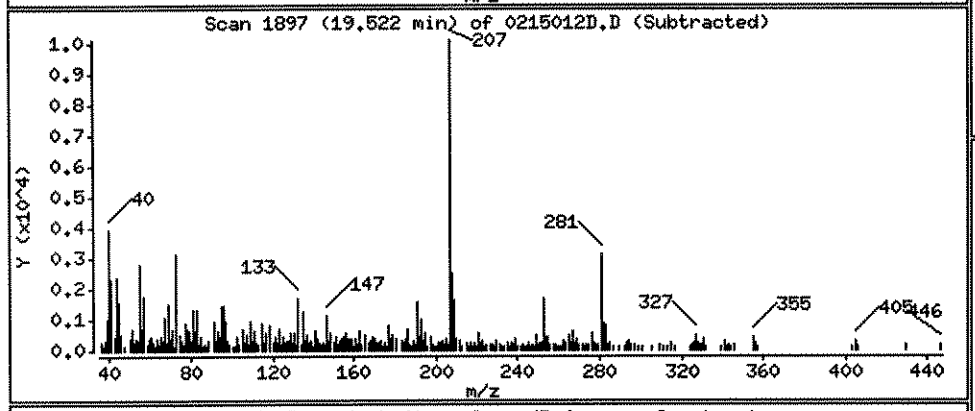
Sample Info: 1202150-12;10;15;1000;1;ug/Kg;22-FEB-2012

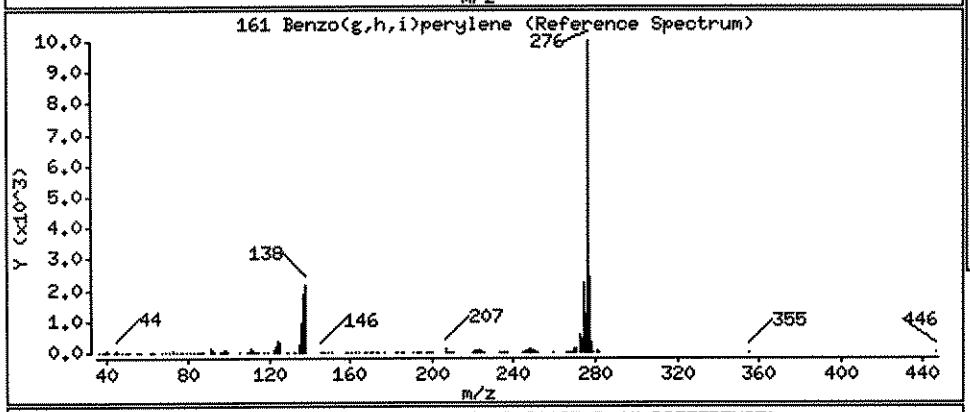
Volume Injected (uL): 1.0 | Operator: MEC

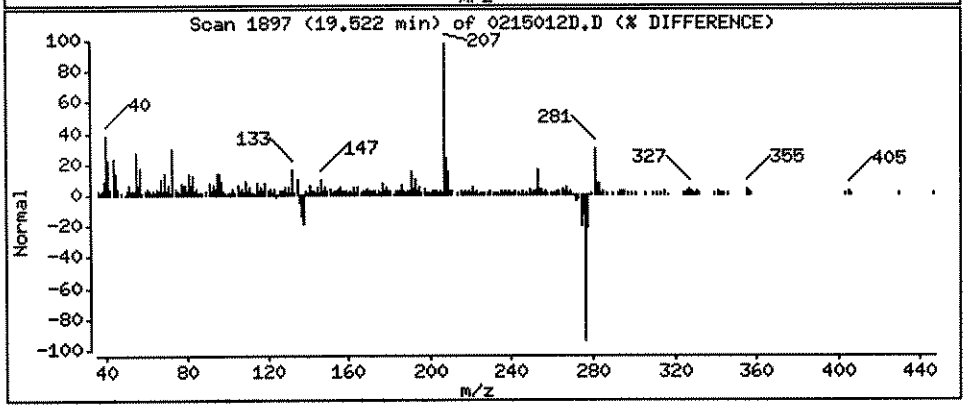
Column phase: fused silica | Column diameter: 0.25

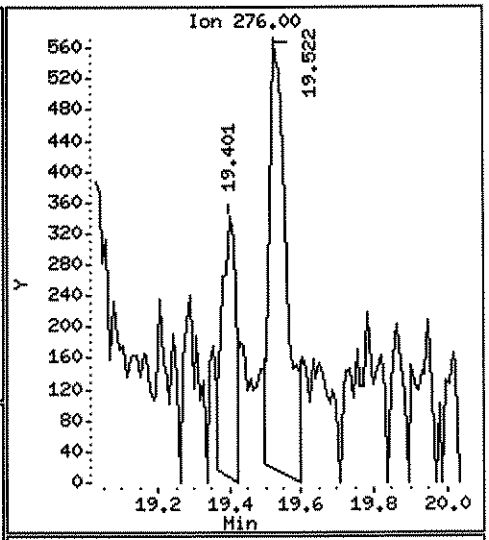
161 Benzo(g,h,i)perylene | Concentration: 48.18 ug/Kg

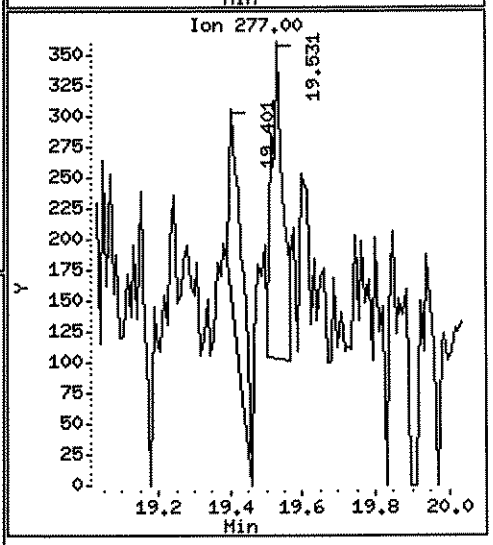












Data File: \\ELABNSH05\TARGET\chem\bna4.i\022412B4E.b\0215013.D
Report Date: 29-Feb-2012 12:13

Laboratory Name

Data file : \\ELABNSH05\TARGET\chem\bna4.i\022412B4E.b\0215013.D
Lab Smp Id: 1202150-13 Client Smp ID: FLC-4-DUP01-022112
Inj Date : 25-FEB-2012 03:02 MS Autotune Date: 15-FEB-2012 09:23
Operator : MEC Inst ID: bna4.i
Smp Info : 1202150-13;1;15;1000;1;ug/Kg;22-FEB-2012
Misc Info : ;0;;;;2B22014;pahlow.sub;
Comment :
Method : \\ELABNSH05\TARGET\chem\bna4.i\022412B4E.b\IXBN4LOW.m
Meth Date : 29-Feb-2012 12:10 mcobb Quant Type: ISTD
Cal Date : 20-FEB-2012 16:29 Cal File: SEQ-CAL1.D
Als bottle: 35
Dil Factor: 1.00000
Integrator: HP RTE Compound Sublist: pahlow.sub
Target Version: 4.04
Processing Host: TARGET09_VM

Concentration Formula: Amt * DF * Uf * Vt*Vi/(Amt * Vi * (Solids/100))

Name	Value	Description
DF	1.000	Dilution Factor
Uf	1.000	ng unit correction factor
Vt	1000.000	Volume of final extract (uL)(1000 low, 2
Amt	15.000	Mass of initial extraction
Vi	1.000	Volume injected (uL)
Solids	100.000	Percent Solids

PDW 3-1-12

Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS ON-COLUMN (ng/ul)	FINAL (ug/Kg)
51 Naphthalene	128	6.274	6.274	(0.615)	22305	0.20517	13.68
55 2-Methylnaphthalene	142	7.092	7.092	(0.696)	13230	0.18678	12.45
56 1-Methylnaphthalene	142	7.222	7.232	(0.708)	7881	0.11486	7.658
$ 74 2-Fluorobiphenyl	172	7.557	7.557	(0.741)	2986962	34.5467	2303
77 Acenaphthylene	152	8.208	8.208	(0.805)	91684	0.89930	59.95
80 Acenaphthene	153	8.431	8.431	(0.827)	3602	0.05256	3.504
* 102 Phenanthrene-d10	188	10.197	10.197	(1.000)	107547	1.00000	
111 Phenanthrene	178	10.225	10.225	(1.003)	123135	1.15936	77.29
112 Anthracene	178	10.281	10.281	(1.008)	26960	0.26328	17.55
116 Fluoranthene	202	11.833	11.833	(1.160)	311701	2.85640	190.4
134 Pyrene	202	12.177	12.177	(1.194)	486903	4.33159	288.8
* 154 Perylene-d12	264	17.132	17.123	(1.000)	45943	1.00000	
$ 135 Terphenyl-d14	244	12.438	12.428	(1.220)	3318231	44.6445	2976

MEC 2/29/12

Data File: \\ELABNSH05\TARGET\chem\bna4.i\022412B4E.b\0215013.D
Report Date: 29-Feb-2012 12:13

Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS ON-COLUMN (ng/ul)	FINAL (ug/Kg)
138 Benzo(a)anthracene	228	14.297	14.297	(1.402)	131454	1.85274	123.5
139 Chrysene	228	14.381	14.381	(1.410)	237635	3.35037	223.4
156 Benzo(b)fluoranthene	252	16.407	16.407	(0.958)	132196	2.29477	153.0(M)
157 Benzo(k)fluoranthene	252	16.444	16.454	(0.960)	142681	2.51371	167.6(M)
158 Benzo(a)pyrene	252	17.021	17.021	(0.993)	106817	2.47359	164.9
159 Indeno(1,2,3-cd)pyrene	276	19.038	19.038	(1.111)	46124	1.34416	89.61
160 Dibenz(a,h)anthracene	278	19.066	19.066	(1.113)	14941	0.54688	36.46
161 Benzo(g,h,i)perylene	276	19.540	19.531	(1.141)	50903	1.64680	109.8

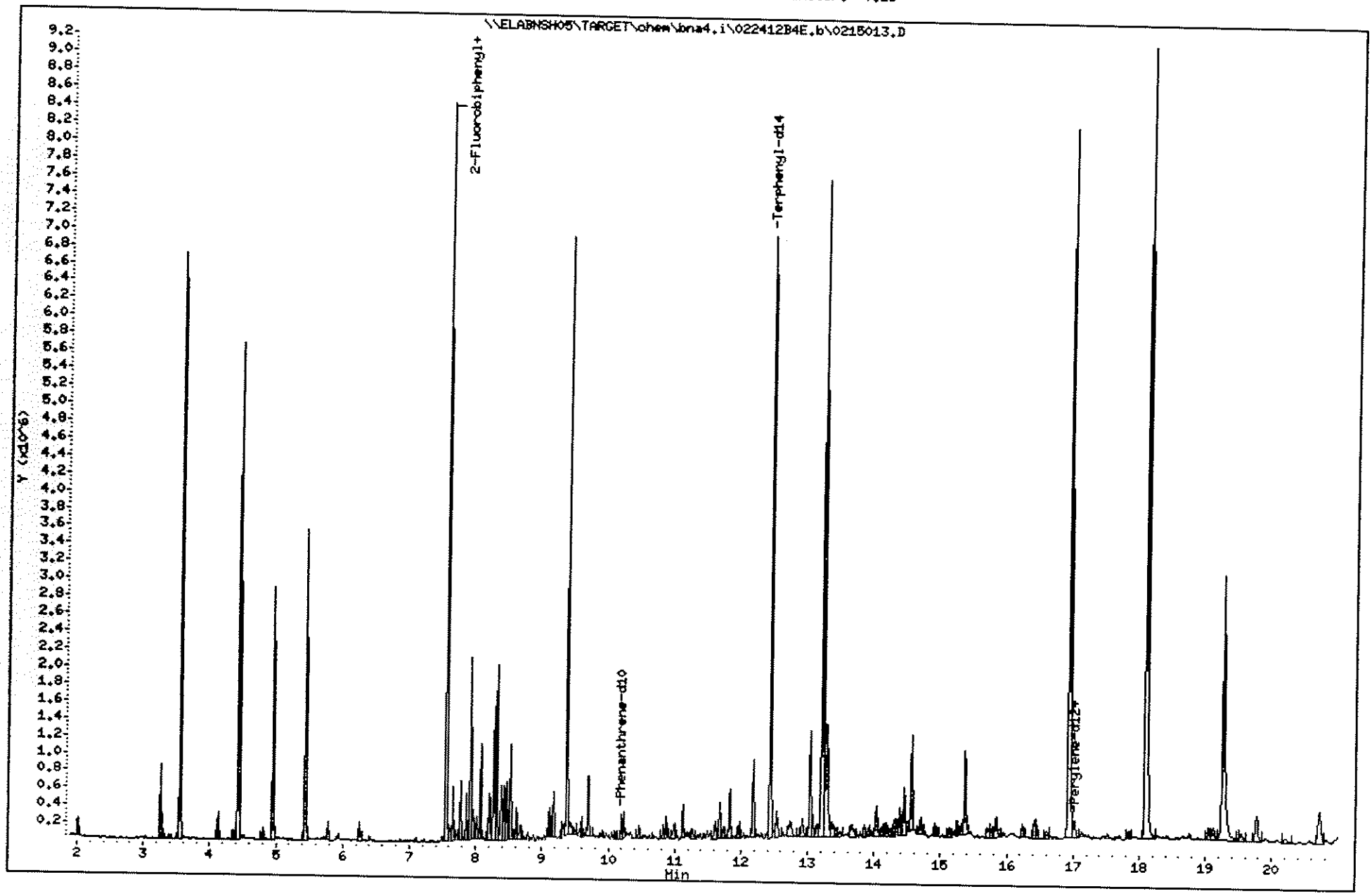
QC Flag Legend

M - Compound response manually integrated.

Data File: \\ELABNSH05\TARGET\chem\bna4.i\022412B4E.b\0215013.D
Date : 25-FEB-2012 03:02
Client ID: FLC-4-DUP01-022112
Sample Info: 1202150-13;1;15;1000;1;ug/Kg;22-FEB-2012
Volume Injected (uL): 1.0
Column phase: fused silica

Instrument: bna4.i

Operator: MEC
Column diameter: 0.25



305

1202150

Data File: \\ELABNSH05\TARGET\chem\bna4.i\022412B4E.b\0215013.D

Date : 25-FEB-2012 03:02

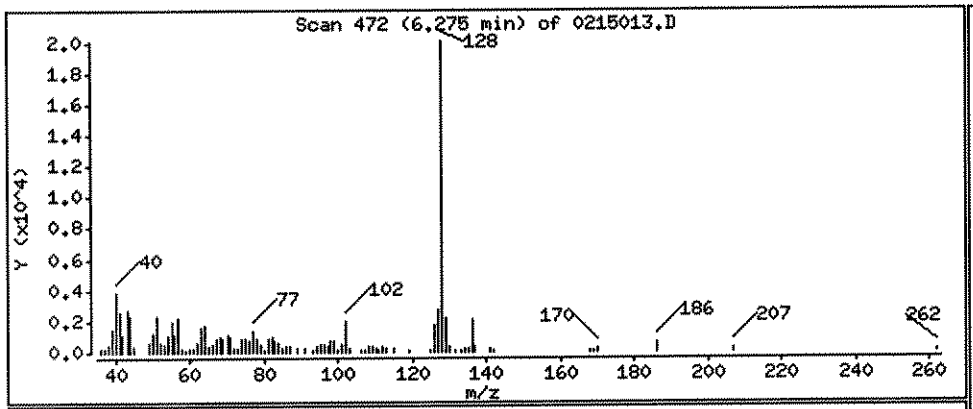
Client ID: FLC-4-DUP01-022112 Instrument: bna4.i

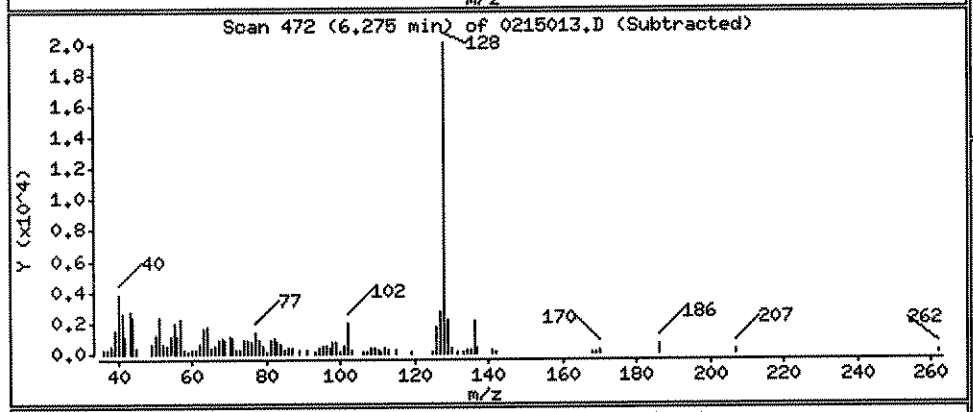
Sample Info: 1202150-13;1;15;1000;1;ug/Kg;22-FEB-2012

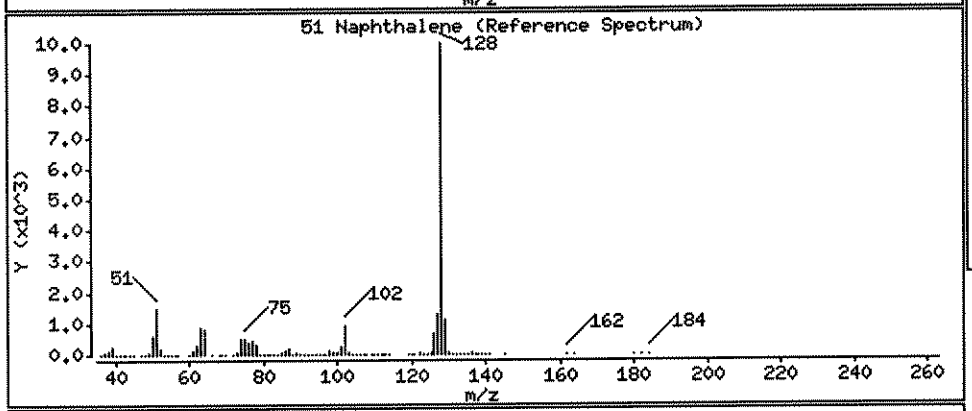
Volume Injected (uL): 1.0 Operator: MEC

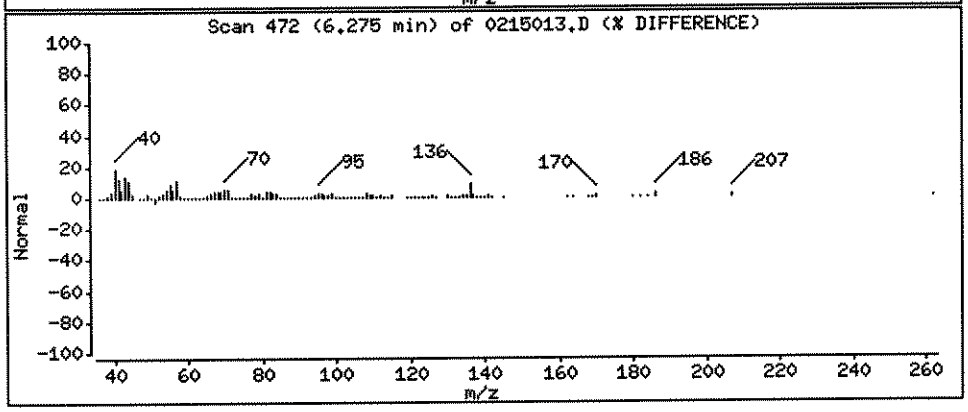
Column phase: fused silica Column diameter: 0.25

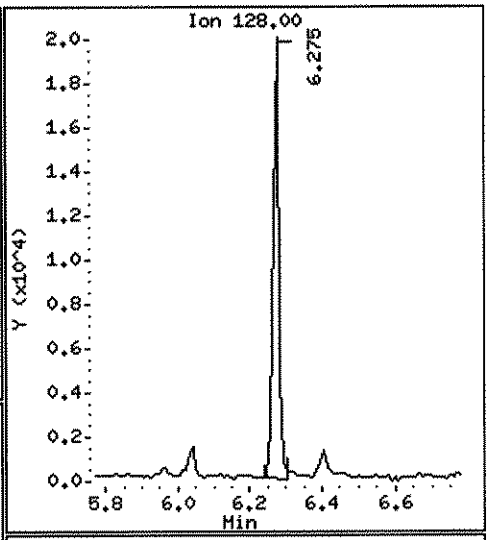
51 Naphthalene Concentration: 13.68 ug/Kg

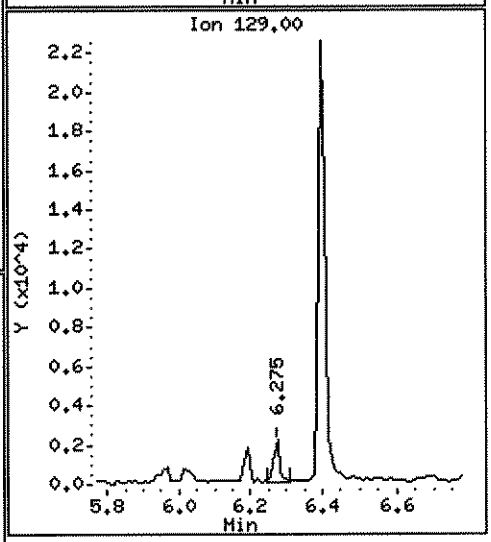












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Date : 25-FEB-2012 03:02

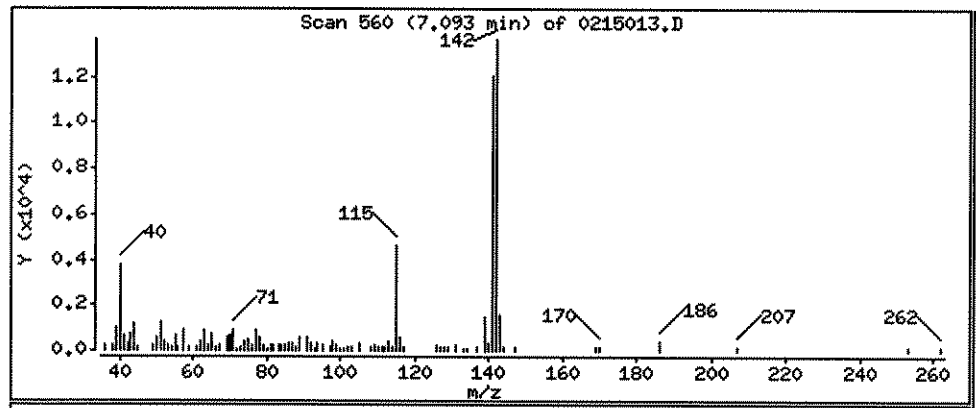
Client ID: FLC-4-DUP01-022112 | Instrument: bna4.i

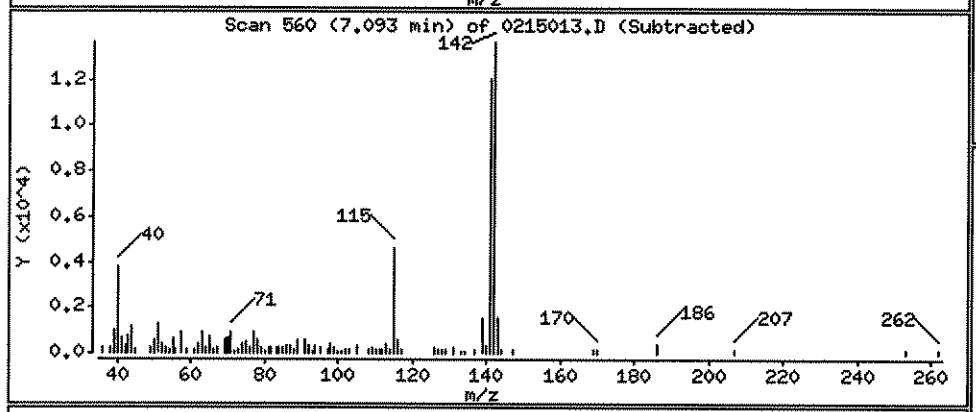
Sample Info: 1202150-13;1;15;1000;1;ug/Kg;22-FEB-2012

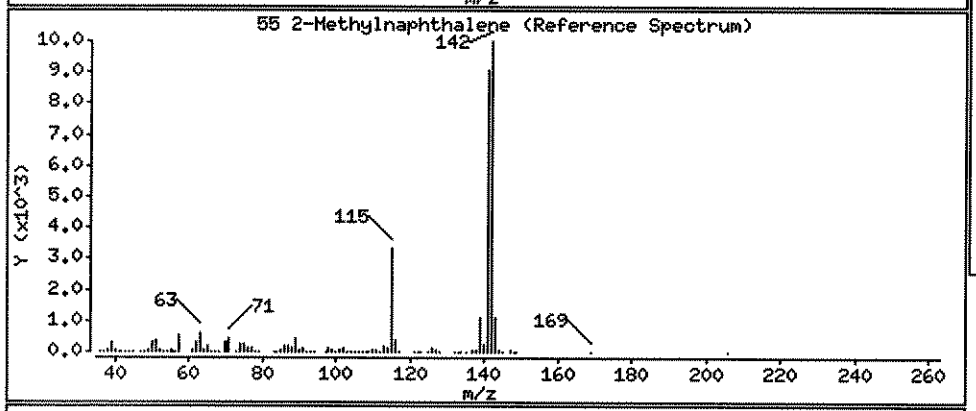
Volume Injected (uL): 1.0 | Operator: MEC

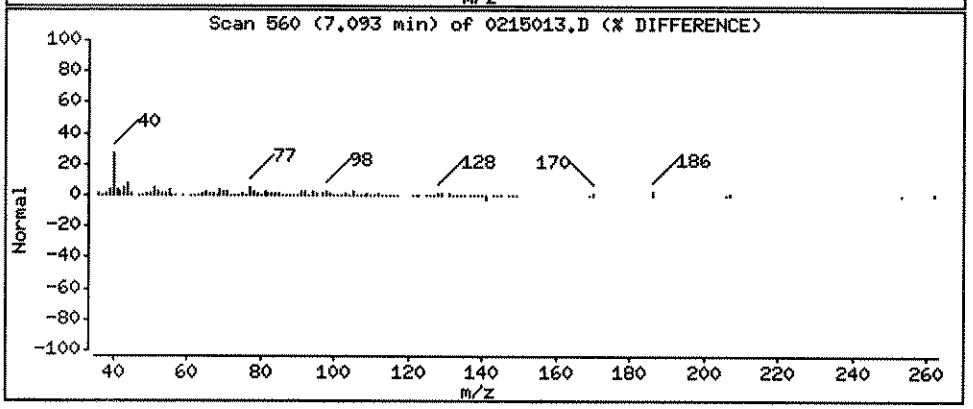
Column phase: fused silica | Column diameter: 0.25

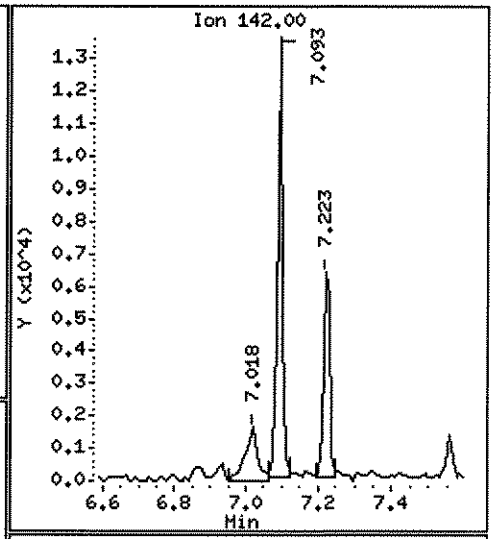
55 2-Methylnaphthalene | Concentration: 12.45 ug/Kg

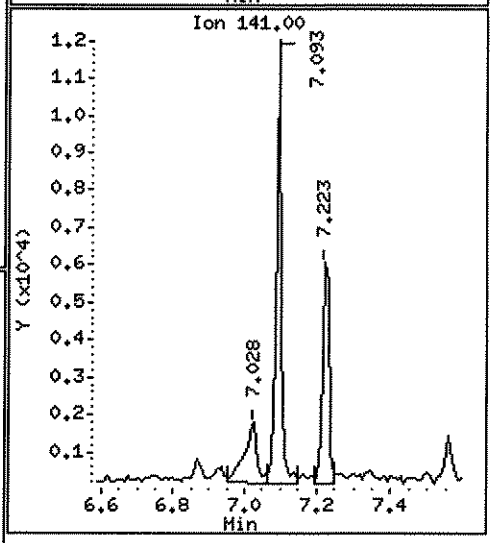












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Date : 25-FEB-2012 03:02

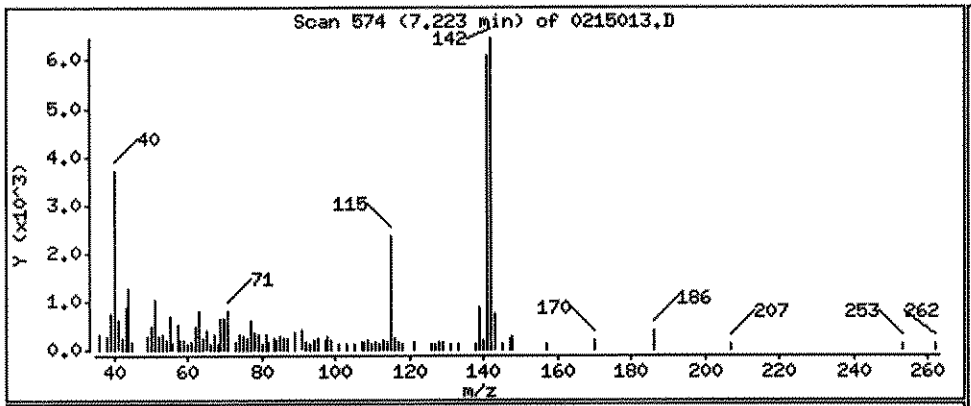
Client ID: FLC-4-DUP01-022112 Instrument: bna4.i

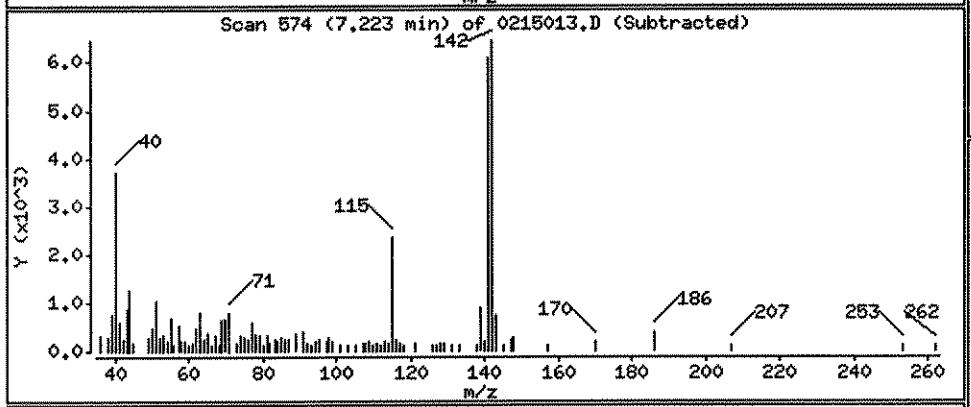
Sample Info: 1202150-13;1;15;1000;1;ug/Kg;22-FEB-2012

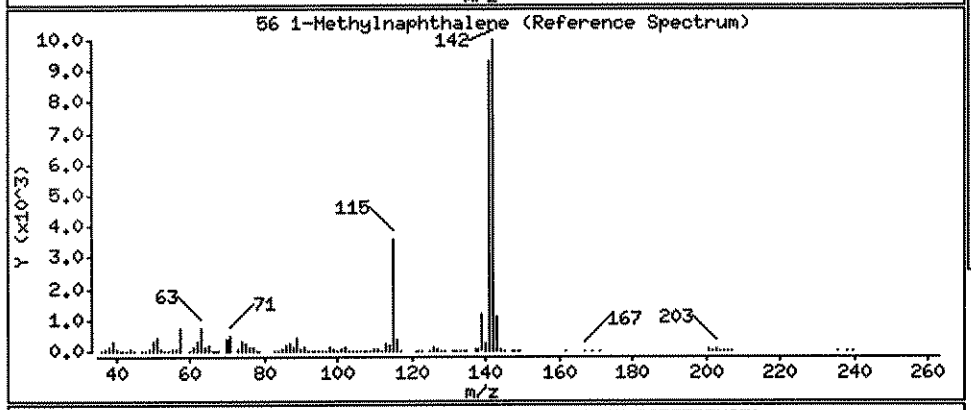
Volume Injected (uL): 1.0 Operator: MEC

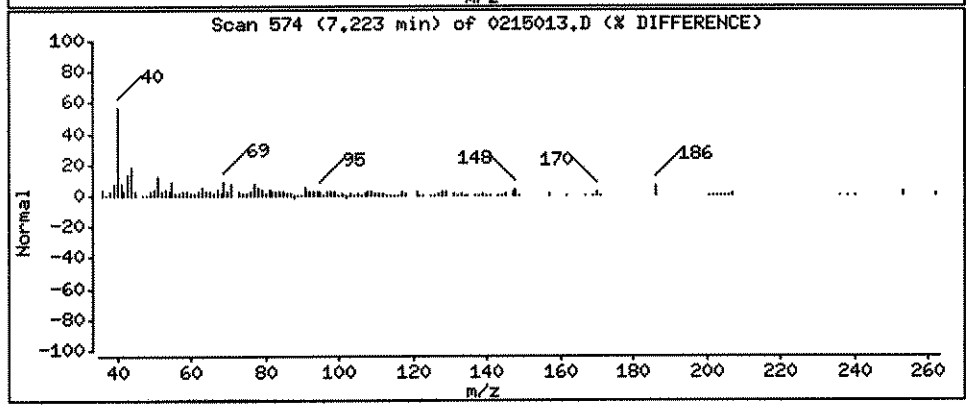
Column phase: fused silica Column diameter: 0.25

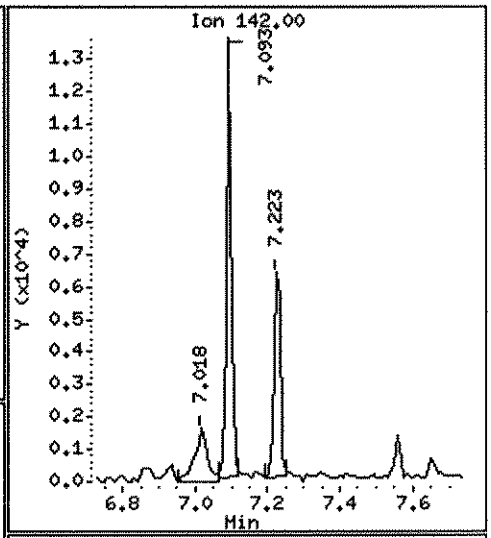
56 1-Methylnaphthalene Concentration: 7.658 ug/Kg

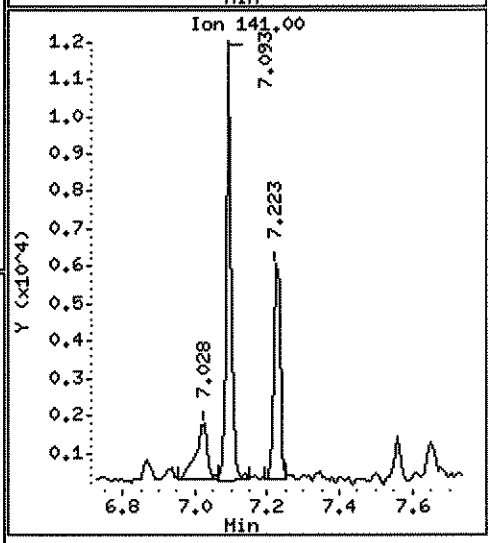












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Date : 25-FEB-2012 03:02

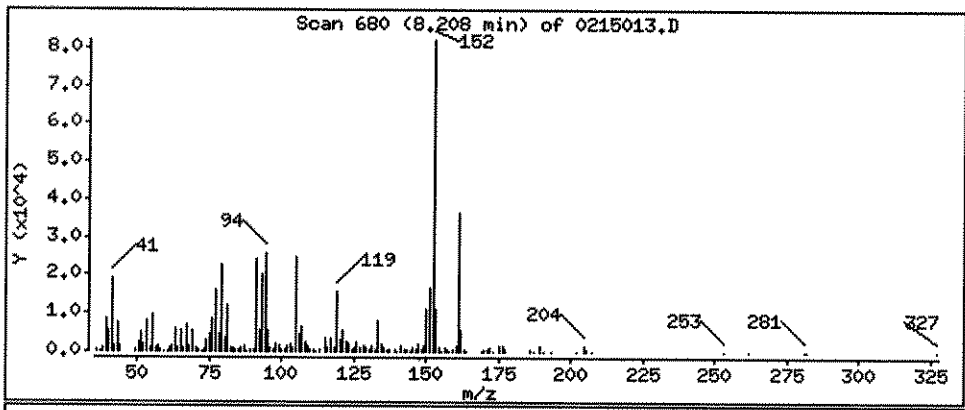
Client ID: FLC-4-DUP01-022112 Instrument: bna4.i

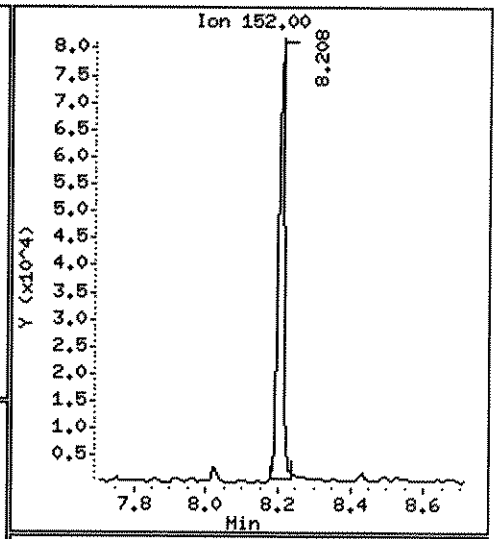
Sample Info: 1202150-13;1;15;1000;1;ug/Kg;22-FEB-2012

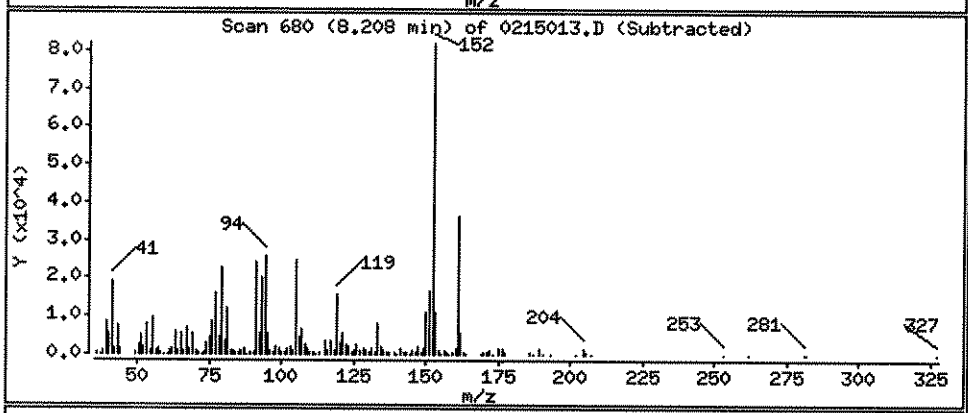
Volume Injected (uL): 1.0 Operator: MEC

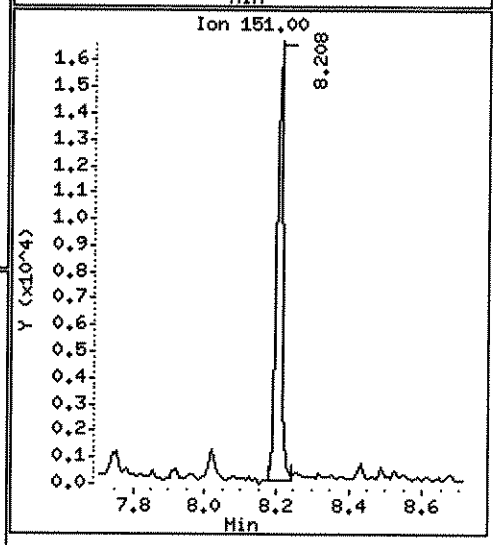
Column phase: fused silica Column diameter: 0.25

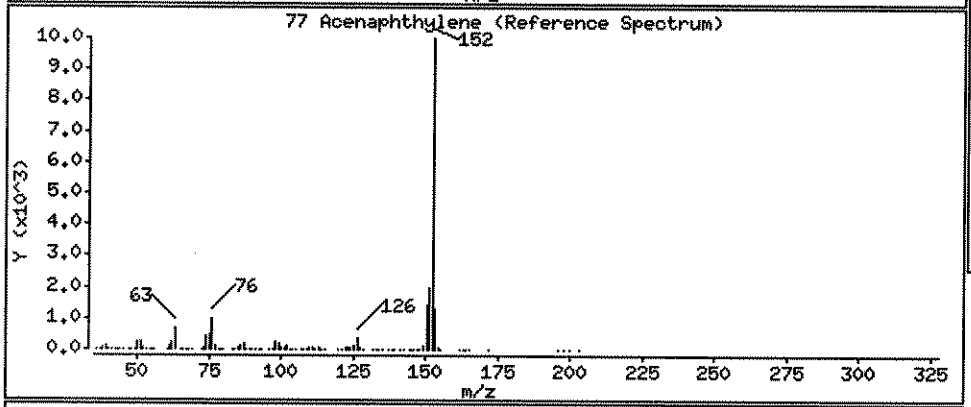
77 Acenaphthylene Concentration: 59.95 ug/Kg

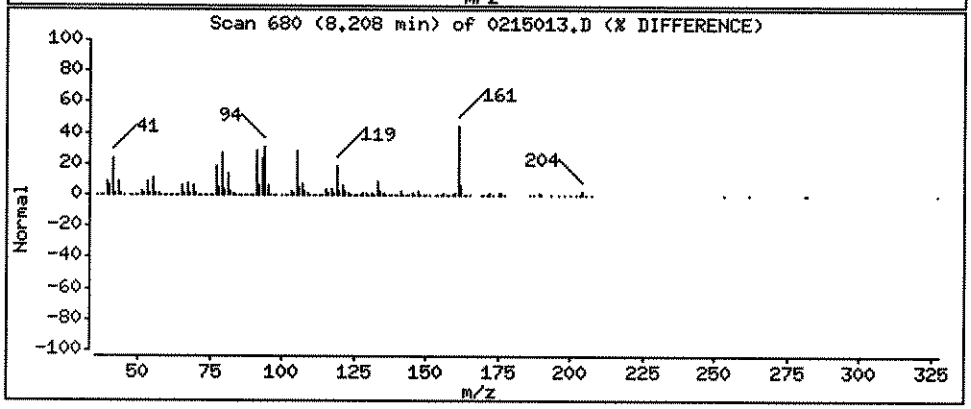












Data File: \\ELABNSH05\TARGET\chem\bna4.i\022412B4E.b\0215013.D

Date : 25-FEB-2012 03:02

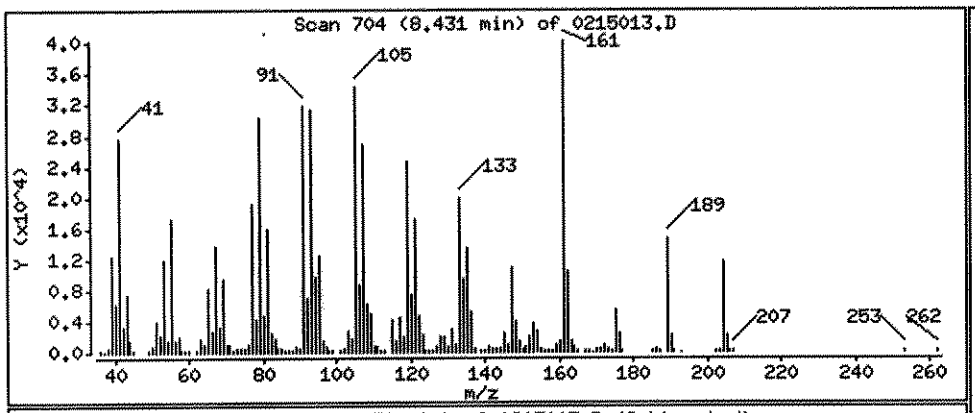
Client ID: FLC-4-DUP01-022112 Instrument: bna4.i

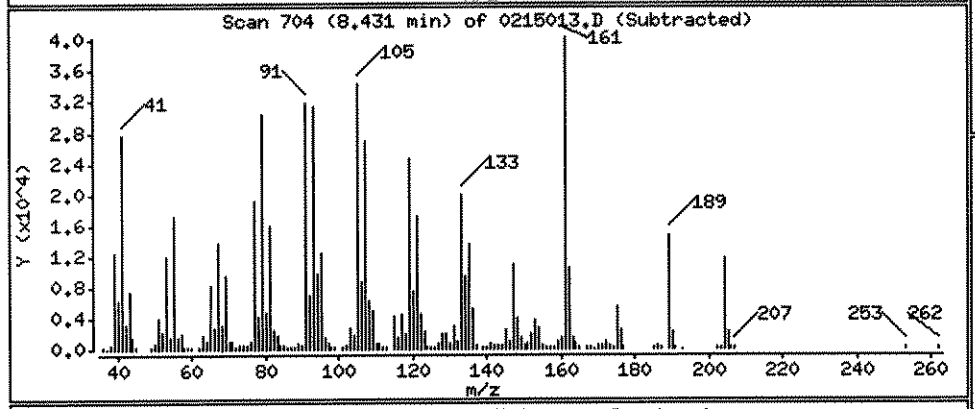
Sample Info: 1202150-13;1;15;1000;1;ug/Kg;22-FEB-2012

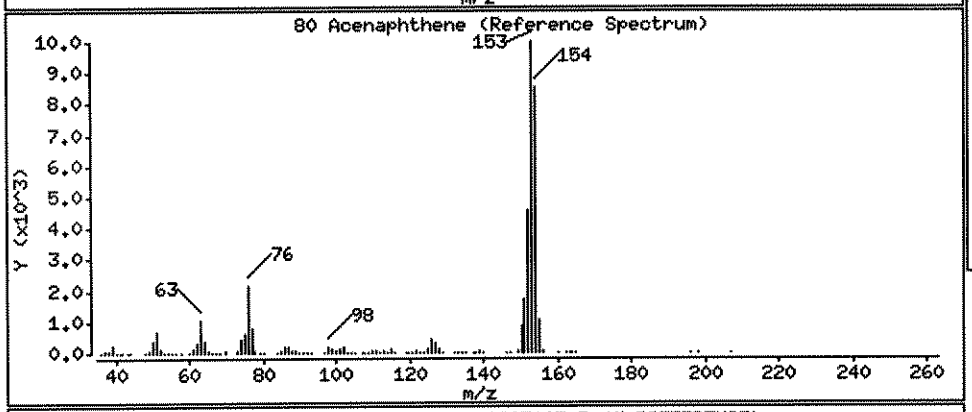
Volume Injected (uL): 1.0 Operator: MEC

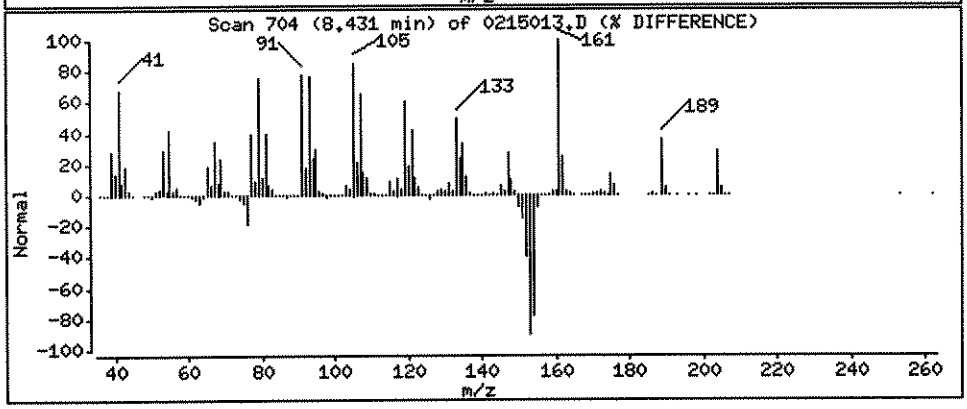
Column phase: fused silica Column diameter: 0.25

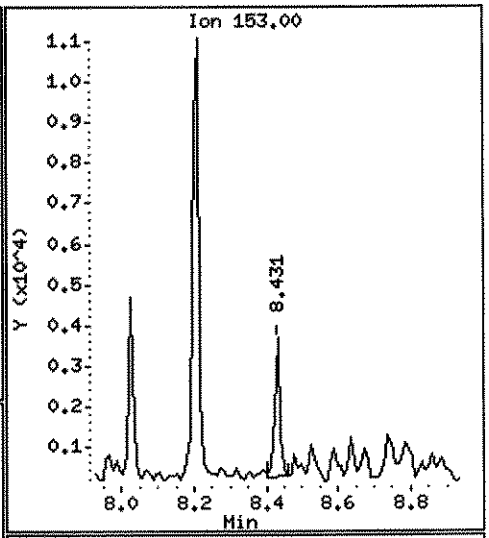
80 Acenaphthene Concentration: 3.504 ug/Kg

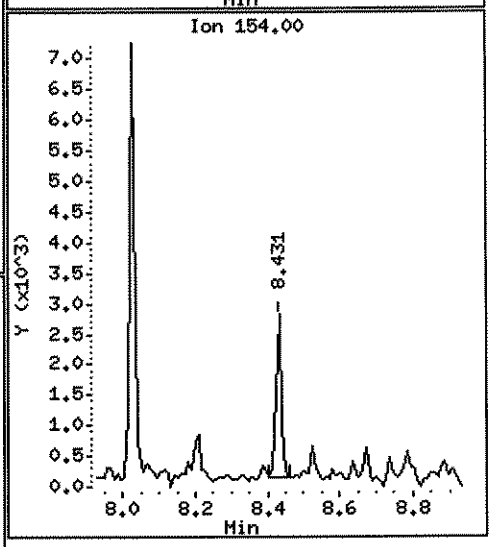












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Date : 25-FEB-2012 03:02

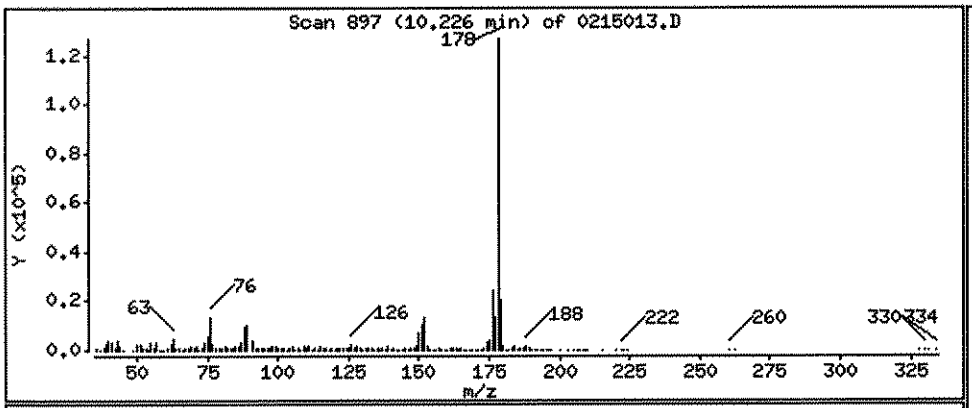
Client ID: FLC-4-DUP01-022112 Instrument: bna4.i

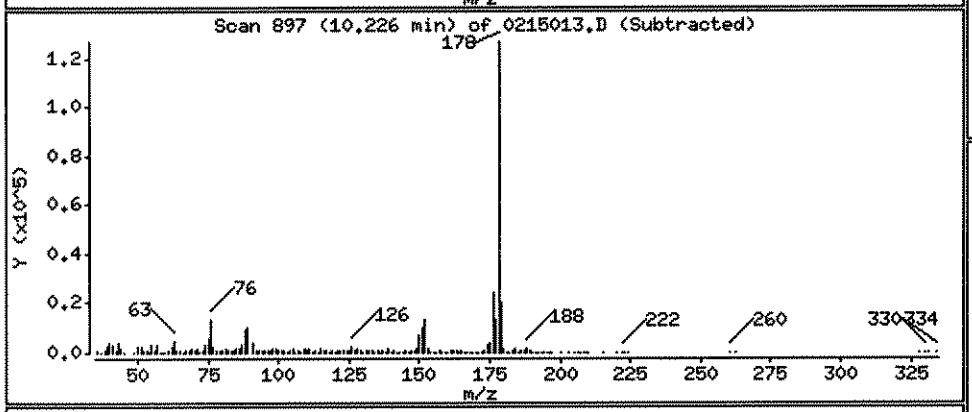
Sample Info: 1202150-13;1;15;1000;1;ug/Kg;22-FEB-2012

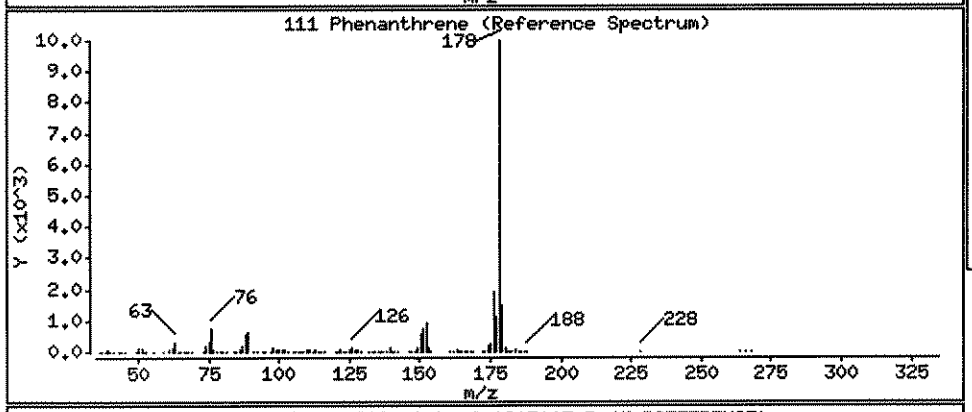
Volume Injected (uL): 1.0 Operator: MEC

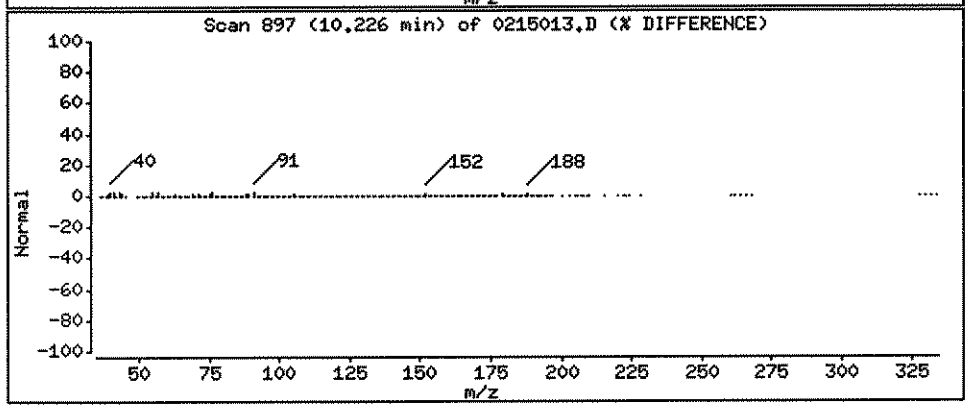
Column phase: fused silica Column diameter: 0.25

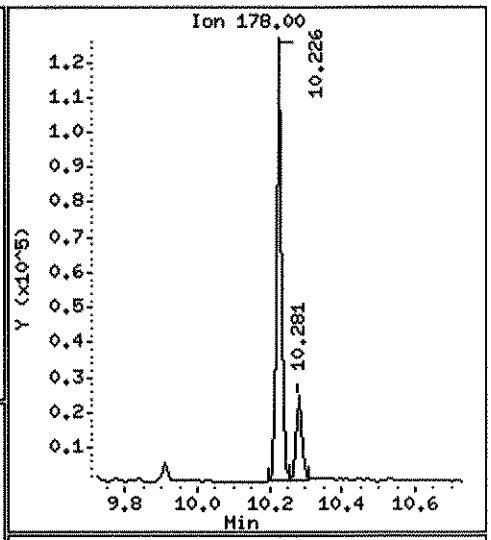
111 Phenanthrene Concentration: 77.29 ug/Kg

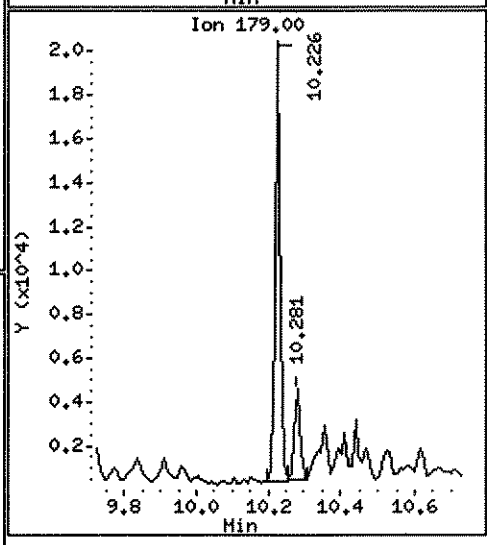












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Date : 25-FEB-2012 03:02

Client ID: FLC-4-DUP01-022112

Instrument: bna4.i

Sample Info: 1202150-13;1;15;1000;1;ug/Kg;22-FEB-2012

Volume Injected (uL): 1.0

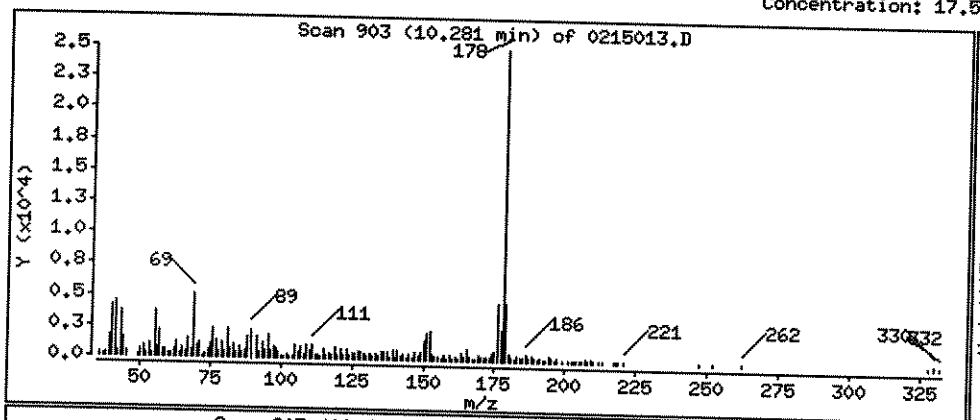
Operator: MEC

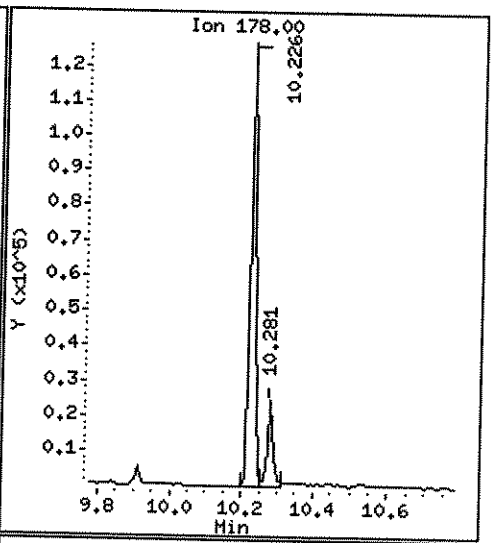
Column phase: fused silica

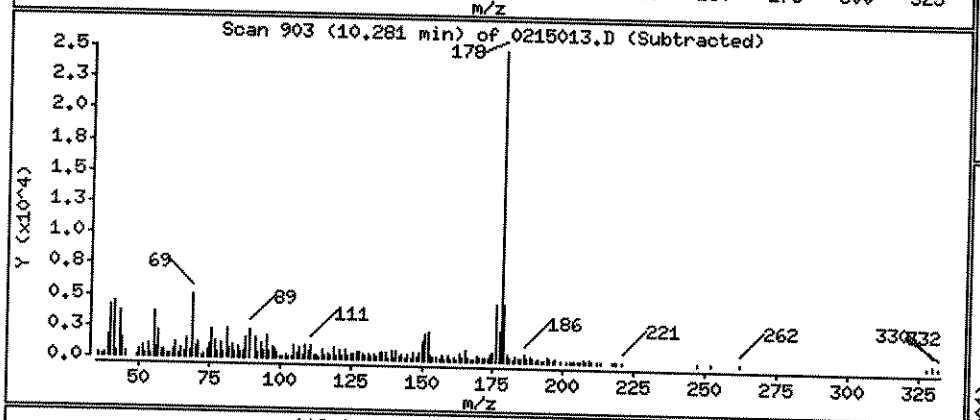
Column diameter: 0.25

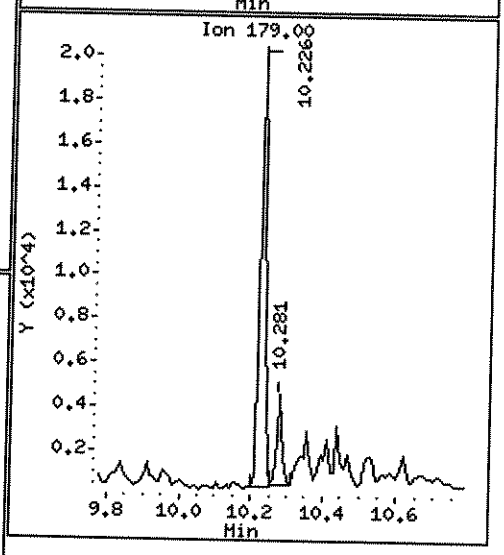
112 Anthracene

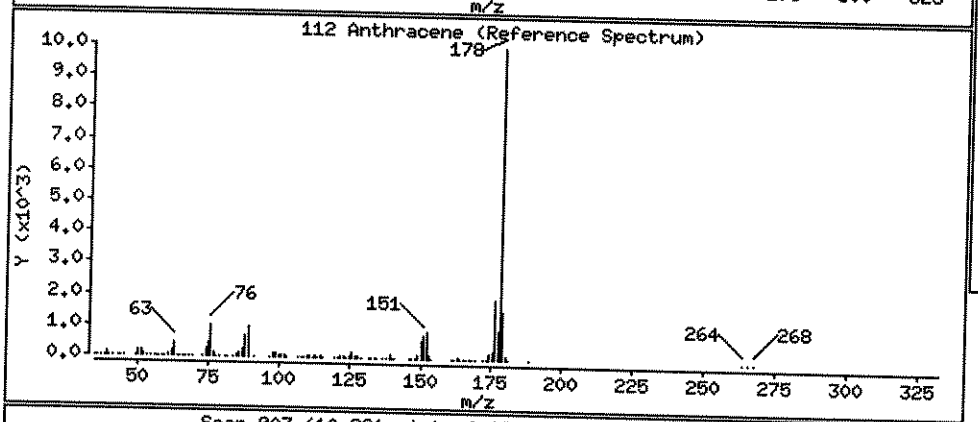
Concentration: 17.55 ug/Kg

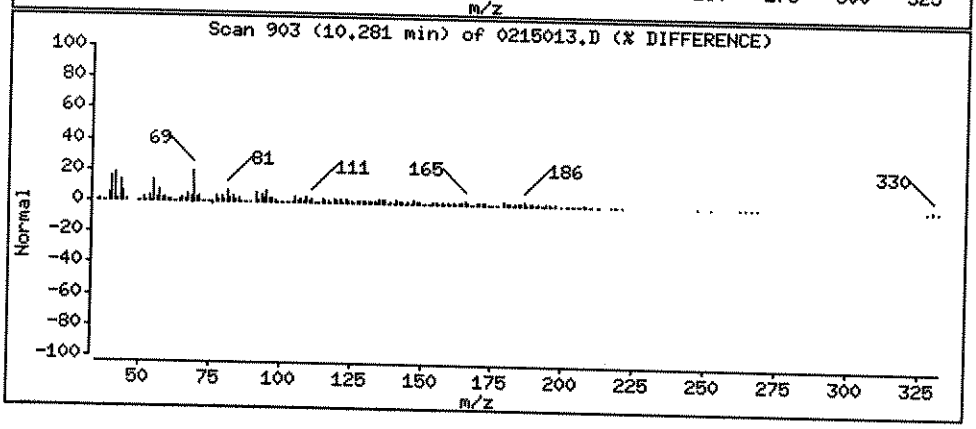












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Date : 25-FEB-2012 03:02

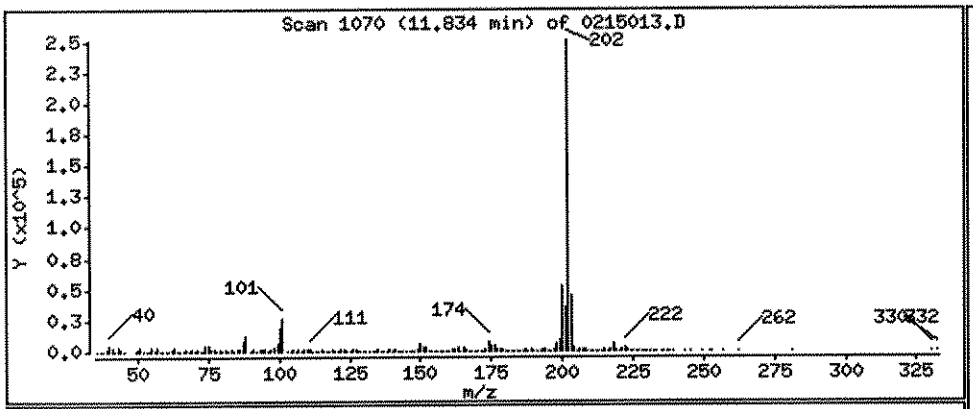
Client ID: FLC-4-DUP01-022112 Instrument: bna4.i

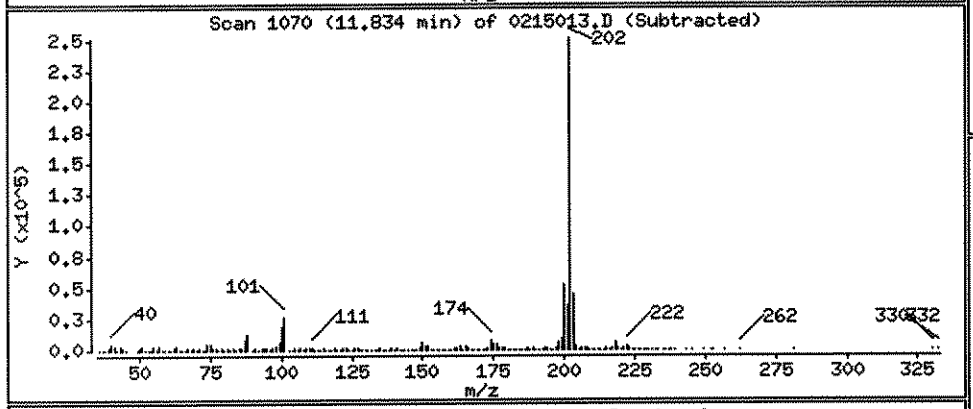
Sample Info: 1202150-13;1;15;1000;1;ug/Kg;22-FEB-2012

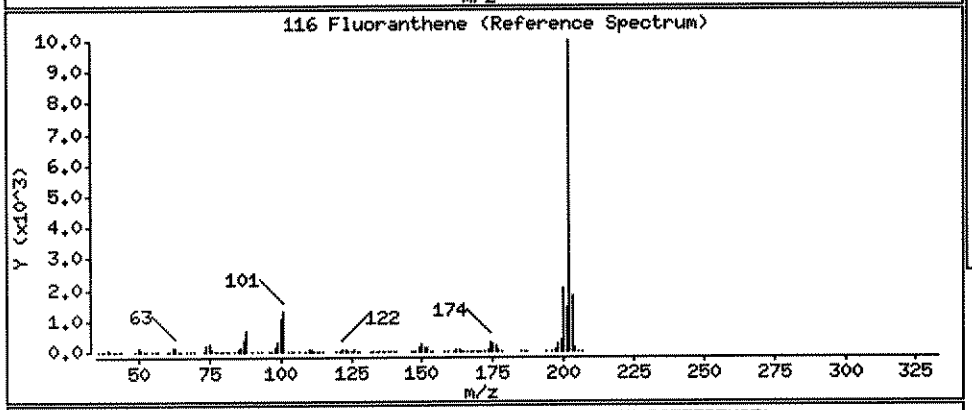
Volume Injected (uL): 1.0 Operator: MEC

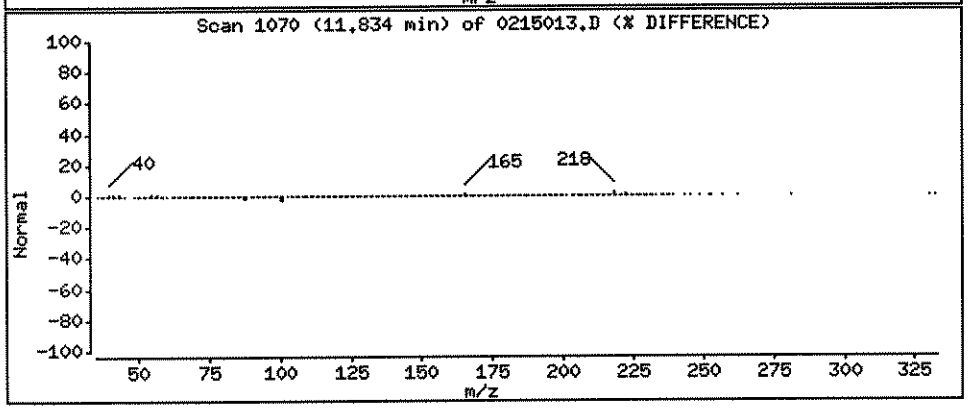
Column phase: fused silica Column diameter: 0.25

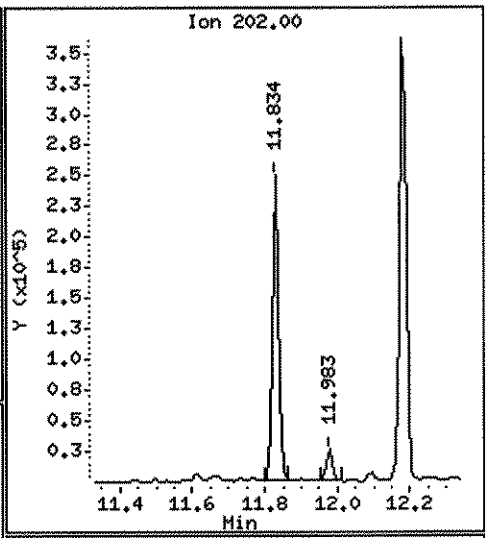
116 Fluoranthene Concentration: 190.4 ug/Kg

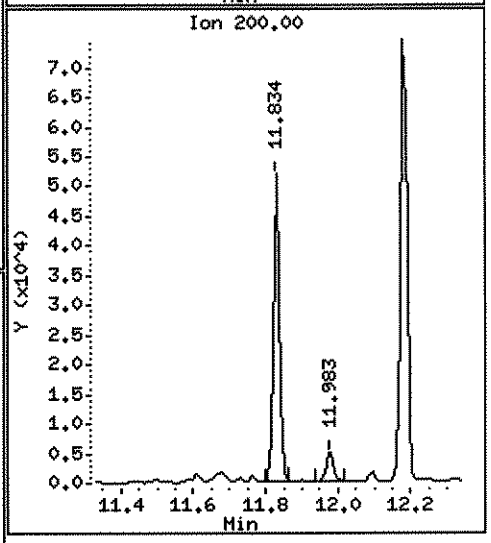












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Date : 25-FEB-2012 03:02

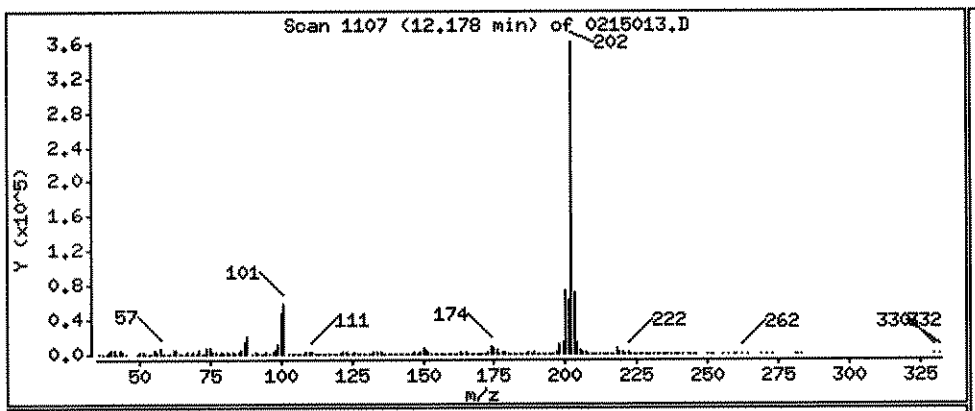
Client ID: FLC-4-DUP01-022112 Instrument: bna4.i

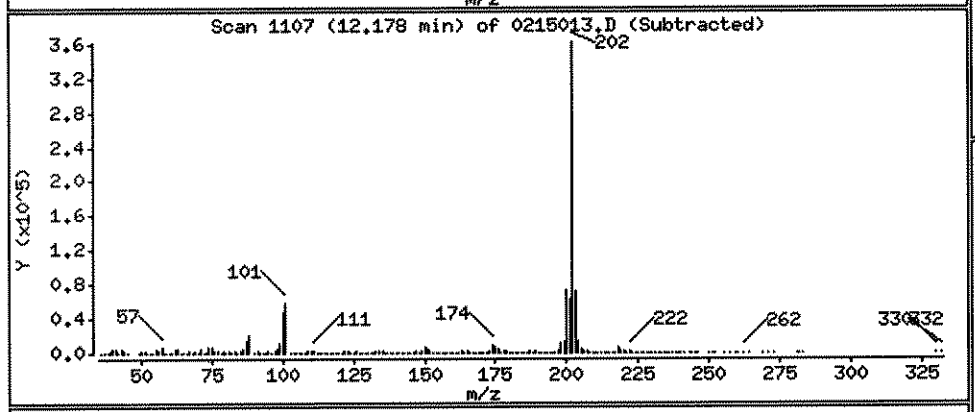
Sample Info: 1202150-13;1;15;1000;1;ug/Kg;22-FEB-2012

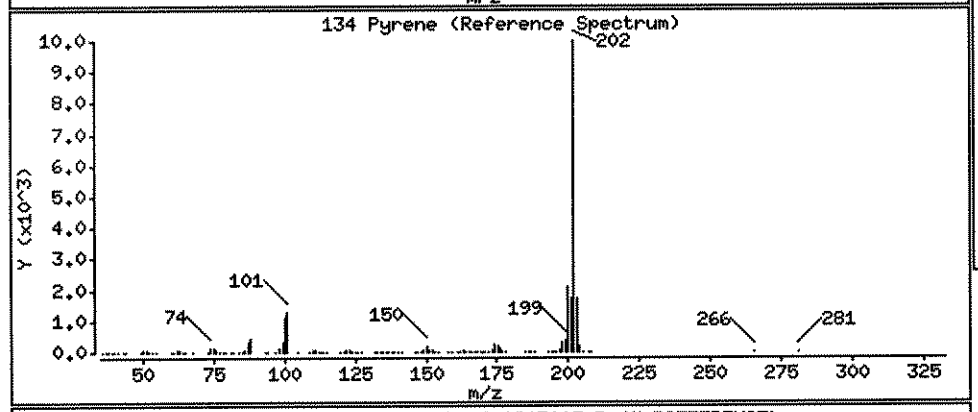
Volume Injected (uL): 1.0 Operator: MEC

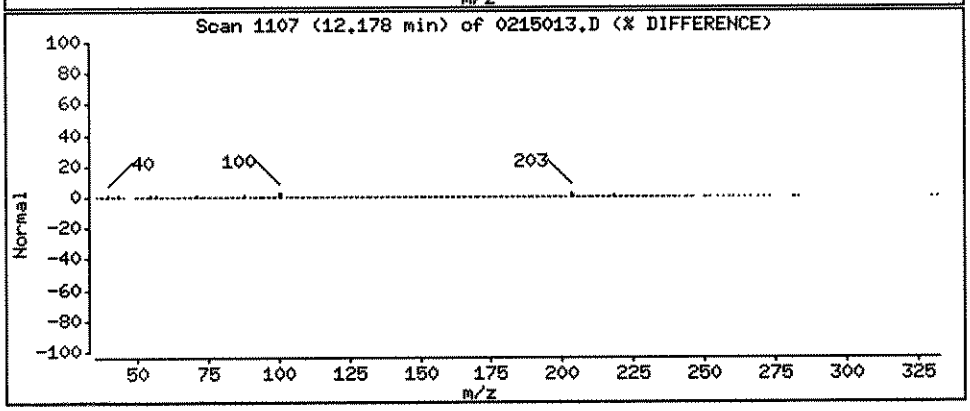
Column phase: fused silica Column diameter: 0.25

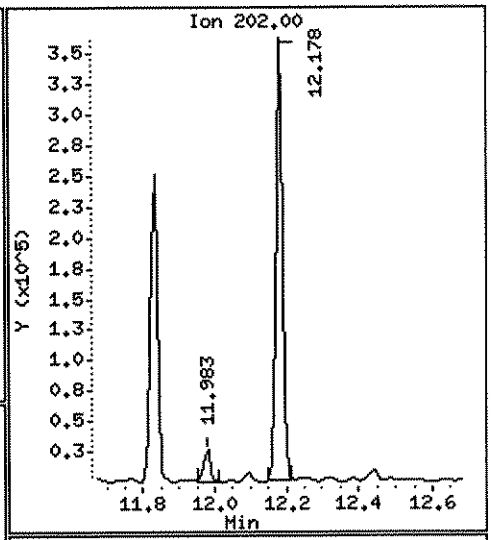
134 Pyrene Concentration: 288.8 ug/Kg

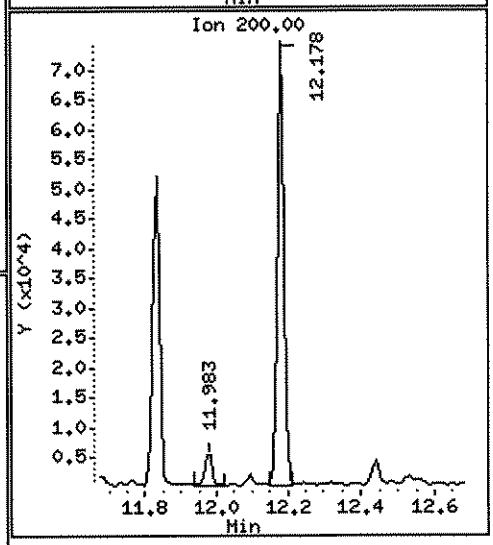












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Date : 25-FEB-2012 03:02

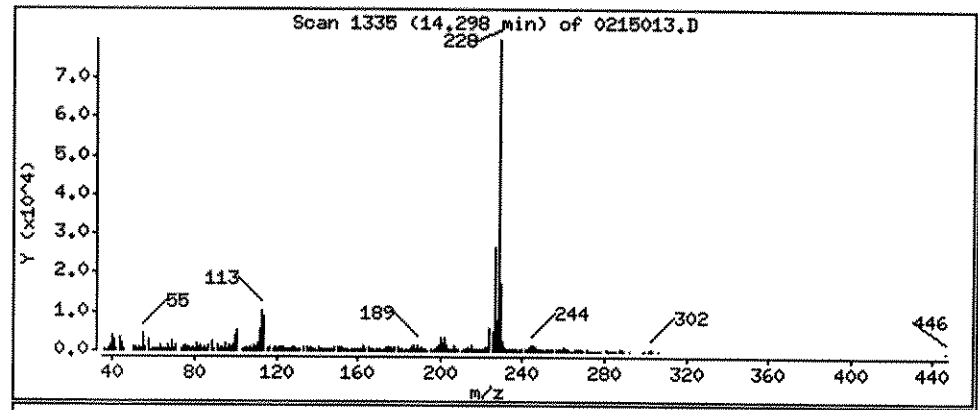
Client ID: FLC-4-DUP01-022112 Instrument: bna4.i

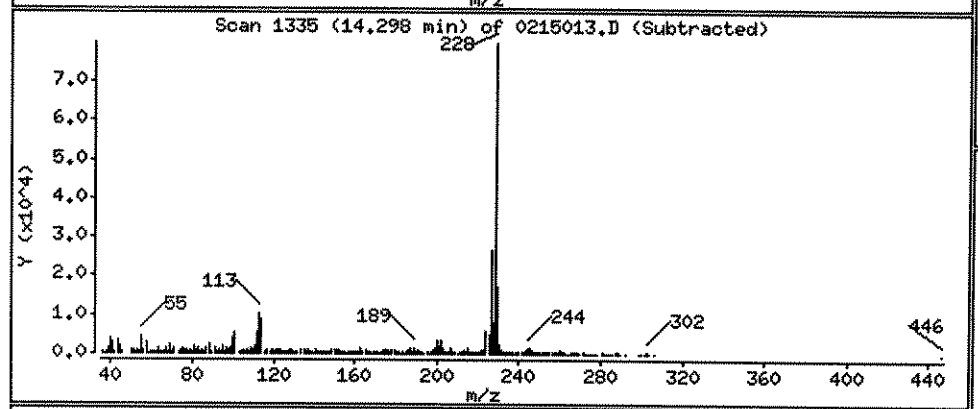
Sample Info: 1202150-13;1;15;1000;1;ug/Kg;22-FEB-2012

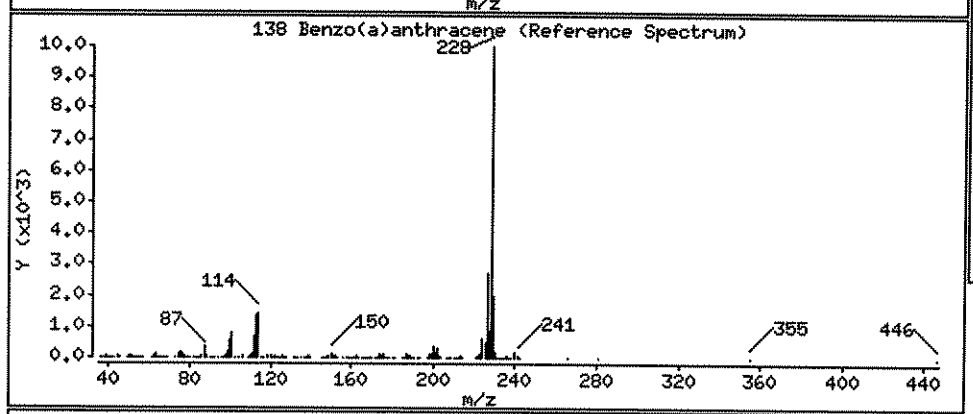
Volume Injected (uL): 1.0 Operator: MEC

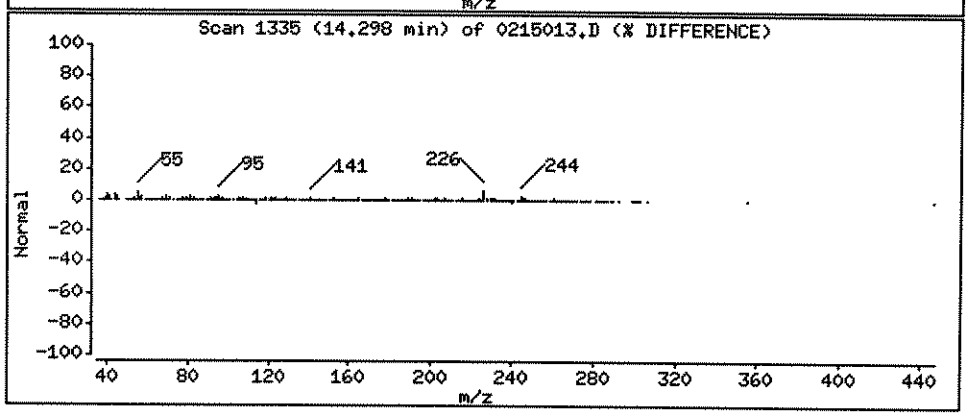
Column phase: fused silica Column diameter: 0.25

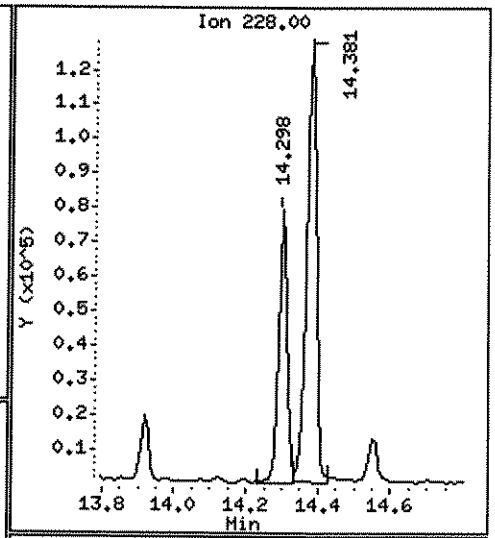
138 Benzo(a)anthracene Concentration: 123.5 ug/Kg

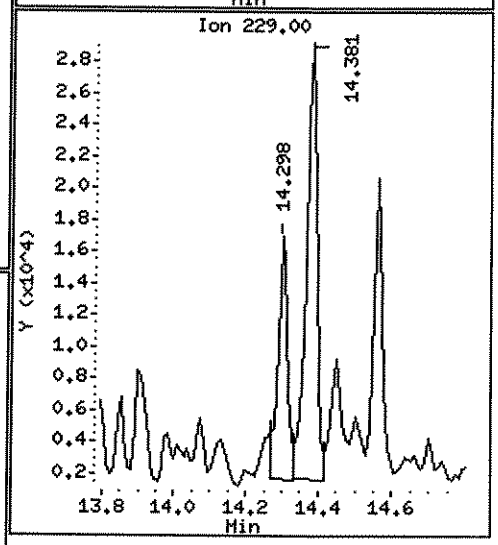












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Date : 25-FEB-2012 03:02

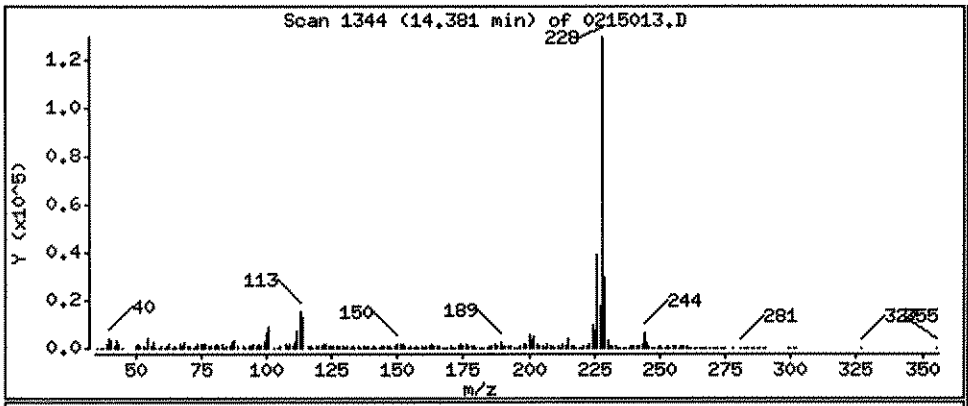
Client ID: FLC-4-DUP01-022112 Instrument: bna4.i

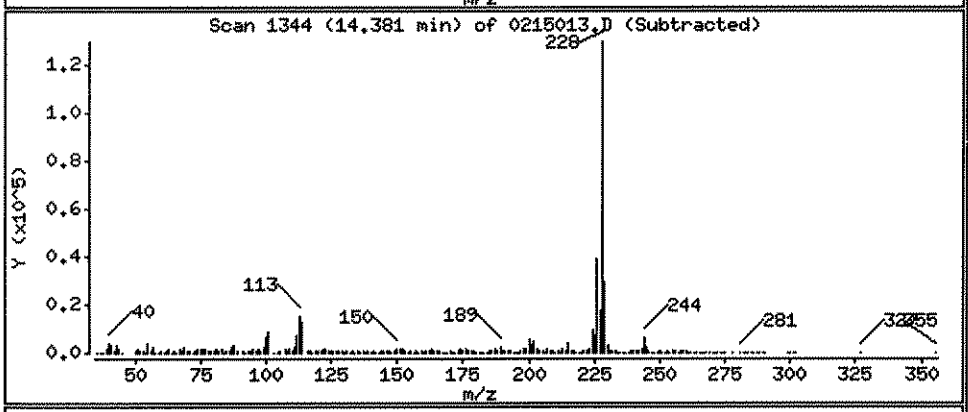
Sample Info: 1202150-13;1;15;1000;1;ug/Kg;22-FEB-2012

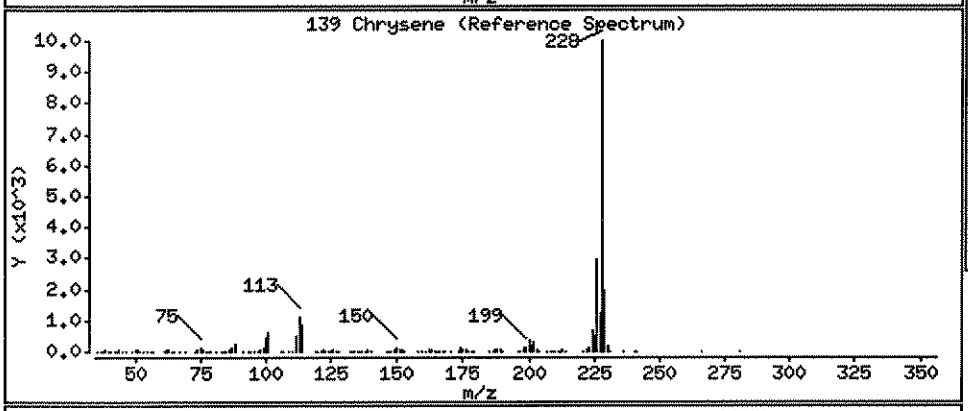
Volume Injected (uL): 1.0 Operator: MEC

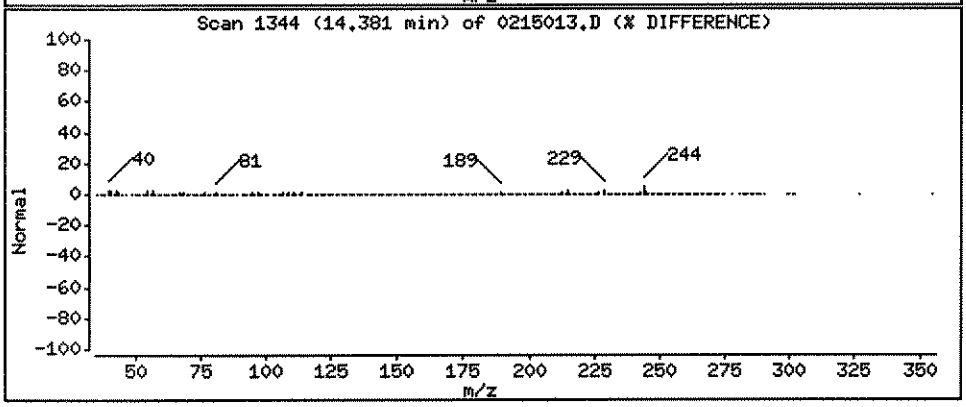
Column phase: fused silica Column diameter: 0.25

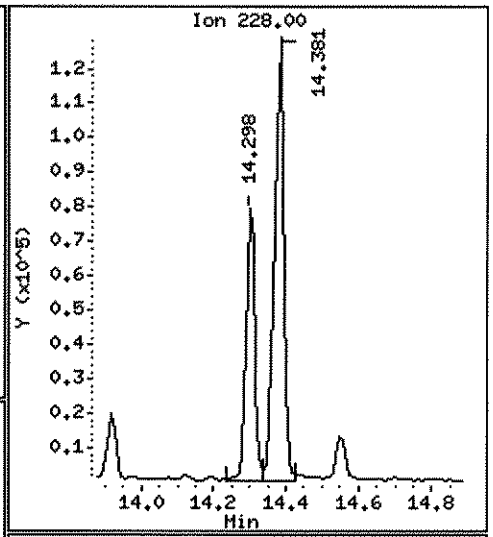
139 Chrysene Concentration: 223.4 ug/Kg

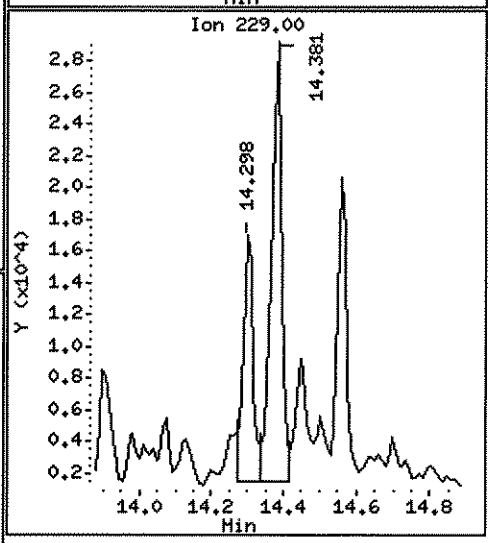












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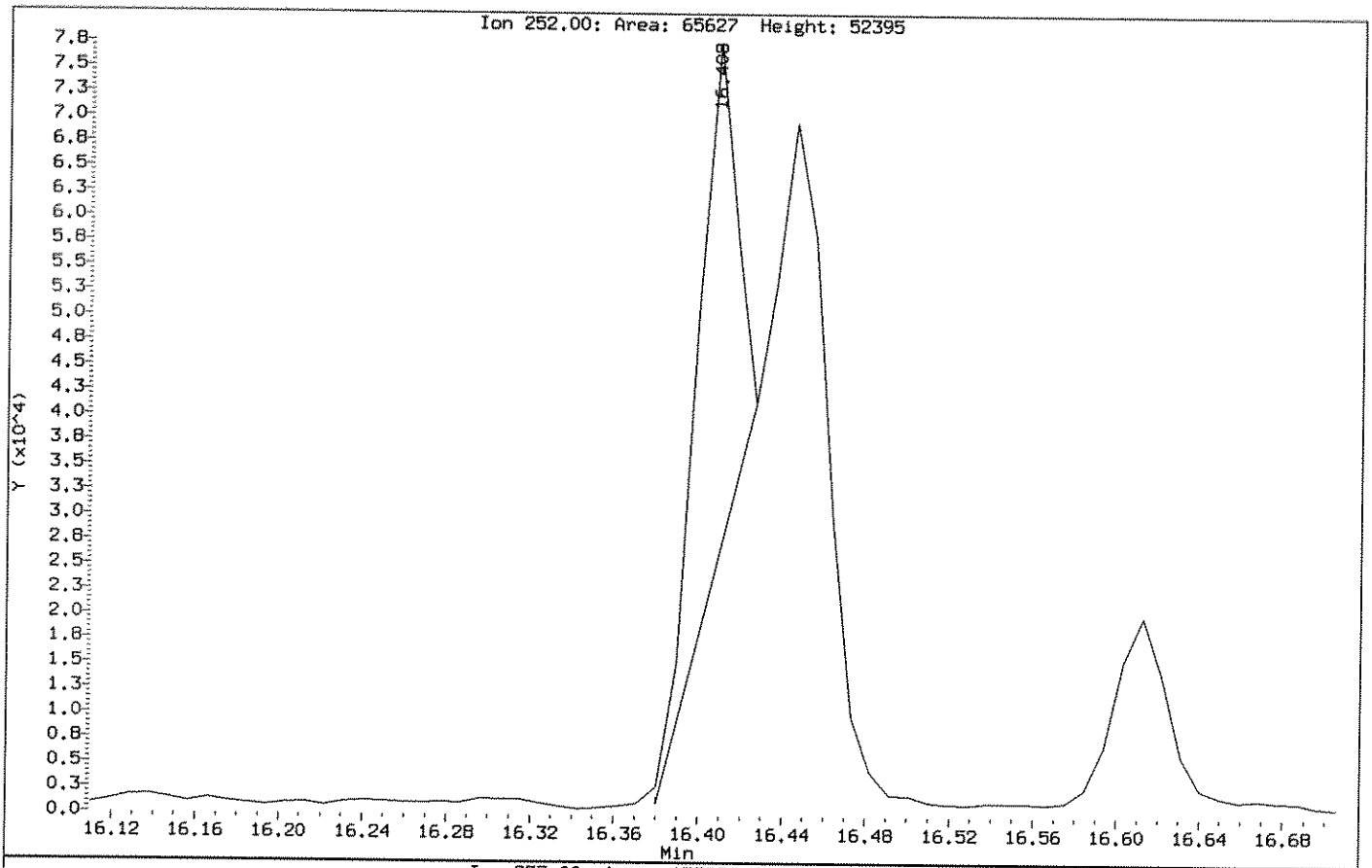
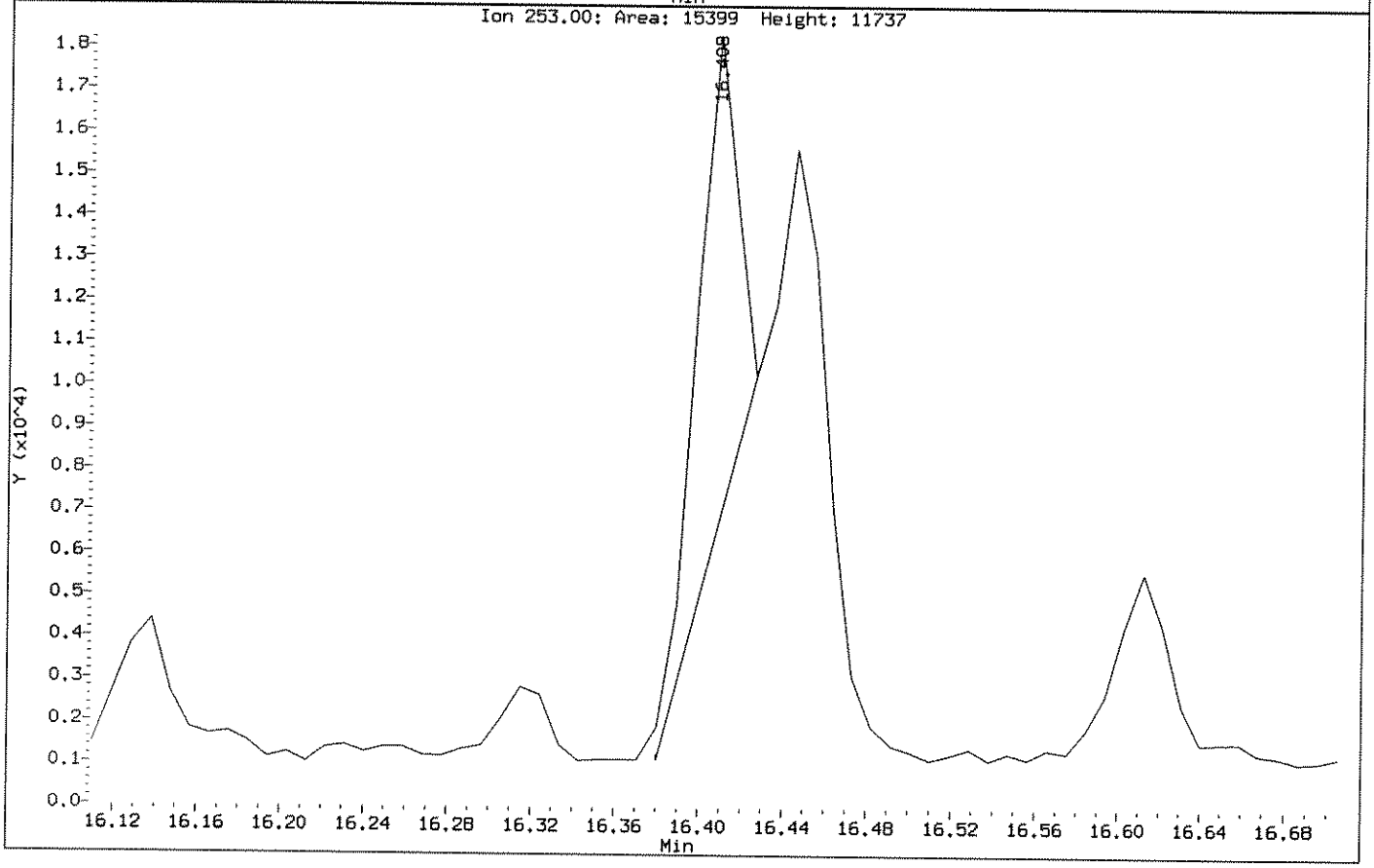
Injection Date: 25-FEB-2012 03:02
Instrument: bna4.i
Client Sample ID: FLC-4-DUP01-022112

Compound: Benzo(b)fluoranthene
CAS Number: 205-99-2





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Date : 25-FEB-2012 03:02

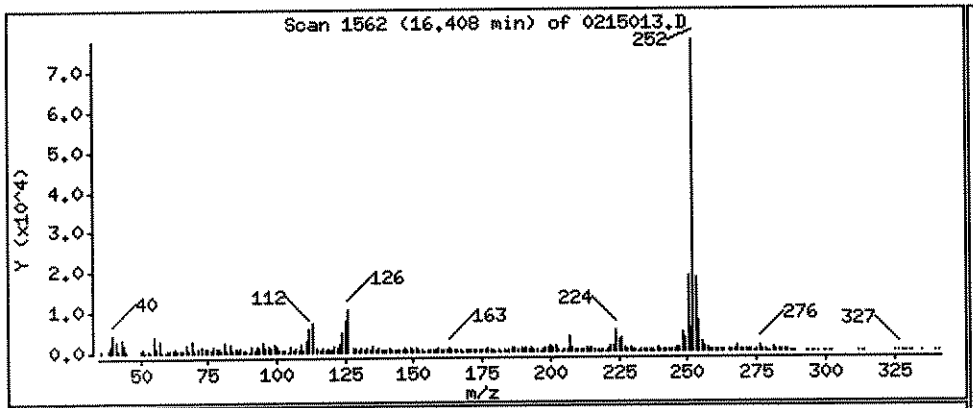
Client ID: FLC-4-DUP01-022112 | Instrument: bna4.i

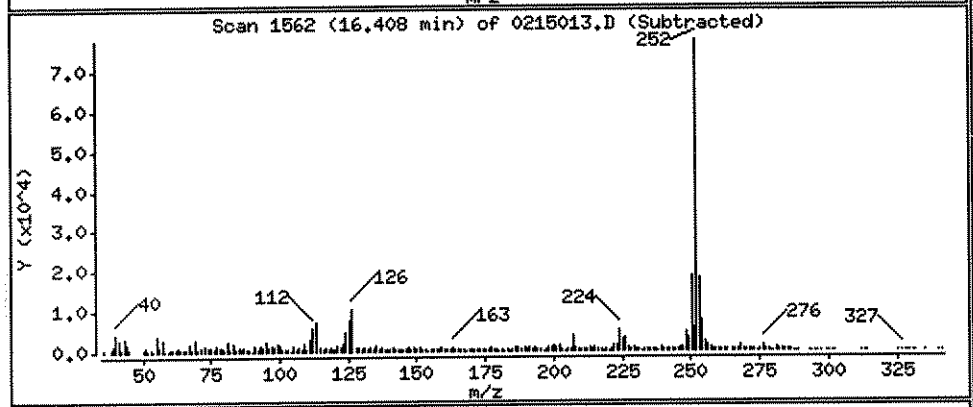
Sample Info: 1202150-13;1;15;1000;1;ug/Kg;22-FEB-2012

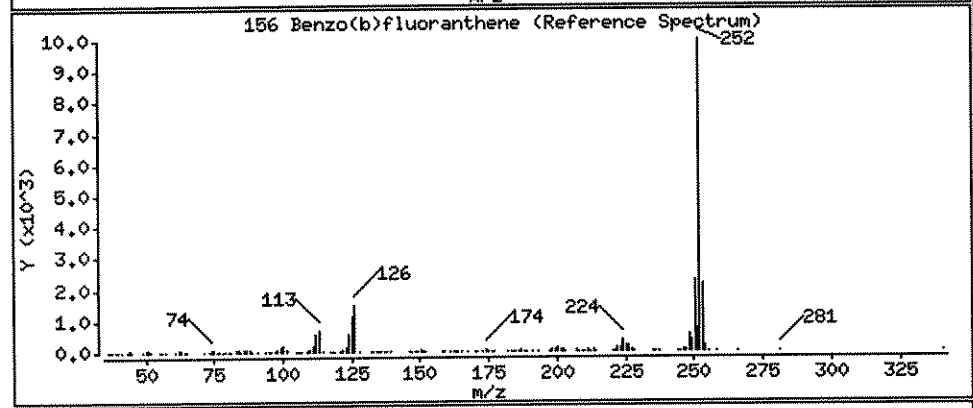
Volume Injected (uL): 1.0 | Operator: MEC

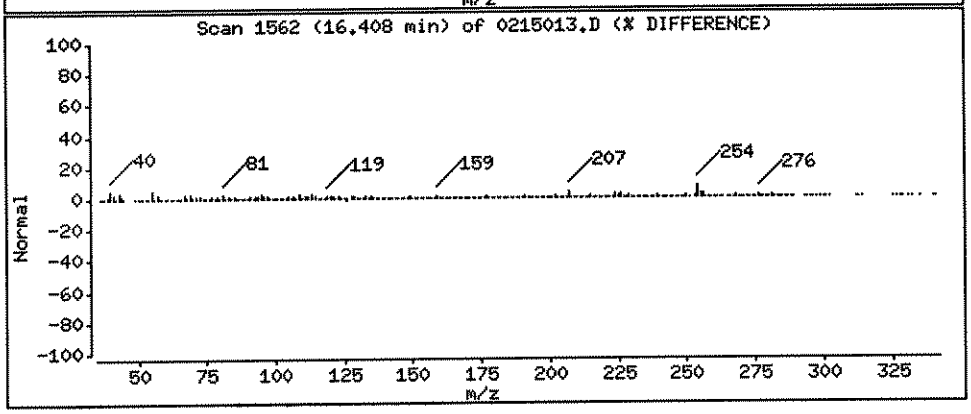
Column phase: fused silica | Column diameter: 0.25

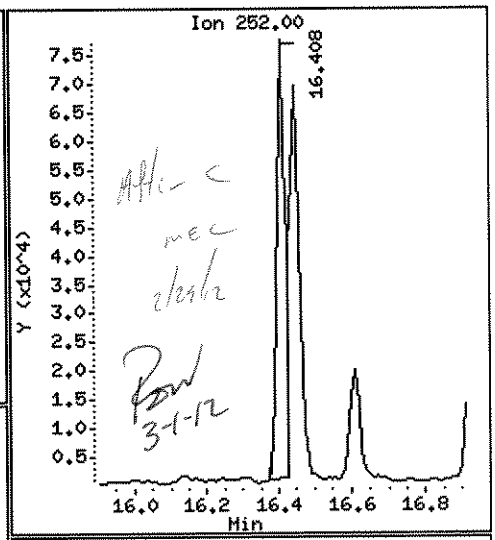
156 Benzo(b)fluoranthene | Concentration: 153.0 ug/Kg

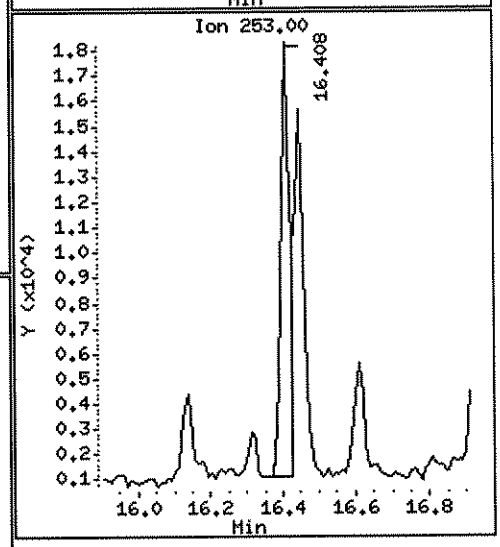












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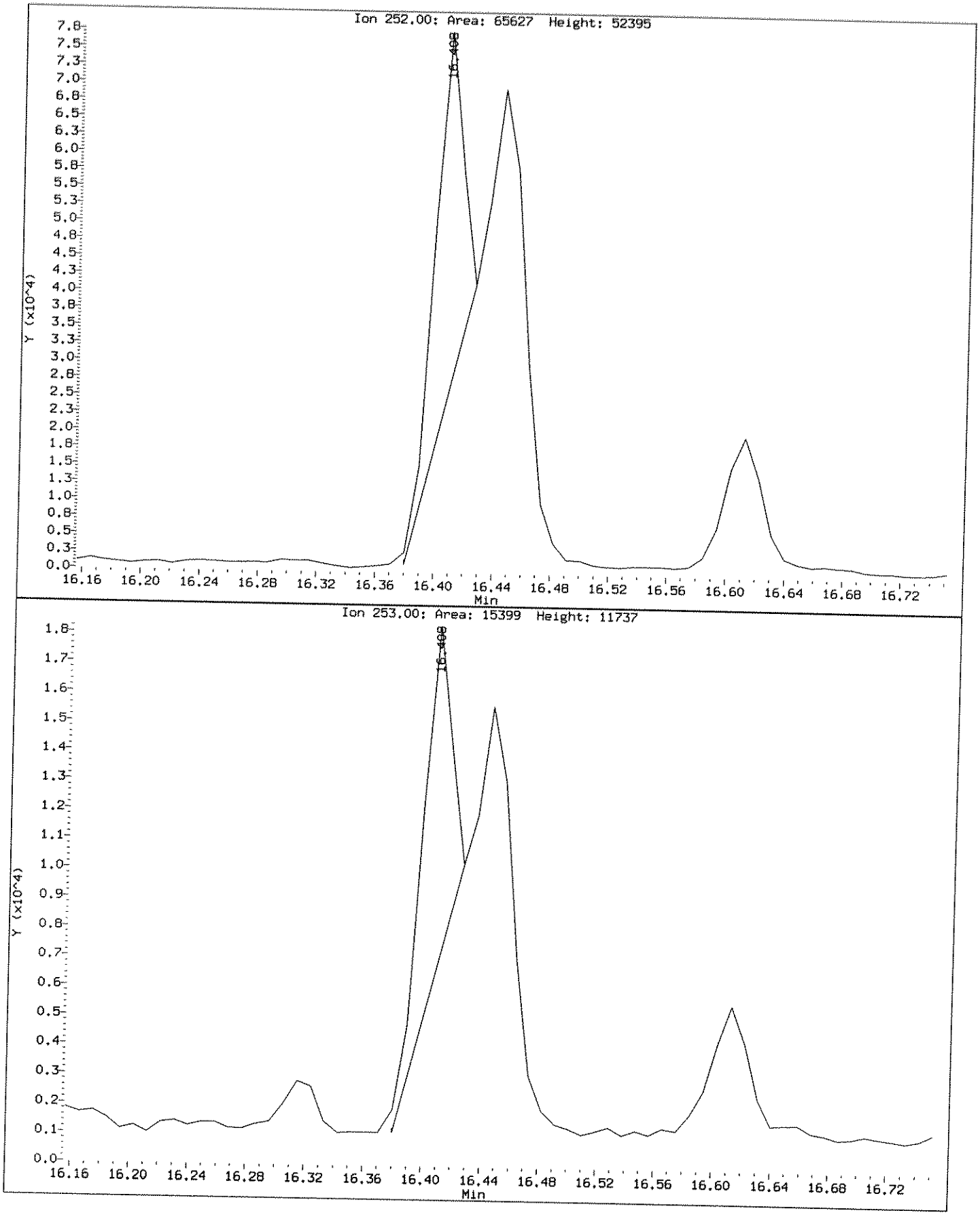
Injection Date: 25-FEB-2012 03:02
Instrument: bna4.i
Client Sample ID: FLC-4-DUP01-022112

Compound: Benzo(k)fluoranthene
CAS Number: 207-08-9



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Date : 25-FEB-2012 03:02

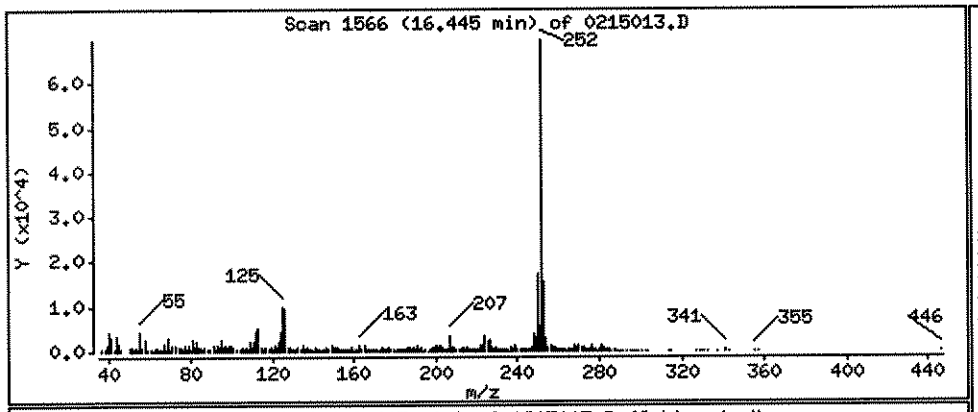
Client ID: FLC-4-DUP01-022112 | Instrument: bna4.i

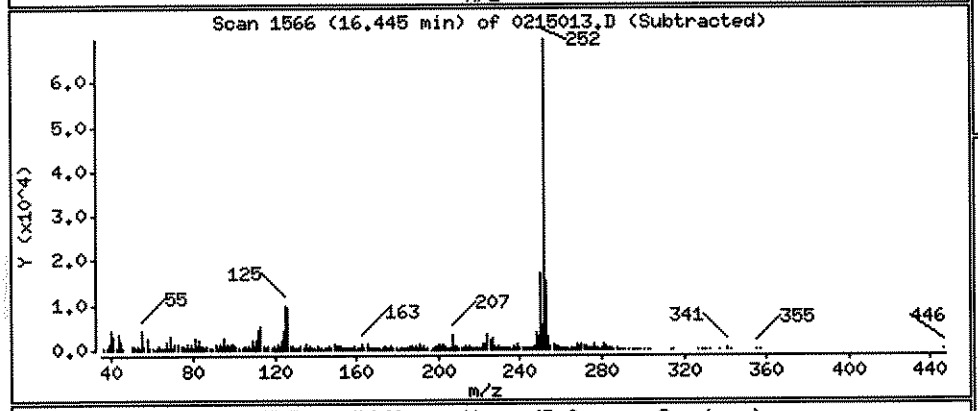
Sample Info: 1202150-13;1;15;1000;1;ug/Kg;22-FEB-2012

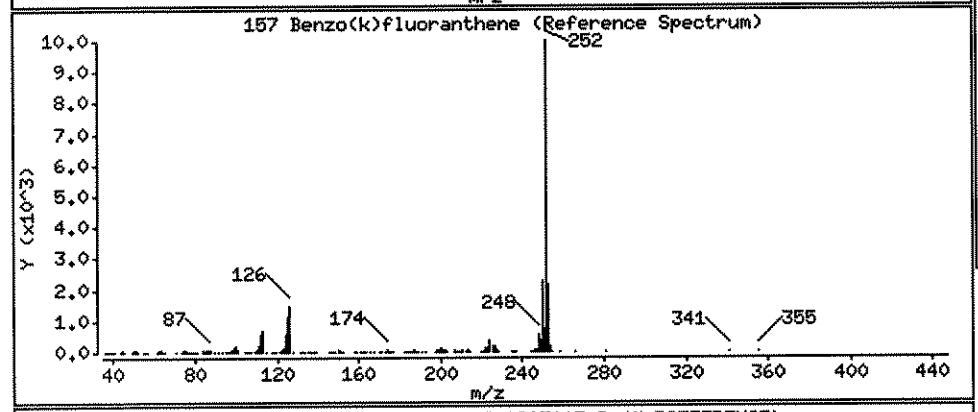
Volume Injected (uL): 1.0 | Operator: MEC

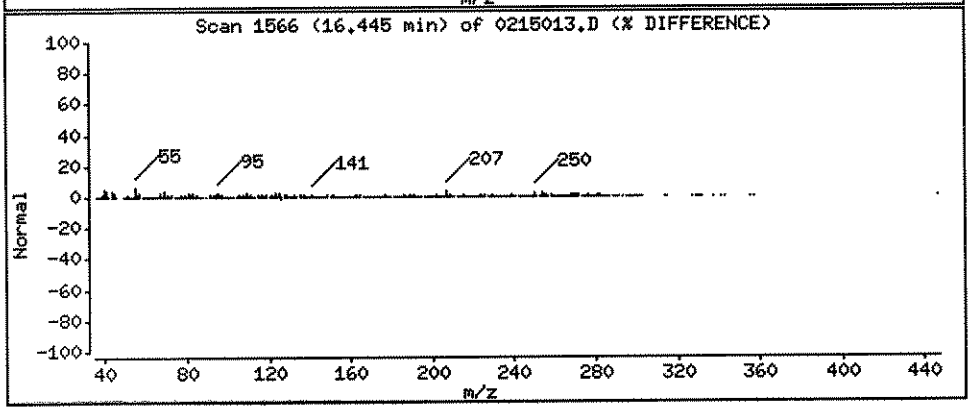
Column phase: fused silica | Column diameter: 0.25

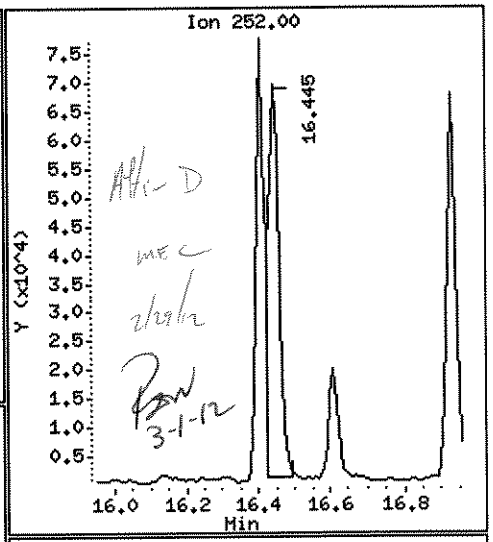
157 Benzo(k)fluoranthene | Concentration: 167.6 ug/Kg

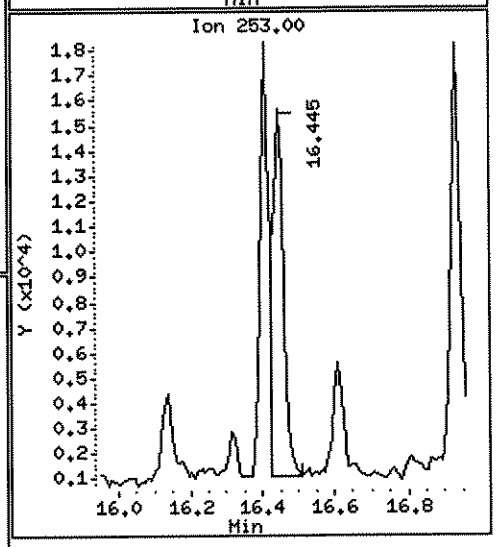












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Date : 25-FEB-2012 03:02

Client ID: FLC-4-DUP01-022112

Instrument: bna4.i

Sample Info: 1202150-13;1;15;1000;1;ug/Kg;22-FEB-2012

Volume Injected (uL): 1.0

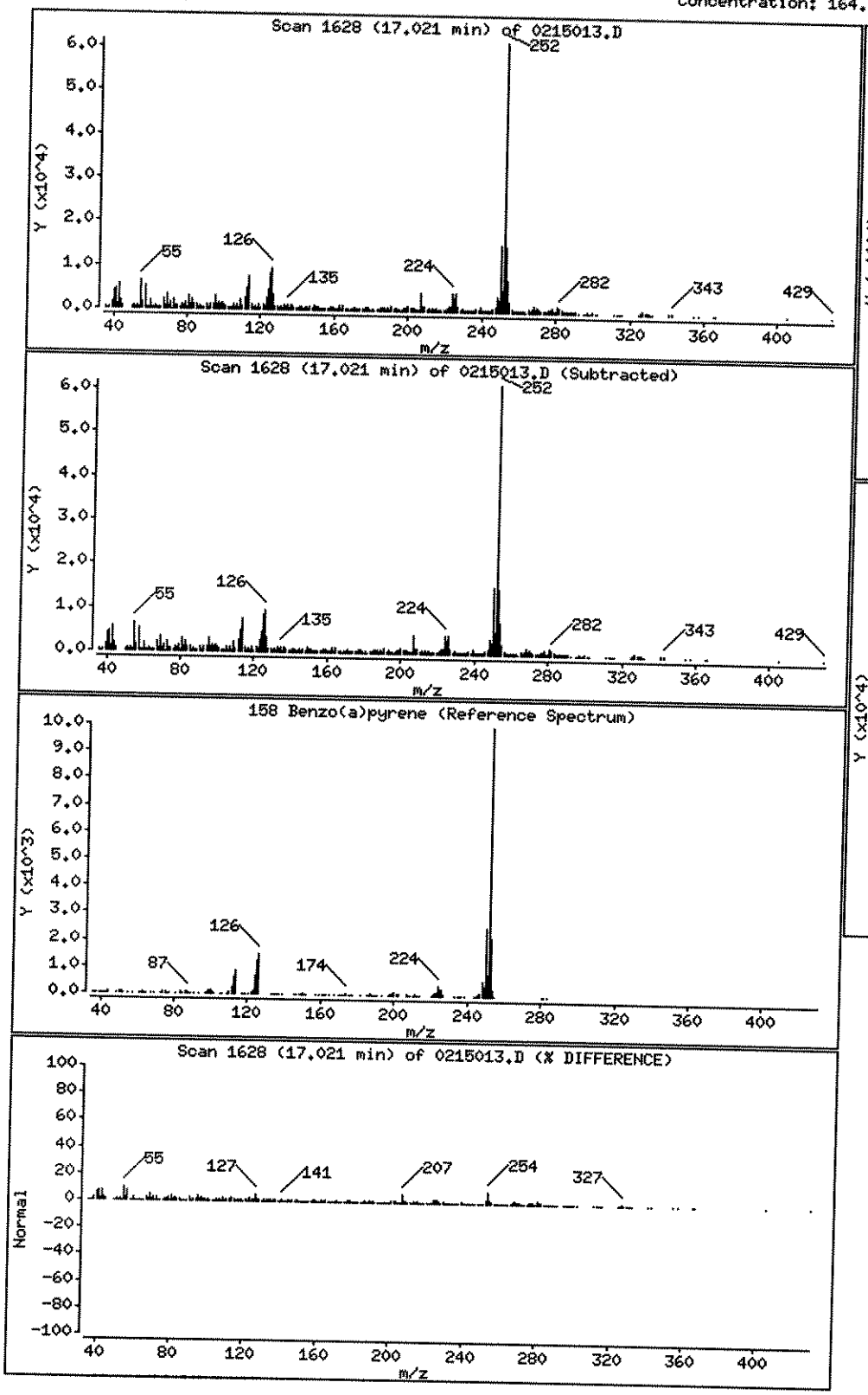
Operator: MEC

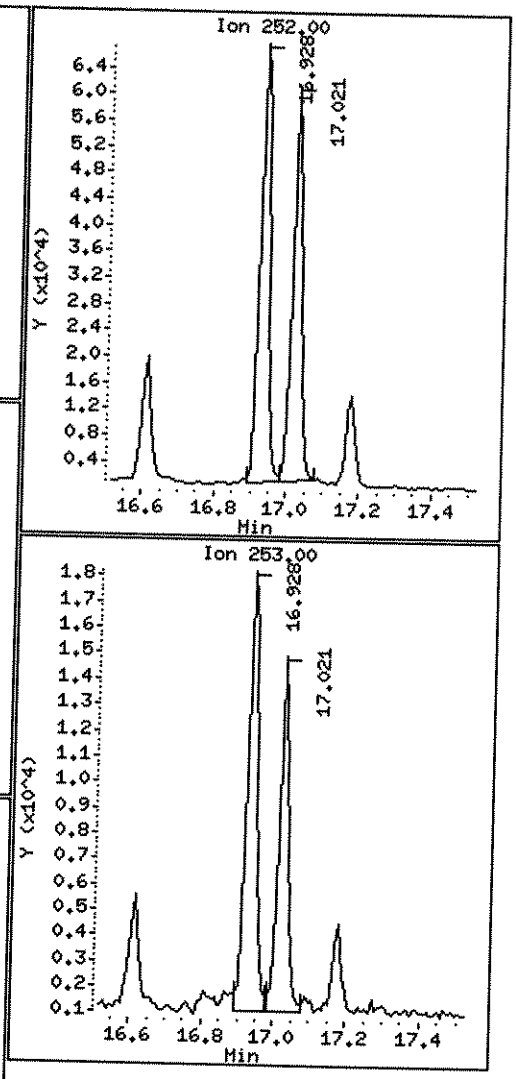
Column phase: fused silica

Column diameter: 0.25

158 Benzo(a)pyrene

Concentration: 164.9 ug/Kg





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Date : 25-FEB-2012 03:02

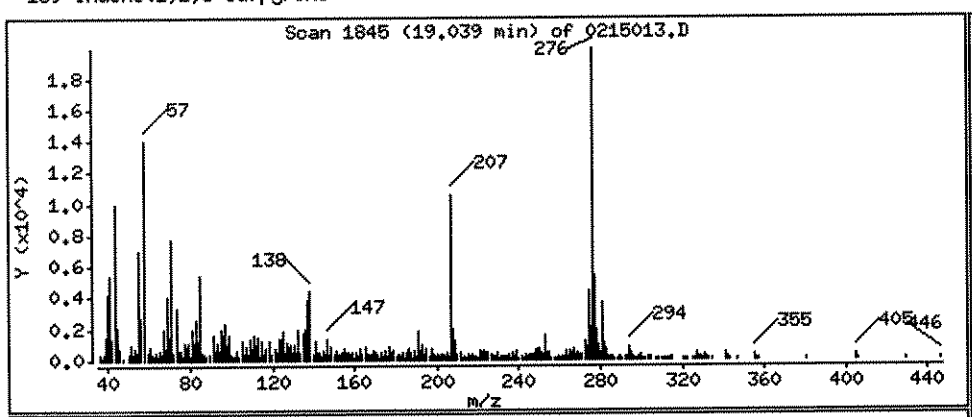
Client ID: FLC-4-DUP01-022112 | Instrument: bna4.i

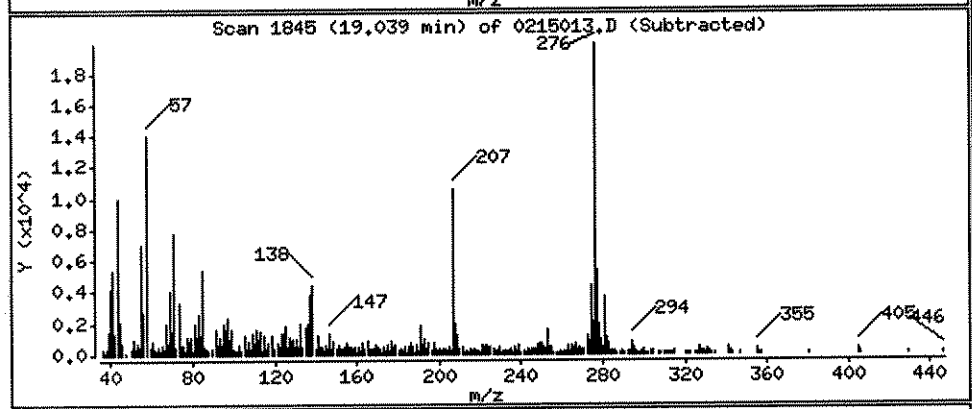
Sample Info: 1202150-13;1;15;1000;1;ug/Kg;22-FEB-2012

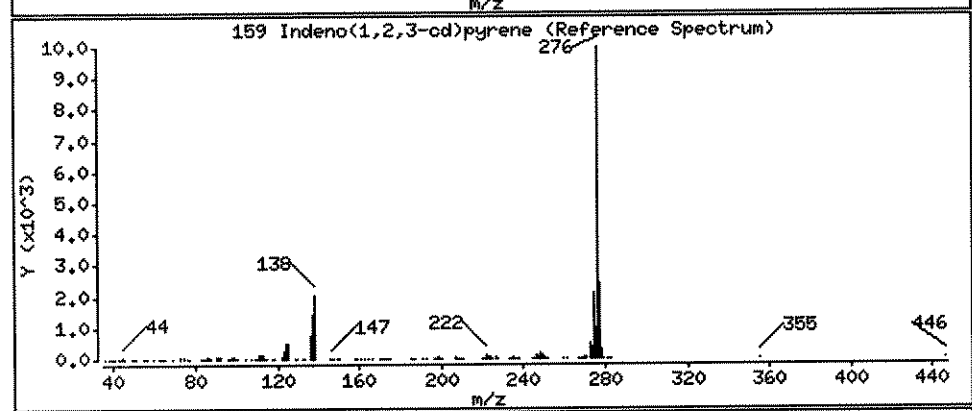
Volume Injected (uL): 1.0 | Operator: MEC

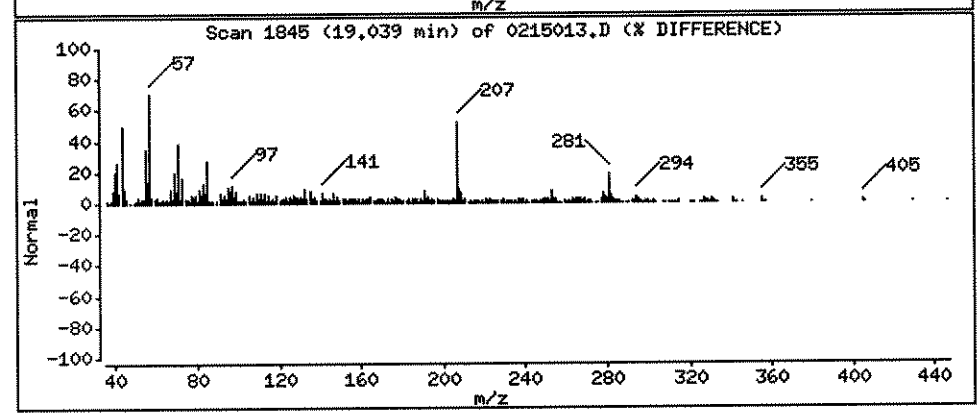
Column phase: fused silica | Column diameter: 0.25

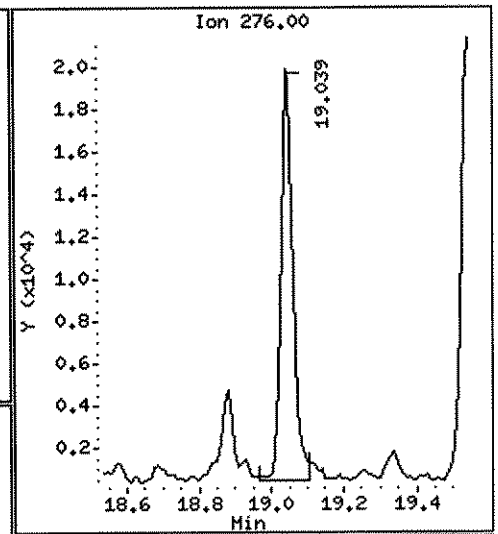
159 Indeno(1,2,3-cd)pyrene | Concentration: 89.61 ug/Kg

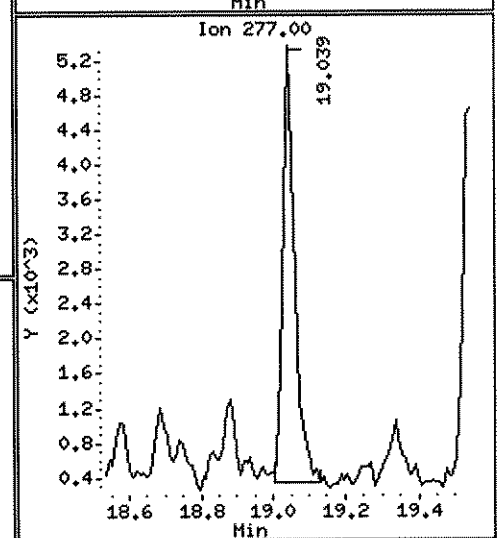












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Date : 25-FEB-2012 03:02

Client ID: FLC-4-DUP01-022112

Instrument: bna4.i

Sample Info: 1202150-13;1;15;1000;1;ug/Kg;22-FEB-2012

Volume Injected (uL): 1.0

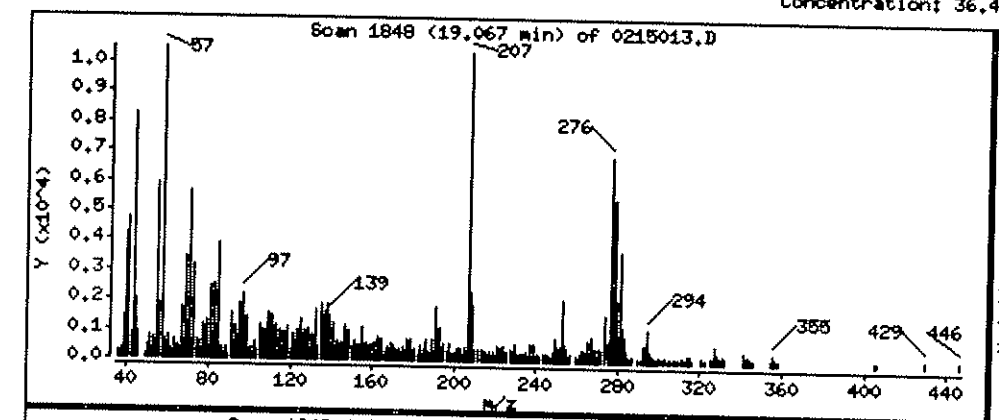
Operator: MEC

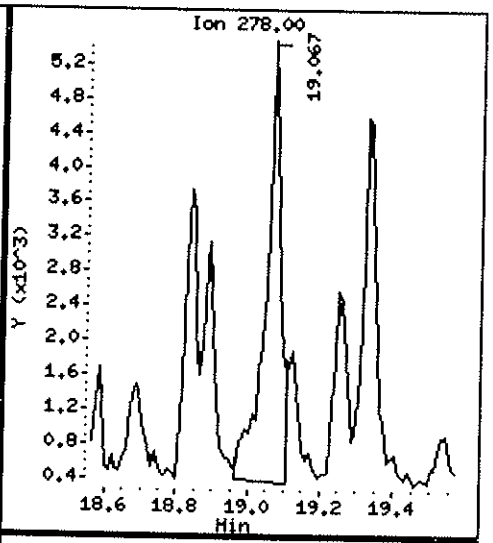
Column phase: fused silica

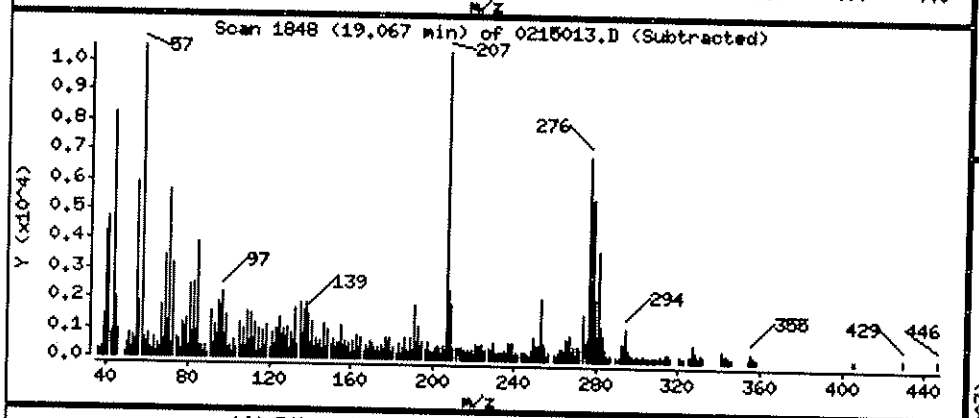
Column diameter: 0.25

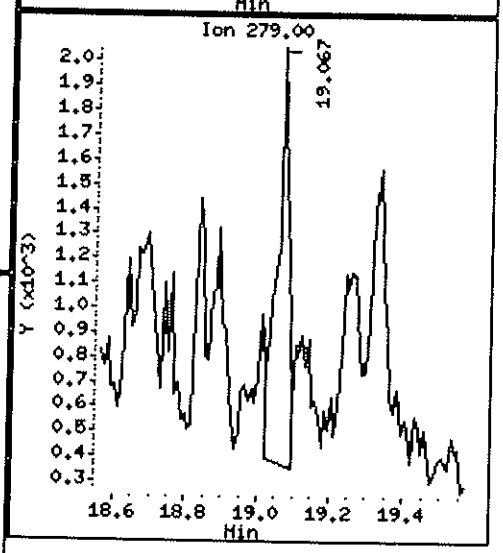
160 Dibenz(a,h)anthracene

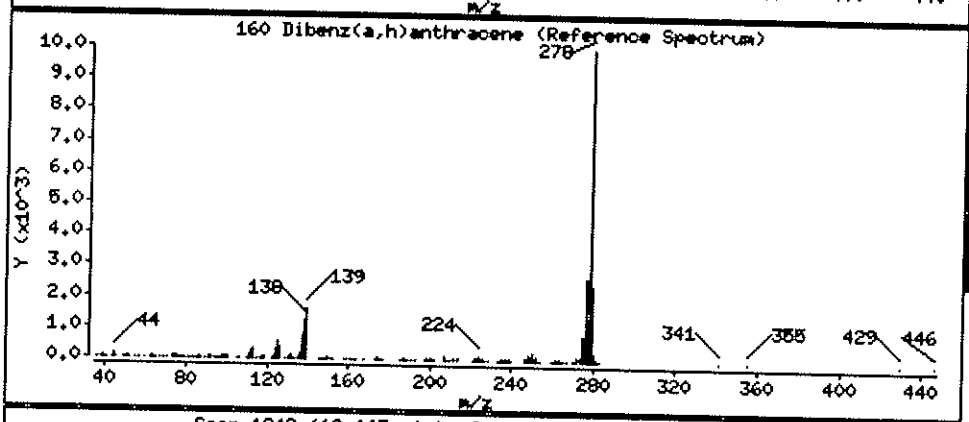
Concentration: 36.46 ug/Kg

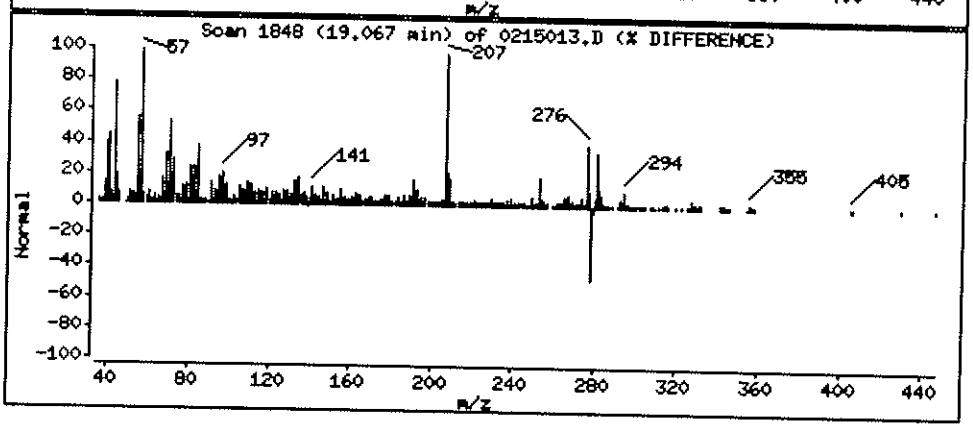












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Date : 25-FEB-2012 03:02

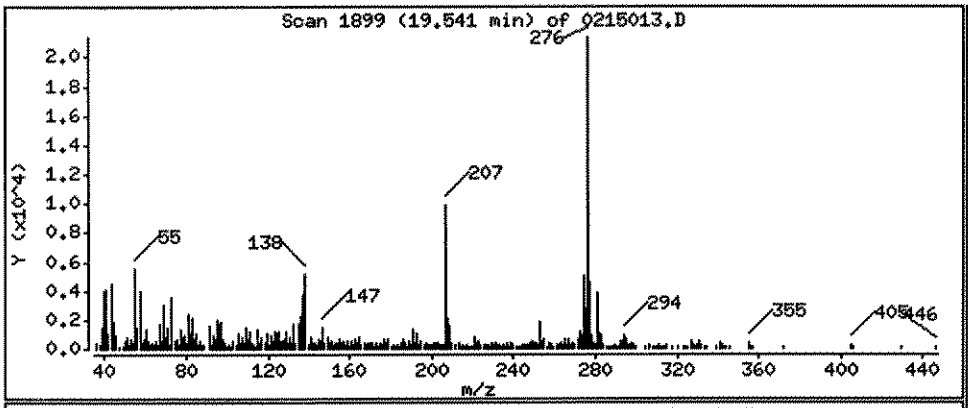
Client ID: FLC-4-DUP01-022112 Instrument: bna4.i

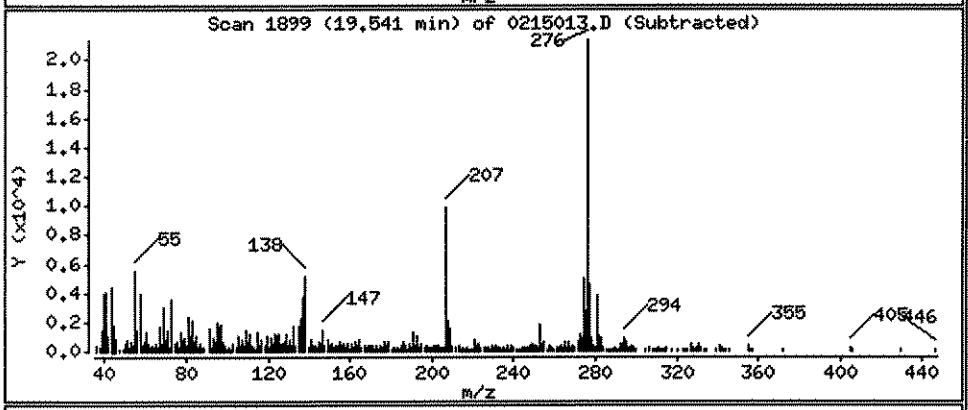
Sample Info: 1202150-13;1;15;1000;1;ug/Kg;22-FEB-2012

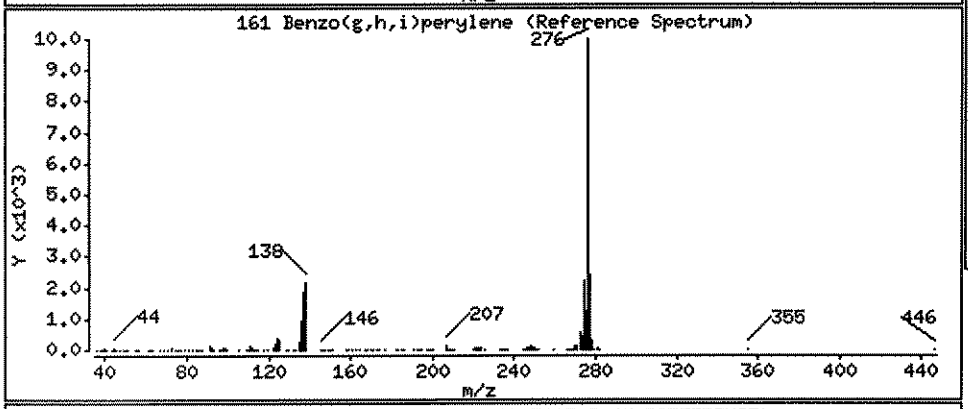
Volume Injected (uL): 1.0 Operator: MEC

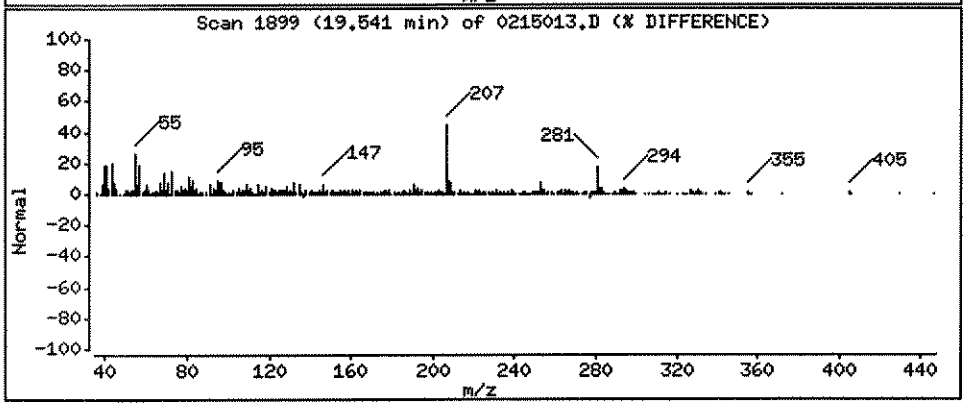
Column phase: fused silica Column diameter: 0.25

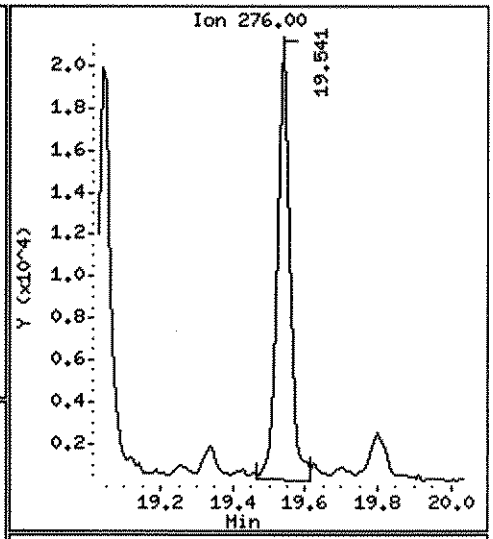
161 Benzo(g,h,i)perylene Concentration: 109.8 ug/Kg

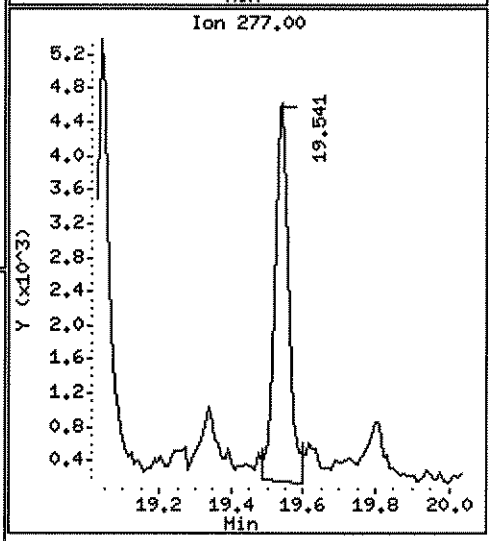












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Report Date: 29-Feb-2012 12:18

Laboratory Name

Data file : \\ELABNSH05\TARGET\chem\bna4.i\022412B4E.b\0215017.D
Lab Smp Id: 1202150-17
Inj Date : 25-FEB-2012 05:23 MS Autotune Date: 15-FEB-2012 09:23
Operator : MEC Inst ID: bna4.i
Smp Info : 1202150-17;1;15;1000;1;ug/Kg;22-FEB-2012
Misc Info : ;0;;;;2B22014;pahlow.sub;
Comment :
Method : \\ELABNSH05\TARGET\chem\bna4.i\022412B4E.b\IXBN4LOW.m
Meth Date : 29-Feb-2012 12:10 mcobb Quant Type: ISTD
Cal Date : 20-FEB-2012 16:29 Cal File: SEQ-CAL1.D
Als bottle: 40
Dil Factor: 1.00000
Integrator: HP RTE Compound Sublist: pahlow.sub
Target Version: 4.04
Processing Host: TARGET09_VM

Concentration Formula: Amt * DF * Uf * Vt*Vi/(Amt * Vi * (Solids/100))

Name	Value	Description
DF	1.000	Dilution Factor
Uf	1.000	ng unit correction factor
Vt	1000.000	Volume of final extract (uL)(1000 low, 2
Amt	15.000	Mass of initial extraction
Vi	1.000	Volume injected (uL)
Solids	100.000	Percent Solids

PDW 3-1-12

Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS ON-COLUMN (ng/ul)	FINAL (ug/Kg)
55 2-Methylnaphthalene	142	7.092	7.092	(0.696)	1877	0.02901	1.934(a)
$ 74 2-Fluorobiphenyl	172	7.557	7.557	(0.741)	2684105	33.9867	2266
77 Acenaphthylene	152	8.208	8.208	(0.805)	3975	0.04269	2.846(a)
* 102 Phenanthrene-d10	188	10.197	10.197	(1.000)	98235	1.00000	
111 Phenanthrene	178	10.225	10.225	(1.003)	27780	0.28635	19.09
116 Fluoranthene	202	11.833	11.833	(1.160)	28329	0.28421	18.95
134 Pyrene	202	12.177	12.177	(1.194)	40572	0.39515	26.34
* 154 Perylene-d12	264	17.132	17.123	(1.000)	38773	1.00000	
$ 135 Terphenyl-d14	244	12.438	12.428	(1.220)	3257708	47.9850	3199
139 Chrysene	228	14.381	14.381	(1.410)	15261	0.23556	15.70
158 Benzo(a)pyrene	252	17.021	17.021	(0.993)	4211	0.11555	7.703
159 Indeno(1,2,3-cd)pyrene	276	19.047	19.038	(1.112)	2019	0.06972	4.648(M)
161 Benzo(g,h,i)perylene	276	19.540	19.531	(1.141)	2037	0.07809	5.206

ME
2/29/12

Data File: \\ELABNSH05\TARGET\chem\bna4.i\022412B4E.b\0215017.D
Report Date: 29-Feb-2012 12:18

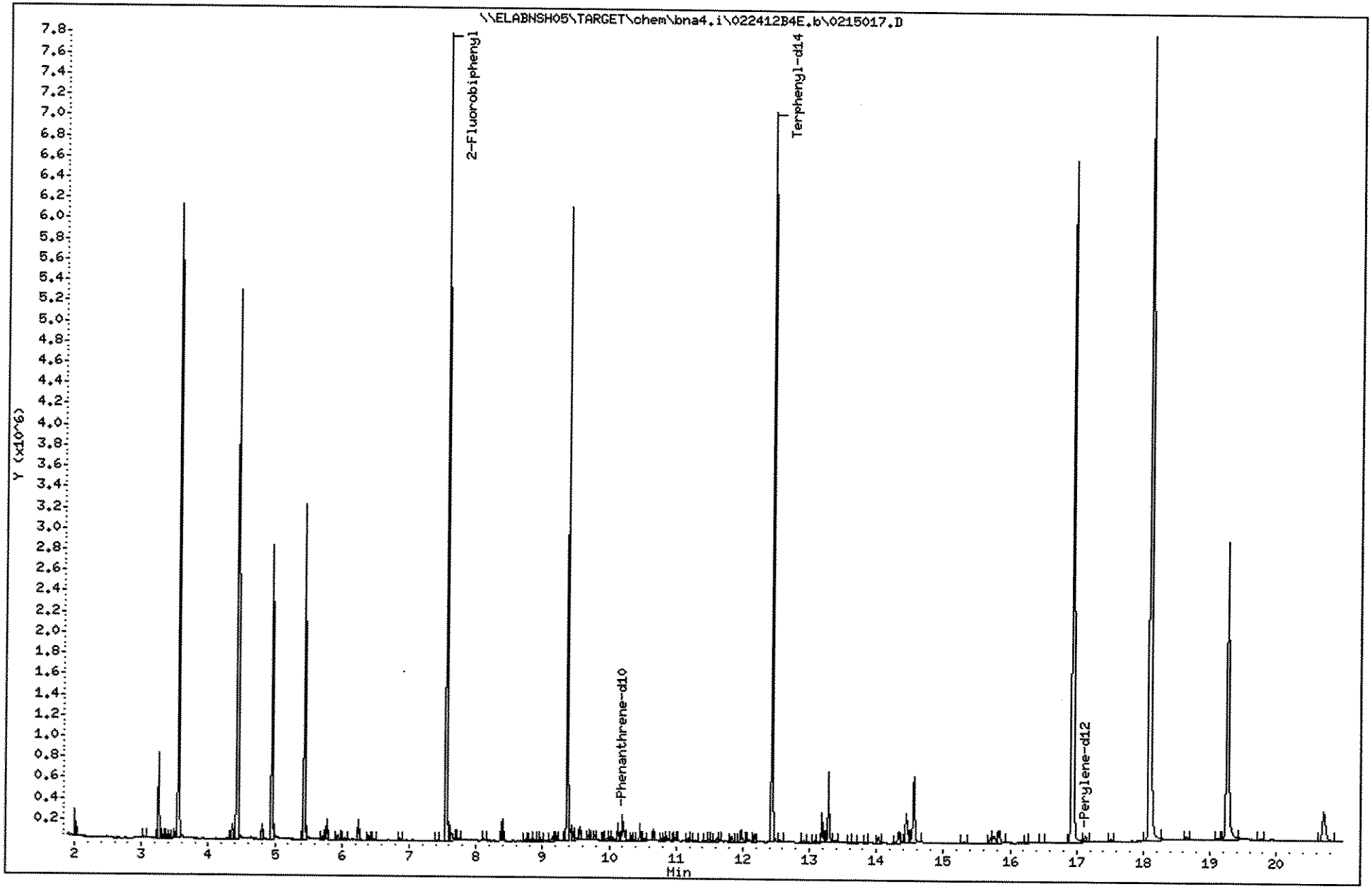
QC Flag Legend

a - Target compound detected but, quantitated amount
    Below Limit Of Quantitation(BLOQ).
M - Compound response manually integrated.

Data File: \\ELABNSH05\TARGET\chem\bna4.i\022412B4E.b\0215017.D
Date : 25-FEB-2012 05:23
Client ID:
Sample Info: 1202150-17;1;15;1000;1;ug/Kg;22-FEB-2012
Volume Injected (uL): 1.0
Column phase: fused silica

Instrument: bna4.i

Operator: MEC
Column diameter: 0.25



Data File: \\ELABNSH05\TARGET\chem\bna4.i\022412B4E.b\0215017.D

Date : 25-FEB-2012 05:23

Client ID:

Instrument: bna4.i

Sample Info: 1202150-17;1;15;1000;1;ug/Kg;22-FEB-2012

Volume Injected (uL): 1.0

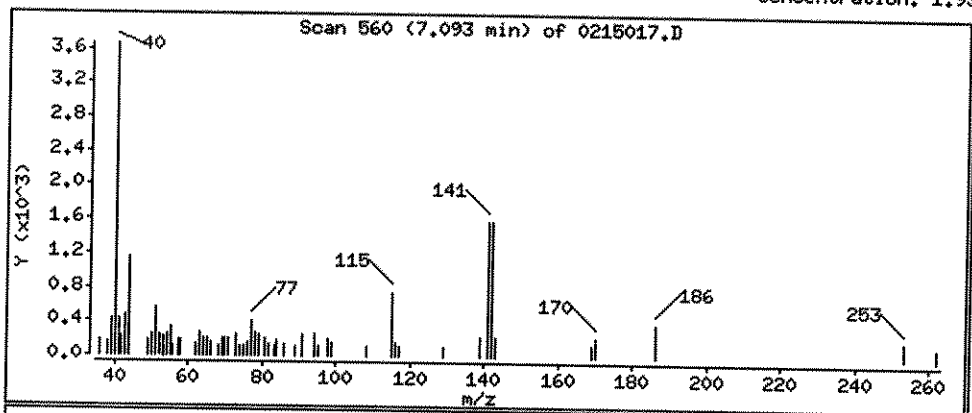
Operator: MEC

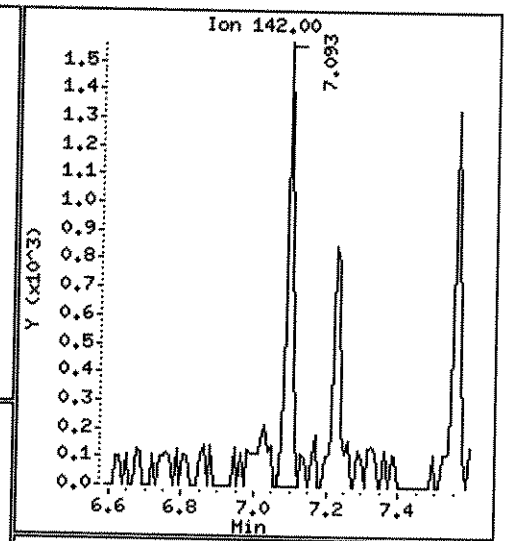
Column phase: fused silica

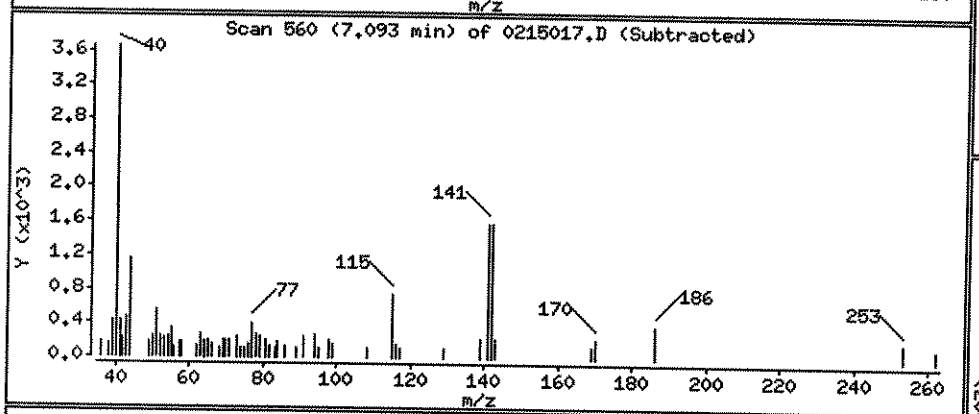
Column diameter: 0.25

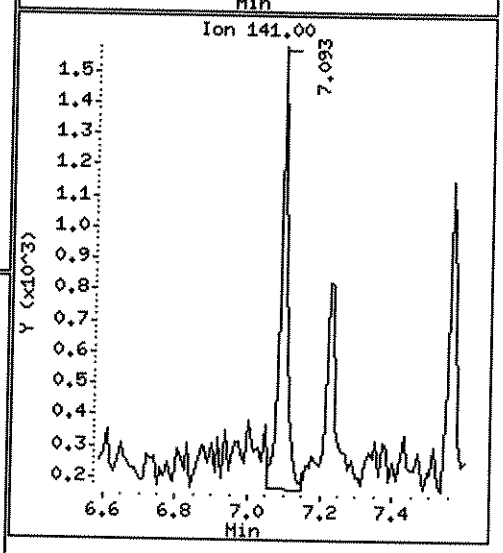
55 2-Methylnaphthalene

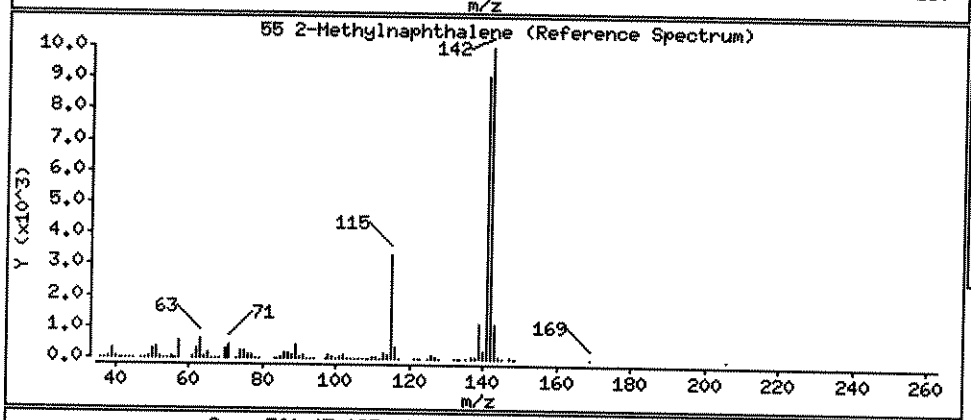
Concentration: 1.934 ug/Kg

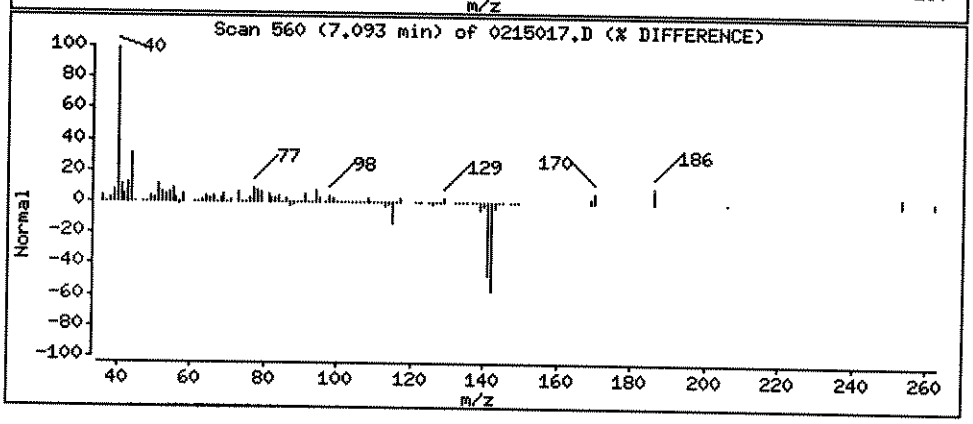












Data File: \\ELABNSH05\TARGET\chem\bna4.i\022412B4E.b\0215017.D

Date : 25-FEB-2012 05:23

Client ID:

Instrument: bna4.i

Sample Info: 1202150-17;1;15;1000;1;ug/Kg;22-FEB-2012

Volume Injected (uL): 1.0

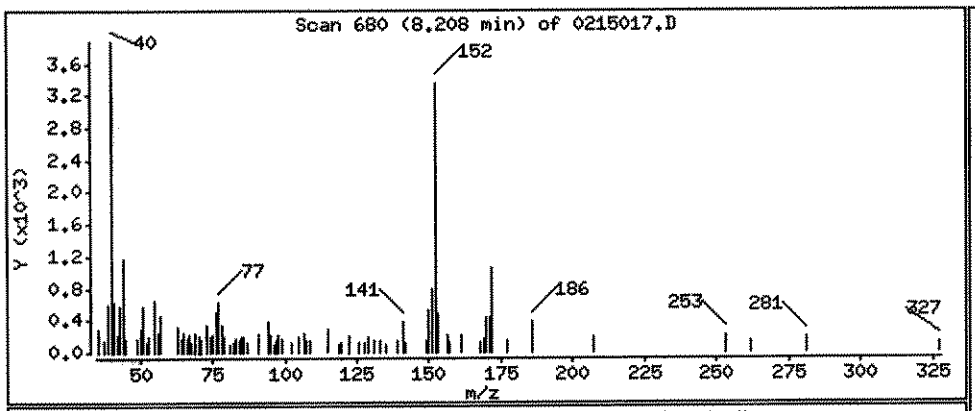
Operator: MEC

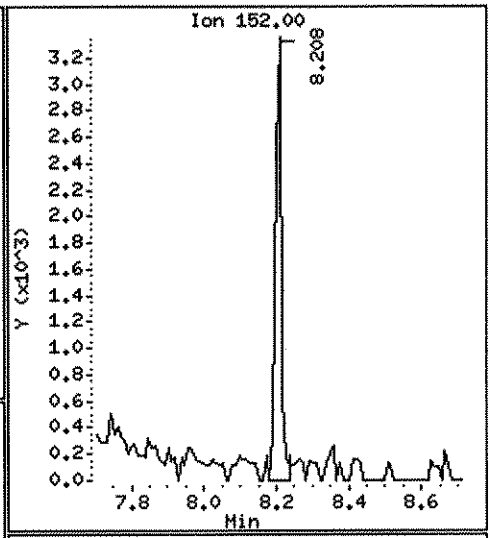
Column phase: fused silica

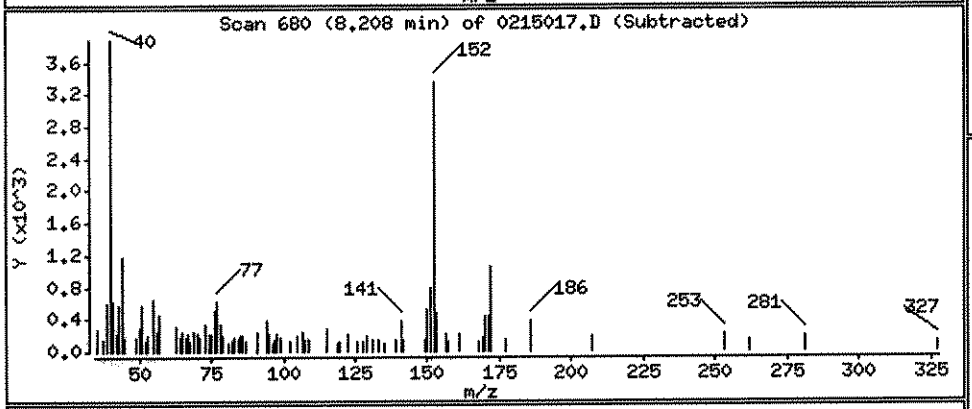
Column diameter: 0.25

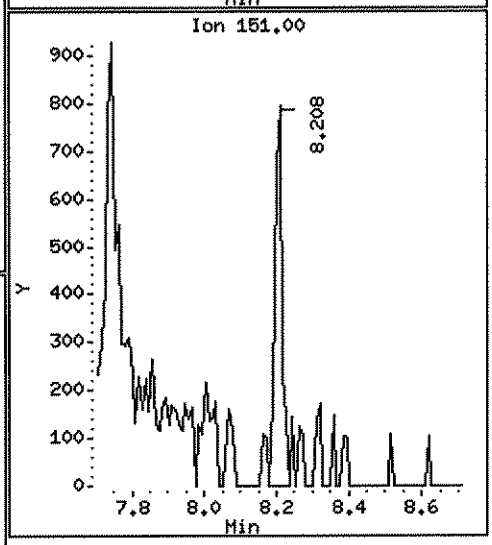
77 Acenaphthylene

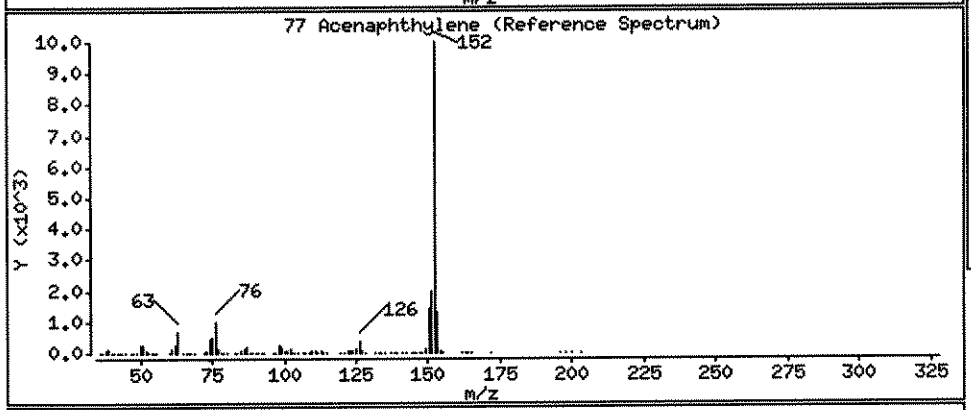
Concentration: 2.846 ug/Kg

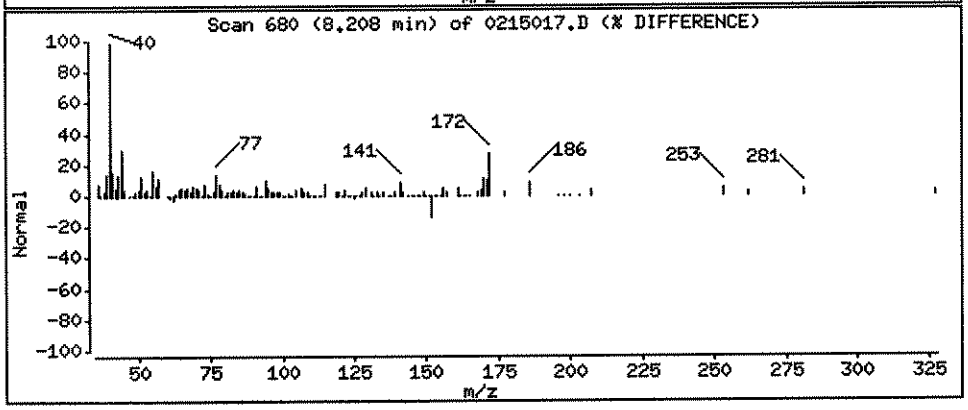












Data File: \\ELABNSH05\TARGET\chem\bna4.i\022412B4E.b\0215017.D

Date : 25-FEB-2012 05:23

Client ID:

Instrument: bna4.i

Sample Info: 1202150-17;1;15;1000;1;ug/Kg;22-FEB-2012

Volume Injected (uL): 1.0

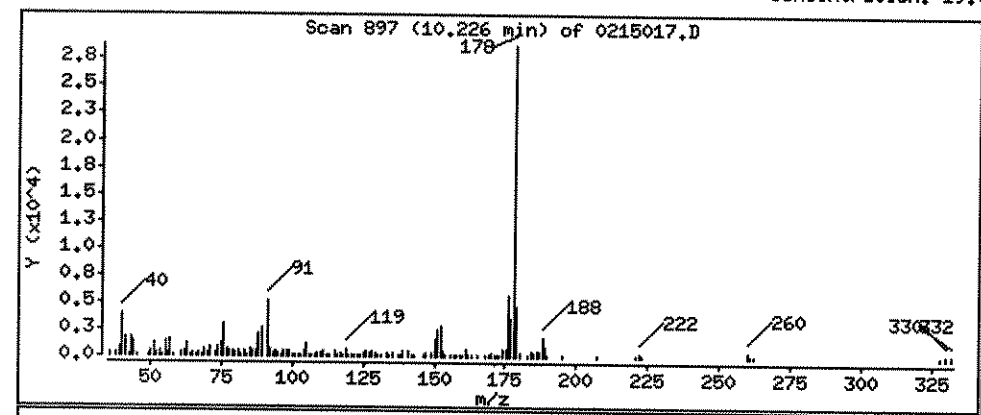
Operator: MEC

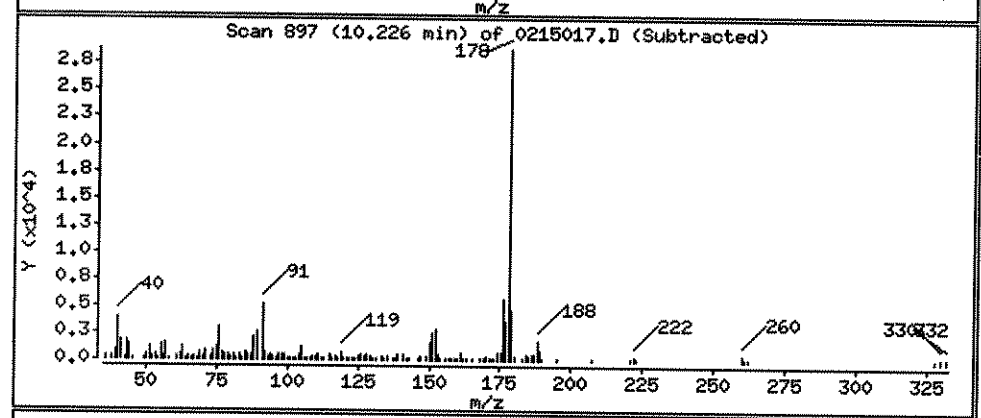
Column phase: fused silica

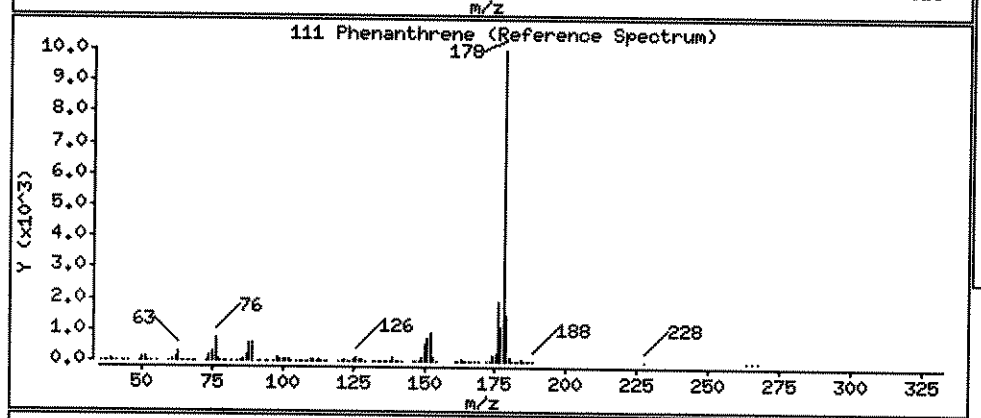
Column diameter: 0.25

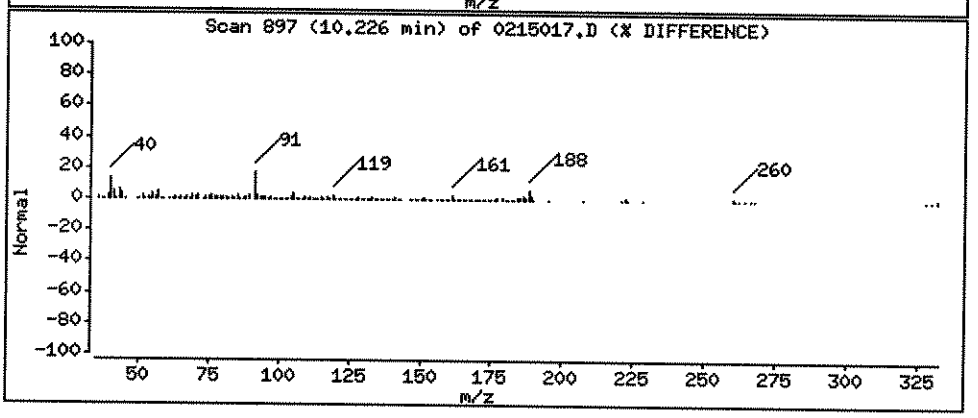
111 Phenanthrene

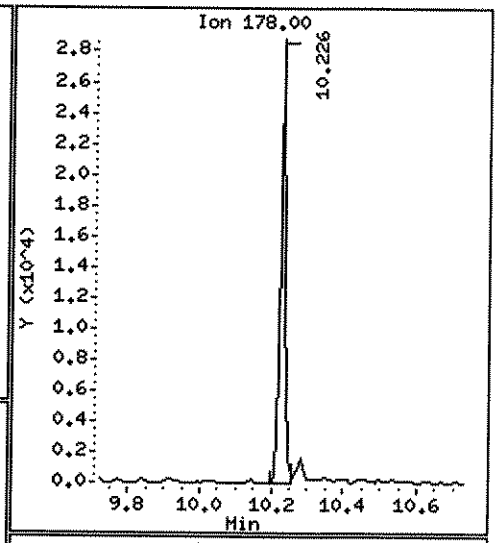
Concentration: 19.09 ug/Kg

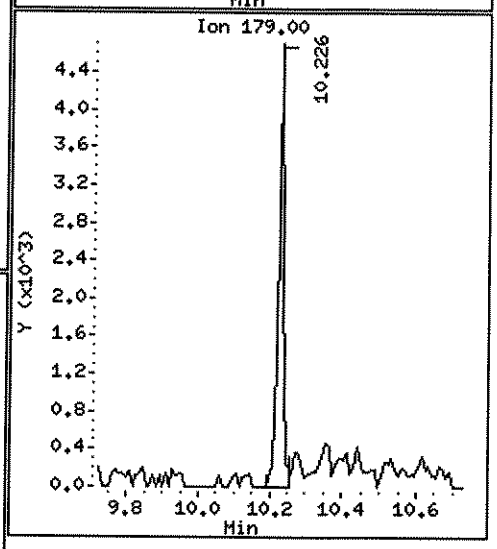












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Date : 25-FEB-2012 05:23

Client ID:

Instrument: bna4.i

Sample Info: 1202150-17;1;15;1000;1;ug/Kg;22-FEB-2012

Volume Injected (uL): 1.0

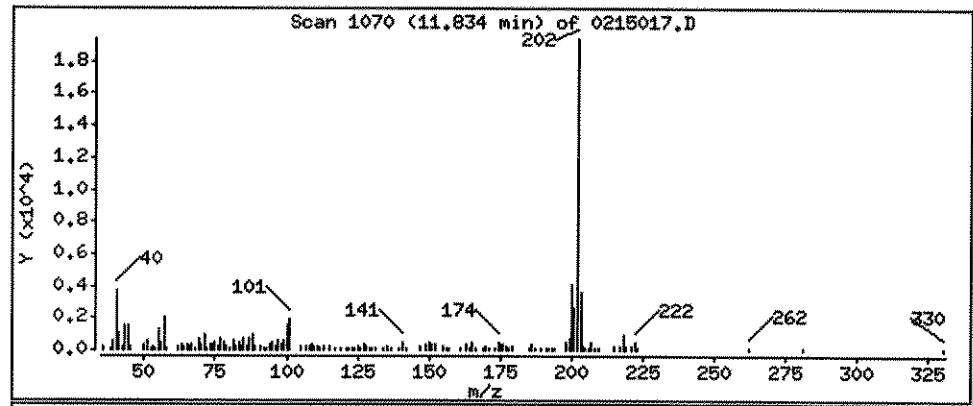
Operator: MEC

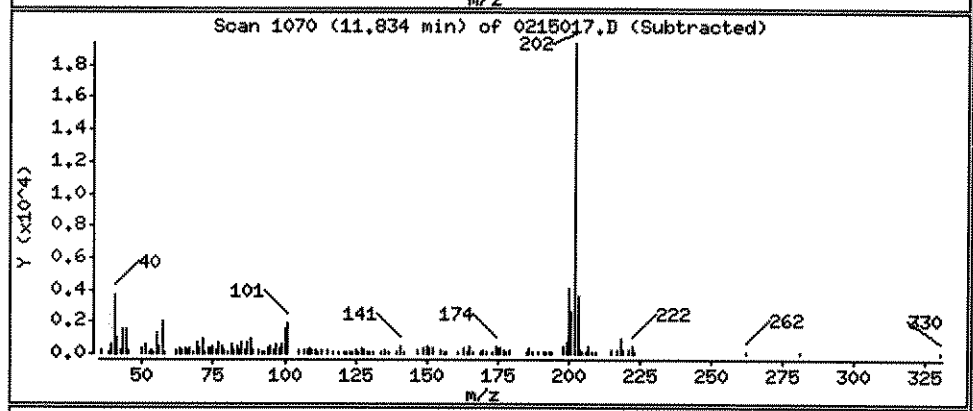
Column phase: fused silica

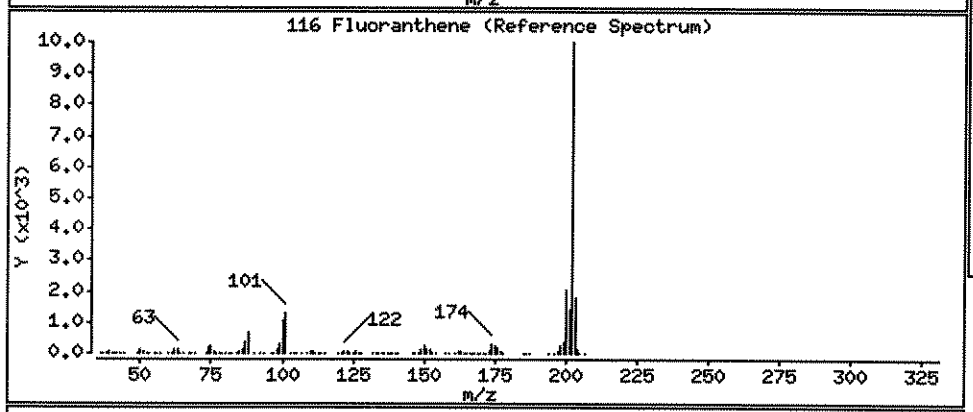
Column diameter: 0.25

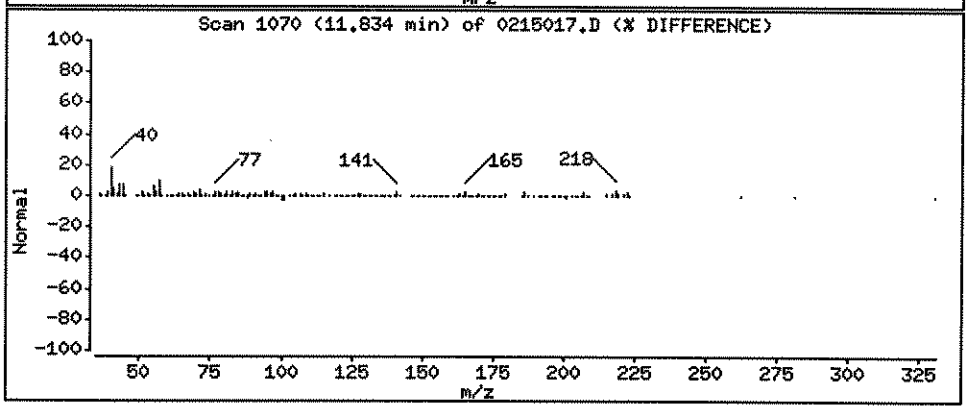
116 Fluoranthene

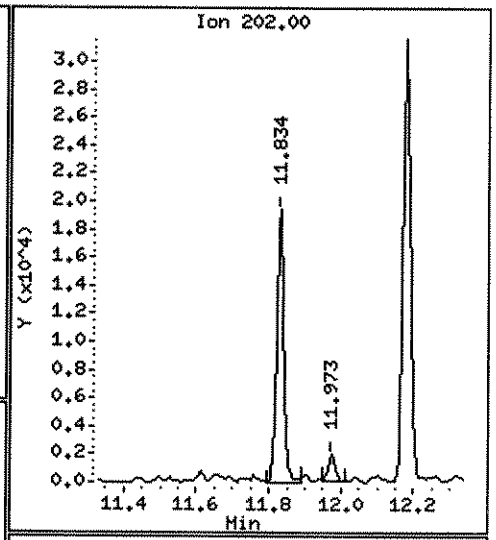
Concentration: 18.95 ug/Kg

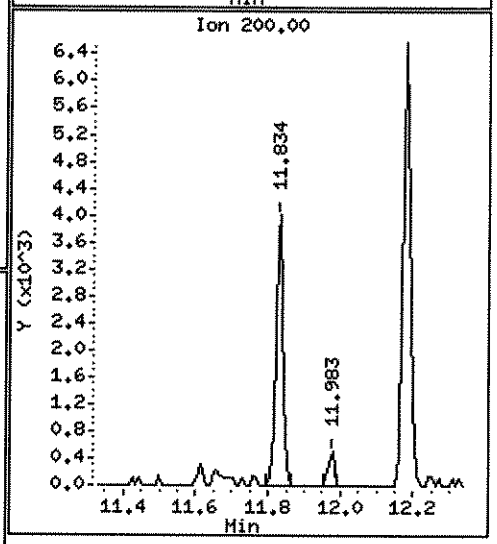












Data File: \\ELABNSH05\TARGET\chem\bna4.i\022412B4E.b\0215017.D

Date : 25-FEB-2012 05:23

Client ID:

Instrument: bna4.i

Sample Info: 1202150-17;1;15;1000;1;ug/Kg;22-FEB-2012

Volume Injected (uL): 1.0

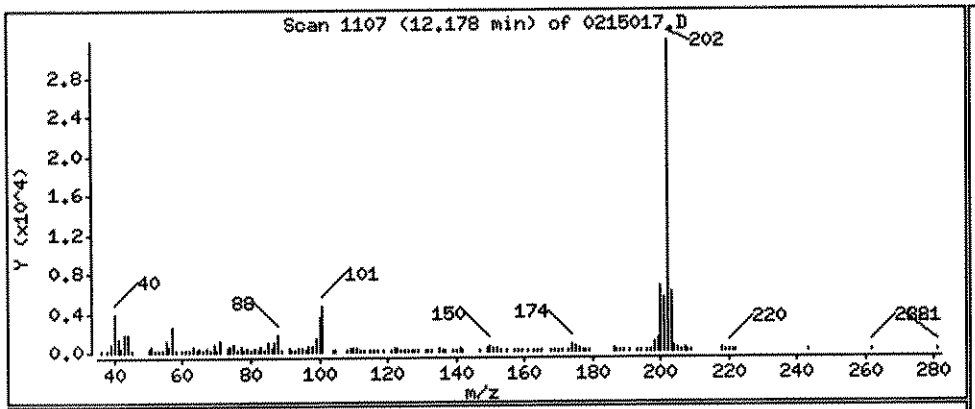
Operator: MEC

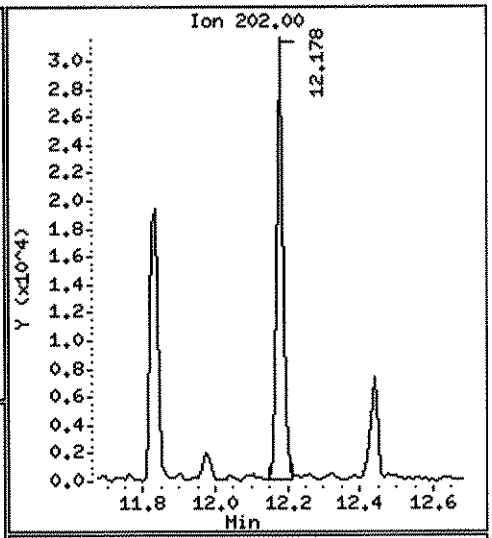
Column phase: fused silica

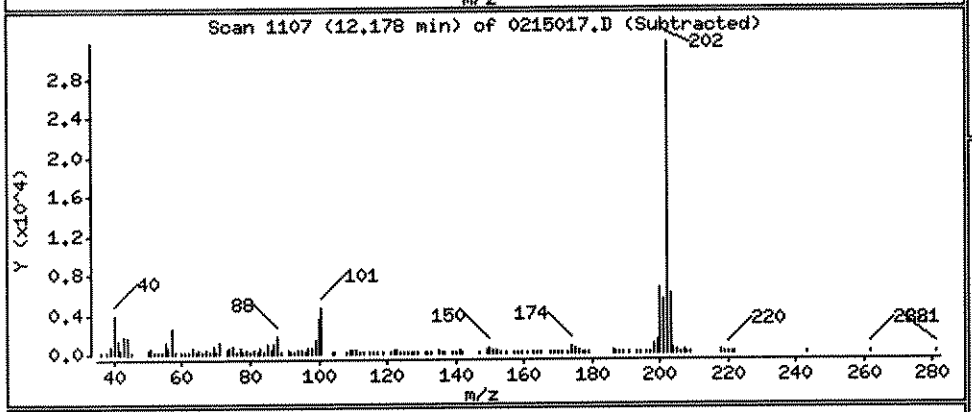
Column diameter: 0.25

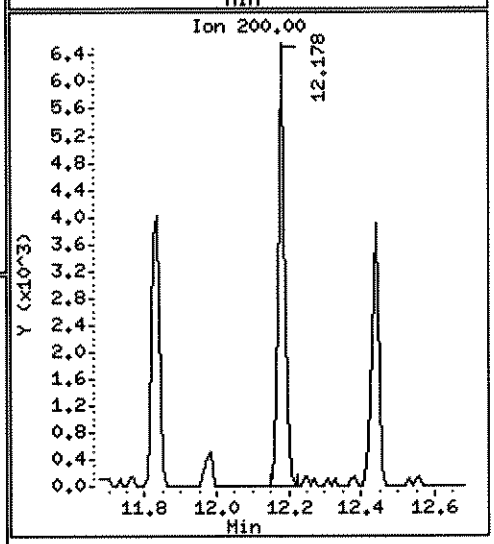
134 Pyrene

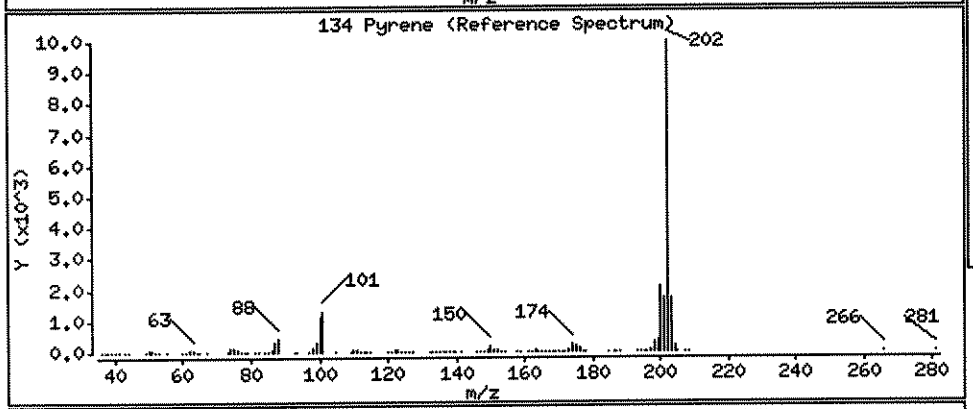
Concentration: 26.34 ug/Kg

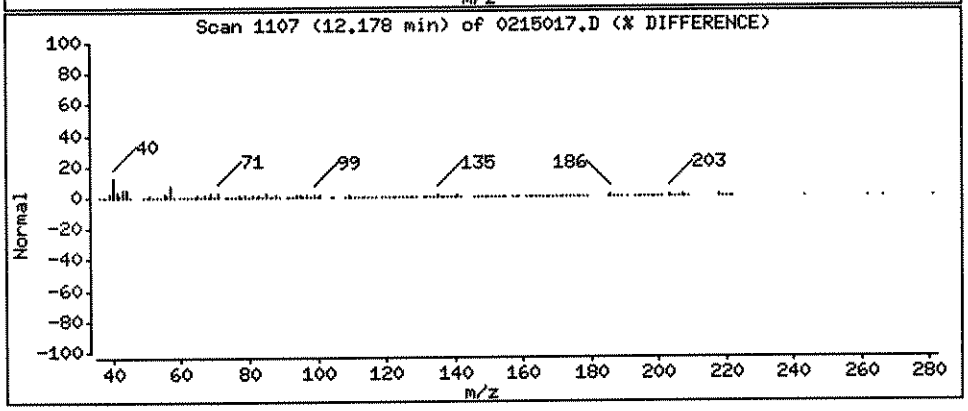












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Date : 25-FEB-2012 05:23

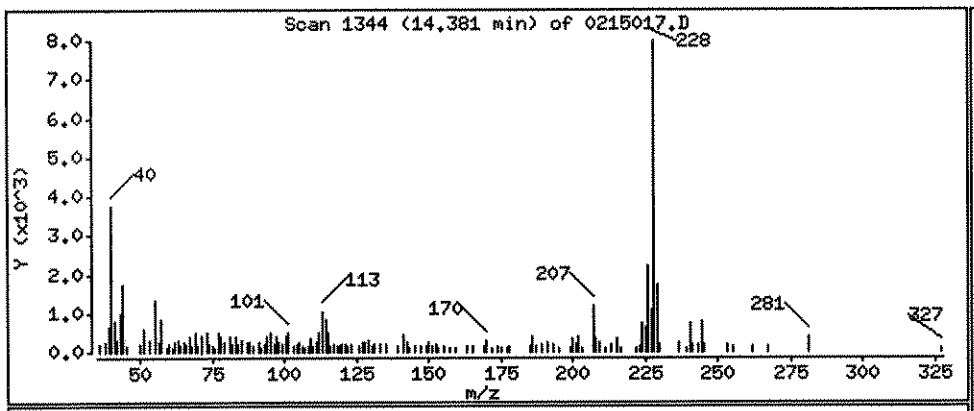
Client ID: Instrument: bna4.i

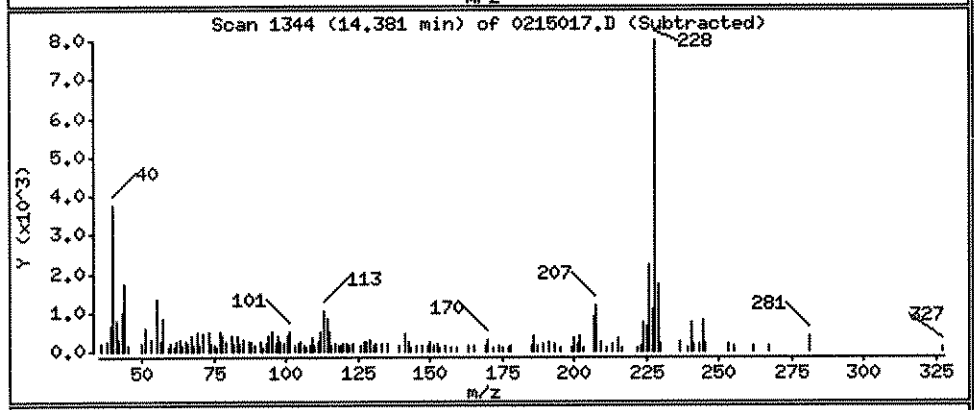
Sample Info: 1202150-17;1;15;1000;1;ug/Kg;22-FEB-2012

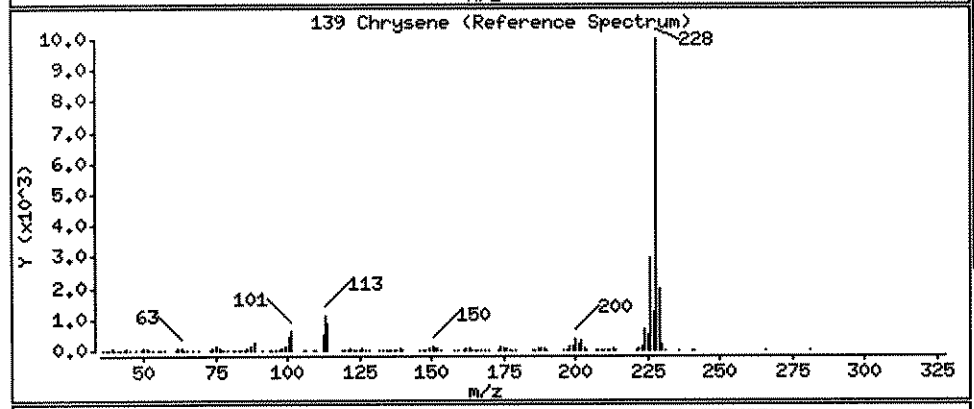
Volume Injected (uL): 1.0 Operator: MEC

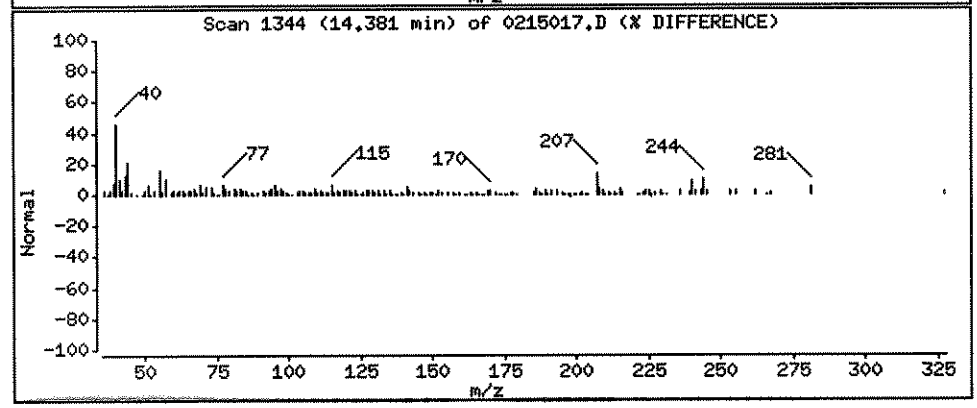
Column phase: fused silica Column diameter: 0.25

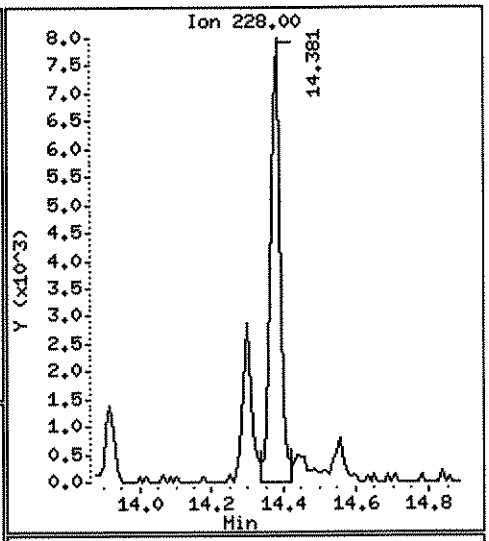
139 Chrysene Concentration: 15.70 ug/Kg

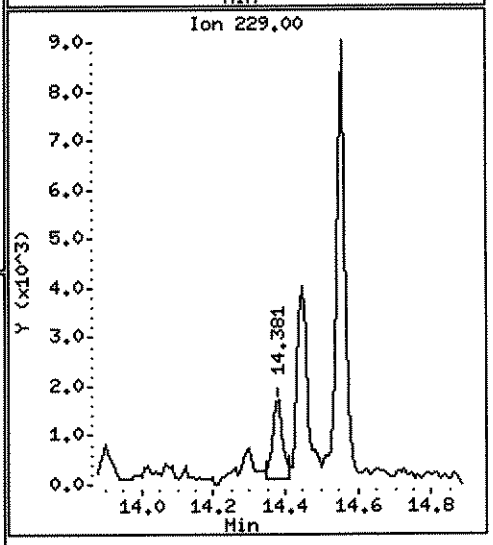












Data File: \\ELABNSHO5\TARGET\chem\bna4.i\022412B4E.b\0215017.D

Date : 25-FEB-2012 06:23

Client ID:

Instrument: bna4.i

Sample Info: 1202150-17;1;15;1000;1;ug/Kg;22-FEB-2012

Volume Injected (uL): 1.0

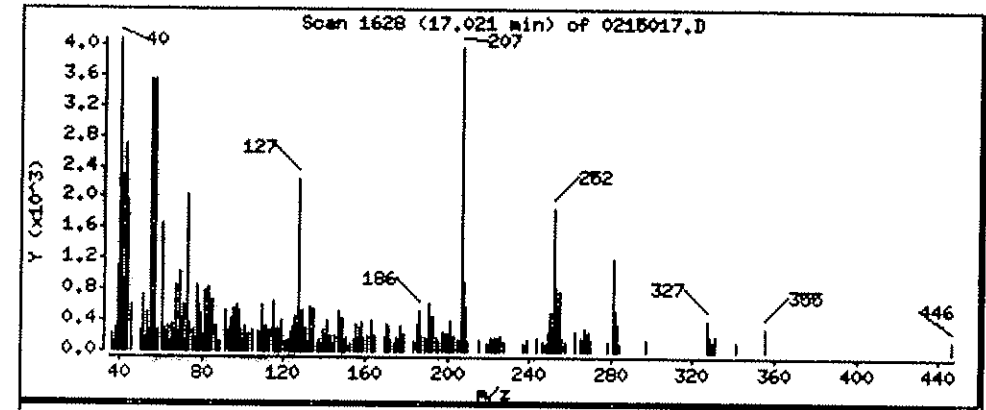
Operator: HEC

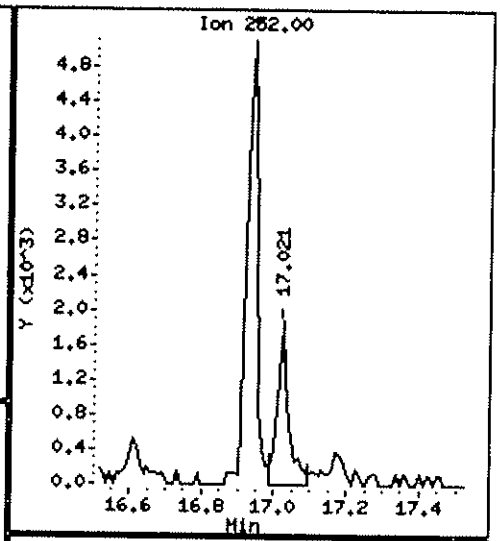
Column phase: fused silica

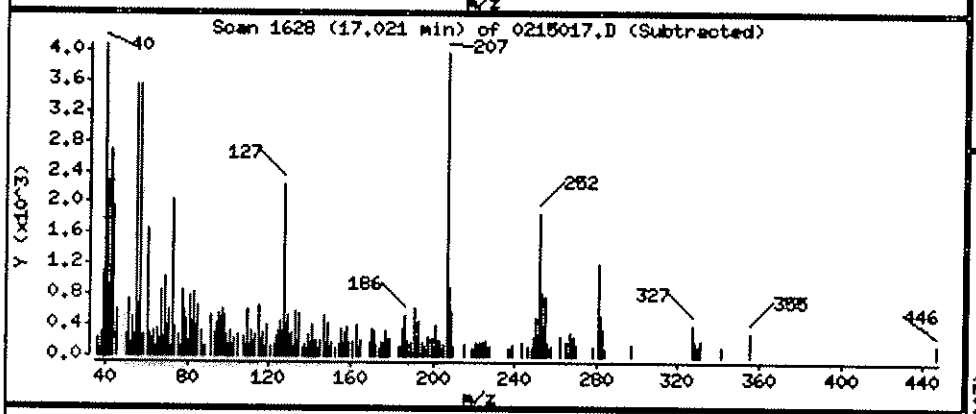
Column diameter: 0.25

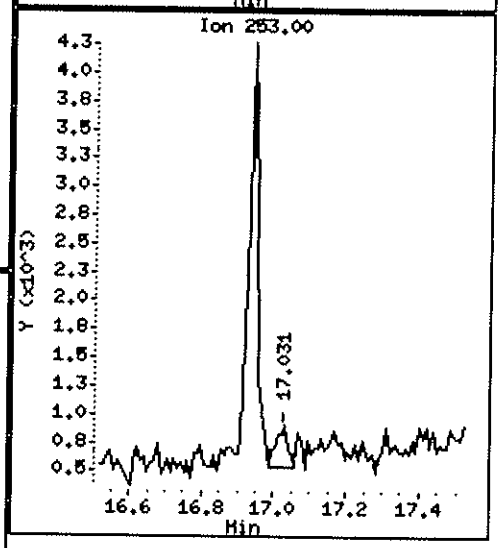
158 Benzo(a)pyrene

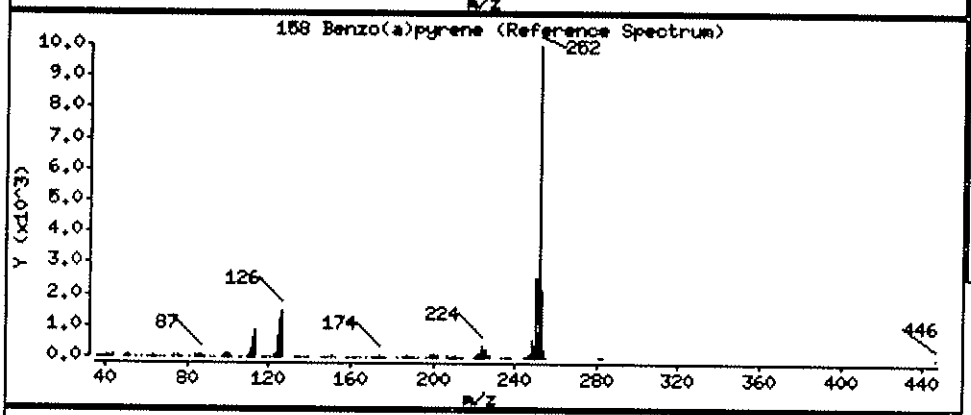
Concentration: 7.703 ug/Kg

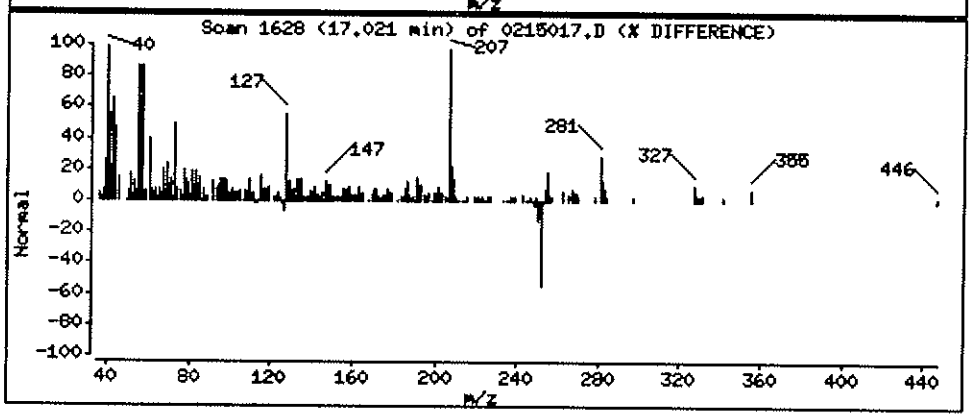






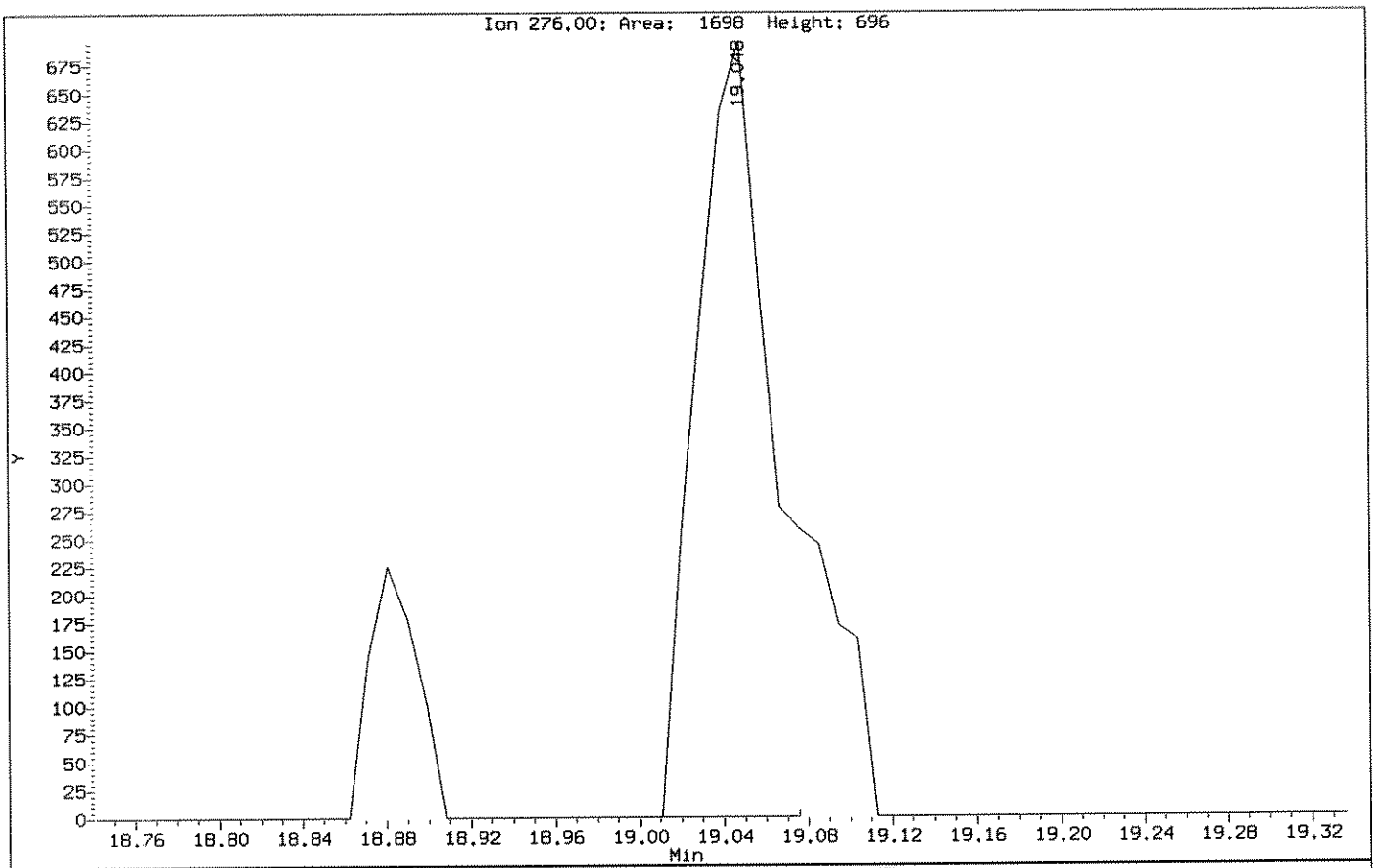


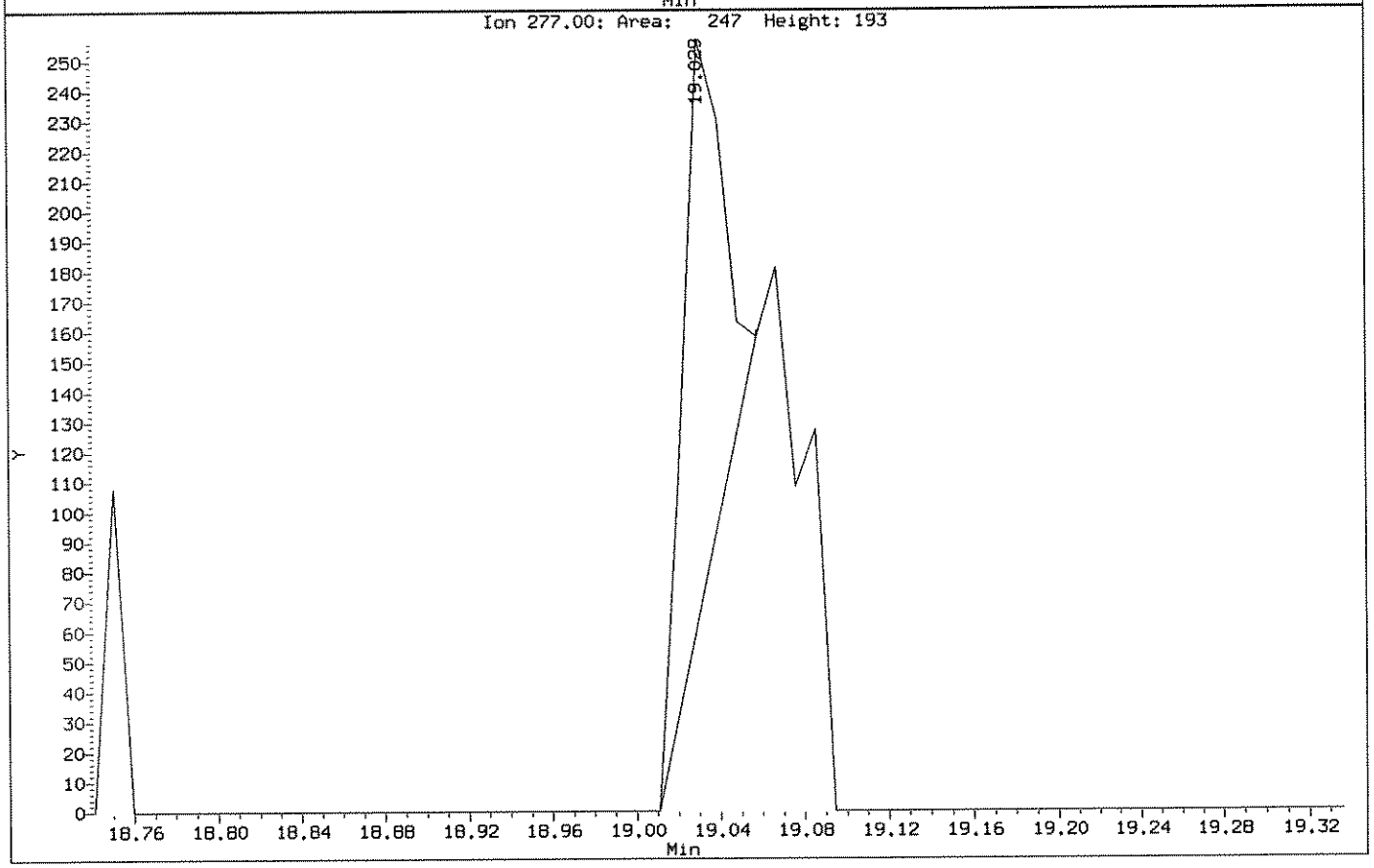




Data File: \\ELABNSHO5\TARGET\chem\bna4.i\022412B4E.b\0215017.D
Injection Date: 25-FEB-2012 05:23
Instrument: bna4.i
Client Sample ID:

Compound: Indeno(1,2,3-cd)pyrene
CAS Number: 193-39-5





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Date : 25-FEB-2012 05:23

Client ID:

Instrument: bna4.i

Sample Info: 1202150-17;1;15;1000;1;ug/Kg;22-FEB-2012

Volume Injected (uL): 1.0

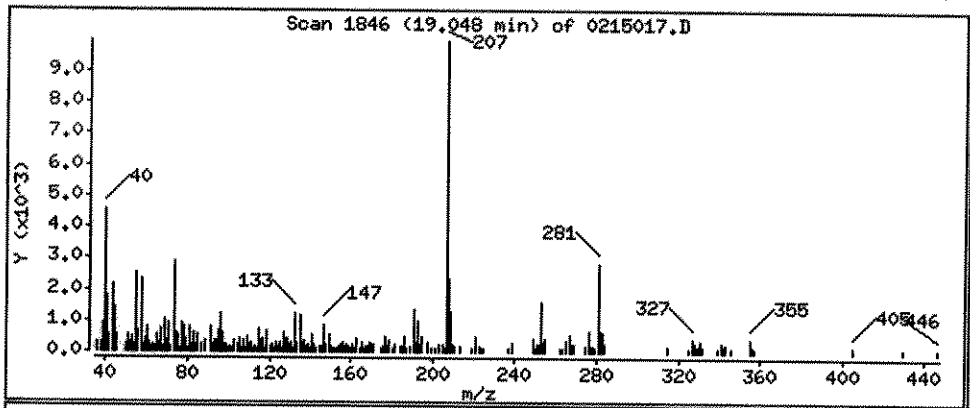
Operator: MEC

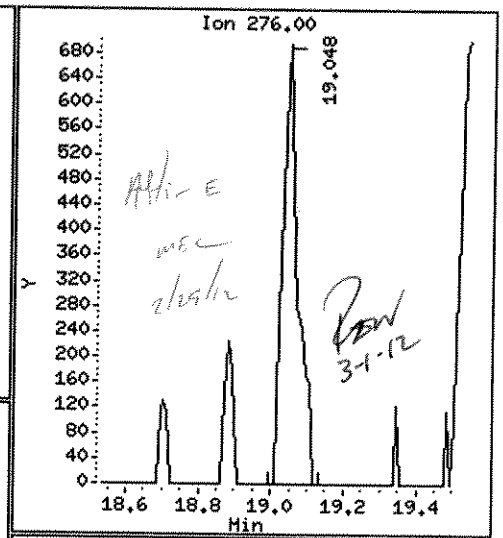
Column phase: fused silica

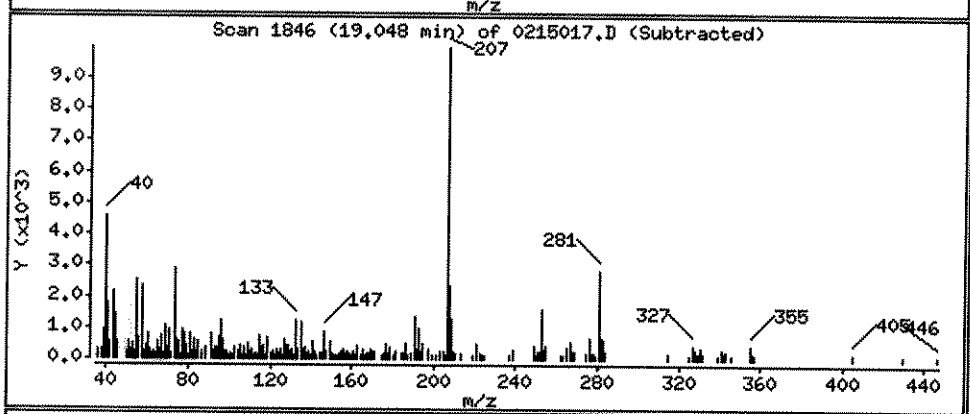
Column diameter: 0.25

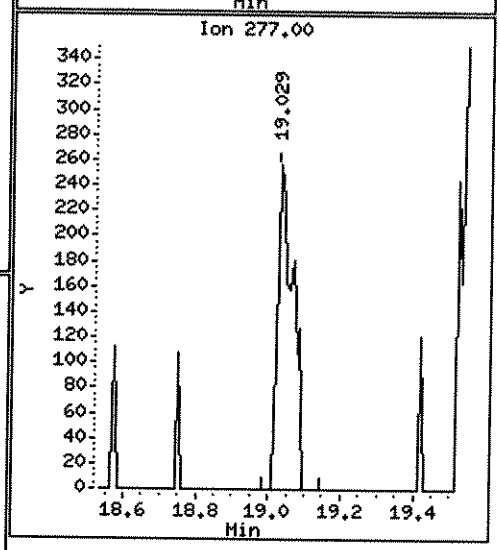
159 Indeno(1,2,3-cd)pyrene

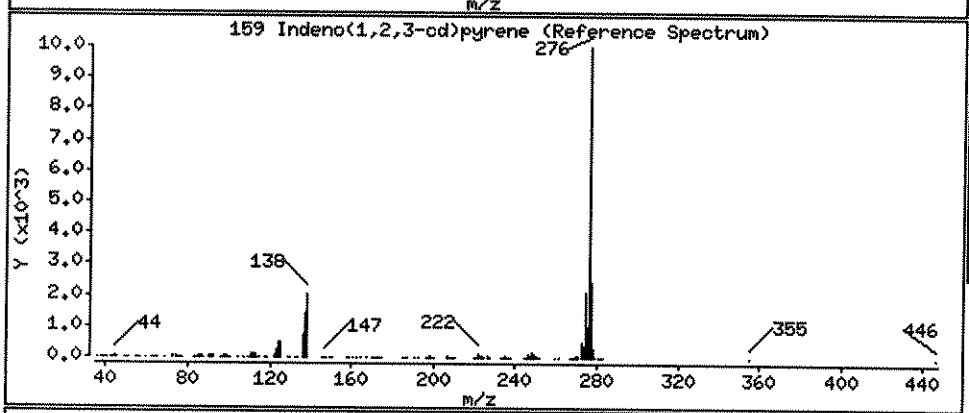
Concentration: 4.648 ug/Kg

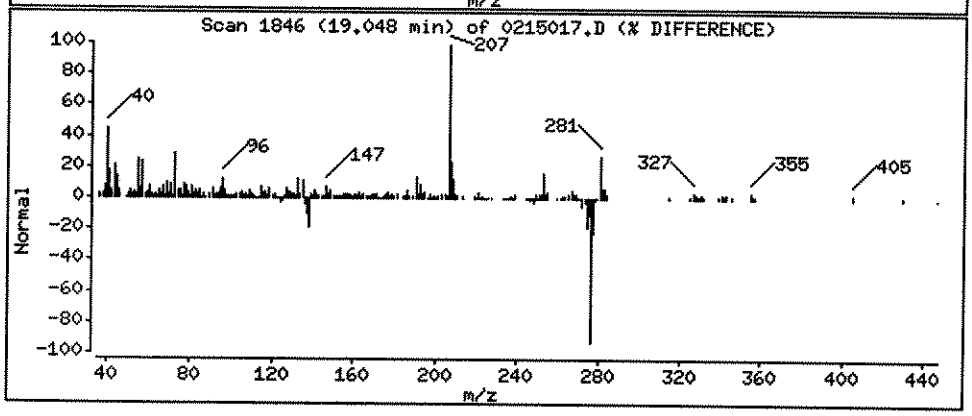












Data File: \\ELABNSH05\TARGET\chem\bna4.i\022412B4E.b\0215017.D

Date : 25-FEB-2012 05:23

Client ID:

Instrument: bna4.i

Sample Info: 1202150-17;1;15;1000;1;ug/Kg;22-FEB-2012

Volume Injected (uL): 1.0

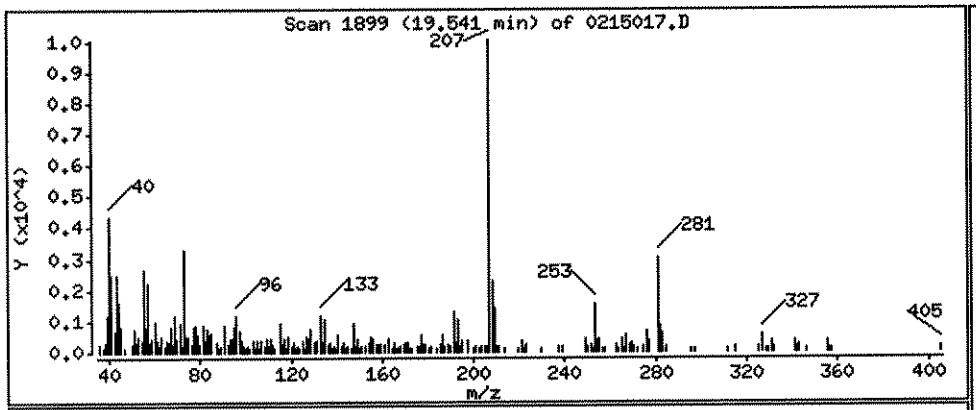
Operator: MEC

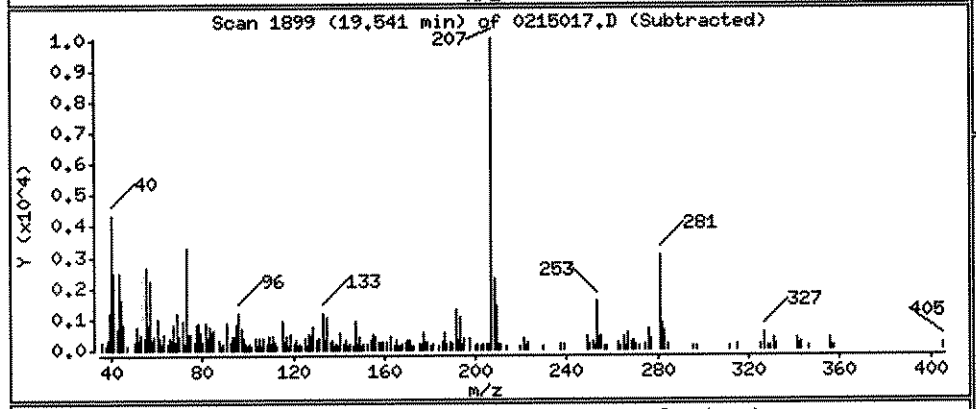
Column phase: fused silica

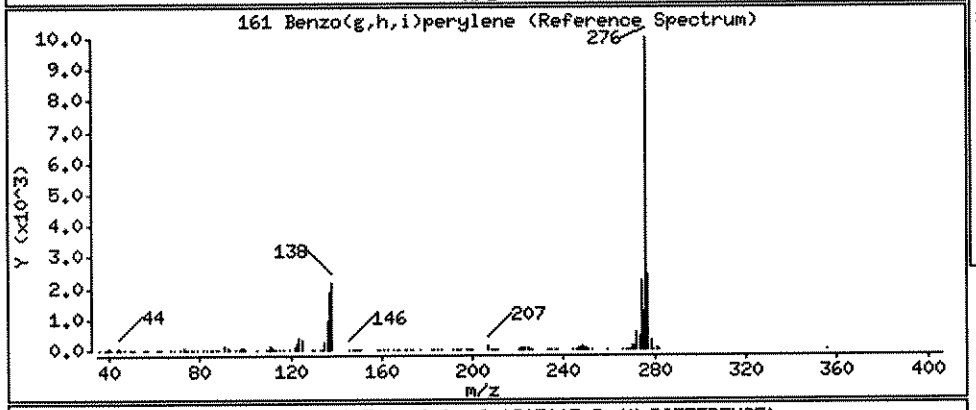
Column diameter: 0.25

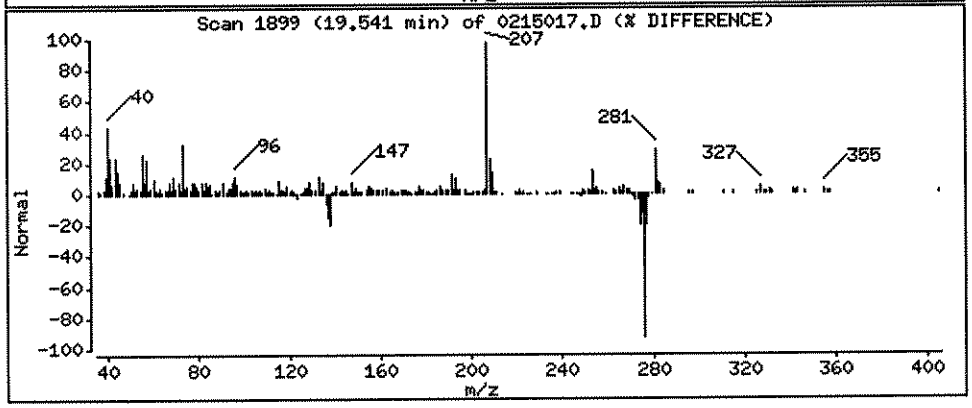
161 Benzo(g,h,i)perylene

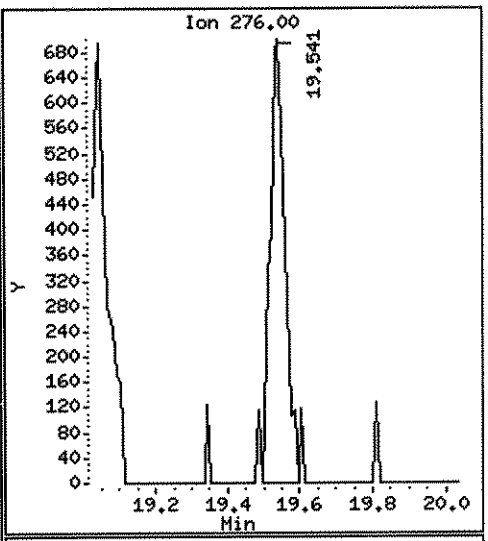
Concentration: 5.206 ug/Kg

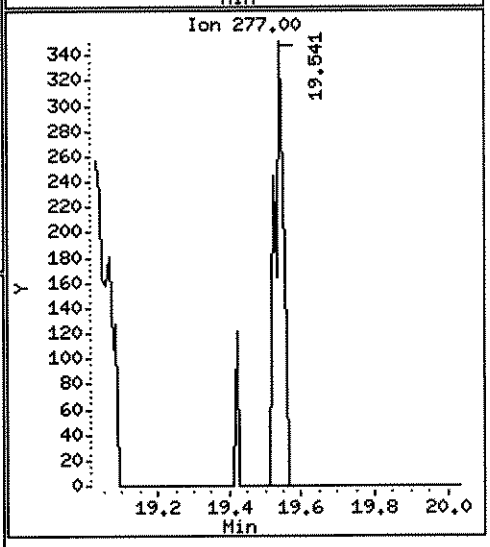












Data File: \\ELABNSH05\TARGET\chem\bna4.i\022412B4E.b\0215018.D
Report Date: 29-Feb-2012 12:14

Laboratory Name

Data file : \\ELABNSH05\TARGET\chem\bna4.i\022412B4E.b\0215018.D
Lab Smp Id: 1202150-18 Client Smp ID: FLC-4-PO6-0204-0221
Inj Date : 25-FEB-2012 05:51 MS Autotune Date: 15-FEB-2012 09:23
Operator : MEC Inst ID: bna4.i
Smp Info : 1202150-18;1;15;1000;1;ug/Kg;22-FEB-2012
Misc Info : ;0;;;;2B22014;pahlow.sub;
Comment :
Method : \\ELABNSH05\TARGET\chem\bna4.i\022412B4E.b\IXBN4LOW.m
Meth Date : 29-Feb-2012 12:10 mcobb Quant Type: ISTD
Cal Date : 20-FEB-2012 16:29 Cal File: SEQ-CAL1.D
Als bottle: 41
Dil Factor: 1.00000
Integrator: HP RTE Compound Sublist: pahlow.sub
Target Version: 4.04
Processing Host: TARGET09_VM

Concentration Formula: Amt * DF * Uf * Vt*Vi/(Amt * Vi * (Solids/100))

Name	Value	Description
DF	1.000	Dilution Factor
Uf	1.000	ng unit correction factor
Vt	1000.000	Volume of final extract (uL)(1000 low, 2
Amt	15.000	Mass of initial extraction
Vi	1.000	Volume injected (uL)
Solids	100.000	Percent Solids

Rev 3-1-12

Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS ON-COLUMN (ng/ul)	FINAL (ug/Kg)
$ 74 2-Fluorobiphenyl	172	7.557	7.557	(0.741)	2960621	35.1520	2343
* 102 Phenanthrene-d10	188	10.197	10.197	(1.000)	104763	1.00000	
111 Phenanthrene	178	10.225	10.225	(1.003)	3776	0.03650	2.433(a)
116 Fluoranthene	202	11.824	11.833	(1.160)	4369	0.04110	2.740(a)
134 Pyrene	202	12.178	12.177	(1.194)	3751	0.03426	2.284(a)
* 154 Perylene-d12	264	17.132	17.123	(1.000)	39798	1.00000	
$ 135 Terphenyl-d14	244	12.438	12.428	(1.220)	3521307	48.6357	3242
138 Benzo(a)anthracene	228	14.297	14.297	(1.402)	1492	0.02159	1.439(a)

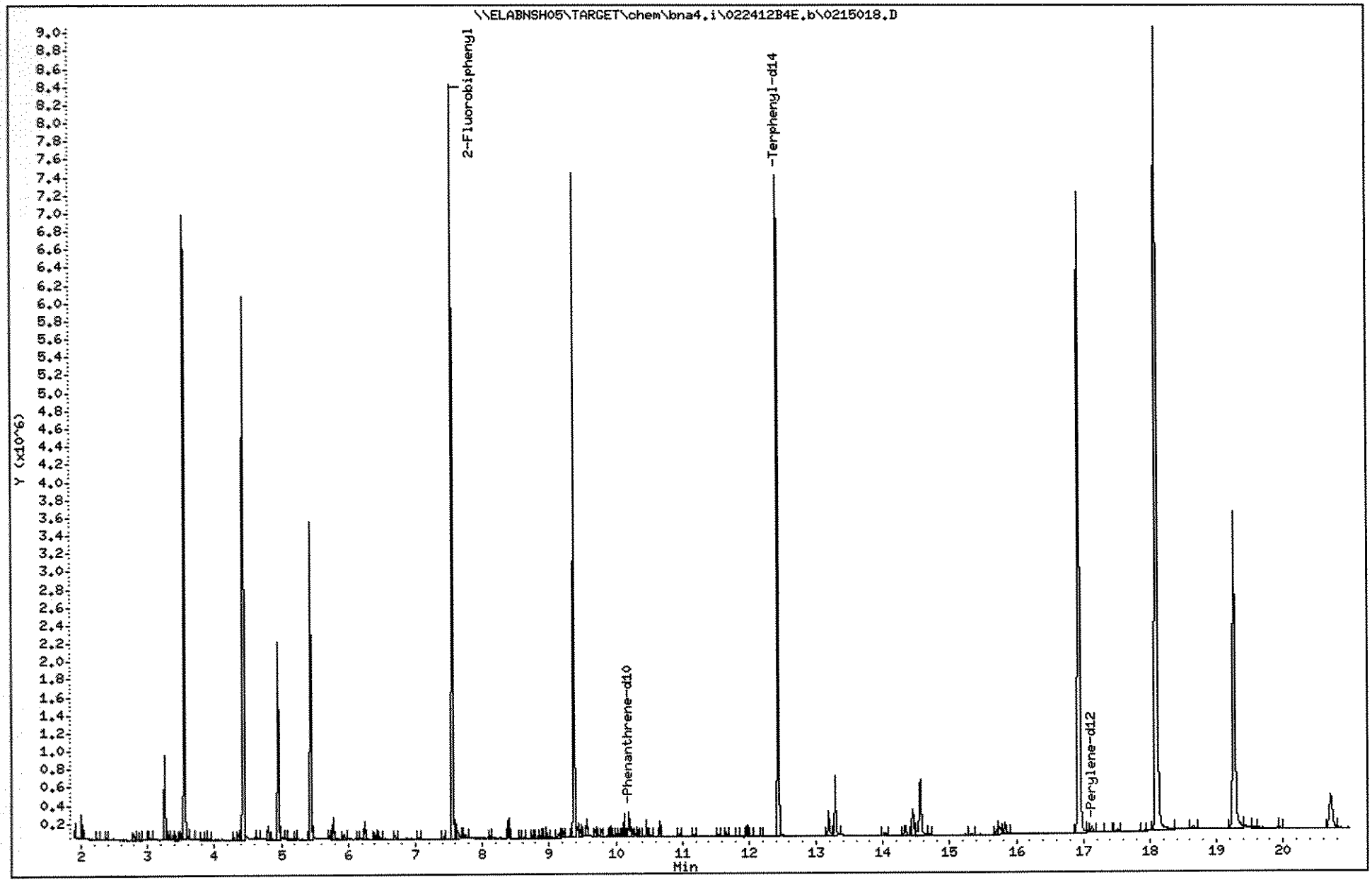
QC Flag Legend

a - Target compound detected but, quantitated amount
Below Limit Of Quantitation(BLOQ).

MEC
2/29/12

Data File: \\ELABNSH05\TARGET\chem\bna4.i\022412B4E.b\0215018.D
Date : 25-FEB-2012 05:51
Client ID: FLC-4-P06-0204-0221
Sample Info: 1202150-18;1;15;1000;1;ug/Kg;22-FEB-2012
Volume Injected (uL): 1.0
Column phase: fused silica

Instrument: bna4.i
Operator: MEC
Column diameter: 0.25



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Date : 25-FEB-2012 05:51

Client ID: FLC-4-P06-0204-0221

Instrument: bna4.i

Sample Info: 1202150-18;1;15;1000;1;ug/Kg;22-FEB-2012

Volume Injected (uL): 1.0

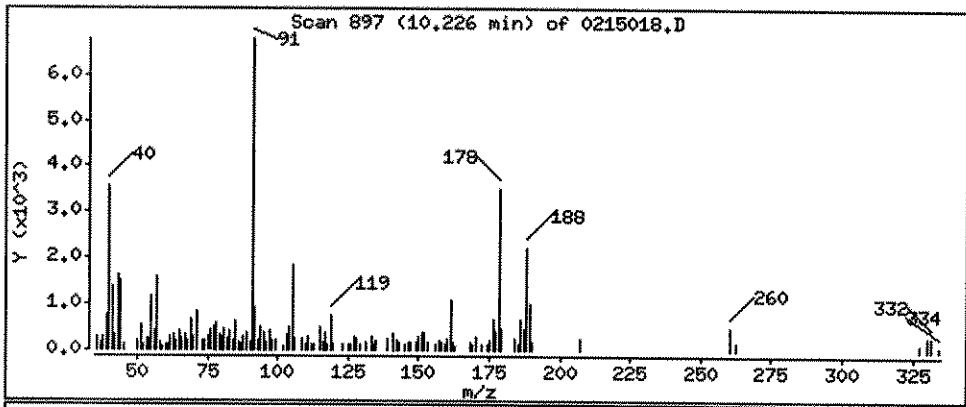
Operator: MEC

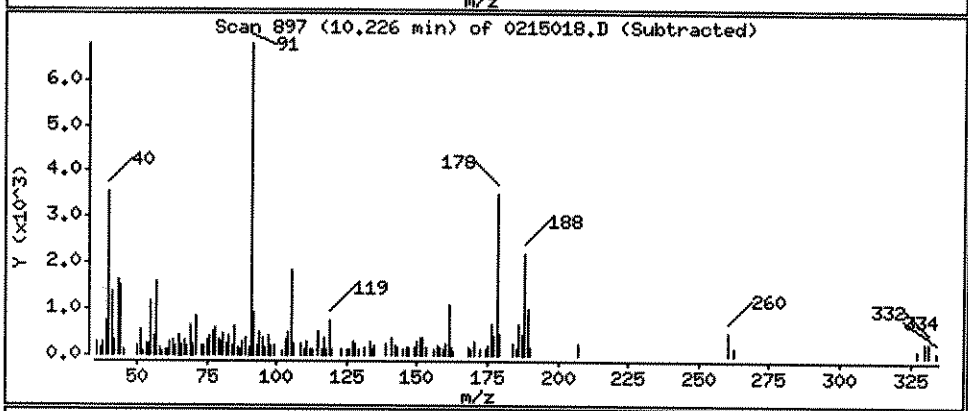
Column phase: fused silica

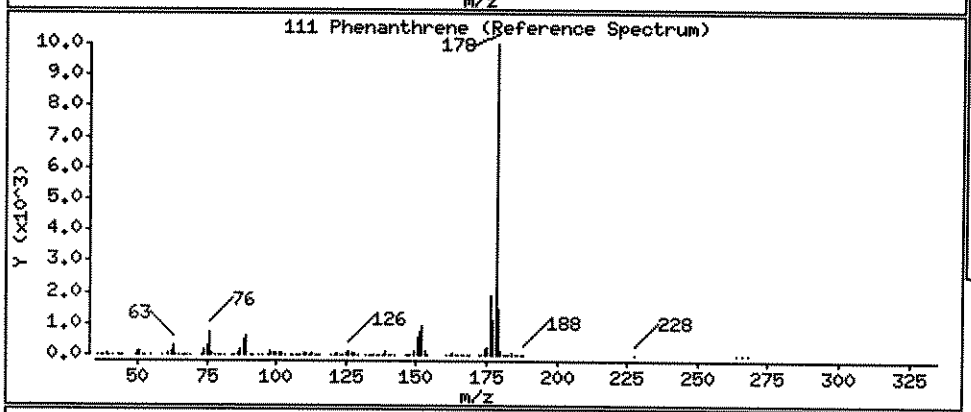
Column diameter: 0.25

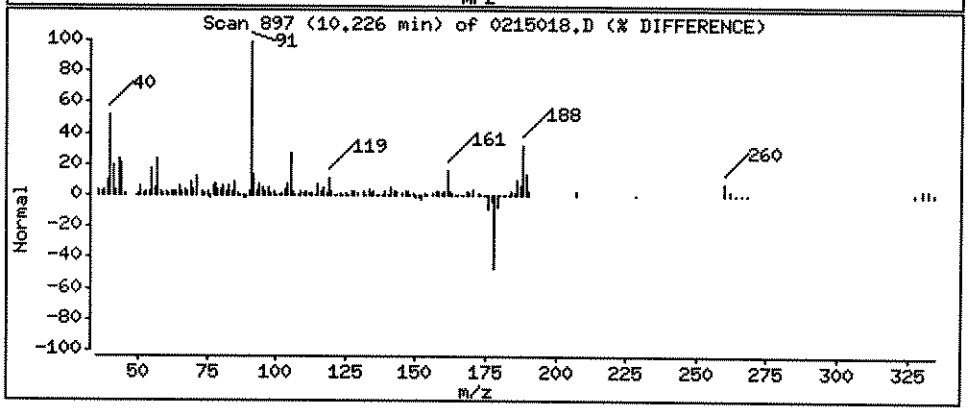
111 Phenanthrene

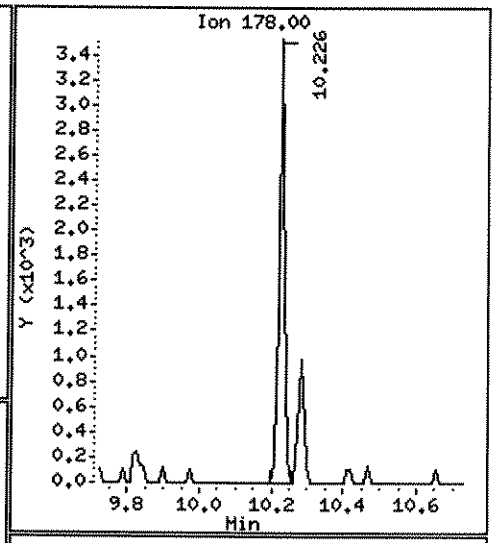
Concentration: 2.433 ug/Kg

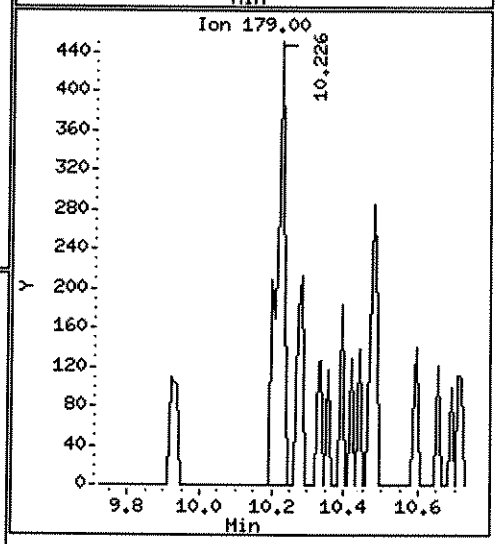












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Date : 25-FEB-2012 05:51

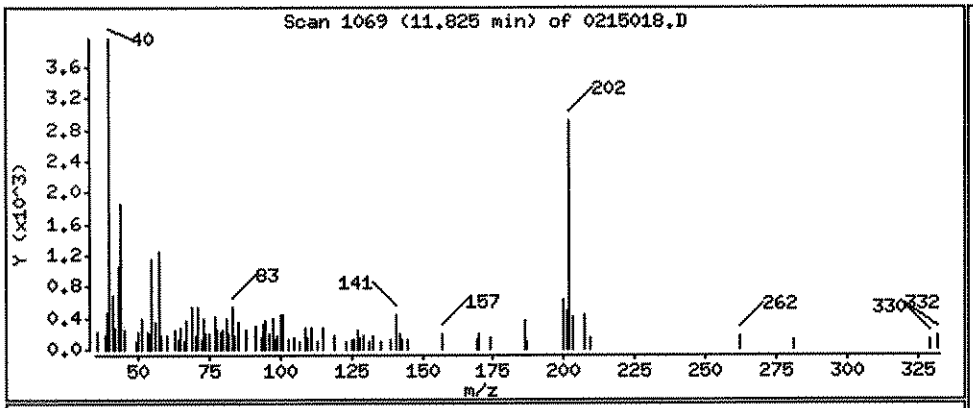
Client ID: FLC-4-P06-0204-0221 Instrument: bna4.i

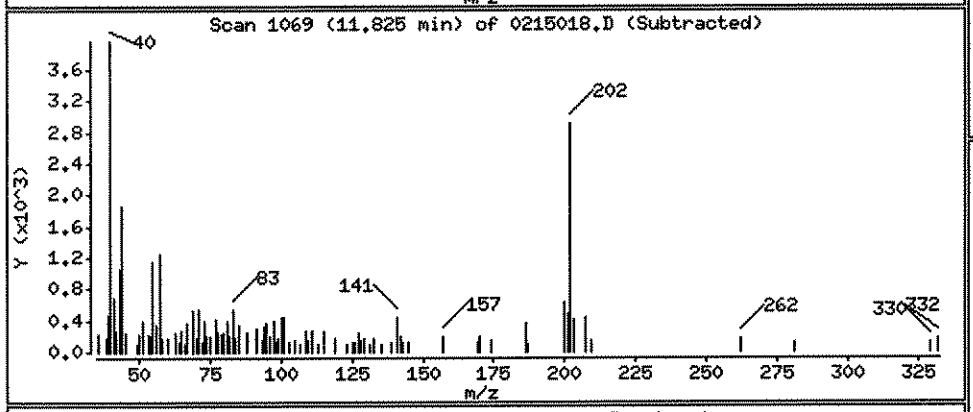
Sample Info: 1202150-18;1;15;1000;1;ug/Kg;22-FEB-2012

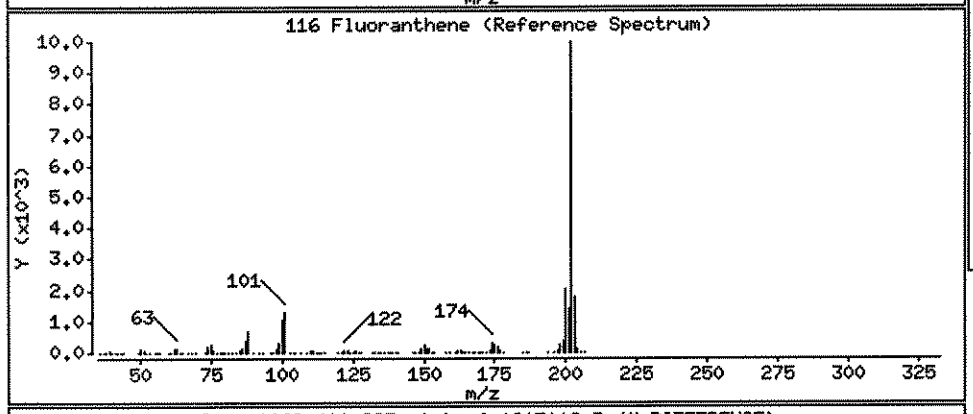
Volume Injected (uL): 1.0 Operator: MEC

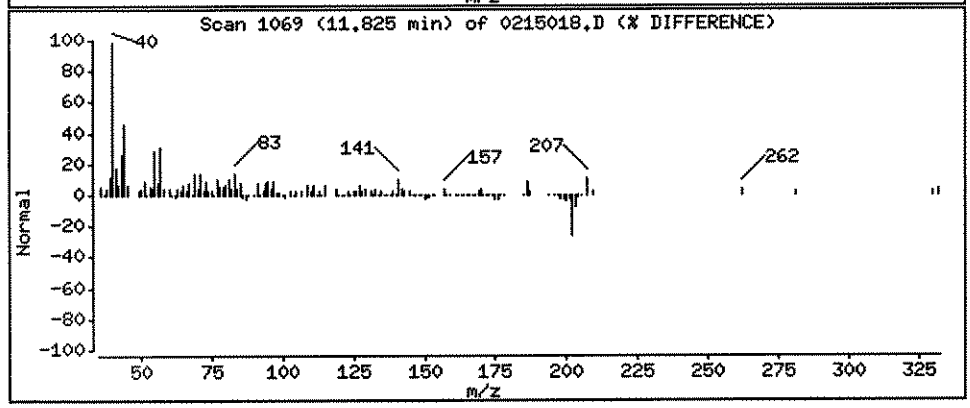
Column phase: fused silica Column diameter: 0.25

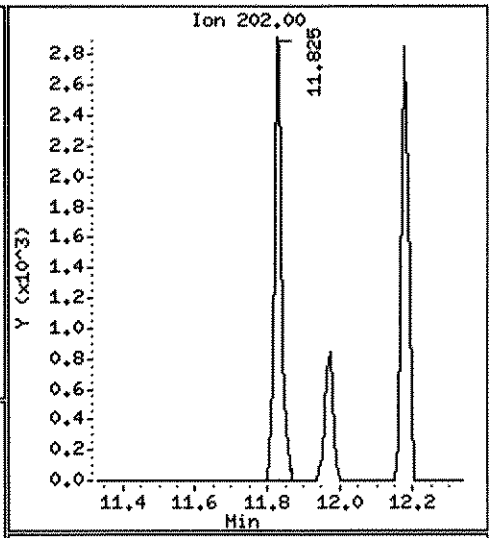
116 Fluoranthene Concentration: 2.740 ug/Kg

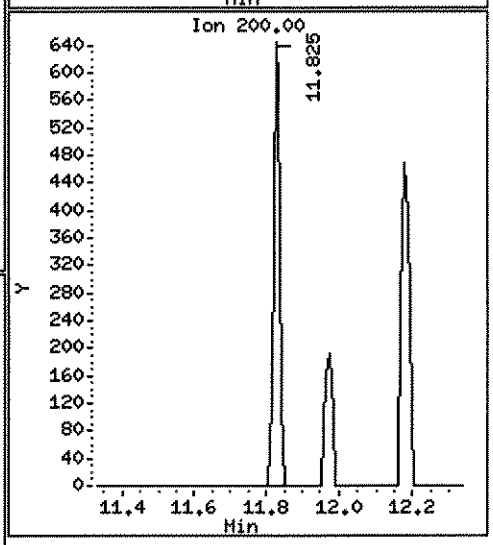












Data File: \\ELABNSH05\TARGET\chem\bna4.i\022412B4E.b\0215018.D

Date : 25-FEB-2012 05:51

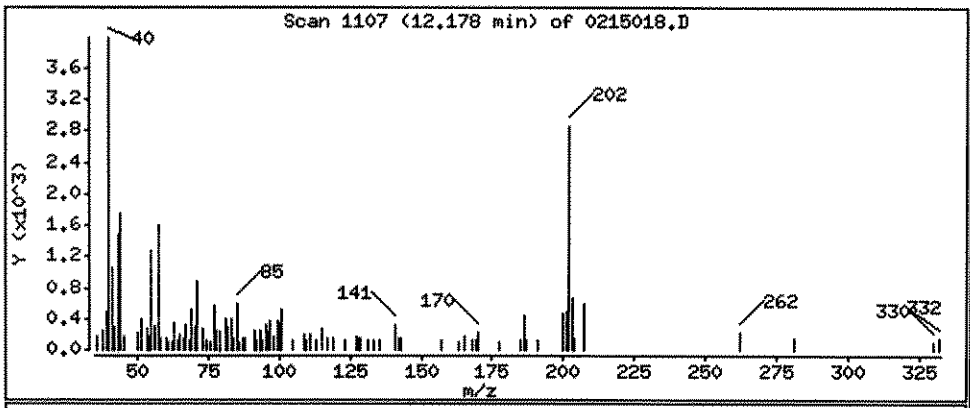
Client ID: FLC-4-P06-0204-0221 Instrument: bna4.i

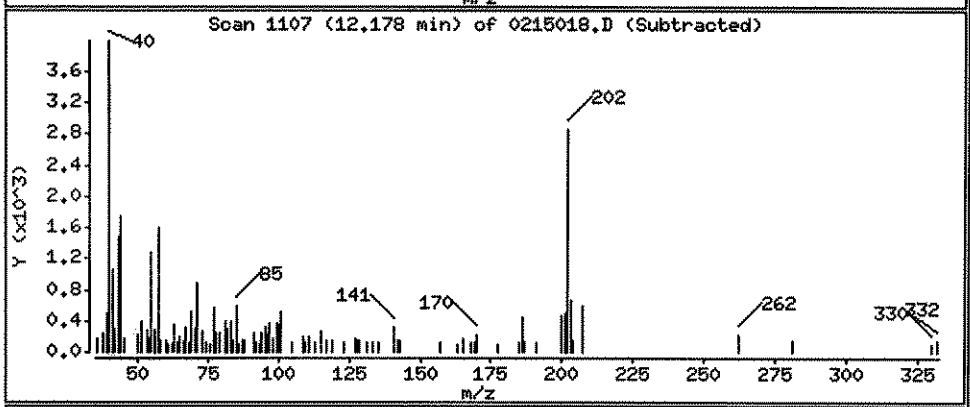
Sample Info: 1202150-18;1;15;1000;1;ug/Kg;22-FEB-2012

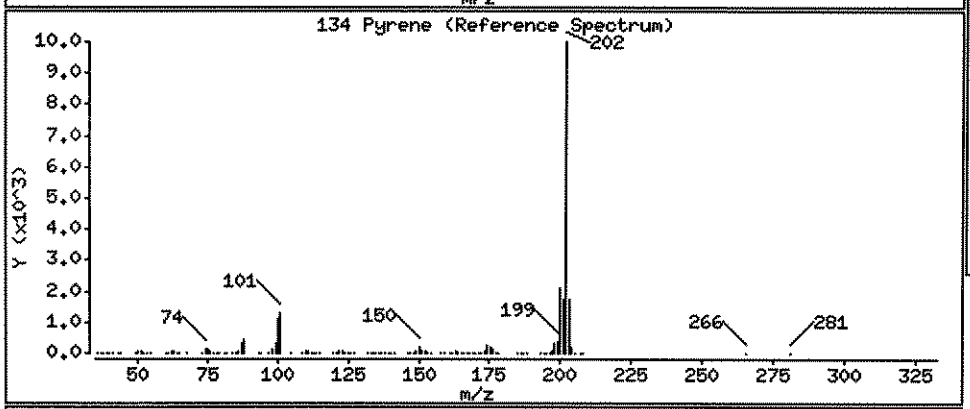
Volume Injected (uL): 1.0 Operator: MEC

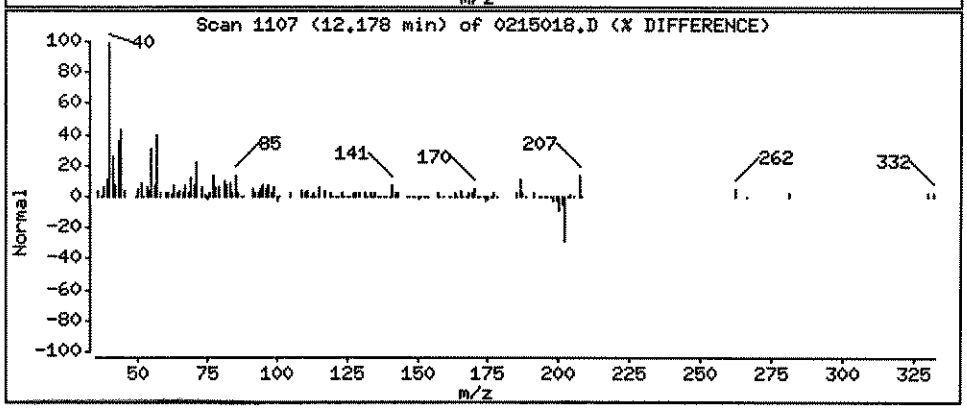
Column phase: fused silica Column diameter: 0.25

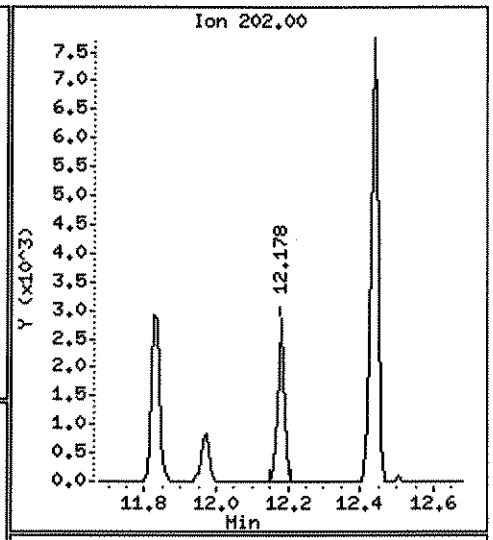
134 Pyrene Concentration: 2.284 ug/Kg

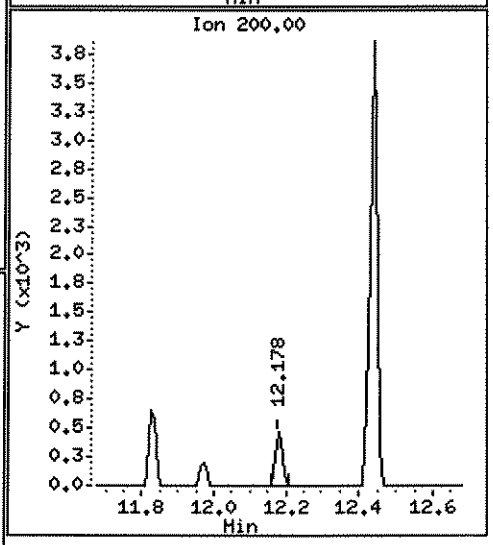












Data File: \\ELABNSH05\TARGET\chem\bna4.i\022412B4E.b\0215018.D

Date : 25-FEB-2012 05:51

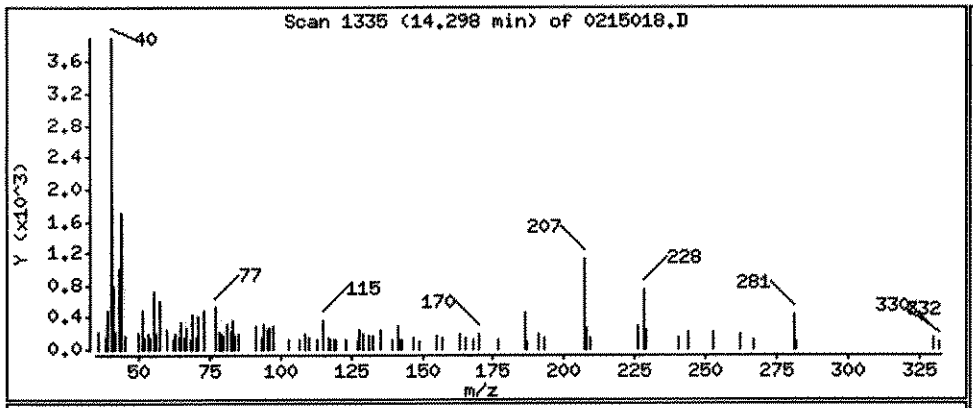
Client ID: FLC-4-P06-0204-0221 Instrument: bna4.i

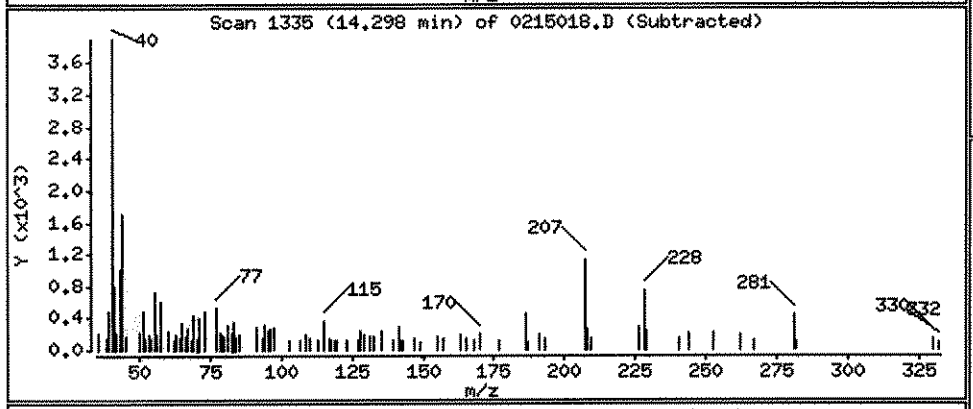
Sample Info: 1202150-18;1;15;1000;1;ug/Kg;22-FEB-2012

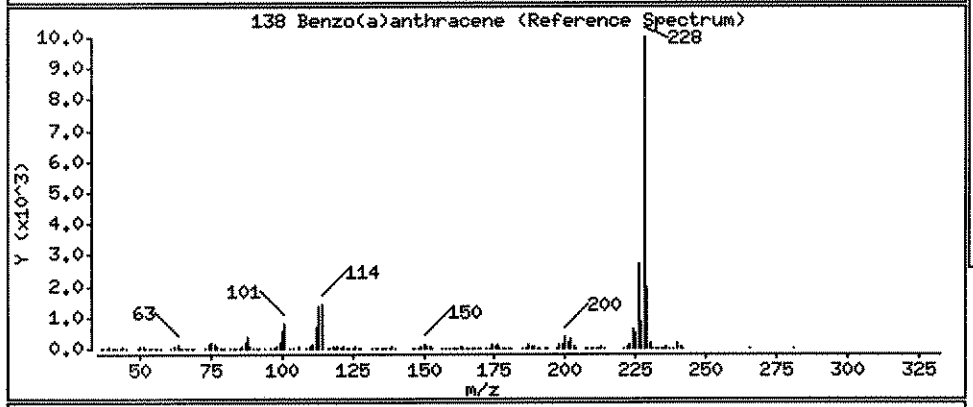
Volume Injected (uL): 1.0 Operator: MEC

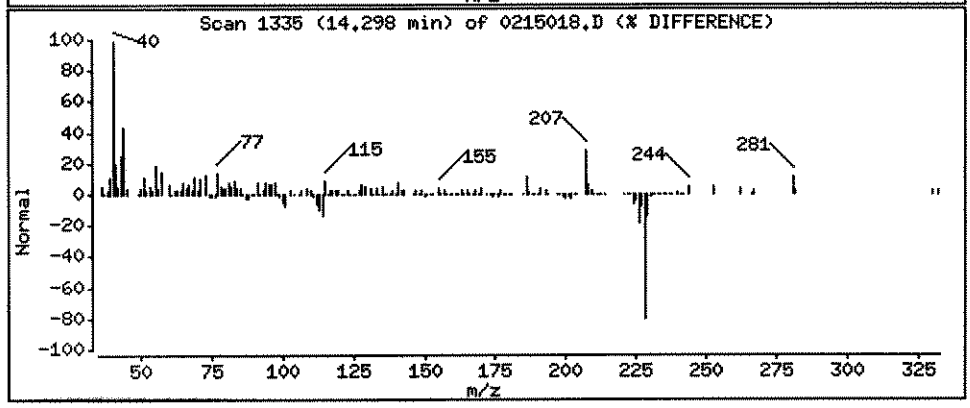
Column phase: fused silica Column diameter: 0.25

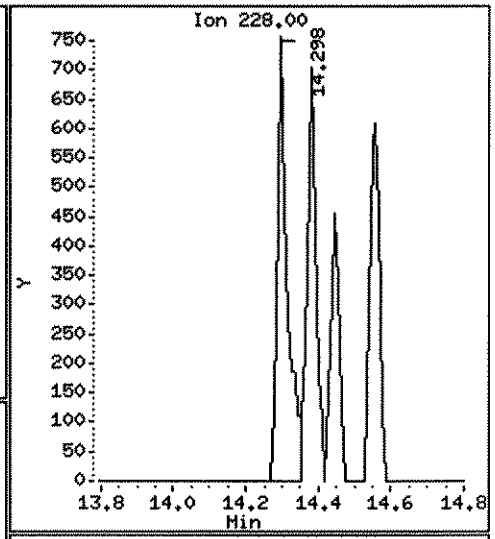
138 Benzo(a)anthracene Concentration: 1.439 ug/Kg

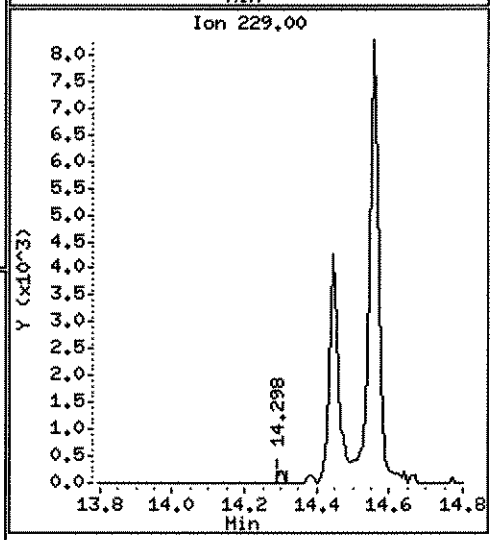












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Report Date: 29-Feb-2012 12:14

Laboratory Name

Data file : \\ELABNSH05\TARGET\chem\bna4.i\022412B4E.b\0215019.D
Lab Smp Id: 1202150-19
Inj Date : 25-FEB-2012 06:19 MS Autotune Date: 15-FEB-2012 09:23
Operator : MEC Inst ID: bna4.i
Smp Info : 1202150-19;1;15;1000;1;ug/Kg;22-FEB-2012
Misc Info : ;0;;;;2B22014;pahlow.sub;
Comment :
Method : \\ELABNSH05\TARGET\chem\bna4.i\022412B4E.b\IXBN4LOW.m
Meth Date : 29-Feb-2012 12:10 mcobb Quant Type: ISTD
Cal Date : 20-FEB-2012 16:29 Cal File: SEQ-CAL1.D
Als bottle: 42
Dil Factor: 1.00000
Integrator: HP RTE Compound Sublist: pahlow.sub
Target Version: 4.04
Processing Host: TARGET09_VM

Concentration Formula: Amt * DF * Uf * Vt*Vi/(Amt * Vi * (Solids/100))

Name	Value	Description
DF	1.000	Dilution Factor
Uf	1.000	ng unit correction factor
Vt	1000.000	Volume of final extract (uL)(1000 low, 2
Amt	15.000	Mass of initial extraction
Vi	1.000	Volume injected (uL)
Solids	100.000	Percent Solids

3-1-12

Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS ON-COLUMN (ng/ul)	FINAL (ug/Kg)
$ 74 2-Fluorobiphenyl	172	7.557	7.557	(0.741)	2903296	35.1515	2343
* 102 Phenanthrene-d10	188	10.197	10.197	(1.000)	102736	1.00000	
111 Phenanthrene	178	10.225	10.225	(1.003)	3925	0.03869	2.579(a)
116 Fluoranthene	202	11.833	11.833	(1.160)	8234	0.07899	5.266
134 Pyrene	202	12.177	12.177	(1.194)	8713	0.08114	5.410
* 154 Perylene-d12	264	17.132	17.123	(1.000)	39789	1.00000	
$ 135 Terphenyl-d14	244	12.438	12.428	(1.220)	3375494	47.5417	3169
138 Benzo(a)anthracene	228	14.297	14.297	(1.402)	2784	0.04108	2.738(aM)
139 Chrysene	228	14.380	14.381	(1.410)	4048	0.05974	3.983

MEC
2/29/12

Data File: \\ELABNSH05\TARGET\chem\bna4.i\022412B4E.b\0215019.D
Report Date: 29-Feb-2012 12:14

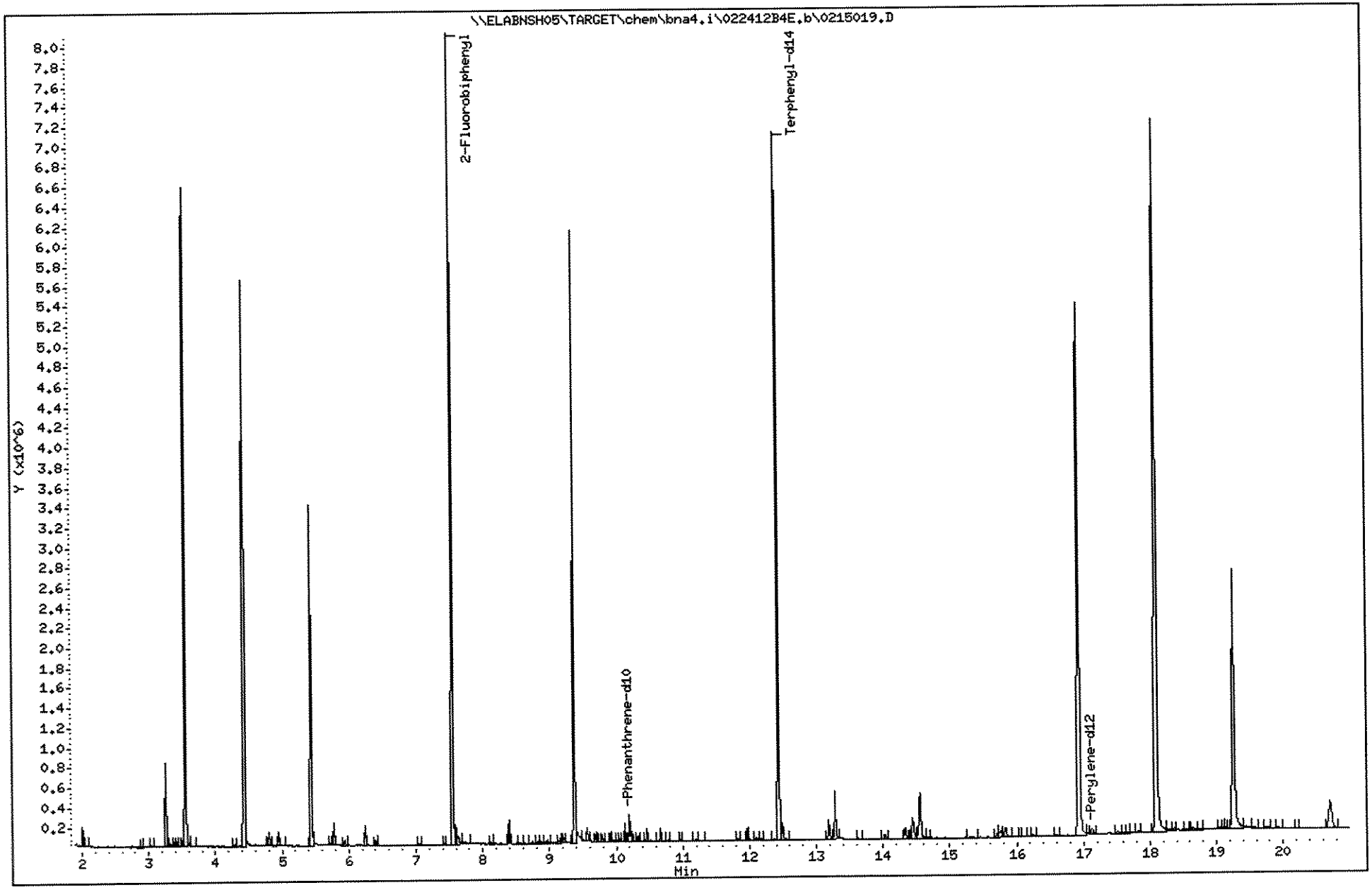
QC Flag Legend

a - Target compound detected but, quantitated amount
    Below Limit Of Quantitation(BLOQ).
M - Compound response manually integrated.

Data File: \\ELABNSH05\TARGET\chem\bna4.i\022412B4E.b\0215019.D
Date : 25-FEB-2012 06:19
Client ID:
Sample Info: 1202150-19;1;15;1000;1;ug/Kg;22-FEB-2012
Volume Injected (uL): 1.0
Column phase: fused silica

Instrument: bna4.i

Operator: MEC
Column diameter: 0.25



1202150

Data File: \\ELABNSH05\TARGET\chem\bna4.i\022412B4E.b\0215019.D

Date : 25-FEB-2012 06:19

Client ID:

Instrument: bna4.i

Sample Info: 1202150-19;1;15;1000;1;ug/Kg;22-FEB-2012

Volume Injected (uL): 1.0

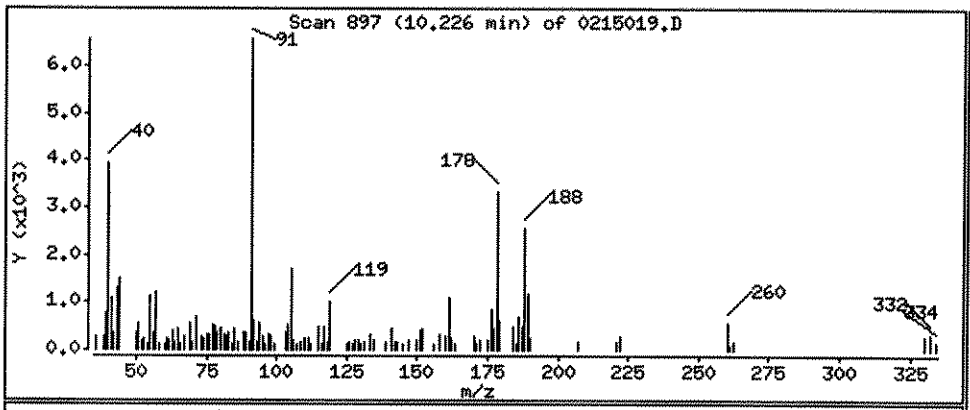
Operator: MEC

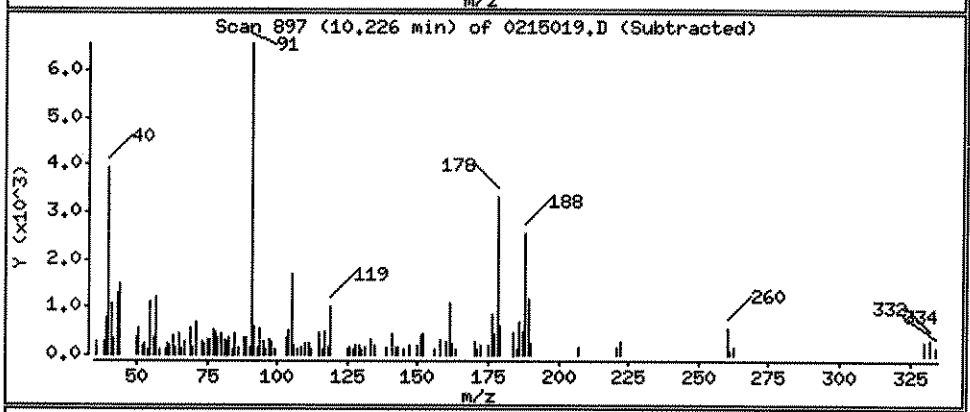
Column phase: fused silica

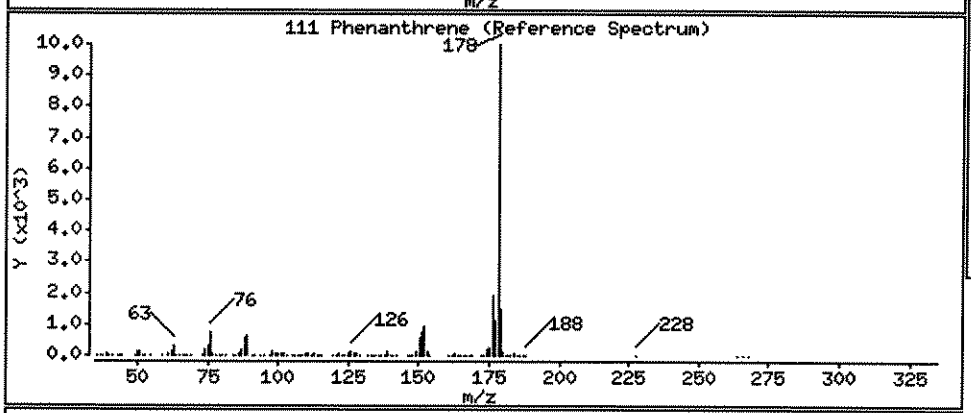
Column diameter: 0.25

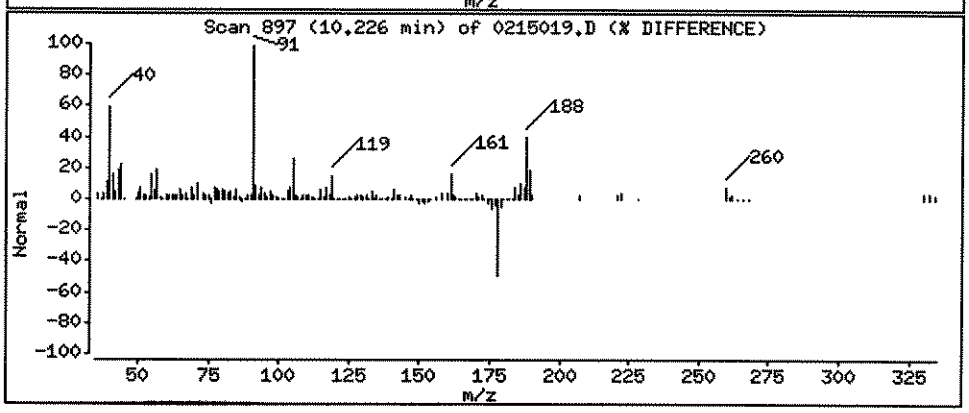
111 Phenanthrene

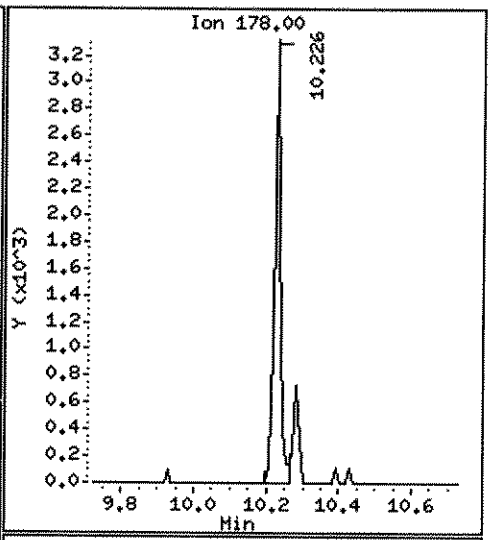
Concentration: 2.579 ug/Kg

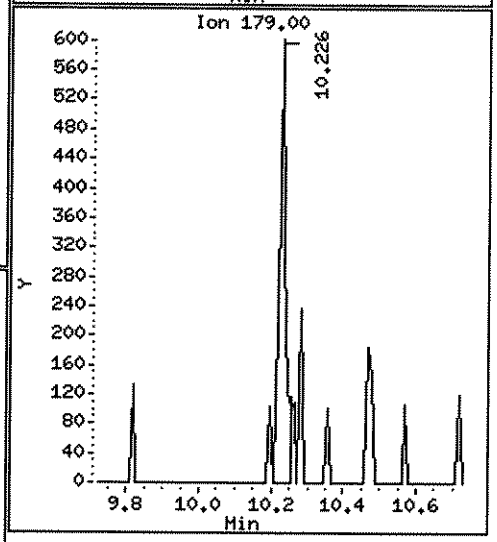












Data File: \\ELABNSH05\TARGET\chem\bna4.i\022412B4E.b\0215019.D

Date : 25-FEB-2012 06:19

Client ID:

Instrument: bna4.i

Sample Info: 1202150-19;1;15;1000;1;ug/Kg;22-FEB-2012

Volume Injected (uL): 1.0

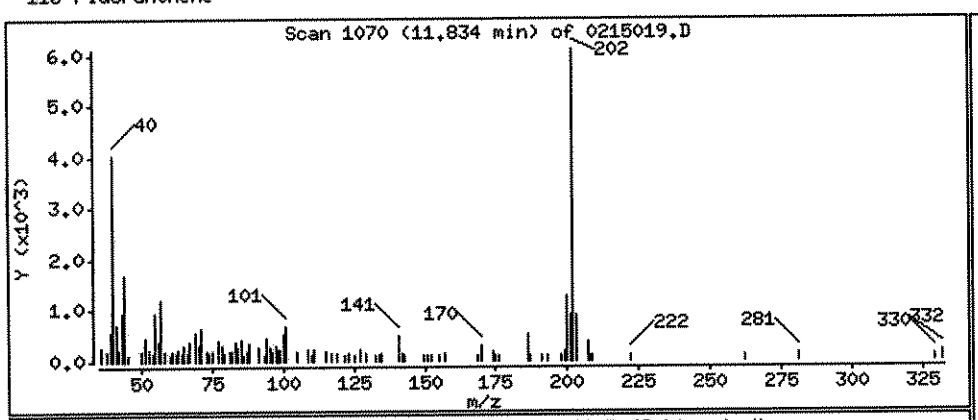
Operator: MEC

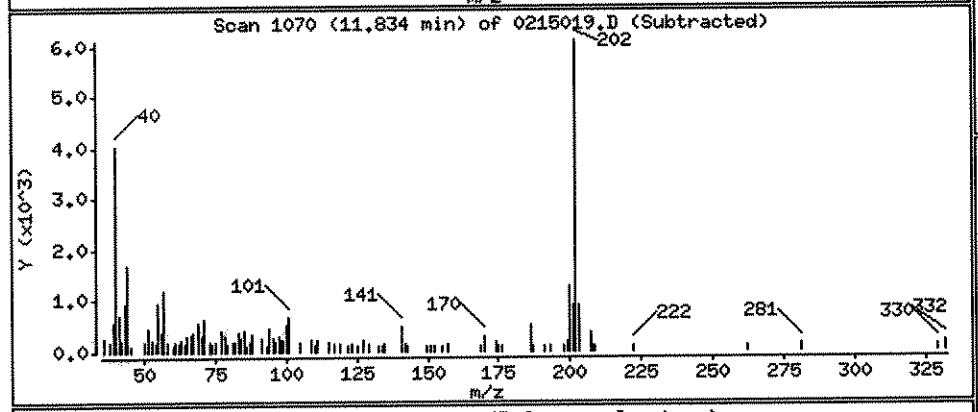
Column phase: fused silica

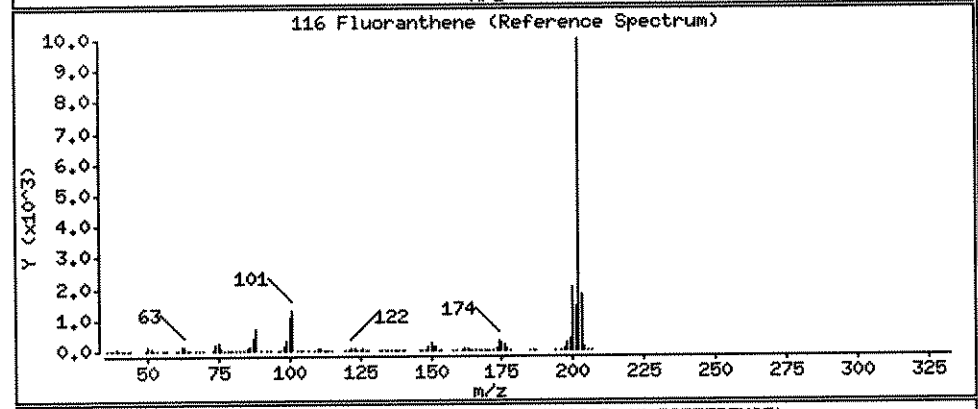
Column diameter: 0.25

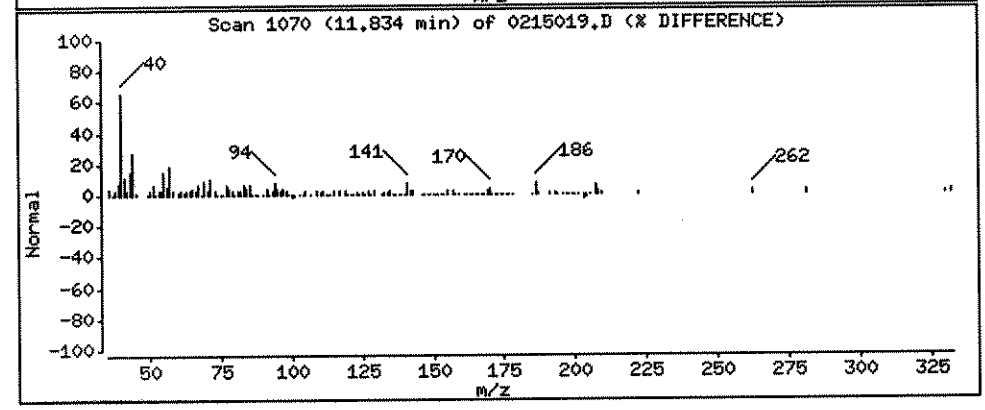
116 Fluoranthene

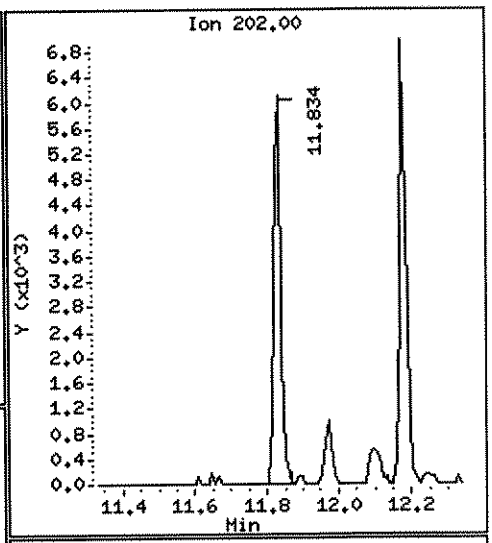
Concentration: 5.266 ug/Kg

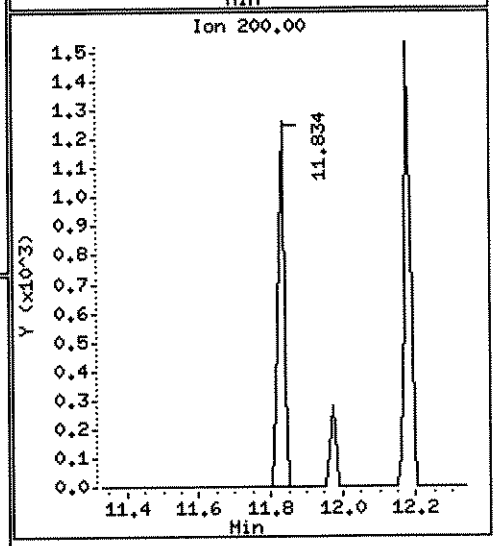












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Date : 25-FEB-2012 06:19

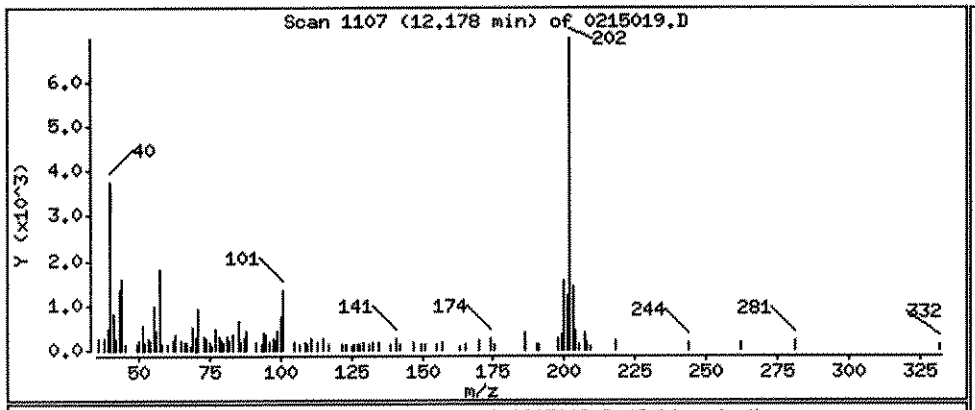
Client ID: Instrument: bna4.i

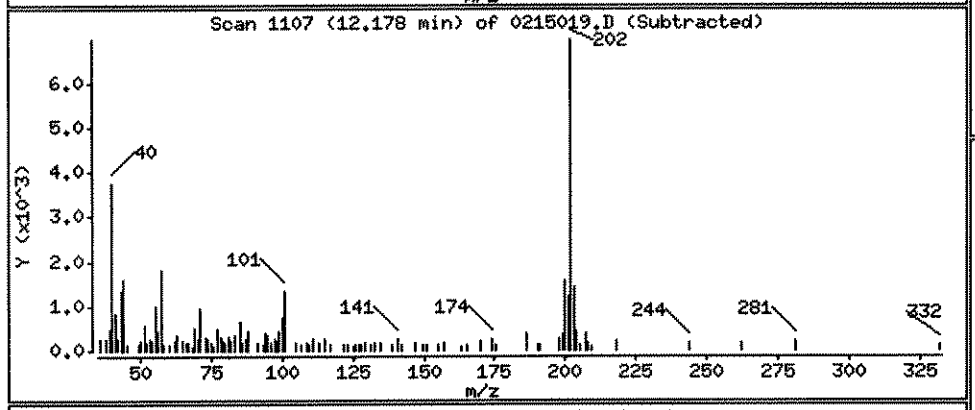
Sample Info: 1202150-19;1;15;1000;1;ug/Kg;22-FEB-2012

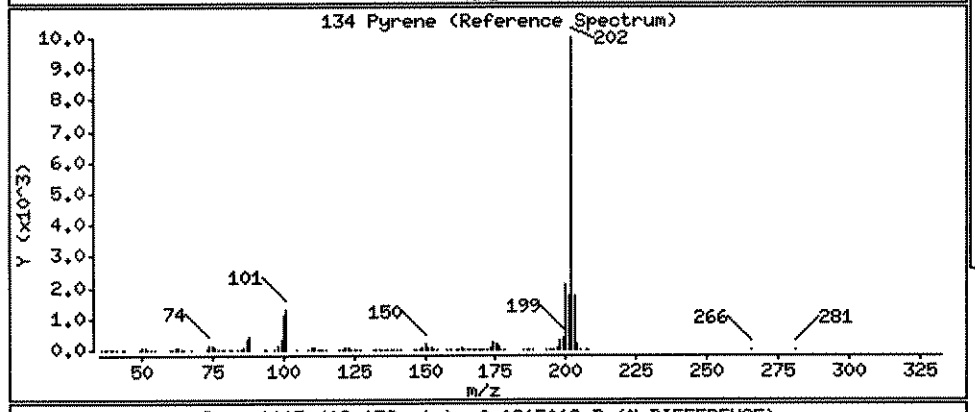
Volume Injected (uL): 1.0 Operator: MEC

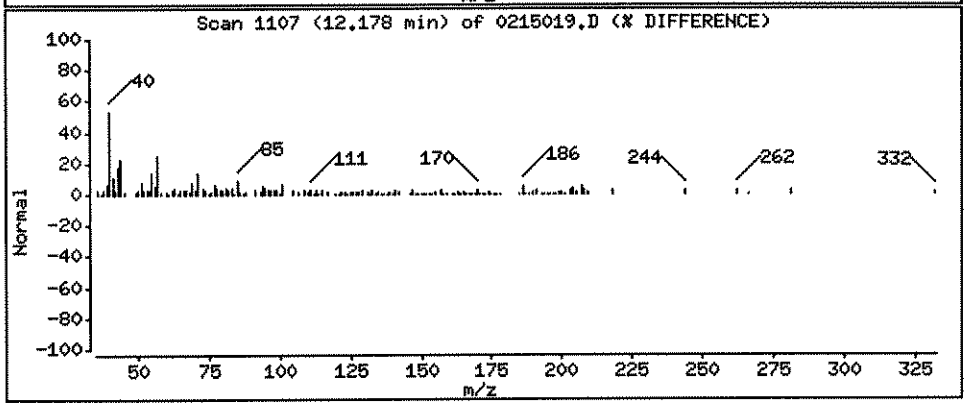
Column phase: fused silica Column diameter: 0.25

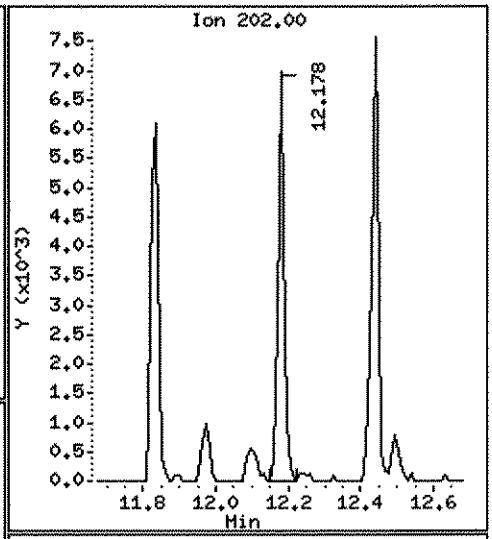
134 Pyrene Concentration: 5.410 ug/Kg

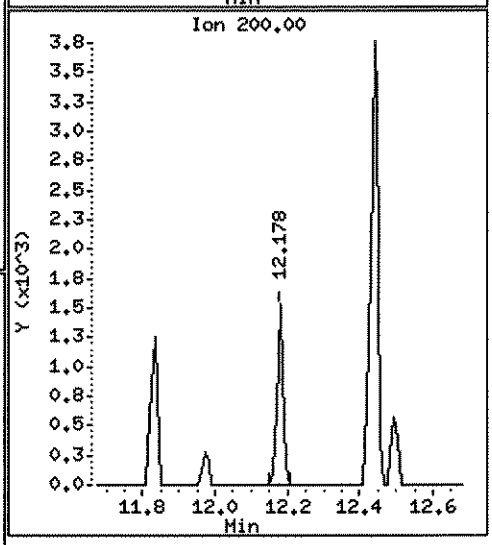






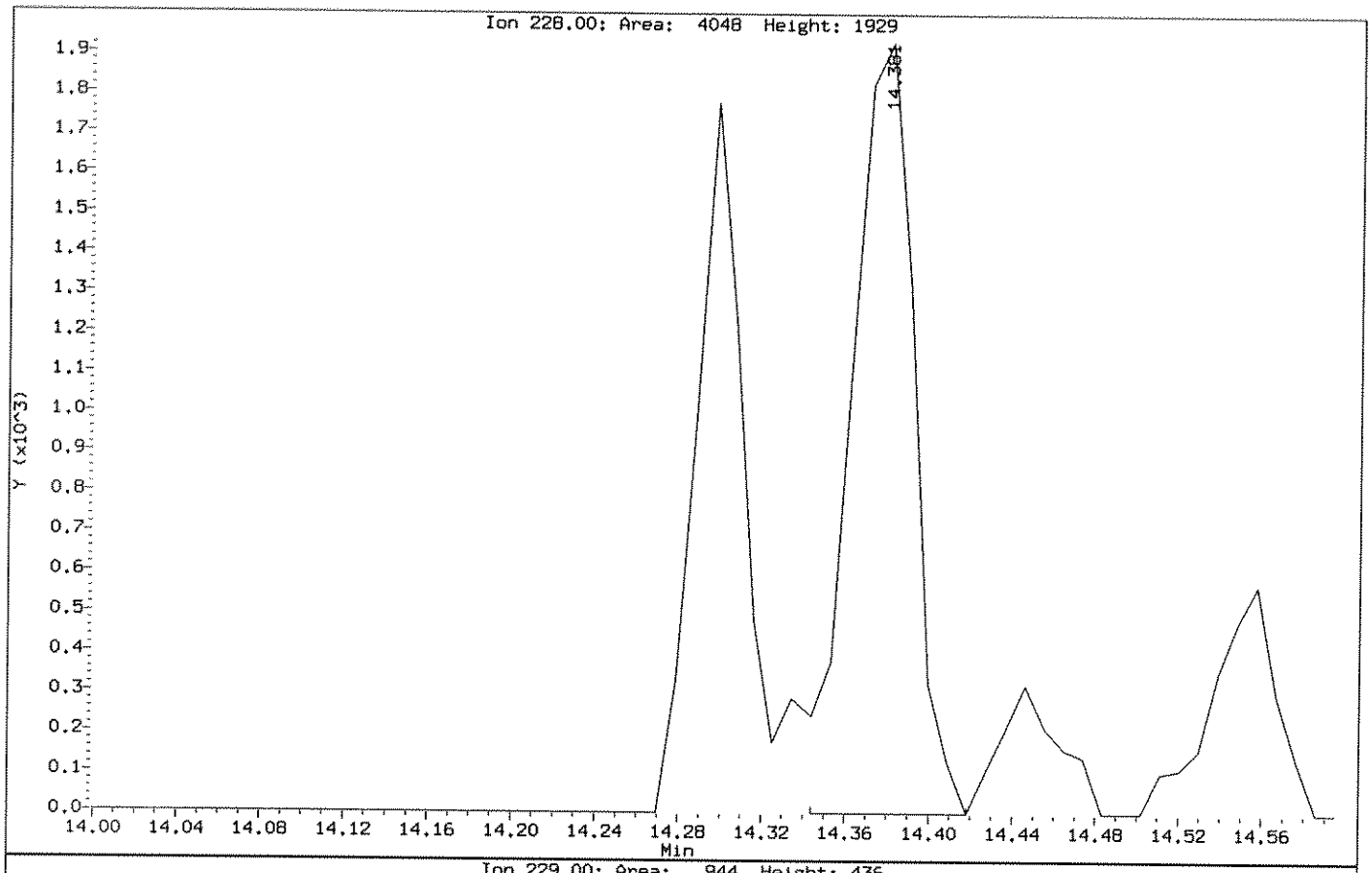


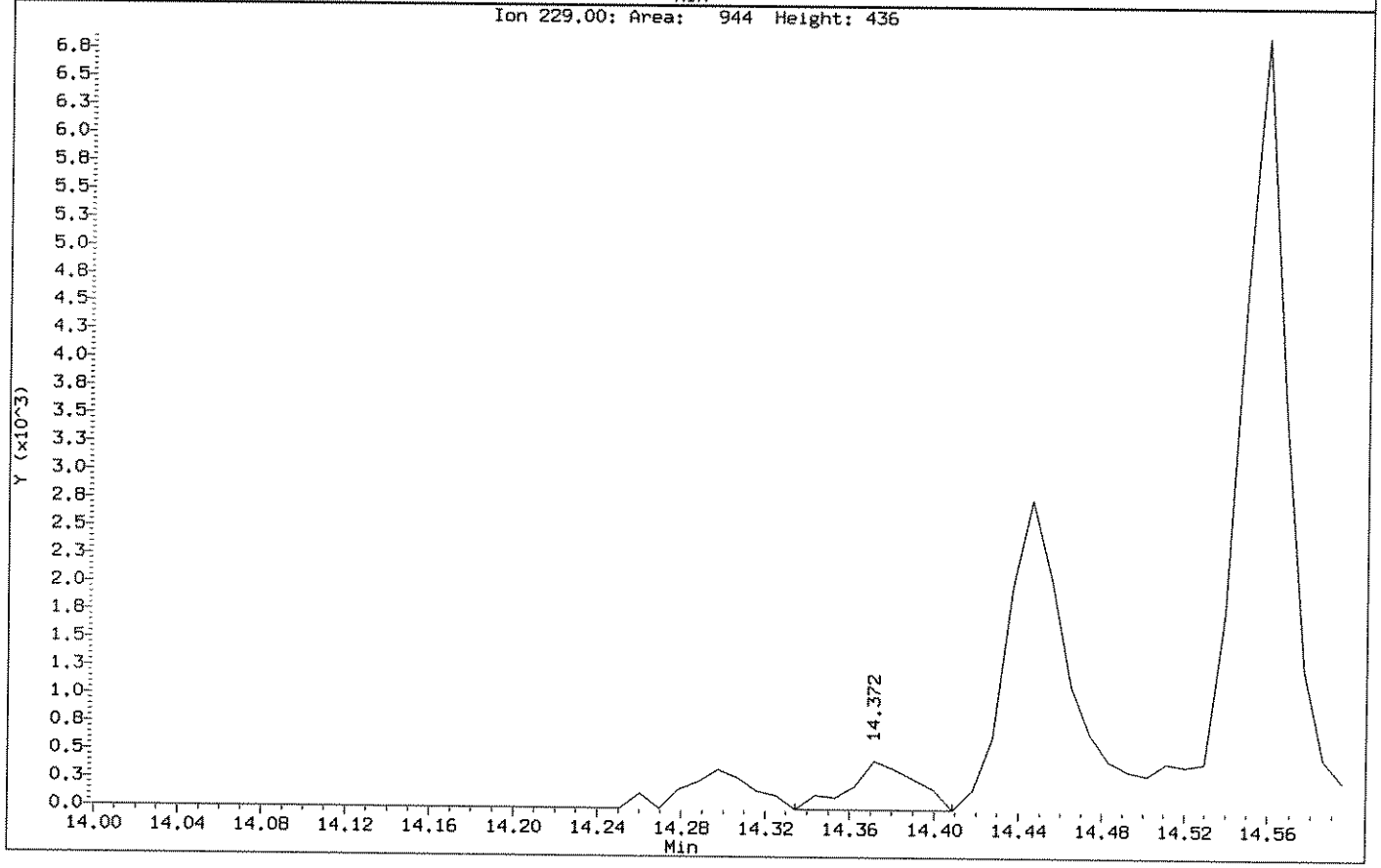




Data File: \\ELABNSHO5\TARGET\chem\bna4.i\022412B4E.b\0215019.D
Injection Date: 25-FEB-2012 06:19
Instrument: bna4.i
Client Sample ID:

Compound: Benzo(a)anthracene
CAS Number: 56-55-3





Data File: \\ELABNSH05\TARGET\chem\bna4.i\022412B4E.b\0215019.D

Date : 25-FEB-2012 06:19

Client ID:

Instrument: bna4.i

Sample Info: 1202150-19;1;15;1000;1;ug/Kg;22-FEB-2012

Volume Injected (uL): 1.0

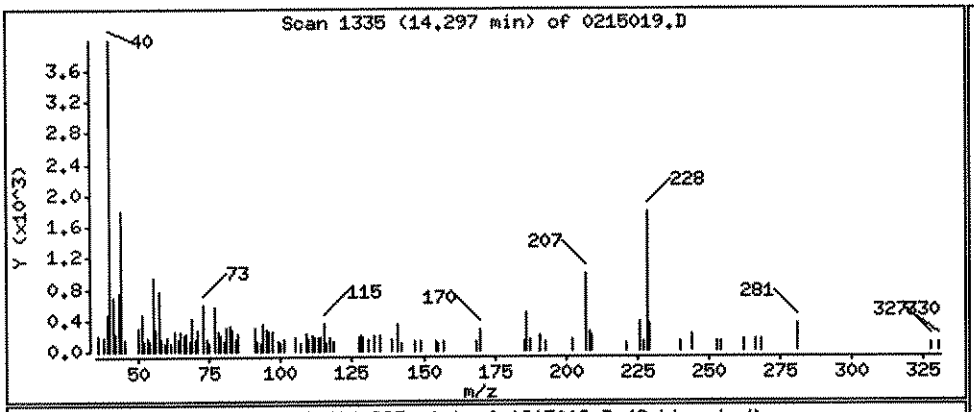
Operator: MEC

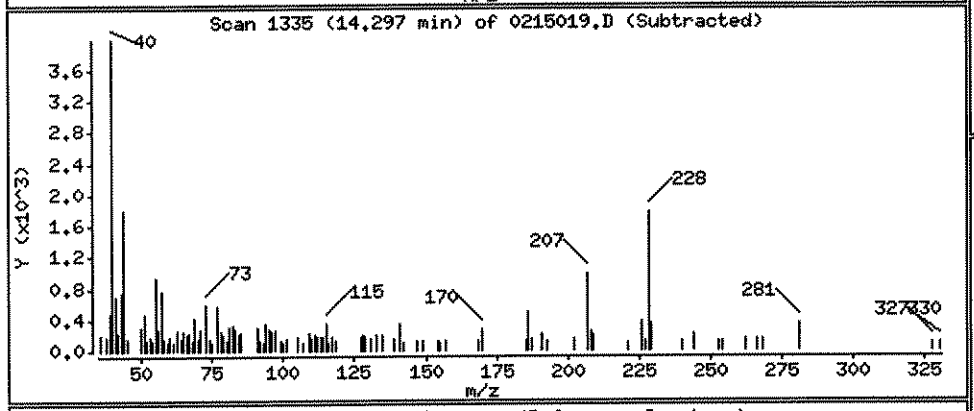
Column phase: fused silica

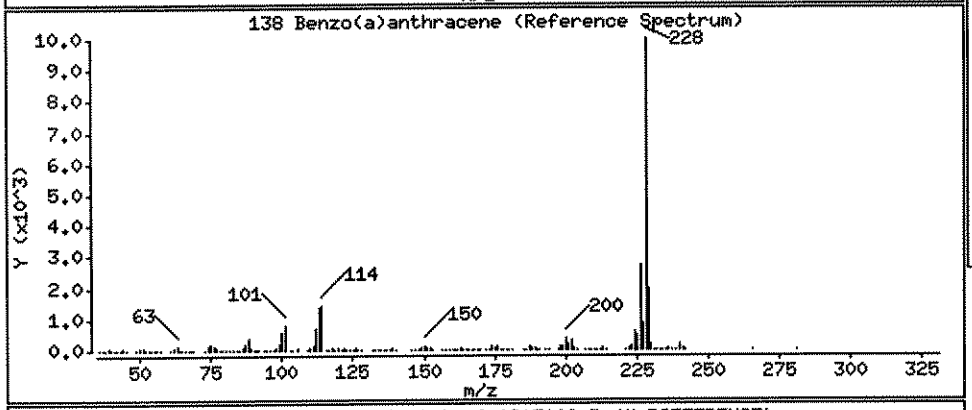
Column diameter: 0.25

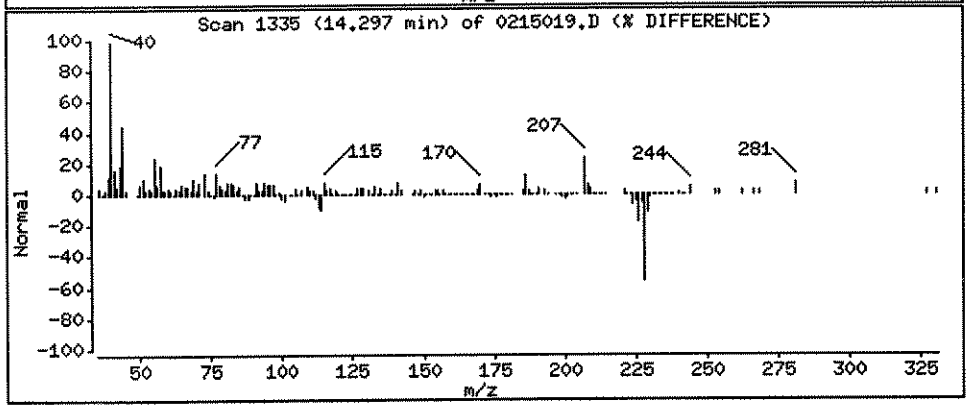
138 Benzo(a)anthracene

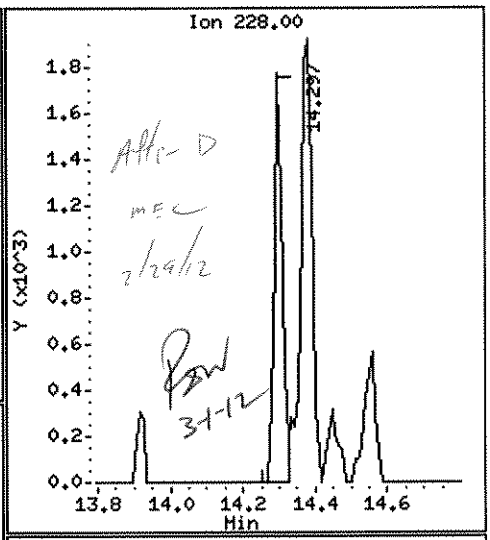
Concentration: 2.738 ug/Kg

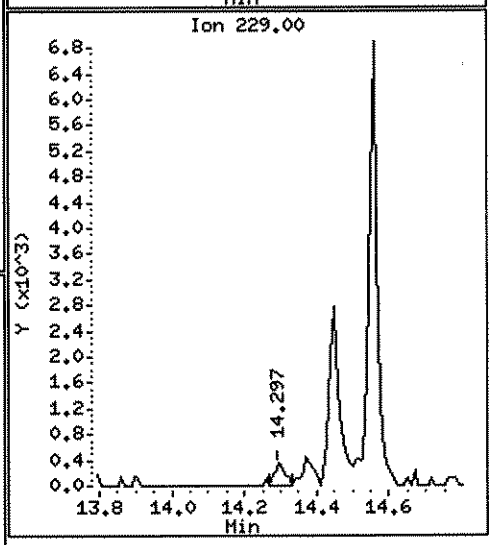












Data File: \\ELABNSHO5\TARGET\chem\bna4.i\022412B4E.b\0215019.D

Date : 25-FEB-2012 06:19

Client ID:

Instrument: bna4.i

Sample Info: 1202150-19;1;15;1000;1;ug/Kg;22-FEB-2012

Volume Injected (uL): 1.0

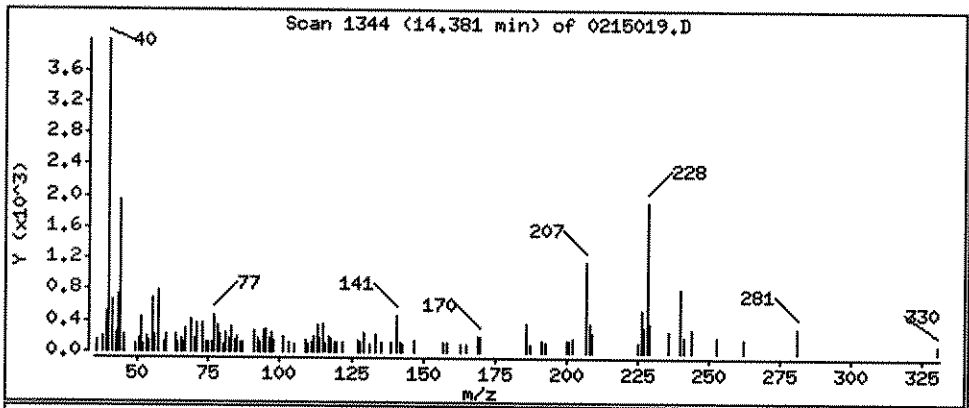
Operator: MEC

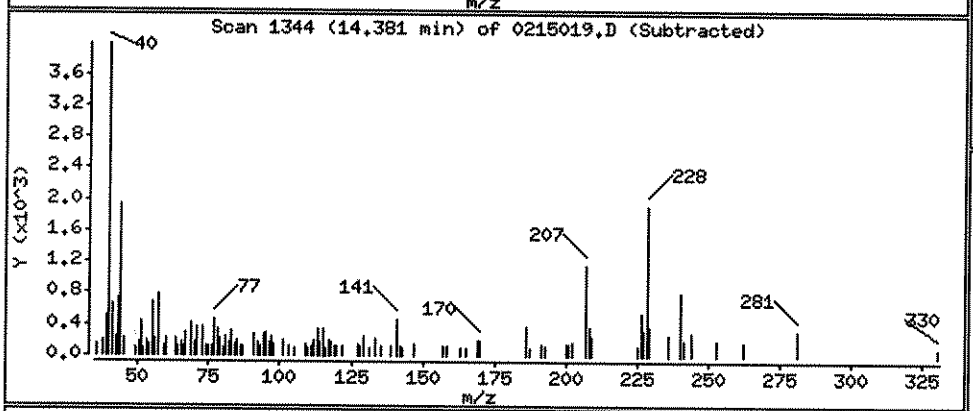
Column phase: fused silica

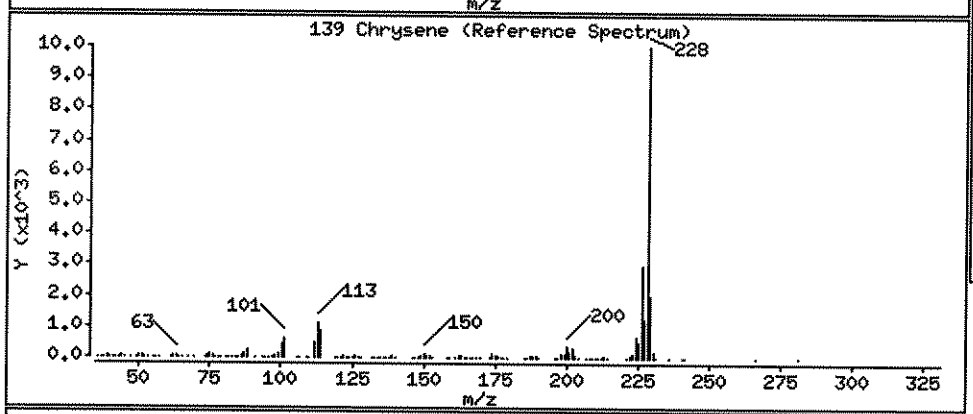
Column diameter: 0.25

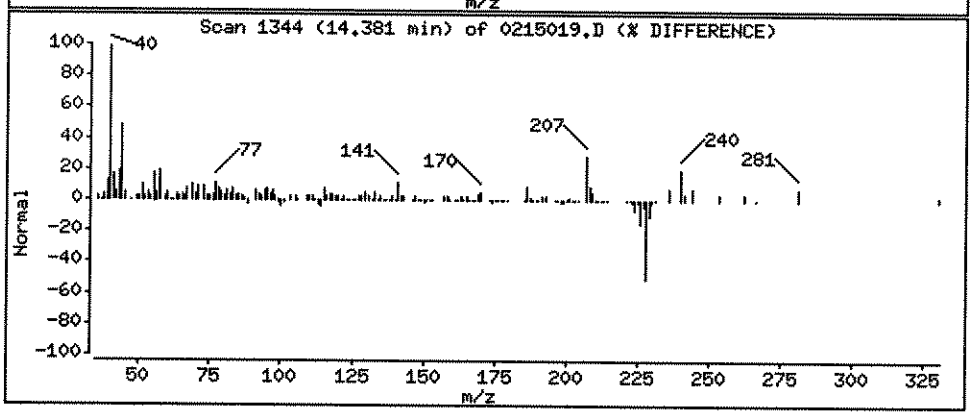
139 Chrysene

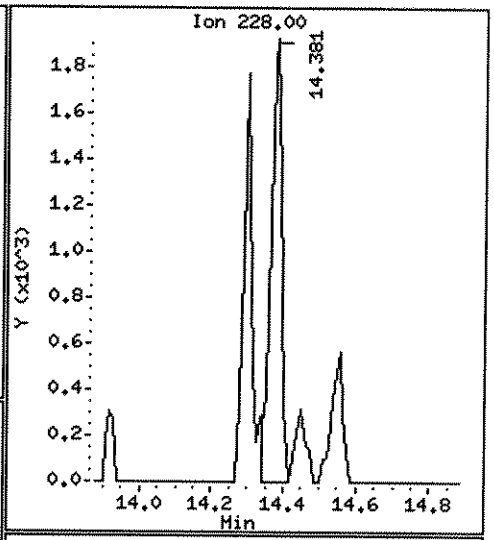
Concentration: 3.983 ug/Kg

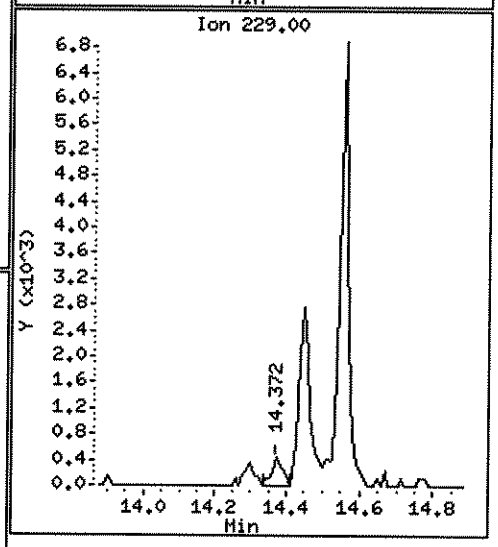












Data File: \\ELABNSH05\TARGET\chem\bna4.i\022412B4E.b\0215020.D
Report Date: 29-Feb-2012 12:14

Laboratory Name

Data file : \\ELABNSH05\TARGET\chem\bna4.i\022412B4E.b\0215020.D
Lab Smp Id: 1202150-20 Client Smp ID: FLC-4-PO7-0204-0221
Inj Date : 25-FEB-2012 06:47 MS Autotune Date: 15-FEB-2012 09:23
Operator : MEC Inst ID: bna4.i
Smp Info : 1202150-20;1;15;1000;1;ug/Kg;22-FEB-2012
Misc Info : ;0;;;;2B22014;pahlow.sub;
Comment :
Method : \\ELABNSH05\TARGET\chem\bna4.i\022412B4E.b\IXBN4LOW.m
Meth Date : 29-Feb-2012 12:10 mcobb Quant Type: ISTD
Cal Date : 20-FEB-2012 16:29 Cal File: SEQ-CAL1.D
Als bottle: 43
Dil Factor: 1.00000
Integrator: HP RTE Compound Sublist: pahlow.sub
Target Version: 4.04
Processing Host: TARGET09_VM

Concentration Formula: Amt * DF * Uf * Vt*Vi/(Amt * Vi * (Solids/100))

Name	Value	Description
DF	1.000	Dilution Factor
Uf	1.000	ng unit correction factor
Vt	1000.000	Volume of final extract (uL)(1000 low, 2
Amt	15.000	Mass of initial extraction
Vi	1.000	Volume injected (uL)
Solids	100.000	Percent Solids

3-1-12

Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS ON-COLUMN (ng/ul)	FINAL (ug/Kg)
$ 74 2-Fluorobiphenyl	172	7.557	7.557	(0.741)	3024139	34.5866	2306
* 102 Phenanthrene-d10	188	10.197	10.197	(1.000)	108760	1.00000	
116 Fluoranthene	202	11.834	11.833	(1.160)	2418	0.02191	1.461(a)
134 Pyrene	202	12.177	12.177	(1.194)	2891	0.02543	1.695(a)
* 154 Perylene-d12	264	17.132	17.123	(1.000)	42557	1.00000	
$ 135 Terphenyl-d14	244	12.438	12.428	(1.220)	3519509	46.8244	3122

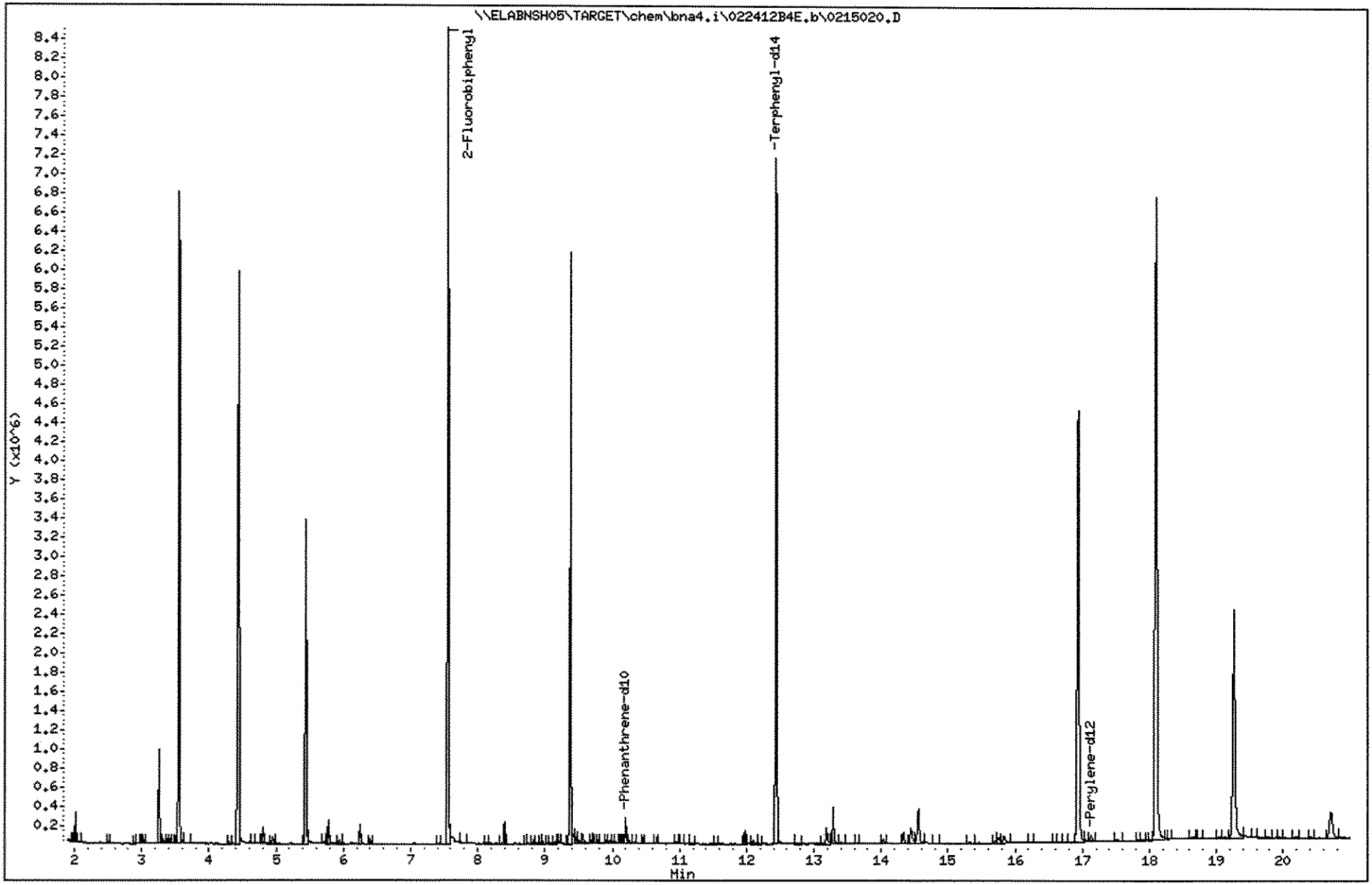
QC Flag Legend

a - Target compound detected but, quantitated amount
Below Limit Of Quantitation(BLOQ).

MEC
2/29/12

Data File: \\ELABNSH05\TARGET\chem\bna4.i\022412B4E.b\0215020.D
Date : 25-FEB-2012 06:47
Client ID: FLC-4-P07-0204-0221
Sample Info: 1202150-20;1;15;1000;1;ug/Kg;22-FEB-2012
Volume Injected (uL): 1.0
Column phase: fused silica

Instrument: bna4.i
Operator: MEC
Column diameter: 0.25



1202150

Data File: \\ELABNSH05\TARGET\chem\bna4.i\022412B4E.b\0215020.D

Date : 25-FEB-2012 06:47

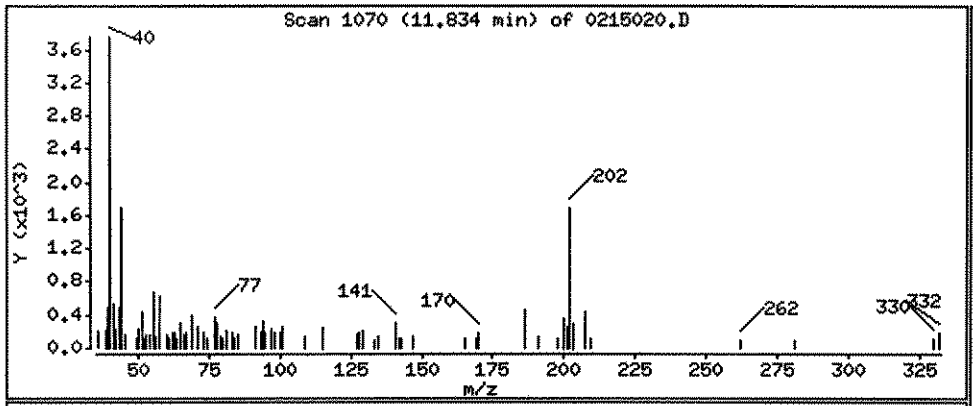
Client ID: FLC-4-PO7-0204-0221 Instrument: bna4.i

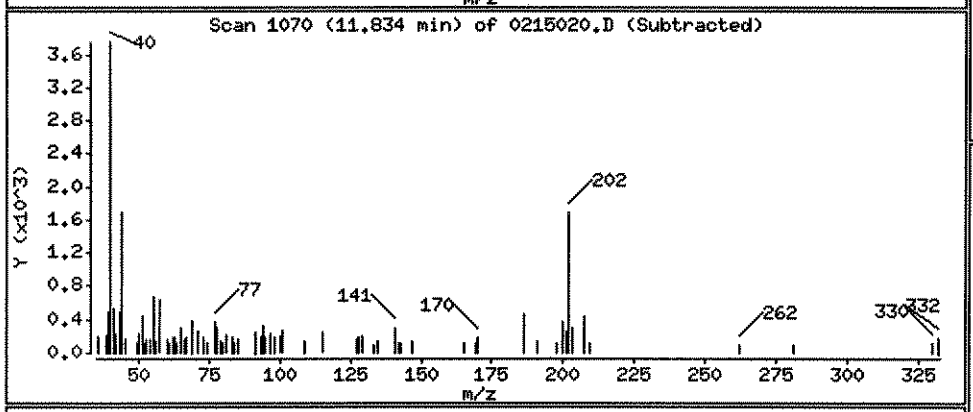
Sample Info: 1202150-20;1;15;1000;1;ug/Kg;22-FEB-2012

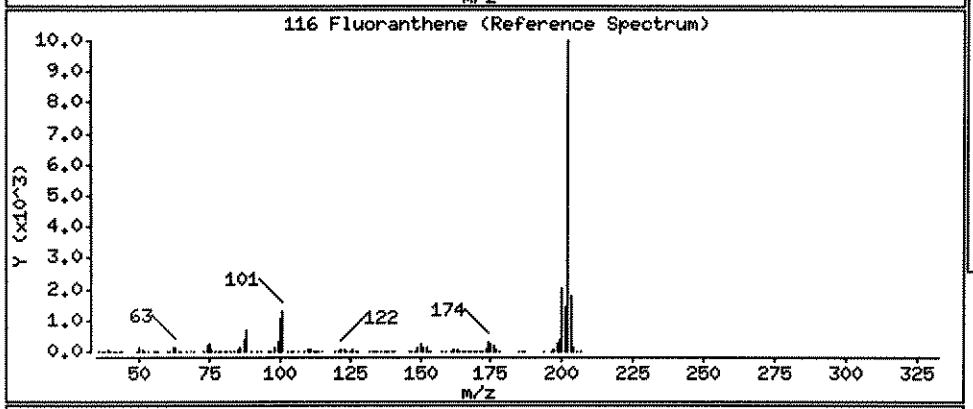
Volume Injected (uL): 1.0 Operator: MEC

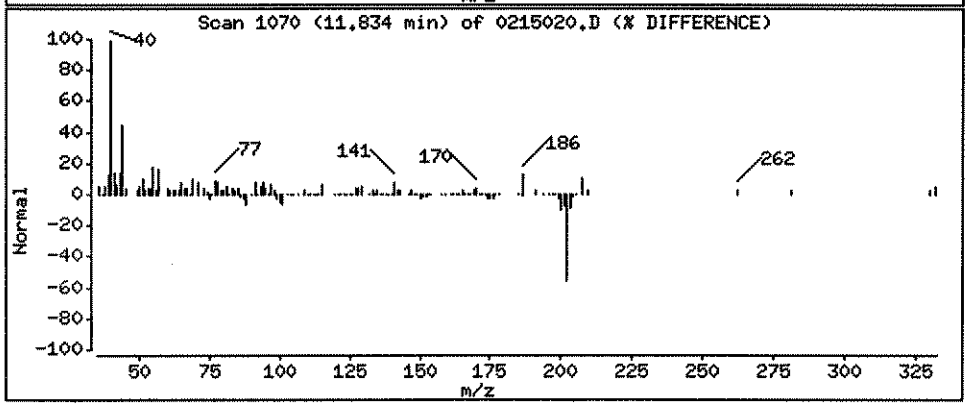
Column phase: fused silica Column diameter: 0.25

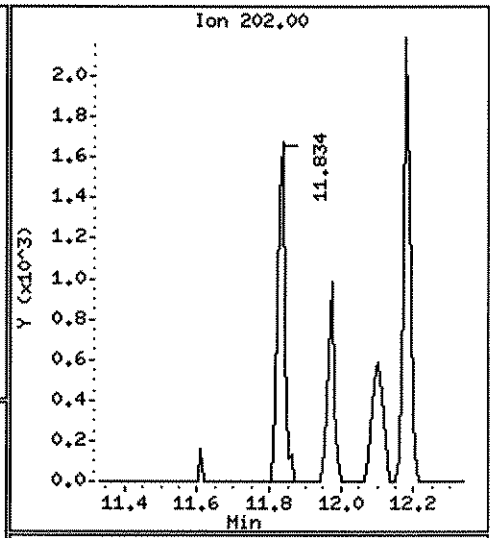
116 Fluoranthene Concentration: 1.461 ug/Kg

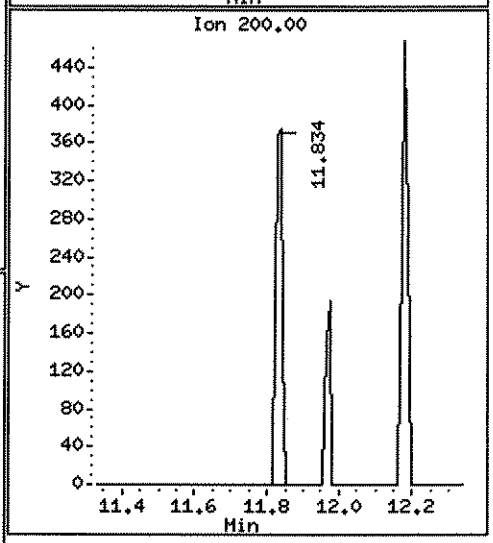












Data File: \\ELABNSH05\TARGET\chem\bna4.i\022412B4E.b\0215020.D

Date : 25-FEB-2012 06:47

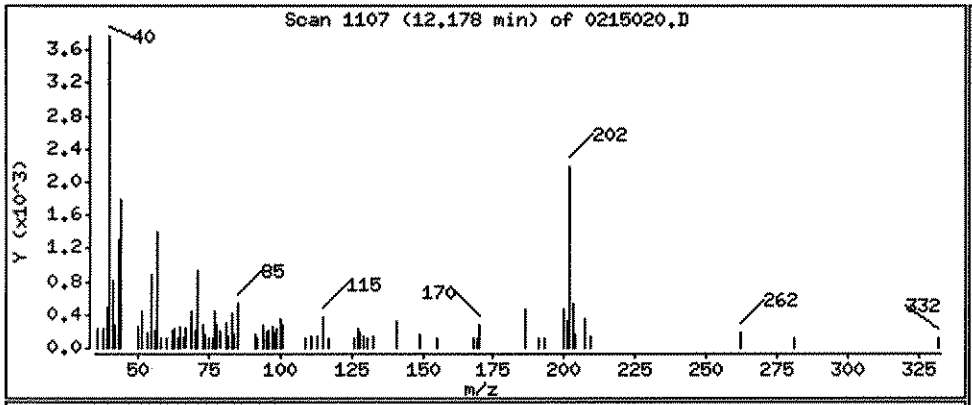
Client ID: FLC-4-P07-0204-0221 Instrument: bna4.i

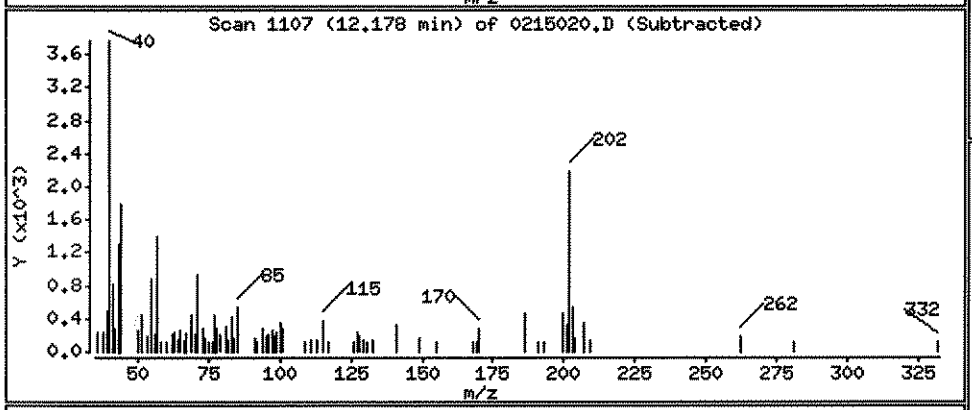
Sample Info: 1202150-20;1;15;1000;1;ug/Kg;22-FEB-2012

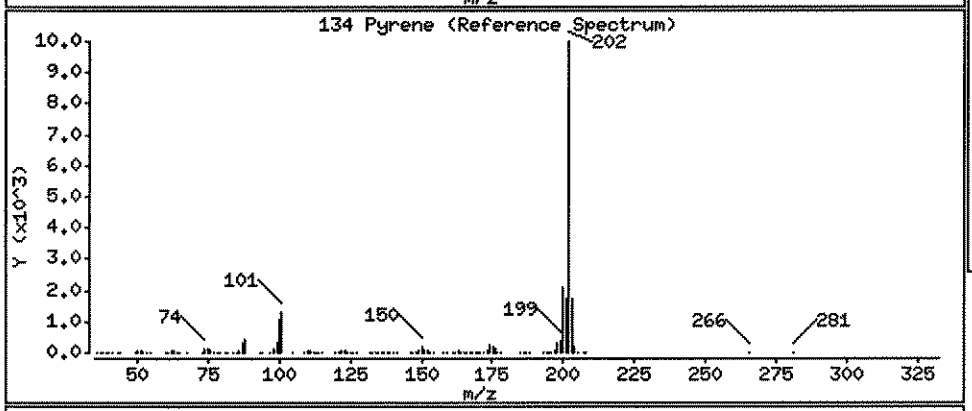
Volume Injected (uL): 1.0 Operator: MEC

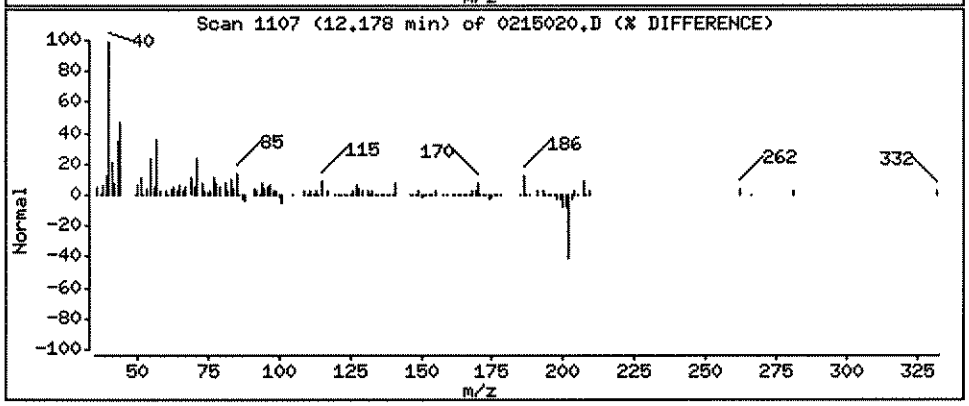
Column phase: fused silica Column diameter: 0.25

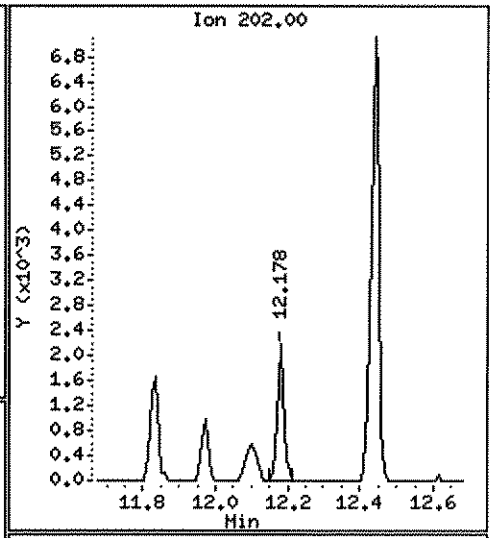
134 Pyrene Concentration: 1.695 ug/Kg

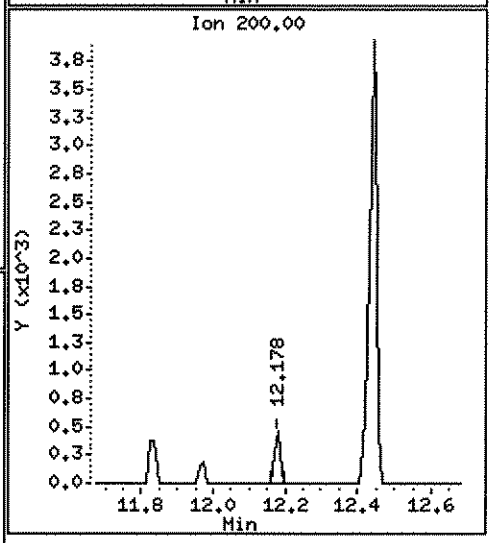












Data File: \\ELABNSH05\TARGET\chem\bna4.i\022412B4E.b\0215021.D
Report Date: 29-Feb-2012 12:14

Laboratory Name

Data file : \\ELABNSH05\TARGET\chem\bna4.i\022412B4E.b\0215021.D
Lab Smp Id: 1202150-21
Inj Date : 25-FEB-2012 07:16 MS Autotune Date: 15-FEB-2012 09:23
Operator : MEC Inst ID: bna4.i
Smp Info : 1202150-21;1;15;1000;1;ug/Kg;22-FEB-2012
Misc Info : ;0;;;;2B22014;pahlow.sub;
Comment :
Method : \\ELABNSH05\TARGET\chem\bna4.i\022412B4E.b\IXBN4LOW.m
Meth Date : 29-Feb-2012 12:10 mcobb Quant Type: ISTD
Cal Date : 20-FEB-2012 16:29 Cal File: SEQ-CAL1.D
Als bottle: 44
Dil Factor: 1.00000
Integrator: HP RTE Compound Sublist: pahlow.sub
Target Version: 4.04
Processing Host: TARGET09_VM

Concentration Formula: Amt * DF * Uf * Vt*Vi/(Amt * Vi * (Solids/100))

Name	Value	Description
DF	1.000	Dilution Factor
Uf	1.000	ng unit correction factor
Vt	1000.000	Volume of final extract (uL)(1000 low, 2
Amt	15.000	Mass of initial extraction
Vi	1.000	Volume injected (uL)
Solids	100.000	Percent Solids

3-1-12

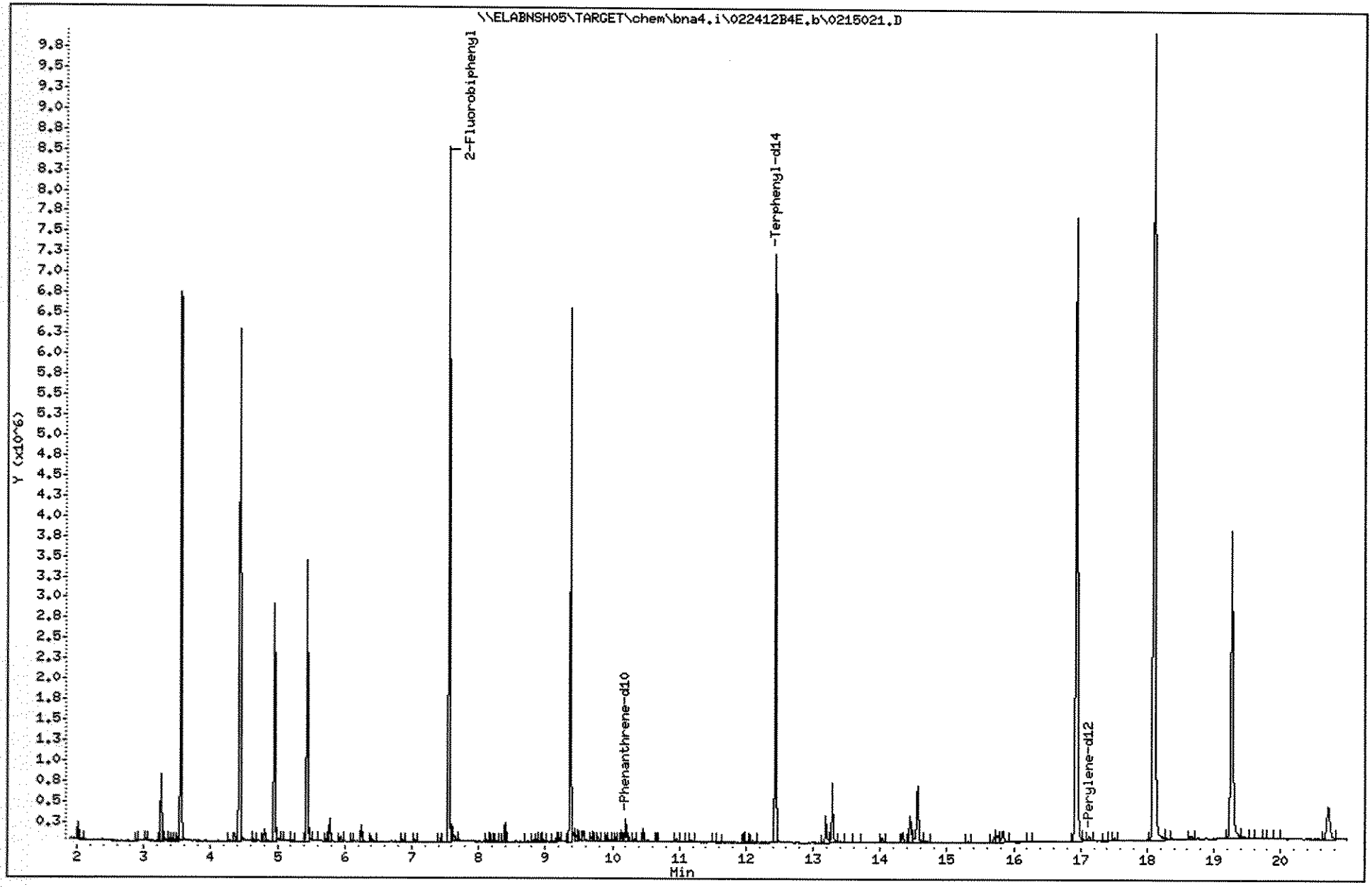
Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS ON-COLUMN (ng/ul)	FINAL (ug/Kg)
$ 74 2-Fluorobiphenyl	172	7.557	7.557	(0.741)	3019271	34.2272	2282
* 102 Phenanthrene-d10	188	10.197	10.197	(1.000)	109725	1.00000	
* 154 Perylene-d12	264	17.132	17.123	(1.000)	39177	1.00000	
$ 135 Terphenyl-d14	244	12.438	12.428	(1.220)	3423081	45.1410	3009

MEC
2/29/12

Data File: \\ELABNSH05\TARGET\chem\bna4.i\022412B4E.b\0215021.D
Date : 25-FEB-2012 07:16
Client ID:
Sample Info: 1202150-21;1;15;1000;1;ug/Kg;22-FEB-2012
Volume Injected (uL): 1.0
Column phase: fused silica

Instrument: bna4.i

Operator: MEC
Column diameter: 0.25



358

1202150

Sequence Name: C:\msdchem\1\sequence\022812B4.S
Comment: EPA8270
Operator: MEC
Data Path: D:\DATA\022812B4\
Instrument Control Pre-Seq Cmd:
Data Analysis Pre-Seq Cmd:

Instrument Control Post-Seq Cmd:
Data Analysis Post-Seq Cmd:

1101

MEC
3/1/12

Method Sections To Run
(X) Full Method
( ) Reprocessing Only

On A Barcode Mismatch
(X) Inject Anyway
( ) Don't Inject

Line			Sample Name/Misc Info
1)	Sample	1	SEQ-TUN1 DFBN4LOW DF0228B1;;;;;;12B0448 17:00, 2/28
2)	Sample	2	SEQ-CCV1 IXBN4LOW SEQ-CCV1;;;;;;12B0746
3)	Spike	3	B23003L1 IXBN4LOW 2B23003-BS2;1;1000;1000;1;ug/
4)	Duplicate	4	B23003L2 IXBN4LOW 2B23003-BSD2;1;1000;1000;1;ug
5)	Blank	5	B23003B1 IXBN4LOW 2B23003-BLK2;1;1000;1000;1;ug
6)	Sample	6	0214502 IXBN4LOW 1202145-02;1;1000;1000;1;ug/L - RR @ 10x
7)	Sample	7	0214503 IXBN4LOW 1202145-03;1;1000;1000;1;ug/L
8)	Sample	8	0214504 IXBN4LOW 1202145-04;1;1000;1000;1;ug/L
9)	Sample	9	0215005 IXBN4LOW 1202150-05;1;1000;1000;1;ug/L
10)	Sample	10	0215014 IXBN4LOW 1202150-14;1;1000;1000;1;ug/L
11)	Sample	11	0215501 IXBN4LOW 1202155-01;1;1000;1000;1;ug/L
12)	Sample	12	0215502 IXBN4LOW 1202155-02;1;1000;1000;1;ug/L
13)	Sample	13	0215503 IXBN4LOW 1202155-03;1;1000;1000;1;ug/L
14)	Sample	14	0215503M IXBN4LOW 2B23003-MS3;1;1000;1000;1;ug/ MS1
15)	Duplicate	15	0215503S IXBN4LOW 2B23003-MSD3;1;1000;1000;1;ug MSD1
16)	Spike	16	B24004L1 IXBN4LOW 2B24004-BS2;1;15;1000;1;ug/Kg
17)	Blank	17	B24004B1 IXBN4LOW 2B24004-BLK2;1;15;1000;1;ug/K
18)	Sample	18	0215022 IXBN4LOW 1202150-22;1;15;1000;1;ug/Kg;
19)	Sample	19	0215022M IXBN4LOW 2B24004-MS3;1;15;1000;1;ug/Kg MS1
20)	Duplicate	20	0215022S IXBN4LOW 2B24004-MSD3;1;15;1000;1;ug/K MSD1
21)	Sample	21	0215023 IXBN4LOW 1202150-23;1;15;1000;1;ug/Kg;
22)	Sample	22	0215024 IXBN4LOW 1202150-24;1;15;1000;1;ug/Kg;
23)	Sample	23	0215025 IXBN4LOW 1202150-25;1;15;1000;1;ug/Kg;
24)	Sample	24	0215026 IXBN4LOW 1202150-26;1;15;1000;1;ug/Kg; 4:19, 2/29
25)	Sample	1	SEQ-TUN2 DFBN4LOW DF0228B1;;;;;;12B0448 4:52, 2/29
26)	Sample	2	SEQ-CCV2 IXBN4LOW SEQ-CCV1;;;;;;12B0746
27)	Spike	25	B27002L1 IXBN4LOW 2B27002-BS2;1;1000;1000;1;ug/
28)	Blank	26	B27002B1 IXBN4LOW 2B27002-BLK2;1;1000;1000;1;ug
29)	Sample	27	0215402 IXBN4LOW 1202154-02;1;1000;1000;1;ug/L
30)	Sample	28	0215403 IXBN4LOW 1202154-03;1;1000;1000;1;ug/L
31)	Sample	29	0215404 IXBN4LOW 1202154-04;1;1000;1000;1;ug/L
32)	Sample	30	0215404M IXBN4LOW 2B27002-MS3;1;1000;1000;1;ug/
33)	Duplicate	31	0215404S IXBN4LOW 2B27002-MSD3;1;1000;1000;1;ug
34)	Sample	32	0216202 IXBN4LOW 1202162-02;1;1000;1000;1;ug/L
35)	Sample	33	0216203 IXBN4LOW 1202162-03;1;1000;1000;1;ug/L
36)	Sample	34	0216204 IXBN4LOW 1202162-04;1;1000;1000;1;ug/L 10:02, 2/29

T1

Last Modified: Wed Feb 29 12:37:46 2012

Data File: \\ELABNSH05\TARGET\chem\bna4.i\022812B4.b\SEQ-TUN1.D

Date : 28-FEB-2012 17:00

Client ID: 50ppm DFTPP

Instrument: bna4.i

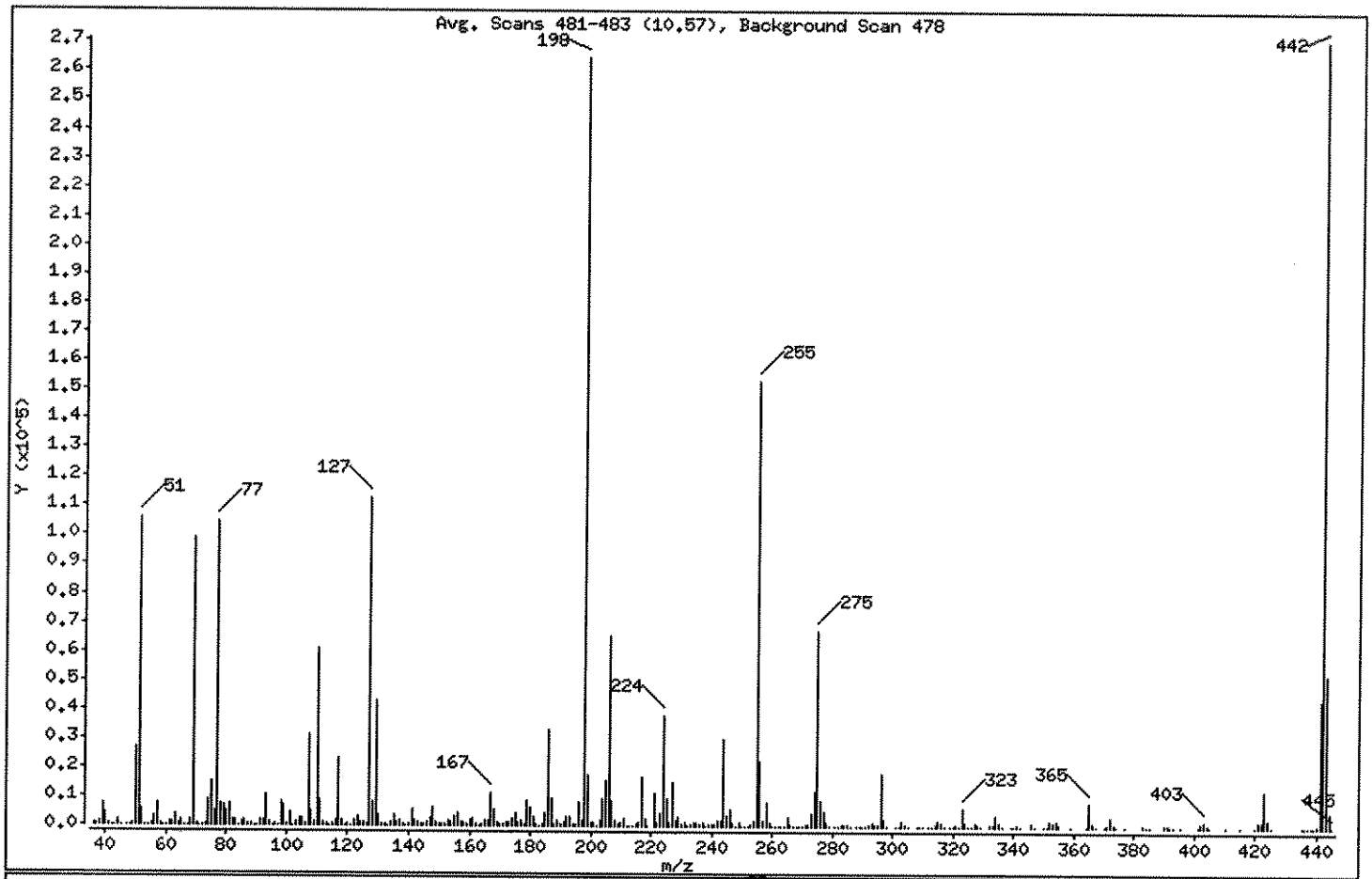
Sample Info: DF0228B1;;;;;;12B0448

Operator: MEC

Column phase: DB5-MS

Column diameter: 0.25

1 dftpp



m/e	ION ABUNDANCE CRITERIA	% RELATIVE ABUNDANCE
198	Base Peak, 100% relative abundance	100.00
51	30.00 - 60.00% of mass 198	39.89
68	Less than 2.00% of mass 69	0.60 (1.60)
69	Mass 69 relative abundance	37.51
70	Less than 2.00% of mass 69	0.17 (0.45)
127	40.00 - 60.00% of mass 198	42.49
197	Less than 1.00% of mass 198	0.79
199	5.00 - 9.00% of mass 198	6.70
275	10.00 - 30.00% of mass 198	25.41
365	Greater than 1.00% of mass 198	3.12
441	Present, but less than mass 443	16.38
442	Greater than 40.00% of mass 198	102.35
443	17.00 - 23.00% of mass 442	19.77 (19.32)

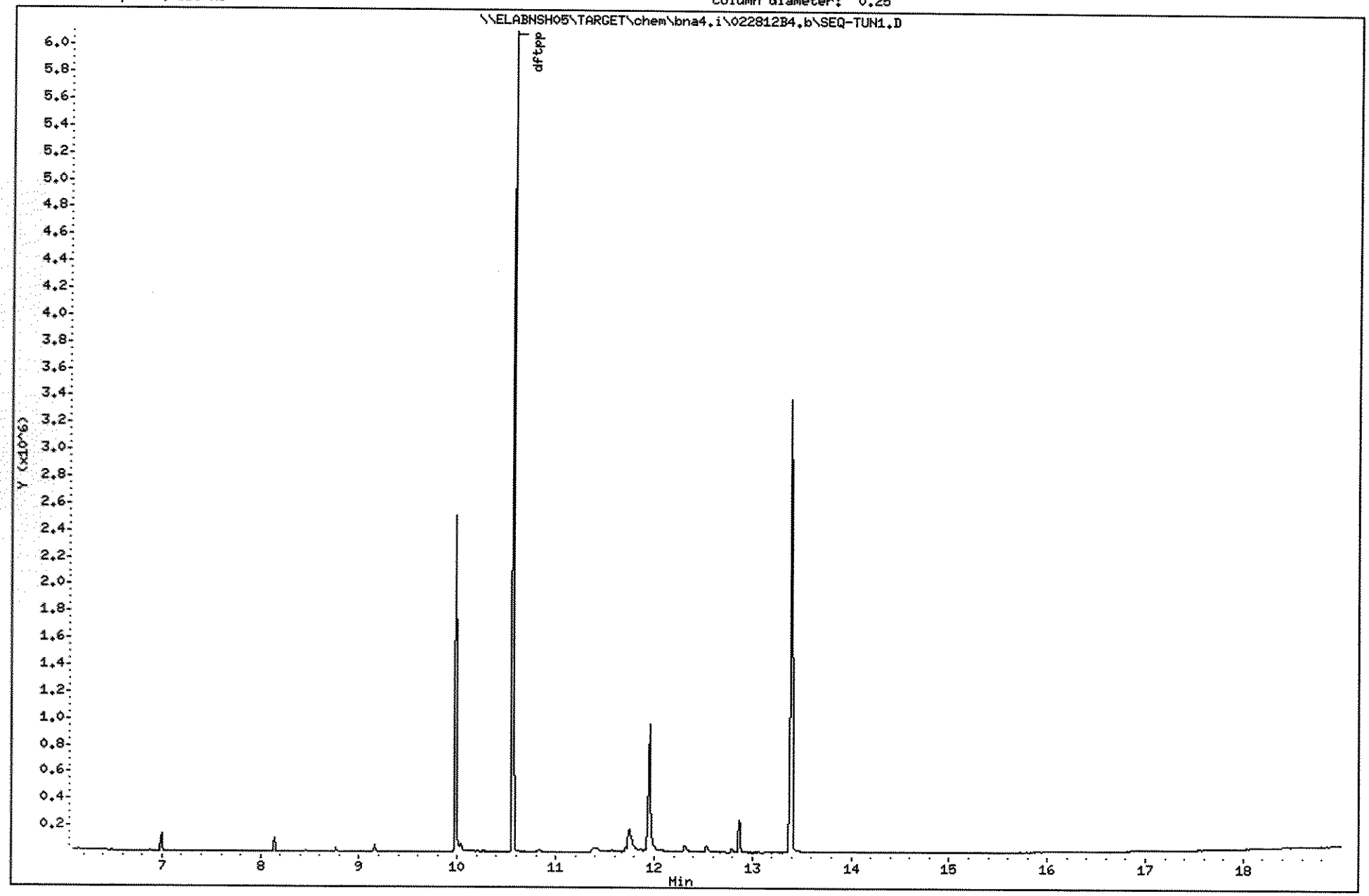
MEC 3/1/12

Data File: \\ELABNSH05\TARGET\chem\bna4.i\022812B4.b\SEQ-TUN1.D
Date : 28-FEB-2012 17:00
Client ID: 50ppm DFTPP
Sample Info: DF0228B1;;;;;;12B0448

Instrument: bna4.i

Operator: MEC
Column diameter: 0.25

Column phase: DB5-MS



Data File: \\ELABNSH05\TARGET\chem\bna4.i\022812B4.b\SEQ-TUN1.D

Date : 28-FEB-2012 17:00

Client ID: 50ppm DFTPP

Instrument: bna4.i

Sample Info: DF0228B1;;;;;;12B0448

Operator: MEC

Column phase: DB5-MS

Column diameter: 0.25

Data File: SEQ-TUN1.D

Spectrum: Avg. Scans 481-483 (10.57), Background Scan 478

Location of Maximum: 442.00

Number of points: 344

m/z	Y	m/z	Y	m/z	Y	m/z	Y
36.00	446	124.00	1433	211.00	2505	303.00	2014
37.00	455	125.00	1361	212.00	27	304.00	559
38.00	1486	126.00	786	213.00	146	305.00	40
39.00	7777	127.00	112440	214.00	56	308.00	300
40.00	4379	128.00	8330	215.00	718	309.00	175
41.00	437	129.00	43144	216.00	1393	310.00	282
42.00	22	130.00	3701	217.00	16976	312.00	41
43.00	204	131.00	773	218.00	2226	313.00	169
44.00	2038	132.00	378	219.00	221	314.00	827
45.00	291	133.00	206	221.00	11390	315.00	2064
47.00	54	134.00	1154	222.00	1482	316.00	1172
48.00	62	135.00	3650	223.00	4122	317.00	185
49.00	830	136.00	1335	224.00	37936	319.00	20
50.00	26640	137.00	1609	225.00	9382	320.00	86
51.00	105552	138.00	332	226.00	982	321.00	616
52.00	5342	139.00	219	227.00	15003	322.00	285
53.00	303	140.00	488	228.00	2051	323.00	6018
54.00	25	141.00	5493	229.00	3088	324.00	1164
55.00	676	142.00	1929	230.00	428	325.00	131
56.00	3302	143.00	1198	231.00	1280	326.00	92
57.00	7451	144.00	320	232.00	211	327.00	1092
58.00	315	145.00	319	233.00	320	328.00	580
59.00	108	146.00	964	234.00	937	329.00	95
60.00	103	147.00	2760	235.00	1072	332.00	540
61.00	1288	148.00	6372	236.00	699	333.00	624
62.00	1355	149.00	1300	237.00	1102	334.00	3883
63.00	3942	150.00	365	238.00	166	335.00	940
64.00	639	151.00	789	239.00	572	336.00	119
65.00	2090	152.00	460	240.00	478	339.00	105
66.00	255	153.00	1704	241.00	789	340.00	79
67.00	144	154.00	1366	242.00	2044	341.00	703
68.00	1584	155.00	3093	243.00	2089	342.00	192
69.00	99264	156.00	4663	244.00	29832	346.00	1291
70.00	442	157.00	1001	245.00	4036	347.00	224
71.00	101	158.00	998	246.00	5442	350.00	29

Data File: \\ELABNSH05\TARGET\chem\bna4.i\022812B4.b\SEQ-TUN1.D

Date : 28-FEB-2012 17:00

Client ID: 50ppm DFTPP

Instrument: bna4.i

Sample Info: DF0228B1;;;;;;12B0448

Operator: MEC

Column phase: DB5-MS

Column diameter: 0.25

Data File: SEQ-TUN1.D

Spectrum: Avg. Scans 481-483 (10.57), Background Scan 478

Location of Maximum: 442.00

Number of points: 344

m/z	Y	m/z	Y	m/z	Y	m/z	Y
72.00	43	159.00	777	247.00	1095	351.00	73
73.00	804	160.00	1788	248.00	261	352.00	1857
74.00	8874	161.00	2410	249.00	1102	353.00	1242
75.00	14678	162.00	772	250.00	218	354.00	1956
76.00	4820	163.00	173	251.00	256	355.00	350
77.00	104352	164.00	348	252.00	278	359.00	154
78.00	7207	165.00	2179	253.00	771	364.00	128
79.00	6552	166.00	1665	254.00	1691	365.00	8267
80.00	4972	167.00	11057	255.00	152896	366.00	1148
81.00	7172	168.00	5556	256.00	22352	367.00	42
82.00	1803	169.00	1041	257.00	1732	370.00	222
83.00	1677	170.00	644	258.00	8237	371.00	574
84.00	308	171.00	484	259.00	1329	372.00	3235
85.00	1287	172.00	970	260.00	245	373.00	827
86.00	2070	173.00	1239	261.00	231	374.00	139
87.00	876	174.00	2237	262.00	307	377.00	46
88.00	347	175.00	4542	263.00	74	383.00	876
89.00	134	176.00	1324	264.00	254	384.00	211
90.00	48	177.00	2022	265.00	3391	385.00	34
91.00	1621	178.00	743	266.00	567	390.00	431
92.00	1720	179.00	8624	267.00	32	391.00	319
93.00	10893	180.00	6130	268.00	129	392.00	218
94.00	1037	181.00	2864	269.00	23	393.00	35
95.00	255	182.00	466	270.00	203	395.00	47
96.00	529	183.00	275	271.00	341	401.00	234
97.00	238	184.00	667	272.00	450	402.00	1337
98.00	8156	185.00	4172	273.00	4664	403.00	1937
99.00	6577	186.00	33304	274.00	11967	404.00	670
100.00	591	187.00	9176	275.00	67256	405.00	99
101.00	4224	188.00	879	276.00	8787	410.00	30
102.00	210	189.00	1888	277.00	5100	415.00	126
103.00	1401	190.00	323	278.00	954	420.00	44
104.00	2502	191.00	945	279.00	184	421.00	1914
105.00	2287	192.00	2852	281.00	81	422.00	1731
106.00	845	193.00	2978	282.00	110	423.00	12760

Data File: \\ELABNSH05\TARGET\chem\bna4.i\022812B4.b\SEQ-TUN1.D

Date : 28-FEB-2012 17:00

Client ID: 50ppm DFTPP

Instrument: bna4.i

Sample Info: DF0228B1;;;;;;12B0448

Operator: MEC

Column phase: DB5-MS

Column diameter: 0.25

Data File: SEQ-TUN1.D

Spectrum: Avg. Scans 481-483 (10.57), Background Scan 478

Location of Maximum: 442.00

Number of points: 344

m/z	Y	m/z	Y	m/z	Y	m/z	Y
107.00	31248	194.00	629	283.00	562	424.00	2528
108.00	4869	195.00	425	284.00	391	425.00	286
109.00	949	196.00	7882	285.00	928	435.00	75
110.00	61064	197.00	2085	286.00	131	436.00	23
111.00	8873	198.00	264640	288.00	38	437.00	244
112.00	1066	199.00	17720	289.00	191	438.00	142
113.00	324	200.00	1375	290.00	190	439.00	134
114.00	77	201.00	1174	291.00	127	440.00	768
115.00	315	202.00	33	292.00	316	441.00	43344
116.00	1677	203.00	1704	293.00	1237	442.00	270848
117.00	23152	204.00	9281	294.00	329	443.00	52320
118.00	1746	205.00	15308	295.00	443	444.00	4896
119.00	189	206.00	65112	296.00	18176	445.00	294
120.00	377	207.00	8652	297.00	2677		
121.00	121	208.00	2067	298.00	158		
122.00	1894	209.00	677	301.00	234		
123.00	3108	210.00	1028	302.00	305		

Data File: \\ELABNSH05\TARGET\chem\bna4.i\022812B4.b\SEQ-CCV1.D
Report Date: 28-Feb-2012 19:11

Laboratory Name

Data file : \\ELABNSH05\TARGET\chem\bna4.i\022812B4.b\SEQ-CCV1.D
Lab Smp Id: SEQ-CCV1 Client Smp ID: SEQ-CCV1
Inj Date : 28-FEB-2012 17:51 MS Autotune Date: 15-FEB-2012 09:23
Operator : MEC Inst ID: bna4.i
Smp Info : SEQ-CCV1;;;;;;12B0746
Misc Info : ;2;CCV;;;;pahlow.sub;
Comment :
Method : \\ELABNSH05\TARGET\chem\bna4.i\022812B4.b\IXBN4LOW.m
Meth Date : 28-Feb-2012 19:11 mcobb Quant Type: ISTD
Cal Date : 20-FEB-2012 16:29 Cal File: SEQ-CAL1.D
Als bottle: 2 Continuing Calibration Sample
Dil Factor: 1.00000
Integrator: HP RTE Compound Sublist: pahlow.sub
Target Version: 4.04
Processing Host: TARGET09_VM

3-1-12

Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	AMOUNTS CAL-AMT (ng/ul)	AMOUNTS ON-COL (ng/ul)
51 Naphthalene	128	6.218	6.218	(0.614)	485235	5.00000	5.193
55 2-Methylnaphthalene	142	7.037	7.037	(0.694)	307111	5.00000	5.044
56 1-Methylnaphthalene	142	7.167	7.167	(0.707)	301667	5.00000	5.116
$ 74 2-Fluorobiphenyl	172	7.492	7.492	(0.739)	342432	5.00000	4.608
77 Acenaphthylene	152	8.143	8.143	(0.804)	489298	5.00000	5.584
80 Acenaphthene	153	8.366	8.366	(0.826)	321300	5.00000	5.455
88 Fluorene	166	8.980	8.980	(0.886)	341619	5.00000	5.339
* 102 Phenanthrene-d10	188	10.132	10.132	(1.000)	92434	1.00000	
111 Phenanthrene	178	10.160	10.160	(1.003)	464464	5.00000	5.088
112 Anthracene	178	10.216	10.216	(1.008)	446222	5.00000	5.070
116 Fluoranthene	202	11.750	11.750	(1.160)	461682	5.00000	4.922
134 Pyrene	202	12.094	12.094	(1.194)	473578	5.00000	4.902
* 154 Perylene-d12	264	17.012	17.012	(1.000)	37584	1.00000	
$ 135 Terphenyl-d14	244	12.345	12.345	(1.218)	276972	5.00000	4.336
138 Benzo(a)anthracene	228	14.195	14.195	(1.401)	292809	5.00000	4.802
139 Chrysene	228	14.278	14.278	(1.409)	277756	5.00000	4.556
156 Benzo(b)fluoranthene	252	16.296	16.296	(0.958)	221326	5.00000	4.696
157 Benzo(k)fluoranthene	252	16.342	16.342	(0.961)	239132	5.00000	5.150
158 Benzo(a)pyrene	252	16.900	16.900	(0.993)	182859	5.00000	5.176
159 Indeno(1,2,3-cd)pyrene	276	18.908	18.908	(1.111)	154594	5.00000	5.507
160 Dibenz(a,h)anthracene	278	18.936	18.936	(1.113)	122036	5.00000	5.460
161 Benzo(g,h,i)perylene	276	19.391	19.391	(1.140)	140898	5.00000	5.572

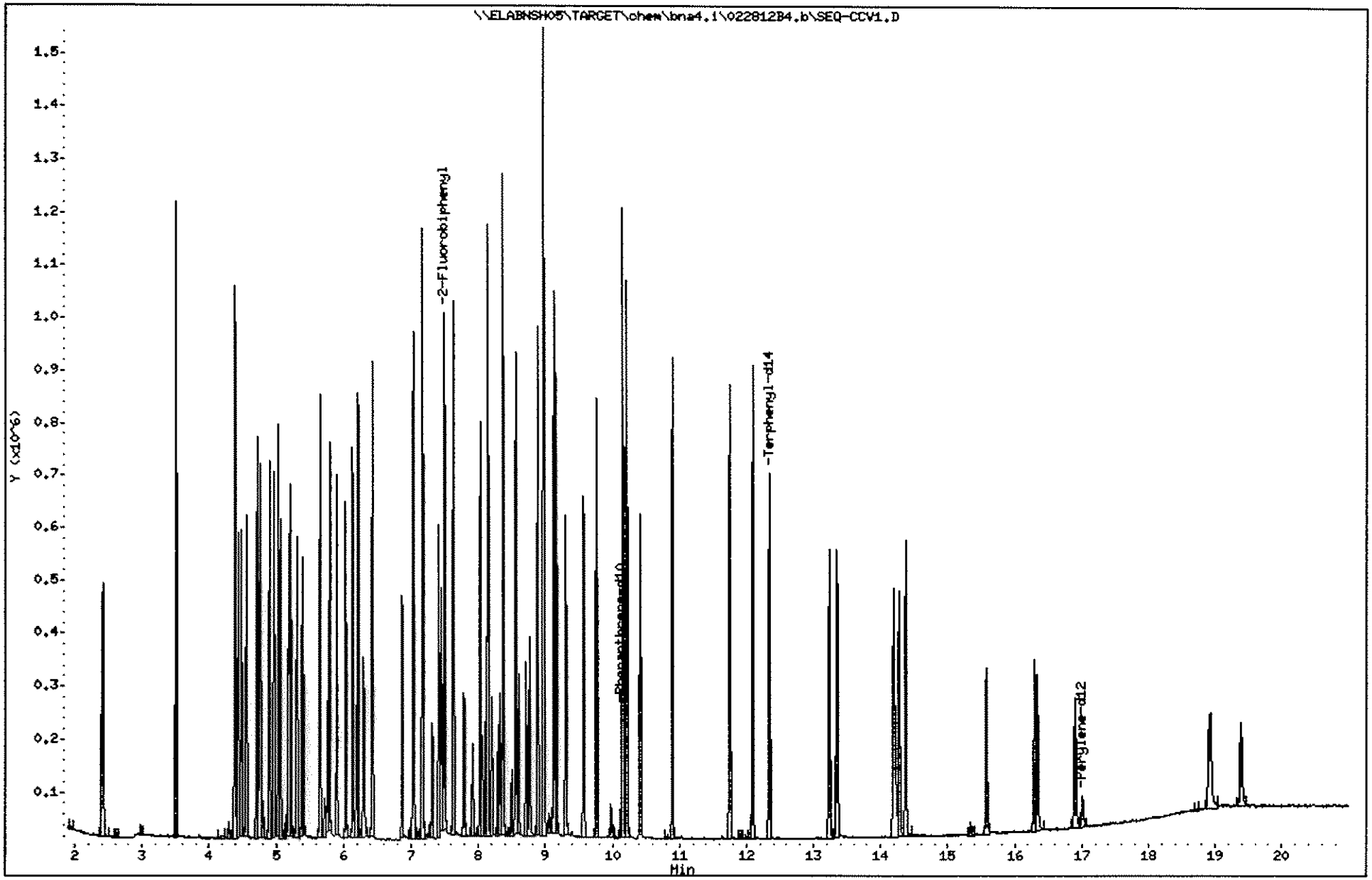
MEC
3/1/12

Data File: \\ELABNSHO5\TARGET\chem\bna4.i\022812B4.b\SEQ-CCV1.D
Date : 28-FEB-2012 17:51
Client ID: SEQ-CCV1
Sample Info: SEQ-CCV1;;;;;;12B0746

Column phase: fused silica

Instrument: bna4.i

Operator: HEC
Column diameter: 0.25



366

1202150

Data File: \\ELABNSH05\TARGET\chem\bna4.i\022812B4.b\B23003L1.D
Report Date: 01-Mar-2012 11:06

Laboratory Name

Data file : \\ELABNSH05\TARGET\chem\bna4.i\022812B4.b\B23003L1.D
Lab Smp Id: 2B23003-BS2 Client Smp ID: 2B23003-BS2
Inj Date : 28-FEB-2012 18:20 MS Autotune Date: 15-FEB-2012 09:23
Operator : MEC Inst ID: bna4.i
Smp Info : 2B23003-BS2;1;1000;1000;1;ug/L;23-FEB-2012
Misc Info : ;3;LCS;;;2B23003;pahlow.sub;
Comment :
Method : \\ELABNSH05\TARGET\chem\bna4.i\022812B4.b\IXBN4LOW.m
Meth Date : 01-Mar-2012 11:03 mcobb Quant Type: ISTD
Cal Date : 20-FEB-2012 16:29 Cal File: SEQ-CAL1.D
Als bottle: 3 QC Sample: LCS
Dil Factor: 1.00000
Integrator: HP RTE Compound Sublist: pahlow.sub
Target Version: 4.04
Processing Host: TARGET09_VM

Concentration Formula: Amt * DF * Uf * Vt* Vi/(Amt * Vi)

Name	Value	Description
DF	1.000	Dilution Factor
Uf	1.000	ng unit correction factor
Vt	1000.000	Volume of final extract (uL)
Vi	1.000	Volume injected (uL)
Amt	1000.000	Volume of initial extraction

RPN 3-1-12

Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS ON-COLUMN (ng/ul)	FINAL (ug/L)
51 Naphthalene	128	6.209	6.218	(0.613)	83425	0.90691	0.9069
55 2-Methylnaphthalene	142	7.036	7.036	(0.694)	53157	0.88691	0.8869
56 1-Methylnaphthalene	142	7.167	7.167	(0.707)	49836	0.85843	0.8584
$ 74 2-Fluorobiphenyl	172	7.501	7.492	(0.740)	2957279	40.4228	40.42
77 Acenaphthylene	152	8.143	8.143	(0.804)	81777	0.94799	0.9480
80 Acenaphthene	153	8.366	8.366	(0.826)	54981	0.94816	0.9482
88 Fluorene	166	8.979	8.979	(0.886)	59436	0.94354	0.9435
* 102 Phenanthrene-d10	188	10.132	10.132	(1.000)	91000	1.00000	
111 Phenanthrene	178	10.160	10.160	(1.003)	89364	0.99439	0.9944
112 Anthracene	178	10.216	10.216	(1.008)	80351	0.92736	0.9274
116 Fluoranthene	202	11.750	11.750	(1.160)	93478	1.01239	1.012
134 Pyrene	202	12.094	12.094	(1.194)	94422	0.99274	0.9927
* 154 Perylene-d12	264	17.011	17.011	(1.000)	47679	1.00000	
$ 135 Terphenyl-d14	244	12.354	12.345	(1.219)	3150470	50.0949	50.09(A)

ME 3/1/12

Data File: \\ELABNSH05\TARGET\chem\bna4.i\022812B4.b\B23003L1.D
Report Date: 01-Mar-2012 11:06

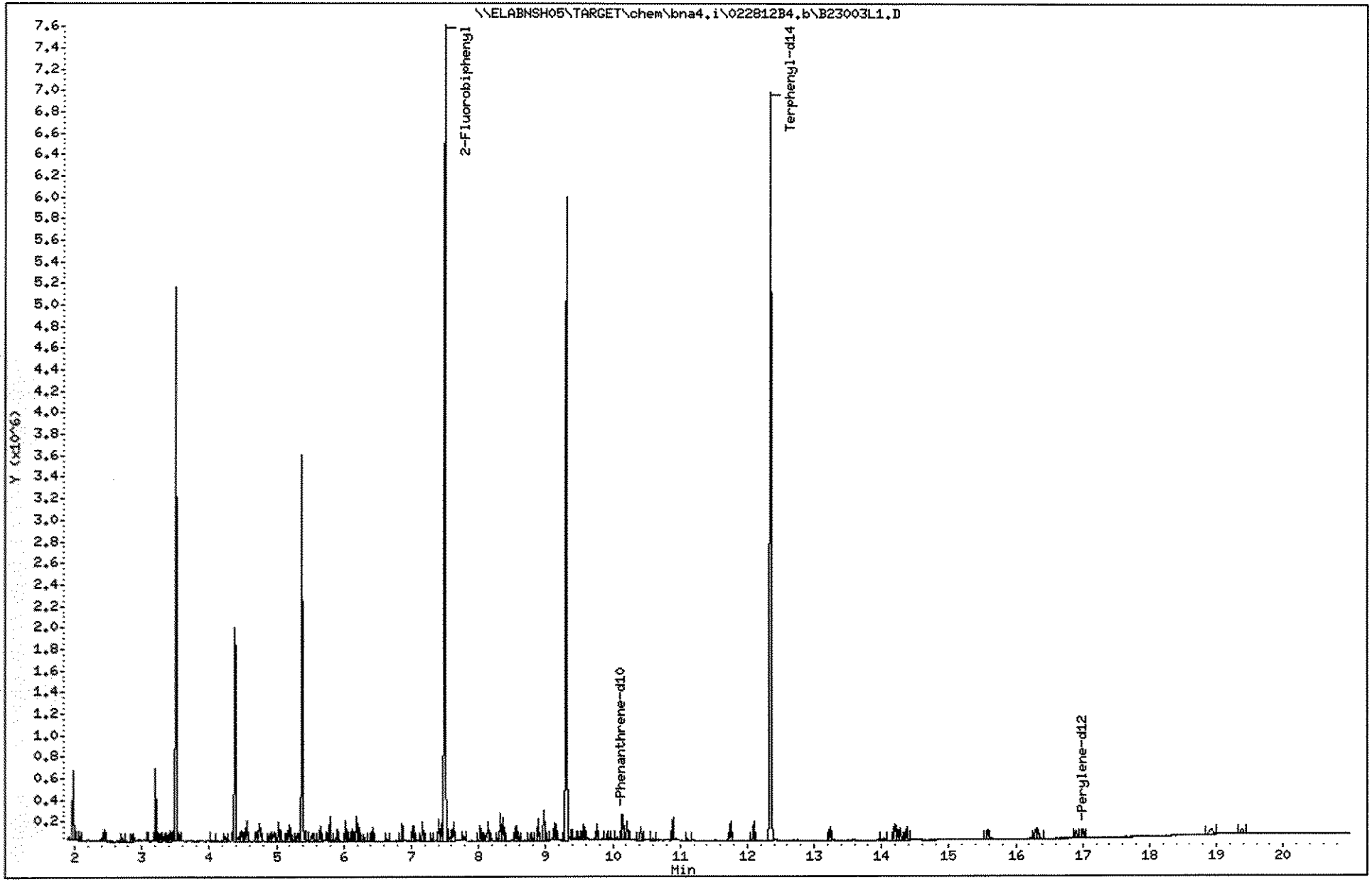
Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS ON-COLUMN (ng/ul)	FINAL (ug/L)
138 Benzo(a)anthracene	228	14.195	14.195	(1.401)	66281	1.10405	1.104(R)
139 Chrysene	228	14.278	14.278	(1.409)	67695	1.12797	1.128(R)
156 Benzo(b)fluoranthene	252	16.296	16.296	(0.958)	57949	0.96930	0.9693
157 Benzo(k)fluoranthene	252	16.342	16.342	(0.961)	61112	1.03745	1.037
158 Benzo(a)pyrene	252	16.900	16.909	(0.993)	46632	1.04055	1.040
159 Indeno(1,2,3-cd)pyrene	276	18.908	18.908	(1.111)	43277	1.21527	1.215
160 Dibenz(a,h)anthracene	278	18.936	18.936	(1.113)	33914	1.19614	1.196
161 Benzo(g,h,i)perylene	276	19.391	19.391	(1.140)	40424	1.26017	1.260(R)

QC Flag Legend

A - Target compound detected but, quantitated amount exceeded maximum amount.
R - Spike/Surrogate failed recovery limits.

Data File: \\ELABNSH05\TARGET\chem\bna4.i\022812B4.b\B23003L1.D
Date : 28-FEB-2012 18:20
Client ID: 2B23003-BS2
Sample Info: 2B23003-BS2;1;1000;1000;1;ug/L;23-FEB-2012
Volume Injected (uL): 1.0
Column phase: fused silica

Instrument: bna4.i
Operator: MEC
Column diameter: 0.25



Data File: \\ELABNSH05\TARGET\chem\bna4.i\022812B4.b\B23003L2.D
Report Date: 01-Mar-2012 11:06

Laboratory Name

Data file : \\ELABNSH05\TARGET\chem\bna4.i\022812B4.b\B23003L2.D
Lab Smp Id: 2B23003-BSD2 Client Smp ID: 2B23003-BSD2
Inj Date : 28-FEB-2012 18:48 MS Autotune Date: 15-FEB-2012 09:23
Operator : MEC Inst ID: bna4.i
Smp Info : 2B23003-BSD2;1;1000;1000;1;ug/L;23-FEB-2012
Misc Info : ;3;LCSD;;;2B23003;pahlow.sub;
Comment :
Method : \\ELABNSH05\TARGET\chem\bna4.i\022812B4.b\IXBN4LOW.m
Meth Date : 01-Mar-2012 11:03 mcobb Quant Type: ISTD
Cal Date : 20-FEB-2012 16:29 Cal File: SEQ-CAL1.D
Als bottle: 4 QC Sample: LCSD
Dil Factor: 1.00000
Integrator: HP RTE Compound Sublist: pahlow.sub
Target Version: 4.04
Processing Host: TARGET09_VM

Concentration Formula: Amt * DF * Uf * Vt* Vi/(Amt * Vi)

Name	Value	Description
DF	1.000	Dilution Factor
Uf	1.000	ng unit correction factor
Vt	1000.000	Volume of final extract (uL)
Vi	1.000	Volume injected (uL)
Amt	1000.000	Volume of initial extraction

RBW 3-1-12

Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS ON-COLUMN (ng/ul)	FINAL (ug/L)
51 Naphthalene	128	6.209	6.218	(0.613)	96235	1.04038	1.040(R)
55 2-Methylnaphthalene	142	7.036	7.036	(0.694)	61981	1.02842	1.028
56 1-Methylnaphthalene	142	7.167	7.167	(0.707)	58663	1.00489	1.005
$ 74 2-Fluorobiphenyl	172	7.501	7.492	(0.740)	3361604	45.6954	45.70
77 Acenaphthylene	152	8.143	8.143	(0.804)	98336	1.13364	1.134(R)
80 Acenaphthene	153	8.366	8.366	(0.826)	65472	1.12283	1.123(R)
88 Fluorene	166	8.979	8.979	(0.886)	70698	1.11611	1.116(R)
* 102 Phenanthrene-d10	188	10.132	10.132	(1.000)	91506	1.00000	
111 Phenanthrene	178	10.160	10.160	(1.003)	100388	1.11088	1.111
112 Anthracene	178	10.216	10.216	(1.008)	90639	1.04031	1.040
116 Fluoranthene	202	11.750	11.750	(1.160)	97731	1.05260	1.052
134 Pyrene	202	12.094	12.094	(1.194)	96191	1.00575	1.006
* 154 Perylene-d12	264	17.011	17.011	(1.000)	29198	1.00000	
$ 135 Terphenyl-d14	244	12.354	12.345	(1.219)	3162391	50.0064	50.01(A)

MEC 3/1/12

Data File: \\ELABNSH05\TARGET\chem\bna4.i\022812B4.b\B23003L2.D
Report Date: 01-Mar-2012 11:06

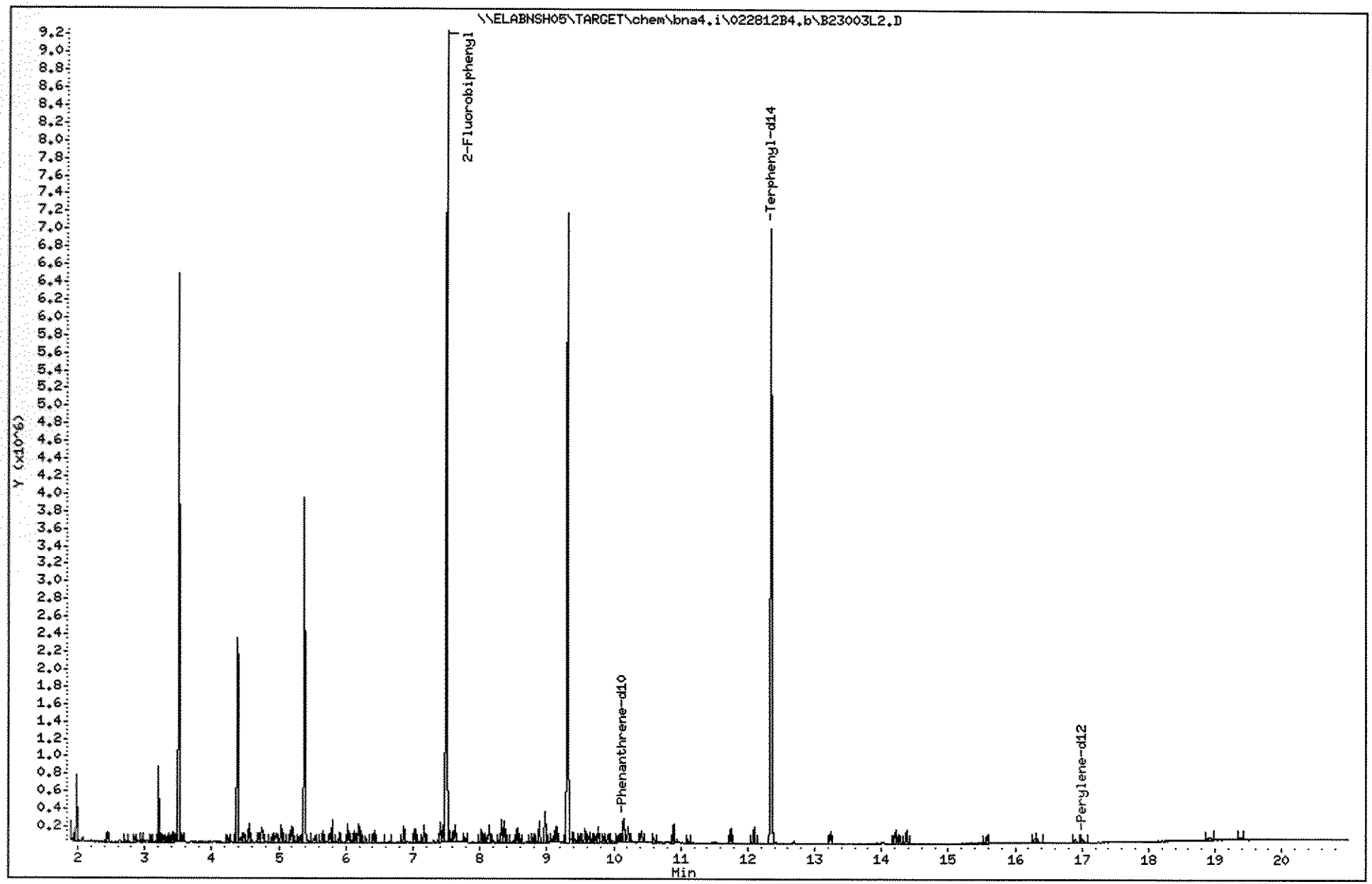
Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS ON-COLUMN (ng/ul)	FINAL (ug/L)
138 Benzo(a)anthracene	228	14.195	14.195	(1.401)	53466	0.88566	0.8857
139 Chrysene	228	14.278	14.278	(1.409)	53280	0.88287	0.8829
156 Benzo(b)fluoranthene	252	16.296	16.296	(0.958)	38120	1.04121	1.041
157 Benzo(k)fluoranthene	252	16.333	16.342	(0.960)	41699	1.15596	1.156
158 Benzo(a)pyrene	252	16.900	16.909	(0.993)	27540	1.00350	1.003
159 Indeno(1,2,3-cd)pyrene	276	18.908	18.908	(1.111)	24945	1.14386	1.144
160 Dibenz(a,h)anthracene	278	18.936	18.936	(1.113)	19593	1.12843	1.128
161 Benzo(g,h,i)perylene	276	19.391	19.391	(1.140)	23062	1.17398	1.174

QC Flag Legend

A - Target compound detected but, quantitated amount exceeded maximum amount.
R - Spike/Surrogate failed recovery limits.

Data File: \\ELABNSH05\TARGET\chem\bna4.i\022812B4.b\B23003L2.D
Date : 28-FEB-2012 18:48
Client ID: 2B23003-BSD2
Sample Info: 2B23003-BSD2;1;1000;1000;1;ug/L;23-FEB-2012
Volume Injected (uL): 1.0
Column phase: fused silica

Instrument: bna4.i
Operator: MEC
Column diameter: 0.25



Data File: \\ELABNSH05\TARGET\chem\bna4.i\022812B4.b\B23003B1.D
Report Date: 01-Mar-2012 11:07

Laboratory Name

Data file : \\ELABNSH05\TARGET\chem\bna4.i\022812B4.b\B23003B1.D
Lab Smp Id: 2B23003-BLK2 Client Smp ID: 2B23003-BLK2
Inj Date : 28-FEB-2012 19:17 MS Autotune Date: 15-FEB-2012 09:23
Operator : MEC Inst ID: bna4.i
Smp Info : 2B23003-BLK2;1;1000;1000;1;ug/L;23-FEB-2012
Misc Info : ;3;BLANK;;;2B23003;pahlow.sub;
Comment :
Method : \\ELABNSH05\TARGET\chem\bna4.i\022812B4.b\IXBN4LOW.m
Meth Date : 01-Mar-2012 11:03 mcobb Quant Type: ISTD
Cal Date : 20-FEB-2012 16:29 Cal File: SEQ-CAL1.D
Als bottle: 5 QC Sample: BLANK
Dil Factor: 1.00000
Integrator: HP RTE Compound Sublist: pahlow.sub
Target Version: 4.04
Processing Host: TARGET09_VM

Concentration Formula: Amt * DF * Uf * Vt* Vi/(Amt * Vi)

Name	Value	Description
DF	1.000	Dilution Factor
Uf	1.000	ng unit correction factor
Vt	1000.000	Volume of final extract (uL)
Vi	1.000	Volume injected (uL)
Amt	1000.000	Volume of initial extraction

RPW 3-1-12

Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS ON-COLUMN (ng/ul)	FINAL (ug/L)
$ 74 2-Fluorobiphenyl	172	7.501	7.492	(0.740)	2264084	25.7937	25.79
* 102 Phenanthrene-d10	188	10.132	10.132	(1.000)	109183	1.00000	
111 Phenanthrene	178	10.160	10.160	(1.003)	3081	0.02857	0.02857(a)
* 154 Perylene-d12	264	17.012	17.011	(1.000)	45014	1.00000	
$ 135 Terphenyl-d14	244	12.354	12.345	(1.219)	2890927	38.3126	38.31
156 Benzo(b)fluoranthene	252	16.296	16.296	(0.958)	1205	0.02135	0.02135(a)
157 Benzo(k)fluoranthene	252	16.342	16.342	(0.961)	1146	0.02061	0.02061(aQM)

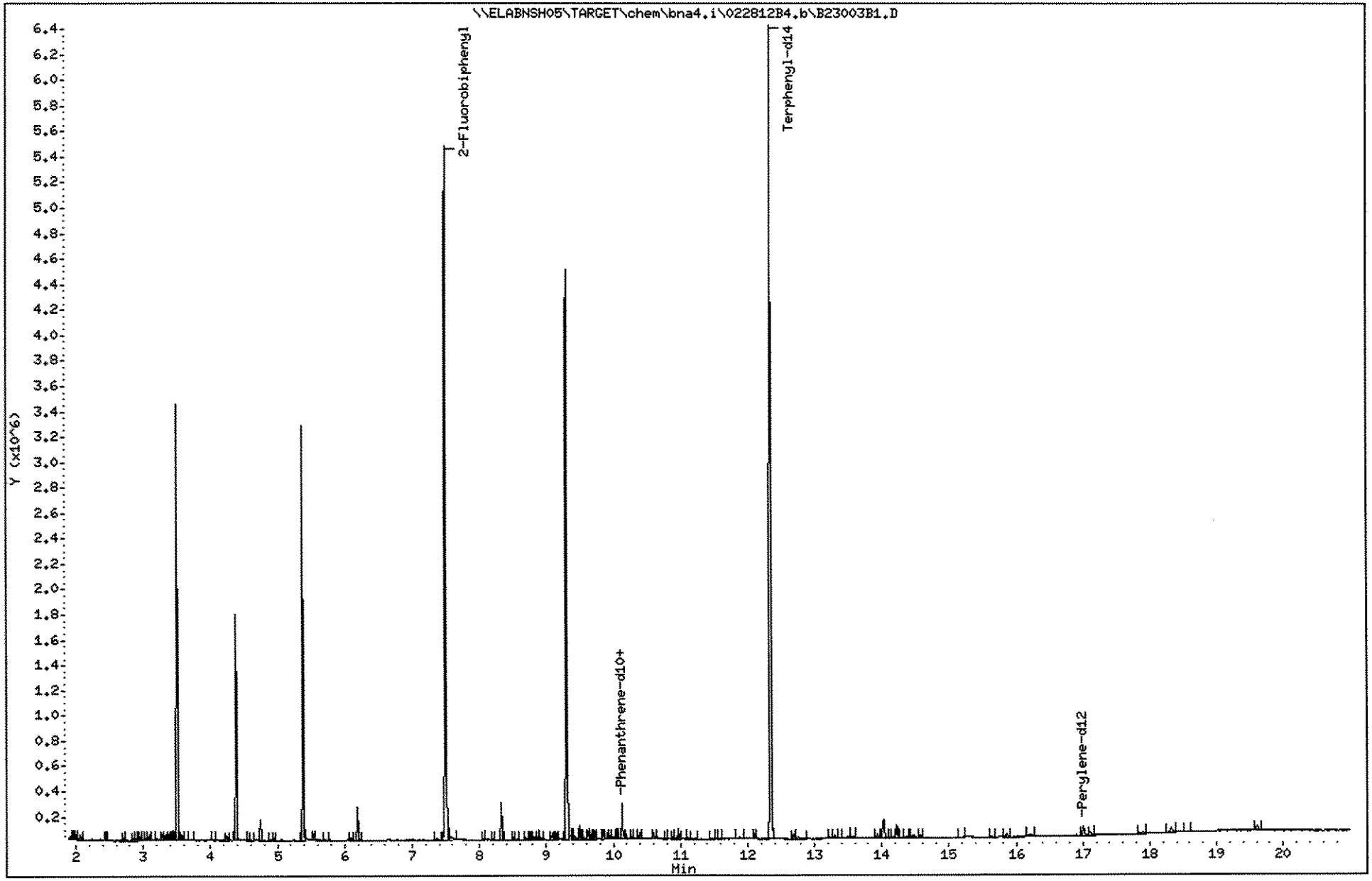
QC Flag Legend

a - Target compound detected but, quantitated amount
Below Limit Of Quantitation(BLOQ).
Q - Qualifier signal failed the ratio test.
M - Compound response manually integrated.

mec 3/1/12

Data File: \\ELABNSH05\TARGET\chem\bna4.i\022812B4.b\B23003B1.D
Date : 28-FEB-2012 19:17
Client ID: 2B23003-BLK2
Sample Info: 2B23003-BLK2;1;1000;1000;1;ug/L;23-FEB-2012
Volume Injected (uL): 1.0
Column phase: fused silica

Instrument: bna4.i
Operator: MEC
Column diameter: 0.25



Data File: \\ELABNSH05\TARGET\chem\bna4.i\022812B4.b\B23003B1.D

Date : 28-FEB-2012 19:17

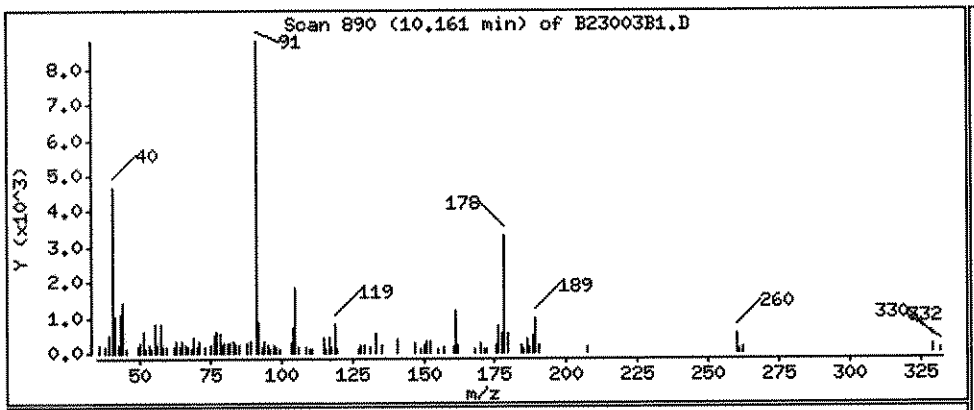
Client ID: 2B23003-BLK2 Instrument: bna4.i

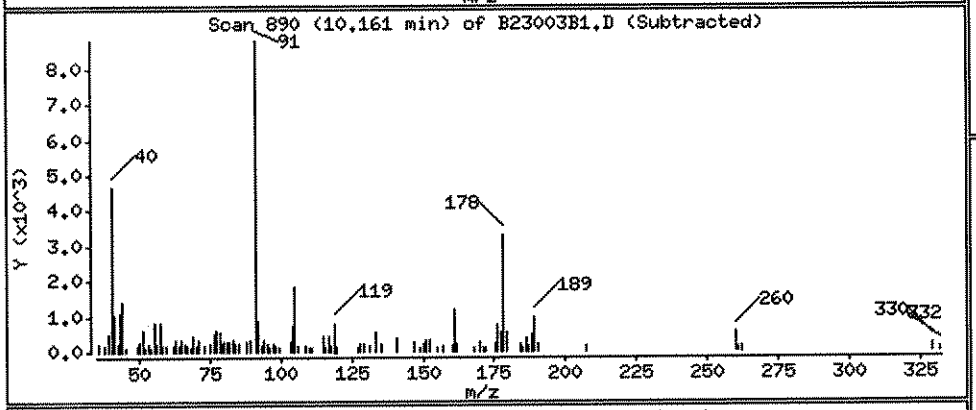
Sample Info: 2B23003-BLK2;1;1000;1000;1;ug/L;23-FEB-2012

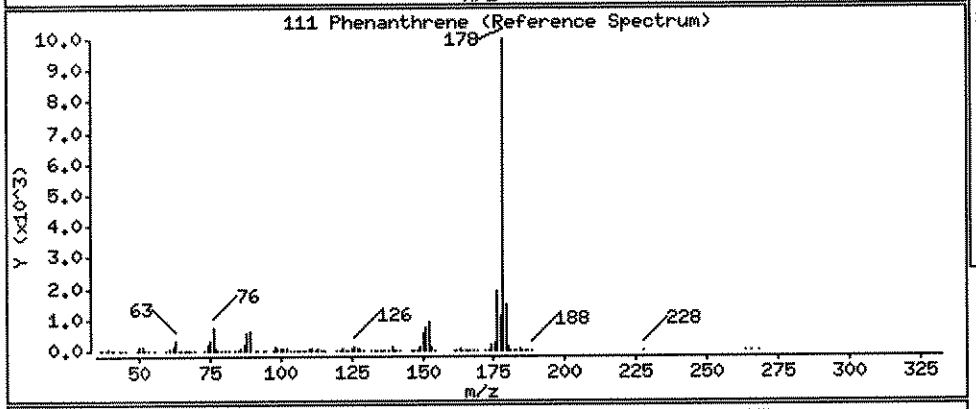
Volume Injected (uL): 1.0 Operator: MEC

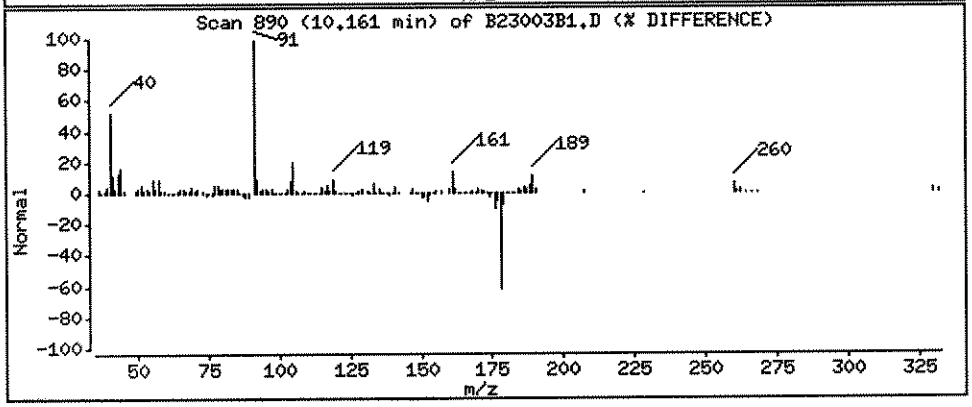
Column phase: fused silica Column diameter: 0.25

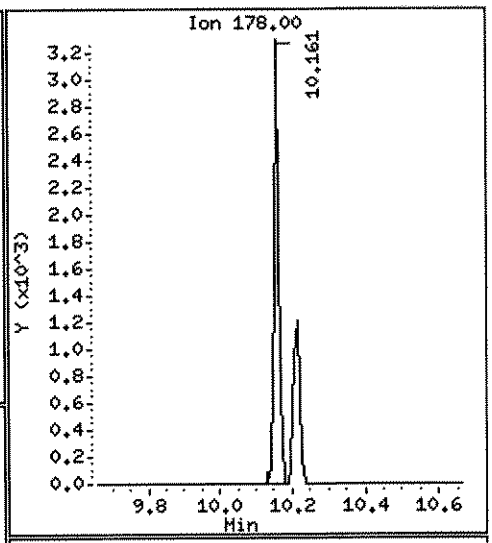
111 Phenanthrene Concentration: 0.02857 ug/L

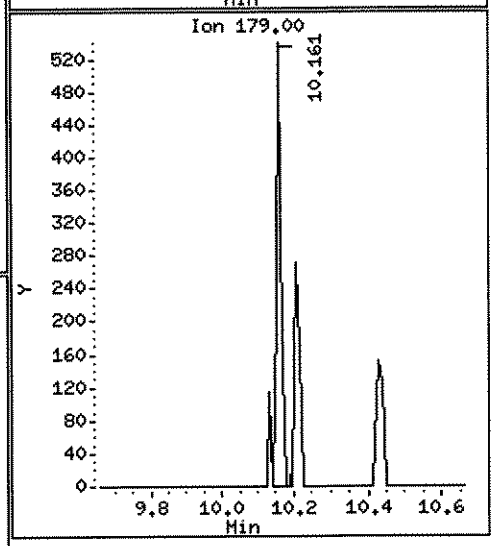












Data File: \\ELABNSH05\TARGET\chem\bna4.i\022812B4.b\B23003B1.D

Date : 28-FEB-2012 19:17

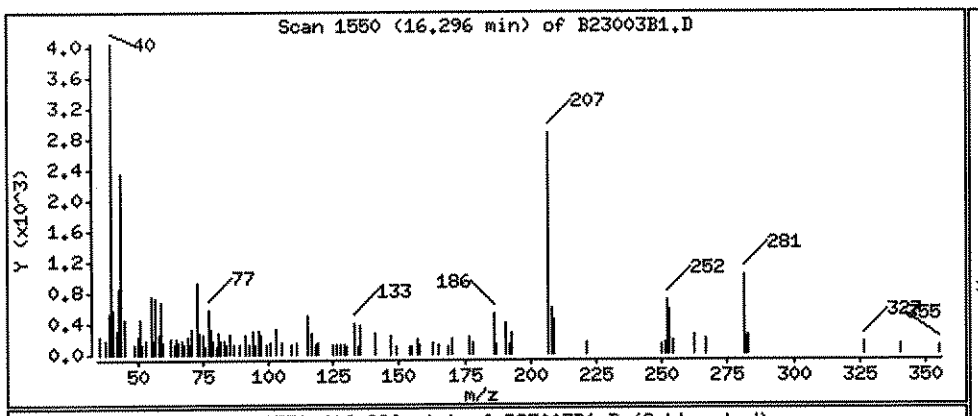
Client ID: 2B23003-BLK2 Instrument: bna4.i

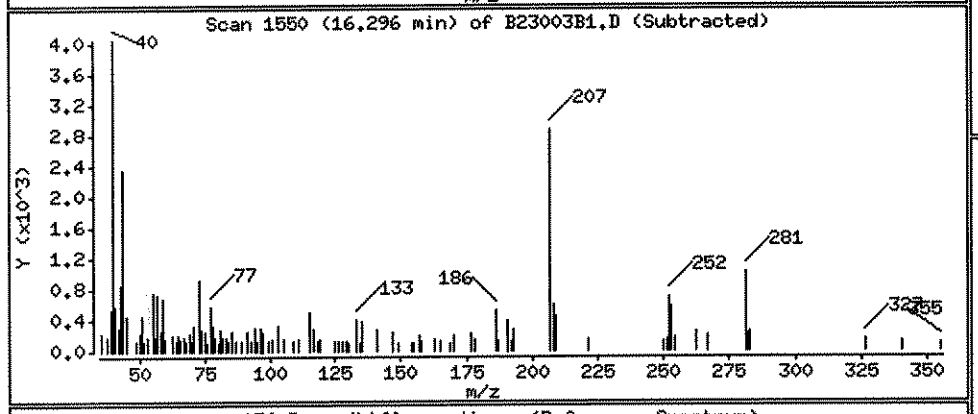
Sample Info: 2B23003-BLK2;1;1000;1000;1;ug/L;23-FEB-2012

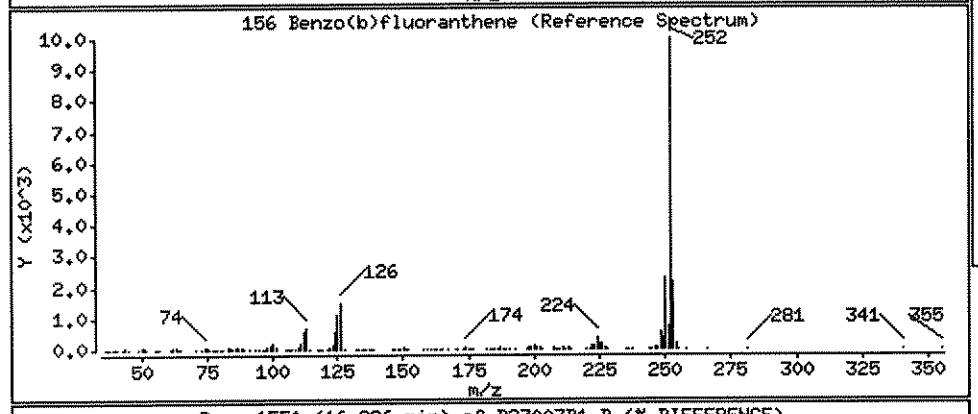
Volume Injected (uL): 1.0 Operator: MEC

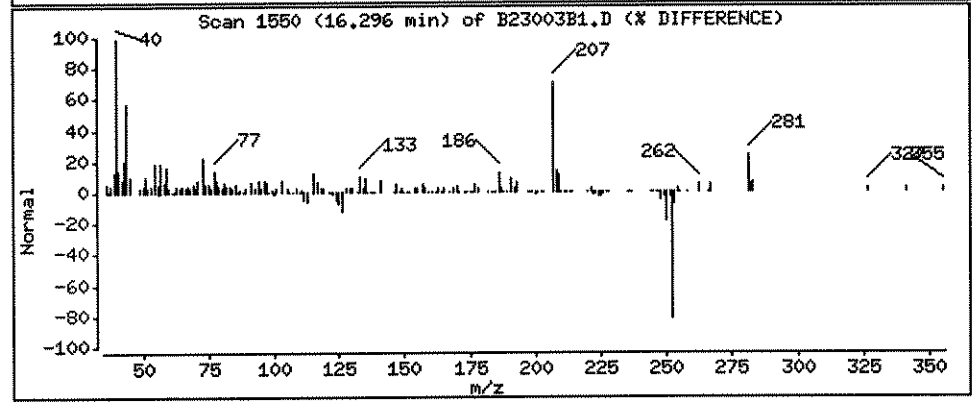
Column phase: fused silica Column diameter: 0.25

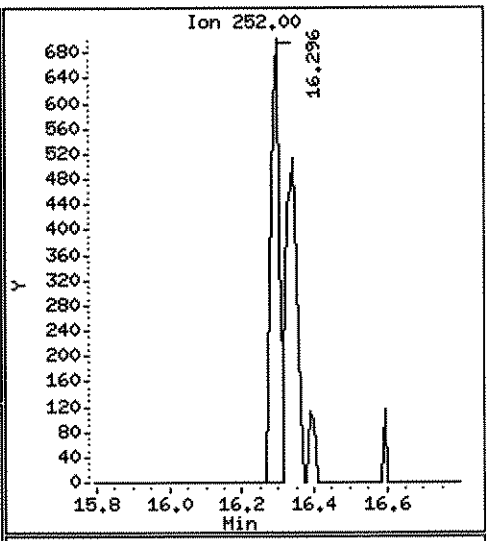
156 Benzo(b)fluoranthene Concentration: 0.02135 ug/L

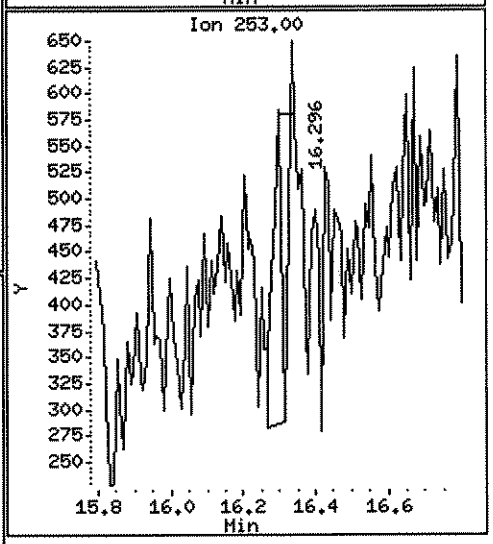






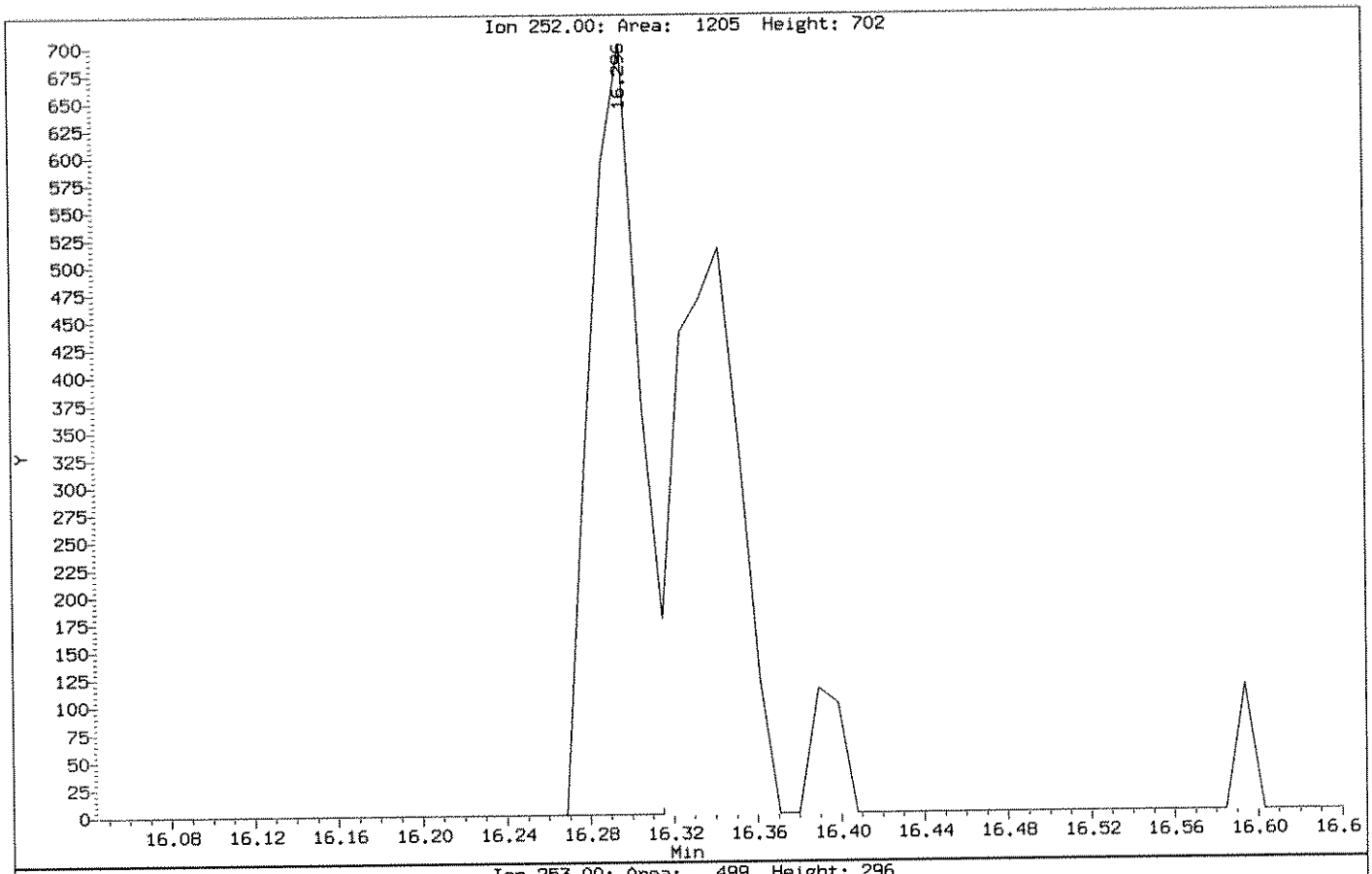


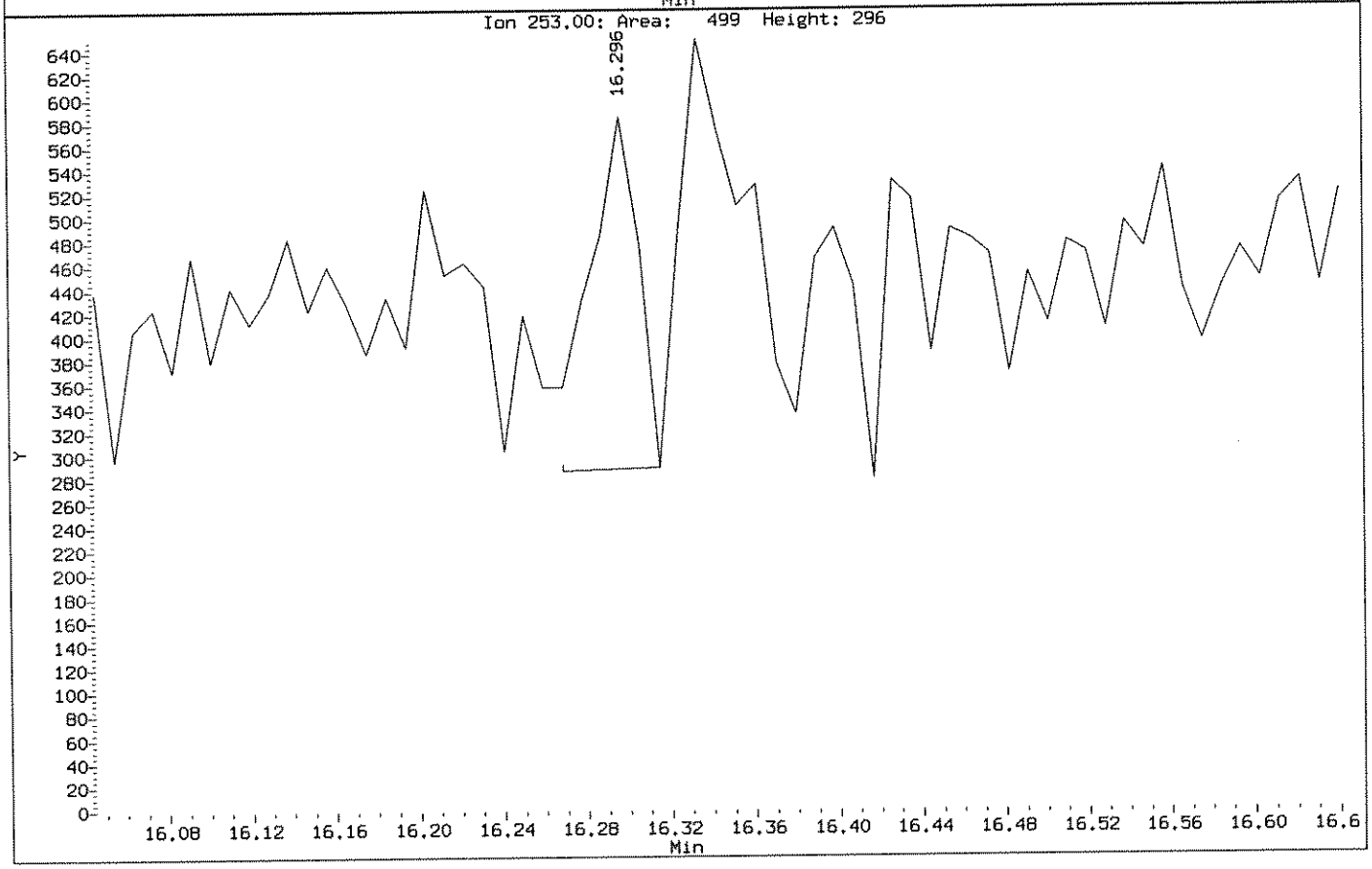




Data File: \\ELABNSH05\TARGET\chem\bna4.i\022812B4.b\B23003B1.D
Injection Date: 28-FEB-2012 19:17
Instrument: bna4.i
Client Sample ID: 2B23003-BLK2

Compound: Benzo(k)fluoranthene
CAS Number: 207-08-9





Data File: \\ELABNSH05\TARGET\chem\bna4.i\022812B4.b\B23003B1.D

Date : 28-FEB-2012 19:17

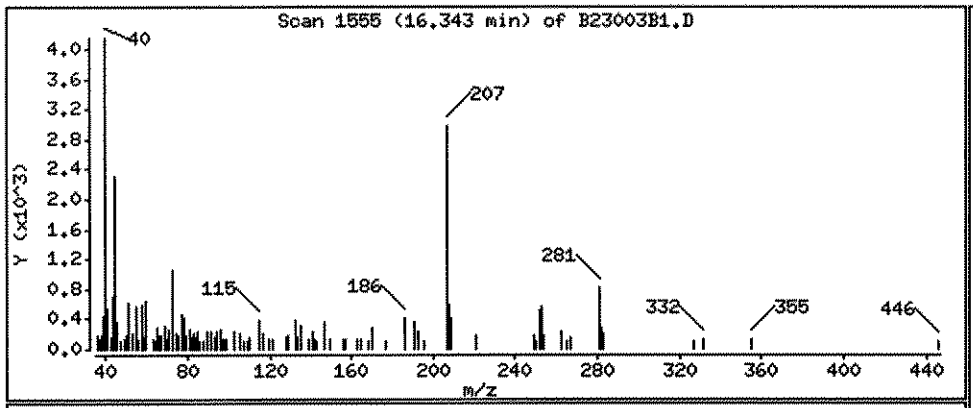
Client ID: 2B23003-BLK2 Instrument: bna4.i

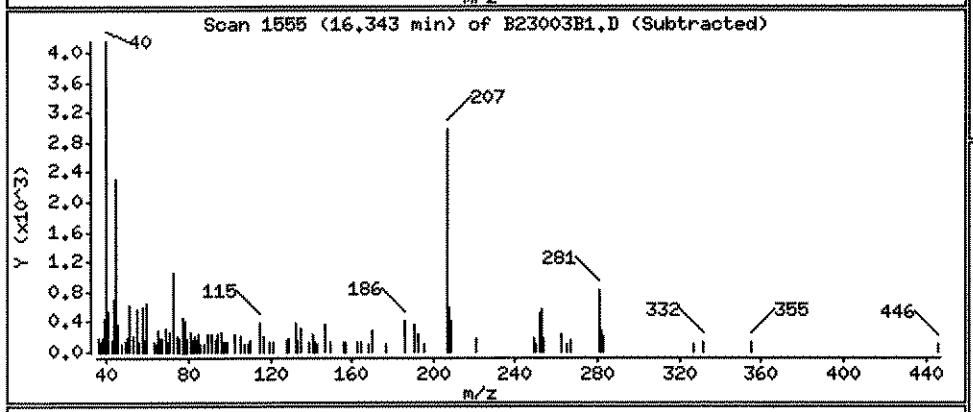
Sample Info: 2B23003-BLK2;1;1000;1000;1;ug/L;23-FEB-2012

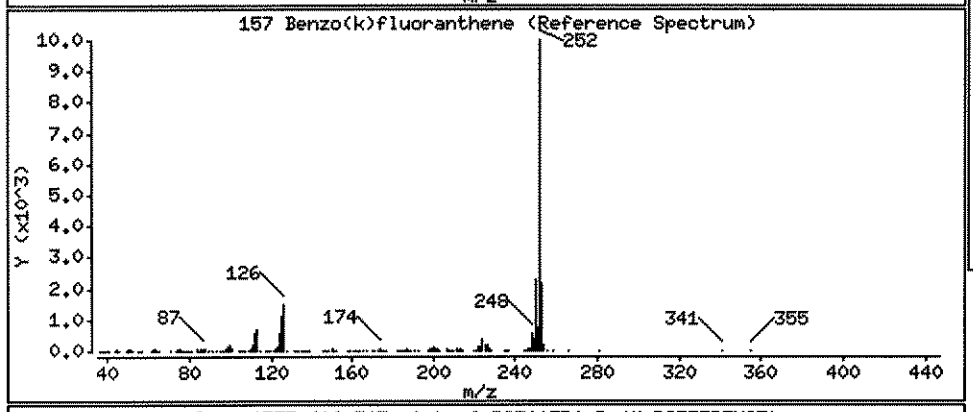
Volume Injected (uL): 1.0 Operator: MEC

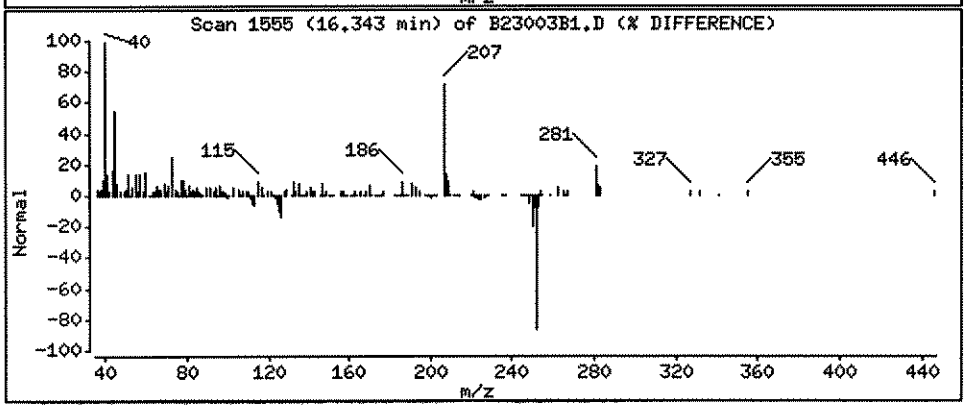
Column phase: fused silica Column diameter: 0.25

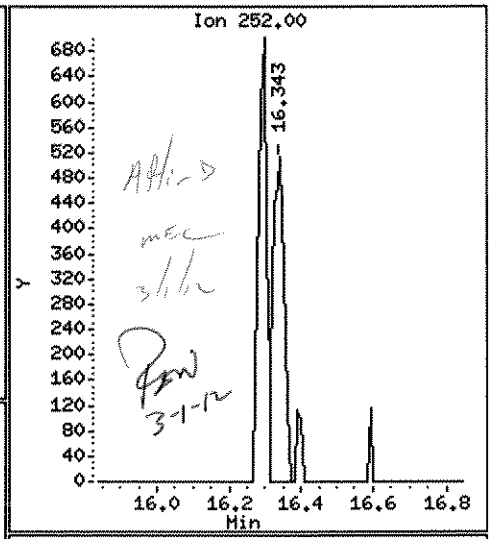
157 Benzo(k)fluoranthene Concentration: 0.02061 ug/L

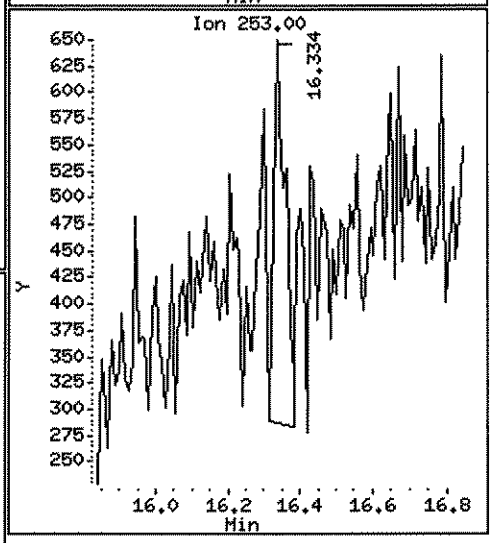












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Report Date: 01-Mar-2012 11:07

Laboratory Name

Data file : \\ELABNSH05\TARGET\chem\bna4.i\022812B4.b\0215005.D
Lab Smp Id: 1202150-05 Client Smp ID: FLC-4-RB01-022112
Inj Date : 28-FEB-2012 21:11 MS Autotune Date: 15-FEB-2012 09:23
Operator : MEC Inst ID: bna4.i
Smp Info : 1202150-05;1;1000;1000;1;ug/L;23-FEB-2012
Misc Info : ;0;;;;2B23003;pahlow.sub;
Comment :
Method : \\ELABNSH05\TARGET\chem\bna4.i\022812B4.b\IXBN4LOW.m
Meth Date : 01-Mar-2012 11:03 mcobb Quant Type: ISTD
Cal Date : 20-FEB-2012 16:29 Cal File: SEQ-CAL1.D
Als bottle: 9
Dil Factor: 1.00000
Integrator: HP RTE Compound Sublist: pahlow.sub
Target Version: 4.04
Processing Host: TARGET09_VM

Concentration Formula: Amt * DF * Uf * Vt* Vi/(Amt * Vi)

Name	Value	Description
DF	1.000	Dilution Factor
Uf	1.000	ng unit correction factor
Vt	1000.000	Volume of final extract (uL)
Vi	1.000	Volume injected (uL)
Amt	1000.000	Volume of initial extraction

RBW 3-1-12

Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS ON-COLUMN (ng/ul)	FINAL (ug/L)
51 Naphthalene	128	6.209	6.218	(0.613)	3679	0.03411	0.03411(a)
$ 74 2-Fluorobiphenyl	172	7.501	7.492	(0.740)	3305470	38.5351	38.54
* 102 Phenanthrene-d10	188	10.132	10.132	(1.000)	106697	1.00000	
111 Phenanthrene	178	10.160	10.160	(1.003)	6471	0.06141	0.06141
116 Fluoranthene	202	11.750	11.750	(1.160)	2923	0.02700	0.02700(a)
* 154 Perylene-d12	264	17.012	17.011	(1.000)	50153	1.00000	
$ 135 Terphenyl-d14	244	12.354	12.345	(1.219)	3984135	54.0308	54.03(A)

QC Flag Legend

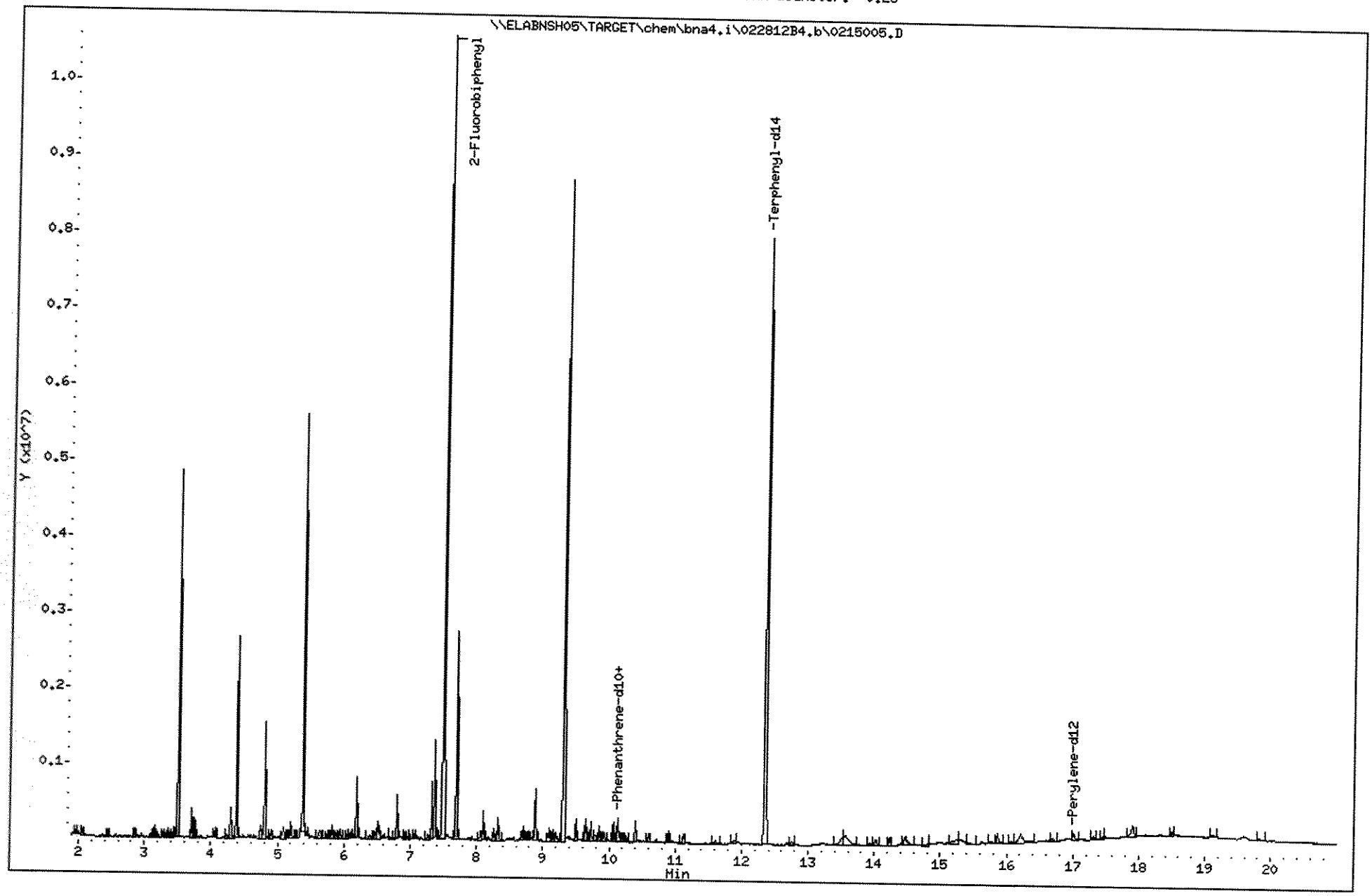
a - Target compound detected but, quantitated amount Below Limit Of Quantitation(BLOQ).
A - Target compound detected but, quantitated amount exceeded maximum amount.

MEC 3/1/12

Data File: \\ELABNSH05\TARGET\chem\bna4.i\022812B4.b\0215005.D
Date : 28-FEB-2012 21:11
Client ID: FLC-4-RB01-022112
Sample Info: 1202150-05;1;1000;1000;1;ug/L;23-FEB-2012
Volume Injected (uL): 1.0
Column phase: fused silica

Instrument: bna4.i

Operator: MEC
Column diameter: 0.25



380

1202150

Data File: \\ELABNSH05\TARGET\chem\bna4.i\022812B4.b\0215005.D

Date : 28-FEB-2012 21:11

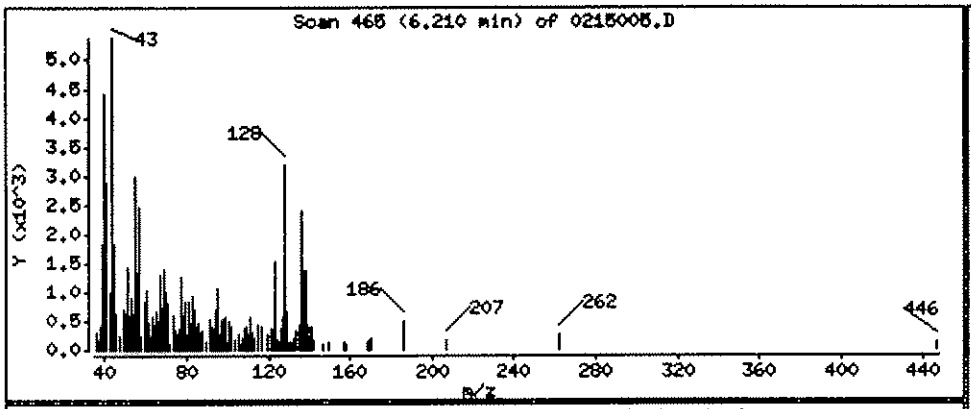
Client ID: FLC-4-RB01-022112 Instrument: bna4.i

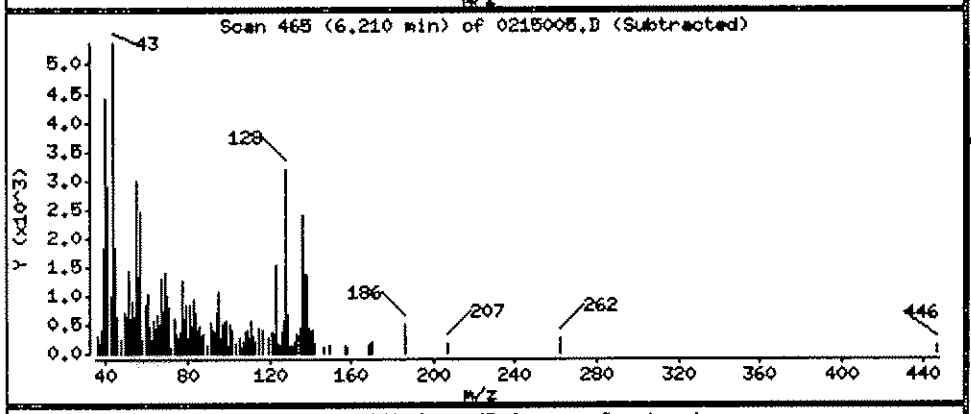
Sample Info: 1202150-05;1;1000;1000;1;ug/L;23-FEB-2012

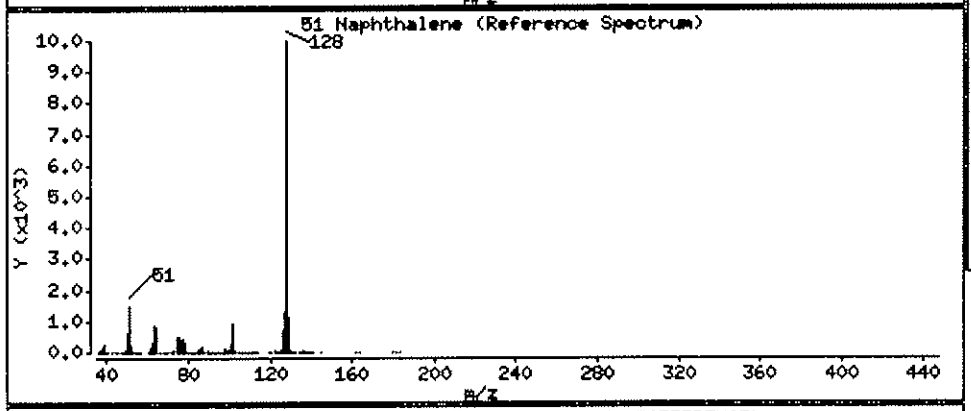
Volume Injected (uL): 1.0 Operator: HEC

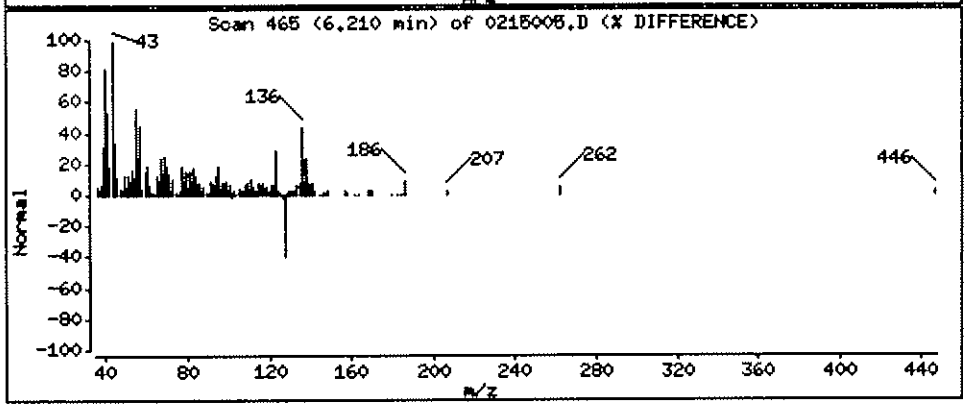
Column phase: fused silica Column diameter: 0.25

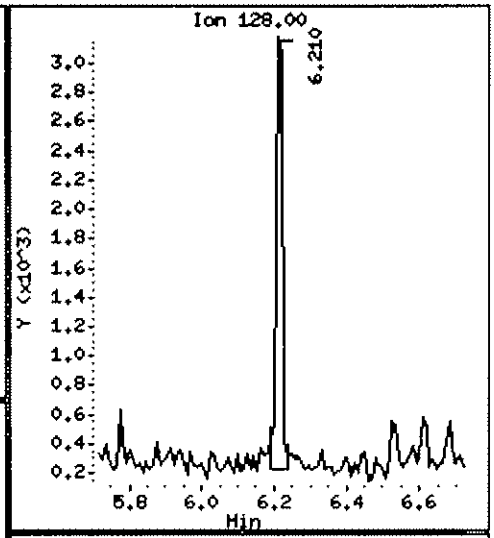
51 Naphthalene Concentration: 0.03411 ug/L

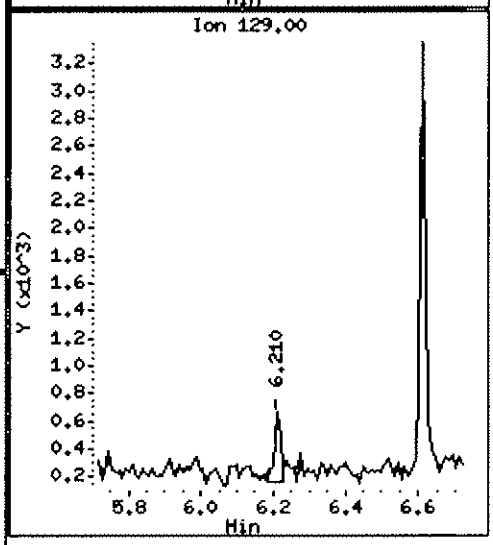












Data File: \\ELABNSH05\TARGET\chem\bna4.i\022812B4.b\0215005.D

Date : 28-FEB-2012 21:11

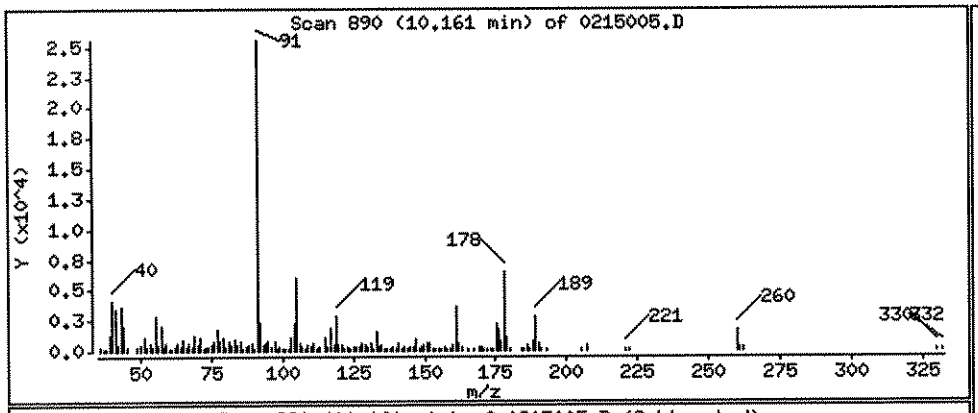
Client ID: FLC-4-RB01-022112 Instrument: bna4.i

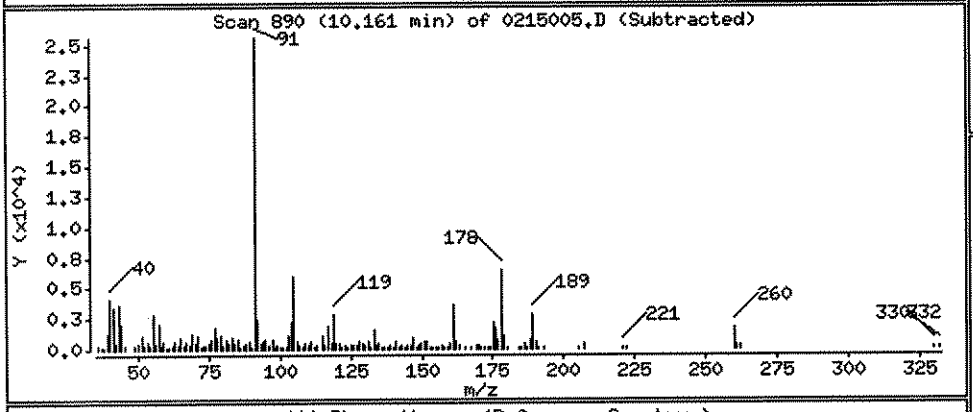
Sample Info: 1202150-05;1;1000;1000;1;ug/L;23-FEB-2012

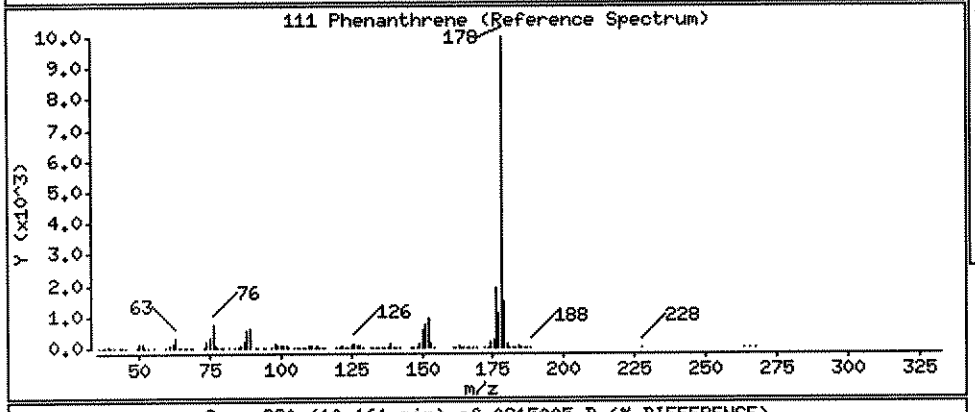
Volume Injected (uL): 1.0 Operator: MEC

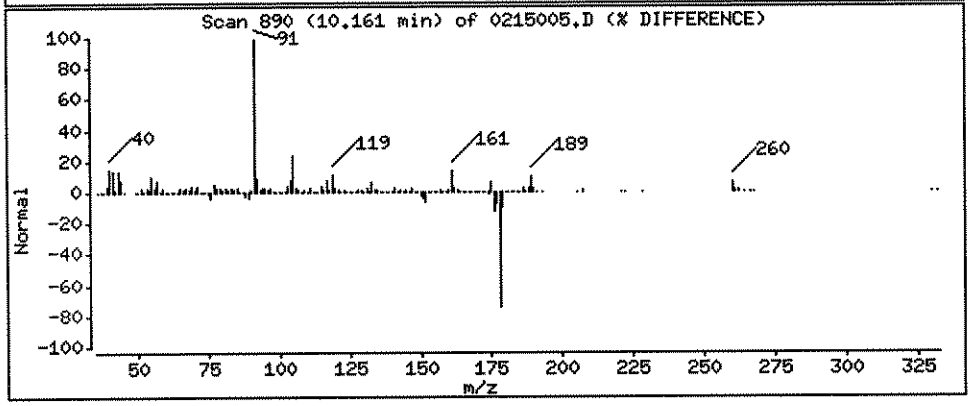
Column phase: fused silica Column diameter: 0.25

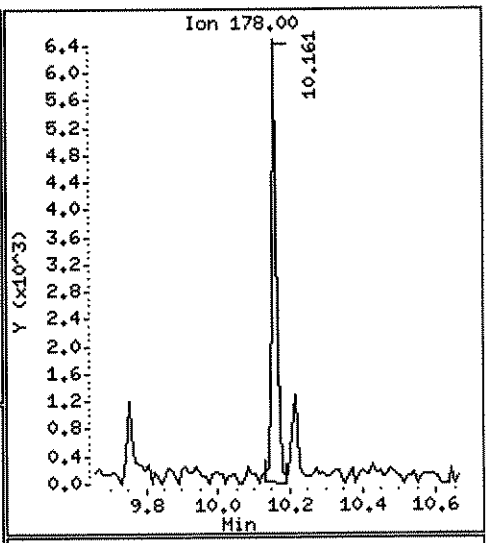
111 Phenanthrene Concentration: 0.06141 ug/L

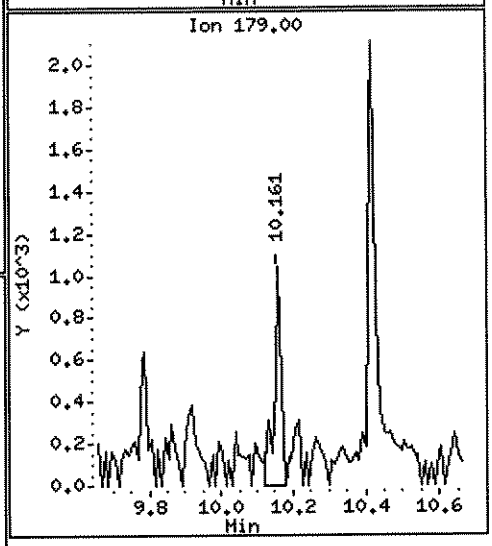












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Date : 28-FEB-2012 21:11

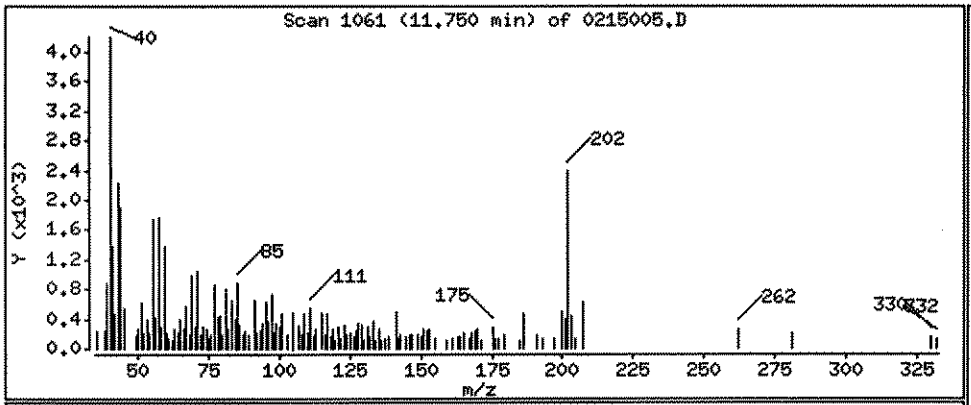
Client ID: FLC-4-RB01-022112 Instrument: bna4.i

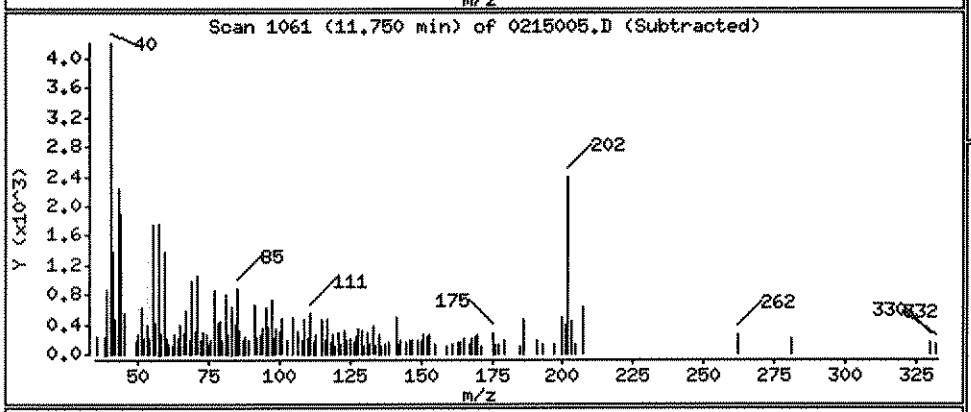
Sample Info: 1202150-05;1;1000;1000;1;ug/L;23-FEB-2012

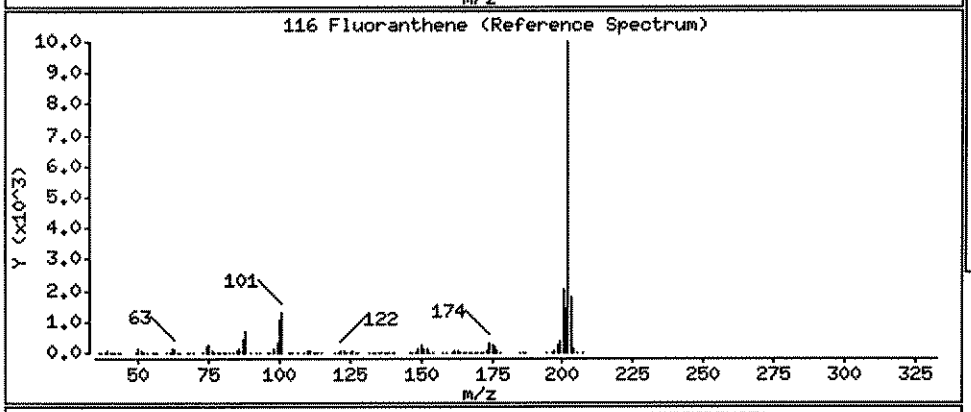
Volume Injected (uL): 1.0 Operator: MEC

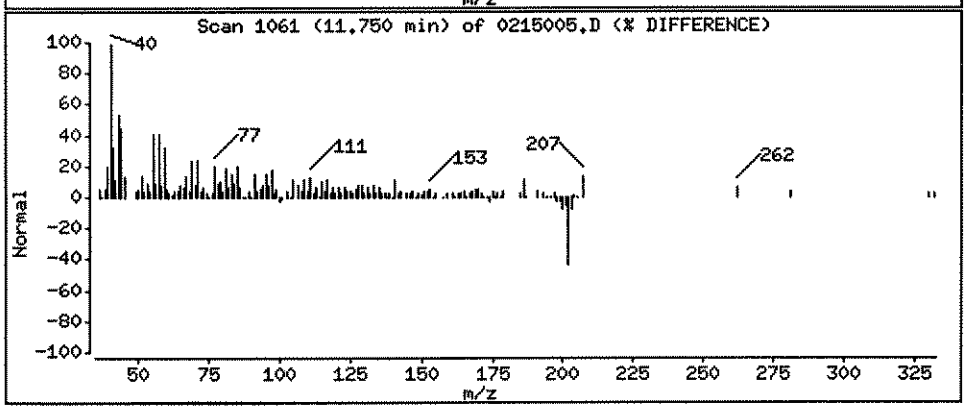
Column phase: fused silica Column diameter: 0.25

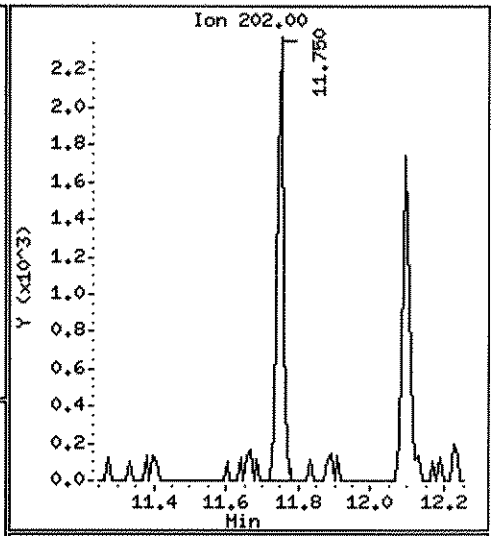
116 Fluoranthene Concentration: 0.02700 ug/L

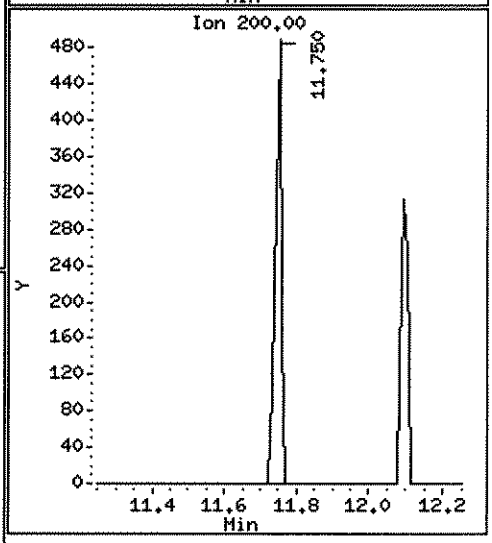












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Report Date: 01-Mar-2012 11:08

Laboratory Name

Data file : \\ELABNSH05\TARGET\chem\bna4.i\022812B4.b\0215014.D
Lab Smp Id: 1202150-14 Client Smp ID: FLC-4-RB02-022112
Inj Date : 28-FEB-2012 21:40 MS Autotune Date: 15-FEB-2012 09:23
Operator : MEC Inst ID: bna4.i
Smp Info : 1202150-14;1;1000;1000;1;ug/L;23-FEB-2012
Misc Info : ;0;;;;2B23003;pahlow.sub;
Comment :
Method : \\ELABNSH05\TARGET\chem\bna4.i\022812B4.b\IXBN4LOW.m
Meth Date : 01-Mar-2012 11:03 mcobb Quant Type: ISTD
Cal Date : 20-FEB-2012 16:29 Cal File: SEQ-CAL1.D
Als bottle: 10
Dil Factor: 1.00000
Integrator: HP RTE Compound Sublist: pahlow.sub
Target Version: 4.04
Processing Host: TARGET09_VM

Concentration Formula: Amt * DF * Uf * Vt* Vi/(Amt * Vi)

Name	Value	Description
DF	1.000	Dilution Factor
Uf	1.000	ng unit correction factor
Vt	1000.000	Volume of final extract (uL)
Vi	1.000	Volume injected (uL)
Amt	1000.000	Volume of initial extraction

RBN 3-1-12

Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS ON-COLUMN (ng/ul)	FINAL (ug/L)
51 Naphthalene	128	6.218	6.218	(0.614)	3442	0.03197	0.03197(a)
$ 74 2-Fluorobiphenyl	172	7.501	7.492	(0.740)	3223928	37.6537	37.65
* 102 Phenanthrene-d10	188	10.132	10.132	(1.000)	106501	1.00000	
111 Phenanthrene	178	10.160	10.160	(1.003)	3772	0.03586	0.03586(a)
116 Fluoranthene	202	11.750	11.750	(1.160)	2588	0.02395	0.02395(a)
* 154 Perylene-d12	264	17.011	17.011	(1.000)	51435	1.00000	
$ 135 Terphenyl-d14	244	12.354	12.345	(1.219)	3942286	53.5617	53.56(A)
138 Benzo(a)anthracene	228	14.195	14.195	(1.401)	1771	0.02521	0.02521(a)
139 Chrysene	228	14.278	14.278	(1.409)	2113	0.03008	0.03008(a)
156 Benzo(b)fluoranthene	252	16.286	16.296	(0.957)	1814	0.02813	0.02813(a)
157 Benzo(k)fluoranthene	252	16.342	16.342	(0.961)	1915	0.03014	0.03014(a)
160 Dibenz(a,h)anthracene	278	18.954	18.936	(1.114)	1204	0.03936	0.03936(a)

mec 3/1/12

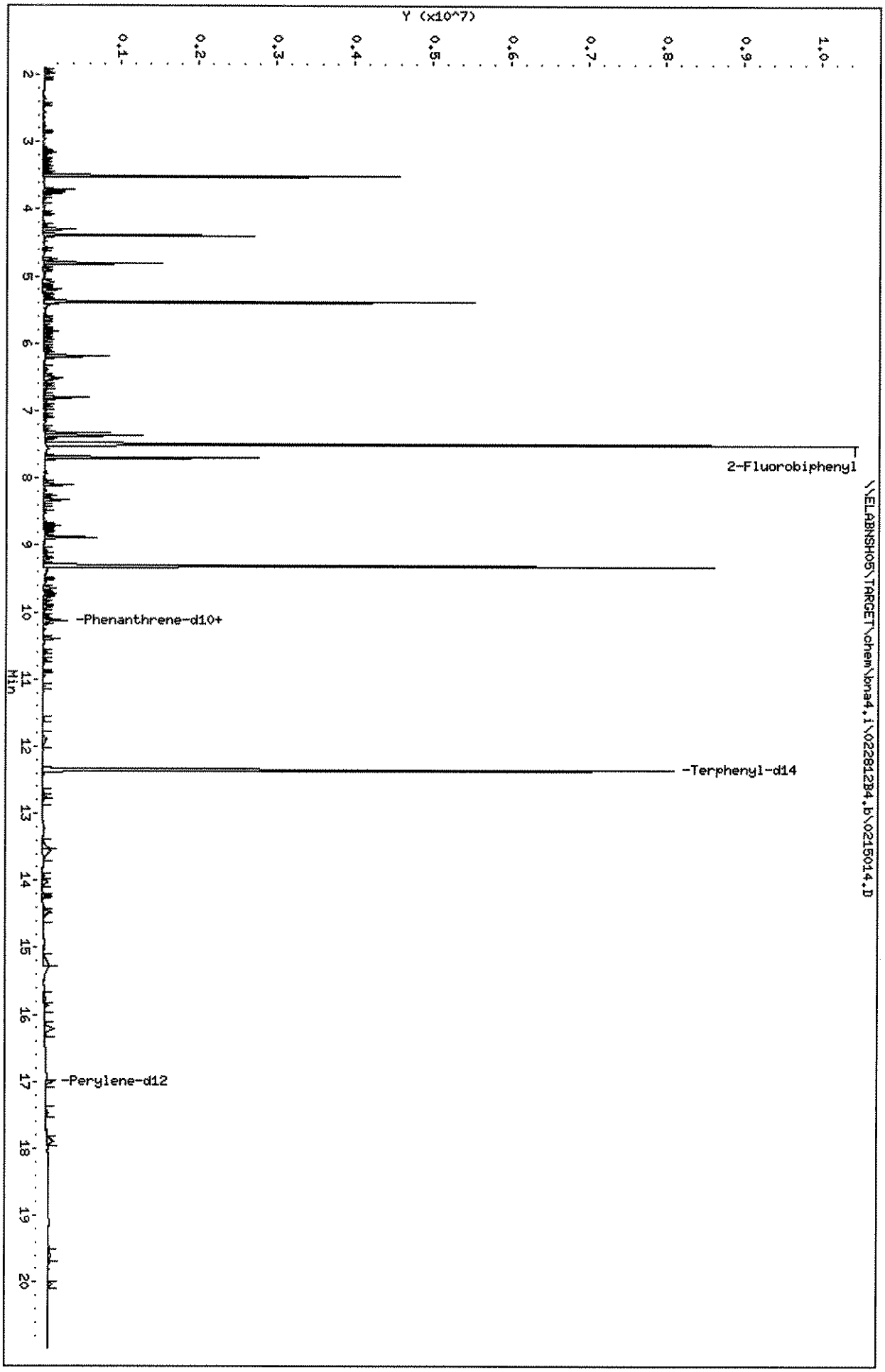
Data File: \\ELABNSH05\TARGET\chem\bna4.i\022812B4.b\0215014.D
Report Date: 01-Mar-2012 11:08

QC Flag Legend

a - Target compound detected but, quantitated amount
    Below Limit Of Quantitation(BLOQ).
A - Target compound detected but, quantitated amount
    exceeded maximum amount.

Data File: \\ELABNSH05\TARGET\chem\bna4.i\022812B4.b\0215014.D
Date : 28-FEB-2012 21:40
Client ID: FLC-4-RB02-022112
Sample Info: 1202150-14;1;1000;1000;1;ug/L;23-FEB-2012
Volume Injected (uL): 1.0
Column phase: fused silica

Instrument: bna4.i
Operator: MEC
Column diameter: 0.25



Data File: \\ELABNSH05\TARGET\chem\bna4.i\022812B4.b\0215014.D

Date : 28-FEB-2012 21:40

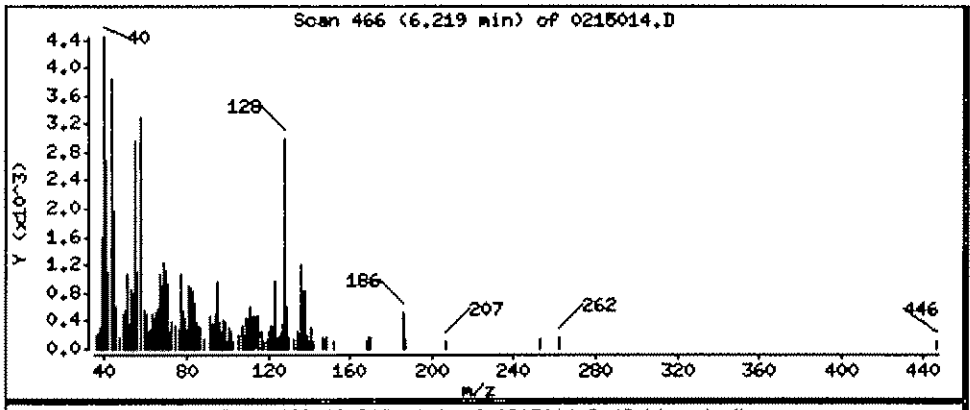
Client ID: FLC-4-RB02-022112 Instrument: bna4.i

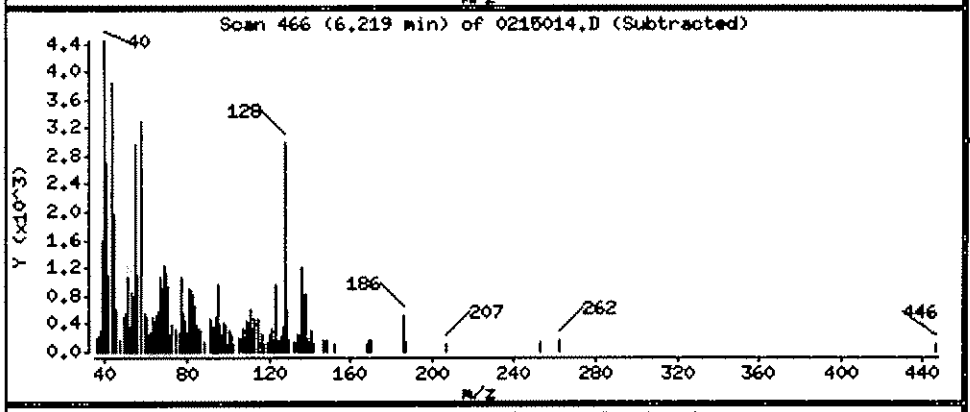
Sample Info: 1202150-14;1;1000;1000;1;ug/L;23-FEB-2012

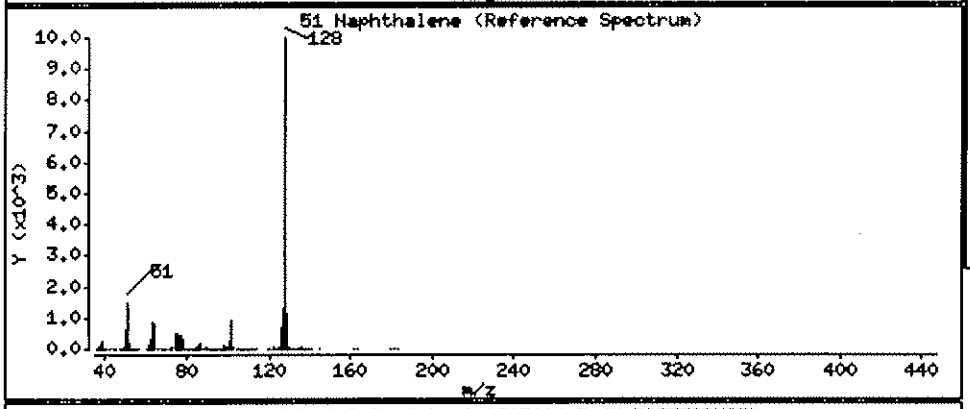
Volume Injected (uL): 1.0 Operator: MEC

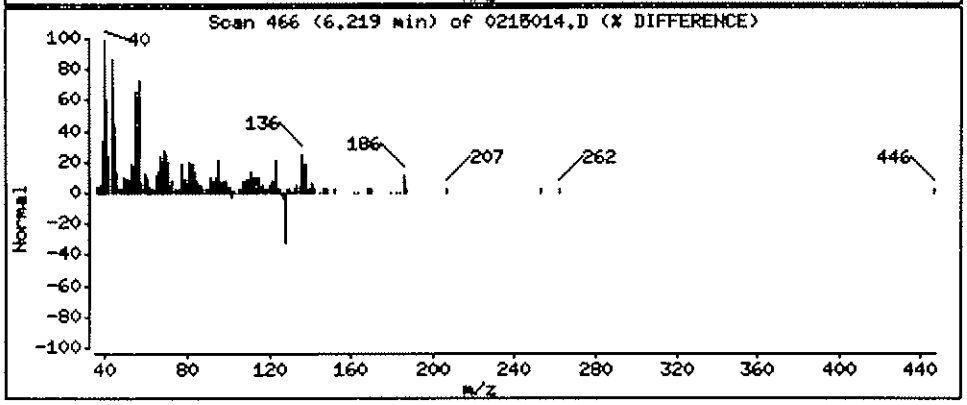
Column phase: fused silica Column diameter: 0.25

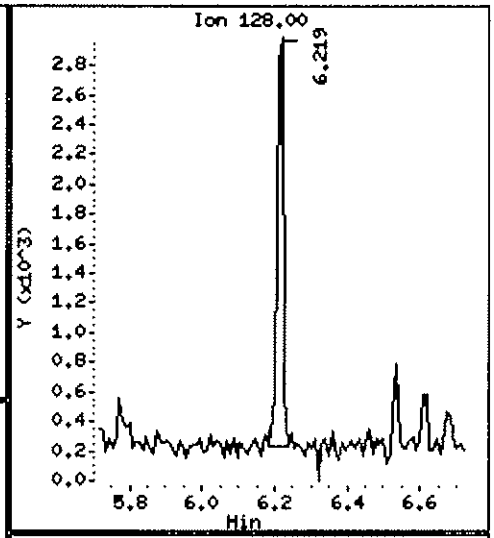
51 Naphthalene Concentration: 0.03197 ug/L

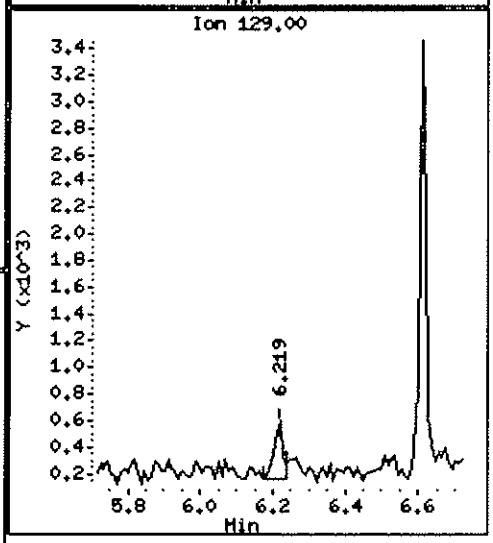












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Date : 28-FEB-2012 21:40

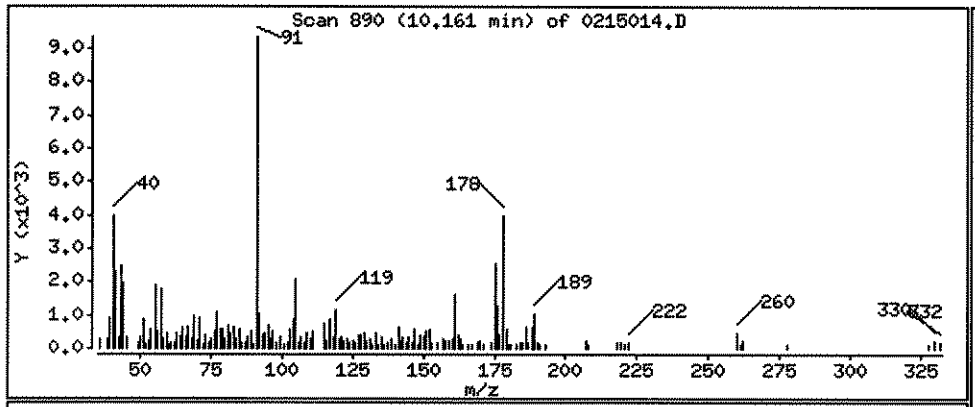
Client ID: FLC-4-RB02-022112 Instrument: bna4.i

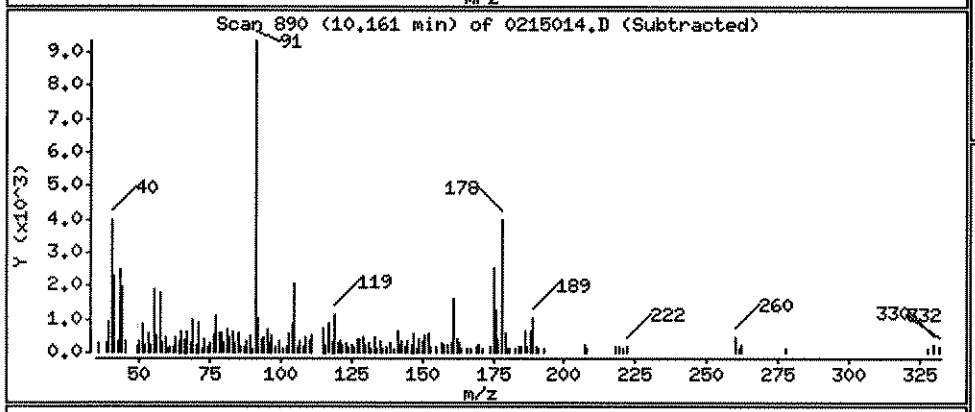
Sample Info: 1202150-14;1;1000;1000;1;ug/L;23-FEB-2012

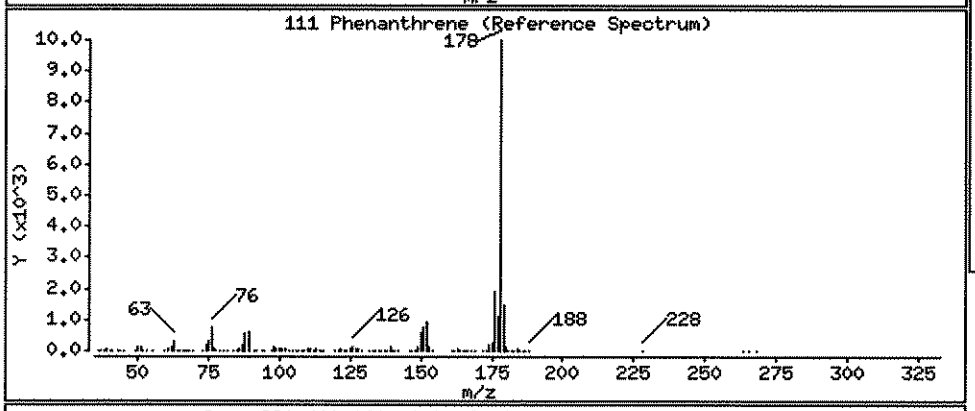
Volume Injected (uL): 1.0 Operator: MEC

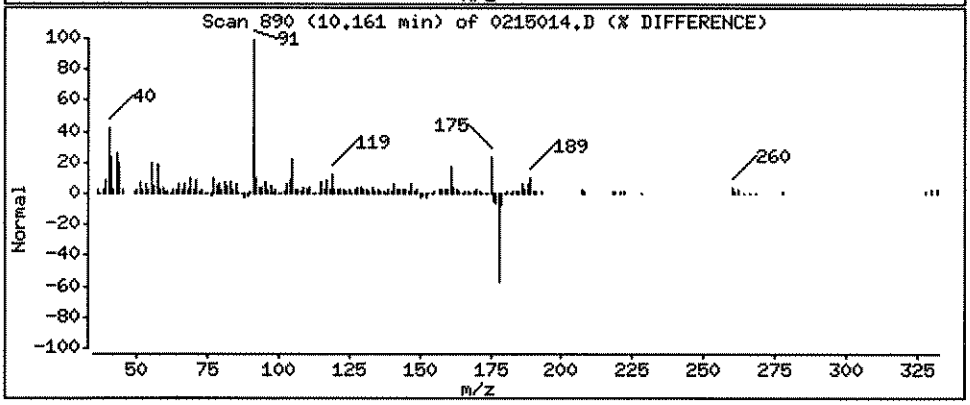
Column phase: fused silica Column diameter: 0.25

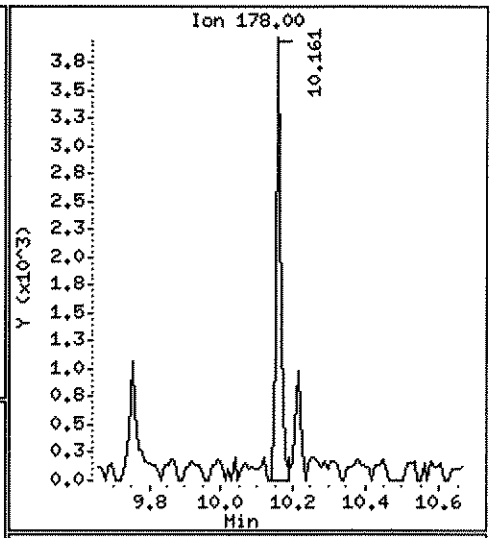
111 Phenanthrene Concentration: 0.03586 ug/L

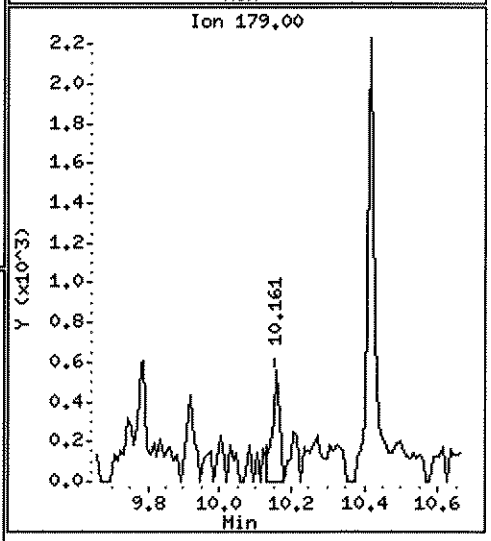












Data File: \\ELABNSH05\TARGET\chem\bna4.i\022812B4.b\0215014.D

Date : 28-FEB-2012 21:40

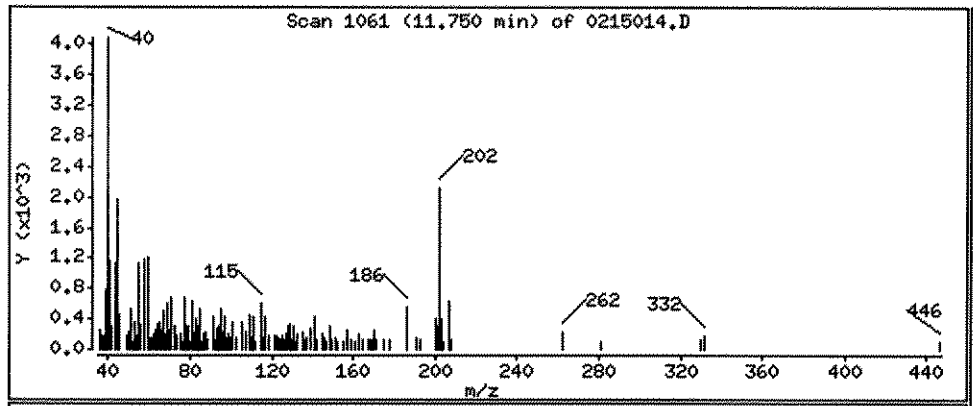
Client ID: FLC-4-RB02-022112 Instrument: bna4.i

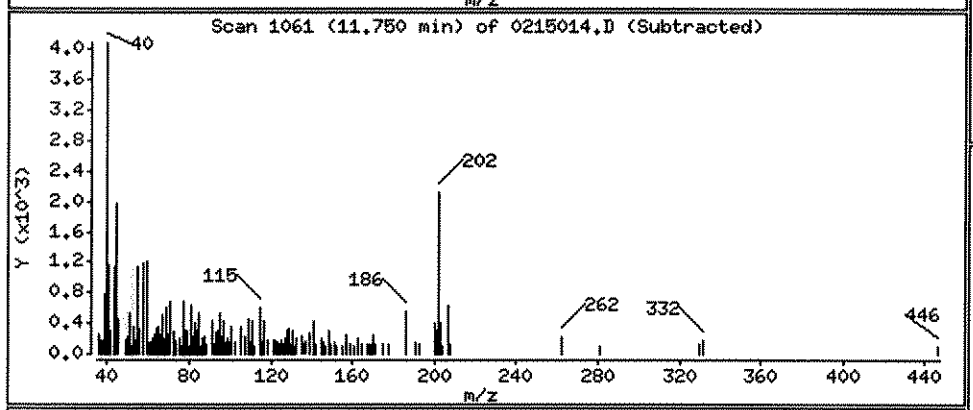
Sample Info: 1202150-14;1;1000;1000;1;ug/L;23-FEB-2012

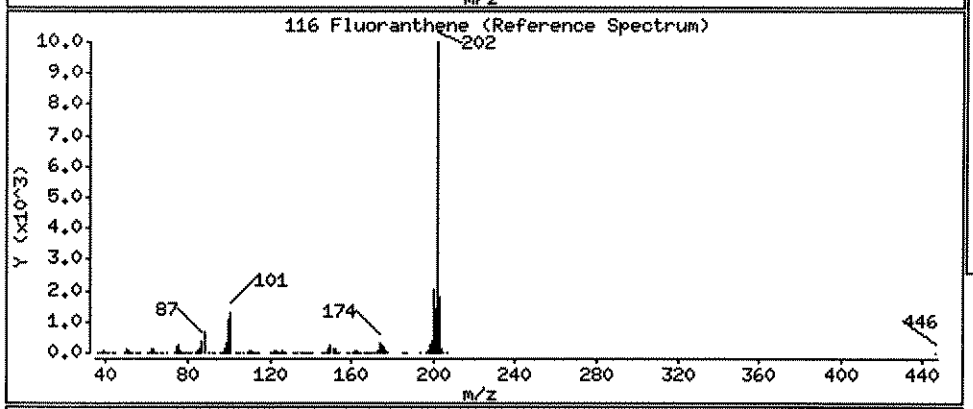
Volume Injected (uL): 1.0 Operator: MEC

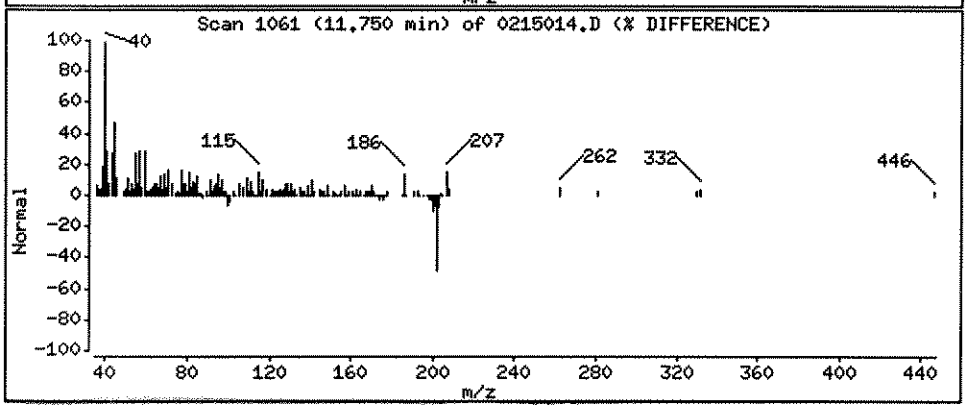
Column phase: fused silica Column diameter: 0.25

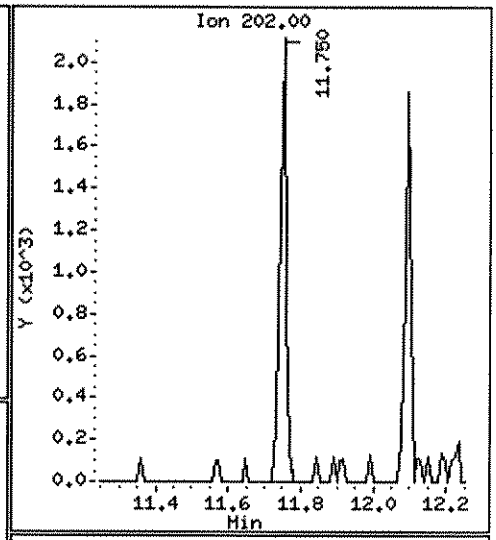
116 Fluoranthene Concentration: 0.02395 ug/L

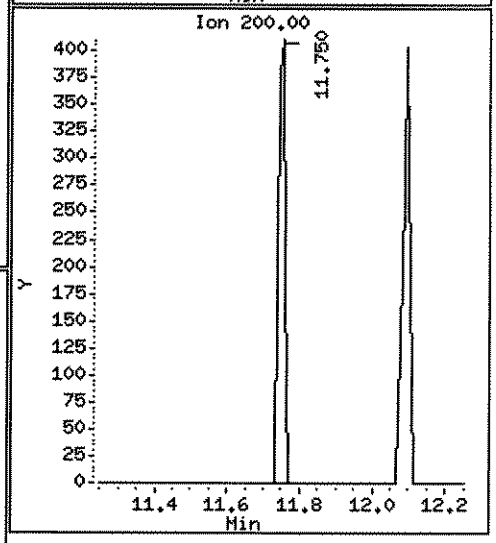












Data File: \\ELABNSH05\TARGET\chem\bna4.i\022812B4.b\0215014.D

Date : 28-FEB-2012 21:40

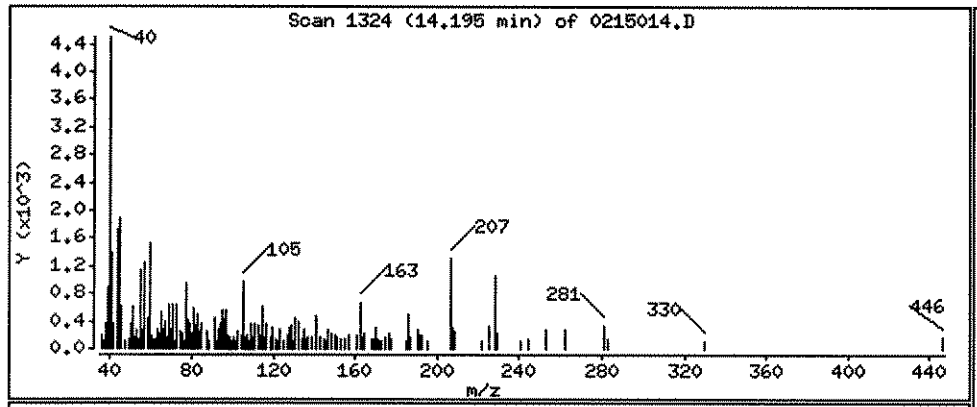
Client ID: FLC-4-RB02-022112 Instrument: bna4.i

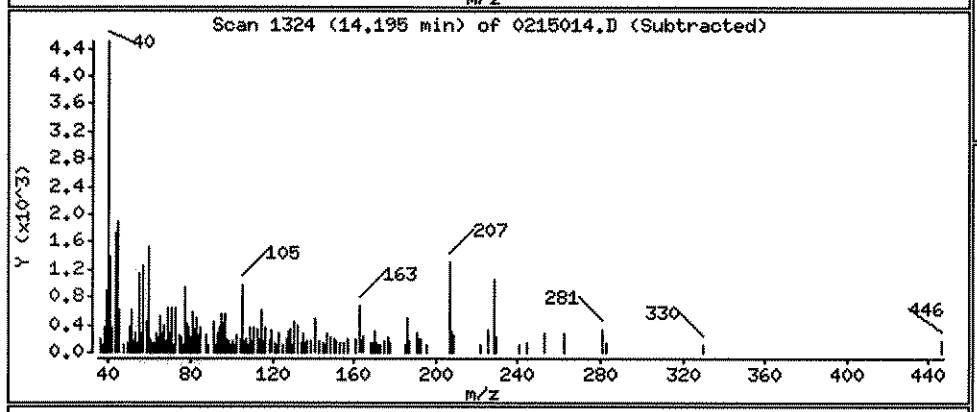
Sample Info: 1202150-14;1;1000;1000;1;ug/L;23-FEB-2012

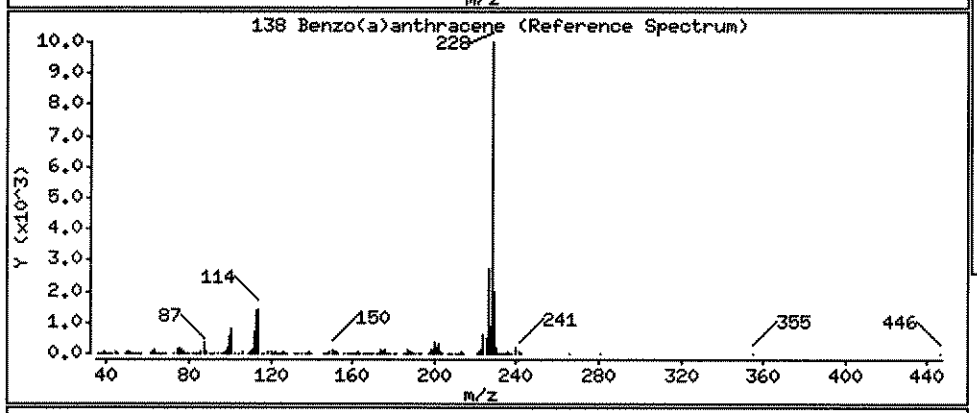
Volume Injected (uL): 1.0 Operator: MEC

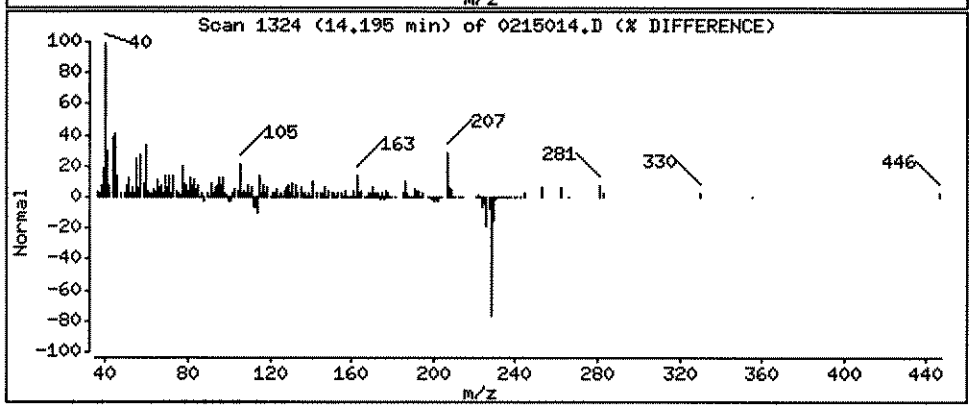
Column phase: fused silica Column diameter: 0.25

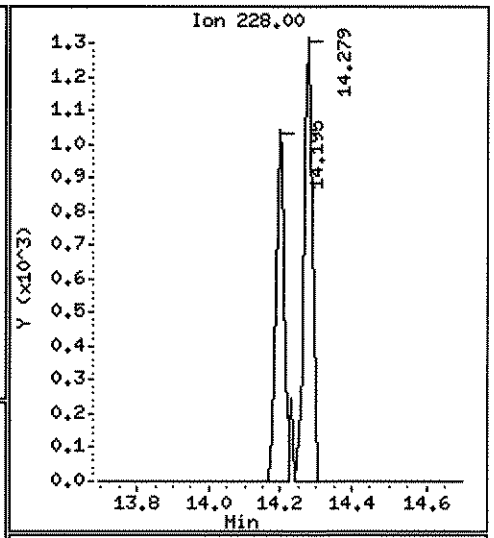
138 Benzo(a)anthracene Concentration: 0.02521 ug/L

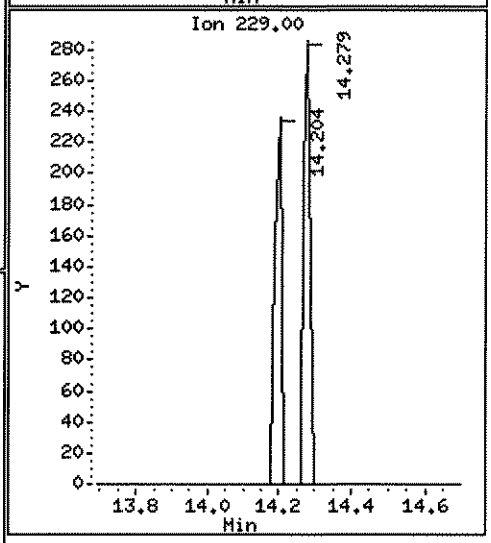












Data File: \\ELABNSH05\TARGET\chem\bna4.i\022812B4.b\0215014.D

Date : 28-FEB-2012 21:40

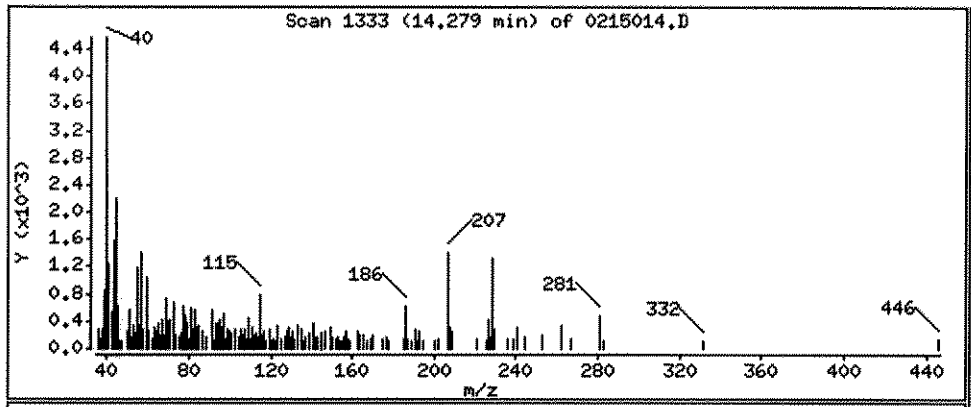
Client ID: FLC-4-RB02-022112 Instrument: bna4.i

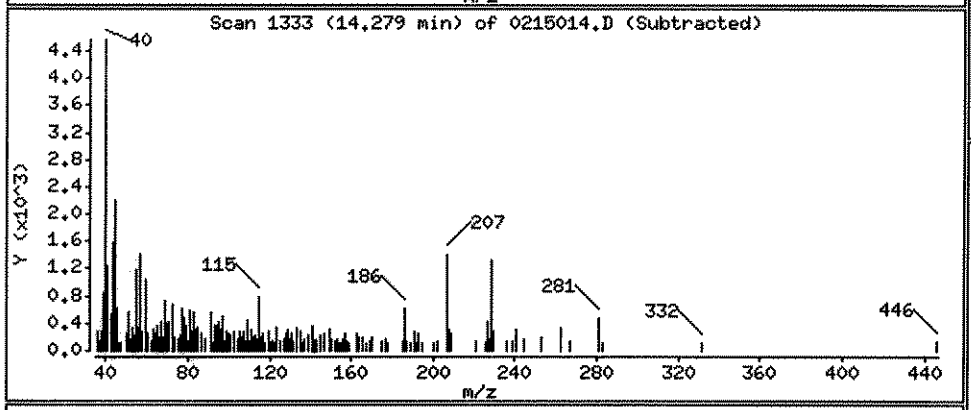
Sample Info: 1202150-14;1;1000;1000;1;ug/L;23-FEB-2012

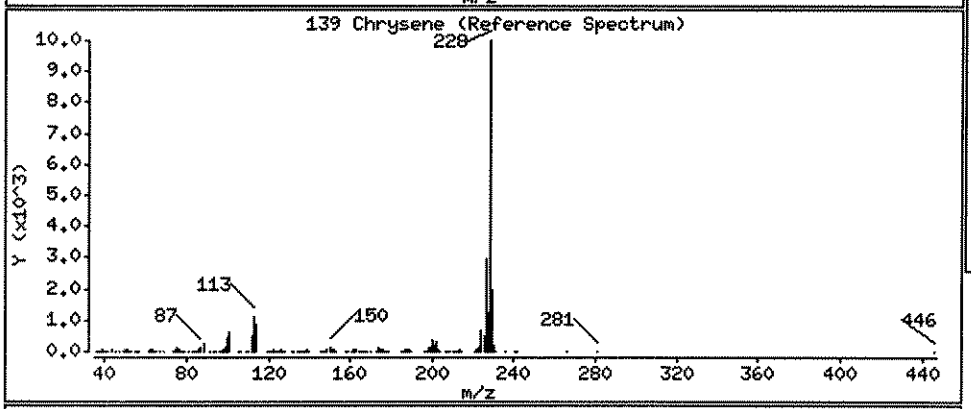
Volume Injected (uL): 1.0 Operator: MEC

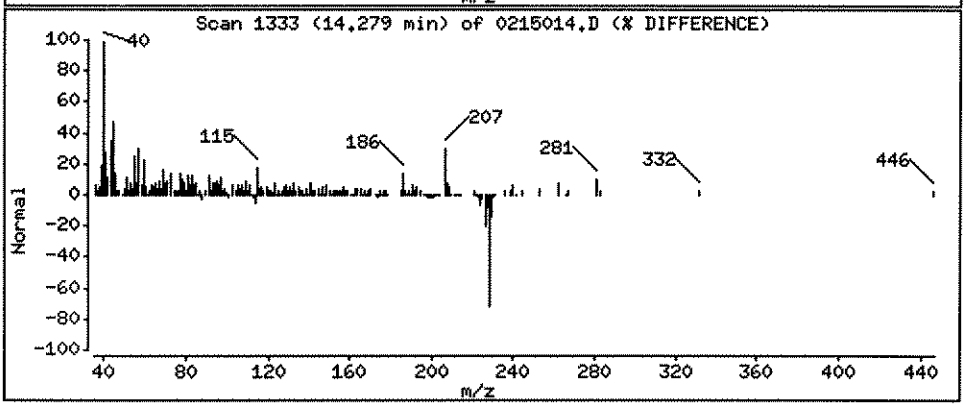
Column phase: fused silica Column diameter: 0.25

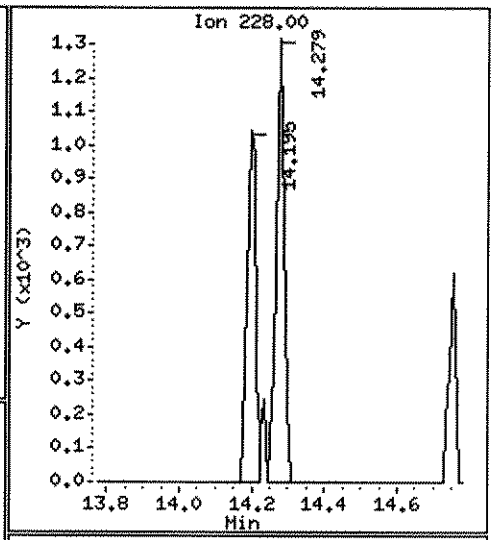
139 Chrysene Concentration: 0.03008 ug/L

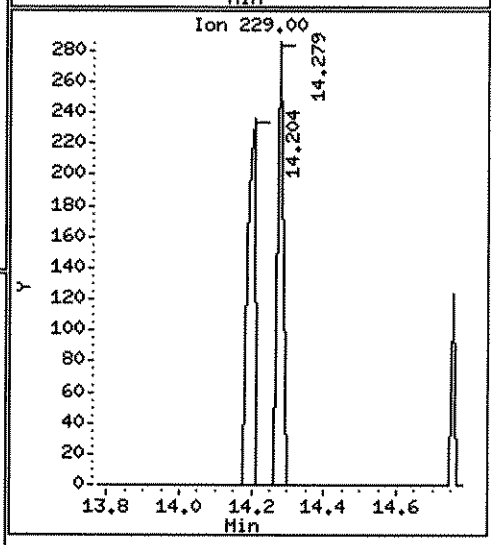












Data File: \\ELABNSH05\TARGET\chem\bna4.i\022812B4.b\0215014.D

Date : 28-FEB-2012 21:40

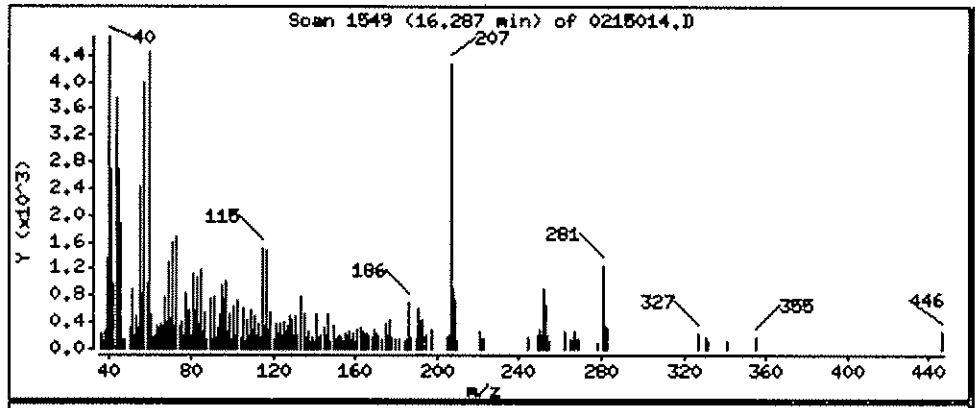
Client ID: FLC-4-RB02-022112 Instrument: bna4.i

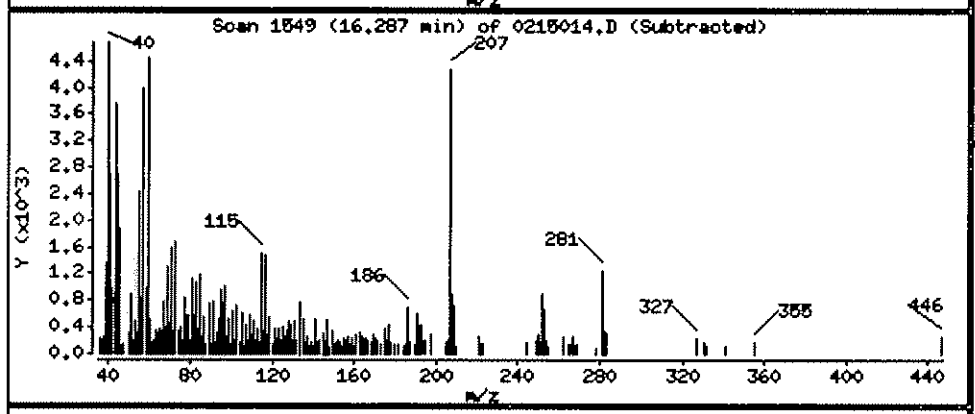
Sample Info: 1202150-14;1;1000;1000;1;ug/L;23-FEB-2012

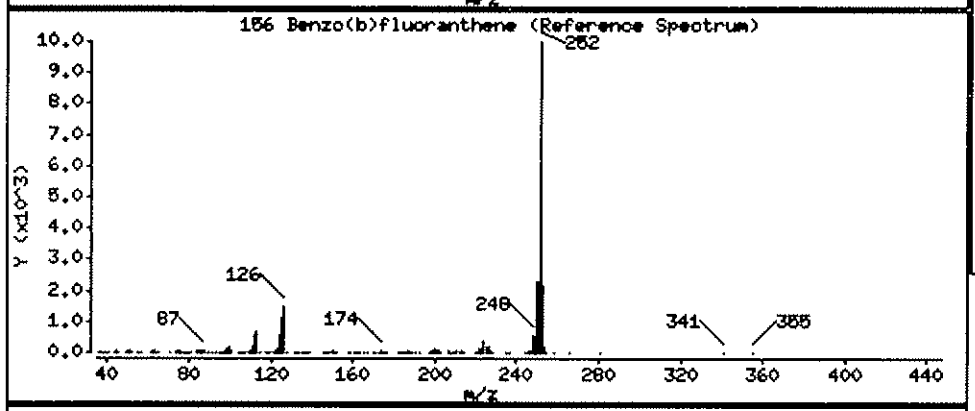
Volume Injected (uL): 1.0 Operator: MEC

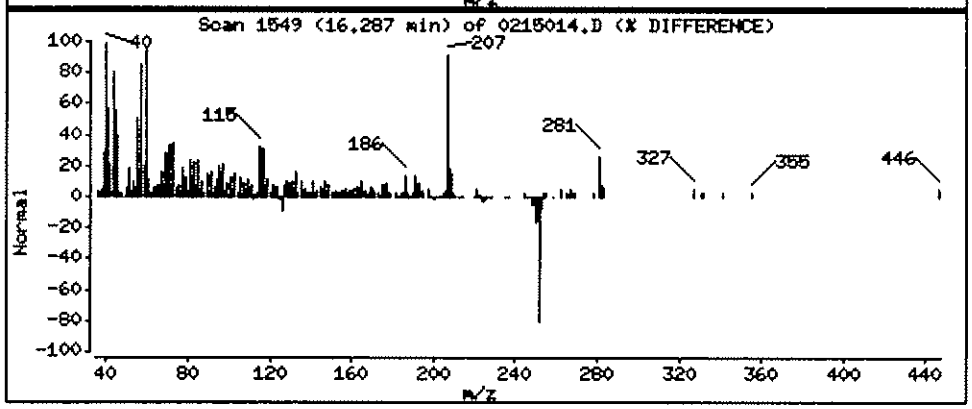
Column phase: fused silica Column diameter: 0.25

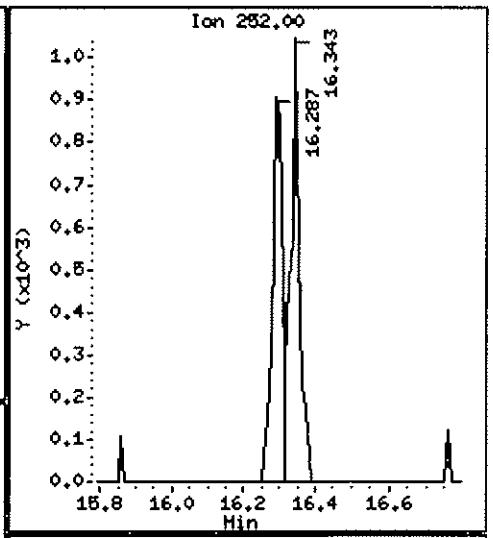
156 Benzo(b)fluoranthene Concentration: 0.02813 ug/L

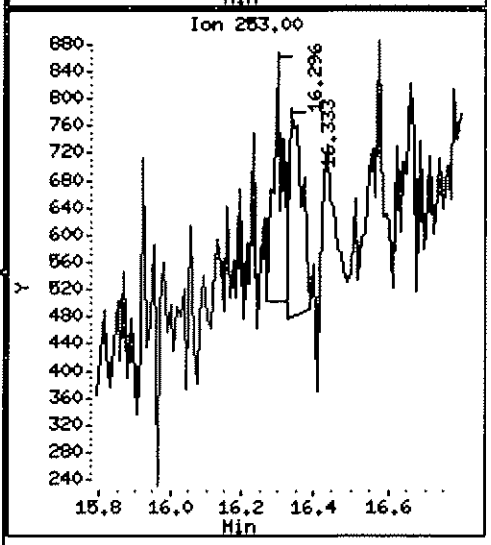












Data File: \\ELABNSH05\TARGET\chem\bna4.i\022812B4.b\0215014.D

Date : 28-FEB-2012 21:40

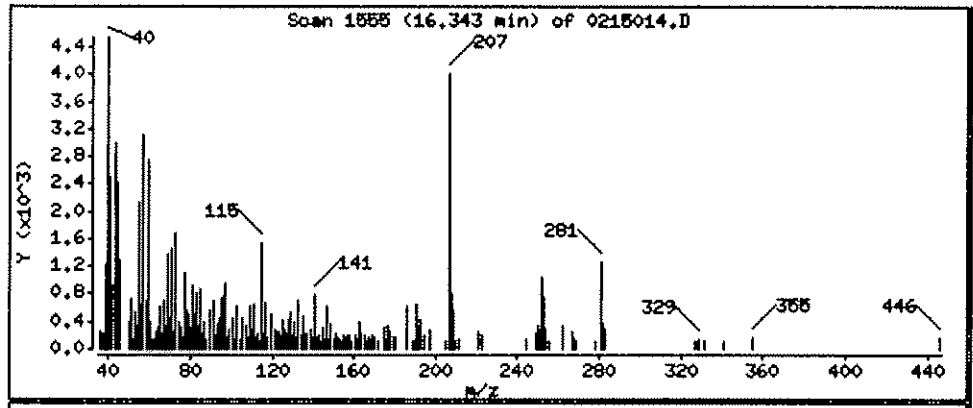
Client ID: FLC-4-RB02-022112 Instrument: bna4.i

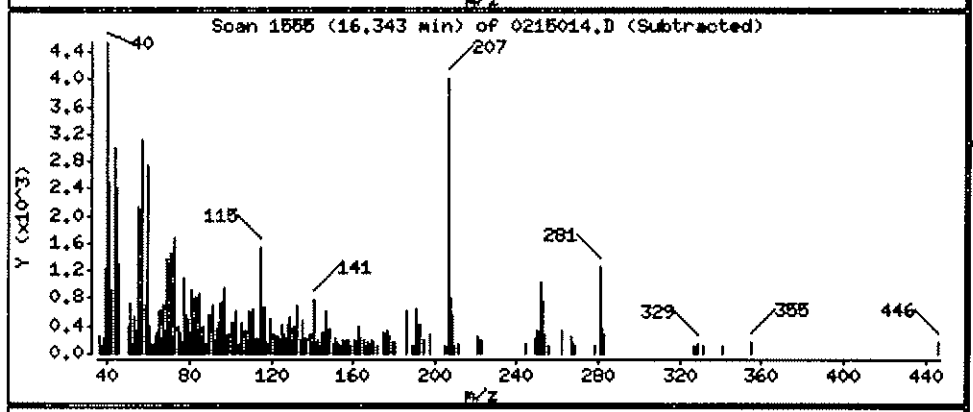
Sample Info: 1202150-14;1;1000;1000;1;ug/L;23-FEB-2012

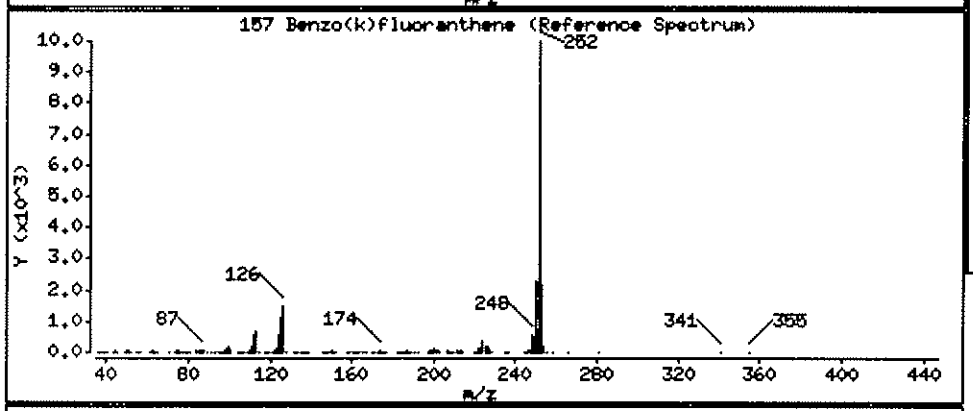
Volume Injected (uL): 1.0 Operator: HEC

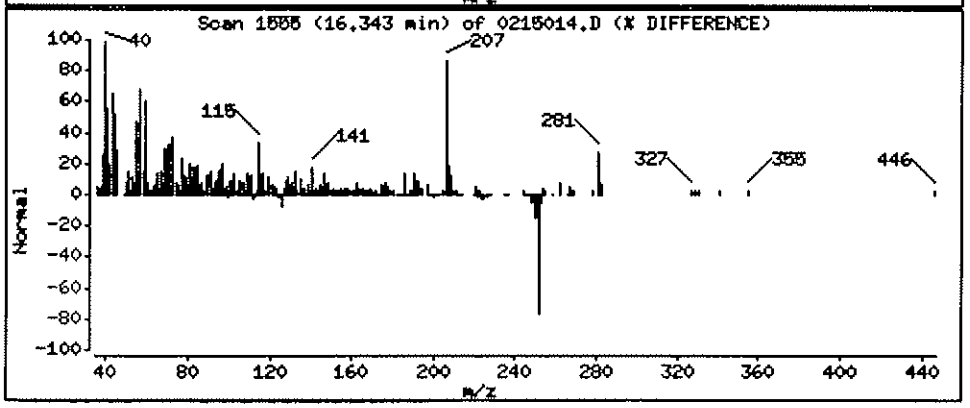
Column phase: fused silica Column diameter: 0.25

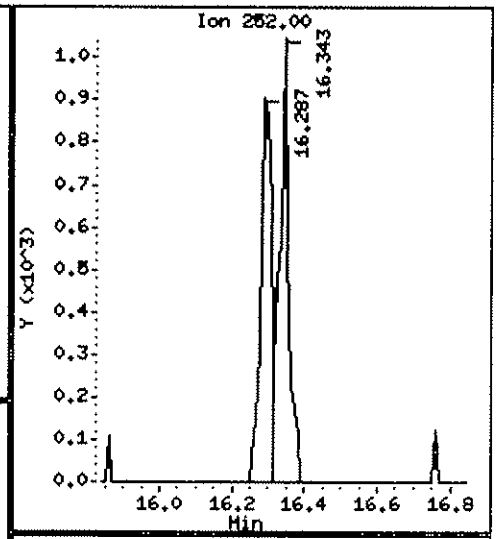
157 Benzo(k)fluoranthene Concentration: 0.03014 ug/L

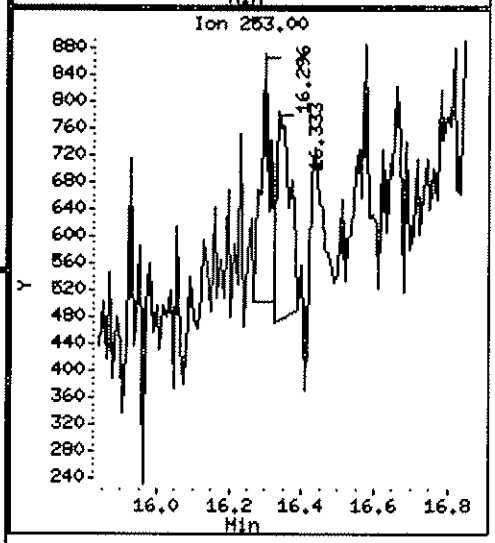












Data File: \\ELABNSH05\TARGET\chem\bna4.i\022812B4.b\0215014.D

Date : 28-FEB-2012 21:40

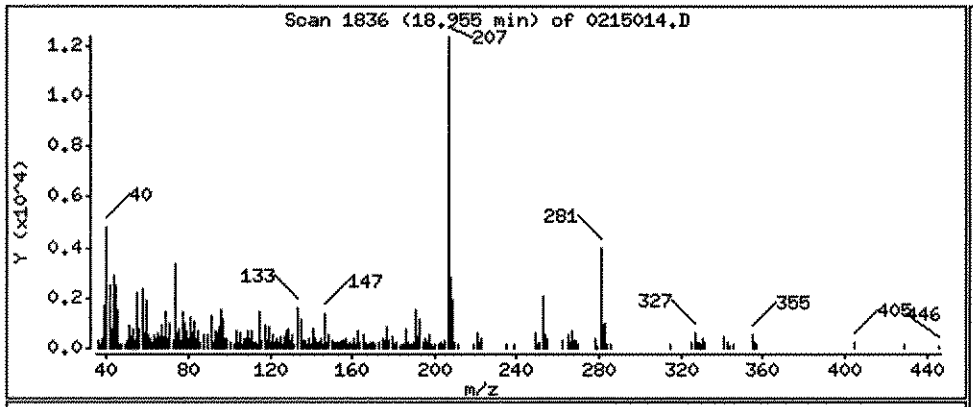
Client ID: FLC-4-RB02-022112 Instrument: bna4.i

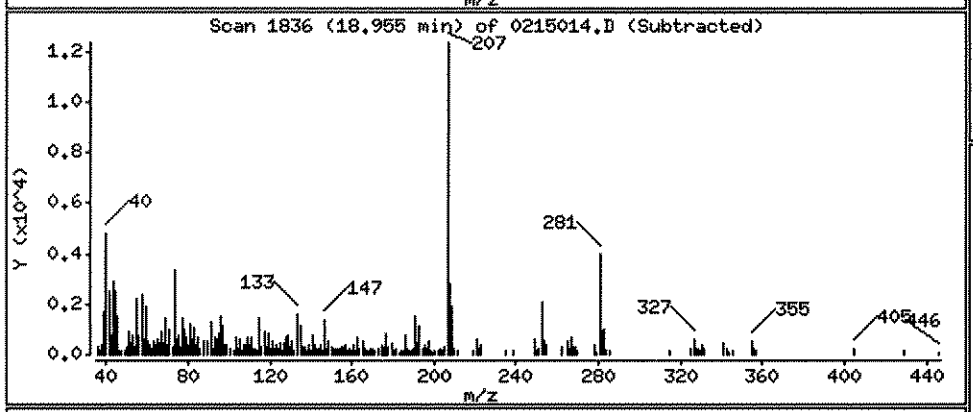
Sample Info: 1202150-14;1;1000;1000;1;ug/L;23-FEB-2012

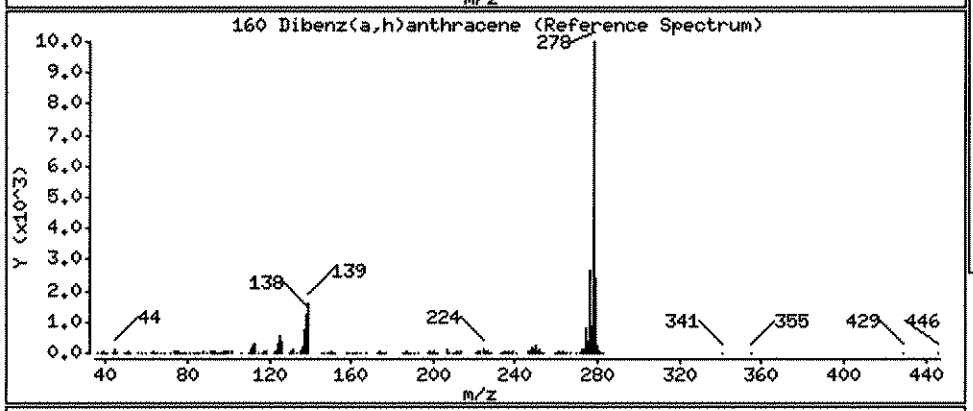
Volume Injected (uL): 1.0 Operator: MEC

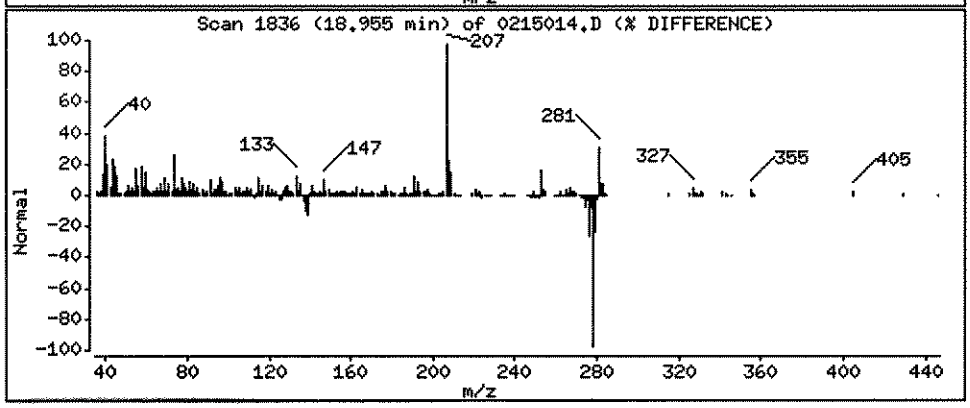
Column phase: fused silica Column diameter: 0.25

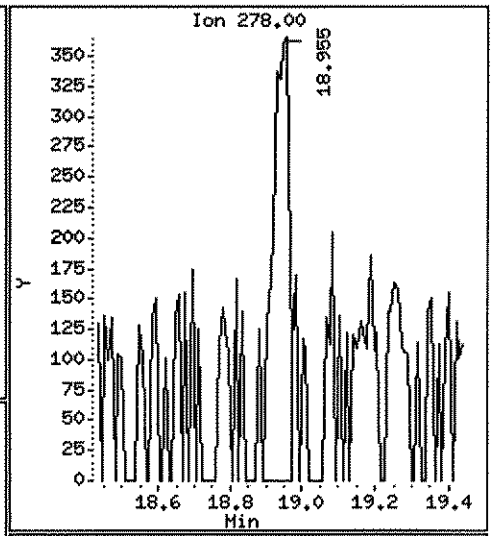
160 Dibenz(a,h)anthracene Concentration: 0.03936 ug/L

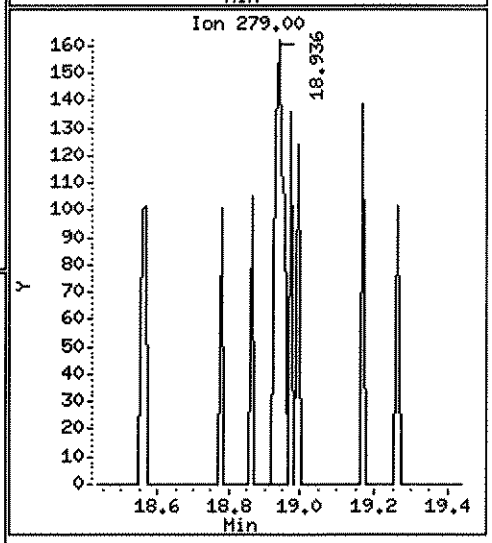












Data File: \\ELABNSH05\TARGET\chem\bna4.i\022812B4.b\B24004L1.D
Report Date: 01-Mar-2012 11:09

Laboratory Name

Data file : \\ELABNSH05\TARGET\chem\bna4.i\022812B4.b\B24004L1.D
Lab Smp Id: 2B24004-BS2 Client Smp ID: 2B24004-BS2
Inj Date : 29-FEB-2012 00:31 MS Autotune Date: 15-FEB-2012 09:23
Operator : MEC Inst ID: bna4.i
Smp Info : 2B24004-BS2;1;15;1000;1;ug/Kg;24-FEB-2012
Misc Info : ;3;LCS;;;2B24004;pahlow.sub;
Comment :
Method : \\ELABNSH05\TARGET\chem\bna4.i\022812B4.b\IXBN4LOW.m
Meth Date : 01-Mar-2012 11:03 mcobb Quant Type: ISTD
Cal Date : 20-FEB-2012 16:29 Cal File: SEQ-CAL1.D
Als bottle: 16 QC Sample: LCS
Dil Factor: 1.00000
Integrator: HP RTE Compound Sublist: pahlow.sub
Target Version: 4.04
Processing Host: TARGET09_VM

Concentration Formula: Amt * DF * Uf * Vt*Vi/(Amt * Vi * (Solids/100))

Name	Value	Description
DF	1.000	Dilution Factor
Uf	1.000	ng unit correction factor
Vt	1000.000	Volume of final extract (uL)(1000 low, 2
Amt	15.000	Mass of initial extraction
Vi	1.000	Volume injected (uL)
Solids	100.000	Percent Solids

3-1-12

Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS ON-COLUMN (ng/ul)	FINAL (ug/Kg)
51 Naphthalene	128	6.209	6.218	(0.613)	125927	0.96703	64.47
55 2-Methylnaphthalene	142	7.027	7.036	(0.694)	83187	0.98046	65.36
56 1-Methylnaphthalene	142	7.167	7.167	(0.707)	80098	0.97462	64.97
$ 74 2-Fluorobiphenyl	172	7.501	7.492	(0.740)	4380171	42.2941	2820
77 Acenaphthylene	152	8.143	8.143	(0.804)	127920	1.04752	69.83
80 Acenaphthene	153	8.366	8.366	(0.826)	82670	1.00709	67.14
88 Fluorene	166	8.979	8.979	(0.886)	92605	1.03848	69.23
* 102 Phenanthrene-d10	188	10.132	10.132	(1.000)	128821	1.00000	
111 Phenanthrene	178	10.160	10.160	(1.003)	135850	1.06785	71.19
112 Anthracene	178	10.216	10.216	(1.008)	131327	1.07070	71.38(R)
116 Fluoranthene	202	11.750	11.750	(1.160)	141316	1.08115	72.08
134 Pyrene	202	12.094	12.094	(1.194)	147789	1.09764	73.18
* 154 Perylene-d12	264	17.011	17.011	(1.000)	67098	1.00000	

MEC
3/1/12

Data File: \\ELABNSH05\TARGET\chem\bna4.i\022812B4.b\B24004L1.D
Report Date: 01-Mar-2012 11:09

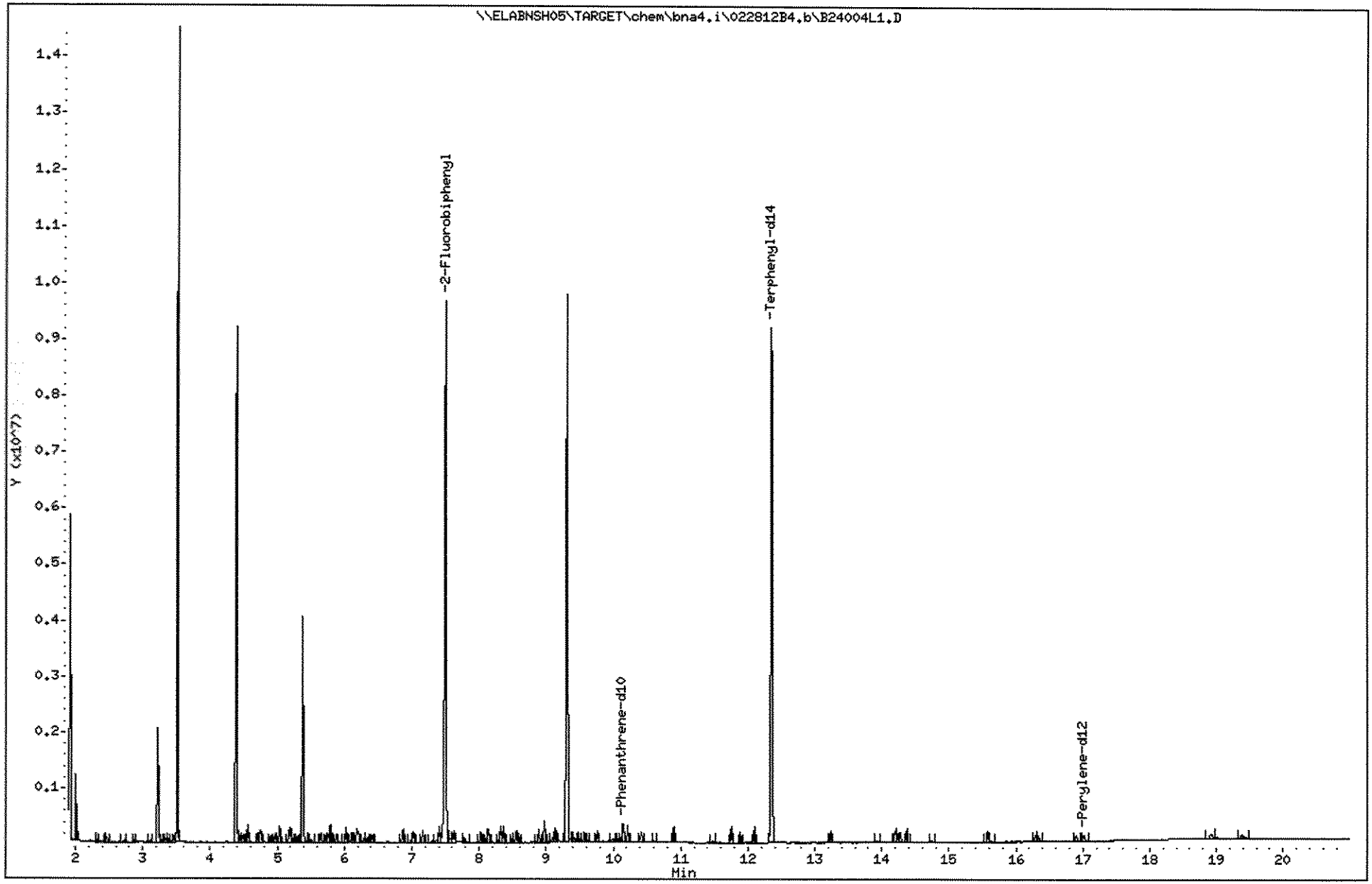
Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS ON-COLUMN (ng/ul)	FINAL (ug/Kg)
$ 135 Terphenyl-d14	244	12.354	12.345	(1.219)	4480796	50.3301	3355(A)
138 Benzo(a)anthracene	228	14.195	14.195	(1.401)	103637	1.21946	81.30(R)
139 Chrysene	228	14.278	14.278	(1.409)	99463	1.17073	78.05(R)
156 Benzo(b)fluoranthene	252	16.296	16.296	(0.958)	82151	0.97644	65.10
157 Benzo(k)fluoranthene	252	16.342	16.342	(0.961)	89280	1.07700	71.80
158 Benzo(a)pyrene	252	16.909	16.909	(0.994)	65815	1.04357	69.57
159 Indeno(1,2,3-cd)pyrene	276	18.908	18.908	(1.111)	58449	1.16630	77.75
160 Dibenz(a,h)anthracene	278	18.936	18.936	(1.113)	44980	1.12730	75.15
161 Benzo(g,h,i)perylene	276	19.391	19.391	(1.140)	50910	1.12775	75.18

QC Flag Legend

A - Target compound detected but, quantitated amount exceeded maximum amount.
R - Spike/Surrogate failed recovery limits.

Data File: \\ELABNSH05\TARGET\chem\bna4.i\022812B4.b\B24004L1.D
Date : 29-FEB-2012 00:31
Client ID: 2B24004-BS2
Sample Info: 2B24004-BS2;1;15;1000;1;ug/Kg;24-FEB-2012
Volume Injected (uL): 1.0
Column phase: fused silica

Instrument: bna4.i
Operator: MEC
Column diameter: 0.25



397

1202150

Data File: \\ELABNSH05\TARGET\chem\bna4.i\022812B4.b\B24004B1.D
Report Date: 01-Mar-2012 11:09

Laboratory Name

Data file : \\ELABNSH05\TARGET\chem\bna4.i\022812B4.b\B24004B1.D
Lab Smp Id: 2B24004-BLK2 Client Smp ID: 2B24004-BLK2
Inj Date : 29-FEB-2012 00:59 MS Autotune Date: 15-FEB-2012 09:23
Operator : MEC Inst ID: bna4.i
Smp Info : 2B24004-BLK2;1;15;1000;1;ug/Kg;24-FEB-2012
Misc Info : ;3;BLANK;;;2B24004;pahlow.sub;
Comment :
Method : \\ELABNSH05\TARGET\chem\bna4.i\022812B4.b\IXBN4LOW.m
Meth Date : 01-Mar-2012 11:03 mcobb Quant Type: ISTD
Cal Date : 20-FEB-2012 16:29 Cal File: SEQ-CAL1.D
Als bottle: 17 QC Sample: BLANK
Dil Factor: 1.00000
Integrator: HP RTE Compound Sublist: pahlow.sub
Target Version: 4.04
Processing Host: TARGET09_VM

Concentration Formula: Amt * DF * Uf * Vt*Vi/(Amt * Vi * (Solids/100))

Name	Value	Description
DF	1.000	Dilution Factor
Uf	1.000	ng unit correction factor
Vt	1000.000	Volume of final extract (uL)(1000 low, 2
Amt	15.000	Mass of initial extraction
Vi	1.000	Volume injected (uL)
Solids	100.000	Percent Solids

Rgd 3-1-12

Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS ON-COLUMN (ng/ul)	FINAL (ug/Kg)
$ 74 2-Fluorobiphenyl	172	7.501	7.492	(0.740)	3718755	42.7383	2849
* 102 Phenanthrene-d10	188	10.132	10.132	(1.000)	108232	1.00000	
111 Phenanthrene	178	10.160	10.160	(1.003)	2270	0.02124	1.416(a)
* 154 Perylene-d12	264	17.012	17.011	(1.000)	35374	1.00000	
$ 135 Terphenyl-d14	244	12.354	12.345	(1.219)	3749867	50.1326	3342(A)

QC Flag Legend

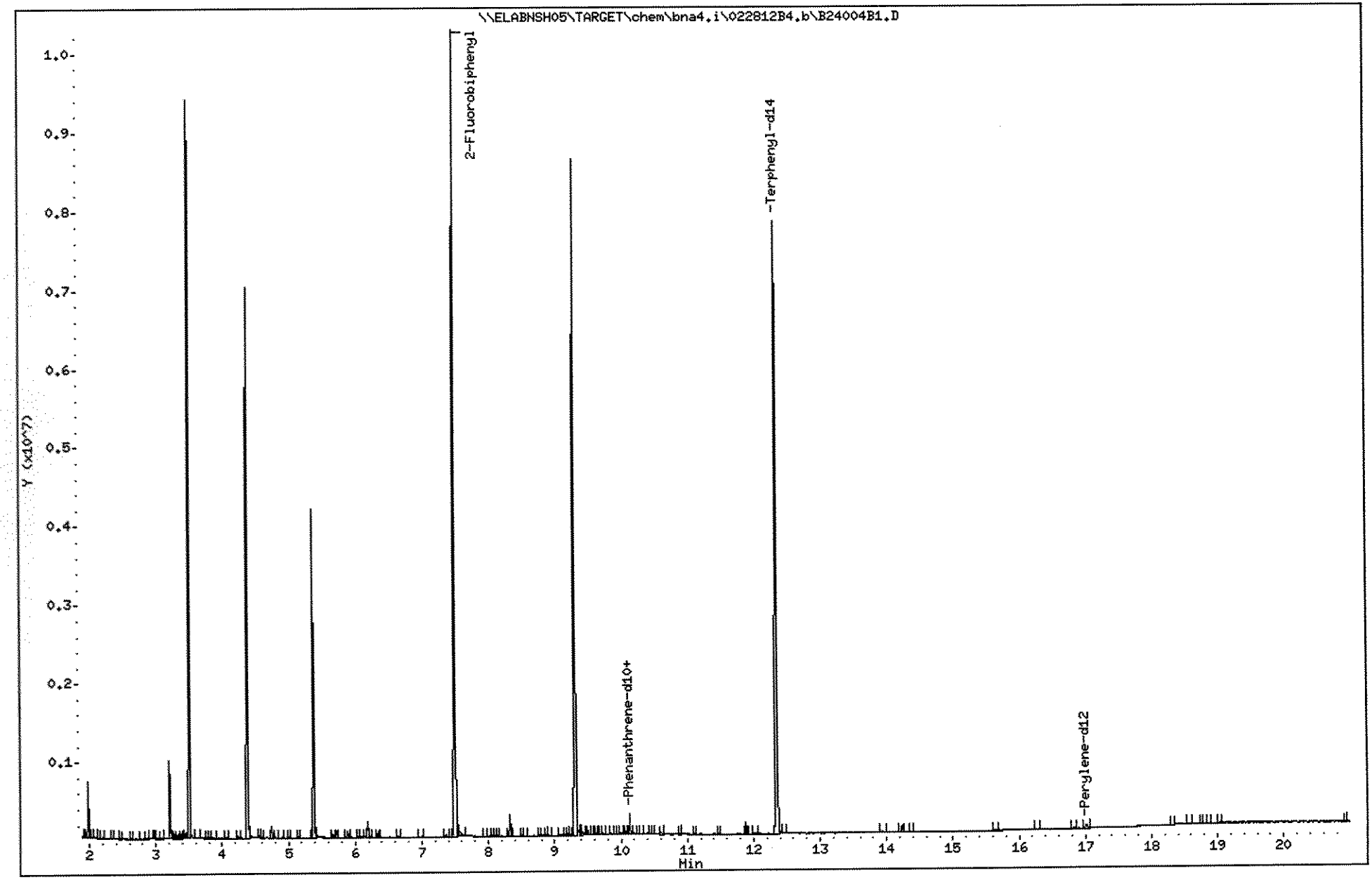
a - Target compound detected but, quantitated amount Below Limit Of Quantitation(BLOQ).
A - Target compound detected but, quantitated amount exceeded maximum amount.

ME
3/1/12

Data File: \\ELABNSH05\TARGET\chem\bna4.i\022812B4.b\B24004B1.D
Date : 29-FEB-2012 00:59
Client ID: 2B24004-BLK2
Sample Info: 2B24004-BLK2;1;15;1000;1;ug/Kg;24-FEB-2012
Volume Injected (uL): 1.0
Column phase: fused silica

Instrument: bna4.i

Operator: MEC
Column diameter: 0.25



Data File: \\ELABNSH05\TARGET\chem\bna4.i\022812B4.b\B24004B1.D

Date : 29-FEB-2012 00:59

Client ID: 2B24004-BLK2

Instrument: bna4.i

Sample Info: 2B24004-BLK2;1;15;1000;1;ug/Kg;24-FEB-2012

Volume Injected (uL): 1.0

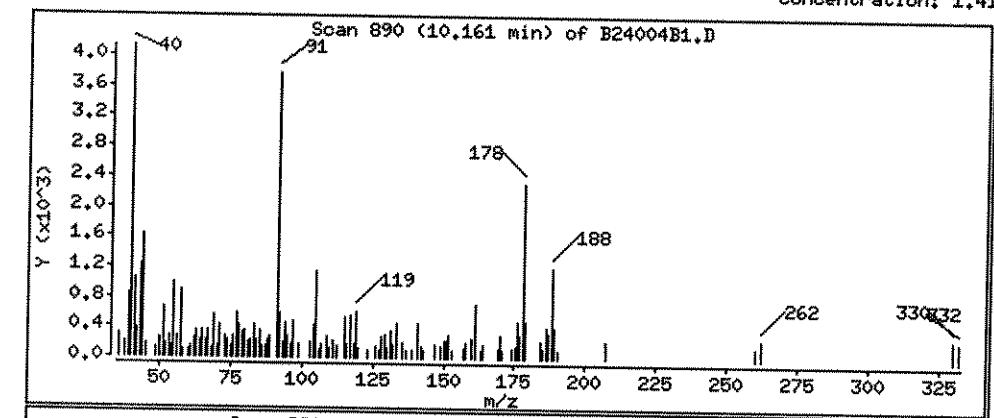
Operator: MEC

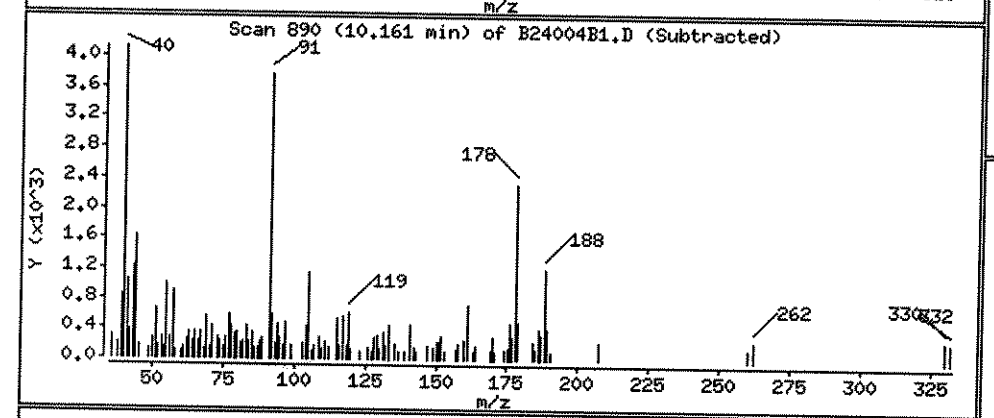
Column phase: fused silica

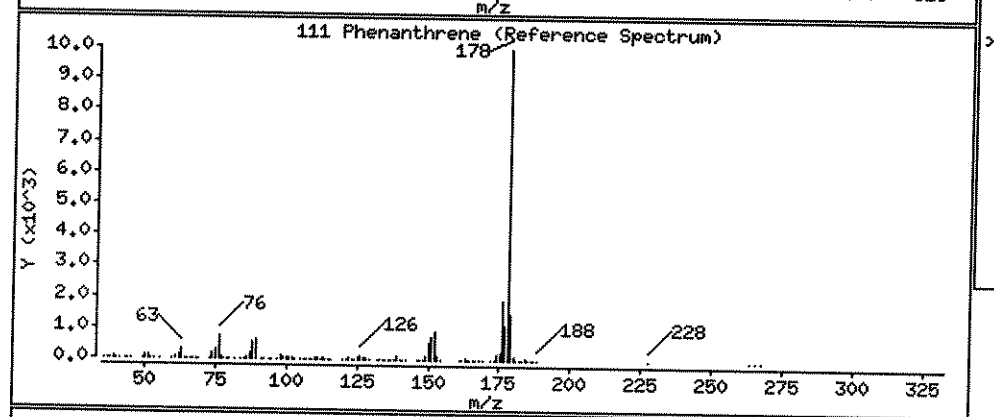
Column diameter: 0.25

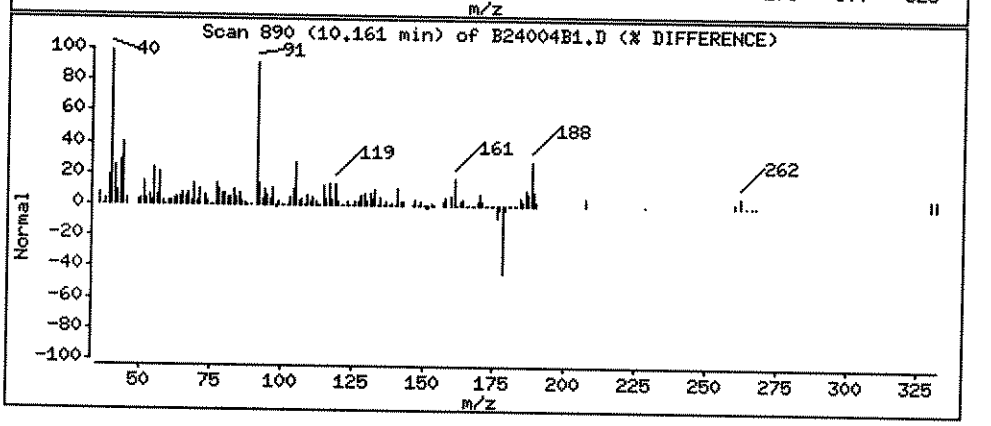
111 Phenanthrene

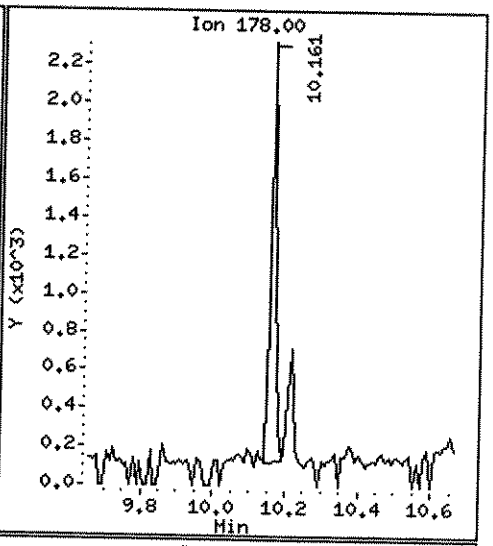
Concentration: 1.416 ug/Kg

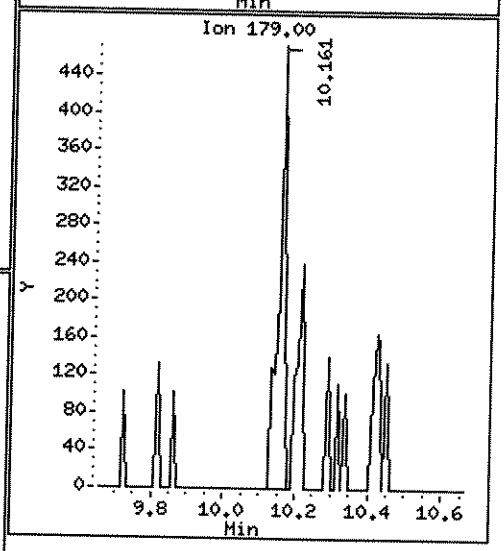












Data File: \\ELABNSH05\TARGET\chem\bna4.i\022812B4.b\0215022.D
Report Date: 01-Mar-2012 11:09

Laboratory Name

Data file : \\ELABNSH05\TARGET\chem\bna4.i\022812B4.b\0215022.D
Lab Smp Id: 1202150-22 Client Smp ID: FLC-4-PO8-0204-0221
Inj Date : 29-FEB-2012 01:28 MS Autotune Date: 15-FEB-2012 09:23
Operator : MEC Inst ID: bna4.i
Smp Info : 1202150-22;1;15;1000;1;ug/Kg;24-FEB-2012
Misc Info : ;0;;;;2B24004;pahlow.sub;
Comment :
Method : \\ELABNSH05\TARGET\chem\bna4.i\022812B4.b\IXBN4LOW.m
Meth Date : 01-Mar-2012 11:03 mcobb Quant Type: ISTD
Cal Date : 20-FEB-2012 16:29 Cal File: SEQ-CAL1.D
Als bottle: 18
Dil Factor: 1.00000
Integrator: HP RTE Compound Sublist: pahlow.sub
Target Version: 4.04
Processing Host: TARGET09_VM

Concentration Formula: Amt * DF * Uf * Vt*Vi/(Amt * Vi * (Solids/100))

Name	Value	Description
DF	1.000	Dilution Factor
Uf	1.000	ng unit correction factor
Vt	1000.000	Volume of final extract (uL)(1000 low, 2
Amt	15.000	Mass of initial extraction
Vi	1.000	Volume injected (uL)
Solids	100.000	Percent Solids

3-1-12

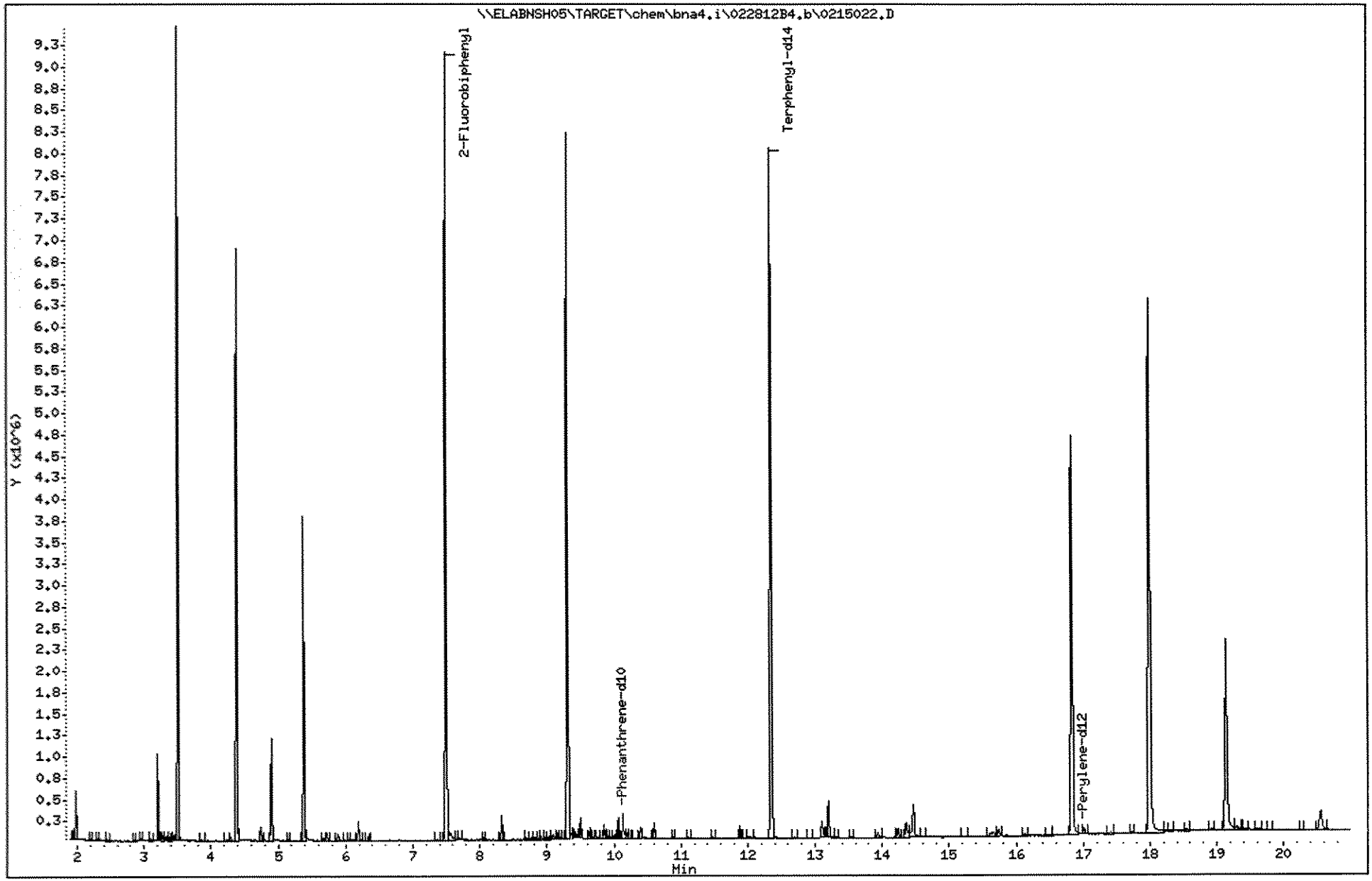
Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS ON-COLUMN (ng/ul)	FINAL (ug/Kg)
$ 74 2-Fluorobiphenyl	172	7.501	7.492	(0.740)	3452782	39.1752	2612
* 102 Phenanthrene-d10	188	10.132	10.132	(1.000)	109631	1.00000	
111 Phenanthrene	178	10.160	10.160	(1.003)	2511	0.02319	1.546(a)
116 Fluoranthene	202	11.750	11.750	(1.160)	2791	0.02509	1.673(a)
134 Pyrene	202	12.094	12.094	(1.194)	3182	0.02777	1.851(a)
* 154 Perylene-d12	264	17.012	17.011	(1.000)	48209	1.00000	
$ 135 Terphenyl-d14	244	12.354	12.345	(1.219)	3605852	47.5920	3173
139 Chrysene	228	14.278	14.278	(1.409)	1647	0.02278	1.519(a)

QC Flag Legend

a - Target compound detected but, quantitated amount
Below Limit Of Quantitation(BLOQ).

MEC
3/1/12

Data File: \\ELABNSH05\TARGET\chem\bna4.i\022812B4.b\0215022.D
Date : 29-FEB-2012 01:28
Client ID: FLC-4-P08-0204-0221 Instrument: bna4.i
Sample Info: 1202150-22;1;15;1000;1;ug/Kg;24-FEB-2012
Volume Injected (uL): 1.0 Operator: MEC
Column phase: fused silica Column diameter: 0.25



402

1202150

Data File: \\ELABNSH05\TARGET\chem\bna4.i\022812B4.b\0215022.D

Date : 29-FEB-2012 01:28

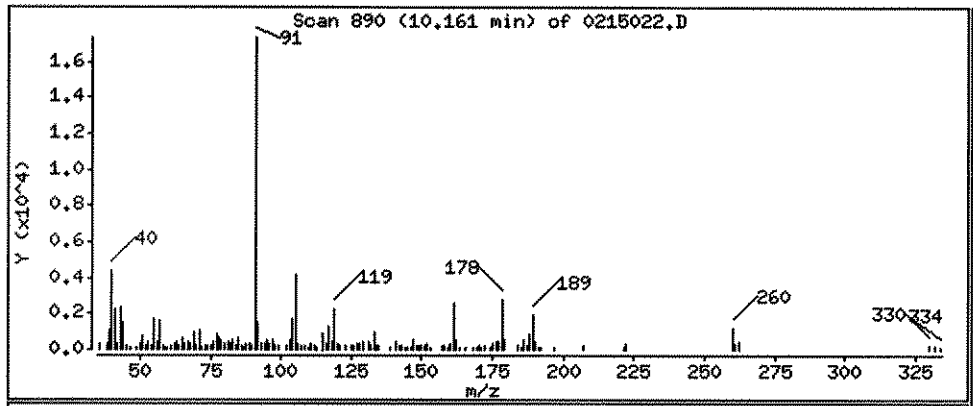
Client ID: FLC-4-P08-0204-0221 Instrument: bna4.i

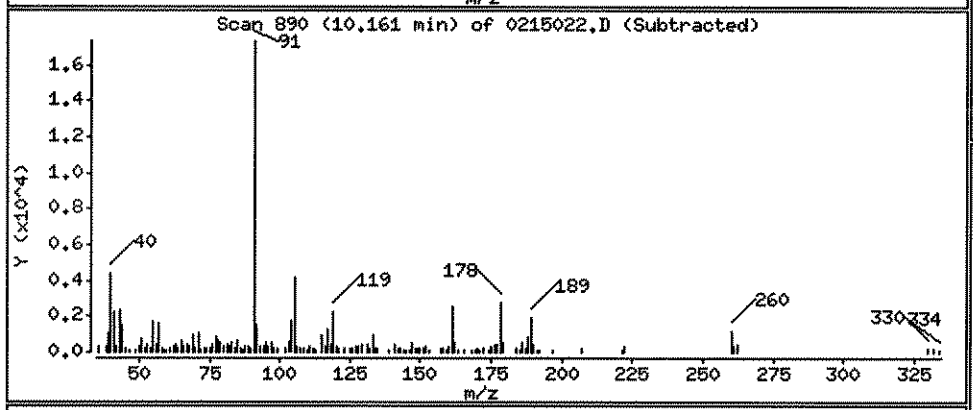
Sample Info: 1202150-22;1;15;1000;1;ug/Kg;24-FEB-2012

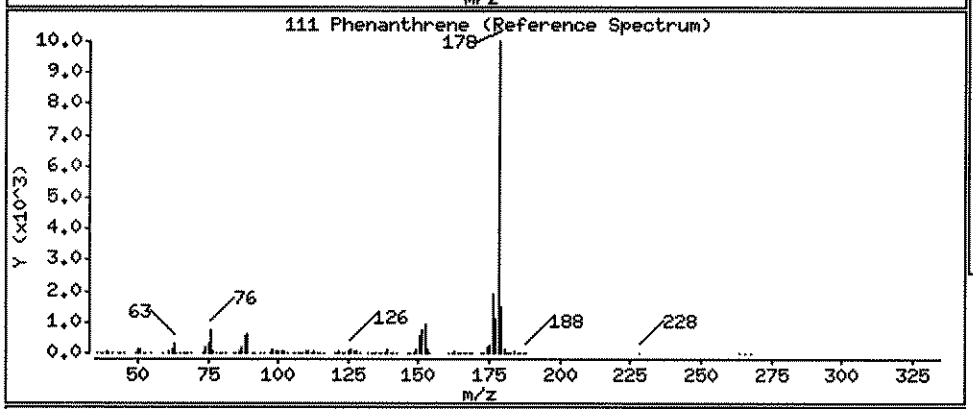
Volume Injected (uL): 1.0 Operator: MEC

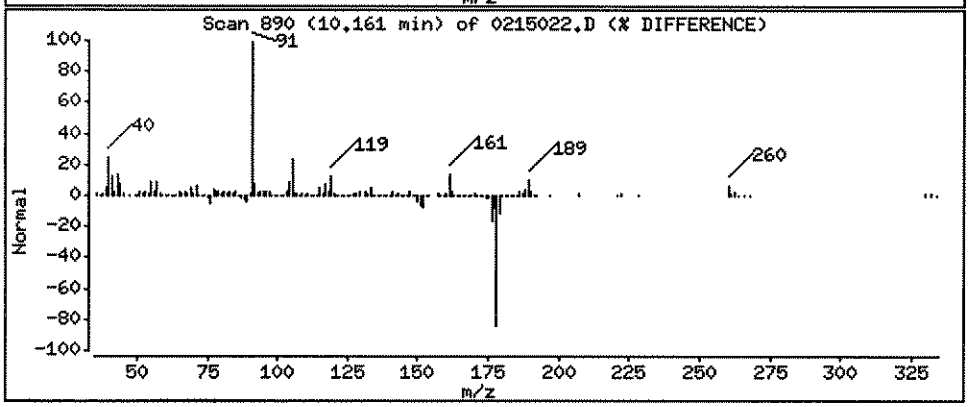
Column phase: fused silica Column diameter: 0.25

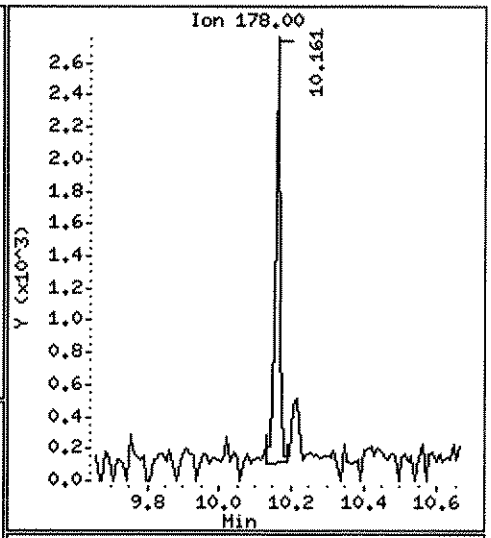
111 Phenanthrene Concentration: 1.546 ug/Kg

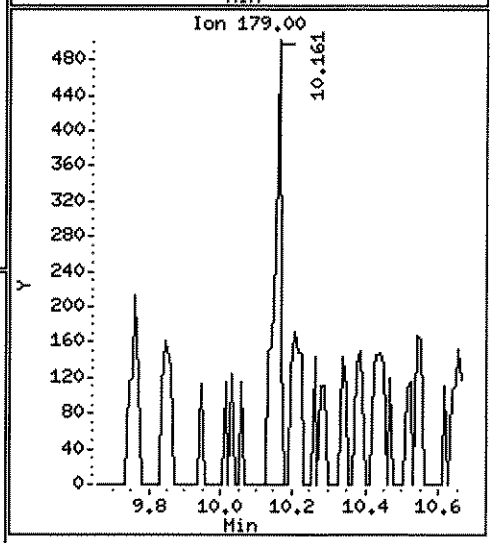












Data File: \\ELABNSHO5\TARGET\chem\bna4.i\022812B4.b\0215022.D

Date : 29-FEB-2012 01:28

Client ID: FLC-4-P08-0204-0221

Instrument: bna4.i

Sample Info: 1202150-22;1;15;1000;1;ug/Kg;24-FEB-2012

Volume Injected (uL): 1.0

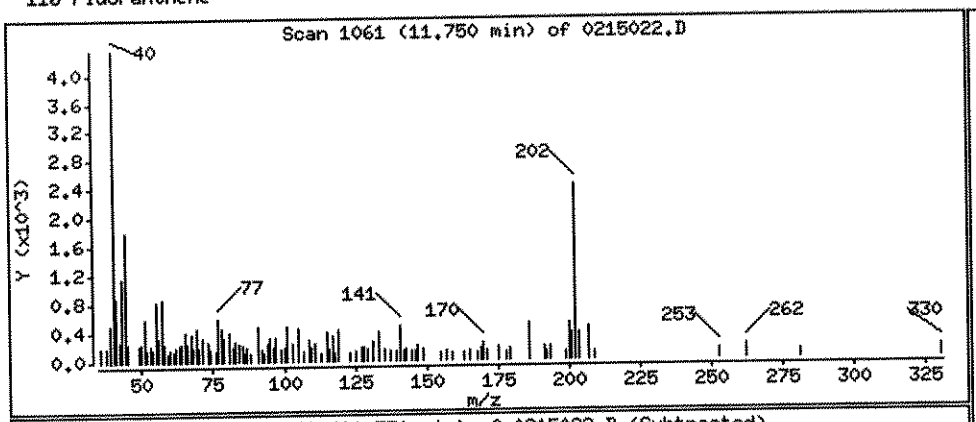
Operator: MEC

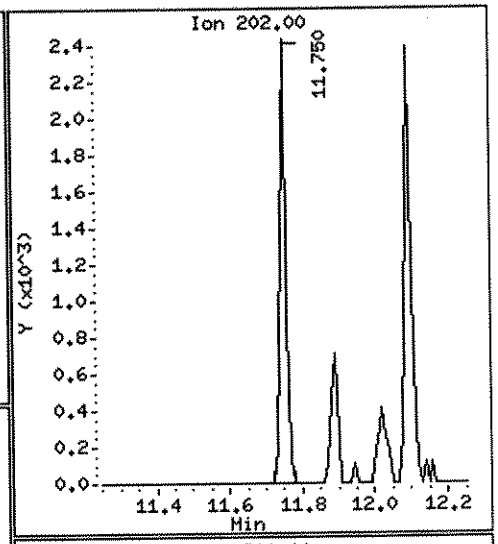
Column phase: fused silica

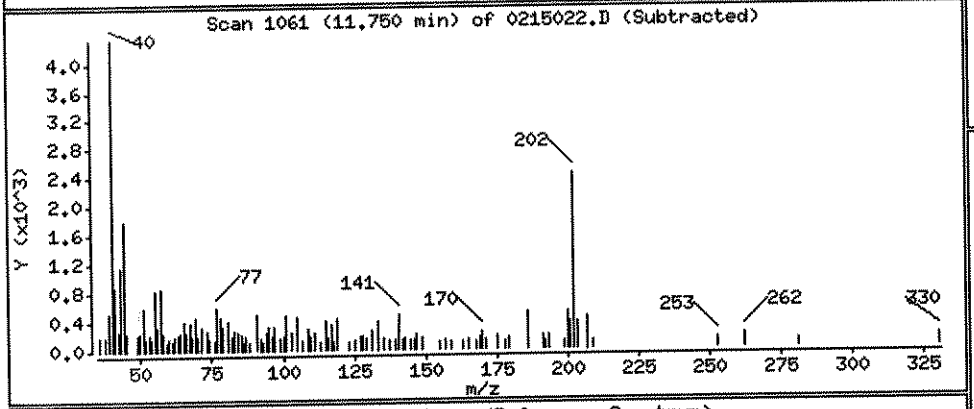
Column diameter: 0.25

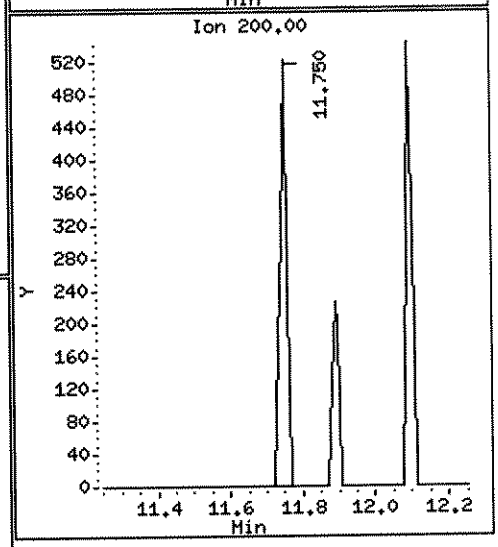
Concentration: 1.673 ug/Kg

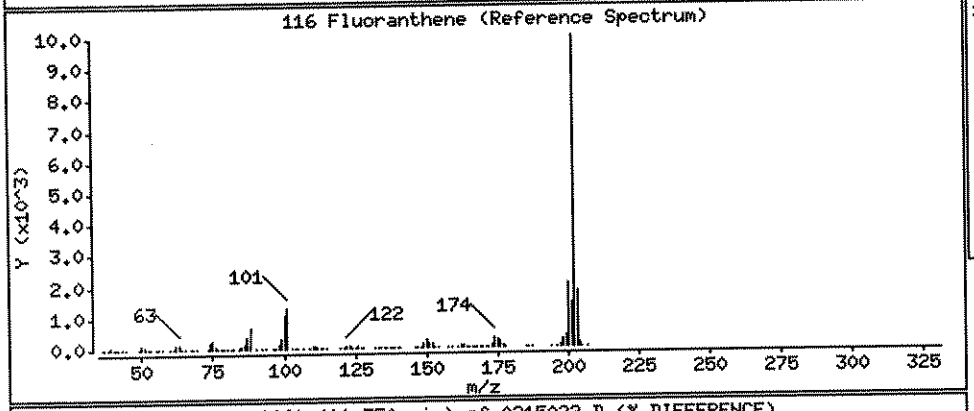
116 Fluoranthene

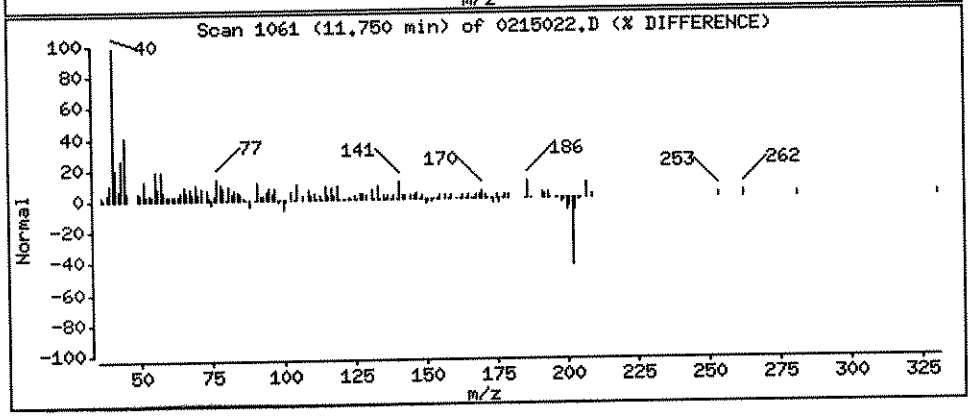












Data File: \\ELABNSH05\TARGET\chem\bna4.i\022812B4.b\0215022.D

Date : 29-FEB-2012 01:28

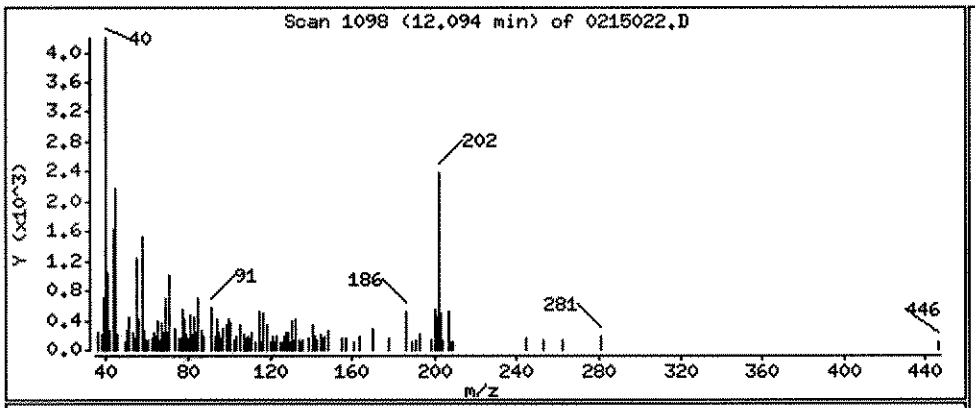
Client ID: FLC-4-P08-0204-0221 Instrument: bna4.i

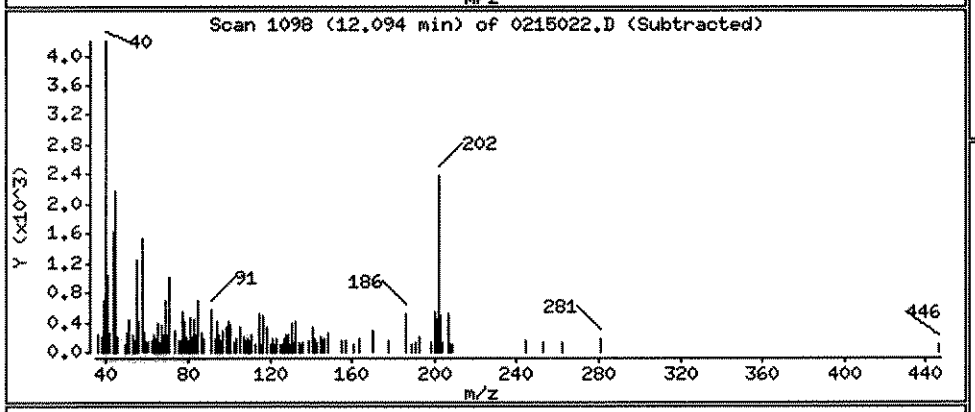
Sample Info: 1202150-22;1;15;1000;1;ug/Kg;24-FEB-2012

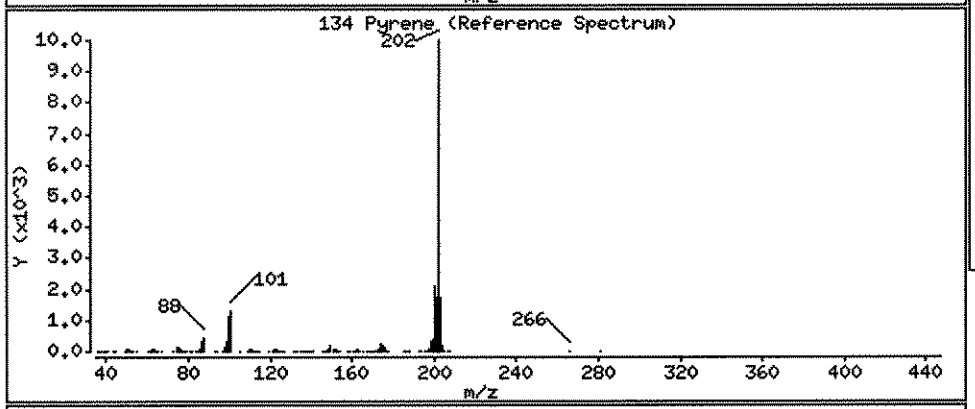
Volume Injected (uL): 1.0 Operator: MEC

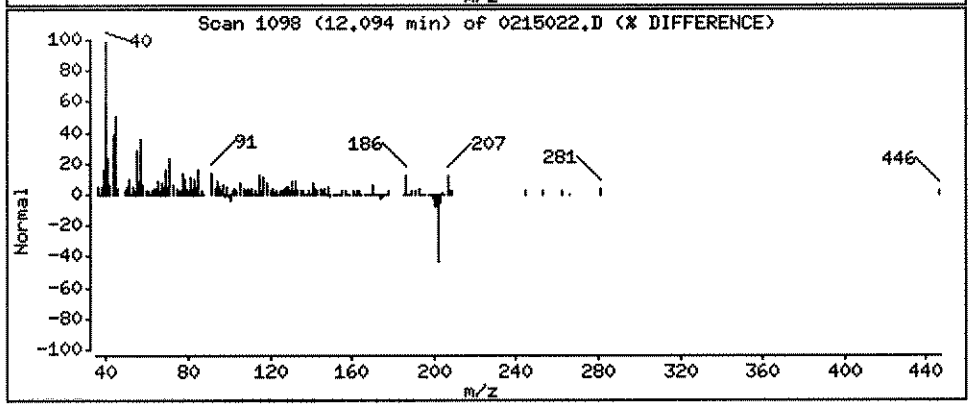
Column phase: fused silica Column diameter: 0.25

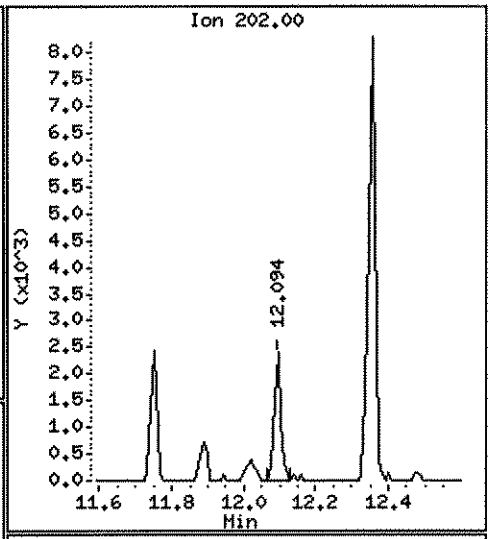
134 Pyrene Concentration: 1.851 ug/Kg

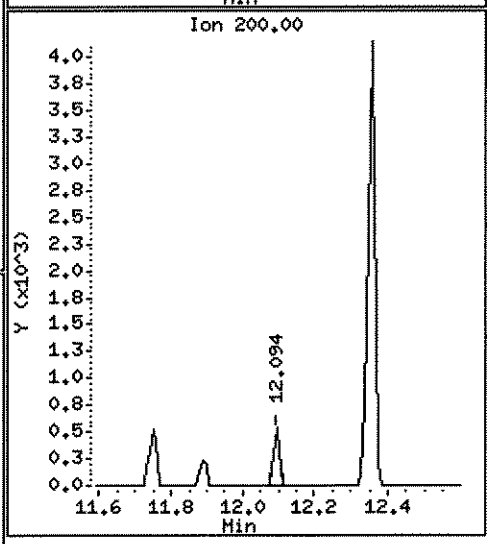












Data File: \\ELABNSH05\TARGET\chem\bna4.i\022812B4.b\0215022.D

Date : 29-FEB-2012 01:28

Client ID: FLC-4-P08-0204-0221

Instrument: bna4.i

Sample Info: 1202150-22;1;15;1000;1;ug/Kg;24-FEB-2012

Volume Injected (uL): 1.0

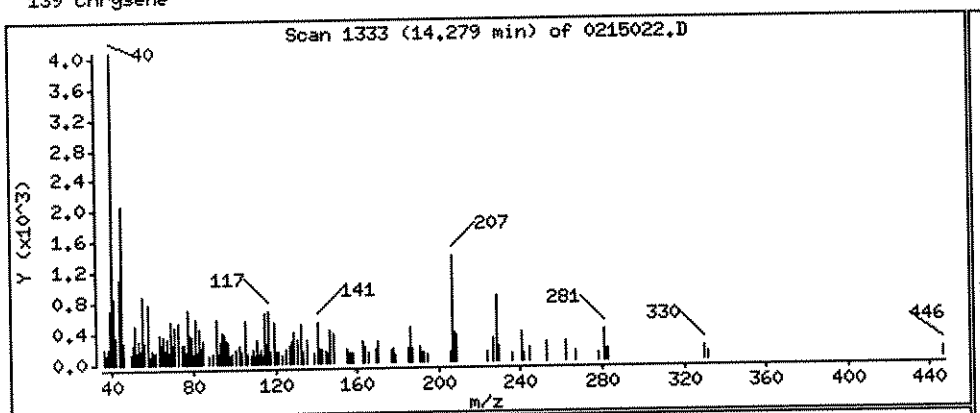
Operator: MEC

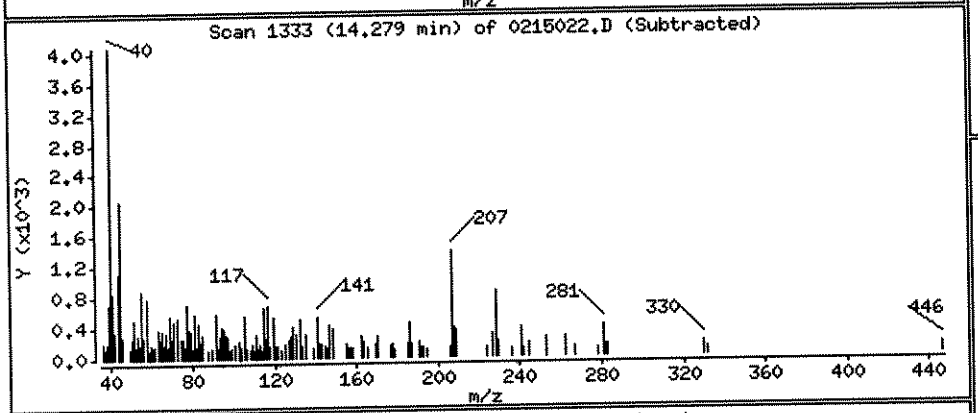
Column phase: fused silica

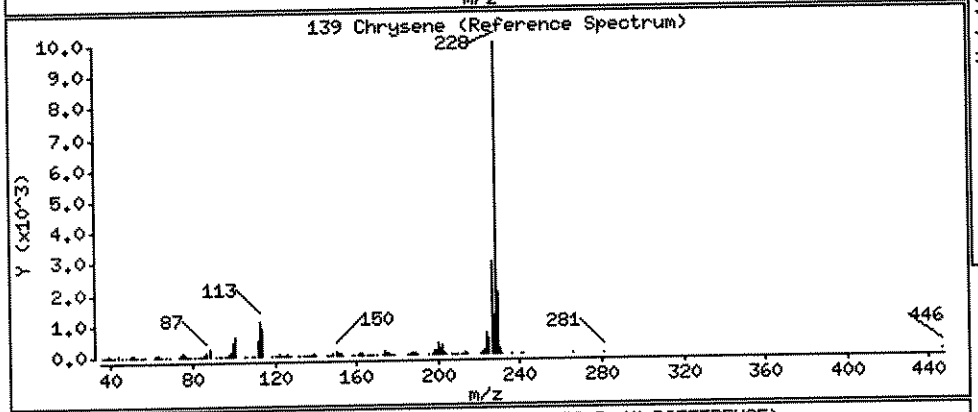
Column diameter: 0.25

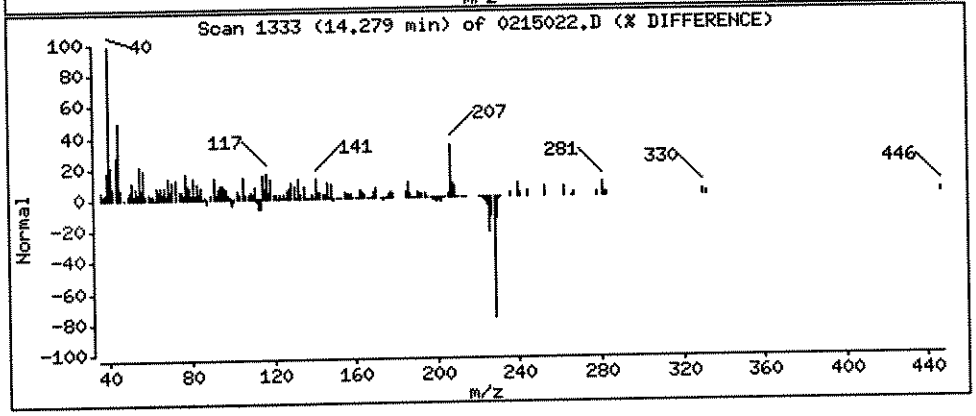
Concentration: 1.519 ug/Kg

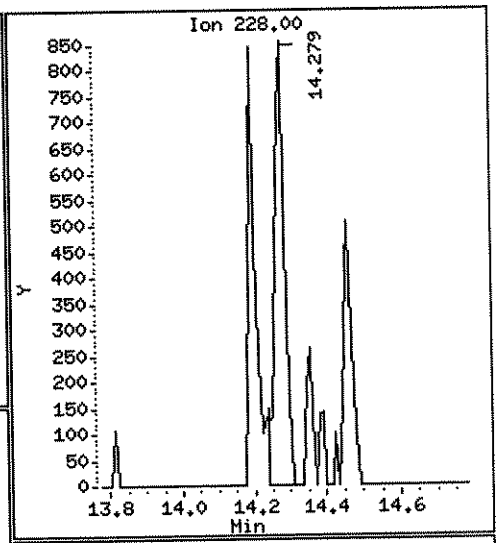
139 Chrysene

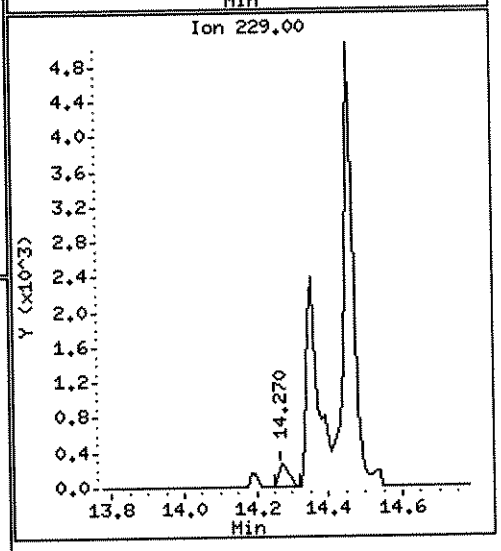












Data File: \\ELABNSH05\TARGET\chem\bna4.i\022812B4.b\0215022M.D
Report Date: 01-Mar-2012 11:09

Laboratory Name

Data file : \\ELABNSH05\TARGET\chem\bna4.i\022812B4.b\0215022M.D
Lab Smp Id: 2B24004-MS1 Client Smp ID: 2B24004-MS1
Inj Date : 29-FEB-2012 01:56 MS Autotune Date: 15-FEB-2012 09:23
Operator : MEC Inst ID: bna4.i
Smp Info : 2B24004-MS1;1;15;1000;1;ug/Kg;24-FEB-2012
Misc Info : ;3;MS;;;2B24004;pahlow.sub;
Comment :
Method : \\ELABNSH05\TARGET\chem\bna4.i\022812B4.b\IXBN4LOW.m
Meth Date : 01-Mar-2012 11:03 mcobb Quant Type: ISTD
Cal Date : 20-FEB-2012 16:29 Cal File: SEQ-CAL1.D
Als bottle: 19 QC Sample: MS
Dil Factor: 1.00000
Integrator: HP RTE Compound Sublist: pahlow.sub
Target Version: 4.04
Processing Host: TARGET09_VM

Concentration Formula: Amt * DF * Uf * Vt*Vi/(Amt * Vi * (Solids/100))

Name	Value	Description
DF	1.000	Dilution Factor
Uf	1.000	ng unit correction factor
Vt	1000.000	Volume of final extract (uL)(1000 low, 2
Amt	15.000	Mass of initial extraction
Vi	1.000	Volume injected (uL)
Solids	100.000	Percent Solids

3-1-12

Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS ON-COLUMN (ng/ul)	FINAL (ug/Kg)
51 Naphthalene	128	6.209	6.218	(0.613)	121944	0.95389	63.59
55 2-Methylnaphthalene	142	7.037	7.036	(0.694)	79804	0.95811	63.87
56 1-Methylnaphthalene	142	7.167	7.167	(0.707)	77784	0.96410	64.27
$ 74 2-Fluorobiphenyl	172	7.501	7.492	(0.740)	4259251	41.8927	2793
77 Acenaphthylene	152	8.143	8.143	(0.804)	123704	1.03187	68.79
80 Acenaphthene	153	8.366	8.366	(0.826)	79786	0.99007	66.00
88 Fluorene	166	8.979	8.979	(0.886)	91689	1.04736	69.82
* 102 Phenanthrene-d10	188	10.132	10.132	(1.000)	126465	1.00000	
111 Phenanthrene	178	10.160	10.160	(1.003)	137410	1.10023	73.35(R)
112 Anthracene	178	10.216	10.216	(1.008)	127481	1.05870	70.58(R)
116 Fluoranthene	202	11.750	11.750	(1.160)	153647	1.19738	79.82(R)
134 Pyrene	202	12.094	12.094	(1.194)	156947	1.18737	79.16
* 154 Perylene-d12	264	17.012	17.011	(1.000)	71962	1.00000	

MEC
3/1/12

Data File: \\ELABNSH05\TARGET\chem\bna4.i\022812B4.b\0215022M.D
Report Date: 01-Mar-2012 11:09

Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS ON-COLUMN (ng/ul)	FINAL (ug/Kg)
$ 135 Terphenyl-d14	244	12.354	12.345	(1.219)	4372546	50.0292	3335(A)
138 Benzo(a)anthracene	228	14.195	14.195	(1.401)	105290	1.26199	84.13(R)
139 Chrysene	228	14.278	14.278	(1.409)	101490	1.21684	81.12(R)
156 Benzo(b)fluoranthene	252	16.296	16.296	(0.958)	87994	0.97519	65.01
157 Benzo(k)fluoranthene	252	16.342	16.342	(0.961)	93988	1.05715	70.48
158 Benzo(a)pyrene	252	16.900	16.909	(0.993)	76224	1.12692	75.13(R)
159 Indeno(1,2,3-cd)pyrene	276	18.917	18.908	(1.112)	61811	1.15002	76.67
160 Dibenz(a,h)anthracene	278	18.936	18.936	(1.113)	46855	1.09492	72.99
161 Benzo(g,h,i)perylene	276	19.391	19.391	(1.140)	59136	1.22142	81.43

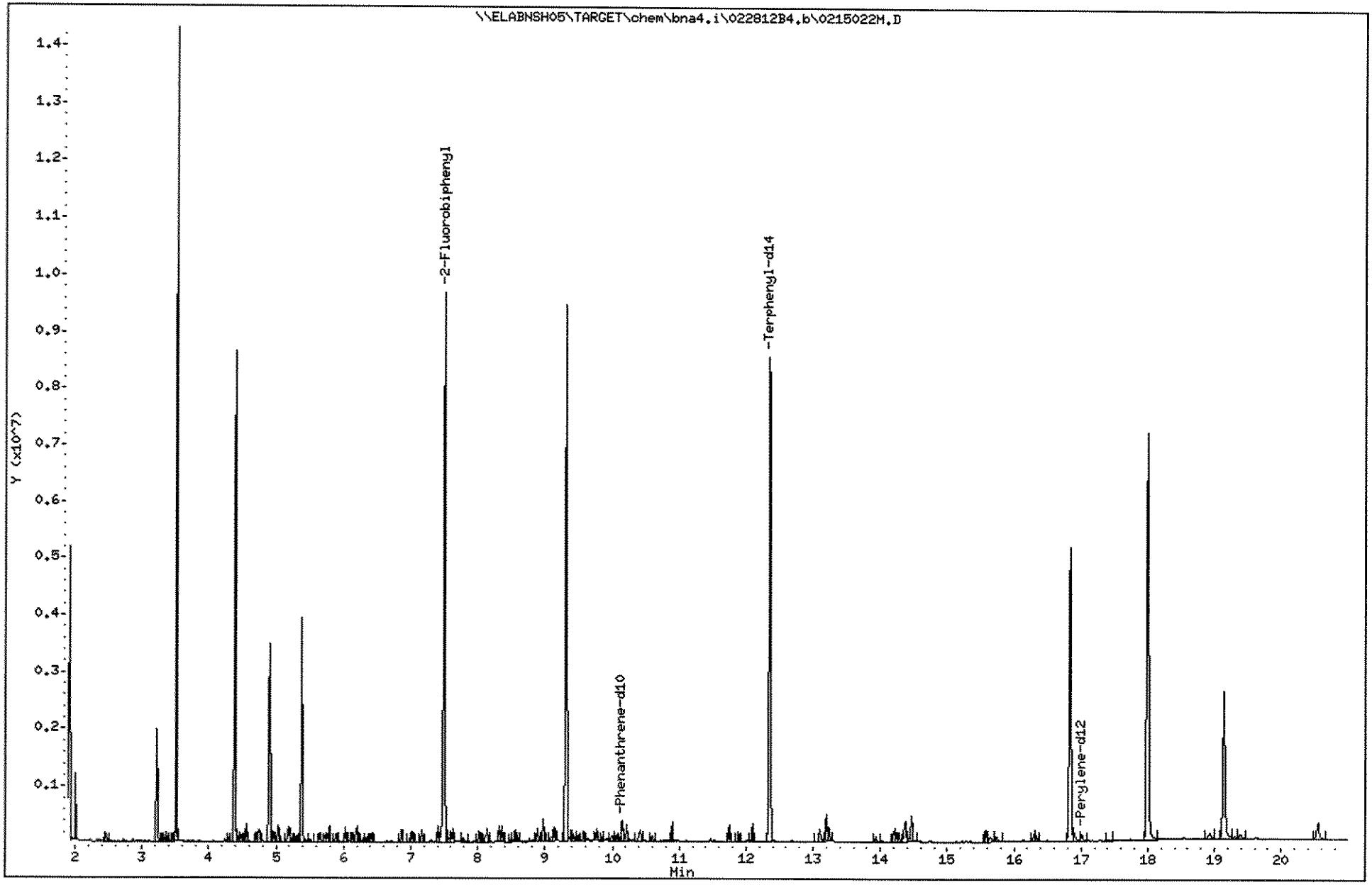
QC Flag Legend

A - Target compound detected but, quantitated amount exceeded maximum amount.
R - Spike/Surrogate failed recovery limits.

Data File: \\ELABNSH05\TARGET\chem\bna4.i\022812B4.b\0215022M.D
Date : 29-FEB-2012 01:56
Client ID: 2B24004-HS1
Sample Info: 2B24004-HS1;1;15;1000;1;ug/Kg;24-FEB-2012
Volume Injected (uL): 1.0
Column phase: fused silica

Instrument: bna4.i

Operator: MEC
Column diameter: 0.25



409

1202150

Data File: \\ELABNSH05\TARGET\chem\bna4.i\022812B4.b\0215022S.D
Report Date: 01-Mar-2012 11:09

Laboratory Name

Data file : \\ELABNSH05\TARGET\chem\bna4.i\022812B4.b\0215022S.D
Lab Smp Id: 2B24004-MSD1 Client Smp ID: 2B24004-MSD1
Inj Date : 29-FEB-2012 02:25 MS Autotune Date: 15-FEB-2012 09:23
Operator : MEC Inst ID: bna4.i
Smp Info : 2B24004-MSD1;1;15;1000;1;ug/Kg;24-FEB-2012
Misc Info : ;3;MSD;;;2B24004;pahlow.sub;
Comment :
Method : \\ELABNSH05\TARGET\chem\bna4.i\022812B4.b\IXBN4LOW.m
Meth Date : 01-Mar-2012 11:03 mcobb Quant Type: ISTD
Cal Date : 20-FEB-2012 16:29 Cal File: SEQ-CAL1.D
Als bottle: 20 QC Sample: MSD
Dil Factor: 1.00000
Integrator: HP RTE Compound Sublist: pahlow.sub
Target Version: 4.04
Processing Host: TARGET09_VM

Concentration Formula: Amt * DF * Uf * Vt*Vi/(Amt * Vi * (Solids/100))

Name	Value	Description
DF	1.000	Dilution Factor
Uf	1.000	ng unit correction factor
Vt	1000.000	Volume of final extract (uL)(1000 low, 2
Amt	15.000	Mass of initial extraction
Vi	1.000	Volume injected (uL)
Solids	100.000	Percent Solids

RW 3-1-12

Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS ON-COLUMN (ng/ul)	FINAL (ug/Kg)
51 Naphthalene	128	6.209	6.218	(0.613)	98082	0.84135	56.09
55 2-Methylnaphthalene	142	7.036	7.036	(0.694)	64687	0.85164	56.78
56 1-Methylnaphthalene	142	7.167	7.167	(0.707)	63677	0.86549	57.70
$ 74 2-Fluorobiphenyl	172	7.501	7.492	(0.740)	3512438	37.8844	2526
77 Acenaphthylene	152	8.143	8.143	(0.804)	102811	0.94043	62.70
80 Acenaphthene	153	8.366	8.366	(0.826)	67083	0.91285	60.86
88 Fluorene	166	8.979	8.979	(0.886)	75888	0.95061	63.37
* 102 Phenanthrene-d10	188	10.132	10.132	(1.000)	115325	1.00000	
111 Phenanthrene	178	10.160	10.160	(1.003)	109804	0.96412	64.27
112 Anthracene	178	10.216	10.216	(1.008)	106482	0.96973	64.65
116 Fluoranthene	202	11.750	11.750	(1.160)	120239	1.02755	68.50
134 Pyrene	202	12.094	12.094	(1.194)	121295	1.00629	67.08
* 154 Perylene-d12	264	17.011	17.011	(1.000)	49083	1.00000	

MEC
3/1/12

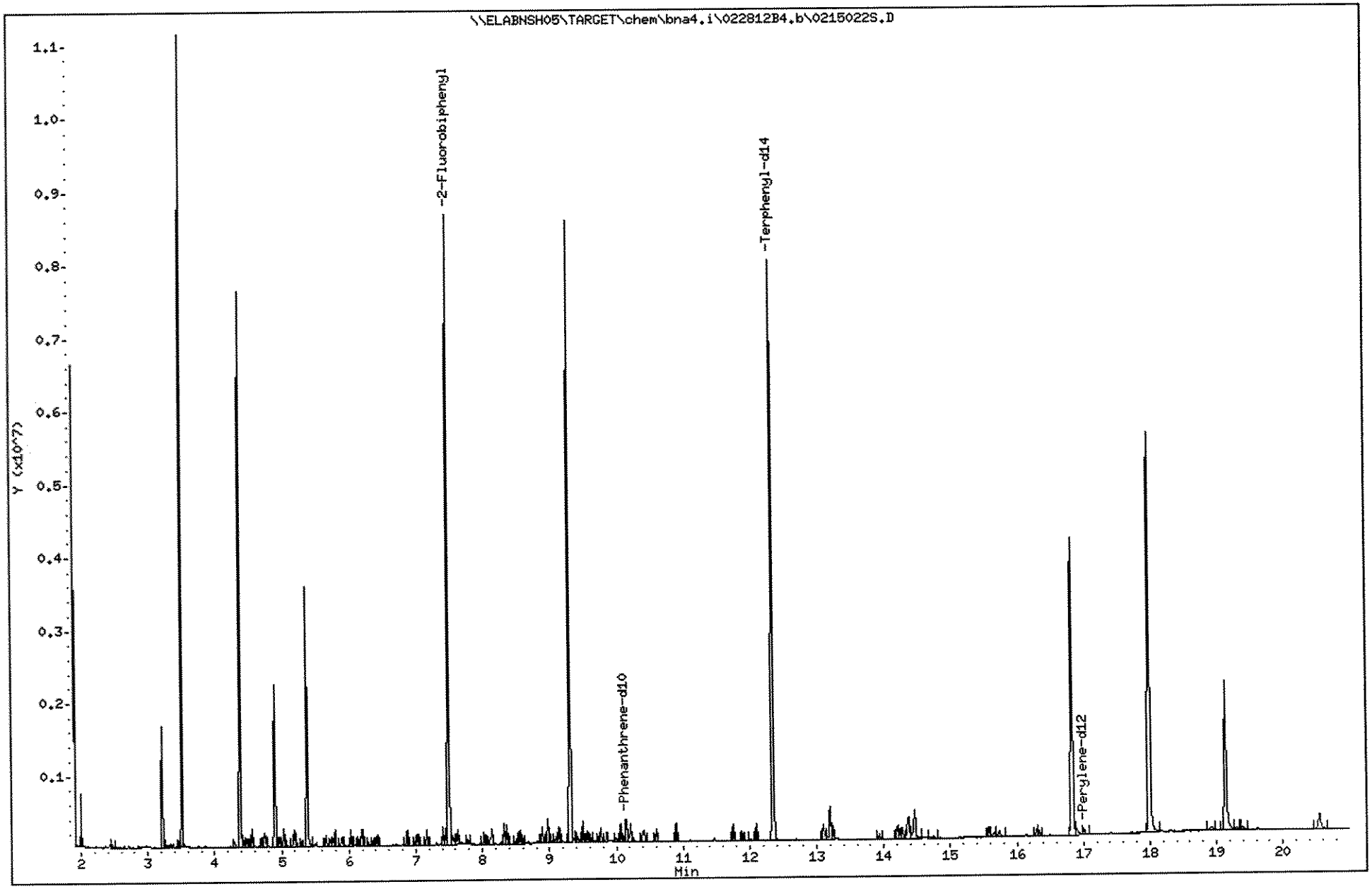
Data File: \\ELABNSH05\TARGET\chem\bna4.i\022812B4.b\0215022S.D
Report Date: 01-Mar-2012 11:09

Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS ON-COLUMN (ng/ul)	FINAL (ug/Kg)
$ 135 Terphenyl-d14	244	12.354	12.345	(1.219)	3684710	46.2317	3082
138 Benzo(a)anthracene	228	14.195	14.195	(1.401)	80728	1.06106	70.74
139 Chrysene	228	14.278	14.278	(1.409)	78819	1.03631	69.09
156 Benzo(b)fluoranthene	252	16.296	16.296	(0.958)	59713	0.97024	64.68
157 Benzo(k)fluoranthene	252	16.342	16.342	(0.961)	62910	1.03743	69.16
158 Benzo(a)pyrene	252	16.900	16.909	(0.993)	47114	1.02123	68.08
159 Indeno(1,2,3-cd)pyrene	276	18.908	18.908	(1.111)	30400	0.82925	55.28
160 Dibenz(a,h)anthracene	278	18.936	18.936	(1.113)	23029	0.78899	52.60
161 Benzo(g,h,i)perylene	276	19.391	19.391	(1.140)	29306	0.88745	59.16

Data File: \\ELABNSH05\TARGET\chem\bna4.i\022812B4.b\0215022S.D
Date : 29-FEB-2012 02:25
Client ID: 2B24004-MSD1
Sample Info: 2B24004-MSD1;1;15;1000;1;ug/Kg;24-FEB-2012
Volume Injected (uL): 1.0
Column phase: fused silica

Instrument: bna4.i

Operator: MEC
Column diameter: 0.25



412

1202150

Data File: \\ELABNSH05\TARGET\chem\bna4.i\022812B4.b\0215023.D
Report Date: 01-Mar-2012 11:09

Laboratory Name

Data file : \\ELABNSH05\TARGET\chem\bna4.i\022812B4.b\0215023.D
Lab Smp Id: 1202150-23 Client Smp ID: FLC-4-PO9-0006-0221
Inj Date : 29-FEB-2012 02:54 MS Autotune Date: 15-FEB-2012 09:23
Operator : MEC Inst ID: bna4.i
Smp Info : 1202150-23;1;15;1000;1;ug/Kg;24-FEB-2012
Misc Info : ;0;;;;2B24004;pahlow.sub;
Comment :
Method : \\ELABNSH05\TARGET\chem\bna4.i\022812B4.b\IXBN4LOW.m
Meth Date : 01-Mar-2012 11:03 mcobb Quant Type: ISTD
Cal Date : 20-FEB-2012 16:29 Cal File: SEQ-CAL1.D
Als bottle: 21
Dil Factor: 1.00000
Integrator: HP RTE Compound Sublist: pahlow.sub
Target Version: 4.04
Processing Host: TARGET09_VM

Concentration Formula: Amt * DF * Uf * Vt*Vi/(Amt * Vi * (Solids/100))

Name	Value	Description
DF	1.000	Dilution Factor
Uf	1.000	ng unit correction factor
Vt	1000.000	Volume of final extract (uL)(1000 low, 2
Amt	15.000	Mass of initial extraction
Vi	1.000	Volume injected (uL)
Solids	100.000	Percent Solids

3-1-12

Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS ON-COLUMN (ng/ul)	FINAL (ug/Kg)
51 Naphthalene	128	6.209	6.218	(0.613)	6681	0.06403	4.269(M)
55 2-Methylnaphthalene	142	7.036	7.036	(0.694)	2489	0.03661	2.441(a)
$ 74 2-Fluorobiphenyl	172	7.501	7.492	(0.740)	2860323	34.4708	2298
77 Acenaphthylene	152	8.143	8.143	(0.804)	5364	0.05482	3.655
* 102 Phenanthrene-d10	188	10.132	10.132	(1.000)	103214	1.00000	
111 Phenanthrene	178	10.160	10.160	(1.003)	39553	0.38804	25.87
112 Anthracene	178	10.216	10.216	(1.008)	3963	0.04033	2.688(a)
116 Fluoranthene	202	11.750	11.750	(1.160)	104821	1.00090	66.73
134 Pyrene	202	12.094	12.094	(1.194)	151680	1.40603	93.74
* 154 Perylene-d12	264	17.021	17.011	(1.000)	47774	1.00000	
$ 135 Terphenyl-d14	244	12.354	12.345	(1.219)	3368448	47.2227	3148
138 Benzo(a)anthracene	228	14.195	14.195	(1.401)	44247	0.64981	43.32
139 Chrysene	228	14.278	14.278	(1.409)	68481	1.00603	67.07

MEC
3/1/12

Data File: \\ELABNSH05\TARGET\chem\bna4.i\022812B4.b\0215023.D
Report Date: 01-Mar-2012 11:09

Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS ON-COLUMN (ng/ul)	FINAL (ug/Kg)
156 Benzo(b)fluoranthene	252	16.296	16.296	(0.957)	42395	0.70772	47.18(M)
157 Benzo(k)fluoranthene	252	16.333	16.342	(0.960)	42619	0.72207	48.14(M)
158 Benzo(a)pyrene	252	16.909	16.909	(0.993)	32743	0.72918	48.61
159 Indeno(1,2,3-cd)pyrene	276	18.917	18.908	(1.111)	14243	0.39917	26.61
160 Dibenz(a,h)anthracene	278	18.936	18.936	(1.113)	5004	0.17614	11.74
161 Benzo(g,h,i)perylene	276	19.401	19.391	(1.140)	17300	0.53824	35.88

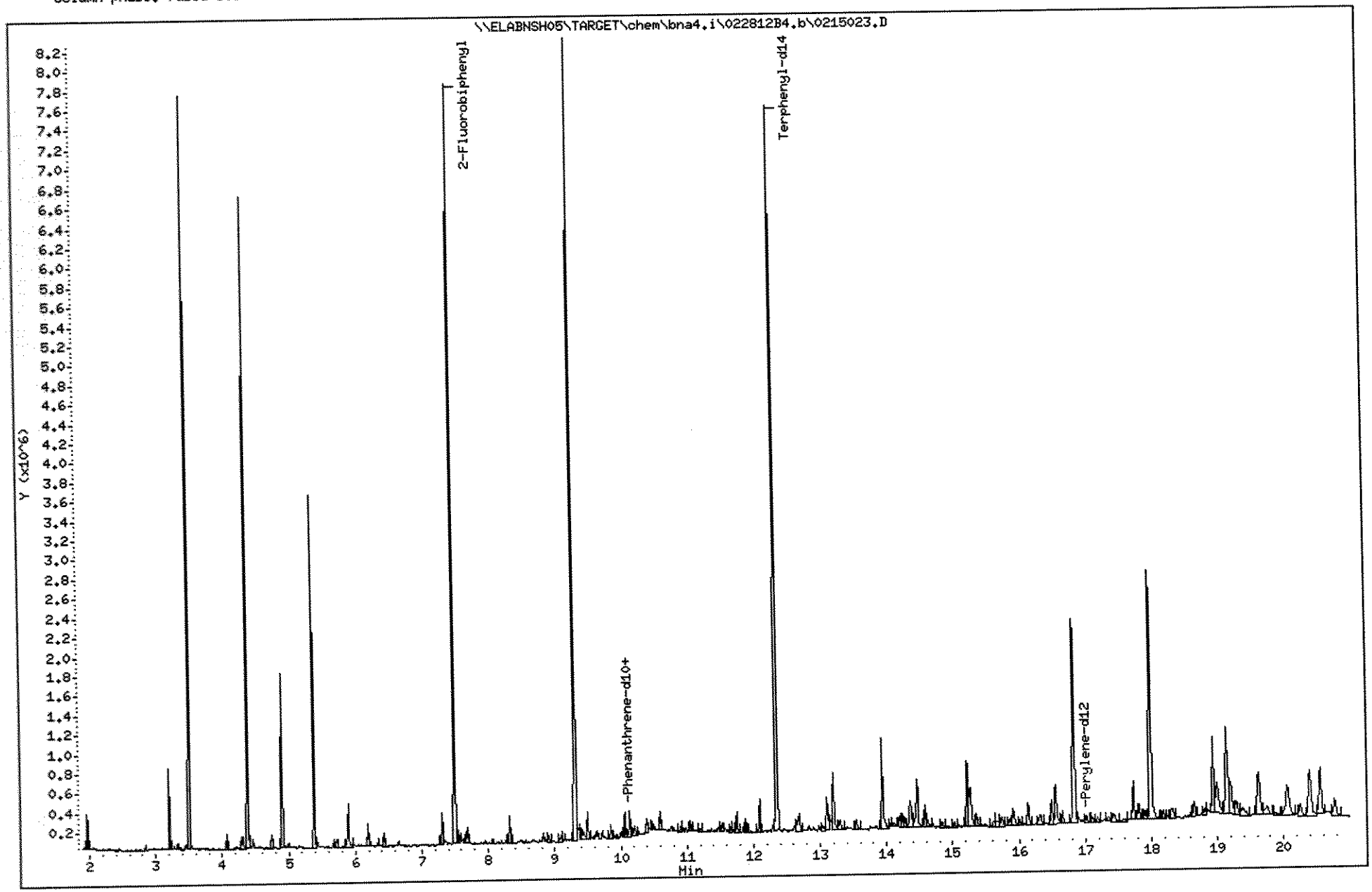
QC Flag Legend

a - Target compound detected but, quantitated amount
Below Limit Of Quantitation(BLOQ).
M - Compound response manually integrated.

Data File: \\ELABNSH05\TARGET\chem\bna4.i\022812B4.b\0215023.D
Date : 29-FEB-2012 02:54
Client ID: FLC-4-P09-0006-0221
Sample Info: 1202150-23;1;15;1000;1;ug/Kg;24-FEB-2012
Volume Injected (uL): 1.0
Column phase: fused silica

Instrument: bna4.i

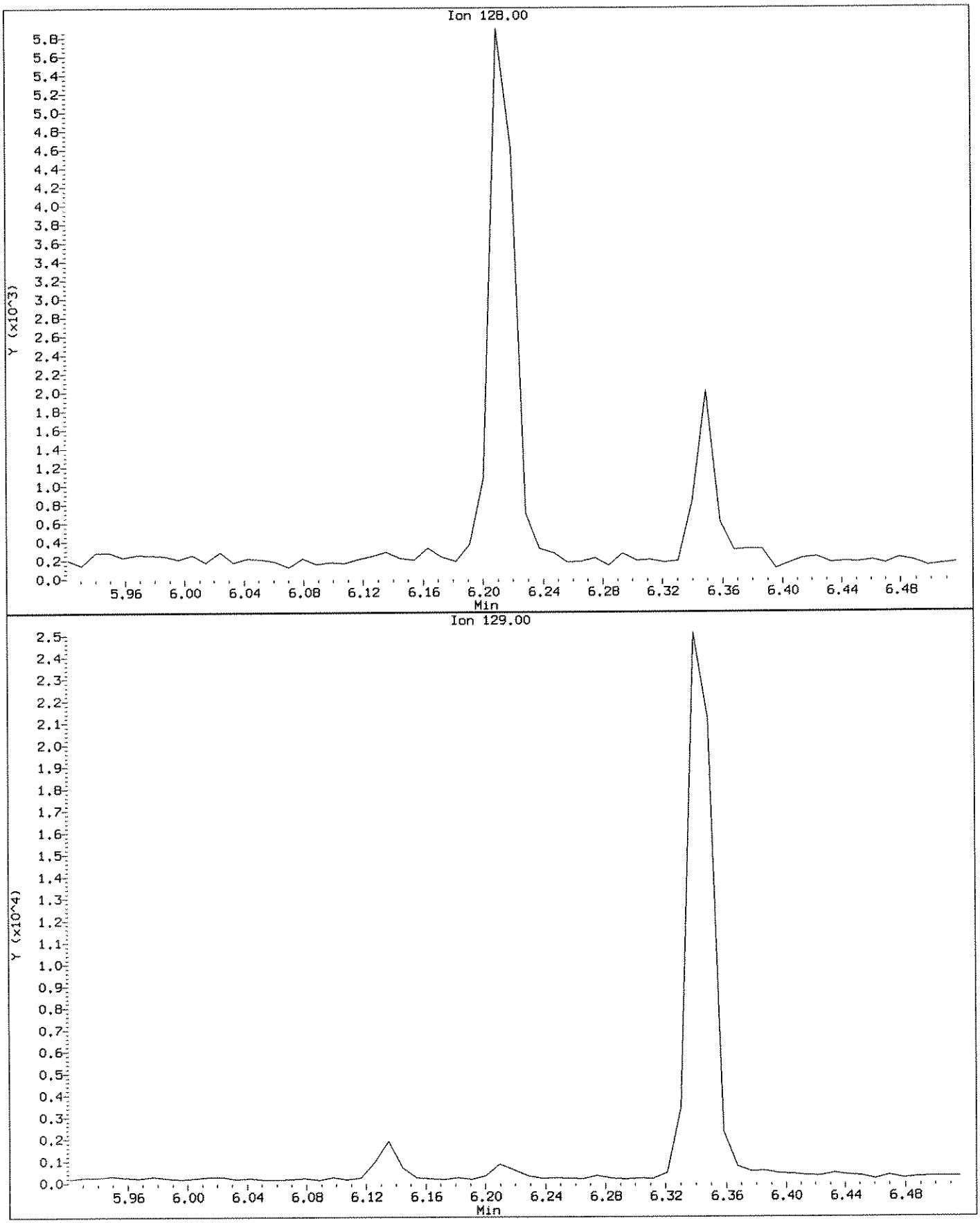
Operator: MEC
Column diameter: 0.25



1202150

Data File: \\ELABNSH05\TARGET\chem\bna4.i\022B12B4.b\0215023.D
Injection Date: 29-FEB-2012 02:54
Instrument: bna4.i
Client Sample ID: FLC-4-P09-0006-0221

Compound: Naphthalene
CAS Number: 91-20-3



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Date : 29-FEB-2012 02:54

Client ID: FLC-4-P09-0006-0221

Instrument: bna4.i

Sample Info: 1202150-23;1;15;1000;1;ug/Kg;24-FEB-2012

Volume Injected (uL): 1.0

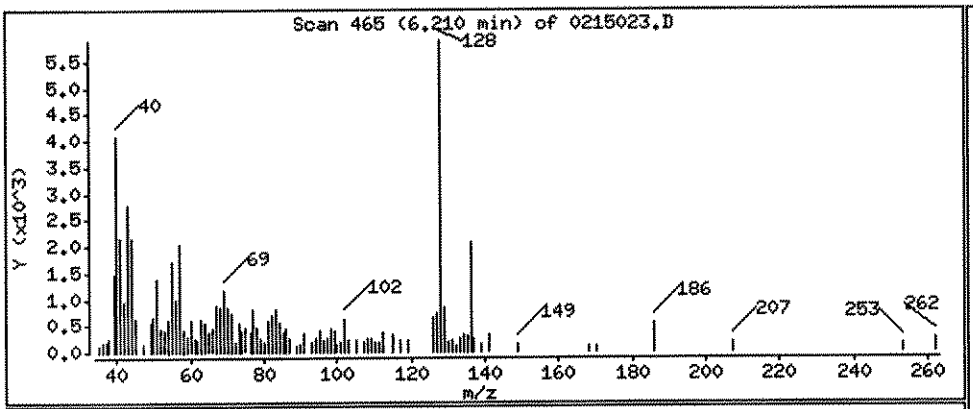
Operator: MEC

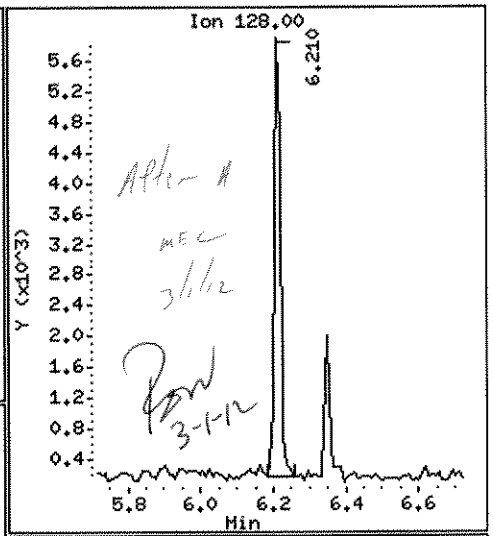
Column phase: fused silica

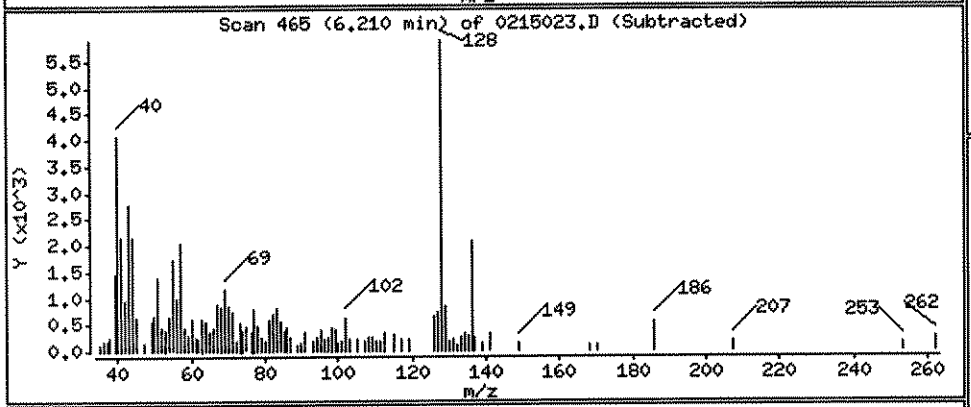
Column diameter: 0.25

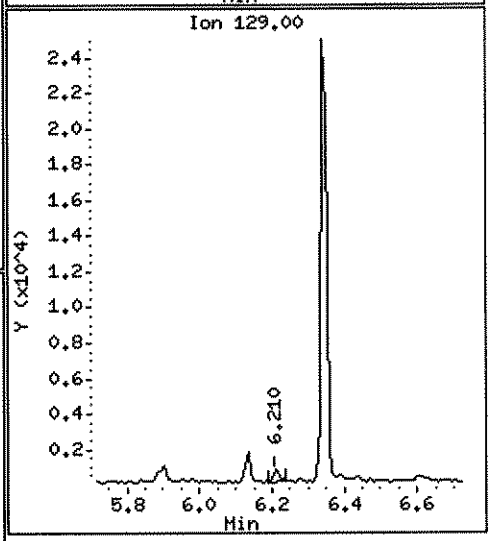
51 Naphthalene

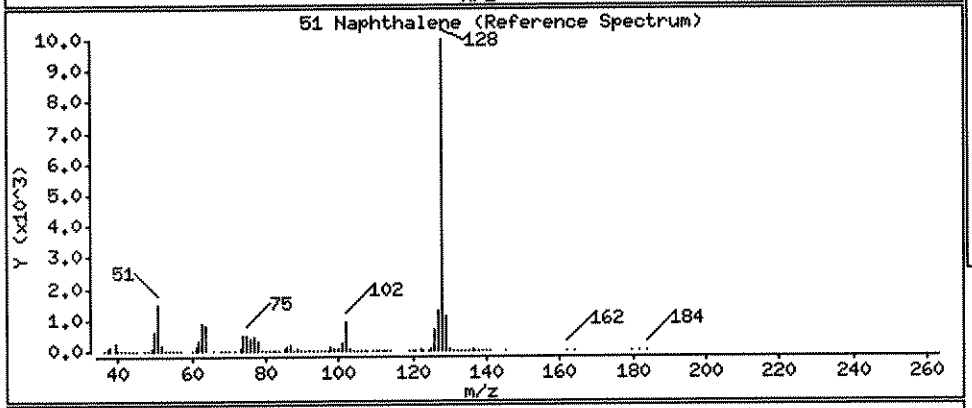
Concentration: 4.269 ug/Kg

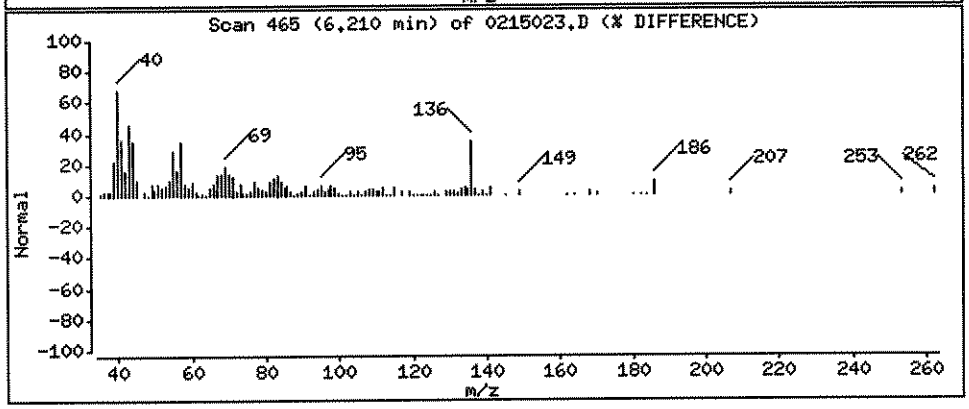












Data File: \\ELABNSH05\TARGET\chem\bna4.i\022812B4.b\0215023.D

Date : 29-FEB-2012 02:54

Client ID: FLC-4-P09-0006-0221

Instrument: bna4.i

Sample Info: 1202150-23;1;15;1000;1;ug/Kg;24-FEB-2012

Volume Injected (uL): 1.0

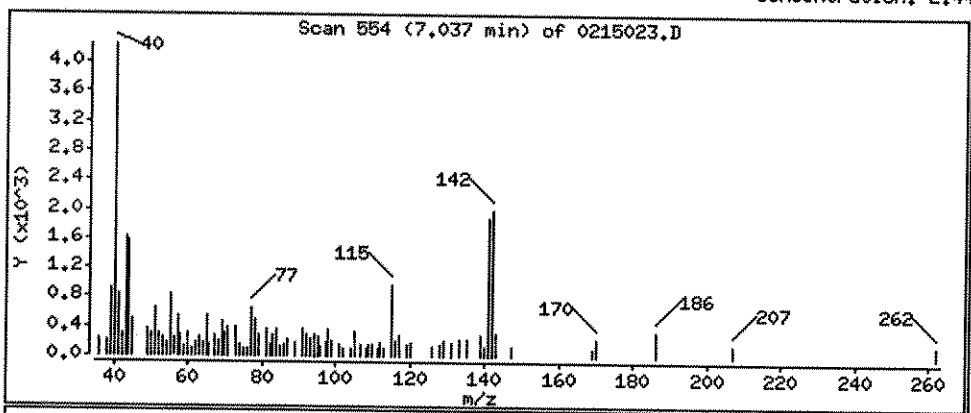
Operator: MEC

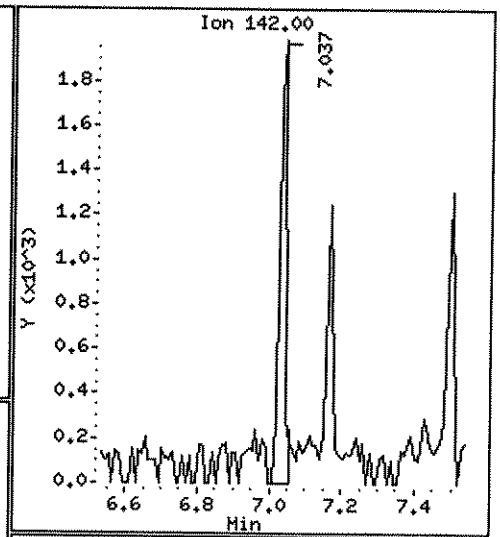
Column phase: fused silica

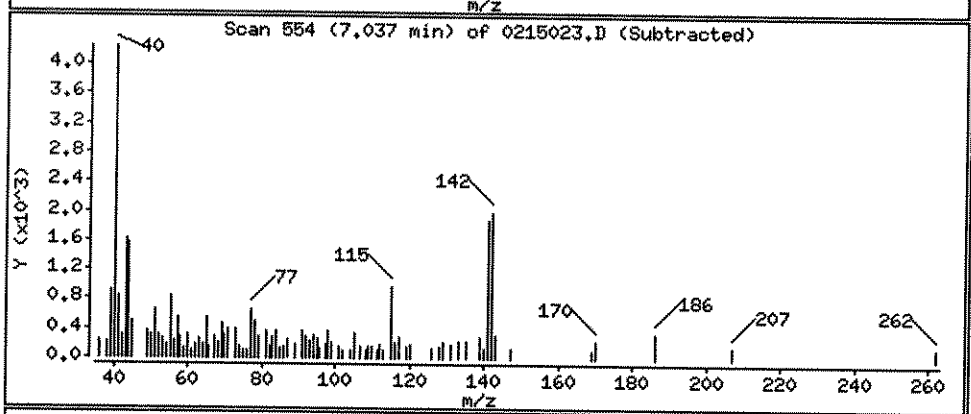
Column diameter: 0.25

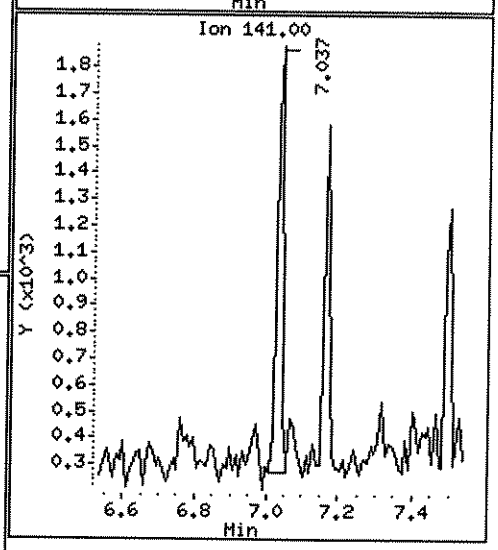
55 2-Methylnaphthalene

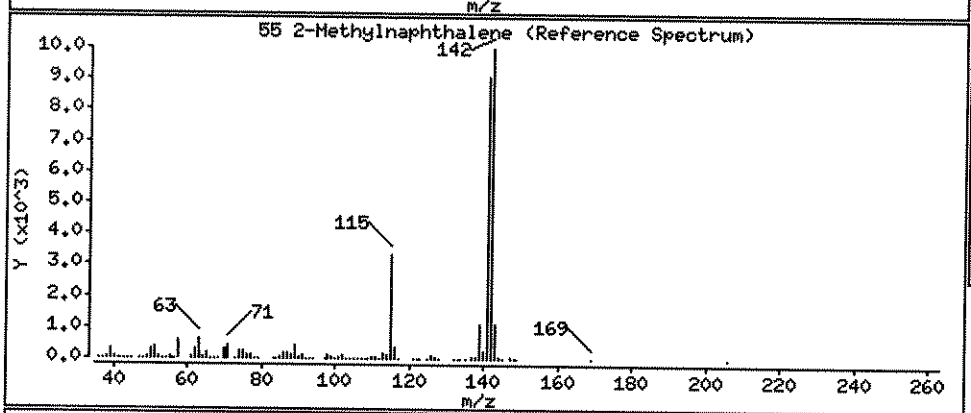
Concentration: 2.441 ug/Kg

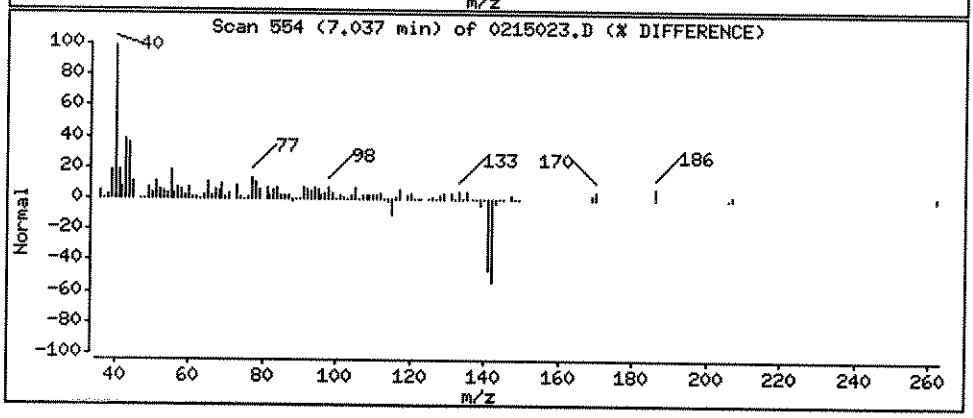












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Date : 29-FEB-2012 02:54

Client ID: FLC-4-P09-0006-0221

Instrument: bna4.i

Sample Info: 1202150-23;1;15;1000;1;ug/Kg;24-FEB-2012

Volume Injected (uL): 1.0

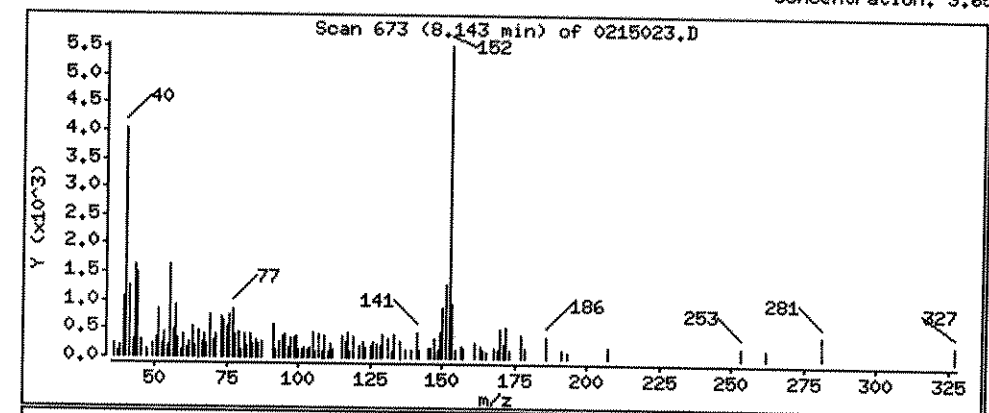
Operator: MEC

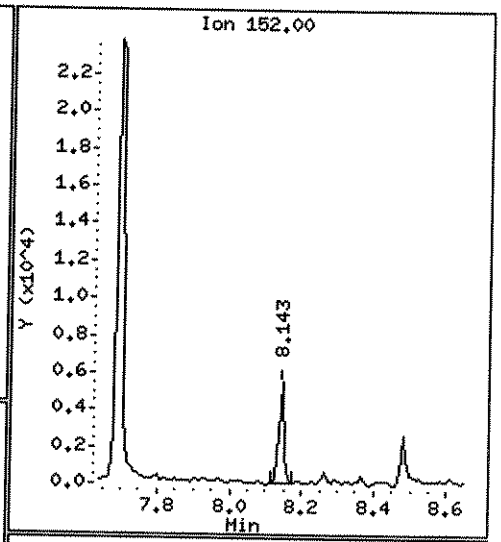
Column phase: fused silica

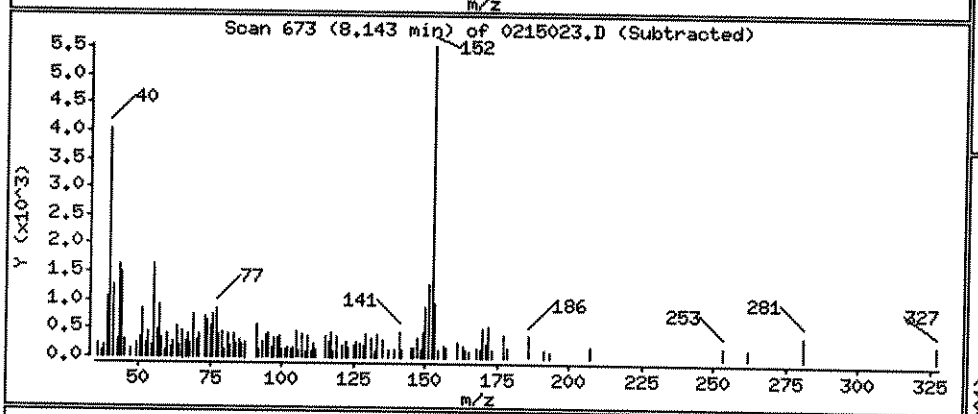
Column diameter: 0.25

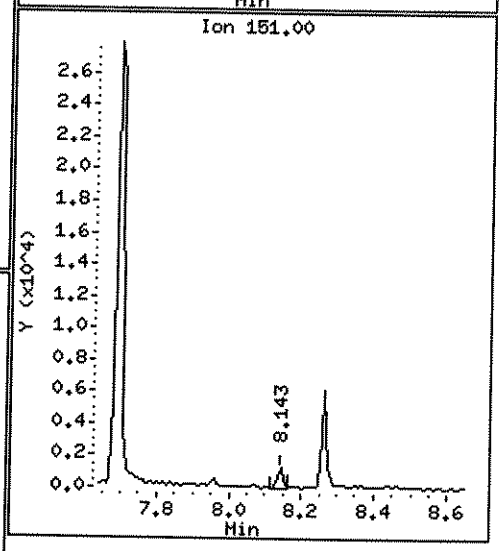
77 Acenaphthylene

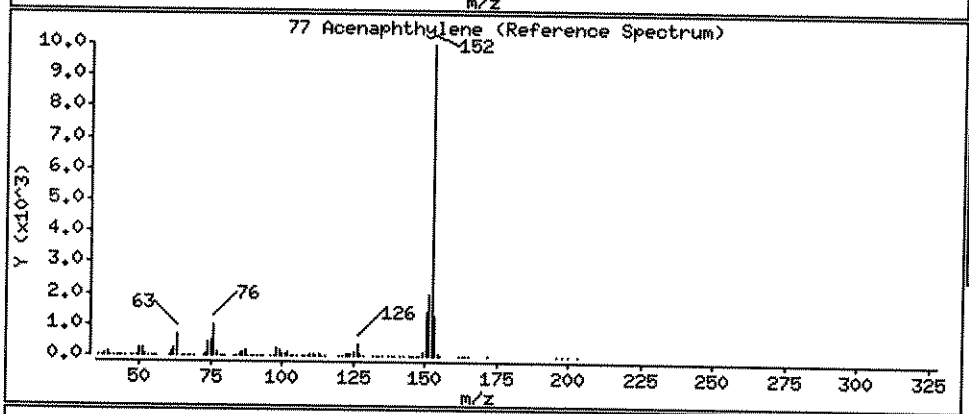
Concentration: 3.655 ug/Kg

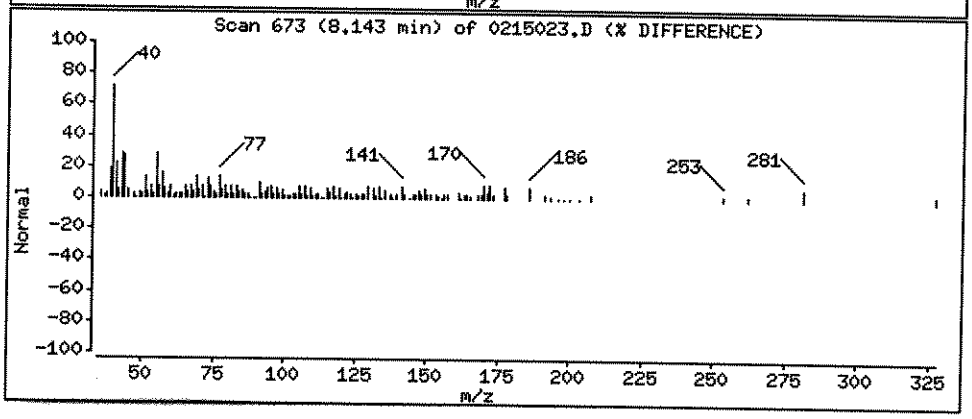












Data File: \\ELABNSH05\TARGET\chem\bna4.i\022812B4.b\0215023.D

Date : 29-FEB-2012 02:54

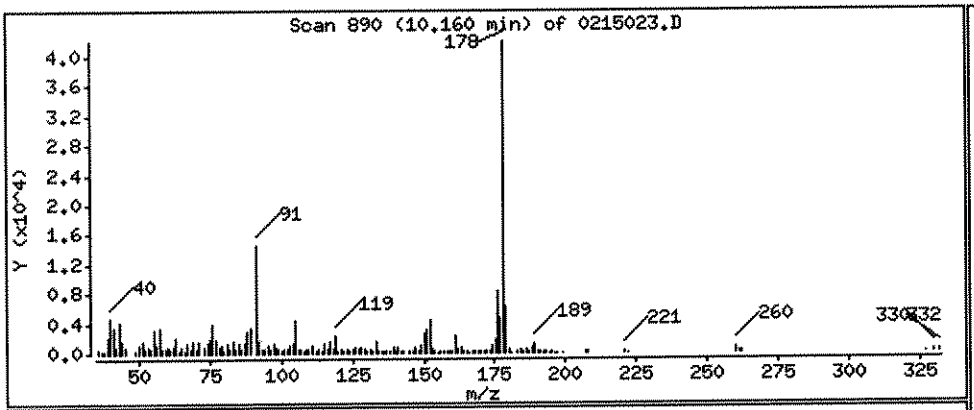
Client ID: FLC-4-P09-0006-0221 Instrument: bna4.i

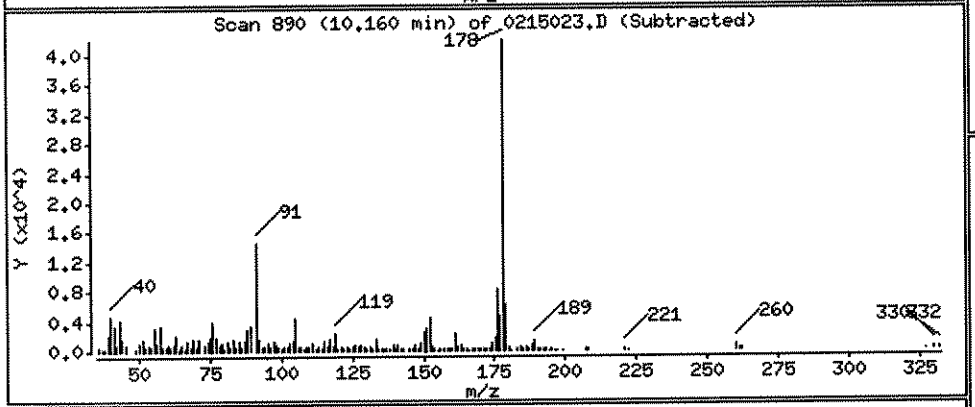
Sample Info: 1202150-23;1;15;1000;1;ug/Kg;24-FEB-2012

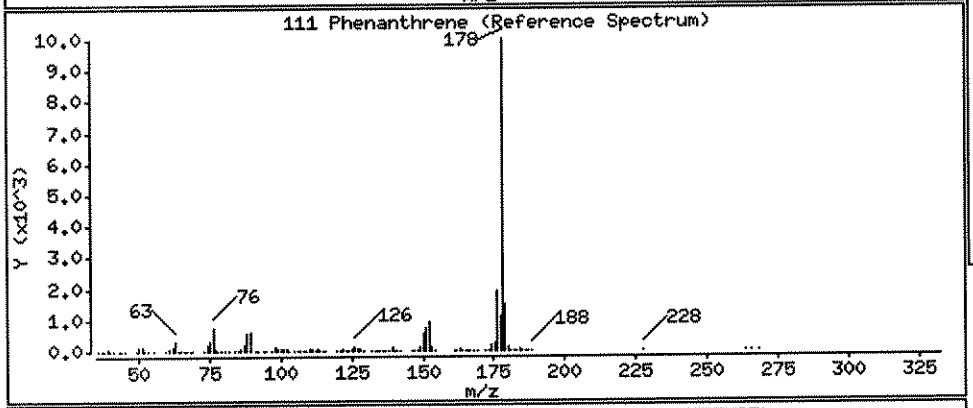
Volume Injected (uL): 1.0 Operator: MEC

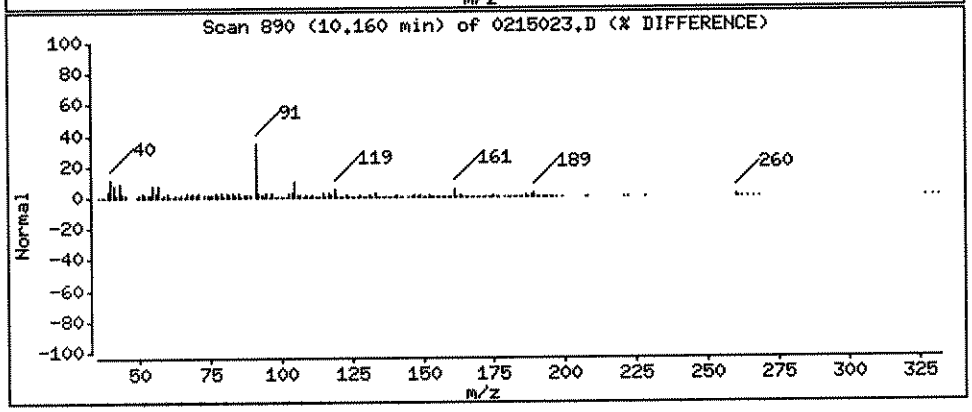
Column phase: fused silica Column diameter: 0.25

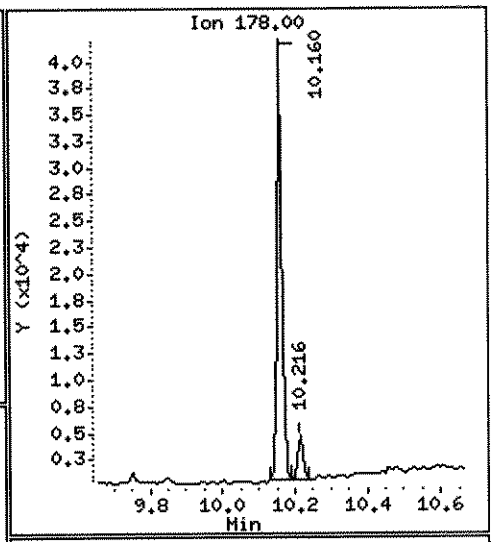
111 Phenanthrene Concentration: 25.87 ug/Kg

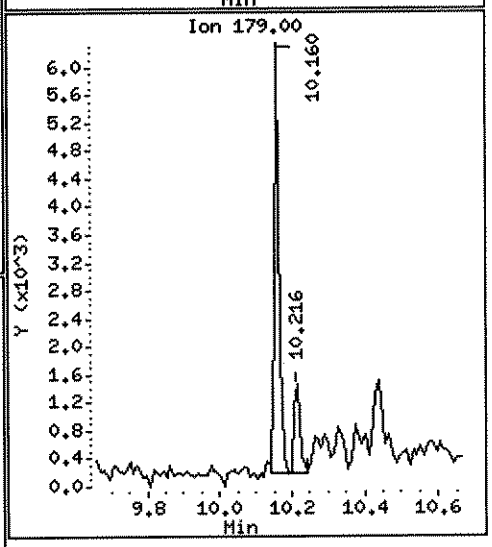












Data File: \\ELABNSH05\TARGET\chem\bna4.i\022812B4.b\0215023.D

Date : 29-FEB-2012 02:54

Client ID: FLC-4-P09-0006-0221

Instrument: bna4.i

Sample Info: 1202150-23;1;15;1000;1;ug/Kg;24-FEB-2012

Volume Injected (uL): 1.0

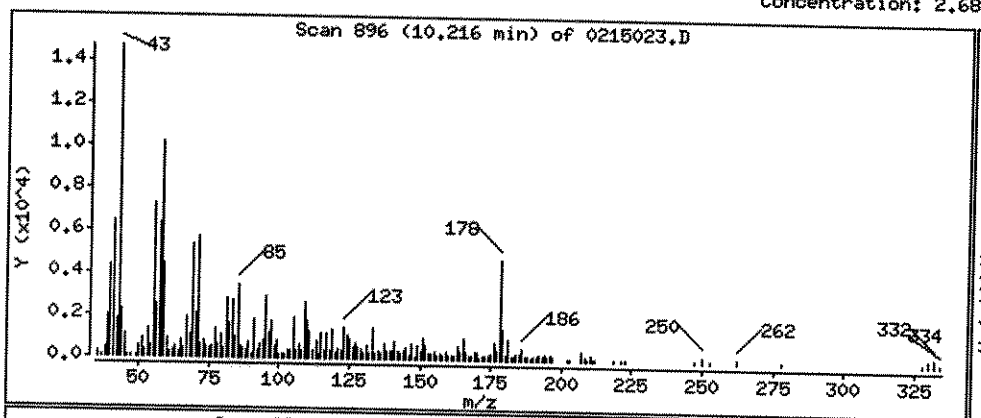
Operator: MEC

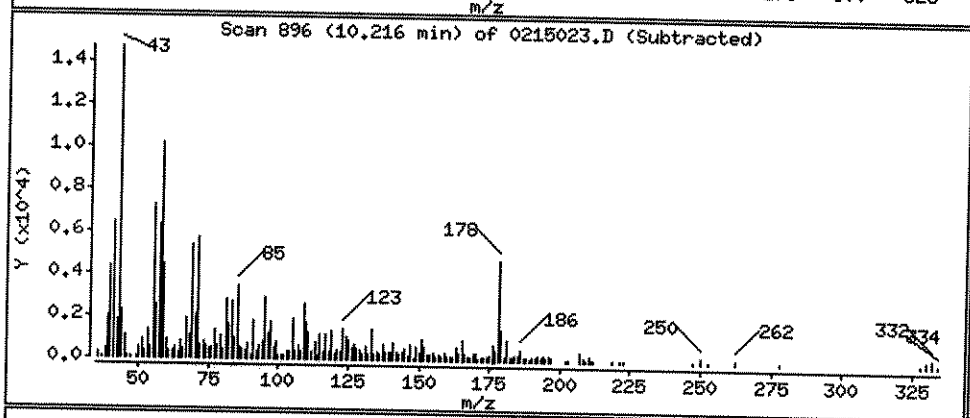
Column phase: fused silica

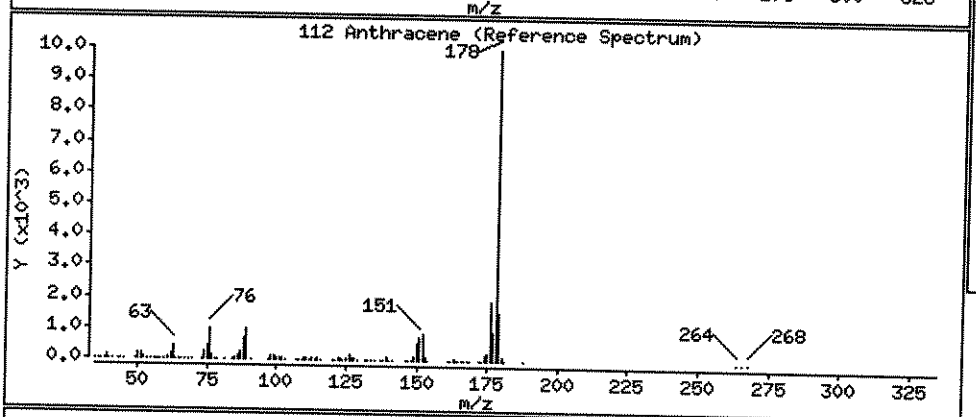
Column diameter: 0.25

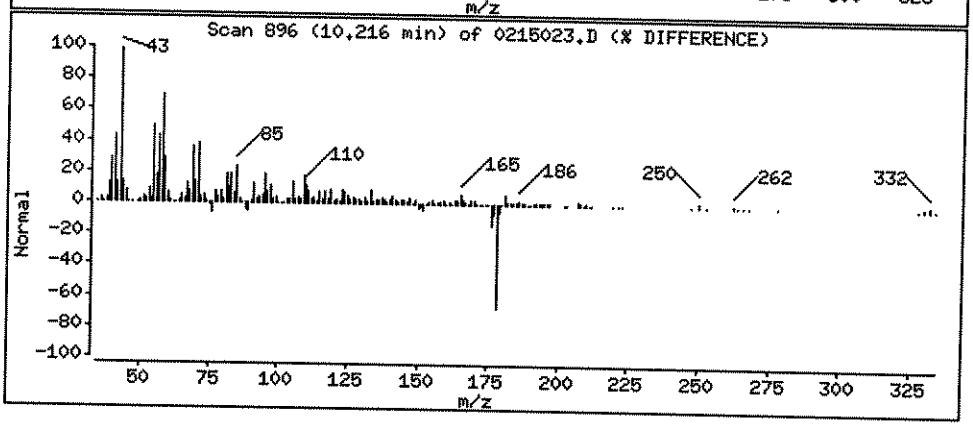
112 Anthracene

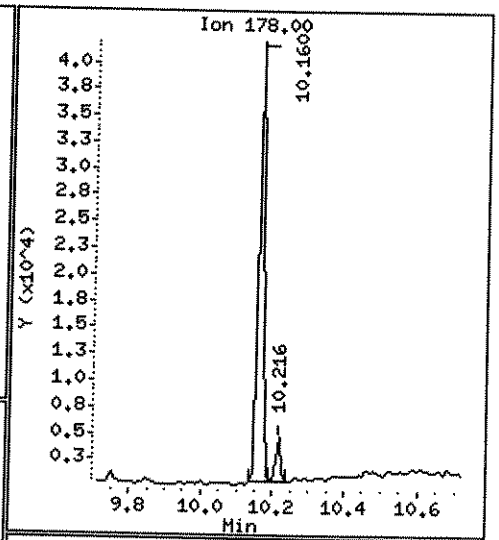
Concentration: 2.688 ug/Kg

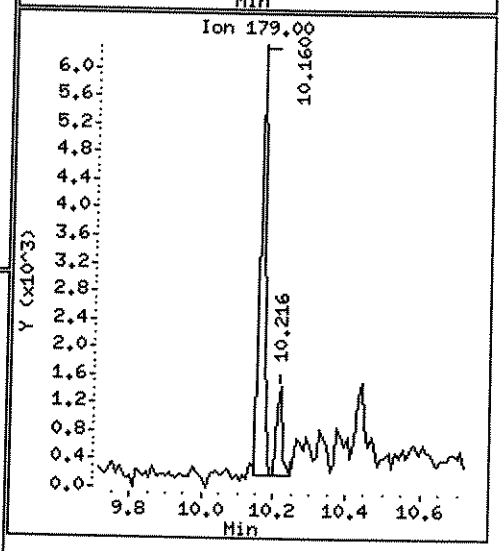












Data File: \\ELABNSH05\TARGET\chem\bna4.i\022812B4.b\0215023.D

Date : 29-FEB-2012 02:54

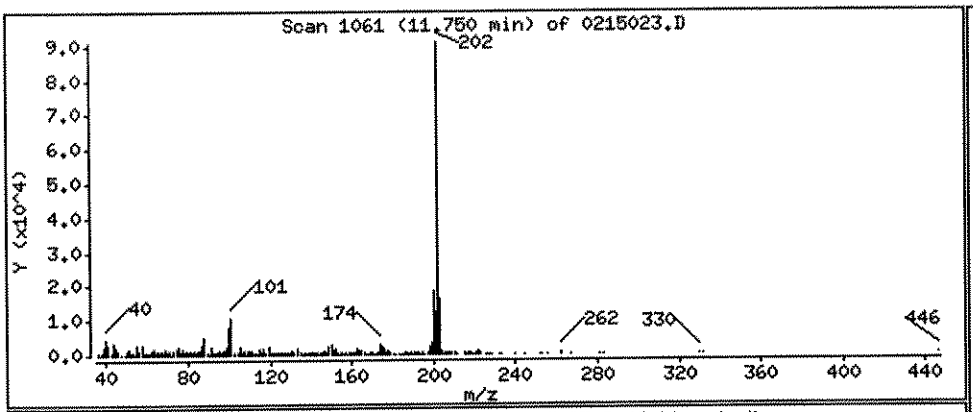
Client ID: FLC-4-P09-0006-0221 Instrument: bna4.i

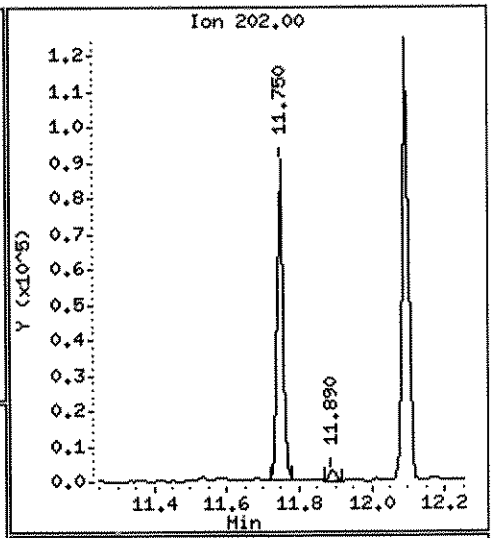
Sample Info: 1202150-23;1;15;1000;1;ug/Kg;24-FEB-2012

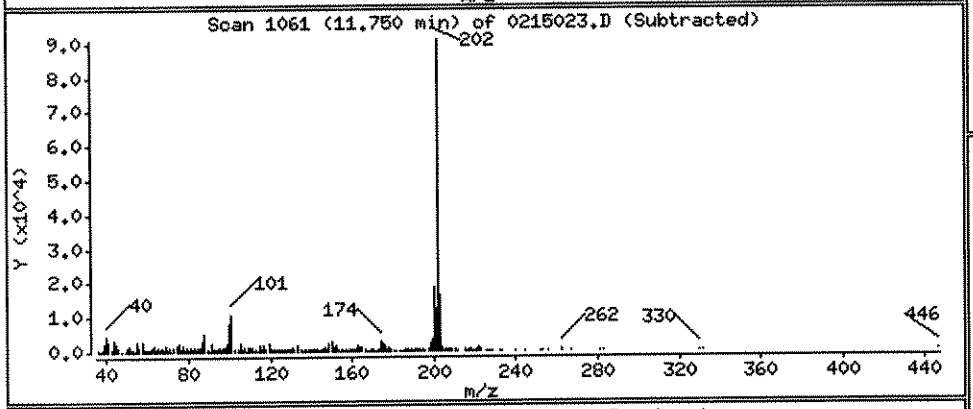
Volume Injected (uL): 1.0 Operator: MEC

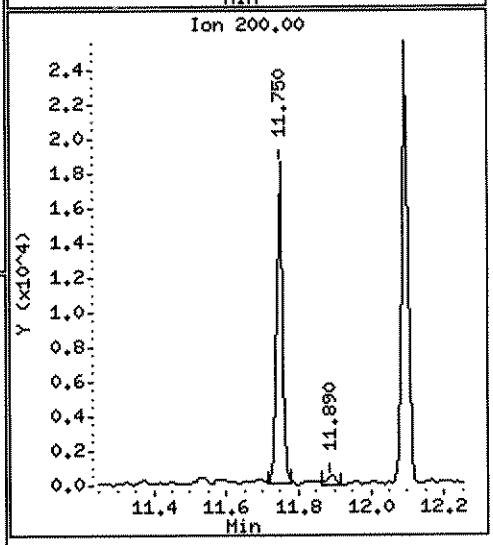
Column phase: fused silica Column diameter: 0.25

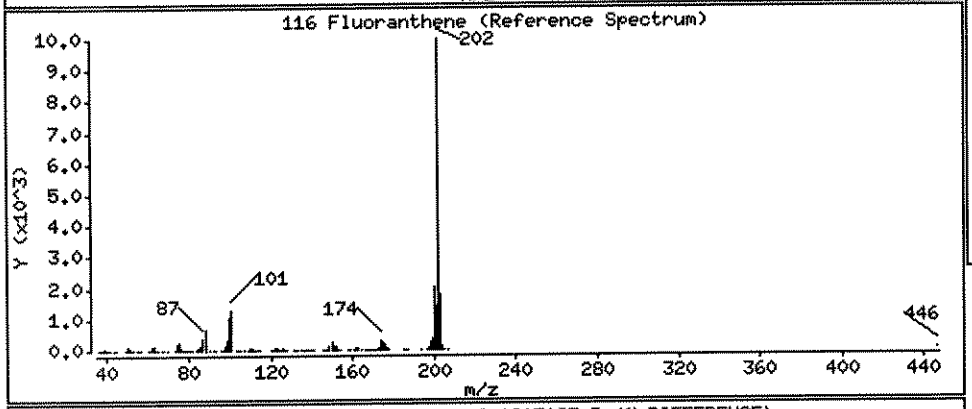
116 Fluoranthene Concentration: 66.73 ug/Kg

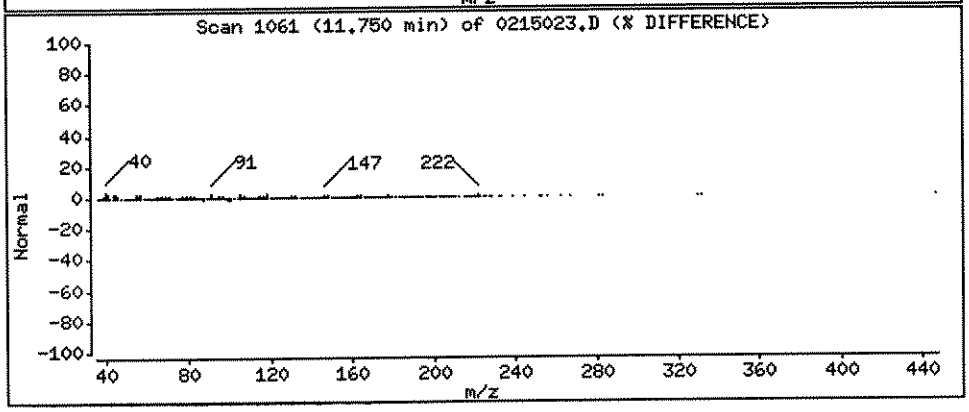












Data File: \\ELABNSH05\TARGET\chem\bna4.i\022812B4.b\0215023.D

Date : 29-FEB-2012 02:54

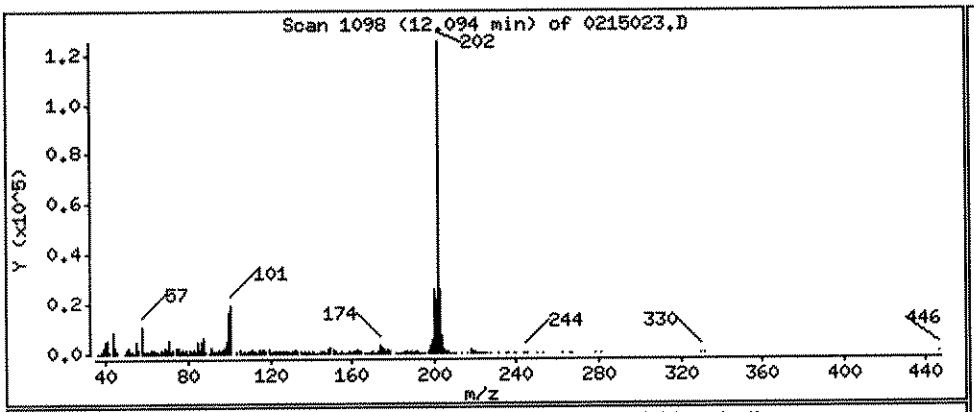
Client ID: FLC-4-P09-0006-0221 Instrument: bna4.i

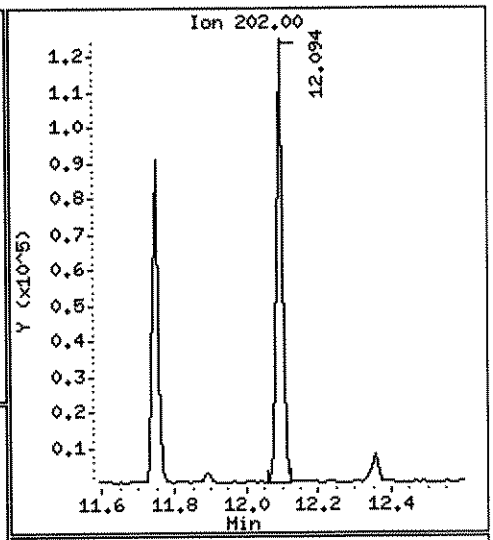
Sample Info: 1202150-23;1;15;1000;1;ug/Kg;24-FEB-2012

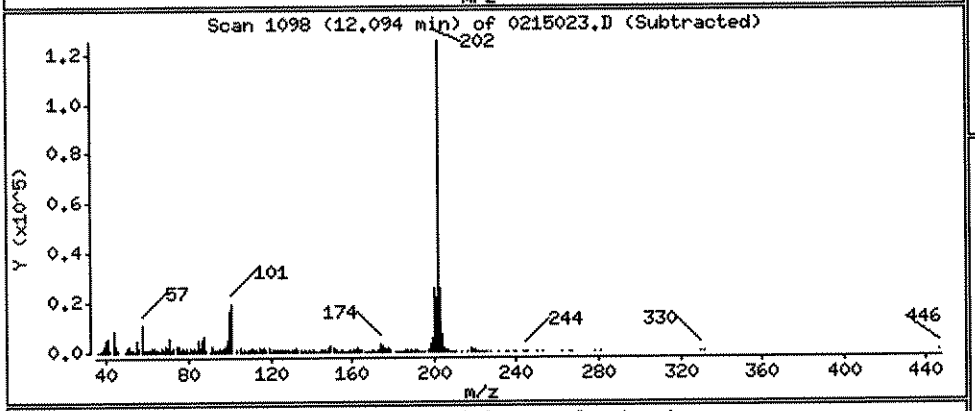
Volume Injected (uL): 1.0 Operator: MEC

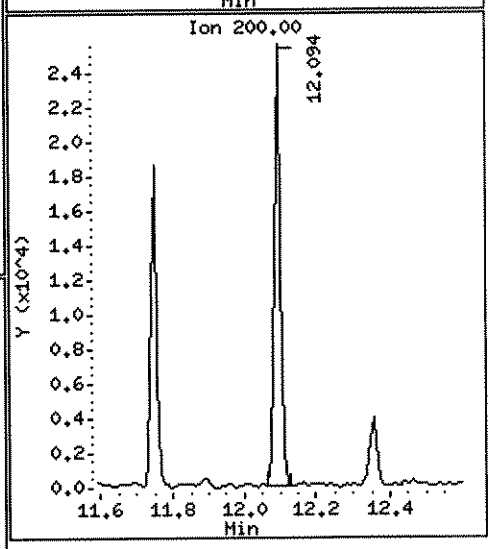
Column phase: fused silica Column diameter: 0.25

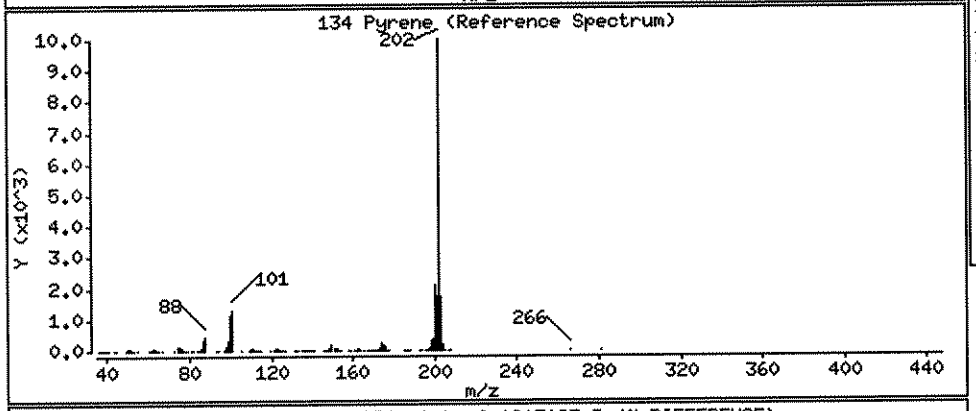
134 Pyrene Concentration: 93.74 ug/Kg

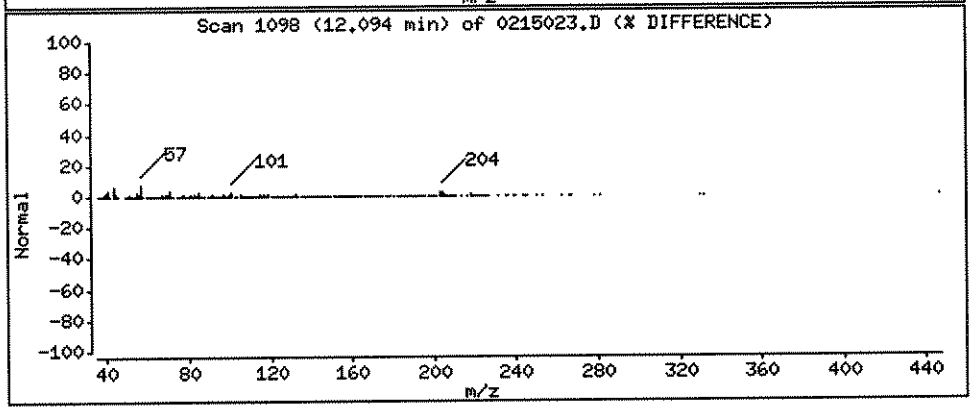












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Date : 29-FEB-2012 02:54

Client ID: FLC-4-P09-0006-0221

Instrument: bna4.i

Sample Info: 1202150-23;1;15;1000;1;ug/Kg;24-FEB-2012

Volume Injected (uL): 1.0

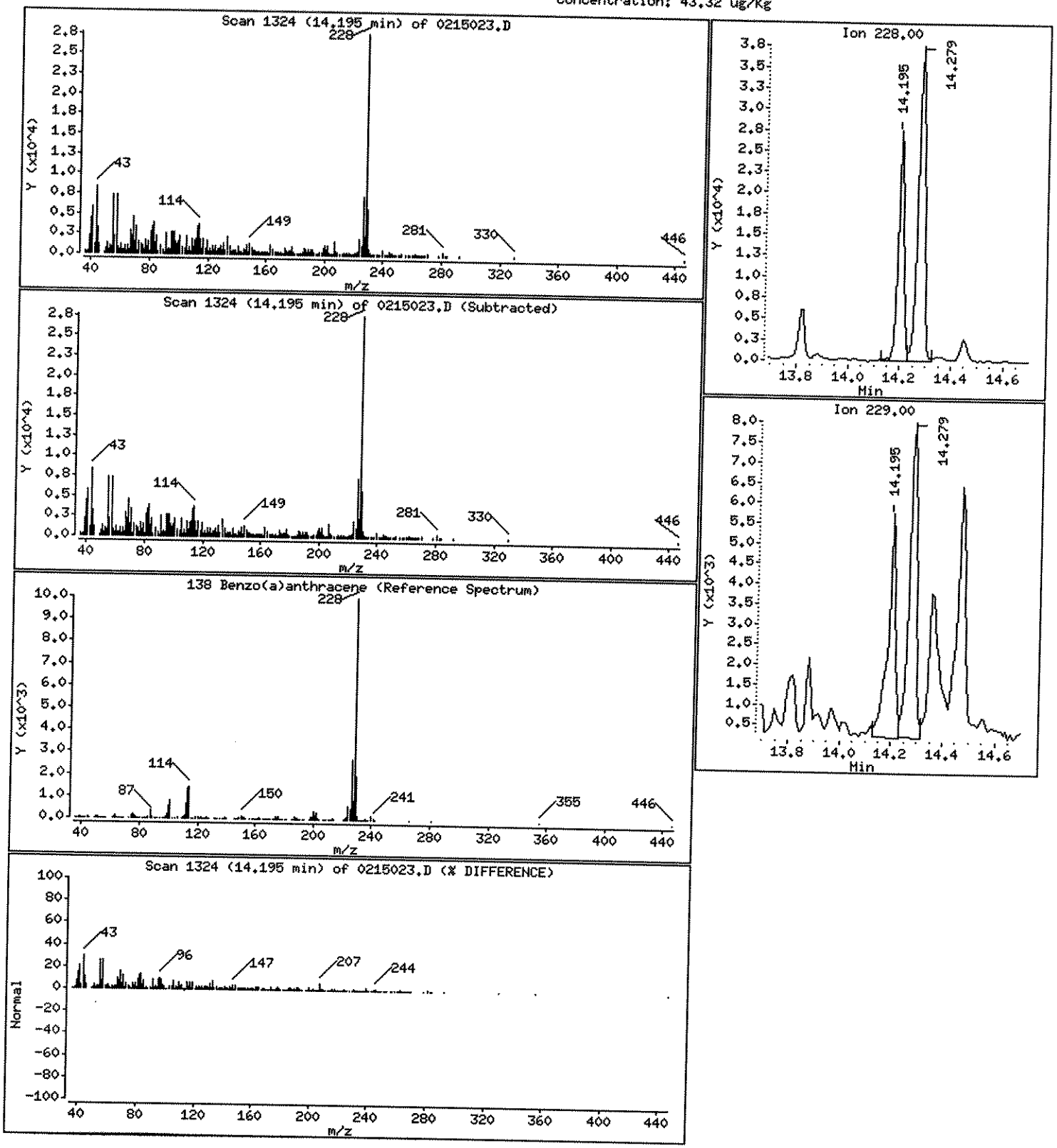
Operator: MEC

Column phase: fused silica

Column diameter: 0.25

138 Benzo(a)anthracene

Concentration: 43.32 ug/Kg



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Date : 29-FEB-2012 02:54

Client ID: FLC-4-P09-0006-0221

Instrument: bna4.i

Sample Info: 1202150-23;1;15;1000;1;ug/Kg;24-FEB-2012

Volume Injected (uL): 1.0

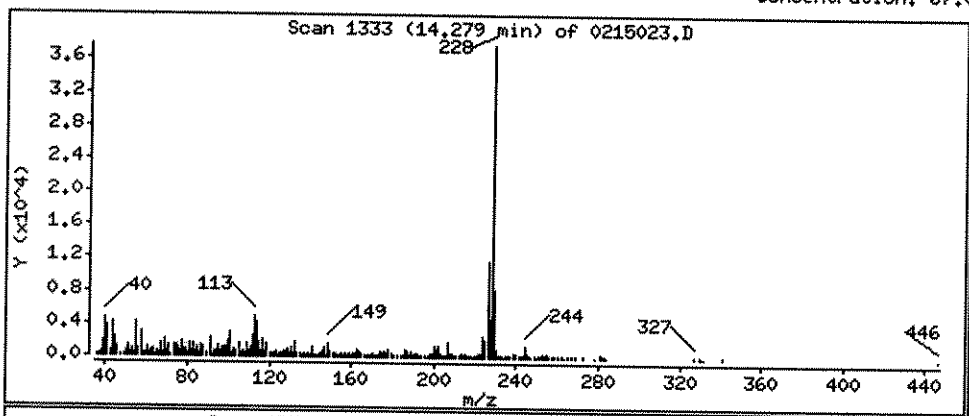
Operator: MEC

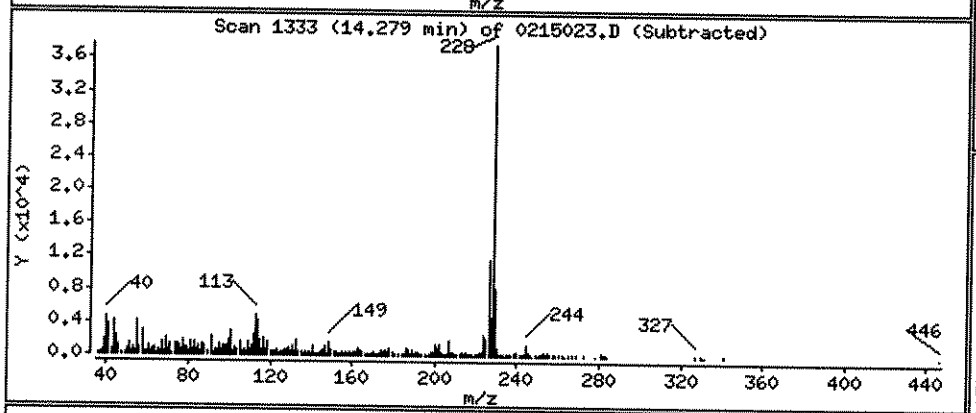
Column phase: fused silica

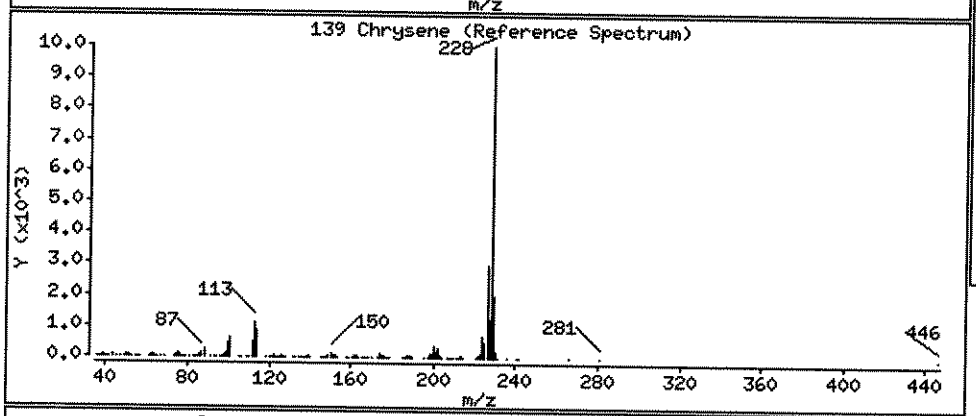
Column diameter: 0.25

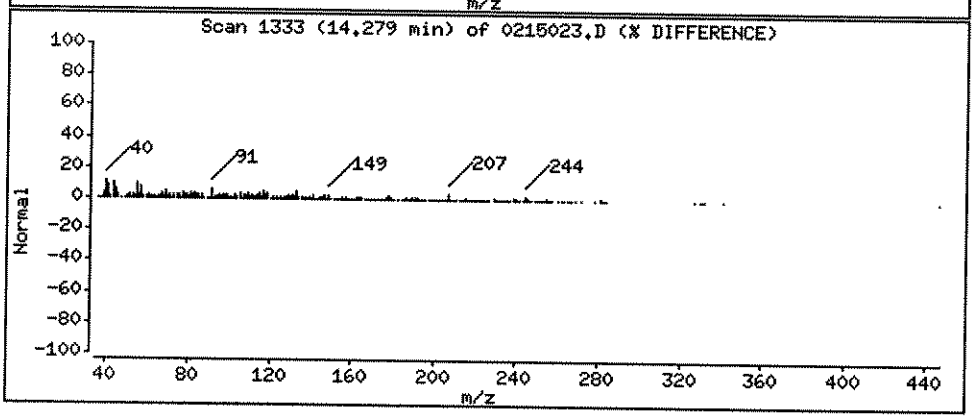
139 Chrysene

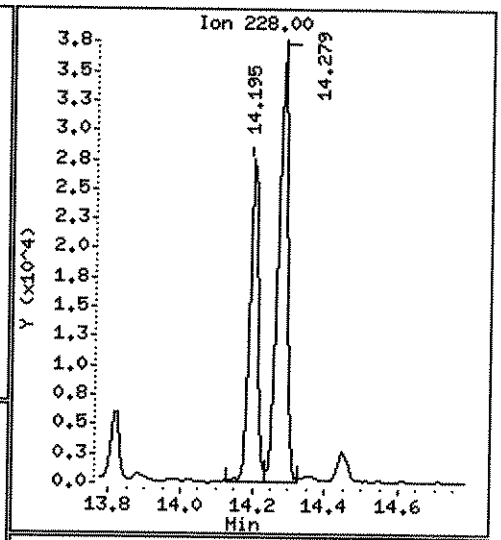
Concentration: 67.07 ug/Kg

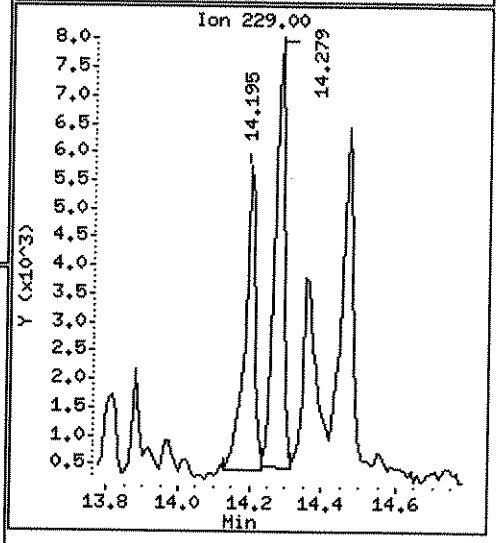






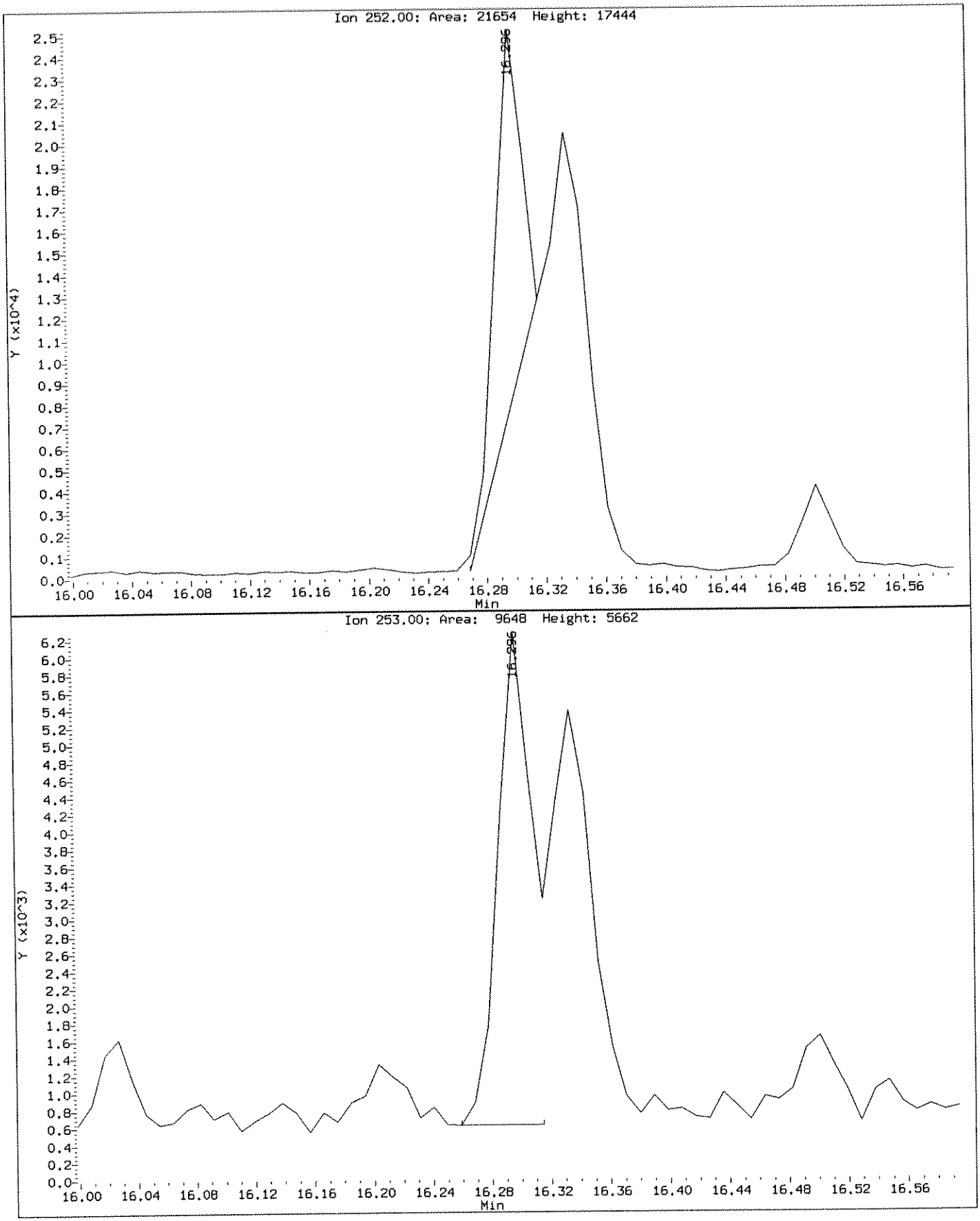






Data File: \\ELABNSHO5\TARGET\chem\bna4.i\022B12B4.b\0215023.D
Injection Date: 29-FEB-2012 02:54
Instrument: bna4.i
Client Sample ID: FLC-4-P09-0006-0221

Compound: Benzo(b)fluoranthene
CAS Number: 205-99-2



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Date : 29-FEB-2012 02:54

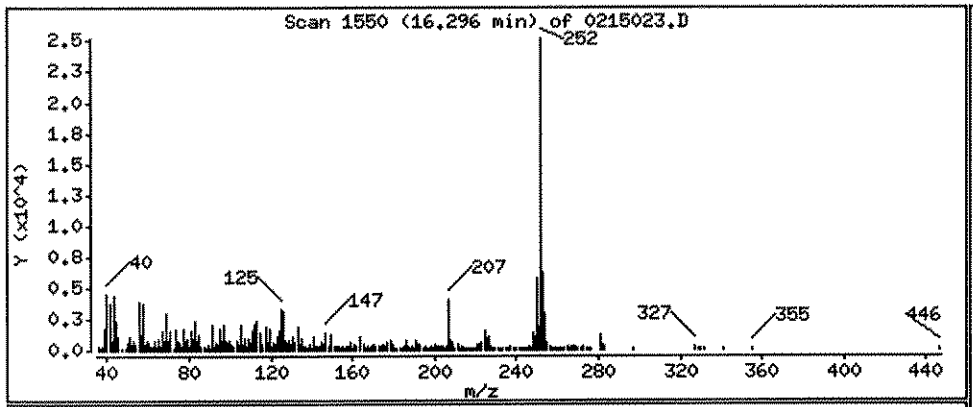
Client ID: FLC-4-P09-0006-0221 Instrument: bna4.i

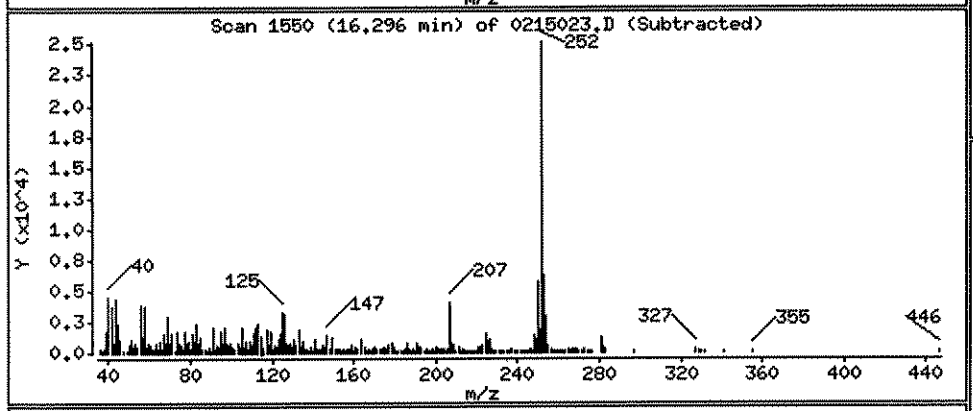
Sample Info: 1202150-23;1;15;1000;1;ug/Kg;24-FEB-2012

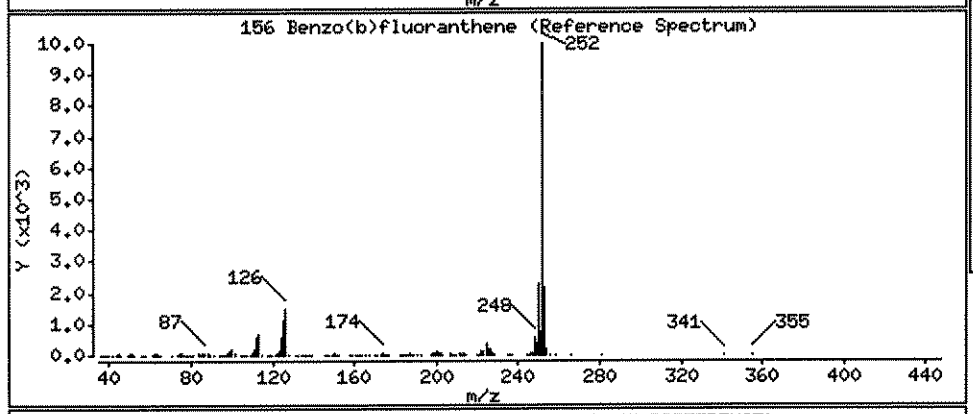
Volume Injected (uL): 1.0 Operator: MEC

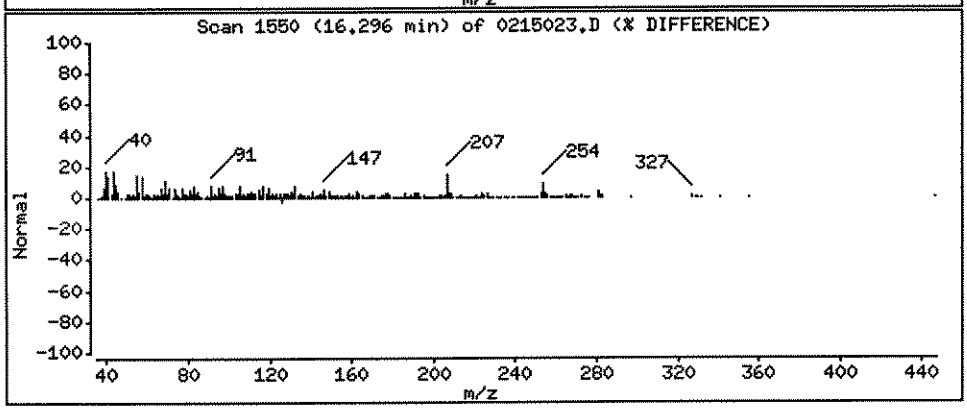
Column phase: fused silica Column diameter: 0.25

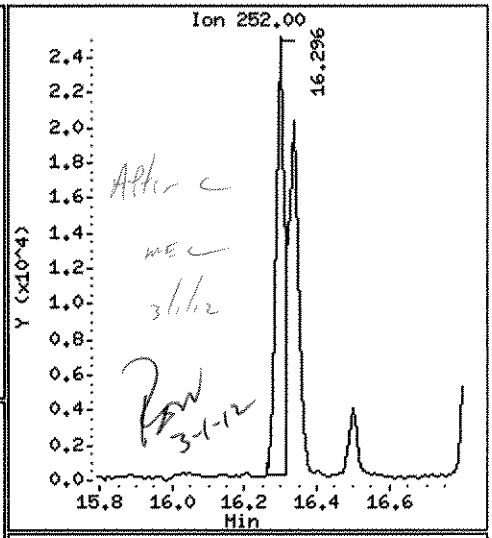
156 Benzo(b)fluoranthene Concentration: 47.18 ug/Kg

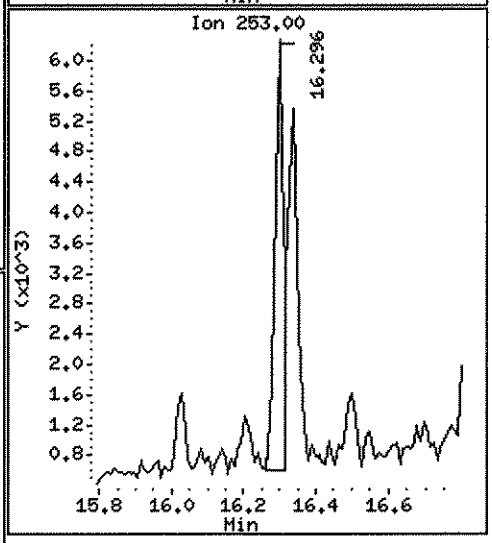












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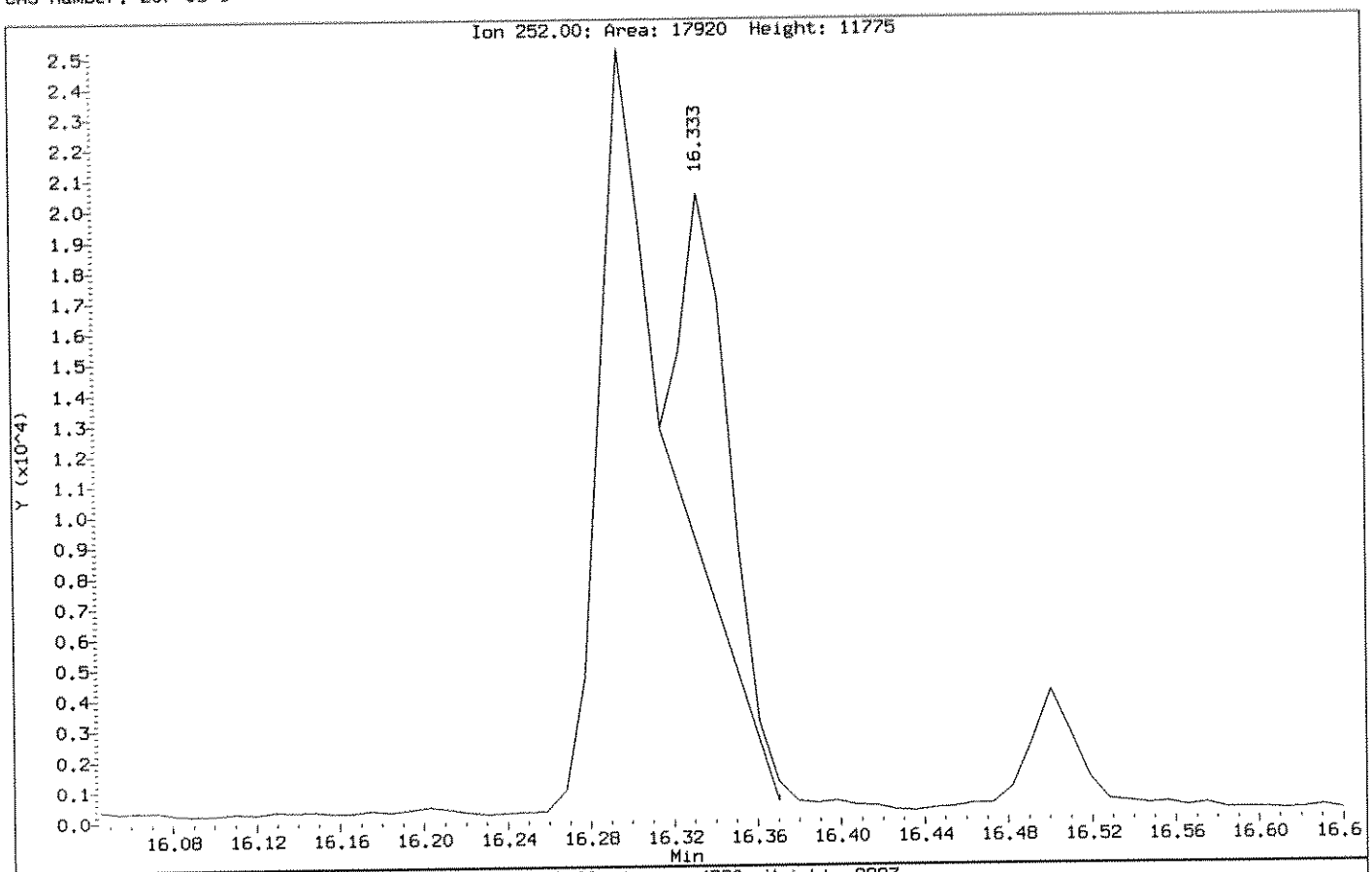
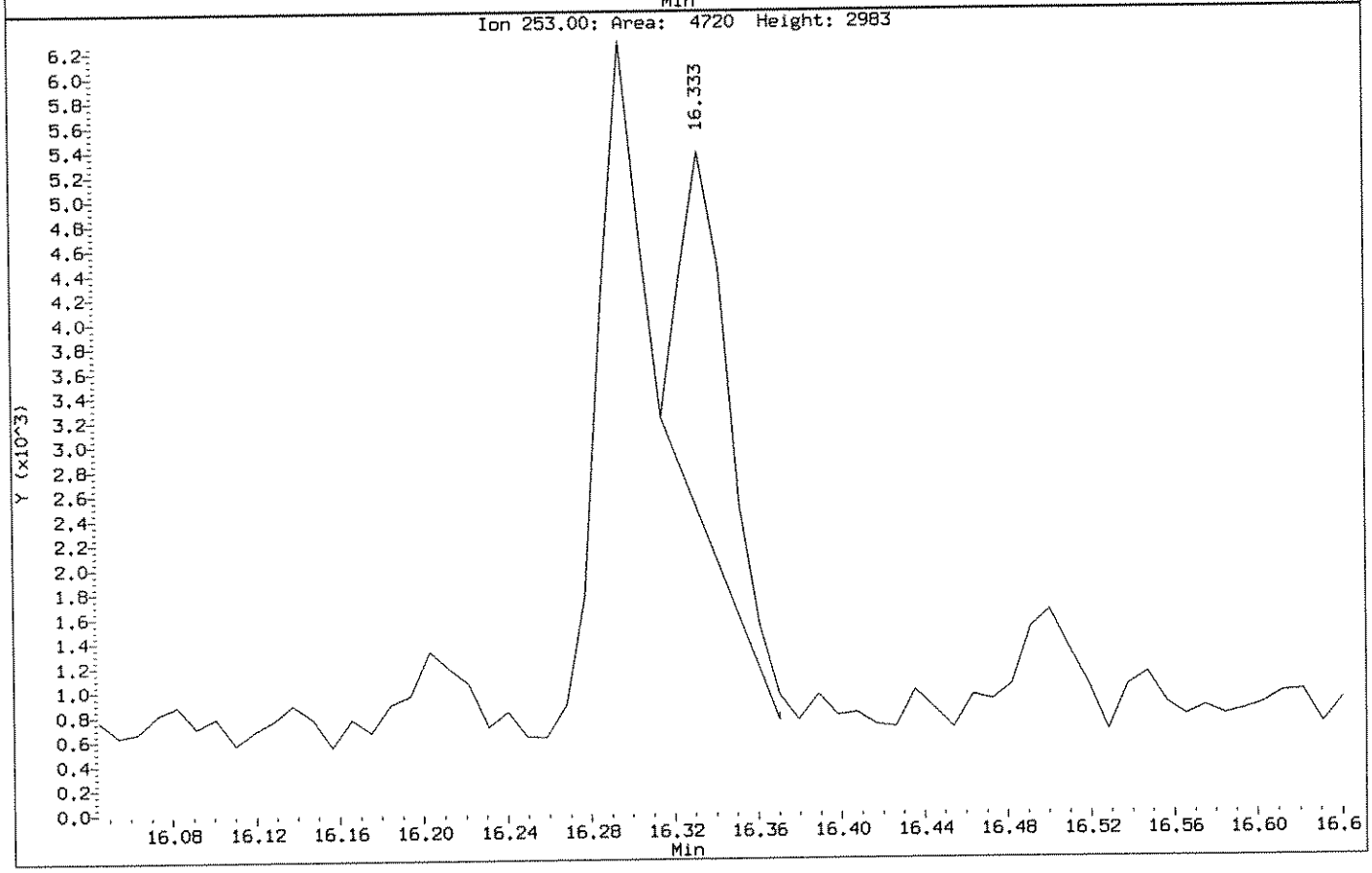
Injection Date: 29-FEB-2012 02:54
Instrument: bna4.i
Client Sample ID: FLC-4-P09-0006-0221

Compound: Benzo(k)fluoranthene
CAS Number: 207-08-9





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Date : 29-FEB-2012 02:54

Client ID: FLC-4-P09-0006-0221

Instrument: bna4.i

Sample Info: 1202150-23;1;15;1000;1;ug/Kg;24-FEB-2012

Volume Injected (uL): 1.0

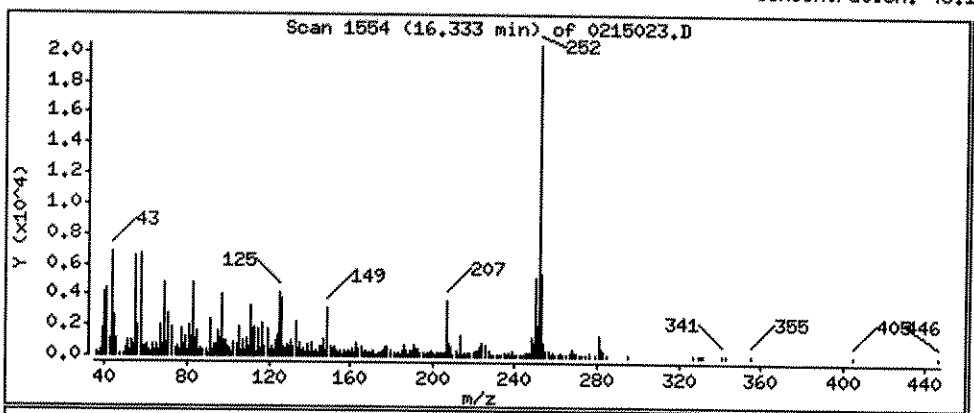
Operator: MEC

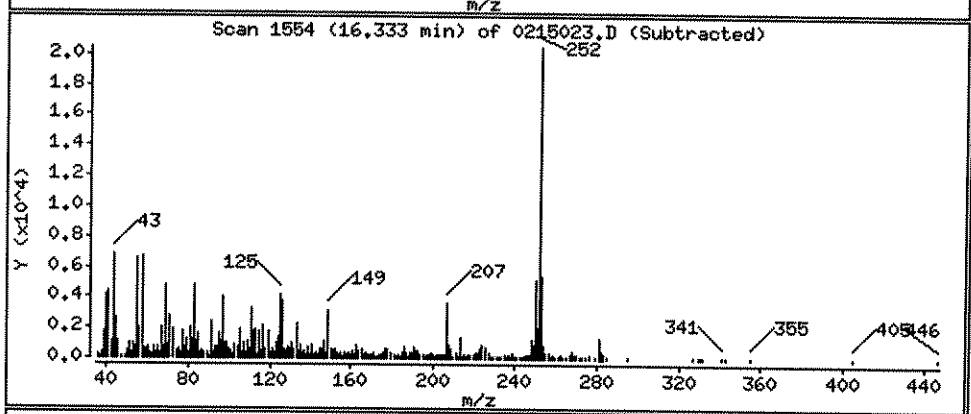
Column phase: fused silica

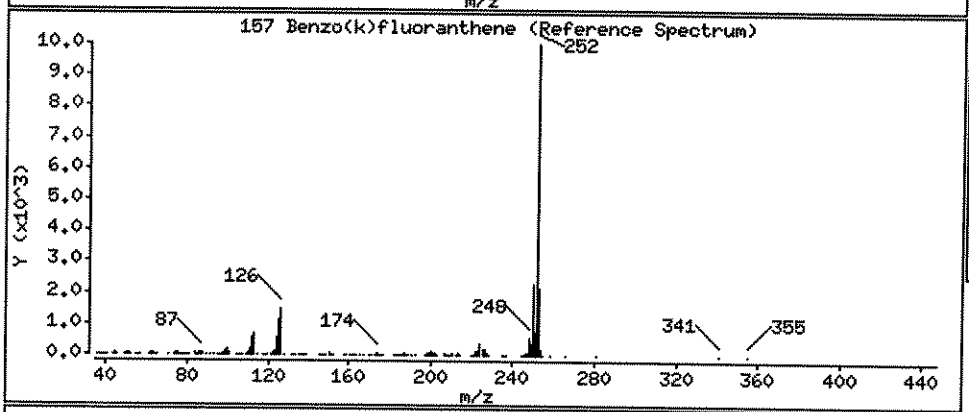
Column diameter: 0.25

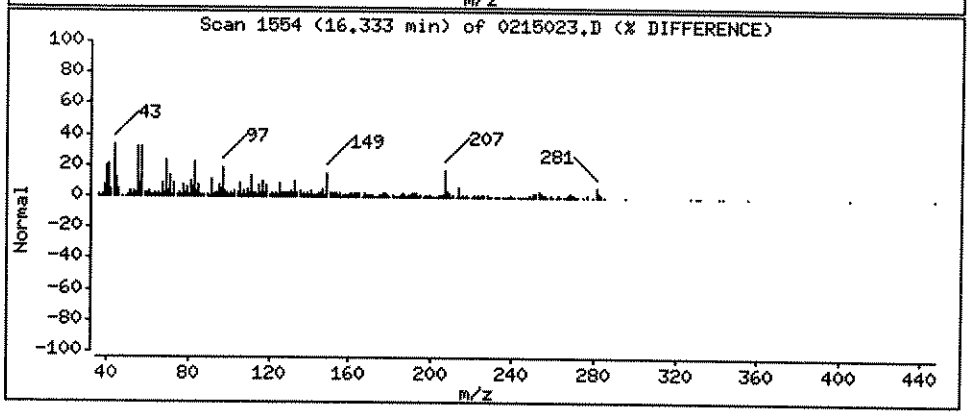
157 Benzo(k)fluoranthene

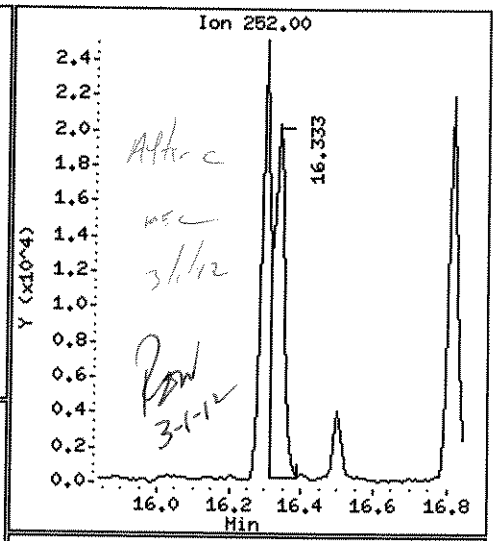
Concentration: 48.14 ug/Kg

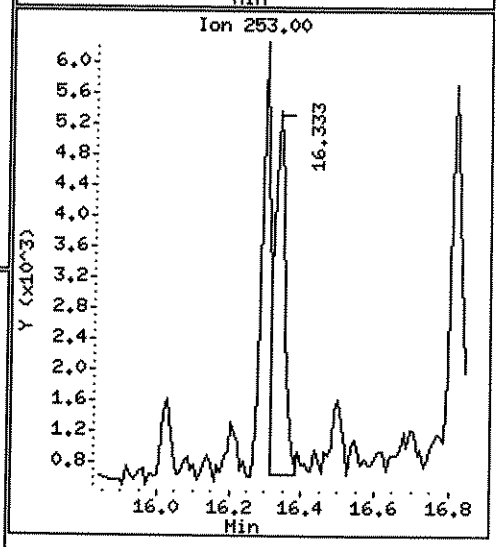












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Date : 29-FEB-2012 02:54

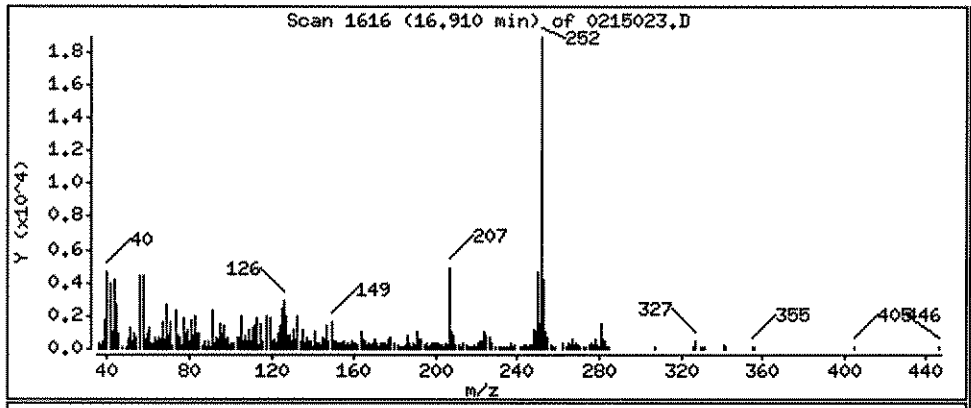
Client ID: FLC-4-P09-0006-0221 Instrument: bna4.i

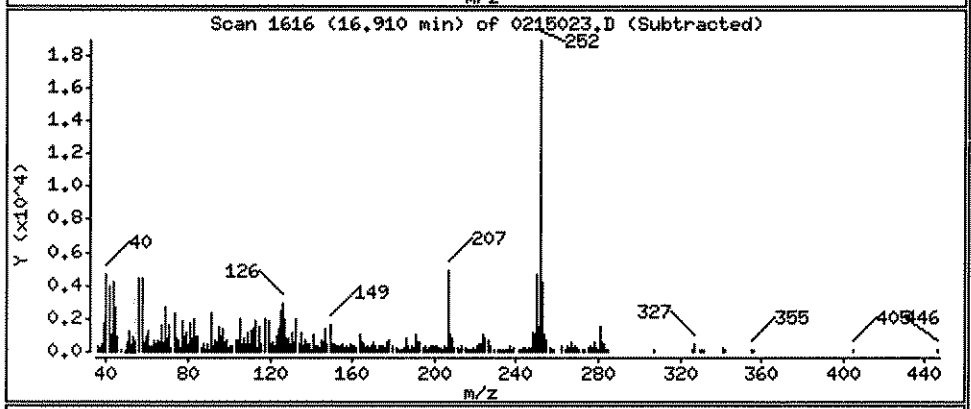
Sample Info: 1202150-23;1;15;1000;1;ug/Kg;24-FEB-2012

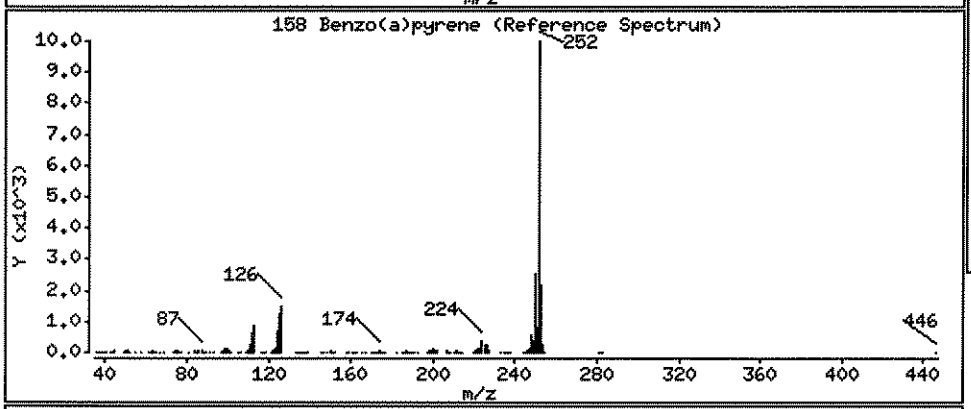
Volume Injected (uL): 1.0 Operator: MEC

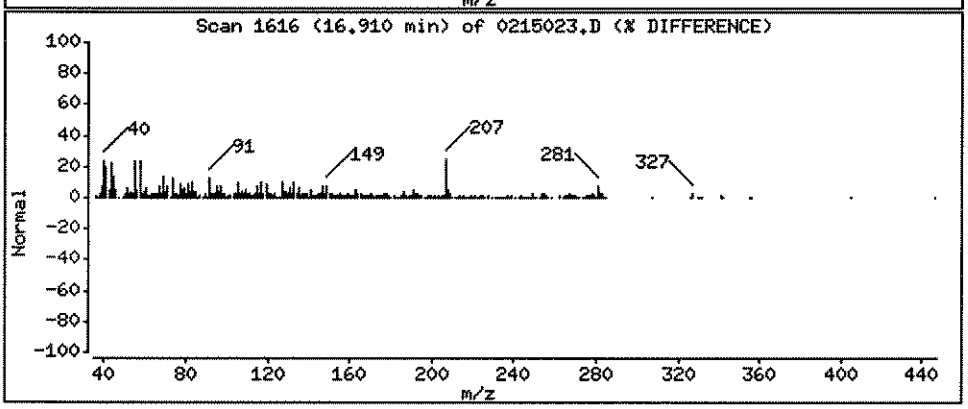
Column phase: fused silica Column diameter: 0.25

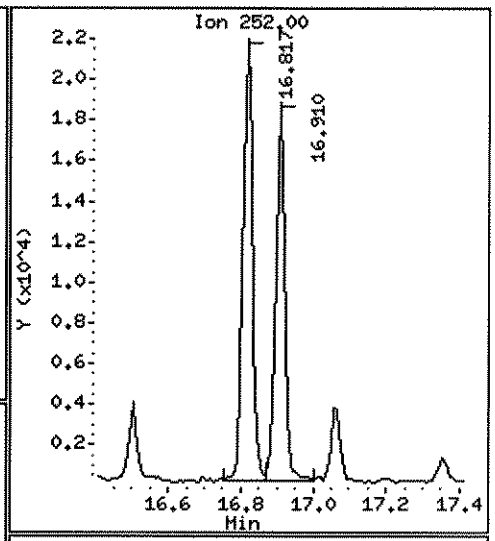
158 Benzo(a)pyrene Concentration: 48.61 ug/Kg

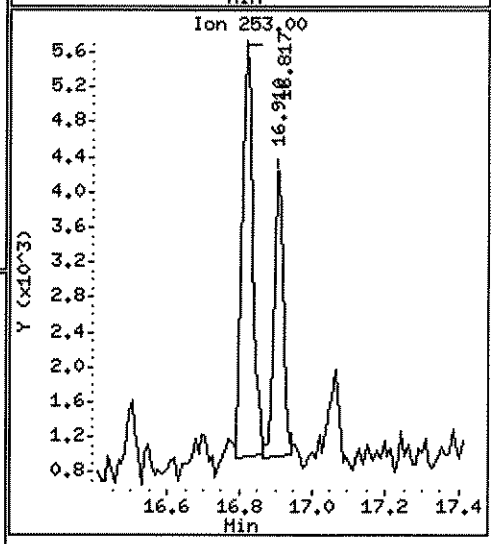












Data File: \\ELABNSH05\TARGET\chem\bna4.i\022812B4.b\0215023.D

Date : 29-FEB-2012 02:54

Client ID: FLC-4-P09-0006-0221

Instrument: bna4.i

Sample Info: 1202150-23;1;15;1000;1;ug/Kg;24-FEB-2012

Volume Injected (uL): 1.0

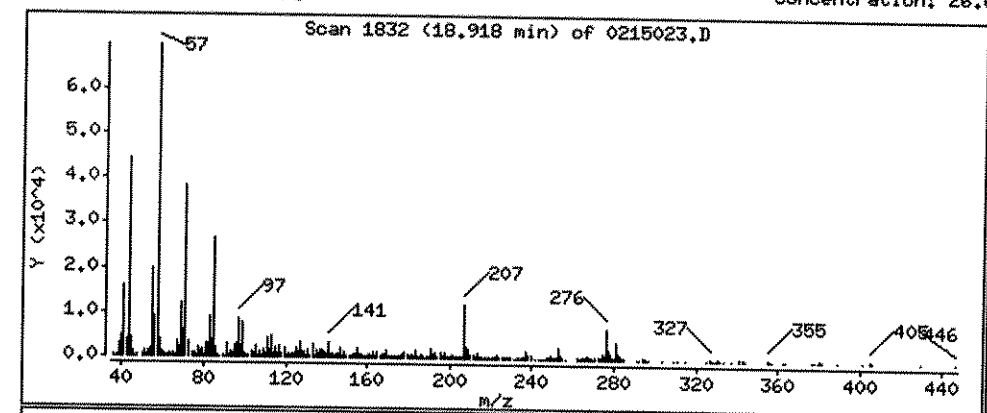
Operator: MEC

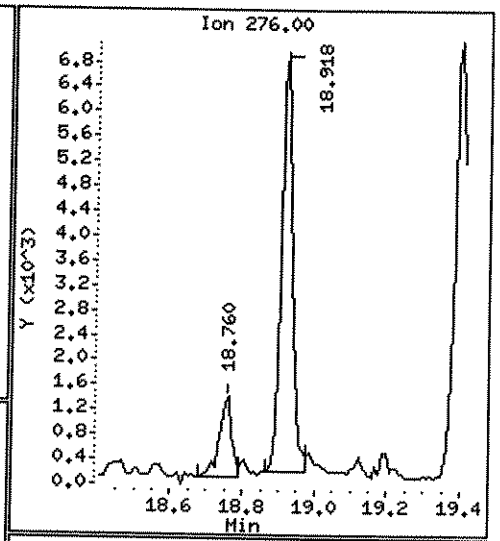
Column phase: fused silica

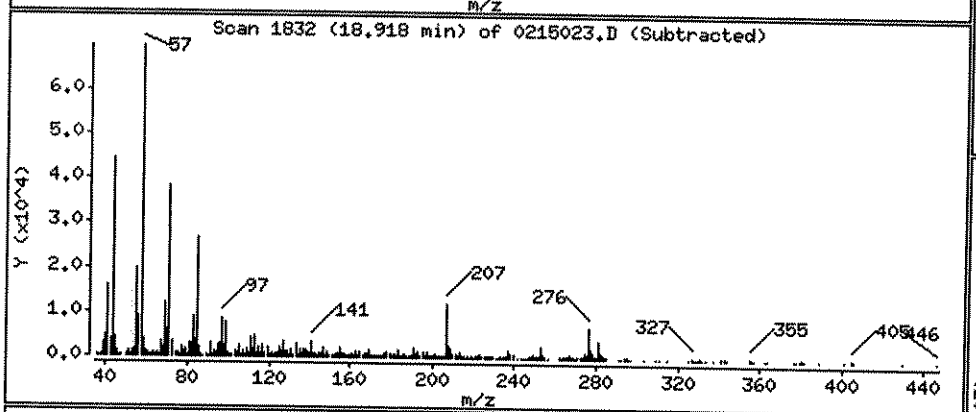
Column diameter: 0.25

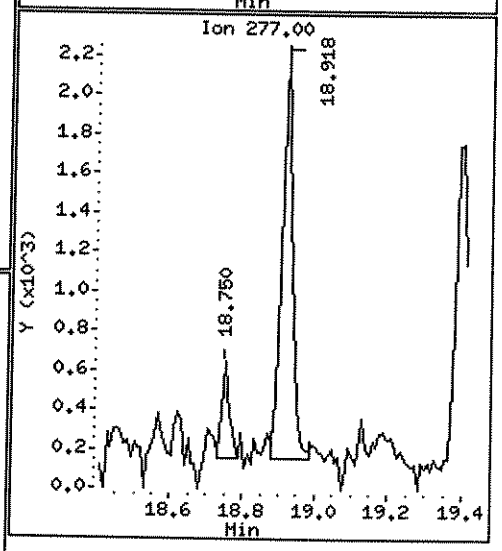
159 Indeno(1,2,3-cd)pyrene

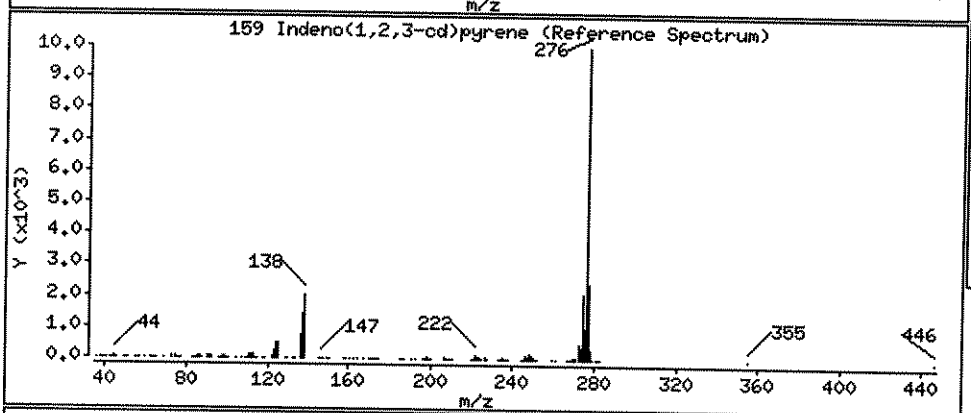
Concentration: 26.61 ug/Kg

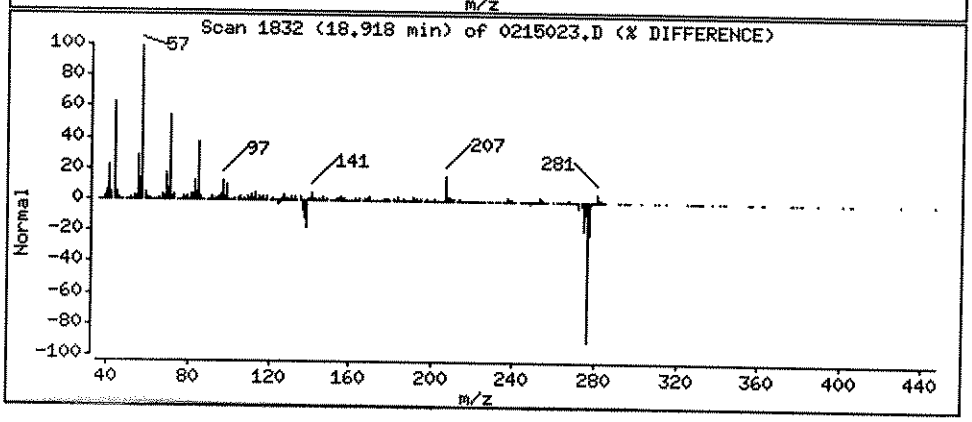












Data File: \\ELABNSH05\TARGET\chem\bna4.i\022812B4.b\0215023.D

Date : 29-FEB-2012 02:54

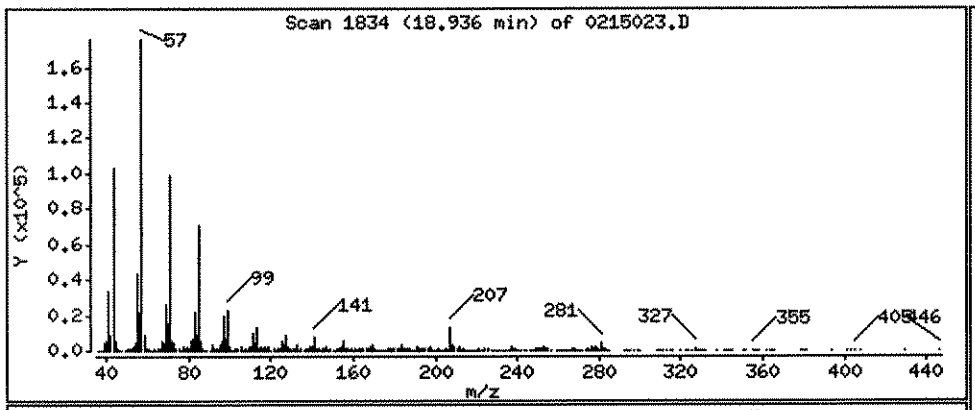
Client ID: FLC-4-P09-0006-0221 Instrument: bna4.i

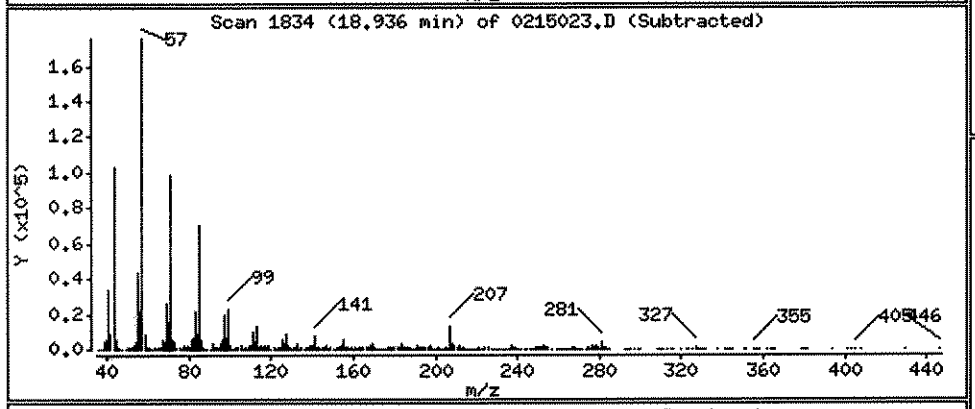
Sample Info: 1202150-23;1;15;1000;1;ug/Kg;24-FEB-2012

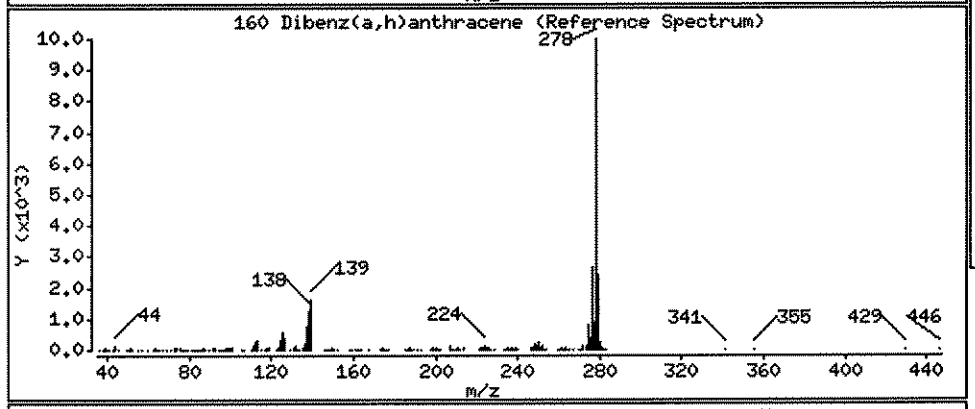
Volume Injected (uL): 1.0 Operator: MEC

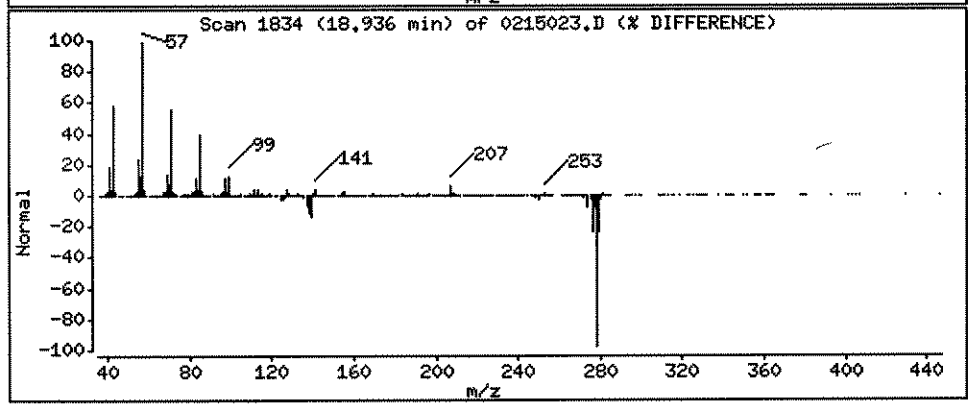
Column phase: fused silica Column diameter: 0.25

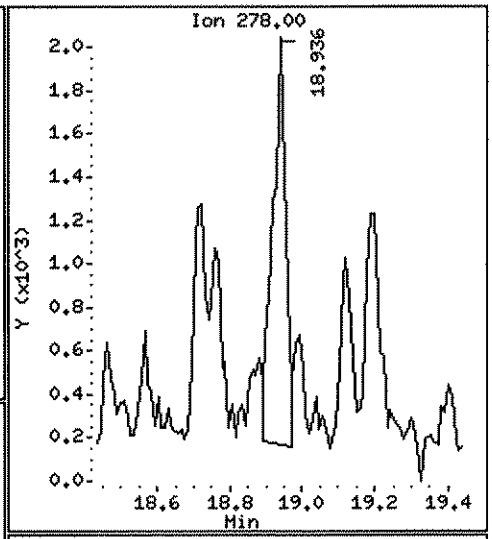
160 Dibenz(a,h)anthracene Concentration: 11.74 ug/Kg

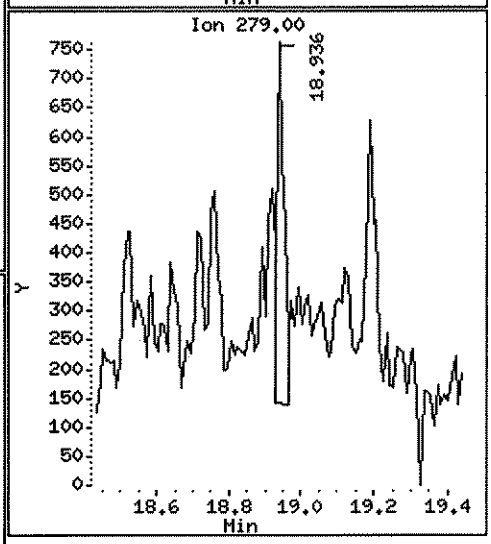












Data File: \\ELABNSHOS\TARGET\chem\bna4.i\02281284.b\0215023.D

Date : 29-FEB-2012 02:54

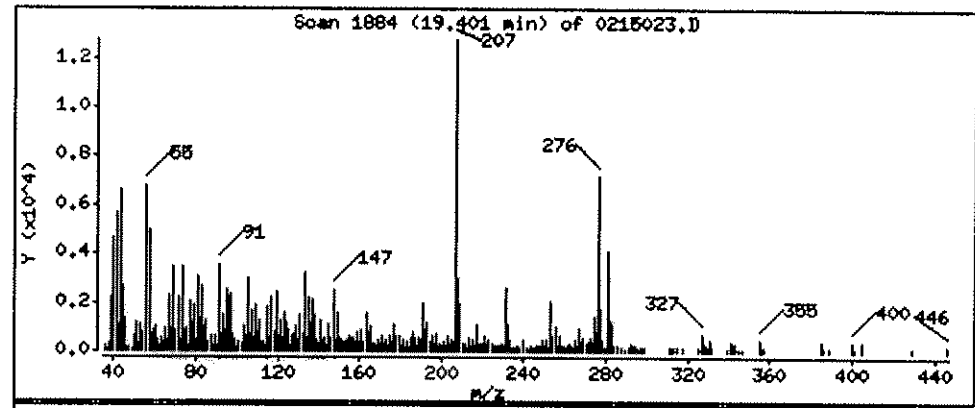
Client ID: FLC-4-P09-0006-0221 Instrument: bna4.i

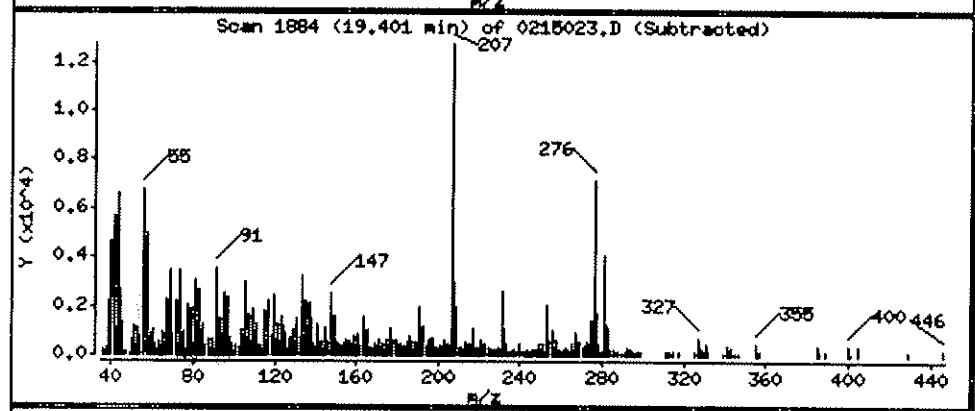
Sample Info: 1202150-23;1;15;1000;1;ug/Kg;24-FEB-2012

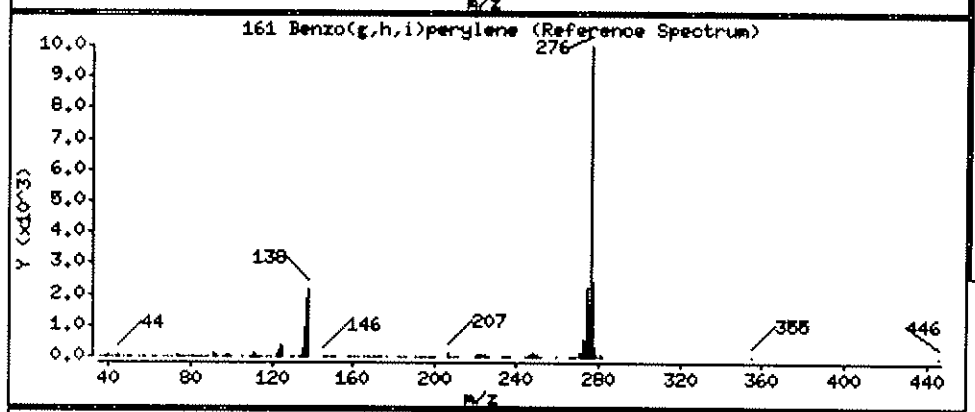
Volume Injected (uL): 1.0 Operator: MEC

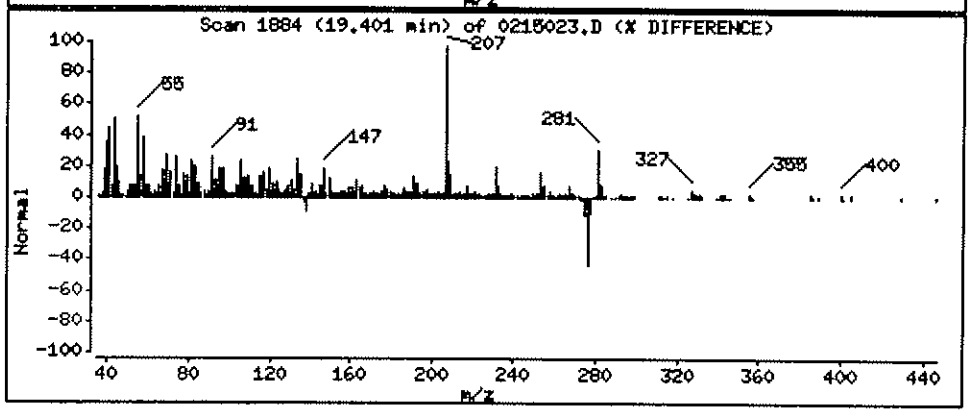
Column phase: fused silica Column diameter: 0.25

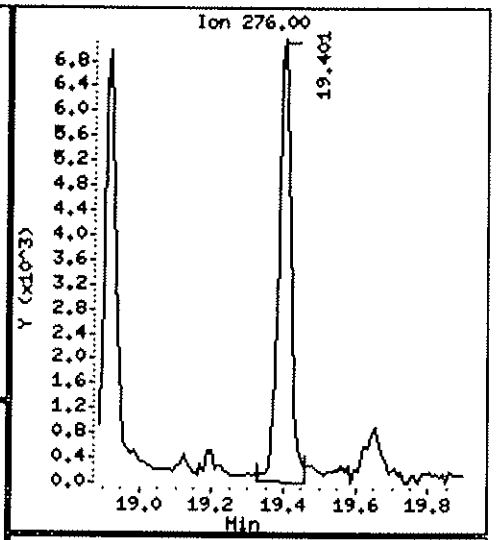
161 Benzo(g,h,i)perylene Concentration: 35.88 ug/Kg

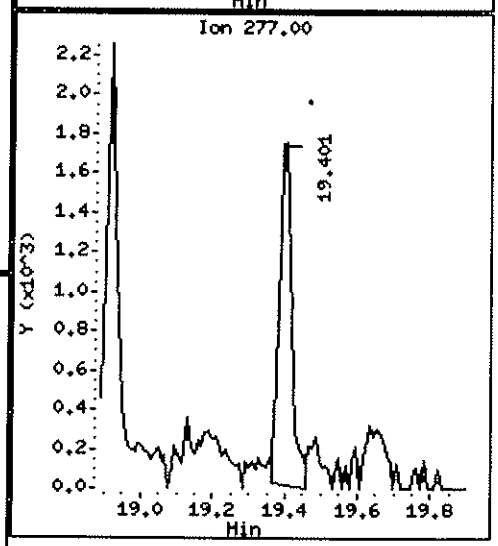












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Report Date: 01-Mar-2012 11:10

Laboratory Name

Data file : \\ELABNSH05\TARGET\chem\bna4.i\022812B4.b\0215024.D
Lab Smp Id: 1202150-24 Client Smp ID: FLC-4-PO9-0624-0221
Inj Date : 29-FEB-2012 03:22 MS Autotune Date: 15-FEB-2012 09:23
Operator : MEC Inst ID: bna4.i
Smp Info : 1202150-24;1;15;1000;1;ug/Kg;24-FEB-2012
Misc Info : ;0;;;;2B24004;pahlow.sub;
Comment :
Method : \\ELABNSH05\TARGET\chem\bna4.i\022812B4.b\IXBN4LOW.m
Meth Date : 01-Mar-2012 11:03 mcobb Quant Type: ISTD
Cal Date : 20-FEB-2012 16:29 Cal File: SEQ-CAL1.D
Als bottle: 22
Dil Factor: 1.00000
Integrator: HP RTE Compound Sublist: pahlow.sub
Target Version: 4.04
Processing Host: TARGET09_VM

Concentration Formula: Amt * DF * Uf * Vt*Vi/(Amt * Vi * (Solids/100))

Name	Value	Description
DF	1.000	Dilution Factor
Uf	1.000	ng unit correction factor
Vt	1000.000	Volume of final extract (uL)(1000 low, 2
Amt	15.000	Mass of initial extraction
Vi	1.000	Volume injected (uL)
Solids	100.000	Percent Solids

RZW 3-1-12

Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS ON-COLUMN (ng/ul)	FINAL (ug/Kg)
$ 74 2-Fluorobiphenyl	172	7.501	7.492	(0.740)	3054673	38.9329	2596
* 102 Phenanthrene-d10	188	10.132	10.132	(1.000)	97594	1.00000	
111 Phenanthrene	178	10.160	10.160	(1.003)	2711	0.02813	1.875(a)
116 Fluoranthene	202	11.750	11.750	(1.160)	4095	0.04135	2.757(a)
134 Pyrene	202	12.094	12.094	(1.194)	5203	0.05101	3.400
* 154 Perylene-d12	264	17.012	17.011	(1.000)	49715	1.00000	
$ 135 Terphenyl-d14	244	12.354	12.345	(1.219)	3404805	50.4811	3365(A)
138 Benzo(a)anthracene	228	14.195	14.195	(1.401)	1976	0.03069	2.046(aM)
139 Chrysene	228	14.279	14.278	(1.409)	2755	0.04280	2.854(a)
156 Benzo(b)fluoranthene	252	16.296	16.296	(0.958)	2501	0.04012	2.675(aM)
157 Benzo(k)fluoranthene	252	16.333	16.342	(0.960)	1898	0.03090	2.060(aM)

MEC
3/1/12

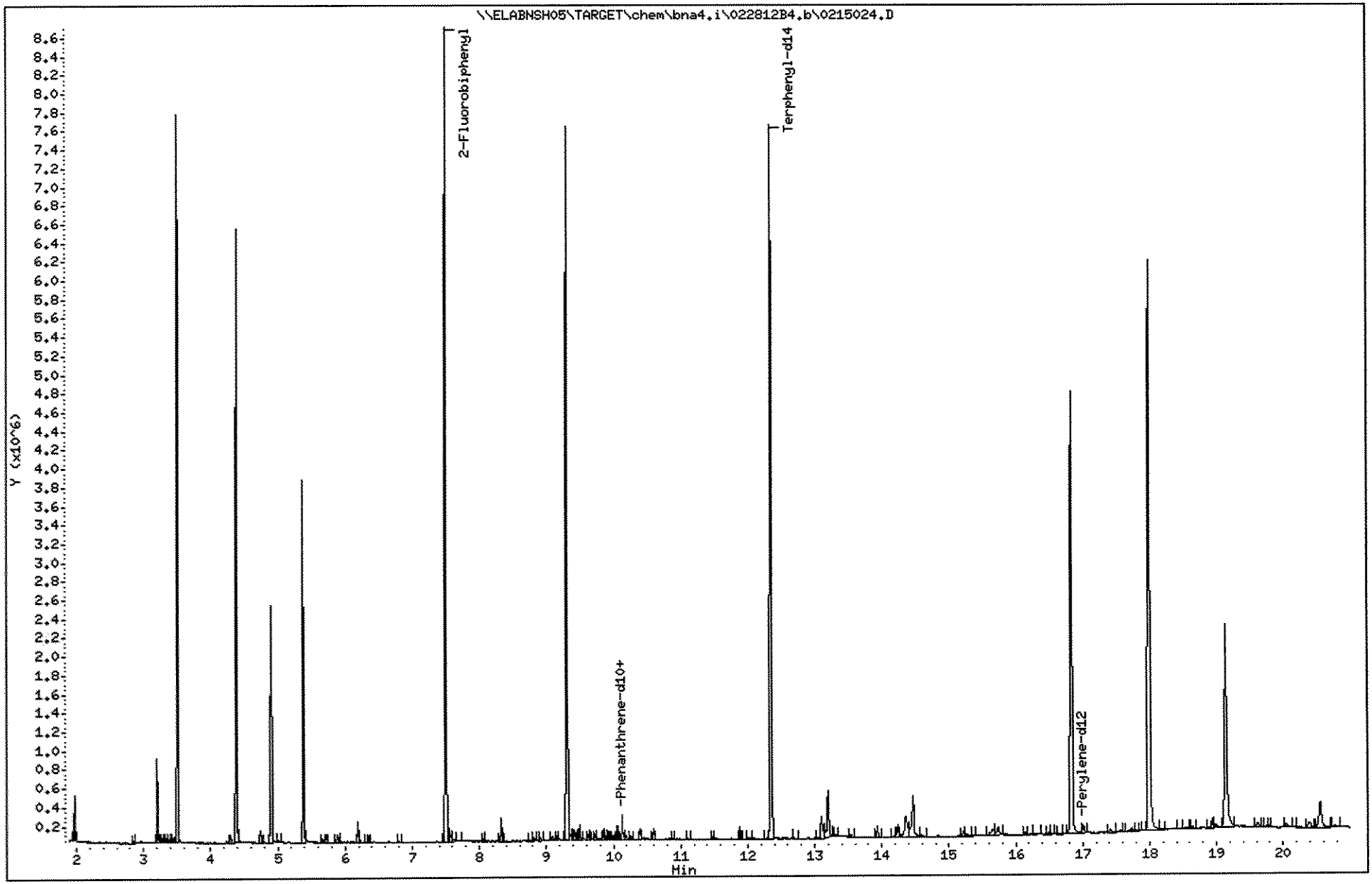
Data File: \\ELABNSH05\TARGET\chem\bna4.i\022812B4.b\0215024.D
Report Date: 01-Mar-2012 11:10

QC Flag Legend

a - Target compound detected but, quantitated amount
    Below Limit Of Quantitation(BLOQ).
A - Target compound detected but, quantitated amount
    exceeded maximum amount.
M - Compound response manually integrated.

Data File: \\ELABNSH05\TARGET\chem\bna4.i\022812B4.b\0215024.D
Date : 29-FEB-2012 03:22
Client ID: FLC-4-P09-0624-0221
Sample Info: 1202150-24;1;15;1000;1;ug/Kg;24-FEB-2012
Volume Injected (uL): 1.0
Column phase: fused silica

Instrument: bna4.i
Operator: MEC
Column diameter: 0.25



1202150

Data File: \\ELABNSH05\TARGET\chem\bna4.i\022812B4.b\0215024.D

Date : 29-FEB-2012 03:22

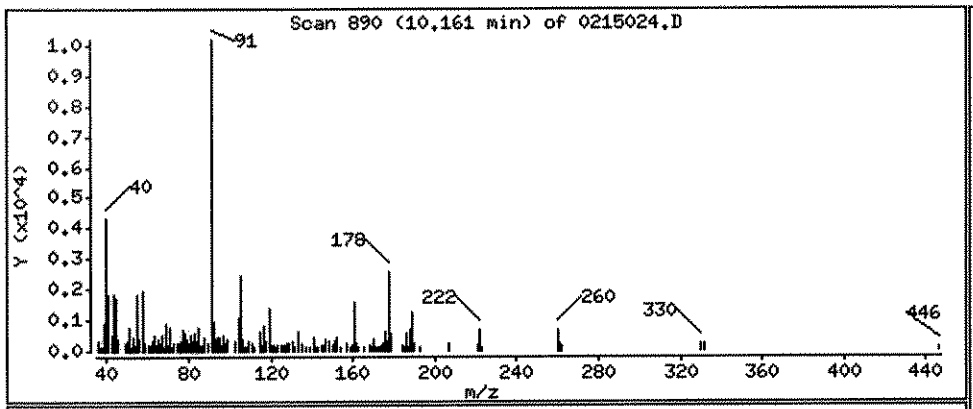
Client ID: FLC-4-P09-0624-0221 Instrument: bna4.i

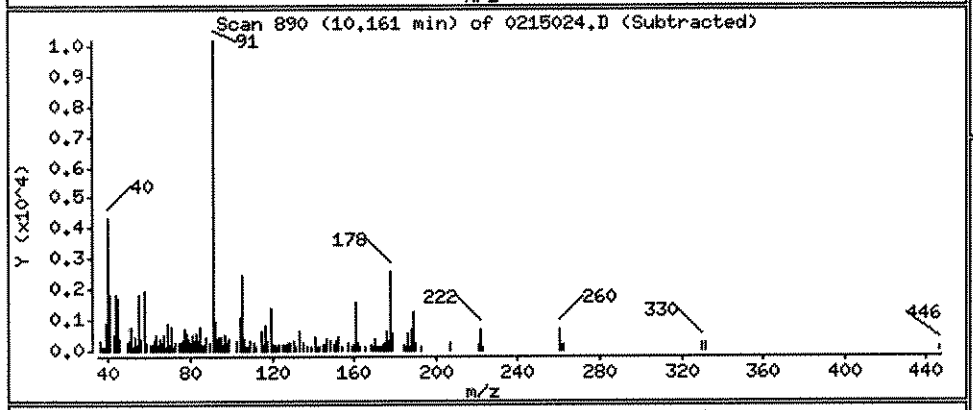
Sample Info: 1202150-24;1;15;1000;1;ug/Kg;24-FEB-2012

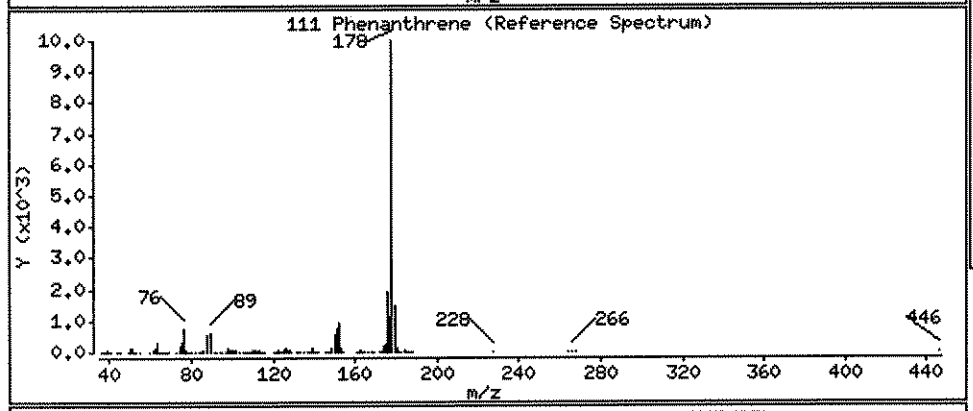
Volume Injected (uL): 1.0 Operator: MEC

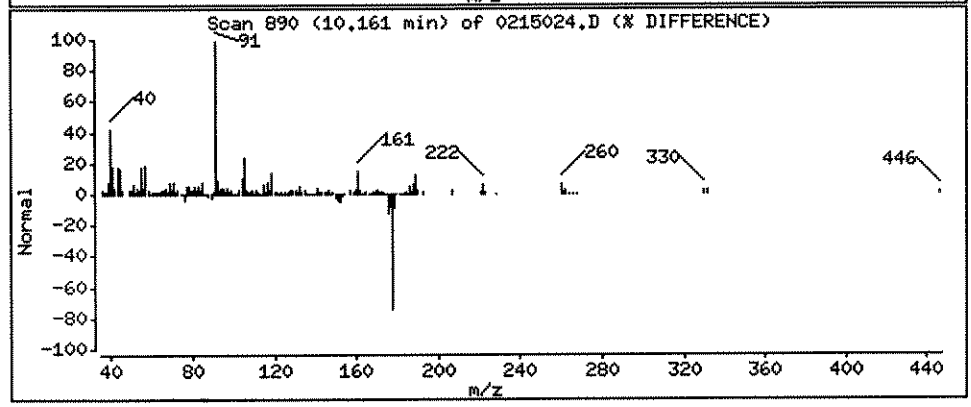
Column phase: fused silica Column diameter: 0.25

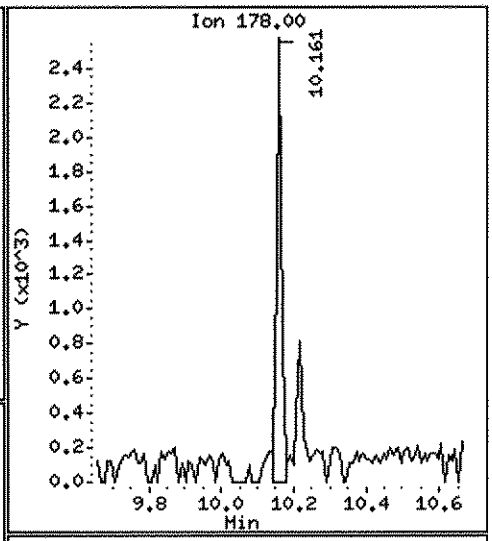
111 Phenanthrene Concentration: 1.875 ug/Kg

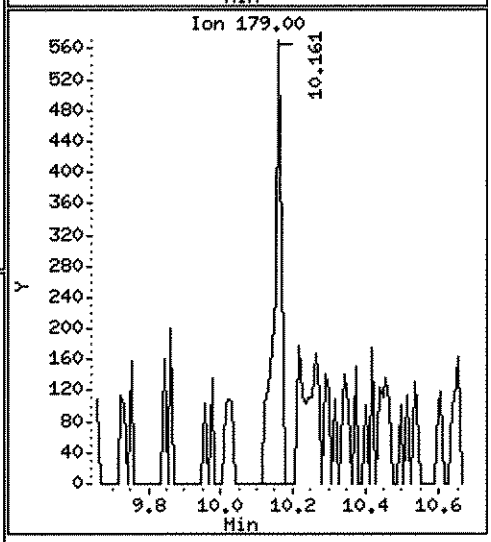












Data File: \\ELABNSH05\TARGET\chem\bna4.i\022812B4.b\0215024.D

Date : 29-FEB-2012 03:22

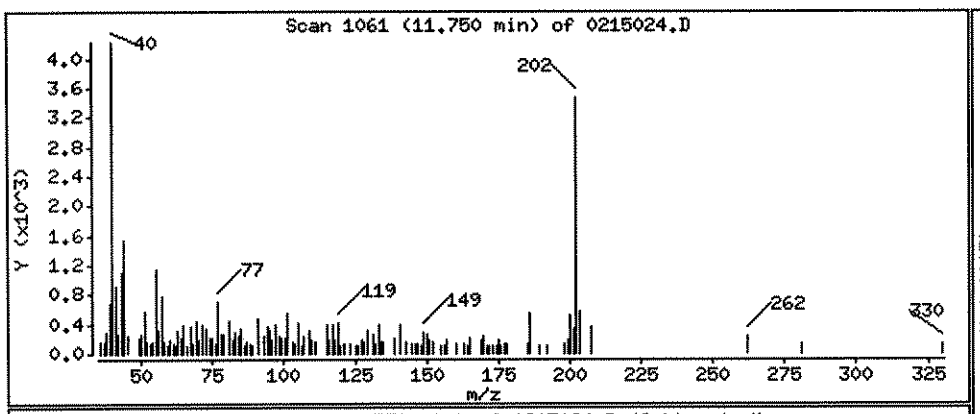
Client ID: FLC-4-P09-0624-0221 Instrument: bna4.i

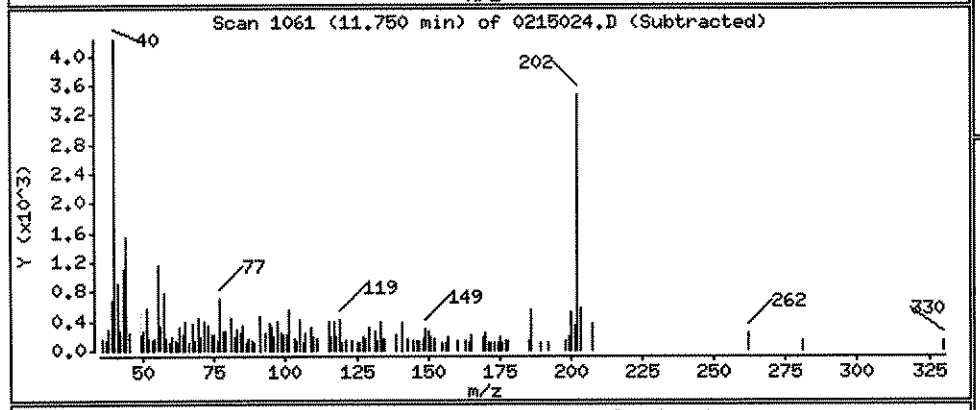
Sample Info: 1202150-24;1;15;1000;1;ug/Kg;24-FEB-2012

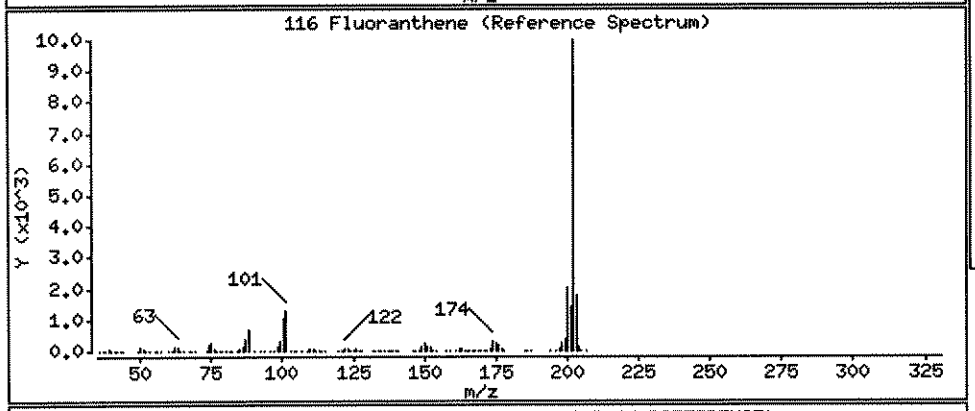
Volume Injected (uL): 1.0 Operator: MEC

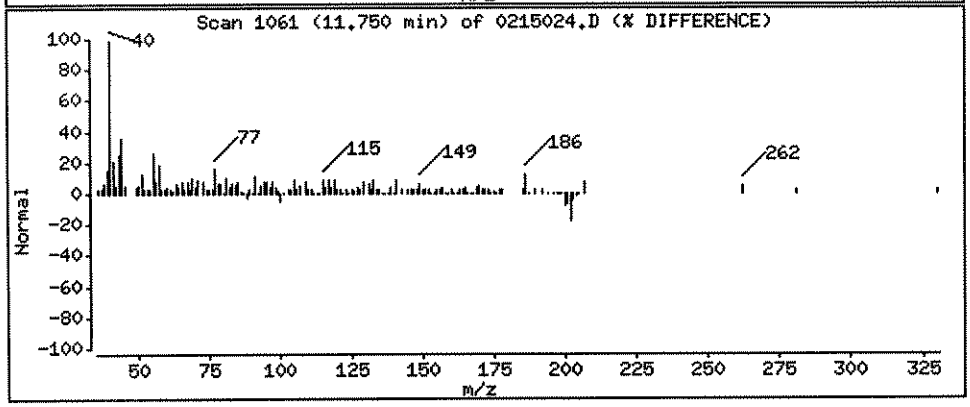
Column phase: fused silica Column diameter: 0.25

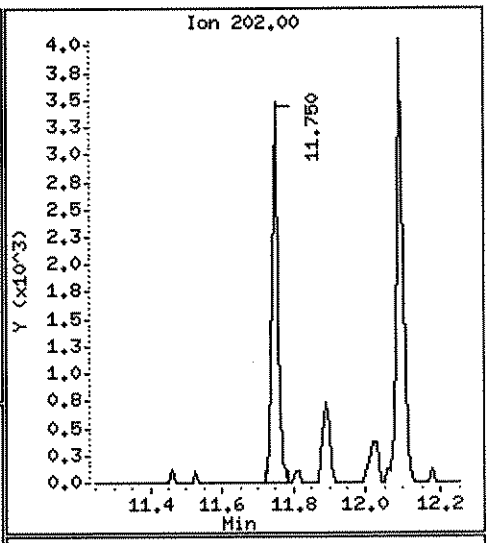
116 Fluoranthene Concentration: 2.757 ug/Kg

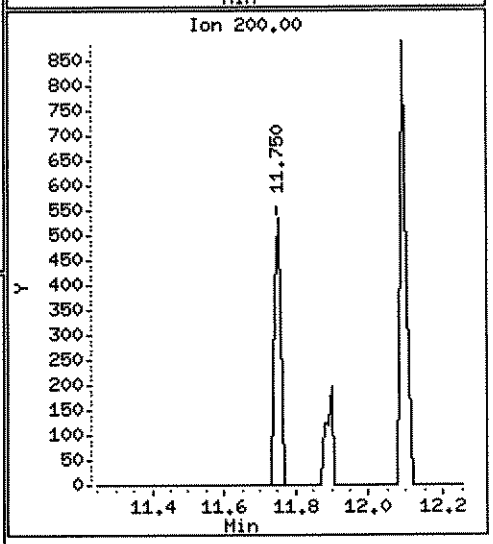












Data File: \\ELABNSHO5\TARGET\chem\bna4.i\022812B4.b\0215024.D

Date : 29-FEB-2012 03:22

Client ID: FLC-4-P09-0624-0221

Instrument: bna4.i

Sample Info: 1202150-24;1;15;1000;1;ug/Kg;24-FEB-2012

Volume Injected (uL): 1.0

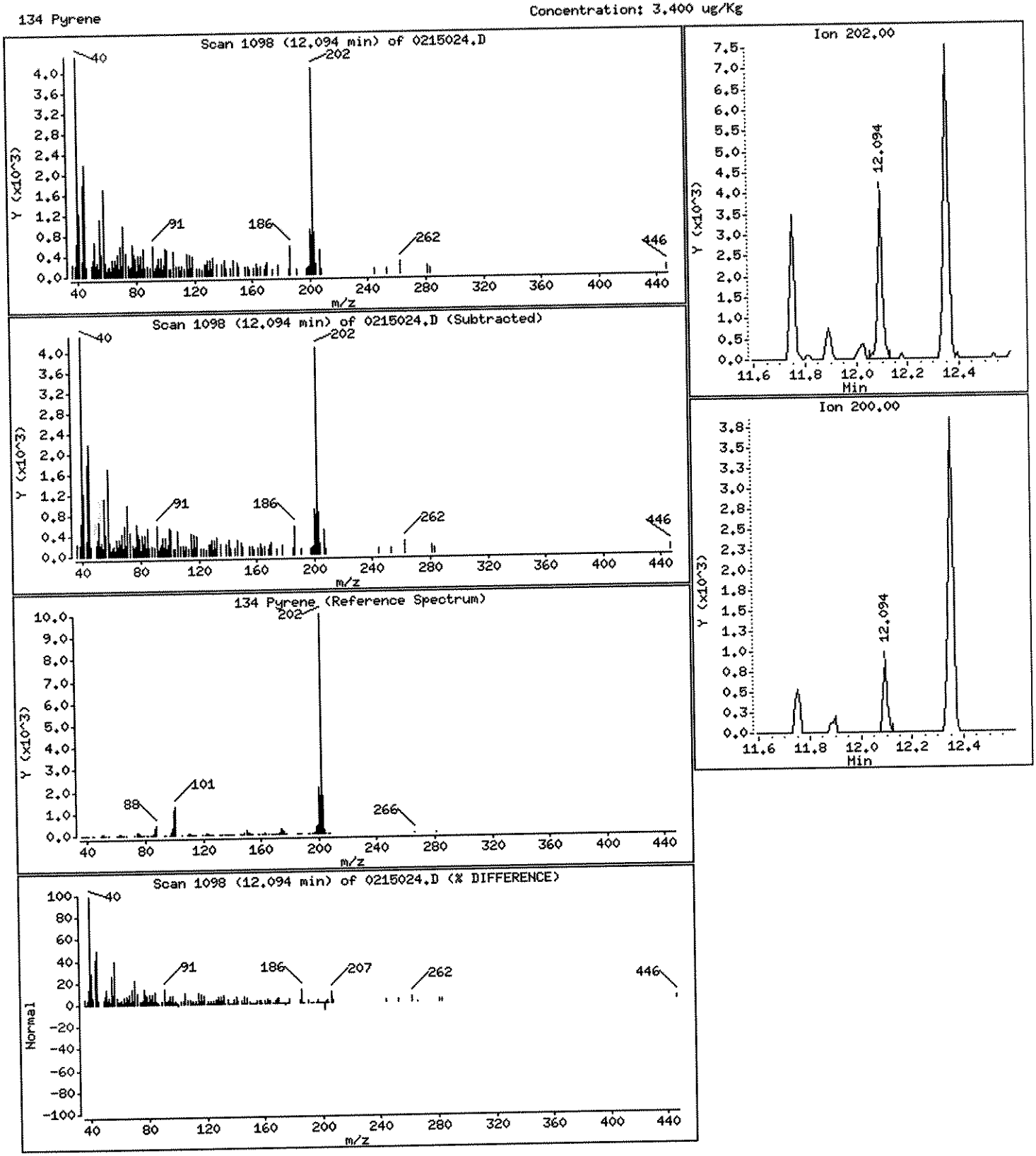
Operator: MEC

Column phase: fused silica

Column diameter: 0.25

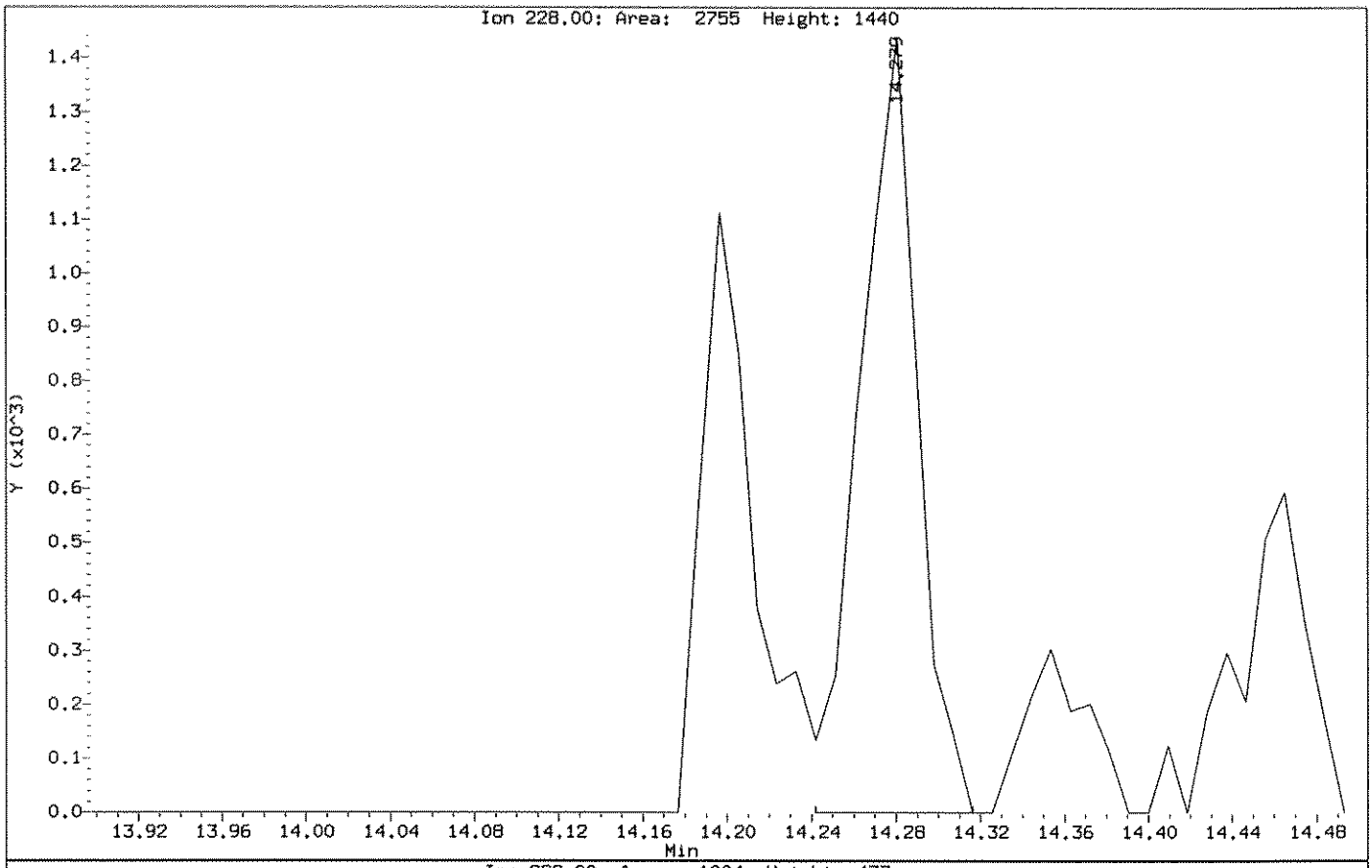
Concentration: 3.400 ug/Kg

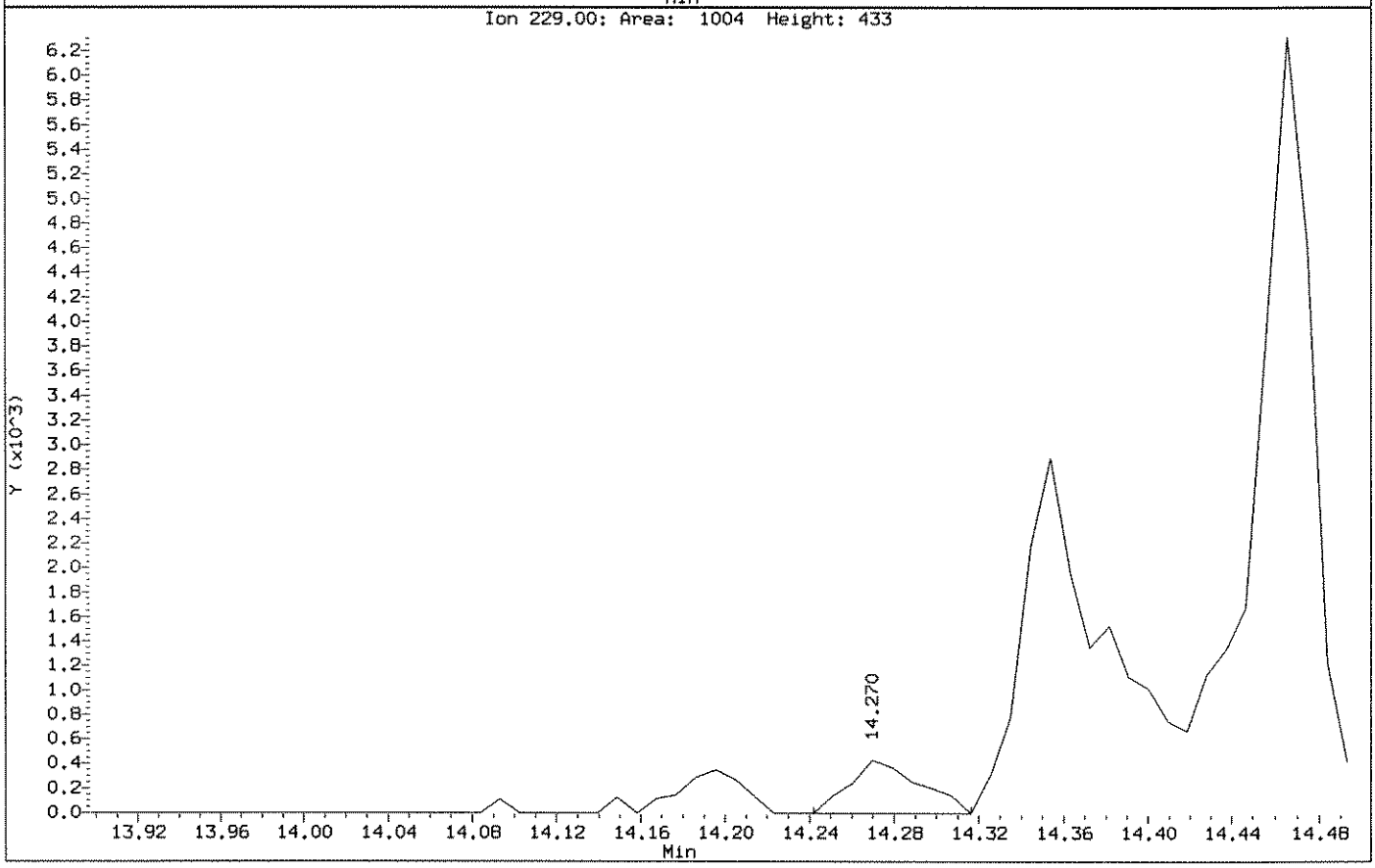
134 Pyrene



Data File: \\ELABNSH05\TARGET\chem\bna4.i\022812B4.b\0215024.D
Injection Date: 29-FEB-2012 03:22
Instrument: bna4.i
Client Sample ID: FLC-4-P09-0624-0221

Compound: Benzo(a)anthracene
CAS Number: 56-55-3





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Date : 29-FEB-2012 03:22

Client ID: FLC-4-P09-0624-0221

Instrument: bna4.i

Sample Info: 1202150-24;1;15;1000;1;ug/Kg;24-FEB-2012

Volume Injected (uL): 1.0

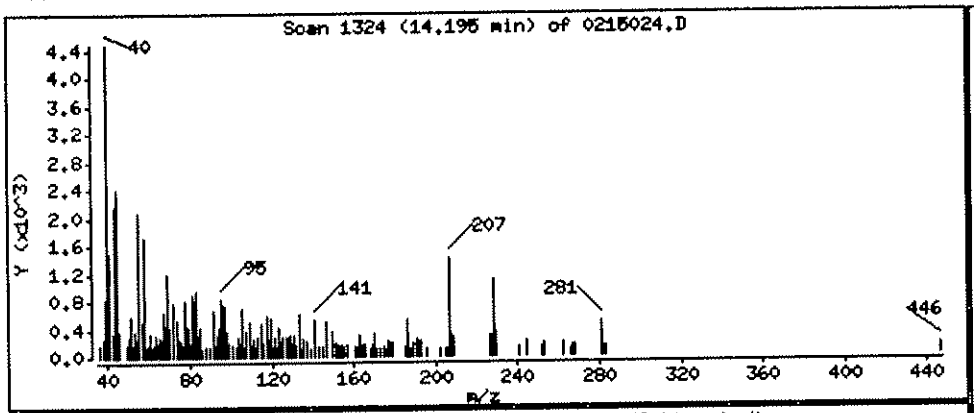
Operator: HEC

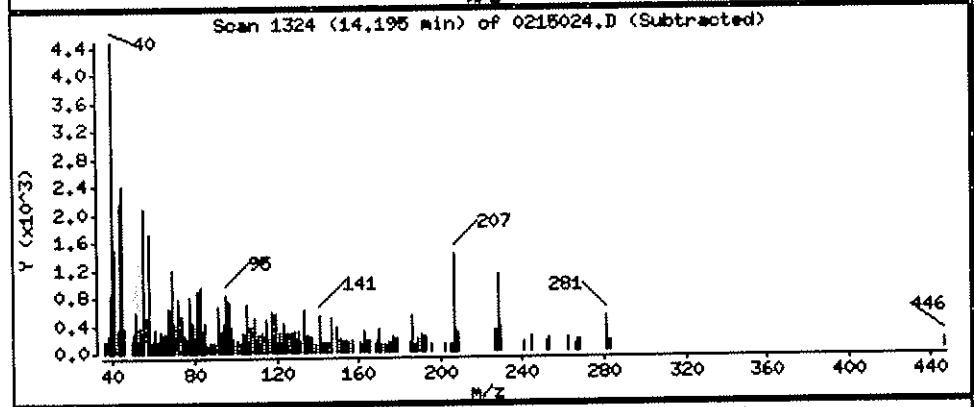
Column phase: fused silica

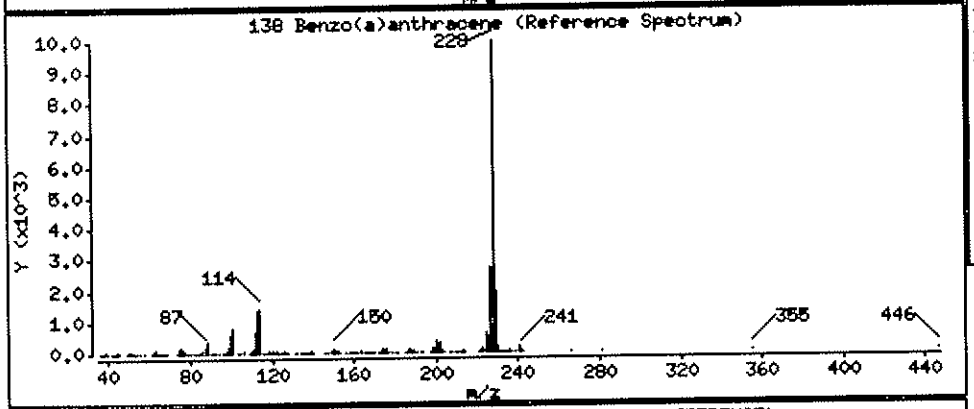
Column diameter: 0.25

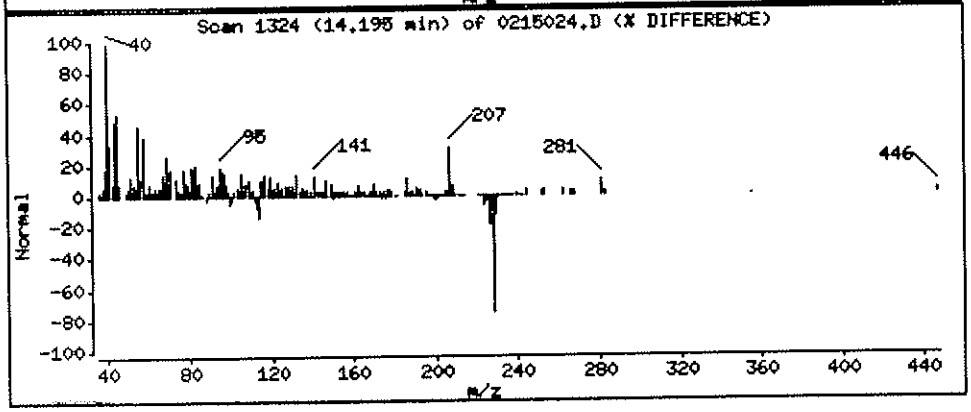
138 Benzo(a)anthracene

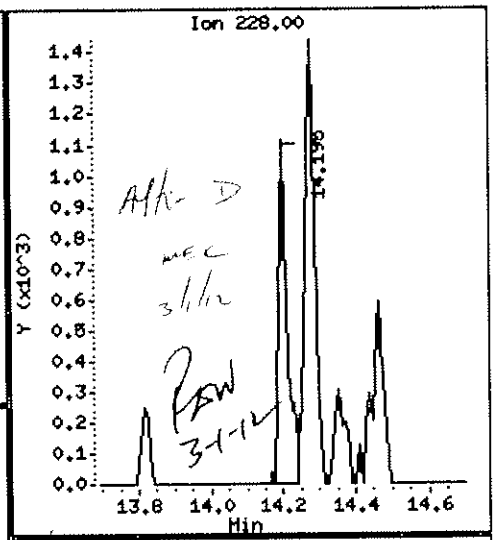
Concentration: 2.046 ug/Kg

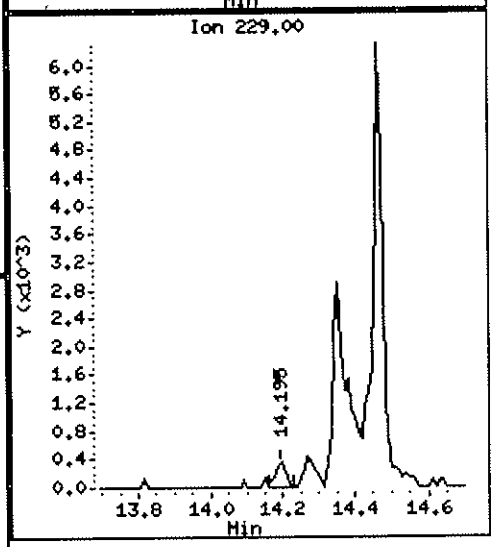












Data File: \\ELABNSH05\TARGET\chem\bna4.i\022812B4.b\0215024.D

Date : 29-FEB-2012 03:22

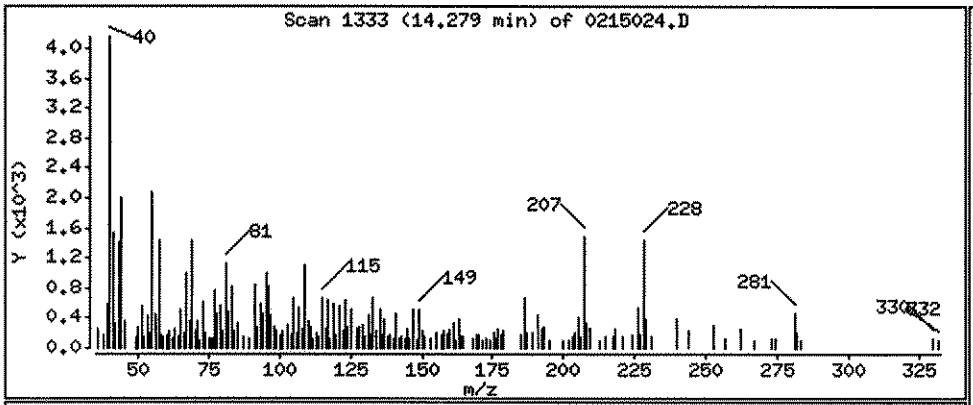
Client ID: FLC-4-P09-0624-0221 Instrument: bna4.i

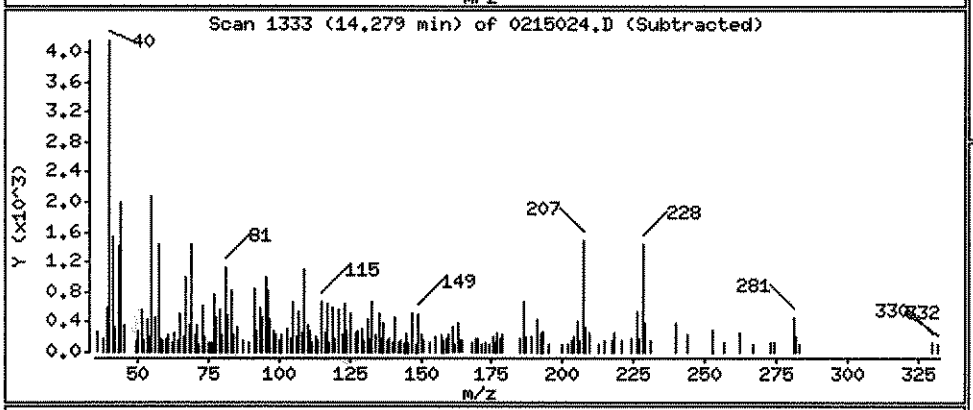
Sample Info: 1202150-24;1;15;1000;1;ug/Kg;24-FEB-2012

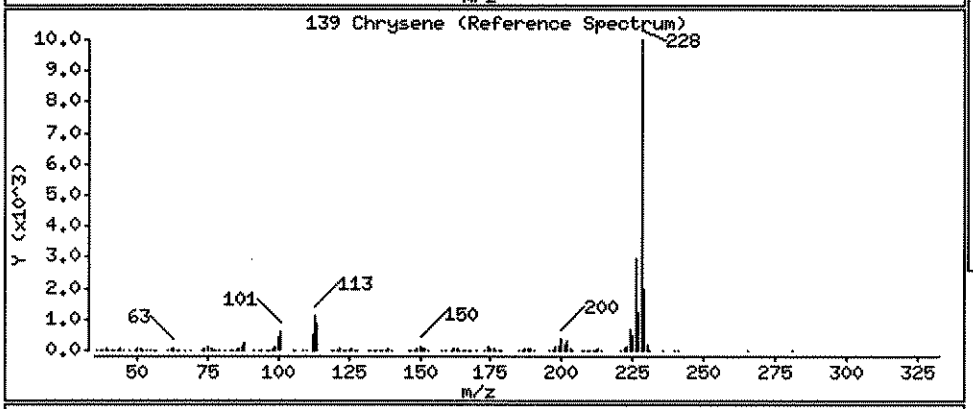
Volume Injected (uL): 1.0 Operator: MEC

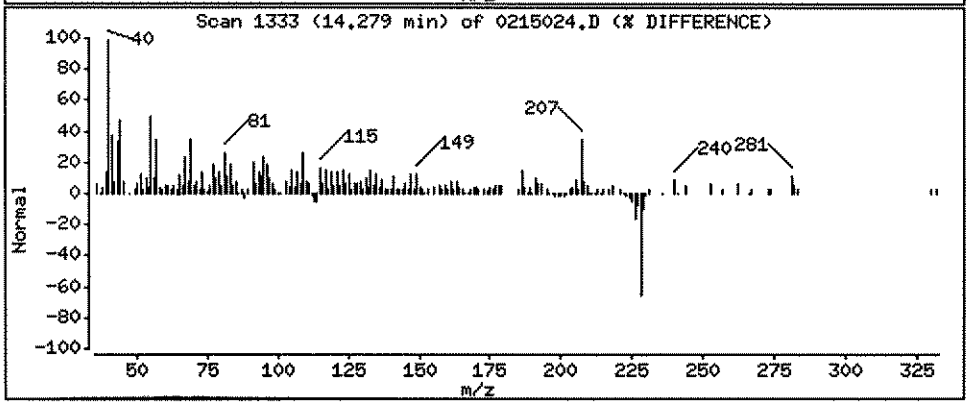
Column phase: fused silica Column diameter: 0.25

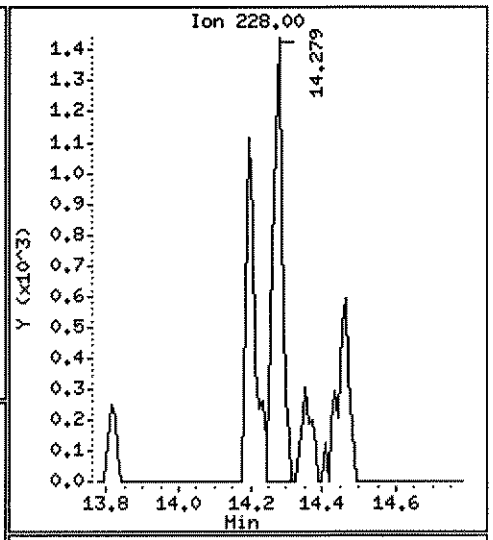
139 Chrysene Concentration: 2.854 ug/Kg

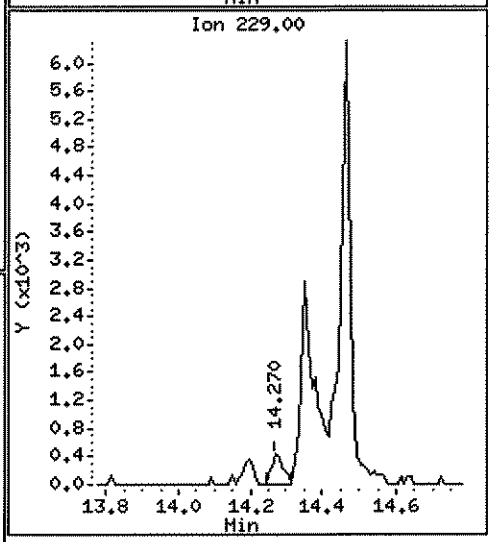






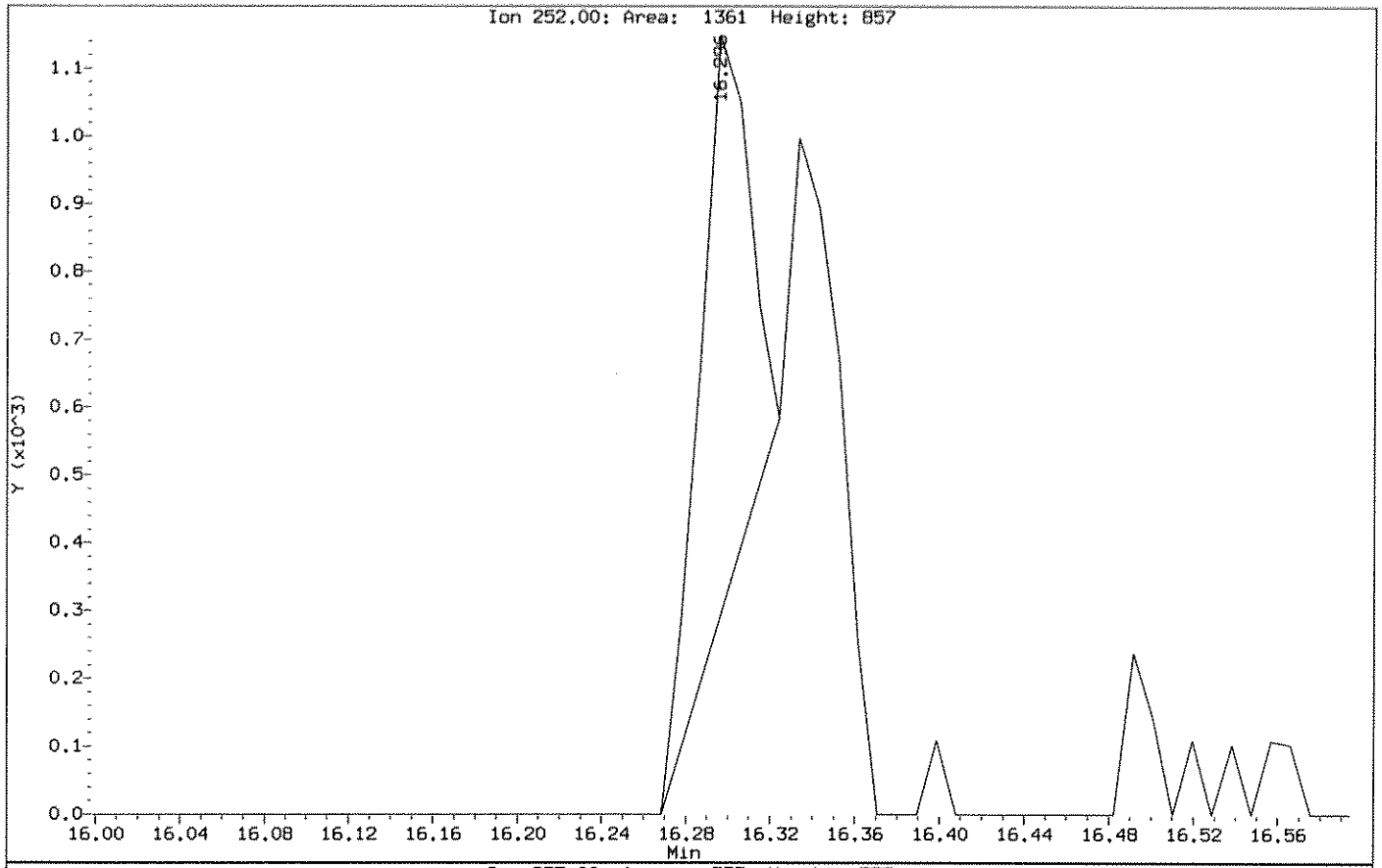


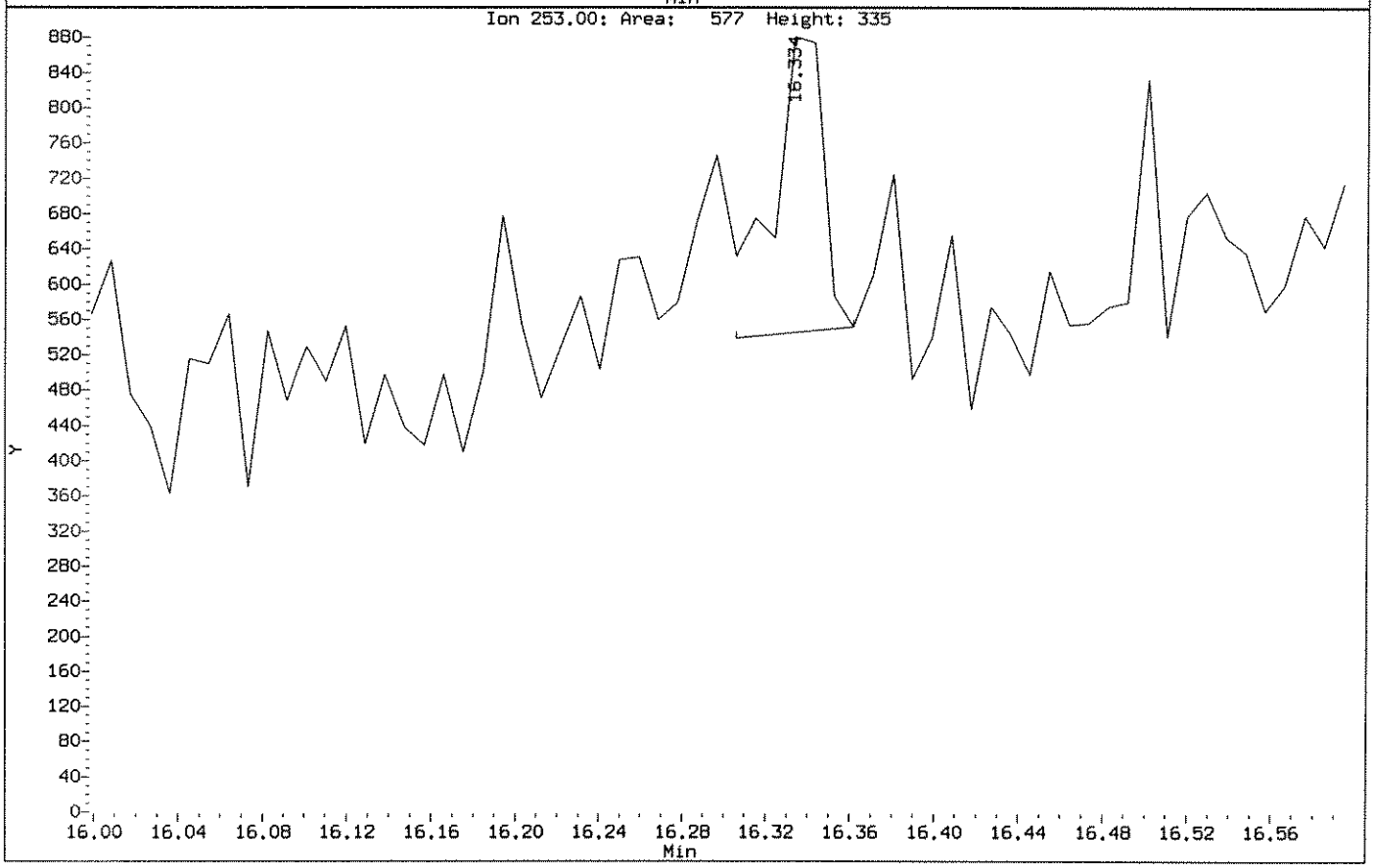




Data File: \\ELABNSHO5\TARGET\chem\bna4.i\022812B4.b\0215024.D
Injection Date: 29-FEB-2012 03:22
Instrument: bna4.i
Client Sample ID: FLC-4-P09-0624-0221

Compound: Benzo(b)fluoranthene
CAS Number: 205-99-2





Data File: \\ELABNSH05\TARGET\chem\bna4.i\022812B4.b\0215024.D

Date : 29-FEB-2012 03:22

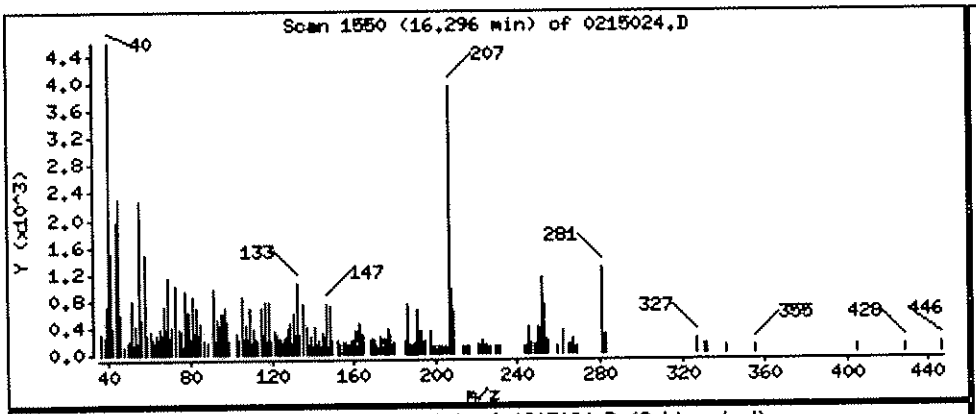
Client ID: FLC-4-P09-0624-0221 | Instrument: bna4.i

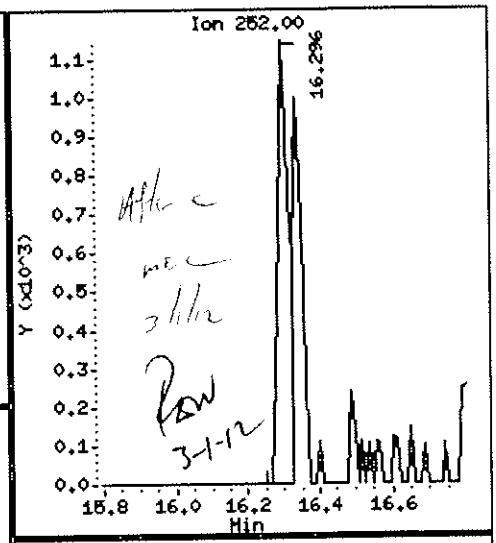
Sample Info: 1202150-24;1;15;1000;1;ug/Kg;24-FEB-2012

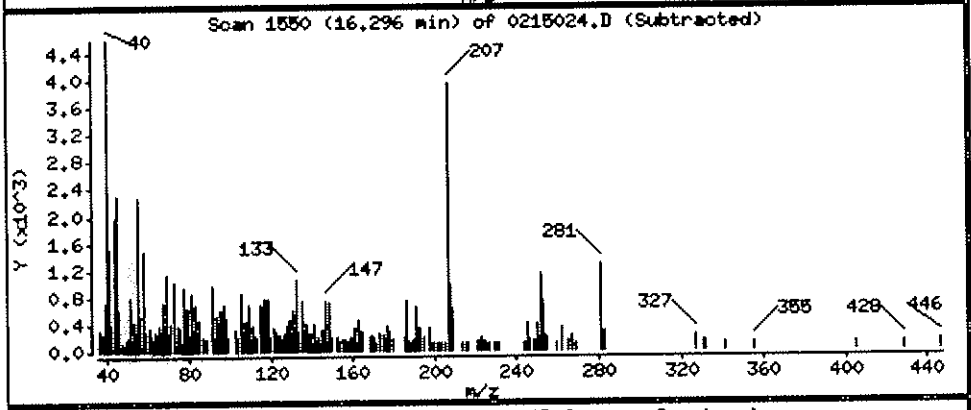
Volume Injected (uL): 1.0 | Operator: MEC

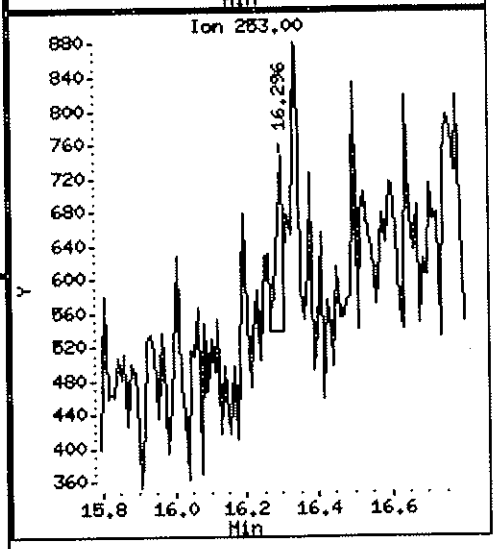
Column phase: fused silica | Column diameter: 0.25

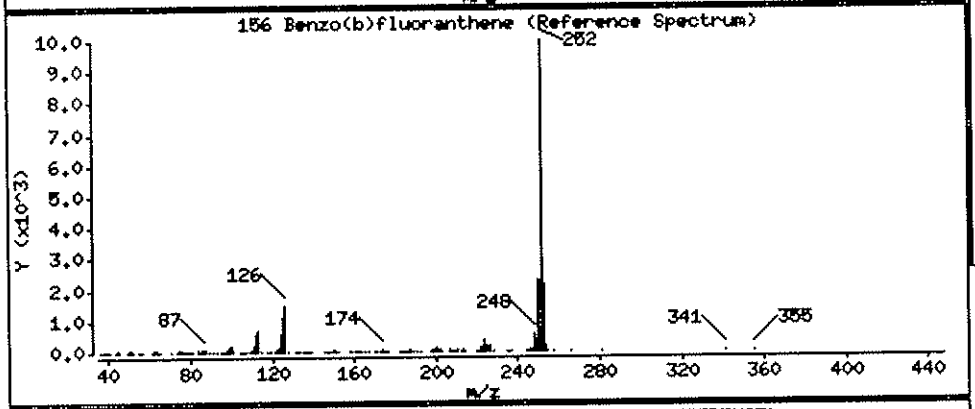
156 Benzo(b)fluoranthene | Concentration: 2.675 ug/Kg

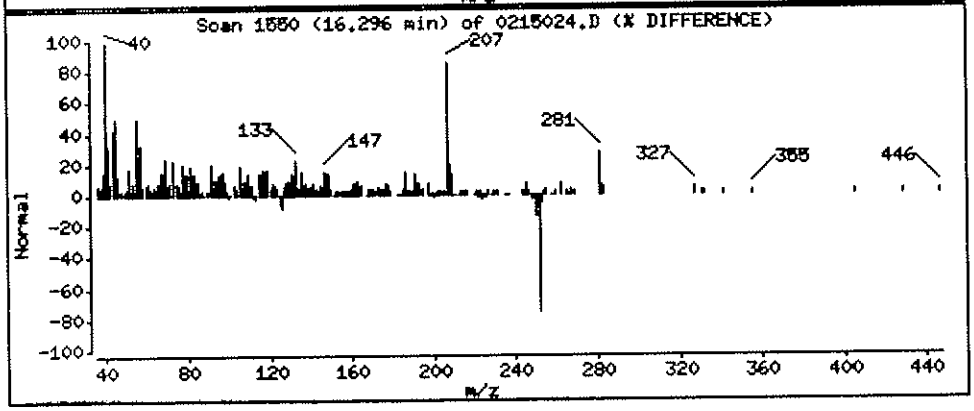






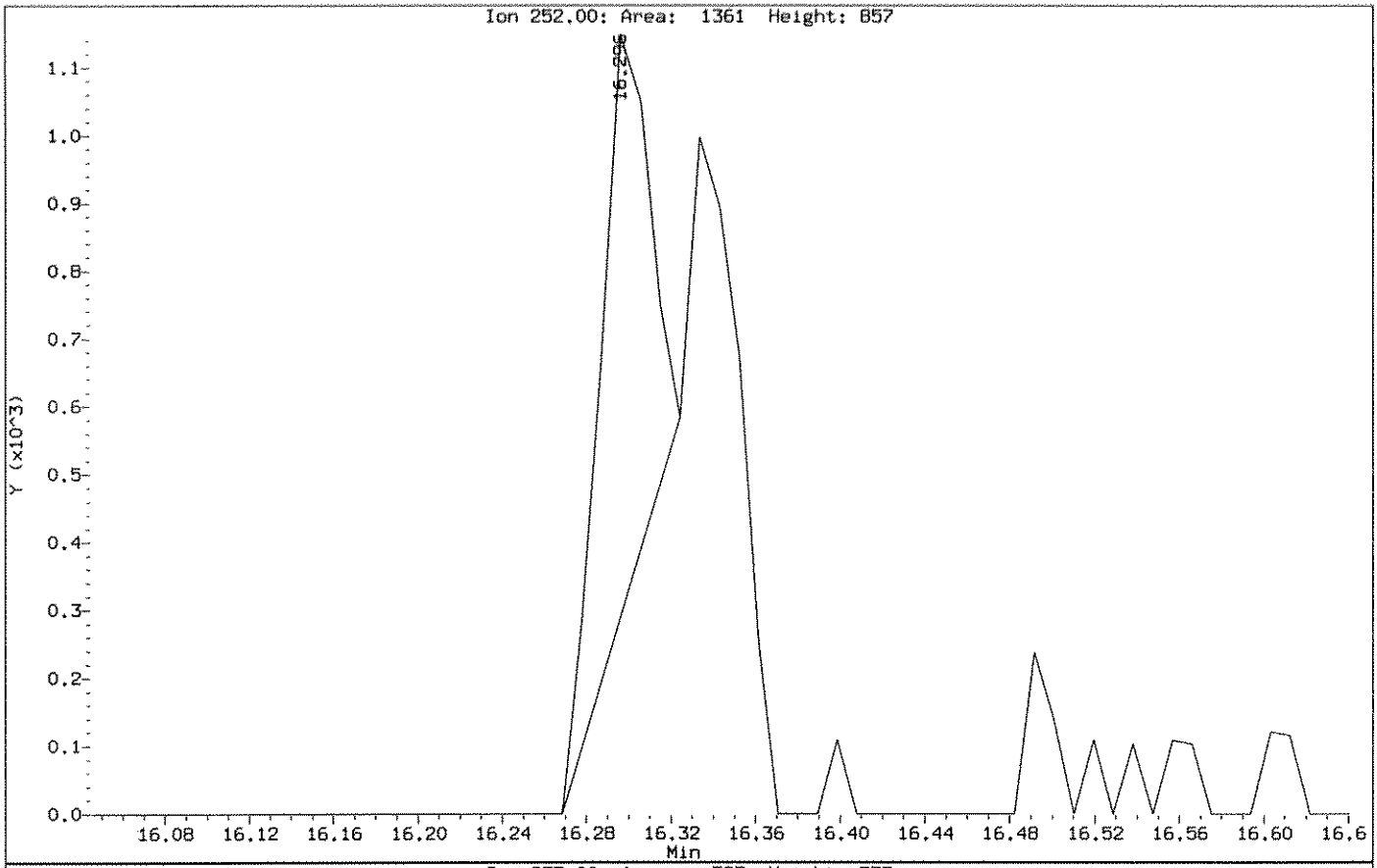


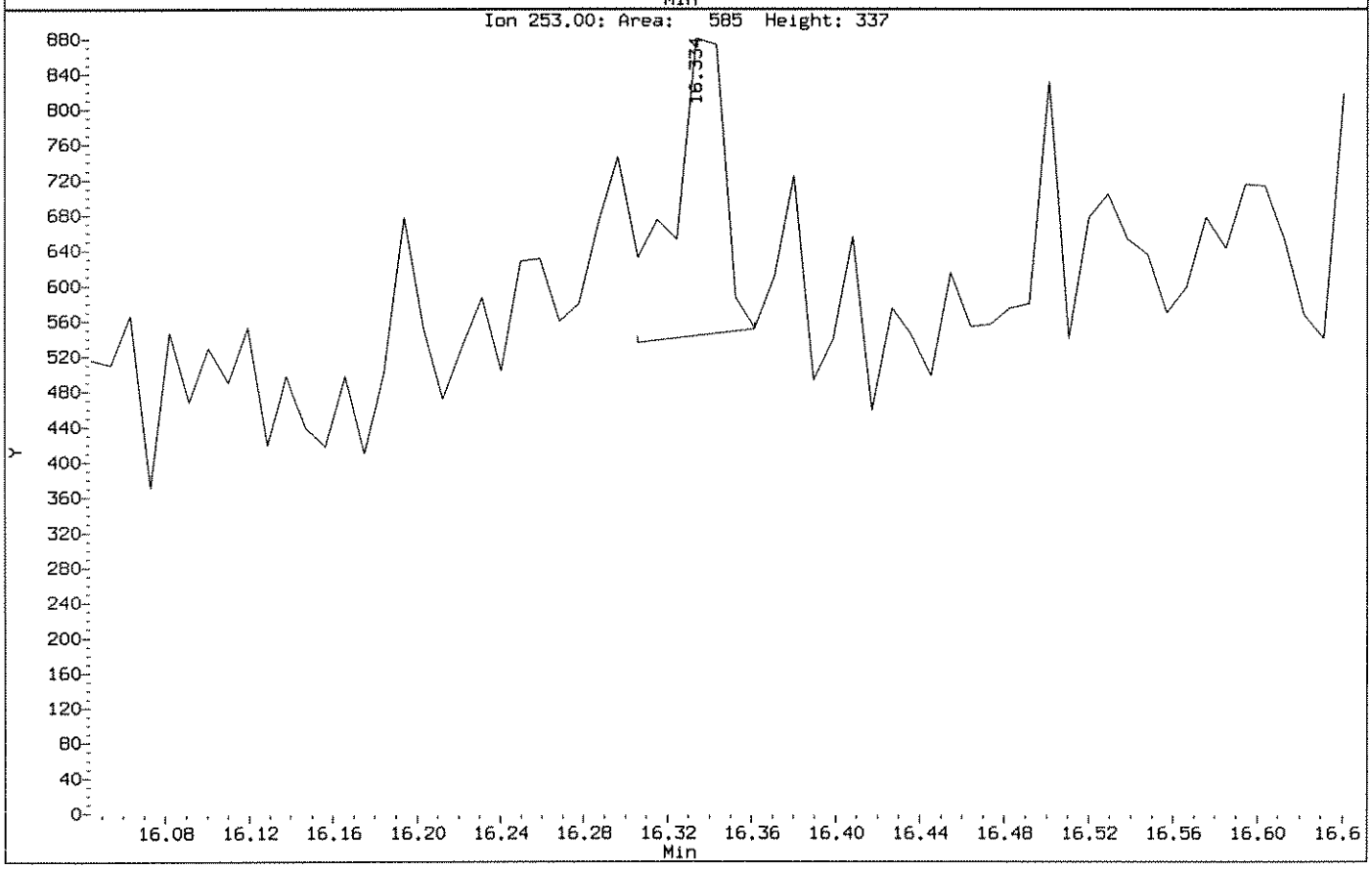




Data File: \\ELABNSHO5\TARGET\chem\bna4.i\022012B4.b\0215024.D
Injection Date: 29-FEB-2012 03:22
Instrument: bna4.i
Client Sample ID: FLC-4-P09-0624-0221

Compound: Benzo(k)fluoranthene
CAS Number: 207-08-9





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Date : 29-FEB-2012 03:22

Client ID: FLC-4-P09-0624-0221

Instrument: bna4.i

Sample Info: 1202150-24;1;15;1000;1;ug/Kg;24-FEB-2012

Volume Injected (uL): 1.0

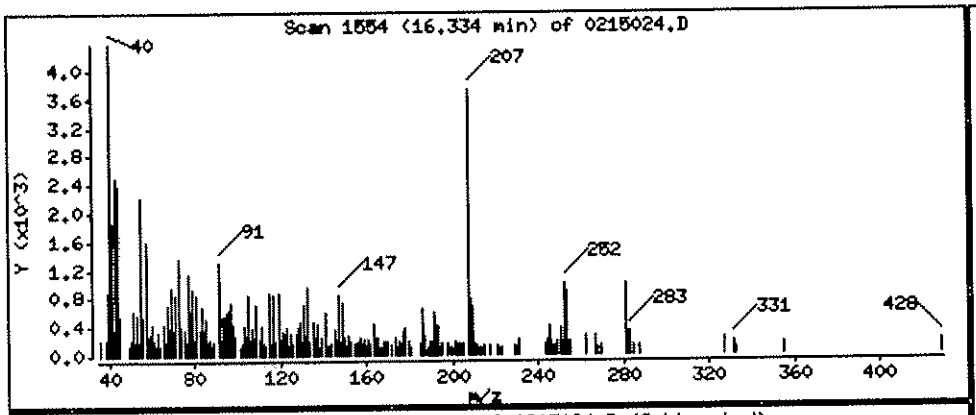
Operator: MEC

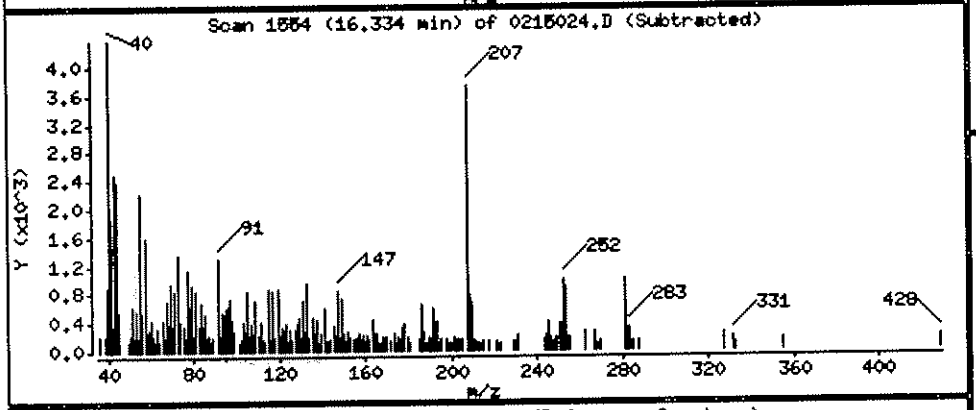
Column phase: fused silica

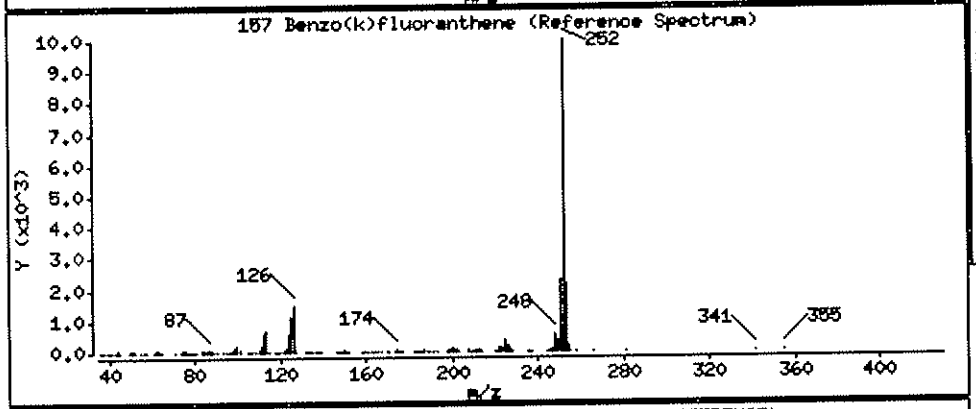
Column diameter: 0.25

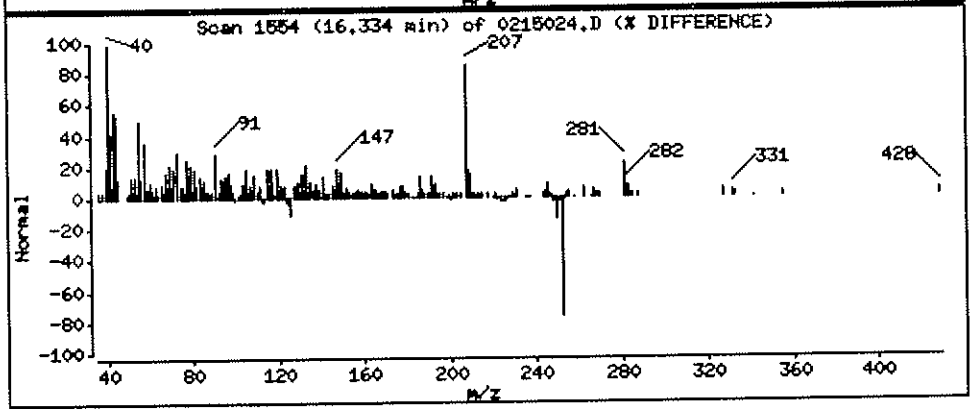
157 Benzo(k)fluoranthene

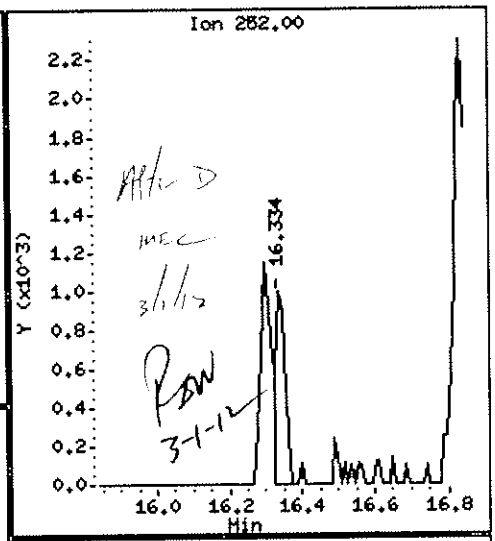
Concentration: 2.060 ug/Kg

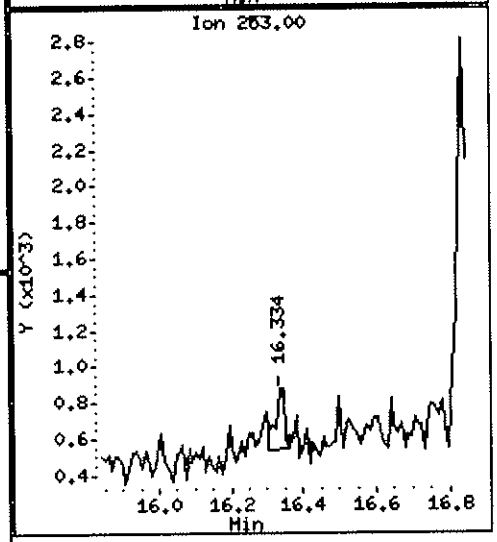












Data File: \\ELABNSH05\TARGET\chem\bna4.i\022812B4.b\0215025.D
Report Date: 01-Mar-2012 11:10

Laboratory Name

Data file : \\ELABNSH05\TARGET\chem\bna4.i\022812B4.b\0215025.D
Lab Smp Id: 1202150-25 Client Smp ID: FLC-4-PO9-0204-0221
Inj Date : 29-FEB-2012 03:50 MS Autotune Date: 15-FEB-2012 09:23
Operator : MEC Inst ID: bna4.i
Smp Info : 1202150-25;1;15;1000;1;ug/Kg;24-FEB-2012
Misc Info : ;0;;;;2B24004;pahlow.sub;
Comment :
Method : \\ELABNSH05\TARGET\chem\bna4.i\022812B4.b\IXBN4LOW.m
Meth Date : 01-Mar-2012 11:03 mcobb Quant Type: ISTD
Cal Date : 20-FEB-2012 16:29 Cal File: SEQ-CAL1.D
Als bottle: 23
Dil Factor: 1.00000
Integrator: HP RTE Compound Sublist: pahlow.sub
Target Version: 4.04
Processing Host: TARGET09_VM

Concentration Formula: Amt * DF * Uf * Vt*Vi/(Amt * Vi * (Solids/100))

Name	Value	Description
DF	1.000	Dilution Factor
Uf	1.000	ng unit correction factor
Vt	1000.000	Volume of final extract (uL)(1000 low, 2
Amt	15.000	Mass of initial extraction
Vi	1.000	Volume injected (uL)
Solids	100.000	Percent Solids

3-1-12

Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS ON-COLUMN (ng/ul)	FINAL (ug/Kg)
$ 74 2-Fluorobiphenyl	172	7.501	7.492	(0.740)	3710102	38.6960	2580
* 102 Phenanthrene-d10	188	10.132	10.132	(1.000)	119260	1.00000	
111 Phenanthrene	178	10.160	10.160	(1.003)	4987	0.04234	2.823(a)
116 Fluoranthene	202	11.750	11.750	(1.160)	11200	0.09256	6.170
134 Pyrene	202	12.094	12.094	(1.194)	15887	0.12745	8.497
* 154 Perylene-d12	264	17.021	17.011	(1.000)	64586	1.00000	
$ 135 Terphenyl-d14	244	12.363	12.345	(1.220)	4225265	51.2647	3418(A)
138 Benzo(a)anthracene	228	14.195	14.195	(1.401)	4932	0.06269	4.179(M)
139 Chrysene	228	14.278	14.278	(1.409)	6976	0.08869	5.913
156 Benzo(b)fluoranthene	252	16.296	16.296	(0.957)	5187	0.06405	4.270(M)
157 Benzo(k)fluoranthene	252	16.333	16.342	(0.960)	5347	0.06701	4.467(M)
158 Benzo(a)pyrene	252	16.909	16.909	(0.993)	4324	0.07123	4.748
159 Indeno(1,2,3-cd)pyrene	276	18.917	18.908	(1.111)	1976	0.04096	2.731(a)

MEC
3/1/12

Data File: \\ELABNSH05\TARGET\chem\bna4.i\022812B4.b\0215025.D
Report Date: 01-Mar-2012 11:10

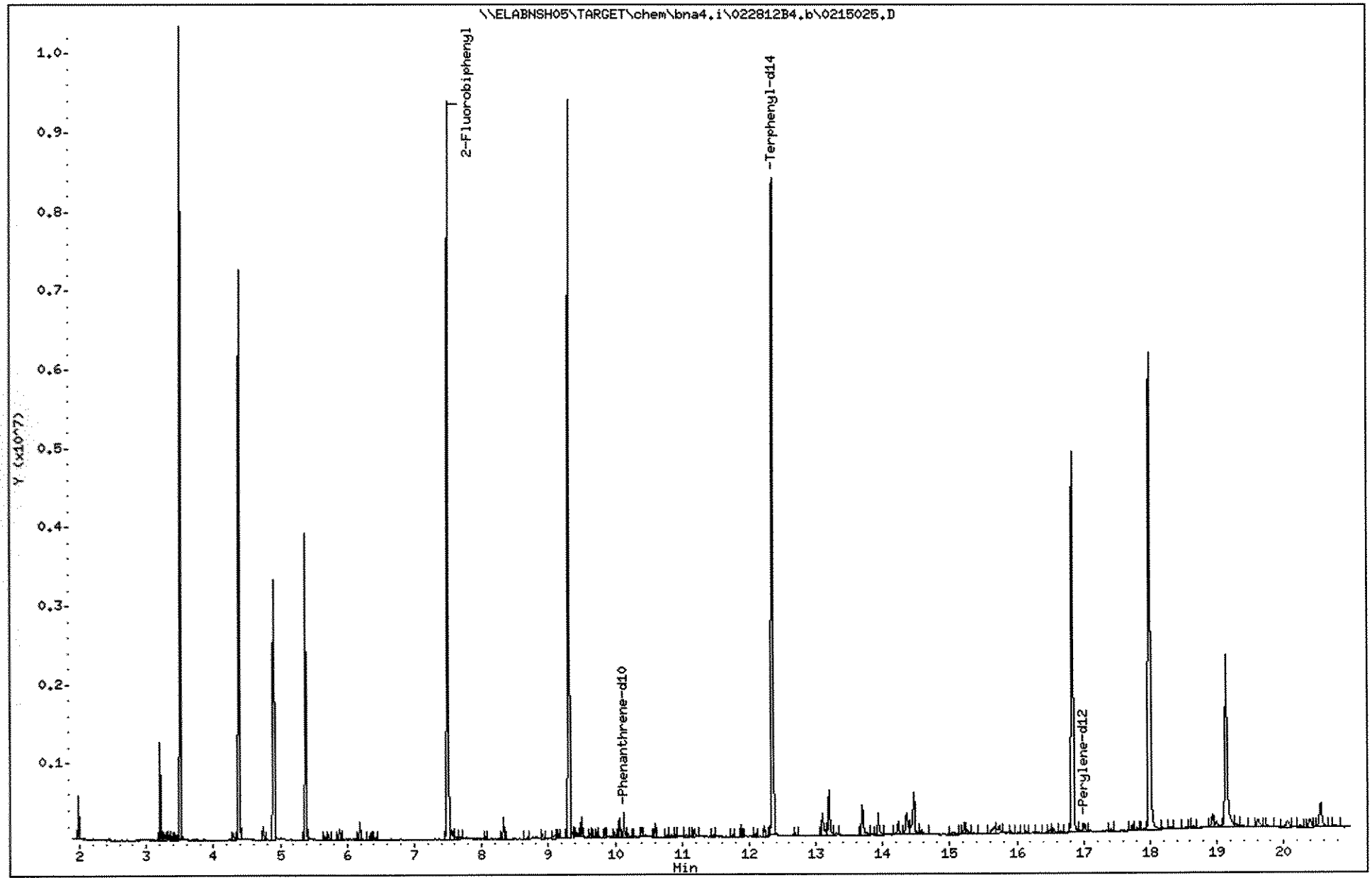
Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS ON-COLUMN (ng/ul)	FINAL (ug/Kg)
161 Benzo(g,h,i)perylene	276	19.401	19.391	(1.140)	2448	0.05634	3.756

QC Flag Legend

a - Target compound detected but, quantitated amount Below Limit Of Quantitation(BLOQ).
A - Target compound detected but, quantitated amount exceeded maximum amount.
M - Compound response manually integrated.

Data File: \\ELABNSH05\TARGET\chem\bna4.i\022812B4.b\0215025.D
Date : 29-FEB-2012 03:50
Client ID: FLC-4-P09-0204-0221
Sample Info: 1202150-25;1;15;1000;1;ug/Kg;24-FEB-2012
Volume Injected (uL): 1.0
Column phase: fused silica

Instrument: bna4.i
Operator: MEC
Column diameter: 0.25



449

1202150

Data File: \\ELABNSH05\TARGET\chem\bna4.i\022812B4.b\0215025.D

Date : 29-FEB-2012 03:50

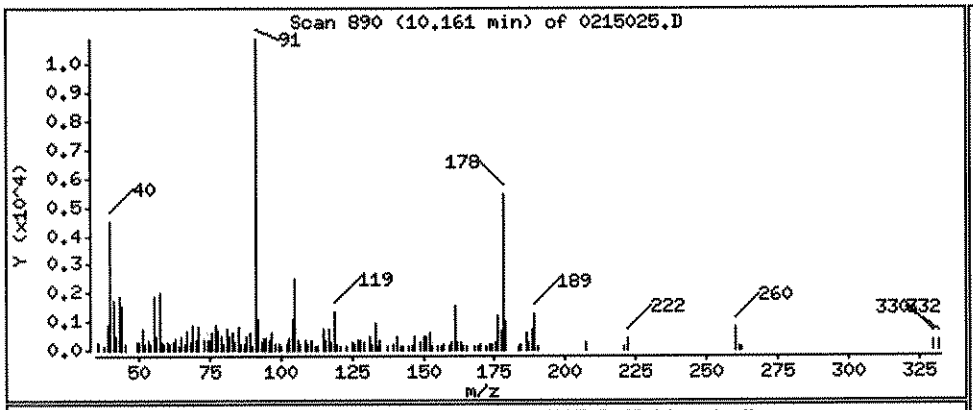
Client ID: FLC-4-P09-0204-0221 Instrument: bna4.i

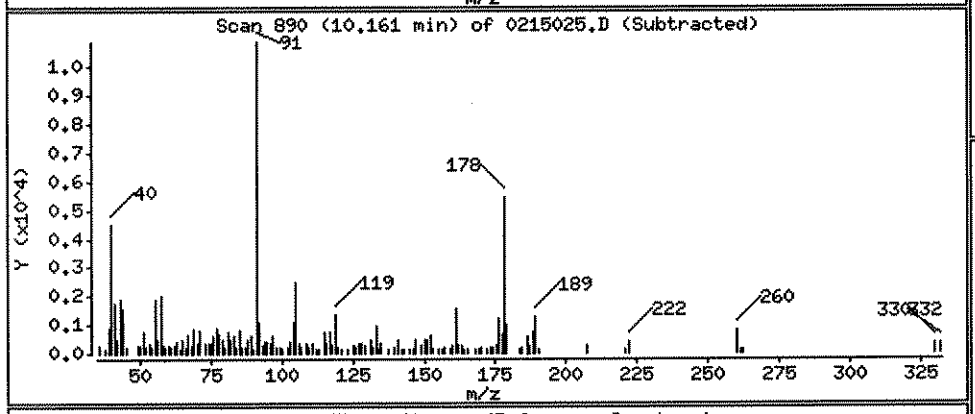
Sample Info: 1202150-25;1;15;1000;1;ug/Kg;24-FEB-2012

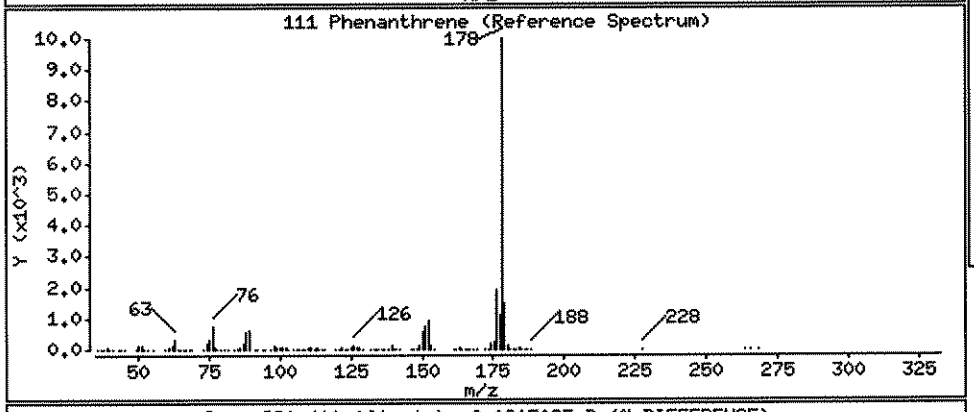
Volume Injected (uL): 1.0 Operator: MEC

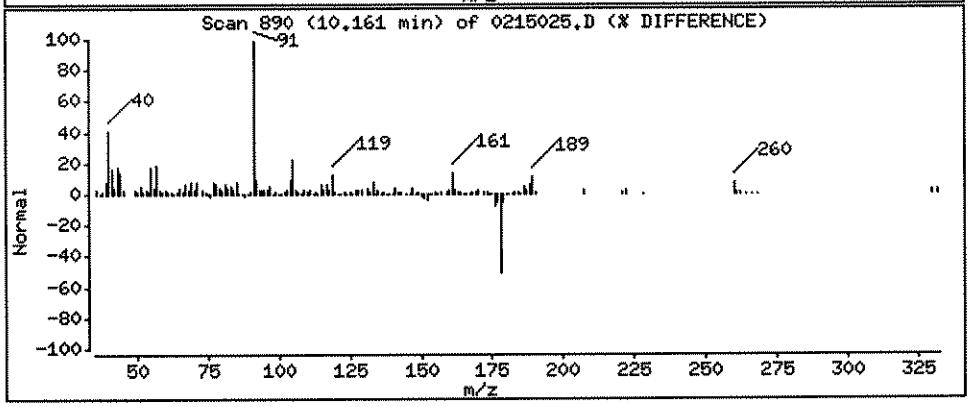
Column phase: fused silica Column diameter: 0.25

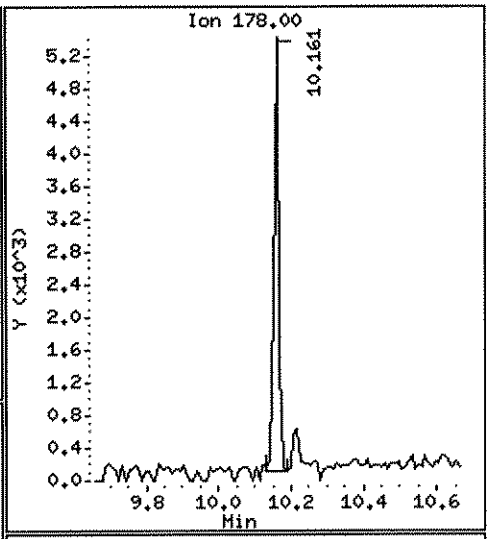
111 Phenanthrene Concentration: 2.823 ug/Kg

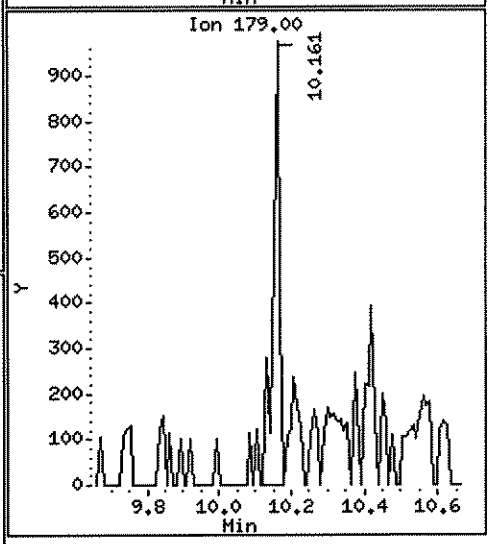












Data File: \\ELABNSH05\TARGET\chem\bna4.i\022812B4.b\0215025.D

Date : 29-FEB-2012 03:50

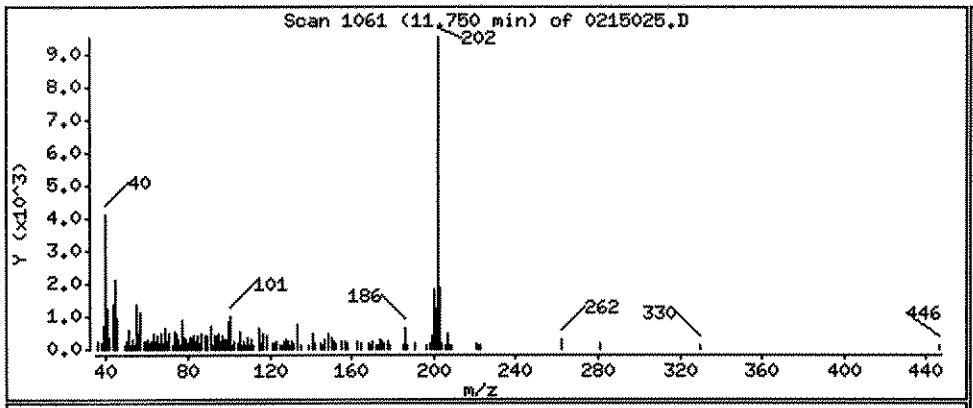
Client ID: FLC-4-P09-0204-0221 Instrument: bna4.i

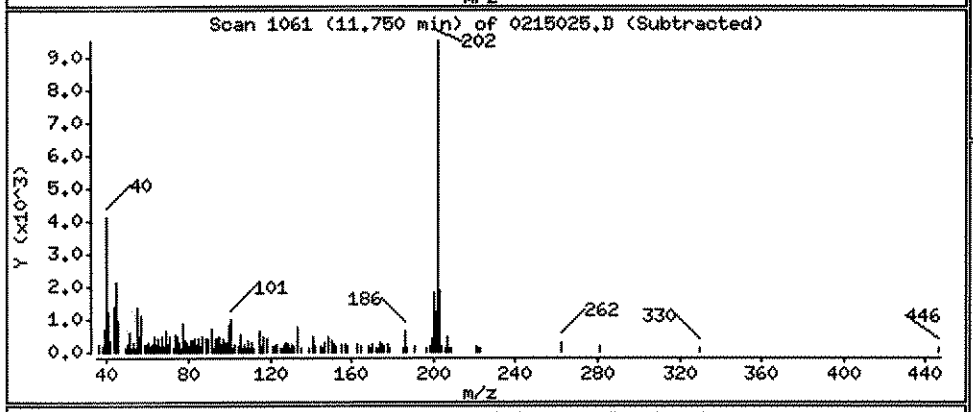
Sample Info: 1202150-25;1;15;1000;1;ug/Kg;24-FEB-2012

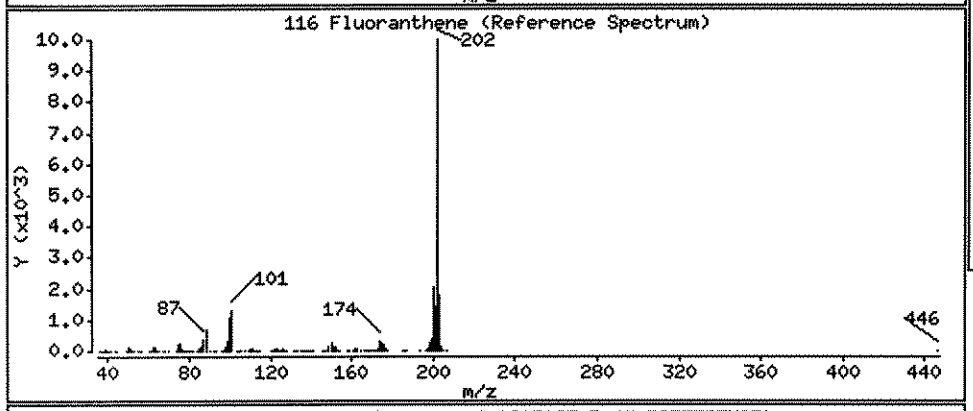
Volume Injected (uL): 1.0 Operator: MEC

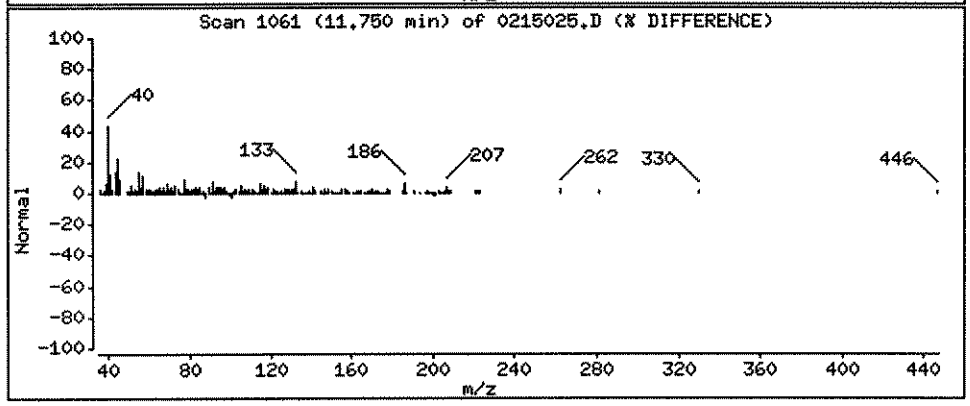
Column phase: fused silica Column diameter: 0.25

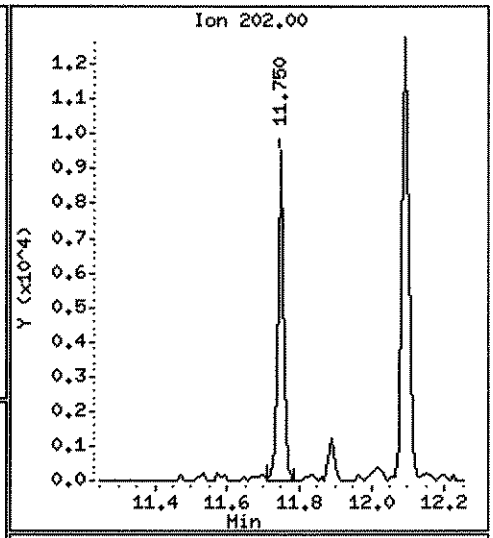
116 Fluoranthene Concentration: 6.170 ug/Kg

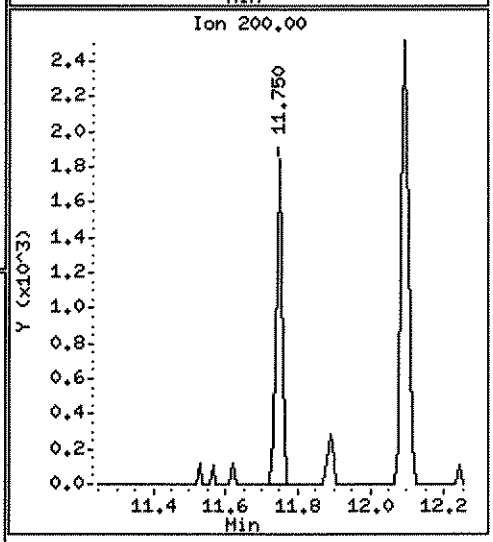












Data File: \\ELABNSHO5\TARGET\chem\bna4.i\022812B4.b\0215025.D

Date : 29-FEB-2012 03:50

Client ID: FLC-4-PO9-0204-0221

Instrument: bna4.i

Sample Info: 1202150-25;1;15;1000;1;ug/Kg;24-FEB-2012

Volume Injected (uL): 1.0

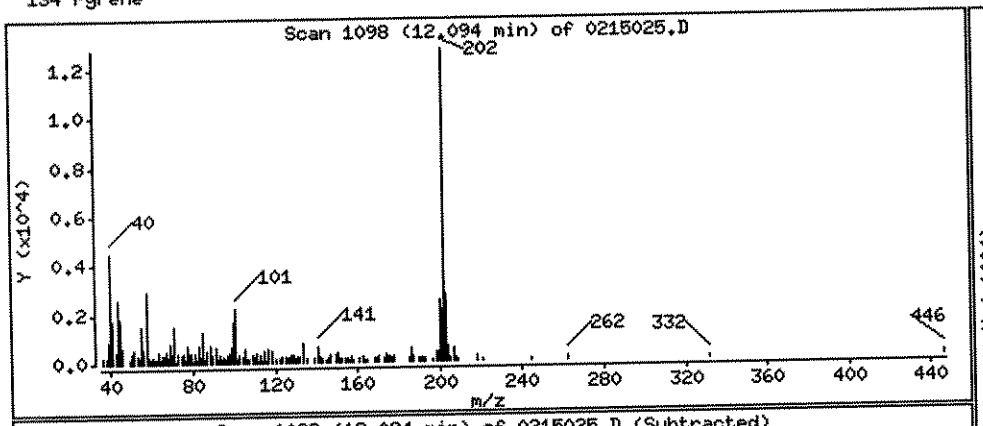
Operator: MEC

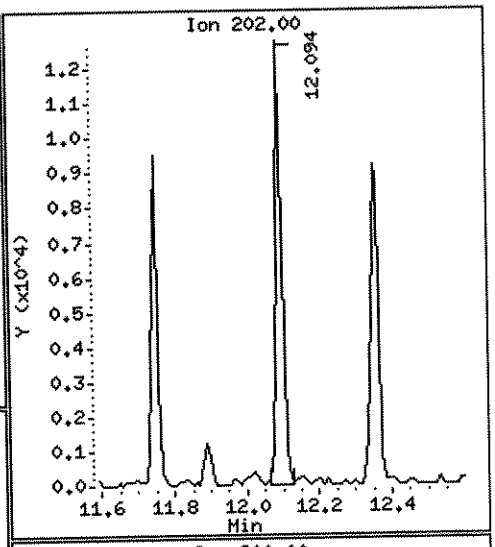
Column phase: fused silica

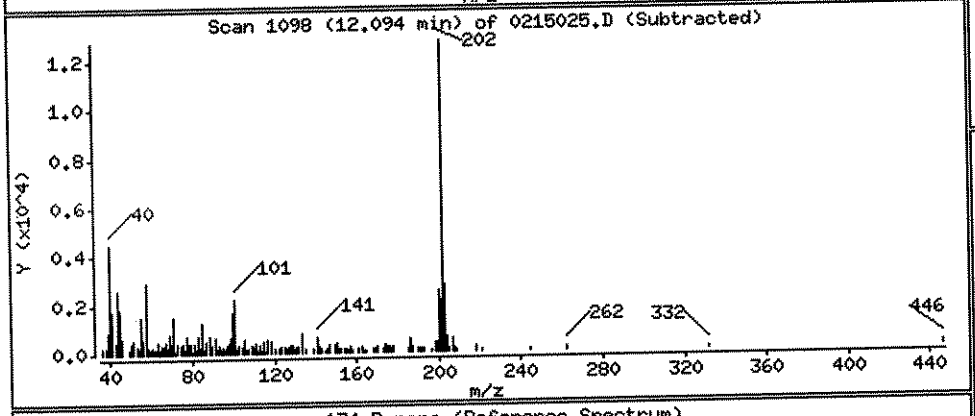
Column diameter: 0.25

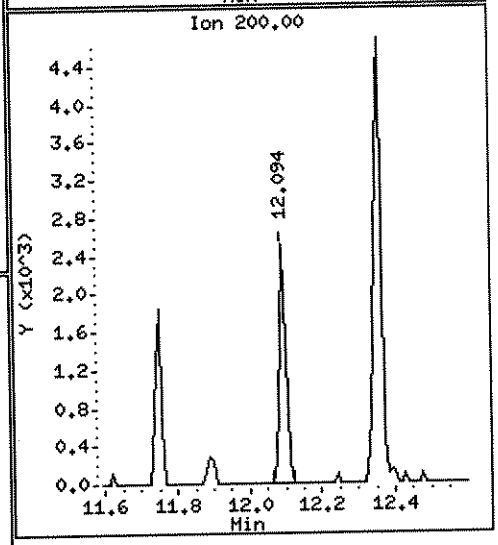
Concentration: 8.497 ug/Kg

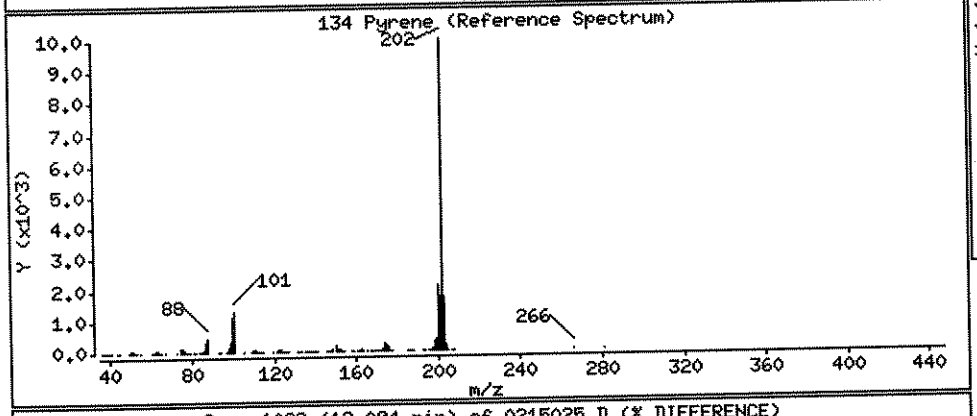
134 Pyrene

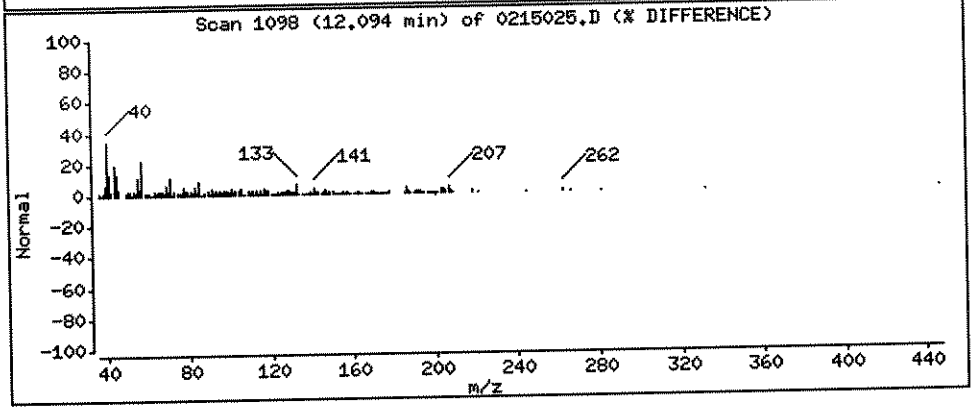






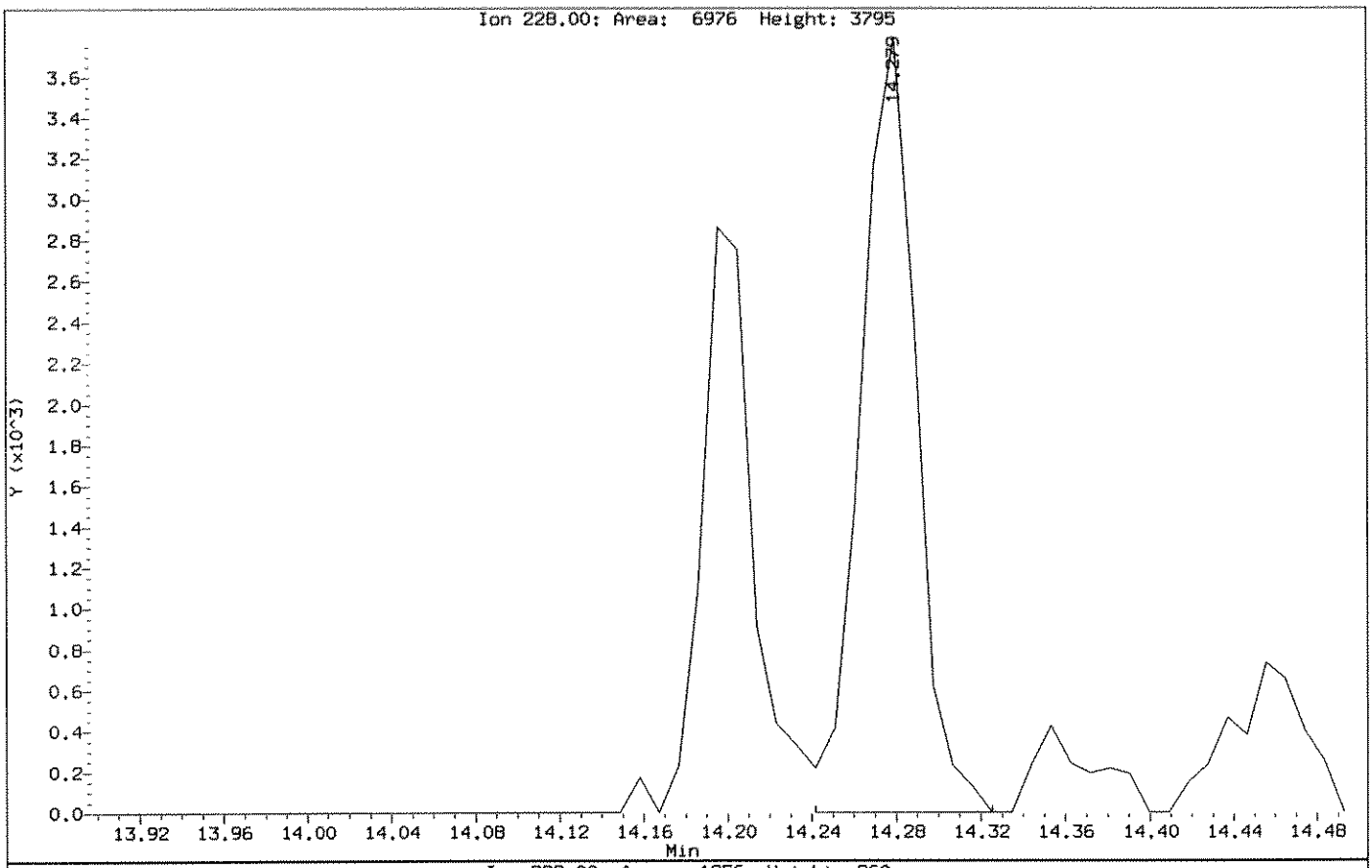


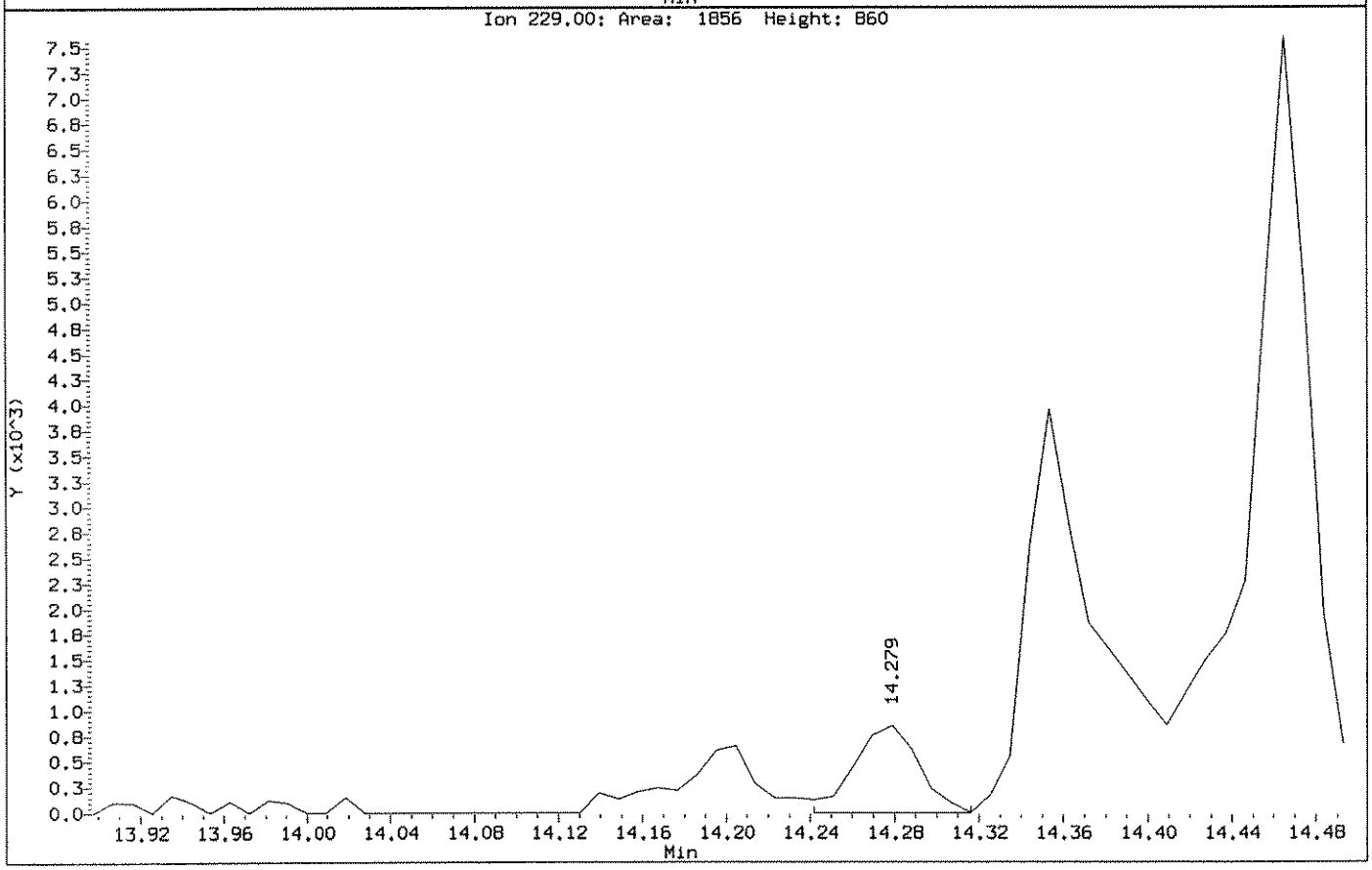




Data File: \\ELABNSHO5\TARGET\chem\bna4.i\022812B4.b\0215025.D
Injection Date: 29-FEB-2012 03:50
Instrument: bna4.i
Client Sample ID: FLC-4-P09-0204-0221

Compound: Benzo(a)anthracene
CAS Number: 56-55-3





Data File: \\ELABNSH05\TARGET\chem\bna4.i\022812B4.b\0215025.D

Date : 29-FEB-2012 03:50

Client ID: FLC-4-P09-0204-0221

Instrument: bna4.i

Sample Info: 1202150-25;1;15;1000;1;ug/Kg;24-FEB-2012

Operator: MEC

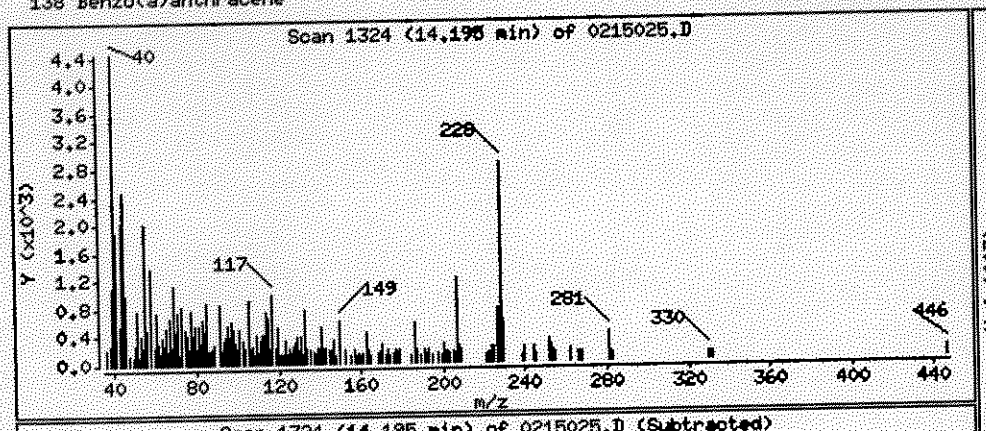
Volume Injected (uL): 1.0

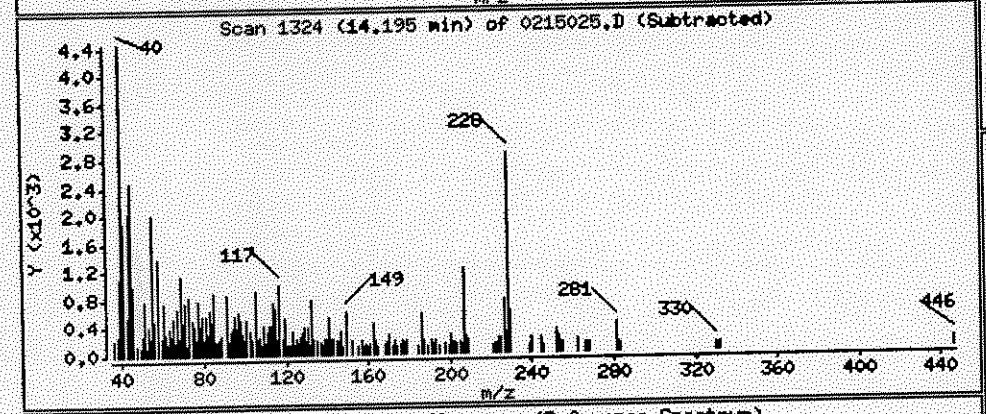
Column phase: fused silica

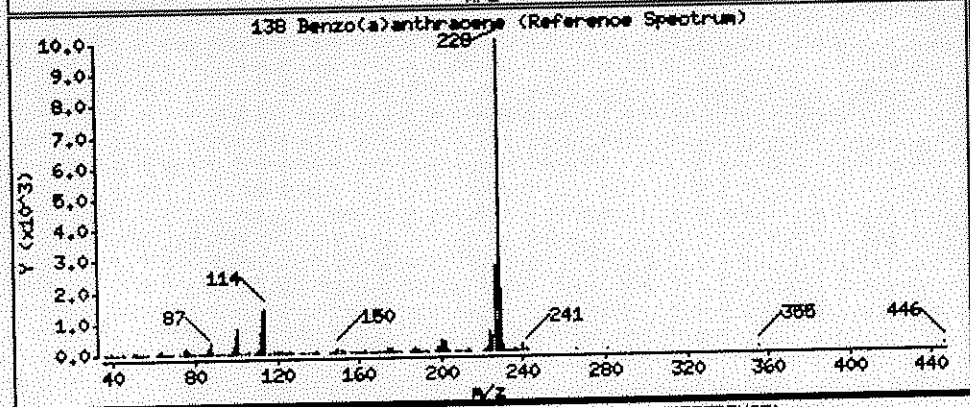
Column diameter: 0.25

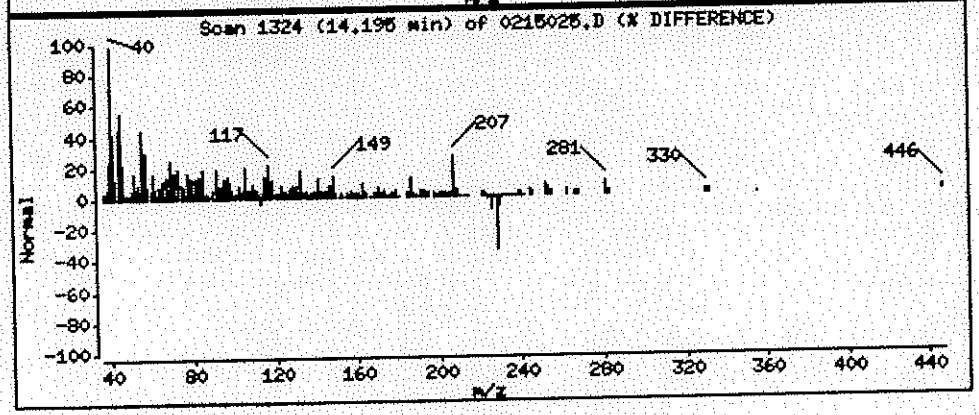
Concentration: 4.179 ug/Kg

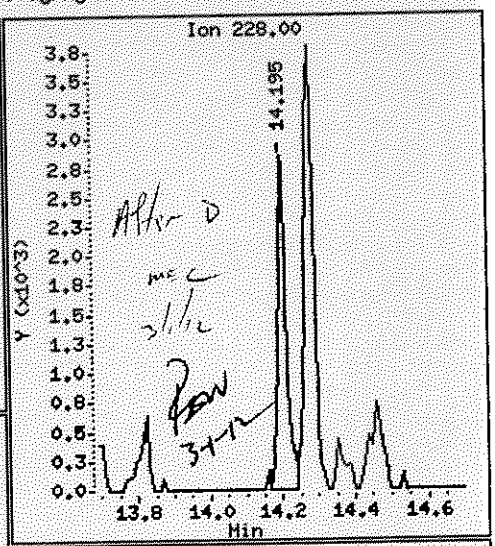
138 Benzo(a)anthracene

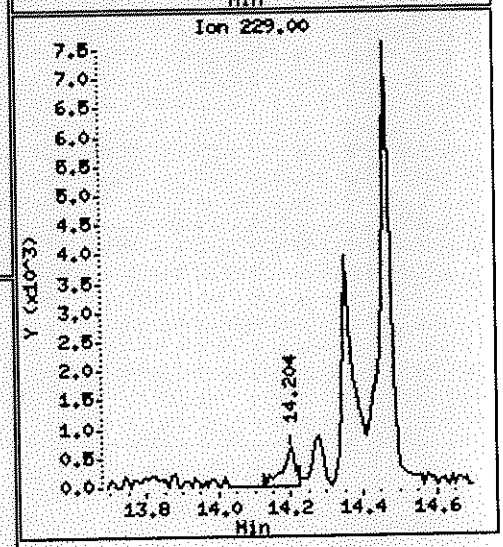












Data File: \\ELABNSH06\TARGET\chem\bna4.i\022812B4.b\0215025.D

Date : 29-FEB-2012 03:50

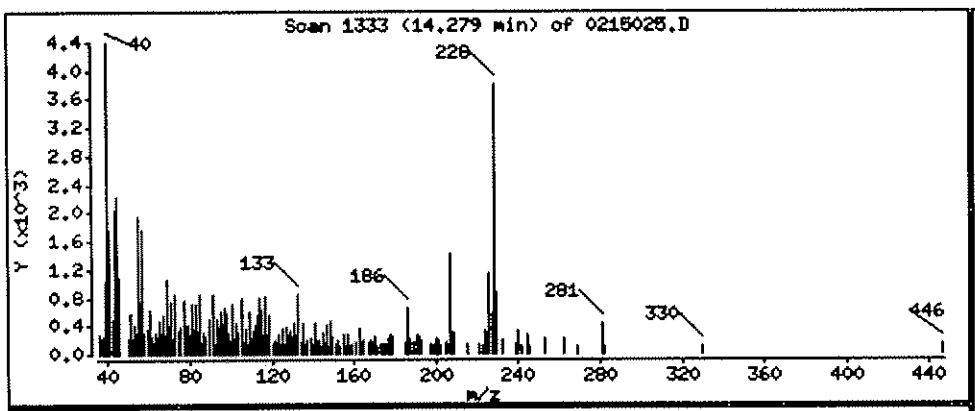
Client ID: FLC-4-P09-0204-0221 Instrument: bna4.i

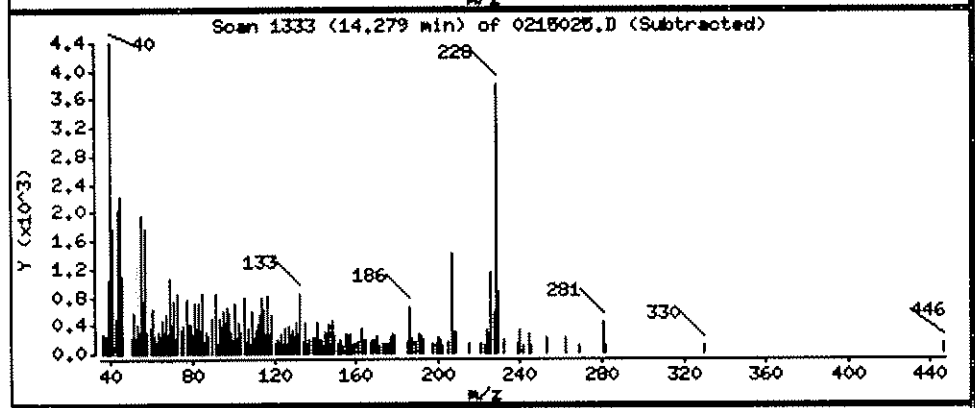
Sample Info: 1202150-25;1;15;1000;1;ug/Kg;24-FEB-2012

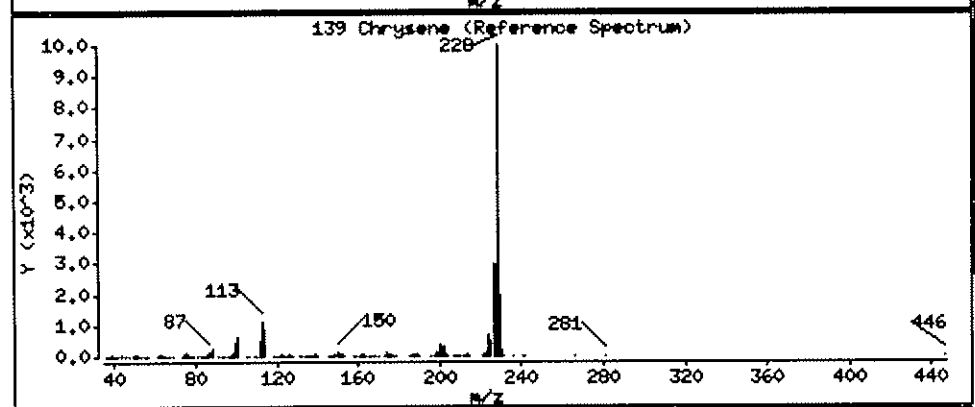
Volume Injected (uL): 1.0 Operator: MEC

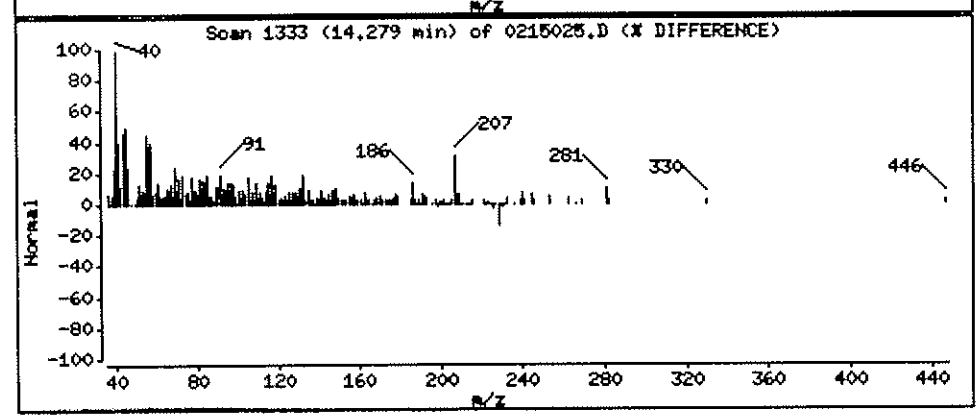
Column phase: fused silica Column diameter: 0.25

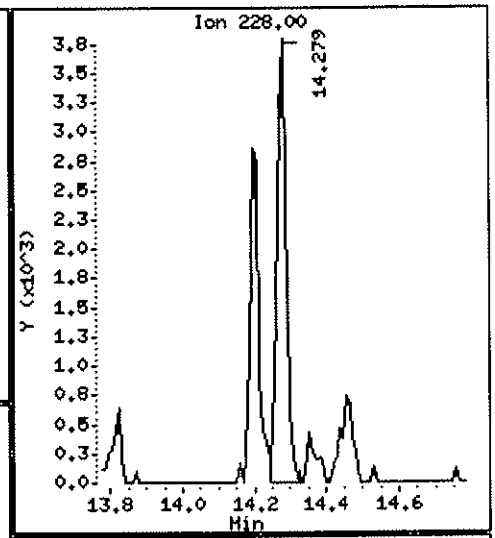
139 Chrysene Concentration: 5.913 ug/Kg

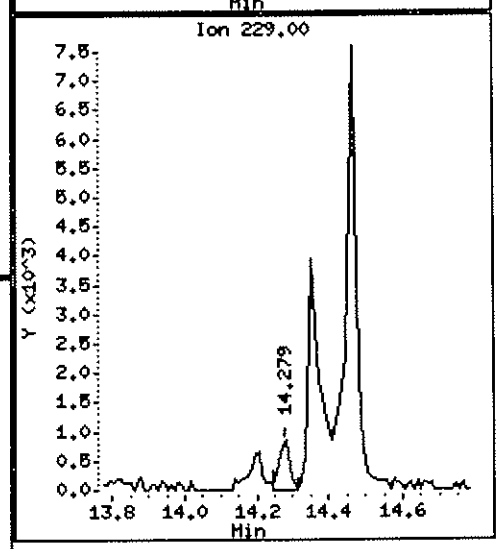






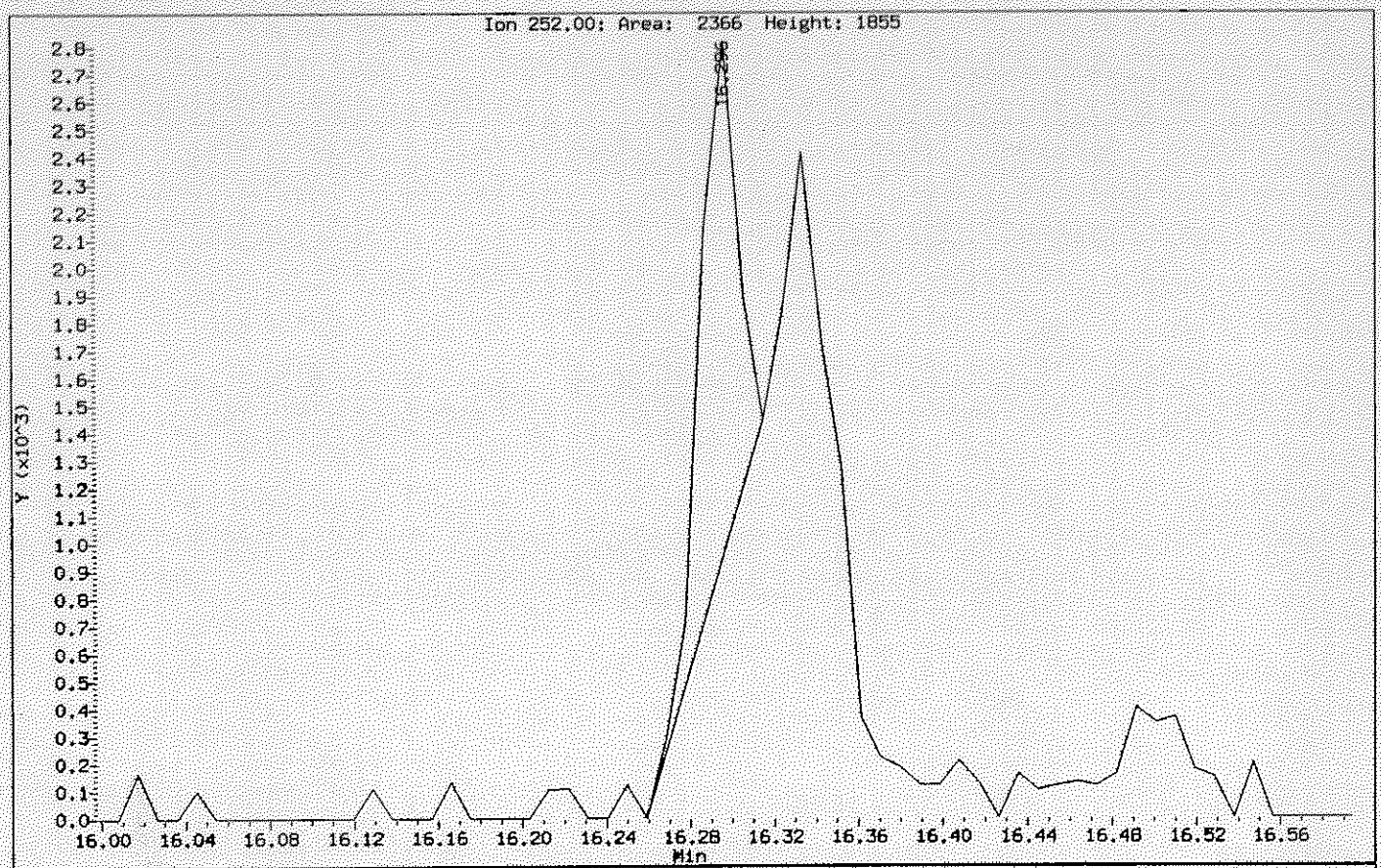


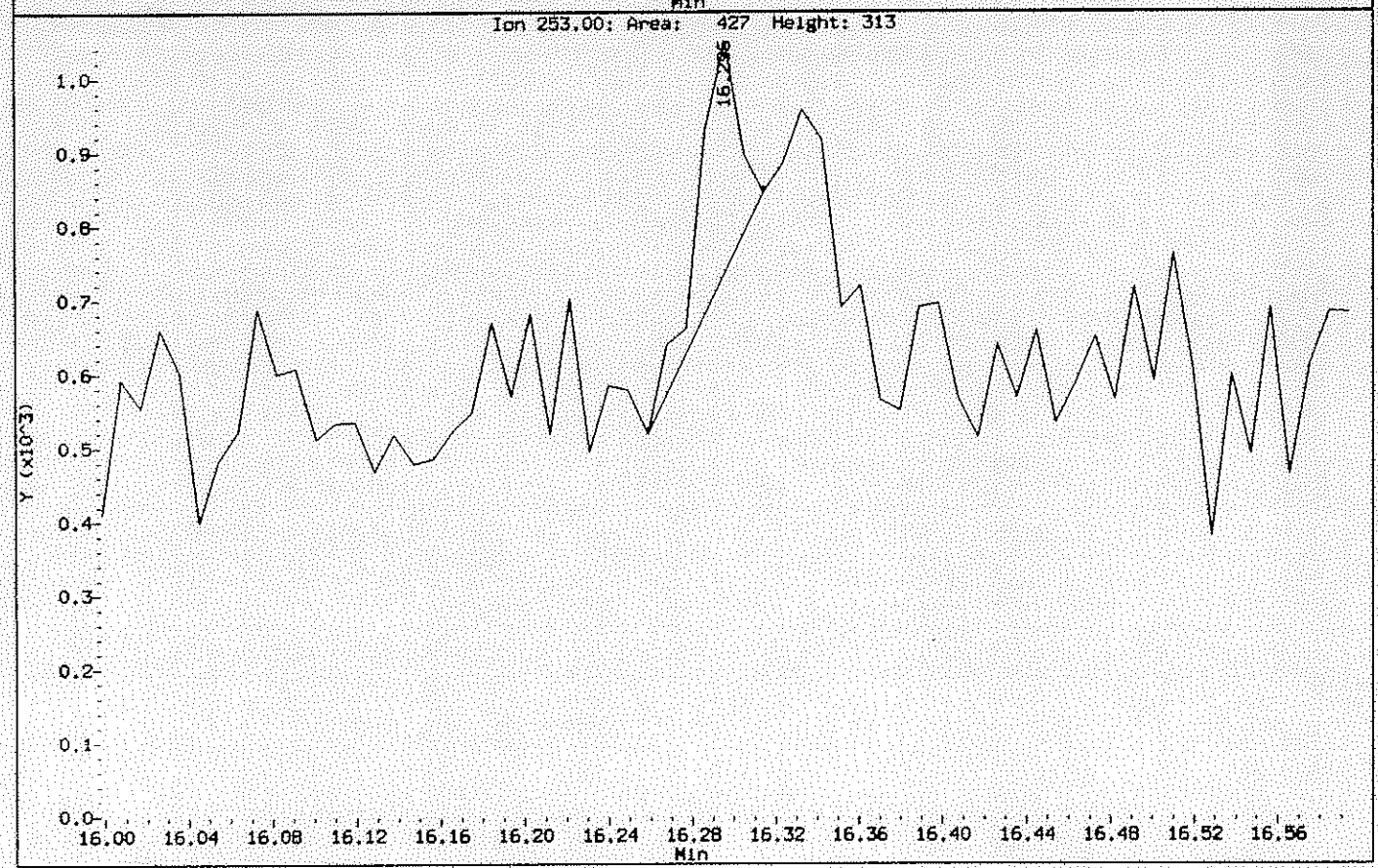




Data File: \\ELABNSHO5\TARGET\chem\bna4.i\022812B4.b\0215025.D
Injection Date: 29-FEB-2012 03:50
Instrument: bna4.i
Client Sample ID: FLC-4-P09-0204-0221

Compound: Benzo(b)fluoranthene
CAS Number: 205-99-2





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Date : 29-FEB-2012 03:50

Client ID: FLC-4-P09-0204-0221

Instrument: bna4.i

Sample Info: 1202150-25;1;15;1000;1;ug/Kg;24-FEB-2012

Volume Injected (uL): 1.0

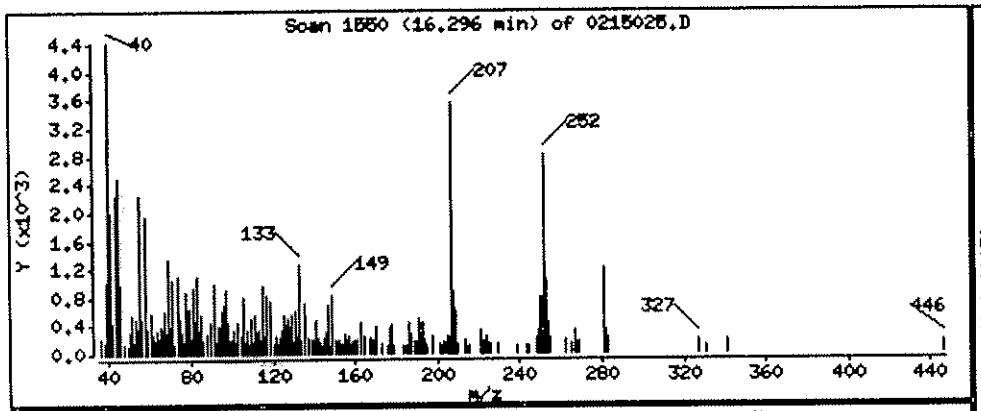
Operator: MEC

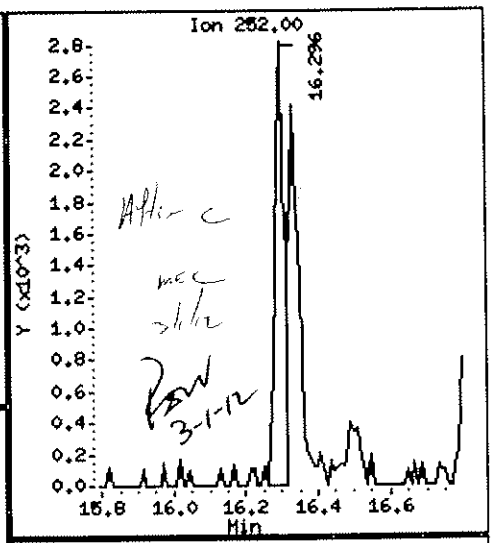
Column phase: fused silica

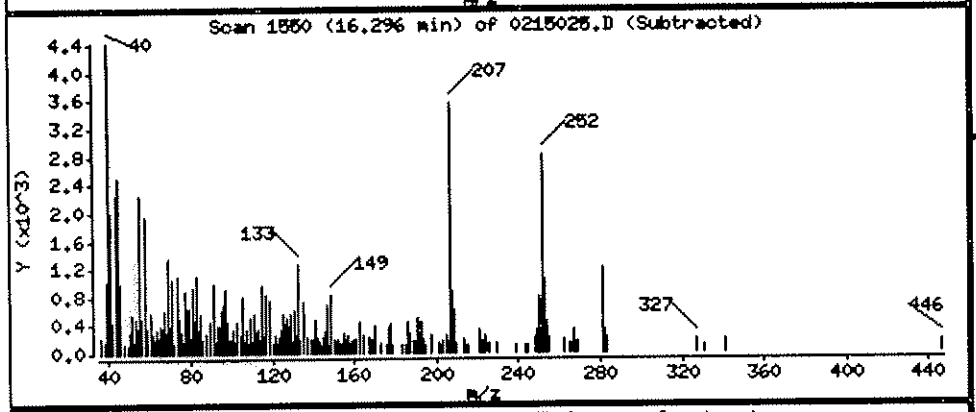
Column diameter: 0.25

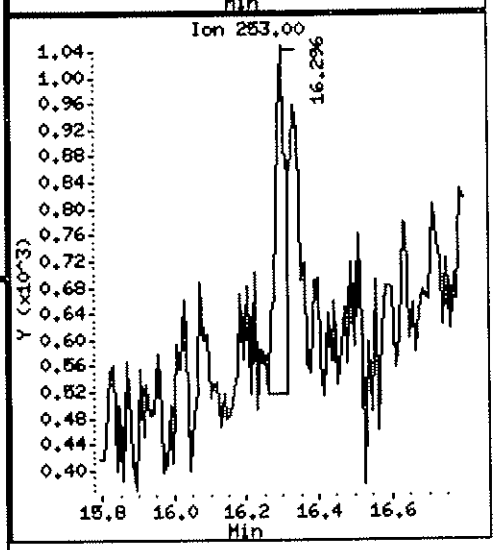
156 Benzo(b)fluoranthene

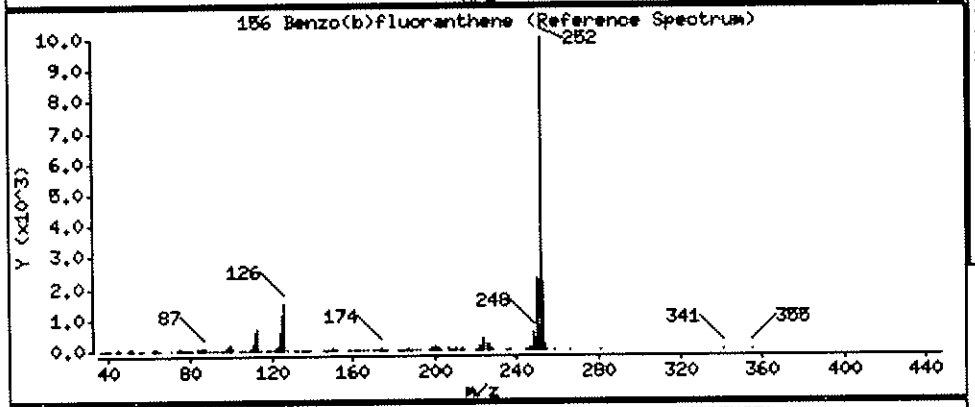
Concentration: 4.270 ug/Kg

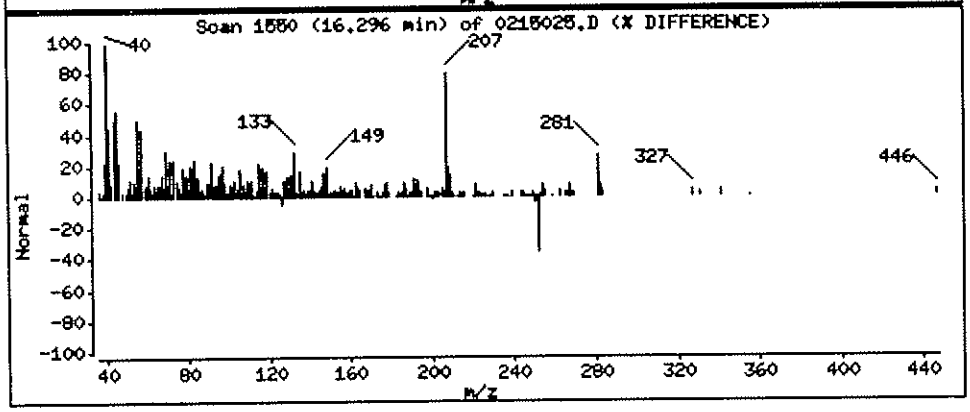












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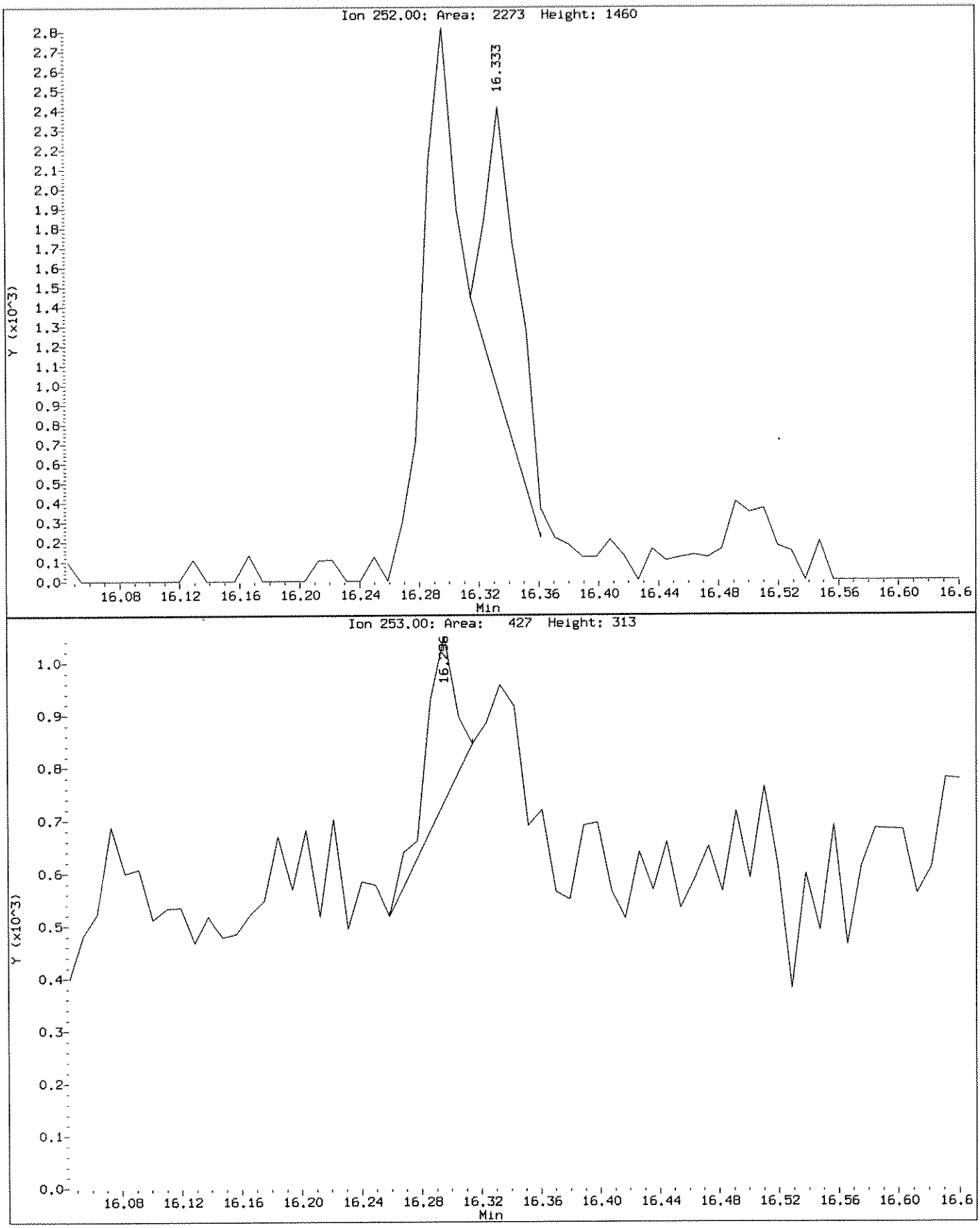
Injection Date: 29-FEB-2012 03:50
Instrument: bna4.i
Client Sample ID: FLC-4-P09-0204-0221

Compound: Benzo(k)fluoranthene
CAS Number: 207-08-9



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Date : 29-FEB-2012 03:50

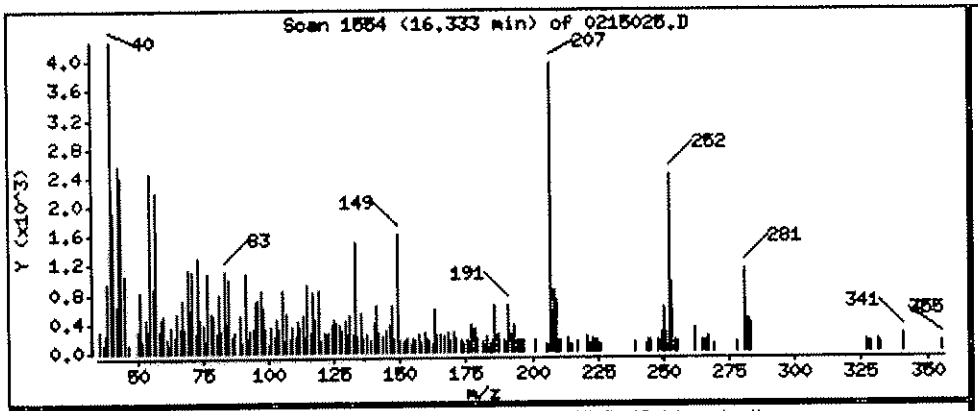
Client ID: FLC-4-P09-0204-0221 Instrument: bna4.i

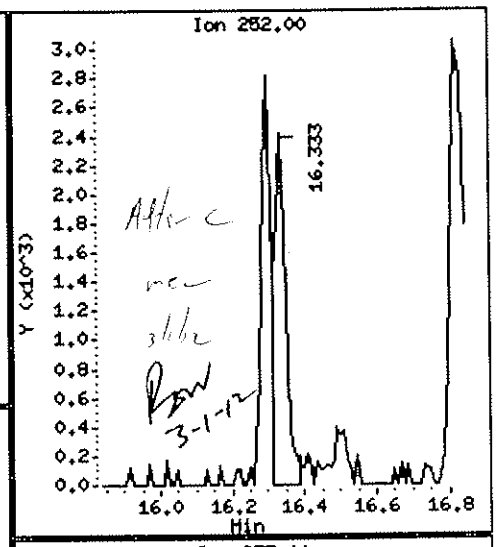
Sample Info: 1202150-25;1;15;1000;1;ug/Kg;24-FEB-2012

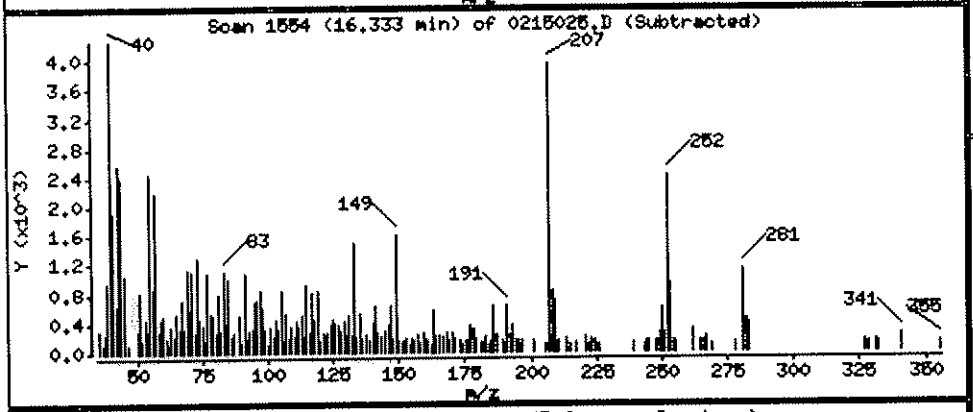
Volume Injected (uL): 1.0 Operator: MEC

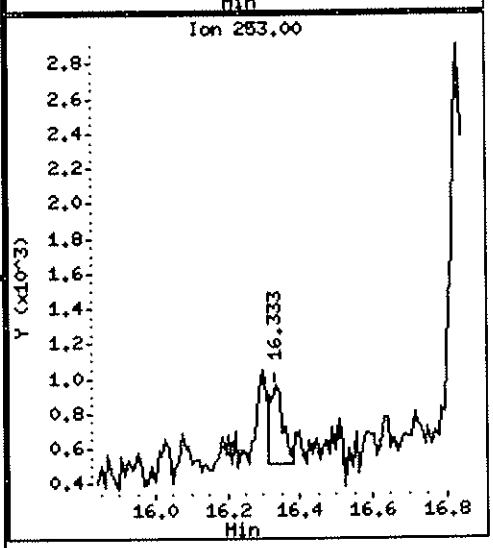
Column phase: fused silica Column diameter: 0.25

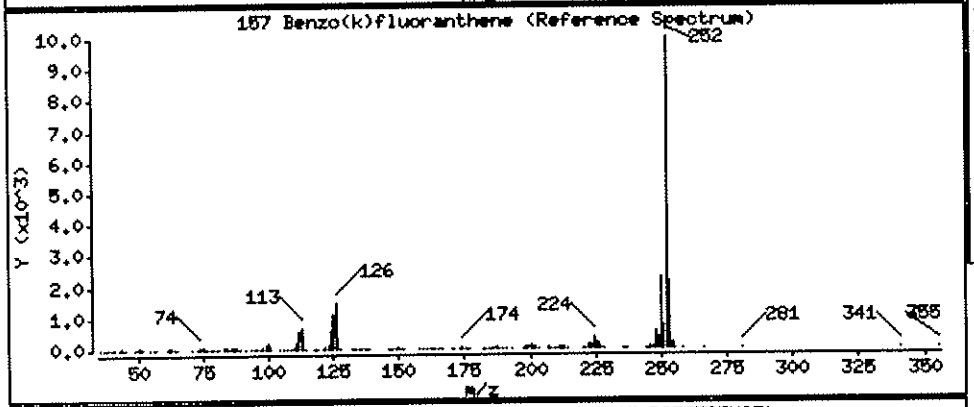
157 Benzo(k)fluoranthene Concentration: 4.467 ug/Kg

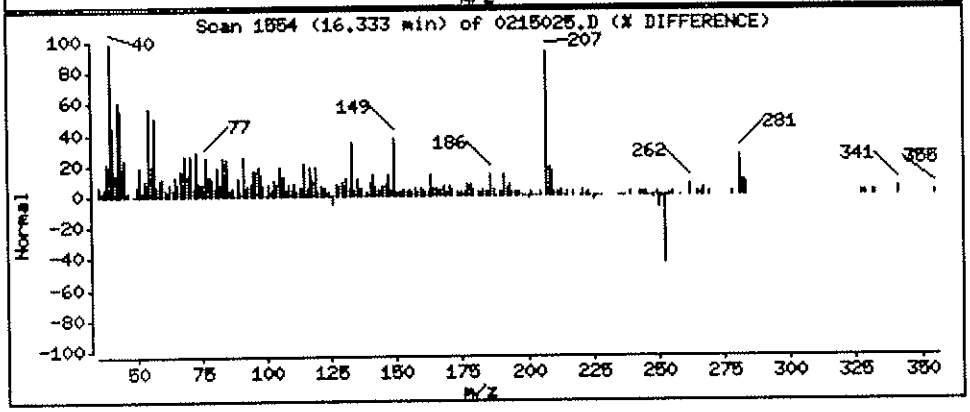












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Date : 29-FEB-2012 03:50

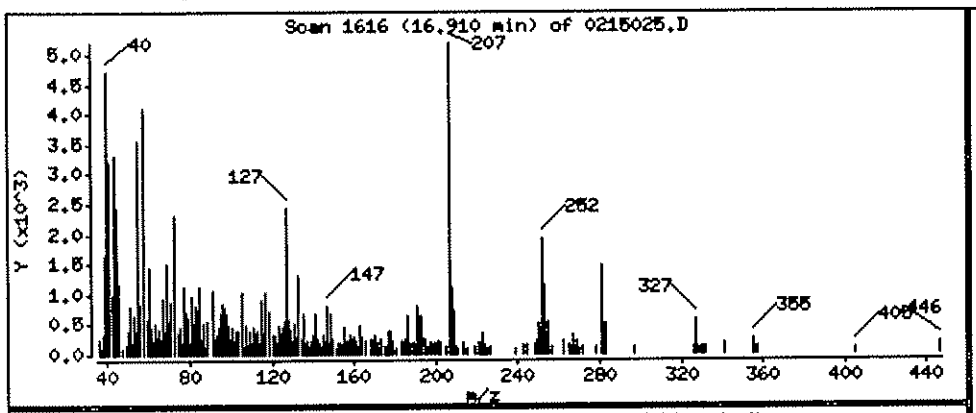
Client ID: FLC-4-P09-0204-0221 Instrument: bna4.i

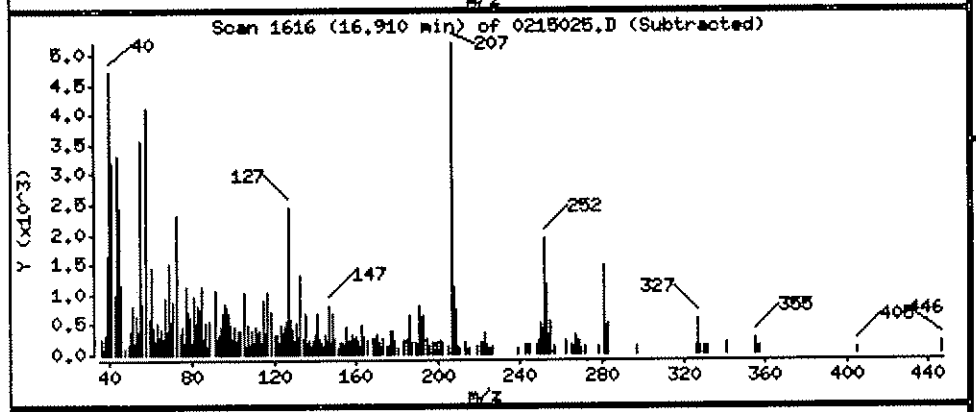
Sample Info: 1202150-25;1;15;1000;1;ug/Kg;24-FEB-2012

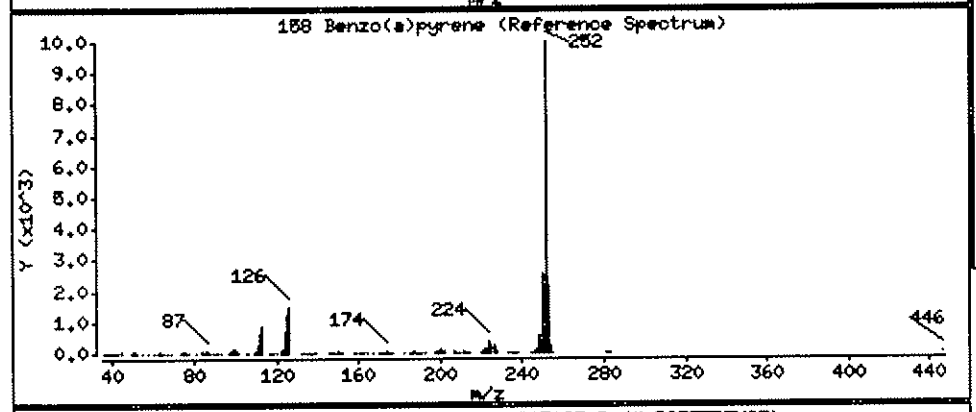
Volume Injected (uL): 1.0 Operator: MEC

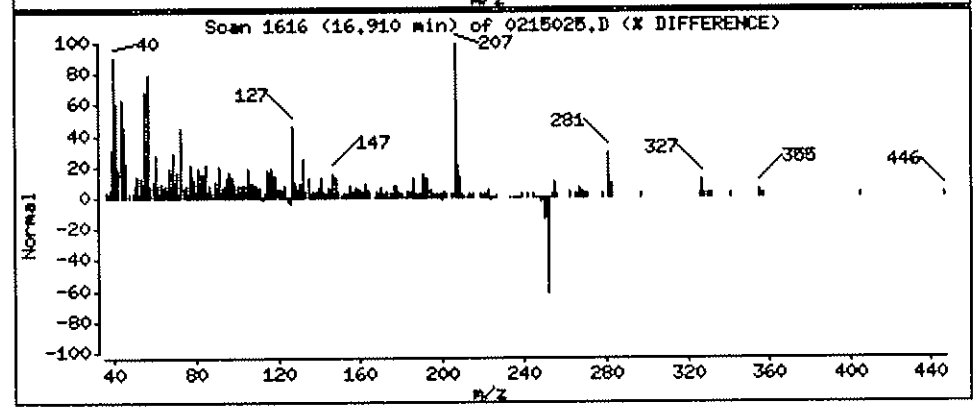
Column phase: fused silica Column diameter: 0.25

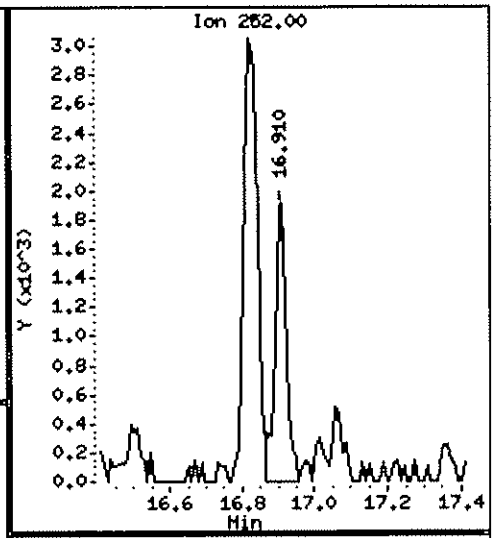
158 Benzo(a)pyrene Concentration: 4.748 ug/Kg

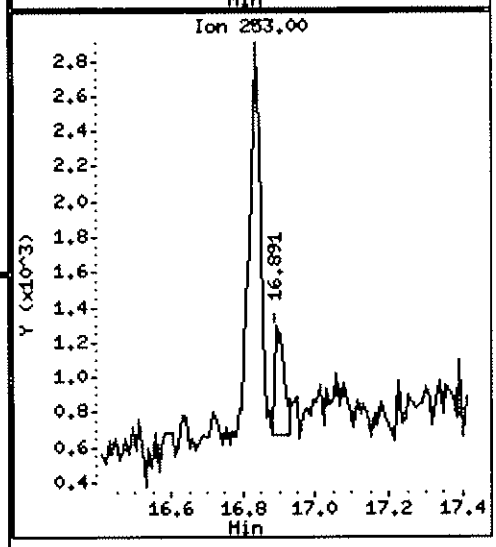












Data File: \\ELABNSH05\TARGET\chem\bna4.i\022812B4.b\0215025.D

Date : 29-FEB-2012 03:50

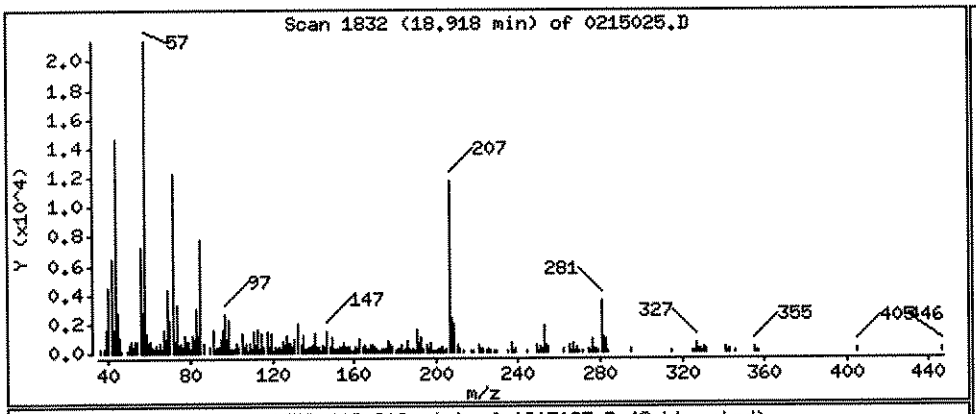
Client ID: FLC-4-P09-0204-0221 | Instrument: bna4.i

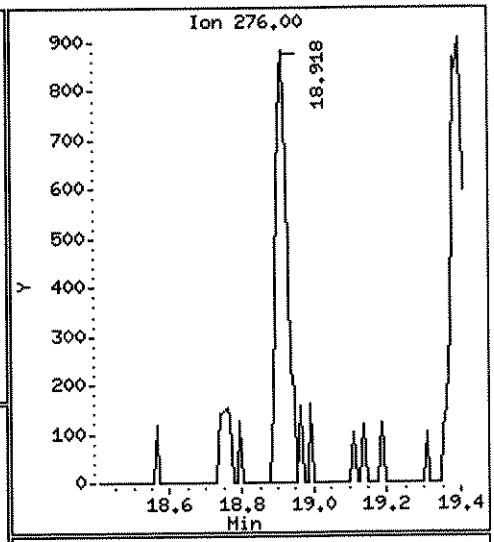
Sample Info: 1202150-25;1;15;1000;1;ug/Kg;24-FEB-2012

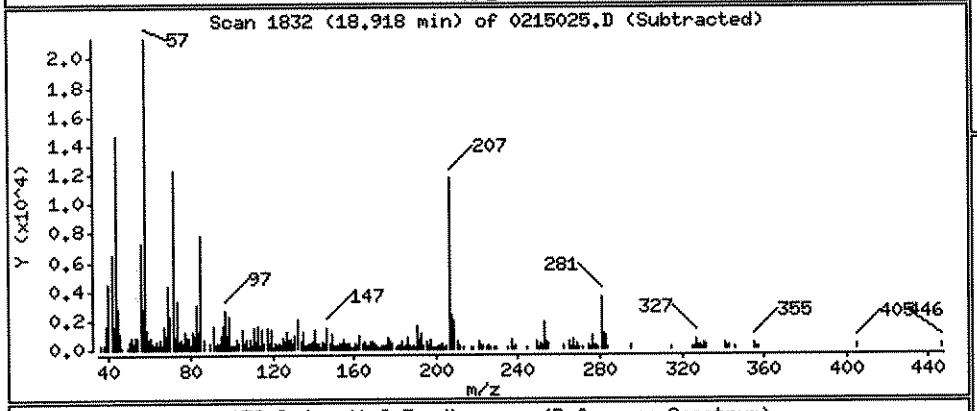
Volume Injected (uL): 1.0 | Operator: MEC

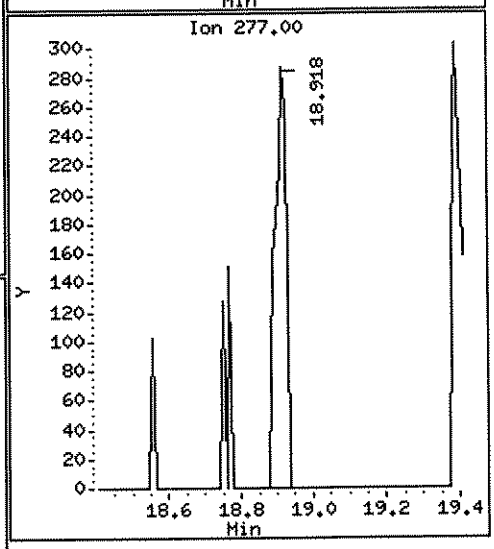
Column phase: fused silica | Column diameter: 0.25

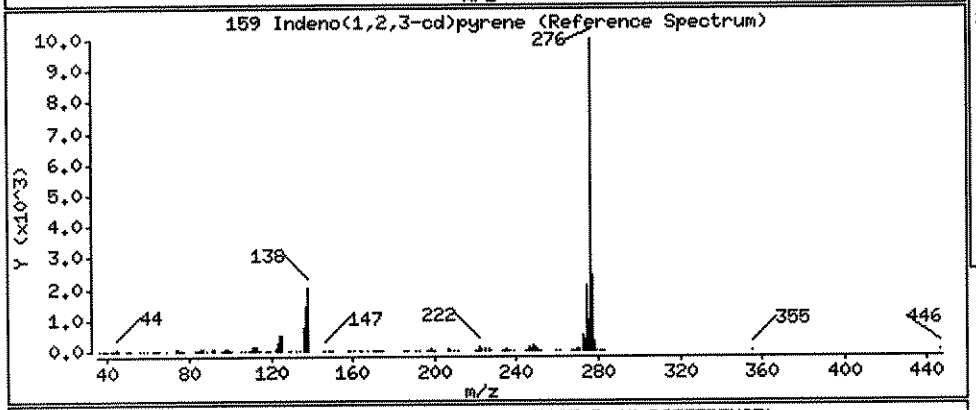
159 Indeno(1,2,3-cd)pyrene | Concentration: 2.731 ug/Kg

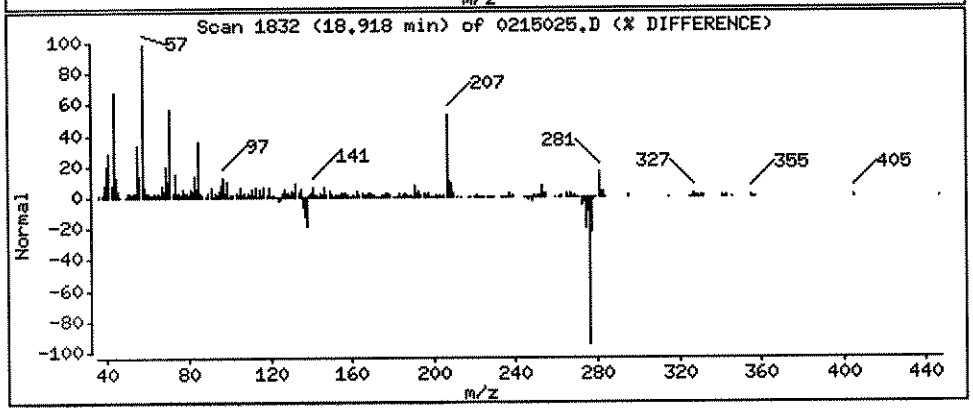












Data File: \\ELABNSH05\TARGET\chem\bna4.i\022812B4.b\0215025.D

Date : 29-FEB-2012 03:50

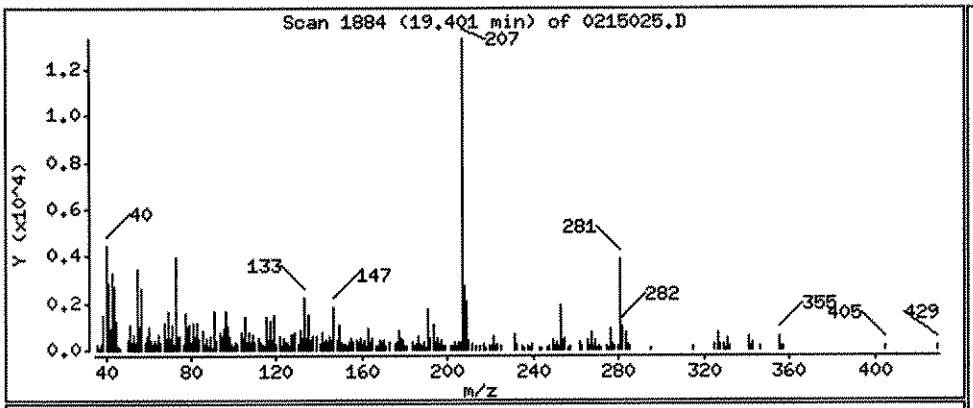
Client ID: FLC-4-P09-0204-0221 Instrument: bna4.i

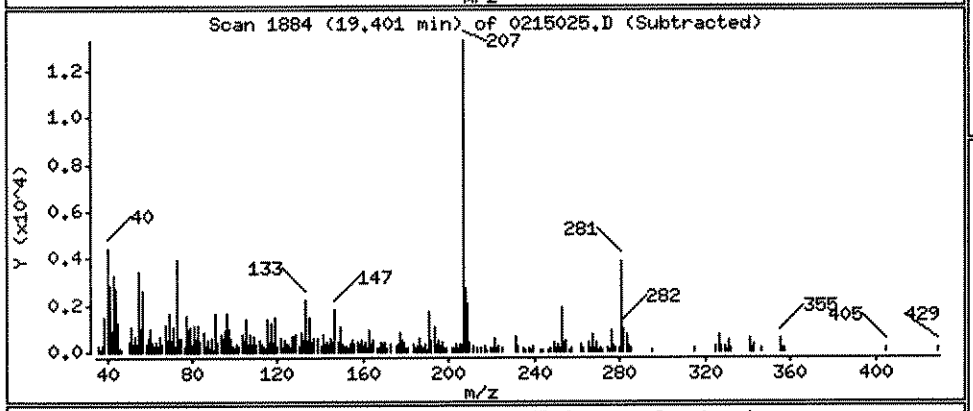
Sample Info: 1202150-25;1;15;1000;1;ug/Kg;24-FEB-2012

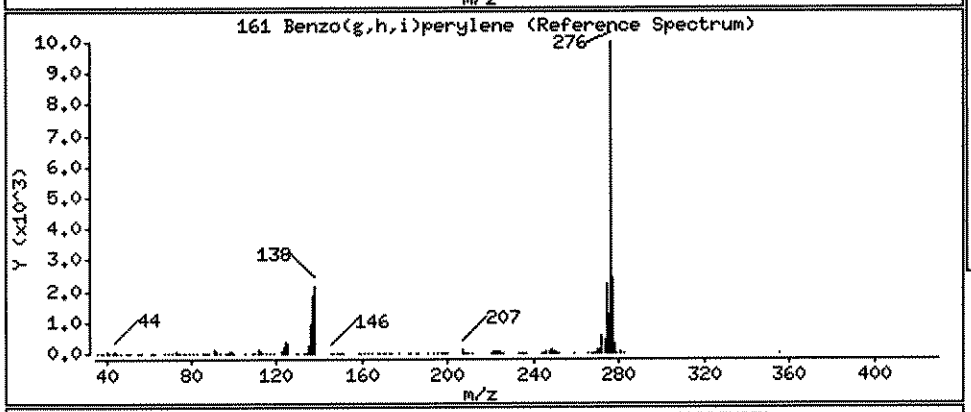
Volume Injected (uL): 1.0 Operator: MEC

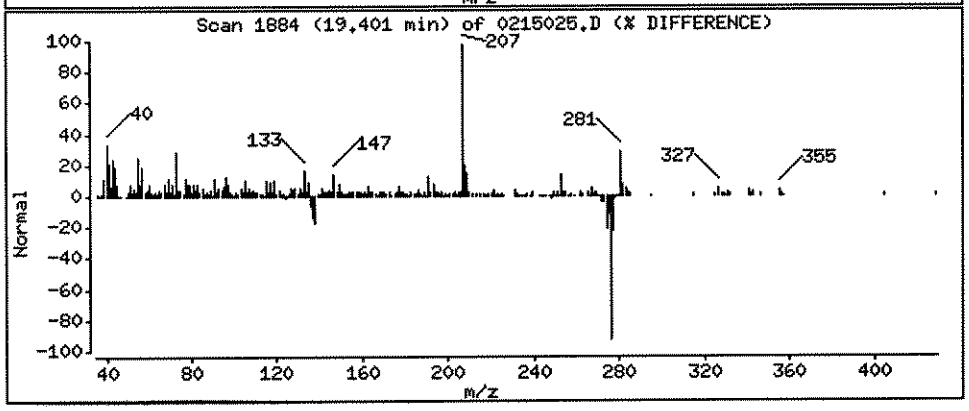
Column phase: fused silica Column diameter: 0.25

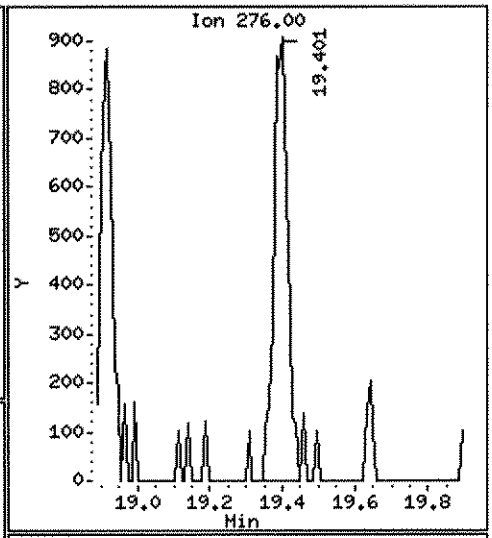
161 Benzo(g,h,i)perylene Concentration: 3.756 ug/Kg

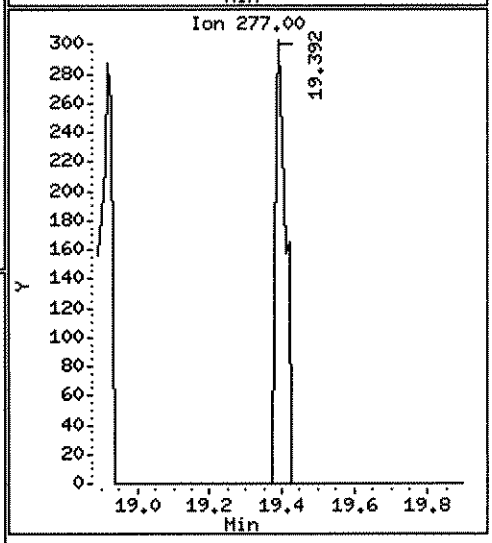












Data File: \\ELABNSH05\TARGET\chem\bna4.i\022812B4.b\0215026.D
Report Date: 01-Mar-2012 11:10

Laboratory Name

Data file : \\ELABNSH05\TARGET\chem\bna4.i\022812B4.b\0215026.D
Lab Smp Id: 1202150-26 Client Smp ID: FLC-4-DUP03-022112
Inj Date : 29-FEB-2012 04:19 MS Autotune Date: 15-FEB-2012 09:23
Operator : MEC Inst ID: bna4.i
Smp Info : 1202150-26;1;15;1000;1;ug/Kg;24-FEB-2012
Misc Info : ;0;;;;2B24004;pahlow.sub;
Comment :
Method : \\ELABNSH05\TARGET\chem\bna4.i\022812B4.b\IXBN4LOW.m
Meth Date : 01-Mar-2012 11:03 mcobb Quant Type: ISTD
Cal Date : 20-FEB-2012 16:29 Cal File: SEQ-CAL1.D
Als bottle: 24
Dil Factor: 1.00000
Integrator: HP RTE Compound Sublist: pahlow.sub
Target Version: 4.04
Processing Host: TARGET09_VM

Concentration Formula: Amt * DF * Uf * Vt*Vi/(Amt * Vi * (Solids/100))

Name	Value	Description
DF	1.000	Dilution Factor
Uf	1.000	ng unit correction factor
Vt	1000.000	Volume of final extract (uL)(1000 low, 2
Amt	15.000	Mass of initial extraction
Vi	1.000	Volume injected (uL)
Solids	100.000	Percent Solids

3-12

Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS ON-COLUMN (ng/ul)	FINAL (ug/Kg)
$ 74 2-Fluorobiphenyl	172	7.501	7.492	(0.740)	2895342	35.3206	2355
* 102 Phenanthrene-d10	188	10.132	10.132	(1.000)	101964	1.00000	
111 Phenanthrene	178	10.160	10.160	(1.003)	2413	0.02396	1.598(a)
* 154 Perylene-d12	264	17.012	17.011	(1.000)	45075	1.00000	
$ 135 Terphenyl-d14	244	12.354	12.345	(1.219)	3052677	43.3205	2888

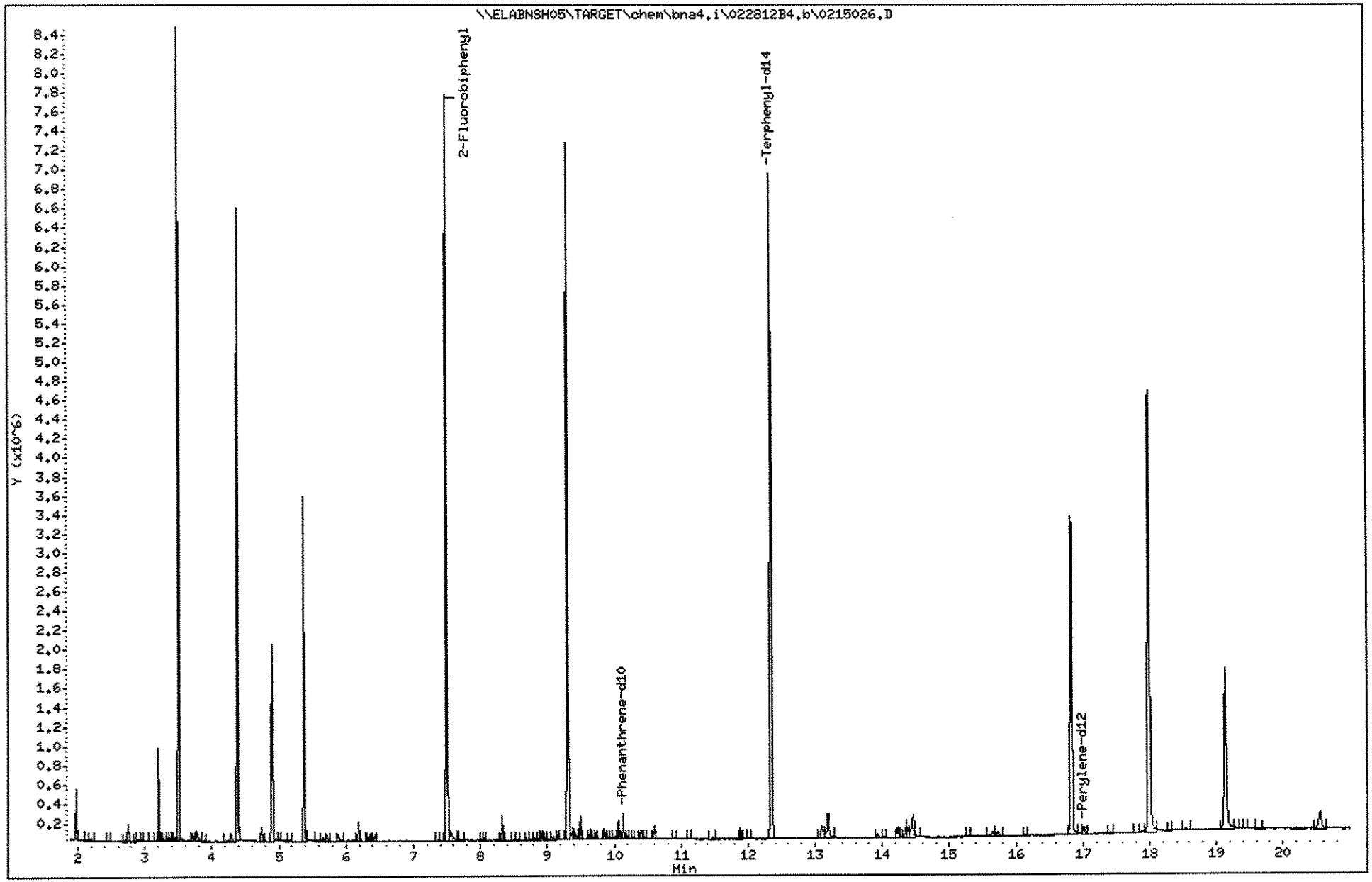
QC Flag Legend

a - Target compound detected but, quantitated amount
Below Limit Of Quantitation(BLOQ).

MEC
3/1/12

Data File: \\ELABNSH05\TARGET\chem\bna4.i\022812B4.b\0215026.D
Date : 29-FEB-2012 04:19
Client ID: FLC-4-DUP03-022112
Sample Info: 1202150-26;1;15;1000;1;ug/Kg;24-FEB-2012
Volume Injected (uL): 1.0
Column phase: fused silica

Instrument: bna4.i
Operator: MEC
Column diameter: 0.25



1202150

Data File: \\ELABNSH05\TARGET\chem\bna4.i\022812B4.b\0215026.D

Date : 29-FEB-2012 04:19

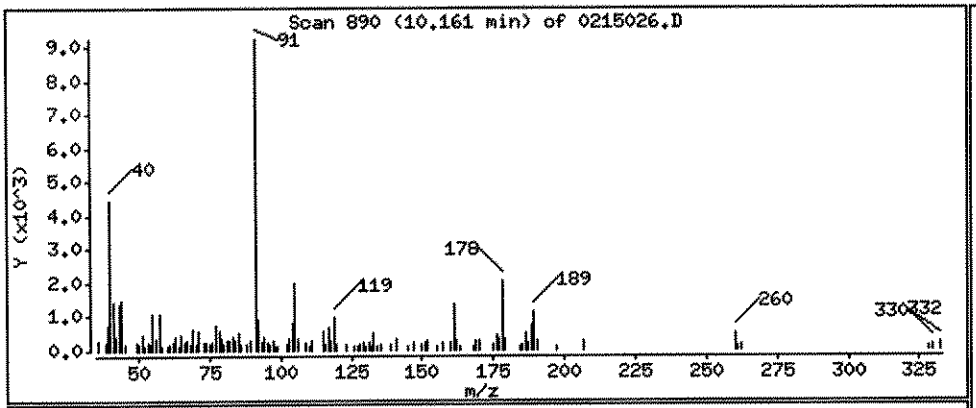
Client ID: FLC-4-DUP03-022112 Instrument: bna4.i

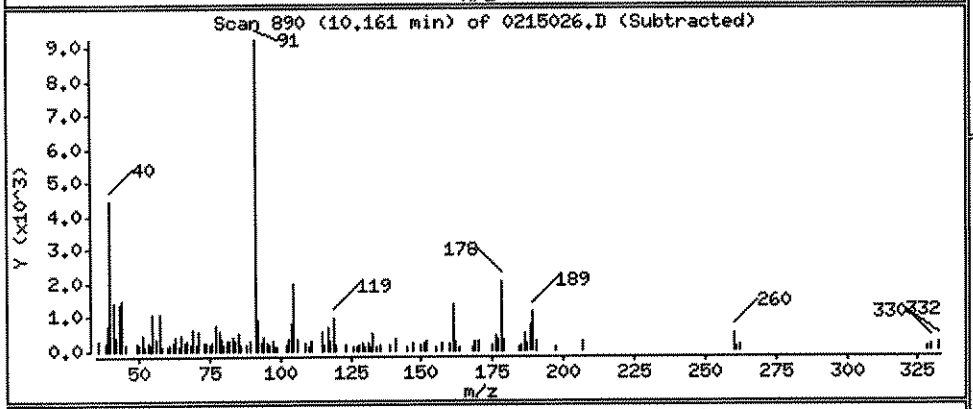
Sample Info: 1202150-26;1;15;1000;1;ug/Kg;24-FEB-2012

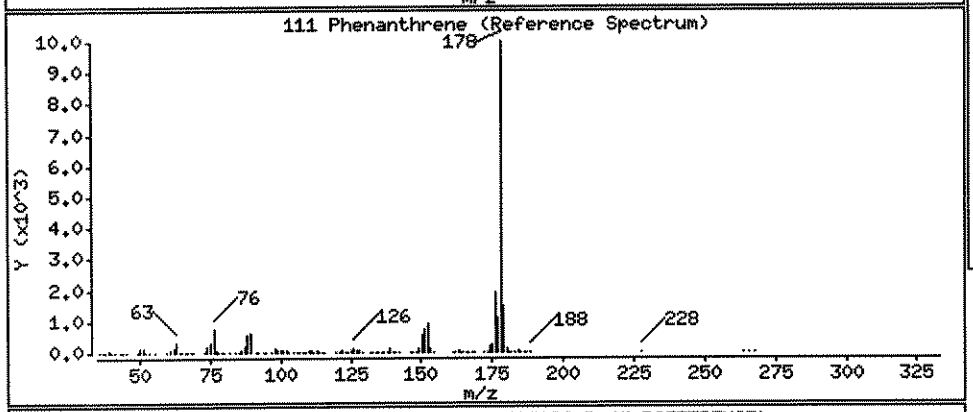
Volume Injected (uL): 1.0 Operator: MEC

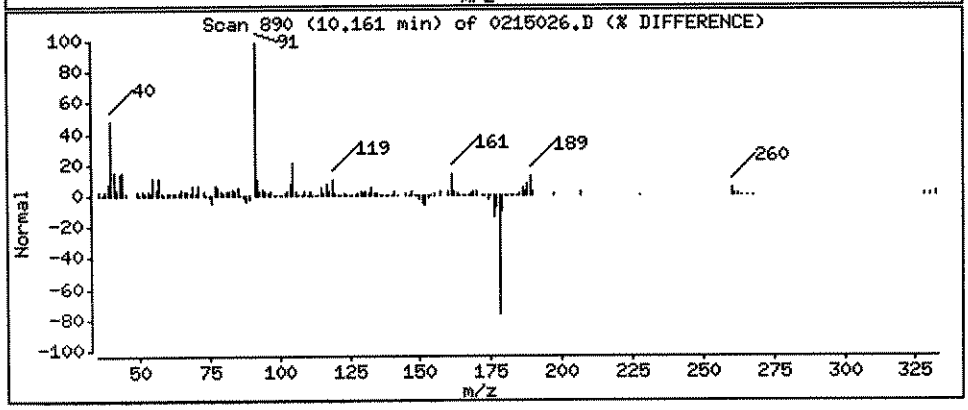
Column phase: fused silica Column diameter: 0.25

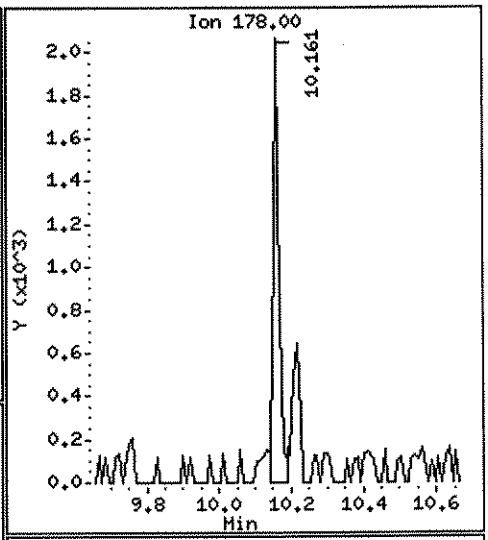
111 Phenanthrene Concentration: 1.598 ug/Kg

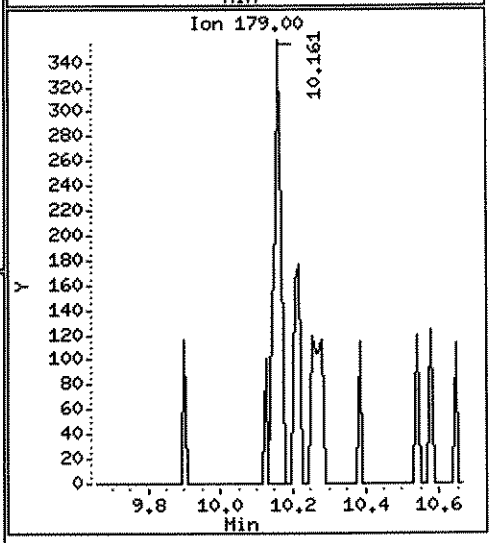












PREPARATION BENCH SHEET

2B22014

Empirical Laboratories, LLC **Printed: 3/6/2012 9:37:38AM**

Instrument:

Matrix: Solid **Prepared using: EXT - EXT_3546** **Surrogate used: 12A0323**

Lab Number	Cont ID	Analysis	Prepared	Initial (g)	Final (mL)	Spike ID	Source ID	ul Spike	ul Surrogate	PH	Extraction Comments
1202150-01	A	ZZ_SMS_PAH_8270C_3546_L	02/22/2012	15.1	1				500	NA	MS/MSD.Only if low PRO concentrations
1202150-02	A	ZZ_SMS_PAH_8270C_3546_L	02/22/2012	15.1	1				500	NA	Only if low PRO concentrations
1202150-03	A	ZZ_SMS_PAH_8270C_3546_L	02/22/2012	15.4	1				500	NA	Only if low PRO concentrations
1202150-04	A	ZZ_SMS_PAH_8270C_3546_L	02/22/2012	15.9	1				500	NA	Only if low PRO concentrations
1202150-06	A	ZZ_SMS_PAH_8270C_3546_L	02/22/2012	15.6	1				500	NA	Only if low PRO concentrations
1202150-07	A	ZZ_SMS_PAH_8270C_3546_L	02/22/2012	15.3	1				500	NA	Only if low PRO concentrations
1202150-08	A	ZZ_SMS_PAH_8270C_3546_L	02/22/2012	15.3	1				500	NA	Only if low PRO concentrations
1202150-09	A	ZZ_SMS_PAH_8270C_3546_L	02/22/2012	15.1	1				500	NA	Only if low PRO concentrations
1202150-10	A	ZZ_SMS_PAH_8270C_3546_L	02/22/2012	15.4	1				500	NA	Only if low PRO concentrations
1202150-11	A	ZZ_SMS_PAH_8270C_3546_L	02/22/2012	15.7	1				500	NA	Only if low PRO concentrations
1202150-12	A	ZZ_SMS_PAH_8270C_3546_L	02/22/2012	15.1	1				500	NA	Only if low PRO concentrations
1202150-13	A	ZZ_SMS_PAH_8270C_3546_L	02/22/2012	15.5	1				500	NA	Only if low PRO concentrations
1202150-15	A	ZZ_SMS_PAH_8270C_3546_L	02/22/2012	15.3	1				500	NA	MS/MSD.Only if low PRO concentrations
1202150-16	A	ZZ_SMS_PAH_8270C_3546_L	02/22/2012	15.8	1				500	NA	Only if low PRO concentrations
1202150-17	A	ZZ_SMS_PAH_8270C_3546_L	02/22/2012	15.9	1				500	NA	Only if low PRO concentrations
1202150-18	A	ZZ_SMS_PAH_8270C_3546_L	02/22/2012	15.2	1				500	NA	Only if low PRO concentrations
1202150-19	A	ZZ_SMS_PAH_8270C_3546_L	02/22/2012	15.4	1				500	NA	Only if low PRO concentrations
1202150-20	A	ZZ_SMS_PAH_8270C_3546_L	02/22/2012	15.2	1				500	NA	Only if low PRO concentrations
1202150-21	A	ZZ_SMS_PAH_8270C_3546_L	02/22/2012	15.1	1				500	NA	Only if low PRO concentrations
2B22014-BLK1		QC	02/22/2012	15	1			0	500	NA	
2B22014-BS1		QC	02/22/2012	15	1	12B0055		1000	500	NA	ll pah
2B22014-MS1		QC	02/22/2012	15.4	1	12B0055	1202150-01	1000	500	NA	ll pah

Spiking Witnessed By Date

Preparation Reviewed By Date

Extracts Received By Date

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1202150

PREPARATION BENCH SHEET

2B22014

Empirical Laboratories, LLC

Printed: 3/6/2012 9:37:38AM

Instrument:

Matrix: Solid **Prepared using: EXT - EXT_3546** **Surrogate used: 12A0323**

Lab Number	Cont ID	Analysis	Prepared	Initial (g)	Final (mL)	Spike ID	Source ID	ul Spike	ul Surrogate	PH	Extraction Comments
2B22014-MS2		QC	02/22/2012	15.1	1	12B0055	1202150-15	1000	500	NA	ll pah
2B22014-MSD1		QC	02/22/2012	15.6	1	12B0055	1202150-01	1000	500	NA	ll pah
2B22014-MSD2		QC	02/22/2012	15.2	1	12B0055	1202150-15	1000	500	NA	ll pah

Reagents Used:

Standard	Description
12A0665	Sodium Sulfate Anhydrous
12B0161	Methylene Chloride

Spiking Witnessed By Date

Preparation Reviewed By Date

Extracts Received By Date

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1202150

PREPARATION BENCH SHEET

2B23003

Empirical Laboratories, LLC **Printed: 3/6/2012 9:39:41AM**

Instrument:

Matrix: Water **Prepared using: EXT - EXT_3510** **Surrogate used: 12A0614**

Lab Number	Cont ID	Analysis	Prepared	Initial (mL)	Final (mL)	Spike ID	Source ID	ul Spike	ul Surrogate	PH	Extraction Comments
1202145-02	E	ZZ_SMS_PAH_8270C_3510_L	02/23/2012	1060	1				500	NA	AFCEE; OLR
1202145-02RE1	E	ZZ_SMS_PAH_8270C_3510_L	02/23/2012	1060	1				500	NA	AFCEE
1202145-03	E	ZZ_SMS_PAH_8270C_3510_L	02/23/2012	1060	1				500	NA	AFCEE
1202145-04	E	ZZ_SMS_PAH_8270C_3510_L	02/23/2012	1070	1				500	NA	AFCEE
1202147-01	O	ZZ_SMS_BNA_8270C_3510_F	02/23/2012	1020	1				500	NA	requires 3-Methlphenol/4-Methylphenol/Naphthalene
1202147-03	P	ZZ_SMS_BNA_8270C_3510_F	02/23/2012	1040	1				500	NA	requires 3-Methlphenol/4-Methylphenol/Naphthalene
1202147-05	P	ZZ_SMS_BNA_8270C_3510_F	02/23/2012	1070	1				500	NA	requires 3-Methlphenol/4-Methylphenol/Naphthalene
1202147-07	N	ZZ_SMS_BNA_8270C_3510_F	02/23/2012	1040	1				500	NA	requires 3-Methlphenol/4-Methylphenol/Naphthalene
1202150-05	A	ZZ_SMS_PAH_8270C_3510_L	02/23/2012	1080	1				500	NA	
1202150-14	B	ZZ_SMS_PAH_8270C_3510_L	02/23/2012	1080	1				500	NA	
1202153-01	N	ZZ_SMS_BNA_8270C_3510_F	02/23/2012	1040	1				500	NA	requires 3-Methlphenol/4-Methylphenol/Naphthalene
1202153-03	N	ZZ_SMS_BNA_8270C_3510_F	02/23/2012	1020	1				500	NA	requires 3-Methlphenol/4-Methylphenol/Naphthalene
1202153-05	N	ZZ_SMS_BNA_8270C_3510_F	02/23/2012	1040	1				500	NA	requires 3-Methlphenol/4-Methylphenol/Naphthalene
1202153-05RE1	N	ZZ_SMS_BNA_8270C_3510_F	02/23/2012	1040	1				500	NA	requires 3-Methlphenol/4-Methylphenol/Naphthalene
1202153-07	N	ZZ_SMS_BNA_8270C_3510_F	02/23/2012	1020	1				500	NA	requires 3-Methlphenol/4-Methylphenol/Naphthalene
1202153-09	N	ZZ_SMS_BNA_8270C_3510_F	02/23/2012	1000	1				500	NA	requires 3-Methlphenol/4-Methylphenol/Naphthalene
1202155-01	D	SMS_PAH_8270D_LOW	02/23/2012	1070	1				500	NA	select version
1202155-02	D	SMS_PAH_8270D_LOW	02/23/2012	1000	1				500	NA	select version
1202155-03	J	SMS_PAH_8270D_LOW	02/23/2012	1080	1				500	NA	MS/MSD.
1202155-03	J	ZZ_SMS_BNA_8270C_3510_F	02/23/2012	1080	1				500	NA	Added for BatchQC in: 2B23003
1202155-03	J	ZZ_SMS_PAH_8270C_3510_L	02/23/2012	1080	1				500	NA	Added for BatchQC in: 2B23003
2B23003-BLK1		QC	02/23/2012	1000	1				500	NA	

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1202150

Spiking Witnessed By Date

Preparation Reviewed By Date

Extracts Received By Date

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PREPARATION BENCH SHEET

2B23003

Empirical Laboratories, LLC **Printed: 3/6/2012 9:39:41AM**

Instrument:

Matrix: Water **Prepared using: EXT - EXT_3510** **Surrogate used: 12A0614**

Lab Number	Cont ID	Analysis	Prepared	Initial (mL)	Final (mL)	Spike ID	Source ID	ul Spike	ul Surrogate	PH	Extraction Comments
2B23003-BLK2		QC	02/23/2012	1000	1				500	NA	Added 3/1/2012 by MEC
2B23003-BS1		QC	02/23/2012	1000	1	12B0584		500	500	NA	
2B23003-BS2		QC	02/23/2012	1000	1	12B0055		1000	500	NA	
2B23003-BSD1		QC	02/23/2012	1000	1	12B0584		500	500	NA	
2B23003-BSD2		QC	02/23/2012	1000	1	12B0055		1000	500	NA	
2B23003-MS1		QC	02/23/2012	1080	1	12B0055	1202155-03	1000	500	NA	ll pah
2B23003-MSD1		QC	02/23/2012	1080	1	12B0055	1202155-03	1000	500	NA	ll pah

Reagents Used:

Standard	Description
12A0103	1:1 H2SO4/DIH2O
12A0350	10N NaOH for Extractions
12A0665	Sodium Sulfate Anhydrous
12B0161	Methylene Chloride

1202150

Spiking Witnessed By Date

Preparation Reviewed By Date

Extracts Received By Date

PREPARATION BENCH SHEET

2B24004

Empirical Laboratories, LLC

Printed: 3/6/2012 9:41:54AM

Instrument:

Matrix: Solid **Prepared using: EXT - EXT_3546** **Surrogate used: 12A0323**

Lab Number	Cont ID	Analysis	Prepared	Initial (g)	Final (mL)	Spike ID	Source ID	ul Spike	ul Surrogate	PH	Extraction Comments
1202150-22	A	ZZ_SMS_PAH_8270C_3546_L	02/24/2012	15.5	1				500	NA	Only if low PRO concentrations
1202150-23	A	ZZ_SMS_PAH_8270C_3546_L	02/24/2012	15.8	1				500	NA	Only if low PRO concentrations
1202150-24	A	ZZ_SMS_PAH_8270C_3546_L	02/24/2012	15.4	1				500	NA	Only if low PRO concentrations
1202150-25	A	ZZ_SMS_PAH_8270C_3546_L	02/24/2012	15.7	1				500	NA	Only if low PRO concentrations
1202150-26	A	ZZ_SMS_PAH_8270C_3546_L	02/24/2012	15.6	1				500	NA	Only if low PRO concentrations
2B24004-BLK1		QC	02/24/2012	15	1				500	NA	
2B24004-BLK2		QC	02/24/2012	15	1				500	NA	Added 3/1/2012 by MEC
2B24004-BS1		QC	02/24/2012	15	1	12B0675		1000	500	NA	ll pah
2B24004-BS2		QC	02/24/2012	15	1	12B0675		1000	500	NA	Added 3/1/2012 by MEC
2B24004-MS1		QC	02/24/2012	15.7	1	12B0675	1202150-22	1000	500	NA	ll pah
2B24004-MSD1		QC	02/24/2012	15.7	1	12B0675	1202150-22	1000	500	NA	ll pah

Reagents Used:

Standard	Description
12A0665	Sodium Sulfate Anhydrous
12B0161	Methylene Chloride

Spiking Witnessed By Date

Preparation Reviewed By Date

Extracts Received By Date

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1202150